



Checklist of newly-vouchered annelid taxa from the Clarion-Clipperton Zone, central Pacific Ocean, based on morphology and genetic delimitation

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Abstract

Background

We present a checklist of annelids from recent United Kingdom Seabed Resources (UKSR) expeditions (Abyssal Baseline - ABYSSLINE project) to the eastern abyssal Pacific Clarion-Clipperton Zone (CCZ) polymetallic nodule fields, based on DNA species delimitation, including imagery of voucher specimens, Darwin Core (DwC) data and links to vouchered specimen material and new GenBank sequence records. This paper includes genetic and imagery data for 129 species of annelids from 339 records and is restricted to

material that is, in general, in too poor a condition to describe formally at this time, but likely contains many species new to science. We make these data available both to aid future taxonomic studies in the CCZ that will be able to link back to these genetic data and specimens and to better underpin ongoing ecological studies of potential deep-sea mining impacts using the principles of FAIR (Findable, Accessible, Interoperable, Reusable) data and specimens that will be available for all.

New information

We include genetic, imagery and all associated metadata in Darwin Core format for 129 species of annelids from the Clarion-Clipperton Zone, eastern abyssal Pacific, with 339 records.

Keywords

taxonomy, DNA barcoding, biodiversity, conservation, deep-sea mining, abyssal Pacific, environmental impact

Introduction

We present a checklist of annelid fauna from recent UKSR expeditions (ABYSSLINE project) to the CCZ the equatorial abyssal Pacific, based on DNA species delimitation, including imagery of voucher specimens, Darwin Core data (DwC) and links to vouchered specimen material and new GenBank sequence records. This is a region undergoing significant exploration for mineral resources in the form of polymetallic nodules at the seafloor (Hein et al. 2013) and, as such, future environmental monitoring of these areas will require access to information on the biodiversity of animals at the seafloor, in particular based on sound taxonomic sources (Glover et al. 2018, Rabone et al. 2023a, Rabone et al. 2023b).

Surveying of this region over the the past 20 years resulted in a large collection of often very small, morphologically sub-optimally preserved and difficult to identify annelids, despite the best efforts at collecting animals directly from samples at sea using cold-chain protocols (Glover et al. 2015). Typically, the specimens can be identified to family or genus at best. Although good quality DNA sequences were obtained in most cases, there are few genetic matches to sequences available on public databases (Suppl. material 1), most being from other studies in the CCZ (Janssen et al. 2015, Janssen et al. 2019, Bonifácio and Menot 2019, Bonifacio et al. 2020, Bonifácio et al. 2021) or abyssal Atlantic (Boggemann 2009, Boggemann 2016). Based on detailed taxonomic studies that also incorporated molecular data (e.g. Wiklund et al. 2019, Bonifácio and Menot 2019, Neal et al. 2022a, Neal et al. 2022b, Bonifácio et al. 2021), over 80% of the CCZ-collected annelids are likely new to science (Rabone et al. 2023b). To date, publications from the areas targeted in this study have yielded 60 annelid species from 327 specimen records, of

which only 18 species have been formalised as new (Wiklund et al. 2019, Drennan et al. 2021, Neal et al. 2022a, Neal et al. 2022b). However, we are left with a problem in that many specimens are in sub-optimal morphological condition and unable, therefore, to be formally described. Therefore, in order to ensure that this material is accessible and useful as more comparative material is recovered in future surveys and that the DNA sequences obtained are linked transparently to openly-available molecular tissue/DNA and specimen vouchers, we are making these data and materials available in the form of this checklist paper. This has two major advantages: firstly, it enables future taxonomic work with better materials to use and to link to these data and potentially describe more of these specimens; secondly, it provides openly available data on the actual species hypotheses used to support ecological papers describing the biodiversity of the CCZ (Rabone et al. 2023b), which clearly suffer from a lack of quality control in the specimen identifications available, as has been recently acknowledged (Bianchi and Gonçalves 2021, Washburn et al. 2021). This checklist also provides supporting data to Stewart et al. (2023) describing the biodiversity and connectivity of annelids across the entire eastern CCZ region.

This paper includes a checklist of 129 annelid species, with 339 records from 18 polychaete families and four species of Sipuncula. Excluded from this study are several annelid families which are common in the CCZ, but are either ones that have already been studied (Wiklund et al. 2019, Drennan et al. 2021, Neal et al. 2022a, Neal et al. 2022b) or are currently in preparation in separate detailed taxonomic papers (e.g. order Phyllodocida and families Acrociiridae and Serpulidae).

Materials and methods

Sampling

The first UKSR ABYSSLINE cruise (AB01), sampling the UK-1 exploration contract area, took place in October 2013 aboard the RV *Melville* and the second cruise (AB02), sampling the UK-1 and OMS-1 (Ocean Minerals Singapore) exploration contract areas and one Area of Particular Environmental Interest (APEI), APEI-6, took place in February-March 2015 onboard RV *Thomas G. Thompson*. Sampling locations are as indicated in Fig. 1.

A comprehensive description of our methods is provided in Glover et al. (2015). In summary, deep-sea benthic specimens from the targeted CCZ areas were collected using a range of oceanographic sampling gear including box core, epibenthic sledge (EBS), ROV and multiple core. Geographic data from sampling activities were recorded on a central GIS database. Live-sorting of specimen samples was carried out aboard both vessels in a 'cold-chain' pipeline, in which material was constantly maintained in chilled, filtered seawater held at 2–4°C. Specimens were preliminarily identified at sea and imaged live using stereomicroscopes with attached digital cameras. Only annelid specimens with a visible head end were counted and included in taxonomic and biodiversity analyses. The specimens were then stored in individual microtube vials containing an aqueous solution of 80% non-denatured ethanol, numbered and barcoded into a database and kept chilled until return to the Natural History Museum (NHM), London, UK.

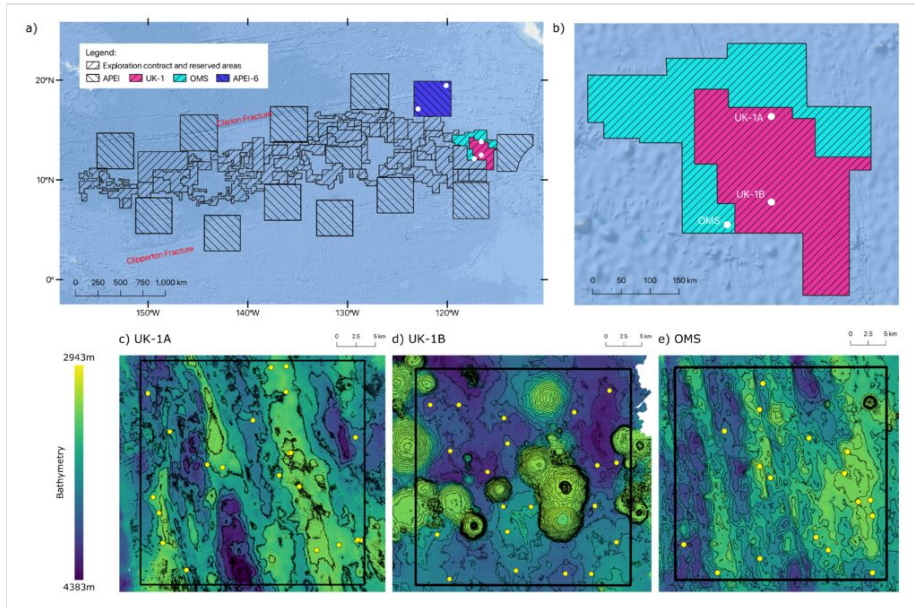


Figure 1. [doi](#)

Map of ABYSSLINE sampling locations used in this study. a) The Clarion-Clipperton Zone, central Pacific Ocean, with contract areas and Areas of Particular Environmental Interest highlighted; b) UK-1 and OMS-1 sampling locations used in this study; c-e) Bathymetric data for sites in UK-1 and OMS-1 claim areas, with yellow circles showing sampling locations.

Laboratory Work

In the laboratory, specimens were re-examined using stereomicroscopes, identified to the best possible taxonomic level and a small tissue sample was taken for DNA extraction. In most of the specimens in this study, the material was too poor or degraded to make species-level identifications.

Extraction of DNA was done with DNeasy Blood and Tissue Kit (Qiagen) using a Hamilton Microlab STAR Robotic Workstation. About 450 bp of 16S and 650 bp of cytochrome c oxidase subunit I (COI) were amplified using primers listed in Table 2. PCR mixtures contained 1 μ l of each primer (10 μ M), 2 μ l template DNA and 21 μ l of Red Taq DNA Polymerase 1.1X MasterMix (VWR) in a mixture of total 25 μ l. The PCR amplification profile consisted of initial denaturation at 95°C for 5 min, 35 cycles of denaturation at 94°C for 45 s, annealing at 55°C for 45 s, extension at 72°C for 2 min and a final extension at 72°C for 10 min. PCR products were purified using Millipore Multiscreen 96-well PCR Purification System and sequencing was performed on an ABI 3730XL DNA Analyser (Applied Biosystems) at NHM Sequencing Facility, using the same primers as in the PCR reactions (Table 2). Overlapping sequence fragments were merged into consensus sequences using Geneious (Kearse et al. 2012) and aligned using MAFFT (Kato 2002) for 16S and MUSCLE (Edgar 2004) for COI.

Table 1.

List of species included in this study, including the number of records per species.

Family/Order	Species	# Records
Ampharetidae	Ampharetidae sp. (NHM_015)	2
	Ampharetidae sp. (NHM_044)	3
	Ampharetidae sp. (NHM_062)	2
	Ampharetidae sp. (NHM_1082)	1
	Ampharetidae sp. (NHM_1161)	1
	Ampharetidae sp. (NHM_1338)	3
	Ampharetidae sp. (NHM_1578)	2
	Ampharetidae sp. (NHM_1599)	2
	Ampharetidae sp. (NHM_163)	3
	Ampharetidae sp. (NHM_265)	1
	Ampharetidae sp. (NHM_292)	4
	Ampharetidae sp. (NHM_774)	1
	Ampharetidae sp. (NHM_789)	4
Chaetopteridae	Chaetopteridae sp. (NHM_331)	3
Chrysopetalidae	Chrysopetalidae sp. NHM (1303)	2
	Chrysopetalidae sp. (NHM_1550)	1
	Chrysopetalidae sp. (NHM_2026)	1
	Chrysopetalidae sp. (NHM_410)	1
	Chrysopetalidae sp. (NHM_748A)	1
Cirratulidae	Cirratulidae sp. (NHM_172)	4
	Cirratulidae sp. (NHM_1001)	1
	Cirratulidae sp. (NHM_1235)	3
	Cirratulidae sp. (NHM_1429)	1
	Cirratulidae sp. (NHM_1518)	1
	Cirratulidae sp. (NHM_165)	1
	Cirratulidae sp. (NHM_2093)	1
	Cirratulidae sp. (NHM_2163)	4
	Cirratulidae sp. (NHM_269)	4

Family/Order	Species	# Records
	Cirratulidae sp. (NHM_340)	5
	Cirratulidae sp. (NHM_530)	3
	Cirratulidae sp. (NHM_734)	1
	Cirratulidae sp. (NHM_904)	2
	Cirratulidae sp. (NHM_915G)	4
	Cirratulidae sp. (NHM_945C)	1
Fiabelligeridae	Fiabelligeridae sp. (NHM_045)	3
	Fiabelligeridae sp. (NHM_1274)	2
	Fiabelligeridae sp. (NHM_1313)	3
	Fiabelligeridae sp. (NHM_1638)	2
	Fiabelligeridae sp. (NHM_2124)	1
	Fiabelligeridae sp. (NHM_555)	1
	Fiabelligeridae sp. (NHM_630A)	1
	Fiabelligeridae sp. (NHM_738)	3
	Fiabelligeridae sp. (NHM_955)	7
Glyceridae	Glyceridae sp. (NHM_1242)	3
	Glyceridae sp. (NHM_207)	13
	Glyceridae sp. (NHM_2089)	2
Goniadidae	Goniadidae sp. (NHM_1512)	2
Lacydoniidae	Lacydoniidae sp. (NHM_1355C)	1
	Lacydoniidae sp. (NHM_1797D)	1
	Lacydoniidae sp. (NHM_898)	1
Magelonidae	Magelonidae sp. (NHM_1340)	2
Maldanidae	Maldanidae sp. (NHM_026)	5
	Maldanidae sp. (NHM_1170)	1
	Maldanidae sp. (NHM_1178)	2
	Maldanidae sp. (NHM_836)	5
	Maldanidae sp. (NHM_900)	1
Onuphidae	Onuphidae sp. (NHM_1010)	2
	Onuphidae sp. (NHM_2430)	1

Family/Order	Species	# Records
Orbiniidae	Orbiniidae sp. (NHM_050)	4
	Orbiniidae sp. (NHM_102)	4
	Orbiniidae sp. (NHM_1947G)	1
	Orbiniidae sp. (NHM_264)	2
	Orbiniidae sp. (NHM_458)	2
	Orbiniidae sp. (NHM_754)	6
	Orbiniidae sp. (NHM_791)	2
	Orbiniidae sp. (NHM_824)	7
Paraonidae	Paraonidae sp. (NHM_059)	7
	Paraonidae sp. (NHM_1139)	1
	Paraonidae sp. (NHM_177)	2
	Paraonidae sp. (NHM_2118)	1
	Paraonidae sp. (NHM_332)	6
	Paraonidae sp. (NHM_363)	5
	Paraonidae sp. (NHM_412)	3
	Paraonidae sp. (NHM_434)	3
	Paraonidae sp. (NHM_584)	2
	Paraonidae sp. (NHM_902)	4
Pilargidae	<i>Ancistrosyllis</i> sp. (NHM_765)	9
Polynoidae	<i>Bathyfauvelia mariaae</i>	2
	<i>Bathyfauvelia glacigena</i>	9
	<i>Bathyfauvelia ignigena</i>	1
	<i>Polaruschakov lamellae</i>	1
	Polynoidae sp. (NGM_1074)	1
	Polynoidae sp. (NHM_034)	1
	Polynoidae sp. (NHM_1000)	1
	Polynoidae sp. (NHM_128)	8
	Polynoidae sp. (NHM_1655)	2
	Polynoidae sp. (NHM_1763)	1
	Polynoidae sp. (NHM_2097)	1

Family/Order	Species	# Records
	Polynoidae sp. (NHM_2099)	1
	Polynoidae sp. (NHM_2101)	2
	Polynoidae sp. (NHM_2122)	1
	Polynoidae sp. (NHM_2195)	2
	Polynoidae sp. (NHM_583)	2
	Polynoidae sp. (NHM_588)	2
	Polynoidae sp. (NHM_589)	1
	Polynoidae sp. (NHM_595)	8
	Polynoidae sp. (NHM_679)	8
	Polynoidae sp. (NHM_690)	1
	Polynoidae sp. (NHM_747A)	1
	Polynoidae sp. (NHM_747D)	5
	Polynoidae sp. (NHM_756)	2
	Polynoidae sp. (NHM_773B)	7
	Polynoidae sp. (NHM_834)	1
Sabellariidae	Sabellariidae sp. (NHM_1167B)	4
Sabellidae	Sabellidae sp. (NHM_1613)	1
	Sabellidae sp. (NHM_1859A)	1
	Sabellidae sp. (NHM_1879)	1
	Sabellidae sp. (NHM_189)	1
	Sabellidae sp. (NHM_1991)	1
	Sabellidae sp. (NHM_351)	1
	Sabellidae sp. (NHM_370)	1
	Sabellidae sp. (NHM_472)	1
	Sabellidae sp. (NHM_535)	1
	Sabellidae sp. (NHM_647)	1
	Sabellidae sp. (NHM_915D)	2
Sigalionidae	Pholoinae sp. (NHM_366)	4
	Sigalionidae sp. (NHM_1093)	1
	Sigalionidae sp. (NHM_342)	9

Family/Order	Species	# Records
	Sigalionidae sp. (NHM_881)	2
Sphaerodoridae	Sphaerodoridae sp. (NHM_1003)	1
	Sphaerodoridae sp. (NHM_2177)	1
	Sphaerodoridae sp. (NHM_2532)	1
Terebellidae	Terebellidae sp. (NHM_018)	1
Trichobranchidae	<i>Terebellides</i> sp. (NHM_167)	1
	<i>Terebellides</i> sp. (NHM_406)	1
Sipuncula	Sipuncula sp. (NHM_126)	6
	Sipuncula sp. (NHM_1298)	2
	Sipuncula sp. (NHM_148)	1
	Sipuncula sp. (NHM_715)	10

Table 2.
Primers used for PCR and sequencing of COI and 16S.

Primer	Sequence 5'-3'	Reference
COI		
LCO1490	GGTCAACAAATCATAAAGATATTGG	Folmer et al. (1994)
HCO2198	TAACTTCAGGGTGACCAAAAAATCA	Folmer et al. (1994)
COI-E	TATACTCTGGGTGTCCGAAGAATCA	Bely and Wray (2004)
polyLCO	GAYTATWTTCAACAAATCATAAAGATATTGG	Carr et al. (2011)
polyHCO	TAMACTTCWGGGTGACCAARAATCA	Carr et al. 2011
16S		
ann16SF	GCGGTATCCTGACCGTRCWAAGGTA	Sjölin et al. (2005)
16SbrH	CCGGTCTGAACTCAGATCACGT	Palumbi (1996)

Species delimitation and taxonomic assignments

Future studies of biogeographic and bathymetric ranges, gene-flow, extinction risks, natural history, reproductive ecology, functional ecology and geochemical interactions of CCZ species are dependent on accurate taxonomic identifications. Our more recent taxonomic studies (e.g. Glover et al. (2016), Dahlgren et al. (2016), Wiklund et al. (2017), Wiklund et al. (2019), Drennan et al. (2021), Neal et al. (2022a), Neal et al. (2022b)), applied an integrative DNA taxonomy approach, with species delimitation principally based on a

phylogenetic species concept, *sensu* Donoghue (1985) coupled with morphological interpretations. However, in this broader study of all of the annelids, including many poorly-preserved or fragmented individuals, we have relied more heavily on genetic data.

Taxonomic assignments and nomenclature

Almost all species discriminated by the analyses could be identified to family level from morphology and this was cross-checked with the genetic data through a BLAST search. Given the poor preservation of morphology and the goals of this paper to make specimen and genetic data rapidly available for any future studies, we did not attempt to force species into genera in most instances and used an open nomenclature whereby the species are named with the best taxonomic level and a species epithet that refers to the best voucher specimen of that species. For example, Pilargidae sp. (NHM_015) is the informal species name for the species that is represented by two specimens, specimen NHM_015 being the better representative (an informal type specimen). This avoids confusion with the use of sp. A, B, C etc. where informal and confusing synonyms can easily arise.

Species were delimited, based on well-supported clades recovered from phylogenetic trees estimated separately for 16S and COI sequences. Best nucleotide substitution models for each alignment (i.e. 16S and COI) and best-fit partitions were inferred using PartitionFinder 2.0 (Lanfear et al. 2017), utilising a greedy clustering algorithm (Lanfear et al. 2012) and PhyML v.3 (Guindon et al. 2010). Phylogenetic trees were estimated using Bayesian Inference in BEAST v.2.6.2 (Bouckaert et al. 2019) under a Yule speciation model, uncorrelated relaxed clock, GTR+I+G substitution model for each partition of COI (codon positions 1, 2 and 3) and for 16S and a chain length of 100 M, sampling every 10,000. The MCMC runs were inspected convergence in Tracer v.1.7.1. The first 50 M states were discarded as burn-in and a consensus median heights tree was generated from the remaining posterior trees. Trees were visualised using FigTree v.1.4.4 and species clusters were mostly defined from very similar sequences recovered in monophyletic clades with a posterior probability of 1.

Data Handling

The field and laboratory work created a series of databases and sample sets that are integrated into a data-management pipeline. This includes the transfer and management of data and samples between a central collections database, a molecular collections database and external repositories (GenBank, WoRMS, OBIS, GBIF, GGBN, ZooBank) through DwC archives. This provides a robust data framework to support DNA taxonomy, in which openly available data and voucher material is key to quality data standards. All DwC data present in the taxon treatments of the checklist herein are also provided as a supplementary data file to allow for ease of usage (Suppl. material 2). A further elaboration of the data pipeline is published in Glover et al. (2015).

List of Species

A list of the species in this checklist and number of records is provided here in Table 1.

Ampharetidae Malmgren, 1866

Ampharetidae sp. (NHM_015)

Materials

- a. scientificName: Ampharetidae; taxonConceptID: Ampharetidae sp. (NHM_015); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Ampharetidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1866; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4094; locationRemarks: Deployment EB11; at Station S10; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°02.49'; verbatimLongitude: 117°13.03'; decimalLatitude: 12.0415; decimalLongitude: -117.21717; geodeticDatum: WGS84; eventID: OMS1_AB02_EB11; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-13; habitat: Abyssal plain; fieldNotes: Collected from nodule (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.309; recordNumber: NHM_1893; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126196; associatedSequences: OQ746731 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 0A7FA264-84FE-574B-BF4C-026E6BE55820
- b. scientificName: Ampharetidae; taxonConceptID: Ampharetidae sp. (NHM_015); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Ampharetidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1866; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4336; locationRemarks: Deployment EB01; at Station B-K-E; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°50.232; verbatimLongitude: 116°33.506; decimalLatitude: 13.8372; decimalLongitude: -116.55843; geodeticDatum: WGS84; eventID: UK1_AB01_EB01; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2013-10-09; eventTime: 10:26; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.308; recordNumber: NHM_0015; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127342; associatedSequences: OQ746466 (16S) | OQ746789 (18S) | OQ738494 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode:

NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord:
PreservedSpecimen; occurrenceID: 667791B3-AD99-567E-A080-F41C3123770A

Diagnosis: Damaged specimens (Fig. 2) consistent with placement within family Ampharetidae, based on morphology and DNA.

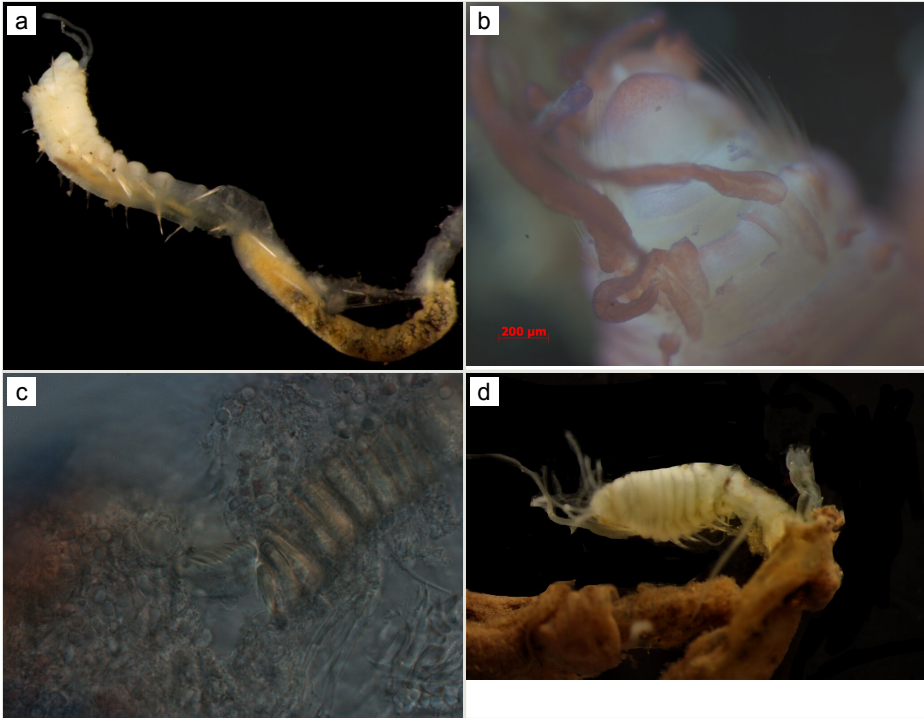


Figure 2.

Ampharetidae sp. (NHM_015).

a: Anterior fragment of live specimen NHM_1893; [doi](#)

b: Dorsal view of prostomium with branchiae, preserved specimen NHM_015; [doi](#)

c: Thoracic uncini, specimen NHM_015; [doi](#)

d: Live specimen NHM_015 in ventral view, partly inside the tube. [doi](#)

Distribution: Eastern Clarion-Clipperton Zone, central Pacific ocean.

Ampharetidae sp. (NHM_044)

Materials

- a. scientificName: Ampharetidae; taxonConceptID: Ampharetidae sp. (NHM_044); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Ampharetidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1866; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4094; locationRemarks: Deployment EB11; at Station S10; from R/V Thomas G. Thompson

Cruise no. TN319; verbatimLatitude: 12°02.49'; verbatimLongitude: 117°13.03'; decimalLatitude: 12.0415; decimalLongitude: -117.21717; geodeticDatum: WGS84; eventID: OMS1_AB02_EB11; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-13; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.311; recordNumber: NHM_19471; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126173; associatedSequences: OQ746738 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 65B5ECB4-3223-5FDE-A716-44F1E8C3A680

- b. scientificName: Ampharetidae; taxonConceptID: Ampharetidae sp. (NHM_044); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Ampharetidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1866; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from supra net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.312; recordNumber: NHM_2769; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126158; associatedSequences: OQ746783 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 8DEE847A-E775-5B20-B2F7-52219A9BCE98
- c. scientificName: Ampharetidae; taxonConceptID: Ampharetidae sp. (NHM_044); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Ampharetidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1866; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4336; locationRemarks: Deployment EB01; at Station B-K-E; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°50.232; verbatimLongitude: 116°33.506; decimalLatitude: 13.8372; decimalLongitude: -116.55843; geodeticDatum: WGS84; eventID: UK1_AB01_EB01; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2013-10-09; eventTime: 10:26; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.310; recordNumber: NHM_0044; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127318; associatedSequences: OQ746470 (16S) | OQ746793 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier |

Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: EB0ED06F-AEFF-5006-8181-F1C25FE55726

Diagnosis: Damaged specimens (Fig. 3) consistent with Ampharetidae, based on morphology and DNA.

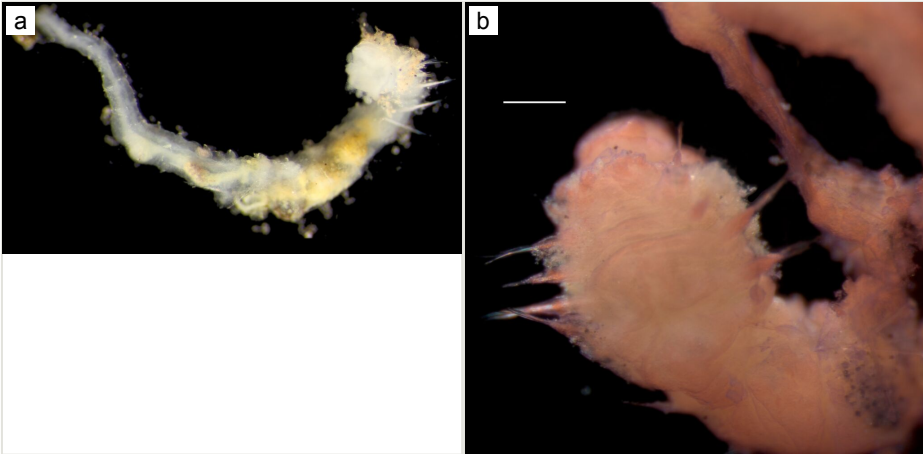


Figure 3.

Ampharetidae sp. (NHM_044).

a: Specimen NHM_044, overview; [doi](#)

b: Specimen NHM_044, dorsal view of anterior end, scale bar 200 μ m. [doi](#)

Distribution: Eastern Clarion-Clipperton Zone, central Pacific ocean.

Ampharetidae sp. (NHM_062)

Materials

- a. scientificName: Ampharetidae; taxonConceptID: Ampharetidae sp. (NHM_062); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Ampharetidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1866; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4233; locationRemarks: Deployment EB09; at Station U1; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°21.81; verbatimLongitude: 116°40.86; decimalLatitude: 12.3635; decimalLongitude: -116.681; geodeticDatum: WGS84; eventID: UK1_AB02_EB09; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-10; eventTime: 10:46; habitat: Abyssal plain; fieldNotes: Collected from supra net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.314; recordNumber: NHM_2541; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126183; associatedSequences: OQ746779 (16S) | OQ738616 (COI); identifiedBy:

- Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 9883D76D-3710-56C8-B231-665FDB2833BA
- b. scientificName: Ampharetidae; taxonConceptID: Ampharetidae sp. (NHM_062); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Ampharetidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1866; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4108; locationRemarks: Deployment BC04; at Station B; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°50.993; verbatimLongitude: 116°38.697; decimalLatitude: 13.84988; decimalLongitude: -116.64495; geodeticDatum: WGS84; eventID: UK1_AB01_BC04; samplingProtocol: USNEL Box Core; eventDate: 2013-10-09; eventTime: 17:34; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.313; recordNumber: NHM_0062; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127389; associatedSequences: OQ746474 (16S) | OQ738499 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: D15497A0-76F6-523E-A84B-77C3F4685510

Diagnosis: Damaged specimen (Fig. 4) consistent with placement within family Ampharetidae, based on morphology and DNA.



Figure 4. [doi](#)

Ampharetidae sp. (NHM_062), specimen NHM_062 in lateral view. Scale bar 500 μ m.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Ampharetidae sp. (NHM_1338)

Materials

- a. scientificName: Ampharetidae; taxonConceptID: Ampharetidae sp. (NHM_1338); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Ampharetidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1866; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.317; recordNumber: NHM_1338; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126541; associatedSequences: OQ746662 (16S) | OQ746890 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 8198ADBC-A581-5F1A-AEE6-C1FEC1F8F6E2
- b. scientificName: Ampharetidae; taxonConceptID: Ampharetidae sp. (NHM_1338); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Ampharetidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1866; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.318; recordNumber: NHM_1347H; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126538; associatedSequences: OQ746666 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: D26AEACE-F406-5672-B690-5BF0ADB022F8
- c. scientificName: Ampharetidae; taxonConceptID: Ampharetidae sp. (NHM_1338); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Ampharetidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1866; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4137; locationRemarks: Deployment EB07; at Station U7; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°27.26;

verbatimLongitude: 116°36.77; decimalLatitude: 12.45433; decimalLongitude: -116.61283; geodeticDatum: WGS84; eventID: UK1_AB02_EB07; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-03; eventTime: 20:40; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.319; recordNumber: NHM_14801; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126167; associatedSequences: OQ746686 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: EAE6F368-F2E1-56C4-9EF4-94BCCCF2E699

Diagnosis: Damaged specimen (Fig. 5) consistent with placement within family Ampharetidae, based on morphology and DNA.



Figure 5. [doi](#)

Ampharetidae sp. (NHM_1338), live specimen NHM_1338.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Ampharetidae sp. (NHM_1161)

Material

- a. scientificName: Ampharetidae; taxonConceptID: Ampharetidae sp. (NHM_1161); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Ampharetidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1866; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke

Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.316; recordNumber: NHM_1161; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126544; associatedSequences: OQ746629 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: FACA35E6-347A-54CA-8D19-6A9C5CA0D813

Diagnosis: Damaged specimen (Fig. 6) consistent with placement within family Ampharetidae, based on morphology and DNA.

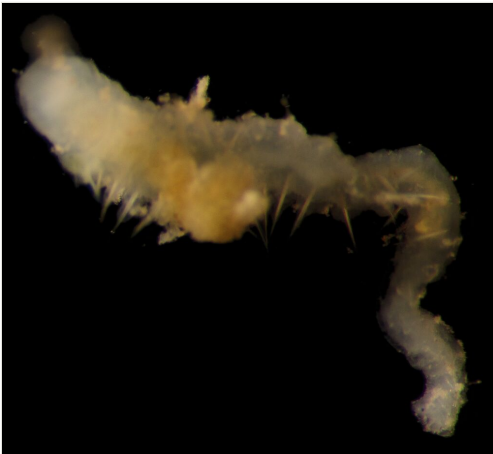


Figure 6. [doi](#)

Ampharetidae sp. (NHM_1161), live specimen NHM_1661 in dorsal view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Ampharetidae sp. (NHM_789)

Materials

- a. scientificName: Ampharetidae; taxonConceptID: Ampharetidae sp. (NHM_789); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Ampharetidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1866; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from epi net

- (on the epibenthic sledge); individualCount: 1; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_1177; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0109405353 | 0174126590; associatedSequences: OQ746639 (16S) | OQ738569 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 8C5D805A-89AF-58C2-A177-310CBF2D9BD6
- b. scientificName: Ampharetidae; taxonConceptID: Ampharetidae sp. (NHM_789); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Ampharetidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1866; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4237; locationRemarks: Deployment BC06; at Station U6; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.742; verbatimLongitude: 116°41.218; decimalLatitude: 12.57903; decimalLongitude: -116.68697; geodeticDatum: WGS84; eventID: UK1_AB02_BC06; samplingProtocol: USNEL Box Core; eventDate: 2015-02-22; eventTime: 05:08; habitat: Abyssal plain; fieldNotes: Collected from nodule in box core sample; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.332; recordNumber: NHM_0870; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126619; associatedSequences: OQ746569 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 0DE37950-8866-5263-AB15-201BEBA06625
- c. scientificName: Ampharetidae; taxonConceptID: Ampharetidae sp. (NHM_789); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Ampharetidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1866; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4425; locationRemarks: Deployment EB02; at Station U5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°32.23; verbatimLongitude: 116°36.25; decimalLatitude: 12.53717; decimalLongitude: -116.60417; geodeticDatum: WGS84; eventID: UK1_AB02_EB02; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-20; eventTime: 06:24; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.331; recordNumber: NHM_0789; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126596; associatedSequences: OQ746561 (16S) | OQ746860 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: D791260E-EDCE-5FF5-9BF5-9D7223F1C860

- d. scientificName: Ampharetidae; taxonConceptID: Ampharetidae sp. (NHM_789); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Ampharetidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1866; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4258; locationRemarks: Deployment BC20; at Station U13; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°35.813; verbatimLongitude: 116°29.614; decimalLatitude: 12.59688; decimalLongitude: -116.49357; geodeticDatum: WGS84; eventID: UK1_AB02_BC20; samplingProtocol: USNEL Box Core; eventDate: 2015-03-09; habitat: Abyssal plain; fieldNotes: Collected from nodule in box core sample; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.333; recordNumber: NHM_1631; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126237; associatedSequences: OQ746698 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 664C4AA4-243C-54FF-A390-80608E891287

Diagnosis: Damaged specimen (Fig. 7) consistent with placement within family Ampharetidae, based on morphology and DNA.



Figure 7. [doi](#)

Ampharetidae sp. (NHM_789), live specimen NHM_870 in lateral view. Scale bar: 1 mm.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Ampharetidae sp. (NHM_265)

Material

- a. scientificName: Ampharetidae; taxonConceptID: Ampharetidae sp. (NHM_265); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Ampharetidae;

taxonRank: family; scientificNameAuthorship: Malmgren, 1866; waterBody: Pacific;
 stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration
 area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4128;
 locationRemarks: Deployment EB04; at Station G-I; from R/V Melville Cruise no.
 MV1313; verbatimLatitude: 13°45.21N; verbatimLongitude: 116°29.12W; decimalLatitude:
 13.75583; decimalLongitude: -116.48667; geodeticDatum: WGS84; eventID:
 UK1_AB01_EB04; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2013-10-17;
 eventTime: 01:50; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the
 epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-
 denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber:
 NHMUK ANEA 2023.325; recordNumber: NHM_0265; recordedBy: Adrian Glover |
 Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers:
 0174127346; associatedSequences: OQ746490 (16S) | OQ746809 (18S) | OQ738508
 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover |
 Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20;
 identificationRemarks: identified by DNA and morphology; language: en; institutionCode:
 NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord:
 PreservedSpecimen; occurrenceID: E9B2998D-6DE9-5E70-BAA7-3027D067D1A4

Diagnosis: Damaged specimen (Fig. 8) consistent with placement within family Ampharetidae, based on morphology and DNA.



Figure 8. [doi](#)

Ampharetidae sp. (NHM_265), live specimen NHM_265 in lateral view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Ampharetidae sp. (NHM_292)

Materials

- a. scientificName: Ampharetidae; taxonConceptID: Ampharetidae sp. (NHM_292); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Ampharetidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1866; waterBody: Pacific;

stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4094; locationRemarks: Deployment EB11; at Station S10; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°02.49'; verbatimLongitude: 117°13.03'; decimalLatitude: 12.0415; decimalLongitude: -117.21717; geodeticDatum: WGS84; eventID: OMS1_AB02_EB11; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-13; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.328; recordNumber: NHM_1865; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126147; associatedSequences: OQ746726 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 4250E561-2280-534F-8A33-80C168B029EB

- b. scientificName: Ampharetidae; taxonConceptID: Ampharetidae sp. (NHM_292); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Ampharetidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1866; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4094; locationRemarks: Deployment EB11; at Station S10; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°02.49'; verbatimLongitude: 117°13.03'; decimalLatitude: 12.0415; decimalLongitude: -117.21717; geodeticDatum: WGS84; eventID: OMS1_AB02_EB11; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-13; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.329; recordNumber: NHM_1947B; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126187; associatedSequences: OQ746735 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: BD75E160-CE38-5DC9-BBE5-52BE9AE3AE52

- c. scientificName: Ampharetidae; taxonConceptID: Ampharetidae sp. (NHM_292); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Ampharetidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1866; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4070; locationRemarks: Deployment BC09; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°04.914; verbatimLongitude: 117°10.691; decimalLatitude: 12.0819; decimalLongitude: -117.19283; geodeticDatum: WGS84; eventID: OMS1_AB02_BC09; samplingProtocol: USNEL Box Core; eventDate: 2015-02-26; eventTime: 00:37; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.327; recordNumber: NHM_1056; recordedBy:

- Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier;
 otherCatalogNumbers: 0174126534; associatedSequences: OQ746610 (16S);
 identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine
 Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20;
 identificationRemarks: identified by DNA and morphology; language: en; institutionCode:
 NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord:
 PreservedSpecimen; occurrenceID: 93C0FFA4-4E5E-585B-BCA8-61D51E4947DE
- d. scientificName: Ampharetidae; taxonConceptID: Ampharetidae sp. (NHM_292); kingdom:
 Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Ampharetidae;
 taxonRank: family; scientificNameAuthorship: Malmgren, 1866; waterBody: Pacific;
 stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration
 area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4128;
 locationRemarks: Deployment EB04; at Station G-I; from R/V Melville Cruise no.
 MV1313; verbatimLatitude: 13°45.21N; verbatimLongitude: 116°29.12W; decimalLatitude:
 13.75583; decimalLongitude: -116.48667; geodeticDatum: WGS84; eventID:
 UK1_AB01_EB04; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2013-10-17;
 eventTime: 01:50; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the
 epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-
 denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber:
 NHMUK ANEA 2023.326; recordNumber: NHM_0292; recordedBy: Adrian Glover |
 Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers:
 0174127370; associatedSequences: OQ746493 (16S) | OQ746812 (18S) | OQ738511
 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover |
 Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20;
 identificationRemarks: identified by DNA and morphology; language: en; institutionCode:
 NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord:
 PreservedSpecimen; occurrenceID: DBD48590-7B08-583C-AD7E-97B0364CFA1A

Diagnosis: Damaged specimens (Fig. 9) consistent with placement within family Ampharetidae, based on morphology and DNA.



Figure 9. [doi](#)

Ampharetidae sp. (NHM_292), live specimen NHM_1865 in lateral view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Ampharetidae sp. (NHM_774)

Material

- a. scientificName: Ampharetidae; taxonConceptID: Ampharetidae sp. (NHM_774); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Ampharetidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1866; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4425; locationRemarks: Deployment EB02; at Station U5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°32.23; verbatimLongitude: 116°36.25; decimalLatitude: 12.53717; decimalLongitude: -116.60417; geodeticDatum: WGS84; eventID: UK1_AB02_EB02; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-20; eventTime: 06:24; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.330; recordNumber: NHM_0774; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126620; associatedSequences: OQ746558 (16S) | OQ746859 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: A2AB0A12-F120-5C81-BF8E-A33B95008AF1

Diagnosis: Damaged specimen (Fig. 10) consistent with placement within family Ampharetidae, based on morphology and DNA.



Figure 10. [doi](#)

Ampharetidae sp. (NHM_774), posteriorly incomplete specimen NHM_774. Scale bar: 1 mm.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Ampharetidae sp. (NHM_1082)**Material**

- a. scientificName: Ampharetidae; taxonConceptID: Ampharetidae sp. (NHM_1082); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Ampharetidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1866; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.315; recordNumber: NHM_1082; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126583; associatedSequences: OQ746614 (16S) | OQ746874 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: D14E9925-C50B-5EB8-808B-0DF8AF255839

Diagnosis: Damaged specimens (Fig. 11) consistent with placement within family Ampharetidae, based on morphology and DNA.



Figure 11. [doi](#)

Ampharetidae sp. (NHM_1082). **A** Live specimen NHM_1082 in dorsal view. Scale bar: 1 mm; **B** Thorax and anterior end of specimen NHM_1082 in lateral view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Ampharetidae sp. (NHM_163)

Materials

- a. scientificName: Ampharetidae; taxonConceptID: Ampharetidae sp. (NHM_163); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Ampharetidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1866; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4122; locationRemarks: Deployment EB04; at Station S1; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°08.02; verbatimLongitude: 117°17.52; decimalLatitude: 12.13367; decimalLongitude: -117.292; geodeticDatum: WGS84; eventID: OMS1_AB02_EB04; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-24; eventTime: 19:10; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.324; recordNumber: NHM_1025B; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126558; associatedSequences: OQ746608 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 21131AAA-75B7-5229-84A0-C3C8A62E3EEE
- b. scientificName: Ampharetidae; taxonConceptID: Ampharetidae sp. (NHM_163); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Ampharetidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1866; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4084; locationRemarks: Deployment BC06; at Station D; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°57.794; verbatimLongitude: 116°34.093; decimalLatitude: 13.96323; decimalLongitude: -116.56822; geodeticDatum: WGS84; eventID: UK1_AB01_BC06; samplingProtocol: USNEL Box Core; eventDate: 2013-10-12; eventTime: 23:01:00; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.322; recordNumber: NHM_0163; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127365; associatedSequences: OQ746480 (16S) | OQ746802 (18S) | OQ738502 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: EF5227F0-E817-59D1-9FAD-D00A41C502EB
- c. scientificName: Ampharetidae; taxonConceptID: Ampharetidae sp. (NHM_163); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Ampharetidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1866; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4075; locationRemarks: Deployment RV05; at Station G; from R/V Melville Cruise no. MV1313; decimalLatitude: 13.76085; decimalLongitude: -116.4653; geodeticDatum: WGS84;

eventID: UK1_AB01_RV05; samplingProtocol: Remotely Operated Vehicle; eventDate: 2013-10-17; eventTime: 19:06; habitat: Abyssal plain; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.323; recordNumber: NHM_0334; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127373; associatedSequences: OQ746498 (16S) | OQ746816 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 3D9F7E8B-9CBD-504B-ADA7-3A5FAFC1523C

Diagnosis: Damaged specimens (Fig. 12) consistent with placement within family Ampharetidae, based on morphology and DNA.



Figure 12. [doi](#)

Ampharetidae sp. (NHM_163), anterior fragment of live specimen NHM_1025B, in dorsal view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Ampharetidae sp. (NHM_1599)

Materials

- a. scientificName: Ampharetidae; taxonConceptID: Ampharetidae sp. (NHM_1599); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Ampharetidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1866; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4094; locationRemarks: Deployment EB11; at Station S10; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°02.49'; verbatimLongitude: 117°13.03'; decimalLatitude: 12.0415; decimalLongitude: -117.21717; geodeticDatum: WGS84; eventID: OMS1_AB02_EB11; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-13; habitat: Abyssal plain; fieldNotes: Collected

- from supra net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.321; recordNumber: NHM_3052; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174123645; associatedSequences: OQ746787 (16S) | OQ738620 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: BC7C7D83-CC6F-556D-9852-569AECFFDD26
- b. scientificName: Ampharetidae; taxonConceptID: Ampharetidae sp. (NHM_1599); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Ampharetidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1866; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4237; locationRemarks: Deployment BC19; at Station U12; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°31.273; verbatimLongitude: 116°41.889; decimalLatitude: 12.52122; decimalLongitude: -116.69815; geodeticDatum: WGS84; eventID: UK1_AB02_BC19; samplingProtocol: USNEL Box Core; eventDate: 2015-03-08; eventTime: 01:04; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.320; recordNumber: NHM_1599; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126145; associatedSequences: OQ746697 (16S) | OQ738594 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 8CA1389D-CD21-5A98-8548-02A0E366113B

Diagnosis: Damaged specimen (Fig. 13) consistent with placement within family Ampharetidae, based on morphology and DNA.



Figure 13. [doi](#)

Ampharetidae sp. (NHM_1599), live specimen NHM_1599 in dorsal view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Ampharetidae sp. (NHM_1578)

Materials

- a. scientificName: Ampharetidae; taxonConceptID: Ampharetidae sp. (NHM_1578); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Ampharetidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1866; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4233; locationRemarks: Deployment EB09; at Station U1; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°21.81; verbatimLongitude: 116°40.86; decimalLatitude: 12.3635; decimalLongitude: -116.681; geodeticDatum: WGS84; eventID: UK1_AB02_EB09; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-10; eventTime: 10:46; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_1679; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0109405403 | 0174126146; associatedSequences: OQ746705 (16S) | OQ738596 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 7AB8D3F6-877D-58CC-B47B-ED903976172F
- b. scientificName: Ampharetidae; taxonConceptID: Ampharetidae sp. (NHM_1578); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Ampharetidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1866; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4136; locationRemarks: Deployment BC18; at Station U12; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°25.195; verbatimLongitude: 116°37.477; decimalLatitude: 12.41992; decimalLongitude: -116.62462; geodeticDatum: WGS84; eventID: UK1_AB02_BC18; samplingProtocol: USNEL Box Core; eventDate: 2015-03-07; habitat: Abyssal plain; fieldNotes: Collected from nodule in box core sample; individualCount: 1; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_1578; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0109405427 | 0174126169; associatedSequences: OQ746695 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: AEOB551A-4B52-5749-83EB-BFEC9AF4DDB2

Diagnosis: Damaged specimens consistent with placement within family Ampharetidae, based on morphology and DNA. Live specimens inside the tube found attached to the nodules (Fig. 14).



Figure 14. [doi](#)

Ampharetidae sp. (NHM_1578), live specimen NHM_1578 inside the muddy tube attached to the nodule.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Chaetopteridae Audouin and Milne Edwards, 1833

Chaetopteridae sp. (NHM_331)

Materials

- a. scientificName: Chaetopteridae; taxonConceptID: Chaetopteridae sp. (NHM_331); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Chaetopteridae; taxonRank: family; scientificNameAuthorship: Audouin & Milne Edwards, 1833; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.336; recordNumber: NHM_1163B; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126615; associatedSequences:

- OQ738564 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 33907DBF-3CBE-5938-AFF9-D89E722F9420
- b. scientificName: Chaetopteridae; taxonConceptID: Chaetopteridae sp. (NHM_331); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Chaetopteridae; taxonRank: family; scientificNameAuthorship: Audouin & Milne Edwards, 1833; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4160; locationRemarks: Deployment BC14; at Station L; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°43.597; verbatimLongitude: 116°40.200; decimalLatitude: 13.72662; decimalLongitude: -116.67; geodeticDatum: WGS84; eventID: UK1_AB01_BC14; samplingProtocol: USNEL Box Core; eventDate: 2013-10-22; eventTime: 07:25; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.335; recordNumber: NHM_0461; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127341; associatedSequences: OQ746523 (16S) | OQ746839 (18S) | OQ738523 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 3E51E30E-453C-5372-A61F-04D09B8071BD
- c. scientificName: Chaetopteridae; taxonConceptID: Chaetopteridae sp. (NHM_331); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Chaetopteridae; taxonRank: family; scientificNameAuthorship: Audouin & Milne Edwards, 1833; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4075; locationRemarks: Deployment RV05; at Station G; from R/V Melville Cruise no. MV1313; decimalLatitude: 13.76085; decimalLongitude: -116.4653; geodeticDatum: WGS84; eventID: UK1_AB01_RV05; samplingProtocol: Remotely Operated Vehicle; eventDate: 2013-10-17; eventTime: 19:06; habitat: Abyssal plain; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.334; recordNumber: NHM_0331; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127338; associatedSequences: OQ746496 (16S) | OQ746815 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: D3FE16FA-F760-5239-8DB1-BA9216776507

Diagnosis: Damaged specimens (Fig. 15) consistent with placement within family Chaetopteridae, based on morphology and DNA.



Figure 15. [doi](#)

Chaetopteridae sp. (NHM_331), live specimen NHM_461 in dorsal view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Chrysopetalidae Ehlers, 1864

Chrysopetalidae sp. (NHM_2026)

Material

- a. scientificName: Chrysopetalidae; taxonConceptID: Chrysopetalidae sp. (NHM_2026); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Chrysopetalidae; taxonRank: family; scientificNameAuthorship: Ehlers, 1864; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4235; locationRemarks: Deployment EB12; at Station S11; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12'03.03; verbatimLongitude: 117°24.28; decimalLatitude: 12.0505; decimalLongitude: -117.40467; geodeticDatum: WGS84; eventID: OMS1_AB02_EB12; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-16; eventTime: 05:30; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 2; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_2026; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174127391 | 0174123646; associatedSequences: OQ746747 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 6CB2964D-1B80-5F26-ABCD-332F57EACAD9

Diagnosis: Damaged specimen consistent with placement within family Chrysopetalidae Ehlers, 1864 based on morphology and DNA.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Chrysopetalidae sp. (NHM_410)

Material

- a. scientificName: Chrysopetalidae; taxonConceptID: Chrysopetalidae sp. (NHM_410); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Chrysopetalidae; taxonRank: family; scientificNameAuthorship: Ehlers, 1864; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratium A; verbatimLocality: UK1 Stratium A; maximumDepthInMeters: 4500; locationRemarks: Deployment BC12; at Station K; from R/V Melville Cruise no. MV1313; decimalLatitude: 13.86328; decimalLongitude: -116.54885; geodeticDatum: WGS84; eventID: UK1_AB01_BC12; samplingProtocol: USNEL Box Core; eventDate: 2013-10-20; eventTime: 03:39; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_0410; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0109405360 | 0174127297; associatedSequences: OQ746510 (16S) | OQ738518 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: A1F1FF52-ABD9-58B5-B30D-AEDC4CF8C359

Diagnosis: Damaged specimen (Fig. 16) consistent with placement within family Chrysopetalidae Ehlers, 1864, based on morphology and DNA.



Figure 16. [doi](#)

Chrysopetalidae sp. (NHM_410), anterior end of live specimen NHM_410 in dorsal view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Chrysopetalidae sp. (NHM_1550)

Material

- a. scientificName: Chrysopetalidae; taxonConceptID: Chrysopetalidae sp. (NHM_1550); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Chrysopetalidae; taxonRank: family; scientificNameAuthorship: Ehlers, 1864; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4226; locationRemarks: Deployment MC15; at Station U10; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.188; verbatimLongitude: 116°32.331; decimalLatitude: 12.5698; decimalLongitude: -116.53885; geodeticDatum: WGS84; eventID: UK1_AB02_MC15; samplingProtocol: Multi Corer; eventDate: 2015-03-06; eventTime: 06:40; habitat: Abyssal plain; individualCount: 1; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_1550; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0109405058 | 0174126190; associatedSequences: OQ746694 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 6F7DBD3E-1EEF-597F-B530-C7C2771A9BB0

Diagnosis: Damaged specimen (Fig. 17) consistent with placement within family Chrysopetalidae, based on morphology and DNA.

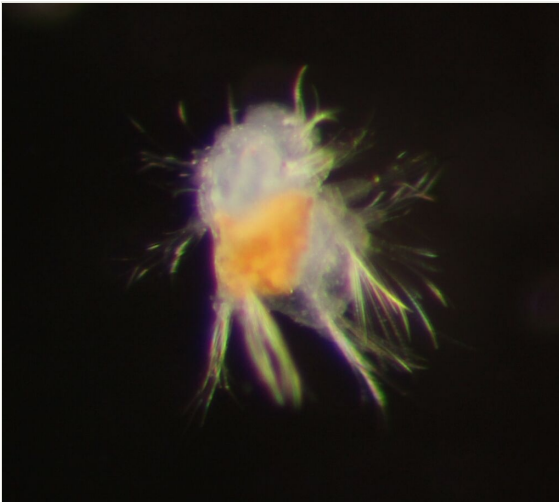


Figure 17. [doi](#)

Chrysopetalidae sp. (NHM_1550), body fragment of live specimen NHM_1550.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Chrysopetalidae sp. NHM (1303)**Materials**

- a. scientificName: Chrysopetalidae; taxonConceptID: Chrysopetalidae NHM (1303); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Chrysopetalidae; taxonRank: family; scientificNameAuthorship: Ehlers, 1864; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.338; recordNumber: NHM_1303; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126610; associatedSequences: OQ746654 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 27C6DC8E-377E-551A-8913-9B45466E4A56
- b. scientificName: Chrysopetalidae; taxonConceptID: Chrysopetalidae NHM (1303); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Chrysopetalidae; taxonRank: family; scientificNameAuthorship: Ehlers, 1864; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_1349; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0109405357 | 0174126564; associatedSequences: OQ746671 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: F2F25CEF-4B63-50BF-A2D1-D4AC898A0151

Diagnosis: Damaged specimens (Fig. 18) consistent with placement within family Chrysopetalidae, based on morphology and DNA.

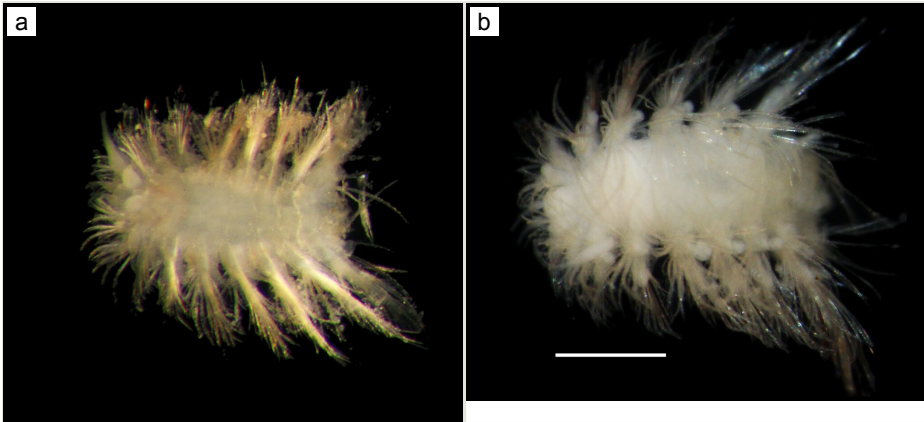


Figure 18.

Chrysopetalidae sp. (NHM_1303).

a: Anterior fragment of live specimen NHM_1303 in ventral view; [doi](#)

b: Anterior fragment of preserved specimen NHM_1303 in dorsal view, scale bar 0.5 mm.

[doi](#)

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Chrysopetalidae sp. (NHM_748A)

Material

- a. scientificName: Chrysopetalidae; taxonConceptID: Chrysopetalidae sp. (NHM_748A); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Chrysopetalidae; taxonRank: family; scientificNameAuthorship: Ehlers, 1864; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4425; locationRemarks: Deployment EB02; at Station U5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°32.23; verbatimLongitude: 116°36.25; decimalLatitude: 12.53717; decimalLongitude: -116.60417; geodeticDatum: WGS84; eventID: UK1_AB02_EB02; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-20; eventTime: 06:24; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.337; recordNumber: NHM_0748A; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126549; associatedSequences: OQ746550 (16S) | OQ746856 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 51A6FF98-3DC7-5009-94F0-DFF69B9F859E

Diagnosis: Damaged specimen (Fig. 19) consistent with placement within family Chrysopetalidae, based on morphology and DNA.



Figure 19. [doi](#)

Chrysopetalidae sp. (NHM_748A), anterior fragment of live specimen NHM_748A. Scale bar: 500 μ m.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Cirratulidae Ryckholt, 1851

Cirratulidae sp. (NHM_530)

Materials

- a. scientificName: Cirratulidae; taxonConceptID: Cirratulidae sp. (NHM_530); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44'; verbatimLongitude: 117°18.13'; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.362; recordNumber: NHM_1268; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126537; associatedSequences: OQ746648 (16S) | OQ738575 (COI); identifiedBy:

- Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; *dateIdentified*: 2021-04-20; *identificationRemarks*: identified by DNA and morphology; *language*: en; *institutionCode*: NHMUK; *collectionCode*: ZOO; *datasetName*: ABYSSLINE; *basisOfRecord*: PreservedSpecimen; *occurrenceID*: 62CED7EC-7D44-53E5-856F-BDC4B84AA420
- b. *scientificName*: Cirratulidae; *taxonConceptID*: Cirratulidae sp. (NHM_530); *kingdom*: Animalia; *phylum*: Annelida; *class*: Polychaeta; *order*: Terebellida; *family*: Cirratulidae; *taxonRank*: family; *scientificNameAuthorship*: Ryckholt, 1851; *waterBody*: Pacific; *stateProvince*: Clarion Clipperton Zone; *locality*: Ocean Mineral Singapore exploration claim Stratum A; *verbatimLocality*: OMS Stratum A; *maximumDepthInMeters*: 4302; *locationRemarks*: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; *verbatimLatitude*: 12°15.44; *verbatimLongitude*: 117°18.13; *decimalLatitude*: 12.25733; *decimalLongitude*: -117.30217; *geodeticDatum*: WGS84; *eventID*: OMS1_AB02_EB06; *samplingProtocol*: Brenke Epibenthic Sledge; *eventDate*: 2015-03-01; *eventTime*: 04:02; *habitat*: Abyssal plain; *fieldNotes*: Collected from epi net (on the epibenthic sledge); *individualCount*: 1; *preparations*: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; *recordNumber*: NHM_1348H; *recordedBy*: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; *otherCatalogNumbers*: 0109405378 | 0174126588; *associatedSequences*: OQ746669 (16S) | OQ738579 (COI); *identifiedBy*: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; *dateIdentified*: 2021-04-20; *identificationRemarks*: identified by DNA and morphology; *language*: en; *institutionCode*: NHMUK; *collectionCode*: ZOO; *datasetName*: ABYSSLINE; *basisOfRecord*: PreservedSpecimen; *occurrenceID*: 643009D7-D068-5941-8848-13A7BB7FC6FD
- c. *scientificName*: Cirratulidae; *taxonConceptID*: Cirratulidae sp. (NHM_530); *kingdom*: Animalia; *phylum*: Annelida; *class*: Polychaeta; *order*: Terebellida; *family*: Cirratulidae; *taxonRank*: family; *scientificNameAuthorship*: Ryckholt, 1851; *waterBody*: Pacific; *stateProvince*: Clarion Clipperton Zone; *locality*: UK Seabed Resources Ltd exploration area UK-1 Stratum B; *verbatimLocality*: UK1 Stratum B; *maximumDepthInMeters*: 4158; *locationRemarks*: Deployment BC02; at Station U2; from R/V Thomas G. Thompson Cruise no. TN319; *verbatimLatitude*: 12°22.020; *verbatimLongitude*: 116°31.017; *decimalLatitude*: 12.367; *decimalLongitude*: -116.51695; *geodeticDatum*: WGS84; *eventID*: UK1_AB02_BC02; *samplingProtocol*: USNEL Box Core; *eventDate*: 2015-02-17; *eventTime*: 12:12; *habitat*: Abyssal plain; *fieldNotes*: Collected from 0-2 cm layer of box core using a 300 micron sieve; *individualCount*: 1; *preparations*: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; *catalogNumber*: NHMUK ANEA 2023.361; *recordNumber*: NHM_0530; *recordedBy*: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; *otherCatalogNumbers*: 0174126731; *associatedSequences*: OQ746525 (16S) | OQ746842 (18S) | OQ738524 (COI); *identifiedBy*: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; *dateIdentified*: 2021-04-20; *identificationRemarks*: identified by DNA and morphology; *language*: en; *institutionCode*: NHMUK; *collectionCode*: ZOO; *datasetName*: ABYSSLINE; *basisOfRecord*: PreservedSpecimen; *occurrenceID*: D779D49E-D225-5B2F-8BC6-E72B98AE12A1

Diagnosis: Damaged specimens (Fig. 20) consistent with placement within family Cirratulidae, based on morphology and DNA.



Figure 20. [doi](#)

Cirratulidae sp. (NHM_530), live specimen NHM_1268 in dorsolateral view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Cirratulidae sp. (NHM_734)

Material

- a. scientificName: Cirratulidae; taxonConceptID: Cirratulidae sp. (NHM_734); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4425; locationRemarks: Deployment EB02; at Station U5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°32.23; verbatimLongitude: 116°36.25; decimalLatitude: 12.53717; decimalLongitude: -116.60417; geodeticDatum: WGS84; eventID: UK1_AB02_EB02; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-20; eventTime: 06:24; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_0734; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0109405383 | 0174126621; associatedSequences: OQ746545 (16S) | OQ746853 (18S) | OQ738534 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: B9BD1477-E343-5B43-8335-1A7EE6EBF14B

Diagnosis: Damaged specimen (Fig. 21) consistent with placement within family Cirratulidae, based on morphology and DNA.



Figure 21. [doi](#)

Cirratulidae sp. (NHM_734), anterior fragment of the live specimen NHM_734.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Cirratulidae sp. (NHM_904)

Materials

- a. scientificName: Cirratulidae; taxonConceptID: Cirratulidae sp. (NHM_904); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_13481; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0109405357 | 0174126587; associatedSequences: OQ746670 (16S) | OQ738580 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 2A094F01-8289-5FB6-826D-5AEA170FC622
- b. scientificName: Cirratulidae; taxonConceptID: Cirratulidae sp. (NHM_904); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63;

decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.363; recordNumber: NHM_0904; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126812; associatedSequences: OQ746574 (16S) | OQ746865 (18S) | OQ738542 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 5A98AB6B-6421-531E-8C96-8DC8A332DDC0

Diagnosis: Damaged specimens (Fig. 22) consistent with placement within family Cirratulidae, based on morphology and DNA.



Figure 22. [doi](#)

Cirratulidae sp. (NHM_904), anterior end of live specimen NHM_904.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Cirratulidae sp. (NHM_915G)

Materials

- a. scientificName: Cirratulidae; taxonConceptID: Cirratulidae sp. (NHM_915G); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44'; verbatimLongitude: 117°18.13'; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84;

eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.365; recordNumber: NHM_1271; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126613; associatedSequences: OQ746650 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 3DECDE61-60B5-5027-AA89-5E9EC344DF92

- b. scientificName: Cirratulidae; taxonConceptID: Cirratulidae sp. (NHM_915G); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4094; locationRemarks: Deployment EB11; at Station S10; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°02.49'; verbatimLongitude: 117°13.03'; decimalLatitude: 12.0415; decimalLongitude: -117.21717; geodeticDatum: WGS84; eventID: OMS1_AB02_EB11; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-13; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.367; recordNumber: NHM_1948B; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126149; associatedSequences: OQ746740 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 71C5D278-2C87-538C-9950-51E9499B8BEE
- c. scientificName: Cirratulidae; taxonConceptID: Cirratulidae sp. (NHM_915G); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4045; locationRemarks: Deployment EB10; at Station S7; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°10.43; verbatimLongitude: 117°11.57; decimalLatitude: 12.17383; decimalLongitude: -117.19283; geodeticDatum: WGS84; eventID: OMS1_AB02_EB10; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-11; eventTime: 22:49; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.366; recordNumber: NHM_1784; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126148; associatedSequences: OQ746720 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName:

- ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: C26DC393-E47F-551B-9E90-1E968E3D8419
- d. scientificName: Cirratulidae; taxonConceptID: Cirratulidae sp. (NHM_915G); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63; decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.364; recordNumber: NHM_0915G; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126547; associatedSequences: OQ746582 (16S) | OQ746866 (18S) | OQ738545 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: BA345B22-C418-55F2-9AA5-DE601137D123

Diagnosis: Damaged specimens (Fig. 23) consistent with placement within family Cirratulidae, based on morphology and DNA.



Figure 23. [doi](#)

Cirratulidae sp. (NHM_915G), anterior of fragment of live specimen NHM_1271.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Cirratulidae sp. (NHM_945C)

Material

- a. scientificName: Cirratulidae; taxonConceptID: Cirratulidae sp. (NHM_945C); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63; decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.368; recordNumber: NHM_0945C; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126546; associatedSequences: OQ746594 (16S) | OQ746867 (18S) | OQ738551 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: C3206274-F5C3-52DD-9CDB-DAE9C198C20B

Diagnosis: Damaged specimen (Fig. 24) consistent with placement within family Cirratulidae, based on morphology and DNA.



Figure 24. [doi](#)

Cirratulidae sp. (NHM_945C), anterior end of live specimen NHM_945C in lateral view. Scale bar: 1 mm.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Cirratulidae sp. (NHM_1001)

Material

- a. scientificName: Cirratulidae; taxonConceptID: Cirratulidae sp. (NHM_1001); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4122; locationRemarks: Deployment EB04; at Station S1; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°08.02; verbatimLongitude: 117°17.52; decimalLatitude: 12.13367; decimalLongitude: -117.292; geodeticDatum: WGS84; eventID: OMS1_AB02_EB04; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-24; eventTime: 19:10; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.343; recordNumber: NHM_1001; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126582; associatedSequences: OQ746602 (16S) | OQ746869 (18S) | OQ738554 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 38F92F98-0ADD-5143-B6D9-9429F17B9BFE

Diagnosis: Damaged specimen (Fig. 25) consistent with placement within family Cirratulidae, based on morphology and DNA.



Figure 25. [doi](#)

Cirratulidae sp. (NHM_1001), anterior fragment of live specimen NHM_1001 in lateral view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Cirratulidae sp. (NHM_1235)

Materials

- a. scientificName: Cirratulidae; taxonConceptID: Cirratulidae sp. (NHM_1235); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4090; locationRemarks: Deployment BC11; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°13.0425; verbatimLongitude: 117°19.5229; decimalLatitude: 12.21738; decimalLongitude: -117.32538; geodeticDatum: WGS84; eventID: OMS1_AB02_BC11; samplingProtocol: USNEL Box Core; eventDate: 2015-02-28; eventTime: 12:09; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.344; recordNumber: NHM_1235; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126761; associatedSequences: OQ746642 (16S) | OQ746882 (18S) | OQ738572 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 9E7B92EE-AFA2-56E7-A102-AF9FF59E2832
- b. scientificName: Cirratulidae; taxonConceptID: Cirratulidae sp. (NHM_1235); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4090; locationRemarks: Deployment BC11; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°13.0425; verbatimLongitude: 117°19.5229; decimalLatitude: 12.21738; decimalLongitude: -117.32538; geodeticDatum: WGS84; eventID: OMS1_AB02_BC11; samplingProtocol: USNEL Box Core; eventDate: 2015-02-28; eventTime: 12:09; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_1236; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0109405405 | 0174126561; associatedSequences: OQ746643 (16S) | OQ738573 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 68CF5773-79FC-5354-800D-E3FB33F56BDA
- c. scientificName: Cirratulidae; taxonConceptID: Cirratulidae sp. (NHM_1235); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson

Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from supra net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.345; recordNumber: NHM_2267; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126160; associatedSequences: OQ746768 (16S) | OQ738610 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 575F84CD-A6B7-5A27-B43C-1C505F4DA337

Diagnosis: Damaged specimen (Fig. 26) consistent with placement within family Cirratulidae, based on morphology and DNA.



Figure 26. [doi](#)

Cirratulidae sp. (NHM_1235), anterior end of live specimen NHM_1235.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Cirratulidae sp. (NHM_1429)

Material

- a. scientificName: Cirratulidae; taxonConceptID: Cirratulidae sp. (NHM_1429); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4137; locationRemarks: Deployment EB07; at Station U7; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°27.26; verbatimLongitude: 116°36.77; decimalLatitude: 12.45433; decimalLongitude: -116.61283; geodeticDatum: WGS84; eventID: UK1_AB02_EB07; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-03; eventTime: 20:40; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber:

NHMHUK ANEA 2023.346; recordNumber: NHM_1429; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126795; associatedSequences: OQ746679 (16S) | OQ738584 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMHUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: A47A987B-669A-5489-B17B-0D9A6B1D5575

Diagnosis: Damaged specimen (Fig. 27) consistent with placement within family Cirratulidae, based on morphology and DNA.



Figure 27. [doi](#)

Cirratulidae sp. (NHM_1429), anterior end of live specimen NHM_1429.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Cirratulidae sp. (NHM_1518)

Material

- a. scientificName: Cirratulidae; taxonConceptID: Cirratulidae sp. (NHM_1518); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4252; locationRemarks: Deployment EB08; at Station U11; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°30.79; verbatimLongitude: 116°29.48; decimalLatitude: 12.51317; decimalLongitude: -116.49133; geodeticDatum: WGS84; eventID: UK1_AB02_EB08; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-05; eventTime: 18:53; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMHUK ANEA 2023.347; recordNumber: NHM_1518; recordedBy: Adrian Glover |

Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126217; associatedSequences: OQ746690 (16S) | OQ738592 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 3F24B635-16EE-501C-B5D6-1489D94A1E25

Diagnosis: Damaged specimen (Fig. 28) consistent with placement within family Cirratulidae, based on morphology and DNA.



Figure 28. [doi](#)

Cirratulidae sp. (NHM_1518), anterior end of live specimen NHM_1518 in dorsal view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Cirratulidae sp. (NHM_2093)

Material

- a. scientificName: Cirratulidae; taxonConceptID: Cirratulidae sp. (NHM_2093); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Area of Particular Interest APEI-6; verbatimLocality: APEI-6; maximumDepthInMeters: 4026; locationRemarks: Deployment EB13; at Station APEI; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 19 27.874; verbatimLongitude: 120 01.525; decimalLatitude: 19.46457; decimalLongitude: -120.02542; geodeticDatum: WGS84; eventID: APEI6_AB02_EB13; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-20; eventTime: 16:12; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.349; recordNumber: NHM_2093; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126762;

associatedSequences: OQ746749 (16S) | OQ746903 (18S) | OQ738604 (COI);
 identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine
 Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20;
 identificationRemarks: identified by DNA and morphology; language: en; institutionCode:
 NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord:
 PreservedSpecimen; occurrenceID: C28A4742-08BA-53DB-8CEB-CBBE8834F4E9

Diagnosis: Damaged specimen (Fig. 29) consistent with placement within family Cirratulidae, based on morphology and DNA.



Figure 29. [doi](#)

Cirratulidae sp. (NHM_2093), anterior end of live specimen NHM_2093 in lateral view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Cirratulidae sp. (NHM_2163)

Materials

- a. scientificName: Cirratulidae; taxonConceptID: Cirratulidae sp. (NHM_2163); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Area of Particular Interest APEI-6; verbatimLocality: APEI-6; maximumDepthInMeters: 4026; locationRemarks: Deployment EB13; at Station APEI; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 19 27.874; verbatimLongitude: 120 01.525; decimalLatitude: 19.46457; decimalLongitude: -120.02542; geodeticDatum: WGS84; eventID: APEI6_AB02_EB13; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-20; eventTime: 16:12; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.353; recordNumber: NHM_2163; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126737; associatedSequences: OQ746759 (16S) | OQ746911 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName:

- ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 89A2C19A-FE0A-5EA4-86BE-63223A93E843
- b. scientificName: Cirratulidae; taxonConceptID: Cirratulidae sp. (NHM_2163); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4094; locationRemarks: Deployment EB11; at Station S10; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°02.49'; verbatimLongitude: 117°13.03'; decimalLatitude: 12.0415; decimalLongitude: -117.21717; geodeticDatum: WGS84; eventID: OMS1_AB02_EB11; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-13; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.352; recordNumber: NHM_1877; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126220; associatedSequences: OQ746727 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 11DC1AF6-B86B-5EF8-A220-94D3C9A0FD89
- c. scientificName: Cirratulidae; taxonConceptID: Cirratulidae sp. (NHM_2163); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4045; locationRemarks: Deployment EB10; at Station S7; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°10.43'; verbatimLongitude: 117°11.57'; decimalLatitude: 12.17383; decimalLongitude: -117.19283; geodeticDatum: WGS84; eventID: OMS1_AB02_EB10; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-11; eventTime: 22:49; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.351; recordNumber: NHM_1782; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126163; associatedSequences: OQ746719 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: C60BBE56-41FC-5183-8C71-76F697D875F3
- d. scientificName: Cirratulidae; taxonConceptID: Cirratulidae sp. (NHM_2163); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93'; verbatimLongitude: 117°09.87'; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84;

eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.350; recordNumber: NHM_1096; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126568; associatedSequences: OQ746617 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 3BA57B19-53ED-51F9-9CC8-46117685CA8C

Diagnosis: Damaged specimens (Fig. 30) consistent with placement within family Cirratulidae, based on morphology and DNA.



Figure 30. [doi](#)
Cirratulidae sp. (NHM_2163), anterior end of live specimen NHM_1096 in dorsal view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Cirratulidae sp. (NHM_172)

Materials

- a. scientificName: Cirratulidae; taxonConceptID: Cirratulidae (NHM_172); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from supra net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.342; recordNumber: NHM_2309; recordedBy: Adrian Glover |

Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; associatedSequences: OQ746771 (16S) | OQ738611 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: BE172C52-935C-5BA3-BAE1-F0711A206E15

- b. scientificName: Cirratulidae; taxonConceptID: Cirratulidae (NHM_172); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4045; locationRemarks: Deployment EB10; at Station S7; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°10.43; verbatimLongitude: 117°11.57; decimalLatitude: 12.17383; decimalLongitude: -117.19283; geodeticDatum: WGS84; eventID: OMS1_AB02_EB10; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-11; eventTime: 22:49; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.341; recordNumber: NHM_1772; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126212; associatedSequences: OQ746716 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: DF4DBD4A-8905-5F96-958D-48DD2A9AD350
- c. scientificName: Cirratulidae; taxonConceptID: Cirratulidae (NHM_172); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63; decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.340; recordNumber: NHM_0915E; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126571; associatedSequences: OQ746580 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 5ACA0F65-7843-5AC6-B52F-4C8349B3CCB9
- d. scientificName: Cirratulidae; taxonConceptID: Cirratulidae (NHM_172); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific;

stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4082; locationRemarks: Deployment EB03; at Station D; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°56.089; verbatimLongitude: 116°33.011; decimalLatitude: 13.93482; decimalLongitude: -116.55018; geodeticDatum: WGS84; eventID: UK1_AB01_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2013-10-13; eventTime: 12:40; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.339; recordNumber: NHM_0172; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127326; associatedSequences: OQ746483 (16S) | OQ746804 (18S) | OQ738504 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 957BB35B-29D6-59FC-92E1-741291447C68

Diagnosis: Damaged specimens (Fig. 31) consistent with placement within family Cirratulidae, based on morphology and DNA.



Figure 31. [doi](#)

Cirratulidae sp. (NHM_172), anterior end of live specimen NHM_172.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Cirratulidae sp. (NHM_165)

Material

- a. scientificName: Cirratulidae; taxonConceptID: Cirratulidae sp. (NHM_165); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration

area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4084; locationRemarks: Deployment BC06; at Station D; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°57.794; verbatimLongitude: 116°34.093; decimalLatitude: 13.96323; decimalLongitude: -116.56822; geodeticDatum: WGS84; eventID: UK1_AB01_BC06; samplingProtocol: USNEL Box Core; eventDate: 2013-10-12; eventTime: 23:01:00; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.348; recordNumber: NHM_0165; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127361; associatedSequences: OQ746481 (16S) | OQ746803 (18S) | OQ738503 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: F675AF2E-B016-54ED-B577-64CB2B52489B

Diagnosis: Damaged specimen (Fig. 32) consistent with placement within family Cirratulidae, based on morphology and DNA.



Figure 32. [doi](#)

Cirratulidae sp. (NHM_165), anterior end of live specimen NHM_165.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Cirratulidae sp. (NHM_340)

Materials

- a. scientificName: Cirratulidae; taxonConceptID: Cirratulidae sp. (NHM_340); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration

area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63; decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.360; recordNumber: NHM_0911; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126788; associatedSequences: OQ746576 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 3FC55FCC-FB4F-5192-8F37-E6785857B365

- b. scientificName: Cirratulidae; taxonConceptID: Cirratulidae sp. (NHM_340); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4082; locationRemarks: Deployment EB03; at Station D; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°56.089; verbatimLongitude: 116°33.011; decimalLatitude: 13.93482; decimalLongitude: -116.55018; geodeticDatum: WGS84; eventID: UK1_AB01_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2013-10-13; eventTime: 12:40; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.357; recordNumber: NHM_0184; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127302; associatedSequences: OQ746806 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 3FBCA88D-028A-5A31-9CE3-7CB2BDBCA756
- c. scientificName: Cirratulidae; taxonConceptID: Cirratulidae sp. (NHM_340); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4500; locationRemarks: Deployment BC12; at Station K; from R/V Melville Cruise no. MV1313; decimalLatitude: 13.86328; decimalLongitude: -116.54885; geodeticDatum: WGS84; eventID: UK1_AB01_BC12; samplingProtocol: USNEL Box Core; eventDate: 2013-10-20; eventTime: 03:39; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: DNA voucher stored in buffer; recordNumber: NHM_0403; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127303; associatedSequences: OQ746508 (16S) | OQ746825 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan |

- Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 9FF5C1EE-9345-50F1-9F2B-D00BCCF5D7CB
- d. scientificName: Cirratulidae; taxonConceptID: Cirratulidae sp. (NHM_340); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4011; locationRemarks: Deployment RV06; at Station K; from R/V Melville Cruise no. MV1313; decimalLatitude: 13.86367; decimalLongitude: -116.54432; geodeticDatum: WGS84; eventID: UK1_AB01_RV06; samplingProtocol: Remotely Operated Vehicle; eventDate: 2013-10-20; eventTime: 10:32; habitat: Abyssal plain; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.359; recordNumber: NHM_0432; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127301; associatedSequences: OQ746517 (16S) | OQ746833 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 151A87F8-AA16-585C-B2D9-7E17E8C45C39
- e. scientificName: Cirratulidae; taxonConceptID: Cirratulidae sp. (NHM_340); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4111; locationRemarks: Deployment MC08; at Station I; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°45.700; verbatimLongitude: 116°27.620; decimalLatitude: 13.76167; decimalLongitude: -116.46033; geodeticDatum: WGS84; eventID: UK1_AB01_MC08; samplingProtocol: Multi Corer; eventDate: 2013-10-18; eventTime: 15:54; habitat: Abyssal plain; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.358; recordNumber: NHM_0340; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127360; associatedSequences: OQ746499 (16S) | OQ746817 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: AB0DE221-4514-5D34-979F-D3ABE4D8D7D8

Diagnosis: Complete (Fig. 33) and damaged specimens consistent with placement within family Cirratulidae, based on morphology and DNA.



Figure 33. [doi](#)

Cirratulidae sp. (NHM_340), live specimen NHM_340 in lateral view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Cirratulidae sp. (NHM_269)

Materials

- a. scientificName: Cirratulidae; taxonConceptID: Cirratulidae sp. (NHM_269); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4233; locationRemarks: Deployment EB09; at Station U1; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°21.81; verbatimLongitude: 116°40.86; decimalLatitude: 12.3635; decimalLongitude: -116.681; geodeticDatum: WGS84; eventID: UK1_AB02_EB09; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-10; eventTime: 10:46; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.356; recordNumber: NHM_1652; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126218; associatedSequences: OQ746700 (16S) | OQ738595 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: C511CA51-DCD7-5E5A-8E66-27A63B6CB7C9
- b. scientificName: Cirratulidae; taxonConceptID: Cirratulidae sp. (NHM_269); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4163;

- locationRemarks: Deployment BC13; at Station J; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°54.099; verbatimLongitude: 116°35.400; decimalLatitude: 13.90165; decimalLongitude: -116.59; geodeticDatum: WGS84; eventID: UK1_AB01_BC13; samplingProtocol: USNEL Box Core; eventDate: 2013-10-21; eventTime: 13:27; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.355; recordNumber: NHM_0460; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127366; associatedSequences: OQ746522 (16S) | OQ746838 (18S) | OQ738522 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 79C78F68-E7ED-5E7C-9C95-ADF37F299F8D
- c. scientificName: Cirratulidae; taxonConceptID: Cirratulidae sp. (NHM_269); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4128; locationRemarks: Deployment EB04; at Station G-I; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°45.21N; verbatimLongitude: 116°29.12W; decimalLatitude: 13.75583; decimalLongitude: -116.48667; geodeticDatum: WGS84; eventID: UK1_AB01_EB04; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2013-10-17; eventTime: 01:50; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.354; recordNumber: NHM_0269; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127320; associatedSequences: OQ746491 (16S) | OQ746810 (18S) | OQ738509 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: CBB19F81-1000-562E-B34C-2B7D3FBEF4F9
- d. scientificName: Cirratulidae; taxonConceptID: Cirratulidae sp. (NHM_269); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Cirratulidae; taxonRank: family; scientificNameAuthorship: Ryckholt, 1851; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4110; locationRemarks: Deployment BC09; at Station G; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°45.726; verbatimLongitude: 116°27.825; decimalLatitude: 13.7621; decimalLongitude: -116.46375; geodeticDatum: WGS84; eventID: UK1_AB01_BC09; samplingProtocol: USNEL Box Core; eventDate: 2013-10-17; eventTime: 13:40; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: DNA voucher stored in buffer; recordNumber: NHM_0305; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127386; associatedSequences: OQ746495 (16S) | OQ746814 (18S) | OQ738513 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart;

dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology;
 language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName:
 ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID:
 97124115-6305-55D9-902D-141A70D7D67C

Diagnosis: Damaged specimens (Fig. 34) consistent with placement within family Cirratulidae, based on morphology and DNA.



Figure 34. [doi](#)

Cirratulidae sp. (NHM_269), anterior end of live specimen NHM_1652 in ventrolateral view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Flabelligeridae de Saint-Joseph, 1894

Flabelligeridae sp. (NHM_555)

Material

- a. scientificName: Flabelligeridae; taxonConceptID: Flabelligeridae sp. (NHM_555); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Flabelligeridae; taxonRank: family; scientificNameAuthorship: de Saint-Joseph, 1894; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4202; locationRemarks: Deployment EB01; at Station U2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°23.17456; verbatimLongitude: 116°32.92021; decimalLatitude: 12.38624; decimalLongitude: -116.54867; geodeticDatum: WGS84; eventID: UK1_AB02_EB01; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-17; eventTime: 05:15; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.378; recordNumber:

NHM_0555; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126722; associatedSequences: OQ746527 (16S) | OQ738526 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: A46BF556-5580-514D-BB28-98664A740171

Diagnosis: Damaged specimen (Fig. 35) consistent with placement within family Flabelligeridae, based on morphology and DNA.



Figure 35. [doi](#)

Flabelligeridae sp. (NHM_555), live specimen NHM_555.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Flabelligeridae sp. (NHM_630A)

Material

- a. scientificName: Flabelligeridae; taxonConceptID: Flabelligeridae sp. (NHM_630A); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Flabelligeridae; taxonRank: family; scientificNameAuthorship: de Saint-Joseph, 1894; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4202; locationRemarks: Deployment EB01; at Station U2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°23.17456; verbatimLongitude: 116°32.92021; decimalLatitude: 12.38624; decimalLongitude: -116.54867; geodeticDatum: WGS84; eventID: UK1_AB02_EB01; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-17; eventTime: 05:15; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_0630A; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers:

0109405359 | 0174126598; associatedSequences: OQ746536 (16S) | OQ746848 (18S) | OQ738530 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; datedIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: A038CEEE-DD5D-5CB5-9E2B-BBE04CA01D22

Diagnosis: Fragmented specimen (Fig. 36) consistent with placement within family Flabelligeridae, based on morphology and DNA.



Figure 36. [doi](#)

Flabelligeridae sp. (NHM_630A), fragmented live specimen NHM_630A.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Flabelligeridae sp. (NHM_738)

Materials

- a. scientificName: Flabelligeridae; taxonConceptID: Flabelligeridae sp. (NHM_738); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Flabelligeridae; taxonRank: family; scientificNameAuthorship: de Saint-Joseph, 1894; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.380; recordNumber: NHM_1157; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126783; associatedSequences: OQ746626 (16S);

- identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20;
 identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: F8E5E6FB-486C-55ED-AA3F-1EE13027E262
- b. scientificName: Flabelligeridae; taxonConceptID: Flabelligeridae sp. (NHM_738);
 kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Flabelligeridae; taxonRank: family; scientificNameAuthorship: de Saint-Joseph, 1894;
 waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A;
 maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93;
 verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645;
 geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain;
 fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1;
 preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.381; recordNumber: NHM_1158; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126776; associatedSequences: OQ746627 (16S) | OQ746876 (18S) | OQ738562 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart;
 dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 43E0796C-723E-5CC4-8FBB-15FE98659B69
- c. scientificName: Flabelligeridae; taxonConceptID: Flabelligeridae sp. (NHM_738);
 kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Flabelligeridae; taxonRank: family; scientificNameAuthorship: de Saint-Joseph, 1894;
 waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B;
 maximumDepthInMeters: 4425; locationRemarks: Deployment EB02; at Station U5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°32.23;
 verbatimLongitude: 116°36.25; decimalLatitude: 12.53717; decimalLongitude: -116.60417;
 geodeticDatum: WGS84; eventID: UK1_AB02_EB02; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-20; eventTime: 06:24; habitat: Abyssal plain;
 fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1;
 preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.379; recordNumber: NHM_0738; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126732; associatedSequences: OQ746546 (16S);
 identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20;
 identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 6CB261ED-082E-5DF0-8815-4213709237FB

Diagnosis: Damaged specimens (Fig. 37) consistent with placement within family Flabelligeridae, based on morphology and DNA.



Figure 37. [doi](#)

Flabelligeridae sp. (NHM_738), anterior fragment of live specimen NHM_738.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Flabelligeridae sp. (NHM_955)

Materials

- a. scientificName: Flabelligeridae; taxonConceptID: Flabelligeridae sp. (NHM_955); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Flabelligeridae; taxonRank: family; scientificNameAuthorship: de Saint-Joseph, 1894; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44'; verbatimLongitude: 117°18.13'; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.384; recordNumber: NHM_1300; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126802; associatedSequences: OQ746653 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 6E5706B1-5A36-52CE-ADC2-B69545A5A27A
- b. scientificName: Flabelligeridae; taxonConceptID: Flabelligeridae sp. (NHM_955); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Flabelligeridae; taxonRank: family; scientificNameAuthorship: de Saint-Joseph, 1894; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A;

- maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.385; recordNumber: NHM_1314; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126753; associatedSequences: OQ746657 (16S) | OQ746888 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: EA029561-EE52-513B-8E99-8F0C30FABC0C
- c. scientificName: Flabelligeridae; taxonConceptID: Flabelligeridae sp. (NHM_955); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Flabelligeridae; taxonRank: family; scientificNameAuthorship: de Saint-Joseph, 1894; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.386; recordNumber: NHM_1347E; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126288; associatedSequences: OQ746665 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 9E399991-6BF4-55A8-A427-52299B077484
- d. scientificName: Flabelligeridae; taxonConceptID: Flabelligeridae sp. (NHM_955); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Flabelligeridae; taxonRank: family; scientificNameAuthorship: de Saint-Joseph, 1894; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4045; locationRemarks: Deployment EB10; at Station S7; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°10.43; verbatimLongitude: 117°11.57; decimalLatitude: 12.17383; decimalLongitude: -117.19283; geodeticDatum: WGS84; eventID: OMS1_AB02_EB10; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-11; eventTime: 22:49; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.388; recordNumber: NHM_1761A; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126754; associatedSequences:

- OQ746711 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; datedIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 222C7412-0FF9-53D4-8659-5715ADD19A11
- e. scientificName: Flabelligeridae; taxonConceptID: Flabelligeridae sp. (NHM_955); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Flabelligeridae; taxonRank: family; scientificNameAuthorship: de Saint-Joseph, 1894; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4045; locationRemarks: Deployment EB10; at Station S7; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°10.43; verbatimLongitude: 117°11.57; decimalLatitude: 12.17383; decimalLongitude: -117.19283; geodeticDatum: WGS84; eventID: OMS1_AB02_EB10; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-11; eventTime: 22:49; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.387; recordNumber: NHM_1761B; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; associatedSequences: OQ746712 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; datedIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: BDADCC75-028E-54FC-805E-0CFC01048EDD
- f. scientificName: Flabelligeridae; taxonConceptID: Flabelligeridae sp. (NHM_955); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Flabelligeridae; taxonRank: family; scientificNameAuthorship: de Saint-Joseph, 1894; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.383; recordNumber: NHM_1164A; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126608; associatedSequences: OQ746631 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; datedIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: B5AE6B54-D5BB-51AF-AE0A-7D16BC46E15B
- g. scientificName: Flabelligeridae; taxonConceptID: Flabelligeridae sp. (NHM_955); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Flabelligeridae; taxonRank: family; scientificNameAuthorship: de Saint-Joseph, 1894; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B;

maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63; decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.382; recordNumber: NHM_0955; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126805; associatedSequences: OQ746596 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 8E9DD864-1311-5A0E-BC52-F7AB9D53EAEC

Diagnosis: Damaged specimens (Fig. 38) consistent with placement within family Flabelligeridae, based on morphology and DNA.

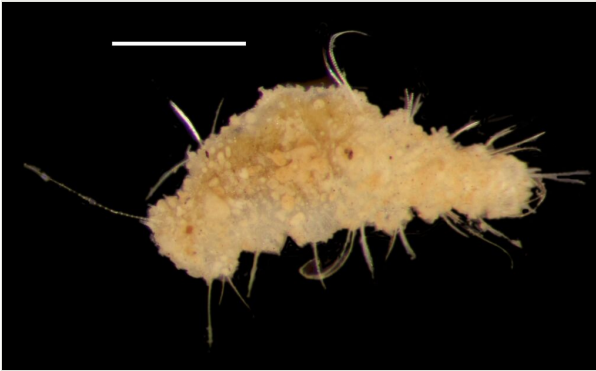


Figure 38. [doi](#)

Flabelligeridae sp. (NHM_955), fragment of live specimen NHM_955. Scale bar 1 mm.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Flabelligeridae sp. (NHM_1274)

Materials

- a. scientificName: Flabelligeridae; taxonConceptID: Flabelligeridae sp. (NHM_1274); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Flabelligeridae; taxonRank: family; scientificNameAuthorship: de Saint-Joseph, 1894; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke

- Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.371; recordNumber: NHM_1274; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126759; associatedSequences: OQ746651 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 58A621C8-6E87-5A1A-B662-1AC206417E3B
- b. scientificName: Flabelligeridae; taxonConceptID: Flabelligeridae sp. (NHM_1274); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Flabelligeridae; taxonRank: family; scientificNameAuthorship: de Saint-Joseph, 1894; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4137; locationRemarks: Deployment EB07; at Station U7; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°27.26; verbatimLongitude: 116°36.77; decimalLatitude: 12.45433; decimalLongitude: -116.61283; geodeticDatum: WGS84; eventID: UK1_AB02_EB07; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-03; eventTime: 20:40; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.372; recordNumber: NHM_1453; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126778; associatedSequences: OQ746682 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: F9719B4E-3067-5C78-B007-22F3A824400C

Diagnosis: Damaged specimens (Fig. 39) consistent with placement within family Flabelligeridae, based on morphology and DNA.



Figure 39. [doi](#)

Flabelligeridae sp. (NHM_1274), fragment of a live specimen NHM_1274.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Flabelligeridae sp. (NHM_1313)

Materials

- a. scientificName: Flabelligeridae; taxonConceptID: Flabelligeridae sp. (NHM_1313); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Flabelligeridae; taxonRank: family; scientificNameAuthorship: de Saint-Joseph, 1894; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.373; recordNumber: NHM_1313; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126752; associatedSequences: OQ746656 (16S) | OQ746887 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 682122FA-68C2-5C9C-A37F-258BB9EAB154
- b. scientificName: Flabelligeridae; taxonConceptID: Flabelligeridae sp. (NHM_1313); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Flabelligeridae; taxonRank: family; scientificNameAuthorship: de Saint-Joseph, 1894; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4045; locationRemarks: Deployment EB10; at Station S7; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°10.43; verbatimLongitude: 117°11.57; decimalLatitude: 12.17383; decimalLongitude: -117.19283; geodeticDatum: WGS84; eventID: OMS1_AB02_EB10; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-11; eventTime: 22:49; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.374; recordNumber: NHM_1742; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126757; associatedSequences: OQ746710 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 2BB43794-C386-57F0-BB72-097FA4DCB598
- c. scientificName: Flabelligeridae; taxonConceptID: Flabelligeridae sp. (NHM_1313); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Flabelligeridae; taxonRank: family; scientificNameAuthorship: de Saint-Joseph, 1894; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral

Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4045; locationRemarks: Deployment EB10; at Station S7; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°10.43; verbatimLongitude: 117°11.57; decimalLatitude: 12.17383; decimalLongitude: -117.19283; geodeticDatum: WGS84; eventID: OMS1_AB02_EB10; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-11; eventTime: 22:49; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.375; recordNumber: NHM_1761; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126733; associatedSequences: OQ746713 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 158AE3DC-BC9A-5F16-8D16-7C584946EFDE

Diagnosis: Damaged specimens (Fig. 40) consistent with placement within family Flabelligeridae, based on morphology and DNA.



Figure 40. [doi](#)

Flabelligeridae sp. (NHM_1313), fragment of live specimen NHM_1742.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Flabelligeridae sp. (NHM_1638)

Materials

- a. scientificName: Flabelligeridae; taxonConceptID: Flabelligeridae sp. (NHM_1638); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Flabelligeridae; taxonRank: family; scientificNameAuthorship: de Saint-Joseph, 1894; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke

- Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.376; recordNumber: NHM_1175; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126609; associatedSequences: OQ746638 (16S) | OQ738568 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 4FC4A494-6B5F-5BC4-AFE4-F459ED1141D6
- b. scientificName: Flabelligeridae; taxonConceptID: Flabelligeridae sp. (NHM_1638); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Flabelligeridae; taxonRank: family; scientificNameAuthorship: de Saint-Joseph, 1894; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4233; locationRemarks: Deployment EB09; at Station U1; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°21.81; verbatimLongitude: 116°40.86; decimalLatitude: 12.3635; decimalLongitude: -116.681; geodeticDatum: WGS84; eventID: UK1_AB02_EB09; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-10; eventTime: 10:46; habitat: Abyssal plain; fieldNotes: Collected from supra net (on the epibenthic sledge); individualCount: 1; preparations: DNA voucher stored in buffer; recordNumber: NHM_1638; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126743; associatedSequences: OQ746699 (16S) | OQ746895 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: C86053A5-3549-500C-8D83-0E316CD9503C

Diagnosis: Complete (Fig. 41) specimens consistent with placement within family Flabelligeridae, based on morphology and DNA.



Figure 41. [doi](#)

Flabelligeridae sp. (NHM_1638), live specimen NHM_1638 in lateral view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Flabelligeridae sp. (NHM_2124)

Material

- a. scientificName: Flabelligeridae; taxonConceptID: Flabelligeridae sp. (NHM_2124); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Flabelligeridae; taxonRank: family; scientificNameAuthorship: de Saint-Joseph, 1894; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Area of Particular Interest APEI-6; verbatimLocality: APEI-6; maximumDepthInMeters: 4026; locationRemarks: Deployment EB13; at Station APEI; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 19 27.874; verbatimLongitude: 120 01.525; decimalLatitude: 19.46457; decimalLongitude: -120.02542; geodeticDatum: WGS84; eventID: APEI6_AB02_EB13; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-20; eventTime: 16:12; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.377; recordNumber: NHM_2124; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126785; associatedSequences: OQ746758 (16S) | OQ746910 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 65471A5A-BF8F-531E-8EAF-EBF17725864A

Diagnosis: Damaged specimen (Fig. 42) consistent with placement within family Flabelligeridae, based on morphology and DNA.



Figure 42. [doi](#)

Flabelligeridae sp. (NHM_2124), anterior end of live specimen NHM_2124.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Flabelligeridae sp. (NHM_045)**Materials**

- a. scientificName: Flabelligeridae; taxonConceptID: Flabelligeridae sp. (NHM_045); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Flabelligeridae; taxonRank: family; scientificNameAuthorship: de Saint-Joseph, 1894; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.370; recordNumber: NHM_1159; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126729; associatedSequences: OQ746628 (16S) | OQ746877 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 471CC6E7-2909-54B5-81D6-62696C67F3AC
- b. scientificName: Flabelligeridae; taxonConceptID: Flabelligeridae sp. (NHM_045); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Flabelligeridae; taxonRank: family; scientificNameAuthorship: de Saint-Joseph, 1894; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63; decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.369; recordNumber: NHM_0945B; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126557; associatedSequences: OQ746593 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 22DA3FC9-7E47-587E-9B9A-62AF954556FD
- c. scientificName: Flabelligeridae; taxonConceptID: Flabelligeridae sp. (NHM_045); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Flabelligeridae; taxonRank: family; scientificNameAuthorship: de Saint-Joseph, 1894; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4336; locationRemarks: Deployment EB01; at Station B-K-E; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°50.232; verbatimLongitude:

116°33.506; decimalLatitude: 13.8372; decimalLongitude: -116.55843; geodeticDatum: WGS84; eventID: UK1_AB01_EB01; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2013-10-09; eventTime: 10:26; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_0045; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0109405385 | 0174127317; associatedSequences: OQ746471 (16S) | OQ746794 (18S) | OQ738497 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: E3E86B41-80A1-58ED-A8E8-F52BC0E24356

Diagnosis: Damaged specimens (Fig. 43) consistent with placement within family Flabelligeridae, based on morphology and DNA.

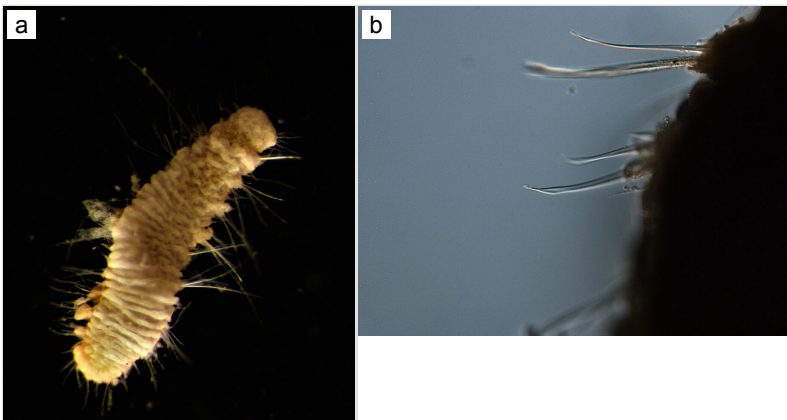


Figure 43.

Flabelligeridae sp. (NHM_045).

a: Fragment of a live specimen NHM_045; [doi](#)

b: Example of chaetae from specimen NHM_045. [doi](#)

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Glyceridae Grube, 1850

Glyceridae sp. (NHM_207)

Materials

- a. scientificName: Glyceridae; taxonConceptID: Glyceridae sp. (NHM_207); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Glyceridae; taxonRank: family; scientificNameAuthorship: Grube, 1850; waterBody: Pacific;

- stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.402; recordNumber: NHM_1304; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126589; associatedSequences: OQ746655 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 4DF24331-BABA-5C73-BE1C-1E5EDDA696FA
- b. scientificName: Glyceridae; taxonConceptID: Glyceridae sp. (NHM_207); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Glyceridae; taxonRank: family; scientificNameAuthorship: Grube, 1850; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4114; locationRemarks: Deployment BC08; at Station S3; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°10.868; verbatimLongitude: 117°15.659; decimalLatitude: 12.18113; decimalLongitude: -117.26098; geodeticDatum: WGS84; eventID: OMS1_AB02_BC08; samplingProtocol: USNEL Box Core; eventDate: 2015-02-25; eventTime: 05:58; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.400; recordNumber: NHM_1046; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126545; associatedSequences: OQ746609 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: C704599C-75E7-52BE-B4F5-29E15EE2FE38
- c. scientificName: Glyceridae; taxonConceptID: Glyceridae sp. (NHM_207); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Glyceridae; taxonRank: family; scientificNameAuthorship: Grube, 1850; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.401; recordNumber: NHM_1070; recordedBy: Adrian Glover |

Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126616; associatedSequences: OQ746611 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: CD4F9EDE-2338-5BFE-95EA-2F3FF00612BD

- d. scientificName: Glyceridae; taxonConceptID: Glyceridae sp. (NHM_207); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Glyceridae; taxonRank: family; scientificNameAuthorship: Grube, 1850; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4218; locationRemarks: Deployment BC05; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.742; verbatimLongitude: 116°43.427; decimalLatitude: 12.57903; decimalLongitude: -116.72378; geodeticDatum: WGS84; eventID: UK1_AB02_BC05; samplingProtocol: USNEL Box Core; eventDate: 2015-02-21; eventTime: 16:23; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.397; recordNumber: NHM_0844; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126548; associatedSequences: OQ746566 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 14402E39-7C23-5737-BFE5-EDEB1D99F6DD
- e. scientificName: Glyceridae; taxonConceptID: Glyceridae sp. (NHM_207); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Glyceridae; taxonRank: family; scientificNameAuthorship: Grube, 1850; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4218; locationRemarks: Deployment BC05; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.742; verbatimLongitude: 116°43.427; decimalLatitude: 12.57903; decimalLongitude: -116.72378; geodeticDatum: WGS84; eventID: UK1_AB02_BC05; samplingProtocol: USNEL Box Core; eventDate: 2015-02-21; eventTime: 16:23; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.398; recordNumber: NHM_0845; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126531; associatedSequences: OQ746567 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 29FA9BCC-0517-5E66-B9F7-F85BB431B7A6
- f. scientificName: Glyceridae; taxonConceptID: Glyceridae sp. (NHM_207); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Glyceridae; taxonRank: family; scientificNameAuthorship: Grube, 1850; waterBody: Pacific;

- stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4182; locationRemarks: Deployment EB05; at Station H-J; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°55.984; verbatimLongitude: 116°42.977; decimalLatitude: 13.93307; decimalLongitude: -116.72378; geodeticDatum: WGS84; eventID: UK1_AB01_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2013-10-19; eventTime: 12:16; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.393; recordNumber: NHM_0359; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127371; associatedSequences: OQ746504 (16S) | OQ746821 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 15B194EF-91DB-5DFA-AEFE-4425B8C759E5
- g. scientificName: Glyceridae; taxonConceptID: Glyceridae sp. (NHM_207); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Glyceridae; taxonRank: family; scientificNameAuthorship: Grube, 1850; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4150; locationRemarks: Deployment BC11; at Station H; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°53.300; verbatimLongitude: 116°41.399; decimalLatitude: 13.88833; decimalLongitude: -116.68998; geodeticDatum: WGS84; eventID: UK1_AB01_BC11; samplingProtocol: USNEL Box Core; eventDate: 2013-10-19; eventTime: 02:25; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.392; recordNumber: NHM_0349; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127388; associatedSequences: OQ746502 (16S) | OQ746820 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 0E0FD453-EC04-57E1-84AD-56A265ED93D7
- h. scientificName: Glyceridae; taxonConceptID: Glyceridae sp. (NHM_207); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Glyceridae; taxonRank: family; scientificNameAuthorship: Grube, 1850; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4233; locationRemarks: Deployment EB09; at Station U1; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°21.81; verbatimLongitude: 116°40.86; decimalLatitude: 12.3635; decimalLongitude: -116.681; geodeticDatum: WGS84; eventID: UK1_AB02_EB09; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-10; eventTime: 10:46; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.403; recordNumber: NHM_1658; recordedBy: Adrian Glover |

Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126213; associatedSequences: OQ746703 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 30E12C58-483A-50F8-8139-B4F2EC43041F

- i. scientificName: Glyceridae; taxonConceptID: Glyceridae sp. (NHM_207); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Glyceridae; taxonRank: family; scientificNameAuthorship: Grube, 1850; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63; decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.399; recordNumber: NHM_0906; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126604; associatedSequences: OQ746575 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 02F11B3B-5F65-5DE5-BBF7-92A41DAAF159
- j. scientificName: Glyceridae; taxonConceptID: Glyceridae sp. (NHM_207); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Glyceridae; taxonRank: family; scientificNameAuthorship: Grube, 1850; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4425; locationRemarks: Deployment EB02; at Station U5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°32.23; verbatimLongitude: 116°36.25; decimalLatitude: 12.53717; decimalLongitude: -116.60417; geodeticDatum: WGS84; eventID: UK1_AB02_EB02; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-20; eventTime: 06:24; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.395; recordNumber: NHM_0704; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126529; associatedSequences: OQ746542 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: CA9FCD73-B060-5D6A-A1A9-C9D5BA4EC691
- k. scientificName: Glyceridae; taxonConceptID: Glyceridae sp. (NHM_207); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Glyceridae; taxonRank: family; scientificNameAuthorship: Grube, 1850; waterBody: Pacific;

stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4425; locationRemarks: Deployment EB02; at Station U5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°32.23; verbatimLongitude: 116°36.25; decimalLatitude: 12.53717; decimalLongitude: -116.60417; geodeticDatum: WGS84; eventID: UK1_AB02_EB02; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-20; eventTime: 06:24; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.396; recordNumber: NHM_0752; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126573; associatedSequences: OQ746552 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 341CF4EF-9BE7-5996-8CB6-FD57F39E4531

- l. scientificName: Glyceridae; taxonConceptID: Glyceridae sp. (NHM_207); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Glyceridae; taxonRank: family; scientificNameAuthorship: Grube, 1850; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4163; locationRemarks: Deployment BC13; at Station J; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°54.099; verbatimLongitude: 116°35.400; decimalLatitude: 13.90165; decimalLongitude: -116.59; geodeticDatum: WGS84; eventID: UK1_AB01_BC13; samplingProtocol: USNEL Box Core; eventDate: 2013-10-21; eventTime: 13:27; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.394; recordNumber: NHM_0445; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127364; associatedSequences: OQ746520 (16S) | OQ746836 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 96B6D0BA-0B0A-511D-837B-9681A6CB94A8

- m. scientificName: Glyceridae; taxonConceptID: Glyceridae sp. (NHM_207); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Glyceridae; taxonRank: family; scientificNameAuthorship: Grube, 1850; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4054; locationRemarks: Deployment BC07; at Station E; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°49.447; verbatimLongitude: 116°32.055; decimalLatitude: 13.82412; decimalLongitude: -116.53425; geodeticDatum: WGS84; eventID: UK1_AB01_BC07; samplingProtocol: USNEL Box Core; eventDate: 2013-10-14; eventTime: 21:37; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.391; recordNumber: NHM_0207; recordedBy: Adrian Glover | Helena Wiklund |

Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127298; associatedSequences: OQ746486 (16S) | OQ746807 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 03F29E22-E422-506E-8A95-1C6E4966D1F3

Diagnosis: Damaged specimen (Fig. 44) consistent with placement within family Glyceridae, based on morphology and DNA.



Figure 44. [doi](#)

Glyceridae sp. (NHM_207), anterior end of live specimen NHM_359 with extended proboscis.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Glyceridae sp. (NHM_1242)

Materials

- a. scientificName: Glyceridae; taxonConceptID: Glyceridae sp. (NHM_1242); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Glyceridae; taxonRank: family; scientificNameAuthorship: Grube, 1850; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-

- denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.389; recordNumber: NHM_1242; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126782; associatedSequences: OQ746644 (16S) | OQ746883 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: CCBEDF76-C1E5-5A1C-9CAF-233DE8F83D2C
- b. scientificName: Glyceridae; taxonConceptID: Glyceridae sp. (NHM_1242); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Glyceridae; taxonRank: family; scientificNameAuthorship: Grube, 1850; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_1348D; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0109405381 | 0174126612; associatedSequences: OQ746667 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 0D6FBE6A-270D-58F9-9082-A16B5D730676
- c. scientificName: Glyceridae; taxonConceptID: Glyceridae sp. (NHM_1242); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Glyceridae; taxonRank: family; scientificNameAuthorship: Grube, 1850; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4136; locationRemarks: Deployment BC18; at Station U12; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°25.195; verbatimLongitude: 116°37.477; decimalLatitude: 12.41992; decimalLongitude: -116.62462; geodeticDatum: WGS84; eventID: UK1_AB02_BC18; samplingProtocol: USNEL Box Core; eventDate: 2015-03-07; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.390; recordNumber: NHM_1579; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126777; associatedSequences: OQ746696 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: CBF3AD4C-376E-508C-934D-FE55368605E3

Diagnosis: Damaged specimens (Fig. 45) consistent with placement within family Glyceridae, based on morphology and DNA.



Figure 45. [doi](#)

Glyceridae sp. (NHM_1242), anterior fragment of live specimen NHM_1242 in lateral view with extended proboscis.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Glyceridae sp. (NHM_2089)

Materials

- a. scientificName: Glyceridae; taxonConceptID: Glyceridae sp. (NHM_2089); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Glyceridae; taxonRank: family; scientificNameAuthorship: Grube, 1850; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Area of Particular Interest APEI-6; verbatimLocality: APEI-6; maximumDepthInMeters: 4026; locationRemarks: Deployment EB13; at Station APEI; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 19 27.874; verbatimLongitude: 120 01.525; decimalLatitude: 19.46457; decimalLongitude: -120.02542; geodeticDatum: WGS84; eventID: APEI6_AB02_EB13; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-20; eventTime: 16:12; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.404; recordNumber: NHM_2089; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126773; associatedSequences: OQ746748 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology;

- language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 09E6B5BB-7E7B-57D4-B765-B41C2DF7D37B
- b. scientificName: Glyceridae; taxonConceptID: Glyceridae sp. (NHM_2089); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Glyceridae; taxonRank: family; scientificNameAuthorship: Grube, 1850; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Area of Particular Interest APEI-6; verbatimLocality: APEI-6; maximumDepthInMeters: 4026; locationRemarks: Deployment EB13; at Station APEI; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 19 27.874; verbatimLongitude: 120 01.525; decimalLatitude: 19.46457; decimalLongitude: -120.02542; geodeticDatum: WGS84; eventID: APEI6_AB02_EB13; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-20; eventTime: 16:12; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.405; recordNumber: NHM_2096; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126738; associatedSequences: OQ746751 (16S) | OQ746904 (18S) | OQ738606 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 42C31FE6-550C-52F2-900D-972C8EEB50F7

Diagnosis: Damaged specimens (Fig. 46) consistent with placement within family Glyceridae, based on morphology and DNA.



Figure 46. [doi](#)

Glyceridae sp. (NHM_2089), anterior fragment of live specimen NHM_2089 in ventral view, with extended proboscis.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Goniadidae Kinberg, 1866

Goniadidae sp. (NHM_1512)

Materials

- a. scientificName: Goniadidae; taxonConceptID: Goniadidae sp. (NHM_1512); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Goniadidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1866; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4094; locationRemarks: Deployment EB11; at Station S10; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°02.49'; verbatimLongitude: 117°13.03'; decimalLatitude: 12.0415; decimalLongitude: -117.21717; geodeticDatum: WGS84; eventID: OMS1_AB02_EB11; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-13; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.407; recordNumber: NHM_1882; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174127334; associatedSequences: OQ746902 (18S) | OQ738601 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 0A082912-7D35-57AC-8AE6-B197F08A41D7
- b. scientificName: Goniadidae; taxonConceptID: Goniadidae sp. (NHM_1512); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Goniadidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1866; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4252; locationRemarks: Deployment EB08; at Station U11; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°30.79'; verbatimLongitude: 116°29.48'; decimalLatitude: 12.51317; decimalLongitude: -116.49133; geodeticDatum: WGS84; eventID: UK1_AB02_EB08; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-05; eventTime: 18:53; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.406; recordNumber: NHM_1512; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174127358; associatedSequences: OQ746893 (18S) | OQ738591 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: E4084B0C-27F0-594B-A27B-AAA5A8DB2187

Diagnosis: Specimens (Fig. 47) consistent with placement within family Goniadidae, based on morphology and DNA.



Figure 47. [doi](#)

Goniadidae sp. (NHM_1512), complete live specimen NHM_1512 in lateral view. Scale bar 2 mm.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Lacydoniidae Bergström, 1914

Lacydoniidae sp. (NHM_898)

Material

- a. scientificName: Lacydoniidae; taxonConceptID: Lacydoniidae sp. (NHM_898); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocta; family: Lacydoniidae; taxonRank: family; scientificNameAuthorship: Bergström, 1914; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63; decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.410; recordNumber: NHM_0898; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126809; associatedSequences: OQ746571 (16S) | OQ746864 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 458871D8-966E-5929-9BFE-57FC6870457B

Diagnosis: Damaged specimen (Fig. 48) consistent with placement within family Lacydoniidae, based on morphology and DNA.



Figure 48. [doi](#)

Lacydoniidae sp. (NHM_898), anterior fragment of live specimen NHM_898 in dorsal view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Lacydoniidae sp. (NHM_1355C)

Material

- a. scientificName: Lacydoniidae; taxonConceptID: Lacydoniidae sp. (NHM_1355C); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Lacydoniidae; taxonRank: family; scientificNameAuthorship: Bergström, 1914; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44'; verbatimLongitude: 117°18.13'; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.408; recordNumber: NHM_1355C; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126216; associatedSequences: OQ746676 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 2DC2F7A6-9898-538F-BCCB-B3D1FF4595EF

Diagnosis: Damaged specimen (Fig. 49) consistent with placement within family Lacydoniidae, based on morphology and DNA.



Figure 49. [doi](#)

Lacydoniidae sp. (NHM_1355C), anterior fragment of live specimen NHM_1355C in dorsal view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Lacydoniidae sp. (NHM_1797D)

Material

- a. scientificName: Lacydoniidae; taxonConceptID: Lacydoniidae sp. (NHM_1797D); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Lacydoniidae; taxonRank: family; scientificNameAuthorship: Bergström, 1914; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4045; locationRemarks: Deployment EB10; at Station S7; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°10.43'; verbatimLongitude: 117°11.57'; decimalLatitude: 12.17383; decimalLongitude: -117.19283; geodeticDatum: WGS84; eventID: OMS1_AB02_EB10; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-11; eventTime: 22:49; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.409; recordNumber: NHM_1797D; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126234; associatedSequences: OQ746722 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 7E3F1A6A-CF53-58BD-B82D-D06F8BD94E0B

Diagnosis: Damaged specimen (Fig. 50) consistent with placement within family Lacydoniidae, based on morphology and DNA.



Figure 50. [doi](#)

Lacydoniidae sp. (NHM_1797D), anterior fragment of live specimen NHM_1797D in dorsal view. Scale bar 1 mm.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Magelonidae Cunningham & Ramage, 1888

Magelonidae sp. (NHM_1340)

Materials

- a. scientificName: Magelonidae; taxonConceptID: Magelonidae sp. (NHM_1340); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Magelonidae; taxonRank: family; scientificNameAuthorship: Cunningham & Ramage, 1888; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44'; verbatimLongitude: 117°18.13'; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.411; recordNumber: NHM_1340; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126312; associatedSequences: OQ746663 (16S) | OQ746891 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks:

- identified by DNA and morphology; language: en; institutionCode: NHMUK;
collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen;
occurrenceID: D7AB891A-A74A-5C3B-BD2B-6784F223AFC3
- b. scientificName: Magelonidae; taxonConceptID: Magelonidae sp. (NHM_1340); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Magelonidae; taxonRank: family; scientificNameAuthorship: Cunningham & Ramage, 1888; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4425; locationRemarks: Deployment EB02; at Station U5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°32.23; verbatimLongitude: 116°36.25; decimalLatitude: 12.53717; decimalLongitude: -116.60417; geodeticDatum: WGS84; eventID: UK1_AB02_EB02; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-20; eventTime: 06:24; habitat: Abyssal plain; fieldNotes: Collected from supra net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.412; recordNumber: NHM_2412; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126151; associatedSequences: OQ746773 (16S) | OQ738612 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 31C68758-3181-5CD6-AC2C-557FEA2B1C3C

Diagnosis: Damaged specimens (Fig. 51) consistent with placement within family Magelonidae, based on morphology and DNA.



Figure 51. [doi](#)

Magelonidae sp. (NHM_1340), fragment of live specimen NHM_1340.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Maldanidae Malmgren, 1867

Maldanidae sp. (NHM_026)

Materials

- a. scientificName: Maldanidae; taxonConceptID: Maldanidae sp. (NHM_026); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Maldanidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1867; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4235; locationRemarks: Deployment EB12; at Station S11; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°03.03; verbatimLongitude: 117°24.28; decimalLatitude: 12.0505; decimalLongitude: -117.40467; geodeticDatum: WGS84; eventID: OMS1_AB02_EB12; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-16; eventTime: 05:30; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: DNA voucher stored in buffer; recordNumber: NHM_2016; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126765; associatedSequences: OQ746744 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 9F9B05E6-6020-5732-9198-93600C04AEEB
- b. scientificName: Maldanidae; taxonConceptID: Maldanidae sp. (NHM_026); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Maldanidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1867; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4235; locationRemarks: Deployment EB12; at Station S11; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°03.03; verbatimLongitude: 117°24.28; decimalLatitude: 12.0505; decimalLongitude: -117.40467; geodeticDatum: WGS84; eventID: OMS1_AB02_EB12; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-16; eventTime: 05:30; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.416; recordNumber: NHM_2021; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126746; associatedSequences: OQ746745 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: E3B5A6BA-8A77-554A-9BBB-C83AFCE4F3AA
- c. scientificName: Maldanidae; taxonConceptID: Maldanidae sp. (NHM_026); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Maldanidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1867; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4235; locationRemarks:

- Deployment EB12; at Station S11; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°03.03; verbatimLongitude: 117°24.28; decimalLatitude: 12.0505; decimalLongitude: -117.40467; geodeticDatum: WGS84; eventID: OMS1_AB02_EB12; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-16; eventTime: 05:30; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.417; recordNumber: NHM_2022; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126741; associatedSequences: OQ746746 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: A4B1F9F7-40FE-59A4-8821-872786879FFC
- d. scientificName: Maldanidae; taxonConceptID: Maldanidae sp. (NHM_026); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Maldanidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1867; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.414; recordNumber: NHM_1350H; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126563; associatedSequences: OQ746672 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 41B2F126-ECDC-55F1-8775-6447FB277222
- e. scientificName: Maldanidae; taxonConceptID: Maldanidae sp. (NHM_026); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Maldanidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1867; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4336; locationRemarks: Deployment EB01; at Station B-K-E; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°50.232; verbatimLongitude: 116°33.506; decimalLatitude: 13.8372; decimalLongitude: -116.55843; geodeticDatum: WGS84; eventID: UK1_AB01_EB01; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2013-10-09; eventTime: 10:26; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.413; recordNumber: NHM_0026; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127347; associatedSequences: OQ746468 (16S) | OQ746791 (18S) | OQ738495 (COI);

identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20;
 identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: C6676585-38E9-51D3-9DDE-EA630D350CA0

Diagnosis: Specimens (Fig. 52) consistent with placement within family Maldanidae, based on morphology and DNA.



Figure 52. [doi](#)

Maldanidae sp. (NHM_026), complete live specimen NHM_026 in lateral view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Maldanidae sp. (NHM_836)

Materials

- a. scientificName: Maldanidae; taxonConceptID: Maldanidae sp. (NHM_836); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Maldanidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1867; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4094; locationRemarks: Deployment EB11; at Station S10; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°02.49'; verbatimLongitude: 117°13.03'; decimalLatitude: 12.0415; decimalLongitude: -117.21717; geodeticDatum: WGS84; eventID: OMS1_AB02_EB11; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-13; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.422; recordNumber: NHM_1947J; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126162; associatedSequences: OQ746739 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode:

- NHMMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: B7A179AE-572B-57F0-B3DB-AFEB5ED341AC
- b. scientificName: Maldanidae; taxonConceptID: Maldanidae sp. (NHM_836); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Maldanidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1867; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4045; locationRemarks: Deployment EB10; at Station S7; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°10.43; verbatimLongitude: 117°11.57; decimalLatitude: 12.17383; decimalLongitude: -117.19283; geodeticDatum: WGS84; eventID: OMS1_AB02_EB10; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-11; eventTime: 22:49; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMMUK ANEA 2023.421; recordNumber: NHM_1770; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126219; associatedSequences: OQ746715 (16S) | OQ738599 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 00385ACB-1719-5465-B61C-A67C1C98895D
- c. scientificName: Maldanidae; taxonConceptID: Maldanidae sp. (NHM_836); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Maldanidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1867; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: DNA voucher stored in buffer; recordNumber: NHM_1163A; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126535; associatedSequences: OQ746630 (16S) | OQ738563 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: DA7EC0BA-AE42-591A-91B5-8938AF9CED9E
- d. scientificName: Maldanidae; taxonConceptID: Maldanidae sp. (NHM_836); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Maldanidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1867; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4160; locationRemarks: Deployment BC04; at Station U5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°22.259; verbatimLongitude: 116°36.819; decimalLatitude: 12.37098; decimalLongitude: -116.61365; geodeticDatum: WGS84; eventID: UK1_AB02_BC04; samplingProtocol: USNEL Box Core; eventDate: 2015-02-21; eventTime: 03:38; habitat:

- Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.419; recordNumber: NHM_0836; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126790; associatedSequences: OQ746565 (16S) | OQ746862 (18S) | OQ738538 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: E7B350FA-94C1-5AA9-B1A9-D7F6C5209C13
- e. scientificName: Maldanidae; taxonConceptID: Maldanidae sp. (NHM_836); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Maldanidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1867; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4425; locationRemarks: Deployment EB02; at Station U5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°32.23; verbatimLongitude: 116°36.25; decimalLatitude: 12.53717; decimalLongitude: -116.60417; geodeticDatum: WGS84; eventID: UK1_AB02_EB02; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-20; eventTime: 06:24; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_0682; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0109405400 | 0174126553; associatedSequences: OQ746539 (16S) | OQ738531 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: CF8157F0-BCB8-520A-9678-23E9240EC80A

Diagnosis: Damaged specimens (Fig. 53) consistent with placement within family Maldanidae, based on morphology and DNA.



Figure 53. [doi](#)

Maldanidae sp. (NHM_836), anterior fragment of live specimen NHM_682 in lateral view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Maldanidae sp. (NHM_900)

Material

- a. scientificName: Maldanidae; taxonConceptID: Maldanidae sp. (NHM_900); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Maldanidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1867; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63; decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_0900; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0109405352 | 0174126769; associatedSequences: OQ746572 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 00409B34-D306-5E80-B0D9-8CB2877BB22F

Diagnosis: Damaged specimen (Fig. 54) consistent with placement within family Maldanidae, based on morphology and DNA.



Figure 54. [doi](#)

Maldanidae sp. (NHM_900), posterior fragment of specimen NHM_900.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Maldanidae sp. (NHM_1170)

Material

- a. scientificName: Maldanidae; taxonConceptID: Maldanidae sp. (NHM_1170); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Maldanidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1867; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.420; recordNumber: NHM_1170; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126766; associatedSequences: OQ746636 (16S) | OQ746879 (18S) | OQ738566 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 0ED743C7-B5FD-5691-8CBF-552062DAB313

Diagnosis: Damaged specimen (Fig. 55) consistent with placement within family Maldanidae, based on morphology and DNA.



Figure 55. [doi](#)

Maldanidae sp. (NHM_1170), anterior end in live specimen NHM_1170 in lateral view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Maldanidae sp. (NHM_1178)**Materials**

- a. scientificName: Maldanidae; taxonConceptID: Maldanidae sp. (NHM_1178); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Maldanidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1867; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4094; locationRemarks: Deployment EB11; at Station S10; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°02.49'; verbatimLongitude: 117°13.03'; decimalLatitude: 12.0415; decimalLongitude: -117.21717; geodeticDatum: WGS84; eventID: OMS1_AB02_EB11; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-13; habitat: Abyssal plain; fieldNotes: Collected from nodule (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.418; recordNumber: NHM_1890; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126770; associatedSequences: OQ746729 (16S) | OQ738602 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: F919E9E3-6E48-541F-AFEE-C999BD3CE16C
- b. scientificName: Maldanidae; taxonConceptID: Maldanidae sp. (NHM_1178); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Maldanidae; taxonRank: family; scientificNameAuthorship: Malmgren, 1867; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93'; verbatimLongitude: 117°09.87'; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_1178; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0109405429 | 0174126745; associatedSequences: OQ746640 (16S) | OQ746880 (18S) | OQ738570 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 0EC57A8E-1261-542D-9589-AE18638276A2

Diagnosis: Damaged specimens (Fig. 56) consistent with placement within family Maldanidae, based on morphology and DNA.



Figure 56. [doi](#)

Maldanidae sp. (NHM_1178), anterior fragment of specimen NHM_1890 in lateral view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Onuphidae Kinberg, 1865

Onuphidae sp. (NHM_1010)

Materials

- a. scientificName: Onuphidae; taxonConceptID: Onuphidae sp. (NHM_1010); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Eunicida; family: Onuphidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1865; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4122; locationRemarks: Deployment EB04; at Station S1; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°08.02; verbatimLongitude: 117°17.52; decimalLatitude: 12.13367; decimalLongitude: -117.292; geodeticDatum: WGS84; eventID: OMS1_AB02_EB04; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-24; eventTime: 19:10; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.423; recordNumber: NHM_1010; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126311; associatedSequences: OQ746605 (16S) | OQ746872 (18S) | OQ738555 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode:

- b. NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: A5737552-DFB9-5DF4-B445-FB6CF77AB07C; scientificName: Onuphidae; taxonConceptID: Onuphidae sp. (NHM_1010); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Eunicida; family: Onuphidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1865; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4122; locationRemarks: Deployment EB04; at Station S1; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°08.02; verbatimLongitude: 117°17.52; decimalLatitude: 12.13367; decimalLongitude: -117.292; geodeticDatum: WGS84; eventID: OMS1_AB02_EB04; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-24; eventTime: 19:10; habitat: Abyssal plain; fieldNotes: Collected from supra net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.424; recordNumber: NHM_2629; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126230; associatedSequences: OQ746781 (16S) | OQ738617 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 0C9C0FC1-5335-5889-9C92-39C22528822B

Diagnosis: Damaged specimens (Fig. 57) consistent with placement within family Onuphidae, based on morphology and DNA.



Figure 57. [doi](#)

Onuphidae sp. (NHM_1010), anterior fragment of live specimen NHM_1010 in dorsal view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Onuphidae sp. (NHM_2430)

Material

- a. scientificName: Onuphidae; taxonConceptID: Onuphidae sp. (NHM_2430); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Eunicida; family: Onuphidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1865; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4202; locationRemarks: Deployment EB01; at Station U2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°23.17456; verbatimLongitude: 116°32.92021; decimalLatitude: 12.38624; decimalLongitude: -116.54867; geodeticDatum: WGS84; eventID: UK1_AB02_EB01; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-17; eventTime: 05:15; habitat: Abyssal plain; fieldNotes: Collected from supra net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.425; recordNumber: NHM_2430; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126231; associatedSequences: OQ746774 (16S) | OQ738613 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: FDF0BF13-0B82-5B23-8DB9-9191367A1AE7

Diagnosis: Damaged specimen (Fig. 58) consistent with placement within family Onuphidae, based on morphology and DNA.

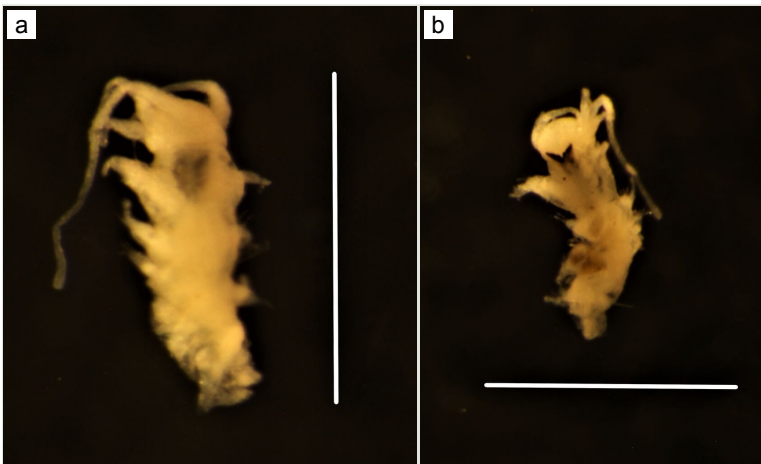


Figure 58.

Onuphidae sp. (NHM_2430), preserved specimen.

- a: Anterior fragment of specimen NHM_2430 in dorsal view. Scale bar 1 mm; [doi](#)
 b: Anterior fragment of specimen NHM_2430 in ventral view. Scale bar 1 mm. [doi](#)

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Orbiniidae Hartman, 1942

Orbiniidae sp. (NHM_102)

Materials

- a. scientificName: Orbiniidae; taxonConceptID: Orbiniidae sp. (NHM_102); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Orbiniidae; taxonRank: family; scientificNameAuthorship: Hartman, 1942; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4081; locationRemarks: Deployment BC05; at Station C; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°47.601; verbatimLongitude: 116°42.185; decimalLatitude: 13.79335; decimalLongitude: -116.70308; geodeticDatum: WGS84; eventID: UK1_AB01_BC05; samplingProtocol: USNEL Box Core; eventDate: 2013-10-11; eventTime: 12:30; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: DNA voucher stored in buffer; recordNumber: NHM_0102; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127362; associatedSequences: OQ746475 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 3EB890E9-AE32-5794-A0B7-D2DEBC81E463
- b. scientificName: Orbiniidae; taxonConceptID: Orbiniidae sp. (NHM_102); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Orbiniidae; taxonRank: family; scientificNameAuthorship: Hartman, 1942; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4081; locationRemarks: Deployment BC05; at Station C; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°47.601; verbatimLongitude: 116°42.185; decimalLatitude: 13.79335; decimalLongitude: -116.70308; geodeticDatum: WGS84; eventID: UK1_AB01_BC05; samplingProtocol: USNEL Box Core; eventDate: 2013-10-11; eventTime: 12:30; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.429; recordNumber: NHM_0110; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127337; associatedSequences: OQ746476 (16S) | OQ746797 (18S) | OQ738500 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: D8FF54C2-FA5F-58B5-92FC-C4E9657FF80B
- c. scientificName: Orbiniidae; taxonConceptID: Orbiniidae sp. (NHM_102); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Orbiniidae; taxonRank: family; scientificNameAuthorship: Hartman, 1942; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4081; locationRemarks:

Deployment BC05; at Station C; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°47.601; verbatimLongitude: 116°42.185; decimalLatitude: 13.79335; decimalLongitude: -116.70308; geodeticDatum: WGS84; eventID: UK1_AB01_BC05; samplingProtocol: USNEL Box Core; eventDate: 2013-10-11; eventTime: 12:30; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_0111; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0109405361 | 0174127343; associatedSequences: OQ746477 (16S) | OQ746798 (18S) | OQ738501 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 4E709F63-2922-5600-8305-2F31B6A2F89C

- d. scientificName: Orbiniidae; taxonConceptID: Orbiniidae sp. (NHM_102); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Orbiniidae; taxonRank: family; scientificNameAuthorship: Hartman, 1942; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4128; locationRemarks: Deployment EB04; at Station G-I; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°45.21N; verbatimLongitude: 116°29.12W; decimalLatitude: 13.75583; decimalLongitude: -116.48667; geodeticDatum: WGS84; eventID: UK1_AB01_EB04; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2013-10-17; eventTime: 01:50; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_0343; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0109405408 | 0174127296; associatedSequences: OQ746501 (16S) | OQ746819 (18S) | OQ738515 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 88B99713-6816-5E70-B73F-3C6114739C00

Diagnosis: Damaged specimens (Fig. 59) consistent with placement within family Orbiniidae, based on morphology and DNA.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Orbiniidae sp. (NHM_264)

Materials

- a. scientificName: Orbiniidae; taxonConceptID: Orbiniidae sp. (NHM_264); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Orbiniidae; taxonRank: family; scientificNameAuthorship: Hartman, 1942; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4128; locationRemarks:

Deployment EB04; at Station G-I; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°45.21N; verbatimLongitude: 116°29.12W; decimalLatitude: 13.75583; decimalLongitude: -116.48667; geodeticDatum: WGS84; eventID: UK1_AB01_EB04; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2013-10-17; eventTime: 01:50; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.431; recordNumber: NHM_0264; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127384; associatedSequences: OQ746489 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 8F09DB5F-2E99-5767-ACB6-30CDEE90BD40



Figure 59. [doi](#)

Orbiniidae sp. (NHM_102), anterior end of live specimen NHM_110.

- b. scientificName: Orbiniidae; taxonConceptID: Orbiniidae sp. (NHM_264); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Orbiniidae; taxonRank: family; scientificNameAuthorship: Hartman, 1942; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4128; locationRemarks: Deployment EB04; at Station G-I; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°45.21N; verbatimLongitude: 116°29.12W; decimalLatitude: 13.75583; decimalLongitude: -116.48667; geodeticDatum: WGS84; eventID: UK1_AB01_EB04; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2013-10-17; eventTime: 01:50; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_0270; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0109405432 | 0174127319; associatedSequences: OQ746492 (16S) | OQ746811 (18S) | OQ738510 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart;

dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology;
 language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName:
 ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID:
 A759970F-644A-5CD2-946C-6BB1542BE1E8

Diagnosis: Damaged specimens (Fig. 60) consistent with placement within family Orbiniidae, based on morphology and DNA.

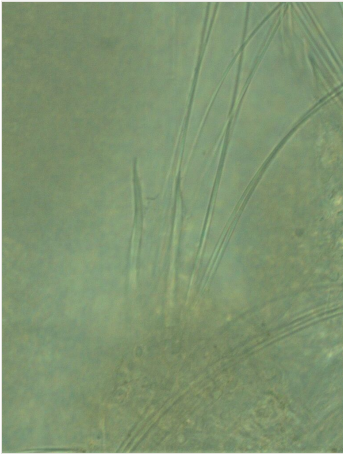


Figure 60. [doi](#)

Orbiniidae sp. (NHM_264), neuropodial spines from specimen NHM_264.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Orbiniidae sp. (NHM_458)

Materials

- a. scientificName: Orbiniidae; taxonConceptID: Orbiniidae sp. (NHM_458); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Orbiniidae; taxonRank: family; scientificNameAuthorship: Hartman, 1942; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4163; locationRemarks: Deployment BC13; at Station J; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°54.099; verbatimLongitude: 116°35.400; decimalLatitude: 13.90165; decimalLongitude: -116.59; geodeticDatum: WGS84; eventID: UK1_AB01_BC13; samplingProtocol: USNEL Box Core; eventDate: 2013-10-21; eventTime: 13:27; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.432; recordNumber: NHM_0458; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127328; associatedSequences: OQ746521 (16S) | OQ746837 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and

- morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: A48B0CD4-44DA-5317-9899-AF4280AF029D
- b. scientificName: Orbiniidae; taxonConceptID: Orbiniidae sp. (NHM_458); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Orbiniidae; taxonRank: family; scientificNameAuthorship: Hartman, 1942; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4202; locationRemarks: Deployment EB01; at Station U2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°23.17456; verbatimLongitude: 116°32.92021; decimalLatitude: 12.38624; decimalLongitude: -116.54867; geodeticDatum: WGS84; eventID: UK1_AB02_EB01; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-17; eventTime: 05:15; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.433; recordNumber: NHM_0567; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126623; associatedSequences: OQ746528 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 065B1B78-084E-5A12-B60F-BFB054EC2557

Diagnosis: Damaged specimens (Fig. 61) consistent with placement within family Orbiniidae, based on morphology and DNA.



Figure 61. [doi](#)

Orbiniidae sp. (NHM_458), anterior fragment of live specimen NHM_567.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Orbiniidae sp. (NHM_754)

Materials

- a. scientificName: Orbiniidae; taxonConceptID: Orbiniidae sp. (NHM_754); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Orbiniidae; taxonRank: family; scientificNameAuthorship: Hartman, 1942; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.435; recordNumber: NHM_1246; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174127332; associatedSequences: OQ746884 (18S) | OQ738574 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 5C6AB06F-75A0-528E-AD57-1A57D0A20389
- b. scientificName: Orbiniidae; taxonConceptID: Orbiniidae sp. (NHM_754); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Orbiniidae; taxonRank: family; scientificNameAuthorship: Hartman, 1942; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.434; recordNumber: NHM_1071; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126607; associatedSequences: OQ746612 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 8E004E54-B495-5138-B18C-CDD69AD5BD32
- c. scientificName: Orbiniidae; taxonConceptID: Orbiniidae sp. (NHM_754); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Orbiniidae; taxonRank: family; scientificNameAuthorship: Hartman, 1942; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155;

- decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_1174B; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0109405059 | 0174126614; associatedSequences: OQ746637 (16S) | OQ738567 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 13E031A8-2D48-570D-B770-6A697FA3DD16
- d. scientificName: Orbiniidae; taxonConceptID: Orbiniidae sp. (NHM_754); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Orbiniidae; taxonRank: family; scientificNameAuthorship: Hartman, 1942; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4425; locationRemarks: Deployment EB02; at Station U5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°32.23; verbatimLongitude: 116°36.25; decimalLatitude: 12.53717; decimalLongitude: -116.60417; geodeticDatum: WGS84; eventID: UK1_AB02_EB02; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-20; eventTime: 06:24; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_0754; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0109405376 | 0174126554; associatedSequences: OQ746553 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 03BB386A-3AF0-50BB-B8C9-6BC22D444D8F
- e. scientificName: Orbiniidae; taxonConceptID: Orbiniidae sp. (NHM_754); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Orbiniidae; taxonRank: family; scientificNameAuthorship: Hartman, 1942; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4196; locationRemarks: Deployment BC15; at Station U9; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°27.107; verbatimLongitude: 116°30.736; decimalLatitude: 12.45178; decimalLongitude: -116.511227; geodeticDatum: WGS84; eventID: UK1_AB02_BC15; samplingProtocol: USNEL Box Core; eventDate: 2015-03-04; eventTime: 23:23; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.436; recordNumber: NHM_1505; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126806; associatedSequences: OQ746687 (16S) | OQ746892 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName:

ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 7CFFDB24-F9EA-5AD1-B248-1F3AD3CF9726

- f. scientificName: Orbiniidae; taxonConceptID: Orbiniidae sp. (NHM_754); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Orbiniidae; taxonRank: family; scientificNameAuthorship: Hartman, 1942; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4196; locationRemarks: Deployment BC15; at Station U9; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°27.107; verbatimLongitude: 116°30.736; decimalLatitude: 12.45178; decimalLongitude: -116.51227; geodeticDatum: WGS84; eventID: UK1_AB02_BC15; samplingProtocol: USNEL Box Core; eventDate: 2015-03-04; eventTime: 23:23; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_1508A; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0109405354 | 0174126144; associatedSequences: OQ746688 (16S) | OQ738589 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 0C59A876-60CD-5087-87AA-0D7308C6535D

Diagnosis: Damaged specimens (Fig. 62) consistent with placement within family Orbiniidae, based on morphology and DNA.

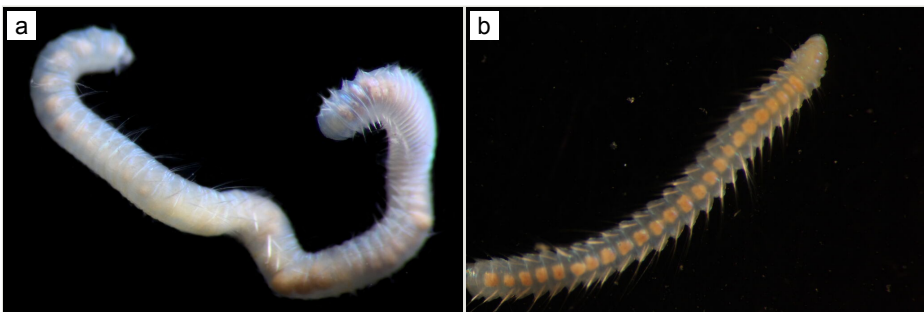


Figure 62.

Orbiniidae sp. (NHM_754)

a: Fragment of live specimen NHM_754; [doi](#)

b: Live specimen NHM_1071. [doi](#)

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Orbiniidae sp. (NHM_791)

Materials

- a. scientificName: Orbiniidae; taxonConceptID: Orbiniidae sp. (NHM_791); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Orbiniidae; taxonRank: family;

scientificNameAuthorship: Hartman, 1942; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4122; locationRemarks: Deployment EB04; at Station S1; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°08.02; verbatimLongitude: 117°17.52; decimalLatitude: 12.13367; decimalLongitude: -117.292; geodeticDatum: WGS84; eventID: OMS1_AB02_EB04; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-24; eventTime: 19:10; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.438; recordNumber: NHM_1024; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126726; associatedSequences: OQ746607 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 66D690A1-CBD8-5490-B45E-1E9D1BF9D466

- b. scientificName: Orbiniidae; taxonConceptID: Orbiniidae sp. (NHM_791); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Orbiniidae; taxonRank: family; scientificNameAuthorship: Hartman, 1942; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4425; locationRemarks: Deployment EB02; at Station U5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°32.23; verbatimLongitude: 116°36.25; decimalLatitude: 12.53717; decimalLongitude: -116.60417; geodeticDatum: WGS84; eventID: UK1_AB02_EB02; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-20; eventTime: 06:24; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.437; recordNumber: NHM_0791; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126579; associatedSequences: OQ746562 (16S) | OQ746861 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 463FA1B8-BBED-55FC-81E8-FAE1F49E61EF

Diagnosis: Damaged specimens (Fig. 63) consistent with placement within family Orbiniidae, based on morphology and DNA.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Orbiniidae sp. (NHM_824)

Materials

- a. scientificName: Orbiniidae; taxonConceptID: Orbiniidae sp. (NHM_824); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Orbiniidae; taxonRank: family;

scientificNameAuthorship: Hartman, 1942; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4090; locationRemarks: Deployment BC11; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°13.0425; verbatimLongitude: 117°19.5229; decimalLatitude: 12.21738; decimalLongitude: -117.32538; geodeticDatum: WGS84; eventID: OMS1_AB02_BC11; samplingProtocol: USNEL Box Core; eventDate: 2015-02-28; eventTime: 12:09; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.443; recordNumber: NHM_1232; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126774; associatedSequences: OQ746641 (16S) | OQ746881 (18S) | OQ738571 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 5FC70405-D9B2-5C65-90E8-D048C0E86E42



Figure 63. [doi](#)

Orbiniidae sp. (NHM_791), anterior fragment of live specimen NHM_1024 in lateral view.

- b. scientificName: Orbiniidae; taxonConceptID: Orbiniidae sp. (NHM_824); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Orbiniidae; taxonRank: family; scientificNameAuthorship: Hartman, 1942; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4094; locationRemarks: Deployment EB11; at Station S10; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°02.49; verbatimLongitude: 117°13.03; decimalLatitude: 12.0415; decimalLongitude: -117.21717; geodeticDatum: WGS84; eventID: OMS1_AB02_EB11; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-13; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.445; recordNumber: NHM_1892; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine

- Brasier; otherCatalogNumbers: 0174126755; associatedSequences: OQ746730 (16S) | OQ738603 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 661EA9D9-318E-5266-8FE7-BFE38F4BB380
- c. scientificName: Orbiniidae; taxonConceptID: Orbiniidae sp. (NHM_824); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Orbiniidae; taxonRank: family; scientificNameAuthorship: Hartman, 1942; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4045; locationRemarks: Deployment EB10; at Station S7; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°10.43; verbatimLongitude: 117°11.57; decimalLatitude: 12.17383; decimalLongitude: -117.19283; geodeticDatum: WGS84; eventID: OMS1_AB02_EB10; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-11; eventTime: 22:49; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.444; recordNumber: NHM_1736; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174123618; associatedSequences: OQ746708 (16S) | OQ738598 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 421D1604-424D-5232-98CD-D08515DBC54D
- d. scientificName: Orbiniidae; taxonConceptID: Orbiniidae sp. (NHM_824); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Orbiniidae; taxonRank: family; scientificNameAuthorship: Hartman, 1942; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.440; recordNumber: NHM_1095; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126780; associatedSequences: OQ746616 (16S) | OQ738556 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 282ADD5E-B662-5BC2-8527-0DD16BE58822
- e. scientificName: Orbiniidae; taxonConceptID: Orbiniidae sp. (NHM_824); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Orbiniidae; taxonRank: family; scientificNameAuthorship: Hartman, 1942; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A;

verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.441; recordNumber: NHM_1140; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126779; associatedSequences: OQ746623 (16S) | OQ738560 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 8BBD02DA-B771-589A-93A5-B395EA0A11EF

- f. scientificName: Orbiniidae; taxonConceptID: Orbiniidae sp. (NHM_824); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Orbiniidae; taxonRank: family; scientificNameAuthorship: Hartman, 1942; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.442; recordNumber: NHM_1151; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126781; associatedSequences: OQ746625 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: AFD6925B-577A-56AB-A407-D410EFD39D53

- g. scientificName: Orbiniidae; taxonConceptID: Orbiniidae sp. (NHM_824); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Orbiniidae; taxonRank: family; scientificNameAuthorship: Hartman, 1942; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4425; locationRemarks: Deployment EB02; at Station U5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°32.23; verbatimLongitude: 116°36.25; decimalLatitude: 12.53717; decimalLongitude: -116.60417; geodeticDatum: WGS84; eventID: UK1_AB02_EB02; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-20; eventTime: 06:24; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.439; recordNumber: NHM_0824; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126728;

associatedSequences: OQ746564 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 10D0108F-C623-5D49-BAAC-4737042D7FD0

Diagnosis: Damaged specimens (Fig. 64) consistent with placement within family Orbiniidae, based on morphology and DNA.



Figure 64. [doi](#)

Orbiniidae sp. (NHM_824), anterior end of live specimen NHM_824 in lateral view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Orbiniidae sp. (NHM_1947G)

Material

- a. scientificName: Orbiniidae; taxonConceptID: Orbiniidae sp. (NHM_1947G); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Orbiniidae; taxonRank: family; scientificNameAuthorship: Hartman, 1942; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4094; locationRemarks: Deployment EB11; at Station S10; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°02.49'; verbatimLongitude: 117°13.03'; decimalLatitude: 12.0415; decimalLongitude: -117.21717; geodeticDatum: WGS84; eventID: OMS1_AB02_EB11; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-13; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.430; recordNumber: NHM_1947G; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; associatedSequences: OQ746736 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan

Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: E8050000-8529-5BE3-ACAE-BC0302C43FE8

Diagnosis: Damaged specimen (Fig. 65) consistent with placement within family Orbiniidae, based on morphology and DNA.



Figure 65. [doi](#)

Orbiniidae sp. (NHM_1947), anterior fragment of preserved specimen NHM_1947G in lateral view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Orbiniidae sp. (NHM_050)

Materials

- a. scientificName: Orbiniidae; taxonConceptID: Orbiniidae sp. (NHM_050); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Orbiniidae; taxonRank: family; scientificNameAuthorship: Hartman, 1942; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.428; recordNumber: NHM_1348G; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126611; associatedSequences: OQ746668 (16S) | OQ738578 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan |

- Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: AE698CF0-20D8-56E2-BEB5-5784FB40597D
- b. scientificName: Orbiniidae; taxonConceptID: Orbiniidae sp. (NHM_050); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Orbiniidae; taxonRank: family; scientificNameAuthorship: Hartman, 1942; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63; decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.427; recordNumber: NHM_0917E; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126581; associatedSequences: OQ746587 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 31DABB85-0C10-5E3D-AC29-56438552CCE8
- c. scientificName: Orbiniidae; taxonConceptID: Orbiniidae sp. (NHM_050); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Orbiniidae; taxonRank: family; scientificNameAuthorship: Hartman, 1942; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4336; locationRemarks: Deployment EB01; at Station B-K-E; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°50.232; verbatimLongitude: 116°33.506; decimalLatitude: 13.8372; decimalLongitude: -116.55843; geodeticDatum: WGS84; eventID: UK1_AB01_EB01; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2013-10-09; eventTime: 10:26; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_0050; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0109405374 | 0174127344; associatedSequences: OQ746472 (16S) | OQ746795 (18S) | OQ738498 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 167D7CD8-A41C-5B9B-8D25-F2C84F2EF1F3
- d. scientificName: Orbiniidae; taxonConceptID: Orbiniidae sp. (NHM_050); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Orbiniidae; taxonRank: family; scientificNameAuthorship: Hartman, 1942; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4128; locationRemarks: Deployment EB04; at Station G-I; from R/V Melville Cruise no. MV1313; verbatimLatitude:

13°45.21N; verbatimLongitude: 116°29.12W; decimalLatitude: 13.75583; decimalLongitude: -116.48667; geodeticDatum: WGS84; eventID: UK1_AB01_EB04; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2013-10-17; eventTime: 01:50; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.426; recordNumber: NHM_0489; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127311; associatedSequences: OQ746524 (16S) | OQ746841 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 6A60CF1B-BC6E-5F77-8F09-F77BA8CEF159

Diagnosis: Damaged specimens (Fig. 66) consistent with placement within family Orbiniidae, based on morphology and DNA.



Figure 66. [doi](#)

Orbiniidae sp. (NHM_050), anterior fragment of preserved specimen NHM_050 in lateral view. Scale bar 500 µm.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Paraonidae Cerruti, 1909

Paraonidae sp. (NHM_059)

Materials

- a. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_059); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4182; locationRemarks:

- Deployment BC24; at Station S8; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°11.406; verbatimLongitude: 117°22.282; decimalLatitude: 12.1901; decimalLongitude: -117.37137; geodeticDatum: WGS84; eventID: OMS1_AB02_BC24; samplingProtocol: USNEL Box Core; eventDate: 2015-03-14; eventTime: 05:16; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.451; recordNumber: NHM_1956; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126209; associatedSequences: OQ746742 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 090DECDA-2272-58FD-9268-D2BACC243A45
- b. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_059); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4076; locationRemarks: Deployment BC08; at Station F; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°48.700; verbatimLongitude: 116°42.600; decimalLatitude: 13.81167; decimalLongitude: -116.71; geodeticDatum: WGS84; eventID: UK1_AB01_BC08; samplingProtocol: USNEL Box Core; eventDate: 2013-10-16; eventTime: 14:33; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.447; recordNumber: NHM_0244; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127315; associatedSequences: OQ746488 (16S) | OQ746808 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 7765656F-65DD-5808-A228-AED612F5282E
- c. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_059); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4108; locationRemarks: Deployment BC04; at Station B; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°50.993; verbatimLongitude: 116°38.697; decimalLatitude: 13.84988; decimalLongitude: -116.64495; geodeticDatum: WGS84; eventID: UK1_AB01_BC04; samplingProtocol: USNEL Box Core; eventDate: 2013-10-09; eventTime: 17:34; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.446; recordNumber: NHM_0059; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127350; associatedSequences: OQ746473 (16S) | OQ746796 (18S); identifiedBy: Helena Wiklund

- | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 1E143A86-996E-5894-8511-D1070D6391AB
- d. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_059); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63; decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.450; recordNumber: NHM_0915H; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126532; associatedSequences: OQ746583 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 924C02AF-8192-5471-9C78-2194DC5551E7
- e. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_059); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4011; locationRemarks: Deployment RV06; at Station K; from R/V Melville Cruise no. MV1313; decimalLatitude: 13.86367; decimalLongitude: -116.54432; geodeticDatum: WGS84; eventID: UK1_AB01_RV06; samplingProtocol: Remotely Operated Vehicle; eventDate: 2013-10-20; eventTime: 10:32; habitat: Abyssal plain; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.448; recordNumber: NHM_0424; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127352; associatedSequences: OQ746515 (16S) | OQ746831 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 538D98FA-C165-5114-A5EA-154DEF3E4475
- f. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_059); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4011; locationRemarks: Deployment RV06; at Station K; from R/V Melville Cruise no. MV1313; decimalLatitude: 13.86367; decimalLongitude: -116.54432; geodeticDatum: WGS84; eventID:

- UK1_AB01_RV06; samplingProtocol: Remotely Operated Vehicle; eventDate: 2013-10-20; eventTime: 10:32; habitat: Abyssal plain; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.449; recordNumber: NHM_0429; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127335; associatedSequences: OQ746516 (16S) | OQ746832 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 2F23F3EC-468A-5A19-99B7-799C0EBA30A4
- g. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_059); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4011; locationRemarks: Deployment RV06; at Station K; from R/V Melville Cruise no. MV1313; decimalLatitude: 13.86367; decimalLongitude: -116.54432; geodeticDatum: WGS84; eventID: UK1_AB01_RV06; samplingProtocol: Remotely Operated Vehicle; eventDate: 2013-10-20; eventTime: 10:32; habitat: Abyssal plain; individualCount: 1; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_0436; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0109405351 | 0174127385; associatedSequences: OQ746519 (16S) | OQ746835 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 34B673E7-B7E3-5DAF-B7DA-C34F67288BC6

Diagnosis: Damaged specimens (Fig. 67) consistent with placement within family Paraonidae, based on morphology and DNA.



Figure 67. [doi](#)

Paraonidae sp. (NHM_059), live specimen NHM_059 in ventral view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Paraonidae sp. (NHM_177)

Materials

- a. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_177); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4082; locationRemarks: Deployment EB03; at Station D; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°56.089; verbatimLongitude: 116°33.011; decimalLatitude: 13.93482; decimalLongitude: -116.55018; geodeticDatum: WGS84; eventID: UK1_AB01_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2013-10-13; eventTime: 12:40; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.453; recordNumber: NHM_0177; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127313; associatedSequences: OQ746484 (16S) | OQ746805 (18S) | OQ738505 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 87913991-001C-5234-BBB8-1343FA5451BF
- b. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_177); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4110; locationRemarks: Deployment BC09; at Station G; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°45.726; verbatimLongitude: 116°27.825; decimalLatitude: 13.7621; decimalLongitude: -116.46375; geodeticDatum: WGS84; eventID: UK1_AB01_BC09; samplingProtocol: USNEL Box Core; eventDate: 2013-10-17; eventTime: 13:40; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_0304; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0109405423 | 0174127300; associatedSequences: OQ746494 (16S) | OQ746813 (18S) | OQ738512 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 507DE5DB-6967-571D-B901-C14E3C74DE39

Diagnosis: Damaged specimens (Fig. 68) consistent with placement within family Paraonidae, based on morphology and DNA.



Figure 68. [doi](#)

Paraonidae sp. (NHM_177), anterior fragment of live specimen NHM_177 in ventral view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Paraonidae sp. (NHM_332)

Materials

- a. **scientificName:** Paraonidae; **taxonConceptID:** Paraonidae sp. (NHM_332); **kingdom:** Animalia; **phylum:** Annelida; **class:** Polychaeta; **family:** Paraonidae; **taxonRank:** family; **scientificNameAuthorship:** Cerruti, 1909; **waterBody:** Pacific; **stateProvince:** Clarion Clipperton Zone; **locality:** Ocean Mineral Singapore exploration claim Stratum A; **verbatimLocality:** OMS Stratum A; **maximumDepthInMeters:** 4302; **locationRemarks:** Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; **verbatimLatitude:** 12°15.44; **verbatimLongitude:** 117°18.13; **decimalLatitude:** 12.25733; **decimalLongitude:** -117.30217; **geodeticDatum:** WGS84; **eventID:** OMS1_AB02_EB06; **samplingProtocol:** Brenke Epibenthic Sledge; **eventDate:** 2015-03-01; **eventTime:** 04:02; **habitat:** Abyssal plain; **fieldNotes:** Collected from epi net (on the epibenthic sledge); **individualCount:** 1; **preparations:** specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; **catalogNumber:** NHMUK ANEA 2023.459; **recordNumber:** NHM_1320; **recordedBy:** Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; **otherCatalogNumbers:** 0174126565; **associatedSequences:** OQ746659 (16S); **identifiedBy:** Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; **dateIdentified:** 2021-04-20; **identificationRemarks:** identified by DNA and morphology; **language:** en; **institutionCode:** NHMUK; **collectionCode:** ZOO; **datasetName:** ABYSSLINE; **basisOfRecord:** PreservedSpecimen; **occurrenceID:** 15C39F1F-43A7-5AD6-A263-7491CFABADA7
- b. **scientificName:** Paraonidae; **taxonConceptID:** Paraonidae sp. (NHM_332); **kingdom:** Animalia; **phylum:** Annelida; **class:** Polychaeta; **family:** Paraonidae; **taxonRank:** family;

scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4122; locationRemarks: Deployment EB04; at Station S1; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°08.02; verbatimLongitude: 117°17.52; decimalLatitude: 12.13367; decimalLongitude: -117.292; geodeticDatum: WGS84; eventID: OMS1_AB02_EB04; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-24; eventTime: 19:10; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.458; recordNumber: NHM_1005; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126569; associatedSequences: OQ746603 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: C7870CCB-8E8E-55BE-A6B4-55AC2E7D2654

- c. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_332); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4045; locationRemarks: Deployment EB10; at Station S7; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°10.43; verbatimLongitude: 117°11.57; decimalLatitude: 12.17383; decimalLongitude: -117.19283; geodeticDatum: WGS84; eventID: OMS1_AB02_EB10; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-11; eventTime: 22:49; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.460; recordNumber: NHM_1797K; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126210; associatedSequences: OQ746723 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 28700313-3481-505B-AF55-054C718839DF
- d. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_332); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4011; locationRemarks: Deployment RV06; at Station K; from R/V Melville Cruise no. MV1313; decimalLatitude: 13.86367; decimalLongitude: -116.54432; geodeticDatum: WGS84; eventID: UK1_AB01_RV06; samplingProtocol: Remotely Operated Vehicle; eventDate: 2013-10-20; eventTime: 10:32; habitat: Abyssal plain; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.456; recordNumber: NHM_0419; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva;

- otherCatalogNumbers: 0174127359; associatedSequences: OQ746513 (16S) | OQ746829 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: CF1F0581-60D4-5F04-AFD3-65644885680E
- e. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_332); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4011; locationRemarks: Deployment RV06; at Station K; from R/V Melville Cruise no. MV1313; decimalLatitude: 13.86367; decimalLongitude: -116.54432; geodeticDatum: WGS84; eventID: UK1_AB01_RV06; samplingProtocol: Remotely Operated Vehicle; eventDate: 2013-10-20; eventTime: 10:32; habitat: Abyssal plain; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.457; recordNumber: NHM_0423; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127314; associatedSequences: OQ746514 (16S) | OQ746830 (18S) | OQ738521 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 30F3C55C-55D5-5998-A547-D2BFF518E842
- f. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_332); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4075; locationRemarks: Deployment RV05; at Station G; from R/V Melville Cruise no. MV1313; decimalLatitude: 13.76085; decimalLongitude: -116.4653; geodeticDatum: WGS84; eventID: UK1_AB01_RV05; samplingProtocol: Remotely Operated Vehicle; eventDate: 2013-10-17; eventTime: 19:06; habitat: Abyssal plain; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.455; recordNumber: NHM_0332; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127375; associatedSequences: OQ746497 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 73716274-AB6E-5E26-B67A-09B52BF746D0

Diagnosis: Complete (Fig. 69) and damaged specimens consistent with placement within family Paraonidae, based on morphology and DNA.



Figure 69. [doi](#)

Paraonidae sp. (NHM_332), complete live specimen NHM_419 in dorsolateral view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Paraonidae sp. (NHM_412)

Materials

- a. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_412); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4150; locationRemarks: Deployment MC09; at Station H; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°53.300; verbatimLongitude: 116°41.399; decimalLatitude: 13.88833; decimalLongitude: -116.68998; geodeticDatum: WGS84; eventID: UK1_AB01_MC09; samplingProtocol: Multi Corer; eventDate: 2013-10-19; eventTime: 07:14; habitat: Abyssal plain; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.465; recordNumber: NHM_0412; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127383; associatedSequences: OQ746511 (16S) | OQ746827 (18S) | OQ738519 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 4ADADB89-2540-50D3-BDB7-6B4F97E335C4
- b. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_412); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63; decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03;

samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.467; recordNumber: NHM_0916; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126618; associatedSequences: OQ746584 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 628C02F5-783E-59B3-9E45-3CE1BD31910F

- c. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_412); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4011; locationRemarks: Deployment RV06; at Station K; from R/V Melville Cruise no. MV1313; decimalLatitude: 13.86367; decimalLongitude: -116.54432; geodeticDatum: WGS84; eventID: UK1_AB01_RV06; samplingProtocol: Remotely Operated Vehicle; eventDate: 2013-10-20; eventTime: 10:32; habitat: Abyssal plain; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.466; recordNumber: NHM_0418; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127376; associatedSequences: OQ746512 (16S) | OQ746828 (18S) | OQ738520 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: CAFE01E6-36CA-57FF-B8BB-4BA2D4E55FF5

Diagnosis: Complete (Fig. 70) and damaged specimens consistent with placement within family Paraonidae, based on morphology and DNA.



Figure 70. [doi](#)

Paraonidae sp. (NHM_418), anterior fragment of live specimen NHM_418 in ventral view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Paraonidae sp. (NHM_434)

Materials

- a. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_434); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4122; locationRemarks: Deployment EB04; at Station S1; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°08.02'; verbatimLongitude: 117°17.52'; decimalLatitude: 12.13367; decimalLongitude: -117.292; geodeticDatum: WGS84; eventID: OMS1_AB02_EB04; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-24; eventTime: 19:10; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.469; recordNumber: NHM_0996; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126813; associatedSequences: OQ746600 (16S) | OQ738552 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 74139444-3A6F-5637-A2EA-4DB021FE6946
- b. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_434); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4094; locationRemarks: Deployment EB11; at Station S10; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°02.49'; verbatimLongitude: 117°13.03'; decimalLatitude: 12.0415; decimalLongitude: -117.21717; geodeticDatum: WGS84; eventID: OMS1_AB02_EB11; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-13; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_1948E; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0109405427 | 0174126233; associatedSequences: OQ746741 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: C0B79091-1010-59E8-AB8E-690834D55927
- c. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_434); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4011; locationRemarks:

Deployment RV06; at Station K; from R/V Melville Cruise no. MV1313; decimalLatitude: 13.86367; decimalLongitude: -116.54432; geodeticDatum: WGS84; eventID: UK1_AB01_RV06; samplingProtocol: Remotely Operated Vehicle; eventDate: 2013-10-20; eventTime: 10:32; habitat: Abyssal plain; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.468; recordNumber: NHM_0434; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127340; associatedSequences: OQ746518 (16S) | OQ746834 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 7860C216-EE0B-5A00-92A8-2E40A3C9A714

Diagnosis: Damaged specimens (Fig. 71) consistent with placement within family Paraonidae, based on morphology and DNA.



Figure 71. [doi](#)

Paraonidae sp. (NHM_434), anterior fragment of live specimen NHM_996 in ventrolateral view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Paraonidae sp. (NHM_584)

Materials

- a. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_584); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02;

habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.470; recordNumber: NHM_1251; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126542; associatedSequences: OQ746646 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: CB175DF4-8DF2-5D5A-BA9B-CAB1D70A98A7

- b. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_584); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4202; locationRemarks: Deployment EB01; at Station U2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°23.17456; verbatimLongitude: 116°32.92021; decimalLatitude: 12.38624; decimalLongitude: -116.54867; geodeticDatum: WGS84; eventID: UK1_AB02_EB01; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-17; eventTime: 05:15; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_0584; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0109405407 | 0174126599; associatedSequences: OQ746530 (16S) | OQ746844 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 9F43A08C-6447-5E02-9671-2B818E44F083

Diagnosis: Fragmented specimens (Fig. 72) consistent with placement within family Paraonidae, based on morphology and DNA.



Figure 72. [doi](#)

Paraonidae sp. (NHM_584), anterior fragment of a live specimen NHM_1251.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Paraonidae sp. (NHM_902)

Materials

- a. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_902); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4051; locationRemarks: Deployment BC22; at Station S9; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°05.994; verbatimLongitude: 117°11.796; decimalLatitude: 12.0999; decimalLongitude: -117.1966; geodeticDatum: WGS84; eventID: OMS1_AB02_BC22; samplingProtocol: USNEL Box Core; eventDate: 2015-03-12; eventTime: 19:03; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.474; recordNumber: NHM_1841; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126188; associatedSequences: OQ746724 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: C318D5C9-31E2-5D88-B357-B63029398E7E
- b. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_902); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4045; locationRemarks: Deployment EB10; at Station S7; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°10.43; verbatimLongitude: 117°11.57; decimalLatitude: 12.17383; decimalLongitude: -117.19283; geodeticDatum: WGS84; eventID: OMS1_AB02_EB10; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-11; eventTime: 22:49; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.473; recordNumber: NHM_1774; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126195; associatedSequences: OQ746717 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 1B73CEE7-0CEB-58D1-B204-5997521AE97E
- c. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_902); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B;

verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4137; locationRemarks: Deployment EB07; at Station U7; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°27.26; verbatimLongitude: 116°36.77; decimalLatitude: 12.45433; decimalLongitude: -116.61283; geodeticDatum: WGS84; eventID: UK1_AB02_EB07; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-03; eventTime: 20:40; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.472; recordNumber: NHM_1452; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126771; associatedSequences: OQ746681 (16S) | OQ738585 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 809B6B20-59C8-5F3C-AA11-14CB2D37F674

- d. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_902); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63; decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.471; recordNumber: NHM_0902; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126798; associatedSequences: OQ746573 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 16DA3996-B03B-5743-AFFB-0676CA7CC718

Diagnosis: Damaged specimens (Fig. 73) consistent with the placement within family Paraonidae, based on morphology and DNA.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Paraonidae sp. (NHM_1139)

Material

- a. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_1139); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A;

verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.452; recordNumber: NHM_1139; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126559; associatedSequences: OQ746622 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 7F2AB3D7-68B2-5064-9E93-98FAF8902755

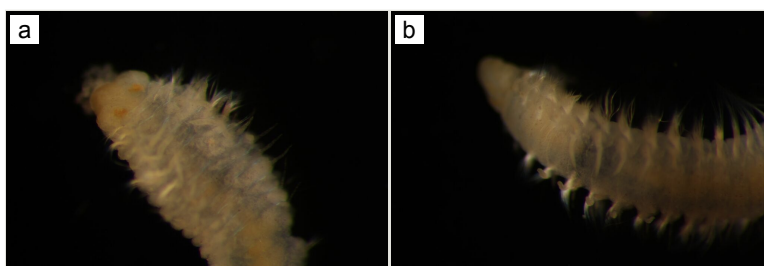


Figure 73.

Paraonidae sp. (NHM_902).

a: Anterior fragment of live specimen NHM_1452 in dorsal view; [doi](#)

b: Anterior fragment of live specimen NHM_1774 in dorsolateral view. [doi](#)

Diagnosis: Damaged specimen (Fig. 74) consistent with placement within family Paraonidae, based on morphology and DNA.



Figure 74. [doi](#)

Paraonidae sp. (NHM_1139), anterior fragment of live specimen NHM_1139 in lateral view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Paraonidae sp. (NHM_2118)

Material

- a. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_2118); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Area of Particular Interest APEI-6; verbatimLocality: APEI-6; maximumDepthInMeters: 4026; locationRemarks: Deployment EB13; at Station APEI; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 19 27.874; verbatimLongitude: 120 01.525; decimalLatitude: 19.46457; decimalLongitude: -120.02542; geodeticDatum: WGS84; eventID: APEI6_AB02_EB13; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-20; eventTime: 16:12; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.454; recordNumber: NHM_2118; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126264; associatedSequences: OQ746756 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: A0B504F1-745C-5067-9C5F-D9C2626DB57F

Diagnosis: Damaged specimen (Fig. 75) consistent with placement within family Paraonidae, based on morphology and DNA.



Figure 75. [doi](#)

Paraonidae sp. (NHM_2118), anterior fragment of live specimen NHM_2118 in dorsal view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Paraonidae sp. (NHM_363)**Materials**

- a. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_363); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.463; recordNumber: NHM_1334; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126334; associatedSequences: OQ746660 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 71D7C1A7-5A76-5526-BD41-DDFBDFC31069
- b. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_363); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4122; locationRemarks: Deployment EB04; at Station S1; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°08.02; verbatimLongitude: 117°17.52; decimalLatitude: 12.13367; decimalLongitude: -117.292; geodeticDatum: WGS84; eventID: OMS1_AB02_EB04; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-24; eventTime: 19:10; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.462; recordNumber: NHM_1009; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126263; associatedSequences: OQ746604 (16S) | OQ746871 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 5DF38A64-F1D2-5D86-A86C-46B20E1B6CD9
- c. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_363); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4122; locationRemarks: Deployment EB04; at Station S1; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°08.02; verbatimLongitude: 117°17.52; decimalLatitude: 12.13367;

- decimalLongitude: -117.292; geodeticDatum: WGS84; eventID: OMS1_AB02_EB04; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-24; eventTime: 19:10; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: DNA voucher stored in buffer; recordNumber: NHM_1020; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126240; associatedSequences: OQ746606 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 8FF33B88-8E5E-53E3-B9AC-73B78B433CB5
- d. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_363); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4094; locationRemarks: Deployment EB11; at Station S10; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°02.49'; verbatimLongitude: 117°13.03'; decimalLatitude: 12.0415; decimalLongitude: -117.21717; geodeticDatum: WGS84; eventID: OMS1_AB02_EB11; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-13; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.464; recordNumber: NHM_1932; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126313; associatedSequences: OQ746733 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: DB93644D-99E0-55C7-97E1-7959D3F0795F
- e. scientificName: Paraonidae; taxonConceptID: Paraonidae sp. (NHM_363); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Paraonidae; taxonRank: family; scientificNameAuthorship: Cerruti, 1909; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4182; locationRemarks: Deployment EB05; at Station H-J; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°55.984; verbatimLongitude: 116°42.977; decimalLatitude: 13.93307; decimalLongitude: -116.72378; geodeticDatum: WGS84; eventID: UK1_AB01_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2013-10-19; eventTime: 12:16; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.461; recordNumber: NHM_0363; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127336; associatedSequences: OQ746505 (16S) | OQ746822 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 4DF0A8F4-7BFC-52F8-8FAA-1EF3E4D9AD4

Diagnosis: Damaged specimen (Fig. 76) consistent with placement within family Paraonidae, based on morphology and DNA.



Figure 76. [doi](#)

Paraonidae sp. (NHM_363) specimen NHM_1009, anterior end of live specimen in lateral view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Pilargidae Saint-Joseph, 1899

Ancistrosyllis sp. (NHM_765)

Materials

- a. scientificName: *Ancistrosyllis*; taxonConceptID: *Ancistrosyllis* sp. (NHM_765); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Pilargidae; taxonRank: genus; genus: *Ancistrosyllis*; scientificNameAuthorship: McIntosh, 1878; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4044; locationRemarks: Deployment BC12; at Station S6; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°08.695; verbatimLongitude: 117°19.526; decimalLatitude: 12.14492; decimalLongitude: -117.32543; geodeticDatum: WGS84; eventID: OMS1_AB02_BC12; samplingProtocol: USNEL Box Core; eventDate: 2015-03-02; eventTime: 02:20; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.479; recordNumber: NHM_1385; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126735; associatedSequences: OQ746677 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart;

- dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: C76D3090-490F-50EC-BE13-91B6B3DE755E
- b. scientificName: *Ancistrosyllis*; taxonConceptID: *Ancistrosyllis* sp. (NHM_765); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Pilargidae; taxonRank: genus; genus: *Ancistrosyllis*; scientificNameAuthorship: McIntosh, 1878; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4045; locationRemarks: Deployment EB10; at Station S7; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°10.43; verbatimLongitude: 117°11.57; decimalLatitude: 12.17383; decimalLongitude: -117.19283; geodeticDatum: WGS84; eventID: OMS1_AB02_EB10; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-11; eventTime: 22:49; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.483; recordNumber: NHM_1775; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126172; associatedSequences: OQ746718 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 3F596A09-AF50-51B0-B9C4-BC7A62CE9596
- c. scientificName: *Ancistrosyllis*; taxonConceptID: *Ancistrosyllis* sp. (NHM_765); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Pilargidae; taxonRank: genus; genus: *Ancistrosyllis*; scientificNameAuthorship: McIntosh, 1878; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.478; recordNumber: NHM_1144; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126740; associatedSequences: OQ746624 (16S) | OQ738561 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: CBD086DA-2AB1-5B51-BE17-0D7835DE61B7
- d. scientificName: *Ancistrosyllis*; taxonConceptID: *Ancistrosyllis* sp. (NHM_765); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Pilargidae; taxonRank: genus; genus: *Ancistrosyllis*; scientificNameAuthorship: McIntosh, 1878; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4237; locationRemarks: Deployment BC06; at Station U6; from

- R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.742; verbatimLongitude: 116°41.218; decimalLatitude: 12.57903; decimalLongitude: -116.68697; geodeticDatum: WGS84; eventID: UK1_AB02_BC06; samplingProtocol: USNEL Box Core; eventDate: 2015-02-22; eventTime: 05:08; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.476; recordNumber: NHM_0860; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126758; associatedSequences: OQ746568 (16S) | OQ738539 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 8C0CFED9-2787-59DB-9957-D1737C52A253
- e. scientificName: *Ancistrosyllis*; taxonConceptID: *Ancistrosyllis* sp. (NHM_765); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Pilargidae; taxonRank: genus; genus: *Ancistrosyllis*; scientificNameAuthorship: McIntosh, 1878; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4137; locationRemarks: Deployment EB07; at Station U7; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°27.26; verbatimLongitude: 116°36.77; decimalLatitude: 12.45433; decimalLongitude: -116.61283; geodeticDatum: WGS84; eventID: UK1_AB02_EB07; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-03; eventTime: 20:40; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.480; recordNumber: NHM_1424; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126734; associatedSequences: OQ746678 (16S) | OQ738583 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 1F587B14-6BB3-585C-9F8C-ED1BC7D96DB1
- f. scientificName: *Ancistrosyllis*; taxonConceptID: *Ancistrosyllis* sp. (NHM_765); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Pilargidae; taxonRank: genus; genus: *Ancistrosyllis*; scientificNameAuthorship: McIntosh, 1878; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4137; locationRemarks: Deployment EB07; at Station U7; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°27.26; verbatimLongitude: 116°36.77; decimalLatitude: 12.45433; decimalLongitude: -116.61283; geodeticDatum: WGS84; eventID: UK1_AB02_EB07; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-03; eventTime: 20:40; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.481; recordNumber: NHM_1480D; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126168; associatedSequences:

- OQ746685 (16S) | OQ738588 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 0F3513BD-E36A-5F2D-A286-FE62755A9265
- g. scientificName: *Ancistrosyllis*; taxonConceptID: *Ancistrosyllis* sp. (NHM_765); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Pilargidae; taxonRank: genus; genus: *Ancistrosyllis*; scientificNameAuthorship: McIntosh, 1878; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63; decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.477; recordNumber: NHM_0951; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174127310; associatedSequences: OQ746595 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: A86125FD-1A30-52D0-8A67-DEF5343B2F12
- h. scientificName: *Ancistrosyllis*; taxonConceptID: *Ancistrosyllis* sp. (NHM_765); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Pilargidae; taxonRank: genus; genus: *Ancistrosyllis*; scientificNameAuthorship: McIntosh, 1878; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4425; locationRemarks: Deployment EB02; at Station U5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°32.23; verbatimLongitude: 116°36.25; decimalLatitude: 12.53717; decimalLongitude: -116.60417; geodeticDatum: WGS84; eventID: UK1_AB02_EB02; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-20; eventTime: 06:24; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.475; recordNumber: NHM_0765; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174127377; associatedSequences: OQ746555 (16S) | OQ746858 (18S) | OQ738535 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 7D64D041-E51D-57FF-92D9-03DDFEF76D33
- i. scientificName: *Ancistrosyllis*; taxonConceptID: *Ancistrosyllis* sp. (NHM_765); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Pilargidae; taxonRank: genus; genus: *Ancistrosyllis*; scientificNameAuthorship: McIntosh, 1878;

waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4196; locationRemarks: Deployment BC15; at Station U9; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°27.107; verbatimLongitude: 116°30.736; decimalLatitude: 12.45178; decimalLongitude: -116.51227; geodeticDatum: WGS84; eventID: UK1_AB02_BC15; samplingProtocol: USNEL Box Core; eventDate: 2015-03-04; eventTime: 23:23; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.482; recordNumber: NHM_1508B; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126238; associatedSequences: OQ746689 (16S) | OQ738590 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 02AD9C23-0E55-5025-AD4B-22E7D11DED7A

Diagnosis: Specimens (Fig. 77) consistent with placement within genus *Ancistrosyllis*, based on morphology and DNA. Similar morphologically to *Ancistrosyllis groenlandica* McIntosh, 1878, but without comparative genetic data from *A. groenlandica* type locality.

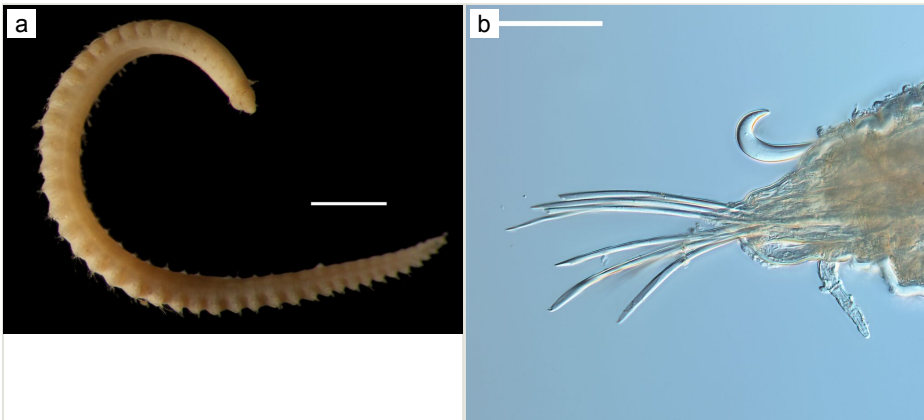


Figure 77.

Ancistrosyllis sp. (NHM_765).

a: Complete specimen NHM_1385 in ventrolateral view. Scale bar 1 mm; [doi](#)

b: Specimen NHM_1424, detail of mid-body parapodium. Scale bar 100 μ m. [doi](#)

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Polynoidae Kinberg, 1856

Bathyliasona mariaae Bonifácio & Menot, 2018

Materials

- a. scientificName: *Bathyliasona mariaae*; kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: species; genus: *Bathyliasona*; specificEpithet: *mariaae*; scientificNameAuthorship: Bonifácio & Menot, 2018; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Area of Particular Interest APEI-6; verbatimLocality: APEI-6; maximumDepthInMeters: 4026; locationRemarks: Deployment EB13; at Station APEI; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 19 27.874; verbatimLongitude: 120 01.525; decimalLatitude: 19.46457; decimalLongitude: -120.02542; geodeticDatum: WGS84; eventID: APEI6_AB02_EB13; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-20; eventTime: 16:12; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.547; recordNumber: NHM_2100; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126814; associatedSequences: OQ746754 (16S) | OQ746907 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: BD82225F-1C38-587C-8CE8-F084C2F6643D
- b. scientificName: *Bathyliasona mariaae*; kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: species; genus: *Bathyliasona*; specificEpithet: *mariaae*; scientificNameAuthorship: Bonifácio & Menot, 2018; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4202; locationRemarks: Deployment EB01; at Station U2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12'23.17456; verbatimLongitude: 116'32.92021; decimalLatitude: 12.38624; decimalLongitude: -116.54867; geodeticDatum: WGS84; eventID: UK1_AB02_EB01; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-17; eventTime: 05:15; habitat: Abyssal plain; fieldNotes: Collected from supra net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.550; recordNumber: NHM_2450; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126204; associatedSequences: OQ746775 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: CEE05701-ADD9-5E33-A264-70A0B4C2C91B

Diagnosis: Specimens (Fig. 78) consistent with *Bathyliasona mariaae*, based on morphology and DNA.

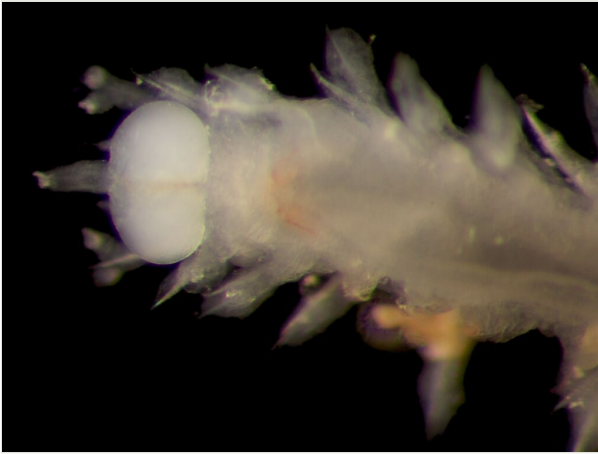


Figure 78. [doi](#)

Bathyliasona mariaae, anterior end of live specimen NHM_210 in dorsal view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

***Bathyfauvelia glacigena* Bonifácio & Menot, 2018**

Materials

- a. scientificName: *Bathyfauvelia glacigena*; kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: species; genus: *Bathyfauvelia*; specificEpithet: *glacigena*; scientificNameAuthorship: Bonifácio & Menot, 2018; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44'; verbatimLongitude: 117°18.13'; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.545; recordNumber: NHM_1269; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174127381; associatedSequences: OQ746649 (16S) | OQ746885 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 025A850C-3796-565F-ACBF-F65EE9E09F48
- b. scientificName: *Bathyfauvelia glacigena*; kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: species; genus: *Bathyfauvelia*; specificEpithet: *glacigena*; scientificNameAuthorship: Bonifácio & Menot, 2018; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A;

- maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from supra net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.549; recordNumber: NHM_2254; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126202; associatedSequences: OQ746766 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 1782B711-4720-5104-B354-023538DDE095
- c. scientificName: *Bathyfauvelia glacigena*; kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: species; genus: *Bathyfauvelia*; specificEpithet: *glacigena*; scientificNameAuthorship: Bonifácio & Menot, 2018; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4122; locationRemarks: Deployment EB04; at Station S1; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°08.02; verbatimLongitude: 117°17.52; decimalLatitude: 12.13367; decimalLongitude: -117.292; geodeticDatum: WGS84; eventID: OMS1_AB02_EB04; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-24; eventTime: 19:10; habitat: Abyssal plain; fieldNotes: Collected from supra net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.553; recordNumber: NHM_3193; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126206; associatedSequences: OQ746788 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 92730C6E-0178-57F2-A21B-DDC5DA266DD6
- d. scientificName: *Bathyfauvelia glacigena*; kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: species; genus: *Bathyfauvelia*; specificEpithet: *glacigena*; scientificNameAuthorship: Bonifácio & Menot, 2018; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.544; recordNumber: NHM_1136; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174127355; associatedSequences: OQ746621 (16S) |

- OQ738559 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; datedIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 5C635EDA-2862-5DC4-83BB-B9A7739F6459
- e. scientificName: *Bathyfauvelia glacigena*; kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: species; genus: *Bathyfauvelia*; specificEpithet: *glacigena*; scientificNameAuthorship: Bonifácio & Menot, 2018; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from supra net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.548; recordNumber: NHM_2197; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126727; associatedSequences: OQ746764 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; datedIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 4833D11F-F7BB-5423-87C3-C97ACBC024C7
- f. scientificName: *Bathyfauvelia glacigena*; kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: species; genus: *Bathyfauvelia*; specificEpithet: *glacigena*; scientificNameAuthorship: Bonifácio & Menot, 2018; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4233; locationRemarks: Deployment EB09; at Station U1; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°21.81; verbatimLongitude: 116°40.86; decimalLatitude: 12.3635; decimalLongitude: -116.681; geodeticDatum: WGS84; eventID: UK1_AB02_EB09; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-10; eventTime: 10:46; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.546; recordNumber: NHM_1654; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126815; associatedSequences: OQ746701 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; datedIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 9B825ACE-7889-5FCB-A8AA-EF77A51BDC6D
- g. scientificName: *Bathyfauvelia glacigena*; kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: species; genus: *Bathyfauvelia*; specificEpithet: *glacigena*; scientificNameAuthorship: Bonifácio & Menot, 2018; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B;

- maximumDepthInMeters: 4425; locationRemarks: Deployment EB02; at Station U5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°32.23; verbatimLongitude: 116°36.25; decimalLatitude: 12.53717; decimalLongitude: -116.60417; geodeticDatum: WGS84; eventID: UK1_AB02_EB02; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-20; eventTime: 06:24; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_0749A; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0109405352 | 0174126530; associatedSequences: OQ746551 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 3D84B39F-9519-5E5C-AFE7-D98D3413F2A3
- h. scientificName: *Bathyfauvelia glacigena*; kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: species; genus: *Bathyfauvelia*; specificEpithet: *glacigena*; scientificNameAuthorship: Bonifácio & Menot, 2018; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4425; locationRemarks: Deployment EB02; at Station U5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°32.23; verbatimLongitude: 116°36.25; decimalLatitude: 12.53717; decimalLongitude: -116.60417; geodeticDatum: WGS84; eventID: UK1_AB02_EB02; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-20; eventTime: 06:24; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.543; recordNumber: NHM_0773D; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126601; associatedSequences: OQ746557 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 92CF56C8-960F-5EA2-857C-BDF2E8FACE09
- i. scientificName: *Bathyfauvelia glacigena*; kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: species; genus: *Bathyfauvelia*; specificEpithet: *glacigena*; scientificNameAuthorship: Bonifácio & Menot, 2018; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4425; locationRemarks: Deployment EB02; at Station U5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°32.23; verbatimLongitude: 116°36.25; decimalLatitude: 12.53717; decimalLongitude: -116.60417; geodeticDatum: WGS84; eventID: UK1_AB02_EB02; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-20; eventTime: 06:24; habitat: Abyssal plain; fieldNotes: Collected from supra net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.552; recordNumber: NHM_2937; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126152; associatedSequences: OQ746786 (16S);

identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20;
 identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: E015965C-3A43-58D7-8A82-CEE718CD8E62

Diagnosis: Specimens (Fig. 79) consistent with *Bathyfauvelia glacigena*, based on morphology and DNA.



Figure 79. [doi](#)

Bathyfauvelia glacigena, live complete specimen NHM_1654 in dorsal view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

***Bathyfauvelia ignigena* Bonifácio & Menot, 2018**

Material

- a. scientificName: *Bathyfauvelia ignigena*; kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: species; genus: *Bathyfauvelia*; specificEpithet: *ignigena*; scientificNameAuthorship: Bonifácio & Menot, 2018; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4076; locationRemarks: Deployment BC08; at Station F; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°48.700; verbatimLongitude: 116°42.600; decimalLatitude: 13.81167; decimalLongitude: -116.71; geodeticDatum: WGS84; eventID: UK1_AB01_BC08; samplingProtocol: USNEL Box Core; eventDate: 2013-10-16; eventTime: 14:33; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: DNA voucher stored in buffer; recordNumber: NHM_0234; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127368; associatedSequences: OQ746487 (16S) | OQ738507 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and

morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 3934F1BB-193B-5AAF-8C10-405DEF8FDF19

Diagnosis: Specimen (Fig. 80) consistent with *Bathyfauvelia ignigena*, based on morphology and DNA.

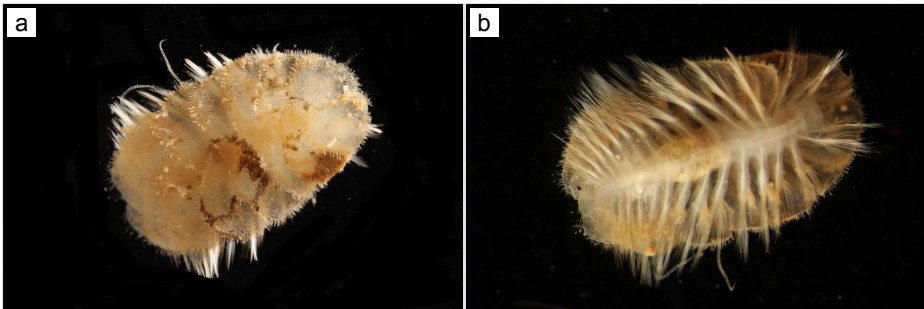


Figure 80.

Bathyfauvelia ignigena.

a: Complete live specimen NHM_235 in dorsal view; [doi](#)

b: Complete live specimen NHM_235 in ventral view. [doi](#)

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Polynoidae sp. (NHM_1655)

Materials

- a. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_1655); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4233; locationRemarks: Deployment EB09; at Station U1; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°21.81; verbatimLongitude: 116°40.86; decimalLatitude: 12.3635; decimalLongitude: -116.681; geodeticDatum: WGS84; eventID: UK1_AB02_EB09; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-10; eventTime: 10:46; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.500; recordNumber: NHM_1655; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174127353; associatedSequences: OQ746702 (16S) | OQ746896 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: A55CDF38-DC9E-5DC4-BDCA-E91D1642675D

- b. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_1655); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4233; locationRemarks: Deployment EB09; at Station U1; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°21.81; verbatimLongitude: 116°40.86; decimalLatitude: 12.3635; decimalLongitude: -116.681; geodeticDatum: WGS84; eventID: UK1_AB02_EB09; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-10; eventTime: 10:46; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.501; recordNumber: NHM_1677; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174127354; associatedSequences: OQ746704 (16S) | OQ746897 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 66FD4827-D075-58EB-9F15-A89FCF61075F

Diagnosis: Damaged specimens (Fig. 81) consistent with the family Polynoidae.

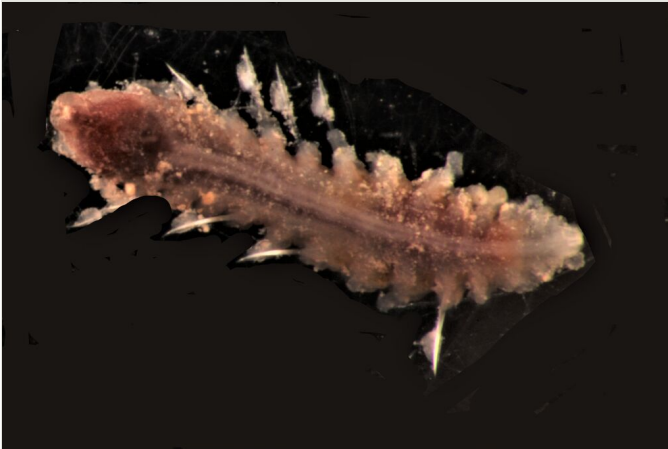


Figure 81. [doi](#)

Polynoidae sp. (NHM_1655), complete specimen NHM_1655 in ventral view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Polaruschakov lamellae Bonifácio & Menot, 2018

Material

- a. scientificName: *Polaruschakov lamellae*; kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: species; genus:

Polaruschakov; specificEpithet: *lamellae*; scientificNameAuthorship: Bonifácio & Menot, 2018; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from supra net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.551; recordNumber: NHM_2819; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126229; associatedSequences: OQ746785 (16S) | OQ738619 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: DCEC7E85-F3D7-5777-A2FB-149A9FF47993

Diagnosis: Damaged specimen consistent with *Polaruschakov lamellae*, based on DNA data.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Polynoidae sp. (NHM_034)

Material

- a. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_034); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4336; locationRemarks: Deployment EB01; at Station B-K-E; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°50.232; verbatimLongitude: 116°33.506; decimalLatitude: 13.8372; decimalLongitude: -116.55843; geodeticDatum: WGS84; eventID: UK1_AB01_EB01; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2013-10-09; eventTime: 10:26; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.530; recordNumber: NHM_0034; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127387; associatedSequences: OQ746469 (16S) | OQ746792 (18S) | OQ738496 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: A2A285A1-4CC0-59AC-9E68-329747C29C96

Diagnosis: Damaged specimen (Fig. 82) consistent with placement within family Polynoidae, based on morphology and DNA. Genetically matches with *Polaruschakov* sp. 315 as identified in Bonifácio et al. (2021).



Figure 82. [doi](#)

Polynoidae sp. (NHM_034), live specimen NHM_034 in dorsal view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Polynoidae sp. (NHM_128)

Materials

- a. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_128); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44'; verbatimLongitude: 117°18.13'; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.507; recordNumber: NHM_1351A; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126540; associatedSequences: OQ746673 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: D681B6F7-F411-5B4A-B4FF-D827DAD651FB

- b. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_128); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4094; locationRemarks: Deployment EB11; at Station S10; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°02.49'; verbatimLongitude: 117°13.03'; decimalLatitude: 12.0415; decimalLongitude: -117.21717; geodeticDatum: WGS84; eventID: OMS1_AB02_EB11; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-13; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.510; recordNumber: NHM_1925; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126767; associatedSequences: OQ746732 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: B1708B48-41EC-5D4F-8793-E7CFCD7C2611
- c. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_128); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4045; locationRemarks: Deployment EB10; at Station S7; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°10.43; verbatimLongitude: 117°11.57; decimalLatitude: 12.17383; decimalLongitude: -117.19283; geodeticDatum: WGS84; eventID: OMS1_AB02_EB10; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-11; eventTime: 22:49; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.509; recordNumber: NHM_1785; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126768; associatedSequences: OQ746721 (16S) | OQ746901 (18S) | OQ738600 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 9A7F3286-CAFO-5EDF-B042-2C5714FC3863
- d. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_128); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from epi net

- (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.505; recordNumber: NHM_1164C; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126591; associatedSequences: OQ746632 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 9B4A2CB8-DE47-5978-9555-AD9E28B1A430
- e. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_128); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.506; recordNumber: NHM_1165B; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126567; associatedSequences: OQ746634 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 5E2D74AD-92E5-5D22-BC58-1D4710D3A711
- f. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_128); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4080; locationRemarks: Deployment EB02; at Station C; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°45.500; verbatimLongitude: 116°41.911; decimalLatitude: 13.75833; decimalLongitude: -116.69852; geodeticDatum: WGS84; eventID: UK1_AB01_EB02; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2013-10-11; eventTime: 10:32; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.503; recordNumber: NHM_0128; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127323; associatedSequences: OQ746479 (16S) | OQ746800 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: ABB33344-D920-598A-842E-0744CA94542D

- g. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_128); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63; decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.504; recordNumber: NHM_0957D; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126593; associatedSequences: OQ746599 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 3E4A3E59-9E88-5E17-A77C-86EE7C00E029
- h. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_128); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4252; locationRemarks: Deployment EB08; at Station U11; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°30.79; verbatimLongitude: 116°29.48; decimalLatitude: 12.51317; decimalLongitude: -116.49133; geodeticDatum: WGS84; eventID: UK1_AB02_EB08; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-05; eventTime: 18:53; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.508; recordNumber: NHM_1533A; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126214; associatedSequences: OQ746692 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 48192FB1-B51E-5580-95FA-20F06B1B0407

Diagnosis: Specimens (Fig. 83) consistent with placement within family Polynoidae, based on morphology and DNA. Genetically matches with *Macellicephala* sp. 308 as identified in Bonifácio et al. (2021).

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Polynoidae sp. (NHM_583)

Materials

- a. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_583); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4425; locationRemarks: Deployment EB02; at Station U5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°32.23; verbatimLongitude: 116°36.25; decimalLatitude: 12.53717; decimalLongitude: -116.60417; geodeticDatum: WGS84; eventID: UK1_AB02_EB02; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-20; eventTime: 06:24; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.513; recordNumber: NHM_0733; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174127333; associatedSequences: OQ746544 (16S) | OQ746852 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: FF061E25-F3E0-5EAF-AB22-19EF7145A6C3



Figure 83. [doi](#)

Polynoidae sp. (NHM_128), complete live specimen NHM_1925 in dorsal view.

- b. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_583); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4202; locationRemarks: Deployment EB01; at Station U2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°23.17456; verbatimLongitude: 116°32.92021;

decimalLatitude: 12.38624; decimalLongitude: -116.54867; geodeticDatum: WGS84; eventID: UK1_AB02_EB01; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-17; eventTime: 05:15; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.512; recordNumber: NHM_0583; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126600; associatedSequences: OQ746529 (16S) | OQ738527 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 6FE7C516-7CFD-514F-93B4-E499ABBC5C7A

Diagnosis: Damaged specimens (Fig. 84) consistent with placement within family Polynoidae, based on morphology and DNA. Genetically matches with *Macellicephala* sp. 180 as identified in Bonifácio et al. (2021).



Figure 84. [doi](#)

Polynoidae sp. (NHM_583), complete live specimen NHM_733 in ventral view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Polynoidae sp. (NHM_588)

Materials

- a. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_588); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63;

decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.538; recordNumber: NHM_0957B; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126606; associatedSequences: OQ746598 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: ACA236E6-D6A8-50B5-B473-E2B1A88B9003

- b. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_588); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4202; locationRemarks: Deployment EB01; at Station U2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°23.17456; verbatimLongitude: 116°32.92021; decimalLatitude: 12.38624; decimalLongitude: -116.54867; geodeticDatum: WGS84; eventID: UK1_AB02_EB01; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-17; eventTime: 05:15; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.528; recordNumber: NHM_0588; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126576; associatedSequences: OQ746531 (16S) | OQ746845 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: BBEB5812-F05A-542C-AA6E-9EAA55F84DA9

Diagnosis: Damaged specimens (Fig. 85) consistent with placement within family Polynoidae, based on morphology and DNA. Genetically matches with *Polaruschakov* sp. 615 as identified in Bonifácio et al. (2021).

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Polynoidae sp. (NHM_595)

Materials

- a. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_595); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson

Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.489; recordNumber: NHM_1337; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174127329; associatedSequences: OQ746661 (16S) | OQ746889 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 4C1BA9A6-B0FC-5A4D-BAAF-684DE1290A1D

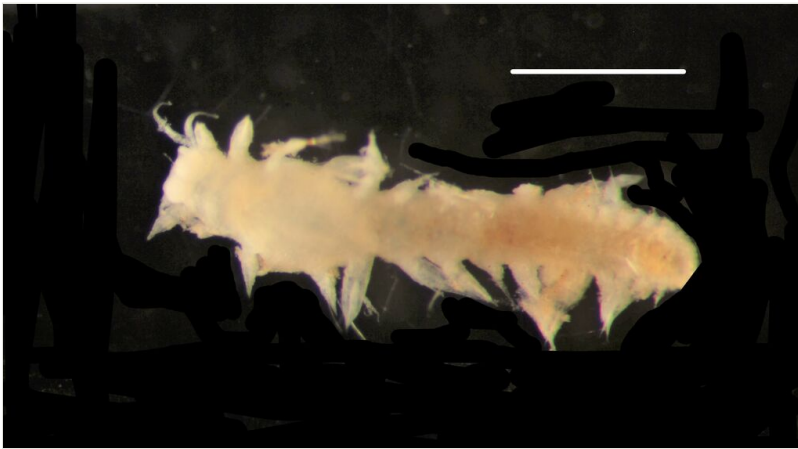


Figure 85. [doi](#)

Polynoidae sp. (NHM_588), damaged live specimen NHM_957B in dorsal view. Scale bar 1 mm.

- b. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_595); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from supra net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.491; recordNumber: NHM_2284; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126154; associatedSequences: OQ746769 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and

- morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: A4D7A14C-91C7-5E8C-BA38-44DA3BFAE371
- c. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_595); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63; decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.486; recordNumber: NHM_0915A; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126595; associatedSequences: OQ746578 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 6197A875-08EC-5549-BB6E-BF9DDBB3AE27
- d. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_595); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63; decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.485; recordNumber: NHM_0915F; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126556; associatedSequences: OQ746581 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: BE9D8E93-FD20-597E-9913-1B3A519D9966
- e. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_595); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63;

decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.488; recordNumber: NHM_0917A; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126605; associatedSequences: OQ746585 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 6AF97FA5-847C-505B-9BB2-B9FA886DE098

- f. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_595); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63; decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.487; recordNumber: NHM_0917C; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126594; associatedSequences: OQ746586 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 9C37D81A-F741-5E8C-8341-510D7C6404D0

- g. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_595); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4202; locationRemarks: Deployment EB01; at Station U2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°23.17456; verbatimLongitude: 116°32.92021; decimalLatitude: 12.38624; decimalLongitude: -116.54867; geodeticDatum: WGS84; eventID: UK1_AB02_EB01; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-17; eventTime: 05:15; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.484; recordNumber: NHM_0595; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126528; associatedSequences: OQ746534 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and

- morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: D58926FF-8AA9-5590-8012-5D6B8398FCC8
- h. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_595); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4252; locationRemarks: Deployment EB08; at Station U11; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°30.79; verbatimLongitude: 116°29.48; decimalLatitude: 12.51317; decimalLongitude: -116.49133; geodeticDatum: WGS84; eventID: UK1_AB02_EB08; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-05; eventTime: 18:53; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.490; recordNumber: NHM_1519; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126764; associatedSequences: OQ746691 (16S) | OQ738593 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 6588A7D3-6A66-539C-855B-AB2B55AABC0D

Diagnosis: Damaged specimens (Fig. 86) consistent with placement within family Polynoidae, based on morphology and DNA. Genetically matches with *Bathyfauvelia* sp. 225 as identified in Bonifácio et al. (2021).

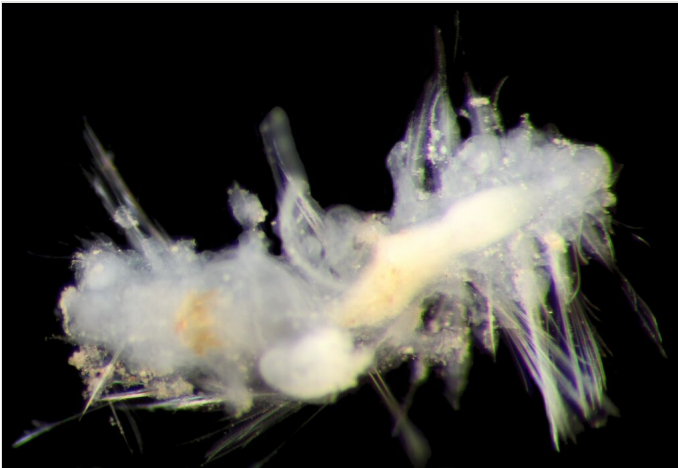


Figure 86. [doi](#)

Polynoidae sp. (NHM_595), damaged live specimen NHM_595 on dorsal view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Polynoidae sp. (NHM_679)

Materials

- a. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_679); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.495; recordNumber: NHM_1248; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174127305; associatedSequences: OQ746645 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 76D1553A-2216-5742-92CA-EBFDFA6033ED
- b. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_679); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.496; recordNumber: NHM_1346; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174127307; associatedSequences: OQ746664 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 1BF4C60A-BFA7-53E4-B0A2-A5F8A45454B2
- c. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_679); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13;

- decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from supra net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.499; recordNumber: NHM_2562; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126227; associatedSequences: OQ746780 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 252C34AB-EDA6-526D-80DB-6275E27109EB
- d. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_679); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from supra net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.498; recordNumber: NHM_2344; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126155; associatedSequences: OQ746772 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 629D9683-8A5D-5AD0-9ABF-08C8F99DC9F6
- e. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_679); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63; decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.493; recordNumber: NHM_0878; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174127306; associatedSequences: OQ746570 (16S) | OQ738540 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks:

- identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 9049D108-1814-5151-803D-65DF5604A6BD
- f. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_679); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63; decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.494; recordNumber: NHM_0913; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174127379; associatedSequences: OQ746577 (16S) | OQ738544 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 79011DF3-1842-5782-B7FB-AF8C22BFD2F8
- g. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_679); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4425; locationRemarks: Deployment EB02; at Station U5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°32.23; verbatimLongitude: 116°36.25; decimalLatitude: 12.53717; decimalLongitude: -116.60417; geodeticDatum: WGS84; eventID: UK1_AB02_EB02; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-20; eventTime: 06:24; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.492; recordNumber: NHM_0679; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126574; associatedSequences: OQ746538 (16S) | OQ746850 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: F35020FE-CC5A-59B4-927D-FD389571244A
- h. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_679); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4252; locationRemarks: Deployment EB08; at Station U11; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°30.79; verbatimLongitude: 116°29.48;

decimalLatitude: 12.51317; decimalLongitude: -116.49133; geodeticDatum: WGS84; eventID: UK1_AB02_EB08; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-05; eventTime: 18:53; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.497; recordNumber: NHM_1533D; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126193; associatedSequences: OQ746693 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 4167E49E-FFF6-5368-A7F2-E619D15B6D04

Diagnosis: Specimens (Fig. 87) consistent with placement within family Polynoidae, based on morphology and DNA. Genetically matches with *Bathyfauvelia* sp. 224 as identified in Bonifácio et al. (2021).



Figure 87. [doi](#)

Polynoidae sp. (NHM_679), complete live specimen NHM_679 in dorsal view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Polynoidae sp. (NHM_747D)

Materials

- a. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_747D); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13;

decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from supra net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.516; recordNumber: NHM_2266; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126181; associatedSequences: OQ746767 (16S) | OQ738609 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: A13E4020-D1E3-577C-B454-61C66A8E37BB

- b. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_747D); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4122; locationRemarks: Deployment EB04; at Station S1; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°08.02; verbatimLongitude: 117°17.52; decimalLatitude: 12.13367; decimalLongitude: -117.292; geodeticDatum: WGS84; eventID: OMS1_AB02_EB04; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-24; eventTime: 19:10; habitat: Abyssal plain; fieldNotes: Collected from supra net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.517; recordNumber: NHM_2633; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126157; associatedSequences: OQ746782 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: D0E4BAA0-ACD0-55D8-A295-755B7D1A559B

- c. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_747D); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from supra net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.518; recordNumber: NHM_2784; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126177; associatedSequences: OQ746784 (16S) | OQ738618 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks:

- identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 13C35B93-24D6-5D88-AB61-2895F9346548
- d. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_747D); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4233; locationRemarks: Deployment EB09; at Station U1; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°21.81; verbatimLongitude: 116°40.86; decimalLatitude: 12.3635; decimalLongitude: -116.681; geodeticDatum: WGS84; eventID: UK1_AB02_EB09; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-10; eventTime: 10:46; habitat: Abyssal plain; fieldNotes: Collected from supra net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.515; recordNumber: NHM_2205; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126228; associatedSequences: OQ746765 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 81C3CB9A-CFE5-5FF2-8D57-F2D07240622E
- e. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_747D); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4425; locationRemarks: Deployment EB02; at Station U5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°32.23; verbatimLongitude: 116°36.25; decimalLatitude: 12.53717; decimalLongitude: -116.60417; geodeticDatum: WGS84; eventID: UK1_AB02_EB02; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-20; eventTime: 06:24; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.514; recordNumber: NHM_0747D; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126578; associatedSequences: OQ746549 (16S) | OQ746855 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 5B4E3E5B-BACA-59B6-A983-DDF94497010B

Diagnosis: Damaged specimens (Fig. 88) consistent with placement within family Polynoidae, based on morphology and DNA. Genetically matches with *Macellicephala* sp. 442 as identified in Bonifácio et al. (2021).

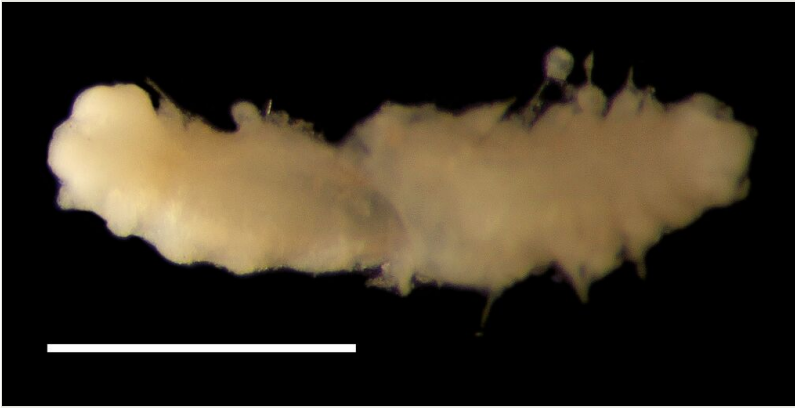


Figure 88. [doi](#)

Polynoidae sp. (NHM_747D), damaged preserved specimen NHM_747D in dorsal view. Scale bar 1 mm.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Polynoidae sp. (NHM_756)

Materials

- a. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_756); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4094; locationRemarks: Deployment EB11; at Station S10; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°02.49'; verbatimLongitude: 117°13.03'; decimalLatitude: 12.0415; decimalLongitude: -117.21717; geodeticDatum: WGS84; eventID: OMS1_AB02_EB11; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-13; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.520; recordNumber: NHM_1933; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126744; associatedSequences: OQ746734 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: DD41227F-6E65-5207-BE8F-FB126DAE7425
- b. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_756); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4425;

locationRemarks: Deployment EB02; at Station U5; from R/V Thomas G. Thompson
 Cruise no. TN319; verbatimLatitude: 12'32.23; verbatimLongitude: 116'36.25;
 decimalLatitude: 12.53717; decimalLongitude: -116.60417; geodeticDatum: WGS84;
 eventID: UK1_AB02_EB02; samplingProtocol: Brenke Epibenthic Sledge; eventDate:
 2015-02-20; eventTime: 06:24; habitat: Abyssal plain; fieldNotes: Collected from epi net
 (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-
 denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber:
 NHMUK ANEA 2023.519; recordNumber: NHM_0756; recordedBy: Adrian Glover |
 Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers:
 0174127330; associatedSequences: OQ746554 (16S) | OQ746857 (18S); identifiedBy:
 Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier |
 Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks:
 identified by DNA and morphology; language: en; institutionCode: NHMUK;
 collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen;
 occurrenceID: A25C7918-11C7-51C4-A01A-E936246B5BB3

Diagnosis: Damaged specimens (Fig. 89) consistent with placement within family Polynoidae, based on morphology and DNA. Genetically matches with *Macellicephala* sp. 437 as identified in Bonifácio et al. (2021).



Figure 89. [doi](#)

Polynoidae sp. (NHM_756), complete live specimen NHM_756 in dorsal view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Polynoidae sp. (NHM_773B)

Materials

- a. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_773B); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302;

locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson
 Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13;
 decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84;
 eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate:
 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from epi net
 (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-
 denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber:
 NHMUK ANEA 2023.525; recordNumber: NHM_1355B; recordedBy: Adrian Glover |
 Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers:
 0174126239; associatedSequences: OQ746675 (16S) | OQ738581 (COI); identifiedBy:
 Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier |
 Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks:
 identified by DNA and morphology; language: en; institutionCode: NHMUK;
 collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen;
 occurrenceID: 3ED94846-4343-57F8-ACF4-8545B2B878D3

- b. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_773B); kingdom:
 Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae;
 taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific;
 stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration
 claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302;
 locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson
 Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13;
 decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84;
 eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate:
 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from supra
 net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80%
 non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber:
 NHMUK ANEA 2023.527; recordNumber: NHM_2291; recordedBy: Adrian Glover |
 Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers:
 0174126156; associatedSequences: OQ746770 (16S); identifiedBy: Helena Wiklund |
 Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan |
 Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and
 morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName:
 ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID:
 252F6985-103B-5149-855F-9BA85ACF095E

- c. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_773B); kingdom:
 Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae;
 taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific;
 stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration
 claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4045;
 locationRemarks: Deployment EB10; at Station S7; from R/V Thomas G. Thompson
 Cruise no. TN319; verbatimLatitude: 12°10.43; verbatimLongitude: 117°11.57;
 decimalLatitude: 12.17383; decimalLongitude: -117.19283; geodeticDatum: WGS84;
 eventID: OMS1_AB02_EB10; samplingProtocol: Brenke Epibenthic Sledge; eventDate:
 2015-03-11; eventTime: 22:49; habitat: Abyssal plain; fieldNotes: Collected from epi net
 (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-
 denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber:
 NHMUK ANEA 2023.526; recordNumber: NHM_1735; recordedBy: Adrian Glover |
 Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers:
 0174126792; associatedSequences: OQ746707 (16S) | OQ746898 (18S) | OQ738597

- (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: E9A33C38-5BA1-599B-9F29-65A9A02765B0
- d. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_773B); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63; decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.524; recordNumber: NHM_0912; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174127380; associatedSequences: OQ738543 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: E650AF5C-DA76-57C2-B8BF-BAD1BDE70459
- e. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_773B); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4425; locationRemarks: Deployment EB02; at Station U5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°32.23; verbatimLongitude: 116°36.25; decimalLatitude: 12.53717; decimalLongitude: -116.60417; geodeticDatum: WGS84; eventID: UK1_AB02_EB02; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-20; eventTime: 06:24; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.521; recordNumber: NHM_0773B; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126551; associatedSequences: OQ746556 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: CD692927-546D-5B66-9590-314044F5EEED
- f. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_773B); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4425;

locationRemarks: Deployment EB02; at Station U5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12'32.23; verbatimLongitude: 116'36.25; decimalLatitude: 12.53717; decimalLongitude: -116.60417; geodeticDatum: WGS84; eventID: UK1_AB02_EB02; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-20; eventTime: 06:24; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.522; recordNumber: NHM_0783B; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126572; associatedSequences: OQ746559 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 1E7059D4-630F-57B1-91D4-3CE53F096D60

- g. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_773B); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4425; locationRemarks: Deployment EB02; at Station U5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12'32.23; verbatimLongitude: 116'36.25; decimalLatitude: 12.53717; decimalLongitude: -116.60417; geodeticDatum: WGS84; eventID: UK1_AB02_EB02; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-20; eventTime: 06:24; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.523; recordNumber: NHM_0783D; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126555; associatedSequences: OQ746560 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: DBA078C4-E264-5CBE-8F04-C33CDC99DBC0

Diagnosis: Damaged specimens (Fig. 90) consistent with placement within family Polynoidae, based on morphology and DNA. Genetically matches with *Macellicephala* sp. 35 as identified in Bonifácio et al. (2021).

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Polynoidae sp. (NHM_834)

Material

- a. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_834); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration

area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4160; locationRemarks: Deployment BC04; at Station U5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12'22.259; verbatimLongitude: 116'36.819; decimalLatitude: 12.37098; decimalLongitude: -116.61365; geodeticDatum: WGS84; eventID: UK1_AB02_BC04; samplingProtocol: USNEL Box Core; eventDate: 2015-02-21; eventTime: 03:38; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.542; recordNumber: NHM_0834; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174127309; associatedSequences: OQ738537 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 545C885F-2527-5086-A3A5-03F5FBF57808



Figure 90. [doi](#)

Polynoidae sp. (NHM_773B), preserved specimen NHM_ 783B in dorsal view. Scale bar 1 mm.

Diagnosis: Specimen (Fig. 91) consistent with placement within family Polynoidae, based on morphology and DNA.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Polynoidae sp. (NHM_1000)

Material

- a. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_1000); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration

claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4122; locationRemarks: Deployment EB04; at Station S1; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°08.02; verbatimLongitude: 117°17.52; decimalLatitude: 12.13367; decimalLongitude: -117.292; geodeticDatum: WGS84; eventID: OMS1_AB02_EB04; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-24; eventTime: 19:10; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.502; recordNumber: NHM_1000; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126794; associatedSequences: OQ746601 (16S) | OQ746868 (18S) | OQ738553 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: AFD22D55-7BC3-5B39-80AB-24003F5DBF56



Figure 91. [doi](#)

Polynoidae sp. (NHM_834), complete live specimen NHM_834 in dorsal view.

Diagnosis: Specimen (Fig. 92) consistent with placement within family Polynoidae, based on morphology and DNA. Genetically matches with *Macellicephala* sp. 444 as identified in Bonifácio et al. (2021).

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Polynoidae sp. (NHM_1763)

Material

- a. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_1763); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4045; locationRemarks: Deployment EB10; at Station S7; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°10.43; verbatimLongitude: 117°11.57;

decimalLatitude: 12.17383; decimalLongitude: -117.19283; geodeticDatum: WGS84; eventID: OMS1_AB02_EB10; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-11; eventTime: 22:49; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.531; recordNumber: NHM_1763; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126791; associatedSequences: OQ746714 (16S) | OQ746900 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: C7EBF171-0C0F-5EB1-BA04-7DFC0C16AB10



Figure 92. [doi](#)

Polynoidae sp. (NHM_1000), live specimen NHM_1000 in dorsal view.

Diagnosis: Damaged specimen (Fig. 93) consistent with placement within family Polynoidae, based on morphology and DNA.



Figure 93. [doi](#)

Polynoidae sp. (NHM_1763), live specimen NHM_1763 in dorsal view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Polynoidae sp. (NHM_2097)

Material

- a. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_2097); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Area of Particular Interest APEI-6; verbatimLocality: APEI-6; maximumDepthInMeters: 4026; locationRemarks: Deployment EB13; at Station APEI; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 19 27.874; verbatimLongitude: 120 01.525; decimalLatitude: 19.46457; decimalLongitude: -120.02542; geodeticDatum: WGS84; eventID: APEI6_AB02_EB13; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-20; eventTime: 16:12; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.532; recordNumber: NHM_2097; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126725; associatedSequences: OQ746752 (16S) | OQ746905 (18S) | OQ738607 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 6C93EF11-99FF-5325-95AE-E713C5476748

Diagnosis: Damaged specimen (Fig. 94) consistent with placement within family Polynoidae, based on morphology and DNA.



Figure 94. [doi](#)

Polynoidae sp. (NHM_2097), live specimen NHM_2097 in dorsal view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Polynoidae sp. (NHM_2099)

Material

- a. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_2099); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Area of Particular Interest APEI-6; verbatimLocality: APEI-6; maximumDepthInMeters: 4026; locationRemarks: Deployment EB13; at Station APEI; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 19 27.874; verbatimLongitude: 120 01.525; decimalLatitude: 19.46457; decimalLongitude: -120.02542; geodeticDatum: WGS84; eventID: APEI6_AB02_EB13; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-20; eventTime: 16:12; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.533; recordNumber: NHM_2099; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126720; associatedSequences: OQ746753 (16S) | OQ746906 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 10973B7C-E66E-5FEB-9F75-1C4E1CCB2B13

Diagnosis: Damaged specimen (Fig. 95) consistent with placement within family Polynoidae, based on morphology and DNA.



Figure 95. [doi](#)

Polynoidae sp. (NHM_2099), live specimen NHM_2099 in dorsal view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Polynoidae sp. (NHM_2122)

Material

- a. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_2122); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Area of Particular Interest APEI-6; verbatimLocality: APEI-6; maximumDepthInMeters: 4026; locationRemarks: Deployment EB13; at Station APEI; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 19 27.874; verbatimLongitude: 120 01.525; decimalLatitude: 19.46457; decimalLongitude: -120.02542; geodeticDatum: WGS84; eventID: APEI6_AB02_EB13; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-20; eventTime: 16:12; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.511; recordNumber: NHM_2122; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126793; associatedSequences: OQ746757 (16S) | OQ746909 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 00990127-1A40-5AF9-B16E-F4B2D059C0A8

Diagnosis: Specimen (Fig. 96) consistent with placement within family Polynoidae, based on morphology and DNA. Genetically matches with *Macellicephala* sp. 320 as identified in Bonifácio et al. (2021).



Figure 96. [doi](#)

Polynoidae sp. (NHM_2122), live specimen NHM_2122 in dorsal view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Polynoidae sp. (NHM_2101)**Materials**

- a. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_2101); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Area of Particular Interest APEI-6; verbatimLocality: APEI-6; maximumDepthInMeters: 4115; locationRemarks: Deployment BC29; at Station A02; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 19 28.342; verbatimLongitude: 120 11.495; decimalLatitude: 19.47237; decimalLongitude: -120.19158; geodeticDatum: WGS84; eventID: APEI6_AB02_BC29; samplingProtocol: USNEL Box Core; eventDate: 2015-03-22; eventTime: 02:19; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.535; recordNumber: NHM_2185; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126223; associatedSequences: OQ746760 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 65397203-5DB9-52B3-8C16-7C18436D656B
- b. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_2101); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Area of Particular Interest APEI-6; verbatimLocality: APEI-6; maximumDepthInMeters: 4026; locationRemarks: Deployment EB13; at Station APEI; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 19 27.874; verbatimLongitude: 120 01.525; decimalLatitude: 19.46457; decimalLongitude: -120.02542; geodeticDatum: WGS84; eventID: APEI6_AB02_EB13; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-20; eventTime: 16:12; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.534; recordNumber: NHM_2101; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126747; associatedSequences: OQ746755 (16S) | OQ746908 (18S) | OQ738608 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 9AA5CA8B-06CE-5248-8542-19F3CA5BCCFF

Diagnosis: Damaged specimens (Fig. 97) consistent with placement within family Polynoidae, based on morphology and DNA.



Figure 97. [doi](#)

Polynoidae sp. (NHM_2101), live specimen NHM_2101 in dorsal view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Polynoidae sp. (NHM_589)

Material

- a. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_589); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4202; locationRemarks: Deployment EB01; at Station U2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°23.17456; verbatimLongitude: 116°32.92021; decimalLatitude: 12.38624; decimalLongitude: -116.54867; geodeticDatum: WGS84; eventID: UK1_AB02_EB01; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-17; eventTime: 05:15; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.539; recordNumber: NHM_0589; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126575; associatedSequences: OQ746532 (16S) | OQ746846 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: F18909B1-77E9-57F9-A777-96DB6D918219

Diagnosis: Damaged specimen (Fig. 98) consistent with placement within family Polynoidae, based on morphology and DNA.



Figure 98. [doi](#)

Polynoidae sp. (NHM_589), live specimen NHM_589 in dorsal view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Polynoidae sp. (NHM_690)

Material

- a. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_690); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4425; locationRemarks: Deployment EB02; at Station U5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°32.23; verbatimLongitude: 116°36.25; decimalLatitude: 12.53717; decimalLongitude: -116.60417; geodeticDatum: WGS84; eventID: UK1_AB02_EB02; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-20; eventTime: 06:24; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.540; recordNumber: NHM_0690; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126550; associatedSequences: OQ746540 (16S) | OQ746851 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 885EB06E-AE2B-5A1E-B54D-61760A4ED81C

Diagnosis: Damaged specimen (Fig. 99) consistent with placement within family Polynoidae, based on morphology and DNA.



Figure 99. [doi](#)

Polynoidae sp. (NHM_690), live specimen NHM_690 in dorsal view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Polynoidae sp. (NHM_1074)

Material

- a. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_1074); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.529; recordNumber: NHM_1074; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174127356; associatedSequences: OQ746613 (16S) | OQ746873 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: C57E7401-97C1-57A6-A742-3BF90E139F5C

Diagnosis: Damaged specimen (Fig. 100) consistent with placement within family Polynoidae, based on morphology and DNA.



Figure 100. [doi](#)

Polynoidae sp. (NHM_1074), live specimen NHM_1074 in ventral view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Polynoidae sp. (NHM_747A)

Material

- a. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_747A); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4425; locationRemarks: Deployment EB02; at Station U5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°32.23; verbatimLongitude: 116°36.25; decimalLatitude: 12.53717; decimalLongitude: -116.60417; geodeticDatum: WGS84; eventID: UK1_AB02_EB02; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-20; eventTime: 06:24; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.541; recordNumber: NHM_0747A; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126602; associatedSequences: OQ746548 (16S) | OQ746854 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: D8437025-A5BA-5AC8-BD21-0C91ADCD3BCE

Diagnosis: Damaged specimen consistent with placement within family Polynoidae, based on DNA data.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Polynoidae sp. (NHM_2195)

Materials

- a. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_2195); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4122; locationRemarks: Deployment EB04; at Station S1; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°08.02; verbatimLongitude: 117°17.52; decimalLatitude: 12.13367; decimalLongitude: -117.292; geodeticDatum: WGS84; eventID: OMS1_AB02_EB04; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-24; eventTime: 19:10; habitat: Abyssal plain; fieldNotes: Collected from supra net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.536; recordNumber: NHM_2195; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126807; associatedSequences: OQ746763 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 00460F3F-74A5-5D99-A712-251DB68FBF0D
- b. scientificName: Polynoidae; taxonConceptID: Polynoidae sp. (NHM_2195); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Polynoidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4137; locationRemarks: Deployment EB07; at Station U7; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°27.26; verbatimLongitude: 116°36.77; decimalLatitude: 12.45433; decimalLongitude: -116.61283; geodeticDatum: WGS84; eventID: UK1_AB02_EB07; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-03; eventTime: 20:40; habitat: Abyssal plain; fieldNotes: Collected from supra net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.537; recordNumber: NHM_2520; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126335; associatedSequences: OQ746776 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: B6F1D175-1839-5C0A-BAD3-98186415AF95

Diagnosis: Damaged specimens consistent with placement within family Polynoidae, based on DNA data.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Sabellariidae Johnston, 1865

Sabellaridae sp. (NHM_1167B)

Materials

- a. scientificName: Sabellariidae; taxonConceptID: Sabellariidae sp. (NHM_1167B); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Sabellariidae; taxonRank: family; scientificNameAuthorship: Johnston, 1865; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.556; recordNumber: NHM_1351B; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126539; associatedSequences: OQ746674 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 7883076B-003B-5E56-B6BC-74A8AFEB02B
- b. scientificName: Sabellariidae; taxonConceptID: Sabellariidae sp. (NHM_1167B); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Sabellariidae; taxonRank: family; scientificNameAuthorship: Johnston, 1865; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.555; recordNumber: NHM_1167B; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126543; associatedSequences: OQ746635 (16S) | OQ746878 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 7DE4C09D-818B-59A9-91CC-41670BAF8E7C
- c. scientificName: Sabellariidae; taxonConceptID: Sabellariidae sp. (NHM_1167B); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Sabellariidae; taxonRank: family; scientificNameAuthorship: Johnston, 1865; waterBody: Pacific; stateProvince: Clarion

Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4137; locationRemarks: Deployment EB07; at Station U7; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°27.26; verbatimLongitude: 116°36.77; decimalLatitude: 12.45433; decimalLongitude: -116.61283; geodeticDatum: WGS84; eventID: UK1_AB02_EB07; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-03; eventTime: 20:40; habitat: Abyssal plain; fieldNotes: Collected from supra net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.557; recordNumber: NHM_2523; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126180; associatedSequences: OQ746777 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 2512A3DA-5D1E-580D-9E57-177BE1C5D98C

- d. scientificName: Sabellariidae; taxonConceptID: Sabellariidae sp. (NHM_1167B); kingdom: Animalia; phylum: Annelida; class: Polychaeta; family: Sabellariidae; taxonRank: family; scientificNameAuthorship: Johnston, 1865; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63; decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.554; recordNumber: NHM_0957A; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126617; associatedSequences: OQ746597 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: B8AF60B6-6138-5E13-AD57-170063C89E20

Diagnosis: Damaged specimens (Fig. 101) consistent with placement within family Sabellaridae, based on morphology and DNA.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Sabellidae Latreille, 1825

Sabellidae sp. (NHM_189)

Material

- a. scientificName: Sabellidae; taxonConceptID: Sabellidae sp. (NHM_189); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Sabellida; family: Sabellidae; taxonRank: family; scientificNameAuthorship: Latreille, 1825; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4082; locationRemarks: Deployment EB03; at Station D; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°56.089; verbatimLongitude: 116°33.011; decimalLatitude: 13.93482; decimalLongitude: -116.55018; geodeticDatum: WGS84; eventID: UK1_AB01_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2013-10-13; eventTime: 12:40; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_0189; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0109405350 | 0174127339; associatedSequences: OQ746485 (16S) | OQ738506 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: EA7AB927-B73D-5FCA-9553-4C1DB3CDD29C

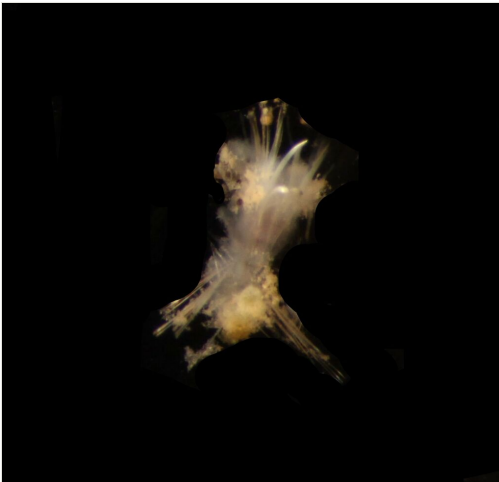


Figure 101. [doi](#)

Sabellaridae sp. (NHM_1167B), anterior fragment of live specimen NHM_1167B.

Diagnosis: Damaged specimens (Fig. 102) consistent with placement within family Sabellidae, based on morphology and DNA.



Figure 102. [doi](#)

Sabellidae sp. (NHM_189), live specimen NHM_189, radiolar crown missing.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Sabellidae sp. (NHM_351)

Material

- a. scientificName: Sabellidae; taxonConceptID: Sabellidae sp. (NHM_351); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Sabellida; family: Sabellidae; taxonRank: family; scientificNameAuthorship: Latreille, 1825; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4150; locationRemarks: Deployment BC11; at Station H; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°53.300; verbatimLongitude: 116°41.399; decimalLatitude: 13.88833; decimalLongitude: -116.68998; geodeticDatum: WGS84; eventID: UK1_AB01_BC11; samplingProtocol: USNEL Box Core; eventDate: 2013-10-19; eventTime: 02:25; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.562; recordNumber: NHM_0351; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127351; associatedSequences: OQ746503 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: CD80AB7C-07FA-58E4-9BDB-B54B2F5A045C

Diagnosis: Damaged specimen (Fig. 103) consistent with placement within family Sabellidae, based on morphology and DNA.



Figure 103. [doi](#)

Sabellidae sp. (NHM_351), damaged specimen NHM_351 in dorsolateral view, radiolar crown missing.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Sabellidae sp. (NHM_535)

Material

- a. scientificName: Sabellidae; taxonConceptID: Sabellidae sp. (NHM_535); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Sabellida; family: Sabellidae; taxonRank: family; scientificNameAuthorship: Latreille, 1825; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4158; locationRemarks: Deployment BC02; at Station U2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°22.020; verbatimLongitude: 116°31.017; decimalLatitude: 12.367; decimalLongitude: -116.51695; geodeticDatum: WGS84; eventID: UK1_AB02_BC02; samplingProtocol: USNEL Box Core; eventDate: 2015-02-17; eventTime: 12:12; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.563; recordNumber: NHM_0535; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126801; associatedSequences: OQ746526 (16S) | OQ746843 (18S) | OQ738525 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: A3F633A4-D509-5AAE-BC24-72EAE57EA38D

Diagnosis: Damaged specimen (Fig. 104) consistent with placement within family Sabellidae, based on morphology and DNA.



Figure 104. [doi](#)

Sabellidae sp. (NHM_535), live specimen NHM_535 in dorsal view, radiolar crown missing.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Sabellidae sp. (NHM_647)

Material

- a. scientificName: Sabellidae; taxonConceptID: Sabellidae sp. (NHM_647); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Sabellida; family: Sabellidae; taxonRank: family; scientificNameAuthorship: Latreille, 1825; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4202; locationRemarks: Deployment EB01; at Station U2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°23.17456; verbatimLongitude: 116°32.92021; decimalLatitude: 12.38624; decimalLongitude: -116.54867; geodeticDatum: WGS84; eventID: UK1_AB02_EB01; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-17; eventTime: 05:15; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.564; recordNumber: NHM_0647; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126577; associatedSequences: OQ746537 (16S) | OQ746849 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: D5A2B660-57E2-5A95-8F46-A6D11F59D6A0

Diagnosis: Damaged specimen (Fig. 105) consistent with placement within family Sabellidae, based on morphology and DNA.

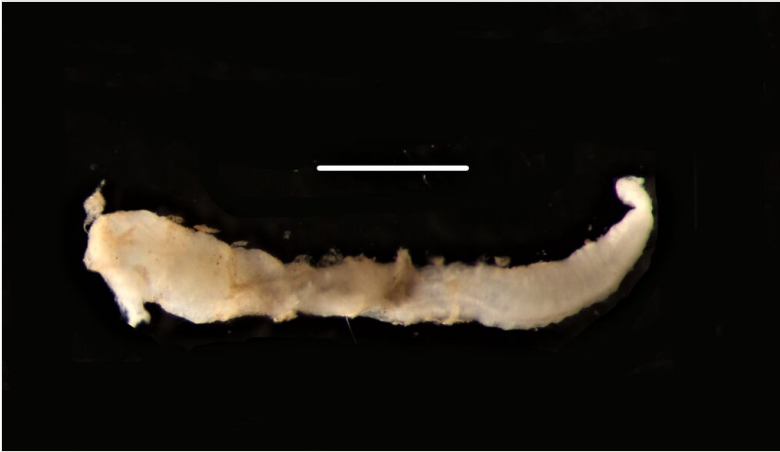


Figure 105. [doi](#)

Sabellidae sp. (NHM_647), fragment of a preserved specimen NHM_647.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Sabellidae sp. (NHM_915D)

Materials

- a. scientificName: Sabellidae; taxonConceptID: Sabellidae sp. (NHM_915D); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Sabellida; family: Sabellidae; taxonRank: family; scientificNameAuthorship: Latreille, 1825; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4045; locationRemarks: Deployment EB10; at Station S7; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°10.43; verbatimLongitude: 117°11.57; decimalLatitude: 12.17383; decimalLongitude: -117.19283; geodeticDatum: WGS84; eventID: OMS1_AB02_EB10; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-11; eventTime: 22:49; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: DNA voucher stored in buffer; recordNumber: NHM_1739; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126775; associatedSequences: OQ746709 (16S) | OQ746899 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 7D1506E6-690E-517D-A908-D3A5309C73EE
- b. scientificName: Sabellidae; taxonConceptID: Sabellidae sp. (NHM_915D); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Sabellida; family: Sabellidae; taxonRank: family; scientificNameAuthorship: Latreille, 1825; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson

Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63; decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_0915D; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0109405401 | 0174126580; associatedSequences: OQ746579 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: CC066F6A-7E54-537E-8E19-5D5EE0C35B33

Diagnosis: Damaged specimens (Fig. 106) consistent with placement within family Sabellidae, based on morphology and DNA.



Figure 106. [doi](#)

Sabellidae sp. (NHM_758), live specimen NHM_758 in lateral view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Sabellidae sp. (NHM_370)

Material

- a. scientificName: Sabellidae; taxonConceptID: Sabellidae sp. (NHM_370); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Sabellida; family: Sabellidae; taxonRank: family; scientificNameAuthorship: Latreille, 1825; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4182; locationRemarks: Deployment EB05; at Station H-J; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°55.984; verbatimLongitude: 116°42.977; decimalLatitude:

13.93307; decimalLongitude: -116.72378; geodeticDatum: WGS84; eventID: UK1_AB01_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2013-10-19; eventTime: 12:16; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_0370; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0109405375 | 0174127312; associatedSequences: OQ746507 (16S) | OQ746824 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: CEB4D89A-37E7-5270-BA71-06B12938C9D4

Diagnosis: Damaged specimen (Fig. 107) consistent with placement within family Sabellidae, based on morphology and DNA.



Figure 107. [doi](#)

Sabellidae sp. (NHM_370), damaged live specimen NHM_370, radiolar crown missing.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Sabellidae sp. (NHM_472)

Material

- a. scientificName: Sabellidae; taxonConceptID: Sabellidae sp. (NHM_472); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Sabellida; family: Sabellidae; taxonRank: family; scientificNameAuthorship: Latreille, 1825; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4160; locationRemarks: Deployment BC14; at Station L; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°43.597; verbatimLongitude: 116°40.200; decimalLatitude: 13.72662; decimalLongitude: -116.67; geodeticDatum: WGS84; eventID: UK1_AB01_BC14;

samplingProtocol: USNEL Box Core; eventDate: 2013-10-22; eventTime: 07:25; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: Tissue voucher stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; recordNumber: NHM_0472; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0109405424 | 0174127304; associatedSequences: OQ746840 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 971F507E-8FFF-5B04-9A53-E5BB481D58EB

Diagnosis: Damaged specimen (Fig. 108) consistent with placement within family Sabellidae, based on morphology and DNA.



Figure 108. [doi](#)

Sabellidae sp. (NHM_472), live specimen NHM_472 in lateral view, radiolar crown missing.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Sabellidae sp. (NHM_1613)

Material

- a. scientificName: Sabellidae; taxonConceptID: Sabellidae sp. (NHM_1613); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Sabellida; family: Sabellidae; taxonRank: family; scientificNameAuthorship: Latreille, 1825; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4258; locationRemarks: Deployment BC20; at Station U13; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°35.813; verbatimLongitude: 116°29.614; decimalLatitude: 12.59688; decimalLongitude: -116.49357; geodeticDatum: WGS84; eventID: UK1_AB02_BC20; samplingProtocol: USNEL Box Core; eventDate: 2015-03-09; habitat: Abyssal plain; fieldNotes: Collected from nodule in box core sample;

individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.558; recordNumber: NHM_1613; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126808; associatedSequences: OQ746894 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 316533AF-28AC-54EF-8A7B-86F7CF7DAD3E

Diagnosis: Specimen (Fig. 109) consistent with placement within family Sabellidae, based on morphology and DNA.



Figure 109. [doi](#)

Sabellidae sp. (NHM_1613), live specimen NHM_1613 inside the tube, with radiolar crown exposed.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Sabellidae sp. (NHM_1859A)

Material

- a. scientificName: Sabellidae; taxonConceptID: Sabellidae sp. (NHM_1859A); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Sabellida; family: Sabellidae; taxonRank: family; scientificNameAuthorship: Latreille, 1825; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4095; locationRemarks: Deployment BC23; at Station S10; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°03.278; verbatimLongitude: 117°15.103; decimalLatitude: 12.05463; decimalLongitude: -117.25172; geodeticDatum: WGS84; eventID: OMS1_AB02_BC23; samplingProtocol: USNEL Box Core; eventDate: 2015-03-13; eventTime: 09:10; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm

layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.559; recordNumber: NHM_1859A; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126171; associatedSequences: OQ746725 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: D41F517C-3909-5F06-83AE-FFB0BC6A812A

Diagnosis: Damaged specimen (Fig. 110) consistent with placement within family Sabellidae, based on morphology and DNA.

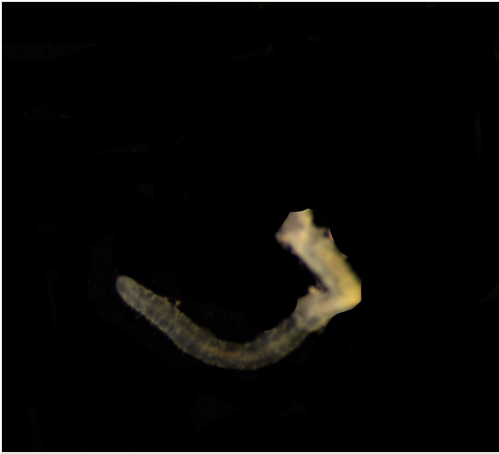


Figure 110. [doi](#)

Sabellidae sp. (NHM_1859A) damaged, live specimen NHM_1859A, radiolar crown missing.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Sabellidae sp. (NHM_1879)

Material

- a. scientificName: Sabellidae; taxonConceptID: Sabellidae sp. (NHM_1879); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Sabellida; family: Sabellidae; taxonRank: family; scientificNameAuthorship: Latreille, 1825; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4094; locationRemarks: Deployment EB11; at Station S10; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°02.49'; verbatimLongitude: 117°13.03'; decimalLatitude: 12.0415; decimalLongitude: -117.21717; geodeticDatum: WGS84; eventID: OMS1_AB02_EB11; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-13; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol

aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.560; recordNumber: NHM_1879; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126211; associatedSequences: OQ746728 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 03338B89-4B00-5590-B6CD-03B8EA403062

Diagnosis: Damaged specimen (Fig. 111) consistent with placement within family Sabellidae, based on morphology and DNA.



Figure 111. [doi](#)

Sabellidae sp. (NHM_1879), live specimen NHM_1879 in lateral view, radiolar crown missing.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Sabellidae sp. (NHM_1991)

Material

- a. scientificName: Sabellidae; taxonConceptID: Sabellidae sp. (NHM_1991); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Sabellida; family: Sabellidae; taxonRank: family; scientificNameAuthorship: Latreille, 1825; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4141; locationRemarks: Deployment BC25; at Station S11; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°00.559; verbatimLongitude: 117°22.818; decimalLatitude: 12.00932; decimalLongitude: -117.3803; geodeticDatum: WGS84; eventID: OMS1_AB02_BC25; samplingProtocol: USNEL Box Core; eventDate: 2015-03-15; eventTime: 13:10; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer;

catalogNumber: NHMUK ANEA 2023.561; recordNumber: NHM_1991; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174123621; associatedSequences: OQ746743 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 8091763D-26CA-5528-9FFD-734ABBCDB377

Diagnosis: Damaged specimen (Fig. 112) consistent with placement within family Sabellidae, based on morphology and DNA.

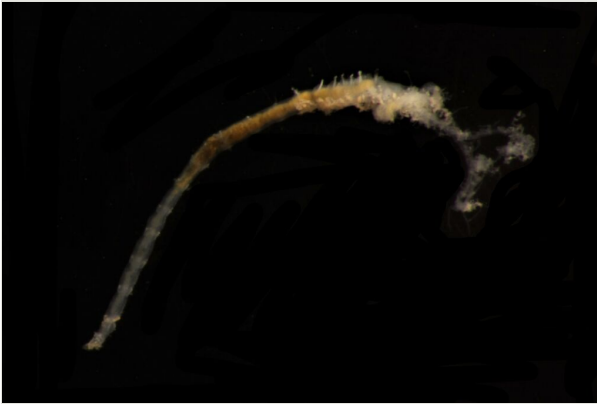


Figure 112. [doi](#)

Sabellidae sp. (NHM_1991), live specimen NHM_1991 with damaged radiolar crown attached.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Sigalionidae Kinberg, 1856

Pholoinae sp. (NHM_366)

Materials

- a. scientificName: Pholoinae; taxonConceptID: Pholoinae sp. (NHM_366); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Sigalionidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1858; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Area of Particular Interest APEI-6; verbatimLocality: APEI-6; maximumDepthInMeters: 4026; locationRemarks: Deployment EB13; at Station APEI; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 19 27.874; verbatimLongitude: 120 01.525; decimalLatitude: 19.46457; decimalLongitude: -120.02542; geodeticDatum: WGS84; eventID: APEI6_AB02_EB13; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-20; eventTime: 16:12; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol

aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.568; recordNumber: NHM_2094; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126749; associatedSequences: OQ746750 (16S) | OQ738605 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: FD491414-878C-5445-9F23-D5AC39B1814E

- b. scientificName: Pholoinae; taxonConceptID: Pholoinae sp. (NHM_366); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Sigalionidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1858; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4182; locationRemarks: Deployment EB05; at Station H-J; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°55.984; verbatimLongitude: 116°42.977; decimalLatitude: 13.93307; decimalLongitude: -116.72378; geodeticDatum: WGS84; eventID: UK1_AB01_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2013-10-19; eventTime: 12:16; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.565; recordNumber: NHM_0366; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127327; associatedSequences: OQ746506 (16S) | OQ746823 (18S) | OQ738516 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 918FE2B5-F123-563E-BA10-099CCD0291A7
- c. scientificName: Pholoinae; taxonConceptID: Pholoinae sp. (NHM_366); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Sigalionidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1858; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4233; locationRemarks: Deployment EB09; at Station U1; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°21.81; verbatimLongitude: 116°40.86; decimalLatitude: 12.3635; decimalLongitude: -116.681; geodeticDatum: WGS84; eventID: UK1_AB02_EB09; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-10; eventTime: 10:46; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.567; recordNumber: NHM_1680; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126236; associatedSequences: OQ746706 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: AA7D6FA1-56B3-572D-8AB7-D73EEFCD3316

- d. scientificName: Pholoinae; taxonConceptID: Pholoinae sp. (NHM_366); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Sigalionidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1858; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4202; locationRemarks: Deployment EB01; at Station U2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°23.17456; verbatimLongitude: 116°32.92021; decimalLatitude: 12.38624; decimalLongitude: -116.54867; geodeticDatum: WGS84; eventID: UK1_AB02_EB01; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-17; eventTime: 05:15; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.566; recordNumber: NHM_0590; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126552; associatedSequences: OQ746533 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: ABE6EC0B-BA88-5D6F-B52B-AC23A2ACA87D

Diagnosis: Damaged specimens (Fig. 113) consistent with placement within subfamily Pholoinae, based on morphology and DNA.



Figure 113. [doi](#)

Pholoinae sp. (NHM_366), anterior fragment of live specimen NHM_2094 in dorsal view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Sigalionidae sp. (NHM_342)

Materials

- a. scientificName: Sigalionidae; taxonConceptID: Sigalionidae sp. (NHM_342); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Sigalionidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific;

- stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.575; recordNumber: NHM_1316; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126586; associatedSequences: OQ746658 (16S) | OQ738577 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: D86069F3-7E9C-5522-9F1B-EFCB3A000270
- b. scientificName: Sigalionidae; taxonConceptID: Sigalionidae sp. (NHM_342); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Sigalionidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4094; locationRemarks: Deployment EB11; at Station S10; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°02.49'; verbatimLongitude: 117°13.03'; decimalLatitude: 12.0415; decimalLongitude: -117.21717; geodeticDatum: WGS84; eventID: OMS1_AB02_EB11; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-13; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.578; recordNumber: NHM_1947H; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126186; associatedSequences: OQ746737 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: B266112D-6C5E-52B1-BC98-11607941F1B8
- c. scientificName: Sigalionidae; taxonConceptID: Sigalionidae sp. (NHM_342); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Sigalionidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.574; recordNumber: NHM_1164D; recordedBy: Adrian Glover |

- Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126584; associatedSequences: OQ746633 (16S) | OQ738565 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 1BCDD598-8AA2-5451-B4D8-40E80FAD294D
- d. scientificName: Sigalionidae; taxonConceptID: Sigalionidae sp. (NHM_342); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Sigalionidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4137; locationRemarks: Deployment EB07; at Station U7; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°27.26; verbatimLongitude: 116°36.77; decimalLatitude: 12.45433; decimalLongitude: -116.61283; geodeticDatum: WGS84; eventID: UK1_AB02_EB07; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-03; eventTime: 20:40; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.576; recordNumber: NHM_1478; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126756; associatedSequences: OQ746683 (16S) | OQ738586 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: B73A340D-71B4-5201-BB20-746A3519B408
- e. scientificName: Sigalionidae; taxonConceptID: Sigalionidae sp. (NHM_342); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Sigalionidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4137; locationRemarks: Deployment EB07; at Station U7; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°27.26; verbatimLongitude: 116°36.77; decimalLatitude: 12.45433; decimalLongitude: -116.61283; geodeticDatum: WGS84; eventID: UK1_AB02_EB07; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-03; eventTime: 20:40; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.577; recordNumber: NHM_1479; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126191; associatedSequences: OQ746684 (16S) | OQ738587 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: F8FFC88C-7351-54D4-9429-A7F49757B676
- f. scientificName: Sigalionidae; taxonConceptID: Sigalionidae sp. (NHM_342); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Sigalionidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific;

- stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63; decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.573; recordNumber: NHM_0917F; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126570; associatedSequences: OQ746588 (16S) | OQ738546 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 1240810A-A434-5608-B59B-06E7064DB3D6
- g. scientificName: Sigalionidae; taxonConceptID: Sigalionidae sp. (NHM_342); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Sigalionidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4425; locationRemarks: Deployment EB02; at Station U5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°32.23; verbatimLongitude: 116°36.25; decimalLatitude: 12.53717; decimalLongitude: -116.60417; geodeticDatum: WGS84; eventID: UK1_AB02_EB02; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-20; eventTime: 06:24; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.572; recordNumber: NHM_0695; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174127382; associatedSequences: OQ746541 (16S) | OQ738532 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: F9A1A721-461C-5D26-B858-D54D89D9BDAC
- h. scientificName: Sigalionidae; taxonConceptID: Sigalionidae sp. (NHM_342); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Sigalionidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4202; locationRemarks: Deployment EB01; at Station U2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°23.17456; verbatimLongitude: 116°32.92021; decimalLatitude: 12.38624; decimalLongitude: -116.54867; geodeticDatum: WGS84; eventID: UK1_AB02_EB01; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-17; eventTime: 05:15; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.571; recordNumber: NHM_0605; recordedBy: Adrian Glover |

- Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126622; associatedSequences: OQ746535 (16S) | OQ738529 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 0D130D40-E5B1-5382-B308-31E97B88FB49
- i. scientificName: Sigalionidae; taxonConceptID: Sigalionidae sp. (NHM_342); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Sigalionidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4128; locationRemarks: Deployment EB04; at Station G-I; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°45.21N; verbatimLongitude: 116°29.12W; decimalLatitude: 13.75583; decimalLongitude: -116.48667; geodeticDatum: WGS84; eventID: UK1_AB01_EB04; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2013-10-17; eventTime: 01:50; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.570; recordNumber: NHM_0342; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127316; associatedSequences: OQ746500 (16S) | OQ746818 (18S) | OQ738514 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 22BA6487-4EC2-5947-91DB-5B291C670FC3

Diagnosis: Damaged specimens (Fig. 114) consistent with placement within family Sigalionidae, based on morphology and DNA.



Figure 114. [doi](#)

Sigalionidae sp. (NHM_342), live specimen NHM_605 in dorsal view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Sigalionidae sp. (NHM_881)

Materials

- a. scientificName: Sigalionidae; taxonConceptID: Sigalionidae sp. (NHM_881); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Sigalionidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4044; locationRemarks: Deployment BC12; at Station S6; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°08.695; verbatimLongitude: 117°19.526; decimalLatitude: 12.14492; decimalLongitude: -117.32543; geodeticDatum: WGS84; eventID: OMS1_AB02_BC12; samplingProtocol: USNEL Box Core; eventDate: 2015-03-02; eventTime: 02:20; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.580; recordNumber: NHM_1386; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174127357; associatedSequences: OQ738582 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 4A552BFD-FCBD-5014-92CA-F1B6215C25F7
- b. scientificName: Sigalionidae; taxonConceptID: Sigalionidae sp. (NHM_881); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Sigalionidae; taxonRank: family; scientificNameAuthorship: Kinberg, 1856; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63; decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.579; recordNumber: NHM_0881; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174127378; associatedSequences: OQ746863 (18S) | OQ738541 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: ED77ABD5-4C7D-59B2-ABD2-AD46F45415AA

Diagnosis: Damaged specimens (Fig. 115) consistent with placement within family Sigalionidae, based on morphology and DNA.

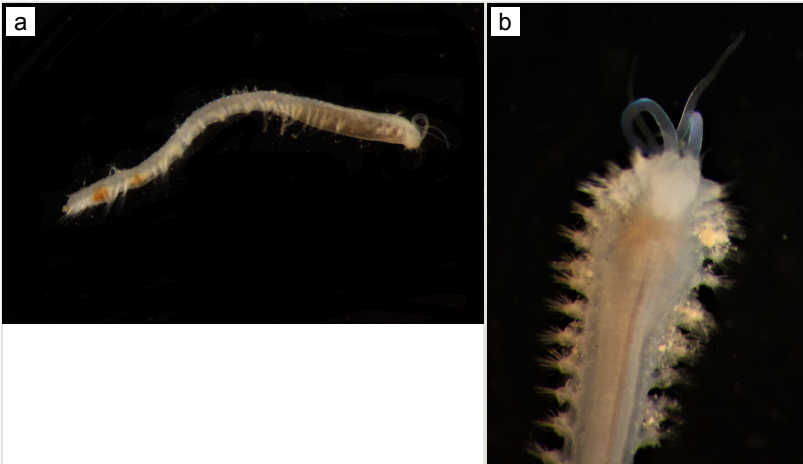


Figure 115.

Sigalionidae sp. (NHM_881)

a: Live specimen NHM_881 in ventrolateral view; [doi](#)

b: Anterior end of live specimen NHM_881 in dorsal view. [doi](#)

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Sigalionidae sp. (NHM_1093)

Material

- a. **scientificName:** Sigalionidae; **taxonConceptID:** Sigalionidae sp. (NHM_1093); **kingdom:** Animalia; **phylum:** Annelida; **class:** Polychaeta; **order:** Phyllodocida; **family:** Sigalionidae; **taxonRank:** family; **scientificNameAuthorship:** Kinberg, 1856; **waterBody:** Pacific; **stateProvince:** Clarion Clipperton Zone; **locality:** Ocean Mineral Singapore exploration claim Stratum A; **verbatimLocality:** OMS Stratum A; **maximumDepthInMeters:** 4100; **locationRemarks:** Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; **verbatimLatitude:** 12°06.93; **verbatimLongitude:** 117°09.87; **decimalLatitude:** 12.1155; **decimalLongitude:** -117.1645; **geodeticDatum:** WGS84; **eventID:** OMS1_AB02_EB05; **samplingProtocol:** Brenke Epibenthic Sledge; **eventDate:** 2015-02-26; **eventTime:** 21:29; **habitat:** Abyssal plain; **fieldNotes:** Collected from epi net (on the epibenthic sledge); **individualCount:** 1; **preparations:** specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; **catalogNumber:** NHMUK ANEA 2023.569; **recordNumber:** NHM_1093; **recordedBy:** Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; **otherCatalogNumbers:** 0174126787; **associatedSequences:** OQ746615 (16S) | OQ746875 (18S); **identifiedBy:** Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; **dateIdentified:** 2021-04-20; **identificationRemarks:** identified by DNA and morphology; **language:** en; **institutionCode:** NHMUK; **collectionCode:** ZOO; **datasetName:** ABYSSLINE; **basisOfRecord:** PreservedSpecimen; **occurrenceID:** 9C1DA962-69F9-554E-BCA3-0F65FE4C4914

Diagnosis: Damaged specimen (Fig. 116) consistent with placement within family Sigalionidae, based on morphology and DNA.



Figure 116. [doi](#)

Sigalionidae sp. (NHM_1093), anterior end of preserved specimen NHM_1093 in dorsal view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Sipuncula Stephen, 1964

Sipuncula sp. (NHM_126)

Materials

- a. scientificName: Sipuncula; taxonConceptID: Sipuncula sp. (NHM_126); kingdom: Animalia; phylum: Annelida; order: Sipuncula; taxonRank: family; scientificNameAuthorship: Stephen, 1965; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.590; recordNumber: NHM_1265; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126797; associatedSequences: OQ746647 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName:

ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 17DF65A3-BBDB-5CEB-869C-ED8024613204

- b. scientificName: Sipuncula; taxonConceptID: Sipuncula sp. (NHM_126); kingdom: Animalia; phylum: Annelida; order: Sipuncula; taxonRank: family; scientificNameAuthorship: Stephen, 1965; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4122; locationRemarks: Deployment EB04; at Station S1; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°08.02; verbatimLongitude: 117°17.52; decimalLatitude: 12.13367; decimalLongitude: -117.292; geodeticDatum: WGS84; eventID: OMS1_AB02_EB04; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-24; eventTime: 19:10; habitat: Abyssal plain; fieldNotes: Collected from supra net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.592; recordNumber: NHM_2189; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126736; associatedSequences: OQ746761 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 16D7FAF4-7CA5-5F07-9503-B127D99E7176
- c. scientificName: Sipuncula; taxonConceptID: Sipuncula sp. (NHM_126); kingdom: Animalia; phylum: Annelida; order: Sipuncula; taxonRank: family; scientificNameAuthorship: Stephen, 1965; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.589; recordNumber: NHM_1128; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126789; associatedSequences: OQ746619 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: BB6FF6ED-F840-5391-AE1E-F8CFEE6727B9
- d. scientificName: Sipuncula; taxonConceptID: Sipuncula sp. (NHM_126); kingdom: Animalia; phylum: Annelida; order: Sipuncula; taxonRank: family; scientificNameAuthorship: Stephen, 1965; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4080; locationRemarks: Deployment EB02; at Station C; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°45.500; verbatimLongitude: 116°41.911; decimalLatitude: 13.75833; decimalLongitude: -116.69852; geodeticDatum: WGS84; eventID: UK1_AB01_EB02;

samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2013-10-11; eventTime: 10:32; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.587; recordNumber: NHM_0126; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127349; associatedSequences: OQ746478 (16S) | OQ746799 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 4CA6611D-73F7-55C5-98C4-8DB040B82159

- e. scientificName: Sipuncula; taxonConceptID: Sipuncula sp. (NHM_126); kingdom: Animalia; phylum: Annelida; order: Sipuncula; taxonRank: family; scientificNameAuthorship: Stephen, 1965; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4137; locationRemarks: Deployment EB07; at Station U7; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°27.26; verbatimLongitude: 116°36.77; decimalLatitude: 12.45433; decimalLongitude: -116.61283; geodeticDatum: WGS84; eventID: UK1_AB02_EB07; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-03; eventTime: 20:40; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.591; recordNumber: NHM_1450; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126799; associatedSequences: OQ746680 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 1C7C7494-15C2-5540-8404-72AD3EA2EBFE
- f. scientificName: Sipuncula; taxonConceptID: Sipuncula sp. (NHM_126); kingdom: Animalia; phylum: Annelida; order: Sipuncula; taxonRank: family; scientificNameAuthorship: Stephen, 1965; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4425; locationRemarks: Deployment EB02; at Station U5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°32.23; verbatimLongitude: 116°36.25; decimalLatitude: 12.53717; decimalLongitude: -116.60417; geodeticDatum: WGS84; eventID: UK1_AB02_EB02; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-20; eventTime: 06:24; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.588; recordNumber: NHM_0745; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126811; associatedSequences: OQ746547 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName:

ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: D8A3814B-3B8E-5088-A493-3E0BEAA8EC94

Diagnosis: Specimens (Fig. 117) consistent with placement within Sipuncula, based on morphology and DNA.

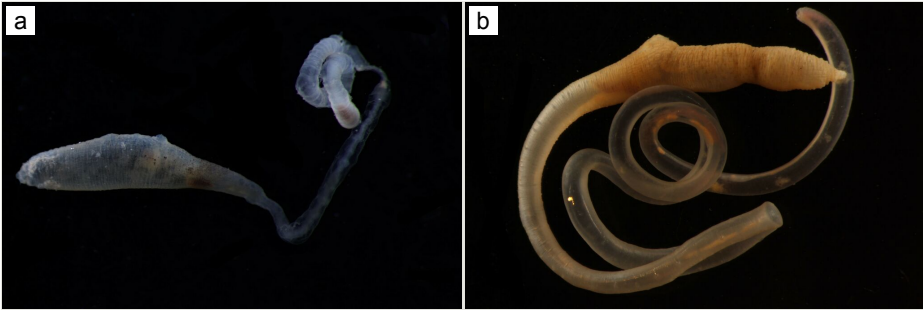


Figure 117.

Sipuncula sp. (NHM_126).

a: Live specimen NHM_126; [doi](#)

b: Live specimen NHM_1128. [doi](#)

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Sipuncula sp. (NHM_148)

Material

- a. scientificName: Sipuncula; taxonConceptID: Sipuncula sp. (NHM_148); kingdom: Animalia; phylum: Annelida; order: Sipuncula; taxonRank: family; scientificNameAuthorship: Stephen, 1965; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4080; locationRemarks: Deployment EB02; at Station C; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°45.500; verbatimLongitude: 116°41.911; decimalLatitude: 13.75833; decimalLongitude: -116.69852; geodeticDatum: WGS84; eventID: UK1_AB01_EB02; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2013-10-11; eventTime: 10:32; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.595; recordNumber: NHM_0148; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127363; associatedSequences: OQ746801 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: B03973D6-070C-5BA2-9272-0E5076CA1FED

Diagnosis: Specimen (Fig. 118) consistent with placement within Sipuncula, based on morphology and DNA.



Figure 118. [doi](#)

Sipuncula sp. (NHM_148), live specimen NHM_148, with remnants of the tube.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Sipuncula sp. (NHM_715)

Materials

- a. scientificName: Sipuncula; taxonConceptID: Sipuncula sp. (NHM_715); kingdom: Animalia; phylum: Annelida; order: Sipuncula; taxonRank: family; scientificNameAuthorship: Stephen, 1965; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44; verbatimLongitude: 117°18.13; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from supra net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.605; recordNumber: NHM_2191; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126800; associatedSequences: OQ746762 (16S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 0AF0D541-6860-56C7-91B5-90B2D2465F30
- b. scientificName: Sipuncula; taxonConceptID: Sipuncula sp. (NHM_715); kingdom: Animalia; phylum: Annelida; order: Sipuncula; taxonRank: family;

scientificNameAuthorship: Stephen, 1965; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.603; recordNumber: NHM_1126; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126739; associatedSequences: OQ746618 (16S) | OQ738557 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 4D70E954-4C0F-5841-8E83-2377EF0871BF

- c. scientificName: Sipuncula; taxonConceptID: Sipuncula sp. (NHM_715); kingdom: Animalia; phylum: Annelida; order: Sipuncula; taxonRank: family; scientificNameAuthorship: Stephen, 1965; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4100; locationRemarks: Deployment EB05; at Station S2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°06.93; verbatimLongitude: 117°09.87; decimalLatitude: 12.1155; decimalLongitude: -117.1645; geodeticDatum: WGS84; eventID: OMS1_AB02_EB05; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-26; eventTime: 21:29; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.604; recordNumber: NHM_1130; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126724; associatedSequences: OQ746620 (16S) | OQ738558 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 5B179B3F-4858-5C5C-AD20-829401E6EB69

- d. scientificName: Sipuncula; taxonConceptID: Sipuncula sp. (NHM_715); kingdom: Animalia; phylum: Annelida; order: Sipuncula; taxonRank: family; scientificNameAuthorship: Stephen, 1965; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63; decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA

- 2023.599; recordNumber: NHM_0923; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126748; associatedSequences: OQ746590 (16S) | OQ738548 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 6C893635-05C6-5D8B-889C-7D47A34416AC
- e. scientificName: Sipuncula; taxonConceptID: Sipuncula sp. (NHM_715); kingdom: Animalia; phylum: Annelida; order: Sipuncula; taxonRank: family; scientificNameAuthorship: Stephen, 1965; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63; decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.600; recordNumber: NHM_0923A; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126772; associatedSequences: OQ746589 (16S) | OQ738547 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 4E580A92-7CF4-5149-9CAF-F9DF09E5EFE4
- f. scientificName: Sipuncula; taxonConceptID: Sipuncula sp. (NHM_715); kingdom: Animalia; phylum: Annelida; order: Sipuncula; taxonRank: family; scientificNameAuthorship: Stephen, 1965; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63; decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.601; recordNumber: NHM_0935; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126763; associatedSequences: OQ746591 (16S) | OQ738549 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 92BB4D24-F341-5B7B-98AC-1062912B42B7
- g. scientificName: Sipuncula; taxonConceptID: Sipuncula sp. (NHM_715); kingdom: Animalia; phylum: Annelida; order: Sipuncula; taxonRank: family;

scientificNameAuthorship: Stephen, 1965; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4198; locationRemarks: Deployment EB03; at Station U4; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°34.28; verbatimLongitude: 116°36.63; decimalLatitude: 12.57133; decimalLongitude: -116.6105; geodeticDatum: WGS84; eventID: UK1_AB02_EB03; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-23; eventTime: 05:39; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.602; recordNumber: NHM_0938; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126810; associatedSequences: OQ746592 (16S) | OQ738550 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: F554899C-1665-50FE-951E-C6DD7885E316

- h. scientificName: Sipuncula; taxonConceptID: Sipuncula sp. (NHM_715); kingdom: Animalia; phylum: Annelida; order: Sipuncula; taxonRank: family; scientificNameAuthorship: Stephen, 1965; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4425; locationRemarks: Deployment EB02; at Station U5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°32.23; verbatimLongitude: 116°36.25; decimalLatitude: 12.53717; decimalLongitude: -116.60417; geodeticDatum: WGS84; eventID: UK1_AB02_EB02; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-20; eventTime: 06:24; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.597; recordNumber: NHM_0715; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126723; associatedSequences: OQ746543 (16S) | OQ738533 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 4738002E-6CAC-5F59-BB22-F69769F0E798

- i. scientificName: Sipuncula; taxonConceptID: Sipuncula sp. (NHM_715); kingdom: Animalia; phylum: Annelida; order: Sipuncula; taxonRank: family; scientificNameAuthorship: Stephen, 1965; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4425; locationRemarks: Deployment EB02; at Station U5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°32.23; verbatimLongitude: 116°36.25; decimalLatitude: 12.53717; decimalLongitude: -116.60417; geodeticDatum: WGS84; eventID: UK1_AB02_EB02; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-20; eventTime: 06:24; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA

2023.598; recordNumber: NHM_0816; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126796; associatedSequences: OQ746563 (16S) | OQ738536 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: E2E843DA-E68D-55C5-92BF-E66FC8B970B8

- j. scientificName: Sipuncula; taxonConceptID: Sipuncula sp. (NHM_715); kingdom: Animalia; phylum: Annelida; order: Sipuncula; taxonRank: family; scientificNameAuthorship: Stephen, 1965; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4202; locationRemarks: Deployment EB01; at Station U2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°23.17456; verbatimLongitude: 116°32.92021; decimalLatitude: 12.38624; decimalLongitude: -116.54867; geodeticDatum: WGS84; eventID: UK1_AB02_EB01; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-17; eventTime: 05:15; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.596; recordNumber: NHM_0603; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126784; associatedSequences: OQ746847 (18S) | OQ738528 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: B7B494A2-A040-5F16-84AE-356BC1E1F237

Diagnosis: Specimens (Fig. 119) consistent with placement within Sipuncula, based on morphology and DNA.

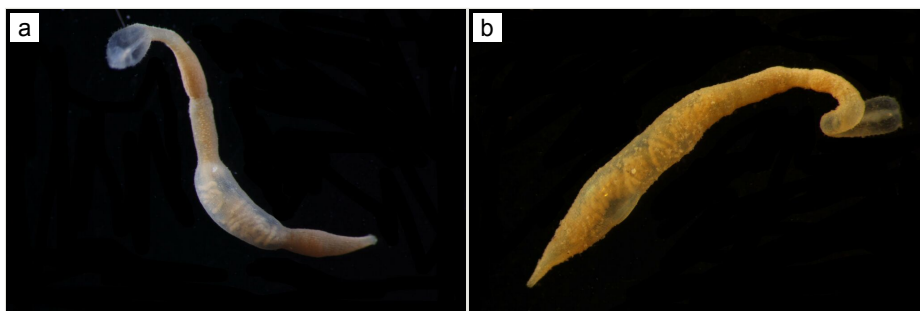


Figure 119.

Sipuncula sp. (NHM_715).

a: Live specimen NHM_715; [doi](#)

b: Live specimen NHM_603. [doi](#)

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Sipuncula sp. (NHM_1298)

Materials

- a. scientificName: *Sipuncula*; taxonConceptID: *Sipuncula* sp. (NHM_1298); kingdom: Animalia; phylum: Annelida; order: Sipuncula; taxonRank: family; scientificNameAuthorship: Stephen, 1965; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4302; locationRemarks: Deployment EB06; at Station S5; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°15.44'; verbatimLongitude: 117°18.13'; decimalLatitude: 12.25733; decimalLongitude: -117.30217; geodeticDatum: WGS84; eventID: OMS1_AB02_EB06; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-01; eventTime: 04:02; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.593; recordNumber: NHM_1298; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126786; associatedSequences: OQ746652 (16S) | OQ746886 (18S) | OQ738576 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: A125CE6C-CD71-5D4D-8B09-EFB8A4EC6174
- b. scientificName: *Sipuncula*; taxonConceptID: *Sipuncula* sp. (NHM_1298); kingdom: Animalia; phylum: Annelida; order: Sipuncula; taxonRank: family; scientificNameAuthorship: Stephen, 1965; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4202; locationRemarks: Deployment EB01; at Station U2; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°23.17456'; verbatimLongitude: 116°32.92021'; decimalLatitude: 12.38624; decimalLongitude: -116.54867; geodeticDatum: WGS84; eventID: UK1_AB02_EB01; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-17; eventTime: 05:15; habitat: Abyssal plain; fieldNotes: Collected from supra net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.594; recordNumber: NHM_2501; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126287; associatedSequences: OQ738614 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: F314AF5F-E15E-552E-A9AA-7291DE027791

Diagnosis: Specimen (Fig. 120) consistent with placement within *Sipuncula*, based on morphology and DNA.



Figure 120. [doi](#)

Sipuncula sp. (NHM_1298), live specimen NHM_1298.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Sphaerodoridae Malmgren, 1867

Sphaerodoridae sp. (NHM_1003)

Material

- a. scientificName: Sphaerodoridae; taxonConceptID: Sphaerodoridae sp. (NHM_1003); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Sphaerodoridae; taxonRank: family; scientificNameAuthorship: Malmgren, 1867; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Ocean Mineral Singapore exploration claim Stratum A; verbatimLocality: OMS Stratum A; maximumDepthInMeters: 4122; locationRemarks: Deployment EB04; at Station S1; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°08.02; verbatimLongitude: 117°17.52; decimalLatitude: 12.13367; decimalLongitude: -117.292; geodeticDatum: WGS84; eventID: OMS1_AB02_EB04; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-02-24; eventTime: 19:10; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.581; recordNumber: NHM_1003; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126751; associatedSequences: OQ746870 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: EF51AD2B-AD14-5733-BD71-4BC011307B01

Diagnosis: Damaged specimen (Fig. 121) consistent with placement within family Sphaerodoridae, based on morphology and DNA.



Figure 121. [doi](#)

Sphaerodoridae sp. (NHM_1003), complete preserved specimen NHM_1003. Scale bar 1 mm.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Sphaerodoridae sp. (NHM_2177)

Material

- a. scientificName: Sphaerodoridae; taxonConceptID: Sphaerodoridae sp. (NHM_2177); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Sphaerodoridae; taxonRank: family; scientificNameAuthorship: Malmgren, 1867; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: Area of Particular Interest APEI-6; verbatimLocality: APEI-6; maximumDepthInMeters: 4141; locationRemarks: Deployment BC28; at Station A01; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 19 27.998; verbatimLongitude: 120 00.172; decimalLatitude: 19.46663; decimalLongitude: 120.00287; geodeticDatum: WGS84; eventID: APEI6_AB02_BC28; samplingProtocol: USNEL Box Core; eventDate: 2015-03-21; eventTime: 19:50; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.582; recordNumber: NHM_2177; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126232; associatedSequences: OQ746912 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 606B9581-C249-5E0D-8616-121B842BA00F

Diagnosis: Damaged specimen (Fig. 122) consistent with placement within family Sphaerodoridae, based on morphology and DNA.



Figure 122. [doi](#)

Sphaerodoridae sp. (NHM_2177), preserved specimen NHM_2177 in dorsal view. Scale bar 1 mm.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Sphaerodoridae sp. (NHM_2532)

Material

- a. scientificName: Sphaerodoridae; taxonConceptID: Sphaerodoridae sp. (NHM_2532); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Phyllodocida; family: Sphaerodoridae; taxonRank: family; scientificNameAuthorship: Malmgren, 1867; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum B; verbatimLocality: UK1 Stratum B; maximumDepthInMeters: 4137; locationRemarks: Deployment EB07; at Station U7; from R/V Thomas G. Thompson Cruise no. TN319; verbatimLatitude: 12°27.26; verbatimLongitude: 116°36.77; decimalLatitude: 12.45433; decimalLongitude: -116.61283; geodeticDatum: WGS84; eventID: UK1_AB02_EB07; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2015-03-03; eventTime: 20:40; habitat: Abyssal plain; fieldNotes: Collected from supra net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.583; recordNumber: NHM_2532; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Madeleine Brasier; otherCatalogNumbers: 0174126200; associatedSequences: OQ746778 (16S) | OQ738615 (COI); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 1AB54D75-1F53-55E0-A803-1B66FE2B70E1

Diagnosis: Damaged specimen (Fig. 123) consistent with placement within family Sphaerodoridae, based on morphology and DNA.



Figure 123. [doi](#)

Sphaerodoridae sp. (NHM_2532), complete preserved specimen NHM_2532. Scale bar 1 mm.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Terebellidae Johnston, 1846

Terebellidae sp. (NHM_018)

Material

- a. scientificName: Terebellidae; taxonConceptID: Terebellidae sp. (NHM_018); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Terebellidae; taxonRank: family; scientificNameAuthorship: Johnston, 1846; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4336; locationRemarks: Deployment EB01; at Station B-K-E; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°50.232; verbatimLongitude: 116°33.506; decimalLatitude: 13.8372; decimalLongitude: -116.55843; geodeticDatum: WGS84; eventID: UK1_AB01_EB01; samplingProtocol: Brenke Epibenthic Sledge; eventDate: 2013-10-09; eventTime: 10:26; habitat: Abyssal plain; fieldNotes: Collected from epi net (on the epibenthic sledge); individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.584; recordNumber: NHM_0018; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127321; associatedSequences: OQ746467 (16S) | OQ746790 (18S); identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20; identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK;

collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen;
occurrenceID: A45B54E5-1A80-5AD6-9D20-561594EB62CB

Diagnosis: Damaged specimen (Fig. 124) consistent with placement within family Terebellidae, based on morphology and DNA.

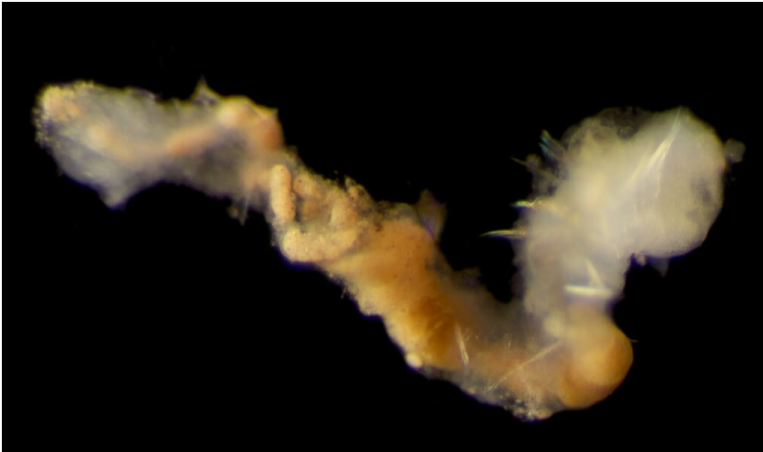


Figure 124. [doi](#)

Terebellidae sp. (NHM_018), damaged live specimen NHM_018 in dorsolateral view.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Trichobranchidae Malmgren, 1866

Terebellides sp. (NHM_167)

Material

- a. scientificName: *Terebellides*; taxonConceptID: *Terebellides* sp. (NHM_167); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Trichobranchidae; taxonRank: genus; genus: *Terebellides*; scientificNameAuthorship: Sars, 1835; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4084; locationRemarks: Deployment BC06; at Station D; from R/V Melville Cruise no. MV1313; verbatimLatitude: 13°57.794; verbatimLongitude: 116°34.093; decimalLatitude: 13.96323; decimalLongitude: -116.56822; geodeticDatum: WGS84; eventID: UK1_AB01_BC06; samplingProtocol: USNEL Box Core; eventDate: 2013-10-12; eventTime: 23:01:00; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.585; recordNumber: NHM_0167; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127348; associatedSequences: OQ746482 (16S);

identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20;
 identificationRemarks: identified by DNA and morphology; language: en; institutionCode: NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord: PreservedSpecimen; occurrenceID: 05E83A05-F47E-53C6-9074-5A3DDB7594F5

Diagnosis: Damaged specimen (Fig. 125) consistent with placement within genus *Terebellides*, based on morphology and DNA.

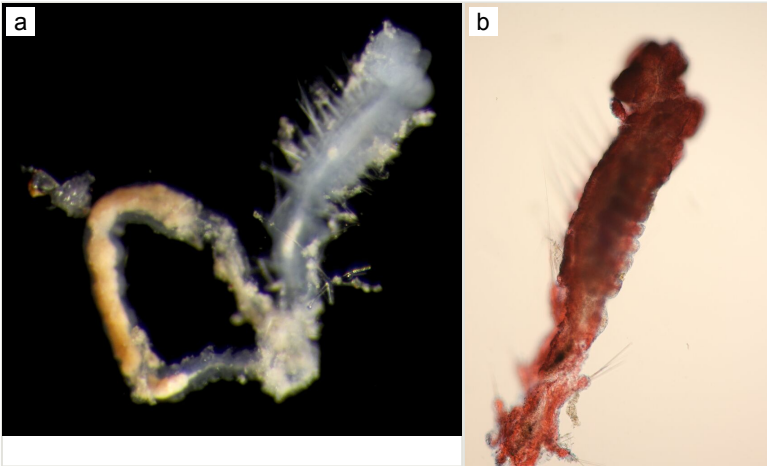


Figure 125.

Terebellides sp. (NHM_167)

a: Live specimen NHM_167 in dorsal view [doi](#)

b: Preserved specimen NHM_167 in lateral view, branchiae visible. [doi](#)

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Terebellides sp. (NHM_406)

Material

- a. scientificName: *Terebellides*; taxonConceptID: *Terebellides* sp. (NHM_406); kingdom: Animalia; phylum: Annelida; class: Polychaeta; order: Terebellida; family: Trichobranchidae; taxonRank: genus; genus: *Terebellides*; scientificNameAuthorship: Sars, 1835; waterBody: Pacific; stateProvince: Clarion Clipperton Zone; locality: UK Seabed Resources Ltd exploration area UK-1 Stratum A; verbatimLocality: UK1 Stratum A; maximumDepthInMeters: 4500; locationRemarks: Deployment BC12; at Station K; from R/V Melville Cruise no. MV1313; decimalLatitude: 13.86328; decimalLongitude: -116.54885; geodeticDatum: WGS84; eventID: UK1_AB01_BC12; samplingProtocol: USNEL Box Core; eventDate: 2013-10-20; eventTime: 03:39; habitat: Abyssal plain; fieldNotes: Collected from 0-2 cm layer of box core using a 300 micron sieve; individualCount: 1; preparations: specimen stored in 80% non-denatured ethanol aqueous solution | DNA voucher stored in buffer; catalogNumber: NHMUK ANEA 2023.586; recordNumber: NHM_0406; recordedBy: Adrian Glover | Helena Wiklund | Thomas Dahlgren | Magdalena Georgieva; otherCatalogNumbers: 0174127322;

associatedSequences: OQ746509 (16S) | OQ746826 (18S) | OQ738517 (COI);
identifiedBy: Helena Wiklund | Lenka Neal | Thomas Dahlgren | Adrian Glover | Madeleine
Brasier | Regan Drennan | Eva Stewart; dateIdentified: 2021-04-20;
identificationRemarks: identified by DNA and morphology; language: en; institutionCode:
NHMUK; collectionCode: ZOO; datasetName: ABYSSLINE; basisOfRecord:
PreservedSpecimen; occurrenceID: B277B1D4-E96D-58C4-AADE-DB50AA58011A

Diagnosis: Damaged specimen (Fig. 126) consistent with placement within genus *Terebellides*, based on morphology and DNA.

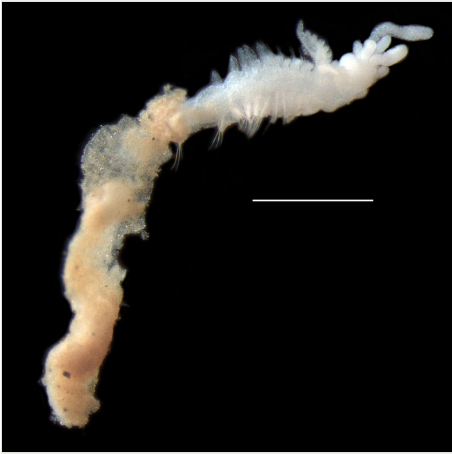


Figure 126. [doi](#)

Terebellides sp. (NHM_406), live specimen NHM_406 in lateral view. Scale bar 500 μ m.

Distribution: Eastern Clarion-Clipperton Zone, central Pacific Ocean.

Discussion

Species checklists are critical tools in biodiversity and conservation that can be used to underpin our understanding of biological change and appropriate policy measures (Reyserhove et al. 2020, Rabone et al. 2023b). However, checklists are of limited value if the data are not freely available. Therefore, the emphasis of this publication is on open data following the FAIR principles (Wilkinson et al. 2016). Recent years have seen an increased emphasis on FAIR data, resulting in a resurgence in the public availability of checklists (Rabone et al. 2023a, Rabone et al. 2023b), also exemplified by the success of the [World Register of Marine Species](#).

More often than not, ecological papers describing biodiversity do not include a list of all the species and specimens used to make the broader ecological inferences and even more rarely make the specimens and all associated metadata available in a FAIR way (Bianchi and Gonçalves 2021). In this study, we have made a significant and time-consuming attempt to do this, in a region of the global oceans where critical policy decisions are being

made that could impact the way humanity obtains its resources and manages its environment in a sustainable way.

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Author contributions

Helena Wiklund, Adrian Glover, Thomas Dahlgren and Lenka Neal conceived and project-managed the study. Lenka Neal wrote, organised and arranged the figures and systematics sections. Muriel Rabone created the DwC database of the taxon treatments for the checklist. Eva Stewart carried out the barcode gap analysis and produced the figures. Regan Drennan contributed to the systematics section. Emma Sherlock contributed the NHM accessioning work including final curation of specimens. Corie Boolukos and Lucas King assisted with the curation of specimens both for the NHM main collection and for the molecular archive in the Molecular Collection facility and assisted with data handling. Craig Smith led all the ABYSSLINE research cruises. All authors contributed significantly to the production of the checklist and the manuscript and including revisions of drafts and approved the final manuscript.

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Supplementary materials

Suppl. material 1: Genetic Matches from GenBank [doi](#)

Authors: Lenka Neal, Lucas King

Data type: genetic

Brief description: Table of COI genetic matches obtained by BLAST search from GenBank. Only matches > 98% were considered.

[Download file](#) (74.29 kb)

Suppl. material 2: Combined Darwin Core from taxon treatments in checklist

Authors: Muriel Rabone

Data type: occurrences

Brief description: Table of all Darwin Core taxon treatments included in the checklist herein.

[Download file](#) (313.90 kb)