

Net Sample Data Documentation

Introduction

During the PRIME cruise, studies centring on Ocean Weather Station India and the over-wintering zooplankton study by FRS Marine Laboratory, Aberdeen, several hundred different parameters were determined on net catches. The aim of this document is to allow the protocol used to obtain any particular data value within the NETDATA table to be determined with ease.

To help you find the information you require quickly, the document is subdivided into sections that describe groups of closely related parameters. These are listed below as a series of hot links. Each section starts with the definition of the parameter codes covered, followed by a list of who measured one or more of those parameters. Next, there is a protocol section describing the methods used by each principal investigator.

<TIP> If you want to find out how a particular parameter was measured and know the parameter code then the fastest way to find the information you require is to use the *Acrobat* 'find' tool to search for the parameter code. Then use the 'find' tool again to search for the name of the principal investigator. This will take you straight to the protocol description you require.

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Chlorophyll

Chlorophyll-a determined by fluorometry.

OPC Counts

Abundance of four size categories as defined by the Optical Plankton Counter

Mesozooplankton abundances

Abundances of four key species and their developmental stages, plus broader taxonomic groupings.

References

Full references for the papers cited in the protocol descriptions.

Pigments

Parameter Code Definitions

CPHLZZXX	Chlorophyll-a µg/litre Unspecified method
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Originator Code Definitions

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Originator Protocols

Chlorophyll concentrations were measured fluorometrically by a Chelsea Instruments Aquatracka during deployments of U-Tow, a small towed body for sampling mesozooplankton over extended spatial scales (see Hays et. al. 1998). Calibration was against samples of 250ml taken from the ship's non-toxic supply (approximate depth 5 metres) at roughly 2 hourly intervals. They were filtered and extracted in 10ml acetone for 24-72 hours at 4°C, then measured using a Turner bench fluorometer, calibrated against known standards.

The calibrated output from the Aquatrakka was then averaged over the duration of each plankton sample taken by the U-Tow. The U-Tow – although capable of undulating - was configured to operate at a fixed depth of 10 metres, taking a plankton sample every 54 minutes. Thus each averaged chlorophyll concentration represents an integrated measurement over an approximate distance of 16.5 km given an average towing speed of 10 knots. The volume filtered for each plankton sample was measured by an electromagnetic flowmeter (Valeport Model 802) positioned at the outlet of the Plankton Sampling Mechanism within the body of the U-Tow. A Valeport Model 600 MK III CTD mounted inside the U-Tow body measured temperature and salinity.

OPC Counts

Parameter Code Definitions

ZV00C00A	Zooplankton biovolume (250-500µm) Optical Plankton Counter	parts per billion by volume
ZV00C00B	Zooplankton biovolume (500-1000µm) Optical Plankton Counter	parts per billion by volume
ZV00C00C	Zooplankton biovolume (1000-2000µm) Optical Plankton Counter	parts per billion by volume
ZV00C00D	Zooplankton biovolume (>2000µm) Optical Plankton Counter	parts per billion by volume

Originator Code Definitions

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Originator Protocols

Dr. Chris Gallienne

A laboratory OPC and video system was used in pump-through mode to sample the catch from 200 metre depth-to-surface WP-2 net hauls. An in-line flow meter was installed to give a record of volume of water passing through the OPC. Abundances by volume were derived for zooplankton in the size range 0.25 - 16 mm in equivalent spherical diameter. Although the initial sampling rate was 2 Hertz, data were integrated over 30 seconds to give enough animals for a reasonable description of size community structure. Validation was by means of a laboratory calibration against spherical glass beads of known size. Further details are given in Gallienne et al. (1996).

Mesozooplankton abundance

Parameter Code Definitions

Z000M00C	Invertebrate spp. eggs	Optical microscopy	per litre
Z011M00Z	Foraminifera	Optical microscopy	per litre
Z012M00Z	Radiolaria	Optical microscopy	per litre
Z130M00Z	Chaetognatha	Optical microscopy	per litre
Z131M01Z	Sagitta elegans	Optical microscopy	per litre
Z131M02Z	Sagitta serratodentata	Optical microscopy	per litre
Z131M03Z	Sagitta maxima	Optical microscopy	per litre
Z131M04Z	Sagitta lyra	Optical microscopy	per litre
Z131M05Z	Sagitta macrocephala.	Optical microscopy	per litre
Z131M06Z	Sagitta enflata.	Optical microscopy	per litre
Z131M07Z	Sagitta planktonis-zetesios.	Optical microscopy	per litre
Z131M08Z	Sagitta elegans-arctica.	Optical microscopy	per litre
Z132M00Z	Eukrohnia spp.	Optical microscopy	per litre
Z132M01Z	Eukrohnia hamata	Optical microscopy	per litre
Z132M02Z	Eukrohnia fowleri	Optical microscopy	per litre
Z210M00L	Cirripedia cypris	Optical microscopy	per litre
Z250M00Q	Decapoda spp.adult	Optical microscopy	per litre
Z250M00R	Decapod spp.larvae	Optical microscopy	per litre
Z251M00R	Mysidacea spp.lar	Optical microscopy	per litre
Z251M00Z	Mysidacea	Optical microscopy	per litre
Z252M00Z	Eucopia spp.	Optical microscopy	per litre
Z253M00Z	Cumacea	Optical microscopy	per litre
Z254M00S	Isopoda spp.parasitic	Optical microscopy	per litre
Z255M01Q	Benthosema glacialis.adult	Optical microscopy	per litre
Z256M01Q	Hymenodora glacialis.adult	Optical microscopy	per litre
Z256M01V	Hymenodora glacialis.postlar	Optical microscopy	per litre
Z260M00Z	Amphipoda	Optical microscopy	per litre
Z261M00S	Bopyridae spp.parasitic	Optical microscopy	per litre
Z262M00Z	Hyperiididae	Optical microscopy	per litre
Z263M01Z	Parathemisto abyssorum	Optical microscopy	per litre
Z263M02Z	Parathemisto gaudichaudi	Optical microscopy	per litre
Z264M01Z	Scina borealis.	Optical microscopy	per litre
Z265M01Z	Tryphosella horingi	Optical microscopy	per litre
Z266M01Z	Tmetonyx scicada	Optical microscopy	per litre
Z267M00Z	Eusiridae spp.	Optical microscopy	per litre
Z268M00Z	Pseudotiron spp.	Optical microscopy	per litre
Z270M00Z	Euphausiacea	Optical microscopy	per litre
Z271M01Q	Meganyctiphanes norvegica.adult	Optical microscopy	per litre
Z272M01Q	Thysanoessa inermis.adult	Optical microscopy	per litre
Z272M02Q	Thysanoessa longicaudata.adult	Optical microscopy	per litre
Z273M01Q	Euphausia krohni.adult	Optical microscopy	per litre
Z291M00Z	Ostracoda- myodocopina spp.	Optical microscopy	per litre
Z292M00G	Ostracoda- halocypridina.spp-juv	Optical microscopy	per litre
Z292M00Z	Ostracoda-halocypridina spp.	Optical microscopy	per litre
Z293M00Z	Bathyconchoecia spp.	Optical microscopy	per litre
Z294M00Z	Conchoecinae spp.	Optical microscopy	per litre

Z295M00Z	Conchoecia spp.	Optical microscopy	per litre
Z295M26Z	Conchoecia macrocera	Optical microscopy	per litre
Z295M27Z	Conchoecia arcuata	Optical microscopy	per litre
Z296M01Z	Archiconchoecia cucullata.	Optical microscopy	per litre
Z301M00H	Acartia spp.c6f	Optical microscopy	per litre
Z301M00J	Acartia spp.c1-5	Optical microscopy	per litre
Z301M00W	Acartia spp. c1-4	Optical microscopy	per litre
Z301M00Z	Acartia spp.	Optical microscopy	per litre
Z301M01H	Acartia clausi.c6f	Optical microscopy	per litre
Z301M01I	Acartia clausi.c6m	Optical microscopy	per litre
Z301M02H	Acartia longeremis.c6f	Optical microscopy	per litre
Z302M00C	Calanus spp.c3	Optical microscopy	per litre
Z302M00D	Calanus spp.c4	Optical microscopy	per litre
Z302M01A	Calanus finmarchicus C1	Optical microscopy	per litre
Z302M01B	Calanus finmarchicus C2	Optical microscopy	per litre
Z302M01C	Calanus finmarchicus C3	Optical microscopy	per litre
Z302M01D	Calanus finmarchicus C4	Optical microscopy	per litre
Z302M01E	Calanus finmarchicus C5	Optical microscopy	per litre
Z302M01F	Calanus finmarchicus C6	Optical microscopy	per litre
Z302M01H	Calanus finmarchicus.c6 female	Optical microscopy	per litre
Z302M01I	Calanus finmarchicus.c6 male	Optical microscopy	per litre
Z302M02E	Calanus helgolandicus c5	Optical microscopy	per litre
Z302M02H	Calanus helgolandicus.c6 female	Optical microscopy	per litre
Z302M03B	Calanus hyperboreus.c2	Optical microscopy	per litre
Z302M03C	Calanus hyperboreus.c3	Optical microscopy	per litre
Z302M03D	Calanus hyperboreus.c4	Optical microscopy	per litre
Z302M03E	Calanus hyperboreus.c5	Optical microscopy	per litre
Z302M03H	Calanus hyperboreus.c6f	Optical microscopy	per litre
Z302M03I	Calanus hyperboreus.c6 male	Optical microscopy	per litre
Z302M04H	Calanus tenuicornis.c6 female	Optical microscopy	per litre
Z302M04I	Calanus tenuicornis.c6 male	Optical microscopy	per litre
Z302M04J	Calanus tenuicornis.c1-5	Optical microscopy	per litre
Z303M00J	Pareuchaeta spp.c1-5	Optical microscopy	per litre
Z303M01A	Euchaeta norvegica C1	Optical microscopy	per litre
Z303M01B	Euchaeta norvegica C2	Optical microscopy	per litre
Z303M01C	Euchaeta norvegica C3	Optical microscopy	per litre
Z303M01D	Euchaeta norvegica C4	Optical microscopy	per litre
Z303M01E	Euchaeta norvegica C5	Optical microscopy	per litre
Z303M01F	Euchaeta norvegica C6	Optical microscopy	per litre
Z303M01H	Pareuchaeta norvegica.c6f	Optical microscopy	per litre
Z303M01I	Pareuchaeta norvegica.c6m	Optical microscopy	per litre
Z303M01J	Pareuchaeta norvegica.c1-5	Optical microscopy	per litre
Z303M02H	Pareuchaeta barbata.c6f	Optical microscopy	per litre
Z303M02I	Pareuchaeta barbata.c6m	Optical microscopy	per litre
Z303M03H	Pareuchaeta glacialis.c6f	Optical microscopy	per litre
Z303M03I	Pareuchaeta glacialis.c6m	Optical microscopy	per litre
Z303M03J	Pareuchaeta glacialis.c1-5	Optical microscopy	per litre
Z303M04H	Pareuchaeta bradyi.c6f	Optical microscopy	per litre
Z304M00J	Metridia spp.c1-5	Optical microscopy	per litre
Z304M01A	Metridia lucens C1	Optical microscopy	per litre
Z304M01B	Metridia lucens C2	Optical microscopy	per litre
Z304M01C	Metridia lucens C3	Optical microscopy	per litre

Z304M01D	Metridia lucens C4	Optical microscopy	per litre
Z304M01E	Metridia lucens C5	Optical microscopy	per litre
Z304M01F	Metridia lucens C6	Optical microscopy	per litre
Z304M01H	Metridia lucens.c6f	Optical microscopy	per litre
Z304M01I	Metridia lucens.c6m	Optical microscopy	per litre
Z304M01J	Metridia lucens.c1-5	Optical microscopy	per litre
Z304M02H	Metridia longa.c6f	Optical microscopy	per litre
Z304M02I	Metridia longa.c6m	Optical microscopy	per litre
Z304M02J	Metridia longa.c1-5	Optical microscopy	per litre
Z304M03H	Metridia princeps.c6f	Optical microscopy	per litre
Z304M03J	Metridia princeps.c1-5	Optical microscopy	per litre
Z304M04H	Metridia venusta.c6f	Optical microscopy	per litre
Z304M04I	Metridia venusta.c6m	Optical microscopy	per litre
Z304M04J	Metridia venusta.c1-5	Optical microscopy	per litre
Z304M05H	Metridia brevicauda.c6f	Optical microscopy	per litre
Z304M05I	Metridia brevicauda.c6m	Optical microscopy	per litre
Z304M05J	Metridia brevicauda.c1-5	Optical microscopy	per litre
Z304M06H	Metridia discreta.c6f	Optical microscopy	per litre
Z306M00M	Oithona spp.n1-6	Optical microscopy	per litre
Z306M00Z	Oithona spp.	Optical microscopy	per litre
Z306M01K	Oithona plumifera.c1-6	Optical microscopy	per litre
Z307M00Z	Oncaea spp.	Optical microscopy	per litre
Z307M01K	Oncaea conifera C1-6	Optical microscopy	per litre
Z308M00J	Pleuromamma spp.c1-5	Optical microscopy	per litre
Z308M01A	Pleuromamma robusta C1	Optical microscopy	per litre
Z308M01B	Pleuromamma robusta C2	Optical microscopy	per litre
Z308M01C	Pleuromamma robusta C3	Optical microscopy	per litre
Z308M01D	Pleuromamma robusta C4	Optical microscopy	per litre
Z308M01E	Pleuromamma robusta C5	Optical microscopy	per litre
Z308M01F	Pleuromamma robusta C6	Optical microscopy	per litre
Z308M01H	Pleuromamma robusta.c6f	Optical microscopy	per litre
Z308M01I	Pleuromamma robusta.c6m	Optical microscopy	per litre
Z308M01J	Pleuromamma robusta.c1-5	Optical microscopy	per litre
Z308M02H	Pleuromamma gracilis.c6f	Optical microscopy	per litre
Z308M02I	Pleuromamma gracilis.c6m	Optical microscopy	per litre
Z308M03H	Pleuromamma borealis.c6f	Optical microscopy	per litre
Z308M03I	Pleuromamma borealis.c6m	Optical microscopy	per litre
Z308M03J	Pleuromamma borealis.c1-5	Optical microscopy	per litre
Z309M01H	Neocalanus gracilis.c6 female	Optical microscopy	per litre
Z310M01H	Eucalanus elongatus.c6 female	Optical microscopy	per litre
Z310M01J	Eucalanus elongatus.c1-5	Optical microscopy	per litre
Z311M01H	Rhincalanus nasutus.c6 female	Optical microscopy	per litre
Z311M01J	Rhincalanus nasutus.c1-5	Optical microscopy	per litre
Z312M01H	Bathycalanus princeps.c6 female	Optical microscopy	per litre
Z313M00H	Paracalanidae spp.c6 female	Optical microscopy	per litre
Z313M00K	Paracalanidae spp.c1-6	Optical microscopy	per litre
Z314M00J	Paracalanus spp.c1-5	Optical microscopy	per litre
Z314M01H	Paracalanus parvus.c6 female	Optical microscopy	per litre
Z314M01J	Paracalanus parvus.c1-5	Optical microscopy	per litre
Z314M02H	Paracalanus aculeatus.c6 female	Optical microscopy	per litre
Z315M00K	Calocalanidae spp.c1-6	Optical microscopy	per litre
Z316M00J	Calocalanus spp.c1-5	Optical microscopy	per litre

Z316M01H	Calocalanus styliremis.c6 female	Optical microscopy	per litre
Z317M01H	Mecynocera clausi.c6 female	Optical microscopy	per litre
Z318M00H	Pseudocalanidae spp.c6 female	Optical microscopy	per litre
Z318M00I	Pseudocalanidae spp.c6 male	Optical microscopy	per litre
Z318M00J	Pseudocalanidae spp.c1-5	Optical microscopy	per litre
Z319M00H	Spinocalanus spp.c6 female	Optical microscopy	per litre
Z319M00J	Spinocalanus spp.c1-5	Optical microscopy	per litre
Z319M01H	S. abyssalis-pygmaeus.c6 female	Optical microscopy	per litre
Z319M01I	S.abbyssalis-pygmaeus.c6 male	Optical microscopy	per litre
Z319M01J	S.abbyssalis-pygmaeus.c1-5	Optical microscopy	per litre
Z319M02H	Spinocalanus magnus.c6 female	Optical microscopy	per litre
Z319M03H	Spinocalanus spinosus.c6 female	Optical microscopy	per litre
Z319M04H	Spinocalanus abyssalis.c6 fem	Optical microscopy	per litre
Z319M04J	Spinocalanus abyssalis.c1-5	Optical microscopy	per litre
Z319M05H	Spinocalanus brevicaudatus.c6f	Optical microscopy	per litre
Z319M05I	Spinocalanus brevicaudatus.c6m	Optical microscopy	per litre
Z319M05J	Spinocalanus brevicaudatus.c1-5	Optical microscopy	per litre
Z319M06H	Spinocalanus longicornis.c6f	Optical microscopy	per litre
Z319M07H	Spinocalanus usitatus.c6 female	Optical microscopy	per litre
Z319M08H	Spinocalanus polaris.c6 female	Optical microscopy	per litre
Z320M00K	Drepanopsis spp.c1-6	Optical microscopy	per litre
Z321M01H	Mimocalanus cultrifer.c6 female	Optical microscopy	per litre
Z322M01H	Pseudocalanus minutus.c6 f	Optical microscopy	per litre
Z322M01J	Pseudocalanus minutus.c1-5	Optical microscopy	per litre
Z323M00H	Microcalanus spp.c6 female	Optical microscopy	per litre
Z323M00I	Microcalanus spp.c6 male	Optical microscopy	per litre
Z323M00J	Microcalanus spp.c1-5	Optical microscopy	per litre
Z323M01H	Microcalanus pygmaeus.c6f	Optical microscopy	per litre
Z323M01I	Microcalanus pygmaeus.c6m	Optical microscopy	per litre
Z323M01J	Microcalanus pygmaeus.c1-5	Optical microscopy	per litre
Z323M02H	Microcalanus pusillus.c6f	Optical microscopy	per litre
Z323M02I	Microcalanus pusillus.c6m	Optical microscopy	per litre
Z324M00H	Clausocalanus spp.c6f	Optical microscopy	per litre
Z324M00I	Clausocalanus spp.c6m	Optical microscopy	per litre
Z324M00J	Clausocalanus spp.c1-5	Optical microscopy	per litre
Z324M01H	Clausocalanus arcuicornis.c6f	Optical microscopy	per litre
Z324M02H	Clausocalanus pergens.c6f	Optical microscopy	per litre
Z324M02I	Clausocalanus pergens.c6m	Optical microscopy	per litre
Z324M02J	Clausocalanus pergens.c1-5	Optical microscopy	per litre
Z324M03H	Clausocalanus paululus.c6f	Optical microscopy	per litre
Z324M03I	Clausocalanus paululus.c6m	Optical microscopy	per litre
Z324M03J	clausocalanus paululus.c1-5	Optical microscopy	per litre
Z325M00H	Aetideidae spp.c6f	Optical microscopy	per litre
Z325M00I	Aetideidae spp.c6m	Optical microscopy	per litre
Z325M00J	Aetideidae spp.c1-5	Optical microscopy	per litre
Z326M00J	Aetideopsis spp.c1-5	Optical microscopy	per litre
Z326M01H	Aetideopsis rostrata.c6f	Optical microscopy	per litre
Z326M01J	Aetideopsis rostrata.c1-5	Optical microscopy	per litre
Z326M02H	Aetideopsis armata.c6f	Optical microscopy	per litre
Z326M03H	Aetideopsis multiserrata.c6f	Optical microscopy	per litre
Z327M00J	Aetideus spp.c1-5	Optical microscopy	per litre
Z327M01H	Aetideus armatus.c6f	Optical microscopy	per litre

Z327M01I	<i>Aetideus armatus.c6m</i>	Optical microscopy	per litre
Z328M00J	<i>Chiridius spp.c1-5</i>	Optical microscopy	per litre
Z328M01H	<i>Chiridius obtusifrons.c6f</i>	Optical microscopy	per litre
Z328M01I	<i>Chiridius obtusifrons.c6m</i>	Optical microscopy	per litre
Z328M02H	<i>Chiridius gracilis.c6f</i>	Optical microscopy	per litre
Z328M03H	<i>Chiridius poppei.c6f</i>	Optical microscopy	per litre
Z329M00I	<i>Gaetanus spp.c6m</i>	Optical microscopy	per litre
Z329M00J	<i>Gaetanus spp.c1-5</i>	Optical microscopy	per litre
Z329M04H	<i>Gaetanus pileatus.c6f</i>	Optical microscopy	per litre
Z329M05H	<i>Gaetanus kruppi.c6f</i>	Optical microscopy	per litre
Z329M05J	<i>Gaetanus kruppi.c1-5</i>	Optical microscopy	per litre
Z329M06H	<i>Gaetanus minor.c6f</i>	Optical microscopy	per litre
Z329M06J	<i>Gaetanus minor.c1-5</i>	Optical microscopy	per litre
Z330M01H	<i>Chirundina streetsi.c6f</i>	Optical microscopy	per litre
Z330M01J	<i>Chirundina streetsi.c1-5</i>	Optical microscopy	per litre
Z331M00H	<i>Pseudochirella spp.c6f</i>	Optical microscopy	per litre
Z331M00Z	<i>Pseudochirella spp.</i>	Optical microscopy	per litre
Z332M00J	<i>Undeuchaeta spp.c1-5</i>	Optical microscopy	per litre
Z332M01H	<i>Undeuchaeta plumosa.c6f</i>	Optical microscopy	per litre
Z332M01I	<i>Undeuchaeta plumosa.c6m</i>	Optical microscopy	per litre
Z333M00J	<i>Euchaeta spp.c1-5</i>	Optical microscopy	per litre
Z333M01H	<i>Euchaeta acuta.c6f</i>	Optical microscopy	per litre
Z333M01I	<i>Euchaeta acuta.c6m</i>	Optical microscopy	per litre
Z333M02I	<i>Euchaeta marina.c6m</i>	Optical microscopy	per litre
Z334M00K	<i>Phaennidae spp.c1-6</i>	Optical microscopy	per litre
Z335M01H	<i>Phyllopus helgae.c6f</i>	Optical microscopy	per litre
Z335M01I	<i>Phyllopus helgae.c6m</i>	Optical microscopy	per litre
Z335M01J	<i>Phyllopus helgae.c1-5</i>	Optical microscopy	per litre
Z335M02H	<i>Phyllopus impar.c6f</i>	Optical microscopy	per litre
Z336M01J	<i>Cephalophanes refulgens.c1-5</i>	Optical microscopy	per litre
Z337M01H	<i>Cornucalanus chelifer.c6f</i>	Optical microscopy	per litre
Z338M01H	<i>Onchocalanus cristatus.c6f</i>	Optical microscopy	per litre
Z338M02J	<i>Onchocalanus trigoniceps.c1-5</i>	Optical microscopy	per litre
Z339M00H	<i>Scolecithridae spp.c6f</i>	Optical microscopy	per litre
Z339M00I	<i>Scolecithridae spp.c6m</i>	Optical microscopy	per litre
Z339M00J	<i>Scolecithridae spp.c1-5</i>	Optical microscopy	per litre
Z340M00I	<i>Undinella spp.c6m</i>	Optical microscopy	per litre
Z341M01I	<i>Tharybis macrophthalma.c6m</i>	Optical microscopy	per litre
Z342M01H	<i>Scottocalanus securifrons.c6f</i>	Optical microscopy	per litre
Z343M00J	<i>Lophothrix spp.c1-5</i>	Optical microscopy	per litre
Z344M00H	<i>Scaphocalanus spp.c6f</i>	Optical microscopy	per litre
Z344M00J	<i>Scaphocalanus spp.c1-5</i>	Optical microscopy	per litre
Z344M01H	<i>Scaphocalanus magnus.c6f</i>	Optical microscopy	per litre
Z344M01J	<i>Scaphocalanus magnus.c1-5</i>	Optical microscopy	per litre
Z344M02H	<i>Scaphocalanus brevicornis.c6f</i>	Optical microscopy	per litre
Z344M03H	<i>Scaphocalanus angulifrons.c6f</i>	Optical microscopy	per litre
Z344M03J	<i>Scaphocalanus angulifrons.c1-5</i>	Optical microscopy	per litre
Z344M04H	<i>Scaphocalanus affinis.c6f</i>	Optical microscopy	per litre
Z344M04I	<i>Scaphocalanus affinis.c6m</i>	Optical microscopy	per litre
Z344M05H	<i>Scaphocalanus curtus.c6f</i>	Optical microscopy	per litre
Z344M06H	<i>Scaphocalanus medius.c6f</i>	Optical microscopy	per litre
Z344M07H	<i>Scaphocalanus echinatus.c6f</i>	Optical microscopy	per litre

Z345M00K	Amallothrix spp.c1-6	Optical microscopy	per litre
Z345M01H	Amallothrix valida.c6f	Optical microscopy	per litre
Z345M01I	Amallothrix valida.c6m	Optical microscopy	per litre
Z345M02H	Amallothrix gracilis.c6f	Optical microscopy	per litre
Z346M00H	Scolecithricella spp.c6f	Optical microscopy	per litre
Z346M00I	Scolecithricella spp.c6m	Optical microscopy	per litre
Z346M00J	Scolecithricella spp.c1-5	Optical microscopy	per litre
Z346M01H	Scolecithricella minor.c6f	Optical microscopy	per litre
Z346M01I	Scolecithricella minor.c6m	Optical microscopy	per litre
Z346M01J	Scolecithricella minor.c1-5	Optical microscopy	per litre
Z346M02H	Scolecithricella dentata.c6f	Optical microscopy	per litre
Z346M02I	Scolecithricella dentata.c6m	Optical microscopy	per litre
Z346M03H	Scolecithricella ovata.c6f	Optical microscopy	per litre
Z346M03J	Scolecithricella ovata.c1-5	Optical microscopy	per litre
Z346M04H	Scolecithricella abyssalis.c6f	Optical microscopy	per litre
Z346M04I	Scolecithricella abyssalis.c6m	Optical microscopy	per litre
Z347M01H	Temorites brevis.c6f	Optical microscopy	per litre
Z347M01I	Temorites brevis.c6m	Optical microscopy	per litre
Z348M01H	Temeropia minor.c6f	Optical microscopy	per litre
Z348M01I	Temeropia minor.c6m	Optical microscopy	per litre
Z348M02H	Temeropia mayumbaensis.c6f	Optical microscopy	per litre
Z349M01H	Centropages typicus.c6f	Optical microscopy	per litre
Z350M00J	Lucicutia spp.c1-5	Optical microscopy	per litre
Z350M01H	Lucicutia longiserrata.c6f	Optical microscopy	per litre
Z350M01I	Lucicutia longiserrata.c6m	Optical microscopy	per litre
Z350M02H	Lucicutia grandis.c6f	Optical microscopy	per litre
Z350M02I	Lucicutia grandis.c6m	Optical microscopy	per litre
Z350M02J	Lucicutia grandis.c1-5	Optical microscopy	per litre
Z350M03H	Lucicutia atlantica.c6f	Optical microscopy	per litre
Z350M03I	Lucicutia atlantica.c6fm	Optical microscopy	per litre
Z350M04H	Lucicutia macrocera.c6f	Optical microscopy	per litre
Z350M04I	Lucicutia macrocera.c6m	Optical microscopy	per litre
Z350M05H	Lucicutia curta.c6f	Optical microscopy	per litre
Z350M05I	Lucicutia curta.c6m	Optical microscopy	per litre
Z350M05J	Lucicutia curta.c1-5	Optical microscopy	per litre
Z350M06H	Lucicutia flavicornis.c6f	Optical microscopy	per litre
Z350M06I	Lucicutia flavicornis.c6m	Optical microscopy	per litre
Z350M07H	Lucicutia ovalis.c6f	Optical microscopy	per litre
Z350M08H	Lucicutia wolfendeni.c6f	Optical microscopy	per litre
Z350M09H	Lucicutia aurita.c6f	Optical microscopy	per litre
Z351M00H	Heterorhabdidae spp.c6f	Optical microscopy	per litre
Z351M00I	Heterorhabdidae spp.c6m	Optical microscopy	per litre
Z351M00J	Heterorhabdidae spp.c1-5	Optical microscopy	per litre
Z352M00J	Heterorhabdus spp.c1-5	Optical microscopy	per litre
Z352M01H	Heterorhabdus norvegica.c6f	Optical microscopy	per litre
Z352M01I	Heterorhabdus norvegica.c6m	Optical microscopy	per litre
Z352M02H	Heterorhabdus abyssalis.c6f	Optical microscopy	per litre
Z352M02I	Heterorhabdus abyssalis.c6m	Optical microscopy	per litre
Z352M03H	Heterorhabdus spinifrons.c6f	Optical microscopy	per litre
Z352M03I	Heterorhabdus spinifrons.c6m	Optical microscopy	per litre
Z352M04H	Heterorhabdus vipera.c6f	Optical microscopy	per litre
Z352M05I	Heterorhabdus papilliger.c6m	Optical microscopy	per litre

Z352M06H	Heterorhabdus tenuis.c6f	Optical microscopy	per litre
Z352M06I	Heterorhabdus tenuis.c6m	Optical microscopy	per litre
Z353M00J	Heterostylites spp.c1-5	Optical microscopy	per litre
Z353M01H	Heterostylites longicornis.c6f	Optical microscopy	per litre
Z353M01I	Heterostylites longicornis.c6m	Optical microscopy	per litre
Z353M02H	Heterostylites major.c6f	Optical microscopy	per litre
Z353M02I	Heterostylites major.c6m	Optical microscopy	per litre
Z354M00I	Augaptilidae spp.c6m	Optical microscopy	per litre
Z354M00J	Augaptilidae spp.c1-5	Optical microscopy	per litre
Z355M00H	Haloptilus spp.c6f	Optical microscopy	per litre
Z355M00I	Haloptilus spp.c6m	Optical microscopy	per litre
Z355M00J	Haloptilus spp.c1-5	Optical microscopy	per litre
Z355M01J	Haloptilus fons.c1-5	Optical microscopy	per litre
Z355M02H	Haloptilus acutifrons.c6f	Optical microscopy	per litre
Z355M03H	Haloptilus longicornis.c6f	Optical microscopy	per litre
Z356M00H	Augaptilus spp.c6f	Optical microscopy	per litre
Z356M01J	Augaptilus glacialis.c1-5	Optical microscopy	per litre
Z357M01H	Euaugaptilus propinquus.c6f	Optical microscopy	per litre
Z357M02H	Euaugaptilus magnus.c6f	Optical microscopy	per litre
Z357M03H	Euaugaptilus palumboi.c6f	Optical microscopy	per litre
Z357M03I	Euaugaptilus palumboi.c6m	Optical microscopy	per litre
Z358M01H	Pachyptilus eurygnathus.c6f	Optical microscopy	per litre
Z359M00J	Candacia spp.c1-5	Optical microscopy	per litre
Z359M01H	Candacia armata.c6f	Optical microscopy	per litre
Z359M01I	Candacia armata.c6m	Optical microscopy	per litre
Z359M02H	Candacia norvegica.c6f	Optical microscopy	per litre
Z359M02I	Candacia norvegica.c6m	Optical microscopy	per litre
Z359M03H	Candacia elongata.c6f	Optical microscopy	per litre
Z359M03I	Candacia elongata.c6m	Optical microscopy	per litre
Z360M01I	Anomalocera pattersoni.c6m	Optical microscopy	per litre
Z361M01K	Lubbockia aculeata.c1-6	Optical microscopy	per litre
Z362M00K	Mormonilla spp.c1-6	Optical microscopy	per litre
Z362M01H	Mormonilla phasma.c6f	Optical microscopy	per litre
Z362M01I	Mormonilla phasma.c6m	Optical microscopy	per litre
Z362M01J	Mormonilla phasma.c1-5	Optical microscopy	per litre
Z362M02H	Mormonilla minor.c6f	Optical microscopy	per litre
Z363M00K	Harpacticoida.c1-6	Optical microscopy	per litre
Z364M01K	Microsetella norvegica.c1-6	Optical microscopy	per litre
Z365M00K	Oncaeidae spp.c1-6	Optical microscopy	per litre
Z366M00I	Calanoid spp. C6 male	Optical microscopy	per litre
Z366M00J	Calanoid spp. C1-5	Optical microscopy	per litre
Z366M00K	Calanoid spp. C1-6	Optical microscopy	per litre
Z366M00M	Calanoid nauplii N1-6	Optical microscopy	per litre
Z366M00N	Calanoid C1-5 (small <1.5)	Optical microscopy	per litre
Z366M00P	Calanoid C1-5 (large >1.5)	Optical microscopy	per litre
Z367M01K	Parathalestris croni.c1-6	Optical microscopy	per litre
Z368M00K	Corycaeidae spp.c1-6	Optical microscopy	per litre
Z369M00K	Corycaeus spp.c1-6	Optical microscopy	per litre
Z369M00Z	Corycaeus spp.	Optical microscopy	per litre
Z370M00K	Cyclopoida.c1-6	Optical microscopy	per litre
Z421M01Z	Limacina retroversa	Optical microscopy	per litre
Z421M02Z	Limacina helicoides.	Optical microscopy	per litre

Z422M01Z	Clio pyramidata	Optical microscopy	per litre
Z422M02Z	Clio cuspidata	Optical microscopy	per litre
Z423M00Z	Pneumodermopsis spp.	Optical microscopy	per litre
Z424M01Z	Clione limacina	Optical microscopy	per litre
Z600M00X	Coelenterata remains	Optical microscopy	per litre
Z620M00Z	Siphonophora	Optical microscopy	per litre
Z621M01Z	Nanomia cara	Optical microscopy	per litre
Z622M00Z	Calycophorae	Optical microscopy	per litre
Z623M00Z	Diphyidae	Optical microscopy	per litre
Z624M00Z	Lensia spp.	Optical microscopy	per litre
Z624M01Z	Lensia conoidea	Optical microscopy	per litre
Z625M01Z	Dimophyes arctica	Optical microscopy	per litre
Z641M00Z	Leptomedusae	Optical microscopy	per litre
Z642M00Z	Rhopalonematidae spp.	Optical microscopy	per litre
Z643M01Z	Aglantha digitale	Optical microscopy	per litre
Z644M00Z	Rhopalonema Spp.	Optical microscopy	per litre
Z645M01Z	Crossota rufobrunnea.	Optical microscopy	per litre
Z646M00Z	Halicareidae spp.	Optical microscopy	per litre
Z682M00Z	Coronatae	Optical microscopy	per litre
Z683M01Z	Atolla wyvillei.	Optical microscopy	per litre
Z684M01Z	Nausithoe atlantica.	Optical microscopy	per litre
Z710M00Q	Polychaete spp.adult	Optical microscopy	per litre
Z710M00R	Polychaete spp.larvae	Optical microscopy	per litre
Z711M00Z	Tanaid spp.	Optical microscopy	per litre
Z712M00Z	Tomopteris spp.	Optical microscopy	per litre
Z712M01Z	Tomopteris helgolandica	Optical microscopy	per litre
Z712M02Z	Tomopteris septentrionalis	Optical microscopy	per litre
Z713M01Z	Lepidasthenia grimaldii.	Optical microscopy	per litre
Z714M00Z	Aphroditidae spp.	Optical microscopy	per litre
Z715M01Z	Pelagobia longiserrata.	Optical microscopy	per litre
Z820M00Z	Appendicularia spp	Optical microscopy	per litre
Z830M00T	Fish egg unidentified spp.	Optical microscopy	per litre
Z831M00Z	Bathypelagic fish.spp	Optical microscopy	per litre
Z850M00Z	Doliolidae	Optical microscopy	per litre

Originator Code Definitions

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Originator Protocols

PRIME Project Office

Samples were collected from 200 micron mesh WP-2 nets, hauled from a depth of 200 metres to surface. A flow meter was attached to the nets to monitor volume swept. Mesozooplankton were identified to genus, species and developmental stage for four 'key' species. Analysis was by optical microscopy.

Dr. Steve Hay

Samples were collected from 200 micron mesh Aries or Pup nets. The nets were opened and closed at a number of different depths, although many hauls terminated at or near the surface. Electronic flow meters monitored the volume sampled. Mesozooplankton were identified mostly to species (occasionally to genus or major grouping), gender and developmental stage. Analysis was by optical microscopy.

References

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