

OCEANOGRAPHICAL STATION LIST

**of Investigations made by the Division of Fisheries,
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Volume 19

**Onshore Planktological Investigations in Eastern
Australia, 1945-54**

Compiled by Patricia Kott

**COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH
ORGANIZATION, AUSTRALIA
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ONSHORE PLANKTOLOGICAL INVESTIGATIONS IN EASTERN AUSTRALIA, 1945-54

Compiled by PATRICIA KOTT

I. INTRODUCTION

In association with the Division's hydrology programme, plankton collections have for many years been made at certain onshore stations along the east coast of Australia. Unfortunately collections made before 1945 are incomplete and records from 1945 and succeeding years only are available. For the years 1943-45 a survey from collections made at the Jibbon station has already been published (Sheard 1949).

II. STATIONS

Stations occupied along the New South Wales coast are those at Coff's Harbour, Port Macquarie, Port Stephens, Botany Bay, Jibbon, Ulladulla, and Eden (Rochford 1951); a station at Evans Head commenced in 1953; one series of hauls from Amity Point in Queensland; and occasional hauls from Sydney Heads. At all stations except Jibbon, collection has been made monthly; at Jibbon, however, the station has, since 1952, been occupied weekly where possible.

In addition to the stations mentioned above, F.R.V. "Derwent Hunter" in January 1954, while on a tuna cruise in the area, occupied stations at Eden, Ulladulla, Nobby's Head, Norah Head, Barranjoey Head, and Port Stephens as set out in Table 1.

TABLE 1

"Derwent Hunter" Station No.	Locality	Position
DH 8/54	Eden (shelf)	Regular station
DH 9/54	Eden (wide)	150°23'E. 37°03'S.
DH 10/54	Ulladulla	Regular station
DH 11/54	Barranjoey Head (shelf)	151°31'E. 33°31'S.
DH 12/54	Barranjoey Head (edge)	151°53'E. 33°31'S.
DH 13/54	Barranjoey Head (wide)	152°00'E. 33°03'S.
DH 14/54	Norah Head (wide)	152°17'E. 33°18'S.
DH 15/54	Norah Head (edge)	152°10'E. 33°18'S.
DH 16/54	Norah Head (shelf)	151°41'E. 33°18'S.
DH 17/54	Nobby's Head (shelf)	151°58'E. 33°05'S.
DH 18/54	Nobby's Head (edge)	152°39'E. 33°05'S.
DH 19/54	Nobby's Head (wide)	152°43'E. 33°54'S.
DH 20/54	Port Stephens	Regular station

III. COLLECTION OF MATERIAL

N70 "Discovery"-type nets have been consistently used. Before 1952 15-minute horizontal hauls only were made, but since 1952 duplicate

vertical hauls from the bottom to the surface have been taken at all coastal stations, in addition to the usual 15-minute surface haul. At Port Stephens a winch is not available and there two horizontal hauls are made, one at the surface (0 m) and one at 2-5 metres. At the "wide" stations occupied by the "Derwent Hunter" layered vertical hauls are made with the N70 closing net from the bottom, through various depths, to the surface.

IV. LABORATORY TREATMENT OF MATERIAL

Counts are made of all individuals in one-tenth of the haul (Kott 1953), except where the haul is not sufficiently rich, when the total haul is counted. All Appendicularia, Acopa, Copepoda, and Cladocera are identified.

V. PRESENTATION OF DATA

Data are presented in the following columns:

Fl	Fish larvae	E	Euphausiids
Fe	Fish eggs	Co	Copepods
Ap	Appendicularia	Cl	Cladocera
Ac	Acopa	Ch	Chaetognaths

There is an additional column for miscellaneous forms which are not covered by the headings set out above.

Under the heading "Station" the following information is given (where it exists in the records):

Location
Date
Depth
Time

Quantities are given as x where:

$x = 1-10$
 $x^2 = 100$
 $4x^3 = 4000$
 $x^n =$ swarms present

Indications of numbers present are followed by a key letter for the dominant and subdominant species, in that order. Unfortunately it is expedient to mention in these records only the three most plentiful copepods occurring in each haul.

Index letters for species occurring:

APPENDICULARIA

a	<i>Oikopleura longicauda</i>	f	<i>Stegosoma magnum</i>
b	<i>Oikopleura fusiformis</i>	g	<i>Oikopleura cornutogastra</i>
c	<i>Oikopleura rufescens</i>	h	<i>Fritillaria megachile</i>
d	<i>Oikopleura dioica</i>	i	<i>Fritillaria borealis</i>
e	<i>Fritillaria pellucida</i>		

ACOPA

- | | | | |
|---|------------------------------|---|----------------------------|
| a | <i>Thalia democratica</i> | e | <i>Doliolum gegenbauri</i> |
| b | <i>Ihlea magalhanica</i> | f | <i>Iasis zonaria</i> |
| c | <i>Salpa fusiformis</i> | g | <i>Pyrosoma atlanticum</i> |
| d | <i>Doliolum denticulatum</i> | h | <i>Salpa maxima</i> |

EUPHAUSIIDS

(No specific identifications are given)

a = Calyptopis and/or other larval stages

COPEPODS

- | | | | |
|---|--|---|---|
| a | <i>Acartia clausei</i> | m | <i>Oncoea</i> spp. |
| b | <i>Paracalanus parvus</i> and/or
<i>aculeatus</i> | n | <i>Nannocalanus minor</i> |
| c | <i>Calanus finmarchicus</i> | o | <i>Centropages furcatus</i> |
| d | <i>Calanoides brevicornis</i> | p | <i>Acrocalanus gibber</i> and/or
<i>gracilis</i> |
| e | <i>Undinula darwinii</i> and/or
<i>vulgaris</i> | q | <i>Euchaeta</i> spp. |
| f | <i>Centropages kroyeri</i> | r | <i>Coryceus</i> spp. |
| g | <i>Centropages bradyi</i> | s | <i>Canthocalanus pauper</i> |
| h | <i>Temora turbinata</i> | t | <i>Centropages orsinii</i> |
| i | <i>Clausocalanus arcuicornis</i> | u | <i>Eucalanus</i> spp. |
| j | <i>Neocalanus gracilis</i> | v | <i>Rhincalanus</i> spp. |
| k | <i>Sapphirina</i> spp. | w | <i>Oithona</i> spp. |
| l | <i>Pleuromanna gracilis</i> and/or
<i>abdominalis</i> | x | <i>Labidocera acutum</i> |
| | | y | <i>Labidocera cervi</i> |
| | | z | <i>Copilia</i> spp. |

CLADOCERA

- | | | | |
|---|--------------------------|---|----------------------------|
| a | <i>Penilia smackeri</i> | d | <i>Evadne nordmanni</i> |
| b | <i>Evadne tergestina</i> | e | <i>Podon polyphemoides</i> |
| c | <i>Evadne spinifera</i> | | |

MISCELLANEOUS

- | | | | |
|---|---------------|---|------------------|
| a | Amphipods | g | <i>Creseis</i> |
| b | Ctenophora | h | <i>Firoloida</i> |
| c | Coelenterates | i | <i>Lucifer</i> |
| d | Decapod larva | j | Nauplii |
| e | Mollusc larva | k | Echinoderm larva |
| f | Ostracods | | |

VI. ACKNOWLEDGMENTS

Thanks are due to Mr. D. J. Rochford, of this Division, who made his field staff available to take the hauls; to the hydrological field staff themselves, who in many adverse conditions maintained the stations; and to Mrs. P. Wyllie, who assisted greatly in the compilation of these lists.

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PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>EVANS HEAD.</u>									
26.4.53 0 m			9x a			22x ³ bh		7x ²	3x ² b 3x a x d x c
22.5.53 0 m		x ³	2x ² a 2x e	x d		13x ³ hx	x ² b	x	x e x i x d
22.5.53 50-0 m		x	5x ² a 6x e	6x d		13x ² bix	2x b	4x	x f x i x d x a x c
22.5.53 50-0 m		6x	3x ² a x e	4x d		25x ² bi	4x b	8x	x d x i x f x a x c
24.6.53 0 m	x	7x	7x a			13x ³ hbi	2x ³ b	2x	5x i 3x f x d x a
24.6.53 50-0 m	x	3x	x ³ b 9x e	x ² d	x ² a	8x ³ bih	7x ² b 2x a	8x	x ² f 5x d 4x i x c
24.6.53 50-0 m		x	3x ² a x e	4x d	x ³ a	5x ³ bhi	4x ² b	5x	x f x d x i
3.8.53 0 m	9x	8x ²	2x ² a	x ² d		14x ³ dhs	7x b	2x ²	2x ² i 9x g 6x d 4x f

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>EVANS HEAD.</u>									
3. 8.53 50-0 m		x	x a			x ³ hno	x a x b	x	x ² j 7x f x g
3. 8.53 50-0 m	3x	x	5x a	2x d		25x ² bhu	2x b x a	2x	6x f x g
4.10.53 0 m	x ²	4x ²	2x ² a 3x e	2x d	2x ² a	18x ³ hba	3x ³ bc 2x ² a	4x	3x ³ d 8x i 5x g x b x e
4.10.53 50-0 m	x	4x	x ³ a 5x e		4x a	9x ³ abh	3x ² a 2x ² b		7x g 3x f 2x d x c
4.10.53 50-0 m	x		4x ² a		3x a	6x ³ abh	x ² a x ² bc		2x g 2x f x d x j x c
29.11.53 0 m		3x ²	9x a	3x d		14x ³ ahb	3x ³ cb x ² a	3x	5x d
29.11.53 50-0 m		2x	2x ² a	2x ² d		65x ² hba	4x ³ a 4x ² b	x	2x d
29.11.53 50-0 m			6x ² a x e	3x ² d		55x ² hba	4x ³ a 3x ² bc		x ² j 4x d x c

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>EVANS HEAD.</u>									
23. 1.54 0 m		x	x ² a	3x d x a		12x ³ hab	3x ² a	x ²	4x ² g 2x ² a 5x i 2x f
23. 1.54 50-0 m	x		4x ² a 9x e	2x ² d		4x ³ abo	7x ² a	3x	6x a x f
23. 1.54 50-0 m			5x ac	9x d x a		24x ² abo	2x ² a	x	4x g x a
7. 3.54 50-0 m	x		5x a	3x d	2x	8x ² bh	x ² a	4x	
7. 3.54 50-0 m			x ² a	9x d		8x ² bh	4x ² a	x ²	x b x c
4. 4.54 0 m	x	5x	3x ² ac	x ² a		9x ³ hbo	4x ³ b 5x ² a	x ²	x g x c x d
4. 4.54 50-0 m			x a	x ² d		4x ² bhu	x b	x	
* 4. 4.54 50-0 m						3x ² bhu	x a		x f
22. 5.54 0 m	x			3x d		35x ³ bhe	x ² a	x ³	x b x i
22. 5.54 50-0 m						x bh			
22. 5.54 50-0 m						x b			
18. 6.54 0 m		2x ²				x ⁴ phm			

* Insufficient fixative 9

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>AMITY POINT.</u>									
18.6.52 0 m	x ²	3x ²		25x ² _{ed}	5x	2x ² _{ekv}		5x ²	x ³ _i x ² _a 5x _h x _b x _c
18.6.52 50-0 m		2x	x ² _a	3x ² _{de}	8x _a	6x ³ _{hbi}		6x ²	2x ² _d 9x _a 7x _f 7x _i 5x _g x _b x _e
19.6.52 50-0 m	x	3x	5x _a	7x ² _{ed}	2x ² _a	5x ³ _{bhf}		3x ²	x ² _f 9x _a 6x _i x _b x _d
<u>COFF'S HARBOUR.</u>									
26.10.48 0 m	x	x	x ³ _a	3x ³ _e		12x ² _{ub}		x	x _b
16. 2.49 0 m	x	3x ²	x _a			15x ³ _{hoe}	2x ² _b	x	3x ³ _b x _e x _a
31. 7.49 0 m		3x ²	x _a	x ⁴ _d 6x ³ _a x _e		9x ² _{ohb}	7x _b	x	2x ² _g x _d x _e
2. 9.49 0 m		3x ²	x ² _{ca}	12x ² _{de}		8x ² _{hd}		x ²	2x ² _g x _c x _d x _e

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>COFF'S HARBOUR.</u>									
1.12.49 0 m		x	x a			2x ³ ba	8x ² a	x	2x ³ b x d x c x e
12.1.50 0 m		x ³		3x d		3x ⁴ heo	3x ⁴ c	x	
3. 5.52 0 m		4x	3x a		2x	4x ³ bha		3x	3x ² i 2x ² d 2x g
3. 5.52 60-0 m	x		3x ² a 4x e	2x d		3x ³ bha	2x ² a	3x	9x a x d x f
3. 5.52 60-0 m		2x	x ² a 2x e	4x d	3x	2x ³ bh	x a x b	7x	x d x a
22.5.52 0 m		x ³	4x ³ ac x ² e	2x ² a 3x ² d		3x ⁴ bho	2x ² b	x ³	x ³ i 2x ² g x ² e 5x b 2x a
22.5.52 60-0 m			x a	x d		x ³ hba	x a x b	x	x d x i x c
22.5.52 60-0 m			x a			7x ² bho		x	x e x d x a
24.4.53 0 m		4x	x a			15x ² bps	8x b	3x	3x ² a x ² b 8x a 3x g x c

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Ci	Ch	
<u>COFF'S HARBOUR.</u>									
21.5.53 0 m	4x	x ³	2x ³ a 2x e	3x a 8x d		16x ³ hbx	5x bc 2x a	x ²	x ² d 6x g x e x i
21.5.53 50-0 m	x	3x	2x ² a		x a	4x ³ bhi		3x	5x d x i x c
21.5.53 50-0 m	x	3x	6x ² a	x d		36x ² bhi		6x	2x f x g x a x c
22.6.53 0 m		7x ³				6x ³ rxb	x ³ bc	2x	6x g x b
22.6.53 50-0 m		2x ²	2x ² a	9x d	9x a	x ⁴ biu	x ² b	3x ²	x ² f x d x c
22.6.53 50-0 m		2x ²	x ² a		7x a	75x ² bhi	5x b	x ²	7x f 3x g x d
31.7.53 0 m	x	4x ²	x a	x a		7x ³ hbd	6x ³ cb	2x	2x g x d
31.7.53 50-0 m		x	3x ² e 5x a	x a x d	x a	36x ² hbd	4x ² bc 3x a	2x	3x d 3x f x i x c

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>COFF'S HARBOUR.</u>									
31.7.53 50-0 m		2x	2x ³ e 2x ² a		x a	8x ³ bmz	6x ² bc 7x a	x	x ² k x ² f x i x d x c x g
2.10.53 0 m	x ²	3x ²	3x ³ ca	95x ² de 2x a	3x	17x ³ bxt	15x ² bc 3x a	2x ²	3x ³ g 4x d 3x b x c x i
2.10.53 50-0 m		x	x ² a x e	2x ³ d	6x ² a	25x ³ hbv	3x a 2x b	3x	6x ² f 4x ² g 4x d x c
2.10.53 50-0 m	4x	x	3x ² ca	2x ³ d	3x ² a	18x ³ hb	8x b	8x	9x ² g 4x ² f 5x d x c x i
23.10.53 0 m	x	x ³	4x a	x ³ d 2x a		7x ³ hat	27x ³ cb	x	x b x d

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>COFF'S HARBOUR.</u>									
23.10.53 50-0 m		x	3x ² c x e	9x ² de x a		4x ³ hau	3x ² bc x ² a x e		5x d 2x g 2x f x c
23.10.53 50-0 m	x	5x	4x ² c 2x e	6x ² de 2x a		4x ³ hab	2x ² bc x ² a	2x	2x ² d 6x g 5x f x c
28.11.53 0 m		25x ²	9x ² a	x ² a	x a	36x ³ hab	15x ³ cb 14x ³ a	3x ²	2x ² d x ² g x b
28.11.53 50-0 m		9x	9x ² a x e	2x ² d		16x ³ abs	9x ³ a x ³ cb	3x	x ² d x g x c
28.11.53 50-0 m		6x	4x ² a	3x ² d		16x ³ hab	9x ³ a x ³ cb	5x	2x d x b x f x g
8. 3.54 50-0 m						x ³ heo		x	
8. 3.54 50-0 m						6x ² uho		x	x d

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>COFF'S HARBOUR.</u>									
1. 4. 54 0 m	2x		3x ² a	7x ^{ed} 3x a		4x ³ hbx	x ³ b 2x ² a		8x ² b 4x ² c 2x ² f 2x ² i
1. 4. 54 50-0 m			2x ^{abc} x f x e	x d		4x ² abh	3x a 2x b	x	x c x f x i
1. 4. 54 50-0 m			2x ² ac	6x ² de		x ³ aex	2x ² b	7x	2x i x c x b
20. 5. 54 0 m		x	2x ² ab x f	x d		6x ² hbi		x	x c
20. 5. 54 50-0 m			2x ² da 2x f	x d		15x ² bhx		7x	x c
20. 5. 54 50-0 m			3x a			15x ² abh		3x	x b x i
19. 6. 54 0 m		3x	5x ² a	2x ² d x a	8x	2x ⁴ uab	2x b	6x ²	x ³ e x ² g
19. 6. 54 50-0 m	-		3x e	x d		3x ³ ubi		5x	x ² j
19. 6. 54 50-0 m	6x		3x ² a x ² e	3x d		3x ³ uip		3x ²	x ³ j 3x c x f

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>PORT MACQUARIE</u>									
23. 1.49 0 m		x		3x a		7x ³ he	9x b	x	9x i x h
18. 2.49 0 m	x	5x ³	x a			12x ³ hbo		9x ²	6x i x d x c
30. 6.49 0 m	x	2x ²	5x ² ac	2x ³ ed		15x ² he		2x ²	3x g x d x e x i
26.10.49 0 m	x	x ²	x ³ ac x ² e	x ³ d x ² b x a		3x ³ bei	8x b	5x	x ³ g x e
4.12.49 0 m	x	4x	x a	x a		12x ² tih		8x	x d x c x h
7.1.50 0 m		x				5x ⁴ bah	2x ² cd	2x ²	
30.3.50 0 m	x	2x ²	14x a 3x f	4x d		4x ³ he	5x ² bc	4x ²	3x i x d x h
6. 5.52 0 m		2x ²	6x ³ a	2x ³ ed		5x ⁴ ubh	5x ² a	24x ²	x ³ c 3x ² a 2x ² d 2x ² i x ² b x ² f

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>PORT MACQUARIE</u>									
6. 5.52 60-0 m			2x ² a 3x e	2x ² de		16x ² buh	3x b 2x a	5x	3x d 2x i x g x a x f x c
22. 5.52 0 m	2x	x	x ² a		x ²	13x ⁴ abh		x ²	3x d x e
22. 5.52 60-0 m		x	2x ² a			8x ³ hba		4x	3x f 2x i x g x e x d
22. 5.52 60-0 m			5x a x e			24x ² bh		x	4x f 2x i
23. 4.53 0 m		x	2x ² a x e	x d		2x ² har		x	x e
23. 4.53 60-0 m			9x ² ac 4x e	x ² d	x ² a	5x ³ hsu	4x b 3x a	2x ²	2x c x f x d x a x i x j
23. 4.53 60-0 m	x		9x ² ae	x ² de x a	6x a	4x ³ hab	x b	x ³	2x d x c
20.5.53 0 m		x ²	x a			55x ³ bha		x	x d x b

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>PORT MACQUARIE.</u>									
20. 5.53 50-0 m		x	4x a		7x a	12x ³ abh	5x b	x	x ² f 5x d x i x a x b
20. 5.53 50-0 m	x	2x	6x a		3x a	6x ³ abh	5x b x a	7x	7x d 2x f 2x g 2x i x a x b
30. 7.53 0 m		4x ²	x a	4x ² a		2x ³ bmr	x ² b	x ²	x ² g
30. 7.53 50-0 m			5x ² a 8x e	x ² d 5x a	2x a x	9x ³ bil		2x ²	3x g x d x a x c
30. 7.53 50-0 m			2x ² a x e	2x a 7x d	x a	75x ² bil	x b	3x ²	6x f 2x c x d x a
1.10.53 0 m		3x ²	5x ² a	2x ² d		17x ³ abh	2x ² b 4x a	2x	5x g x d x c
1.10.53 50-0 m			x ² a		2x ² a	7x ³ bha	4x a	2x	x f x c
1.10.53 50-0 m			3x a	2x d	x ² a	5x ³ bha	x b	x	3x f x g x d x j

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>PORT MACQUARIE.</u>									
22.10.53 0 m		2x				36x ³ hab	x e		x d
22.10.53 50-0 m	x		x a			15x ³ hab	2x e	9x	6x f 3x d 2x c x g
22.10.53 50-0 m			2x a			18x ³ hab		2x ²	4x ² d x ² f x b x c
16.12.53 0 m		3x ³	x ² a	3x ² a		35x ² hbi	8x ² cb	5x	3x g x e x c
16.12.53 50-0 m		x				5x ³ bil	x d		2x f x c
16.12.53 50-0 m	3x		x ² a x e	7x a 3x d	2x	9x ³ bl	2x ² bc 3x a	x ²	3x g x f x d x a x c
27. 1.54 0 m		3x ²	x ² b			24x ⁴ abh	5x ² b	2x ²	
27. 1.54 50-0 m			3x _{ac}	x d x a		8x ³ hao	14x ² a 9x b	2x	2x g x i x f
27. 1.54 50-0 m			3x ² ac 2x e	2x d		6x ³ ahb	4x a 4x b		

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>PORT MACQUARIE.</u>									
3. 3. 54 50-0 m	2x		8x ² acd	x ³ de		5x ³ hab	6x ² a x ² b	2x ²	x b
3. 3. 54 50-0 m		x	7x ² abc	4x ² de		5x ³ hab	3x ³ a x ² b	2x ²	3x i
31. 3. 54 0 m	2x	x ²	4x ² abc	9x d		4x ³ abh	4x ³ b 2x ³ a	2x ²	2x b
31. 3. 54 50-0 m	x		4x ² abc 3x f x e	5x d		25x ² abh	3x ² b	2x ²	2x i 2x c
31. 3. 54 50-0 m	2x		4x ² abc x f			2x ³ abh	8x ² a x ³ b	2x ²	x c
20. 6. 54 0 m			x ² a 2x i	2x d		2x ³ abh		x	x i x f
20. 6. 54 50-0 m			3x a			3x ³ hbi			x i

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co.	Cl	Ch	
<u>PORT STEPHENS.</u>									
12. 7.45 0 m	x	x	2x ³ _a x f	6x ² _{de} x ³ _a		5x ³ _{bde}	x ³ _a	6x ²	x d x g
5. 9.45 0 m	x			9x ² _a		x ² kb			x c x d
24. 4.46 0 m			x a	8x ² _d		15x ³ _{hb}	12x ² _a	15x ²	2x i
16. 7.46 0 m		9x	2x _{adc}	2x _a x d		9x ² _{abe}		x	x c
25. 9.46 0 m	x	x		9x _d 2x _a		7x ² _a	7x ² _b 2x ² _a 2x ² _e	x	x ³ _k 5x _g x f
23. 10.46 0 m		2x ²		6x ² _a 3x ² _{de}		7x ² keq	6x ² _b	3x	x ² _k 5x _g x e
18. 12.46 0 m		7x ²	5x _a	x _d		x ⁴ abo	x ⁴ cb x ³ _a	7x	x e
21. 1.47 0 m		x	5x ² ba			2x ² hao	3x ³ cb		x e
18. 2.47 0 m	x		36x _a	x _d	x a	2x ² bue	6x _a x b	5x	x i
20. 3.47 0 m	x		6x ² ac	6x ² _d		5x ³ hb	2x ³ bc 18x ² _a	x	x ² _g x b
28. 4.47 0 m		5x	3x ² ac x e	7x ² _d		4x ³ hbe	2x ² _a	5x ²	9x _g x e x d

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>PORT STEPHENS.</u>									
2. 10.47 0 m				2x ³ a		x ² k			x c
28. 1.48 0 m		6x	x ³ _{ab}			4x ³ _{abh}	x ² c	3x ²	x d x i
26. 5.48 0 m		3x ²	x ² a	x ² d		x ³ _{bin}	x a	2x ²	x h x d
4. 9.48 0 m				3x ³ a				x	
27.10.48 0 m		x	4x a	5x ³ a 4x _{de}		x ³ _{kg}	5x ³ _{db}	4x	x c
24.11.48 0 m		x ²			2x ⁴ a	x ⁴ _{ah}		x ²	
26. 1.49 0 m		2x ²	2x ² d	3x ² d		15x ² _{abh}	5x ² a 2x ² _{cb}	x	x g
19. 2.49 0 m	x	9x ²	x a	4x ² a		15x ³ _{ahc}	3x ³ a 3x ³ _{bc}	3x ³	x d x e
5. 7.49 0 m		x ²	x a		x a	9x ² _{ahn}		x	x d x f x e
8. 8.49 0 m	x	3x ²		2x a		2x ² _{bah}		2x	x ² e 2x g x d
5. 9.49 0 m		x				2x ² _{ba}		x	

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>PORT STEPHENS.</u>									
6. 12.49 0 m		x^2	x a		x a	$4x^3$ abh	x^3 bcd	x	x d
8. 3.50 0 m		x^2	$5x^2a$	$2x^2d$		$4x^3$ hbg	x^3b	x	x b
31. 3.50 0 m	x	$2x^2$	$2x^2$ ab	$15x^2d$		$15x^3$ be	$2x^4a$ $3x^3b$	$5x^2$	x d
22. 4.53 0 m			$3x^4a$	$2x^2d$		$14x^4$ hbi	$35x^3a$ $5x^2b$	$2x^3$	$2x^2g$ x b x d x a
18. 5.53 50-0 m			$4x^3a$	$2x^3d$ x^2a	$3x a$ x	$17x^4$ hbi	$6x^3a$ $2x^2b$	4x	$8x^2g$ $8x^2i$ x^3d $2x^2f$ 4x a x c
29. 7.53 0 m	2x	$2x^2$	$2x^2b$	$2x^3a$ x^2d	x^2a 2x	$16x^3$ hnb	$2x^3b$ x a x e	$4x^2$	$3x^2d$ $2x^2g$ 5x h x f x i
21. 8.53 0 m	x	$3x^2$		x^4a x^2d	$4x^2a$	$6x^3$ def	$2x^4$ cb	x	$3x^2g$ 2x f x h x d
21. 8.53 2 m	x			x^4a	$4x^2$	x^3 dce	$9x^3$ cb	x	$3x^2g$ x f x c x h

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
PORT STEPHENS.									
30. 9.53 0 m	x	5x ²	3x ² c x e	6x ³ dl 6x ² a	3x ² a	2x ³ kde	10x ⁵ bc 6x ² e 5x ² a	x	7x ³ g x h x e x d x c
30. 9.53 4 m	x		5x ² a 2x ² e	2x ³ de 6x ² a	9x ² a 3x ²	2x ³ kdu	4x ⁴ bc 8x ² e 3x ² a	3x ²	6x ³ g x b x h x c x d x i
15.12.53 0 m		x ³	x ² a			7x ³ bih	4x ⁴ bcd 3x ² a x ² e	x	2x ² g x d x c
15.12.53 5 m	5x	7x ²	4x ² a		3x	13x ³ abi	8x ³ bcd 6x ² a 2x ² e	5x	x ² g x d
DH20/54 12. 1.54 50-0 m 1545 hrs	x		x ² ab	x d		12x ² abh	24x ² a 12x ² b x e	x	x i x j x g
DH20/54 12. 1.54 50-0 m 1550 hrs	x		x ² ab	x d		24x ² abh	24x ² a 12x ² b x e	x	x i x j x g
DH20/54 12. 1.54 0 m 1620 hrs			2x ² a			3x ³ abh	5x ³ a 3x ³ b		

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>PORT STEPHENS.</u>									
19. 1.54 0 m		$2x^2$	6x a			$14x^3$ ab	$45x^2$ bc		x g
19. 1.54 3 m		$3x^2$	$4x$ ab			$7x^3$ ab	$3x^3$ x^2a	2x	
1. 3.54 0 m	x		x^3 a	$4x^2$ d		$8x^4$ ahb	$6x^5$ $2x^4b$	$9x^2$	x^2 b
29. 3.54 0 m		x^2	8x ac	x a		x^4 bhu	x^4 $5x^2b$	$4x^2$	7x b 6x i x c
29. 3.54 0 m			x^2 a	3x d		$6x^3$ abh	$6x^3$ x b	$4x^2$	x^2 g 8x i x d
29. 3.54 3 m			x^2 ac x f			$6x^3$ bhe	x^4 $5x^2b$	$4x^2$	x^2 i x^2 g x c
25. 5.54 0 m	3x		$4x^2$ a	$3x^2$ a x^2 d		$3x^4$ ahg	$5x^2$ x b	$5x^2$	$2x^2$ i x^2 h
22. 6.54 0 m	x	$3x^2$		3x d	x^2 a	$3x^3$ bae	4x a	x^2	$3x^2$ i x^2 j x c x k
22. 6.54 2 m		$3x^2$	8x a			$4x^3$ bae	8x a	$2x^2$	$2x^2$ i x^2 j 5x k x b x d

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
NOBBY'S HEAD.									
DH17/54 11.1.54 50-0 m 1525 hrs	x	x	5x ² _{ab}	x ² d		5x ³ _{abh}	3x ³ _b 2x ³ _a		x g
DH17/54 11.1.54 50-0 m 1530 hrs	x		4x ² _{ab}	2x ² d		2x ³ _{abh}	6x ² _a 6x ² _{bc}		x g
DH17/54 11.1.54 0 m 1545 hrs	x	x	9x ² _{ab}	x ² d		6x ³ _{abh}	8x ² _a 8x ² _b		
DH18/54 12.1.54 200-0 m 0355 hrs	2x		2x ² a	2x a x d x c	4x	3x ³ _{abh}		x	
DH18/54 12.1.54 200-0 m 0403 hrs			x ² a	8x a	5x	35x ² _{hbl}		8x	x h
DH18/54 12.1.54 0 m 0427 hrs			8x _{ab}	x a x d		12x ² _{ahc}		8x	x c x i x g
DH19/54 12.1.54 500-400 m 0710 hrs					x	2x ² _{lv}		x	
DH19/54 12.1.54 500-0 m 0925 hrs				x c	x	6x ² _{vbl}		x	3x f

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>NOBBY'S HEAD.</u>									
DH19/54 12.1.54 500-0 m 0950 hrs					x	5x ² lhb		x	7x f
DH19/54 12.1.54 400-300 m 1015 hrs				x c		x l		x	x f
DH19/54 12.1.54 300-200 m 1030 hrs						x mw		x	
DH19/54 12.1.54 200-100 m 1045 hrs			x a			x he		x	x f
DH19/54 12.1.54 100-50 m 1057 hrs			x a			2x vu		x	
DH19/54 12.1.54 50-0 m 1105 hrs	x		x ba	x a		5x hab	x bc	x	
DH19/54 12.1.54 0 m 1156 hrs			2x a	x a		6x hm		x	x h

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>NORAH HEAD.</u>									
DH14/54 11.1.54 600-500 m 0021 hrs					x	2x ² luv		x	x f
DH14/54 11.1.54 500-400 m 0050 hrs						x ² lvb		x	x f
DH14/54 11.1.54 400-300 m 0110 hrs						x			
DH14/54 11.1.54 300-200 m 0126 hrs						x			
DH14/54 11.1.54 200-100 m 0140 hrs				x a		8x hbl		x	x f
DH14/54 11.1.54 100-50 m 0152 hrs		x	x c		x	5x ² hbl		x	x a
DH14/54 11.1.54 50- 0 m 0200 hrs				6x ² a	2x	x ³ abh	2x a	2x	2x f x g
DH14/54 11.1.54 500-0 m 0210 hrs				2x ³ a 3x d	2x ²	4x ³ lbh		2x ²	6x g x f

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>NORAH HEAD.</u>									
DH14/54 11.1.54 500-0 m 0230 hrs				x ³ a 3x d	3x ²	35x ² 1bh	6x a x b	2x ²	4x g 3x f
DH14/54 11.1.54 0 m 0315 hrs			x a	x ³ a 3x d x g	5x ²	4x ³ hbq	x a		4x ² g x ² h 4x i x c x d
DH15/54 11.1.54 200-0 m 0450 hrs	x	3x	2x ² a		4x	55x ² nal	2x c	x ²	9x g 4x f
DH15/54 11.1.54 200-0 m 0500 hrs					5x	3x ³ abh		5x	x h x e
DH15/54 11.1.54 0 m 0525 hrs				2x b 2x a		6x ³ hbk	x ² cb	x ²	6x g x h
DH16/54 11.1.54 50-0 m 1105 hrs		x	2x ² ba	x a x d		4x ³ ahb	4x ³ a 3x ³ bc	x ²	x d x e x k
DH16/54 11.1.54 50-0 m 1110 hrs	x		3x _{ab}	x d		6x ² abh	3x ² cb 6x ² a x e		

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>NORAH HEAD.</u> DH16/54 11.1.54 0 m 1127 hrs	x	2x ³		3x d		4x ³ abh	6x ³ bc 6x ² a	6x	

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>BARRANJOEY HEAD.</u>									
DH11/54 10.1.54 50-0 m 1135 hrs		x	3x ² _{ab}	2x d		45x ² _{abh}	5x ² _a 4x ² _b	x	4x g
DH11/54 10.1.54 50-0 m 1140 hrs			2x ² _{ab}	5x a 8x d		4x ³ _{abh}	4x ² _a 3x ² _b x ² _e		3x g
DH11/54 10.1.54 0 m 1230 hrs			5x a			6x ³ _{ah}	x ³ _{bc}		
DH12/54 10.1.54 200-0 m 1557 hrs		x	x ² _a	4x ² _a		25x ³ _{hab}		6x	2x h x e 2x f
DH12/54 10.1.54 200-0 m 1605 hrs			5x a	4x ² _a		3x ³ _{hak}	2x b	5x	x h 2x f 2x d
DH12/54 10.1.54 300-200 m 1620 hrs					3x	5x ² _{hbv}			
DH12/54 10.1.54 0 m 1627 hrs		x		8x a 8x b		16x ³ _{hek}	4x ² _b	2x	2x ² _c 3x b 6x g 3x a
DH13/54 10.1.54 500-400 m 1745 hrs				3x a	2x	9x ² _{hel}		6x	2x f

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>BARRANJOEY HEAD.</u>									
DH13/54 10.1.54 400-300 m 1805 hrs				x a	2x	4x ² hel			x f
DH13/54 10.1.54 200-100 m 1830 hrs			6x a	4x ² a	2x	x ³ hab		4x	x d
DH13/54 10.1.54 100-50 m 1837 hrs						x hm			
DH13/54 10.1.54 50-0 m 1842 hrs			2x a	x ² a x b		12x ² mhb	x a	3x	x g
DH13/54 10.1.54 500-0 m 1915 hrs				4x a x b	2x ²	2x ³ hlb		3x	2x f 2x a
DH13/54 10.1.54 500-0 m 1925 hrs			8x a	x ³ a x g	3x ²	4x ³ abh	2x ² a	x ²	5x h 2x f 3x g
DH13/54 10.1.54 0 m 2018 hrs					4x ³	24x ³ hcm	2x ² b		2x ² f

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>SYDNEY HEADS.</u>									
25.10.45 0 m		x ²	7x d x e	3x a		2x ³ abd	8x ² bd	x	x a 2x c
25.1.46 0 m	x	8x ²	8x d	4x d		5x ³ abh	3x ³ a x ³ bec	2x	
3.4.46 0 m		x ³		x ² a 3x d		15x ³ hae	2x ⁴ b	8x ²	2x ² i 3x h x d
10.6.46 0 m		7x	2x ² dba	6x a 9x ² d		3x ³ bla	2x ² a	6x	x c

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>BOTANY HEADS</u>									
17. 8.45 0 m	x			5x ³ a		5x ² abh			x d x c
17. 9.45 0 m				3x ³ a		x ² k			x c
18. 10.45 0 m		3x ²			x a	5x ² ab	x d		x b x g
29. 1.46 0 m		8x ²	6x ² a	2x ³ d	x a	2x ³ abe	2x ² a 6x bc		2x ² g
4. 5.46 0 m		x		3x ² d		5x ³ abh	6x b 3x a	2x ²	3x i x b x d x e
13. 6.46 0 m		x		x ² a 2x d		x ³ abh	2x a	5x	
9. 8.46 0 m		7x		2x ² a	6x	x ² a		x	
12. 9.46 0 m				15x ² a 2x c		2x ² kb			
9. 10.46 0 m		x		4x ² a x c		2x ³ akg	2x e		x d
31. 1.47 0 m		x	x a	x ³ a x ² d		x ⁴ abh	x ⁴ b 8x ³ a	x	x ² g
1. 5.47 0 m		x		8x ² d x a		3x ³ hab	5x ² a		x e
23. 6.47 0 m						5x ² abh		3x	x e

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>BOTANY HEADS</u>									
7. 11.47 0 m		x				12x ³ bah	5x ³ e 3x ³ bd		x d
2. 3.48 0 m	x	x	5x ² a	2x ² d 9x a		15x ³ ahb		3x ²	
14. 5.48 0 m	x	x				15x ³ abh	7x ² a	x	
15. 7.48 0 m					4x	x ² ab		x	
9. 11.48 0 m	x	x		5x a		9x ahk	x b		
8. 2.49 0 m	x	x	x a			5x ⁴ abt	5x ² bc 4x ² a	x	x d
21. 7.49 0 m	x					2x ² ab		x	x d x c x e
20. 9.49 0 m	x	x	x a		x a	3x ² abh	2x ² db x e	x	x d
14. 11.49 0 m		x	3x b			2x ³ abh	x ² bd	4x	7x g x d
13. 1.40 0 m		9x	4x d			8x ² abh	x ² be	x	
8. 2.50 0 m				7x a 3x d		5x ³ hba	3x ² a 3x ² b	3x	x i

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>BOTANY HEADS</u>									
2. 4.53 0 m		5x	5x ³ aef	3x d		11x ³ abi	5x ³ bc 5x ² a	2x	x d x c
22. 4.53 0 m		6x ²	15x ² a	2x d		17x ³ abr	9x ³ a 3x ² bc	4x ²	2x g x e x d x c
22. 4.53 60-0 m	x	x ²	7x ³ a	x ² d	2x ² a	15x ³ bhs	4x ³ a x b	4x ²	x ² g x e x c
22. 4.53 60-0 m			2x ³ a	3x d	x ² a	5x ³ ahs	x ³ a x b	2x ²	4x g 2x i x d
26. 5.53 0 m	x	x ³	6x ³ a	2x ² d x ² a	x ² a	33x ³ bim	x ² a x ² b	2x ²	4x ² b x d
26. 5.53 60-0 m	4x		2x ³ a x e	2x d	x	12x ³ bim	4x a	x ²	5x d 3x f 2x g x i x c
26. 5.53 60-0 m	x	4x	3x ³ a	2x d	2x a	12x ³ bim	x b	x ²	4x f 3x g x d
30. 6.53 0 m		x ³	2x ² a	8x ² a		2x ⁴ rsm	5x ² b	x ²	x ² h x d x c
30. 6.53 50-0 m	2x		2x ² a 2x e	3x d	x a	7x ³ mrz	3x a x b	2x ²	2x ² d 2x ² j 3x c

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>BOTANY HEADS</u>									
30. 6.53 50-0 m	x	7x	2x ² a 2x ² e	5x d	6x a x	12x ³ mrz	x ² a 2x b	3x ²	3x ² j 3x d x h x c
3. 8.53 0 m		5x ²	x a x e	x ² a x d	x	2x ³ ahm	2x ³ e 4x b		x b x g x d
3. 8.53 60-0 m		x	6x a 5x e	x d	3x ² a 6x	4x ³ ahs	3x b 2x e x a	x	3x ² d 2x ² f x ² j x c
3. 8.53 60-0 m			3x a 2x e		6x ² a 9x	5x ³ ahr	4x b 2x e	4x	4x ² d 3x ² f x ² j 2x c x i
2. 9.53 0 m	x	x	2x e x a	x ³ a 5x d	5x x a	25x ² kdu	2x a x b	7x	6x ² g 4x d x f x h x c
2. 9.53 0 m			x a	5x a x d	2x ² a 2x	45x ² duv		2x ²	x ² g 6x f 4x d 4x c 5x k
13. 1.54 0 m		2x ²	3x ² a		x	2x ³ abh	3x ³ b		3x g x b
24. 3.54 0 m		4x ²	2x ³ a	3x ³ d		5x ³ abh	x ³ b 8x ² a	6x ²	5x g

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>BOTANY HEADS.</u>									
29. 6. 54 0 m	3x	14x ²	3x ² abc x ² e	x ³ a 2x d		x ⁴ abn	6x ² a 4x eb	3x ²	3x c

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>JIBBON.</u>									
10. 3.45 0 m	4x	x	4x ³ abc	2x ² a 4x d		x ⁴ bac	2x ² bcd 2x a	x	3x ² g x a x c
17. 3.45 0 m	x	x	3x ² abc	3x a		3x ³ ihg	x ³ bc	x	x g x a x c
24. 3.45 0 m	x	x	4x ² a	2x ³ a 8x d		4x ³ bih	8x ³ bc x a	x	3x g x h x a
14. 4.45 0 m	x		x ³ abc	4x d x a		3x ³ hbc		9x ²	x e x a x c
28. 4.45 0 m	x	x			x	4x ³ hao	5x ² a 2x _{bc}	x ³	x e x d x g
5. 5.45 0 m	2x	x	3x ³ ac	8x ² de		15x ³ hev	3x ² a	x ³	3x ² g 3x i x c
19. 5.45		x	x ³ a	2x ² e x ² d		8x ³ hvn	8x ² a x ² b	8x ²	x g x c x e
2. 6.45 0 m	x	x	5x ² abg x e	4x d x a		15x ³ hea	3x b	4x ²	x i x g x c x e
23. 6.45 0 m			3x ³ a	2x _{de}		x ³ bvq		x	x g x c x e

PLANKTON

Station	Fl	Fa	Ap	Ac	E	Co	Cl	Ch	
<u>JIBBON.</u>									
30. 6.45 0 m		x	14x ² abc	2x d		5x ³ aev		3x ²	x g x e x c
7. 7.45 0 m				5x ² a 5x d		2x ² k		x ²	6x ² g x e x c x d
18. 8.45 0 m				x ⁿ a				x	x h x c x d
10. 9.45				x ⁴ a x b		8x ² k			x c
29.11.45 0 m		x		5x ² a		6x ² ba	x ² b		x b x g x d
24. 1.46 0 m		2x ²	2x ² da	x d		3x ³ abh	6x ³ cb x ² a	6x	x d
18. 3.46 0 m	x	x	5x ² a	3x ³ a x ³ d		5x ³ hab	3x ² bc 5x a	x	x d x e x c
2. 4.46 0 m		x	5x ² a	2x ³ d 4x ² a	x	36x ³ abh	24x ³ b 4x ³ a	8x ²	x ² i x g x e x d
27. 5.46 0 m	x		7x a	x ² a x d		3x ³ hng	7x b 9x a	7x	x g

PLANKTON

Station	Fl	Fa	Ap	Ac	E	Co	Cl	Ch	
JIBBON.									
12. 6.46 0 m		2x	x a	2x d		x ³ mnh	8x b 7x a	3x	x b x g
9. 7.46 0 m			7x a	x a	x a	15x ² bin		3x ²	2x c x d
25. 7.46 0 m		x	3x ² ab	2x ² a		2x ² bi			x c
9. 8.46 0 m		9x		x ² a		15x _{ab}			
20. 9.46 0 m		x		3x ² a 8x c		x ² a			
4. 10.46 0 m				3x ² a 2x ² d		3x ² ab	x b	x	
15.10.46 0 m				x ² d 3x a	x	x ⁴ abh	2x ² d	9x	x g x f
22.10.46 0 m	x	x			6x ²	9x ³ ab		4x	x c
30.10.46 0m		9x ²		2x ² d	2x 2x a	9x ² dhc			
11.12.46 0 m		x	3x a	3x ² a		3x ⁴ ahd	3x ⁴ bcd		
23.12.46 0 m		x		5x ² a 6x c		2x ³ hab		x	
3. 2.47 0 m		5x ²		x ² a		8x ³ ha	2x ⁴ bd 2x ² a	4x	
21. 2.47 0 m	x	4x	8x ³ a	2x ² d		2x ² ho			x c

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>JIBBON.</u>									
12. 3.47 0 m	x	x			x a	3x ³ hab	2x ² a	3x ²	x g x d
24. 3.47 0 m		x	x ³ a	2x ³ a		5x ³ hba		2x	x d
28. 4.47 0 m	x	x		x ² a x d		2x ³ oh	2x ³ b	3x	
27. 5.47 0 m		x	x ² a	3x ² d		5x ³ ha	2x a	2x ²	x i x c
9. 11.48 50-0 m		x ²		3x ² a		3x ² ka			
? .12.48 0 m	x	2x ⁴		2x a	7x ² a	2x ³ abd	4x ² cd	x	x b
25. 3.49 0 m		x	x b	3x a x d		x ² ab	x e	x	x c x d x e
2. 5.49 0 m		x	6x ² a	4x d		3x ³ hae	4x a	x ²	x d x a x c
29. 7.49 0 m	x	x	x _{ba}			2x ³ abh		4x	x d x a
12. 8.49 0 m	x	x	3x a			2x ² hsa		x	3x c x d
16. 8.49 0 m		2x ²	x a	2x d x a	x a	12x ² hba	x ² ba	2x	x ² c 2x g x d x a

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>JIBBON.</u>									
30. 8.49 0 m		2x	x a		x	16x ² abh	2x b		x d x a
6. 10.49 0 m		x	x a			3x ² abh	4x be	x	x d x a
27.10.49 0 m		2x			x a	16x ² abh	4x ² deb		x e x d
14.11.49 0 m		2x ²				4x ² ab			x d x i
28.11.49 0 m		x				4x hab	x bc		x b
14.12.49 0 m		2x ²	6x d			2x ³ abh	4x ² dc	x	x a x e
13. 1.50 0 m		15x ²	3x ² ad		x a	75x ² ab	3x ³ ebc	2x ²	
13. 2.50 0 m		12x ²				2x ⁴ abh		5x ²	x d
23. 3.50				15x ² _a		12x ³ hab	7x ³ _b 3x ³ _a	x	
26. 4.50 0 m		x	3x ³ ac	6x ² _a 3x ² _d		6x ³ mnb	4x ² _a 2x ² bc	2x ²	x ² _c x h
23. 5.50 0 m		3x ²				2x ³ abp		x ²	x e
1. 4.52 0 m		3x ²	9x ³ abc	8x ² _d		4x ³ bph	5x ³ _b 14x ² _a x ² _e	5x ²	

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
JIBBON									
1. 4.52 50-0 m			9x ² ac	5x d x a		4x ³ aph	3x ³ a 3x ² b 2x ² e	x ²	x d x f
1. 4.52 50-0 m			8x ² a x f	x ² d		4x ³ bap	3x ³ a x ² e 3x b	x ²	x d x c
7. 4.52 0 m		x ²	2x ³ ac	6x ² d		4x ⁴ abh	2x ³ a 9x ² bc	3x ²	3x ² d x c
7. 4.52 50-0 m	x	x	3x ² a 3x e	4x d		3x ³ hab	2x ³ a x ² e x ² bc	3x	x ² d 2x i
7. 4.52 50-0 m	x	2x	4x ² a 2x e			4.5x ² abh	4x ³ a 2x ² bc	5x	x c x a
16. 4.52 50-0m			2x ² a			7x ³ abp	35x ² a 4x ² bc 2x e	x ²	x c x f
16. 4.52 50-0 m			x ² a	2x d		55x ² abp	3x ³ a 2x ² b x e	5 x	2x f x c
24. 4.52 0 m	x ²	3x ²	6x ² a x ² e	8x ² d		4x ⁴ bhe	16x ³ a 5x ³ bc 2x ² e	3x ³	14x ² i 8x ² a 3x ² d
24. 4.52 50-0 m	2x		8x a 2x e	4x d		75x ² bhe	3x ³ a x ³ bc 3x e	2x ²	2x ² d 8x i

PLANKTON

Station	Fl	Fa	Ap	Ac	E	Co	Cl	Ch	
JIBBON.									
24. 4. 52 50-0 m	4x		x ² a 3x e	x ² d		6x ³ hbp	4x ³ a 6x ² bc 2x e	2x ²	6x d x i
9. 5. 52 0 m		x ³	6x ³ a 12x ² e	5x ² d		13x ⁴ bhp	16x ³ a 13x ³ bc x e	2x ²	6x ³ d 2x ³ i 2x ² e
9. 5. 52 50-0 m			6x ² a 3x ² e	4x d		12x ³ bhp	x ³ a 2x ² bc 3x e	x ²	x ² f
9. 5. 52 50-0 m			7x ² a 4x ² e	7x d		12x ³ bhp	x ³ bc 14x ² a 6x e	x ²	3x f
15. 5. 52 0 m		3x ²	3x ² a			12x ⁴ bhp	22x ³ a 31x ³ bc 3x ² e	x ³	x ² e x ² c
15. 5. 52 50-0 m		2x	9x a			6x ³ hab	27x ² a 6x ² bc 6x e	4x	x e x f x c x a
15. 5. 52 50-0 m		2x	5x a			6x ³ bhp	23x ² a 8x ² bc 3x e	7x	x ⁴ e x c x a
19. 5. 52 0 m		4x ²	5x ² a 2x ² e			6x ⁴ abh	x ⁴ a 2x ³ bc x e	x ³	x ² g x ² f x d x e

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>JIBBON.</u>									
19. 5.52 50-0 m	x	x	3x ² _{ac} 2x ² _e	x a		15x ³ _{bhp}	3x ³ _a 2x ² _b 3x e	4x ²	x e x i x d x f x c
19. 5.52 50-0 m	2x	x	2x ² _{ac} 2x ² _e	x d		12x ³ _{bhi}	2x ³ _a	3x ²	x d x i x f
29. 5.52 0 m	3x ²	3x ²	2x ³ _a 2x ² _e			4x ⁵ _{bah}	5x ³ _{bc} 8x ² _e	3x ³	13x ³ _g 9x ² _d 2x i
29. 5.52 50-0 m	x	2x	2x ² _a 5x e	x d		2x ⁴ _{ban}	2x ³ _a 2x e	4x ²	2x ² _g x d x i x c x e
29. 5.52 50-0 m	x		2x ² _a 4x e	2x ² _d		15x ³ _{abn}	2x ³ _a 8x b 4x e	4x ²	2x ² _g x i x c x e
18. 8.52 0 m	x	3x		2x ³ _a		5x kav		4x	6x c
18. 8.52 40-0 m	x	x		x d	x ² _a	15x ² _{bhe}		x	x i x g
18. 8.52 40-0 m						5x abh			
2. 4.53 0 m	2x		3x ³ _{abc}	2x d		6x ³ _{bhi}	3x ³ _{bc} 2x a	2x	

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cf	Ch	
JIBBON.									
21. 4.53 0 m		4x ²	5x ³ _a x e	2x d	3x ²	14x ³ arl	3x b	6x ²	x f x c
21. 4.53 50-0 m	2x	x	5x ³ _a	3x d	3x ² _a	2x ⁴ bai	x ³ _a	4x ²	x f x d x c
21. 4.53 50-0 m		2x	2x ³ _{ac} 2x f x e	5x d	x ² 8x a	x ⁴ blu	x ³ _a 2x e x b	4x ²	3x g 2x d x e x a x c
* 21. 4.53 50-0 m			4x ³ _{ab} x f	2x d	x ² _a	12x ³ _{ab}	2x ³ _{abi} 2x b x e	2x ²	2x g 2x f x a x i x d x c
† 21.4.53 50-0 m	x	2x	6x ³ _a x f		2x a	15x ³ lab	4x ³ _a 4x b	6x	x e x d x a x c
27. 4.53 0 m			12x ³ _a	2x ² _a 6x d	x a	16x ³ brs	13x ² _a 8x ² _b	14x ²	8x g 2x d x ² _c x e
27. 4.53 60-0 m	x	x	24x ² _{ac}	2x d	3x 5x a	16x ³ brs	x ³ _a	8x ²	3x d 2x f x e x i x c
* 1 ml outside regular station; † 1 ml inside regular station									

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>JIBBON.</u>									
27. 4. 53 50-0 m	2x		3x ² a	2x ² d x a	x ² a 8x	2x ⁴ bru	x ² a 3x b	8x ²	x ² d x ² a 3x f 2x i x e x c
11. 5. 53 0 m		6x ²			6x ² a	25x ³ hst	x ² b	7x ²	8x ² a 8x ² b 2x ² i x d
11. 5. 53 70-0 m			x ² a	x d	x ² a	4x ³ bhs	3x a 2x b	2x ²	3x a 2x g x d x i x c
11. 5. 53 70-0 m	x		x ² a	x d	4x ² a	6x ³ abh	6x a	2x ²	3x f 2x i x d x c x b
19. 5. 53 0 m	2x	5x	6x a	3x d	4x a	24x ³ ahr	2x ² a 8x b	2x ²	3x ² g x ² d 2x f 2x i 2x a
19. 5. 53 50-0 m		2x	x ² a		x ² a	7x ³ ibk	4x b 2x a	x ²	2x ² f 4x a 2x g x d x i x c

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>JIBBON.</u>									
19. 5.53 50-0 m	2x	2x	8x a		x ² a x	4x ³ bua	x b	x ²	x ² f 5x d 4x a 5x c 2x i
19. 5.53 100-0 m	3x		2x ³ a 2x e	7x d 3x a	2x ² 6x a	18x ³ biq	x a	x ³	3x ² f 8x g 6x a 4x c 2x d x i
25. 5.53 50-0 m	x	2x	2x ³ a 8x e	6x d x a	3x a	9x ³ bis		2x ²	7x f 3x d x g x c
25. 5.53 50-0 m		4x	6x ² a x e	x ² a x ² d 4x b	4x 4x a	9x ³ vbi	x b	2x ²	6x f 3x a x h x d x i x c
26. 5.53 0 m		2x	x ³ a x ² e	x ² a	x	4x ⁴ bir	x ² a	3x ²	x ² g x d x i x c
1. 6.53 0 m		x	x ² a	8x ² a 2x ² d		7x ³ bi	x ² b	5x	3x h x d x i x c

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>JIBBON.</u>									
1. 6.53 50-0 m	3x		12x ² ae	2x ² a x ² d	5x 3x a	9x ³ ubk	4x a x b	4x ²	3x c 2x f x h x g x d x i
30. 6.53 0 m		7x ²	4x ² a	6x ² a		4x ⁴ ihz	x ² a	5x ²	x h x a x c
30. 6.53 50-0 m	x	3x	7x a 2x e		7x a 4x	16x ³ bih	2x a	5x ²	5x c x h x d x f
30. 6.53 50-0 m	x		6x a 5x e	x a x d	7x a x	11x ³ bih		4x ²	5x c 3x a x f
6. 7.53 0 m		4x ²	3x ² a	8x ² a x d		12x ³ arz	3x ² a 3x ² b	3x ²	x ³ e x ² k x h x i x a x c
6. 7.53 60-0 m		2x	9x ² a 2x e	x d	2x 2x a	15x ³ bih	3x a x b	7x ²	4x d 4x c x g x h

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>JIBBON.</u>									
6. 7.53 60-0 m			5x ² a		8x a	12x ³ bih	3x a x b	5x ²	3x c x h x i x a
3. 8.53 0 m		6x		2x ³ a 2x d	x	9x ² hma	4x e	3x	2x h x b x g x d x c
3. 8.53 60-0 m	x	x		7x a x d	x ³ a 3x	7x ³ hla		6x	5x ² f 5x d x a x c
3. 8. 53 60-0 m			6x a	6x a	x ³ a 2x	5x ³ hla	2x b	x	5x ² f 7x d 2x c
2. 9.53 0 m	x	5x		6x ³ a 4x d	x	2x ³ kdc		5x	5x ² g x h x d x c
2. 9.53 50-0 m	x		x a x e	6x a	3x ² a 4x	4x ³ dcl		x ²	4x ² f 3x d 3x c 2x g x b

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>JIBBON.</u>									
2. 9.53 50-0 m		x	x a x e	x ² a 2x d	3x ² a 2x	5x ³ hdc	x b	2x ²	3x ² f 7x d 4x c 2x g x b
8. 9.53 0 m	x	2x ²		2x ⁴ a		4x ² kde			x g x c
8. 9.53 25-0 m	x	x	6x e 4x a	4x ³ a	8x a	x ³ dcu		8x	3x g 3x c 2x e
8. 9.53 50-0 m	x	2x	3x a x e	4x ³ a x d	4x a x	5x ² kdc			2x g 2x c x e x h x d x a
* 8. 9.53 0 m	x	x ³		16x ³ a	x	9x ² dke			x g x d x c
* 8. 9.53 50-0 m	x	x	4x ² e 6x c	4x ³ a 3x d	x ² a	3x ³ kdc	x b	9x	5x ² k 5x g 2x f 2x c x h x d

* 100 m Station

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>JIBBON.</u>									
* 8. 9.53 100-50 m			2x a 2x e	3x ² a x d	x ² a	4x ³ dcv		2x ²	4x c 2x f x d
6. 10.53 0 m	x			x ⁴ a		2x ³ ak			x d x h x e x b x a
6. 10.53 60-0 m				3x ² a	4x a	9x ³ abd	2x b x a	2x ²	5x ² k 2x ² f 5x c x b x a
6.10.53 60-0 m	x		x e	4x a	6x a	x ⁴ ba	6x _{bc} 2x a	2x ²	4x ² k x ² f 7x c x d
10.11.53 0 m		2x ³	4x b	4x ² a 2x ² c		5x ³ ak	5x ³ bc 3x e	x	2x h x c
* 10.11.53 0 m		4x		8x c 8x a	2x a	x ³ ab		x	x d x c
9.12.53 0 m	2x	5x	3x ² a			4x ³ abh	4x ² a 3x ² b	x	3x g 2x d

* 100 m Station

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>JIBBON.</u>									
13. 1.54 0 m		2x ²				3x ⁴ hb	84x ³ b	6x	2x i x d
⌘ 13. 1.54 0 m		5x ²		x d		5x ² abi	5x ³ bc		
⌘ 13. 1.54 0 m		6x				2x ³ hok	3x ⁴ bc		
23. 2.54 0 m			x ³ ac	6x ² d 2x ² a		3x ⁴ bnh	3x ³ a 3x ³ b	3x ³	x d x g
⌘ 23. 2.54 0 m			4x ² a	3x ² d		2x ⁴ bei	4x ³ b x ³ a	2x ³	8x i 6x g
⌘ 24. 3.54 0 m		3x	2x ² ab	6x ² d		x ³ aht	8x ² cb x ³ a	6x	
8. 4.54 0 m	2x	x ²	3x ab	7x ² d		9x ³ hbg	x ⁴ a x ³ b	5x ²	6x g 3x c
⌘ 8. 4.54 0 m	x		3x ² a	4x ² d x a		4x ³ heg	5x ³ a x ³ bc	4x ²	5x g x c
9. 6.54 0 m	x		5x ² abc 4x ei	x ² a 3x d		12x ³ abg	4x ² a 2x ² bc	4x ²	3x f 2x h

* 100 m Station

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>JIBBON.</u>									
9. 6.54 0 m	2x		3x ² abc x e	x d x a		4x ³ abi	x ² b 5x a	x ²	3x g 2x h
24. 6.54 0 m	x		x a	x ² a x d		3x ⁴ ang	6x ² a	x ³	2x h
24. 6.54 0 m		x	6x a	2x a		8x ³ aui	5x a	5x ²	x b x h x g
30. 6.54 0 m			x ² ab 4x e	x ² a 4x ed		x ³ abn	12x a		x h
30. 6.54 0 m	x	x ²	8x abc 5x e	4x a		3x ³ abn	6x a	12x	x h x b

* 100 m Station

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>ULLADULLA</u>									
2. 9.44 0 m			x ² c	3x ³ a		12x ³ dc			
7. 2.45 0 m		4x	8x ² b	6x a		x ³ wbi			x d
8. 3.45 0 m	x			5x a	x a	x ³ ic	x ² bc		x d
12. 4.45 0 m	x		8x ² a	7x ² a x d		3x ³ ebi		4x ²	4x h x c
3. 5.45 0 m	x		3x ³ abc 2x ² e	4x d 2x e		4x ³ hbn	6x ² bc 5x ² a	3x ³	9x c 3x g x e
11. 8.45 0 m		x		2x a		2x ² baw	2x cd		
14. 9.45 0 m	x		x a	7x a	x	x ² hab	x b		x e
4. 10.45 0 m		x		4x ² a		x ³ dc			x c
2. 11.45 0 m		3x				2x ³ ch		x	x c x e
25. 1.46 0 m		x	2x ² abc		x a	16x ³ abc	5x ³ e x ³ cbd x a	6x	x f
3. 4.46 0 m		x	3x ² a	2x ² d		3x ³ hbe	6x ³ 15x ² a	3x ²	4x c x h
3. 5.46 0 m	x	x	9x ² ab	9x ² d		6x ³ hen	15x ² a 15x ² bc	2x ²	x g x h

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>ULLADULLA</u>									
5. 7.46 0 m		3x ²	3x ² _{ab}	3x d	x a	2x ³ _{bha}		x	x g
1. 8.46 0 m			x ² _{ac}			9x ² _{wab}	x b	x	
6. 9.46 0 m				4x ³ _a		15x k			
4. 10.46 0 m	x	x		4x ³ _a	3x	15x _{kb}		x	x b
5. 12.46 0 m		x		2x ³ _a x e	x a	x ² _w			
2. 2.47 0 m		x		x ⁴ _a		x ² _{amk}			x b
6. 2.47 0 m			x a	3x ³ _a 7x c		x ² _k			x b x c
8. 5. 47 0 m	x	x	2x d	5x d	x	15x ³ _{nhb}	x ² _b	x ²	2x ² _e 5x g x b x c
5. 6.47 0 m						2x ² _{hia}			x a x c
15.10.48 0 m	x	6x	6x _{bc}	2x a x e	x x a	15x ³ _{ab}		x	
? 12.48 0 m	x	x			2x	2x ⁴ _{byl}		2x ²	x e x a
5. 3.49 0 m	x	x	4x a			2x ⁴ _{bat}	2x ³ _{bc} 5x a	x	x d

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>ULLADULLA.</u>									
7. 4.49 0 m	x	14x ²	9x ² a	5x ³ a x ² c		4x ⁴ hbe	15x ² cb 9x ² a	x ²	2x ³ g x d x a
5. 5.49 0 m					x a	5x ⁴ hu	2x ² b	2x ³	5x g x d x e x i x c
16. 8.49 0 m	x		4x dba	x d		x ² hfg		x	4x g 3x d
8. 11.49 0 m	x	3x	2x ca	3x d		2x ² agu	3x a 3x b x e	2x	x d x e x c
13. 12.49 0 m		x			x a	2x ³ dbh			x ⁴ c 4x g x d x e
13. 4.50 0 m		6x	8x ² cab	3x ² d x ² a		8x ³ bhn	12x ² a 8x ² b	8x	x g x h
13. 3.52 0 m		x ³	5x ² a	5x ² d		35x ³ bht	2x ⁴ a 15x ³ b	5x ²	2x ² i x d
24. 4.52 0 m		5x ²	5x ³ ab	2x ² d		12x ⁴ bht	34x ³ a 13x ³ bc	34x ²	2x ³ g 14x ² a 5x ² d 4x ² i 3x o
24. 4.52 50-0 m	x	2x	4x ² abg 6x e	3x d	2x ²	8x ³ bah	2x ³ a x ³ bc	x ²	2x i x f x c x g

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>ULLADULLA</u>									
24. 4.52 50-0 m	x	x	3x ² abg 4x e		2x ²	8x ³ bah	3x ³ a 2x ² b	2x ²	x d x g x c x f
12. 6.52 0 m			x b x i		x a	6x ² hab			x g x d x c
12. 2.53 0 m	x		6x ² a	7x a		9x ³ bxa	44x ³ b 22x ³ a	x ²	
10. 4.53 0 m		9x	5x ² a x ² e	2x d	x a	95x ² bas	x e	3x ²	2x g x i x c
16.5.53 0 m	x	6x	4x ² a 2x ² e	2x a 2x b 4x d x g	2x x a	65x ² bhi	3x b x a	4x ²	6x d 2x h 2x a x g x c
15. 7.53 0 m	x	4x	x ² a	x ² a	x ² a	2x ³ bch		8x	x ² c x h x i
5. 8.53 0 m		2x ³	2x ² a	3x a x d	6x ² 4x a	18x ² hid	2x b	3x	x g x d x e x e
5. 8.53 60-0 m	x	4x	5x ² a		3x ² a 6x	7x ³ lbi		x ²	3x f x e x c
5. 8.53 60-0 m		x	4x ² a		2x ² a x ²	8x ³ lbi	x e	6x	5x f 2x d x c x e

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>ULLADULLA.</u>									
8. 9.53 0 m		x		2x ² a		2x ² kdb	x b		
8. 9.53 60-0 m			4x d x e	5x ² a x d	5x a	4x ³ dl		3x	2x ² k 3x f 2x g 2x c
8. 9.53 60-0 m		x	2x a x e	2x ³ a x c	3x a	5x ³ ld		4x	x ² k 5x f 2x d x g x a x c
14.10.53 0 m	x	x ²	3x ³ ag 3x e	x ² a 2x e	4x a 3x	12x ³ dk	3x ³ d 2x ² e		3x ² g x ² c x ² f 3x h x d x e
11.11.53 0 m		5x ²	2x ³ a	35x ² a 2x d x h x c	x	16x ³ d h b	14x ³ b 12x ² e	3x	2x ³ h 3x ² f 3x ² g 5x b x e x a x c
11.11.53 60-0 m	2x	x	9x ² gb x ² e	5x ² c 7x a	8x a 4x	6x ³ dbg	3x ² b x ² e x a	x ²	x ² c 5x h 2x f x d

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>ULLADULLA.</u>									
11. 11. 53 60-0 m			x ² cb 5x e	x ² c 3x a 2x d	2x	5x ³ dab	8x bc 4x e x a	8x	2x f x c x h x e x d
DH10/54 5. 1. 54 60-30 m 0645 hrs					x x a	8x ² abm	x ² b 2x e	x	3x h
DH10/54 5. 1. 54 45-15 m 0655 hrs		2x	3x a x e		3x a	13x ² amn	7x ² b 2x ² a 2x ² e	x	x d x g x f x h
DH10/54 5. 1. 54 30-0 m 0700 hrs		3x	x a	x d	x	15x ² abn	x ³ b 2x ² a 2x ² e 2x c	x	2x g
DH10/54 5. 1. 54 60-0 m 0705 hrs		4x	2x a		3x a	7x ² amn	4x ² b 6x e 5x a	2x	x g
DH10/54 5. 1. 54 60-0 m 0712 hrs	2x	6x	x a		2x	16x ² abm	x ³ b 3x ² a 5x e 4x c	4x	
8. 1. 54 0 m	x	2x ²	4x ² abc			25x ² ab	2x ³ a		x c
9. 2. 54 0 m			3x ³ bc	2x ² d		4x ³ ha	4x ⁵ a 5x ³ bc	6x ²	2x ² g x c

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>EDEN.</u>									
8.12.45 0 m			x a			5x ² abd			x c
6. 2.46 0 m		x	2x a		6x a	5x ² ba			x a x f x g
6. 3.46 0 m				3x ³ a		5x ² _b			x f
1. 5.46 0 m	x	x	4x ² a	5x ² d 5x a x c		4x ³ ban	5x ² cb	x ²	x g
3. 7.46 0 m					x	8x ³ cbd		4x	x a x e
31. 7.46 0 m			x a			8x ² afy		x	3x a
4. 9.46 0 m					4x	5x b			x a x d
4. 9.46 0 m			x a		x	x ² a			x a x d
6.11.46 0 m		2x ²				x ³ awc	2x ³ d 8x ² e		x a x d
4.12.46 0 m		x	4x ² ba	5x d	x a	5x ³ abi		x ²	
3. 2.47 0 m		3x		x ³ a					
6. 5.47 0 m		x	8x ² ac	5x d 2x a		9x abh	3x ² bc	x ²	2x g x d x c

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>EDEN.</u>									
4. 6.47 0 m		x			5x ²	3x ² ac			
8. 7.47 0 m		x				2x ³ acy		x ²	x d
6. 8.49 0 m					6x	2x ² bc		x	x d x a x e
8.10.47 0 m				5x d x c	3x ³ a	3x ³ bc	5x d		x c x b
1. 6.48 0 m		x ²	3x c		2x x a	7x abc		x ²	x d
? 12.48 0 m		x				5x aby			
3. 3.49 0 m	x	2x ³	5x c	3x a		7x ² ayf	13x ² ebc		x c x d
6. 4.49 0 m		4x	9x a		x a	3x ⁴ hfa	5x ⁴ b x ³ a	3x	3x g x c x d
14.12.49 0 m		x ²			x ⁴ a	x ³ bch	2x ² d	x	x ³ d x c x a
16. 3.50 0 m	x	5x	2x ² a	9x d	4x ³	6x ³ hcb	x ³ b	8x	x ² g 2x c x i x d
12. 4.50 0 m		6x ²	2x ² c	5x ² a 5x d	x	8x ³ bce	x ³ b 2x a	3x ²	3x d 2x g 2x i

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>EDEN.</u>									
12. 7.50 0 m		x	x a	x d		7x hbf		x	
26. 7.51 0 m		x			x	5x ² wbc			x a
26. 7.51 50-0 m					x	2x ³ wba		2x	2x a
22. 4.52 0 m		4x ²	3x ² _b 2x ² _h	x a x d		2x ⁴ hab	3x ³ _b 8x ² _a	3x ²	x d x i
22. 4.52 60-0 m	x	3x	x ² ab 2x h	3x d		3x ³ whb	2x ² _b x a	x	15x ² _j x ² _e x c
22. 4.52 60-0 m	x	2x	3x ² _b 2x h	5x d		3x ³ abw	2x ² _b x ² _a x e	2x	x ² _e x d x j x c
11. 6.52 0 m	x		2x d		7x x a	14x ² wab		2x ²	x ² _i 3x d
DH1/52 8. 8.52 500-0 m 1508 hrs		3x	3x a	5x d	4x	9x ³ lwi		x ²	x ² _f 4x d
DH1/52 8. 8.52 500-0 m 1535 hrs.	x	4x			5x	11x ³ lqv	x b	2x ²	4x f x c
DH1/52 8. 7.52 0 m 1543 hrs		4x ³	4x ² _a	x ² _d	5x ³	22x ⁴ ahl	x ³ _b	6x ²	x ² _g x d

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>EDEN.</u>									
DH2/52 8. 8.52 77-0 m 1950 hrs			6x ² a x ² e	x d x c x h	5x 2x ² a	6x ³ bid	7x dc	5x	9x c 8x d
DH2/52 8. 8.52 77-0 m 2010 hrs			3x ² a 2x ² e	2x c	x ²	7x ³ bid	2x ² b	7x	x g x c
DH2/52 8. 8.52 77-0 m 2017 hrs	x		4x ² a x ² e	2x d	2x ² a	3x ³ bid	6x b 2x c x e	3x	x ² d 2x c
18. 9.52 0 m	x	2x ²		x ³ a x c		5x ² cd			2x a x c
15.10.52 0 m				x a		x ² c			x c x a x k
11. 2.53 0 m		x		6x ² a x c		25x ² buc	2x ³ b x ³ e	x	3x ² d x c
8. 4.53 0 m		6x	9x ³ bae	3x a 4x d		15x ³ bhc	8x ² bce	x	2x g x e x i x c
13. 5.53 0 m	x	5x	8x a		2x a	15x ³ hib	x ² b 5x a	2x ²	2x ² d 6x g x c
13. 5.53 60-0 m			2x a	x d		23x ² abh	2x a x b x e	6x	3x f x d x c

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>EDEN.</u>									
13. 5.53 60-0 m		3x	x f		x a	13x ² abh	4x a x b	x	x c
10. 6.53 0 m					6x	17x ² aif		x	x b x h x c
10. 6.53 60-0 m			x a		7x a	15x ³ aic		2x	x ² f x e x c
10. 6.53 60-0 m			x ² a		3x	x ⁴ aic		8x	x d x c
8. 7.53 0 m					3x	2x ³ wbf		x	x g x f x a
8. 7.53 60-0 m					x a	15x ³ abi	x b	6x	x a
8. 7.53 60-0 m					x a	15x ³ abi		4x	x d
7. 8.53 0 m		x		2x c		15x ³ abi		x	x d
7. 8.53 60-0 m				2x b x c x g	2x 2x a	16x ³ ibc		4x	x c
7. 8.53 60-0 m				x g	4x a	21x ³ ibd		7x	x ² d x c
9. 9.53 0 m				34x ² 7x ² a		3x ² k			x d x a

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>EDEN.</u>									
9. 9.53 60-0 m	x			9x ² c	x ² a 2x	4x ³ abd		3x	6x d x c
9. 9.53 60-0 m				2x ³ c	2x a	5x ³ abd			x ² d x f x e x c
14.10.53 0 m		x ²	2x ² a		3x a	14x ³ dca	7x ³ d 7x ² eb	x	
14.10.53 60-0 m	x	x	x ² a 9x e	x e	x ² a	15x ³ abh	8x ² d x ³ e	2x	3x ² c x ² d 3x a
14.10.53 60-0 m	x	x	x ³ ab 4x e	x e	2x ² a	12x ³ cba	8x ² d 2x e	x	7x d x c
11.11.53 0 m					5x a 2x	4x ³ cab	8x e		2x c x a
11.11.53 60-0 m			6x a		6x ³ a 3x	43x ³ abi	x b	2x	4x d x c
11.11.53 60-0 m			2x a		4x ³ a 3x	25x ³ abi	2x b	x	6x d
2. 12.53 0 m	x	x			x ² a	7x ² ab			x d x a
2. 12.53 60-0 m					5x a x	x ⁴ baf		x	x j x e
2. 12.53 60-0 m					7x ³ a	x ⁴ baf			x d x j

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>EDEN.</u>									
DH8/54 3. 1.54 60-30 m 1515 hrs						x^2 abc		x	x e x d
DH8/54 3. 1.54 45-15 m 1520 hrs	x	x		x d	x x a	$2x^2$ ads		3x	x h x d
DH8/54 3. 1.54 30-0 m 1525 hrs			x a	6x a x c x d	x	$3x^3$ sbv		7x	x^2 d x h x c
DH8/54 3. 1.54 60-0 m 1530 hrs				x c x a	x a	$3x^2$ asv		x	x e x d
DH8/54 3. 1.54 60-0 m 1535 hrs				2x a x d	3x	x^3 sdb		3x	x e x d x h x a
DH8/54 3. 1.54 0 m 1605 hrs	x	x	x a	$5x^2$ a x c	4x	$3x^4$ mna		x^2	$3x^2$ h $2x^2$ d x e x c
DH9/54 4. 1.54 500-400 m 1355 hrs						$2x$ mb			

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>EDEN.</u>									
DH9/54 4. 1.54 400-300 m 1415 hrs						2x _{aw}		x	x e
DH9/54 4. 1.54 300-200 m 1430 hrs					x·a	x ² _{mb}		x	
DH9/54 4. 1.54 50-0 m 1500 hrs			x a	2x c		4x ³ _{nma}		6x	x h x a
DH9/54 4. 1.54 500-0 m 1515 hrs				x c x d	x	4x ³ _{nab}		3x	5x h
DH9/54 4. 1.54 500-0 m 1535 hrs					x	x ³ _{naw}		x	x f x h x e x a
DH9/54 4. 1.54 200-100 m 1542 hrs						x _m		x	
DH9/54 4. 1.54 100-50 m 1555 hrs				x d	x	7x ² _{amn}		2x	x h x a
DH9/54 4. 1.54 0 m 1625 hrs				2x·c x d	x	33x ³ _{abw}		8x ²	2x h 2x a x d

PLANKTON

Station	Fl	Fe	Ap	Ac	E	Co	Cl	Ch	
<u>EDEN.</u>									
6. 1.54 0 m	x		x ² cd	2x ² a		x ³ abu	2x a	8x	4x h x b x c x g x e
6. 1.54 60-0 m			x abc	x a		4x ² abc	2x e x b	x	
6. 1.54 60-0 m			x a	x a	x	4x ² acn	x e	x	x c
12. 2.54 0 m	x	x		4x ² d		35x ² abh	6x ³ b 3x ³ a	x ²	8x g x c x b
12. 2.54 60-0 m			2x ² bc	x ³ d 8x a 2x e		9x ³ abh	9x ³ a	3x	3x g x c
12. 2.54 60-0 m			2x ² bc	x ³ d 8x a 2x e		9x ³ abh	9x ³ a	3x	3x g x c