

**Zooplankton Data Collected with BIOMASS Programme
at Syowa Station in 1982 by JARE-23
II. "NIPR-I" Samples : Stn. 3**

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As part of the International BIOMASS (Biological Investigations of Marine Antarctic Systems and Stocks) programme, the Japanese Antarctic Research Expedition (JARE) conducted a three-year programme of marine biological investigations in the fast ice area near Syowa Station between 1982 (JARE-23) and 1984 (JARE-25). Zooplankton was sampled at six stations using three kinds of nets (i.e. Norpac net, Parasol net and "NIPR-I" sampler). Details of the sampling methods and the sampling frequencies are published in JARE Data Reports, No. 98 (Fukuchi *et al.*, 1985).

This report summarizes the data on zooplankton collected with "NIPR-I" sampler at Stn. 3 during the JARE-23 overwintering programme in 1982 (Fig. 1). A total of 272 samples were obtained with modified "NIPR-I" sampler from 8 layers between 0 and 40 m depths during March through December in 1982 (Fukuchi *et al.*, 1985). The sampling system of the modified "NIPR-I" sampler is shown in Fig. 2. The results of the primary sorting are presented here.

Zooplankton were sorted into 29 categories as shown in the attached tables. Copepoda (Category 9) were comprised of Calanoida, Cyclopoida and Harpacticoida. Euphausiacea were counted separately for the nauplius stages (Category 24) and the other stages (Category 15). Eggs (Category 23) include those of crustacean and benthic invertebrates, etc. Planktonic larval forms (Category 27) includes benthic invertebrate larvae other than Polychaeta

(Category 6). Sample processing and treatment of the data were the same as described in preceding reports (Tanimura *et al.*, 1989, 1990). Specimens for each category were sorted into individual vials and preserved with formalin (3% in seawater). These are retained at the National Institute of Polar Research, Tokyo.

We hope that this publication and the curated specimens will be of use other scientists. Further details about data and specimens can be obtained from:

Department of Biological Data
Division of Data Collection and Processing
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References

- Fukuchi, M., Tanimura, A., Ohtsuka, H. and Hoshiai, T. (1985): Marine biological data of BIOMASS programme at Syowa Station in the 1982 winter (JARE-23). JARE Data Rep., 98 (Mar. Biol. 6), 113p.
- Tanimura, A., Fukuchi, M., Ohtsuka, H. and Hoshiai, T. (1989): Zooplankton data collected with BIOMASS programme at Syowa Station in 1982 by JARE-23. I. Norpac net samples. JARE Data Rep., 147 (Mar. Biol. 15), 162p.
- Tanimura, A., Fukuchi, M., Ohtsuka, H. and Hoshiai, T. (1990): Zooplankton data collected with BIOMASS programme at Syowa Station in 1982 by JARE-23. II. "NIPR-I" samples: Stn.1. JARE Data Rep., 158 (Mar. Biol. 17), 75p.

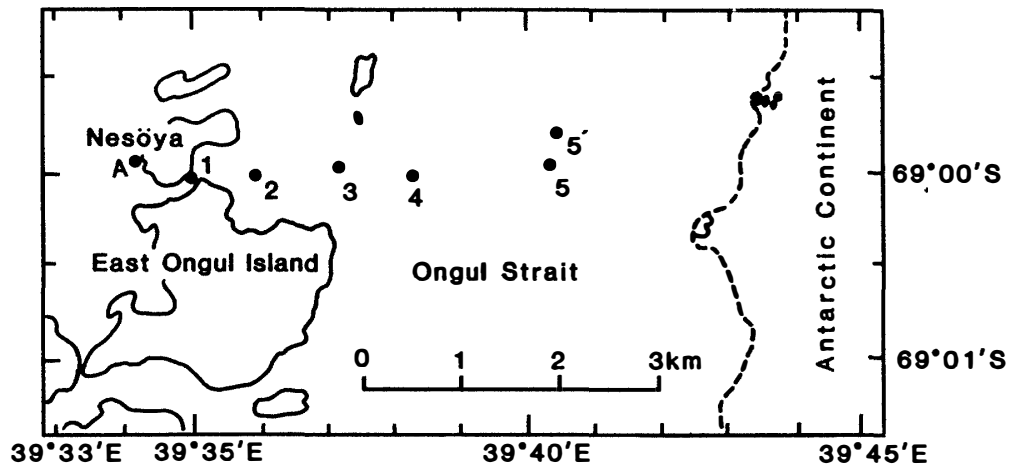


Fig. 1. Sampling locations for routine observations during JARE-23. The results of the primary sorting of the zooplankton collected at Stn. 3 from Ongul Strait are reported here.

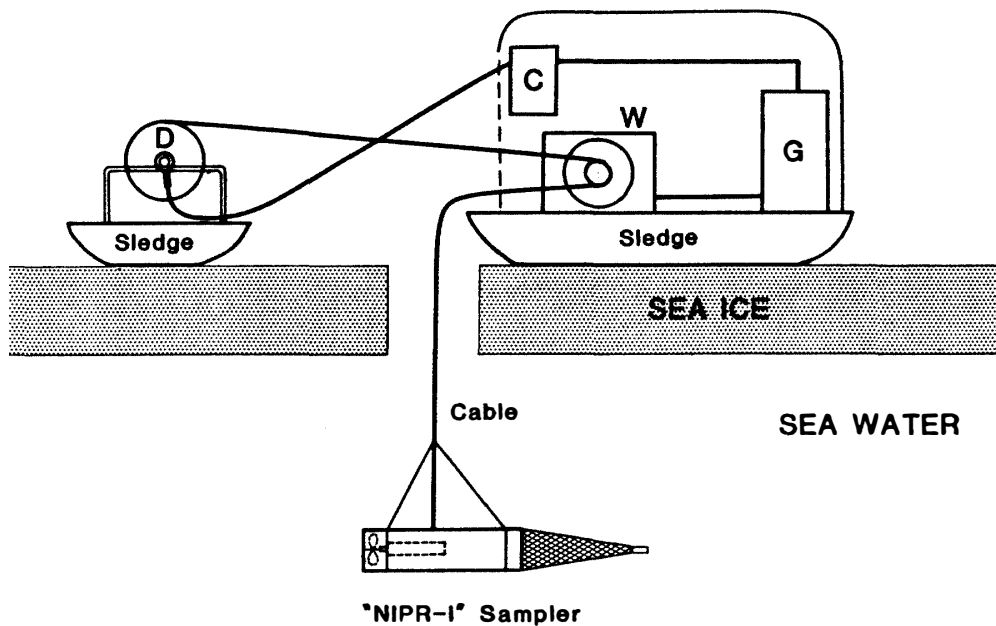


Fig. 2. Modified "NIPR-I" sampler for zooplankton collection under the sea ice.
 C: Control box for the sampler; G: Electric generator to drive winch and sampler; W: Winch; D: Cable drum

ZOOPLANKTON RECORD SHEET

Series No. NIPR-073

1. Sample No. <u>2303001</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)※..... <u>0</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>G0 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>2893</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>4.6</u>
7. Date & time(LMT) <u>Mar. 1 '82, 11:58-12:01</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-I(100 μm)</u>	18. Settling volume(cc) per m ³ ..
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>1118</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	19					19	4
7. Cladocera							0	0
8. Ostracoda	I-8	4					4	1
9. Calanoida Copepoda	I-9-1	15					15	3
Cyclopoida Copepoda			II-9-2	347			3470	754
Harpacticoida Copepoda	I-9-3	102					102	22
10. Copepoda, nauplius			II-10	134			1340	291
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	115					115	25
22. Thaliacea							0	0
23. Egg	I-23	39					39	8
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	27					27	6
28. Unidentified forms	I-28	10					10	2
29. Radiolaria							0	0
Total		333		481		0	5143	1118

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-074

1. Sample No. 2303002	11. Wire run out(m).....
2. JARE..... 23	12. Wire angle(').....
3. Area..... Syowa Station	13. Depth of haul(m)※..... 1
4. Station No. 3	estimated by
5. Position..... 68° 59' 57" S	14. Flow-meter used..... GO 2030
39° 37' 16" E	15. Flow-meter reading..... 2698
6. Sea depth(m).... 50	16. Volume of water filtered(m ³) 4.29
7. Date & time(LMT) Mar. 1 '82, 12:04-12:07	calculated by Flow-meter
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³ ..
9. Method of haul.. Layered	19. Total number per m ³ 155
10. Duration of haul 3 min	

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	8					8	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	2					2	+
Cyclopoida Copepoda	I-9-2	354					354	83
Harpacticoida Copepoda	I-9-3	57					57	13
10. Copepoda, nauplius	I-10	27					27	6
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	163					163	38
22. Thaliacea							0	0
23. Egg	I-23	42					42	10
24. Euphausiacea, nauplius							0	0
25. Nematoda	I-25	1					1	+
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	5					5	1
28. Unidentified forms	I-28	5					5	1
29. Radiolaria							0	0
Total		665		0		0	665	155

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-075

1. Sample No. <u>2303003</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT) Mar. 1 '82, 12:11-12:14	16. Volume of water filtered (m ³)
(GMT)	calculated by <u>Flow-meter</u>
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul	18. Settling volume (cc) per m ³
10. Duration of haul <u>3 min</u>	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	71					71	14
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	18					18	4
Cyclopoida Copepoda			II-9-2	333			3330	678
Harpacticoida Copepoda	I-9-3	38					38	8
10. Copepoda, nauplius			II-10	53			530	108
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	6					6	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	309					309	63
22. Thaliacea							0	0
23. Egg	I-23	113					113	23
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	26					26	5
28. Unidentified forms	I-28	38					38	8
29. Radiolaria	I-29	2					2	+
Total		622		386		0	4482	913

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-076

1. Sample No. <u>2303004</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No. <u>3</u>	estimated by
5. Position	14. Flow-meter used
<u>68° 59' 57" S</u>	15. Flow-meter reading
<u>39° 37' 16" E</u>	16. Volume of water filtered (m ³)
6. Sea depth (m) <u>50</u>	calculated by <u>Flow-meter</u>
7. Date & time (LMT) <u>Mar. 1 '82, 12:18-12:21</u>	(GMT)
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul .. <u>Layered</u>	18. Settling volume (cc) per m ³ ..
10. Duration of haul <u>3 min</u>	19. Total number per m ³
	<u>629</u>

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora							0	0
3. Other medusae	I-3	1					1	+
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	51					51	11
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	17					17	4
Cyclopoida Copepoda			II-9-2	1188			2376	513
Harpacticoida Copepoda	I-9-3	32					32	7
10. Copepoda, nauplius			II-10	55			110	24
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	3					3	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	164					164	35
22. Thaliacea							0	0
23. Egg	I-23	130					130	28
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	7					7	2
28. Unidentified forms	I-28	17					17	4
29. Radiolaria							0	0
Total		423		1243		0	2309	629

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-077

1. Sample No. <u>2303005</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)※..... <u>10</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>GO 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>3180</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>5.05</u>
7. Date & time(LMT) <u>Mar. 1 '82, 12:25-12:28</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-I(100 μm)</u>	18. Settling volume(cc) per m ³ ..
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>632</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		3/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	1					1	+
6. Polychaeta	I-6	86					86	17
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	21					21	4
Cyclopoida Copepoda			II-9-2	751			2503	496
Harpacticoida Copepoda	I-9-3	21					21	4
10. Copepoda, nauplius			II-10	54			180	36
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	201					201	40
22. Thaliacea							0	0
23. Egg	I-23	126					126	25
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	4					4	1
28. Unidentified forms	I-28	44					44	9
29. Radiolaria							0	0
Total		507		805		0	3190	632

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-078

1. Sample No.	2303008	11. Wire run out (m)	_____
2. JARE	23	12. Wire angle (°)	_____
3. Area	Syowa Station	13. Depth of haul (m) *	20
4. Station No.	3	estimated by	_____
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	2829
6. Sea depth (m)	50	16. Volume of water filtered (m ³)	4.5
7. Date & time (LMT) Mar. 1 '82, 12:32-12:35		calculated by	Flow-meter
(GMT)		17. Wet weight (mg) per m ³	_____
8. Net used	Modified NIPR-I (100 μm)	18. Settling volume (cc) per m ³ ..	_____
9. Method of haul ..	Layered	19. Total number per m ³	355
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	29					29	6
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	49					49	11
Cyclopoida Copepoda	I-9-2	1129					1129	251
Harpacticoida Copepoda	I-9-3	9					9	2
10. Copepoda, nauplius	I-10	31					31	7
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	121					121	27
22. Thaliacea							0	0
23. Egg	I-23	193					193	43
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	7					7	2
28. Unidentified forms	I-28	27					27	6
29. Radiolaria							0	0
Total		1597		0		0	1597	355

+ : less than 1 indiv./m³

* Depth from m beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-079

1. Sample No. 2303007	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No. 3	estimated by
5. Position	14. Flow-meter used
68° 59' 57" S	15. Flow-meter reading
39° 37' 16" E	16. Volume of water filtered (m ³)
6. Sea depth (m) 50	calculated by
7. Date & time (LMT) Mar. 1 '82, 12:40-12:43	17. Wet weight (mg) per m ³
(GMT)	18. Settling volume (cc) per m ³
8. Net used	19. Total number per m ³
9. Method of haul .. Layered	
10. Duration of haul 3 min	

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	9					9	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	36					36	8
Cyclopoida Copepoda	I-9-2	192					192	42
Harpacticoida Copepoda	I-9-3	2					2	+
10. Copepoda, nauplius	I-10	7					7	2
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	15					15	3
22. Thaliacea							0	0
23. Egg	I-23	53					53	11
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	4					4	1
28. Unidentified forms	I-28	13					13	3
29. Radiolaria							0	0
Total		331		0		0	331	72

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-080

1. Sample No. 2303008	11. Wire run out(m).....
2. JARE..... 23	12. Wire angle(').....
3. Area..... Syowa Station	13. Depth of haul(m)※..... 45
4. Station No. 3	estimated by
5. Position..... 88° 59' 57" S	14. Flow-meter used..... GO 2030
39° 37' 18" E	15. Flow-meter reading..... 2845
6. Sea depth(m).... 50	16. Volume of water filtered(m ³) 4.53
7. Date & time(LMT) Mar. 1 '82, 12:53-12:56	calculated by Flow-meter
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... Modified NIPR-1(100 μm)	18. Settling volume(cc) per m ³ ..
9. Method of haul.. Layered	19. Total number per m ³ 37
10. Duration of haul 3 min	

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-8	3					3	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	15					15	3
Cyclopoida Copepoda	I-9-2	102					102	23
Harpacticoida Copepoda	I-9-3	7					7	2
10. Copepoda, nauplius	I-10	1					1	+
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	38					38	8
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		168		0		0	168	37

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-081

1. Sample No. <u>2303009</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)※..... <u>0</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>GO 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>2375</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>4.74</u>
7. Date & time(LMT) <u>Mar. 1 '82, 17:20-17:23</u>	calculated by <u>Assumption</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-1(100 μm)</u>	18. Settling volume(cc) per m ³ ..
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>850</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	107					107	23
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	3					3	1
Cyclopoida Copepoda			II-9-2	251			2510	530
Harpacticoida Copepoda	I-9-3	67					67	14
10. Copepoda, nauplius			II-10	127			1270	268
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	34					34	7
22. Thaliacea							0	0
23. Egg	I-23	14					14	3
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	15					15	3
28. Unidentified forms	I-28	6					6	1
29. Radiolaria							0	0
Total		246		378		0	4026	850

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-082

1. Sample No.	2303010	11. Wire run out(m)	
2. JARE	23	12. Wire angle(')	
3. Area	Syowa Station	13. Depth of haul(m) *	1
4. Station No.	3	estimated by	
5. Position	88° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 18" E	15. Flow-meter reading	3016
6. Sea depth(m)	50	16. Volume of water filtered(m ³)	4.79
7. Date & time(LMT) Mar. 1 '82, 17:25-17:28		calculated by	Flow-meter
(GMT)		17. Wet weight(mg) per m ³	
8. Net used	Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	853
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	52					52	11
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	5					5	1
Cyclopoida Copepoda			II-9-2	304			3040	635
Harpacticoida Copepoda	I-9-3	33					33	7
10. Copepoda, nauplius			II-10	87			870	182
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	52					52	11
22. Thaliacea							0	0
23. Egg	I-23	21					21	4
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	9					9	2
28. Unidentified forms	I-28	2					2	+
29. Radiolaria							0	0
Total		178		391		0	4086	853

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-084

1. Sample No.	<u>2303012</u>	11. Wire run out(m)	_____
2. JARE	<u>23</u>	12. Wire angle(')	_____
3. Area	<u>Syowa Station</u>	13. Depth of haul(m) *	<u>5</u>
4. Station No.	<u>3</u>	estimated by	_____
5. Position	<u>68° 59' 57" S</u> <u>39° 37' 16" E</u>	14. Flow-meter used	<u>GO 2030</u>
6. Sea depth(m)	<u>50</u>	15. Flow-meter reading	<u>3103</u>
7. Date & time(LMT) <u>Mar. 1 '82, 17:37-17:40</u>		16. Volume of water filtered(m ³)	<u>4.93</u>
(GMT)		calculated by	<u>Flow-meter</u>
8. Net used	<u>Modified NIPR-I(100 μm)</u>	17. Wet weight(mg) per m ³	_____
9. Method of haul ..	<u>Layered</u>	18. Settling volume(cc) per m ³ ..	_____
10. Duration of haul	<u>3 min</u>	19. Total number per m ³	<u>918</u>

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora	I-2	1					1	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	145					145	29
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	15					15	3
Cyclopoida Copepoda			II-9-2	310			3100	629
Harpacticoida Copepoda	I-9-3	8					8	2
10. Copepoda, nauplius			II-10	96			960	195
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	6					6	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	107					107	22
22. Thaliacea							0	0
23. Egg	I-23	164					164	33
24. Euphausiacea, nauplius							0	0
25. Nematoda	I-25	1					1	+
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	12					12	2
28. Unidentified forms	I-28	6					6	1
29. Radiolaria							0	0
Total		465		406		0	4525	918

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-085

1. Sample No. <u>2303013</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT) Mar. 1 '82, 17:45-17:48	16. Volume of water filtered (m ³)
(GMT)	calculated by <u>Flow-meter</u>
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul ..	18. Settling volume (cc) per m ³ ..
10. Duration of haul <u>3 min</u>	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	126					126	28
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	13					13	3
Cyclopoida Copepoda			II-9-2	357			1785	391
Harpacticoida Copepoda	I-9-3	16					16	4
10. Copepoda, nauplius			II-10	57			285	62
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	158					158	35
22. Thaliacea							0	0
23. Egg	I-23	62					62	14
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	5					5	1
28. Unidentified forms	I-28	20					20	4
29. Radiolaria							0	0
Total		402		414		0	2472	542

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-086

1. Sample No. 2303014
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) Mar. 1 '82, 17:53-17:56
 (GMT)
 8. Net used Modified NIPR-I (100 μm)
 9. Method of haul .. Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 20
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 2939
 16. Volume of water filtered (m³) 4.67
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³ ..
 19. Total number per m³ 599

Proportion of Sample sorted	1/1 Sample [Sort I]		3/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	98					98	21
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	41					41	9
Cyclopoida Copepoda			II-9-2	667			2223	476
Harpacticoida Copepoda	I-9-3	8					8	2
10. Copepoda, nauplius			II-10	61			203	43
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	128					128	27
22. Thaliacea							0	0
23. Egg	I-23	66					66	14
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	16					16	3
28. Unidentified forms	I-28	11					11	2
29. Radiolaria							0	0
Total		370		728		0	2796	599

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-087

1. Sample No. 2303015
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) Mar. 1 '82, 18:04-18:07
 (GMT)
 8. Net used Modified NIPR-I (100 μm)
 9. Method of haul Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 30
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3013
 16. Volume of water filtered (m³) 4.79
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 117

Proportion of Sample sorted	Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora	I-2	2					2	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	24					24	5
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	24					24	5
Cyclopoida Copepoda	I-9-2	398					398	83
Harpacticoida Copepoda	I-9-3	6					6	1
10. Copepoda, nauplius	I-10	27					27	6
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	46					46	10
22. Thaliacea							0	0
23. Egg	I-23	20					20	4
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	4					4	1
28. Unidentified forms	I-28	9					9	2
29. Radiolaria							0	0
Total		562		0		0	562	117

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-088

1. Sample No. <u>2303016</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)※..... <u>45</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>G0 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>2283</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>4.74</u>
7. Date & time(LMT) <u>Mar. 1 '82, 18:17-18:20</u>	calculated by <u>Assumption</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-I(100 μm)</u>	18. Settling volume(cc) per m ³ ..
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>21</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora	I-2	1					1	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	11					11	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	7					7	1
Cyclopoida Copepoda	I-9-2	55					55	12
Harpacticoida Copepoda	I-9-3	2					2	+
10. Copepoda, nauplius	I-10	1					1	+
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	8					8	2
22. Thaliacea							0	0
23. Egg	I-23	12					12	3
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	1					1	+
29. Radiolaria							0	0
Total		99		0		0	99	21

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-089

1. Sample No. <u>2303017</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT) <u>Mar. 1 '82, 23:03-23:06</u>	16. Volume of water filtered (m ³) <u>4.78</u>
(GMT)	calculated by <u>Flow-meter</u>
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul	18. Settling volume (cc) per m ³
10. Duration of haul <u>3 min</u>	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	2					2	+
2. Siphonophora							0	0
3. Other medusae	I-3	1					1	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	1					1	+
6. Polychaeta	I-6	443					443	93
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	12					12	3
Cyclopoida Copepoda			II-9-2	553			5530	1157
Harpacticoida Copepoda	I-9-3	108					108	23
10. Copepoda, nauplius			II-10	172			1720	360
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	14					14	3
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	349					349	73
22. Thaliacea							0	0
23. Egg	I-23	77					77	16
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	38					38	8
28. Unidentified forms	I-28	13					13	3
29. Radiolaria							0	0
Total		1058		725		0	8308	1739

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-090

1. Sample No. 2303018	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT) Mar. 1 '82, 23:09-23:12	16. Volume of water filtered (m ³)
(GMT)	calculated by
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul	18. Settling volume (cc) per m ³
10. Duration of haul 3 min	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	211					211	47
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	21					21	5
Cyclopoida Copepoda			II-9-2	253			2530	561
Harpacticoida Copepoda	I-9-3	19					19	4
10. Copepoda, nauplius			II-10	48			480	106
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	4					4	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	179					179	40
22. Thaliacea							0	0
23. Egg	I-23	120					120	27
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	12					12	3
28. Unidentified forms	I-28	6					6	1
29. Radiolaria							0	0
Total		572		301		0	3582	795

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-091

1. Sample No. <u>2303019</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT) Mar. 1 '82, 23:16-23:19	16. Volume of water filtered (m ³)
(GMT)	calculated by <u>Flow-meter</u>
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul	18. Settling volume (cc) per m ³
10. Duration of haul <u>3 min</u>	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	258					258	51
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	13					13	3
Cyclopoida Copepoda			II-9-2	250			2500	492
Harpacticoida Copepoda	I-9-3	17					17	3
10. Copepoda, nauplius			II-10	71			710	140
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	277					277	55
22. Thaliacea							0	0
23. Egg	I-23	148					148	29
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	12					12	2
28. Unidentified forms	I-28	10					10	2
29. Radiolaria							0	0
Total		736		321		0	3948	777

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-092

1. Sample No. 2303020
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) Mar. 1 '82, 23:22-23:25
 (GMT)
 8. Net used Modified NIPR-I (100 μm)
 9. Method of haul Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 5
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 2904
 16. Volume of water filtered (m³) 4.62
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 796

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	235					235	51
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	27					27	6
Cyclopoida Copepoda			II-9-2	490			2450	530
Harpacticoida Copepoda	I-9-3	9					9	2
10. Copepoda, nauplius			II-10	82			410	89
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	6					6	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	363					363	79
22. Thaliacea							0	0
23. Egg	I-23	146					146	32
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	8					8	2
28. Unidentified forms	I-28	19					19	4
29. Radiolaria							0	0
Total		813		572		0	3673	796

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-093

1. Sample No. <u>2303021</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)※..... <u>10</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>GO 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>3116</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>4.95</u>
7. Date & time(LMT) <u>Mar. 1 '82, 23:28-23:31</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-I(100 μm)</u>	18. Settling volume(cc) per m ³ ..
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>566</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora	I-2	2					2	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	159					159	32
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	32					32	6
Cyclopoida Copepoda			II-9-2	372			1860	376
Harpacticoida Copepoda	I-9-3	6					6	1
10. Copepoda, nauplius			II-10	44			220	44
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	302					302	61
22. Thaliacea							0	0
23. Egg	I-23	161					161	33
24. Euphausiacea, nauplius							0	0
25. Nematoda	I-25	2					2	+
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	15					15	3
28. Unidentified forms	I-28	43					43	9
29. Radiolaria							0	0
Total		723		416		0	2803	566

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-094

1. Sample No. 2303022 11. Wire run out(m)..... _____
 2. JARE..... 23 12. Wire angle(')..... _____
 3. Area..... Syowa Station 13. Depth of haul(m)※..... 20
 4. Station No. 3 estimated by _____
 5. Position..... 68° 59' 57" S 14. Flow-meter used..... G0 2030
39° 37' 16" E 15. Flow-meter reading..... 3364
 6. Sea depth(m).... 50 16. Volume of water filtered(m³) 5.34
 7. Date & time(LMT) Mar. 1 '82, 23:34-23:37 calculated by Flow-meter
 (GMT) 17. Wet weight(mg) per m³..... _____
 8. Net used..... Modified NIPR-I(100μm) 18. Settling volume(cc) per m³.. _____
 9. Method of haul.. Layered 19. Total number per m³..... 314
 10. Duration of haul 3 min

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae	I-3	1					1	+
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	50					50	9
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	66					66	12
Cyclopoida Copepoda			II-9-2	633			1266	237
Harpacticoida Copepoda	I-9-3	2					2	+
10. Copepoda, nauplius	I-10	47					47	9
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	78					78	15
22. Thaliacea							0	0
23. Egg	I-23	137					137	26
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	14					14	3
28. Unidentified forms	I-28	18					18	3
29. Radiolaria							0	0
Total		413		633		0	1679	314

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-095

1. Sample No. 2303023
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) Mar. 1 '82, 23:40-23:43
 (GMT)
 8. Net used Modified NIPR-1 (100 μm)
 9. Method of haul Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 30
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 2876
 16. Volume of water filtered (m³) 4.57
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 228

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	16					16	4
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	64					64	14
Cyclopoida Copepoda			II-9-2	362			724	158
Harpacticoida Copepoda	I-9-3	3					3	1
10. Copepoda, nauplius	I-10	31					31	7
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	55					55	12
22. Thaliacea							0	0
23. Egg	I-23	132					132	29
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	3					3	1
28. Unidentified forms	I-28	10					10	2
29. Radiolaria							0	0
Total		315		362		0	1039	228

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-096

1. Sample No.	2303024	11. Wire run out(m)	
2. JARE	23	12. Wire angle(')	
3. Area	Syowa Station	13. Depth of haul(m) *	45
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	2510
6. Sea depth(m)	50	16. Volume of water filtered(m ³)	4
7. Date & time(LMT) Mar. 1 '82, 23:47-23:50		calculated by	Flow-meter
(GMT)		17. Wet weight(mg) per m ³	
8. Net used	Modified NIPR-I(100μm)	18. Settling volume(cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	10
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta							0	0
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	3					3	1
Cyclopoida Copepoda	I-9-2	16					16	4
Harpacticoida Copepoda	I-9-3	1					1	+
10. Copepoda, nauplius							0	0
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	10					10	3
22. Thaliacea							0	0
23. Egg	I-23	9					9	2
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	1					1	+
29. Radiolaria							0	0
Total		41		0		0	41	10

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-097

1. Sample No. <u>2303025</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT)	16. Volume of water filtered (m ³)
(GMT)	calculated by
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul	18. Settling volume (cc) per m ³
10. Duration of haul	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	18					18	7
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	6					6	2
Cyclopoida Copepoda			II-9-2	247			2470	996
Harpacticoida Copepoda	I-9-3	65					65	26
10. Copepoda, nauplius			II-10	319			3190	1286
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	23					23	9
22. Thaliacea							0	0
23. Egg							0	0
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	6					6	2
28. Unidentified forms	I-28	10					10	4
29. Radiolaria							0	0
Total		131		566		0	5791	2335

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-098

1. Sample No.	2303026	11. Wire run out(m)	
2. JARE	23	12. Wire angle(')	
3. Area	Syowa Station	13. Depth of haul(m) *	1
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S 39° 37' 16" E	14. Flow-meter used	GO 2030
6. Sea depth(m)	50	15. Flow-meter reading	2710
7. Date & time(LMT) Mar. 2 '82, 05:23-05:26		16. Volume of water filtered(m ³)	4.31
(GMT)		calculated by	Flow-meter
8. Net used	Modified NIPR-1(100 μm)	17. Wet weight(mg) per m ³	
9. Method of haul ..	Layered	18. Settling volume(cc) per m ³ ..	
10. Duration of haul	3 min	19. Total number per m ³	2683

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	26					26	6
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	11					11	3
Cyclopoida Copepoda			II-9-2	641			641	1487
Harpacticoida Copepoda	I-9-3	73					73	17
10. Copepoda, nauplius			II-10	497			497	1153
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	52					52	12
22. Thaliacea							0	0
23. Egg	I-23	1					1	+
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	7					7	2
28. Unidentified forms	I-28	10					10	2
29. Radiolaria							0	0
Total		182		1138			0	11562 2683

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-099

1. Sample No. 2303027
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) Mar. 2 '82, 05:28-05:31
 (GMT)
 8. Net used Modified NIPR-I (100 μm)
 9. Method of haul .. Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 2
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 2852
 16. Volume of water filtered (m³) 4.54
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 2539

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora	I-2	1					1	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	195					195	43
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	11					11	2
Cyclopoida Copepoda			II-9-2	635			6350	1399
Harpacticoida Copepoda	I-9-3	46					46	10
10. Copepoda, nauplius			II-10	466			4660	1026
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	4					4	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	109					109	24
22. Thaliacea							0	0
23. Egg	I-23	105					105	23
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	25					25	6
28. Unidentified forms	I-28	20					20	4
29. Radiolaria							0	0
Total		517		1101		0	11527	2539

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-100

1. Sample No. <u>2303028</u>	11. Wire run out(m)
2. JARE	12. Wire angle(')
3. Area	13. Depth of haul(m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth(m)	15. Flow-meter reading
7. Date & time(LMT) <u>Mar. 2 '82, 05:34-05:37</u>	16. Volume of water filtered(m ³) <u>4.18</u>
(GMT)	calculated by <u>Flow-meter</u>
8. Net used	17. Wet weight(mg) per m ³
9. Method of haul ..	18. Settling volume(cc) per m ³ ..
10. Duration of haul <u>3 min</u>	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	53					53	13
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	6					6	1
Cyclopoida Copepoda			II-9-2	426			852	204
Harpacticoida Copepoda	I-9-3	6					6	1
10. Copepoda, nauplius			II-10	66			132	32
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	70					70	17
22. Thaliacea							0	0
23. Egg	I-23	45					45	11
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	8					8	2
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		190		492		0	1174	281

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-101

1. Sample No. 2303029 11. Wire run out(m).....
 2. JARE..... 23 12. Wire angle(').....
 3. Area..... Syowa Station 13. Depth of haul(m)※..... 10
 4. Station No. 3 estimated by
 5. Position..... 68° 59' 57" S 14. Flow-meter used..... GO 2030
39° 37' 16" E 15. Flow-meter reading..... 2966
 6. Sea depth(m).... 50 16. Volume of water filtered(m³) 4.72
 7. Date & time(LMT) Mar. 2 '82, 05:41-05:44 calculated by Flow-meter
 (GMT) 17. Wet weight(mg) per m³.....
 8. Net used..... Modified NIPR-I(100 μm) 18. Settling volume(cc) per m³..
 9. Method of haul.. Layered 19. Total number per m³..... 407
 10. Duration of haul 3 min

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	146					146	31
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	20					20	4
Cyclopoida Copepoda			II-9-2	225			1125	238
Harpacticoida Copepoda	I-9-3	2					2	+
10. Copepoda, nauplius			II-10	58			290	61
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	6					6	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	206					206	44
22. Thaliacea							0	0
23. Egg	I-23	110					110	23
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	12					12	3
28. Unidentified forms	I-28	4					4	1
29. Radiolaria							0	0
Total		506		283		0	1921	407

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-102

1. Sample No. 2303030 11. Wire run out(m).....
 2. JARE..... 23 12. Wire angle(').....
 3. Area..... Syowa Station 13. Depth of haul(m)※..... 20
 4. Station No. 3 estimated by
 5. Position..... 88° 59' 57" S 14. Flow-meter used..... G0 2030
39° 37' 16" E 15. Flow-meter reading..... 2902
 6. Sea depth(m).... 50 16. Volume of water filtered(m³) 4.62
 7. Date & time(LMT) Mar. 2 '82, 05:48-05:51 calculated by Flow-meter
 (GMT) 17. Wet weight(mg) per m³.....
 8. Net used..... Modified NIPR-I(100 μm) 18. Settling volume(cc) per m³..
 9. Method of haul.. Layered 19. Total number per m³..... 359
 10. Duration of haul 3 min

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora	I-2	1					1	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	58					58	13
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	68					68	15
Cyclopoida Copepoda			II-9-2	600			1200	260
Harpacticoida Copepoda	I-9-3	6					6	1
10. Copepoda, nauplius			II-10	52			104	23
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	88					88	19
22. Thaliacea							0	0
23. Egg	I-23	110					110	24
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	7					7	2
28. Unidentified forms	I-28	10					10	2
29. Radiolaria							0	0
Total		349		652		0	1653	359

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-103

1. Sample No.	2303031	11. Wire run out (m)	_____
2. JARE	23	12. Wire angle (°)	_____
3. Area	Syowa Station	13. Depth of haul (m) *	30
4. Station No.	3	estimated by	_____
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	2920
6. Sea depth (m)	50	16. Volume of water filtered (m ³)	4.64
7. Date & time (LMT) Mar. 2 '82, 05:55-05:58		calculated by	Flow-meter
(GMT)		17. Wet weight (mg) per m ³	_____
8. Net used	Modified NIPR-I (100 μm)	18. Settling volume (cc) per m ³ ..	_____
9. Method of haul ..	Layered	19. Total number per m ³	148
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	21					21	5
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	50					50	11
Cyclopoida Copepoda	I-9-2	452					452	97
Harpacticoida Copepoda	I-9-3	1					1	+
10. Copepoda, nauplius	I-10	36					36	8
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	22					22	5
22. Thaliacea							0	0
23. Egg	I-23	95					95	20
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	4					4	1
28. Unidentified forms	I-28	3					3	1
29. Radiolaria							0	0
Total		685		0		0	685	148

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-104

1. Sample No. 2303032	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No. 3	45
5. Position	estimated by
68° 59' 57" S	14. Flow-meter used
39° 37' 16" E	GO 2030
6. Sea depth (m) 50	15. Flow-meter reading
7. Date & time (LMT) Mar. 2 '82, 06:03-06:06	2391
(GMT)	16. Volume of water filtered (m ³)
8. Net used	4.5
Modified NIPR-I (100 μm)	17. Wet weight (mg) per m ³
9. Method of haul .. Layered	calculated by Assumption
10. Duration of haul 3 min	18. Settling volume (cc) per m ³ ..
	19. Total number per m ³
	153

Proportion of Sample sorted	Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	35					35	8
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	54					54	12
Cyclopoida Copepoda	I-9-2	482					482	107
Harpacticoida Copepoda							0	0
10. Copepoda, nauplius	I-10	34					34	8
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	18					18	4
22. Thaliacea							0	0
23. Egg	I-23	60					60	13
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	2					2	+
28. Unidentified forms	I-28	4					4	1
29. Radiolaria							0	0
Total		689		0		0	689	153

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-105

1. Sample No.	<u>2303033</u>	11. Wire run out (m)	_____
2. JARE	<u>23</u>	12. Wire angle (°)	_____
3. Area	<u>Syowa Station</u>	13. Depth of haul (m) *	<u>0</u>
4. Station No.	<u>3</u>	estimated by	_____
5. Position	<u>68° 59' 57" S</u> <u>39° 37' 16" E</u>	14. Flow-meter used	<u>G0 2030</u>
6. Sea depth (m)	<u>50</u>	15. Flow-meter reading	<u>2837</u>
7. Date & time (LMT)	<u>Mar. 2 '82, 11:06-11:09</u>	16. Volume of water filtered (m ³)	<u>4.51</u>
(GMT)		calculated by	<u>Flow-meter</u>
8. Net used	<u>Modified NIPR-I (100 μm)</u>	17. Wet weight (mg) per m ³	_____
9. Method of haul	<u>Layered</u>	18. Settling volume (cc) per m ³	_____
10. Duration of haul	<u>3 min</u>	19. Total number per m ³	<u>724</u>

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	24					24	5
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	6					6	1
Cyclopoida Copepoda			II-9-2	217			1085	241
Harpacticoida Copepoda	I-9-3	72					72	16
10. Copepoda, nauplius			II-10	413			2065	458
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg							0	0
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	10					10	2
29. Radiolaria							0	0
Total		113		630		0	3263	724

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-106

1. Sample No. 2303034	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No. 3	estimated by
5. Position	14. Flow-meter used
68° 59' 57" S	15. Flow-meter reading
39° 37' 16" E	16. Volume of water filtered (m ³)
6. Sea depth (m) 50	17. Wet weight (mg) per m ³
7. Date & time (LMT) Mar. 2 '82, 11:11-11:14	18. Settling volume (cc) per m ³
(GMT)	19. Total number per m ³
8. Net used	
9. Method of haul .. Layered	
10. Duration of haul 3 min	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	18					18	4
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	3					3	1
Cyclopoida Copepoda			II-9-2	239			2390	557
Harpacticoida Copepoda	I-9-3	50					50	12
10. Copepoda, nauplius			II-10	248			2480	578
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	5					5	1
22. Thaliacea							0	0
23. Egg							0	0
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	6					6	1
29. Radiolaria							0	0
Total		82		487			0	4952
								1154

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-107

1. Sample No. <u>2303035</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT) <u>Mar. 2 '82, 11:16-11:19</u>	16. Volume of water filtered (m ³)
(GMT)	calculated by <u>Flow-meter</u>
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul ..	18. Settling volume (cc) per m ³ ..
10. Duration of haul <u>3 min</u>	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	140					140	33
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	6					6	1
Cyclopoida Copepoda			II-9-2	675			6750	1611
Harpacticoida Copepoda	I-9-3	117					117	28
10. Copepoda, nauplius			II-10	416			4160	993
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	33					33	8
22. Thaliacea							0	0
23. Egg	I-23	108					108	26
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	11					11	3
28. Unidentified forms	I-28	26					26	6
29. Radiolaria							0	0
Total		442		1091		0	11352	2709

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-108

1. Sample No. <u>2303036</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
	15. Flow-meter reading
6. Sea depth (m)	16. Volume of water filtered (m ³)
7. Date & time (LMT)	calculated by
(GMT)	17. Wet weight (mg) per m ³
8. Net used	18. Settling volume (cc) per m ³
9. Method of haul	19. Total number per m ³
10. Duration of haul	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	254					254	53
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	22					22	5
Cyclopoida Copepoda			II-9-2	244			2440	506
Harpacticoida Copepoda	I-9-3	40					40	8
10. Copepoda, nauplius			II-10	72			720	149
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	5					5	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	168					168	35
22. Thaliacea							0	0
23. Egg	I-23	90					90	19
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	23					23	5
28. Unidentified forms	I-28	16					16	3
29. Radiolaria							0	0
Total		618		316		0	3778	784

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-109

1. Sample No. <u>2303037</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT)	16. Volume of water filtered (m ³)
(GMT)	calculated by
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul	18. Settling volume (cc) per m ³
10. Duration of haul	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	3					3	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	199					199	42
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	17					17	4
Cyclopoida Copepoda			II-9-2	215			2150	449
Harpacticoida Copepoda	I-9-3	23					23	5
10. Copepoda, nauplius			II-10	52			520	109
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	13					13	3
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	80					80	17
22. Thaliacea							0	0
23. Egg	I-23	75					75	16
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	20					20	4
28. Unidentified forms	I-28	11					11	2
29. Radiolaria							0	0
Total		441		267		0	3111	652

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-110

1. Sample No. 2303038
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth(m) 50
 7. Date & time(LMT) Mar. 2 '82, 11:32-11:35
 (GMT)
 8. Net used Modified NIPR-I(100 μm)
 9. Method of haul .. Layered
 10. Duration of haul 3 min
 11. Wire run out(m)
 12. Wire angle(')
 13. Depth of haul(m) * 20
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 2798
 16. Volume of water filtered(m³) 4.45
 calculated by Flow-meter
 17. Wet weight(mg) per m³
 18. Settling volume(cc) per m³ ..
 19. Total number per m³ 478

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	46					46	10
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	64					64	14
Cyclopoida Copepoda			II-9-2	300			1500	337
Harpacticoida Copepoda	I-9-3	3					3	1
10. Copepoda, nauplius			II-10	68			340	76
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	4					4	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	41					41	9
22. Thaliacea							0	0
23. Egg	I-23	106					106	24
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	4					4	1
28. Unidentified forms	I-28	24					24	5
29. Radiolaria							0	0
Total		292		368		0	2132	478

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-111

1. Sample No. 2303039	11. Wire run out(m)
2. JARE	12. Wire angle(')
3. Area	13. Depth of haul(m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth(m)	15. Flow-meter reading
7. Date & time(LMT)	16. Volume of water filtered(m ³)
(GMT)	calculated by
8. Net used	17. Wet weight(mg) per m ³
9. Method of haul	18. Settling volume(cc) per m ³
10. Duration of haul	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	2					2	+
2. Siphonophora							0	0
3. Other medusae	I-3	2					2	+
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	19					19	4
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	72					72	17
Cyclopoida Copepoda	I-9-2	785					785	184
Harpacticoida Copepoda	I-9-3	6					6	1
10. Copepoda, nauplius	I-10	32					32	7
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	13					13	3
22. Thaliacea							0	0
23. Egg	I-23	197					197	46
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	6					6	1
28. Unidentified forms	I-28	12					12	3
29. Radiolaria							0	0
Total		1146		0		0	1146	268

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-112

1. Sample No.	2303040	11. Wire run out(m)	
2. JARE	23	12. Wire angle(')	
3. Area	Syowa Station	13. Depth of haul(m) *	45
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	2738
6. Sea depth(m)	50	16. Volume of water filtered(m ³)	4.36
7. Date & time(LMT) Mar. 2 '82, 11:50-11:53		calculated by	Flow-meter
(GMT)		17. Wet weight(mg) per m ³	
8. Net used	Modified NIPR-I (100 μm)	18. Settling volume(cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	58
10. Duration of haul	3 min		

Proportion of Sample sorted	Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora	I-2	1					1	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	6					6	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	29					29	7
Cyclopoida Copepoda	I-9-2	136					136	31
Harpacticoida Copepoda	I-9-3	9					9	2
10. Copepoda, nauplius	I-10	29					29	7
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	32					32	7
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	4					4	1
28. Unidentified forms	I-28	5					5	1
29. Radiolaria							0	0
Total		253		0		0	253	58

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-113

1. Sample No. 2303041
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) Mar. 31 '82, 12:35-12:38
 (GMT)
 8. Net used Modified NIPR-I (100 μm)
 9. Method of haul .. Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 0
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 2259
 16. Volume of water filtered (m³) 4.53
 17. Wet weight (mg) per m³
 calculated by Assumption
 18. Settling volume (cc) per m³
 19. Total number per m³ 132

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta							0	0
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	2					2	+
Cyclopoida Copepoda	I-9-2	220					220	49
Harpacticoida Copepoda	I-9-3	95					95	21
10. Copepoda, nauplius	I-10	276					276	61
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	3					3	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		598		0		0	598	132

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-114

1. Sample No. 2303042	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT) Mar. 31 '82, 12:40-12:43	16. Volume of water filtered (m ³) 5.13
(GMT)	calculated by Flow-meter
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul ..	18. Settling volume (cc) per m ³ ..
10. Duration of haul 3 min	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	6					6	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	2					2	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	5					5	1
Cyclopoida Copepoda			II-9-2	313			626	122
Harpacticoida Copepoda	I-9-3	10					10	2
10. Copepoda, nauplius			II-10	439			878	171
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	9					9	2
22. Thaliacea							0	0
23. Egg	I-23	9					9	2
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	2					2	+
28. Unidentified forms	I-28	4					4	1
29. Radiolaria							0	0
Total		47		752		0	1551	302

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-115

1. Sample No. <u>2303043</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
	15. Flow-meter reading
6. Sea depth (m)	16. Volume of water filtered (m ³)
7. Date & time (LMT)	calculated by
(GMT)	17. Wet weight (mg) per m ³
8. Net used	18. Settling volume (cc) per m ³
9. Method of haul	19. Total number per m ³
10. Duration of haul	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	6					6	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	5					5	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	2					2	+
Cyclopoida Copepoda			II-9-2	328			656	142
Harpacticoida Copepoda	I-9-3	19					19	4
10. Copepoda, nauplius			II-10	526			1052	228
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	14					14	3
22. Thaliacea							0	0
23. Egg	I-23	29					29	6
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	5					5	1
29. Radiolaria							0	0
Total		82		854		0	1790	387

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-116

1. Sample No. <u>2303044</u>	11. Wire run out (m) _____
2. JARE <u>23</u>	12. Wire angle (°) _____
3. Area <u>Syowa Station</u>	13. Depth of haul (m) * <u>5</u>
4. Station No. <u>3</u>	estimated by _____
5. Position <u>68° 59' 57" S</u>	14. Flow-meter used <u>GO 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading <u>3008</u>
6. Sea depth (m) <u>50</u>	16. Volume of water filtered (m ³) <u>4.78</u>
7. Date & time (LMT) <u>Mar. 31 '82, 12:50-12:53</u>	calculated by <u>Flow-meter</u>
(GMT) _____	17. Wet weight (mg) per m ³ _____
8. Net used <u>Modified NIPR-I (100 μm)</u>	18. Settling volume (cc) per m ³ .. _____
9. Method of haul .. <u>Layered</u>	19. Total number per m ³ <u>256</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	3					3	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	7					7	1
Cyclopoida Copepoda			II-9-2	244			488	102
Harpacticoida Copepoda	I-9-3	7					7	1
10. Copepoda, nauplius			II-10	352			704	147
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	6					6	1
22. Thaliacea							0	0
23. Egg	I-23	4					4	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	3					3	1
29. Radiolaria							0	0
Total		32		596		0	1224	256

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-117

1. Sample No. <u>2303045</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
	15. Flow-meter reading
6. Sea depth (m)	16. Volume of water filtered (m ³)
7. Date & time (LMT) <u>Mar. 31 '82, 12:55-12:58</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight (mg) per m ³
8. Net used	18. Settling volume (cc) per m ³
9. Method of haul	19. Total number per m ³
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	1					1	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda							0	0
Cyclopoida Copepoda	I-9-2	611					611	130
Harpacticoida Copepoda	I-9-3	5					5	1
10. Copepoda, nauplius	I-10	762					762	162
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	21					21	4
22. Thaliacea							0	0
23. Egg	I-23	2					2	+
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	7					7	1
29. Radiolaria							0	0
Total		1410		0		0	1410	300

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-118

1. Sample No. <u>2303046</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)※..... <u>20</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>G0 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>2526</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>4.02</u>
7. Date & time(LMT) <u>Mar. 31 '82, 13:00-13:03</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-I(100 μm)</u>	18. Settling volume(cc) per m ³ ..
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>114</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	I/I Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta							0	0
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	3					3	1
Cyclopoida Copepoda	I-9-2	195					195	49
Harpacticoida Copepoda	I-9-3	4					4	1
10. Copepoda, nauplius	I-10	249					249	62
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	4					4	1
22. Thaliacea							0	0
23. Egg	I-23	1					1	+
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		457		0		0	457	114

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-119

1. Sample No. 2303047
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) Mar. 31 '82, 13:05-13:08
 (GMT)
 8. Net used Modified NIPR-1 (100 μm)
 9. Method of haul .. Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 30
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 2827
 16. Volume of water filtered (m³) 4.5
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³ ..
 19. Total number per m³ 239

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	4					4	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	10					10	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	4					4	1
Cyclopoida Copepoda	I-9-2	509					509	113
Harpacticoida Copepoda	I-9-3	8					8	2
10. Copepoda, nauplius	I-10	525					525	117
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	10					10	2
22. Thaliacea							0	0
23. Egg							0	0
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	5					5	1
29. Radiolaria							0	0
Total		1075		0		0	1075	239

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-120

1. Sample No.	2303048	11. Wire run out(m)	
2. JARE	23	12. Wire angle(')	
3. Area	Syowa Station	13. Depth of haul(m) *	45
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	2502
6. Sea depth(m)	50	16. Volume of water filtered(m ³)	3.99
7. Date & time(LMT) Mar. 31 '82, 13:12-13:15		calculated by Flow-meter	
(GMT)		17. Wet weight(mg) per m ³	
8. Net used	Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	72
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora	I-2	1					1	+
3. Other medusae	I-3	1					1	+
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	1					1	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	5					5	1
Cyclopoida Copepoda	I-9-2	141					141	35
Harpacticoida Copepoda	I-9-3	11					11	3
10. Copepoda, nauplius	I-10	105					105	26
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	11					11	3
22. Thaliacea							0	0
23. Egg	I-23	5					5	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	5					5	1
29. Radiolaria							0	0
Total		286		0		0	286	72

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-121

1. Sample No. 2303049	11. Wire run out(m).....
2. JARE..... 23	12. Wire angle(').....
3. Area..... Syowa Station	13. Depth of haul(m)※..... 0
4. Station No. 3	estimated by
5. Position..... 68° 59' 57" S	14. Flow-meter used..... GO 2030
39° 37' 16" E	15. Flow-meter reading..... 666
6. Sea depth(m).... 50	16. Volume of water filtered(m ³) 4.4
7. Date & time(LMT) Mar. 31 '82, 17:10-17:13	calculated by Assumption
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³ ..
9. Method of haul.. Layered	19. Total number per m ³ 48
10. Duration of haul 3 min	

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta							0	0
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	3					3	1
Cyclopoida Copepoda	I-9-2	71					71	16
Harpacticoida Copepoda	I-9-3	19					19	4
10. Copepoda, nauplius	I-10	119					119	27
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg							0	0
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		212		0		0	212	48

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-122

1. Sample No. <u>2303050</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT)	16. Volume of water filtered (m ³)
(GMT)	calculated by
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul	18. Settling volume (cc) per m ³
10. Duration of haul	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	7					7	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	4					4	1
Cyclopoida Copepoda			II-9-2	325			650	140
Harpacticoida Copepoda	I-9-3	38					38	8
10. Copepoda, nauplius			II-10	655			1310	282
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	3					3	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	6					6	1
22. Thaliacea							0	0
23. Egg	I-23	4					4	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	2					2	+
28. Unidentified forms	I-28	3					3	1
29. Radiolaria							0	0
Total		67		980		0	2027	437

+ : less than 1 indiv./m³
 * Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-123

1. Sample No.	2303051	11. Wire run out(m)	
2. JARE	23	12. Wire angle(')	
3. Area	Syowa Station	13. Depth of haul(m) *	2
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	2633
6. Sea depth(m)	50	16. Volume of water filtered(m ³)	4.19
7. Date & time(LMT)	Mar. 31 '82, 17:20-17:23	calculated by	Flow-meter
(GMT)		17. Wet weight(mg) per m ³	
8. Net used	Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	255
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	4					4	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	2					2	+
Cyclopoida Copepoda			II-9-2	222			444	106
Harpacticoida Copepoda	I-9-3	11					11	3
10. Copepoda, nauplius			II-10	298			596	142
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	6					6	1
22. Thaliacea							0	0
23. Egg							0	0
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	4					4	1
29. Radiolaria							0	0
Total		29		520		0	1069	255

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-124

1. Sample No.	2303052	11. Wire run out (m)	
2. JARE	23	12. Wire angle (°)	
3. Area	Syowa Station	13. Depth of haul (m) *	5
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	2972
6. Sea depth (m)	50	16. Volume of water filtered (m ³)	4.72
7. Date & time (LMT) Mar. 31 '82, 17:26-17:29		calculated by	Flow-meter
(GMT)		17. Wet weight (mg) per m ³	
8. Net used	Modified NIPR-I (100 μm)	18. Settling volume (cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	403
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	3					3	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	10					10	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	7					7	1
Cyclopoida Copepoda	I-9-2	702					702	149
Harpacticoida Copepoda	I-9-3	14					14	3
10. Copepoda, nauplius	I-10	1151					1151	244
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	5					5	1
22. Thaliacea							0	0
23. Egg	I-23	6					6	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	2					2	+
29. Radiolaria							0	0
Total		1902		0		0	1902	403

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-125

1. Sample No.	2303053	11. Wire run out(m)	
2. JARE	23	12. Wire angle(')	
3. Area	Syowa Station	13. Depth of haul(m) *	10
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	2595
6. Sea depth(m)	50	16. Volume of water filtered(m ³)	4.13
7. Date & time(LMT)	Mar. 31 '82, 17:32-17:35	calculated by Flow-meter	
	(GMT)	17. Wet weight(mg) per m ³	
8. Net used	Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³	
9. Method of haul ..	Layered	19. Total number per m ³	88
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	11					11	3
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	2					2	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	3					3	1
Cyclopoida Copepoda	I-9-2	165					165	40
Harpacticoida Copepoda	I-9-3	1					1	+
10. Copepoda, nauplius	I-10	170					170	41
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	5					5	1
22. Thaliacea							0	0
23. Egg	I-23	2					2	+
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	4					4	1
29. Radiolaria							0	0
Total		363		0		0	363	88

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-126

1. Sample No. <u>2303054</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT) <u>Mar. 31 '82, 17:38-17:41</u>	16. Volume of water filtered (m ³)
(GMT)	calculated by <u>Flow-meter</u>
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul	18. Settling volume (cc) per m ³
10. Duration of haul <u>3 min</u>	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	5					5	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	13					13	3
Cyclopoida Copepoda	I-9-2	595					595	146
Harpacticoida Copepoda	I-9-3	11					11	3
10. Copepoda, nauplius	I-10	371					371	91
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	14					14	3
22. Thaliacea							0	0
23. Egg							C	0
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	7					7	2
29. Radiolaria							0	0
Total		1018		0		0	1018	250

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-127

1. Sample No. 2303055	11. Wire run out(m).....
2. JARE..... 23	12. Wire angle(').....
3. Area..... Syowa Station	13. Depth of haul(m)※..... 30
4. Station No. 3	estimated by
5. Position..... 68° 59' 57" S	14. Flow-meter used..... GO 2030
39° 37' 16" E	15. Flow-meter reading..... 2821
6. Sea depth(m).... 50	16. Volume of water filtered(m ³) 4.49
7. Date & time(LMT) Mar. 31 '82, 17:44-17:47	calculated by Flow-meter
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³ ..
9. Method of haul.. Layered	19. Total number per m ³ 139
10. Duration of haul 3 min	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	4					4	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	2					2	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	3					3	1
Cyclopoida Copepoda			II-9-2	172			344	77
Harpacticoida Copepoda	I-9-3	1					1	+
10. Copepoda, nauplius			II-10	128			256	57
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	9					9	2
22. Thaliacea							0	0
23. Egg	I-23	1					1	+
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	1					1	+
29. Radiolaria							0	0
Total		23		300		0	623	139

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-128

1. Sample No. <u>2303056</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)※..... <u>45</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>G0 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>2881</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>4.58</u>
7. Date & time(LMT) <u>Mar. 31 '82, 17:51-17:54</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-I(100 μm)</u>	18. Settling volume(cc) per m ³ ..
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>202</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	6					6	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	5					5	1
Cyclopoida Copepoda	I-9-2	420					420	92
Harpacticoida Copepoda	I-9-3	5					5	1
10. Copepoda, nauplius	I-10	480					480	105
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	4					4	1
22. Thaliacea							0	0
23. Egg	I-23	3					3	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		923		0		0	923	202

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-129

1. Sample No. <u>2303057</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT)	16. Volume of water filtered (m ³)
(GMT)	calculated by
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul	18. Settling volume (cc) per m ³
10. Duration of haul	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	5					5	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	7					7	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	131					131	30
Cyclopoida Copepoda	I-9-2	73	II-9-2	871			8783	2043
Harpacticoida Copepoda	I-9-3	190					190	44
10. Copepoda, nauplius			II-10	1419			14190	3300
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	7					7	2
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	375					375	87
22. Thaliacea							0	0
23. Egg	I-23	8					8	2
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	12					12	3
29. Radiolaria							0	0
Total		809		2290		0	23709	5514

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-130

1. Sample No. 2303058	11. Wire run out(m).....
2. JARE..... 23	12. Wire angle(').....
3. Area..... Syowa Station	13. Depth of haul(m)*..... 1
4. Station No. 3	estimated by
5. Position..... 68° 59' 57" S	14. Flow-meter used..... GO 2030
39° 37' 16" E	15. Flow-meter reading..... 2323
6. Sea depth(m).... 50	16. Volume of water filtered(m ³) 4.3
7. Date & time(LMT) Apr. 22 '82, 09:23-09:26	calculated by Assumption
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³
9. Method of haul.. Layered	19. Total number per m ³ 5750
10. Duration of haul 3 min	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	4					4	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	5					5	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	67					67	16
Cyclopoida Copepoda			II-9-2	672			6720	1563
Harpacticoida Copepoda	I-9-3	19					19	4
10. Copepoda, nauplius			II-10	1773			17730	4123
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	5					5	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	163					163	38
22. Thaliacea							0	0
23. Egg	I-23	9					9	2
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	5					5	1
29. Radiolaria							0	0
Total		277		2445		0	24727	5750

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-131

1. Sample No. <u>2303059</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)*..... <u>2</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>G0 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>2479</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>3.95</u>
7. Date & time(LMT) <u>Apr. 22 '82, 09:28-09:31</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-I(100 μm)</u>	18. Settling volume(cc) per m ³ ..
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>3281</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	3					3	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	5					5	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	41					41	10
Cyclopoida Copepoda			II-9-2	538			5380	1362
Harpacticoida Copepoda	I-9-3	22					22	6
10. Copepoda, nauplius			II-10	733			7330	1856
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	3					3	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	154					154	39
22. Thaliacea							0	0
23. Egg	I-23	15					15	4
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	2					2	1
29. Radiolaria							0	0
Total		245		1271		0	12955	3281

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-132

1. Sample No. 2303060
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) Apr. 22 '82, 09:34-09:37
 (GMT)
 8. Net used Modified NIPR-I (100 μm)
 9. Method of haul Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 5
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 2833
 16. Volume of water filtered (m³) 4.51
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 1607

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	14					14	3
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	2					2	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	43					43	10
Cyclopoida Copepoda			II-9-2	297			2970	659
Harpacticoida Copepoda	I-9-3	18					18	4
10. Copepoda, nauplius			II-10	413			4130	916
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	4					4	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	51					51	11
22. Thaliacea							0	0
23. Egg	I-23	11					11	2
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	2					2	+
28. Unidentified forms	I-28	1					1	+
29. Radiolaria							0	0
Total		146		710		0	7246	1607

+ : less than 1 indiv./m³

* Depth from m beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-133

1. Sample No. <u>2303061</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT) Apr. 22 '82, 09:40-09:43	16. Volume of water filtered (m ³)
(GMT)	calculated by <u>Flow-meter</u>
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul ..	18. Settling volume (cc) per m ³ ..
10. Duration of haul <u>3 min</u>	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	3					3	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta							0	0
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	31					31	7
Cyclopoida Copepoda			II-9-2	266			1330	313
Harpacticoida Copepoda	I-9-3	13					13	3
10. Copepoda, nauplius			II-10	183			915	215
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	15					15	4
22. Thaliacea							0	0
23. Egg	I-23	23					23	5
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	1					1	+
29. Radiolaria							0	0
Total		86		449		0	2331	548

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-134

1. Sample No. <u>2303062</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT)	16. Volume of water filtered (m ³)
(GMT)	calculated by
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul ..	18. Settling volume (cc) per m ³ ..
10. Duration of haul <u>3 min</u>	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	10					10	2
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	3					3	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	29					29	6
Cyclopoida Copepoda			II-9-2	190			950	210
Harpacticoida Copepoda	I-9-3	14					14	3
10. Copepoda, nauplius			II-10	172			860	190
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	81					81	18
22. Thaliacea							0	0
23. Egg	I-23	18					18	4
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		155		362		0	1965	434

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-135

1. Sample No. <u>2303063</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)※..... <u>30</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>G0 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>2479</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>3.95</u>
7. Date & time(LMT) <u>Apr. 22 '82, 09:53-09:56</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-I(100 μm)</u>	18. Settling volume(cc) per m ³ ..
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>404</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	13					13	3
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta							0	0
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	44					44	11
Cyclopoida Copepoda			II-9-2	174			870	220
Harpacticoida Copepoda	I-9-3	7					7	2
10. Copepoda, nauplius			II-10	124			620	157
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	24					24	6
22. Thaliacea							0	0
23. Egg	I-23	16					16	4
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	2					2	1
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		108		298		0	1598	404

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-136

1. Sample No. 2303064 11. Wire run out(m)..... _____
 2. JARE..... 23 12. Wire angle(')..... _____
 3. Area..... Syowa Station 13. Depth of haul(m)*..... 45
 4. Station No. 3 estimated by _____
 5. Position..... 68° 59' 57" S 14. Flow-meter used..... GO 2030
39° 37' 16" E 15. Flow-meter reading..... 2918
 6. Sea depth(m).... 50 16. Volume of water filtered(m³) 4.64
 7. Date & time(LMT) Apr. 22 '82, 10:00-10:03 calculated by Flow-meter
 (GMT) 17. Wet weight(mg) per m³..... _____
 8. Net used..... Modified NIPR-I(100 μm) 18. Settling volume(cc) per m³.. _____
 9. Method of haul.. Layered 19. Total number per m³..... 174
 10. Duration of haul 3 min

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	4					4	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta							0	0
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	34					34	7
Cyclopoida Copepoda			II-9-2	244			488	105
Harpacticoida Copepoda	I-9-3	9					9	2
10. Copepoda, nauplius			II-10	119			238	51
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	25					25	5
22. Thaliacea							0	0
23. Egg	I-23	13					13	3
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		85		363		0	811	174

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-137

1. Sample No. <u>2303065</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)※..... <u>0</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>G0 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>1001</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>4.49</u>
7. Date & time(LMT) <u>May 11 '82, 09:15-09:18</u>	calculated by <u>Assumption</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-I(100μm)</u>	18. Settling volume(cc) per m ³
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>639</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	8					8	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	361					361	80
Cyclopoida Copepoda			II-9-2	396			1980	441
Harpacticoida Copepoda	I-9-3	124					124	28
10. Copepoda, nauplius			II-10	72			360	80
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda	I-13	1					1	+
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	5					5	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	26					26	6
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	3					3	1
29. Radiolaria							0	0
Total		529		468		0	2869	639

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-138

1. Sample No. 2303066	11. Wire run out(m).....
2. JARE..... 23	12. Wire angle(').....
3. Area..... Syowa Station	13. Depth of haul(m)※..... 1
4. Station No. 3	estimated by
5. Position..... 68° 59' 57" S	14. Flow-meter used..... GO 2030
39° 37' 16" E	15. Flow-meter reading..... 2746
6. Sea depth(m).... 50	16. Volume of water filtered(m ³) 4.37
7. Date & time(LMT) May 11 '82, 09:20-09:23	calculated by Flow-meter
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³ ..
9. Method of haul.. Layered	19. Total number per m ³ 1265
10. Duration of haul 3 min	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	17					17	4
2. Siphonophora	I-2	1					1	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	4					4	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	161					161	37
Cyclopoida Copepoda			II-9-2	468			4680	1071
Harpacticoida Copepoda	I-9-3	2					2	+
10. Copepoda, nauplius			II-10	62			620	142
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	32					32	7
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	9					9	2
29. Radiolaria							0	0
Total		228		530		0	5528	1265

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-139

1. Sample No. 2303067
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) May 11 '82, 09:25-09:28
 (GMT)
 8. Net used Modified NIPR-I (100 μm)
 9. Method of haul Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 2
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 13
 16. Volume of water filtered (m³) 4.49
 calculated by Assumption
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 1274

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	2					2	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	4					4	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	149					149	33
Cyclopoida Copepoda			II-9-2	467			4670	1040
Harpacticoida Copepoda	I-9-3	13					13	3
10. Copepoda, nauplius			II-10	85			850	189
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	2					2	+
22. Thaliacea							0	0
23. Egg	I-23	31					31	7
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		201		552		0	5721	1274

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-140

1. Sample No.	<u>2303068</u>	11. Wire run out(■).....	_____
2. JARE.....	<u>23</u>	12. Wire angle(').....	_____
3. Area.....	<u>Syowa Station</u>	13. Depth of haul(■)*.....	<u>5</u>
4. Station No.	<u>3</u>		
5. Position.....	<u>68° 59' 57" S</u>		
	<u>39° 37' 16" E</u>	14. Flow-meter used.....	<u>GO 2030</u>
6. Sea depth(■)....	<u>50</u>	15. Flow-meter reading.....	<u>3013</u>
7. Date & time(LMT)	<u>May 11 '82, 09:32-09:35</u>	16. Volume of water filtered(■3)	<u>4.79</u>
	<u>(GMT)</u>		
8. Net used.....	<u>Modified NIPR-I(100μ■)</u>	17. Wet weight(mg) per ■3.....	_____
9. Method of haul..	<u>Layered</u>	18. Settling volume(cc) per ■3..	_____
10. Duration of haul	<u>3 min</u>	19. Total number per ■3.....	<u>1865</u>

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per ■3
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	4					4	1
2. Siphonophora	I-2	1					1	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	3					3	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	258					258	54
Cyclopoida Copepoda			II-9-2	711			7110	1484
Harpacticoida Copepoda	I-9-3	24					24	5
10. Copepoda, nauplius			II-10	148			1480	309
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	47					47	10
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	2					2	+
29. Radiolaria							0	0
Total		341		859		0	8931	1865

+ : less than 1 indiv./■3

* Depth from ■ beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-141

1. Sample No. 2303069
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) May 11 '82, 09:38-09:41
 (GMT)
 8. Net used Modified NIPR-I (100 μm)
 9. Method of haul Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 10
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3185
 16. Volume of water filtered (m³) 5.06
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 1630

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	7					7	1
2. Siphonophora	I-2	2					2	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	3					3	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	238					238	47
Cyclopoida Copepoda			II-9-2	652			6520	1289
Harpacticoida Copepoda	I-9-3	26					26	5
10. Copepoda, nauplius			II-10	137			1370	271
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	74					74	15
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	5					5	1
29. Radiolaria							0	0
Total		356		789		0	8246	1630

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-142

1. Sample No. 2303070
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 18" E
 6. Sea depth (m) 50
 7. Date & time (LMT) May 11 '82, 09:44-09:47
 (GMT)
 8. Net used Modified NIPR-I (100 μm)
 9. Method of haul Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 20
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 2785
 16. Volume of water filtered (m³) 4.43
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 542

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	3					3	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta							0	0
7. Cladocera							0	0
8. Ostracoda	I-8	1					1	+
9. Calanoida Copepoda	I-9-1	74					74	17
Cyclopoida Copepoda			II-9-2	383			1915	432
Harpacticoida Copepoda	I-9-3	7					7	2
10. Copepoda, nauplius			II-10	77			385	87
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	12					12	3
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	1					1	+
29. Radiolaria							0	0
Total		99		460		0	2399	542

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-143

1. Sample No.	2303071	11. Wire run out (m)	
2. JARE	23	12. Wire angle (°)	
3. Area	Syowa Station	13. Depth of haul (m) *	30
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	2532
6. Sea depth (m)	50	16. Volume of water filtered (m ³)	4.03
7. Date & time (LMT) May 11 '82, 09:51-09:54		calculated by	Flow-meter
(GMT)		17. Wet weight (mg) per m ³	
8. Net used	Modified NIPR-I (100 μm)	18. Settling volume (cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	387
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	4					4	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	1					1	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	58					58	14
Cyclopoida Copepoda			II-9-2	216			1080	268
Harpacticoida Copepoda	I-9-3	8					8	2
10. Copepoda, nauplius			II-10	77			385	96
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	23					23	6
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		95		293		0	1560	387

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-144

1. Sample No.	2303072	11. Wire run out(m)	
2. JARE	23	12. Wire angle(')	
3. Area	Syowa Station	13. Depth of haul(m) *	45
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	2875
6. Sea depth(m)	50	16. Volume of water filtered(m ³)	4.28
7. Date & time(LMT)	May 11 '82, 09:59-10:02	calculated by	Flow-meter
(GMT)		17. Wet weight(mg) per m ³	
8. Net used	Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	669
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1713					1713	402
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	1					1	+
6. Polychaeta	I-6	12					12	3
7. Cladocera							0	0
8. Ostracoda	I-8	34					34	8
9. Calanoida Copepoda	I-9-1	67					67	16
Cyclopoida Copepoda			II-9-2	249			498	117
Harpacticoida Copepoda	I-9-3	133					133	31
10. Copepoda, nauplius			II-10	60			120	28
11. Cumacea	I-11	1					1	+
12. Isopoda	I-12	4					4	1
13. Amphipoda	I-13	8					8	2
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	8					8	2
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	7					7	2
24. Euphausiacea, nauplius							0	0
25. Nematoda	I-25	8					8	2
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	20					20	5
28. Unidentified forms	I-28	214					214	50
29. Radiolaria							0	0
Total		2230		309		0	2848	669

+ : less than 1 indiv./m³

* Depth from m beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-145

1. Sample No. 2303073
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) May 25 '82, 09:23-09:26
 (GMT)
 8. Net used Modified NIPR-I (100 μm)
 9. Method of haul Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 0
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3112
 16. Volume of water filtered (m³) 4.94
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 1435

Proportion of Sample sorted	I/1 Sample [Sort I]		I/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	4					4	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	5					5	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	1418					1418	287
Cyclopoida Copepoda			II-9-2	386			3860	781
Harpacticoida Copepoda	I-9-3	121					121	24
10. Copepoda, nauplius			II-10	164			1640	332
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	38					38	8
22. Thaliacea							0	0
23. Egg	I-23	2					2	+
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		1588		550		0	7088	1435

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-146

1. Sample No. <u>2303074</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)※..... <u>1</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>GO 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>3168</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>5.03</u>
7. Date & time(LMT) <u>May 25 '82, 09:30-09:33</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-I(100 μm)</u>	18. Settling volume(cc) per m ³ ..
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>1233</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta							0	0
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	526					526	105
Cyclopoida Copepoda			II-9-2	391			3910	777
Harpacticoida Copepoda	I-9-3	44					44	9
10. Copepoda, nauplius			II-10	172			1720	342
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg							0	0
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		571		563		0	6201	1233

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-147

1. Sample No. <u>2303075</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT)	16. Volume of water filtered (m ³)
(GMT)	calculated by
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul	18. Settling volume (cc) per m ³
10. Duration of haul	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta							0	0
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	322					322	69
Cyclopoida Copepoda			II-9-2	696			6960	1497
Harpacticoida Copepoda	I-9-3	11					11	2
10. Copepoda, nauplius			II-10	112			1120	241
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg							0	0
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		333		808		0	8413	1809

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-148

1. Sample No.	2303076	11. Wire run out(m)	
2. JARE	23	12. Wire angle(')	
3. Area	Syowa Station	13. Depth of haul(m)※	5
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	2990
6. Sea depth(m)	50	16. Volume of water filtered(m ³)	4.75
7. Date & time(LMT) May 25 '82, 09:42-09:45		calculated by	Flow-meter
(GMT)		17. Wet weight(mg) per m ³	
8. Net used	Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	1830
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	1					1	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	220					220	46
Cyclopoida Copepoda			II-9-2	771			7710	1623
Harpacticoida Copepoda	I-9-3	7					7	1
10. Copepoda, nauplius			II-10	75			750	158
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	4					4	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		234		846		0	8894	1830

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-149

1. Sample No. 2303077
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) May 25 '82, 09:47-09:50
 (GMT)
 8. Net used Modified NIPR-I (100 μm)
 9. Method of haul .. Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 10
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3234
 16. Volume of water filtered (m³) 5.14
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 1496

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	1					1	+
7. Cladocera							0	0
8. Ostracoda	I-8	2					2	+
9. Calanoida Copepoda	I-9-1	145					145	28
Cyclopoida Copepoda			II-9-2	659			6590	1282
Harpacticoida Copepoda	I-9-3	6					6	1
10. Copepoda, nauplius			II-10	94			940	183
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	4					4	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	3					3	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		162		753		0	7692	1496

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-150

1. Sample No. 2303078	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT) May 25 '82, 09:54-09:57	16. Volume of water filtered (m ³)
(GMT)	calculated by
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul ..	18. Settling volume (cc) per m ³ ..
10. Duration of haul 3 min	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta							0	0
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	157					157	35
Cyclopoida Copepoda			II-9-2	534			5340	1181
Harpacticoida Copepoda	I-9-3	5					5	1
10. Copepoda, nauplius			II-10	67			670	148
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	2					2	+
22. Thaliacea							0	0
23. Egg	I-23	6					6	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		170		601		0	6180	1367

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-151

1. Sample No. 2303079	11. Wire run out(m).....
2. JARE..... 23	12. Wire angle(').....
3. Area..... Syowa Station	13. Depth of haul(m)※..... 30
4. Station No. 3	estimated by
5. Position..... 68° 59' 57" S	14. Flow-meter used..... GO 2030
39° 37' 16" E	15. Flow-meter reading..... 2680
6. Sea depth(m).... 50	16. Volume of water filtered(m ³) 4.27
7. Date & time(LMT) May 25 '82, 10:03-10:06	calculated by Flow-meter
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³ ..
9. Method of haul.. Layered	19. Total number per m ³ 869
10. Duration of haul 3 min	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	2					2	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	103					103	24
Cyclopoida Copepoda			II-9-2	291			2910	681
Harpacticoida Copepoda	I-9-3	6					6	1
10. Copepoda, nauplius			II-10	68			680	159
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	3					3	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	6					6	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		120		359		0	3710	869

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-152

1. Sample No.	2303080	11. Wire run out (m)	
2. JARE	23	12. Wire angle (°)	
3. Area	Syowa Station	13. Depth of haul (m)※	45
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S 39° 37' 16" E	14. Flow-meter used	GO 2030
6. Sea depth (m)	50	15. Flow-meter reading	2763
7. Date & time (LMT)	May 25 '82, 10:10-10:13	16. Volume of water filtered (m ³)	4.4
(GMT)		calculated by Flow-meter	
8. Net used	Modified NIPR-I (100 μm)	17. Wet weight (mg) per m ³	
9. Method of haul	Layered	18. Settling volume (cc) per m ³	
10. Duration of haul	3 min	19. Total number per m ³	340

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	1					1	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	64					64	15
Cyclopoida Copepoda			II-9-2	200			1000	227
Harpacticoida Copepoda	I-9-3	4					4	1
10. Copepoda, nauplius			II-10	84			420	95
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	6					6	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		75		284		0	1495	340

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-153

1. Sample No. <u>2303081</u>	11. Wire run out (m) <u> </u>
2. JARE <u>23</u>	12. Wire angle (°) <u> </u>
3. Area <u>Syowa Station</u>	13. Depth of haul (m) * <u>0</u>
4. Station No. <u>3</u>	estimated by <u> </u>
5. Position <u>68° 59' 57" S</u>	14. Flow-meter used <u>GO 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading <u>2531</u>
6. Sea depth (m) <u>50</u>	16. Volume of water filtered (m ³) <u>4.03</u>
7. Date & time (LMT) <u>June 10 '82, 10:15-10:18</u>	calculated by <u>Flow-meter</u>
(GMT) <u> </u>	17. Wet weight (mg) per m ³ <u> </u>
8. Net used <u>Modified NIPR-1 (100 μ m)</u>	18. Settling volume (cc) per m ³ .. <u> </u>
9. Method of haul .. <u>Layered</u>	19. Total number per m ³ <u>1209</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	4					4	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	105					105	26
Cyclopoida Copepoda			II-9-2	388			3880	963
Harpacticoida Copepoda	I-9-3	175					175	43
10. Copepoda, nauplius			II-10	70			700	174
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	3					3	1
22. Thaliacea							0	0
23. Egg	I-23	6					6	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		293		458		0	4873	1209

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-154

1. Sample No. <u>2303082</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Ser depth (m)	15. Flow-meter reading
7. Date & time (LMT) <u>June 10 '82, 10:20-10:23</u>	16. Volume of water filtered (m ³) <u>4.82</u>
(GMT)	calculated by <u>Flow-meter</u>
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul	18. Settling volume (cc) per m ³
10. Duration of haul <u>3 min</u>	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta							0	0
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	154					154	32
Cyclopoida Copepoda			II-9-2	403			4030	836
Harpacticoida Copepoda	I-9-3	76					76	16
10. Copepoda, nauplius			II-10	84			840	174
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	8					8	2
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	3					3	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		242		487		0	5112	1061

+ : less than 1 indiv./m³

* Depth from m beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-155

1. Sample No. <u>2303083</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)※..... <u>2</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>GO 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>2834</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>4.51</u>
7. Date & time(LMT) <u>June 10 '82, 10:25-10:28</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-1(100 μm)</u>	18. Settling volume(cc) per m ³ ..
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>1403</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	2					2	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	192					192	43
Cyclopoida Copepoda			II-9-2	517			5170	1146
Harpacticoida Copepoda	I-9-3	29					29	6
10. Copepoda, nauplius			II-10	92			920	204
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	14					14	3
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		239		609		0	6329	1403

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-156

1. Sample No. 2303084	11. Wire run out(m).....
2. JARE..... 23	12. Wire angle(').....
3. Area..... Syowa Station	13. Depth of haul(m)※..... 5
4. Station No. 3	estimated by
5. Position..... 68° 59' 57" S	14. Flow-meter used..... GO 2030
39° 37' 16" E	15. Flow-meter reading..... 2539
6. Sea depth(m).... 50	16. Volume of water filtered(m ³) 4.04
7. Date & time(LMT) June 10 '82, 10:29-10:32	calculated by Flow-meter
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... Modified NIPR-I(100μm)	18. Settling volume(cc) per m ³ ..
9. Method of haul.. Layered	19. Total number per m ³ 599
10. Duration of haul 3 min	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta							0	0
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	103					103	25
Cyclopoida Copepoda			II-9-2	409			2045	506
Harpacticoida Copepoda	I-9-3	7					7	2
10. Copepoda, nauplius			II-10	53			265	66
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg							0	0
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		110		462		0	2420	599

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-157

1. Sample No. <u>2303085</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT) <u>June 10 '82, 10:34-10:37</u>	16. Volume of water filtered (m ³) <u>4.46</u>
(GMT)	calculated by <u>Flow-meter</u>
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul	18. Settling volume (cc) per m ³
10. Duration of haul <u>3 min</u>	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	1					1	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	382					382	86
Cyclopoida Copepoda			II-9-2	581			5810	1303
Harpacticoida Copepoda	I-9-3	9					9	2
10. Copepoda, nauplius			II-10	99			990	222
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg							0	0
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		393		680		0	7193	1613

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-158

1. Sample No. 2303086	11. Wire run out(m).....
2. JARE..... 23	12. Wire angle(').....
3. Area..... Syowa Station	13. Depth of haul(m)※..... 20
4. Station No. 3	estimated by
5. Position..... 68° 59' 57" S	14. Flow-meter used..... GO 2030
39° 37' 18" E	15. Flow-meter reading..... 2797
6. Sea depth(m).... 50	16. Volume of water filtered(m ³) 4.45
7. Date & time(LMT) June 10 '82, 10:40-10:43	calculated by Flow-meter
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³ ..
9. Method of haul.. Layered	19. Total number per m ³ 963
10. Duration of haul 3 min	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	1					1	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	189					189	42
Cyclopoida Copepoda			II-9-2	357			3570	802
Harpacticoida Copepoda	I-9-3	6					6	1
10. Copepoda, nauplius			II-10	52			520	117
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg							0	0
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		196		409		0	4286	963

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-159

1. Sample No.	<u>2303087</u>	11. Wire run out(m)	_____
2. JARE	<u>23</u>	12. Wire angle(')	_____
3. Area	<u>Syowa Station</u>	13. Depth of haul(m) *	<u>30</u>
4. Station No.	<u>3</u>	estimated by	_____
5. Position	<u>68° 59' 57" S</u>	14. Flow-meter used	<u>G0 2030</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading	<u>2856</u>
6. Sea depth(m)	<u>50</u>	16. Volume of water filtered(m ³)	<u>4.54</u>
7. Date & time(LMT)	<u>June 10 '82, 10:45-10:48</u>	calculated by	<u>Flow-meter</u>
(GMT)	_____	17. Wet weight(mg) per m ³	_____
8. Net used	<u>Modified NIPR-I(100 μm)</u>	18. Settling volume(cc) per m ³	_____
9. Method of haul	<u>Layered</u>	19. Total number per m ³	<u>636</u>
10. Duration of haul	<u>3 min</u>		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	1					1	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	143					143	31
Cyclopoida Copepoda			II-9-2	476			2380	524
Harpacticoida Copepoda	I-9-3	6					6	1
10. Copepoda, nauplius			II-10	71			355	78
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	1					1	+
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		153		547		0	2888	636

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-160

1. Sample No. 2303088	11. Wire run out(m)
2. JARE	12. Wire angle(')
3. Area	13. Depth of haul(m) *
4. Station No. 3	45
5. Position	estimated by
68° 59' 57" S	14. Flow-meter used
39° 37' 16" E	15. Flow-meter reading
6. Sea depth(m) 50	GO 2030
7. Date & time(LMT) June 10 '82, 10:51-10:54	16. Volume of water filtered(m ³)
(GMT)	2690
8. Net used	17. Wet weight(mg) per m ³
Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³
9. Method of haul .. Layered	calculated by Flow-meter
10. Duration of haul 3 min	19. Total number per m ³
	355

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta							0	0
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	119					119	28
Cyclopoida Copepoda	I-9-2	1138					1138	266
Harpacticoida Copepoda	I-9-3	8					8	2
10. Copepoda, nauplius	I-10	254					254	59
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	1					1	+
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		1521		0		0	1521	355

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-161

1. Sample No. 2303089
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) June 10 '82, 17:20-17:23
 (GMT)
 8. Net used Modified NIPR-I (100 μm)
 9. Method of haul Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 0
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 2721
 16. Volume of water filtered (m³) 4.33
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 2039

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	3					3	1
7. Cladocera							0	0
8. Ostracoda	I-8	1					1	+
9. Calanoida Copepoda	I-9-1	322					322	74
Cyclopoida Copepoda			II-9-2	758			7580	1751
Harpacticoida Copepoda	I-9-3	174					174	40
10. Copepoda, nauplius			II-10	74			740	171
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	7					7	2
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		509		832		0	8829	2039

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-162

1. Sample No. 2303090	11. Wire run out(m).....
2. JARE..... 23	12. Wire angle(').....
3. Area..... Syowa Station	13. Depth of haul(m)※..... 1
4. Station No. 3	estimated by
5. Position..... 68° 59' 57" S	14. Flow-meter used..... GO 2030
39° 37' 16" E	15. Flow-meter reading..... 2835
6. Sea depth(m).... 50	16. Volume of water filtered(m ³) 4.51
7. Date & time(LMT) June 10 '82, 17:25-17:28	calculated by Flow-meter
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³ ..
9. Method of haul.. Layered	19. Total number per m ³ 1732
10. Duration of haul 3 min	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	3					3	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	264					264	59
Cyclopoida Copepoda			II-9-2	640			6400	1419
Harpacticoida Copepoda	I-9-3	17					17	4
10. Copepoda, nauplius			II-10	112			1120	248
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	3					3	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		287		752		0	7807	1732

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-163

1. Sample No. 2303091
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) June 10 '82, 17:30-17:33
 (GMT)
 8. Net used Modified NIPR-I (100 μm)
 9. Method of haul Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 2
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 2786
 16. Volume of water filtered (m³) 4.43
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 1729

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	5					5	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	281					281	63
Cyclopoida Copepoda			II-9-2	671			671	1515
Harpacticoida Copepoda	I-9-3	19					19	4
10. Copepoda, nauplius			II-10	64			64	144
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	4					4	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg							0	0
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	1					1	+
29. Radiolaria							0	0
Total		310		735		0	766	1729

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-164

1. Sample No. 2303092	11. Wire run out(m)
2. JARE	12. Wire angle(')
3. Area	13. Depth of haul(m) *
4. Station No. 3	estimated by
5. Position	14. Flow-meter used
68° 59' 57" S	15. Flow-meter reading
39° 37' 16" E	16. Volume of water filtered(m ³)
6. Sea depth(m) 50	17. Wet weight(mg) per m ³
7. Date & time(LMT) June 10 '82, 17:35-17:38	18. Settling volume(cc) per m ³
(GMT)	calculated by
8. Net used	19. Total number per m ³
9. Method of haul .. Layered	
10. Duration of haul 3 min	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta							0	0
7. Cladocera							0	0
8. Ostracoda	I-8	1					1	+
9. Calanoida Copepoda	I-9-1	289					289	59
Cyclopoida Copepoda			II-9-2	550			5500	1127
Harpacticoida Copepoda	I-9-3	14					14	3
10. Copepoda, nauplius			II-10	61			610	125
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	3					3	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	6					6	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		313		611		0	6423	1318

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-165

1. Sample No. <u>2303093</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)*..... <u>10</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>G0 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>2864</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>4.56</u>
7. Date & time(LMT) <u>June 10 '82, 17:40-17:43</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-I(100 μm)</u>	18. Settling volume(cc) per m ³ ...
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>1256</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta							0	0
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	242					242	53
Cyclopoida Copepoda			II-9-2	481			4810	1055
Harpacticoida Copepoda	I-9-3	16					16	4
10. Copepoda, nauplius			II-10	54			540	140
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	10					10	2
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	3					3	1
28. Unidentified forms	I-28	3					3	1
29. Radiolaria							0	0
Total		275		545		0	5725	1256

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-166

1. Sample No. <u>2303094</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT) <u>June 10 '82, 17:45-17:48</u>	16. Volume of water filtered (m ³)
(GMT)	calculated by <u>Flow-meter</u>
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul ..	18. Settling volume (cc) per m ³ ..
10. Duration of haul <u>3 min</u>	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	1					1	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	283					283	62
Cyclopoida Copepoda			II-9-2	461			4610	1009
Harpacticoida Copepoda	I-9-3	7					7	2
10. Copepoda, nauplius			II-10	65			650	142
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	2					2	+
22. Thaliacea							0	0
23. Egg							0	0
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		294		528		0	5554	1215

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-167

1. Sample No.	2303095	11. Wire run out (m)	
2. JARE	23	12. Wire angle (°)	
3. Area	Syowa Station	13. Depth of haul (m) *	30
4. Station No.	3	estimated by	
5. Position	88° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	2323
6. Sea depth (m)	50	16. Volume of water filtered (m ³)	3.71
7. Date & time (LMT)	June 10 '82, 17:51-17:54	calculated by	Flow-meter
(GMT)		17. Wet weight (mg) per m ³	
8. Net used	Modified NIPR-I (100 μm)	18. Settling volume (cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	124
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta							0	0
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	26					26	7
Cyclopoida Copepoda	I-9-2	397					397	107
Harpacticoida Copepoda	I-9-3	1					1	+
10. Copepoda, nauplius	I-10	34					34	9
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	1					1	+
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		459		0		0	459	124

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-168

1. Sample No.	2303096	11. Wire run out (m)	
2. JARE	23	12. Wire angle (°)	
3. Area	Syowa Station	13. Depth of haul (m) *	45
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S 39° 37' 16" E	14. Flow-meter used	GO 2030
6. Sea depth (m)	50	15. Flow-meter reading	2721
7. Date & time (LMT)	June 10 '82, 17:59-18:02	16. Volume of water filtered (m ³)	4.33
(GMT)		calculated by	Flow-meter
8. Net used	Modified NIPR-I (100 μm)	17. Wet weight (mg) per m ³	
9. Method of haul	Layered	18. Settling volume (cc) per m ³	
10. Duration of haul	3 min	19. Total number per m ³	501

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³	
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial			
1. Foraminifera							0	0	
2. Siphonophora							0	0	
3. Other medusae							0	0	
4. Ctenophora							0	0	
5. Chaetognatha							0	0	
6. Polychaeta							0	0	
7. Cladocera							0	0	
8. Ostracoda							0	0	
9. Calanoida Copepoda	I-9-1	100					100	23	
Cyclopoida Copepoda			II-9-2	347			1735	401	
Harpacticoida Copepoda	I-9-3	6					6	1	
10. Copepoda, nauplius			II-10	63			315	73	
11. Cumacea							0	0	
12. Isopoda							0	0	
13. Amphipoda							0	0	
14. Mysidacea							0	0	
15. Euphausiacea							0	0	
16. Decapoda							0	0	
17. Other Crustacea							0	0	
18. Heteropoda/Pteropoda							0	0	
19. Cephalopoda							0	0	
20. Other Mollusca							0	0	
21. Appendicularia							0	0	
22. Thaliacea							0	0	
23. Egg	I-23	12					12	3	
24. Euphausiacea, nauplius							0	0	
25. Nematoda							0	0	
26. Fish larvae							0	0	
27. Planktonic larval forms							0	0	
28. Unidentified forms							0	0	
29. Radiolaria							0	0	
Total		118		410			0	2168	501

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-169

1. Sample No. <u>2303097</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT) <u>June 11 '32, 23:21-23:24</u>	16. Volume of water filtered (m ³)
(GMT)	calculated by <u>Assumption</u>
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul	18. Settling volume (cc) per m ³
10. Duration of haul <u>3 min</u>	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta							0	0
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	230					230	47
Cyclopoida Copepoda			II-9-2	196			1960	403
Harpacticoida Copepoda	I-9-3	81					81	17
10. Copepoda, nauplius			II-10	47			470	97
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda	I-13	1					1	+
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	1					1	+
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		313		243		0	2743	564

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-170

1. Sample No. 2303098
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) June 11 '82, 23:26-23:29
 (GMT)
 8. Net used Modified NIPR-I (100 μm)
 9. Method of haul .. Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 1
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3048
 16. Volume of water filtered (m³) 4.84
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 1600

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³	
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial			
1. Foraminifera							0	0	
2. Siphonophora							0	0	
3. Other medusae							0	0	
4. Ctenophora							0	0	
5. Chaetognatha							0	0	
6. Polychaeta	I-6	4					4	1	
7. Cladocera							0	0	
8. Ostracoda	I-8	1					1	+	
9. Calanoida Copepoda	I-9-1	479					479	99	
Cyclopoida Copepoda			II-9-2	633			6330	1308	
Harpacticoida Copepoda	I-9-3	13					13	3	
10. Copepoda, nauplius			II-10	89			890	184	
11. Cumacea							0	0	
12. Isopoda							0	0	
13. Amphipoda	I-13	2					2	+	
14. Mysidacea							0	0	
15. Euphausiacea							0	0	
16. Decapoda							0	0	
17. Other Crustacea							0	0	
18. Heteropoda/Pteropoda							0	0	
19. Cephalopoda							0	0	
20. Other Mollusca							0	0	
21. Appendicularia							0	0	
22. Thaliacea							0	0	
23. Egg	I-23	14					14	3	
24. Euphausiacea, nauplius							0	0	
25. Nematoda							0	0	
26. Fish larvae							0	0	
27. Planktonic larval forms	I-27	3					3	1	
28. Unidentified forms	I-28	6					6	1	
29. Radiolaria							0	0	
Total		522		722			0	7742	1600

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-171

1. Sample No. 2303099	11. Wire run out(m).....
2. JARE..... 23	12. Wire angle(').....
3. Area..... Syowa Station	13. Depth of haul(m)*..... 2
4. Station No. 3	estimated by
5. Position..... 68° 59' 57" S	14. Flow-meter used..... GO 2030
39° 37' 16" E	15. Flow-meter reading..... 3209
6. Sea depth(m).... 50	16. Volume of water filtered(m ³) 5.1
7. Date & time(LMT) June 11 '82, 23:33-23:36	calculated by Flow-meter
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³ ..
9. Method of haul.. Layered	19. Total number per m ³ 1144
10. Duration of haul 3 min	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	2					2	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	380					380	75
Cyclopoida Copepoda			II-9-2	495			4950	971
Harpacticoida Copepoda	I-9-3	9					9	2
10. Copepoda, nauplius			II-10	48			480	94
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	6					6	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	4					4	1
29. Radiolaria							0	0
Total		402		543		0	5832	1144

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-172

1. Sample No. 2303100
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth(m) 50
 7. Date & time(LMT) June 11 '82, 23:39-23:42
 (GMT)
 8. Net used Modified NIPR-I(100 μm)
 9. Method of haul .. Layered
 10. Duration of haul 3 min
 11. Wire run out(m)
 12. Wire angle(')
 13. Depth of haul(m)※ 5
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3337
 16. Volume of water filtered(m³) 5.3
 calculated by Flow-meter
 17. Wet weight(mg) per m³
 18. Settling volume(cc) per m³
 19. Total number per m³ 1296

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta							0	0
7. Cladocera							0	0
8. Ostracoda	I-8	3					3	1
9. Calanoida Copepoda	I-9-1	499					499	94
Cyclopoida Copepoda			II-9-2	544			544	1026
Harpacticoida Copepoda	I-9-3	12					12	2
10. Copepoda, nauplius			II-10	91			91	172
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	2					2	+
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	2					2	+
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		519		635		0	6869	1296

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-173

1. Sample No. 2303101	11. Wire run out(m).....
2. JARE..... 23	12. Wire angle(').....
3. Area..... Syowa Station	13. Depth of haul(m)*..... 10
4. Station No. 3	estimated by
5. Position..... 68° 59' 57" S	14. Flow-meter used..... GO 2030
39° 37' 16" E	15. Flow-meter reading..... 3131
6. Sea depth(m).... 50	16. Volume of water filtered(m ³) 4.97
7. Date & time(LMT) June 11 '82, 23:44-23:47	calculated by Flow-meter
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... Modified NIPR-1(100 μm)	18. Settling volume(cc) per m ³ ..
9. Method of haul.. Layered	19. Total number per m ³ 118
10. Duration of haul 3 min	

Proportion of Sample sorted	I/1 Sample [Sort I]		I/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	3					3	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	389					389	78
Cyclopoida Copepoda			II-9-2	458			4580	922
Harpacticoida Copepoda	I-9-3	7					7	1
10. Copepoda, nauplius			II-10	56			560	113
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	1					1	+
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	11					11	2
29. Radiolaria							0	0
Total		414		514		0	5554	1118

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-174

1. Sample No. <u>2303102</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)*..... <u>20</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>GO 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>2974</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>4.73</u>
7. Date & time(LMT) <u>June 11 '82, 23:49-23:52</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-I(100 μm)</u>	18. Settling volume(cc) per m ³ ..
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>1086</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	2					2	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	3					3	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	144					144	30
Cyclopoida Copepoda			II-9-2	448			4480	947
Harpacticoida Copepoda	I-9-3	5					5	1
10. Copepoda, nauplius			II-10	48			480	101
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	9					9	2
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	11					11	2
29. Radiolaria							0	0
Total		177		496		0	5137	1086

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-175

1. Sample No. <u>2303103</u>	11. Wire run out(m)..... _____
2. JARE..... <u>23</u>	12. Wire angle(')..... _____
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)※..... <u>30</u>
4. Station No. <u>3</u>	estimated by _____
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>GO 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>2675</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>4.26</u>
7. Date & time(LMT) <u>June 11 '82, 23:55-23:58</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³ _____
8. Net used..... <u>Modified NIPR-I(100 μm)</u>	18. Settling volume(cc) per m ³ .. _____
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>1006</u>
10. Duration of haul <u>3 min</u>	

Proprtion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora	I-2	1					1	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	2					2	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	276					276	65
Cyclopoida Copepoda			II-9-2	748			3740	878
Harpacticoida Copepoda	I-9-3	10					10	2
10. Copepoda, nauplius			II-10	46			230	54
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	2					2	+
22. Thaliacea							0	0
23. Egg	I-23	8					8	2
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	15					15	4
29. Radiolaria							0	0
Total		314		794		0	4284	1006

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-176

1. Sample No.	2303104	11. Wire run out(m)	
2. JARE	23	12. Wire angle(')	
3. Area	Syowa Station	13. Depth of haul(m) *	45
4. Station No.	3	estimated by	
5. Position	88° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 18" E	15. Flow-meter reading	3011
6. Sea depth(m)	50	16. Volume of water filtered(m ³)	4.79
7. Date & time(LMT) June 12 '82, 00:01-00:04		calculated by	Flow-meter
(GMT)		17. Wet weight(mg) per m ³	
8. Net used	Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	486
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	3					3	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	93					93	19
Cyclopoida Copepoda			II-9-2	941			1882	393
Harpacticoida Copepoda	I-9-3	12					12	3
10. Copepoda, nauplius			II-10	157			314	66
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	1			2	+
22. Thaliacea							0	0
23. Egg	I-23	9					9	2
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	9					9	2
29. Radiolaria							0	0
Total		126		1099		0	2324	486

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-177

1. Sample No. <u>2303105</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT)	16. Volume of water filtered (m ³)
(GMT)	calculated by <u>Flow-meter</u>
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul	18. Settling volume (cc) per m ³
10. Duration of haul	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	5					5	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	1192					1192	261
Cyclopoida Copepoda			II-9-2	1009			10090	2213
Harpacticoida Copepoda	I-9-3	212					212	46
10. Copepoda, nauplius			II-10	58			580	127
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda	I-13	3					3	1
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	3					3	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea	I-22	1					1	+
23. Egg	I-23	2					2	+
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	10					10	2
29. Radiolaria	I-29	6					6	1
Total		1435		1067		0	12105	2655

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-178

1. Sample No. 2303108
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) June 12 '82, 08:44-08:47
 (GMT)
 8. Net used Modified NIPR-I (100 μm)
 9. Method of haul Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 1
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3052
 16. Volume of water filtered (m³) 4.85
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 1979

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³	
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial			
1. Foraminifera							0	0	
2. Siphonophora							0	0	
3. Other medusae							0	0	
4. Ctenophora							0	0	
5. Chaetognatha							0	0	
6. Polychaeta	I-6	6					6	1	
7. Cladocera							0	0	
8. Ostracoda							0	0	
9. Calanoida Copepoda	I-9-1	529					529	109	
Cyclopoida Copepoda			II-9-2	819			8190	1689	
Harpacticoida Copepoda	I-9-3	20					20	4	
10. Copepoda, nauplius			II-10	78			780	161	
11. Cumacea							0	0	
12. Isopoda							0	0	
13. Amphipoda							0	0	
14. Mysidacea							0	0	
15. Euphausiacea							0	0	
16. Decapoda							0	0	
17. Other Crustacea							0	0	
18. Heteropoda/Pteropoda	I-18	2					2	+	
19. Cephalopoda							0	0	
20. Other Mollusca							0	0	
21. Appendicularia	I-21	1					1	+	
22. Thaliacea							0	0	
23. Egg	I-23	47					47	10	
24. Euphausiacea, nauplius							0	0	
25. Nematoda							0	0	
26. Fish larvae							0	0	
27. Planktonic larval forms	I-27	1					1	+	
28. Unidentified forms	I-28	24					24	5	
29. Radiolaria							0	0	
Total		630		897			0	9600	1979

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-179

1. Sample No. 2303107 11. Wire run out(m).....
 2. JARE..... 23 12. Wire angle(').....
 3. Area..... Syowa Station 13. Depth of haul(m)※..... 2
 4. Station No. 3 estimated by
 5. Position..... 68° 59' 57" S 14. Flow-meter used..... GO 2030
39° 37' 16" E 15. Flow-meter reading..... 3208
 6. Sea depth(m).... 50 16. Volume of water filtered(m³) 5.1
 7. Date & time(LMT) June 12 '82, 06:49-06:52 calculated by Flow-meter
 (GMT)
 8. Net used..... Modified NIPR-I(100 μm) 17. Wet weight(mg) per m³.....
 9. Method of haul.. Layered 18. Settling volume(cc) per m³..
 10. Duration of haul 3 min 19. Total number per m³..... 1242

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	2					2	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	359					359	70
Cyclopoida Copepoda			II-9-2	529			5290	1037
Harpacticoida Copepoda	I-9-3	11					11	2
10. Copepoda, nauplius			II-10	64			640	125
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	2					2	+
22. Thaliacea							0	0
23. Egg	I-23	18					18	4
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	10					10	2
29. Radiolaria	I-29	2					2	+
Total		405		593		0	6335	1242

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-180

1. Sample No. 2303108	11. Wire run out(m).....
2. JARE..... 23	12. Wire angle(').....
3. Area..... Syowa Station	13. Depth of haul(m)※..... 5
4. Station No. 3	estimated by
5. Position..... 88° 59' 57" S	14. Flow-meter used..... GO 2030
39° 37' 16" E	15. Flow-meter reading..... 3120
6. Sea depth(m).... 50	16. Volume of water filtered(m ³) 4.96
7. Date & time(LMT) June 12 '82, 08:54-08:57	calculated by Flow-meter
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³ ..
9. Method of haul.. Layered	19. Total number per m ³ 1512
10. Duration of haul 3 min	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-8	2					2	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	414					414	83
Cyclopoida Copepoda			II-9-2	631			6310	1272
Harpacticoida Copepoda	I-9-3	10					10	2
10. Copepoda, nauplius			II-10	74			740	149
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	6					6	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	19					19	4
29. Radiolaria							0	0
Total		451		705		0	7501	1512

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-181

1. Sample No. <u>2303109</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT) <u>June 12 '82, 06:58-07:01</u>	16. Volume of water filtered (m ³) <u>4.84</u>
(GMT)	calculated by <u>Flow-meter</u>
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul ..	18. Settling volume (cc) per m ³ ..
10. Duration of haul <u>3 min</u>	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	3					3	1
7. Cladocera							0	0
8. Ostracoda	I-8	1					1	+
9. Calanoida Copepoda	I-9-1	403					403	83
Cyclopoida Copepoda			II-9-2	528			5280	1091
Harpacticoida Copepoda	I-9-3	13					13	3
10. Copepoda, nauplius			II-10	56			560	116
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	13					13	3
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	17					17	4
29. Radiolaria							0	0
Total		453		584		0	6293	1301

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-182

1. Sample No. 2303110
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) June 12 '82, 07:03-07:06
 (GMT)
 8. Net used Modified NIPR-1 (100 μm)
 9. Method of haul .. Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 20
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 2994
 16. Volume of water filtered (m³) 4.68
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 1472

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	1					1	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	371					371	79
Cyclopoida Copepoda			II-9-2	573			573	1224
Harpacticoida Copepoda	I-9-3	6					6	1
10. Copepoda, nauplius			II-10	74			74	158
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	13					13	3
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	22					22	5
29. Radiolaria							0	0
Total		417		647		0	6887	1472

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-183

1. Sample No.	2303111	11. Wire run out(m)	
2. JARE	23	12. Wire angle(°)	
3. Area	Syowa Station	13. Depth of haul(m) *	30
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	2599
6. Sea depth(m)	50	16. Volume of water filtered(m ³)	4.14
7. Date & time(LMT)	June 12 '82, 07:09-07:12	calculated by Flow-meter	
	(GMT)	17. Wet weight(mg) per m ³	
8. Net used	Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	1062
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	3					3	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	289					289	70
Cyclopoida Copepoda			II-9-2	739			3695	893
Harpacticoida Copepoda	I-9-3	11					11	3
10. Copepoda, nauplius			II-10	72			360	87
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	15					15	4
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	2					2	+
28. Unidentified forms	I-28	16					16	4
29. Radiolaria	I-29	1					1	+
Total		339		811		0	4394	1062

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-184

1. Sample No.	2303112	11. Wire run out (m)	
2. JARE	23	12. Wire angle (°)	
3. Area	Syowa Station	13. Depth of haul (m) *	45
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	2961
6. Sea depth (m)	50	16. Volume of water filtered (m ³)	4.71
7. Date & time (LMT)	June 12 '82, 07:15-07:18	calculated by	Flow-meter
(GMT)		17. Wet weight (mg) per m ³	
8. Net used	Modified NIPR-I (100 μm)	18. Settling volume (cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	694
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta							0	0
7. Cladocera							0	0
8. Ostracoda	I-8	1					1	+
9. Calanoida Copepoda	I-9-1	231					231	49
Cyclopoida Copepoda			II-9-2	551			2755	585
Harpacticoida Copepoda	I-9-3	7					7	1
10. Copepoda, nauplius			II-10	54			270	57
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	1					1	+
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	4					4	1
29. Radiolaria							0	0
Total		244		605		0	3269	694

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-185

1. Sample No.	2303113	11. Wire run out (m)	
2. JARE	23	12. Wire angle (°)	
3. Area	Syowa Station	13. Depth of haul (m)※	0
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	2077
6. Sea depth (m)	50	16. Volume of water filtered (m ³)	4.64
7. Date & time (LMT)	June 12 '82, 11:14-11:17	calculated by Assumption	
	(GMT)	17. Wet weight (mg) per m ³	
8. Net used	Modified NIPR-I (100 μm)	18. Settling volume (cc) per m ³	
9. Method of haul	Layered	19. Total number per m ³	695
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	1					1	+
6. Polychaeta	I-6	1					1	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	560					560	121
Cyclopoida Copepoda			II-9-2	187			1870	403
Harpacticoida Copepoda	I-9-3	163					163	35
10. Copepoda, nauplius			II-10	62			620	134
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	3					3	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	2					2	+
28. Unidentified forms	I-28	4					4	1
29. Radiolaria							0	0
Total		735		249		0	3225	695

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-186

1. Sample No. <u>2303114</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)*..... <u>1</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>GO 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>3027</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>4.81</u>
7. Date & time(LMT) <u>June 12 '82, 11:19-11:22</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-I(100 μm)</u>	18. Settling volume(cc) per m ³ ..
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>1178</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	1					1	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	327					327	68
Cyclopoida Copepoda			II-9-2	442			4420	919
Harpacticoida Copepoda	I-9-3	17					17	4
10. Copepoda, nauplius			II-10	87			870	181
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	13					13	3
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	13					13	3
29. Radiolaria							0	0
Total		371		529		0	5661	1178

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-187

1. Sample No.	2303115	11. Wire run out(m)	
2. JARE	23	12. Wire angle(')	
3. Area	Syowa Station	13. Depth of haul(m) *	2
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	3020
6. Sea depth(m)	50	16. Volume of water filtered(m ³)	4.8
7. Date & time(LMT) June 12 '82, 11:25-11:28		calculated by	Flow-meter
(GMT)		17. Wet weight(mg) per m ³	
8. Net used	Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³	
9. Method of haul ..	Layered	19. Total number per m ³	946
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta							0	0
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	315					315	66
Cyclopoida Copepoda			II-9-2	340			3400	708
Harpacticoida Copepoda	I-9-3	15					15	3
10. Copepoda, nauplius			II-10	79			790	165
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda			II-18	1			10	2
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	6					6	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	5					5	1
29. Radiolaria							0	0
Total		342		420		0	4542	946

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-188

1. Sample No. 2303116 11. Wire run out (m) _____
 2. JARE 23 12. Wire angle (°) _____
 3. Area Syowa Station 13. Depth of haul (m) * 5
 4. Station No. 3 estimated by _____
 5. Position 68° 59' 57" S 14. Flow-meter used GO 2030
39° 37' 16" E 15. Flow-meter reading 2999
 6. Sea depth (m) 50 16. Volume of water filtered (m³) 4.77
 7. Date & time (LMT) June 12 '82, 11:30-11:33 calculated by Flow-meter
 (GMT) 17. Wet weight (mg) per m³ _____
 8. Net used Modified NIPR-1 (100 μm) 18. Settling volume (cc) per m³ _____
 9. Method of haul Layered 19. Total number per m³ 1464
 10. Duration of haul 3 min

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	1					1	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	313					313	66
Cyclopoida Copepoda			II-9-2	609			6090	1277
Harpacticoida Copepoda	I-9-3	9					9	2
10. Copepoda, nauplius			II-10	54			540	113
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	18					18	4
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	11					11	2
29. Radiolaria							0	0
Total		352		663		0	6982	1464

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-189

1. Sample No.	2303117	11. Wire run out(m)	
2. JARE	23	12. Wire angle(°)	
3. Area	Syowa Station	13. Depth of haul(m) *	10
4. Station No.	3	estimated by	
5. Position	88° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	2988
6. Sea depth(m)	50	16. Volume of water filtered(m ³)	4.75
7. Date & time(LMT)	June 12 '82, 11:35-11:38	calculated by	Flow-meter
(GMT)		17. Wet weight(mg) per m ³	
8. Net used	Modified NIPR-I(100μm)	18. Settling volume(cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	1293
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta							0	0
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	316					316	67
Cyclopoida Copepoda			II-9-2	532			5320	1120
Harpacticoida Copepoda	I-9-3	8					8	2
10. Copepoda, nauplius			II-10	47			470	99
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	10					10	2
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	13					13	3
29. Radiolaria							0	0
Total		349		579		0	6139	1293

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-190

1. Sample No. <u>2303118</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	20
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT)	16. Volume of water filtered (m ³)
(GMT)	2495
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul	18. Settling volume (cc) per m ³
10. Duration of haul	19. Total number per m ³
	807

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta			II-6	1			5	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	182					182	46
Cyclopoida Copepoda			II-9-2	541			2705	680
Harpacticoida Copepoda	I-9-3	5					5	1
10. Copepoda, nauplius			II-10	60			300	75
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	10					10	3
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	2					2	1
29. Radiolaria							0	0
Total		200		602		0	3210	807

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-191

1. Sample No. <u>2303119</u>	11. Wire run out(m)..... _____
2. JARE..... <u>23</u>	12. Wire angle(')..... _____
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)※..... <u>30</u>
4. Station No. <u>3</u>	estimated by _____
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>GO 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>2956</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>4.7</u>
7. Date & time(LMT) <u>June 12 '82, 11:46-11:49</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³ _____
8. Net used..... <u>Modified NIPR-I(100 μm)</u>	18. Settling volume(cc) per m ³ .. _____
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>1571</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta							0	0
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	281					281	60
Cyclopoida Copepoda			II-9-2	642			6420	1366
Harpacticoida Copepoda	I-9-3	5					5	1
10. Copepoda, nauplius			II-10	63			630	134
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	34					34	7
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	9					9	2
29. Radiolaria							0	0
Total		332		705		0	7382	1571

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-192

1. Sample No.	2303120	11. Wire run out(m)	
2. JARE	23	12. Wire angle(°)	
3. Area	Syowa Station	13. Depth of haul(m)*	45
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S 39° 37' 16" E	14. Flow-meter used	GO 2030
6. Sea depth(m)	50	15. Flow-meter reading	2958
7. Date & time(LMT) June 12 '82, 11:53-11:56		16. Volume of water filtered(m ³)	4.7
(GMT)		calculated by	Flow-meter
8. Net used	Modified NIPR-1(100 μm)	17. Wet weight(mg) per m ³	
9. Method of haul ..	Layered	18. Settling volume(cc) per m ³ ..	
10. Duration of haul	3 min	19. Total number per m ³	526

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	3					3	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	136					136	29
Cyclopoida Copepoda			II-9-2	400			2000	426
Harpacticoida Copepoda	I-9-3	2					2	+
10. Copepoda, nauplius			II-10	62			310	66
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	3					3	1
22. Thaliacea							0	0
23. Egg	I-23	7					7	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	8					8	2
29. Radiolaria							0	0
Total		161		462		0	2471	526

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-193

1. Sample No. <u>2303121</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
	15. Flow-meter reading
6. Sea depth (m)	16. Volume of water filtered (m ³)
7. Date & time (LMT) <u>July 7 '82, 11:45-11:48</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight (mg) per m ³
8. Net used	18. Settling volume (cc) per m ³
9. Method of haul	19. Total number per m ³
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae	I-3	1					1	+
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	3					3	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	560					560	146
Cyclopoida Copepoda			II-9-2	226			1130	295
Harpacticoida Copepoda	I-9-3	115					115	30
10. Copepoda, nauplius	I-10	1	II-10	121			606	158
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	5					5	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	2					2	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	2					2	1
29. Radiolaria							0	0
Total		690		347		0	2425	633

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-194

1. Sample No. <u>2303122</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)※..... <u>1</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>G0 2030</u>
<u>39° 37' 18" E</u>	15. Flow-meter reading..... <u>3054</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>4.85</u>
7. Date & time(LMT) <u>July 7 '82, 11:40-11:43</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-I(100 μm)</u>	18. Settling volume(cc) per m ³ ..
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>479</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	8					8	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	413					413	85
Cyclopoida Copepoda			II-9-2	288			1440	297
Harpacticoida Copepoda	I-9-3	42					42	9
10. Copepoda, nauplius			II-10	82			410	85
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	4					4	1
22. Thaliacea							0	0
23. Egg							0	0
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	1					1	+
29. Radiolaria							0	0
Total		468		370		0	2318	479

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-195

1. Sample No. <u>2303123</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)*..... <u>2</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>GO 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>3107</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>4.94</u>
7. Date & time(LMT) <u>July 7 '82, 11:35-11:38</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-I(100 μm)</u>	18. Settling volume(cc) per m ³ ..
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>1045</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	I/1 Sample [Sort I]		I/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	1					1	+
6. Polychaeta	I-6	3					3	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	263					263	53
Cyclopoida Copepoda			II-9-2	424			424	858
Harpacticoida Copepoda	I-9-3	21					21	4
10. Copepoda, nauplius			II-10	62			620	126
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	6					6	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	1					1	+
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	6					6	1
28. Unidentified forms	I-28	1					1	+
29. Radiolaria							0	0
Total		302		486		0	5162	1045

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-198

1. Sample No. <u>2303124</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)※..... <u>5</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>GO 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>2758</u>
6. Sea depth(m).... <u>50</u>	18. Volume of water filtered(m ³) <u>4.39</u>
7. Date & time(LMT) <u>July 7 '82, 11:30-11:33</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-1(100 μm)</u>	18. Settling volume(cc) per m ³ ..
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>787</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora	I-2	1					1	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	7					7	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	185					185	42
Cyclopoida Copepoda			II-9-2	276			2760	629
Harpacticoida Copepoda	I-9-3	6					6	1
10. Copepoda, nauplius			II-10	49			490	112
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	3					3	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	2					2	+
29. Radiolaria							0	0
Total		207		325		0	3457	787

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-197

1. Sample No. 2303125
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) July 7 '82, 11:24-11:27
 (GMT)
 8. Net used Modified NIPR-I (100 μm)
 9. Method of haul .. Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 10
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3006
 16. Volume of water filtered (m³) 4.78
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 1110

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	6					6	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	191					191	40
Cyclopoida Copepoda			II-9-2	442			4420	925
Harpacticoida Copepoda	I-9-3	13					13	3
10. Copepoda, nauplius			II-10	66			660	138
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	7					7	1
22. Thaliacea							0	0
23. Egg	I-23	2					2	+
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	4					4	1
28. Unidentified forms	I-28	2					2	+
29. Radiolaria							0	0
Total		226		508		0	5306	1110

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-198

1. Sample No. 2303126
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) July 7 '82, 11:18-11:21
 (GMT)
 8. Net used Modified NIPR-1 (100 μm)
 9. Method of haul .. Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 20
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3078
 16. Volume of water filtered (m³) 4.89
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 801

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³	
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial			
1. Foraminifera	I-1	1					1	+	
2. Siphonophora							0	0	
3. Other medusae							0	0	
4. Ctenophora							0	0	
5. Chaetognatha							0	0	
6. Polychaeta	I-6	5					5	1	
7. Cladocera							0	0	
8. Ostracoda							0	0	
9. Calanoida Copepoda	I-9-1	210					210	43	
Cyclopoida Copepoda			II-9-2	661			3305	676	
Harpacticoida Copepoda	I-9-3	21					21	4	
10. Copepoda, nauplius			II-10	73			365	75	
11. Cumacea							0	0	
12. Isopoda							0	0	
13. Amphipoda							0	0	
14. Mysidacea							0	0	
15. Euphausiacea							0	0	
16. Decapoda							0	0	
17. Other Crustacea							0	0	
18. Heteropoda/Pteropoda	I-18	1					1	+	
19. Cephalopoda							0	0	
20. Other Mollusca							0	0	
21. Appendicularia	I-21	2					2	+	
22. Thaliacea							0	0	
23. Egg	I-23	3					3	1	
24. Euphausiacea, nauplius							0	0	
25. Nematoda							0	0	
26. Fish larvae							0	0	
27. Planktonic larval forms							0	0	
28. Unidentified forms	I-28	4					4	1	
29. Radiolaria							0	0	
Total		247		734			0	3917	801

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-199

1. Sample No. <u>2303127</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	30
5. Position	estimated by
6. Sea depth (m)	14. Flow-meter used
7. Date & time (LMT)	15. Flow-meter reading
(GMT)	16. Volume of water filtered (m ³)
8. Net used	GO 2030
9. Method of haul	17. Wet weight (mg) per m ³
10. Duration of haul	18. Settling volume (cc) per m ³
3 min	calculated by <u>Flow-meter</u>
	19. Total number per m ³
	415

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	1					1	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	134					134	35
Cyclopoida Copepoda			II-9-2	669			1338	348
Harpacticoida Copepoda	I-9-3	2					2	1
10. Copepoda, nauplius			II-10	55			110	29
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	2					2	1
22. Thaliacea							0	0
23. Egg	I-23	3					3	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	1					1	+
29. Radiolaria							0	0
Total		144		724		0	1592	415

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-200

1. Sample No.	2303128	11. Wire run out (m)	
2. JARE	23	12. Wire angle (°)	
3. Area	Syowa Station	13. Depth of haul (m) *	45
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	2563
6. Sea depth (m)	50	16. Volume of water filtered (m ³)	4.08
7. Date & time (LMT) July 7 '82, 11:05-11:08		calculated by	Flow-meter
(GMT)		17. Wet weight (mg) per m ³	
8. Net used	Modified NIPR-I (100 μm)	18. Settling volume (cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	95
10. Duration of haul	3 min		

Proportion of Sample sorted	Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	2					2	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	46					46	11
Cyclopoida Copepoda	I-9-2	287					287	70
Harpacticoida Copepoda	I-9-3	6					6	1
10. Copepoda, nauplius	I 10	36					36	9
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	5					5	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	3					3	1
29. Radiolaria	I-29	2					2	+
Total		389		0		0	389	95

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-201

1. Sample No. <u>2303129</u>	11. Wire run out(m)
2. JARE	12. Wire angle(°)
3. Area	13. Depth of haul(m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth(m)	15. Flow-meter reading
7. Date & time(LMT)	16. Volume of water filtered(m ³)
(GMT)	calculated by
8. Net used	17. Wet weight(mg) per m ³
9. Method of haul	18. Settling volume(cc) per m ³
10. Duration of haul	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	11					11	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	81					81	16
Cyclopoida Copepoda			II-9-2	146			1460	289
Harpacticoida Copepoda	I-9-3	74					74	15
10. Copepoda, nauplius			II-10	60			600	119
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	8					8	2
22. Thaliacea							0	0
23. Egg	I-23	1					1	+
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	5					5	1
29. Radiolaria							0	0
Total		182		208		0	2242	444

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-202

1. Sample No. <u>2303130</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)※..... <u>1</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>GO 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>3102</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>4.93</u>
7. Date & time(LMT) <u>July 29 '82, 11:26-11:29</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-I(100 μm)</u>	18. Settling volume(cc) per m ³ ..
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>492</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	5					5	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	124					124	25
Cyclopoida Copepoda			II-9-2	171			1710	347
Harpacticoida Copepoda	I-9-3	44					44	9
10. Copepoda, nauplius			II-10	53			530	108
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	3					3	1
22. Thaliacea							0	0
23. Egg							0	0
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	5					5	1
29. Radiolaria	I-29	1					1	+
Total		182		224		0	2422	492

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-203

1. Sample No. 2303131	11. Wire run out(m)
2. JARE	12. Wire angle(')
3. Area	13. Depth of haul(m) *
4. Station No. 3	estimated by
5. Position	14. Flow-meter used
68° 59' 57" S	15. Flow-meter reading
39° 37' 16" E	16. Volume of water filtered(m ³)
6. Sea depth(m) 50	calculated by
7. Date & time(LMT) July 29 '82, 11:21-11:24	17. Wet weight(mg) per m ³
(GMT)	18. Settling volume(cc) per m ³
8. Net used	19. Total number per m ³
9. Method of haul .. Layered	
10. Duration of haul 3 min	

Proportion of Sample sorted	I/1 Sample [Sort I]		I/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	12					12	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	116					116	23
Cyclopoida Copepoda			II-9-2	126			1260	250
Harpacticoida Copepoda	I-9-3	29					29	6
10. Copepoda, nauplius			II-10	59			590	117
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	5					5	1
22. Thaliacea							0	0
23. Egg	I-23	17					17	3
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	4					4	1
29. Radiolaria							0	0
Total		184		185		0	2034	404

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-204

1. Sample No. 2303132	11. Wire run out(m)
2. JARE	12. Wire angle(')
3. Area	13. Depth of haul(m) *
4. Station No. 3	estimated by
5. Position	14. Flow-meter used
68° 59' 57" S	GO 2030
39° 37' 16" E	15. Flow-meter reading
6. Sea depth(m) 50	3199
7. Date & time(LMT) July 29 '82, 11:16-11:19	16. Volume of water filtered(m ³) 5.08
(GMT)	calculated by Flow-meter
8. Net used	17. Wet weight(mg) per m ³
Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³
9. Method of haul .. Layered	19. Total number per m ³
10. Duration of haul 3 min	343

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	11					11	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	88					88	17
Cyclopoida Copepoda			II-9-2	239			1195	235
Harpacticoida Copepoda	I-9-3	34					34	7
10. Copepoda, nauplius			II-10	78			390	77
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	7					7	1
22. Thaliacea							0	0
23. Egg	I-23	7					7	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	5					5	1
29. Radiolaria							0	0
Total		156		317		0	1741	343

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-205

1. Sample No.	2303133	11. Wire run out(m)	
2. JARE	23	12. Wire angle(')	
3. Area	Syowa Station	13. Depth of haul(m) *	10
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 18" E	15. Flow-meter reading	3150
6. Sea depth(m)	50	16. Volume of water filtered(m ³)	5
7. Date & time(LMT) July 29 '82, 11:11-11:14		calculated by	Flow-meter
(GMT)		17. Wet weight(mg) per m ³	
8. Net used	Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	784
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	2					2	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	107					107	21
Cyclopoida Copepoda			II-9-2	661			3305	661
Harpacticoida Copepoda	I-9-3	17					17	3
10. Copepoda, nauplius			II-10	92			460	92
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	18					18	4
22. Thaliacea							0	0
23. Egg	I-23	5					5	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	2					2	+
28. Unidentified forms	I-28	4					4	1
29. Radiolaria							0	0
Total		158		753		0	3921	784

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-208

1. Sample No. <u>2303134</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)※..... <u>20</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>88° 59' 57" S</u>	14. Flow-meter used..... <u>G0 2030</u>
<u>39° 37' 18" E</u>	15. Flow-meter reading..... <u>3204</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>5.09</u>
7. Date & time(LMT) <u>July 29 '82, 11:06-11:09</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-1(100 μm)</u>	18. Settling volume(cc) per m ³ ..
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>922</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	9					9	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	257					257	50
Cyclopoida Copepoda			II-9-2	781			3905	767
Harpacticoida Copepoda	I-9-3	21					21	4
10. Copepoda, nauplius			II-10	92			460	90
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	6					6	1
22. Thaliacea							0	0
23. Egg	I-23	26					26	5
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	5					5	1
29. Radiolaria							0	0
Total		328		873		0	4691	922

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-207

1. Sample No. 2303135
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) July 29 '82, 11:00-11:03
 (GMT)
 8. Net used Modified NIPR-I (100 μm)
 9. Method of haul .. Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 30
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3127
 16. Volume of water filtered (m³) 4.97
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 426

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	4					4	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	155					155	31
Cyclopoida Copepoda			II-9-2	321			1805	323
Harpacticoida Copepoda	I-9-3	9					9	2
10. Copepoda, nauplius			II-10	67			335	67
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	5					5	1
22. Thaliacea							0	0
23. Egg	I-23	3					3	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	1					1	+
29. Radiolaria							0	0
Total		178		388		0	2118	426

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-208

1. Sample No.	2303136	11. Wire run out(m)	
2. JARE	23	12. Wire angle(')	
3. Area	Syowa Station	13. Depth of haul(m) *	45
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	3188
6. Sea depth(m)	50	16. Volume of water filtered(m ³)	5.06
7. Date & time(LMT) July 29 '82, 10:54-10:57		calculated by	Flow-meter
(GMT)		17. Wet weight(mg) per m ³	
8. Net used	Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	180
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta							0	0
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	68					68	13
Cyclopoida Copepoda			II-9-2	352			704	139
Harpacticoida Copepoda	I-9-3	5					5	1
10. Copepoda, nauplius			II-10	61			122	24
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	2					2	+
22. Thaliacea							0	0
23. Egg	I-23	7					7	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	2					2	+
29. Radiolaria							0	0
Total		84		413		0	910	180

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-209

1. Sample No.	2303137	11. Wire run out (m)	
2. JARE	23	12. Wire angle (°)	
3. Area	Syowa Station	13. Depth of haul (m) *	0
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	3073
6. Sea depth (m)	50	16. Volume of water filtered (m ³)	4.88
7. Date & time (LMT)	Aug. 16 '82, 11:24-11:27	calculated by	Flow-meter
(GMT)		17. Wet weight (mg) per m ³	
8. Net used	Modified NIPR-I (100 μm)	18. Settling volume (cc) per m ³	
9. Method of haul	Layered	19. Total number per m ³	481
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	9					9	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	92					92	19
Cyclopoida Copepoda			II-9-2	148			1480	303
Harpacticoida Copepoda	I-9-3	85					85	17
10. Copepoda, nauplius			II-10	64			640	131
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	11					11	2
22. Thaliacea							0	0
23. Egg	I-23	5					5	1
24. Euphausiacea, nauplius							0	0
25. Nematoda	I-25	4					4	1
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	17					17	3
29. Radiolaria							0	0
Total		228		212		0	2346	481

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-210

1. Sample No. 2303138
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) Aug. 16 '82, 11:20-11:23
 (GMT)
 8. Net used Modified NIPR-1 (100 μ m)
 9. Method of haul .. Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 1
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3119
 16. Volume of water filtered (m³) 4.96
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³ ..
 19. Total number per m³ 481

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	2					2	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	84					84	17
Cyclopoida Copepoda			II-9-2	159			1590	321
Harpacticoida Copepoda	I-9-3	42					42	8
10. Copepoda, nauplius			II-10	63			630	127
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	3					3	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	3					3	1
22. Thaliacea							0	0
23. Egg	I-23	20					20	4
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	8					8	2
29. Radiolaria							0	0
Total		163		222		0	2353	481

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-211

1. Sample No. 2303139 11. Wire run out(m).....
 2. JARE..... 23 12. Wire angle(').....
 3. Area..... Syowa Station 13. Depth of haul(m)※..... 2
 4. Station No. 3 estimated by
 5. Position..... 68° 59' 57" S 14. Flow-meter used..... GO 2030
39° 37' 16" E 15. Flow-meter reading..... 2980
 6. Sea depth(m).... 50 16. Volume of water filtered(m³) 4.74
 7. Date & time(LMT) Aug. 16 '82, 11:16-11:19 calculated by Flow-meter
 (GMT) 17. Wet weight(mg) per m³.....
 8. Net used..... Modified NIPR-I(100μm) 18. Settling volume(cc) per m³..
 9. Method of haul.. Layered 19. Total number per m³..... 367
 10. Duration of haul 3 min

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	7					7	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	104					104	22
Cyclopoida Copepoda			II-9-2	217			1085	229
Harpacticoida Copepoda	I-9-3	17					17	4
10. Copepoda, nauplius			II-10	102			510	108
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	5					5	1
22. Thaliacea							0	0
23. Egg							0	0
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	3					3	1
28. Unidentified forms	I-28	4					4	1
29. Radiolaria							0	0
Total		141		319		0	1738	367

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-212

1. Sample No. 2303140	11. Wire run out(m).....
2. JARE..... 23	12. Wire angle(').....
3. Area..... Syowa Station	13. Depth of haul(m)※..... 5
4. Station No. 3	estimated by
5. Position..... 68° 59' 57" S	14. Flow-meter used..... GO 2030
39° 37' 16" E	15. Flow-meter reading..... 3229
6. Sea depth(m).... 50	16. Volume of water filtered(m ³) 5.13
7. Date & time(LMT) Aug. 16 '82, 11:12-11:15	calculated by Flow-meter
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... Modified NIPR-1(100 μm)	18. Settling volume(cc) per m ³ ..
9. Method of haul.. Layered	19. Total number per m ³ 408
10. Duration of haul 3 min	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	5					5	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	92					92	18
Cyclopoida Copepoda			II-9-2	132			1320	257
Harpacticoida Copepoda	I-9-3	21					21	4
10. Copepoda, nauplius			II-10	63			630	123
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	6					6	1
22. Thaliacea							0	0
23. Egg	I-23	12					12	2
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	8					8	2
29. Radiolaria							0	0
Total		144		195		0	2094	408

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-213

1. Sample No. <u>2303141</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT)	16. Volume of water filtered (m ³)
(GMT)	calculated by
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul	18. Settling volume (cc) per m ³
10. Duration of haul	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	2					2	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	3					3	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	130					130	26
Cyclopoida Copepoda			II-9-2	268			2680	531
Harpacticoida Copepoda	I-9-3	17					17	3
10. Copepoda, nauplius			II-10	73			730	145
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	10					10	2
22. Thaliacea							0	0
23. Egg							0	0
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	4					4	1
28. Unidentified forms	I-28	3					3	1
29. Radiolaria							0	0
Total		171		341			0	3581

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-214

1. Sample No. <u>2303142</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT) Aug. 16 '82, 11:02-11:05	16. Volume of water filtered (m ³)
(GMT)	calculated by <u>Flow-meter</u>
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul	18. Settling volume (cc) per m ³
10. Duration of haul <u>3 min</u>	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	8					8	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	152					152	31
Cyclopoida Copepoda			II-9-2	174			1740	360
Harpacticoida Copepoda	I-9-3	15					15	3
10. Copepoda, nauplius			II-10	52			520	108
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	5					5	1
22. Thaliacea							0	0
23. Egg	I-23	22					22	5
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	1					1	+
29. Radiolaria							0	0
Total		205		226		0	2465	510

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-215

1. Sample No. <u>2303143</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	30
5. Position	estimated by
6. Sea depth (m)	14. Flow-meter used
7. Date & time (LMT) <u>Aug. 16 '82, 10:56-10:59</u>	15. Flow-meter reading
(GMT)	16. Volume of water filtered (m ³)
8. Net used	4.19
9. Method of haul ..	17. Wet weight (mg) per m ³
10. Duration of haul <u>3 min</u>	18. Settling volume (cc) per m ³ ..
	19. Total number per m ³
	263

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	4					4	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	144					144	34
Cyclopoida Copepoda			II-9-2	405			410	193
Harpacticoida Copepoda	I-9-3	8					8	2
10. Copepoda, nauplius			II-10	58			116	28
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	17					17	4
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		175		463		0	1101	263

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-216

1. Sample No. 2303144	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No. 3	45
5. Position	estimated by
68° 59' 57" S	14. Flow-meter used
39° 37' 16" E	GO 2030
6. Sea depth (m) 50	15. Flow-meter reading
7. Date & time (LMT) Aug. 18 '82, 10:49-10:52	3090
(GMT)	16. Volume of water filtered (m ³) 4.91
8. Net used	calculated by Flow-meter
Modified NIPR-I (100 μm)	17. Wet weight (mg) per m ³
9. Method of haul .. Layered	18. Settling volume (cc) per m ³ ..
10. Duration of haul 3 min	19. Total number per m ³
	176

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	3					3	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	3					3	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	105					105	21
Cyclopoida Copepoda			II-9-2	305			610	124
Harpacticoida Copepoda	I-9-3	19					19	4
10. Copepoda, nauplius			II-10	47			94	19
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	2					2	+
22. Thaliacea							0	0
23. Egg	I-23	25					25	5
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	3					3	1
29. Radiolaria							0	0
Total		160		352		0	864	176

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-217

1. Sample No. 2303145 11. Wire run out(m)..... _____
 2. JARE..... 23 12. Wire angle(')..... _____
 3. Area..... Syowa Station 13. Depth of haul(m)※..... 0
 4. Station No. 3 estimated by _____
 5. Position..... 68° 59' 57" S 14. Flow-meter used..... GO 2030
39° 37' 16" E 15. Flow-meter reading..... 3019
 6. Sea depth(m).... 50 16. Volume of water filtered(m³) 4.8
 7. Date & time(LMT) Sep. 2 '82, 15:43-15:46 calculated by Flow-meter
 (GMT) 17. Wet weight(mg) per m³..... _____
 8. Net used..... Modified NIPR-I(100 μm) 18. Settling volume(cc) per m³.. _____
 9. Method of haul.. Layered 19. Total number per m³..... 329
 10. Duration of haul 3 min

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³	
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial			
1. Foraminifera							0	0	
2. Siphonophora							0	0	
3. Other medusae							0	0	
4. Ctenophora							0	0	
5. Chaetognatha							0	0	
6. Polychaeta	I-6	20					20	4	
7. Cladocera							0	0	
8. Ostracoda							0	0	
9. Calanoida Copepoda	I-9-1	61					81	13	
Cyclopoida Copepoda			II-9-2	160			800	167	
Harpacticoida Copepoda	I-9-3	58					58	12	
10. Copepoda, nauplius			II-10	109			545	114	
11. Cumacea							0	0	
12. Isopoda							0	0	
13. Amphipoda							0	0	
14. Mysidacea							0	0	
15. Euphausiacea							0	0	
16. Decapoda							0	0	
17. Other Crustacea							0	0	
18. Heteropoda/Pteropoda	I-18	3					3	1	
19. Cephalopoda							0	0	
20. Other Mollusca							0	0	
21. Appendicularia	I-21	6					6	1	
22. Thaliacea							0	0	
23. Egg	I-23	25					25	5	
24. Euphausiacea, nauplius							0	0	
25. Nematoda	I-25	3					3	1	
26. Fish larvae							0	0	
27. Planktonic larval forms							0	0	
28. Unidentified forms	I-28	52					52	11	
29. Radiolaria							0	0	
Total		228		269			0	1573	329

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-218

1. Sample No. 2303146	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No. 3	estimated by
5. Position	14. Flow-meter used
68° 59' 57" S	GO 2030
39° 37' 16" E	15. Flow-meter reading
6. Sea depth (m) 50	3135
7. Date & time (LMT) Sep. 2 '82, 15:39-15:42	16. Volume of water filtered (m ³) 4.98
(GMT)	calculated by Flow-meter
8. Net used	17. Wet weight (mg) per m ³
Modified NIPR-I (100 μm)	18. Settling volume (cc) per m ³ ..
9. Method of haul .. Layered	19. Total number per m ³
10. Duration of haul 3 min	313

Proportion of Sample sorted	I/I Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	7					7	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	63					63	13
Cyclopoida Copepoda	I-9-2	1112					1112	223
Harpacticoida Copepoda	I-9-3	51					51	10
10. Copepoda, nauplius	I-10	291					291	58
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	26					26	5
22. Thaliacea							0	0
23. Egg	I-23	2					2	+
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	3					3	1
28. Unidentified forms	I-28	4					4	1
29. Radiolaria							0	0
Total		1560		0		0	1560	313

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-219

1. Sample No.....	2303147	11. Wire run out(m).....	
2. JARE.....	23	12. Wire angle(').....	
3. Area.....	Syowa Station	13. Depth of haul(m)*.....	2
4. Station No.....	3	estimated by	
5. Position.....	68° 59' 57" S 39° 37' 16" E	14. Flow-meter used.....	GO 2030
6. Sea depth(m)....	50	15. Flow-meter reading.....	3283
7. Date & time(LMT)	Sep. 2 '82, 15:34-15:37	16. Volume of water filtered(m ³)	5.21
(GMT)		17. Wet weight(mg) per m ³	calculated by Flow-meter
8. Net used.....	Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³ ..	
9. Method of haul..	Layered	19. Total number per m ³	347
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	9					9	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	77					77	15
Cyclopoida Copepoda			II-9-2	233			1165	224
Harpacticoida Copepoda	I-9-3	47					47	9
10. Copepoda, nauplius			II-10	90			450	86
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	3					3	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	12					12	2
22. Thaliacea							0	0
23. Egg	I-23	37					37	7
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	2					2	+
28. Unidentified forms	I-28	5					5	1
29. Radiolaria							0	0
Total		192		323		0	1807	347

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-220

1. Sample No. 2303148 11. Wire run out(m) _____
 2. JARE 23 12. Wire angle(') _____
 3. Area Syowa Station 13. Depth of haul(m) * 5
 4. Station No. 3 estimated by _____
 5. Position 68° 59' 57" S 14. Flow-meter used GO 2030
 39° 37' 16" E 15. Flow-meter reading 3004
 6. Sea depth(m) 50 16. Volume of water filtered(m³) 4.78
 7. Date & time(LMT) Sep. 2 '82, 15:29-15:32 calculated by Flow-meter
 (GMT) _____
 8. Net used Modified NIPR-I(100 μm) 17. Wet weight(mg) per m³ _____
 9. Method of haul Layered 18. Settling volume(cc) per m³ _____
 10. Duration of haul 3 min 19. Total number per m³ 280

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	2					2	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	6					6	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	34					34	7
Cyclopoida Copepoda			II-9-2	178			890	186
Harpacticoida Copepoda	I-9-3	69					69	14
10. Copepoda, nauplius			II-10	56			280	59
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	10					10	2
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	3					3	1
22. Thaliacea							0	0
23. Egg	I-23	29					29	6
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	17					17	4
29. Radiolaria							0	0
Total		170		234		0	1340	280

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-221

1. Sample No. 2303149
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth(m) 50
 7. Date & time(LMT) Sep. 2 '82, 15:24-15:27
 (GMT)
 8. Net used Modified NIPR-I(100 μm)
 9. Method of haul .. Layered
 10. Duration of haul 3 min
 11. Wire run out(m)
 12. Wire angle(°)
 13. Depth of haul(m) * 10
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3154
 16. Volume of water filtered(m³) 5.01
 calculated by Flow-meter
 17. Wet weight(mg) per m³
 18. Settling volume(cc) per m³
 19. Total number per m³ 433

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	18					18	4
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	93					93	19
Cyclopoida Copepoda			II-9-2	140			1400	279
Harpacticoida Copepoda	I-9-3	35					35	7
10. Copepoda, nauplius			II-10	56			560	112
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	12					12	2
22. Thaliacea							0	0
23. Egg	I-23	40					40	8
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	10					10	2
29. Radiolaria							0	0
Total		211		198		0	2171	433

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-222

1. Sample No.	2303150	11. Wire run out (m)	
2. JARE	23	12. Wire angle (°)	
3. Area	Syowa Station	13. Depth of haul (m) *	20
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	3250
6. Sea depth (m)	50	16. Volume of water filtered (m ³)	5.16
7. Date & time (LMT)	Sep. 2 '82, 15:19-15:22	calculated by Flow-meter	
	(GMT)	17. Wet weight (mg) per m ³	
8. Net used	Modified NIPR-I (100 μm)	18. Settling volume (cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	574
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	27					27	5
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	300					300	58
Cyclopoida Copepoda			II-9-2	208			2080	403
Harpacticoida Copepoda	I-9-3	18					18	3
10. Copepoda, nauplius			II-10	47			470	91
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	3					3	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	12					12	2
22. Thaliacea							0	0
23. Egg	I-23	53					53	10
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	4					4	1
29. Radiolaria							0	0
Total		417		255		0	2967	574

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-223

1. Sample No. <u>2303151</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT)	16. Volume of water filtered (m ³)
(GMT)	calculated by
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul	18. Settling volume (cc) per m ³
10. Duration of haul	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		3/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	2					2	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	196					196	41
Cyclopoida Copepoda			II-9-2	349			1163	243
Harpacticoida Copepoda	I-9-3	13					13	3
10. Copepoda, nauplius			II-10	66			220	46
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	5					5	1
22. Thaliacea							0	0
23. Egg	I-23	80					80	17
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	2					2	+
29. Radiolaria							0	0
Total		298		415		0	1681	352

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-224

1. Sample No. 2303152	11. Wire run out(m).....
2. JARE..... 23	12. Wire angle(').....
3. Area..... Syowa Station	13. Depth of haul(m)※..... 45
4. Station No. 3	estimated by
5. Position..... 68° 59' 57" S	14. Flow-meter used..... GO 2030
39° 37' 16" E	15. Flow-meter reading..... 3077
6. Sea depth(m).... 50	16. Volume of water filtered(m ³) 4.89
7. Date & time(LMT) Sep. 2 '82, 15:05-15:08	calculated by Flow-meter
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... Modified NIPR-1(100 μm)	18. Settling volume(cc) per m ³ ..
9. Method of haul.. Layered	19. Total number per m ³ 121
10. Duration of haul 3 min	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	1					1	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	73					73	15
Cyclopoida Copepoda			II-9-2	198			396	81
Harpacticoida Copepoda	I-9-3	3					3	1
10. Copepoda, nauplius			II-10	52			104	21
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda			II-18	1			2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	9					9	2
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		88		251		0	590	121

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-225

1. Sample No.	2303153	11. Wire run out(m)	
2. JARE	23	12. Wire angle(')	
3. Area	Syowa Station	13. Depth of haul(m) *	0
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	3205
6. Sea depth(m)	50	16. Volume of water filtered(m ³)	5.09
7. Date & time(LMT)	Sep. 16 '82, 11:24-11:27	calculated by	Flow-meter
(GMT)		17. Wet weight(mg) per m ³	
8. Net used	Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	243
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	1					1	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	26					26	5
Cyclopoida Copepoda			II-9-2	124			620	122
Harpacticoida Copepoda	I-9-3	50					50	10
10. Copepoda, nauplius			II-10	105			525	103
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	2					2	+
22. Thaliacea							0	0
23. Egg	I-23	3					3	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	2					2	+
28. Unidentified forms	I-28	5					5	1
29. Radiolaria							0	0
Total		91		229		0	1236	243

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-226

1. Sample No. 2303154 11. Wire run out(m).....
 2. JARE..... 23 12. Wire angle(').....
 3. Area..... Syowa Station 13. Depth of haul(m)※..... 1
 4. Station No. 3 estimated by
 5. Position..... 68° 59' 57" S 14. Flow-meter used..... GO 2030
39° 37' 16" E 15. Flow-meter reading..... 3218
 6. Sea depth(m).... 50 16. Volume of water filtered(m³) 5.11
 7. Date & time(LMT) Sep. 16 '82, 11:20-11:23 calculated by Flow-meter
 (GMT) 17. Wet weight(mg) per m³.....
 8. Net used..... Modified NIPR-1(100 μm) 18. Settling volume(cc) per m³..
 9. Method of haul.. Layered 19. Total number per m³..... 314
 10. Duration of haul 3 min

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	2					2	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	62					62	12
Cyclopoida Copepoda			II-9-2	182			910	178
Harpacticoida Copepoda	I-9-3	48					48	9
10. Copepoda, nauplius			II-10	112			560	110
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	4					4	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	4					4	1
22. Thaliacea							0	0
23. Egg	I-23	9					9	2
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	5					5	1
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		135		294		0	1605	314

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-227

1. Sample No. 2303155
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) Sep. 16 '82, 11:16-11:19
 (GMT)
 8. Net used Modified NIPR-1(100 μm)
 9. Method of haul .. Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 2
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3239
 16. Volume of water filtered (m³) 5.14
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³ ..
 19. Total number per m³ 378

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	5					5	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	122					122	24
Cyclopoida Copepoda			II-9-2	106			1060	206
Harpacticoida Copepoda	I-9-3	51					51	10
10. Copepoda, nauplius			II-10	67			670	130
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	17					17	3
22. Thaliacea							0	0
23. Egg	I-23	13					13	3
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	2					2	+
28. Unidentified forms	I-28	4					4	1
29. Radiolaria							0	0
Total		215		173		0	1945	378

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-228

1. Sample No. <u>2303156</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)※..... <u>5</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>GO 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>2858</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>4.55</u>
7. Date & time(LMT) <u>Sep. 16 '82, 11:11-11:14</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-I(100 μm)</u>	18. Settling volume(cc) per m ³ ..
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>242</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	1					1	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	86					86	19
Cyclopoida Copepoda			II-9-2	139			695	153
Harpacticoida Copepoda	I-9-3	24					24	5
10. Copepoda, nauplius			II-10	57			285	63
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	5					5	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	2					2	+
22. Thaliacea							0	0
23. Egg	I-23	2					2	+
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	2					2	+
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		122		196		0	1102	242

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-229

1. Sample No. <u>2303157</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)※..... <u>10</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>GO 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>3065</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>4.87</u>
7. Date & time(LMT) <u>Sep. 16 '82, 11:06-11:09</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-I(100μm)</u>	18. Settling volume(cc) per m ³ ..
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>510</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	10					10	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	276					276	57
Cyclopoida Copepoda			II-9-2	366			1830	376
Harpacticoida Copepoda	I-9-3	18					18	4
10. Copepoda, nauplius			II-10	66			330	68
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	5					5	1
22. Thaliacea							0	0
23. Egg	I-23	4					4	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	4					4	1
29. Radiolaria							0	0
Total		318		432		0	2478	510

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-230

1. Sample No. <u>2303158</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	20
5. Position	estimated by
68° 59' 57" S	14. Flow-meter used
39° 37' 16" E	15. Flow-meter reading
6. Sea depth (m)	GO 2030
50	16. Volume of water filtered (m ³)
7. Date & time (LMT) Sep. 16 '82, 11:01-11:04	3225
(GMT)	17. Wet weight (mg) per m ³
8. Net used	5.12
Modified NIPR-1 (100 μm)	18. Settling volume (cc) per m ³
9. Method of haul ..	calculated by Flow-meter
Layered	19. Total number per m ³
10. Duration of haul 3 min	292

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	23					23	4
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	215					215	42
Cyclopoida Copepoda			II-9-2	170			850	166
Harpacticoida Copepoda	I-9-3	6					6	1
10. Copepoda, nauplius			II-10	53			265	52
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	7					7	1
22. Thaliacea							0	0
23. Egg	I-23	120					120	23
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	6					6	1
29. Radiolaria							0	0
Total		378		223		0	1493	292

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-232

1. Sample No. 2303180	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No. 3	45
5. Position	estimated by
68° 59' 57" S	14. Flow-meter used
39° 37' 16" E	15. Flow-meter reading
6. Sea depth (m) 50	16. Volume of water filtered (m ³)
7. Date & time (LMT) Sep. 18 '82, 10:49-10:52	17. Wet weight (mg) per m ³
(GMT)	calculated by Flow-meter
8. Net used	18. Settling volume (cc) per m ³
Modified NIPR-I (100 μm)	19. Total number per m ³
9. Method of haul .. Layered	314
10. Duration of haul 3 min	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta							0	0
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	185					185	37
Cyclopoida Copepoda	I-9-2	267					267	54
Harpacticoida Copepoda	I-9-3	6					6	1
10. Copepoda, nauplius	I-10	43					43	9
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg			II-23	105			1050	210
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	13					13	3
29. Radiolaria							0	0
Total		516		105		0	1566	314

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-233

1. Sample No.	<u>2303161</u>	11. Wire run out (m)	_____
2. JARE	<u>23</u>	12. Wire angle (°)	_____
3. Area	<u>Syowa Station</u>	13. Depth of haul (m) *	<u>0</u>
4. Station No.	<u>3</u>	estimated by	_____
5. Position	<u>68° 59' 57" S</u>	14. Flow-meter used	<u>GO 2030</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading	<u>3101</u>
6. Sea depth (m)	<u>50</u>	16. Volume of water filtered (m ³)	<u>4.93</u>
7. Date & time (LMT)	<u>Sep. 16 '82, 17:52-17:55</u>	calculated by	<u>Flow-meter</u>
	(GMT)	17. Wet weight (mg) per m ³	_____
8. Net used	<u>Modified NIPR-I (100 μm)</u>	18. Settling volume (cc) per m ³	_____
9. Method of haul	<u>Layered</u>	19. Total number per m ³	<u>355</u>
10. Duration of haul	<u>3 min</u>		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	3					3	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	180					180	37
Cyclopoida Copepoda			II-9-2	217			1085	220
Harpacticoida Copepoda	I-9-3	35					35	7
10. Copepoda, nauplius			II-10	77			385	78
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	4					4	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	5					5	1
22. Thaliacea							0	0
23. Egg	I-23	42					42	9
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	2					2	+
28. Unidentified forms	I-28	3					3	1
29. Radiolaria							0	0
Total		274		294		0	1744	355

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-235

1. Sample No. 2303163
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) Sep. 16 '82, 17:43-17:46
 (GMT)
 8. Net used Modified NIPR-I (100 μm)
 9. Method of haul Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 2
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3153
 16. Volume of water filtered (m³) 5.01
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 306

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	5					5	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	177					177	35
Cyclopoida Copepoda			II-9-2	204			1020	204
Harpacticoida Copepoda	I-9-3	33					33	7
10. Copepoda, nauplius			II-10	53			265	53
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	10					10	2
22. Thaliacea							0	0
23. Egg	I-23	13					13	3
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	4					4	1
29. Radiolaria							0	0
Total		244		257		0	1529	306

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-236

1. Sample No.	2303164	11. Wire run out(m)	
2. JARE	23	12. Wire angle(')	
3. Area	Syowa Station	13. Depth of haul(m) *	5
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	3176
6. Sea depth(m)	50	16. Volume of water filtered(m ³)	5.05
7. Date & time(LMT)	Sep. 16 '82, 17:39-17:42	calculated by	Flow-meter
	(GMT)	17. Wet weight(mg) per m ³	
8. Net used	Modified NIPR-1(100 μm)	18. Settling volume(cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	361
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	11					11	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	166					166	33
Cyclopoida Copepoda			II-9-2	250			1250	248
Harpacticoida Copepoda	I-9-3	14					14	3
10. Copepoda, nauplius			II-10	61			305	60
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	3					3	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	5					5	1
22. Thaliacea							0	0
23. Egg	I-23	62					62	12
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	2					2	+
28. Unidentified forms	I-28	4					4	1
29. Radiolaria							0	0
Total		268		311		0	1823	361

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-237

1. Sample No. <u>2303165</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
	15. Flow-meter reading
6. Sea depth (m)	16. Volume of water filtered (m ³)
7. Date & time (LMT) <u>Sep. 16 '82, 17:34-17:37</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight (mg) per m ³
8. Net used	18. Settling volume (cc) per m ³
9. Method of haul ..	19. Total number per m ³
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	1			5	1
2. Siphonophora							0	0
3. Other medusae	I-3	1					1	+
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	36					36	7
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	282					282	58
Cyclopoida Copepoda			II-9-2	334			1670	344
Harpacticoida Copepoda	I-9-3	7					7	1
10. Copepoda, nauplius			II-10	54			270	56
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	8					8	2
22. Thaliacea							0	0
23. Egg	I-23	37					37	8
24. Euphausiacea, nauplius	I-24	1					1	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	6					6	1
29. Radiolaria							0	0
Total		380		389		0	2325	479

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-238

1. Sample No. 2303166	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No. 3	estimated by
5. Position	14. Flow-meter used
68° 59' 57" S	GO 2030
39° 37' 16" E	15. Flow-meter reading
6. Sea depth (m) 50	2733
7. Date & time (LMT) Sep. 16 '82, 17:29-17:32	16. Volume of water filtered (m ³) 4.35
(GMT)	calculated by Flow-meter
8. Net used	17. Wet weight (mg) per m ³
Modified NIPR-I (100 μm)	18. Settling volume (cc) per m ³ ..
9. Method of haul .. Layered	19. Total number per m ³
10. Duration of haul 3 min	303

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	1					1	+
6. Polychaeta	I-6	10					10	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	200					200	46
Cyclopoida Copepoda			II-9-2	469			938	216
Harpacticoida Copepoda	I-9-3	7					7	2
10. Copepoda, nauplius			II-10	51			102	23
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	5					5	1
22. Thaliacea							0	0
23. Egg	I-23	49					49	11
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	2					2	+
29. Radiolaria							0	0
Total		276		520		0	1318	303

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-239

1. Sample No. <u>2303167</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)※..... <u>30</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>GO 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>3129</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>4.97</u>
7. Date & time(LMT) <u>Sep. 16 '82, 17:23-17:26</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-I(100μm)</u>	18. Settling volume(cc) per m ³ ..
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>357</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora	I-2	1					1	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	8					8	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	282					282	57
Cyclopoida Copepoda			II-9-2	632			1264	254
Harpacticoida Copepoda	I-9-3	4					4	1
10. Copepoda, nauplius			II-10	67			134	27
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	12					12	2
22. Thaliacea							0	0
23. Egg	I-23	66					66	13
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	3					3	1
29. Radiolaria							0	0
Total		377		699		0	1775	357

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-240

1. Sample No. 2303168	11. Wire run out(■)
2. JARE	12. Wire angle(')
3. Area	13. Depth of haul(■) *
4. Station No. 3	45
5. Position	estimated by
68° 59' 57" S	14. Flow-meter used
39° 37' 16" E	15. Flow-meter reading
6. Sea depth(■) 50	GO 2030
7. Date & time(LMT) Sep. 16 '82, 17:15-17:18	16. Volume of water filtered(■3)
(GMT)	3094
8. Net used	17. Wet weight(mg) per ■3
Modified NIPR-I(100 μ■)	calculated by Flow-meter
9. Method of haul .. Layered	18. Settling volume(cc) per ■3 ..
10. Duration of haul 3 min	19. Total number per ■3
	113

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per ■3
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	2					2	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	100					100	20
Cyclopoida Copepoda			II-9-2	139			278	57
Harpacticoida Copepoda	I-9-3	6					6	1
10. Copepoda, nauplius	I-10	41					41	8
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	124					124	25
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	2					2	+
29. Radiolaria							0	0
Total		277		139		0	555	113

+ : less than 1 indiv./■3

* Depth from ■ beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-241

1. Sample No.	2303169	11. Wire run out (m)	
2. JARE	23	12. Wire angle (°)	
3. Area	Syowa Station	13. Depth of haul (m) *	0
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	3133
6. Sea depth (m)	50	16. Volume of water filtered (m ³)	4.98
7. Date & time (LMT)	Sep. 16 '82, 23:15-23:18	calculated by	Flow-meter
(GMT)		17. Wet weight (mg) per m ³	
8. Net used	Modified NIPR-I (100 μm)	18. Settling volume (cc) per m ³	
9. Method of haul	Layered	19. Total number per m ³	527
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	3					3	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	14					14	3
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	158					158	32
Cyclopoida Copepoda			II-9-2	160			1600	321
Harpacticoida Copepoda	I-9-3	43					43	9
10. Copepoda, nauplius			II-10	64			640	129
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	14					14	3
22. Thaliacea							0	0
23. Egg	I-23	48					48	10
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	3					3	1
28. Unidentified forms	I-28	90					90	18
29. Radiolaria							0	0
Total		375		224		0	2615	527

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-242

1. Sample No.	2303170	11. Wire run out (m)	
2. JARE	23	12. Wire angle (°)	
3. Area	Syowa Station	13. Depth of haul (m) *	1
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	3160
6. Sea depth (m)	50	16. Volume of water filtered (m ³)	5.02
7. Date & time (LMT) Sep. 16 '82, 23:11-23:14		calculated by	Flow-meter
(GMT)		17. Wet weight (mg) per m ³	
8. Net used	Modified NIPR-I (100 μm)	18. Settling volume (cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	410
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	12					12	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	160					160	32
Cyclopoida Copepoda			II-9-2	274			1370	273
Harpacticoida Copepoda	I-9-3	22					22	4
10. Copepoda, nauplius			II-10	68			340	68
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	17					17	3
22. Thaliacea							0	0
23. Egg	I-23	45					45	9
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	2					2	+
28. Unidentified forms	I-28	88					88	18
29. Radiolaria							0	0
Total		348		342		0	2058	410

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-243

1. Sample No. 2303171
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) Sep. 16 '82, 23:06-23:09
 (GMT)
 8. Net used Modified NIPR-I (100 μm)
 9. Method of haul .. Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 2
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3167
 16. Volume of water filtered (m³) 5.03
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 460

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	13					13	3
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	171					171	34
Cyclopoida Copepoda			II-9-2	331			1655	329
Harpacticoida Copepoda	I-9-3	23					23	5
10. Copepoda, nauplius			II-10	63			315	63
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	5					5	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	10					10	2
22. Thaliacea							0	0
23. Egg	I-23	74					74	15
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	3					3	1
28. Unidentified forms	I-28	34					34	7
29. Radiolaria							0	0
Total		334		394		0	2304	460

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-244

1. Sample No.	2303172	11. Wire run out(m)	
2. JARE	23	12. Wire angle(')	
3. Area	Syowa Station	13. Depth of haul(m)※	5
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	G0 2030
	39° 37' 16" E	15. Flow-meter reading	3070
6. Sea depth(m)	50	16. Volume of water filtered(m ³)	4.88
7. Date & time(LMT) Sep. 16 '82, 23:02-23:05		calculated by	Flow-meter
(GMT)		17. Wet weight(mg) per m ³	
8. Net used	Modified NIPR-I(100μm)	18. Settling volume(cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	365
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³	
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial			
1. Foraminifera	I-1	1					1	+	
2. Siphonophora							0	0	
3. Other medusae							0	0	
4. Ctenophora							0	0	
5. Chaetognatha							0	0	
6. Polychaeta	I-6	9					9	2	
7. Cladocera							0	0	
8. Ostracoda							0	0	
9. Calanoida Copepoda	I-9-1	197					197	40	
Cyclopoida Copepoda			II-9-2	226			1130	232	
Harpacticoida Copepoda	I-9-3	17					17	3	
10. Copepoda, nauplius			II-10	72			360	74	
11. Cumacea							0	0	
12. Isopoda							0	0	
13. Amphipoda							0	0	
14. Mysidacea							0	0	
15. Euphausiacea							0	0	
16. Decapoda							0	0	
17. Other Crustacea							0	0	
18. Heteropoda/Pteropoda							0	0	
19. Cephalopoda							0	0	
20. Other Mollusca							0	0	
21. Appendicularia	I-21	5					5	1	
22. Thaliacea							0	0	
23. Egg	I-23	49					49	10	
24. Euphausiacea, nauplius							0	0	
25. Nematoda							0	0	
26. Fish larvae							0	0	
27. Planktonic larval forms							0	0	
28. Unidentified forms	I-28	14					14	3	
29. Radiolaria							0	0	
Total		292		298			0	1782	365

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-245

1. Sample No. 2303173	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT)	16. Volume of water filtered (m ³)
(GMT)	calculated by
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul	18. Settling volume (cc) per m ³
10. Duration of haul	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	1					1	+
6. Polychaeta	I-6	5					5	1
7. Cladocera							0	0
8. Ostracoda	I-8	1					1	+
9. Calanoida Copepoda	I-9-1	235					235	48
Cyclopoida Copepoda			II-9-2	243			1215	248
Harpacticoida Copepoda	I-9-3	14					14	3
10. Copepoda, nauplius			II-10	47			235	48
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	9					9	2
22. Thaliacea							0	0
23. Egg	I-23	25					25	5
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	2					2	+
29. Radiolaria							0	0
Total		293		290		0	1743	356

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-246

1. Sample No.	2303174	11. Wire run out(m)	
2. JARE	23	12. Wire angle(')	
3. Area	Syowa Station	13. Depth of haul(m) *	20
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	2947
6. Sea depth(m)	50	16. Volume of water filtered(m ³)	4.69
7. Date & time(LMT)	Sep. 16 '82, 22:52-22:55	calculated by Flow-meter	
	(GMT)	17. Wet weight(mg) per m ³	
8. Net used	Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	344
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	11					11	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	288					288	61
Cyclopoida Copepoda			II-9-2	553			1106	236
Harpacticoida Copepoda	I-9-3	7					7	1
10. Copepoda, nauplius			II-10	71			142	30
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	11					11	2
22. Thaliacea							0	0
23. Egg	I-23	39					39	8
24. Euphausiacea, nauplius	I-24	1					1	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	4					4	1
28. Unidentified forms	I-28	5					5	1
29. Radiolaria							0	0
Total		366		624		0	1614	344

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-247

1. Sample No. 2303175	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No. 3	estimated by
5. Position	14. Flow-meter used
68° 59' 57" S	GO 2030
39° 37' 16" E	15. Flow-meter reading
6. Sea depth (m) 50	2827
7. Date & time (LMT) Sep. 16 '82, 22:46-22:49	16. Volume of water filtered (m ³)
(GMT)	4.5
8. Net used	17. Wet weight (mg) per m ³
Modified NIPR-I (100 μm)	calculated by Flow-meter
9. Method of haul .. Layered	18. Settling volume (cc) per m ³ ..
10. Duration of haul 3 min	19. Total number per m ³
	266

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	1					1	+
6. Polychaeta	I-6	15					15	3
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	306					306	68
Cyclopoida Copepoda			II-9-2	374			748	166
Harpacticoida Copepoda	I-9-3	7					7	2
10. Copepoda, nauplius			II-10	48			96	21
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	4					4	1
22. Thaliacea							0	0
23. Egg	I-23	16					16	4
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	5					5	1
29. Radiolaria							0	0
Total		355		422		0	1199	266

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-248

1. Sample No. 2303176	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No. 3	estimated by
5. Position	14. Flow-meter used
68° 59' 57" S	GO 2030
39° 37' 16" E	15. Flow-meter reading
6. Sea depth (m) 50	3050
7. Date & time (LMT) Sep. 16 '82, 22:39-22:42	16. Volume of water filtered (m ³) 4.85
(GMT)	calculated by Flow-meter
8. Net used	17. Wet weight (mg) per m ³
Modified NIPR-I (100 μm)	18. Settling volume (cc) per m ³
9. Method of haul .. Layered	19. Total number per m ³
10. Duration of haul 3 min	94

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	3					3	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	105					105	22
Cyclopoida Copepoda	I-9-2	294					294	61
Harpacticoida Copepoda	I-9-3	6					6	1
10. Copepoda, nauplius	I-10	29					29	6
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	2					2	+
22. Thaliacea							0	0
23. Egg	I-23	14					14	3
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	1					1	+
29. Radiolaria							0	0
Total		455		0		0	455	94

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-249

1. Sample No. <u>2303177</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT)	16. Volume of water filtered (m ³)
(GMT)	calculated by <u>Flow-meter</u>
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul	18. Settling volume (cc) per m ³
10. Duration of haul	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora	I-2	1					1	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	13					13	3
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	284					284	57
Cyclopoida Copepoda			II-9-2	187			1870	374
Harpacticoida Copepoda	I-9-3	53					53	11
10. Copepoda, nauplius			II-10	48			480	96
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	5					5	1
22. Thaliacea							0	0
23. Egg	I-23	28					28	6
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	5					5	1
29. Radiolaria							0	0
Total		389		235		0	2739	549

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-250

1. Sample No. <u>2303178</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
	15. Flow-meter reading
6. Sea depth (m)	16. Volume of water filtered (m ³)
7. Date & time (LMT) <u>Sep. 17 '82, 07:27-07:30</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight (mg) per m ³
8. Net used	18. Settling volume (cc) per m ³
9. Method of haul ..	19. Total number per m ³
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	27					27	5
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	324					324	65
Cyclopoida Copepoda			II-9-2	230			2300	458
Harpacticoida Copepoda	I-9-3	33					33	7
10. Copepoda, nauplius			II-10	52			520	104
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	16					16	3
22. Thaliacea							0	0
23. Egg	I-23	94					94	19
24. Euphausiacea, nauplius	I-24	1					1	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	5					5	1
28. Unidentified forms	I-28	7					7	1
29. Radiolaria							0	0
Total		508		282		0	3328	663

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-251

1. Sample No. <u>2303179</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)*..... <u>2</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>GO 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>3176</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>5.05</u>
7. Date & time(LMT) <u>Sep. 17 '82, 07:23-07:26</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-I(100μm)</u>	18. Settling volume(cc) per m ³ ...
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>502</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	30					30	6
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	258					258	51
Cyclopoida Copepoda			II-9-2	345			1725	342
Harpacticoida Copepoda	I-9-3	23					23	5
10. Copepoda, nauplius			II-10	94			470	93
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	13					13	3
22. Thaliacea							0	0
23. Egg							0	0
24. Euphausiacea, nauplius	I-24	1					1	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	8					8	2
29. Radiolaria							0	0
Total		336		439		0	2531	502

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-252

1. Sample No.	2303180	11. Wire run out (m)	
2. JARE	23	12. Wire angle (°)	
3. Area	Syowa Station	13. Depth of haul (m) *	5
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	3165
6. Sea depth (m)	50	16. Volume of water filtered (m ³)	5.03
7. Date & time (LMT)	Sep. 17 '82, 07:19-07:22	calculated by	Flow-meter
	(GMT)	17. Wet weight (mg) per m ³	
8. Net used	Modified NIPR-I (100 μm)	18. Settling volume (cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	509
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	33					33	7
7. Cladocera							0	0
8. Ostracoda	I-8	1					1	+
9. Calanoida Copepoda	I-9-1	285					285	57
Cyclopoida Copepoda			II-9-2	345			1725	343
Harpacticoida Copepoda	I-9-3	18					18	4
10. Copepoda, nauplius			II-10	82			410	82
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	3					3	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	14					14	3
22. Thaliacea							0	0
23. Egg	I-23	50					50	10
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	2					2	+
28. Unidentified forms	I-28	9					9	2
29. Radiolaria							0	0
Total		415		427		0	2550	509

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-253

1. Sample No. 2303181	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT) Sep. 17 '82, 07:14-07:17	16. Volume of water filtered (m ³) 4.88
(GMT)	calculated by Flow-meter
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul ..	18. Settling volume (cc) per m ³ ..
10. Duration of haul 3 min	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	48					48	10
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	246					246	50
Cyclopoida Copepoda			II-9-2	296			1480	303
Harpacticoida Copepoda	I-9-3	10					10	2
10. Copepoda, nauplius			II-10	56			280	57
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	10					10	2
22. Thaliacea							0	0
23. Egg	I-23	117					117	24
24. Euphausiacea, nauplius	I-24	1					1	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	3					3	1
28. Unidentified forms	I-28	4					4	1
29. Radiolaria							0	0
Total		441		352		0	2201	451

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-254

1. Sample No.	2303182	11. Wire run out(m)	
2. JARE	23	12. Wire angle(')	
3. Area	Syowa Station	13. Depth of haul(m) *	20
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	2860
6. Sea depth(m)	50	16. Volume of water filtered(m ³)	4.23
7. Date & time(LMT) Sep. 17 '82, 07:09-07:12		calculated by Flow-meter	
(GMT)		17. Wet weight(mg) per m ³	
8. Net used	Modified NIPR-I(100μm)	18. Settling volume(cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	312
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae	I-3	1					1	+
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	5					5	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	264					264	62
Cyclopoida Copepoda			II-9-2	443			886	209
Harpacticoida Copepoda	I-9-3	5					5	1
10. Copepoda, nauplius			II-10	53			106	25
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	9					9	2
22. Thaliacea							0	0
23. Egg	I-23	33					33	8
24. Euphausiacea, nauplius	I-24	2					2	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	2					2	+
28. Unidentified forms	I-28	3					3	1
29. Radiolaria							0	0
Total		326		496		0	1318	312

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-255

1. Sample No. <u>2303183</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT) <u>Sep. 17 '82, 07:03-07:06</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight (mg) per m ³
8. Net used	18. Settling volume (cc) per m ³ ..
9. Method of haul ..	19. Total number per m ³
10. Duration of haul <u>3 min</u>	<u>90</u>

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	2					2	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	82					82	20
Cyclopoida Copepoda	I-9-2	209					209	50
Harpacticoida Copepoda	I-9-3	6					6	1
10. Copepoda, nauplius	I-10	18					18	4
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	58					58	14
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	1					1	+
29. Radiolaria							0	0
Total		377		0		0	377	90

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-256

1. Sample No. 2303184	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No. 3	estimated by
5. Position	14. Flow-meter used
68° 59' 57" S	GO 2030
39° 37' 16" E	15. Flow-meter reading
6. Sea depth (m) 50	2970
7. Date & time (LMT) Sep. 17 '82, 06:55-06:58	16. Volume of water filtered (m ³) 4.72
(GMT)	calculated by Flow-meter
8. Net used	17. Wet weight (mg) per m ³
Modified NIPR-I (100 μm)	18. Settling volume (cc) per m ³
9. Method of haul .. Layered	19. Total number per m ³
10. Duration of haul 3 min	67

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	3					3	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	1					1	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	41					41	9
Cyclopoida Copepoda	I-9-2	113					113	24
Harpacticoida Copepoda	I-9-3	3					3	1
10. Copepoda, nauplius	I-10	10					10	2
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	143					143	30
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		314		0		0	314	67

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-257

1. Sample No. 2303185	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT)	16. Volume of water filtered (m ³)
(GMT)	calculated by
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul	18. Settling volume (cc) per m ³
10. Duration of haul	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	2					2	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	1					1	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	75					75	17
Cyclopoida Copepoda			II-9-2	154			770	173
Harpacticoida Copepoda	I-9-3	152					152	34
10. Copepoda, nauplius			II-10	72			360	81
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	4					4	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	8					8	2
22. Thaliacea							0	0
23. Egg	I-23	17					17	4
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	6					6	1
28. Unidentified forms	I-28	2					2	+
29. Radiolaria							0	0
Total		267		228		0	1397	314

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-258

1. Sample No. <u>2303186</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT) <u>Sep. 17 '82, 11:42-11:45</u>	16. Volume of water filtered (m ³)
(GMT)	calculated by <u>Flow-meter</u>
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul ..	18. Settling volume (cc) per m ³ ..
10. Duration of haul <u>3 min</u>	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	2					2	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	55					55	11
Cyclopoida Copepoda			II-9-2	129			645	134
Harpacticoida Copepoda	I-9-3	19					19	4
10. Copepoda, nauplius			II-10	59			295	61
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	9					9	2
22. Thaliacea							0	0
23. Egg	I-23	22					22	5
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	5					5	1
28. Unidentified forms	I-28	4					4	1
29. Radiolaria							0	0
Total		116		188		0	1056	220

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-259

1. Sample No. <u>2303187</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT)	16. Volume of water filtered (m ³)
(GMT)	calculated by <u>Flow-meter</u>
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul	18. Settling volume (cc) per m ³
10. Duration of haul	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	6					6	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	97					97	19
Cyclopoida Copepoda			II-9-2	159			795	160
Harpacticoida Copepoda	I-9-3	40					40	8
10. Copepoda, nauplius			II-10	61			305	61
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	7					7	1
22. Thaliacea							0	0
23. Egg	I-23	54					54	11
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	5					5	1
28. Unidentified forms	I-28	6					6	1
29. Radiolaria							0	0
Total		217		220		0	1317	264

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-260

1. Sample No.	2303188	11. Wire run out (m)	
2. JARE	23	12. Wire angle (°)	
3. Area	Syowa Station	13. Depth of haul (m) *	5
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	2728
6. Sea depth (m)	50	16. Volume of water filtered (m ³)	4.34
7. Date & time (LMT)	Sep. 17 '82, 11:34-11:37	calculated by Flow-meter	
	(GMT)	17. Wet weight (mg) per m ³	
8. Net used	Modified NIPR-I (100 μm)	18. Settling volume (cc) per m ³	
9. Method of haul	Layered	19. Total number per m ³	268
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	1					1	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	128					128	29
Cyclopoida Copepoda			II-9-2	405			810	187
Harpacticoida Copepoda	I-9-3	19					19	4
10. Copepoda, nauplius			II-10	86			172	40
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda	I-13	1					1	+
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	9					9	2
22. Thaliacea	I-22	1					1	+
23. Egg	I-23	15					15	3
24. Euphausiacea, nauplius	I-24	1					1	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	3					3	1
28. Unidentified forms	I-28	1					1	+
29. Radiolaria							0	0
Total		180		491		0	1162	268

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-261

1. Sample No. <u>2303189</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)※..... <u>10</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>G0 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>3015</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>4.79</u>
7. Date & time(LMT) <u>Sep. 17 '82, 11:29-11:32</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-I(100μm)</u>	18. Settling volume(cc) per m ³ ..
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>485</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	14					14	3
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	502					502	105
Cyclopoida Copepoda			II-9-2	301			1505	314
Harpacticoida Copepoda	I-9-3	6					6	1
10. Copepoda, nauplius			II-10	47			235	49
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	11					11	2
22. Thaliacea							0	0
23. Egg	I-23	42					42	9
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	4					4	1
28. Unidentified forms	I-28	3					3	1
29. Radiolaria							0	0
Total		583		348		0	2323	485

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-262

1. Sample No. 2303190	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
68° 59' 57" S	GO 2030
39° 37' 16" E	15. Flow-meter reading
6. Sea depth (m)	3061
50	16. Volume of water filtered (m ³)
7. Date & time (LMT) Sep. 17 '82, 11:24-11:27	4.86
(GMT)	calculated by Flow-meter
8. Net used	17. Wet weight (mg) per m ³
Modified NIPR-1 (100 μm)	18. Settling volume (cc) per m ³
9. Method of haul .. Layered	19. Total number per m ³
10. Duration of haul 3 min	413

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	35					35	7
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	542					542	112
Cyclopoida Copepoda			II-9-2	632			1264	260
Harpacticoida Copepoda	I-9-3	6					6	1
10. Copepoda, nauplius			II-10	51			102	21
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	7					7	1
22. Thaliacea							0	0
23. Egg	I-23	31					31	6
24. Euphausiacea, nauplius	I-24	4					4	1
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	9					9	2
28. Unidentified forms	I-28	3					3	1
29. Radiolaria							0	0
Total		639		683		0	2005	413

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-263

1. Sample No. <u>2303191</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)※..... <u>30</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>GO 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>2999</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>4.77</u>
7. Date & time(LMT) <u>Sep. 17 '82, 11:18-11:21</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-I(100 μm)</u>	18. Settling volume(cc) per m ³ ..
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>313</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	22					22	5
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	381					381	80
Cyclopoida Copepoda			II-9-2	456			912	191
Harpacticoida Copepoda	I-9-3	5					5	1
10. Copepoda, nauplius			II-10	47			94	20
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	6					6	1
22. Thaliacea							0	0
23. Egg	I-23	69					69	14
24. Euphausiacea, nauplius	I-24	1					1	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	2					2	+
28. Unidentified forms	I-28	3					3	1
29. Radiolaria							0	0
Total		489		503		0	1495	313

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-264

1. Sample No.	2303192	11. Wire run out(m)	_____
2. JARE	23	12. Wire angle(')	_____
3. Area	Syowa Station	13. Depth of haul(m)※	45
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	3043
6. Sea depth(m)	50	16. Volume of water filtered(m ³)	4.84
7. Date & time(LMT)	Sep. 17 '82, 11:11-11:14	calculated by	
(GMT)		17. Wet weight(mg) per m ³	Flow-meter
8. Net used	Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³ ..	_____
9. Method of haul ..	Layered	19. Total number per m ³	142
10. Duration of haul	3 min		

Proportion of Sample sorted	I/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	1					1	+
6. Polychaeta	I-6	1					1	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	198					198	41
Cyclopoida Copepoda	I-9-2	431					431	89
Harpacticoida Copepoda	I-9-3	4					4	1
10. Copepoda, nauplius	I-10	36					36	7
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	2					2	+
22. Thaliacea							0	0
23. Egg	I-23	10					10	2
24. Euphausiacea, nauplius	I-24	1					1	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	2					2	+
28. Unidentified forms	I-28	1					1	+
29. Radiolaria							0	0
Total		687		0		0	687	142

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-265

1. Sample No. 2303193	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT) Oct. 18 '82, 15:31-15:34	16. Volume of water filtered (m ³)
(GMT)	calculated by Flow-meter
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul ..	18. Settling volume (cc) per m ³ ..
10. Duration of haul 3 min	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		3/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	44					44	9
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	170					170	35
Cyclopoida Copepoda			II-9-2	584			1947	401
Harpacticoida Copepoda	I-9-3	29					29	6
10. Copepoda, nauplius			II-10	51			170	35
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	7					7	1
22. Thaliacea							0	0
23. Egg	I-23	36					36	7
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	22					22	5
29. Radiolaria							0	0
Total		309		635		0	2426	499

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-266

1. Sample No. 2303194
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth(m) 50
 7. Date & time(LMT) Oct. 18 '82, 15:26-15:29
 (GMT)
 8. Net used Modified NIPR-1(100 μm)
 9. Method of haul .. Layered
 10. Duration of haul 3 min
 11. Wire run out(m)
 12. Wire angle(')
 13. Depth of haul(m)※ 1
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3110
 16. Volume of water filtered(m³) 4.94
 calculated by Flow-meter
 17. Wet weight(mg) per m³
 18. Settling volume(cc) per m³
 19. Total number per m³ 448

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora	I-2	1					1	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	47					47	10
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	229					229	46
Cyclopoida Copepoda			II-9-2	322			1610	326
Harpacticoida Copepoda	I-9-3	16					16	3
10. Copepoda, nauplius			II-10	53			265	54
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	6					6	1
22. Thaliacea							0	0
23. Egg	I-23	31					31	6
24. Euphausiacea, nauplius	I-24	1					1	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	4					4	1
28. Unidentified forms	I-28	4					4	1
29. Radiolaria							0	0
Total		339		375		0	2214	448

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-267

1. Sample No. <u>2303195</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
	15. Flow-meter reading
6. Sea depth (m)	16. Volume of water filtered (m ³)
7. Date & time (LMT) Oct. 18 '82, 15:22-15:25	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight (mg) per m ³
8. Net used	18. Settling volume (cc) per m ³
9. Method of haul ..	19. Total number per m ³
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora	I-2	1					1	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	44					44	9
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	186					186	39
Cyclopoida Copepoda			II-9-2	774			1548	323
Harpacticoida Copepoda	I-9-3	12					12	3
10. Copepoda, nauplius			II-10	75			150	31
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	10					10	2
22. Thaliacea							0	0
23. Egg	I-23	38					38	8
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	4					4	1
28. Unidentified forms	I-28	2					2	+
29. Radiolaria							0	0
Total		297		849		0	1995	416

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-268

1. Sample No. 2303196
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) Oct. 18 '82, 15:17-15:20
 (GMT)
 8. Net used Modified NIPR-I (100 μm)
 9. Method of haul Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 5
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3010
 16. Volume of water filtered (m³) 4.78
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 417

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	65					65	14
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	190					190	40
Cyclopoida Copepoda			II-9-2	273			1365	286
Harpacticoida Copepoda	I-9-3	2					2	+
10. Copepoda, nauplius			II-10	55			275	58
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	5					5	1
22. Thaliacea							0	0
23. Egg	I-23	83					83	17
24. Euphausiacea, nauplius	I-24	2					2	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	6					6	1
29. Radiolaria							0	0
Total		354		328		0	1994	417

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-269

1. Sample No. 2303197	11. Wire run out(m).....
2. JARE..... 23	12. Wire angle(').....
3. Area..... Syowa Station	13. Depth of haul(m)*..... 10
4. Station No. 3	estimated by
5. Position..... 68° 59' 57" S	14. Flow-meter used..... GO 2030
39° 37' 16" E	15. Flow-meter reading..... 1184
6. Sea depth(m).... 50	16. Volume of water filtered(m ³) 4.62
7. Date & time(LMT) Oct. 18 '82, 15:09-15:12	calculated by <u>Assumption</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... Modified NIPR-1(100 μm)	18. Settling volume(cc) per m ³ ..
9. Method of haul.. Layered	19. Total number per m ³ 302
10. Duration of haul 3 min	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	63					63	14
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	188					188	41
Cyclopoida Copepoda			II-9-2	460			920	199
Harpacticoida Copepoda	I-9-3	6					6	1
10. Copepoda, nauplius			II-10	72			144	31
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	11					11	2
22. Thaliacea							0	0
23. Egg	I-23	59					59	13
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	2					2	+
29. Radiolaria							0	0
Total		331		532		0	1395	302

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-270

1. Sample No. 2303198
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) Oct. 18 '82, 15:03-15:06
 (GMT)
 8. Net used Modified NIPR-I (100 μ m)
 9. Method of haul .. Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 20
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 2721
 16. Volume of water filtered (m³) 4.33
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³ ..
 19. Total number per m³ 201

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	21					21	5
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	192					192	44
Cyclopoida Copepoda			II-9-2	263			526	121
Harpacticoida Copepoda	I-9-3	1					1	+
10. Copepoda, nauplius			II-10	48			96	22
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	5					5	1
22. Thaliacea							0	0
23. Egg	I-23	23					23	5
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	3					3	1
28. Unidentified forms	I-28	3					3	1
29. Radiolaria							0	0
Total		249		311		0	871	201

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-271

1. Sample No. 2303199
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) Oct. 18 '82, 14:58-15:01
 (GMT)
 8. Net used Modified NIPR-I (100 μm)
 9. Method of haul Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 30
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 2511
 16. Volume of water filtered (m³) 4.05
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 182

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	10					10	2
2. Siphonophora	I-2	1					1	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	19					19	5
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	136					136	34
Cyclopoida Copepoda			II-9-2	226			452	112
Harpacticoida Copepoda	I-9-3	21					21	5
10. Copepoda, nauplius	I-10	42					42	10
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	13					13	3
22. Thaliacea							0	0
23. Egg	I-23	38					38	9
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	+
28. Unidentified forms	I-28	5					5	1
29. Radiolaria							0	0
Total		287		226		0	739	182

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-272

1. Sample No.	<u>2303200</u>	11. Wire run out(m)	_____
2. JARE	<u>23</u>	12. Wire angle(°)	_____
3. Area	<u>Syowa Station</u>	13. Depth of haul(m) *	<u>45</u>
4. Station No.	<u>3</u>	estimated by	_____
5. Position	<u>68° 59' 57" S</u>	14. Flow-meter used	<u>G0 2030</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading	<u>700</u>
6. Sea depth(m)	<u>50</u>	16. Volume of water filtered(m ³)	<u>4.62</u>
7. Date & time(LMT)	<u>Oct. 18 '82, 14:46-14:49</u>	calculated by	<u>Assumption</u>
	(GMT)	17. Wet weight(mg) per m ³	_____
8. Net used	<u>Modified NIPR-1(100 μm)</u>	18. Settling volume(cc) per m ³ ..	_____
9. Method of haul ..	<u>Layered</u>	19. Total number per m ³	<u>53</u>
10. Duration of haul	<u>3 min</u>		

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae	I-3	1					1	+
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	5					5	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	102					102	22
Cyclopoida Copepoda	I-9-2	97					97	21
Harpacticoida Copepoda	I-9-3	6					6	1
10. Copepoda, nauplius	I-10	19					19	4
11. Cumacea							0	0
12. Isopoda	I-12	1					1	+
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	4					4	1
22. Thaliacea							0	0
23. Egg	I-23	4					4	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	3					3	1
28. Unidentified forms	I-28	3					3	1
29. Radiolaria							0	0
Total		246		0		0	246	53

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-273

1. Sample No.	2303201	11. Wire run out(m)	
2. JARE	23	12. Wire angle(°)	
3. Area	Syowa Station	13. Depth of haul(m)※	0
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	3234
6. Sea depth(m)	50	16. Volume of water filtered(m ³)	5.14
7. Date & time(LMT)	Nov. 2 '82, 14:53-14:56	calculated by	Flow-meter
	(GMT)	17. Wet weight(mg) per m ³	
8. Net used	Modified NIPR-I(100μm)	18. Settling volume(cc) per m ³	
9. Method of haul	Layered	19. Total number per m ³	274
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	100					100	19
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	121					121	24
Cyclopoida Copepoda			II-9-2	168			840	163
Harpacticoida Copepoda	I-9-3	25					25	5
10. Copepoda, nauplius			II-10	51			255	50
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	3					3	1
22. Thaliacea							0	0
23. Egg	I-23	48					48	9
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	5					5	1
28. Unidentified forms	I-28	11					11	2
29. Radiolaria							0	0
Total		313		219		0	1408	274

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-274

1. Sample No.	<u>2303202</u>	11. Wire run out (m)	_____
2. JARE	<u>23</u>	12. Wire angle (°)	_____
3. Area	<u>Syowa Station</u>	13. Depth of haul (m) *	<u>1</u>
4. Station No.	<u>3</u>	estimated by	_____
5. Position	<u>68° 59' 57" S</u>	14. Flow-meter used	<u>GO 2030</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading	<u>3186</u>
6. Sea depth (m)	<u>50</u>	16. Volume of water filtered (m ³)	<u>5.06</u>
7. Date & time (LMT) Nov. 2 '82, 14:49-14:52		calculated by	<u>Flow-meter</u>
(GMT)		17. Wet weight (mg) per m ³	_____
8. Net used	<u>Modified NIPR-I (100 μm)</u>	18. Settling volume (cc) per m ³ ..	_____
9. Method of haul ..	<u>Layered</u>	19. Total number per m ³	<u>310</u>
10. Duration of haul	<u>3 min</u>		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora	I-2	2					2	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	93					93	18
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	179					179	35
Cyclopoida Copepoda			II-9-2	172			860	170
Harpacticoida Copepoda	I-9-3	17					17	3
10. Copepoda, nauplius			II-10	50			250	49
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	2					2	+
22. Thaliacea							0	0
23. Egg	I-23	152					152	30
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	5					5	1
28. Unidentified forms	I-28	7					7	1
29. Radiolaria							0	0
Total		458		222		0	1568	310

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-275

1. Sample No.	2303203	11. Wire run out(m)	
2. JARE	23	12. Wire angle(')	
3. Area	Syowa Station	13. Depth of haul(m) *	2
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	3180
6. Sea depth(m)	50	16. Volume of water filtered(m ³)	5.05
7. Date & time(LMT)	Nov. 2 '82, 14:45-14:48	calculated by	Flow-meter
	(GMT)	17. Wet weight(mg) per m ³	
8. Net used	Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	326
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		3/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	126					126	25
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	225					225	45
Cyclopoida Copepoda			II-9-2	306			1020	202
Harpacticoida Copepoda	I-9-3	5					5	1
10. Copepoda, nauplius			II-10	54			180	36
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	4					4	1
22. Thaliacea							0	0
23. Egg	I-23	67					67	13
24. Euphausiacea, nauplius	I-24	1					1	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	3					3	1
28. Unidentified forms	I-28	9					9	2
29. Radiolaria							0	0
Total		440		360		0	1640	326

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-276

1. Sample No.	2303204	11. Wire run out(m)	
2. JARE	23	12. Wire angle(')	
3. Area	Syowa Station	13. Depth of haul(m) *	5
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	3152
6. Sea depth(m)	50	16. Volume of water filtered(m ³)	5.01
7. Date & time(LMT) Nov. 2 '82, 14:40-14:43		calculated by	Flow-meter
(GMT)		17. Wet weight(mg) per m ³	
8. Net used	Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	350
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora	I-2	1					1	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	2					2	+
6. Polychaeta	I-6	148					148	30
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	250					250	50
Cyclopoida Copepoda			II-9-2	173			865	173
Harpacticoida Copepoda	I-9-3	10					10	2
10. Copepoda, nauplius			II-10	57			285	57
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	5					5	1
22. Thaliacea							0	0
23. Egg	I-23	164					164	33
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	4					4	1
28. Unidentified forms	I-28	17					17	3
29. Radiolaria							0	0
Total		601		230		0	1751	350

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-277

1. Sample No. <u>2303205</u>	11. Wire run out(m)
2. JARE	12. Wire angle(')
3. Area	13. Depth of haul(m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth(m)	15. Flow-meter reading
7. Date & time(LMT) Nov. <u>2 '82, 14:27-14:30</u>	16. Volume of water filtered(m ³) <u>5.03</u>
(GMT)	calculated by <u>Flow-meter</u>
8. Net used	17. Wet weight(mg) per m ³
9. Method of haul ..	18. Settling volume(cc) per m ³ ..
10. Duration of haul <u>3 min</u>	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	160					160	32
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	410					410	82
Cyclopoida Copepoda			II-9-2	276			1380	274
Harpacticoida Copepoda	I-9-3	13					13	3
10. Copepoda, nauplius			II-10	54			270	54
11. Cumacea							0	0
12. Isopoda	I-12	1					1	+
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	8					8	2
22. Thaliacea							0	0
23. Egg	I-23	261					261	52
24. Euphausiacea, nauplius	I-24	3					3	1
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	7					7	1
28. Unidentified forms	I-28	29					29	6
29. Radiolaria	I-29	1					1	+
Total		894		330		0	2544	507

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-278

1. Sample No.	2303206	11. Wire run out (m)	
2. JARE	23	12. Wire angle (°)	
3. Area	Syowa Station	13. Depth of haul (m) *	20
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	3239
6. Sea depth (m)	50	16. Volume of water filtered (m ³)	5.14
7. Date & time (LMT) Nov. 2 '82, 14:22-14:25		calculated by	Flow-meter
(GMT)		17. Wet weight (mg) per m ³	
8. Net used	Modified NIPR-I (100 μm)	18. Settling volume (cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	252
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	1					1	+
6. Polychaeta	I-6	75					75	15
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	274					274	53
Cyclopoida Copepoda			II-9-2	353			706	137
Harpacticoida Copepoda	I-9-3	5					5	1
10. Copepoda, nauplius			II-10	84			168	33
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	4					4	1
22. Thaliacea							0	0
23. Egg	I-23	47					47	9
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	8					8	2
28. Unidentified forms	I-28	6					6	1
29. Radiolaria							0	0
Total		420		437		0	1294	252

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-279

1. Sample No.	2303207	11. Wire run out(m)	
2. JARE	23	12. Wire angle(')	
3. Area	Syowa Station	13. Depth of haul(m)※	30
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	2769
6. Sea depth(m)	50	16. Volume of water filtered(m ³)	4.41
7. Date & time(LMT)	Nov. 2 '82, 14:17-14:20	calculated by Flow-meter	
	(GMT)	17. Wet weight(mg) per m ³	
8. Net used	Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³	
9. Method of haul	Layered	19. Total number per m ³	129
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora	I-2	4					4	1
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	20					20	5
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	100					100	23
Cyclopoida Copepoda			II-9-2	131			262	59
Harpacticoida Copepoda	I-9-3	6					6	1
10. Copepoda, nauplius	I-10	27					27	6
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	3					3	1
22. Thaliacea							0	0
23. Egg	I-23	134					134	30
24. Euphausiacea, nauplius	I-24	2					2	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	3					3	1
28. Unidentified forms	I-28	5					5	1
29. Radiolaria							0	0
Total		305		131			0	567

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-280

1. Sample No. 2303208	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT) Nov. 2 '82, 14:10-14:13	16. Volume of water filtered (m ³) 4.73
(GMT)	17. Wet weight (mg) per m ³
8. Net used	18. Settling volume (cc) per m ³
9. Method of haul ..	19. Total number per m ³
10. Duration of haul 3 min	

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	21					21	4
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	4					4	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	41					41	9
Cyclopoida Copepoda	I-9-2	54					54	11
Harpacticoida Copepoda	I-9-3	17					17	4
10. Copepoda, nauplius	I-10	13					13	3
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca	I-20	1					1	+
21. Appendicularia	I-21	2					2	+
22. Thaliacea							0	0
23. Egg	I-23	75					75	16
24. Euphausiacea, nauplius	I-24	1					1	+
25. Nematoda	I-25	2					2	+
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	5					5	1
28. Unidentified forms	I-28	1					1	+
29. Radiolaria							0	0
Total		237		0		0	237	50

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-281

1. Sample No. <u>2303209</u>	11. Wire run out (m) _____
2. JARE <u>23</u>	12. Wire angle (°) _____
3. Area <u>Syowa Station</u>	13. Depth of haul (m) ※ <u>0</u>
4. Station No. <u>3</u>	estimated by _____
5. Position <u>68° 59' 57" S</u>	14. Flow-meter used <u>G0 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading <u>3352</u>
6. Sea depth (m) <u>50</u>	16. Volume of water filtered (m ³) <u>5.32</u>
7. Date & time (LMT) <u>Nov. 15 '82, 14:55-14:58</u>	calculated by <u>Flow-meter</u>
(GMT) _____	17. Wet weight (mg) per m ³ _____
8. Net used <u>Modified NIPR-1(100 μm)</u>	18. Settling volume (cc) per m ³ .. _____
9. Method of haul .. <u>Layered</u>	19. Total number per m ³ <u>501</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	89					89	17
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	116					116	22
Cyclopoida Copepoda			II-9-2	213			1065	200
Harpacticoida Copepoda	I-9-3	64					64	12
10. Copepoda, nauplius			II-10	182			910	171
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda	I-13	1					1	+
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	2					2	+
22. Thaliacea							0	0
23. Egg	I-23	81					81	15
24. Euphausiacea, nauplius	I-24	1					1	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	102					102	19
28. Unidentified forms	I-28	231					231	43
29. Radiolaria							0	0
Total		688		395		0	2663	501

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-282

1. Sample No. <u>2303210</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT) Nov. 15 '82, 14:51-14:54	16. Volume of water filtered (m ³)
(GMT)	calculated by <u>Flow-meter</u>
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul ..	18. Settling volume (cc) per m ³ ..
10. Duration of haul <u>3 min</u>	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		3/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	1					1	+
6. Polychaeta	I-6	84					84	16
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	101					101	19
Cyclopoida Copepoda			II-9-2	202			673	128
Harpacticoida Copepoda	I-9-3	30					30	6
10. Copepoda, nauplius			II-10	193			643	122
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	2					2	+
22. Thaliacea							0	0
23. Egg	I-23	37					37	7
24. Euphausiacea, nauplius	I-24	1					1	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	70					70	13
28. Unidentified forms	I-28	141					141	27
29. Radiolaria							0	0
Total		467		395		0	1783	339

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-283

1. Sample No.	2303211	11. Wire run out(m)	_____
2. JARE	23	12. Wire angle(°)	_____
3. Area	Syowa Station	13. Depth of haul(m)※	2
4. Station No.	3	estimated by	_____
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	2091
6. Sea depth(m)	50	16. Volume of water filtered(m ³)	4.87
7. Date & time(LMT)	Nov. 15 '82, 14:44-14:47	calculated by	Assumption
	(GMT)	17. Wet weight(mg) per m ³	_____
8. Net used	Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³ ..	_____
9. Method of haul ..	Layered	19. Total number per m ³	312
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	5					5	1
2. Siphonophora							0	0
3. Other medusae	I-3	1					1	+
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	80					80	16
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	53					53	11
Cyclopoida Copepoda			II-9-2	285			570	117
Harpacticoida Copepoda	I-9-3	23					23	5
10. Copepoda, nauplius			II-10	263			526	108
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	42					42	9
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	53					53	11
28. Unidentified forms	I-28	164					164	34
29. Radiolaria							0	0
Total		422		548		0	1518	312

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-284

1. Sample No. 2303212	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No. 3	estimated by
5. Position	14. Flow-meter used
68° 59' 57" S	15. Flow-meter reading
39° 37' 16" E	16. Volume of water filtered (m ³)
6. Sea depth (m) 50	17. Wet weight (mg) per m ³
7. Date & time (LMT) Nov. 15 '82, 14:40-14:43	18. Settling volume (cc) per m ³
(GMT)	19. Total number per m ³
8. Net used	
9. Method of haul .. Layered	
10. Duration of haul 3 min	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³	
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial			
1. Foraminifera							0	0	
2. Siphonophora							0	0	
3. Other medusae							0	0	
4. Ctenophora							0	0	
5. Chaetognatha							0	0	
6. Polychaeta	I-6	59					59	11	
7. Cladocera							0	0	
8. Ostracoda							0	0	
9. Calanoida Copepoda	I-9-1	111					111	21	
Cyclopoida Copepoda			II-9-2	158			790	150	
Harpacticoida Copepoda	I-9-3	2					2	+	
10. Copepoda, nauplius			II-10	54			270	51	
11. Cumacea							0	0	
12. Isopoda							0	0	
13. Amphipoda							0	0	
14. Mysidacea							0	0	
15. Euphausiacea							0	0	
16. Decapoda							0	0	
17. Other Crustacea							0	0	
18. Heteropoda/Pteropoda							0	0	
19. Cephalopoda							0	0	
20. Other Mollusca							0	0	
21. Appendicularia	I-21	3					3	1	
22. Thaliacea							0	0	
23. Egg	I-23	54					54	10	
24. Euphausiacea, nauplius							0	0	
25. Nematoda							0	0	
26. Fish larvae							0	0	
27. Planktonic larval forms	I-27	33					33	6	
28. Unidentified forms	I-28	55					55	10	
29. Radiolaria							0	0	
Total		317		212			0	1377	262

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-285

1. Sample No. <u>2303213</u>	11. Wire run out(m)..... _____
2. JARE..... <u>23</u>	12. Wire angle(')..... _____
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)※..... <u>10</u>
4. Station No. <u>3</u>	estimated by _____
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>GO 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>3120</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>4.96</u>
7. Date & time(LMT) <u>Nov. 15 '82, 14:36-14:39</u>	calculated by <u>Flow-meter</u>
(GMT) _____	17. Wet weight(mg) per m ³ _____
8. Net used..... <u>Modified NIPR-I(100μm)</u>	18. Settling volume(cc) per m ³ .. _____
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>285</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	140					140	28
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	168					168	34
Cyclopoida Copepoda			II-9-2	401			802	162
Harpacticoida Copepoda	I-9-3	2					2	+
10. Copepoda, nauplius			II-10	65			130	26
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	66					66	13
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	43					43	9
28. Unidentified forms	I-28	61					61	12
29. Radiolaria							0	0
Total		481		466		0	1413	285

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-286

1. Sample No. 2303214 11. Wire run out (m)
 2. JARE 23 12. Wire angle (°)
 3. Area Syowa Station 13. Depth of haul (m) * 20
 4. Station No. 3 estimated by
 5. Position 68° 59' 57" S 14. Flow-meter used GO 2030
 39° 37' 16" E 15. Flow-meter reading 2838
 6. Sea depth (m) 50 16. Volume of water filtered (m³) 4.51
 7. Date & time (LMT) Nov. 15 '82, 14:30-14:33 calculated by Flow-meter
 (GMT) 17. Wet weight (mg) per m³
 8. Net used Modified NIPR-I (100 μm) 18. Settling volume (cc) per m³ ..
 9. Method of haul .. Layered 19. Total number per m³ 232
 10. Duration of haul 3 min

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	130					130	29
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	171					171	38
Cyclopoida Copepoda			II-9-2	244			488	108
Harpacticoida Copepoda	I-9-3	3					3	1
10. Copepoda, nauplius			II-10	56			112	25
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	46					46	10
24. Euphausiacea, nauplius	I-24	2					2	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	20					20	4
28. Unidentified forms	I-28	72					72	16
29. Radiolaria							0	0
Total		445		300		0	1045	232

+ : less than 1 indiv./m³

* Depth from m beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-287

1. Sample No. <u>2303215</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
	15. Flow-meter reading
6. Sea depth (m)	16. Volume of water filtered (m ³)
7. Date & time (LMT)	calculated by
	17. Wet weight (mg) per m ³
8. Net used	18. Settling volume (cc) per m ³
9. Method of haul	19. Total number per m ³
10. Duration of haul	

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	2					2	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	27					27	6
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	41					41	10
Cyclopoida Copepoda	I-9-2	137					137	32
Harpacticoida Copepoda	I-9-3	5					5	1
10. Copepoda, nauplius	I-10	14					14	3
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	35					35	8
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	4					4	1
28. Unidentified forms	I-28	11					11	3
29. Radiolaria							0	0
Total		276		0		0	276	65

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-288

1. Sample No.	2303216	11. Wire run out (m)	
2. JARE	23	12. Wire angle (°)	
3. Area	Syowa Station	13. Depth of haul (m) *	45
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	3300
6. Sea depth (m)	50	16. Volume of water filtered (m ³)	4.52
7. Date & time (LMT) Nov. 15 '82, 14:18-14:21		calculated by	Flow-meter
(GMT)		17. Wet weight (mg) per m ³	
8. Net used	Modified NIPR-I (100 μm)	18. Settling volume (cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	45
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	2					2	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	13					13	3
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	33					33	7
Cyclopoida Copepoda	I-9-2	79					79	17
Harpacticoida Copepoda	I-9-3	2					2	+
10. Copepoda, nauplius	I-10	24					24	5
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	2					2	+
22. Thaliacea							0	0
23. Egg	I-23	19					19	4
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	14					14	3
28. Unidentified forms	I-28	17					17	4
29. Radiolaria							0	0
Total		205		0		0	205	45

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-289

1. Sample No. <u>2303217</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)※..... <u>0</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>GO 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>3285</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>5.22</u>
7. Date & time(LMT) <u>Dec. 2 '82, 14:46-14:49</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-I(100 μ m)</u>	18. Settling volume(cc) per m ³ ..
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>223</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	279					279	53
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	66					66	13
7. Cladocera							0	0
8. Ostracoda	I-8	1					1	+
9. Calanoida Copepoda	I-9-1	20					20	4
Cyclopoida Copepoda			II-9-2	163			326	62
Harpacticoida Copepoda	I-9-3	34					34	7
10. Copepoda, nauplius			II-10	61			122	23
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda	I-13	1					1	+
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	115					115	22
24. Euphausiacea, nauplius	I-24	2					2	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	91					91	17
28. Unidentified forms	I-28	105					105	20
29. Radiolaria							0	0
Total		716		224		0	1164	223

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-290

1. Sample No. 2303218 11. Wire run out(m) _____
 2. JARE 23 12. Wire angle(') _____
 3. Area Syowa Station 13. Depth of haul(m)※ 1
 4. Station No. 3 estimated by _____
 5. Position 68° 59' 57" S 14. Flow-meter used GO 2030
 39° 37' 16" E 15. Flow-meter reading 3563
 6. Sea depth(m) 50 16. Volume of water filtered(m³) 5.65
 7. Date & time(LMT) Dec. 2 '82, 14:42-14:45 calculated by Flow-meter
 (GMT) 17. Wet weight(mg) per m³ _____
 8. Net used Modified NIPR-I(100μm) 18. Settling volume(cc) per m³ _____
 9. Method of haul .. Layered 19. Total number per m³ 288
 10. Duration of haul 3 min

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	58					58	10
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	148					148	26
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	22					22	4
Cyclopoida Copepoda			II-9-2	132			660	117
Harpacticoida Copepoda	I-9-3	27					27	5
10. Copepoda, nauplius			II-10	54			270	48
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	5					5	1
22. Thaliacea							0	0
23. Egg	I-23	87					87	15
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	218					218	39
28. Unidentified forms	I-28	130					130	23
29. Radiolaria							0	0
Total		697		186		0	1627	288

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-291

1. Sample No. 2303219 11. Wire run out(m) _____
 2. JARE 23 12. Wire angle(') _____
 3. Area Syowa Station 13. Depth of haul(m) * 2
 4. Station No. 3 estimated by _____
 5. Position 68° 59' 57" S 14. Flow-meter used GO 2030
39° 37' 16" E 15. Flow-meter reading 3575
 6. Sea depth(m) 50 16. Volume of water filtered(m³) 5.67
 7. Date & time(LMT) Dec. 2 '82, 14:38-14:41 calculated by Flow-meter
 (GMT) _____
 17. Wet weight(mg) per m³ _____
 8. Net used Modified NIPR-I(100 μm) 18. Settling volume(cc) per m³ .. _____
 9. Method of haul .. Layered 19. Total number per m³ 289
 10. Duration of haul 3 min

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	16					16	3
2. Siphonophora							0	0
3. Other medusae	I-3	1					1	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	1					1	+
6. Polychaeta	I-6	112					112	20
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	22					22	4
Cyclopoida Copepoda			II-9-2	158			790	139
Harpacticoida Copepoda	I-9-3	7					7	1
10. Copepoda, nauplius			II-10	62			310	55
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	102					102	18
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	165					165	29
28. Unidentified forms	I-28	115					115	20
29. Radiolaria							0	0
Total		541		220		0	1641	289

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-292

1. Sample No. 2303220
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) Dec. 2 '82, 14:34-14:37
 (GMT)
 8. Net used Modified NIPR-I (100 μm)
 9. Method of haul .. Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 5
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3430
 16. Volume of water filtered (m³) 5.44
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³ ..
 19. Total number per m³ 272

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	4					4	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	1					1	+
6. Polychaeta	I-6	125					125	23
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	15					15	3
Cyclopoida Copepoda			II-9-2	269			538	99
Harpacticoida Copepoda	I-9-3	6					6	1
10. Copepoda, nauplius			II-10	152			304	56
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	123					123	23
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	242					242	44
28. Unidentified forms	I-28	119					119	22
29. Radiolaria							0	0
Total		636		421		0	1478	272

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-293

1. Sample No. <u>2303221</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)*..... <u>10</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>G0 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>3088</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>4.91</u>
7. Date & time(LMT) <u>Dec. 2 '82, 14:30-14:33</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-1(100 μm)</u>	18. Settling volume(cc) per m ³ ..
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>480</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	12					12	2
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	105					105	21
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	26					26	5
Cyclopoida Copepoda			II-9-2	262			1310	267
Harpacticoida Copepoda	I-9-3	7					7	1
10. Copepoda, nauplius			II-10	114			570	116
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	112					112	23
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	130					130	26
28. Unidentified forms	I-28	82					82	17
29. Radiolaria							0	0
Total		475		376		0	2355	480

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-294

1. Sample No. 2303222
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) Dec. 2 '82, 14:25-14:28
 (GMT)
 8. Net used Modified NIPR-I (100 μm)
 9. Method of haul Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 20
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3451
 16. Volume of water filtered (m³) 5.48
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 232

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	6					6	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	212					212	39
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	65					65	12
Cyclopoida Copepoda			II-9-2	321			642	117
Harpacticoida Copepoda	I-9-3	6					6	1
10. Copepoda, nauplius			II-10	82			164	30
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	49					49	9
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	72					72	13
28. Unidentified forms	I-28	55					55	10
29. Radiolaria							0	0
Total		465		403		0	1271	232

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-295

1. Sample No.	<u>2303223</u>	11. Wire run out(m)	_____
2. JARE	<u>23</u>	12. Wire angle(°)	_____
3. Area	<u>Syowa Station</u>	13. Depth of haul(m) *	<u>30</u>
4. Station No.	<u>3</u>	estimated by	_____
5. Position	<u>68° 59' 57" S</u>	14. Flow-meter used	<u>G0 2030</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading	<u>3348</u>
6. Sea depth(m)	<u>50</u>	16. Volume of water filtered(m ³)	<u>5.32</u>
7. Date & time(LMT) Dec. 2 '82, 14:18-14:21		calculated by	<u>Flow-meter</u>
(GMT)		17. Wet weight(mg) per m ³	_____
8. Net used	<u>Modified NIPR-1(100 μm)</u>	18. Settling volume(cc) per m ³ ..	_____
9. Method of haul ..	<u>Layered</u>	19. Total number per m ³	<u>266</u>
10. Duration of haul	<u>3 min</u>		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	11					11	2
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	2					2	+
6. Polychaeta	I-6	213					213	40
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	175					175	33
Cyclopoida Copepoda			II-9-2	340			680	128
Harpacticoida Copepoda	I-9-3	6					6	1
10. Copepoda, nauplius			II-10	77			154	29
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	76					76	14
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	39					39	7
28. Unidentified forms	I-28	58					58	11
29. Radiolaria							0	0
Total		581		417		0	1415	266

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-296

1. Sample No. 2303224
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) Dec. 2 '82, 14:07-14:10
 (GMT)
 8. Net used Modified NIPR-I (100 μm)
 9. Method of haul Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 40
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3398
 16. Volume of water filtered (m³) 5.39
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 261

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	128					128	24
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	148					148	27
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	124					124	23
Cyclopoida Copepoda			II-9-2	324			648	120
Harpacticoida Copepoda	I-9-3	9					9	2
10. Copepoda, nauplius			II-10	48			96	18
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	3					3	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	184					184	34
24. Euphausiacea, nauplius	I-24	3					3	1
25. Nematoda	I-25	1					1	+
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	29					29	5
28. Unidentified forms	I-28	34					34	6
29. Radiolaria							0	0
Total		664		372		0	1408	261

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-297_

1. Sample No.	2303225	11. Wire run out(m)	
2. JARE	23	12. Wire angle(')	
3. Area	Syowa Station	13. Depth of haul(m)※	0
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	3206
6. Sea depth(m)	50	16. Volume of water filtered(m ³)	5.09
7. Date & time(LMT)	Dec. 13 '82, 11:15-11:18	calculated by	Flow-meter
(GMT)		17. Wet weight(mg) per m ³	
8. Net used	Modified NIPR-I(100μm)	18. Settling volume(cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	224
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		2/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	32					32	6
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	1					1	+
6. Polychaeta	I-6	60					60	12
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	34					34	7
Cyclopoida Copepoda			II-9-2	173			433	85
Harpacticoida Copepoda	I-9-3	122					122	24
10. Copepoda, nauplius			II-10	93			233	46
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda	I-13	1					1	+
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	2					2	+
22. Thaliacea							0	0
23. Egg	I-23	11					11	2
24. Euphausiacea, nauplius	I-24	1					1	+
25. Nematoda	I-25	1					1	+
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	155					155	30
28. Unidentified forms	I-28	55					55	11
29. Radiolaria							0	0
Total		476		266		0	1142	224

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-298

1. Sample No.	2303226	11. Wire run out (m)	
2. JARE	23	12. Wire angle (°)	
3. Area	Syowa Station	13. Depth of haul (m) *	1
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	3794
6. Sea depth (m)	50	16. Volume of water filtered (m ³)	6.02
7. Date & time (LMT) Dec. 13 '82, 11:11-11:14		calculated by Flow-meter	
(GMT)		17. Wet weight (mg) per m ³	
8. Net used	Modified NIPR-I (100 μm)	18. Settling volume (cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	380
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	14					14	2
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	80					80	13
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	51					51	8
Cyclopoida Copepoda			II-9-2	195			975	162
Harpacticoida Copepoda	I-9-3	32					32	5
10. Copepoda, nauplius			II-10	105			525	87
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda	I-13	1					1	+
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	3					3	+
22. Thaliacea							0	0
23. Egg	I-23	32					32	5
24. Euphausiacea, nauplius	I-24	1					1	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	480					480	80
28. Unidentified forms	I-28	92					92	15
29. Radiolaria							0	0
Total		788		300		0	2288	380

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-299

1. Sample No. <u>2303227</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT)	16. Volume of water filtered (m ³)
(GMT)	calculated by
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul	18. Settling volume (cc) per m ³
10. Duration of haul	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	3					3	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	91					91	15
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	72					72	12
Cyclopoida Copepoda			II-9-2	184			920	155
Harpacticoida Copepoda	I-9-3	21					21	4
10. Copepoda, nauplius			II-10	65			325	55
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	2					2	+
22. Thaliacea							0	0
23. Egg	I-23	14					14	2
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	320					320	54
28. Unidentified forms	I-28	52					52	9
29. Radiolaria							0	0
Total		575		249		0	1820	307

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-300

1. Sample No. 2303228
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 18" E
 6. Sea depth(m) 50
 7. Date & time(LMT) Dec. 13 '82, 11:03-11:06
 (GMT)
 8. Net used Modified NIPR-1(100 μm)
 9. Method of haul .. Layered
 10. Duration of haul 3 min
 11. Wire run out(m)
 12. Wire angle(')
 13. Depth of haul(m)※ 5
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3733
 16. Volume of water filtered(m³) 5.92
 calculated by Flow-meter
 17. Wet weight(mg) per m³
 18. Settling volume(cc) per m³ ..
 19. Total number per m³ 312

Proportion of Sample sorted	1/1 Sample [Sort I]		2/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	135					135	23
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	102					102	17
Cyclopoida Copepoda			II-9-2	418			1045	177
Harpacticoida Copepoda	I-9-3	20					20	3
10. Copepoda, nauplius			II-10	68			170	29
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	2					2	+
22. Thaliacea							0	0
23. Egg	I-23	41					41	7
24. Euphausiacea, nauplius	I-24	1					1	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	288					288	49
28. Unidentified forms	I-28	43					43	7
29. Radiolaria							0	0
Total		632		486		0	1847	312

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No.NIPR-301

1. Sample No. 2303229	11. Wire run out(m).....
2. JARE..... 23	12. Wire angle(').....
3. Area..... Syowa Station	13. Depth of haul(m)※..... 10
4. Station No. 3	estimated by
5. Position..... 68° 59' 57" S	14. Flow-meter used..... GO 2030
39° 37' 16" E	15. Flow-meter reading..... 3132
6. Sea depth(m).... 50	16. Volume of water filtered(m ³) 4.98
7. Date & time(LMT) Dec. 13 '82, 10:59-11:02	calculated by Flow-meter
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... Modified NIPR-I(100μm)	18. Settling volume(cc) per m ³ ..
9. Method of haul.. Layered	19. Total number per m ³ 209
10. Duration of haul 3 min	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae	I-3	4					4	1
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	65					65	13
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	92					92	18
Cyclopoida Copepoda			II-9-2	306			612	123
Harpacticoida Copepoda	I-9-3	5					5	1
10. Copepoda, nauplius			II-10	48			96	19
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	40					40	8
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae	I-26	11					11	2
27. Planktonic larval forms	I-27	113					113	23
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		332		354		0	1040	209

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-302

1. Sample No. 2303230
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth(m) 50
 7. Date & time(LMT) Dec. 13 '82, 10:53-10:56
 (GMT)
 8. Net used Modified NIPR-I(100 μm)
 9. Method of haul .. Layered
 10. Duration of haul 3 min
 11. Wire run out(m)
 12. Wire angle(')
 13. Depth of haul(m)* 20
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3725
 16. Volume of water filtered(m³) 5.91
 calculated by Flow-meter
 17. Wet weight(mg) per m³
 18. Settling volume(cc) per m³ ..
 19. Total number per m³ 196

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	119					119	20
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	173					173	29
Cyclopoida Copepoda			II-9-2	352			704	119
Harpacticoida Copepoda	I-9-3	4					4	1
10. Copepoda, nauplius	I-10	46					46	8
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	75					75	13
24. Euphausiacea, nauplius	I-24	1					1	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	26					26	4
28. Unidentified forms	I-28	12					12	2
29. Radiolaria							0	0
Total		456		352		0	1160	196

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No.NIPR-303

1. Sample No. <u>2303231</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)※..... <u>30</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>G0 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>3490</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>5.54</u>
7. Date & time(LMT) <u>Dec. 13 '82, 10:48-10:51</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-I(100 μm)</u>	18. Settling volume(cc) per m ³ ..
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>274</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	3					3	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	292					292	53
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	202					202	36
Cyclopoida Copepoda			II-9-2	401			802	145
Harpacticoida Copepoda	I-9-3	5					5	1
10. Copepoda, nauplius	I-10	51					51	9
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	2					2	+
22. Thaliacea							0	0
23. Egg	I-23	119					119	21
24. Euphausiacea, nauplius	I-24	1					1	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	13					13	2
28. Unidentified forms	I-28	27					27	5
29. Radiolaria							0	0
Total		716		401		0	1518	274

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-304

1. Sample No.	2303232	11. Wire run out (m)	
2. JARE	23	12. Wire angle (°)	
3. Area	Syowa Station	13. Depth of haul (m) *	40
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	3589
6. Sea depth (m)	50	16. Volume of water filtered (m ³)	5.69
7. Date & time (LMT) Dec. 13 '82, 10:42-10:45		calculated by Flow-meter	
(GMT)		17. Wet weight (mg) per m ³	
8. Net used	Modified NIPR-I (100 μm)	18. Settling volume (cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	137
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	24					24	4
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	67					67	12
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	194					194	34
Cyclopoida Copepoda	I-9-2	311					311	55
Harpacticoida Copepoda	I-9-3	5					5	1
10. Copepoda, nauplius	I-10	34					34	6
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	129					129	23
24. Euphausiacea, nauplius	I-24	1					1	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	7					7	1
28. Unidentified forms	I-28	4					4	1
29. Radiolaria							0	0
Total		778		0		0	778	137

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-305

1. Sample No. 2303233
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) Dec. 13 '82, 17:58-18:01
 (GMT)
 8. Net used Modified NIPR-I (100 μ m)
 9. Method of haul Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 0
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3674
 16. Volume of water filtered (m³) 5.83
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 453

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	4					4	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	291					291	50
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	98					98	17
Cyclopoida Copepoda			II-9-2	216			1080	185
Harpacticoida Copepoda	I-9-3	84					84	14
10. Copepoda, nauplius			II-10	98			490	84
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	5					5	1
22. Thaliacea							0	0
23. Egg	I-23	44					44	8
24. Euphausiacea, nauplius	I-24	1					1	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	406					406	70
28. Unidentified forms	I-28	134					134	23
29. Radiolaria							0	0
Total		1068		314		0	2638	453

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-306

1. Sample No. 2303234
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 88° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) Dec. 13 '82, 17:54-17:57
 (GMT)
 8. Net used Modified NIPR-I (100 μm)
 9. Method of haul Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 1
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3785
 16. Volume of water filtered (m³) 6
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 520

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	307					307	51
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	52					52	9
Cyclopoida Copepoda			II-9-2	177			1770	295
Harpacticoida Copepoda	I-9-3	19					19	3
10. Copepoda, nauplius			II-10	48			480	80
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	85					85	14
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	353					353	59
28. Unidentified forms	I-28	49					49	8
29. Radiolaria							0	0
Total		867		225		0	3117	520

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-307

1. Sample No. <u>2303235</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT)	16. Volume of water filtered (m ³)
(GMT)	calculated by
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul	18. Settling volume (cc) per m ³
10. Duration of haul	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	1					1	+
6. Polychaeta	I-6	278					278	47
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	62					62	10
Cyclopoida Copepoda			II-9-2	193			1930	327
Harpacticoida Copepoda	I-9-3	15					15	3
10. Copepoda, nauplius			II-10	65			650	110
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	7					7	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	2					2	+
22. Thaliacea							0	0
23. Egg	I-23	76					76	13
24. Euphausiacea, nauplius	I-24	1					1	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	290					290	49
28. Unidentified forms	I-28	40					40	7
29. Radiolaria							0	0
Total		772		258		0	3352	567

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-308

1. Sample No. 2303236
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) Dec. 13 '82, 17:46-17:49
 (GMT)
 8. Net used Modified NIPR-I (100 μm)
 9. Method of haul Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 5
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3741
 16. Volume of water filtered (m³) 5.93
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 482

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	245					245	41
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	86					86	15
Cyclopoida Copepoda			II-9-2	298			1490	251
Harpacticoida Copepoda	I-9-3	21					21	4
10. Copepoda, nauplius			II-10	92			460	78
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	7					7	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	77					77	13
24. Euphausiacea, nauplius	I-24	3					3	1
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	392					392	66
28. Unidentified forms	I-28	72					72	12
29. Radiolaria							0	0
Total		904		390		0	2854	482

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-309

1. Sample No. <u>2303237</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)※..... <u>10</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>G0 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>3821</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>6.06</u>
7. Date & time(LMT) <u>Dec. 13 '82, 17:42-17:45</u>	calculated by <u>Flow-meter</u>
(GMT).....	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-I(100 μm)</u>	18. Settling volume(cc) per m ³ ..
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>395</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	1					1	+
6. Polychaeta	I-6	235					235	39
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	156					156	26
Cyclopoida Copepoda			II-9-2	258			1290	213
Harpacticoida Copepoda	I-9-3	10					10	2
10. Copepoda, nauplius			II-10	52			260	43
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	4					4	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	2					2	+
22. Thaliacea							0	0
23. Egg	I-23	103					103	17
24. Euphausiacea, nauplius	I-24	4					4	1
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	259					259	43
28. Unidentified forms	I-28	58					58	10
29. Radiolaria							0	0
Total		832		310		0	2382	395

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-310

1. Sample No. <u>2303238</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)※..... <u>20</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>GO 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>3627</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>5.75</u>
7. Date & time(LMT) <u>Dec. 13 '82, 17:37-17:40</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-I(100 μm)</u>	18. Settling volume(cc) per m ³ ..
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>230</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	121					121	21
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	106					106	18
Cyclopoida Copepoda			II-9-2	162			810	141
Harpacticoida Copepoda	I-9-3	4					4	1
10. Copepoda, nauplius	I-10	95					95	17
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	2					2	+
22. Thaliacea							0	0
23. Egg	I-23	58					58	10
24. Euphausiacea, nauplius	I-24	5					5	1
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	110					110	19
28. Unidentified forms	I-28	13					13	2
29. Radiolaria							0	0
Total		515		162		0	1325	230

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-311

1. Sample No. 2303239 11. Wire run out(m).....
 2. JARE..... 23 12. Wire angle(').....
 3. Area..... Syowa Station 13. Depth of haul(m)※..... 30
 4. Station No. 3 estimated by
 5. Position..... 68° 59' 57" S 14. Flow-meter used..... GO 2030
39° 37' 16" E 15. Flow-meter reading..... 3541
 6. Sea depth(m).... 50 16. Volume of water filtered(m³) 5.62
 7. Date & time(LMT) Dec. 13 '82, 17:32-17:35 calculated by Flow-meter
 (GMT) 17. Wet weight(mg) per m³.....
 8. Net used..... Modified NIPR-I(100 μm) 18. Settling volume(cc) per m³..
 9. Method of haul.. Layered 19. Total number per m³..... 73
 10. Duration of haul 3 min

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	38					38	7
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	75					75	13
Cyclopoida Copepoda	I-9-2	80					80	14
Harpacticoida Copepoda	I-9-3	6					6	1
10. Copepoda, nauplius	I-10	35					35	6
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	109					109	19
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	60					60	11
28. Unidentified forms	I-28	6					6	1
29. Radiolaria							0	0
Total		410		0		0	410	73

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-312

1. Sample No. 2303240	11. Wire run out(m).....
2. JARE..... 23	12. Wire angle(').....
3. Area..... Syowa Station	13. Depth of haul(m)※..... 40
4. Station No. 3	estimated by
5. Position..... 68° 59' 57" S	14. Flow-meter used..... GO 2030
39° 37' 16" E	15. Flow-meter reading..... 3607
6. Sea depth(m).... 50	16. Volume of water filtered(m ³) 5.72
7. Date & time(LMT) Dec. 13 '82, 17:25-17:28	calculated by Flow-meter
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... Modified NIPR-1(100 μm)	18. Settling volume(cc) per m ³ ..
9. Method of haul.. Layered	19. Total number per m ³ 35
10. Duration of haul 3 min	

Proportion of Sample sorted	Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	6					6	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	1					1	+
6. Polychaeta	I-6	9					9	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	28					28	5
Cyclopoida Copepoda	I-9-2	97					97	17
Harpacticoida Copepoda	I-9-3	7					7	1
10. Copepoda, nauplius	I-10	11					11	2
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	36					36	6
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	6					6	1
28. Unidentified forms							0	0
29. Radiolaria							0	0
Total		202		0		0	202	35

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-313

1. Sample No. 2303241
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) Dec. 13 '82, 23:33-23:36
 (GMT)
 8. Net used Modified NIPR-I (100 μm)
 9. Method of haul .. Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 0
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3406
 16. Volume of water filtered (m³) 5.41
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 366

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	4					4	1
2. Siphonophora	I-2	2					2	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	142					142	26
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	71					71	13
Cyclopoida Copepoda			II-9-2	130			650	120
Harpacticoida Copepoda	I-9-3	63					63	12
10. Copepoda, nauplius			II-10	79			395	73
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	5					5	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	9					9	2
22. Thaliacea							0	0
23. Egg	I-23	38					38	7
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	555					555	103
28. Unidentified forms	I-28	44					44	8
29. Radiolaria							0	0
Total		933		209		0	1978	366

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-314

1. Sample No. 2303242	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No. 3	estimated by
5. Position	14. Flow-meter used
68° 59' 57" S	GO 2030
39° 37' 16" E	15. Flow-meter reading
6. Sea depth (m) 50	3846
7. Date & time (LMT) Dec. 13 '82, 23:29-23:32	16. Volume of water filtered (m ³)
(GMT)	6.1
8. Net used	17. Wet weight (mg) per m ³
Modified NIPR-I (100 μm)	18. Settling volume (cc) per m ³
9. Method of haul .. Layered	19. Total number per m ³
10. Duration of haul 3 min	367

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	6					6	1
2. Siphonophora	I-2	76					76	12
3. Other medusae	I-3	2					2	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	1					1	+
6. Polychaeta	I-6	175					175	29
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	65					65	11
Cyclopoida Copepoda			II-9-2	130			650	107
Harpacticoida Copepoda	I-9-3	28					28	5
10. Copepoda, nauplius			II-10	99			495	81
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	5					5	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	9					9	1
22. Thaliacea							0	0
23. Egg	I-23	44					44	7
24. Euphausiacea, nauplius	I-24	3					3	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	652					652	107
28. Unidentified forms	I-28	28					28	5
29. Radiolaria							0	0
Total		1094		229		0	2239	367

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-315

1. Sample No. <u>2303243</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
	15. Flow-meter reading
6. Sea depth (m)	16. Volume of water filtered (m ³)
7. Date & time (LMT) <u>Dec. 13 '82, 23:25-23:28</u>	calculated by
(GMT)	17. Wet weight (mg) per m ³
8. Net used	18. Settling volume (cc) per m ³
9. Method of haul ..	19. Total number per m ³
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	158					158	26
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	60					60	10
Cyclopoida Copepoda			II-9-2	118			590	96
Harpacticoida Copepoda	I-9-3	20					20	3
10. Copepoda, nauplius			II-10	73			365	59
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	6					6	1
22. Thaliacea							0	0
23. Egg	I-23	46					46	7
24. Euphausiacea, nauplius	I-24	3					3	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	536					536	87
28. Unidentified forms	I-28	22					22	4
29. Radiolaria							0	0
Total		853		191		0	1808	294

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-316

1. Sample No.	2303244	11. Wire run out(m)	
2. JARE	23	12. Wire angle(')	
3. Area	Syowa Station	13. Depth of haul(m) *	5
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	3639
6. Sea depth(m)	50	16. Volume of water filtered(m ³)	5.77
7. Date & time(LMT)	Dec. 13 '82, 23:21-23:24	calculated by	Flow-meter
	(GMT)	17. Wet weight(mg) per m ³	
8. Net used	Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	407
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora	I-2	4					4	1
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	170					170	29
7. Cladocera							0	0
8. Ostracoda	I-8	1					1	+
9. Calanoida Copepoda	I-9-1	87					87	15
Cyclopoida Copepoda			II-9-2	193			965	167
Harpacticoida Copepoda	I-9-3	11					11	2
10. Copepoda, nauplius			II-10	75			375	65
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	3					3	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	9					9	2
22. Thaliacea							0	0
23. Egg	I-23	43					43	7
24. Euphausiacea, nauplius	I-24	1					1	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	640					640	111
28. Unidentified forms	I-28	39					39	7
29. Radiolaria							0	0
Total		1009		268		0	2349	407

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-317

1. Sample No. <u>2303245</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)*..... <u>10</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>GO 2030</u>
	15. Flow-meter reading..... <u>3830</u>
	16. Volume of water filtered(m ³) <u>6.07</u>
6. Sea depth(m).... <u>50</u>	17. Wet weight(mg) per m ³
7. Date & time(LMT) <u>Dec. 13 '82, 23:16-23:19</u>	calculated by <u>Flow-meter</u>
(GMT)	18. Settling volume(cc) per m ³ ..
8. Net used..... <u>Modified NIPR-I(100μm)</u>	19. Total number per m ³ <u>284</u>
9. Method of haul.. <u>Layered</u>	
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		2/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	104					104	17
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	122					122	20
Cyclopoida Copepoda			II-9-2	373			933	154
Harpacticoida Copepoda	I-9-3	9					9	1
10. Copepoda, nauplius			II-10	55			138	23
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	5					5	1
22. Thaliacea							0	0
23. Egg	I-23	50					50	8
24. Euphausiacea, nauplius	I-24	1					1	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	318					318	52
28. Unidentified forms	I-28	43					43	7
29. Radiolaria							0	0
Total		652		428		0	1723	284

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-318

1. Sample No. 2303246
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) Dec. 13 '82, 23:12-23:15
 (GMT)
 8. Net used Modified NIPR-1 (100 μm)
 9. Method of haul .. Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 20
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3840
 16. Volume of water filtered (m³) 6.09
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 295

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	242					242	40
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	162					162	27
Cyclopoida Copepoda			II-9-2	174			870	143
Harpacticoida Copepoda	I-9-3	13					13	2
10. Copepoda, nauplius	I-10	90					90	15
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	3					3	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	3					3	+
22. Thaliacea							0	0
23. Egg	I-23	302					302	50
24. Euphausiacea, nauplius	I-24	1					1	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	85					85	14
28. Unidentified forms	I-28	24					24	4
29. Radiolaria							0	0
Total		925		174		0	1795	295

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-319

1. Sample No.	2303247	11. Wire run out (m)	
2. JARE	23	12. Wire angle (°)	
3. Area	Syowa Station	13. Depth of haul (m) *	30
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	G0 2030
	39° 37' 16" E	15. Flow-meter reading	3619
6. Sea depth (m)	50	16. Volume of water filtered (m ³)	5.74
7. Date & time (LMT)	Dec. 13 '82, 23:07-23:10	calculated by Flow-meter	
	(GMT)	17. Wet weight (mg) per m ³	
8. Net used	Modified NIPR-I (100 μm)	18. Settling volume (cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	200
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		2/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	223					223	39
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	148					148	26
Cyclopoida Copepoda			II-9-2	229			573	100
Harpacticoida Copepoda	I-9-3	4					4	1
10. Copepoda, nauplius	I-10	32					32	6
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	4					4	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	120					120	21
24. Euphausiacea, nauplius							0	0
25. Nematoda	I-25	4					4	1
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	22					22	4
28. Unidentified forms	I-28	8					8	1
29. Radiolaria							0	0
Total		566		229		0	1139	200

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-320

1. Sample No. 2303248
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) Dec. 13 '82, 23:01-23:04
 (GMT)
 8. Net used Modified NIPR-I (100 μm)
 9. Method of haul .. Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 40
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3186
 16. Volume of water filtered (m³) 5.06
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³ ..
 19. Total number per m³ 245

Proportion of Sample sorted	1/1 Sample [Sort I]		2/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	3					3	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	90					90	18
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	175					175	35
Cyclopoida Copepoda			II-9-2	297			743	147
Harpacticoida Copepoda	I-9-3	3					3	1
10. Copepoda, nauplius	I-10	30					30	6
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	3					3	1
22. Thaliacea							0	0
23. Egg	I-23	146					146	29
24. Euphausiacea, nauplius	I-24	1					1	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	26					26	5
28. Unidentified forms	I-28	7					7	1
29. Radiolaria	I-29	3					3	1
Total		487		297		0	1230	245

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No.NIPR-321

1. Sample No. 2303249	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No. 3	estimated by
5. Position	14. Flow-meter used
68° 59' 57" S	GO 2030
39° 37' 16" E	15. Flow-meter reading
6. Sea depth (m) 50	3729
7. Date & time (LMT) Dec. 14 '82, 07:14-07:17	16. Volume of water filtered (m ³) 5.91
(GMT)	calculated by Flow-meter
8. Net used	17. Wet weight (mg) per m ³
Modified NIPR-I (100 μm)	18. Settling volume (cc) per m ³ ..
9. Method of haul .. Layered	19. Total number per m ³
10. Duration of haul 3 min	327

Proportion of Sample sorted	1/1 Sample [Sort I]		3/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	2					2	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	106					106	18
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	36					36	6
Cyclopoida Copepoda			II-9-2	149			497	84
Harpacticoida Copepoda	I-9-3	130					130	22
10. Copepoda, nauplius			II-10	97			323	55
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	3					3	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	4					4	1
22. Thaliacea							0	0
23. Egg	I-23	28					28	5
24. Euphausiacea, nauplius	I-24	1					1	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	766					766	130
28. Unidentified forms	I-28	30					30	5
29. Radiolaria							0	0
Total		1106		246		0	1928	327

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-322

1. Sample No.	2303250	11. Wire run out (m)	
2. JARE	23	12. Wire angle (°)	
3. Area	Syowa Station	13. Depth of haul (m) *	1
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	3916
6. Sea depth (m)	50	16. Volume of water filtered (m ³)	6.21
7. Date & time (LMT)	Dec. 14 '82, 07:10-07:13	calculated by	Flow-meter
	(GMT)	17. Wet weight (mg) per m ³	
8. Net used	Modified NIPR-I (100 μm)	18. Settling volume (cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	265
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		3/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	95					95	15
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	73					73	12
Cyclopoida Copepoda			II-9-2	229			763	123
Harpacticoida Copepoda	I-9-3	24					24	4
10. Copepoda, nauplius			II-10	64			213	34
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	4					4	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	12					12	2
22. Thaliacea							0	0
23. Egg	I-23	37					37	6
24. Euphausiacea, nauplius	I-24	3					3	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	394					394	63
28. Unidentified forms	I-28	30					30	5
29. Radiolaria							0	0
Total		672		293		0	1648	265

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-323

1. Sample No. <u>2303251</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT)	16. Volume of water filtered (m ³)
(GMT)	calculated by
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul	18. Settling volume (cc) per m ³
10. Duration of haul	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		3/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora							0	0
3. Other medusae	I-3	1					1	+
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	161					161	27
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	100					100	17
Cyclopoida Copepoda			II-9-2	417			1390	234
Harpacticoida Copepoda	I-9-3	18					18	3
10. Copepoda, nauplius			II-10	62			207	35
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	8					8	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	9					9	2
22. Thaliacea							0	0
23. Egg	I-23	65					65	11
24. Euphausiacea, nauplius	I-24	3					3	1
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	539					539	91
28. Unidentified forms	I-28	26					26	4
29. Radiolaria							0	0
Total		931		479		0	2528	426

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-324

1. Sample No.	2303252	11. Wire run out(m)	
2. JARE	23	12. Wire angle(')	
3. Area	Syowa Station	13. Depth of haul(m) *	5
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	3863
6. Sea depth(m)	50	16. Volume of water filtered(m ³)	6.12
7. Date & time(LMT)	Dec. 14 '82, 07:01-07:04	calculated by	Flow-meter
(GMT)		17. Wet weight(mg) per m ³	
8. Net used	Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	310
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	184					184	30
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	72					72	12
Cyclopoida Copepoda			II-9-2	206			1030	168
Harpacticoida Copepoda	I-9-3	10					10	2
10. Copepoda, nauplius			II-10	49			245	40
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	3					3	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	5					5	1
22. Thaliacea							0	0
23. Egg	I-23	43					43	7
24. Euphausiacea, nauplius	I-24	1					1	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	288					288	47
28. Unidentified forms	I-28	17					17	3
29. Radiolaria							0	0
Total		623		255		0	1898	310

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-325

1. Sample No.	<u>2303253</u>	11. Wire run out (m)	_____
2. JARE	<u>23</u>	12. Wire angle (°)	_____
3. Area	<u>Syowa Station</u>	13. Depth of haul (m) *	<u>10</u>
4. Station No.	<u>3</u>	estimated by	_____
5. Position	<u>68° 59' 57" S</u>	14. Flow-meter used	<u>GO 2030</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading	<u>3400</u>
6. Sea depth (m)	<u>50</u>	16. Volume of water filtered (m ³)	<u>5.4</u>
7. Date & time (LMT)	<u>Dec. 14 '82, 06:57-07:00</u>	calculated by	<u>Flow-meter</u>
	(GMT) _____	17. Wet weight (mg) per m ³	_____
8. Net used	<u>Modified NIPR-I (100 μm)</u>	18. Settling volume (cc) per m ³	_____
9. Method of haul	<u>Layered</u>	19. Total number per m ³	<u>342</u>
10. Duration of haul	<u>3 min</u>		

Proportion of Sample sorted	1/1 Sample [Sort I]		2/5 Sample [Sort II]		1/5 Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	161					161	30
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	109					109	20
Cyclopoida Copepoda			II-9-2	163	III-9-2	126	1038	192
Harpacticoida Copepoda	I-9-3	8					8	1
10. Copepoda, nauplius			II-10	69			173	32
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	7					7	1
22. Thaliacea							0	0
23. Egg	I-23	102					102	19
24. Euphausiacea, nauplius	I-24	1					1	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	228					228	42
28. Unidentified forms	I-28	17					17	3
29. Radiolaria							0	0
Total		635		232		126	1846	342

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-326

1. Sample No. 2303254
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) Dec. 14 '82, 06:53-06:56
 (GMT)
 8. Net used Modified NIPR-I (100 μm)
 9. Method of haul Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 20
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3670
 16. Volume of water filtered (m³) 5.82
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 222

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	+
2. Siphonophora	I-2	1					1	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	160					160	27
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	172					172	30
Cyclopoida Copepoda	I-9-2	188	II-9-2	110			738	127
Harpacticoida Copepoda	I-9-3	9					9	2
10. Copepoda, nauplius	I-10	48					48	8
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	100					100	17
24. Euphausiacea, nauplius	I-24	1					1	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	50					50	9
28. Unidentified forms	I-28	10					10	2
29. Radiolaria							0	0
Total		741		110		0	1291	222

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-327

1. Sample No. <u>2303255</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
	15. Flow-meter reading
6. Sea depth (m)	16. Volume of water filtered (m ³)
7. Date & time (LMT) <u>Dec. 14 '82, 06:47-06:50</u>	calculated by <u>Flow-meter</u>
	17. Wet weight (mg) per m ³
8. Net used	18. Settling volume (cc) per m ³
9. Method of haul	19. Total number per m ³
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	I/1 Sample [Sort I]		I/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	98					98	16
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	208					208	35
Cyclopoida Copepoda	I-9-2	149	II-9-2	136			1509	253
Harpacticoida Copepoda	I-9-3	7					7	1
10. Copepoda, nauplius	I-10	26					26	4
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					1	+
22. Thaliacea							0	0
23. Egg	I-23	64					64	11
24. Euphausiacea, nauplius	I-24	8					8	1
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	38					38	6
28. Unidentified forms	I-28	3					3	1
29. Radiolaria							0	0
Total		603		136		0	1963	329

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-328

1. Sample No. <u>2303256</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
	15. Flow-meter reading
6. Sea depth (m)	16. Volume of water filtered (m ³)
7. Date & time (LMT) <u>Dec. 14 '82, 06:41-06:44</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight (mg) per m ³
8. Net used	18. Settling volume (cc) per m ³
9. Method of haul ..	19. Total number per m ³
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	8					8	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	9					9	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	37					37	6
Cyclopoida Copepoda	I-9-2	124					124	21
Harpacticoida Copepoda	I-9-3	5					5	1
10. Copepoda, nauplius	I-10	9					9	2
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	2					2	+
22. Thaliacea							0	0
23. Egg	I-23	67					67	11
24. Euphausiacea, nauplius							0	0
25. Nematoda	I-25	1					1	+
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	5					5	1
28. Unidentified forms	I-28	1					1	+
29. Radiolaria							0	0
Total		268		0		0	268	46

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No.NIPR-329

1. Sample No. 2303257	11. Wire run out(m).....
2. JARE..... 23	12. Wire angle(').....
3. Area..... Syowa Station	13. Depth of haul(m)※..... 0
4. Station No. 3	estimated by
5. Position..... 68° 59' 57" S	14. Flow-meter used..... GO 2030
39° 37' 16" E	15. Flow-meter reading..... 3480
6. Sea depth(m).... 50	16. Volume of water filtered(m ³) 5.52
7. Date & time(LMT) Dec. 14 '82, 11:51-11:54	calculated by Flow-meter
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... Modified NIPR-I(100μm)	18. Settling volume(cc) per m ³ ..
9. Method of haul.. Layered	19. Total number per m ³ 370
10. Duration of haul 3 min	

Proportion of Sample sorted	1/1 Sample [Sort I]		3/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	10					10	2
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	131					131	24
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	63					63	11
Cyclopoida Copepoda			II-9-2	127			423	77
Harpacticoida Copepoda	I-9-3	148					148	27
10. Copepoda, nauplius			II-10	88			293	53
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	3					3	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	8					8	1
22. Thaliacea							0	0
23. Egg	I-23	41					41	7
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	900					900	163
28. Unidentified forms	I-28	22					22	4
29. Radiolaria	I-29	1					1	+
Total		1327		215		0	2043	370

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-330

1. Sample No.	2303258	11. Wire run out (m)	
2. JARE	23	12. Wire angle (°)	
3. Area	Syowa Station	13. Depth of haul (m) *	1
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S 39° 37' 16" E	14. Flow-meter used	GO 2030
6. Sea depth (m)	50	15. Flow-meter reading	3732
7. Date & time (LMT) Dec. 14 '82, 11:47-11:50		16. Volume of water filtered (m ³)	5.92
(GMT)		calculated by	Flow-meter
8. Net used	Modified NIPR-I (100 μm)	17. Wet weight (mg) per m ³	
9. Method of haul ..	Layered	18. Settling volume (cc) per m ³ ..	
10. Duration of haul	3 min	19. Total number per m ³	248

Proportion of Sample sorted	1/1 Sample [Sort I]		3/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	3					3	1
2. Siphonophora	I-2	23					23	4
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	96					96	16
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	28					28	5
Cyclopoida Copepoda			II-9-2	134			447	76
Harpacticoida Copepoda	I-9-3	43					43	7
10. Copepoda, nauplius			II-10	78			260	44
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	7					7	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	2					2	+
22. Thaliacea							0	0
23. Egg	I-23	28					28	5
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	513					513	87
28. Unidentified forms	I-28	13					13	2
29. Radiolaria							0	0
Total		756		212		0	1463	248

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-331

1. Sample No. <u>2303259</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)*..... <u>2</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>G0 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>4010</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>6.36</u>
7. Date & time(LMT) <u>Dec. 14 '82, 11:43-11:46</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-I(100 μm)</u>	18. Settling volume(cc) per m ³ ..
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>252</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/5 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	171					171	27
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	32					32	5
Cyclopoida Copepoda			II-9-2	96			480	75
Harpacticoida Copepoda	I-9-3	36					36	6
10. Copepoda, nauplius			II-10	10			50	8
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	5					5	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	9					9	1
22. Thaliacea							0	0
23. Egg	I-23	33					33	5
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	767					767	121
28. Unidentified forms	I-28	21					21	3
29. Radiolaria							0	0
Total		1074		106		0	1804	252

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-332

1. Sample No. 2303260	11. Wire run out(m).....
2. JARE..... 23	12. Wire angle(').....
3. Area..... Syowa Station	13. Depth of haul(m)※..... 5
4. Station No..... 3	estimated by
5. Position..... 68° 59' 57" S	14. Flow-meter used..... GO 2030
39° 37' 16" E	15. Flow-meter reading..... 3181
6. Sea depth(m).... 50	16. Volume of water filtered(m ³) 5.05
7. Date & time(LMT) Dec. 14 '82, 11:38-11:41	calculated by Flow-meter
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... Modified NIPR-I(100 μm)	18. Settling volume(cc) per m ³ ..
9. Method of haul.. Layered	19. Total number per m ³ 180
10. Duration of haul 3 min	

Proportion of Sample sorted	Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae	I-3	1					1	+
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	121					121	24
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	40					40	8
Cyclopoida Copepoda	I-9-2	247					247	49
Harpacticoida Copepoda	I-9-3	12					12	2
10. Copepoda, nauplius	I-10	176					176	35
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	5					5	1
22. Thaliacea							0	0
23. Egg	I-23	23					23	5
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	262					262	52
28. Unidentified forms	I-28	20					20	4
29. Radiolaria							0	0
Total		907		0		0	907	180

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-333

1. Sample No. 2303261	11. Wire run out(m)
2. JARE	12. Wire angle(')
3. Area	13. Depth of haul(m) *
4. Station No. 3	estimated by
5. Position	14. Flow-meter used
68° 59' 57" S	15. Flow-meter reading
39° 37' 16" E	16. Volume of water filtered(m ³)
6. Sea depth(m) 50	calculated by
7. Date & time(LMT) Dec. 14 '82, 11:34-11:37	17. Wet weight(mg) per m ³
(GMT)	18. Settling volume(cc) per m ³
8. Net used	19. Total number per m ³
9. Method of haul .. Layered	
10. Duration of haul 3 min	

Proportion of Sample sorted	1/1 Sample [Sort I]		4/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae	I-3	1					1	+
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	336					336	53
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	113					113	18
Cyclopoida Copepoda			II-9-2	357			893	141
Harpacticoida Copepoda	I-9-3	8					8	1
10. Copepoda, nauplius			II-10	47			118	19
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	6					6	1
22. Thaliacea							0	0
23. Egg	I-23	52					52	8
24. Euphausiacea, nauplius	I-24	3					3	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	361					361	57
28. Unidentified forms	I-28	36					36	6
29. Radiolaria	I-29	1					1	+
Total		918		404		0	1929	304

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-334

1. Sample No. 2303262
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) Dec. 14 '82, 11:29-11:32
 (GMT)
 8. Net used Modified NIPR-I (100 μm)
 9. Method of haul Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 20
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3950
 16. Volume of water filtered (m³) 6.26
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 253

Proportion of Sample sorted	1/1 Sample [Sort I]		1/2 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora	I-2	2					2	+
3. Other medusae	I-3	1					1	+
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	251					251	40
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	247					247	39
Cyclopoida Copepoda			II-9-2	266			532	85
Harpacticoida Copepoda	I-9-3	2					2	+
10. Copepoda, nauplius			II-10	45			90	14
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	4					4	1
22. Thaliacea							0	0
23. Egg	I-23	180					180	29
24. Euphausiacea, nauplius	I-24	1					1	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	251					251	40
28. Unidentified forms	I-28	24					24	4
29. Radiolaria							0	0
Total		964		311		0	1588	253

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-335

1. Sample No. <u>2303263</u>	11. Wire run out (m) _____
2. JARE <u>23</u>	12. Wire angle (°) _____
3. Area <u>Syowa Station</u>	13. Depth of haul (m) * <u>30</u>
4. Station No. <u>3</u>	estimated by
5. Position <u>68° 59' 57" S</u>	14. Flow-meter used <u>G0 2030</u>
	15. Flow-meter reading <u>3629</u>
	16. Volume of water filtered (m ³) <u>5.76</u>
6. Sea depth (m) <u>50</u>	calculated by <u>Flow-meter</u>
7. Date & time (LMT) <u>Dec. 14 '82, 11:24-11:27</u>	17. Wet weight (mg) per m ³ _____
(GMT)	18. Settling volume (cc) per m ³ .. _____
8. Net used <u>Modified NIPR-1 (100 μm)</u>	19. Total number per m ³ <u>170</u>
9. Method of haul .. <u>Layered</u>	
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora	I-2	1					1	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	122					122	21
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	135					135	23
Cyclopoida Copepoda	I-9-2	537					537	93
Harpacticoida Copepoda	I-9-3	5					5	1
10. Copepoda, nauplius	I-10	41					41	7
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	1					1	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	2					2	+
22. Thaliacea							0	0
23. Egg	I-23	71					71	12
24. Euphausiacea, nauplius	I-24	1					1	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	60					60	10
28. Unidentified forms	I-28	6					6	1
29. Radiolaria							0	0
Total		982		0		0	982	170

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-336

1. Sample No. 2303264
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) Dec. 14 '82, 11:17-11:20
 (GMT)
 8. Net used Modified NIPR-1 (100 μ m)
 9. Method of haul .. Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 40
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3722
 16. Volume of water filtered (m³) 5.9
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³ ..
 19. Total number per m³ 370

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	149					149	25
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	226					226	38
Cyclopoida Copepoda	I-9-2	247	II-9-2	135			1597	271
Harpacticoida Copepoda	I-9-3	4					4	1
10. Copepoda, nauplius	I-10	44					44	7
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	5					5	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	3					3	1
22. Thaliacea							0	0
23. Egg	I-23	106					106	18
24. Euphausiacea, nauplius	I-24	2					2	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	36					36	6
28. Unidentified forms	I-28	11					11	2
29. Radiolaria							0	0
Total		833		135		0	2183	370

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-337

1. Sample No. <u>2303265</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)※..... <u>0</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>G0 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>3507</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>5.57</u>
7. Date & time(LMT) <u>Dec. 29 '82, 09:40-09:43</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-I(100 μm)</u>	18. Settling volume(cc) per m ³ ..
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>322</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		2/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	22					22	4
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	37					37	7
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	35					35	6
Cyclopoida Copepoda	I-9-2	89	II-9-2	93			554	99
Harpacticoida Copepoda	I-9-3	550					550	99
10. Copepoda, nauplius			II-10	76			380	68
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	8					8	1
22. Thaliacea							0	0
23. Egg	I-23	26					26	5
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	163					163	29
28. Unidentified forms	I-28	15					15	3
29. Radiolaria	I-29	1					1	+
Total		946		169		0	1791	322

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-338

1. Sample No. 2303266	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT) Dec. 29 '82, 09:45-09:48	16. Volume of water filtered (m ³)
(GMT)	calculated by
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul ..	18. Settling volume (cc) per m ³ ..
10. Duration of haul 3 min	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora	I-2	1					1	+
3. Other medusae	I-3	1					1	+
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	157					157	28
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	29					29	5
Cyclopoida Copepoda			II-9-2	235			2350	422
Harpacticoida Copepoda	I-9-3	50					50	9
10. Copepoda, nauplius			II-10	46			460	83
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	4					4	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	33					33	6
22. Thaliacea							0	0
23. Egg	I-23	38					38	7
24. Euphausiacea, nauplius							0	0
25. Nematoda	I-25	1					1	+
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1185					1185	213
28. Unidentified forms	I-28	32					32	6
29. Radiolaria							0	0
Total		1531		281		0	4341	780

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-339

1. Sample No. 2303267	11. Wire run out(m)
2. JARE	12. Wire angle(')
3. Area	13. Depth of haul(m) *
4. Station No. 3	estimated by
5. Position	14. Flow-meter used
68° 59' 57" S	15. Flow-meter reading
39° 37' 16" E	16. Volume of water filtered(m ³)
6. Sea depth(m) 50	calculated by
7. Date & time(LMT) Dec. 29 '82, 09:50-09:53	17. Wet weight(mg) per m ³
(GMT)	18. Settling volume(cc) per m ³
8. Net used	19. Total number per m ³
9. Method of haul .. Layered	952
10. Duration of haul 3 min	

Proportion of Sample sorted	1/1 Sample [Sort I]		1/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	220					220	40
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	75					75	14
Cyclopoida Copepoda			II-9-2	338			3380	611
Harpacticoida Copepoda	I-9-3	35					35	6
10. Copepoda, nauplius			II-10	41			410	74
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	14					14	3
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	41					41	7
22. Thaliacea							0	0
23. Egg	I-23	56					56	10
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1009					1009	182
28. Unidentified forms	I-28	30					30	5
29. Radiolaria							0	0
Total		1480		379		0	5270	952

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-340

1. Sample No. 2303268
 2. JARE 23
 3. Area Syowa Station
 4. Station No. 3
 5. Position 68° 59' 57" S
 39° 37' 16" E
 6. Sea depth (m) 50
 7. Date & time (LMT) Dec. 29 '82, 09:56-09:59
 (GMT)
 8. Net used Modified NIPR-1 (100 μm)
 9. Method of haul Layered
 10. Duration of haul 3 min
 11. Wire run out (m)
 12. Wire angle (°)
 13. Depth of haul (m) * 5
 estimated by
 14. Flow-meter used GO 2030
 15. Flow-meter reading 3296
 16. Volume of water filtered (m³) 5.23
 calculated by Flow-meter
 17. Wet weight (mg) per m³
 18. Settling volume (cc) per m³
 19. Total number per m³ 1011

Proportion of Sample sorted	1/1 Sample [Sort I]		2/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora	I-2	23					23	4
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	943					943	180
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	135					135	26
Cyclopoida Copepoda			II-9-2	571			2855	546
Harpacticoida Copepoda	I-9-3	19					19	4
10. Copepoda, nauplius			II-10	81			405	77
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	34					34	7
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	14					14	3
22. Thaliacea							0	0
23. Egg	I-23	43					43	8
24. Euphausiacea, nauplius							0	0
25. Nematoda	I-25	5					5	1
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	763					763	146
28. Unidentified forms	I-28	48					48	9
29. Radiolaria							0	0
Total		2027		652		0	5287	1011

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-341

1. Sample No. <u>2303269</u>	11. Wire run out(m).....
2. JARE..... <u>23</u>	12. Wire angle(').....
3. Area..... <u>Syowa Station</u>	13. Depth of haul(m)※..... <u>10</u>
4. Station No. <u>3</u>	estimated by
5. Position..... <u>68° 59' 57" S</u>	14. Flow-meter used..... <u>GO 2030</u>
<u>39° 37' 16" E</u>	15. Flow-meter reading..... <u>3376</u>
6. Sea depth(m).... <u>50</u>	16. Volume of water filtered(m ³) <u>5.36</u>
7. Date & time(LMT) <u>Dec. 29 '82, 10:00-10:03</u>	calculated by <u>Flow-meter</u>
(GMT)	17. Wet weight(mg) per m ³
8. Net used..... <u>Modified NIPR-I(100 μm)</u>	18. Settling volume(cc) per m ³ ..
9. Method of haul.. <u>Layered</u>	19. Total number per m ³ <u>339</u>
10. Duration of haul <u>3 min</u>	

Proportion of Sample sorted	1/1 Sample [Sort I]		4/10 Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	1					1	+
6. Polychaeta	I-6	446					446	83
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	68					68	13
Cyclopoida Copepoda			II-9-2	333			833	155
Harpacticoida Copepoda	I-9-3	19					19	4
10. Copepoda, nauplius			II-10	60			150	28
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	13					13	2
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	6					6	1
22. Thaliacea							0	0
23. Egg	I-23	25					25	5
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	234					234	44
28. Unidentified forms	I-28	21					21	4
29. Radiolaria							0	0
Total		833		393		0	1816	339

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-342

1. Sample No. <u>2303270</u>	11. Wire run out (m)
2. JARE	12. Wire angle (°)
3. Area	13. Depth of haul (m) *
4. Station No.	estimated by
5. Position	14. Flow-meter used
6. Sea depth (m)	15. Flow-meter reading
7. Date & time (LMT) <u>Dec. 29 '82, 10:06-10:09</u>	16. Volume of water filtered (m ³)
(GMT)	calculated by
8. Net used	17. Wet weight (mg) per m ³
9. Method of haul	18. Settling volume (cc) per m ³
10. Duration of haul <u>3 min</u>	19. Total number per m ³

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	289					289	53
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	261					261	48
Cyclopoida Copepoda	I-9-2	445					445	82
Harpacticoida Copepoda	I-9-3	26					26	5
10. Copepoda, nauplius	I-10	62					62	11
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	4					4	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	5					5	1
22. Thaliacea							0	0
23. Egg	I-23	48					48	9
24. Euphausiacea, nauplius							0	0
25. Nematoda	I-25	9					9	2
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	30					30	5
28. Unidentified forms	I-28	16					16	3
29. Radiolaria							0	0
Total		1195		0		0	1195	220

* Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-343

1. Sample No. 2303271 11. Wire run out(m) _____
 2. JARE 23 12. Wire angle(') _____
 3. Area Syowa Station 13. Depth of haul(m)※ 30
 4. Station No. 3 estimated by _____
 5. Position 68° 59' 57" S 14. Flow-meter used G0 2030
39° 37' 16" E 15. Flow-meter reading 3290
 6. Sea depth(m) 50 16. Volume of water filtered(m³) 5.22
 7. Date & time(LMT) Dec. 29 '82, 10:11-10:14 calculated by Flow-meter
 (GMT) 17. Wet weight(mg) per m³ _____
 8. Net used Modified NIPR-I(100 μm) 18. Settling volume(cc) per m³ .. _____
 9. Method of haul .. Layered 19. Total number per m³ 77
 10. Duration of haul 3 min

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	1					1	+
6. Polychaeta	I-6	46					46	9
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	94					94	18
Cyclopoida Copepoda	I-9-2	211					211	40
Harpacticoida Copepoda	I-9-3	1					1	+
10. Copepoda, nauplius	I-10	14					14	3
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	18					18	3
24. Euphausiacea, nauplius							0	0
25. Nematoda	I-25	2					2	+
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	12					12	2
28. Unidentified forms	I-28	2					2	+
29. Radiolaria							0	0
Total		401		0		0	401	77

+ : less than 1 indiv./m³

※ Depth from beneath the undersurface of sea ice

ZOOPLANKTON RECORD SHEET

Series No. NIPR-344

1. Sample No.	2303272	11. Wire run out (m)	
2. JARE	23	12. Wire angle (°)	
3. Area	Syowa Station	13. Depth of haul (m) *	40
4. Station No.	3	estimated by	
5. Position	68° 59' 57" S	14. Flow-meter used	GO 2030
	39° 37' 16" E	15. Flow-meter reading	3299
6. Sea depth (m)	50	16. Volume of water filtered (m ³)	5.24
7. Date & time (LMT) Dec. 29 '82, 10:17-10:20		calculated by	Flow-meter
(GMT)		17. Wet weight (mg) per m ³	
8. Net used	Modified NIPR-I (100 μm)	18. Settling volume (cc) per m ³ ..	
9. Method of haul ..	Layered	19. Total number per m ³	71
10. Duration of haul	3 min		

Proportion of Sample sorted	1/1 Sample [Sort I]		Sample [Sort II]		Sample [Sort III]		Indiv. No. per haul	Indiv. No. per m ³
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	2					2	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	19					19	4
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	100					100	19
Cyclopoida Copepoda	I-9-2	103					103	20
Harpacticoida Copepoda	I-9-3	4					4	1
10. Copepoda, nauplius	I-10	28					28	5
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	3					3	1
22. Thaliacea							0	0
23. Egg	I-23	98					98	19
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	9					9	2
28. Unidentified forms	I-28	1					1	+
29. Radiolaria							0	0
Total		367		0		0	367	71

+ : less than 1 indiv./m³

* Depth from beneath the undersurface of sea ice