

ZOOPLANKTON DATA COLLECTED WITH BIOMASS PROGRAMME

AT SYOWA STATION IN 1982 BY JARE-23

I. NORPAC NET SAMPLES

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As part of the International BIOMASS (Biological Investigation of Marine Antarctic System 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 samplings at six stations using three types of nets, *i.e.* Norpac net, Parasol net and "NIPR-I" sampler, were carried out in JARE-23 (Fig. 1). Details of the sampling methods and frequency have been published in JARE Data Reports, No. 98 (Fukuchi *et al.*, 1985).

Zooplankton samples obtained with Norpac net vertical hauls by JARE-23 between January 1982 and January 1983 were examined for primary sorting. Among the total of 181 Norpac net samples, 159 samples have been finished for primary sorting and the results are given in this volume. Primary sorting of other Norpac net samples and those of Parasol net and "NIPR-I" sampler is being undertaken.

Zooplankton were assorted into 29 categories as seen in the following tables. Copepoda (Category 9) were counted for each of

Calanoida, Cyclopoida and Harpacticoida. Euphausiacea were counted for the nauplius stages (Category 24) and the other stages (Category 15). Eggs (Category 23) include those of crustacean and/or benthic invertebrate, etc. Planktonic larval forms (Category 27) include benthic invertebrate larvae other than Polychaeta (Category 6).

Firstly, large-sized animals were sorted from a whole sample. Then the sample was divided into subsamples with suitable proportion according to sample size. Zooplankters except for small-sized animals of large individual numbers were sorted from the subsample. Small-sized animals of large numbers were sorted from sub-divided subsamples. Consequently, sorting was done at three or four stages (Sort I to IV in the following tables). Animals were sorted under the NIKON SMZ-10 binocular microscope. Total individual number per haul and a unit volume of water filtered ( $m^3$ ) which are summed up from individual number obtained at each sorting stage are listed in the two right-end columns, respectively.

All specimens sorted into each category were preserved in each vial tube filled with 3 % formaline seawater and are kept at the National Institute of Polar Research, Tokyo.

It is hoped that not only this publication but also specimens sorted are submitted to scientists for use. Further details about data and specimens should be asked for at the following.

Department of Biological Data  
Division of Data Collection and Processing  
National Institute of Polar Research  
9-10, Kaga 1-chome, Itabashi-ku, Tokyo 173

Reference

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 ), 113 p.

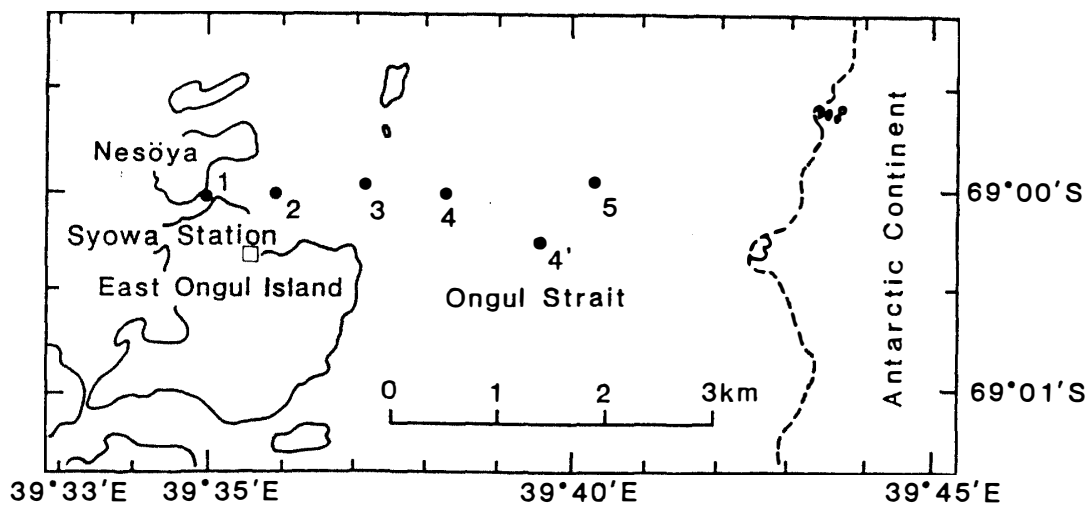


Fig. 1. Sampling locations for routine observations  
by JARE-23.

## ZOOPLANKTON RECORD SHEET

Series No. NOR-001

1. Sample No. ....	<u>2301N001</u>	11. Wire run out(m) .....	<u>8.4</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>8.4</u>
4. Station No.....	<u>1</u>	estimated by .....	
5. Position.....	<u>69° 00'00"S</u>	14. Flow-meter used .....	
	<u>39° 35'00"E</u>	15. Flow-meter reading.....	
6. Sea depth(m).....	<u>10</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>1.15</u>
7. Date & time(LMT)...	<u>Jan. 22 '82, 10:42</u>	calculated by...	<u>Assumption</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>2857</u>
10. Duration of haul...			

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 <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	3					3	3
2. Siphonophora							0	0
3. Other medusae	I-3	1					1	1
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	37					37	32
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	2530					2530	2200
Cyclopoida Copepoda			II-9-2	203			508	442
Harpacticoida Copepoda	I-9-3	34					34	30
10. Copepoda, nauplius			II-10	11			28	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	3
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	37					37	32
22. Thaliacea							0	0
23. Egg	I-23	50					50	43
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	50					50	43
28. Unidentified forms	I-28	5					5	4
29. Radiolaria							0	0
<b>Total</b>		<b>2750</b>		<b>214</b>			<b>3286</b>	<b>2857</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-002

1. Sample No. ....	<u>2301N002</u>	11. Wire run out(m) .....	<u>9.0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>9.0</u>
4. Station No. ....	<u>1</u>	estimated by .....	
5. Position .....	<u>69° 00'00"S</u>	14. Flow-meter used .....	
	<u>39° 35'00"E</u>	15. Flow-meter reading .....	
6. Sea depth(m) .....	<u>10</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>1.24</u>
7. Date & time(LMT) .....	<u>Jan. 22 '82, 14:05</u>	calculated by .....	<u>Assumption</u>
(GMT) .....		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1927</u>
10. Duration of haul .....			

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 <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	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	17
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	1615					1615	1302
Cyclopoida Copepoda			II-9-2	193			483	390
Harpacticoida Copepoda	I-9-3	42					42	34
10. Copepoda, nauplius			II-10	23			58	47
11. Cumacea							0	0
12. Isopoda							0	0
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	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	70					70	56
22. Thaliacea							0	0
23. Egg	I-23	54					54	44
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	36					36	29
28. Unidentified forms	I-28	8					8	6
29. Radiolaria							0	0
<b>Total</b>		<b>1848</b>		<b>216</b>			<b>2389</b>	<b>1927</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-003

1. Sample No. ....	<u>2301N003</u>	11. Wire run out(m) .....	<u>9.5</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>9.5</u>
4. Station No. ....	<u>1</u>	estimated by .....	
5. Position.....	<u>69° 00'00"S</u>	14. Flow-meter used .....	
	<u>39° 35'00"E</u>	15. Flow-meter reading.....	
6. Sea depth(m).....	<u>10</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>1.32</u>
7. Date & time(LMT)...	<u>Jan. 22 '82, 16:50</u>	calculated by...	<u>Assumption</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1805</u>
10. Duration of haul...			

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 <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	45					45	34
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	1117					1117	846
Cyclopoida Copepoda			II-9-2	248			620	470
Harpacticoida Copepoda	I-9-3	29					29	22
10. Copepoda, nauplius			II-10	55			138	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	I-18	8					8	6
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	180					180	136
22. Thaliacea							0	0
23. Egg	I-23	112					112	85
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	92					92	70
28. Unidentified forms	I-28	40					40	30
29. Radiolaria							0	0
<b>Total</b>		<b>1624</b>		<b>303</b>			<b>2382</b>	<b>1805</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-004

1. Sample No. ....	<u>2301N004</u>	11. Wire run out(m) .....	<u>10.5</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>10.5</u>
4. Station No. ....	<u>1</u>	estimated by .....	
5. Position .....	<u>69° 00' 00" S</u>	14. Flow-meter used .....	
	<u>39° 35' 00" E</u>	15. Flow-meter reading .....	
6. Sea depth(m) .....	<u>10</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>1.47</u>
7. Date & time(LMT) ...	<u>Jan. 22 '82, 19:50</u>	calculated by ...	<u>Assumption</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1006</u>
10. Duration of haul ...			

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 <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	3					3	2
2. Siphonophora							0	0
3. Other medusae	I-3	1					1	1
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	19					19	13
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	687					687	467
Cyclopoida Copepoda			II-9-2	225			563	383
Harpacticoida Copepoda	I-9-3	37					37	25
10. Copepoda, nauplius			II-10	9			23	16
11. Cumacea							0	0
12. Isopoda							0	0
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	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	43					43	29
22. Thaliacea							0	0
23. Egg	I-23	64					64	44
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	25					25	17
28. Unidentified forms	I-28	12					12	8
29. Radiolaria							0	0
<b>Total</b>		<b>892</b>		<b>234</b>			<b>1478</b>	<b>1006</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-005

1. Sample No. ....	<u>2301N005</u>	11. Wire run out (m) .....	<u>10.0</u>
2. JARE .....	<u>23</u>	12. Wire angle (°) .....	_____
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>1 00</u>
4. Station No. ....	<u>1</u>	estimated by .....	_____
5. Position .....	<u>69° 00'00"S</u>	14. Flow-meter used .....	_____
	<u>39° 35'00"E</u>	15. Flow-meter reading .....	_____
6. Sea depth (m) .....	<u>10</u>	16. Volume of water filtered (m <sup>3</sup> ) ...	<u>1.39</u>
7. Date & time (LMT) ...	<u>Jan. 22 '82, 22:45</u>	calculated by ...	<u>Assumption</u>
(GMT) ...	_____	17. Wet weight (mg) per m <sup>3</sup> .....	_____
8. Net used .....	<u>NORPAC (100 μm)</u>	18. Settling volume (cc) per m <sup>3</sup> .....	_____
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>497</u>
10. Duration of haul ...	_____		

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 <sup>3</sup>
	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	17					17	12
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	103					103	74
Cyclopoida Copepoda			II-9-2	167			418	301
Harpacticoida Copepoda	I-9-3	13					13	9
10. Copepoda, nauplius			II-10	13			33	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	2					2	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	31					31	22
22. Thaliacea							0	0
23. Egg	I-23	48					48	35
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	27					27	19
28. Unidentified forms							0	0
29. Radiolaria							0	0
<b>Total</b>		<b>241</b>		<b>180</b>			<b>692</b>	<b>497</b>



## ZOOPLANKTON RECORD SHEET

Series No. NOR-006

1. Sample No. ....	<u>2301N006</u>	11. Wire run out(m) .....	<u>10.0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	_____
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>10.0</u>
4. Station No. ....	<u>1</u>	estimated by .....	_____
5. Position.....	<u>69° 00'00"S</u>	14. Flow-meter used .....	_____
	<u>39° 35'00"E</u>	15. Flow-meter reading.....	_____
6. Sea depth(m).....	<u>10</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>1.39</u>
7. Date & time(LMT)...	<u>Jan. 23 '82, 01:50</u>	calculated by...	<u>Assumption</u>
(GMT)...	_____	17. Wet weight(mg) per m <sup>3</sup> .....	_____
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	_____
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>2060</u>
10. Duration of haul...	_____		

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 <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	15					15	11
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	2213					2213	1592
Cyclopoida Copepoda			II-9-2	167			418	301
Harpacticoida Copepoda	I-9-3	22					22	16
10. Copepoda, nauplius			II-10	11			28	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	I-18	3					3	2
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	52					52	37
22. Thaliacea							0	0
23. Egg	I-23	79					79	57
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	26					26	19
28. Unidentified forms	I-28	5					5	4
29. Radiolaria							0	0
Total		2416		178			2862	2060

## ZOOPLANKTON RECORD SHEET

Series No. NOR-007

1. Sample No. ....	<u>2301N007</u>	11. Wire run out(m) .....	<u>10.0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>10.0</u>
4. Station No. ....	<u>1</u>	estimated by .....	
5. Position.....	<u>69° 00'00"S</u>	14. Flow-meter used .....	
	<u>39° 35'00"E</u>	15. Flow-meter reading.....	
6. Sea depth(m).....	<u>10</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>1.39</u>
7. Date & time(LMT)...	<u>Jan. 23 '82, 04:43</u>	calculated by...	<u>Assumption</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>2673</u>
10. Duration of haul...			

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 <sup>3</sup>
	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	33
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	2961					2961	2130
Cyclopoida Copepoda			II-9-2	162			405	291
Harpacticoida Copepoda	I-9-3	17					17	12
10. Copepoda, nauplius			II-10	44			110	79
11. Cumacea							0	0
12. Isopoda							0	0
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	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	76					76	55
22. Thaliacea							0	0
23. Egg	I-23	56					56	40
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	43					43	31
28. Unidentified forms	I-28	1					1	1
29. Radiolaria							0	0
<b>Total</b>		<b>3201</b>		<b>206</b>			<b>3716</b>	<b>2673</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-008

1. Sample No. ....	<u>2301N008</u>	11. Wire run out(m) .....	<u>9.8</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>9.8</u>
4. Station No. ....	<u>1</u>	estimated by .....	
5. Position.....	<u>69° 00'00"S</u>	14. Flow-meter used .....	
	<u>39° 35'00"E</u>	15. Flow-meter reading.....	
6. Sea depth(m).....	<u>10</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>1.36</u>
7. Date & time(LMT)...	<u>Jan. 23 '82, 08:00</u>	calculated by...	<u>Assumption</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>2160</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 2/5 Sample ] [ Sort II ]		[ 1/10 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	1
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	28					28	21
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	2128					2128	1565
Cyclopoida Copepoda			II-9-2	174			435	320
Harpacticoida Copepoda	I-9-3	32					32	24
10. Copepoda, nauplius					III-10	17	170	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	9					9	7
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	54					54	40
22. Thaliacea							0	0
23. Egg	I-23	36					36	26
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	39					39	29
28. Unidentified forms	I-28	3					3	2
29. Radiolaria							0	0
<b>Total</b>		<b>2330</b>		<b>174</b>		<b>17</b>	<b>2935</b>	<b>2160</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-009

1. Sample No. ....	<u>2301N009</u>	11. Wire run out(m) .....	<u>8.2</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>8.2</u>
4. Station No. ....	<u>1</u>	estimated by .....	
5. Position .....	<u>69° 00' 00" S</u>	14. Flow-meter used .....	
	<u>39° 35' 00" E</u>	15. Flow-meter reading .....	
6. Sea depth(m) .....	<u>10</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>1.12</u>
7. Date & time(LMT) .....	<u>Jan. 23 '82, 10:46</u>	calculated by .....	<u>Assumption</u>
(GMT) .....		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>2080</u>
10. Duration of haul .....			

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 <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	38					38	34
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	1845					1845	1647
Cyclopoida Copepoda			II-9-2	125			313	279
Harpacticoida Copepoda	I-9-3	13					13	12
10. Copepoda, nauplius			II-10	9			23	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	2					2	2
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	17					17	15
22. Thaliacea							0	0
23. Egg	I-23	53					53	47
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	20					20	18
28. Unidentified forms	I-28	4					4	4
29. Radiolaria							0	0
<b>Total</b>		<b>1993</b>		<b>134</b>			<b>2329</b>	<b>2080</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-010

1. Sample No. ....	<u>2301N010</u>	11. Wire run out(m) .....	<u>10.2</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>10.2</u>
4. Station No. ....	<u>1</u>	estimated by .....	
5. Position.....	<u>69° 00'00"S</u>	14. Flow-meter used .....	
	<u>39° 35'00"E</u>	15. Flow-meter reading.....	
6. Sea depth(m).....	<u>10</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>1.42</u>
7. Date & time(LMT)...	<u>Feb. 11 '82, 22:20</u>	calculated by...	<u>Assumption</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	
9. Method of haul....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1176</u>
10. Duration of haul...			

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 <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	57					57	40
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	10					10	7
Cyclopoida Copepoda			II-9-2	228			1140	803
Harpacticoida Copepoda	I-9-3	29					29	20
10. Copepoda, nauplius			II-10	18			90	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	4
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	141					141	99
22. Thaliacea							0	0
23. Egg	I-23	182					182	128
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	11					11	8
28. Unidentified forms	I-28	4					4	3
29. Radiolaria							0	0
<b>Total</b>		<b>440</b>		<b>246</b>			<b>1670</b>	<b>1176</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-011

1. Sample No. ....	<u>2301N011</u>	11. Wire run out(m) .....	<u>9.0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>9.0</u>
4. Station No. ....	<u>1</u>	estimated by .....	
5. Position .....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 35'00"E</u>	15. Flow-meter reading .....	<u>74</u>
6. Sea depth(m) .....	<u>10</u>	16. Volume of water filtered(m <sup>3</sup> ) ..	<u>1.10</u>
7. Date & time(LMT) ..	<u>Mar. 29 '82, 10:45</u>	calculated by ..	<u>Flow-meter</u>
(GMT) ..		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>0.4</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>714</u>
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 <sup>3</sup>
	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
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	2					2	2
7. Cladocera							0	0
8. Ostracoda	I-8	2					2	2
9. Calanoida Copepoda	I-9-1	1					1	1
Cyclopoida Copepoda			II-9-2	133			266	242
Harpacticoida Copepoda	I-9-3	96					96	87
10. Copepoda, nauplius			II-10	194			388	353
11. Cumacea							0	0
12. Isopoda							0	0
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	1
19. Cephalopoda							0	0
20. Other Mollusca	I-20	1					1	1
21. Appendicularia	I-21	7					7	6
22. Thaliacea							0	0
23. Egg	I-23	17					17	15
24. Euphausiacea, nauplius							0	0
25. Nematoda	I-25	2					2	2
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
<b>Total</b>		<b>131</b>		<b>327</b>			<b>785</b>	<b>714</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-012

1. Sample No. ....	<u>2301N012</u>	11. Wire run out(m) .....	<u>7.0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	.....
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>7.0</u>
4. Station No. ....	<u>1</u>	estimated by .....	.....
5. Position.....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 35'00"E</u>	15. Flow-meter reading.....	<u>60</u>
6. Sea depth(m).....	<u>10</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>0.86</u>
7. Date & time(LMT)...	<u>Apr. 21 '82, 09:45</u>	calculated by...	<u>Flow-meter</u>
(GMT)...	.....	17. Wet weight(mg) per m <sup>3</sup> .....	.....
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.0</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>2587</u>
10. Duration of haul...	.....		

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 <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	43					43	50
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	1					1	1
7. Cladocera							0	0
8. Ostracoda	I-8	1					1	1
9. Calanoida Copepoda	I-9-1	14					14	16
Cyclopoida Copepoda			II-9-2	267			890	1035
Harpacticoida Copepoda	I-9-3	109					109	127
10. Copepoda, nauplius	I-10	24	II-10	322			1097	1276
11. Cumacea							0	0
12. Isopoda							0	0
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	60					60	70
22. Thaliacea							0	0
23. Egg	I-23	9					9	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	1					1	1
29. Radiolaria							0	0
<b>Total</b>		<b>262</b>		<b>589</b>			<b>2225</b>	<b>2587</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-013

1. Sample No. ....	<u>2301N013</u>	11. Wire run out(m) .....	<u>10.0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>10.0</u>
4. Station No. ....	<u>1</u>	estimated by .....	
5. Position .....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 35'00"E</u>	15. Flow-meter reading .....	<u>80</u>
6. Sea depth(m) .....	<u>10</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>1.21</u>
7. Date & time(LMT) ...	<u>May 10 '82, 09:55</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>0.8</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1945</u>
10. Duration of haul ...			

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 <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	18					18	15
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	2					2	2
9. Calanoida Copepoda	I-9-1	65					65	54
Cyclopoida Copepoda			II-9-2	314			1570	1298
Harpacticoida Copepoda	I-9-3	155					155	128
10. Copepoda, nauplius	I-10	7	II-10	98			497	411
11. Cumacea							0	0
12. Isopoda							0	0
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	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	20					20	17
22. Thaliacea							0	0
23. Egg	I-23	21					21	17
24. Euphausiacea, nauplius							0	0
25. Nematoda	I-25	2					2	2
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
<b>Total</b>		<b>291</b>		<b>412</b>			<b>2351</b>	<b>1945</b>



## ZOOPLANKTON RECORD SHEET

Series No. NOR-014

1. Sample No. ....	<u>2301N014</u>	11. Wire run out(m) .....	<u>9.0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>9.0</u>
4. Station No. ....	<u>1</u>	estimated by .....	
5. Position .....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 35'00"E</u>	15. Flow-meter reading .....	<u>110</u>
6. Sea depth(m) .....	<u>10</u>	16. Volume of water filtered(m <sup>3</sup> ) ...	<u>1.64</u>
7. Date & time(LMT) ...	<u>May 24 '82, 09:35</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>0.8</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>3133</u>
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 <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	2					2	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	1					1	1
7. Cladocera							0	0
8. Ostracoda	I-8	1					1	1
9. Calanoida Copepoda	I-9-1	142					142	87
Cyclopoida Copepoda			II-9-2	381			3810	2323
Harpacticoida Copepoda	I-9-3	109					109	66
10. Copepoda, nauplius	I-10	26	II-10	86			886	540
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda	I-13	1					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	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	181					181	110
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	2
29. Radiolaria							0	0
<b>Total</b>		<b>468</b>		<b>467</b>			<b>5138</b>	<b>3133</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-015

1. Sample No. ....	<u>2301N015</u>	11. Wire run out(m) .....	<u>9.5</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>9.5</u>
4. Station No. ....	<u>1</u>	estimated by .....	
5. Position.....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 35'00"E</u>	15. Flow-meter reading.....	<u>70</u>
6. Sea depth(m).....	<u>10</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>1.05</u>
7. Date & time(LMT)...	<u>June 16 '82, 10:20</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>0.8</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>4855</u>
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 <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	10					10	10
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	4					4	4
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	283					283	270
Cyclopoida Copepoda			II-9-2	348			3480	3314
Harpacticoida Copepoda	I-9-3	638					638	608
10. Copepoda, nauplius	I-10	115	II-10	55			665	663
11. Cumacea							0	0
12. Isopoda							0	0
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	2
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	3					3	3
22. Thaliacea							0	0
23. Egg	I-23	10					10	10
24. Euphausiacea, nauplius							0	0
25. Nematoda	I-25	1					1	1
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms							0	0
29. Radiolaria							0	0
<b>Total</b>		<b>1066</b>		<b>403</b>			<b>5096</b>	<b>4855</b>

ZOOPLANKTON RECORD SHEET

Series No. NOR-016

1. Sample No. ....	<u>2301N016</u>	11. Wire run out(m) .....	<u>9.5</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>9.5</u>
4. Station No. ....	<u>1</u>	estimated by .....	
5. Position .....	<u>69° 00' 00" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 35' 00" E</u>	15. Flow-meter reading .....	<u>106</u>
6. Sea depth(m) .....	<u>10</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>1.58</u>
7. Date & time(LMT) ...	<u>July 5 '82, 11:05</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>0.4</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1297</u>
10. Duration of haul ...			

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 <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	2					2	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	6					6	4
7. Cladocera							0	0
8. Ostracoda	I-8	2					2	1
9. Calanoida Copepoda	I-9-1	176					176	111
Cyclopoida Copepoda			II-9-2	295			1475	934
Harpacticoida Copepoda	I-9-3	82					82	52
10. Copepoda, nauplius	I-10	46	II-10	50			296	187
11. Cumacea							0	0
12. Isopoda							0	0
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	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	4					4	3
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	1
28. Unidentified forms	I-28	2					2	1
29. Radiolaria							0	0
Total		324		345			2049	1297

## ZOOPLANKTON RECORD SHEET

Series No. NOR-017

1. Sample No. ....	<u>2301NO17</u>	11. Wire run out(m) .....	<u>9.5</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>9.5</u>
4. Station No. ....	<u>1</u>	estimated by .....	
5. Position .....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 35'00"E</u>	15. Flow-meter reading .....	<u>73</u>
6. Sea depth(m) .....	<u>10</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>1.09</u>
7. Date & time(LMT)...	<u>July 27 '82, 10:30</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>0.8</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1867</u>
10. Duration of haul .....			

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 <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	5					5	5
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	5					5	5
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	56					56	51
Cyclopoida Copepoda			II-9-2	282			1410	1294
Harpacticoida Copepoda	I-9-3	158					158	145
10. Copepoda, nauplius			II-10	76			380	349
11. Cumacea							0	0
12. Isopoda							0	0
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	2
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	12					12	11
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	4					4	4
28. Unidentified forms	I-28	1					1	1
29. Radiolaria							0	0
<b>Total</b>		<b>243</b>		<b>358</b>			<b>2033</b>	<b>1867</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-018

1. Sample No. ....	<u>2301N018</u>	11. Wire run out(m) .....	<u>6.5</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>6.5</u>
4. Station No. ....	<u>1</u>	estimated by .....	
5. Position .....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 35'00"E</u>	15. Flow-meter reading .....	<u>64</u>
6. Sea depth(m) .....	<u>10</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>0.91</u>
7. Date & time(LMT) .....	<u>Aug. 13 '82, 10:05</u>	calculated by .....	<u>Flow-meter</u>
(GMT) .....		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>0.6</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>2966</u>
10. Duration of haul .....			

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 <sup>3</sup>
	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	8
7. Cladocera							0	0
8. Ostracoda	I-8	3					3	3
9. Calanoida Copepoda	I-9-1	78					78	86
Cyclopoida Copepoda			II-9-2	291			970	1066
Harpacticoida Copepoda	I-9-3	69					69	76
10. Copepoda, nauplius			II-10	466			1553	1707
11. Cumacea							0	0
12. Isopoda							0	0
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	9
22. Thaliacea							0	0
23. Egg	I-23	7					7	8
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	1
28. Unidentified forms	I-28	2					2	2
29. Radiolaria							0	0
<b>Total</b>		<b>175</b>		<b>757</b>			<b>2698</b>	<b>2966</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-019

1. Sample No. ....	<u>2301N019</u>	11. Wire run out(m) .....	<u>6.5</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>6.5</u>
4. Station No. ....	<u>1</u>	estimated by .....	
5. Position .....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 35'00"E</u>	15. Flow-meter reading .....	<u>60</u>
6. Sea depth(m) .....	<u>10</u>	16. Volume of water filtered(m <sup>3</sup> ) ...	<u>0.85</u>
7. Date & time(LMT) ...	<u>Aug. 30 '82, 10:10</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.2</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1623</u>
10. Duration of haul ...			

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 <sup>3</sup>
	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
2. Siphonophora	I-2	1					1	1
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	20					20	24
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	69					69	81
Cyclopoida Copepoda			II-9-2	270			900	1059
Harpacticoida Copepoda	I-9-3	45					45	53
10. Copepoda, nauplius			II-10	91			303	356
11. Cumacea							0	0
12. Isopoda							0	0
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	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	8					8	9
22. Thaliacea							0	0
23. Egg	I-23	27					27	32
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	5
29. Radiolaria							0	0
<b>Total</b>		<b>177</b>		<b>361</b>			<b>1380</b>	<b>1623</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-020

1. Sample No. ....	<u>2301N020</u>	11. Wire run out(m) .....	<u>7.0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	.....
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>7.0</u>
4. Station No. ....	<u>1</u>	estimated by .....	.....
5. Position.....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 35'00"E</u>	15. Flow-meter reading.....	<u>51</u>
6. Sea depth(m).....	<u>10</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>0.73</u>
7. Date & time(LMT)...	<u>Sep. 23 '82, 10:08</u>	calculated by...	<u>Flow-meter</u>
(GMT)...	.....	17. Wet weight(mg) per m <sup>3</sup> .....	.....
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>0.6</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>2390</u>
10. Duration of haul...	.....		

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 <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	6					6	8
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	71					71	97
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	55					55	75
Cyclopoida Copepoda			II-9-2	311			778	1066
Haracticoida Copepoda	I-9-3	32					32	44
10. Copepoda, nauplius			II-10	282			705	966
11. Cumacea							0	0
12. Isopoda							0	0
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	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	3					3	4
22. Thaliacea							0	0
23. Egg	I-23	88					88	121
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					1	1
28. Unidentified forms	I-28	5					5	7
29. Radiolaria							0	0
<b>Total</b>		<b>262</b>		<b>593</b>			<b>1745</b>	<b>2390</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-021

1. Sample No. ....	<u>2301N021</u>	11. Wire run out(m) .....	<u>7.0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>7.0</u>
4. Station No. ....	<u>1</u>	estimated by .....	
5. Position.....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 35'00"E</u>	15. Flow-meter reading.....	<u>65</u>
6. Sea depth(m).....	<u>10</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>0.93</u>
7. Date & time(LMT)...	<u>Oct. 18 '82, 09:20</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>0.8</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1109</u>
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 <sup>3</sup>
	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	54					54	58
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	47					47	51
Cyclopoida Copepoda	I-9-2	487					487	524
Harpacticoida Copepoda	I-9-3	18					18	19
10. Copepoda, nauplius	I-10	107					107	115
11. Cumacea							0	0
12. Isopoda							0	0
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	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	3					3	3
22. Thaliacea							0	0
23. Egg	I-23	311					311	334
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	2					2	2
28. Unidentified forms	I-28	2					2	2
29. Radiolaria							0	0
<b>Total</b>		<b>1032</b>					<b>1032</b>	<b>1109</b>



## ZOOPLANKTON RECORD SHEET

Series No. NOR-022

1. Sample No. ....	<u>2301N022</u>	11. Wire run out(m) .....	<u>7.0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>7.0</u>
4. Station No. ....	<u>1</u>	estimated by .....	
5. Position .....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 35'00"E</u>	15. Flow-meter reading .....	<u>82</u>
6. Sea depth(m) .....	<u>10</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>1.17</u>
7. Date & time(LMT)...	<u>Nov. 2 '82, 09:05</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>0.8</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>2037</u>
10. Duration of haul...			

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 <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	21					21	18
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	244					244	209
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	205					205	175
Cyclopoida Copepoda			II-9-2	262			873	746
Harpacticoida Copepoda	I-9-3	57					57	49
10. Copepoda, nauplius			II-10	89			297	254
11. Cumacea							0	0
12. Isopoda							0	0
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	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	6					6	5
22. Thaliacea							0	0
23. Egg	I-23	660					660	564
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	7					7	6
28. Unidentified forms	I-28	12					12	10
29. Radiolaria							0	0
Total		1213		351			2383	2037

## ZOOPLANKTON RECORD SHEET

Series No. NOR-023

1. Sample No. ....	<u>2301N023</u>	11. Wire run out(■) .....	<u>6.0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (■) .....	<u>6.0</u>
4. Station No. ....	<u>1</u>	estimated by .....	
5. Position .....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 35'00"E</u>	15. Flow-meter reading .....	<u>60</u>
6. Sea depth(■) .....	<u>10</u>	16. Volume of water filtered(■ <sup>3</sup> )...	<u>0.83</u>
7. Date & time(LMT)...	<u>Nov. 15 '82, 08:55</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per ■ <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100μ■)</u>	18. Settling volume(cc) per ■ <sup>3</sup> .....	<u>0.8</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per ■ <sup>3</sup> .....	<u>1716</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 2/5 Sample ] [ Sort II ]		[ / Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per ■ <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	303					303	365
7. Cladocera							0	0
8. Ostracoda	I-8	1					1	1
9. Calanoida Copepoda	I-9-1	114					114	137
Cyclopoida Copepoda			II-9-2	300			750	904
Harpacticoida Copepoda	I-9-3	43					43	52
10. Copepoda, nauplius	I-10	16	II-10	39			114	137
11. Cumacea							0	0
12. Isopoda							0	0
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	2
22. Thaliacea							0	0
23. Egg	I-23	46					46	55
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	43					43	52
28. Unidentified forms	I-28	8					8	10
29. Radiolaria							0	0
<b>Total</b>		<b>577</b>		<b>339</b>			<b>1425</b>	<b>1716</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-024

1. Sample No. ....	<u>2301N024</u>	11. Wire run out(m) .....	<u>7.0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>7.0</u>
4. Station No. ....	<u>1</u>	estimated by .....	
5. Position.....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 35'00"E</u>	15. Flow-meter reading.....	<u>68</u>
6. Sea depth(m).....	<u>10</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>0.98</u>
7. Date & time(LMT)...	<u>Dec. 2 '82, 08:26</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100µm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.8</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1230</u>
10. Duration of haul...			

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 <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	7					7	7
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	102					102	104
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	97					97	99
Cyclopoida Copepoda			II-9-2	165			550	561
Harpacticoida Copepoda	I-9-3	75					75	77
10. Copepoda, nauplius	I-10	7	II-10	28			100	102
11. Cumacea							0	0
12. Isopoda							0	0
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	3
22. Thaliacea							0	0
23. Egg	I-23	190					190	194
24. Euphausiacea, nauplius	I-24	1					1	1
25. Nematoda	I-25	1					1	1
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	57					57	58
28. Unidentified forms	I-28	23					23	23
29. Radiolaria							0	0
<b>Total</b>		<b>563</b>		<b>193</b>			<b>1206</b>	<b>1230</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-025

1. Sample No. ....	<u>2301N025</u>	11. Wire run out(m) .....	<u>6.5</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>6.5</u>
4. Station No. ....	<u>1</u>	estimated by .....	
5. Position .....	<u>69° 00' 00" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 35' 00" E</u>	15. Flow-meter reading .....	<u>62</u>
6. Sea depth(m) .....	<u>10</u>	16. Volume of water filtered(m <sup>3</sup> ) ...	<u>0.88</u>
7. Date & time(LMT) ...	<u>Dec. 17 '82, 08:52</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>0.8</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1484</u>
10. Duration of haul ...			

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 <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	4					4	5
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	125					125	142
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	23					23	26
Cyclopoida Copepoda			II-9-2	277			693	788
Harpacticoida Copepoda	I-9-3	52					52	59
10. Copepoda, nauplius			II-10	55			138	157
11. Cumacea							0	0
12. Isopoda	I-12	1					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	2					2	2
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg	I-23	56					56	64
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	199					199	226
28. Unidentified forms	I-28	12					12	14
29. Radiolaria							0	0
<b>Total</b>		<b>474</b>		<b>332</b>			<b>1305</b>	<b>1484</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-026

1. Sample No. ....	<u>2301N026</u>	11. Wire run out(m) .....	<u>7.5</u>
2. JARE .....	<u>23</u>	12. Wire angle(') .....	
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>7.5</u>
4. Station No. ....	<u>1</u>	estimated by .....	
5. Position .....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 35'00"E</u>	15. Flow-meter reading .....	<u>70</u>
6. Sea depth(m) .....	<u>10</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>1.01</u>
7. Date & time(LMT)...	<u>Dec. 28 '82, 08:59</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>2133</u>
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 <sup>3</sup>
	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	128					128	127
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	1284					1284	1271
Cyclopoida Copepoda	I-9-2	480					480	475
Harpacticoida Copepoda	I-9-3	104					104	103
10. Copepoda, nauplius	I-10	85					85	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	4					4	4
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	5					5	5
22. Thaliacea							0	0
23. Egg	I-23	25					25	25
24. Euphausiacea, nauplius	I-24	1					1	1
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	38					38	38
28. Unidentified forms							0	0
29. Radiolaria							0	0
<b>Total</b>		<b>2154</b>					<b>2154</b>	<b>2133</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-027

1. Sample No. ....	<u>2301N027</u>	11. Wire run out(m) .....	<u>7.5</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>7.5</u>
4. Station No. ....	<u>1</u>	estimated by .....	
5. Position.....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 35'00"E</u>	15. Flow-meter reading.....	<u>63</u>
6. Sea depth(m).....	<u>10</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>0.91</u>
7. Date & time(LMT)...	<u>Jan. 15 '83, 08:18</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>2947</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 9/50 Sample ] [ Sort II ]		[ / Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					1	1
2. Siphonophora	I-2	10					10	11
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	3					3	3
6. Polychaeta	I-6	744					744	818
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	64					64	70
Cyclopoida Copepoda			II-9-2	223			1239	1362
Harpacticoida Copepoda	I-9-3	109					109	120
10. Copepoda, nauplius			II-10	11			61	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	11					11	12
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	20					20	22
22. Thaliacea							0	0
23. Egg	I-23	123					123	135
24. Euphausiacea, nauplius	I-24	2					2	2
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	290					290	319
28. Unidentified forms	I-28	5					5	5
29. Radiolaria							0	0
<b>Total</b>		<b>1382</b>		<b>234</b>			<b>2682</b>	<b>2947</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-028

1. Sample No. ....	<u>2301N028</u>	11. Wire run out(m) .....	<u>7.0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>7.0</u>
4. Station No. ....	<u>1</u>	estimated by .....	
5. Position.....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 35'00"E</u>	15. Flow-meter reading.....	<u>59</u>
6. Sea depth(m).....	<u>10</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>0.85</u>
7. Date & time(LMT)...	<u>Jan. 28 '83, 08:45</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>2972</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 7/25 Sample ] [ Sort II ]		[ / Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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
2. Siphonophora	I-2	1					1	1
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	181					181	213
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	38					38	45
Cyclopoida Copepoda			II-9-2	231			825	971
Harpacticoida Copepoda	I-9-3	262					262	308
10. Copepoda, nauplius	I-10	2	II-10	57			206	242
11. Cumacea							0	0
12. Isopoda							0	0
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	4
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	300					300	353
22. Thaliacea							0	0
23. Egg	I-23	268					268	315
24. Euphausiacea, nauplius	I-24	4					4	5
25. Nematoda	I-25	4					4	5
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	416					416	489
28. Unidentified forms	I-28	16					16	19
29. Radiolaria							0	0
<b>Total</b>		<b>1497</b>		<b>288</b>			<b>2526</b>	<b>2972</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-029

1. Sample No. ....	2302N001	11. Wire run out(m) .....	26.0
2. JARE .....	23	12. Wire angle(°) .....	
3. Area .....	Syowa Station	13. Depth of haul (m) .....	26.0
4. Station No. ....	2	estimated by .....	
5. Position .....	69° 00'00"S	14. Flow-meter used .....	
	39° 36'00"E	15. Flow-meter reading .....	
6. Sea depth(m) .....	25	16. Volume of water filtered(m <sup>3</sup> ) ..	2.90
7. Date & time(LMT) ...	Jan. 27 '82, 10:50	calculated by ...	Assumption
	(GMT) ...	17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	NORPAC(100 μm)	18. Settling volume(cc) per m <sup>3</sup> .....	
9. Method of haul .....	Vertical	19. Total number per m <sup>3</sup> .....	1489
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 <sup>3</sup>
	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	45					45	16
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	223					223	77
Cyclopoida Copepoda			II-9-2	266			2660	917
Harpacticoida Copepoda	I-9-3	4					4	1
10. Copepoda, nauplius			II-10	78			780	269
11. Cumacea							0	0
12. Isopoda							0	0
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	169					169	58
22. Thaliacea							0	0
23. Egg	I-23	367					367	127
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	43					43	15
28. Unidentified forms	I-28	23					23	8
29. Radiolaria							0	0
<b>Total</b>		<b>876</b>		<b>344</b>			<b>4316</b>	<b>1489</b>



## ZOOPLANKTON RECORD SHEET

Series No. NOR-030

1. Sample No. ....	<u>2302N002</u>	11. Wire run out(m) .....	<u>26.0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>26.0</u>
4. Station No.....	<u>2</u>	estimated by .....	
5. Position.....	<u>69° 00'00"S</u>	14. Flow-meter used .....	
	<u>39° 36'00"E</u>	15. Flow-meter reading.....	
6. Sea depth(m).....	<u>25</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>2.90</u>
7. Date & time(LMT)...	<u>Jan. 27 '82, 13:15</u>	calculated by...	<u>Assumption</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1097</u>
10. Duration of haul...			

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 <sup>3</sup>
	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	4					4	1
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	35					35	12
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	19					19	7
Cyclopoida Copepoda			II-9-2	470			2350	810
Harpacticoida Copepoda	I-9-3	47					47	16
10. Copepoda, nauplius			II-10	29			145	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	I-18	7					7	2
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	234					234	81
22. Thaliacea							0	0
23. Egg	I-23	275					275	95
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	34					34	12
28. Unidentified forms	I-28	31					31	11
29. Radiolaria							0	0
Total		687		499			3182	1097

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-031

1. Sample No. ....	2302N024	11. Wire run out(m) .....	28.0
2. JARE .....	23	12. Wire angle(°) .....	
3. Area .....	Syowa Station	13. Depth of haul (m) .....	28.0
4. Station No. ....	2	estimated by .....	
5. Position .....	69° 00'00"S	14. Flow-meter used .....	
	39° 36'00"E	15. Flow-meter reading .....	
6. Sea depth(m) .....	25	16. Volume of water filtered(m <sup>3</sup> ) .....	3.13
7. Date & time(LMT) .....	Feb. 12 '82, 21:20	calculated by .....	Assumption
	(GMT) .....	17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	NORPAC(100 μm)	18. Settling volume(cc) per m <sup>3</sup> .....	
9. Method of haul .....	Vertical	19. Total number per m <sup>3</sup> .....	1402
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 <sup>3</sup>
	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	71					71	23
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	43					43	14
Cyclopoida Copepoda			II-9-2	255			2550	815
Harpacticoida Copepoda	I-9-3	22					22	7
10. Copepoda, nauplius			II-10	45			450	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	I-21	775					775	248
22. Thaliacea							0	0
23. Egg	I-23	431					431	138
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	26					26	8
28. Unidentified forms	I-28	12					12	4
29. Radiolaria							0	0
<b>Total</b>		<b>1385</b>		<b>300</b>			<b>4385</b>	<b>1402</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-032

1. Sample No. ....	<u>2302N025</u>	11. Wire run out(m) .....	<u>25.0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>25.0</u>
4. Station No. ....	<u>2</u>	estimated by .....	
5. Position .....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 36'00"E</u>	15. Flow-meter reading .....	<u>164</u>
6. Sea depth(m) .....	<u>25</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>2.59</u>
7. Date & time(LMT) ...	<u>Mar. 29 '82, 12:00</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>0.4</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>139</u>
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 <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	4					4	2
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	2					2	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	4					4	2
Cyclopoida Copepoda			II-9-2	76			152	59
Harpacticoida Copepoda	I-9-3	40					40	15
10. Copepoda, nauplius	I-10	36					36	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	2					2	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	98					98	38
22. Thaliacea							0	0
23. Egg	I-23	12					12	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	6					6	2
29. Radiolaria							0	0
<b>Total</b>		<b>204</b>		<b>76</b>			<b>356</b>	<b>139</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-033

1. Sample No. ....	<u>2302N026</u>	11. Wire run out(m) .....	<u>25.0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	
3. Area .....	<u>Syo wa Station</u>	13. Depth of haul (m) .....	<u>25.0</u>
4. Station No. ....	<u>2</u>	estimated by .....	
5. Position .....	<u>69° 00' 00" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 36' 00" E</u>	15. Flow-meter reading .....	<u>215</u>
6. Sea depth(m) .....	<u>25</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>3.40</u>
7. Date & time(LMT) ...	<u>Apr. 21 '82, 11:30</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.6</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1612</u>
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 <sup>3</sup>
	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							0	0
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	40					40	12
Cyclopoida Copepoda			II-9-2	277			2770	815
Harpacticoida Copepoda	I-9-3	51					51	15
10. Copepoda, nauplius			II-10	251			2510	738
11. Cumacea							0	0
12. Isopoda							0	0
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	101					101	30
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	I-28	1					1	+
29. Radiolaria							0	0
<b>Total</b>		<b>201</b>		<b>528</b>			<b>5481</b>	<b>1612</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-034

1. Sample No. ....	<u>23Q2N027</u>	11. Wire run out(m) .....	<u>25.0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>25.0</u>
4. Station No. ....	<u>2</u>	estimated by .....	
5. Position .....	<u>69° 00' 00" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 36' 00" E</u>	15. Flow-meter reading .....	<u>183</u>
6. Sea depth(m) .....	<u>25</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>2.89</u>
7. Date & time(LMT) .....	<u>May 10 '82, 11:35</u>	calculated by .....	<u>Flow-meter</u>
(GMT) .....		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>0.8</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1399</u>
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 <sup>3</sup>
	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	110					110	38
Cyclopoida Copepoda			II-9-2	324			3240	1121
Harpacticoida Copepoda	I-9-3	41					41	14
10. Copepoda, nauplius			II-10	65			650	225
11. Cumacea							0	0
12. Isopoda							0	0
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	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							0	0
29. Radiolaria							0	0
<b>Total</b>		<b>153</b>		<b>389</b>			<b>4043</b>	<b>1399</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-035

1. Sample No. ....	<u>2302N028</u>	11. Wire run out(m) .....	<u>25.0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>25.0</u>
4. Station No. ....	<u>2</u>	estimated by .....	
5. Position .....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 36'00"E</u>	15. Flow-meter reading .....	<u>221</u>
6. Sea depth(m) .....	<u>25</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>3.49</u>
7. Date & time(LMT) .....	<u>May 24 '82, 11:29</u>	calculated by .....	<u>Flow-meter</u>
(GMT) .....		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.4</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>3781</u>
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 <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	2					2	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	2					2	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	520					520	149
Cyclopoida Copepoda			II-9-2	914			9140	2619
Harpacticoida Copepoda	I-9-3	65					65	19
10. Copepoda, nauplius			II-10	343			3430	983
11. Cumacea							0	0
12. Isopoda							0	0
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	2
22. Thaliacea							0	0
23. Egg	I-23	25					25	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
<b>Total</b>		<b>620</b>		<b>1257</b>			<b>13190</b>	<b>3781</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-036

1. Sample No. ....	<u>2302N029</u>	11. Wire run out(m) .....	<u>25.0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>25.0</u>
4. Station No. ....	<u>2</u>	estimated by .....	
5. Position.....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 36'00"E</u>	15. Flow-meter reading.....	<u>213</u>
6. Sea depth(m).....	<u>25</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>3.37</u>
7. Date & time(LMT)...	<u>June 16 '82, 12:10</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.0</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>3306</u>
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 <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	2					2	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	410					410	122
Cyclopoida Copepoda			II-9-2	925			9250	2745
Harpacticoida Copepoda	I-9-3	39					39	12
10. Copepoda, nauplius			II-10	142			1420	421
11. Cumacea							0	0
12. Isopoda							0	0
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	I-27	2					2	1
28. Unidentified forms	I-28	1					1	+
29. Radiolaria							0	0
<b>Total</b>		<b>468</b>		<b>1067</b>			<b>11138</b>	<b>3306</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-037

1. Sample No. ....	<u>2302N030</u>	11. Wire run out(m) .....	<u>23.0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>23.0</u>
4. Station No. ....	<u>2</u>	estimated by .....	
5. Position .....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 36'00"E</u>	15. Flow-meter reading .....	<u>157</u>
6. Sea depth(m) .....	<u>25</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>2.47</u>
7. Date & time(LMT)...	<u>July 5 '82, 13:30</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>0.4</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>2614</u>
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 <sup>3</sup>
	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	280					280	113
Cyclopoida Copepoda			II-9-2	520			5200	2105
Harpacticoida Copepoda	I-9-3	28					28	11
10. Copepoda, nauplius			II-10	94			940	381
11. Cumacea							0	0
12. Isopoda							0	0
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	3
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
<b>Total</b>		<b>317</b>		<b>614</b>			<b>6457</b>	<b>2614</b>

+ : less than 1 indiv./m<sup>3</sup>



## ZOOPLANKTON RECORD SHEET

Series No. NOR-038

1. Sample No. ....	<u>2302N031</u>	11. Wire run out(m) .....	<u>22.0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>22.0</u>
4. Station No. ....	<u>2</u>	estimated by .....	
5. Position .....	<u>69° 00' 00" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 36' 00" E</u>	15. Flow-meter reading .....	<u>155</u>
6. Sea depth(m) .....	<u>25</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>2.42</u>
7. Date & time(LMT) ...	<u>July 27 '82, 13:34</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>0.8</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>2750</u>
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 <sup>3</sup>
	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	3
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	277					277	114
Cyclopoida Copepoda			II-9-2	520			5200	2149
Harpacticoida Copepoda	I-9-3	55					55	23
10. Copepoda, nauplius			II-10	108			1080	446
11. Cumacea							0	0
12. Isopoda							0	0
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	33					33	14
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
<b>Total</b>		<b>374</b>		<b>628</b>			<b>6654</b>	<b>2750</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-039

1. Sample No. ....	<u>2302N032</u>	11. Wire run out(m) .....	<u>23.0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>23.0</u>
4. Station No. ....	<u>2</u>	estimated by .....	
5. Position .....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 36'00"E</u>	15. Flow-meter reading .....	<u>157</u>
6. Sea depth(m) .....	<u>25</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>2.47</u>
7. Date & time(LMT) .....	<u>Aug. 13 '82, 13:31</u>	calculated by .....	<u>Flow-meter</u>
(GMT) .....		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.0</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1918</u>
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 <sup>3</sup>
	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	2					2	1
4. Ctenophora							0	0
5. Chaetognatha	I-5	3					3	1
6. Polychaeta	I-6	13					13	5
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	125					125	51
Cyclopoida Copepoda			II-9-2	330			3300	1336
Harpacticoida Copepoda	I-9-3	42					42	17
10. Copepoda, nauplius			II-10	121			1210	490
11. Cumacea							0	0
12. Isopoda							0	0
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	22					22	9
22. Thaliacea							0	0
23. Egg	I-23	7					7	3
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	4					4	2
28. Unidentified forms	I-28	5					5	2
29. Radiolaria							0	0
<b>Total</b>		<b>226</b>		<b>451</b>			<b>4736</b>	<b>1918</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-040

1. Sample No. ....	<u>2302N033</u>	11. Wire run out(m) .....	<u>22.5</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>22.5</u>
4. Station No.....	<u>2</u>	estimated by .....	
5. Position.....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 36'00"E</u>	15. Flow-meter reading.....	<u>138</u>
6. Sea depth(m).....	<u>25</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>2.17</u>
7. Date & time(LMT)...	<u>Aug. 30 '82, 13:48</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>0.8</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1310</u>
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 <sup>3</sup>
	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	41					41	19
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	149					149	69
Cyclopoida Copepoda			II-9-2	190			1900	876
Harpacticoida Copepoda	I-9-3	50					50	23
10. Copepoda, nauplius			II-10	62			620	286
11. Cumacea							0	0
12. Isopoda							0	0
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	31					31	14
22. Thaliacea							0	0
23. Egg	I-23	45					45	21
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	I-28	3					3	1
29. Radiolaria							0	0
<b>Total</b>		<b>321</b>		<b>252</b>			<b>2841</b>	<b>1310</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-041

1. Sample No. ....	2302N034	11. Wire run out(m) .....	22.9
2. JARE .....	23	12. Wire angle(°) .....	
3. Area .....	Syowa Station	13. Depth of haul (m) .....	22.9
4. Station No. ....	2	estimated by .....	
5. Position .....	69° 00'00"S	14. Flow-meter used .....	RGS No. 952
	39° 36'00"E	15. Flow-meter reading .....	148
6. Sea depth(m) .....	25	16. Volume of water filtered(m <sup>3</sup> ) ..	2.32
7. Date & time(LMT) ...	Sep. 23 '82, 15:03	calculated by ...	Flow-meter
	(GMT) ...	17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	NORPAC(100 μm)	18. Settling volume(cc) per m <sup>3</sup> .....	0.8
9. Method of haul .....	Vertical	19. Total number per m <sup>3</sup> .....	1068
10. Duration of haul ...			

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 <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	2					2	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	76					76	33
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	173					173	75
Cyclopoida Copepoda			II-9-2	255			1275	550
Harpacticoida Copepoda	I-9-3	78					78	34
10. Copepoda, nauplius			II-10	146			730	315
11. Cumacea							0	0
12. Isopoda							0	0
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	35					35	15
22. Thaliacea							0	0
23. Egg	I-23	89					89	38
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	9					9	4
28. Unidentified forms	I-28	6					6	3
29. Radiolaria							0	0
<b>Total</b>		<b>469</b>		<b>401</b>			<b>2474</b>	<b>1068</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-042

1. Sample No. .... <u>2302N035</u>	11. Wire run out(m) ..... <u>22.0</u>
2. JARE..... <u>23</u>	12. Wire angle(°).....
3. Area..... <u>Syowa Station</u>	13. Depth of haul (m) ..... <u>22.0</u>
4. Station No. .... <u>2</u>	estimated by .....
5. Position..... <u>69° 00' 00" S</u>	14. Flow-meter used ..... <u>RGS NO.952</u>
<u>39° 36' 00" E</u>	15. Flow-meter reading..... <u>160</u>
6. Sea depth(m)..... <u>25</u>	16. Volume of water filtered(m <sup>3</sup> )... <u>2.51</u>
7. Date & time(LMT)... <u>Oct. 18 '82, 10:57</u>	calculated by... <u>Flow-meter</u>
(GMT)...	17. Wet weight(mg) per m <sup>3</sup> .....
8. Net used..... <u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> ..... <u>1.0</u>
9. Method of haul..... <u>Vertical</u>	19. Total number per m <sup>3</sup> ..... <u>1812</u>
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 <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	2					2	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	313					313	125
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	346					346	138
Cyclopoida Copepoda			II-9-2	325			3250	1295
Harpacticoida Copepoda	I-9-3	29					29	12
10. Copepoda, nauplius			II-10	25			250	100
11. Cumacea							0	0
12. Isopoda							0	0
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	22					22	9
22. Thaliacea							0	0
23. Egg	I-23	317					317	126
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		1046		350			4546	1812

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-043

1. Sample No. ....	<u>2302N036</u>	11. Wire run out(m) .....	<u>22.0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>22.0</u>
4. Station No. ....	<u>2</u>	estimated by .....	
5. Position .....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 36'00"E</u>	15. Flow-meter reading .....	<u>160</u>
6. Sea depth(m) .....	<u>25</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>2.51</u>
7. Date & time(LMT)...	<u>Nov. 2 '82, 10:40</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.0</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>993</u>
10. Duration of haul...			

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 <sup>3</sup>
	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	290					290	116
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	321					321	128
Cyclopoida Copepoda			II-9-2	233			1165	464
Harpacticoida Copepoda	I-9-3	68					68	27
10. Copepoda, nauplius			II-10	46			230	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							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	18					18	7
22. Thaliacea							0	0
23. Egg	I-23	379					379	151
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	20					20	8
28. Unidentified forms	I-28	1					1	+
29. Radiolaria							0	0
<b>Total</b>		<b>1098</b>		<b>279</b>			<b>2493</b>	<b>993</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-044

1. Sample No. ....	<u>2302N037</u>	11. Wire run out(m) .....	<u>22.0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>22.0</u>
4. Station No. ....	<u>2</u>	estimated by .....	
5. Position.....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 36'00"E</u>	15. Flow-meter reading.....	<u>141</u>
6. Sea depth(m).....	<u>25</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>2.21</u>
7. Date & time(LMT)...	<u>Nov. 15 '82, 10:25</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100µm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>0.8</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>720</u>
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 <sup>3</sup>
	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	70					70	32
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	112					112	51
Cyclopoida Copepoda			II-9-2	86			860	389
Harpacticoida Copepoda	I-9-3	61					61	28
10. Copepoda, nauplius			II-10	26			260	118
11. Cumacea							0	0
12. Isopoda							0	0
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	3					3	1
22. Thaliacea							0	0
23. Egg	I-23	146					146	66
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	62					62	28
28. Unidentified forms	I-28	13					13	6
29. Radiolaria							0	0
<b>Total</b>		<b>471</b>		<b>112</b>			<b>1591</b>	<b>720</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-045

1. Sample No. ....	<u>2302N038</u>	11. Wire run out(m) .....	<u>22.0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>22.0</u>
4. Station No. ....	<u>2</u>	estimated by .....	
5. Position .....	<u>69° 00' 00" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 36' 00" E</u>	15. Flow-meter reading .....	<u>143</u>
6. Sea depth(m) .....	<u>25</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>2.24</u>
7. Date & time(LMT) ...	<u>Dec. 2 '82, 09:53</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.4</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>963</u>
10. Duration of haul ...			

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 <sup>3</sup>
	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	231					231	103
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	210					210	94
Cyclopoida Copepoda			II-9-2	184			920	411
Harpacticoida Copepoda	I-9-3	40					40	18
10. Copepoda, nauplius			II-10	29			145	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							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	523					523	233
24. Euphausiacea, nauplius	I-24	3					3	1
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	57					57	25
28. Unidentified forms	I-28	27					27	12
29. Radiolaria							0	0
<b>Total</b>		<b>1094</b>		<b>213</b>			<b>2159</b>	<b>963</b>



## ZOOPLANKTON RECORD SHEET

Series No. NOR-046

1. Sample No. ....	<u>2302N039</u>	11. Wire run out(m) .....	<u>22.5</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>22.5</u>
4. Station No. ....	<u>2</u>	estimated by .....	
5. Position .....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 36'00"E</u>	15. Flow-meter reading .....	<u>126</u>
6. Sea depth(m) .....	<u>25</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>1.98</u>
7. Date & time(LMT) ...	<u>Dec. 17 '82, 10:24</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.4</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>2228</u>
10. Duration of haul ...			

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 <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	2					2	1
2. Siphonophora	I-2	3					3	2
3. Other medusae	I-3	3					3	2
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	520					520	263
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	133					133	67
Cyclopoida Copepoda			II-9-2	387			1935	977
Harpacticoida Copepoda	I-9-3	136					136	69
10. Copepoda, nauplius			II-10	74			370	187
11. Cumacea							0	0
12. Isopoda							0	0
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	9					9	5
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	7					7	4
22. Thaliacea							0	0
23. Egg	I-23	518					518	262
24. Euphausiacea, nauplius	I-24	4					4	2
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	705					705	356
28. Unidentified forms	I-28	59					59	30
29. Radiolaria	I-29	1					1	1
Total		2100		461			4405	2228

## ZOOPLANKTON RECORD SHEET

Series No. NOR-047

1. Sample No. ....	<u>2302N040</u>	11. Wire run out(m) .....	<u>23.0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>23.0</u>
4. Station No. ....	<u>2</u>	estimated by .....	
5. Position .....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No 9 &amp;</u>
	<u>39° 36'00"E</u>	15. Flow-meter reading .....	<u>131</u>
6. Sea depth(m) .....	<u>25</u>	16. Volume of water filtered(m <sup>3</sup> ) ..	<u>2.06</u>
7. Date & time(LMT) ...	<u>Dec. 28 '82, 14:00</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>2926</u>
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 <sup>3</sup>
	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	3					3	1
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	1393					1393	676
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	115					115	56
Cyclopoida Copepoda			II-9-2	327			3270	1587
Harpacticoida Copepoda	I-9-3	148					148	72
10. Copepoda, nauplius			II-10	67			670	325
11. Cumacea							0	0
12. Isopoda							0	0
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	33					33	16
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	11					11	5
22. Thaliacea							0	0
23. Egg	I-23	269					269	131
24. Euphausiacea, nauplius	I-24	6					6	3
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	100					100	49
28. Unidentified forms	I-28	10					10	5
29. Radiolaria							0	0
<b>Total</b>		<b>2088</b>		<b>394</b>			<b>6028</b>	<b>2926</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-048

1. Sample No. ....	<u>2302N041</u>	11. Wire run out(m) .....	<u>24.5</u>
2. JARE.....	<u>23</u>	12. Wire angle(').....	
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>24.5</u>
4. Station No. ....	<u>2</u>	estimated by .....	
5. Position.....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 36'00"E</u>	15. Flow-meter reading.....	<u>179</u>
6. Sea depth(m).....	<u>25</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>2.83</u>
7. Date & time(LMT)...	<u>Jan. 15 '83, 10:30</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>2102</u>
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 <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	9					9	3
2. Siphonophora							0	0
3. Other medusae	I-3	5					5	2
4. Ctenophora							0	0
5. Chaetognatha	I-5	1					1	+
6. Polychaeta	I-6	1179					1179	417
7. Cladocera							0	0
8. Ostracoda	I-8	1					1	+
9. Calanoida Copepoda	I-9-1	97					97	34
Cyclopoida Copepoda			II-9-2	253			2530	894
Harpacticoida Copepoda	I-9-3	422					422	149
10. Copepoda, nauplius			II-10	35			350	124
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	19					19	7
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	85					85	30
22. Thaliacea							0	0
23. Egg	I-23	542					542	192
24. Euphausiacea, nauplius	I-24	14					14	5
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	659					659	233
28. Unidentified forms	I-28	33					33	12
29. Radiolaria							0	0
<b>Total</b>		<b>3067</b>		<b>288</b>			<b>5947</b>	<b>2102</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-049

1. Sample No. ....	<u>2302N042</u>	11. Wire run out (m) .....	<u>25.0</u>
2. JARE .....	<u>23</u>	12. Wire angle (°) .....	
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>25.0</u>
4. Station No. ....	<u>2</u>	estimated by .....	
5. Position .....	<u>69° 00' 00" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 36' 00" E</u>	15. Flow-meter reading .....	<u>182</u>
6. Sea depth (m) .....	<u>25</u>	16. Volume of water filtered (m <sup>3</sup> ) ...	<u>2.88</u>
7. Date & time (LMT) ...	<u>Jan. 27 '83, 11:10</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight (mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC (100 μm)</u>	18. Settling volume (cc) per m <sup>3</sup> .....	
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1049</u>
10. Duration of haul ...			

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 <sup>3</sup>
	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	380					380	132
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	78					78	27
Cyclopoida Copepoda			II-9-2	240			1200	417
Harpacticoida Copepoda	I-9-3	246					246	85
10. Copepoda, nauplius			II-10	29			145	50
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea	I-15	5					5	2
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	5					5	2
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	121					121	42
22. Thaliacea							0	0
23. Egg	I-23	661					661	230
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	160					160	56
28. Unidentified forms	I-28	17					17	6
29. Radiolaria	I-29	1					1	+
<b>Total</b>		<b>1675</b>		<b>269</b>			<b>3020</b>	<b>1049</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-050

1. Sample No. ....	<u>2303N001</u>	11. Wire run out(m) .....	<u>47.0</u>
2. JARE.....	<u>23</u>	12. Wire angle(').....	_____
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>47.0</u>
4. Station No. ....	<u>3</u>	estimated by .....	_____
5. Position.....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading.....	<u>253</u>
6. Sea depth(m).....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>4.12</u>
7. Date & time(LMT)...	<u>Mar. 1 '82, 13:05</u>	calculated by...	<u>Flow-meter</u>
(GMT)...	_____	17. Wet weight(mg) per m <sup>3</sup> .....	_____
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	_____
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1171</u>
10. Duration of haul...	_____		

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/2 Sample ] [ Sort II ]		[ 1/10 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	1			2	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta			II-6	59			118	29
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	1	II-9-1	169			339	82
Cyclopoida Copepoda					III-9-2	340	3400	825
Harpacticoida Copepoda			II-9-3	10			20	5
10. Copepoda, nauplius					III-10	8	80	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			II-18	1			2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	184			368	89
22. Thaliacea							0	0
23. Egg			II-23	231			462	112
24. Euphausiacea, nauplius			II-24	1			2	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms			II-27	5			10	2
28. Unidentified forms			II-28	11			22	5
29. Radiolaria							0	0
Total		1		672		348	4825	1171

+ : less than 1 indiv./m<sup>3</sup>

ZOOPLANKTON RECORD SHEET

Series No. NOR-051

1. Sample No. ....	<u>2303N002</u>	11. Wire run out(m) .....	<u>47.5</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>47.5</u>
4. Station No. ....	<u>3</u>	estimated by .....	
5. Position .....	<u>68° 59'57"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 37'16"E</u>	15. Flow-meter reading .....	<u>237</u>
6. Sea depth(m) .....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> ) ..	<u>3.86</u>
7. Date & time(LMT) ...	<u>Mar. 1 '82, 18:26</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1725</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/2 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora			II-2	4			8	2
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha			II-5	1			2	1
6. Polychaeta			II-6	77			154	40
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	1	II-9-1	104			209	54
Cyclopoida Copepoda					III-9-2	244	4880	1264
Harpacticoida Copepoda			II-9-3	20			40	10
10. Copepoda, nauplius					III-10	6	120	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			II-18	5			10	3
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	374			748	194
22. Thaliacea							0	0
23. Egg			II-23	205			410	106
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms			II-27	7			14	4
28. Unidentified forms			II-28	30			60	16
29. Radiolaria							0	0
Total		1		827		250	6655	1725

## ZOOPLANKTON RECORD SHEET

Series No. NOR-052

1. Sample No. ....	<u>2303N003</u>	11. Wire run out(m) .....	<u>47.0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>47.0</u>
4. Station No. ....	<u>3</u>	estimated by .....	
5. Position.....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading.....	<u>240</u>
6. Sea depth(m).....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>3.91</u>
7. Date & time(LMT)...	<u>Mar. 2 '82, 00:00</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>713</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/2 Sample ] [ Sort II ]		[ 1/10 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	1			2	1
2. Siphonophora							0	0
3. Other medusae			II-3	4			8	2
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta			II-6	32			64	16
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	1	II-9-1	49			99	25
Cyclopoida Copepoda					III-9-2	194	1940	496
Harpacticoida Copepoda			II-9-3	6			12	3
10. Copepoda, nauplius					III-10	5	50	13
11. Cumacea							0	0
12. Isopoda							0	0
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	2			4	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	185			370	95
22. Thaliacea							0	0
23. Egg			II-23	104			208	53
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms			II-27	7			14	4
28. Unidentified forms			II-28	7			14	4
29. Radiolaria							0	0
<b>Total</b>		<b>1</b>		<b>397</b>		<b>199</b>	<b>2785</b>	<b>713</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-053

1. Sample No. ....	<u>2303N004</u>	11. Wire run out(m) .....	<u>49.0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>49.0</u>
4. Station No. ....	<u>3</u>	estimated by .....	
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading .....	<u>295</u>
6. Sea depth(m) .....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> ) ...	<u>4.81</u>
7. Date & time(LMT) ...	<u>Mar. 2 '82, 05:13</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1843</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/2 Sample ] [ Sort I ]		[ 1/20 Sample ] [ Sort II ]		[ / Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	3					6	1
2. Siphonophora							0	0
3. Other medusae	I-3	1					2	+
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	76					152	32
7. Cladocera							0	0
8. Ostracoda	I-8	4					8	2
9. Calanoida Copepoda	I-9-1	176					352	73
Cyclopoida Copepoda			II-9-2	308			6160	1281
Harpacticoida Copepoda	I-9-3	16					32	7
10. Copepoda, nauplius			II-10	48			960	200
11. Cumacea							0	0
12. Isopoda							0	0
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	401					802	167
22. Thaliacea							0	0
23. Egg	I-23	167					334	69
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	8					16	3
28. Unidentified forms	I-28	19					38	8
29. Radiolaria							0	0
<b>Total</b>		<b>871</b>		<b>356</b>			<b>8852</b>	<b>1343</b>

+ : less than 1 indiv./m<sup>3</sup>



## ZOOPLANKTON RECORD SHEET

Series No. NOR-054

1. Sample No. ....	<u>2303N005</u>	11. Wire run out(m) .....	<u>48.0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>48.0</u>
4. Station No. ....	<u>3</u>	estimated by .....	
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading .....	<u>302</u>
6. Sea depth(m) .....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>4.92</u>
7. Date & time(LMT) ...	<u>Mar. 2 '82, 12:02</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1171</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/2 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ / Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	2					4	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	64					128	26
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	139					278	57
Cyclopoida Copepoda			II-9-2	379			3790	770
Harpacticoida Copepoda	I-9-3	14					28	6
10. Copepoda, nauplius			II-10	51			510	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					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	266					532	108
22. Thaliacea							0	0
23. Egg	I-23	224					448	91
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	7					14	3
28. Unidentified forms	I-28	13					26	5
29. Radiolaria							0	0
<b>Total</b>		<b>730</b>		<b>430</b>			<b>5760</b>	<b>1171</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-055

1. Sample No. ....	<u>2303N006</u>	11. Wire run out(m) .....	<u>47.0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>0</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>47.0</u>
4. Station No. ....	<u>3</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59'57"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 37'16"E</u>	15. Flow-meter reading .....	<u>333</u>
6. Sea depth(m) .....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>5.41</u>
7. Date & time(LMT)...	<u>Mar. 31 '82, 12:25</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.2</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>261</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/4 Sample ] [ Sort II ]		[ / Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	I-2	3					3	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	11					11	2
Cyclopoida Copepoda			II-9-2	210			840	155
Harpacticoida Copepoda	I-9-3	37					37	7
10. Copepoda, nauplius			II-10	92			368	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	4					4	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	120					120	22
22. Thaliacea							0	0
23. Egg	I-23	6					6	1
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
<b>Total</b>		<b>200</b>		<b>302</b>			<b>1408</b>	<b>261</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-056

1. Sample No. ....	<u>2303N007</u>	11. Wire run out(m) .....	<u>48.0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>0</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>48.0</u>
4. Station No. ....	<u>3</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading.....	<u>310</u>
6. Sea depth(m).....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>5.05</u>
7. Date & time(LMT)...	<u>Mar. 31 '82, 18:00</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>4.8</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1377</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/2 Sample ] [ Sort I ]		[ 1/20 Sample ] [ Sort II ]		[ / Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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					2	+
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	8					16	3
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	23					46	9
Cyclopoida Copepoda			II-9-2	158			3180	626
Harpacticoida Copepoda	I-9-3	28					56	11
10. Copepoda, nauplius			II-10	174			3480	689
11. Cumacea							0	0
12. Isopoda							0	0
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					6	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	79					158	31
22. Thaliacea							0	0
23. Egg	I-23	3					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	11					22	4
29. Radiolaria							0	0
<b>Total</b>		<b>156</b>		<b>332</b>			<b>6952</b>	<b>1377</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-057

1. Sample No. ....	<u>2303N008</u>	11. Wire run out(m) .....	<u>46.0</u>
2. JARE .....	<u>23</u>	12. Wire angle(') .....	<u>10</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>45.3</u>
4. Station No. ....	<u>3</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading .....	<u>298</u>
6. Sea depth(m) .....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> ) ...	<u>4.85</u>
7. Date & time(LMT) ...	<u>Apr. 22 '82, 10:10</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>2.0</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1199</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/2 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	4			8	2
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta			II-6	1			2	+
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda			II-9-1	33			66	14
Cyclopoida Copepoda					III-9-2	147	2940	606
Harpacticoida Copepoda			II-9-3	44			88	18
10. Copepoda, nauplius					III-10	122	2440	503
11. Cumacea							0	0
12. Isopoda							0	0
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	?
21. Appendicularia			II-21	122			244	50
22. Thaliacea	I-22	1					1	+
23. Egg			II-23	11			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			II-28	1			2	+
29. Radiolaria							0	0
<b>Total</b>		<b>1</b>		<b>217</b>		<b>269</b>	<b>5815</b>	<b>1199</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-058

1. Sample No. ....	<u>2303N009</u>	11. Wire run out(m) .....	<u>47.0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>2</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>47.0</u>
4. Station No. ....	<u>3</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading .....	<u>270</u>
6. Sea depth(m) .....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>4.40</u>
7. Date & time(LMT) ...	<u>May 11 '82, 10:10</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>0.4</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>604</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/2 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ / Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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					4	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	84					168	38
Cyclopoida Copepoda			II-9-2	193			1930	439
Harpacticoida Copepoda	I-9-3	14					28	6
10. Copepoda, nauplius			II-10	40			400	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					6	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					2	+
22. Thaliacea							0	0
23. Egg	I-23	58					116	26
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					2	+
29. Radiolaria							0	0
<b>Total</b>		<b>163</b>		<b>233</b>			<b>2656</b>	<b>604</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-059

1. Sample No. ....	<u>2303N010</u>	11. Wire run out(m) .....	<u>46.0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>0</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>46.0</u>
4. Station No. ....	<u>3</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading .....	<u>299</u>
6. Sea depth(m) .....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> ) ...	<u>4.87</u>
7. Date & time(LMT) ...	<u>May 25 '82, 10:37</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.2</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1626</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/2 Sample ] [ Sort I ]		[ 1/20 Sample ] [ Sort II ]		[ / Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	3					6	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	234					468	96
Cyclopoida Copepoda			II-9-2	275			5500	1129
Harpacticoida Copepoda	I-9-3	14					28	6
10. Copepoda, nauplius			II-10	87			1740	357
11. Cumacea							0	0
12. Isopoda							0	0
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					4	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	5					10	2
22. Thaliacea							0	0
23. Egg	I-23	76					152	31
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					2	+
28. Unidentified forms	I-28	5					10	2
29. Radiolaria							0	0
<b>Total</b>		<b>340</b>		<b>362</b>			<b>7920</b>	<b>1626</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-060

1. Sample No. ....	<u>2303N011</u>	11. Wire run out(m) .....	<u>45.0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>4</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>44.9</u>
4. Station No. ....	<u>3</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59'57"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 37'16"E</u>	15. Flow-meter reading.....	<u>329</u>
6. Sea depth(m).....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>5.35</u>
7. Date & time(LMT)...	<u>June 10 '82, 11:03</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.8</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>2818</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/2 Sample ] [ Sort I ]		[ 1/20 Sample ] [ Sort II ]		[ / Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	15					30	6
2. Siphonophora	I-2	1					2	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	4					8	1
7. Cladocera							0	0
8. Ostracoda	I-8	1					2	+
9. Calanoida Copepoda	I-9-1	457					914	171
Cyclopoida Copepoda			II-9-2	615			12300	2299
Harpacticoida Copepoda	I-9-3	48					96	18
10. Copepoda, nauplius			II-10	82			1640	307
11. Cumacea							0	0
12. Isopoda							0	0
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					4	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	7					14	3
22. Thaliacea							0	0
23. Egg	I-23	24					48	9
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	3					6	1
28. Unidentified forms	I-28	6					12	2
29. Radiolaria							0	0
Total		568		697			15076	2818

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-061

1. Sample No. ....	<u>2303N012</u>	11. Wire run out(m) .....	<u>47.0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>0</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>47.0</u>
4. Station No. ....	<u>3</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading .....	<u>300</u>
6. Sea depth(m) .....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> ) ...	<u>4.88</u>
7. Date & time(LMT) ...	<u>June 10 '82, 18:10</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.6</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>3094</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/2 Sample ] [ Sort I ]		[ 1/20 Sample ] [ Sort II ]		[ / Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	2					4	1
2. Siphonophora							0	0
3. Other medusae	I-3	4					8	2
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	437					874	179
Cyclopoida Copepoda			II-9-2	645			12900	2643
Harpacticoida Copepoda	I-9-3	19					38	8
10. Copepoda, nauplius			II-10	52			1040	213
11. Cumacea							0	0
12. Isopoda							0	0
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					8	2
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	4					8	2
22. Thaliacea							0	0
23. Egg	I-23	84					168	34
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	20					40	8
28. Unidentified forms	I-28	4					8	2
29. Radiolaria							0	0
<b>Total</b>		<b>578</b>		<b>697</b>			<b>15080</b>	<b>3094</b>



## ZOOPLANKTON RECORD SHEET

Series No. NOR-062

1. Sample No. ....	<u>2303N013</u>	11. Wire run out(m) .....	<u>47.0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>0</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>47.0</u>
4. Station No. ....	<u>3</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading .....	<u>280</u>
6. Sea depth(m) .....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>4.56</u>
7. Date & time(LMT) .....	<u>June 11 '82, 23:00</u>	calculated by .....	<u>Flow-meter</u>
(GMT) .....		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>2.0</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>2587</u>
10. Duration of haul .....			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/2 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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			II-3	4			8	2
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta			II-6	3			6	1
7. Cladocera							0	0
8. Ostracoda			II-8	1			2	+
9. Calanoida Copepoda			II-9-1	487			974	214
Cyclopoida Copepoda					III-9-2	514	10280	2254
Harpacticoida Copepoda			II-9-3	17			34	7
10. Copepoda, nauplius					III-10	21	420	92
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea	I-15	1					1	+
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	28			56	12
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms			II-27	5			10	2
28. Unidentified forms			II-28	3			6	1
29. Radiolaria							0	0
<b>Total</b>		1		548		535	11797	2587

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-063

1. Sample No. ....	<u>2303NO14</u>	11. Wire run out(m) .....	<u>47.0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>0</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>47.0</u>
4. Station No. ....	<u>3</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59'57"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 37'16"E</u>	15. Flow-meter reading.....	<u>315</u>
6. Sea depth(m).....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>5.12</u>
7. Date & time(LMT)...	<u>June 12 '82, 07:25</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>2.0</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>3447</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/2 Sample ] [ Sort I ]		[ 1/20 Sample ] [ Sort II ]		[ / Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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					4	1
3. Other medusae	I-3	4					8	2
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	529					1058	207
Cyclopoida Copepoda			II-9-2	720			14400	2813
Harpacticoida Copepoda	I-9-3	22					44	9
10. Copepoda, nauplius			II-10	102			2040	398
11. Cumacea							0	0
12. Isopoda							0	0
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					12	2
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	1					2	+
22. Thaliacea							0	0
23. Egg	I-23	27					54	11
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	9					18	4
28. Unidentified forms	I-28	1					2	+
29. Radiolaria							0	0
<b>Total</b>		<b>601</b>		<b>822</b>			<b>17642</b>	<b>3447</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-064

1. Sample No. ....	<u>2303N015</u>	11. Wire run out(m) .....	<u>47.0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>0</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>47.0</u>
4. Station No. ....	<u>3</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading .....	<u>257</u>
6. Sea depth(m) .....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>4.18</u>
7. Date & time(LMT) ...	<u>June 12 '82, 12:00</u>	calculated by .....	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>2.0</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>4460</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/2 Sample ] [ Sort I ]		[ 1/20 Sample ] [ Sort II ]		[ / Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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					8	2
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	5					10	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	501					1002	240
Cyclopoida Copepoda			II-9-2	769			15380	3679
Harpacticoida Copepoda	I-9-3	24					48	11
10. Copepoda, nauplius			II-10	106			2120	507
11. Cumacea							0	0
12. Isopoda							0	0
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					8	2
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	4					8	2
22. Thaliacea							0	0
23. Egg	I-23	20					40	10
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	11					22	5
28. Unidentified forms							0	0
29. Radiolaria							0	0
<b>Total</b>		<b>573</b>		<b>875</b>			<b>18646</b>	<b>4460</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-065

1. Sample No. ....	<u>2303N016</u>	11. Wire run out(m) .....	<u>47.0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>0</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>47.0</u>
4. Station No. ....	<u>3</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading .....	<u>303</u>
6. Sea depth(m) .....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>4.93</u>
7. Date & time(LMT) ...	<u>July 7 '82, 10:37</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.6</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1530</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/2 Sample ] [ Sort I ]		[ 1/20 Sample ] [ Sort II ]		[ / Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	8					16	3
4. Ctenophora							0	0
5. Chaetognatha	I-5	3					6	1
6. Polychaeta	I-6	12					24	5
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	322					644	131
Cyclopoida Copepoda			II-9-2	282			5640	1144
Harpacticoida Copepoda	I-9-3	33					66	13
10. Copepoda, nauplius			II-10	54			1080	219
11. Cumacea							0	0
12. Isopoda							0	0
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					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	3					6	1
22. Thaliacea							0	0
23. Egg	I-23	22					44	9
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	3					6	1
28. Unidentified forms	I-28	4					8	2
29. Radiolaria							0	0
Total		411		336			7542	1530

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-066

1. Sample No. ....	<u>2303N017</u>	11. Wire run out(m) .....	<u>47.0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>0</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>47.0</u>
4. Station No. ....	<u>3</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading.....	<u>301</u>
6. Sea depth(m).....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>4.90</u>
7. Date & time(LMT)...	<u>July 29 '82, 10:25</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>2.0</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1153</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/2 Sample ] [ Sort I ]		[ 1/20 Sample ] [ Sort II ]		[ / Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	9					18	4
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	7					14	3
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	154					308	63
Cyclopoida Copepoda			II-9-2	230			4600	939
Harpacticoida Copepoda	I-9-3	33					66	13
10. Copepoda, nauplius			II-10	28			560	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	1					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	19					38	8
22. Thaliacea							0	0
23. Egg	I-23	21					42	9
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					2	+
29. Radiolaria							0	0
Total		245		258			5650	1153

+ : less than indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-067

1. Sample No. ....	<u>2303NO18</u>	11. Wire run out (m) .....	<u>47.0</u>
2. JARE .....	<u>23</u>	12. Wire angle (°) .....	<u>0</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>47.0</u>
4. Station No. ....	<u>3</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading .....	<u>260</u>
6. Sea depth (m) .....	<u>50</u>	16. Volume of water filtered (m <sup>3</sup> ) ...	<u>4.23</u>
7. Date & time (LMT) ...	<u>Aug. 16 '82, 10:15</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight (mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC (100 μm)</u>	18. Settling volume (cc) per m <sup>3</sup> .....	<u>1.0</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>881</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/2 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ / Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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					2	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	7					14	3
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	162					324	77
Cyclopoida Copepoda			II-9-2	243			2430	574
Harpacticoida Copepoda	I-9-3	35					70	17
10. Copepoda, nauplius			II-10	76			760	180
11. Cumacea							0	0
12. Isopoda							0	0
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					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	18					36	9
22. Thaliacea							0	0
23. Egg	I-23	42					84	20
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1					2	+
28. Unidentified forms	I-28	1					2	+
29. Radiolaria							0	0
<b>Total</b>		<b>268</b>		<b>319</b>			<b>3726</b>	<b>881</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-068

1. Sample No. ....	<u>2303NO19</u>	11. Wire run out(m) .....	<u>46.5</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>0</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>46.5</u>
4. Station No. ....	<u>3</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading .....	<u>262</u>
6. Sea depth(m) .....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> ) ...	<u>4.27</u>
7. Date & time(LMT) ...	<u>Sep. 2 '82, 14:42</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>0.8</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>686</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/2 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ / Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	4					8	2
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	20					40	9
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	192					384	90
Cyclopoida Copepoda			II-9-2	180			1800	422
Haracticoida Copepoda	I-9-3	50					100	23
10. Copepoda, nauplius			II-10	48			480	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							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	25					50	12
22. Thaliacea							0	0
23. Egg	I-23	31					62	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	3					6	1
29. Radiolaria							0	0
<b>Total</b>		<b>325</b>		<b>228</b>			<b>2930</b>	<b>686</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-069

1. Sample No. ....	<u>2303N020</u>	11. Wire run out(m) .....	<u>45.0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>3</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>44.9</u>
4. Station No. ....	<u>3</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading .....	<u>252</u>
6. Sea depth(m) .....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>4.10</u>
7. Date & time(LMT) ...	<u>Sep. 16 '82, 10:15</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.2</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>895</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/2 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ / Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	28					56	14
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	295					590	144
Cyclopoida Copepoda			II-9-2	210			2100	512
Harpacticoida Copepoda	I-9-3	23					46	11
10. Copepoda, nauplius			II-10	20			200	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					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	33					66	16
22. Thaliacea							0	0
23. Egg	I-23	297					594	145
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	3					6	1
28. Unidentified forms	I-28	4					8	2
29. Radiolaria							0	0
<b>Total</b>		<b>684</b>		<b>230</b>			<b>3668</b>	<b>895</b>

+ : less than 1 indiv./m<sup>3</sup>



## ZOOPLANKTON RECORD SHEET

Series No. NOR-070

1. Sample No. ....	<u>2303N021</u>	11. Wire run out(m) .....	<u>46.0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>0</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>46.0</u>
4. Station No. ....	<u>3</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59'57"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 37'16"E</u>	15. Flow-meter reading.....	<u>273</u>
6. Sea depth(m).....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>4.44</u>
7. Date & time(LMT)...	<u>Sep. 16 '82, 17:57</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.0</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1027</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/2 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ / Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	47					94	21
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	402					804	181
Cyclopoida Copepoda			II-9-2	289			2890	651
Harpacticoida Copepoda	I-9-3	14					28	6
10. Copepoda, nauplius			II-10	10			100	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					2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	25					50	11
22. Thaliacea							0	0
23. Egg	I-23	289					578	130
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	2					4	1
28. Unidentified forms	I-28	6					12	3
29. Radiolaria							0	0
Total		786		299			4562	1027

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-071

1. Sample No. ....	<u>2303N022</u>	11. Wire run out(m) .....	<u>46.0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>0</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>46.0</u>
4. Station No. ....	<u>3</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading .....	<u>290</u>
6. Sea depth(m) .....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>4.72</u>
7. Date & time(LMT) ...	<u>Sep. 16 '82, 22:22</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.2</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>819</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/2 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ / Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	7					14	3
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	24					48	10
7. Cladocera							0	0
8. Ostracoda	I-8	1					2	+
9. Calanoida Copepoda	I-9-1	346					692	147
Cyclopoida Copepoda			II-9-2	265			2650	561
Harpacticoida Copepoda	I-9-3	16					32	7
10. Copepoda, nauplius			II-10	14			140	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	18					36	8
22. Thaliacea							0	0
23. Egg	I-23	118					236	50
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	4					8	2
28. Unidentified forms	I-28	3					6	1
29. Radiolaria							0	0
Total		537		279			3864	819

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-072

1. Sample No. ....	<u>2303N023</u>	11. Wire run out(m) .....	<u>47.0</u>
2. JARE .....	<u>23</u>	12. Wire angle(') .....	<u>0</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>47.0</u>
4. Station No. ....	<u>3</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading .....	<u>262</u>
6. Sea depth(m) .....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>4.27</u>
7. Date & time(LMT) .....	<u>Sep. 17 '82, 06:37</u>	calculated by .....	<u>Flow-meter</u>
(GMT) .....		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>0.8</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>713</u>
10. Duration of haul .....			

Proportion of Sample sorted	[ 1/2 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ / Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	2					4	1
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	35					70	16
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	299					598	140
Cyclopoida Copepoda			II-9-2	105			1050	246
Harpacticoida Copepoda	I-9-3	26					52	12
10. Copepoda, nauplius			II-10	14			140	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	13					26	6
22. Thaliacea							0	0
23. Egg	I-23	547					1094	256
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	2					4	1
28. Unidentified forms	I-28	4					8	2
29. Radiolaria							0	0
<b>Total</b>		<b>928</b>		<b>119</b>			<b>3046</b>	<b>713</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-073

1. Sample No. ....	<u>2303N024</u>	11. Wire run out(m) .....	<u>47.0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>0</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>47.0</u>
4. Station No. ....	<u>3</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59'57"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 37'16"E</u>	15. Flow-meter reading.....	<u>297</u>
6. Sea depth(m).....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>4.83</u>
7. Date & time(LMT)...	<u>Sep. 17 '82, 10:54</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>0.8</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>679</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/2 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ / Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	6					12	2
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta	I-6	38					76	16
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	414					828	171
Cyclopoida Copepoda			II-9-2	182			1820	377
Harpacticoida Copepoda	I-9-3	25					50	10
10. Copepoda, nauplius			II-10	12			120	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	3					6	1
19. Cephalopoda							0	0
20. Other Mollusca	I-20	1					2	+
21. Appendicularia	I-21	16					32	7
22. Thaliacea							0	0
23. Egg	I-23	149					298	62
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	10					20	4
28. Unidentified forms	I-28	8					16	3
29. Radiolaria							0	0
<b>Total</b>		<b>670</b>		<b>194</b>			<b>3280</b>	<b>679</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-074

1. Sample No. ....	<u>2303N025</u>	11. Wire run out(m) .....	<u>46.5</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>0</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>46.5</u>
4. Station No. ....	<u>3</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading .....	<u>293</u>
6. Sea depth(m) .....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> ) ...	<u>4.77</u>
7. Date & time(LMT) ...	<u>Oct. 8 '82, 14:36</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.2</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>945</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/2 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	1			2	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta			II-6	180			360	75
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	1	II-9-1	416			833	175
Cyclopoida Copepoda					III-9-2	116	2320	486
Harpacticoida Copepoda			II-9-3	6			12	3
10. Copepoda, nauplius					III-10	27	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			II-21	26			52	11
22. Thaliacea							0	0
23. Egg			II-23	184			368	77
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms			II-27	2			4	1
28. Unidentified forms			II-28	9			18	4
29. Radiolaria							0	0
<b>Total</b>		1		824		143	4509	945

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-075

1. Sample No. ....	<u>2303N026</u>	11. Wire run out(m) .....	<u>47.0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>0</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>47.0</u>
4. Station No. ....	<u>3</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading.....	<u>293</u>
6. Sea depth(m).....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>4.78</u>
7. Date & time(LMT)...	<u>Nov. 2 '82, 14:01</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>0.8</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1188</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/2 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora			II-2	3			6	1
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta			II-6	174			348	73
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	43	II-9-1	400			843	176
Cyclopoida Copepoda					III-9-2	134	2680	561
Harpacticoida Copepoda			II-9-3	57			114	24
10. Copepoda, nauplius					III-10	17	340	71
11. Cumacea							0	0
12. Isopoda							0	0
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	13			26	5
22. Thaliacea							0	0
23. Egg			II-23	606			1212	254
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms			II-27	8			16	3
28. Unidentified forms			II-28	47			94	20
29. Radiolaria							0	0
Total		43		1308		151	5679	1188

## ZOOPLANKTON RECORD SHEET

Series No. NOR-076

1. Sample No. ....	<u>2303N027</u>	11. Wire run out (m) .....	<u>46.0</u>
2. JARE .....	<u>23</u>	12. Wire angle (°) .....	<u>0</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>46.0</u>
4. Station No. ....	<u>3</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading .....	<u>298</u>
6. Sea depth (m) .....	<u>50</u>	16. Volume of water filtered (m <sup>3</sup> ) .....	<u>4.85</u>
7. Date & time (LMT) ...	<u>Nov. 15 '82, 14:05</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight (mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC (100 μm)</u>	18. Settling volume (cc) per m <sup>3</sup> .....	<u>0.4</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>473</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/2 Sample ] [ Sort II ]		[ 1/5 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora			II-2	6			12	2
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta			II-6	165			330	68
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	2	II-9-1	137			276	57
Cyclopoida Copepoda					III-9-2	164	820	169
Harpacticoida Copepoda			II-9-3	10			20	4
10. Copepoda, nauplius					III-10	35	175	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			II-21	2			4	1
22. Thaliacea							0	0
23. Egg			II-23	239			478	99
24. Euphausiacea, nauplius			II-24	1			2	+
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms			II-27	75			150	31
28. Unidentified forms			II-28	14			28	6
29. Radiolaria							0	0
Total		2		649		199	2295	473

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-077

1. Sample No. ....	<u>2303N028</u>	11. Wire run out(m) .....	<u>46.0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>0</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>46.0</u>
4. Station No. ....	<u>3</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading .....	<u>273</u>
6. Sea depth(m) .....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>4.44</u>
7. Date & time(LMT) ...	<u>Dec. 2 '82, 13:22</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.8</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>2625</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/2 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	12			24	5
2. Siphonophora							0	0
3. Other medusae			II-3	1			2	+
4. Ctenophora							0	0
5. Chaetognatha			II-5	2			4	1
6. Polychaeta	I-6	1	II-6	412			825	186
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	5	II-9-1	369			743	167
Cyclopoida Copepoda					III-9-2	202	4040	910
Harpacticoida Copepoda			II-9-3	171			342	77
10. Copepoda, nauplius					III-10	55	1100	248
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea	I-15	1					1	+
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			II-21	28			56	13
22. Thaliacea							0	0
23. Egg			II-23	612			1224	276
24. Euphausiacea, nauplius			II-24	8			16	4
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms			II-27	1489			2978	671
28. Unidentified forms			II-28	149			298	67
29. Radiolaria							0	0
Total		7		3254		257	11655	2625

+ : less than 1 indiv./m<sup>3</sup>



ZOOPLANKTON RECORD SHEET

Series No. NOR-078

1. Sample No. ....	<u>2303N029</u>	11. Wire run out(m) .....	<u>45.0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>0</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>45.0</u>
4. Station No. ....	<u>3</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading .....	<u>247</u>
6. Sea depth(m) .....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> ) ...	<u>4.02</u>
7. Date & time(LMT) ...	<u>Dec. 13 '82, 10:12</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>2.4</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1614</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/2 Sample ] [ Sort II ]		[ 1/10 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	II-2	1			3	1
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta			II-6	316			632	157
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	2	II-9-1	299			600	149
Cyclopoida Copepoda					III-9-2	288	2880	716
Harpacticoida Copepoda			II-9-3	89			178	44
10. Copepoda, nauplius					III-10	54	540	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			II-18	1			2	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	23			46	11
22. Thaliacea							0	0
23. Egg			II-23	279			558	139
24. Euphausiacea, nauplius			II-24	9			18	4
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms			II-27	461			922	229
28. Unidentified forms			II-28	54			108	27
29. Radiolaria							0	0
Total		3		1532		342	6487	1614

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-079

1. Sample No. ....	<u>2303N030</u>	11. Wire run out(m) .....	<u>47.0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>0</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>47.0</u>
4. Station No. ....	<u>3</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading.....	<u>252</u>
6. Sea depth(m).....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> )..	<u>4.10</u>
7. Date & time(LMT)...	<u>Dec. 13 '82, 17:15</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.4</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1419</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/2 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	1			2	+
2. Siphonophora			II-2	2			4	1
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta			II-6	263			526	128
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	1	II-9-1	235			471	115
Cyclopoida Copepoda					III-9-2	125	2500	610
Harpacticoida Copepoda			II-9-3	36			72	18
10. Copepoda, nauplius					III-10	21	420	102
11. Cumacea							0	0
12. Isopoda							0	0
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	3			6	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	9			18	4
22. Thaliacea							0	0
23. Egg			II-23	325			650	159
24. Euphausiacea, nauplius			II-24	4			8	2
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms			II-27	518			1036	253
28. Unidentified forms			II-28	53			106	26
29. Radiolaria							0	0
Total		1		1449		146	5819	1419

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-080

1. Sample No. ....	<u>2303N031</u>	11. Wire run out(m) .....	<u>46.5</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>0</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>46.5</u>
4. Station No. ....	<u>3</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading .....	<u>260</u>
6. Sea depth(m) .....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>4.23</u>
7. Date & time(LMT) ...	<u>Dec. 13 '82, 22:45</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.0</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1578</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/2 Sample ] [ Sort I ]		[ 1/20 Sample ] [ Sort II ]		[ / Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera	I-1	1					2	+
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	2					4	1
6. Polychaeta	I-6	356					712	168
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	328					656	155
Cyclopoida Copepoda			II-9-2	157			3140	742
Harpacticoida Copepoda	I-9-3	19					38	9
10. Copepoda, nauplius			II-10	24			480	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	6					12	3
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	4					8	2
22. Thaliacea							0	0
23. Egg	I-23	268					536	127
24. Euphausiacea, nauplius	I-24	4					8	2
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	499					998	236
28. Unidentified forms	I-28	41					82	19
29. Radiolaria							0	0
Total		1528		181			6676	1578

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-081

1. Sample No. ....	<u>2303N032</u>	11. Wire run out(m) .....	<u>46.5</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>0</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>46.5</u>
4. Station No. ....	<u>3</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading .....	<u>267</u>
6. Sea depth(m) .....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>4.35</u>
7. Date & time(LMT) ...	<u>Dec. 14 '82, 06:34</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.0</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1556</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/2 Sample ] [ Sort I ]		[ 1/20 Sample ] [ Sort II ]		[ / Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	276					552	127
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	252					504	116
Cyclopoida Copepoda			II-9-2	160			3200	736
Harpacticoida Copepoda	I-9-3	138					276	63
10. Copepoda, nauplius			II-10	25			500	115
11. Cumacea							0	0
12. Isopoda							0	0
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					14	3
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia	I-21	10					20	5
22. Thaliacea							0	0
23. Egg	I-23	234					468	108
24. Euphausiacea, nauplius	I-24	5					10	2
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	543					1086	50
28. Unidentified forms	I-28	68					136	31
29. Radiolaria							0	0
<b>Total</b>		<b>1533</b>		<b>185</b>			<b>6766</b>	<b>1556</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-082

1. Sample No. ....	<u>2303N033</u>	11. Wire run out(m) .....	<u>46.0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>0</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>46.0</u>
4. Station No. ....	<u>3</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading.....	<u>270</u>
6. Sea depth(m).....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>4.39</u>
7. Date & time(LMT)...	<u>Dec. 14 '82, 11:10</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>2.4</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>2180</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/2 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora			II-2	1			2	+
3. Other medusae	I-3	4					4	1
4. Ctenophora							0	0
5. Chaetognatha	I-5	1					1	+
6. Polychaeta			II-6	495			990	226
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	3	II-9-1	496			995	227
Cyclopoida Copepoda					III-9-2	231	4620	1052
Harpacticoida Copepoda			II-9-3	90			180	41
10. Copepoda, nauplius					III-10	40	800	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			II-18	7			14	3
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	14			28	6
22. Thaliacea							0	0
23. Egg			II-23	175			350	80
24. Euphausiacea, nauplius			II-24	7			14	3
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms			II-27	716			1432	326
28. Unidentified forms			II-28	71			142	32
29. Radiolaria							0	0
Total		8		2072		271	9572	2180

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-083

1. Sample No. ....	<u>2303N034</u>	11. Wire run out(m) .....	<u>45.0</u>
2. JARE.....	<u>23</u>	12. Wire angle(').....	<u>0</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>45.0</u>
4. Station No.....	<u>3</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59'57"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 37'16"E</u>	15. Flow-meter reading.....	<u>268</u>
6. Sea depth(m).....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>4.36</u>
7. Date & time(LMT)...	<u>Dec. 29 '82, 09:28</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1361</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/2 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	2			4	1
2. Siphonophora			II-2	6			12	3
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta			II-6	471			942	216
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	2	II-9-1	331			664	152
Cyclopoida Copepoda					III-9-2	142	2840	651
Harpacticoida Copepoda			II-9-3	23			46	11
10. Copepoda, nauplius					III-10	27	540	124
11. Cumacea							0	0
12. Isopoda							0	0
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	6			12	3
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	17			34	8
22. Thaliacea							0	0
23. Egg			II-23	124			248	57
24. Euphausiacea, nauplius			II-24	6			12	3
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms			II-27	267			534	122
28. Unidentified forms			II-28	21			42	10
29. Radiolaria							0	0
<b>Total</b>		<b>2</b>		<b>1274</b>		<b>169</b>	<b>5930</b>	<b>1361</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-084

1. Sample No. ....	<u>2303N035</u>	11. Wire run out(m) .....	<u>38.0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>0</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>38.0</u>
4. Station No.....	<u>3</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading.....	<u>237</u>
6. Sea depth(m).....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>3.84</u>
7. Date & time(LMT)...	<u>Jan. 15 '83, 14:29</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>2247</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/2 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	12			24	6
2. Siphonophora			II-2	5			10	3
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha			II-5	1			2	1
6. Polychaeta			II-6	838			1676	436
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	1	II-9-1	78			157	41
Cyclopoida Copepoda					III-9-2	153	3060	797
Harpacticoida Copepoda			II-9-3	334			668	174
10. Copepoda, nauplius					III-10	31	620	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			II-18	8			16	4
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	167			334	87
22. Thaliacea							0	0
23. Egg			II-23	263			526	137
24. Euphausiacea, nauplius			II-24	14			28	7
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms			II-27	707			1414	368
28. Unidentified forms			II-28	48			96	25
29. Radiolaria							0	0
<b>Total</b>		<b>1</b>		<b>2475</b>		<b>184</b>	<b>8631</b>	<b>2247</b>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-085

1. Sample No. ....	<u>2303N036</u>	11. Wire run out(m) .....	<u>38.0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>0</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>38.0</u>
4. Station No. ....	<u>3</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 37' 16" E</u>	15. Flow-meter reading.....	<u>227</u>
6. Sea depth(m).....	<u>50</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>3.67</u>
7. Date & time(LMT)...	<u>Jan. 27 '83, 14:48</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>2163</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/2 Sample ] [ Sort II ]		[ 1/10 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera							0	0
2. Siphonophora			II-2	9			18	5
3. Other medusae			II-3	5			10	3
4. Ctenophora							0	0
5. Chaetognatha			II-5	2			4	1
6. Polychaeta			II-6	224			448	122
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	1	II-9-1	164			329	90
Cyclopoida Copepoda					III-9-2	433	4330	1180
Harpacticoida Copepoda			II-9-3	54			108	29
10. Copepoda, nauplius					III-10	33	330	90
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea			II-15	7			14	4
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda			II-18	4			8	2
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	242			484	132
22. Thaliacea							0	0
23. Egg			II-23	215			430	117
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms			II-27	635			1270	346
28. Unidentified forms			II-28	77			154	42
29. Radiolaria							0	0
<b>Total</b>		<b>1</b>		<b>1638</b>		<b>466</b>	<b>7937</b>	<b>2163</b>



## ZOOPLANKTON RECORD SHEET

Series No. NOR-086

1. Sample No. ....	<u>2304N001</u>	11. Wire run out(m) .....	<u>150</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>0</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>150</u>
4. Station No. ....	<u>4</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 38'20"E</u>	15. Flow-meter reading .....	<u>1177</u>
6. Sea depth(m) .....	<u>160</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>19.56</u>
7. Date & time(LMT) .....	<u>Mar. 29 '82, 13:40</u>	calculated by .....	<u>Flow-meter</u>
(GMT) .....		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>3.6</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>436</u>
10. Duration of haul .....			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/2 Sample ] [ Sort II ]		[ 1/16 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	2			4	+
2. Siphonophora			II-2	3			6	+
3. Other medusae	I-3	1					1	+
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta			II-6	12			24	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	14	II-9-1	75			164	8
Cyclopoida Copepoda					III-9-2	314	5024	257
Harpacticoida Copepoda			II-9-3	81			162	8
10. Copepoda, nauplius					III-10	85	1360	70
11. Cumacea							0	0
12. Isopoda							0	0
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			II-20	8			16	1
21. Appendicularia					III-21	108	1728	88
22. Thaliacea							0	0
23. Egg			II-23	7			14	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms			II-27	1			2	+
28. Unidentified forms			II-28	12			24	1
29. Radiolaria							0	0
<b>Total</b>		<b>15</b>		<b>201</b>		<b>507</b>	<b>8529</b>	<b>436</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-087

1. Sample No. ....	<u>2304N002</u>	11. Wire run out(m) .....	<u>150</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>0</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>150</u>
4. Station No. ....	<u>4</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 38'20"E</u>	15. Flow-meter reading .....	<u>1094</u>
6. Sea depth(m) .....	<u>160</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>18.19</u>
7. Date & time(LMT)...	<u>Apr. 21 '82, 14:33</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>5.2</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1718</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/100 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	16			160	9
2. Siphonophora	I-2	3					3	+
3. Other medusae	I-3	1					1	+
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta			II-6	2			20	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	20	II-9-1	47			490	27
Cyclopoida Copepoda					III-9-2	168	16800	924
Harpacticoida Copepoda			II-9-3	17			170	9
10. Copepoda, nauplius					III-10	111	11100	610
11. Cumacea							0	0
12. Isopoda							0	0
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	5			50	3
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	221			2210	121
22. Thaliacea							0	0
23. Egg			II-23	15			150	8
24. Euphausiacea, nauplius			II-24	1			10	1
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1	II-27	1			11	1
28. Unidentified forms	I-28	1	II-28	1			11	1
29. Radiolaria			II-29	5			50	3
Total		26		331		279	31236	1718

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-088

1. Sample No. ....	<u>2304N003</u>	11. Wire run out(m) .....	<u>150</u>
2. JARE.....	<u>23</u>	12. Wire angle(').....	<u>0</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>150</u>
4. Station No. ....	<u>4</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 38'20"E</u>	15. Flow-meter reading.....	<u>1038</u>
6. Sea depth(m).....	<u>160</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>17.25</u>
7. Date & time(LMT)...	<u>May 10 '82, 14:37</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>3.0</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1048</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/100 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	6			60	3
2. Siphonophora	I-2	7	II-2	1			17	1
3. Other medusae	I-3	2					2	+
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta			II-6	3			30	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	92	II-9-1	79			882	51
Cyclopoida Copepoda					III-9-2	157	15700	910
Harpacticoida Copepoda			II-9-3	6			60	3
10. Copepoda, nauplius					III-10	12	1200	70
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			II-18	3			30	2
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	1			10	1
22. Thaliacea							0	0
23. Egg			II-23	8			80	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	+
29. Radiolaria							0	0
<b>Total</b>		<b>108</b>		<b>107</b>		<b>169</b>	<b>18078</b>	<b>1048</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-089

1. Sample No. ....	<u>2304N004</u>	11. Wire run out(m) .....	<u>150</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>0</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>150</u>
4. Station No.....	<u>4</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>69° 00' 00" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 38' 20" E</u>	15. Flow-meter reading.....	<u>1070</u>
6. Sea depth(m).....	<u>160</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>17.78</u>
7. Date & time(LMT)...	<u>May 24 '82, 14:22</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>4.4</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>2171</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/100 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	2			20	1
2. Siphonophora	I-2	4					4	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta			II-6	1			10	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	110	II-9-1	133			1440	81
Cyclopoida Copepoda					III-9-2	337	33700	1895
Harpacticoida Copepoda			II-9-3	4			40	2
10. Copepoda, nauplius					III-10	32	3200	180
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda	I-16	1					1	+
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	8			80	4
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	3	II-27	2			23	1
28. Unidentified forms	I-28	2	II-28	7			72	4
29. Radiolaria			II-29	1			10	1
Total		120		158		369	38600	2171

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-090

1. Sample No. ....	<u>2304N005</u>	11. Wire run out(m) .....	<u>150</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>0</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>150</u>
4. Station No.....	<u>4</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>69° 00' 00" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 38' 20" E</u>	15. Flow-meter reading.....	<u>1167</u>
6. Sea depth(m).....	<u>160</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>19.40</u>
7. Date & time(LMT)...	<u>June 16 '82, 15:25</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>8.4</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>2407</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/100 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	4			40	2
2. Siphonophora	I-2	1					1	+
3. Other medusae	I-3	3					3	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	2					2	+
6. Polychaeta			II-6	10			100	5
7. Cladocera							0	0
8. Ostracoda	I-8	1					1	+
9. Calanoida Copepoda	I-9-1	390	II-9-1	353			3920	202
Cyclopoida Copepoda					III-9-2	349	34900	1799
Harpacticoida Copepoda			II-9-3	8			80	4
10. Copepoda, nauplius					III-10	73	7300	376
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			II-18	3			30	2
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	15			150	8
22. Thaliacea							0	0
23. Egg			II-23	4			40	2
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	17	II-27	8			97	5
28. Unidentified forms	I-28	1	II-28	1			11	1
29. Radiolaria			II-29	1			10	1
Total		416		407		422	46686	2407

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-091

1. Sample No. ....	<u>2304N006</u>	11. Wire run out(m) .....	<u>158</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>2</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>158</u>
4. Station No. ....	<u>4</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 38'20"E</u>	15. Flow-meter reading .....	<u>1018</u>
6. Sea depth(m) .....	<u>160</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>16.92</u>
7. Date & time(LMT) .....	<u>July 10 '82, 11:15</u>	calculated by .....	<u>Flow-meter</u>
(GMT) .....		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>3.4</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1608</u>
10. Duration of haul .....			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/100 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	4					4	+
3. Other medusae	I-3	1	II-3	1			11	1
4. Ctenophora							0	0
5. Chaetognatha	I-5	1					1	+
6. Polychaeta			II-6	3			30	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	422	II-9-1	180			2222	131
Cyclopoida Copepoda					III-9-2	213	21300	1259
Harpacticoida Copepoda			II-9-3	9			90	5
10. Copepoda, nauplius					III-10	33	3300	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			II-18	1			10	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	8			80	5
22. Thaliacea							0	0
23. Egg			II-23	7			70	4
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1	II-27	2			21	1
28. Unidentified forms	I-28	1	II-28	5			51	3
29. Radiolaria			II-29	2			20	1
Total		430		218		246	27210	1608

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-092

1. Sample No. ....	<u>2304N007</u>	11. Wire run out(m) .....	<u>150</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>0</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>150</u>
4. Station No. ....	<u>4</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 38'20"E</u>	15. Flow-meter reading .....	<u>1091</u>
6. Sea depth(m) .....	<u>160</u>	16. Volume of water filtered(m <sup>3</sup> ) ...	<u>18.13</u>
7. Date & time(LMT) ...	<u>July 28 '82, 11:05</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>2.4</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>976</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/100 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	3					3	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	3					3	+
6. Polychaeta			II-6	1			10	1
7. Cladocera							0	0
8. Ostracoda	I-8	2					2	+
9. Calanoida Copepoda	I-9-1	282	II-9-1	146			1742	96
Cyclopoida Copepoda					III-9-2	150	15000	827
Harpacticoida Copepoda			II-9-3	14			140	8
10. Copepoda, nauplius					III-10	7	700	39
11. Cumacea							0	0
12. Isopoda	I-12	1					0	0
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			10	1
22. Thaliacea	I-22	1					1	+
23. Egg			II-23	6			60	3
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	4					4	+
28. Unidentified forms			II-28	2			20	1
29. Radiolaria							0	0
<b>Total</b>		<b>296</b>		<b>170</b>		<b>157</b>	<b>17695</b>	<b>976</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-093

1. Sample No. ....	<u>2304N008</u>	11. Wire run out(m) .....	<u>150</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>0</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>150</u>
4. Station No. ....	<u>4</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>69° 00' 00" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 38' 20" E</u>	15. Flow-meter reading .....	<u>1098</u>
6. Sea depth(m) .....	<u>160</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>18.25</u>
7. Date & time(LMT) ...	<u>Aug. 17 '82, 10:23</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>2.0</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1114</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/100 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	I-5	3					3	+
6. Polychaeta			II-6	10			100	5
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	198	II-9-1	128			1478	81
Cyclopoida Copepoda					III-9-2	164	16400	899
Harpacticoida Copepoda			II-9-3	7			70	4
10. Copepoda, nauplius					III-10	21	2100	115
11. Cumacea							0	0
12. Isopoda							0	0
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	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	8			80	4
22. Thaliacea							0	0
23. Egg			II-23	6			60	3
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	13					13	1
28. Unidentified forms			II-28	1			10	1
29. Radiolaria							0	0
Total		217		161		185	20327	1114

+ : less than 1 indiv./m<sup>3</sup>



## ZOOPLANKTON RECORD SHEET

Series No. NOR-094

1. Sample No. ....	<u>2304N009</u>	11. Wire run out(m) .....	<u>150</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>2</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>150</u>
4. Station No. ....	<u>4</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>69° 00' 00" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 38' 20" E</u>	15. Flow-meter reading .....	<u>1104</u>
6. Sea depth(m) .....	<u>160</u>	16. Volume of water filtered(m <sup>3</sup> ) ..	<u>18.34</u>
7. Date & time(LMT) ...	<u>Aug. 31 '82, 11:23</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.8</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1144</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/100 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	2					2	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	2					2	+
6. Polychaeta			II-6	44			440	24
7. Cladocera							0	0
8. Ostracoda	I-8	3	II-8	1			13	1
9. Calanoida Copepoda	I-9-1	199	II-9-1	209			2289	125
Cyclopoida Copepoda					III-9-2	153	15300	834
Harpacticoida Copepoda			II-9-3	14			140	8
10. Copepoda, nauplius					III-10	25	2500	136
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			II-18	1			10	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	10			100	5
22. Thaliacea							0	0
23. Egg			II-23	14			140	8
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	8					8	+
28. Unidentified forms	I-28	1	II-28	3			31	2
29. Radiolaria							0	0
Total		217		296		178	20977	1144

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-095

1. Sample No. ....	<u>2304N010</u>	11. Wire run out (m) .....	<u>150</u>
2. JARE .....	<u>23</u>	12. Wire angle (°) .....	<u>0</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>150</u>
4. Station No. ....	<u>4</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>69° 00' 00" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 38' 20" E</u>	15. Flow-meter reading .....	<u>1070</u>
6. Sea depth (m) .....	<u>160</u>	16. Volume of water filtered (m <sup>3</sup> ) .....	<u>17.78</u>
7. Date & time (LMT) ...	<u>Sep. 21 '82, 11:18</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight (mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC (100 μm)</u>	18. Settling volume (cc) per m <sup>3</sup> .....	<u>2.0</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>441</u>
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 <sup>3</sup>
	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	3					3	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	3					3	+
6. Polychaeta			II-6	9			90	5
7. Cladocera							0	0
8. Ostracoda	I-8	3	II-8	1			13	1
9. Calanoida Copepoda	I-9-1	111	II-9-1	153			1641	92
Cyclopoida Copepoda			II-9-2	538			5380	303
Harpacticoida Copepoda			II-9-3	6			60	3
10. Copepoda, nauplius			II-10	37			370	21
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea							0	0
16. Decapoda	I-16	1					1	+
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	3			30	2
22. Thaliacea							0	0
23. Egg			II-23	15			150	8
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	4	II-27	2			24	1
28. Unidentified forms			II-28	7			70	4
29. Radiolaria							0	0
Total		125		771			7835	441

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-096

1. Sample No. ....	<u>2304N011</u>	11. Wire run out (m) .....	<u>150</u>
2. JARE .....	<u>23</u>	12. Wire angle (°) .....	<u>3</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>150</u>
4. Station No. ....	<u>4</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 38'20"E</u>	15. Flow-meter reading .....	<u>1228</u>
6. Sea depth (m) .....	<u>160</u>	16. Volume of water filtered (m <sup>3</sup> ) .....	<u>20.41</u>
7. Date & time (LMT) .....	<u>Oct. 19 '82, 09:57</u>	calculated by .....	<u>Flow-meter</u>
(GMT) .....		17. Wet weight (mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC (100 μm)</u>	18. Settling volume (cc) per m <sup>3</sup> .....	<u>1.8</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>542</u>
10. Duration of haul .....			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	II-2	3			31	2
3. Other medusae	I-3	2					2	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	4	II-5	1			14	1
6. Polychaeta			II-6	61			610	30
7. Cladocera							0	0
8. Ostracoda			II-8	1			10	+
9. Calanoida Copepoda	I-9-1	124	II-9-1	172			1844	90
Cyclopoida Copepoda					III-9-2	361	7220	354
Harpacticoida Copepoda			II-9-3	6			60	3
10. Copepoda, nauplius					III-10	26	520	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			II-21	8			80	4
22. Thaliacea							0	0
23. Egg			II-23	52			520	25
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	10	II-27	4			50	2
28. Unidentified forms	I-28	6	II-28	9			96	5
29. Radiolaria							0	0
<b>Total</b>		<b>147</b>		<b>317</b>		<b>387</b>	<b>11057</b>	<b>542</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-097

1. Sample No. ....	<u>2304N012</u>	11. Wire run out(m) .....	<u>150</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>0</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>150</u>
4. Station No. ....	<u>4</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 38'20"E</u>	15. Flow-meter reading.....	<u>10 0</u>
6. Sea depth(m).....	<u>160</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>16 79</u>
7. Date & time(LMT)...	<u>Nov. 3 '82, 14:21</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.4</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>521</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	5	II-2	2			25	1
3. Other medusae	I-3	2	II-3	1			12	1
4. Ctenophora							0	0
5. Chaetognatha	I-5	5					5	+
6. Polychaeta			II-6	51			510	30
7. Cladocera							0	0
8. Ostracoda	I-8	1					1	+
9. Calanoida Copepoda	I-9-1	196	II-9-1	124			1436	86
Cyclopoida Copepoda					III-9-2	202	4040	241
Harpacticoida Copepoda			II-9-3	9			90	5
10. Copepoda, nauplius					III-10	51	1020	61
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea	I-15	1					1	+
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	4			40	2
22. Thaliacea							0	0
23. Egg			II-23	133			1330	79
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	13	II-27	3			43	3
28. Unidentified forms	I-28	9	II-28	19			199	12
29. Radiolaria							0	0
Total		232		346		253	8752	521

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-098

1. Sample No. ....	<u>2304N013</u>	11. Wire run out(m) .....	<u>150</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>0</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>150</u>
4. Station No. ....	<u>4</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 38'20"E</u>	15. Flow-meter reading.....	<u>1078</u>
6. Sea depth(m).....	<u>160</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>17.92</u>
7. Date & time(LMT)...	<u>Nov. 16 '82, 14:28</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>2.4</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>409</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	I-4	3					3	+
5. Chaetognatha	I-5	3					3	+
6. Polychaeta			II-6	28			280	16
7. Cladocera							0	0
8. Ostracoda	I-8	1					1	+
9. Calanoida Copepoda	I-9-1	59	II-9-1	58			639	36
Cyclopoida Copepoda					III-9-2	198	3960	221
Harpacticoida Copepoda			II-9-3	7			70	4
10. Copepoda, nauplius					III-10	22	440	25
11. Cumacea							0	0
12. Isopoda	I-12	1					1	+
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea	I-15	1					1	+
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	2			20	1
22. Thaliacea							0	0
23. Egg			II-23	150			1500	84
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	16	II-27	23			246	14
28. Unidentified forms	I-28	13	II-28	11			123	7
29. Radiolaria			II-29	1			10	1
Total		98		280		220	7298	409

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-099

1. Sample No. ....	<u>2304N014</u>	11. Wire run out(m) .....	<u>150</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>0</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>150</u>
4. Station No. ....	<u>4</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 38'20"E</u>	15. Flow-meter reading .....	<u>1008</u>
6. Sea depth(m) .....	<u>160</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>16.76</u>
7. Date & time(LMT)...	<u>Dec. 4 '82, 08:34</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.6</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>607</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	20					20	1
3. Other medusae	I-3	3					3	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	13					13	1
6. Polychaeta			II-6	108			1080	64
7. Cladocera							0	0
8. Ostracoda	I-8	6					6	+
9. Calanoida Copepoda	I-9-1	88	II-9-1	107			1158	69
Cyclopoida Copepoda					III-9-2	234	4680	279
Harpacticoida Copepoda			II-9-3	4			40	2
10. Copepoda, nauplius					III-10	36	720	43
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea	I-15	12					12	1
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda			II-18	1			10	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	3			30	2
22. Thaliacea							0	0
23. Egg			II-23	191			1910	114
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	8	II-27	39			398	24
28. Unidentified forms	I-28	20	II-28	8			100	6
29. Radiolaria							0	0
<b>Total</b>		<b>170</b>		<b>461</b>		<b>270</b>	<b>10180</b>	<b>607</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-100

1. Sample No. ....	<u>2304N015</u>	11. Wire run out(m) .....	<u>150</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>0</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>150</u>
4. Station No. ....	<u>4</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>69° 00' 00" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 38' 20" E</u>	15. Flow-meter reading .....	<u>1082</u>
6. Sea depth(m) .....	<u>160</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>17.98</u>
7. Date & time(LMT) ...	<u>Dec. 17 '82, 13:25</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>3.2</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>636</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	2			20	1
2. Siphonophora	I-2	20	II-2	3			50	3
3. Other medusae	I-3	7					7	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	5					5	+
6. Polychaeta			II-6	101			1010	56
7. Cladocera							0	0
8. Ostracoda			II-8	1			10	1
9. Calanoida Copepoda	I-9-1	107	II-9-1	125			1357	75
Cyclopoida Copepoda					III-9-2	318	6360	354
Harpacticoida Copepod			II-9-3	27			270	15
10. Copepoda, nauplius					III-10	38	760	42
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea	I-15	17					17	1
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda			II-18	1			10	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	1			10	1
22. Thaliacea							0	0
23. Egg			II-23	56			560	31
24. Euphausiacea, nauplius			II-24	1			10	1
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	3	II-27	84			843	47
28. Unidentified forms	I-28	14	II-28	10			114	6
29. Radiolaria			II-29	1			10	1
Total		173		413		356	11423	636

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-101

1. Sample No. ....	<u>2304N016</u>	11. Wire run out (m) .....	<u>150</u>
2. JARE .....	<u>23</u>	12. Wire angle (°) .....	<u>0</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>150</u>
4. Station No. ....	<u>4</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>69° 00' 00" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 38' 20" E</u>	15. Flow-meter reading .....	<u>1172</u>
6. Sea depth (m) .....	<u>160</u>	16. Volume of water filtered (m <sup>3</sup> ) ..	<u>19.48</u>
7. Date & time (LMT) ...	<u>Dec. 27 '82, 14:54</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight (mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC (100 μm)</u>	18. Settling volume (cc) per m <sup>3</sup> .....	
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>739</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/50 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	24					24	1
3. Other medusae	I-3	1					1	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	6					6	+
6. Polychaeta			II-6	185			1850	95
7. Cladocera							0	0
8. Ostracoda	I-8	1					1	+
9. Calanoida Copepoda	I-9-1	70	II-9-1	117			1240	64
Cyclopoida Copepoda					III-9-2	178	8900	457
Harpacticoida Copepoda			II-9-3	4			40	2
10. Copepoda, nauplius					III-10	22	1100	56
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea	I-15	20					20	1
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda			II-18	1			10	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	3			30	2
22. Thaliacea							0	0
23. Egg			II-23	42			420	22
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1	II-27	65			651	33
28. Unidentified forms			II-28	9			90	5
29. Radiolaria							0	0
Total		123		426		200	14383	739

+ : less than 1 indiv./m<sup>3</sup>



## ZOOPLANKTON RECORD SHEET

Series No. NOR-102

1. Sample No. ....	<u>2304N017</u>	11. Wire run out(m) .....	<u>150</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>0</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>150</u>
4. Station No. ....	<u>4</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 38'20"E</u>	15. Flow-meter reading.....	<u>1092</u>
6. Sea depth(m).....	<u>160</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>18.15</u>
7. Date & time(LMT)...	<u>Jan. 14 '83, 14:40</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>871</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/25 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	5					5	+
3. Other medusae	I-3	2					2	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	3					3	+
6. Polychaeta			II-6	150			1500	83
7. Cladocera							0	0
8. Ostracoda			II-8	1			10	1
9. Calanoida Copepoda	I-9-1	107	II-9-1	85			957	53
Cyclopoida Copepoda					III-9-2	367	9175	506
Harpacticoida Copepoda			II-9-3	133			1330	73
10. Copepoda, nauplius					III-10	33	825	45
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea	I-15	47					47	3
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2	II-18	4			42	2
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	42			420	23
22. Thaliacea							0	0
23. Egg			II-23	37			370	20
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	6	II-27	109			1096	60
28. Unidentified forms	I-28	2					2	+
29. Radiolaria			II-29	3			30	2
<b>Total</b>		<b>174</b>		<b>564</b>		<b>400</b>	<b>15814</b>	<b>871</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-103

1. Sample No. ....	<u>2304N018</u>	11. Wire run out(m) .....	<u>150</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>0</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>150</u>
4. Station No. ....	<u>4</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>69° 00'00"S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 38'20"E</u>	15. Flow-meter reading.....	<u>1130</u>
6. Sea depth(m).....	<u>160</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>18.78</u>
7. Date & time(LMT)...	<u>Jan. 27 '83, 10:35</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>704</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/25 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	9					9	+
3. Other medusae	I-3	1					1	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	7					7	+
6. Polychaeta			II-6	64			640	34
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	351	II-9-1	93			1281	68
Cyclopoida Copepoda					III-9-2	353	8825	470
Harpacticoida Copepoda			II-9-3	31			310	17
10. Copepoda, nauplius					III-10	27	675	36
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea	I-15	10					10	1
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	31			310	17
22. Thaliacea							0	0
23. Egg			II-23	5			50	3
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae	I-26	1					1	+
27. Planktonic larval forms	I-27	3	II-27	103			1033	55
28. Unidentified forms	I-28	6	II-28	3			36	2
29. Radiolaria			II-29	1			10	1
Total		388		331		380	13198	704

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-104

1. Sample No. ....	<u>2304' N001</u>	11. Wire run out(m) .....	<u>150</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>2</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>150</u>
4. Station No. ....	<u>4'</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>69° 00'20"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 39'03"E</u>	15. Flow-meter reading .....	<u>1039</u>
6. Sea depth(m) .....		16. Volume of water filtered(m <sup>3</sup> )...	<u>17.26</u>
7. Date & time(LMT)...	<u>Jan. 14 '83, 09:30</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>607</u>
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 <sup>3</sup>
	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	I-5	2					2	+
6. Polychaeta			II-6	101			1010	59
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	306	II-9-1	98			1286	75
Cyclopoida Copepoda			II-9-2	577			5770	334
Harpacticoida Copepoda			II-9-3	43			430	25
10. Copepoda, nauplius			II-10	64			640	37
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea	I-15	17					17	1
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda			II-18	17			170	10
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	37			370	21
22. Thaliacea							0	0
23. Egg			II-23	30			300	17
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms			II-27	41			410	24
28. Unidentified forms	I-28	1	II-28	6			61	4
29. Radiolaria							0	0
<b>Total</b>		<b>329</b>		<b>1014</b>			<b>10469</b>	<b>607</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-105

1. Sample No.....	<u>2305NDQ01</u>	11. Wire run out(m) .....	<u>160-0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>15</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>155-0</u>
4. Station No.....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 40' 25" E</u>	15. Flow-meter reading.....	<u>1280</u>
6. Sea depth(m).....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>21.31</u>
7. Date & time(LMT)...	<u>Apr. 5 '82, 11:43</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>10.4</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1309</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/4 Sample ] [ Sort II ]		[ 1/40 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	94			376	18
2. Siphonophora	I-2	6	II-2	1			10	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta			II-6	7			28	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	47	II-9-1	215			907	43
Cyclopoida Copepoda					III-9-2	416	16640	781
Harpacticoida Copepoda			II-9-3	56			224	11
10. Copepoda, nauplius					III-10	173	6920	325
11. Cumacea							0	0
12. Isopoda							0	0
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			II-20	15			60	3
21. Appendicularia					III-21	66	2640	124
22. Thaliacea							0	0
23. Egg			II-23	3			12	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	10	II-28	9			46	2
29. Radiolaria							0	0
Total		63		400		655	27863	1309

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-106

1. Sample No. ....	<u>2305ND002</u>	11. Wire run out(m) .....	<u>325-150</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>20</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>305-141</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59'57"S</u>	14. Flow-meter used .....	.....
	<u>39° 40'25"E</u>	15. Flow-meter reading.....	.....
6. Sea depth(m).....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>19.76</u>
7. Date & time(LMT)...	<u>Apr. 5 '82, 12:00</u>	calculated by...	<u>Assumption</u>
(GMT)...	.....	17. Wet weight(mg) per m <sup>3</sup> .....	.....
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>12.0</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1439</u>
10. Duration of haul...	.....		

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/4 Sample ] [ Sort II ]		[ 1/16 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	96			384	19
2. Siphonophora	I-2	3					3	0
3. Other medusae	I-3	1					1	+
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta			II-6	24			96	5
7. Cladocera							0	0
8. Ostracoda	I-8	2					2	+
9. Calanoida Copepoda	I-9-1	67	II-9-1	293			1239	63
Cyclopoida Copepoda					III-9-2	1191	19056	964
Harpacticoida Copepoda			II-9-3	32			128	6
10. Copepoda, nauplius					III-10	218	3488	177
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea	I-15	1					1	+
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda			II-18	6			24	1
19. Cephalopoda							0	0
20. Other Mollusca			II-20	1			4	+
21. Appendicularia			II-21	957			3828	194
22. Thaliacea							0	0
23. Egg			II-23	33			132	7
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae	I-26	1					1	+
27. Planktonic larval forms					III-27	1	16	1
28. Unidentified forms	I-28	1	II-28	10			41	2
29. Radiolaria							0	0
Total		76		1452		1410	28444	1439

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-107

1. Sample No. ....	<u>2305NDO03</u>	11. Wire run out(m) .....	<u>650-300</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>20</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>611-282</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	
	<u>39° 40' 25" E</u>	15. Flow-meter reading .....	
6. Sea depth(m) .....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>39.52</u>
7. Date & time(LMT) .....	<u>Apr. 5 '82, 12:20</u>	calculated by .....	<u>Assumption</u>
(GMT) .....		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>8.0</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>425</u>
10. Duration of haul .....			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/4 Sample ] [ Sort II ]		[ 1/16 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	38			152	4
2. Siphonophora	I-2	1					1	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	1					1	+
6. Polychaeta			II-6	62			248	6
7. Cladocera							0	0
8. Ostracoda	I-8	31	II-8	13			83	2
9. Calanoida Copepoda	I-9-1	293	II-9-1	91			657	17
Cyclopoida Copepoda					III-9-2	704	11264	285
Harpacticoida Copepoda			II-9-3	28			112	3
10. Copepoda, nauplius					III-10	151	2416	61
11. Cumacea							0	0
12. Isopoda	I-12	1					1	+
13. Amphipoda							0	0
14. Mysidacea	I-14	3					3	+
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			II-20	2			8	+
21. Appendicularia					III-21	113	1808	46
22. Thaliacea							0	0
23. Egg			II-23	2			8	+
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	3					3	+
28. Unidentified forms			II-28	4			16	+
29. Radiolaria							0	0
<b>Total</b>		<b>333</b>		<b>240</b>		<b>968</b>	<b>16781</b>	<b>425</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-108

1. Sample No. ....	<u>2305ND005</u>	11. Wire run out(m) .....	<u>151-0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>9</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>149-0</u>
4. Station No.....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 40' 25" E</u>	15. Flow-meter reading.....	<u>1316</u>
6. Sea depth(m).....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>21.90</u>
7. Date & time(LMT)...	<u>Apr. 22 '82, 13:37</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>5.2</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1061</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	14			140	6
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta			II-6	5			50	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	43	II-9-1	127			1313	60
Cyclopoida Copepoda					III-9-2	733	14660	669
Harpacticoida Copepoda			II-9-3	18			180	8
10. Copepoda, nauplius					III-10	242	4840	221
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			II-18	1			10	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	196			1960	89
22. Thaliacea	I-22	2					2	+
23. Egg			II-23	5			50	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			II-28	2			20	1
29. Radiolaria							0	0
<b>Total</b>		<b>48</b>		<b>368</b>		<b>975</b>	<b>23228</b>	<b>1061</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-109

1. Sample No. ....	<u>2305ND006</u>	11. Wire run out(m) .....	<u>307-0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>12</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>300-0</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 40' 25" E</u>	15. Flow-meter reading .....	<u>2805</u>
6. Sea depth(m) .....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> ) ..	<u>46.80</u>
7. Date & time(LMT) ...	<u>Apr. 22 '82, 13:48</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>7.6</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>435</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/40 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	12			120	3
2. Siphonophora	I-2	1					1	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta			II-6	11			110	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	231	II-9-1	221			2441	52
Cyclopoida Copepoda					III-9-2	360	14400	308
Harpacticoida Copepoda			II-9-3	27			270	6
10. Copepoda, nauplius					III-10	64	2560	55
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea	I-15	1					1	+
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda			II-18	1			10	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	29			290	6
22. Thaliacea	I-22	62					62	1
23. Egg			II-23	6			60	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms			II-28	1			10	+
29. Radiolaria							0	0
<b>Total</b>		<b>295</b>		<b>308</b>		<b>424</b>	<b>20335</b>	<b>435</b>

+ : less than 1 indiv./m<sup>3</sup>



## ZOOPLANKTON RECORD SHEET

Series No. NOR-110

1. Sample No. ....	<u>2305ND007</u>	11. Wire run out(m) .....	<u>610-0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>10</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>601-0</u>
4. Station No.....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59'57"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 40'25"E</u>	15. Flow-meter reading.....	<u>5219</u>
6. Sea depth(m).....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>87.20</u>
7. Date & time(LMT)...	<u>Apr. 22 '82, 14:10</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>10.8</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>923</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/5 Sample ] [ Sort II ]		[ 1/10 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera					III-1	37	370	4
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Plochytaeta					III-6	63	630	7
7. Cladocera							0	0
8. Ostracoda	I-8	32					32	+
9. Calanoida Copepoda	I-9-1	624	II-9-1	773			4489	51
Cyclopoida Copepoda					IV-9-2	*552	55200	633
Harpacticoida Copepoda					III-9-3	26	260	3
10. Copepoda, nauplius					IV-10	*155	15500	178
11. Cumacea							0	+
12. Isopoda	I-12	1					1	+
13. Amphipoda	I-13	2					2	+
14. Mysidacea	I-14	5					5	+
15. Euphausiacea	I-15	1					1	+
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda					III-18	15	150	2
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia					III-21	339	3390	39
22. Thaliacea	I-22	2					2	+
23. Egg					III-23	31	310	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	3			III-28	10	103	1
29. Radiolaria							0	0
Total		670		773	521	*707	80445	923

+ : less than 1 indiv./m<sup>3</sup>

\* : sorted from an aliquot of 1/100 of a sample

## ZOOPLANKTON RECORD SHEET

Series No. NOR-111

1. Sample No. ....	<u>2305ND008</u>	11. Wire run out(m) .....	<u>150-0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>5</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>149-0</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59'57"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 40'25"E</u>	15. Flow-meter reading .....	<u>956</u>
6. Sea depth(m) .....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>15.9</u>
7. Date & time(LMT)...	<u>May 11 '82, 13:21</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>4.2</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1772</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/100 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	5					5	+
3. Other medusae	I-3	1					1	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	1					1	+
6. Polychaeta			II-6	3			30	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	111	II-9-1	186			1971	124
Cyclopoida Copepoda					III-9-2	205	20500	1289
Harpacticoida Copepoda			II-9-3	11			110	7
10. Copepoda, nauplius					III-10	54	5400	340
11. Cumacea							0	0
12. Isopoda							0	0
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	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	3			30	2
22. Thaliacea							0	0
23. Egg			II-23	1			10	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	II-28	10			102	6
29. Radiolaria							0	0
Total		121		215		259	28171	1772

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-112

1. Sample No.....	<u>2305ND009</u>	11. Wire run out(m) .....	<u>300-150</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>5</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>299-149</u>
4. Station No.....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59'57"S</u>	14. Flow-meter used .....	_____
	<u>39° 40'25"E</u>	15. Flow-meter reading.....	_____
6. Sea depth(m).....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>16.94</u>
7. Date & time(LMT)...	<u>May 11 '82, 13:35</u>	calculated by...	<u>Assumption</u>
(GMT)...	_____	17. Wet weight(mg) per m <sup>3</sup> .....	_____
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>3.6</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>526</u>
10. Duration of haul...	_____		

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/40 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	4			40	2
2. Siphonophora	I-2	12					12	1
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	1					1	+
6. Polychaeta			II-6	8			80	5
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	135	II-9-1	173			1865	110
Cyclopoida Copepoda					III-9-2	153	6120	361
Harpacticoida Copepoda			II-9-3	2			20	1
10. Copepoda, nauplius					III-10	13	520	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			II-21	9			90	5
22. Thaliacea							0	0
23. Egg			II-23	10			100	6
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms			II-28	6			60	4
29. Radiolaria							0	0
Total		148		212		166	8908	526

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-113

1. Sample No. ....	<u>2305ND010</u>	11. Wire run out(m) .....	<u>600-300</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>1</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>600-300</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59'57"S</u>	14. Flow-meter used .....	
	<u>39° 40'25"E</u>	15. Flow-meter reading .....	
6. Sea depth(m) .....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>33.88</u>
7. Date & time(LMT) ...	<u>May 11 '82, 13:55</u>	calculated by ...	<u>Assumption</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>2.0</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>157</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 3/10 Sample ] [ Sort II ]		[ 1/10 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera					III-1	4	40	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			III-6	2	21	1
7. Cladocera							0	0
8. Ostracoda	I-8	5					5	+
9. Calanoida Copepoda	I-9-1	196	II-9-1	414			1576	47
Cyclopoida Copepoda					IV-9-2	*173	3460	102
Harpacticoida Copepoda					III-9-3	6	60	2
10. Copepoda, nauplius					IV-10	*3	60	2
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					III-23	2	20	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms					III-28	2	20	1
29. Radiolaria							0	0
<b>Total</b>		<b>204</b>		<b>414</b>	<b>16</b>	<b>*176</b>	<b>5264</b>	<b>157</b>

+ : less than 1 indiv./m<sup>3</sup>

\* : sorted from an aliquot of 1/20 of sample

## ZOOPLANKTON RECORD SHEET

Series No. NOR-114

1. Sample No. ....	<u>2305ND011</u>	11. Wire run out(m) .....	<u>150-0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>2</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>150-0</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59'57"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 40'25"E</u>	15. Flow-meter reading.....	<u>925</u>
6. Sea depth(m).....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>15.40</u>
7. Date & time(LMT)...	<u>May 25 '82, 14:45</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>3.6</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1879</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/100 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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			II-6	3			30	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	126	II-9-1	195			2076	135
Cyclopoida Copepoda					III-9-2	221	22100	1435
Harpacticoida Copepoda			II-9-3	7			70	5
10. Copepoda, nauplius					III-10	45	4500	292
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea	I-15	2					2	+
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda			II-18	1			10	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	4			40	3
22. Thaliacea							0	0
23. Egg			II-23	7			70	5
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	II-28	2			23	1
29. Radiolaria							0	0
<b>Total</b>		134		219		266	28924	1879

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-115

1. Sample No. ....	<u>2305ND012</u>	11. Wire run out (m) .....	<u>300-150</u>
2. JARE .....	<u>23</u>	12. Wire angle (°) .....	<u>0</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>300-150</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	
	<u>39° 40' 25" E</u>	15. Flow-meter reading .....	
6. Sea depth (m) .....	<u>675</u>	16. Volume of water filtered (m <sup>3</sup> ) ...	<u>16.94</u>
7. Date & time (LMT) ...	<u>May 25 '82, 14:56</u>	calculated by ...	<u>Assumption</u>
(GMT) ...		17. Wet weight (mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC (100 μm)</u>	18. Settling volume (cc) per m <sup>3</sup> .....	<u>3.6</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>840</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/80 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	3			30	2
2. Siphonophora							0	0
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha							0	0
6. Polychaeta			II-6	3			30	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	144	II-9-1	191			2054	121
Cyclopoida Copepoda					III-9-2	130	10400	614
Harpacticoida Copepoda			II-9-3	13			130	8
10. Copepoda, nauplius					III-10	16	1280	76
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea	I-15	1					1	+
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda			II-18	3			30	2
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	7			70	4
22. Thaliacea							0	0
23. Egg			II-23	14			140	8
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms			II-27	1			10	1
28. Unidentified forms			II-28	4			40	2
29. Radiolaria							0	0
Total		145		239		146	14215	840

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-116

1. Sample No. ....	<u>2305ND013</u>	11. Wire run out(m) .....	<u>600-0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>0</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>600-0</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 40' 25" E</u>	15. Flow-meter reading .....	<u>4156</u>
6. Sea depth(m) .....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>69.5</u>
7. Date & time(LMT) ...	<u>May 25 '82, 15:18</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>9.6</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>663</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/100 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	10			100	1
2. Siphonophora	I-2	5					5	+
3. Other medusae	I-3	1					1	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	6					6	+
6. Polychaeta			II-6	23			230	3
7. Cladocera							0	0
8. Ostracoda	I-8	25					25	+
9. Calanoida Copepoda	I-9-1	937	II-9-1	884			9777	141
Cyclopoida Copepoda					III-9-2	322	32200	463
Harpacticoida Copepoda			II-9-3	47			470	7
10. Copepoda, nauplius					III-10	25	2500	36
11. Cumacea							0	0
12. Isopoda	I-12	3					3	+
13. Amphipoda	I-13	3					3	+
14. Mysidacea							0	0
15. Euphausiacea	I-15	3					3	+
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda			II-18	6			60	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	20			200	3
22. Thaliacea	I-22	40					40	1
23. Egg			II-23	8			80	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms			II-27	1			10	+
28. Unidentified forms	I-28	1	II-28	37			371	5
29. Radiolaria							0	0
Total		1024		1036		347	46084	663

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-117

1. Sample No. ....	<u>2305ND014</u>	11. Wire run out(m) .....	<u>150-0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>5</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>149-0</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 40' 25" E</u>	15. Flow-meter reading .....	<u>970</u>
6. Sea depth(m) .....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>16.14</u>
7. Date & time(LMT) ...	<u>June 13 '82, 11:26</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>4.4</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>2539</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/100 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	1			10	1
2. Siphonophora	I-2	4					4	+
3. Other medusae	I-3	2					2	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	1	II-5	1			11	1
6. Polychaeta			II-6	1			10	1
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	138	II-9-1	201			2148	133
Cyclopoida Copepoda					III-9-2	342	34200	2119
Harpacticoida Copepoda			II-9-3	2			20	1
10. Copepoda, nauplius					III-10	43	4300	266
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea	I-15	1					1	+
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda			II-18	1			10	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	8			80	5
22. Thaliacea							0	0
23. Egg			II-23	9			90	6
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	2	II-27	1			12	1
28. Unidentified forms	I-28	2	II-28	7			72	4
29. Radiolaria							0	0
<b>Total</b>		150		232		385	40970	2539

+ : less than 1 indiv./m<sup>3</sup>



## ZOOPLANKTON RECORD SHEET

Series No. NOR-118

1. Sample No. ....	<u>2305ND015</u>	11. Wire run out(m) .....	<u>300-150</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>6</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>298-149</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	
	<u>39° 40' 25" E</u>	15. Flow-meter reading .....	
6. Sea depth(m) .....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> ) ...	<u>16.94</u>
7. Date & time(LMT) ...	<u>June 13 '82, 11:37</u>	calculated by ...	<u>Assumption</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>5.6</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1328</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/80 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	8					8	+
3. Other medusae			I-3	1			10	1
4. Ctenophora							0	0
5. Chaetognatha	I-5	4					4	+
6. Polychaeta			II-6	4			40	2
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	177	II-9-1	402			4197	248
Cyclopoida Copepoda					III-9-2	198	15840	935
Harpacticoida Copepoda			II-9-3	9			90	5
10. Copepoda, nauplius					III-10	25	2000	118
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea	I-15	9					9	1
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda			II-18	2			20	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	4			40	2
22. Thaliacea							0	0
23. Egg			II-23	11			110	6
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1	II-27	10			101	6
28. Unidentified forms	I-28	4	II-28	2			24	1
29. Radiolaria							0	0
<b>Total</b>		<b>203</b>		<b>445</b>		<b>223</b>	<b>22493</b>	<b>1328</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-119

1. Sample No. ....	<u>2305ND016</u>	11. Wire run out(m) .....	<u>600-300</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>2</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>600-300</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59'57"S</u>	14. Flow-meter used .....	
	<u>39° 40'25"E</u>	15. Flow-meter reading .....	
6. Sea depth(m) .....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> ) ...	<u>33.88</u>
7. Date & time(LMT) ...	<u>June 13 '82, 11:52</u>	calculated by ...	<u>Assumption</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>2.4</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>171</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 3/10 Sample ] [ Sort II ]		[ 1/10 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera					III-1	1	10	+
2. Siphonophora	I-2	3					3	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	1					1	+
6. Polychaeta					III-6	9	90	3
7. Cladocera							0	0
8. Ostracoda	I-8	13					13	+
9. Calanoida Copepoda	I-9-1	412	II-9-1	430			1845	54
Cyclopoida Copepoda					III-9-2	350	3500	103
Harpacticoida Copepoda					III-9-3	6	60	2
10. Copepoda, nauplius					III-10	23	230	7
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda	I-13	1					1	+
14. Mysidacea							0	0
15. Euphausiacea	I-15	2					2	+
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda					III-18	1	10	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia					III-21	2	20	1
22. Thaliacea							0	0
23. Egg					III-23	1	10	+
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms					III-28	1	10	+
29. Radiolaria							0	0
Total		432		430		394	5805	171

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-120

1. Sample No. ....	<u>2305ND017</u>	11. Wire run out(m) .....	<u>151-0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>8</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>150-0</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 40' 25" E</u>	15. Flow-meter reading .....	<u>1050</u>
6. Sea depth(m) .....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>17.47</u>
7. Date & time(LMT) ...	<u>June 13 '82, 23:04</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>4.0</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>887</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/100 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	2			20	1
2. Siphonophora	I-2	2					2	+
3. Other medusae	I-3	1					1	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	1					1	+
6. Polychaeta							0	0
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	191	II-9-1	191			2101	120
Cyclopoida Copepoda					III-9-2	125	12500	716
Harpacticoida Copepoda			II-9-3	10			100	6
10. Copepoda, nauplius					III-10	7	700	40
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda	I-13	2					2	+
14. Mysidacea							0	0
15. Euphausiacea	I-15	1					1	+
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda	I-18	2	II-18	2			22	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg			II-23	1			10	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms			II-28	4			40	2
29. Radiolaria							0	0
<b>Total</b>		<b>200</b>		<b>210</b>		<b>132</b>	<b>15500</b>	<b>887</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-121

1. Sample No. ....	<u>2305ND018</u>	11. Wire run out(m) .....	<u>305-150</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>11</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>299-147</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	
	<u>39° 40' 25" E</u>	15. Flow-meter reading .....	
6. Sea depth(m) .....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> ) ...	<u>17.50</u>
7. Date & time(LMT) ...	<u>June 13 '82, 23:17</u>	calculated by ...	<u>Assumption</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>5.6</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1690</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/100 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	1			10	1
2. Siphonophora	I-2	20					20	1
3. Other medusae	I-3	1					1	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	9					9	1
6. Polychaeta			II-6	9			90	5
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	195	II-9-1	300			3195	183
Cyclopoida Copepoda					III-9-2	222	22200	1269
Harpacticoida Copepoda			II-9-3	11			110	6
10. Copepoda, nauplius					III-10	35	3500	200
11. Cumacea							0	0
12. Isopoda	I-12	1					1	+
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea	I-15	1					1	+
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda			II-18	2			20	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	9			90	5
22. Thaliacea							0	0
23. Egg			II-23	14			140	8
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms			II-27	10			100	6
28. Unidentified forms	I-28	8	II-28	7			78	4
29. Radiolaria							0	0
Total		235		363		257	29565	1690

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-122

1. Sample No. ....	<u>2305ND019</u>	11. Wire run out(m) .....	<u>608-300</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>8</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>594-297</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59'57"S</u>	14. Flow-meter used .....	.....
	<u>39° 40'25"E</u>	15. Flow-meter reading.....	.....
6. Sea depth(m).....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>34.78</u>
7. Date & time(LMT)...	<u>June 13 '82, 23:36</u>	calculated by...	<u>Assumption</u>
(GMT)...	.....	17. Wet weight(mg) per m <sup>3</sup> .....	.....
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>5.2</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>414</u>
10. Duration of haul...	.....		

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/5 Sample ] [ Sort II ]		[ 1/10 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera					III-1	6	60	2
2. Siphonophora	I-2	4					4	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	5					5	+
6. Polychaeta					III-6	47	470	14
7. Cladocera							0	0
8. Ostracoda	I-8	26					26	1
9. Calanoida Copepoda	I-9-1	840	II-9-1	758			4630	133
Cyclopoida Copepoda					IV-9-2	*202	8080	232
Harpacticoida Copepoda					III-9-3	30	300	9
10. Copepoda, nauplius					IV-10	*14	560	16
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea	I-14	1					1	+
15. Euphausiacea	I-15	3					3	+
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					III-21	2	20	1
22. Thaliacea							0	0
23. Egg					III-23	19	190	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	9			III-28	3	39	1
29. Radiolaria							0	0
<b>Total</b>		<b>889</b>		<b>758</b>	<b>107</b>	<b>*216</b>	<b>14389</b>	<b>414</b>

+ : less than 1 indiv./m<sup>3</sup>

\* : sorted from an aliquot of 1/40 of sample

## ZOOPLANKTON RECORD SHEET

Series No. NOR-123

1. Sample No. ....	<u>2305ND020</u>	11. Wire run out(m) .....	<u>151-0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>8</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>150-0</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 40' 25" E</u>	15. Flow-meter reading.....	<u>1013</u>
6. Sea depth(m).....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>16.86</u>
7. Date & time(LMT)...	<u>July 14 '82, 13:00</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>3.4</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1095</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/40 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	3					3	+
3. Other medusae	I-3	2					2	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	3					3	+
6. Polychaeta			II-6	9			90	5
7. Cladocera							0	0
8. Ostracoda			II-8	1			10	1
9. Calanoida Copepoda	I-9-1	341	II-9-1	197			2311	137
Cyclopoida Copepoda					III-9-2	332	13280	788
Harpacticoida Copepoda			II-9-3	8			80	5
10. Copepoda, nauplius					III-10	61	2440	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			II-18	1			10	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	12			120	7
22. Thaliacea							0	0
23. Egg			II-23	4			40	2
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	8	II-27	1			18	1
28. Unidentified forms	I-28	1	II-28	5			51	3
29. Radiolaria							0	0
Total		358		238		393	18458	1095

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-124

1. Sample No. ....	<u>2305ND021</u>	11. Wire run out (m) .....	<u>301-150</u>
2. JARE .....	<u>23</u>	12. Wire angle (°) .....	<u>6</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>299-149</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	
	<u>39° 40' 25" E</u>	15. Flow-meter reading .....	
6. Sea depth (m) .....	<u>675</u>	16. Volume of water filtered (m <sup>3</sup> ) ...	<u>17.05</u>
7. Date & time (LMT) ...	<u>July 14 '82, 13:08</u>	calculated by ...	<u>Assumption</u>
(GMT) ...		17. Wet weight (mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC (100 μm)</u>	18. Settling volume (cc) per m <sup>3</sup> .....	<u>3.2</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>723</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			I-1	1			10	1
2. Siphonophora	I-2	3					3	+
3. Other medusae	I-3	7					7	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	26					26	2
6. Polychaeta			II-6	13			130	8
7. Cladocera							0	0
8. Ostracoda	I-8	12					12	1
9. Calanoida Copepoda	I-9-1	232	II-9-1	182			2052	120
Cyclopoida Copepoda					III-9-2	443	8860	520
Harpacticoida Copepoda			II-9-3	9			90	5
10. Copepoda, nauplius					III-10	40	800	47
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea	I-15	1					1	+
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda			II-18	2			20	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	13			130	8
22. Thaliacea							0	0
23. Egg			II-23	7			70	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	2	II-28	10			102	6
29. Radiolaria							0	0
<b>Total</b>		<b>285</b>		<b>237</b>		<b>483</b>	<b>12315</b>	<b>723</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-125

1. Sample No. ....	<u>2305ND022</u>	11. Wire run out (m) .....	<u>603-300</u>
2. JARE .....	<u>23</u>	12. Wire angle (°) .....	<u>4</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>602-299</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	
	<u>39° 40' 25" E</u>	15. Flow-meter reading .....	
6. Sea depth (m) .....	<u>675</u>	16. Volume of water filtered (m <sup>3</sup> ) ...	<u>34.21</u>
7. Date & time (LMT) ...	<u>July 14 '82, 13:24</u>	calculated by ...	<u>Assumption</u>
(GMT) ...		17. Wet weight (mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC (100 μm)</u>	18. Settling volume (cc) per m <sup>3</sup> .....	<u>5.8</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>317</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/5 Sample ] [ Sort II ]		[ 1/10 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera					III-1	5	50	1
2. Siphonophora	I-2	26					26	1
3. Other medusae	I-3	3					3	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	32					32	1
6. Polychaeta	I-6	1			III-6	58	581	17
7. Cladocera							0	0
8. Ostracoda	I-8	72					72	2
9. Calanoida Copepoda	I-9-1	480	II-9-1	225			1605	47
Cyclopoida Copepoda					IV-9-2	*188	7520	220
Harpacticoida Copepoda					III-9-3	11	110	3
10. Copepoda, nauplius					IV-10	*14	560	16
11. Cumacea							0	0
12. Isopoda							0	0
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					III-21	6	60	2
22. Thaliacea							0	0
23. Egg					III-23	6	60	2
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms					III-27	2	20	1
28. Unidentified forms	I-28	99			III-28	5	149	4
29. Radiolaria							0	0
Total		715		225	93	*202	10850	317

+ : less than 1 indiv./m<sup>3</sup>

\* : sorted from an aliquot of 1/40 of sample



## ZOOPLANKTON RECORD SHEET

Series No. NOR-126

1. Sample No. ....	<u>2305ND023</u>	11. Wire run out(m) .....	<u>150-0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>6</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>149-0</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59'57"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 40'25"E</u>	15. Flow-meter reading.....	<u>1260</u>
6. Sea depth(m).....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>20.97</u>
7. Date & time(LMT)...	<u>July 30 '82, 13:14</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>4.0</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>673</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/40 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	3					3	+
6. Polychaeta			II-6	4			40	2
7. Cladocera							0	0
8. Ostracoda	I-8	2					2	+
9. Calanoida Copepoda	I-9-1	183	II-9-1	148			1663	79
Cyclopoida Copepoda					III-9-2	262	10480	500
Harpacticoida Copepoda			II-9-3	4			40	2
10. Copepoda, nauplius					III-10	42	1680	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			II-18	1			10	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	13			130	6
22. Thaliacea	I-22	1					1	+
23. Egg			II-23	2			20	1
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	2	II-27	1			12	1
28. Unidentified forms			II-28	3			30	1
29. Radiolaria							0	0
<b>Total</b>		191		176		304	14111	673

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-127

1. Sample No. ....	<u>2305ND024</u>	11. Wire run out(m) .....	<u>301-150</u>
2. JARE.....	<u>23</u>	12. Wire angle(').....	<u>6</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>299-149</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59'57"S</u>	14. Flow-meter used .....	
	<u>39° 40'25"E</u>	15. Flow-meter reading.....	
6. Sea depth(m).....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>17.05</u>
7. Date & time(LMT)...	<u>July 30 '82, 13:25</u>	calculated by...	<u>Assumption</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>3.2</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>630</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	1			10	1
2. Siphonophora	I-2	21					21	1
3. Other medusae	I-3	9					9	1
4. Ctenophora	I-4	2					2	+
5. Chaetognatha	I-5	11					11	1
6. Polychaeta			II-6	6			60	4
7. Cladocera							0	0
8. Ostracoda	I-8	6					6	+
9. Calanoida Copepoda	I-9-1	147	II-9-1	127			1417	83
Cyclopoida Copepoda					III-9-2	393	7860	461
Harpacticoida Copepoda							0	0
10. Copepoda, nauplius					III-10	57	1140	67
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda	I-13	3					3	+
14. Mysidacea							0	0
15. Euphausiacea	I-15	3					3	+
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			10	1
22. Thaliacea							0	0
23. Egg			II-23	3			30	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	75	II-28	6			135	8
29. Radiolaria							0	0
<b>Total</b>		<b>278</b>		<b>144</b>		<b>450</b>	<b>10718</b>	<b>630</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-128

1. Sample No. ....	<u>2305ND025</u>	11. Wire run out (m) .....	<u>601-300</u>
2. JARE .....	<u>23</u>	12. Wire angle (°) .....	<u>2</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>601-300</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59'57"S</u>	14. Flow-meter used .....	
	<u>39° 40'25"E</u>	15. Flow-meter reading .....	
6. Sea depth (m) .....	<u>675</u>	16. Volume of water filtered (m <sup>3</sup> ) ...	<u>33.99</u>
7. Date & time (LMT) ...	<u>July 30 '82, 13:40</u>	calculated by ...	<u>Assumption</u>
(GMT) ...		17. Wet weight (mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC (100 μm)</u>	18. Settling volume (cc) per m <sup>3</sup> .....	<u>7.6</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>423</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/5 Sample ] [ Sort II ]		[ 1/10 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	33					33	1
3. Other medusae	I-3	5					5	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	46					46	1
6. Polychaeta					III-6	49	490	14
7. Cladocera							0	0
8. Ostracoda	I-8	90					90	3
9. Calanoida Copepoda	I-9-1	423	II-9-1	246			1653	49
Cyclopoida Copepoda					IV-9-2	*551	11020	324
Harpacticoida Copepoda					III-9-3	8	80	2
10. Copepoda, nauplius					IV-10	*35	700	21
11. Cumacea							0	0
12. Isopoda	I-12	2					2	+
13. Amphipoda	I-13	3					3	+
14. Mysidacea							0	0
15. Euphausiacea	I-15	4					4	+
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda					III-18	1	10	+
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia					III-21	6	60	2
22. Thaliacea							0	0
23. Egg					III-23	9	90	3
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	4					4	+
28. Unidentified forms	I-28	32			III-28	5	82	2
29. Radiolaria							0	0
<b>Total</b>		<b>642</b>		<b>246</b>	<b>78</b>	<b>*586</b>	<b>14372</b>	<b>423</b>

+ : less than 1 indiv./m<sup>3</sup>

\* : sorted from an aliquot of 1/20 of sample

## ZOOPLANKTON RECORD SHEET

Series No. NOR-129

1. Sample No. ....	<u>2305ND026</u>	11. Wire run out(m) .....	<u>150-0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>4</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>150-0</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 40' 25" E</u>	15. Flow-meter reading.....	<u>1005</u>
6. Sea depth(m).....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>16.73</u>
7. Date & time(LMT)...	<u>Aug. 19 '82, 11:28</u>	calculated by...	<u>Flow-meter</u>
	(GMT)...	17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.0</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>618</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	7					7	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	2					2	+
6. Polychaeta			II-6	14			140	8
7. Cladocera							0	0
8. Ostracoda	I-8	3					3	+
9. Calanoida Copepoda	I-9-1	173	II-9-1	116			1333	80
Cyclopoida Copepoda					III-9-2	380	7600	454
Harpacticoida Copepoda			II-9-3	8			80	5
10. Copepoda, nauplius					III-10	47	940	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			II-18	2			20	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	8			80	5
22. Thaliacea							0	0
23. Egg			II-23	11			110	7
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms			II-27	1			10	1
28. Unidentified forms	I-28	4	II-28	1			14	1
29. Radiolaria							0	0
<b>Total</b>		189		161		427	10339	618

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-130

1. Sample No. ....	<u>2305ND027</u>	11. Wire run out(m) .....	<u>300-150</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>2</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>300-150</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	
	<u>39° 40' 25" E</u>	15. Flow-meter reading .....	
6. Sea depth(m) .....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>16.94</u>
7. Date & time(LMT) .....	<u>Aug. 19 '82, 11:39</u>	calculated by .....	<u>Assumption</u>
(GMT) .....		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>2.4</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>569</u>
10. Duration of haul .....			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	12					12	1
3. Other medusae	I-3	3					3	+
4. Ctenophora	I-4	2					2	+
5. Chaetognatha	I-5	16					16	1
6. Polychaeta	I-6	1	II-6	34			341	20
7. Cladocera							0	0
8. Ostracoda	I-8	7					7	+
9. Calanoida Copepoda	I-9-1	235	II-9-1	143			1665	98
Cyclopoida Copepoda					III-9-2	355	7100	419
Harpacticoida Copepoda			II-9-3	2			20	1
10. Copepoda, nauplius					III-10	14	280	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			10	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	1			10	1
22. Thaliacea							0	0
23. Egg			II-23	5			50	3
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	5					5	+
28. Unidentified forms	I-28	5	II-28	12			125	7
29. Radiolaria							0	0
<b>Total</b>		<b>286</b>		<b>198</b>		<b>369</b>	<b>9646</b>	<b>569</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-131

1. Sample No. ....	<u>2305ND028</u>	11. Wire run out (m) .....	<u>600-300</u>
2. JARE .....	<u>23</u>	12. Wire angle (°) .....	<u>2</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>600-300</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	
	<u>39° 40' 25" E</u>	15. Flow-meter reading .....	
6. Sea depth (m) .....	<u>675</u>	16. Volume of water filtered (m <sup>3</sup> ) ...	<u>33.88</u>
7. Date & time (LMT) ...	<u>Aug. 19 '82, 11:56</u>	calculated by ...	<u>Assumption</u>
(GMT) ...		17. Wet weight (mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC (100 μm)</u>	18. Settling volume (cc) per m <sup>3</sup> ...	<u>5.4</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>286</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/5 Sample ] [ Sort II ]		[ 1/10 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera					III-1	2	20	1
2. Siphonophora	I-2	34					34	1
3. Other medusae	I-3	5					5	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	51					51	2
6. Polychaeta	I-6	4			III-6	44	444	13
7. Cladocera							0	0
8. Ostracoda	I-8	114					114	3
9. Calanoida Copepoda	I-9-1	339	II-9-1	249			1584	47
Cyclopoida Copepoda					IV-9-2	*340	6800	201
Harpacticoida Copepoda					III-9-3	15	150	4
10. Copepoda, nauplius					IV-10	*13	260	8
11. Cumacea							0	0
12. Isopoda	I-12	2					2	+
13. Amphipoda	I-13	2					2	+
14. Mysidacea	I-14	1					1	+
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					III-21	1	10	+
22. Thaliacea							0	0
23. Egg					III-23	11	110	3
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	10					10	+
28. Unidentified forms	I-28	11			III-28	8	91	3
29. Radiolaria							0	0
<b>Total</b>		<b>574</b>		<b>249</b>	<b>81</b>	<b>*353</b>	<b>9689</b>	<b>286</b>

+ : less than 1 indiv./m<sup>3</sup>

\* : sorted from an aliquot of 1/20 of sample

## ZOOPLANKTON RECORD SHEET

Series No. NOR-132

1. Sample No. ....	<u>2305ND029</u>	11. Wire run out(m) .....	<u>150-0</u>
2. JARE .....	<u>23</u>	12. Wire angle(') .....	<u>10</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>148-0</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 40' 25" E</u>	15. Flow-meter reading .....	<u>1030</u>
6. Sea depth(m) .....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>17.14</u>
7. Date & time(LMT) ...	<u>Sep. 3 '82, 12:23</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.6</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>556</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	1			10	1
2. Siphonophora	I-2	5					5	+
3. Other medusae	I-3	2					2	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	8					8	+
6. Polychaeta			II-6	19			190	11
7. Cladocera							0	0
8. Ostracoda	I-8	4					4	+
9. Calanoida Copepoda	I-9-1	151	II-9-1	124			1391	81
Cyclopoida Copepoda					III-9-2	331	6620	386
Harpacticoida Copepoda			II-9-3	3			30	2
10. Copepoda, nauplius					III-10	54	1080	63
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							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	10			100	6
22. Thaliacea							0	0
23. Egg			II-23	7			70	4
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1	II-27	1			11	1
28. Unidentified forms	I-28	3					3	+
29. Radiolaria							0	0
<b>Total</b>		175		165		385	9525	556

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-133

1. Sample No. ....	<u>2305ND030</u>	11. Wire run out (m) .....	<u>300-150</u>
2. JARE .....	<u>23</u>	12. Wire angle (°) .....	<u>8</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>297-149</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	
	<u>39° 40' 25" E</u>	15. Flow-meter reading .....	
6. Sea depth (m) .....	<u>675</u>	16. Volume of water filtered (m <sup>3</sup> ) ..	<u>16.94</u>
7. Date & time (LMT) ...	<u>Sep. 3 '82, 12:32</u>	calculated by ...	<u>Assumption</u>
(GMT) ...		17. Wet weight (mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC (100 μm)</u>	18. Settling volume (cc) per m <sup>3</sup> .....	<u>3.0</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>599</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	2			20	1
2. Siphonophora	I-2	23					23	1
3. Other medusae	I-3	8					8	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	15					15	1
6. Polychaeta			II-6	12			120	7
7. Cladocera							0	0
8. Ostracoda	I-8	5					5	+
9. Calanoida Copepoda	I-9-1	249	II-9-1	154			1789	106
Cyclopoida Copepoda					III-9-2	376	7520	444
Harpacticoida Copepoda			II-9-3	2			20	1
10. Copepoda, nauplius					III-10	15	300	18
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea	I-15	1					1	+
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda			I-18	1			10	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	6			60	4
22. Thaliacea							0	0
23. Egg			II-2.3	12			120	7
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1	II-27	1			11	1
28. Unidentified forms	I-28	12	II-28	10			112	7
29. Radiolaria							0	0
<b>Total</b>		<b>314</b>		<b>200</b>		<b>391</b>	<b>10134</b>	<b>39</b>

+ : less than 1 indiv./m<sup>3</sup>



## ZOOPLANKTON RECORD SHEET

Series No. NOR-134

1. Sample No. ....	<u>2305ND031</u>	11. Wire run out(m) .....	<u>600-300</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>5</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>598-299</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59'57"S</u>	14. Flow-meter used .....	_____
	<u>39° 40'25"E</u>	15. Flow-meter reading .....	_____
6. Sea depth(m) .....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>33.88</u>
7. Date & time(LMT)...	<u>Sep. 3 '82, 12:45</u>	calculated by...	<u>Assumption</u>
(GMT)...	_____	17. Wet weight(mg) per m <sup>3</sup> .....	_____
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>4.4</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>205</u>
10. Duration of haul...	_____		

Proportion of Sample sorted	[ 1/1 Sample ]		[ 3/10 Sample ]		[ 1/10 Sample ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	[ Sort I ]		[ Sort II ]		[ Sort III ]			
Category	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	21					21	1
3. Other medusae	I-3	2					2	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	78					78	2
6. Polychaeta	I-6	4			III-6	23	234	7
7. Cladocera							0	0
8. Ostracoda	I-8	56					56	2
9. Calanoida Copepoda	I-9-1	357	II-9-1	202			1030	30
Cyclopoida Copepoda					IV-9-2	*243	4860	143
Harpacticoida Copepoda					III-9-3	2	20	1
10. Copepoda, nauplius					IV-10	*17	340	10
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda	I-13	1					1	+
14. Mysidacea							0	0
15. Euphausiacea	I-15	6					6	+
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					III-21	2	20	1
22. Thaliacea							0	0
23. Egg					III-23	15	150	4
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	3					3	+
28. Unidentified forms	I-28	10			III-28	13	140	4
29. Radiolaria							0	0
<b>Total</b>		<b>538</b>		<b>202</b>	<b>55</b>	<b>*260</b>	<b>6961</b>	<b>205</b>

+ : less than 1 indiv./m<sup>3</sup>

\* : sorted from an aliquot of 1/20 of sample

## ZOOPLANKTON RECORD SHEET

Series No. NOR-135

1. Sample No. ....	<u>2305ND032</u>	11. Wire run out(m) .....	<u>150-0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>9</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>148-0</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59'57"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 40'25"E</u>	15. Flow-meter reading.....	<u>955</u>
6. Sea depth(m).....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>15.89</u>
7. Date & time(LMT)...	<u>Sep. 19 '82, 10:57</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>2.4</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>575</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	1			10	1
2. Siphonophora	I-2	3					3	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	2					2	+
6. Polychaeta	I-6	1	II-6	6			61	4
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	106	II-9-1	181			1916	121
Cyclopoida Copepoda					III-9-2	294	5880	370
Harpacticoida Copepoda			II-9-3	5			50	3
10. Copepoda, nauplius					III-10	33	660	42
11. Cumacea							0	0
12. Isopoda							0	0
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	2			20	1
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	19			190	12
22. Thaliacea							0	0
23. Egg			II-23	27			270	17
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	13	II-27	4			53	3
28. Unidentified forms	I-28	2	II-28	2			22	1
29. Radiolaria							0	0
<b>Total</b>		<b>127</b>		<b>247</b>		<b>327</b>	<b>9137</b>	<b>575</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-136

1. Sample No. ....	<u>2305ND033</u>	11. Wire run out(m) .....	<u>300-150</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>7</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>298-149</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	
	<u>39° 40' 25" E</u>	15. Flow-meter reading .....	
6. Sea depth(m) .....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> ) ...	<u>16.94</u>
7. Date & time(LMT) ...	<u>Sep. 19 '82, 11:07</u>	calculated by ...	<u>Assumption</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.8</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>369</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	17					17	1
3. Other medusae	I-3	5					5	+
4. Ctenophora	I-4	1					1	+
5. Chaetognatha	I-5	10					10	1
6. Polychaeta			II-6	2			20	1
7. Cladocera							0	0
8. Ostracoda	I-8	5					5	+
9. Calanoida Copepoda	I-9-1	487	II-9-1	73			1217	72
Cyclopoida Copepoda					III-9-2	222	4440	262
Harpacticoida Copepoda			II-9-3	2			20	1
10. Copepoda, nauplius					III-10	8	160	9
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea	I-15	1					1	+
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	3			30	2
22. Thaliacea							0	0
23. Egg			II-23	11			110	6
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms			II-27	2			20	1
28. Unidentified forms	I-28	2	II-28	19			192	11
29. Radiolaria	I-29	1					1	+
<b>Total</b>		<b>529</b>		<b>112</b>		<b>230</b>	<b>6249</b>	<b>369</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-137

1. Sample No. ....	<u>2305ND034</u>	11. Wire run out(m) .....	<u>600-300</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>3</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>600-300</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	
	<u>39° 40' 25" E</u>	15. Flow-meter reading.....	
6. Sea depth(m).....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>33.88</u>
7. Date & time(LMT)...	<u>Sep. 19 '82, 11:26</u>	calculated by...	<u>Assumption</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>3.6</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>462</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/5 Sample ] [ Sort II ]		[ 1/10 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera					III-1	2	20	1
2. Siphonophora	I-2	56					56	2
3. Other medusae	I-3	5					5	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	68					68	2
6. Polychaeta	I-6	2			III-6	20	202	6
7. Cladocera							0	0
8. Ostracoda	I-8	70					70	2
9. Calanoida Copepoda	I-9-1	256	II-9-1	228			1396	41
Cyclopoida Copepoda					IV-9-2	*332	13280	392
Harpacticoida Copepoda					III-9-3	1	10	+
10. Copepoda, nauplius					IV-10	*5	200	6
11. Cumacea							0	0
12. Isopoda	I-12	1					1	+
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea	I-15	4					4	+
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					III-21	1	10	+
22. Thaliacea							0	0
23. Egg					III-23	18	180	5
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	7					7	+
28. Unidentified forms	I-28	43			III-28	10	143	4
29. Radiolaria							0	0
<b>Total</b>		<b>512</b>		<b>228</b>	<b>52</b>	<b>*337</b>	<b>15652</b>	<b>462</b>

+ : less than 1 indiv./m<sup>3</sup>

\* : sorted from an aliquot of 1/40 of sample

## ZOOPLANKTON RECORD SHEET

Series No. NOR-138

1. Sample No. ....	<u>2305ND035</u>	11. Wire run out(m) .....	<u>150-0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>6</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>149-0</u>
4. Station No.....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59'57"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 40'25"E</u>	15. Flow-meter reading.....	<u>1002</u>
6. Sea depth(m).....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>16.67</u>
7. Date & time(LMT)...	<u>Sep. 19 '82, 22:15</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.6</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>410</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	4					4	+
3. Other medusae	I-3	1					1	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	7					7	+
6. Polychaeta			II-6	9			90	5
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	178	II-9-1	155			1728	104
Cyclopoida Copepoda					III-9-2	203	4060	244
Harpacticoida Copepoda			II-9-3	2			20	1
10. Copepoda, nauplius					III-10	25	500	30
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea	I-15	3					3	+
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	13			130	8
22. Thaliacea							0	0
23. Egg			II-23	21			210	13
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	7	II-27	3			37	2
28. Unidentified forms	I-28	1	II-28	5			51	3
29. Radiolaria							0	0
Total		201		208		228	6841	410

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-139

1. Sample No. ....	<u>2305ND036</u>	11. Wire run out(m) .....	<u>300-150</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>5</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>299-149</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	_____
	<u>39° 40' 25" E</u>	15. Flow-meter reading .....	_____
6. Sea depth(m) .....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>16.94</u>
7. Date & time(LMT) ...	<u>Sep. 19 '82, 22:22</u>	calculated by ...	<u>Assumption</u>
(GMT) ...	_____	17. Wet weight(mg) per m <sup>3</sup> .....	_____
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>0.8</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>276</u>
10. Duration of haul ...	_____		

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	6					6	+
3. Other medusae	I-3	5					5	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	4					4	+
6. Polychaeta			II-6	1			10	1
7. Cladocera							0	0
8. Ostracoda	I-8	5					5	+
9. Calanoida Copepoda	I-9-1	342	II-9-1	39			732	43
Cyclopoida Copepoda					III-9-2	179	3580	211
Harpacticoida Copepoda							0	0
10. Copepoda, nauplius					III-10	7	140	8
11. Cumacea							0	0
12. Isopoda			II-12	1			10	1
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			II-21	2			20	1
22. Thaliacea							0	0
23. Egg			II-23	7			70	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	2	II-28	9			92	5
29. Radiolaria							0	0
Total		367		59		186	4677	276

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-140

1. Sample No. ....	<u>2305ND037</u>	11. Wire run out(m) .....	<u>600-300</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>4</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>599-299</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle.</u>
5. Position.....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	
	<u>39° 40' 25" E</u>	15. Flow-meter reading.....	
6. Sea depth(m).....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>33.88</u>
7. Date & time(LMT)...	<u>Sep. 19 '82, 22:45</u>	calculated by...	<u>Assumption</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>2.4</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>209</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 3/10 Sample ] [ Sort II ]		[ 1/10 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	15					15	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	26					26	1
6. Polychaeta	I-6	1			III-6	14	141	4
7. Cladocera							0	0
8. Ostracoda	I-8	35					35	1
9. Calanoida Copepoda	I-9-1	147	II-9-1	186			767	23
Cyclopoida Copepoda					IV-9-2	*281	5620	166
Harpacticoida Copepoda					III-9-3	1	10	+
10. Copepoda, nauplius					IV-10	*11	220	6
11. Cumacea							0	0
12. Isopoda	I-12	1					1	+
13. Amphipoda							0	0
14. Mysidacea	I-14	1					1	+
15. Euphausiacea	I-15	1					1	+
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					III-21	4	40	1
22. Thaliacea							0	0
23. Egg					III-23	12	120	4
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	11			III-27	1	21	1
28. Unidentified forms	I-28	5			III-28	5	55	2
29. Radiolaria							0	0
<b>Total</b>		<b>243</b>		<b>186</b>	<b>37</b>	<b>*292</b>	<b>7073</b>	<b>209</b>

+ : less than 1 indiv./m<sup>3</sup>

\* : sorted from an aliquot of 1/20 of sample

## ZOOPLANKTON RECORD SHEET

Series No. NOR-141

1. Sample No. ....	<u>2305ND038</u>	11. Wire run out(m) .....	<u>150-0</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>6</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>149-0</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 40' 25" E</u>	15. Flow-meter reading .....	<u>975</u>
6. Sea depth(m) .....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>16.22</u>
7. Date & time(LMT) ...	<u>Oct. 20 '82, 13:21</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.6</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>484</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	2			20	1
2. Siphonophora	I-2	4					4	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	3					3	+
6. Polychaeta			II-6	36			360	22
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	79	II-9-1	159			1669	103
Cyclopoida Copepoda					III-9-2	243	4860	300
Harpacticoida Copepoda			II-9-3	7			70	4
10. Copepoda, nauplius					III-10	15	300	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							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	11			110	7
22. Thaliacea							0	0
23. Egg			II-23	30			300	18
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	5	II-27	3			35	2
28. Unidentified forms	I-28	2	II-28	11			112	7
29. Radiolaria	I-29	1						+
<b>Total</b>		<b>94</b>		<b>259</b>		<b>258</b>	<b>7844</b>	<b>484</b>

+ : less than 1 indiv./m<sup>3</sup>



## ZOOPLANKTON RECORD SHEET

Series No. NOR-142

1. Sample No. ....	<u>2305ND039</u>	11. Wire run out(m) .....	<u>300-150</u>
2. JARE.....	<u>23</u>	12. Wire angle(').....	<u>6</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>298-149</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59'57"S</u>	14. Flow-meter used .....	.....
	<u>39° 40'25"E</u>	15. Flow-meter reading.....	.....
6. Sea depth(m).....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>16.94</u>
7. Date & time(LMT)...	<u>Oct. 20 '82, 13:30</u>	calculated by...	<u>Assumption</u>
(GMT)...	.....	17. Wet weight(mg) per m <sup>3</sup> .....	.....
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.4</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>573</u>
10. Duration of haul...	.....		

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	4					4	+
3. Other medusae	I-3	5					5	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	20					20	1
6. Polychaeta			II-6	3			30	2
7. Cladocera							0	0
8. Ostracoda	I-8	5					5	+
9. Calanoida Copepoda	I-9-1	454	II-9-1	90			1354	80
Cyclopoida Copepoda					III-9-2	376	7520	444
Harpacticoida Copepoda							0	0
10. Copepoda, nauplius					III-10	23	460	27
11. Cumacea							0	0
12. Isopoda			II-12	1			10	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							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	1			10	1
22. Thaliacea							0	0
23. Egg			II-23	18			180	11
t24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1	II-27	1			11	1
28. Unidentified forms	I-28	3	II-28	9			93	5
29. Radiolaria							0	0
Total		492		123		399	9702	573

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-143

1. Sample No. ....	<u>2305ND040</u>	11. Wire run out(m) .....	<u>600-300</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>7</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>596-298</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59'57"S</u>	14. Flow-meter used .....	
	<u>39° 40'25"E</u>	15. Flow-meter reading .....	
6. Sea depth(m) .....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>33.88</u>
7. Date & time(LMT)...	<u>Oct. 20 '82, 13:45</u>	calculated by...	<u>Assumption</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>3.8</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>369</u>
10. Duration of haul .....			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/50 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	1			10	+
2. Siphonophora	I-2	15					15	+
3. Other medusae	I-3	5					5	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	85					85	3
6. Polychaeta	I-6	3	II-6	18			183	5
7. Cladocera							0	0
8. Ostracoda	I-8	77					77	2
9. Calanoida Copepoda	I-9-1	837					837	25
Cyclopoida Copepoda					III-9-2	215	10750	317
Harpacticoida Copepoda			II-9-3	3			30	1
10. Copepoda, nauplius					III-10	2	100	3
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea	I-15	1					1	+
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			II-21	8			80	2
22. Thaliacea							0	0
23. Egg			II-23	18			180	5
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	2	II-27	10			102	3
28. Unidentified forms			II-28	6			60	2
29. Radiolaria							0	0
<b>Total</b>		1026		64		217	12516	369

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-144

1. Sample No. ....	<u>2305ND041</u>	11. Wire run out(m) .....	<u>150-0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>0</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>150-0</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59'57"S</u>	14. Flow-meter used .....	<u>RCS No.952</u>
	<u>39° 40'25"E</u>	15. Flow-meter reading.....	<u>820</u>
6. Sea depth(m).....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>13.85</u>
7. Date & time(LMT)...	<u>Nov. 4 '82, 10:30</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.6</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>567</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	4					4	+
3. Other medusae	I-3	1					1	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	3					3	+
6. Polychaeta			II-6	35			350	26
7. Cladocera							0	0
8. Ostracoda	I-8	2					2	+
9. Calanoida Copepoda	I-9-1	143	II-9-1	115			1293	95
Cyclopoida Copepoda					III-9-2	197	3940	289
Harpacticoida Copepoda			II-9-3	24			240	18
10. Copepoda, nauplius					III-10	41	820	60
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			II-21	3			30	2
22. Thaliacea							0	0
23. Egg			II-23	89			890	65
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	2	II-27	7			72	5
28. Unidentified forms	I-28	2	II-28	9			92	7
29. Radiolaria							0	0
<b>Total</b>		158		282		238	7738	567

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-145

1. Sample No. ....	<u>2305ND042</u>	11. Wire run out(m) .....	<u>300-150</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>0</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>300-150</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	_____
	<u>39° 40' 25" E</u>	15. Flow-meter reading .....	_____
6. Sea depth(m) .....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> ) ..	<u>16.94</u>
7. Date & time(LMT) ..	<u>Nov. 4 '82, 10:39</u>	calculated by .....	<u>Assumption</u>
(GMT) .....	_____	17. Wet weight(mg) per m <sup>3</sup> .....	_____
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.6</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>443</u>
10. Duration of haul ..	_____		

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	38					38	2
3. Other medusae	I-3	9					9	1
4. Ctenophora							0	0
5. Chaetognatha	I-5	7					7	+
6. Polychaeta			II-6	6			60	4
7. Cladocera							0	0
8. Ostracoda	I-8	6					6	+
9. Calanoida Copepoda	I-9-1	329	II-9-1	48			809	48
Cyclopoida Copepoda					III-9-2	284	5680	335
Harpacticoida Copepoda			II-9-3	3			30	2
10. Copepoda, nauplius					III-10	16	320	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							0	0
22. Thaliacea							0	0
23. Egg			II-23	35			350	21
24. Euphausiacea, nauplius			II-24	1			10	1
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms							0	0
28. Unidentified forms	I-28	13	II-28	15			163	10
29. Radiolaria							0	0
<b>Total</b>		<b>402</b>		<b>108</b>		<b>300</b>	<b>7482</b>	<b>443</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-146

1. Sample No. ....	<u>2305ND043</u>	11. Wire run out(m) .....	<u>600-300</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>0</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>600-300</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	
	<u>39° 40' 25" E</u>	15. Flow-meter reading .....	
6. Sea depth(m) .....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>33.88</u>
7. Date & time(LMT) ...	<u>Nov. 4 '82, 10:55</u>	calculated by ...	<u>Assumption</u>
(GMT) ...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.6</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>159</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	1			10	+
2. Siphonophora	I-2	8					8	+
3. Other medusae	I-3	4					4	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	49					49	1
6. Polychaeta			II-6	7			70	2
7. Cladocera							0	0
8. Ostracoda	I-8	47					47	1
9. Calanoida Copepoda	I-9-1	370					370	11
Cyclopoida Copepoda					III-9-2	219	4380	129
Harpacticoida Copepoda			II-9-3	1			10	+
10. Copepoda, nauplius					III-10	14	280	8
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			II-21	1			10	+
22. Thaliacea							0	0
23. Egg			II-23	10			100	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	5	II-28	5			55	2
29. Radiolaria							0	0
<b>Total</b>		<b>487</b>		<b>25</b>		<b>233</b>	<b>5397</b>	<b>159</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-147

1. Sample No. ....	<u>2305ND044</u>	11. Wire run out(m) .....	<u>150-0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>7</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>149-0</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59'57"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 40'25"E</u>	15. Flow-meter reading.....	<u>752</u>
6. Sea depth(m).....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>12.51</u>
7. Date & time(LMT)...	<u>Nov. 18 '82, 11:07</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.6</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>460</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	1			10	1
2. Siphonophora	I-2	10					10	1
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	4					4	+
6. Polychaeta			II-6	21			210	17
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	66	II-9-1	56			626	50
Cyclopoida Copepoda					III-9-2	142	2840	227
Harpacticoida Copepoda			II-9-3	18			180	14
10. Copepoda, nauplius					III-10	23	460	37
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda	I-13	1					1	+
14. Mysidacea							0	0
15. Euphausiacea	I-15	6					6	+
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	116			1160	93
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	2	II-27	19			192	15
28. Unidentified forms			II-28	5			50	4
29. Radiolaria							0	0
Total		89		236		165	5749	460

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-148

1. Sample No. ....	<u>2305ND045</u>	11. Wire run out(m) .....	<u>300-150</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>5</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>299-149</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	
	<u>39° 40' 25" E</u>	15. Flow-meter reading.....	
6. Sea depth(m).....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>16.94</u>
7. Date & time(LMT)...	<u>Nov. 18 '82, 11:16</u>	calculated by...	<u>Assumption</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.0</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>396</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	4					4	+
3. Other medusae	I-3	6					6	+
4. Ctenophora	I-4	1					1	+
5. Chaetognatha	I-5	9					9	1
6. Polychaeta			II-6	3			30	2
7. Cladocera							0	0
8. Ostracoda	I-8	3					3	+
9. Calanoida Copepoda	I-9-1	174	II-9-1	57			744	44
Cyclopoida Copepoda					III-9-2	259	5180	306
Harpacticoida Copepoda							0	0
10. Copepoda, nauplius					III-10	12	240	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							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg			II-23	44			440	26
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms			II-27	1			10	1
28. Unidentified forms	I-28	1	II-28	3			31	2
29. Radiolaria							0	0
<b>Total</b>		198		108		271	6698	396

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-149

1. Sample No. ....	<u>2305ND046</u>	11. Wire run out (m) .....	<u>600-300</u>
2. JARE .....	<u>23</u>	12. Wire angle (°) .....	<u>4</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>599-299</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59'57"S</u>	14. Flow-meter used .....	
	<u>39° 40'25"E</u>	15. Flow-meter reading .....	
6. Sea depth (m) .....	<u>675</u>	16. Volume of water filtered (m <sup>3</sup> ) ...	<u>33.88</u>
7. Date & time (LMT) ...	<u>Nov. 18 '82, 11:32</u>	calculated by ...	<u>Assumption</u>
(GMT) ...		17. Wet weight (mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC (100 μm)</u>	18. Settling volume (cc) per m <sup>3</sup> .....	<u>2.8</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>189</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	6					6	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	52					52	2
6. Polychaeta	I-6	1	II-6	22			221	7
7. Cladocera							0	0
8. Ostracoda	I-8	96					96	3
9. Calanoida Copepoda	I-9-1	356					356	11
Cyclopoida Copepoda					III-9-2	250	5000	148
Harpacticoida Copepoda							0	0
10. Copepoda, nauplius					III-10	13	260	8
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda	I-13	3					3	+
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			10	+
22. Thaliacea	I-22	1					1	+
23. Egg			II-23	21			210	6
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms	I-27	1	II-27	7			71	2
28. Unidentified forms	I-28	1	II-28	7			71	2
29. Radiolaria	I-29	2					2	+
<b>Total</b>		<b>521</b>		<b>58</b>		<b>263</b>	<b>6361</b>	<b>189</b>

+ : less than 1 indiv./m<sup>3</sup>



## ZOOPLANKTON RECORD SHEET

Series No. NOR-150

1. Sample No. ....	<u>2305NDO47</u>	11. Wire run out(m) .....	<u>150-0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>2</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>150-0</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59'57"S</u>	14. Flow-meter used .....	<u>RGS No.952</u>
	<u>39° 40'25"E</u>	15. Flow-meter reading.....	<u>834</u>
6. Sea depth(m).....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>13.88</u>
7. Date & time(LMT)...	<u>Dec. 3 '82, 08:54</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>2.8</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>903</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	5					5	+
3. Other medusae	I-3	2					2	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	1					1	+
6. Polychaeta			II-6	81			810	58
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	50	II-9-1	112			1170	84
Cyclopoida Copepoda					III-9-2	343	6860	494
Harpacticoida Copepoda			II-9-3	9			90	6
10. Copepoda, nauplius					III-10	45	900	65
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea	I-15	11					11	1
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	3			30	2
22. Thaliacea							0	0
23. Egg			II-23	150			1500	108
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms			II-27	112			1120	81
28. Unidentified forms	I-28	1	II-28	3			31	2
29. Radiolaria							0	0
Total		70		470		388	12530	903

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-151

1. Sample No. ....	<u>2305ND048</u>	11. Wire run out (m) .....	<u>300-150</u>
2. JARE .....	<u>23</u>	12. Wire angle (°) .....	<u>1</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>300-150</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	
	<u>39° 40' 25" E</u>	15. Flow-meter reading .....	
6. Sea depth (m) .....	<u>675</u>	16. Volume of water filtered (m <sup>3</sup> ) ..	<u>16.94</u>
7. Date & time (LMT) ...	<u>Dec. 3 '82, 09:04</u>	calculated by ...	<u>Assumption</u>
(GMT) ...		17. Wet weight (mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC (100 μm)</u>	18. Settling volume (cc) per m <sup>3</sup> .....	<u>1.2</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>287</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	1			10	1
2. Siphonophora	I-2	3					3	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	13					13	1
6. Polychaeta			II-6	5			50	3
7. Cladocera							0	0
8. Ostracoda	I-8	15					15	1
9. Calanoida Copepoda	I-9-1	116	II-9-1	44			556	33
Cyclopoida Copepoda					III-9-2	181	3620	214
Harpacticoida Copepoda			II-9-3	1			10	1
10. Copepoda, nauplius					III-10	8	160	9
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea	I-15	2					2	+
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	40			400	24
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	I-29	1					1	+
Total		151		91		189	4841	287

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-152

1. Sample No. ....	<u>2305ND049</u>	11. Wire run out(m) .....	<u>600-300</u>
2. JARE .....	<u>23</u>	12. Wire angle(°) .....	<u>3</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>599-300</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	_____
	<u>39° 40' 25" E</u>	15. Flow-meter reading .....	_____
6. Sea depth(m) .....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> ) .....	<u>33.88</u>
7. Date & time(LMT) ...	<u>Dec. 3 '82, 09:21</u>	calculated by ...	<u>Assumption</u>
(GMT) ...	_____	17. Wet weight(mg) per m <sup>3</sup> .....	_____
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>2.4</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>296</u>
10. Duration of haul ...	_____		

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	I-5	83					83	2
6. Polychaeta	I-6	4	II-6	29			294	9
7. Cladocera							0	0
8. Ostracoda	I-8	134					134	4
9. Calanoida Copepoda	I-9-1	279					279	8
Cyclopoida Copepoda					III-9-2	441	8820	260
Harpacticoida Copepoda			II-9-3	3			30	1
10. Copepoda, nauplius					III-10	10	200	6
11. Cumacea							0	0
12. Isopoda	I-12	2					2	+
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			II-23	17			170	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	II-28	2			23	1
29. Radiolaria	I-29	1					1	+
<b>Total</b>		<b>509</b>		<b>51</b>		<b>451</b>	<b>10039</b>	<b>296</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-153

1. Sample No. ....	<u>2305ND050</u>	11. Wire run out(m) .....	<u>150-0</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>3</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>150-0</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 40' 25" E</u>	15. Flow-meter reading.....	<u>758</u>
6. Sea depth(m).....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>12.61</u>
7. Date & time(LMT)...	<u>Dec. 15 '82, 10:46</u>	calculated by...	<u>Flow-meter</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>3.6</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>939</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	1			10	1
2. Siphonophora	I-2	48					48	4
3. Other medusae	I-3	4					4	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	2					2	+
6. Polychaeta			II-6	69			690	55
7. Cladocera							0	0
8. Ostracoda	I-8	1					1	+
9. Calanoida Copepoda	I-9-1	70	II-9-1	112			1190	94
Cyclopoida Copepoda					III-9-2	283	5660	449
Harpacticoida Copepoda			II-9-3	8			80	6
10. Copepoda, nauplius					III-10	53	1060	84
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea	I-15	6					6	+
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	3			30	2
22. Thaliacea							0	0
23. Egg			II-23	143			1430	113
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms			II-27	146			1460	116
28. Unidentified forms	I-28	14	II-28	16			174	14
29. Radiolaria							0	0
<b>Total</b>		<b>145</b>		<b>498</b>		<b>336</b>	<b>11845</b>	<b>939</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-154

1. Sample No. ....	<u>2305ND051</u>	11. Wire run out(m) .....	<u>300-150</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>4</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>299-150</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59'57"S</u>	14. Flow-meter used .....	_____
	<u>39° 40'25"E</u>	15. Flow-meter reading.....	_____
6. Sea depth(m).....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>16.94</u>
7. Date & time(LMT)...	<u>Dec. 15 '82, 10:57</u>	calculated by...	<u>Assumption</u>
(GMT)...	_____	17. Wet weight(mg) per m <sup>3</sup> .....	_____
8. Net used.....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.0</u>
9. Method of haul.....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>268</u>
10. Duration of haul...	_____		

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial	Vial No.	Indiv. No. in vial		
1. Foraminifera			II-1	2			20	1
2. Siphonophora	I-2	3					3	+
3. Other medusae	I-3	2					2	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	24					24	1
6. Polychaeta			II-6	9			90	5
7. Cladocera							0	0
8. Ostracoda	I-8	9					9	1
9. Calanoida Copepoda	I-9-1	811					811	48
Cyclopoida Copepoda					III-9-2	151	3020	178
Harpacticoida Copepoda							0	0
10. Copepoda, nauplius					III-10	12	240	14
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea	I-15	1					1	+
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	26			260	15
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms			II-27	3			30	2
28. Unidentified forms	I-28	3	II-28	3			33	2
29. Radiolaria							0	0
Total		853		43		163	4543	268

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-155

1. Sample No. ....	<u>2305ND052</u>	11. Wire run out (m) .....	<u>600-300</u>
2. JARE .....	<u>23</u>	12. Wire angle (°) .....	<u>2</u>
3. Area .....	<u>Syowa Statlon</u>	13. Depth of haul (m) .....	<u>599-300</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59'57"S</u>	14. Flow-meter used .....	
	<u>39° 40'25"E</u>	15. Flow-meter reading .....	
6. Sea depth (m) .....	<u>675</u>	16. Volume of water filtered (m <sup>3</sup> ) ...	<u>33.88</u>
7. Date & time (LMT) ...	<u>Dec. 15 '82, 11:15</u>	calculated by ...	<u>Assumption</u>
(GMT) ...		17. Wet weight (mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC (100 μm)</u>	18. Settling volume (cc) per m <sup>3</sup> .....	<u>1.2</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>119</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	6					6	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	48					48	1
6. Polychaeta	I-6	1	II-6	11			111	3
7. Cladocera							0	0
8. Ostracoda	I-8	90					90	3
9. Calanoida Copepoda	I-9-1	198					198	6
Cyclopoida Copepoda					III-9-2	153	3060	90
Harpacticoida Copepoda							0	0
10. Copepoda, nauplius					III-10	12	240	7
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							0	0
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia							0	0
22. Thaliacea							0	0
23. Egg			II-23	19			190	6
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms			II-27	2			20	1
28. Unidentified forms			II-28	7			70	2
29. Radiolaria							0	0
Total		344		39		165	4034	119

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-156

1. Sample No. ....	<u>2305ND053</u>	11. Wire run out (m) .....	<u>150-0</u>
2. JARE .....	<u>23</u>	12. Wire angle (°) .....	<u>3</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>150-0</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59' 57" S</u>	14. Flow-meter used .....	<u>RGS No. 952</u>
	<u>39° 40' 25" E</u>	15. Flow-meter reading .....	<u>712</u>
6. Sea depth (m) .....	<u>675</u>	16. Volume of water filtered (m <sup>3</sup> ) ...	<u>11.85</u>
7. Date & time (LMT) ...	<u>Dec. 15 '82, 23:34</u>	calculated by ...	<u>Flow-meter</u>
(GMT) ...		17. Wet weight (mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC (100 μm)</u>	18. Settling volume (cc) per m <sup>3</sup> .....	<u>3.4</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>1203</u>
10. Duration of haul ...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	19					19	2
3. Other medusae	I-3	3					3	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	5					5	+
6. Polychaeta			II-6	45			450	38
7. Cladocera							0	0
8. Ostracoda	I-8	2					2	+
9. Calanoida Copepoda	I-9-1	98	II-9-1	34			438	37
Cyclopoida Copepoda					III-9-2	413	8260	697
Harpacticoida Copepoda			II-9-3	1			10	1
10. Copepoda, nauplius					III-10	77	1540	130
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea	I-15	33					33	3
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	4			40	3
22. Thaliacea							0	0
23. Egg			II-23	85			850	72
24. Euphausiacea, nauplius			II-24	1			10	1
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms			II-27	243			2430	205
28. Unidentified forms			II-28	16			160	14
29. Radiolaria							0	0
Total		160		429		490	14250	1203

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-157

1. Sample No. ....	<u>2305ND054</u>	11. Wire run out(m) .....	<u>300-150</u>
2. JARE .....	<u>23</u>	12. Wire angle(') .....	<u>2</u>
3. Area .....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>300-150</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position .....	<u>68° 59'57"S</u>	14. Flow-meter used .....	
	<u>39° 40'25"E</u>	15. Flow-meter reading .....	
6. Sea depth(m) .....	<u>675</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>16.94</u>
7. Date & time(LMT)...	<u>Dec. 15 '82, 23:47</u>	calculated by...	<u>Assumption</u>
(GMT)...		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	<u>NORPAC(100 μm)</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.2</u>
9. Method of haul .....	<u>Vertical</u>	19. Total number per m <sup>3</sup> .....	<u>259</u>
10. Duration of haul...			

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	33					33	2
3. Other medusae	I-3	1					1	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	20					20	1
6. Polychaeta			II-6	2			20	1
7. Cladocera							0	0
8. Ostracoda	I-8	2					2	+
9. Calanoida Copepoda	I-9-1	210	II-9-1	39			600	35
Cyclopoida Copepoda					III-9-2	159	3180	188
Harpacticoida Copepoda							0	0
10. Copepoda, nauplius					III-10	8	160	9
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea	I-15	4					4	+
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	31			310	18
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms			II-27	4			40	2
28. Unidentified forms			II-28	1			10	1
29. Radiolaria							0	0
Total		270		77		167	4380	259

+ : less than 1 indiv./m<sup>3</sup>



## ZOOPLANKTON RECORD SHEET

Series No. NOR-158

1. Sample No. ....	<u>2305ND055</u>	11. Wire run out(m) .....	<u>600-300</u>
2. JARE.....	<u>23</u>	12. Wire angle(°).....	<u>0</u>
3. Area.....	<u>Syowa Station</u>	13. Depth of haul (m) .....	<u>600-300</u>
4. Station No. ....	<u>5</u>	estimated by .....	<u>wire length/angle</u>
5. Position.....	<u>68° 59'57"S</u> <u>39° 40'25"E</u>	14. Flow-meter used .....	.....
6. Sea depth(m).....	<u>675</u>	15. Flow-meter reading.....	.....
7. Date & time(LMT)...	<u>Dec. 15 '82, 00:06</u>	16. Volume of water filtered(m <sup>3</sup> )...	<u>33.88</u>
(GMT)...	.....	calculated by...	<u>Assumption</u>
8. Net used.....	<u>NORPAC(100 μm)</u>	17. Wet weight(mg) per m <sup>3</sup> .....	.....
9. Method of haul.....	<u>Vertical</u>	18. Settling volume(cc) per m <sup>3</sup> .....	<u>1.2</u>
10. Duration of haul...	.....	19. Total number per m <sup>3</sup> .....	<u>179</u>

Proportion of Sample sorted	[ 1/1 Sample ] [ Sort I ]		[ 1/10 Sample ] [ Sort II ]		[ 1/20 Sample ] [ Sort III ]		Indiv. No. per haul	Indiv. No. per m <sup>3</sup>
	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	3					3	+
3. Other medusae							0	0
4. Ctenophora							0	0
5. Chaetognatha	I-5	58					58	2
6. Polychaeta			II-6	12			120	4
7. Cladocera							0	0
8. Ostracoda	I-8	102					102	3
9. Calanoida Copepoda	I-9-1	333					333	10
Cyclopoida Copepoda					III-9-2	242	4840	143
Harpacticoida Copepoda			II-9-3	1			10	+
10. Copepoda, nauplius					III-10	17	340	10
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda	I-13	55					55	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			II-21	1			10	+
22. Thaliacea							0	0
23. Egg			II-23	17			170	5
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
<b>Total</b>		<b>551</b>		<b>31</b>		<b>259</b>	<b>6041</b>	<b>179</b>

+ : less than 1 indiv./m<sup>3</sup>

## ZOOPLANKTON RECORD SHEET

Series No. NOR-159

1. Sample No. ....	2305ND056	11. Wire run out(m) .....	150-0
2. JARE .....	23	12. Wire angle(') .....	4
3. Area .....	Syowa Station	13. Depth of haul (m) .....	149-0
4. Station No. ....	5	estimated by .....	wire length/angle
5. Position .....	68° 59'57"S	14. Flow-meter used .....	RGS No.952
	39° 40'25"E	15. Flow-meter reading .....	1123
6. Sea depth(m) .....	675	16. Volume of water filtered(m <sup>3</sup> ) .....	18.67
7. Date & time(LMT) .....	Dec. 27 '82, 10:06	calculated by .....	Flow-meter
(GMT) .....		17. Wet weight(mg) per m <sup>3</sup> .....	
8. Net used .....	NORPAC(100 μm)	18. Settling volume(cc) per m <sup>3</sup> .....	
9. Method of haul .....	Vertical	19. Total number per m <sup>3</sup> .....	549
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 <sup>3</sup>
	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	31					31	2
3. Other medusae	I-3	5					5	+
4. Ctenophora							0	0
5. Chaetognatha	I-5	4					4	+
6. Polychaeta			II-6	112			1120	60
7. Cladocera							0	0
8. Ostracoda							0	0
9. Calanoida Copepoda	I-9-1	89	II-9-1	71			799	43
Cyclopoida Copepoda			II-9-2	466			4660	250
Harpacticoida Copepoda			II-9-3	9			90	5
10. Copepoda, nauplius			II-10	93			930	50
11. Cumacea							0	0
12. Isopoda							0	0
13. Amphipoda							0	0
14. Mysidacea							0	0
15. Euphausiacea	I-15	25					25	1
16. Decapoda							0	0
17. Other Crustacea							0	0
18. Heteropoda/Pteropoda			II-18	4			40	2
19. Cephalopoda							0	0
20. Other Mollusca							0	0
21. Appendicularia			II-21	23			230	12
22. Thaliacea							0	0
23. Egg			II-23	19			190	10
24. Euphausiacea, nauplius							0	0
25. Nematoda							0	0
26. Fish larvae							0	0
27. Planktonic larval forms			II-27	209			2090	112
28. Unidentified forms	I-28	8	II-28	2			28	1
29. Radiolaria							0	0
Total		162		1008			10242	549

+ : less than 1 indiv./m<sup>3</sup>