RU-718

2019/WP 3859

EARLY LIFE HISTORY OF PACIFIC HERRING:
Prince William Sound Herring Larvae Survey

Appendices

Contract No.: 50ABNC-7-00141

Prepared for:

NOAA, National Ocean Service/OMA/OAD
222 West 8th Avenue
P.O. Box 56
Anchorage, Alaska 99513-7543
U.S.A.

Prepared by:

Michael McGurk
David Warburton
Violet Komori

TRITON
Environmental Consultants Ltd.
#205 - 2250 Boundary Road
Burnaby, B.C. V5M 323
Phone: (604) 291-0292
Fax: (604) 291-2139

April 1990

LIST OF APPENDICES

D Temperature and salinity profiles.

E Densities of micro- and macrozooplankton.

F Prey concentrations.

G Lengths of herring larvae.

H Morphometry of herring larvae.

I Number and width of rings in the sagittal otoliths of herring larvae.

J Concentrations of RNA and DNA in herring larvae.

Appendix D. Temperature and salinity profiles in Prince William Sound, 1989.

Date	Site	Time	Depth (m)	Temp (°C)	Salinity (ppt)
2-May-89	Tatitlek Narrows	0735	0	7.9	29.8
2-May-89	Tatitlek Narrows	0735	2	7.0	31.4
2-May-89	Tatitlek Narrows	0735	4	5.9	31.9
2-May-89	Tatitlek Narrows	0735	6	5.4	32.1
2-May-89	Tatitlek Narrows	0735	8	5.2	32.3
2-May-89	Tatitlek Narrows	0735	10	5.0	32.4
2-May-89	Tatitlek Narrows	0735	12	4.8	32.4
2-May-89	Tatitlek Narrows	0735	14	4.8	32.4
2-May-69	Tatitlek Narrows	0735	16	4.7	32.4
2-May-89	Tatitlek Narrows	0735	18	4.6	32.4
2-May-89	Tatitlek Narrows	0735	20	4.6	32.4
2-May-89	Tatitlek Narrows	0735	22	4.5	32.5
2-May-89	Tatitlek Narrows	0735	24	4.5	32.5
2-May-89	Tatitlek Narrows	0735	26	4.5	32.6
2-May-89	Tatitlek Narrows	0735	28	4.4	32.6
2-May-89	Tatitlek Narrows	0735	30	4.4	32.6
			Mean	5.1	32.2
			SD	1.0	0.7
			n	16	16
2-May-89	Fairmount Island	1835	o	9.7	27.6
2-May-89	Fairmount Island	1835	2	7.0	29.3
2-May-89	Fairmount Island	1835	4	5.7	30.4
2-May-89	Fairmount Island	1835	6	5.2	31.1
2-May-89	Fairmount Island	1835	8	5.1	31.3
2-May-89	Fairmount Island	1835	10	4.9	31.5
2-May-89	Fairmount Island	1835	12	4.9	31.7
2-May-89	Fairmount Island	1835	14	4.9	31.9
2-May-89	Fairmount Island	1835	16	4.9	31.9
2-May-69	Fairmount Island	1835	18	4.9	32.1
2-May-89	Fairmount Island	1835	20	4.8	32.2
2-May-89	Fairmount island	1835	22	4.8	32.3
2-May-89	Fairmount island	1835	24	4.8	32.4
2-May-69	Fairmount Island	1835	26	4.8	32.4
2-May-89	Fairmount Island	1835	28	4.8	32.5
2-May-89	Fairmount Island	1835	30	4.9	32.6
			Mean	5.4	31,4
			SD	1.3	1.3
			n	16	16

Appendix D. Temperature and salinity profiles in Prince William Sound, 1989.

Date	Site	Time	Depth (m)	Temp (°C)	Salinity (ppt)
12-May-89	Bass Harbour	1515	0	6.0	31.9
12-May-89	Bass Harbour	1515	2	6.0	31.7
12-May-89	Bass Harbour	1515	4	6.0	32.1
12-May-89	Bass Harbour	1515	6	6.0	32.1
12-May-89	Bass Harbour	1515	8	6.1	32.1
12-May-89	Bass Harbour	1515	10	5.9	32.2
12-May-88	Bass Harbour	1515	12	5.8	32.2
12-May-88	Bass Harbour	1515	14	5.6	32.2
12-May-89	Bass Harbour	1515	16	5.6	32.1
12-May-89	Bass Harbour	1515	18	5.5	32.1
12-May-89	Bass Harbour	1515	20	5.2	32.3
12-May-89	Bass Harbour	1515	22	5.1	32.4
12-May-89	Bass Harbour	1515	24	4.9	32.4
12-May-89	Bass Harbour	1515	26	4.8	32.5
12-May-89	Bass Harbour	1515	28	4.7	32.6
12-May-89	Bass Harbour	1515	30	4.6	32.6
			Mean	5.5	32.2
			SD	0.5	0.2
			n	16	16
12-May-89	Fairmount Island	1935	o	7.2	29.4
12-May-89	Fairmount Island	1935	2	7.1	29.3
12-May-89	Fairmount Island	1935	4	7.1	30.0
12-May-89	Fairmount Island	1935	6	6.2	30.8
12-May-89	Fairmount Island	1935	8	5.5	31.2
12-May-89	Fairmount Island	1935	10	5.1	31.3
12-May-89	Fairmount Island	1935	12	4.9	31.5
12-May-89	Fairmount Island	1935	14	4.8	31.5
12-May-89	Fairmount Island	1835	16	4.8	31.8
12-May-89	Fairmount island	1935	18	4.8	32.0
12-May-89	Fairmount Island	1935	20	4.8	32.1
12-May439	Fairmount Island	1935	22	4.8	32.4
12-May-89	Fairmount Island	1935	24	4.8	32.4
12-May-89	Fairmount Island	1935	26		-
12-May-89	Fairmount Island	1935	28		-
12-May-89	Fairmount Island	1935	30		-
			Mean	5.5	31.2
			SD	1.0	1.1
			n	13	13

Appendix D. Temperature and salinity profiles in Prince William Sound, 1989.

Date	Site	Time	Depth (m)	Temp (°C)	Salinity (ppt)
20-May-89	Tatitlek Narrows	1740	o	10.1	29.3
20-May-89	Tatitlek Narrows	1740	2	9.4	29.6
20-May-89	Tatitlek Narrows	1740	4	9.0	30.0
20-May-89	Tatitlek Narrows	1740	6	8.3	30.4
20-May-89	Tatitlek Narrows	1740	8	7.6	30.6
20-May-89	Tatitlek Narrows	1740	10	7.4	30.7
20-May-89	Tatitlek Narrows	1740	12	7.1	30.8
20-May-89	Tatitlek Narrows	1740	14	7.1	31.1
20-May-89	Tatitlek Narrows	1740	16	6.9	31.2
20-May-89	Tatitlek Narrows	1740	18	6.7	31.3
20-May-89	Tatitlek Narrows	1740	20	6.5	31.3
20-May-89	Tatitlek Narrows	1740	22	6.3	31.4
20-May-89	Tatitlek Narrows	1740	24	6.2	31.5
20-May-89	Tatitlek Narrows	1740	26	6.1	31.5
20-May-89	Tatitlek Narrows	1740	28	5.9	31.6
20-May-69	Tatitlek Narrows	1740	30	5.7	31.7
			M	7.3	30.9
			SD	1.3	0.7
			n	16	16
21-May-89	Rocky Bay	1020	0	7.4	31.6
21-May-89	Rocky Bay	1020	2	7.4	31.6
21-May-89	Rocky Bay	1020	4	7.4	31.7
21-May-89	Rocky Bay	1020	6	7.3	31.7
21-May-89	Rocky Bay	1020	8	7.2	31.7
21-May-89	Rocky Bay	1020	10	6.9	31.7
21-May-89	Rocky Bay	1020	12	6.7	31.7
21-May-89	Rocky Bay	1020	14	6.4	31.8
21-May-89	Rocky Bay	1020	16	6.1	31.9
21-May-89	Rocky Bay	1020	18	5.9	31.9
21-May-89	Rocky Bay	1020	20	5.8	31.9
21-May-89	Rocky Bay	1020	22	5.7	31.9
21-May-89	Rocky Bay	1020	24	5.7	32.0
21-May-89	Rocky Bay	1020	26	5.6	32.1
21-May-89	Rocky Bay	1020	28	5.6	32.1
21-May-89	Rocky Bay	1020	30	5.6	32.1
			Mean	6.4	31.8
			SD	0.7	0.2
			n	16	16

Appendix D. Temperature and salinity profiles in Prince William Sound, 1989.

Date	Site	Time	Depth (m)	Temp (°C)	Salinity (ppt)
21 -May-89	Bass Harbour	1500	0	7.9	30.2
21-May-89	Bass Harbour	1500	2	7.9	30.6
21-May-89	Bass Harbour	1500	4	7.8	30.8
21-May-89	Bass Harbour	1500	6	7.3	31.2
21-May-89	Bass Harbour	1500	8	6.9	31.3
21-May-89	Bass Harbour	1500	10	6.8	31.4
21-May-89	Bass Harbour	1500	12	6.7	31.4
21-May-89	Bass Harbour	1500	14	6.6	31.5
21-May-89	Bass Harbour	1500	16	6.5	31.5
21-May-89	Bass Harbour	1500	18	6.5	31.6
21-May-89	Bass Harbour	1500	20	6.5	31.7
21-May-89	Bass Harbour	1500	22	6.2	31.7
21-May-89	Bass Harbour	1500	24	6.1	31.7
21-May-89	Bass Harbour	1500	26	6.0	31.7
21-May-89	Bass Harbour	1500	28	5.9	31.8
21-May-89	Bass Harbour	1500	30	5.7	31.9
			Mean	6.7	31.4
			SD	0.7	0.5
			n	16	16
21-May-89	Fairmount Island	2015	o	8.8	28.3
21-May-89	Fairmount Island	2015	2	8.4	28.7
21-May-89	Fairmount Island	2015	4	7.4	29.8
21-May-89	Fairmount Island	2015	6	7.0	30.4
21-May-89	Fairmount Island	2015	8	6.4	30.6
21 -May-89	Fairmount Island	2015	10	6.1	30.9
21-May-89	Fairmount island	2015	12	5.8	31.0
21 -May-89	Fairmount Island	2015	14	5.9	31.2
21-May-89	Fairmount Island	2015	16	5.8	31.3
21-May-89	Fairmount Island	2015	18	5.7	31.4
21-May-89	Fairmount Island	2015	20	5.5	31.5
21-May-89	Fairmount Island	2015	22	5.3	31.6
21-May-89	Fairmount Island	2015	24	5.1	31.7
21-May-89	Fairmount Island	2015	26	5.1	31.7
21-May-89	Fairmount Island	2015	28	5.0	31.8
21-May-89	Fairmount Island	2015	30	4.9	31.9
			Mean	6.1	30.9
			SD	1.2	1.1
			n	16	16

Appendix D. Temperature and salinity profiles in Prince William Sound, 1989.

Date	Site	Time	Depth (m)	Temp (°C)	Salinity (ppt)
29-May-89	Fairmount Island	1325	0	9.0	28.3
29-May-89	Fairmount island	1325	2	8.8	28.7
29-May-89	Fairmount Island	1325	4	8.7	29.3
29-May-89	Fairmount Island	1325	6	8.7	29.5
29-May-89	Fairmount Island	1325	8	8.0	30.0
29-May-89	Fairmount Island	1325	10	8.2	30.2
29-May-89	Fairmount island	1325	12	8.3	30.3
29-May-89	Fairmount Island	1325	14	8.3	30.3
29-May-89	Fairmount Island	1325	16	6.2	30.4
29-May-89	Fairmount Island	1325	18	5.7	31.0
29-May-89	Fairmount Island	1325	20	5.6	31.3
29-May-89	Fairmount Island	1325	22	5.5	31.3
29-May-89	Fairmount Island	1325	24	5.4	31.6
29-May-89	Fairmount Island	1325	26	5.4	31.7
29-May-89	Fairmount Island	1325	28	5.3	31.8
29-May-89	Fairmount Island	1325	30	5.3	31.9
			Mean	7.0	30.5
			SD	1.6	1.1
			n	16	16
29-May-89	Bass Harbour	1730	o	7.8	30.8
29-May-89	Bass Harbour	1730	2	7.7	30.8
29-May-89	Bass Harbour	1730	4	7.7	30.8
29-May-89	Bass Harbour	1730	6	7.6	30.9
29-May-89	Bass Harbour	1730	8	7.4	31.0
29-May-89	Bass Harbour	1730	10	7.4	31.1
29-May-89	Bass Harbour	1730	12	7.4	31.1
29-May-89	Bass Harbour	1730	14	7.3	31.1
29-May-89	Bass Harbour	1730	16	7.0	31.2
29-May-89	Bass Harbour	1730	18	6.8	31.3
29-May-89	Bass Harbour	1730	20	6.8	31.3
29-May-89	Bass Harbour	1730	22	6.5	31.4
29-May-89	Bass Harbour	1730	24	6.2	31.5
29-May-89	Bass Harbour	1730	26	6.2	31.6
29-May-89	Bass Harbour	1730	28	6.2	31.6
29-May-89	Bass Harbour	1730	30	6.1	31.6
			Mean	7.0	31.2
			SD	0.6	0.3
			n	16	16

Appendix D. Temperature and salinity profiles in Prince William Sound, 1989.

Date	Site	Time	Depth (m)	Temp (°C)	Salinity (ppt)
30- May-89	Rocky Bay	915	0	8.5	16.4
30-May-89	Rocky Bay	915	2	7.2	30.8
30-May-89	Rocky Bay	915	4	6.3	31.7
30-May-89	Rocky Bay	915	6	6.0	32.0
30-May-89	Rocky Bay	915	8	5.8	32.1
30-May-89	Rocky Bay	915	10	5.6	32.1
30-May-89	Rocky Bay	915	12	5.5	32.1
30-May-89	Rocky Bay	915	14	5.4	32.1
30-May-89	Rocky Bay	915	16	5.3	32.2
30-May-89	Rocky Bay	915	18	5.2	32.2
30-May-89	Rocky Bay	915	20	5.2	32.2
30-May-89	Rocky Bay	915	22	5.1	32.3
30-May-89	Rocky Bay	915	24	5.1	32.3
30-May-89	Rocky Bay	915	26	5.1	32.3
30-May-89	Rocky Bay	915	28	5.0	32.3
30-May-89	Rocky Bay	915	30	5.0	32.3
			Mean	5.7	31.1
			SD	0.9	3.9
			n	16	16
30-May-89	Tatitlek Narrows	1600	0	9.3	29.2
30-May-89	Tatitlek Narrows	1600	2	9.3	29.3
30-May-89	Tatitlek Narrows	1600	4	9.3	29.5
30-May-89	Tatitlek Narrows	1600	6	9.1	29.8
30-May-89	Tatitlek Narrows	1600	8	8.9	30.2
30-May-89	Tatitlek Narrows	1600	10	8.8	30.3
30-May-89	Tatitlek Narrows	1600	12	8.7	30.3
30-May-89	Tatitlek Narrows	1600	14	8.5	30.4
30-May-89	Tatitlek Narrows	1600	16	8.2	30.6
30-May-89	Tatitlek Narrows	1600	18	7.8	30.7
30-May-89	Tatitlek Narrows	1600	20	7.1	31.1
30-May-89	Tatitlek Narrows	1600	22	6.4	31.4
30-May-89	Tatitlek Narrows	1600	24	6.0	31.5
30-May-89	Tatitlek Narrows	16J30	26	5.8	31.6
30-May-89	Tatitlek Narrows	1600	28	5.8	31.7
30-May-89	Tatitlek Narrows	1600	30	5.6	31.7
			Mean	7.8	30.6
			SD	1.4	0.9
			n	16	16

Appendix D. Temperature and salinity profiles in Prince William Sound, 1989.

Date	Site	Time	Depth (m)	Temp (°C)	Salinity (ppt)
7-Jun-89	Tatitlek Narrows	750	0	10.6	23.6
7-Jun-89	Tatitlek Narrows	750	2	8.7	29.3
7-Jun-89	Tatitlek Narrows	750	4	8.6	29.2
7-Jun-89	Tatitlek Narrows	750	6	8.2	29.8
7-Jun-89	Tatitlek Narrows	750	8	8.0	29.9
7-Jun-89	Tatitlek Narrows	750	10	7.8	30.0
7-Jun-89	Tatitlek Narrows	750	12	8.2	30.2
7-Jun-89	Tatitlek Narrows	750	14	8.2	30.3
7-Jun-89	Tatitlek Narrows	750	16	8.2	30.5
7-Jun-89	Tatitlek Narrows	750	18	8.2	30.6
7-Jun-89	Tatitlek Narrows	750	20	8.0	30.6
7-Jun-89	Tatitlek Narrows	750	22	8.0	30.8
7-Jun-89	Tatitlek Narrows	750	24	7.9	30.8
7-Jun-89	Tatitlek Narrows	750	26	7.8	30.8
7-Jun-89	Tatitlek Narrows	750	28	7.7	30.8
7-Jun-89	Tatitlek Narrows	750	30	7.8	30.9
			Mean	8.2	29.9
			SD	0.7	1.8
			n	16	16
7-Jun-89	Fairmount Island	1250	o	9.2	27.2
7-Jun-89	Fairmount Island	1250	2	8.9	27.4
7-Jun-89	Fairmount Island	1250	4	8.4	28.8
7-Jun-89	Fairmount Island	1250	6	8.4	29.2
7-Jun-89	Fairmount Island	1250	8	8.3	29.4
7-Jun-89	Fairmount Island	1250	10	7.8	29.6
7-Jun-89	Fairmount Island	1250	12	7.9	30.0
7-Jun-89	Fairmount Island	1250	14	7.7	30.3
7-Jun-89	Fairmount Island	1250	16	7.6	30.5
7-Jun-89	Fairmount Island	1250	18	7.5	29.3
7-Jun-89	Fairmount Island	1250	20	7.4	30.8
7-Jun-89	Fairmount Island	1250	22	7.3	30.8
7-Jun-89	Fairmount Island	1250	24	7.2	31.0
7-Jun-89	Fairmount Island	1250	26	7.0	31.1
7-Jun-89	Fairmount Island	1250	28	6.7	31.3
7-Jun-89	Fairmount Island	1250	30	6.5	31.3
			Mean	7.7	29.9
			SD	0.8	1.3
			n	16	16

Appendix D. Temperature and salinity profiles in Prince William Sound, 1989.

Date	Site	Time	Depth (m)	Temp (“C)	Salinity (ppt)
7-Jun-89	Rocky Bay	1856	0	8.7	30.9
7-Jun-89	Rocky Bay	1856	2	8.6	30.8
7-Jun-89	Rocky Bay	1856	4	8.5	31.0
7-Jun-89	Rocky Bay	1856	6	8.2	31.1
7-Jun-89	Rocky Bay	1856	8	8.0	31.1
7-Jun-89	Rocky Bay	1856	10	7.9	31.2
7-Jun-89	Rocky Bay	1856	12	7.8	31.2
7-Jun-89	Rocky Bay	1856	14	7.8	31.2
7-Jun-89	Rocky Bay	1856	16	7.8	31.2
7-Jun-89	Rocky Bay	1856	18	7.6	31.3
7-Jun-89	Rocky Bay	1856	20	7.4	31.3
7-Jun-89	Rocky Bay	1856	22	7.3	31.3
7-Jun-89	Rocky Bay	1856	24	7.3	31.3
7-Jun-89	Rocky Bay	1856	26	7.3	31.4
7-Jun-89	Rocky Bay	1856	28		-
7-Jun-89	Rocky Bay	1856	30	.	
			Mean	7.9	31.2
			SD	0.5	0.2
			n	14	14
8-Jun-89	Bass Harbour	800	o	8.6	30.7
8-Jun-89	Bass Harbour	800	2	8.1	30.6
8-Jun-89	Bass Harbour	800	4	7.7	31.0
8-Jun-89	Bass Harbour	800	6	7.4	31.1
8-Jun-89	Bass Harbour	800	8	7.2	31.3
8-Jun-89	Bass Harbour	800	10	7.0	31.3
8-Jun-89	Bass Harbour	800	12	6.8	31.3
8-Jun-89	Bass Harbour	800	14	6.8	31.4
8-Jun-89	Bass Harbour	800	16	6.6	31.4
8-Jun-89	Bass Harbour	800	18	6.2	31.6
8-Jun-89	Bass Harbour	800	20	6.0	31.7
8-Jun-89	Bass Harbour	800	22	5.9	31.7
8-Jun-89	Bass Harbour	800	24	5.9	31.7
8-Jun-89	Bass Harbour	800	26	5.7	31.7
8-Jun-89	Bass Harbour	800	28	5.6	31.9
8-Jun-89	Bass Harbour	800	30	5.3	32.0
			Mean	6.7	31.4
			SD	1.0	0.4
			n	16	16

Appendix D. Temperature and salinity profiles in Prince William Sound, 1989.

Date	Site	Time	Depth (m)	Temp (“C)	Salinity (ppt)
12-Jun-89	Tatitlek Narrows	1300	0	11.0	28.0
12-Jun-89	Tatitlek Narrows	1300	2	10.6	28.2
12-Jun-89	Tatitlek Narrows	1300	4	10.3	28.5
12-Jun-89	Tatitlek Narrows	1300	6	9.6	28.9
12-Jun-89	Tatitlek Narrows	1300	8	8.7	29.6
12-Jun-89	Tatitlek Narrows	1300	10	8.5	29.8
12-Jun-89	Tatitlek Narrows	1300	12	8.3	29.9
12-Jun-89	Tatitlek Narrows	1300	14	8.2	30.2
12-Jun-89	Tatitlek Narrows	1300	16	8.1	30.3
12-Jun-89	Tatitlek Narrows	1300	18	8.0	30.4
12-Jun-89	Tatitlek Narrows	1300	20	7.8	30.5
12-Jun-89	Tatitlek Narrows	1300	22	7.7	30.6
12-Jun-89	Tatitlek Narrows	1300	24	7.5	30.8
12-Jun-89	Tatitlek Narrows	1300	26	7.2	30.9
12-Jun-89	Tatitlek Narrows	1300	28	7.0	31.0
12-Jun-89	Tatitlek Narrows	1300	30	6.7	31.1
			Mean	8.5	29.9
			SD	1.3	1.0
			n	16	16
12-Jun-89	Rocky Bay	2050	o	8.7	30.2
12-Jun-89	Rocky Bay	2050	2	8.7	30.2
12-Jun-89	Rocky Bay	2050	4	8.2	30.9
12-Jun-89	Rocky Bay	2050	6	7.8	31.2
12-Jun-89	Rocky Bay	2050	8	7.6	31.3
12-Jun-89	Rocky Bay	2050	10	7.3	31.3
12-Jun-89	Rocky Bay	2050	12	7.2	31.4
12-Jun-89	Rocky Bay	2050	14	7.1	31.4
12-Jun-89	Rocky Bay	2050	16	6.8	31.5
12-Jun-89	Rocky Bay	2050	18	6.7	31.6
12-Jun-89	Rocky Bay	2050	20	6.6	31.6
12-Jun-89	Rocky Bay	2050	22	6.4	31.7
12-Jun-89	Rocky Bay	2050	24	6.1	31.8
12-Jun-89	Rocky Bay	2050	26	5.9	31.9
12-Jun-89	Rocky Bay	2050	28	5.8	31.9
12-Jun-89	Rocky Bay	2050	30	5.7	32.0
			Mean	7.0	31.4
			SD	1.0	0.6
			n	16	16

Appendix D. Temperature and salinity profiles in Prince William Sound, 1989.

Date	Site	Time	Depth (m)	Temp (°C)	Salinity (ppt)
13-Jun-89	Bass Harbour	835	0	8.8	29.8
13-Jun-89	Bass Harbour	835	2	8.8	29.8
13-Jun-89	Bass Harbour	835	4	8.7	29.9
13-Jun-89	Bass Harbour	835	6	8.8	30.0
13-Jun-89	Bass Harbour	835	8	8.9	30.0
13-Jun-89	Bass Harbour	835	10	8.8	30.0
13-Jun-89	Bass Harbour	835	12	8.7	30.0
13-Jun-89	Bass Harbour	835	14	8.7	30.0
13-Jun-89	Bass Harbour	835	16	8.1	30.3
13-Jun-89	Bass Harbour	835	18	7.5	30.8
13-Jun-89	Bass Harbour	835	20	7.3	31.0
13-Jun-89	Bass Harbour	835	22	7.1	31.1
13-Jun-89	Bass Harbour	835	24	7.0	31.2
13-Jun-89	Bass Harbour	835	26	6.7	31.3
13-Jun-89	Bass Harbour	835	28	6.5	31.5
13-Jun-89	Bass Harbour	835	30	6.4	31.5
			Mean	7.9	30.5
			SD	1.0	0.7
			n	16	16
13-Jun-89	Fairmount Island	1330	o	9.1	26.0
13-Jun-89	Fairmount Island	1330	2	8.9	26.4
13-Jun-89	Fairmount Island	1330	4	7.9	28.2
13-Jun-89	Fairmount Island	1330	6	8.1	28.9
13-Jun-89	Fairmount Island	1330	8	8.1	29.2
13-Jun-89	Fairmount Island	1330	10	8.1	29.6
13-Jun-89	Fairmount Island	1330	12	7.9	30.0
13-Jun-89	Fairmount Island	1330	14	7.6	30.2
13-Jun-89	Fairrnount Island	1330	16	7.4	30.5
13-Jun-89	Fairmount Island	1330	18	7.3	30.6
13-Jun-89	Fairmount Island	1330	20	7.2	30.8
13-Jun-89	Fairmount Island	1330	22	7.1	30.9
13-Jun-89	Fairmount Island	1330	24	6.7	31.1
13-Jun-89	Fairmount Island	1330	26	6.5	31.3
13-Jun-89	Fairmount Island	1330	28	6.4	31.3
13-Jun-89	Fairmount Island	1330	30	6.3	31.4
			Mean	7.5	29.8
			SD	0.8	1.7
			n	16	16

Appendix D. Temperature and salinity profiles in Prince William Sound, 1989.

Date	Site	Time	Depth (m)	Temp (°C)	Salinity (ppt)
20-Jun-89	Tatitlek Narrows	1945	0	12.2	25.9
20-Jun-89	Tatitlek Narrows	1945	2	12.4	27.4
20-Jun-89	Tatitlek Narrows	1945	4	10.6	28.7
20-Jun-89	Tatitlek Narrows	1945	6	8.3	29.2
20-Jun-89	Tatitlek Narrows	1945	8	8.6	29.8
20-Jun-89	Tatitlek Narrows	1945	10	8.7	29.8
20-Jun-89	Tatitlek Narrows	1945	12	8.8	30.1
20-Jun-89	Tatitlek Narrows	1945	14	8.5	30.3
20-Jun-89	Tatitlek Narrows	1945	16	8.3	30.5
20-Jun-89	Tatitlek Narrows	1945	18	8.1	30.7
20-Jun-89	Tatitlek Narrows	1945	20	7.8	30.8
20-Jun-89	Tatitlek Narrows	1945	22	7.7	31.0
20-Jun-89	Tatitlek Narrows	1945	24	7.5	31.1
20-Jun-89	Tatitlek Narrows	1945	26	7.4	31.2
20-Jun-89	Tatitlek Narrows	1945	28	7.2	31.3
20-Jun-89	Tatitlek Narrows	1945	30	7.1	31.4
			Mean	8.7	29.9
			SD	1.6	1.5
			n	16	16
21-Jun-89	Rocky Bay	1555	0	10.1	30.8
21-Jun-89	Rocky Bay	1555	2	10.1	30.8
21-Jun-89	Rocky Bay	1555	4	10.0	30.8
21-Jun-89	Rocky Bay	1555	6	9.7	30.9
21-Jun-89	Rocky Bay	1555	8	9.6	31.0
21-Jun-89	Rocky Bay	1555	10	9.4	31.1
21-Jun-89	Rocky Bay	1555	12	8.8	31.3
21-Jun-89	Rocky Bay	1555	14	8.5	31.4
21-Jun-89	Rocky Bay	1555	16	8.4	31.4
21-Jun-89	Rocky Bay	1555	18	8.4	31.4
21-Jun-89	Rocky Bay	1555	20	8.1	31.5
21-Jun-89	Rocky Bay	1555	22	7.4	31.8
21-Jun-89	Rocky Bay	1555	24	7.2	31.8
21-Jun-89	Rocky Bay	1555	26	7.1	32.4
21-Jun-89	Rocky Bay	1555	28	7.0	31.8
21-Jun-89	Rocky Bay	1555	30	7.0	31.8
			Mean	8.6	31.4
			SD	1.2	0.4
			n	16	16

Appendix D. Temperature and salinity profiles in Prince William Sound, 1989.

Date	Site	Time	Depth (m)	Temp (°C)	Salinity (ppt)
21-Jun-89	Bass Harbour	1055	0	10.7	29.7
21-Jun-89	Bass Harbour	1055	2	10.6	29.8
21-Jun-89	Bass Harbour	1055	4	10.3	30.0
21-Jun-89	Bass Harbour	1055	6	10.0	30.2
21-Jun-89	Bass Harbour	1055	8	9.8	30.4
21-Jun-89	Bass Harbour	1055	10	9.6	30.4
21-Jun-89	Bass Harbour	1055	12	9.5	30.4
21-Jun-89	Bass Harbour	1055	14	9.3	30.5
21-Jun-89	Bass Harbour	1055	16	9.3	30.5
21-Jun-89	Bass Harbour	1055	18	9.2	30.6
21-Jun-89	Bass Harbour	1055	20	9.0	30.6
21-Jun-89	Bass Harbour	1055	22	8.9	30.7
21-Jun-89	Bass Harbour	1055	24	8.2	31.1
21-Jun-89	Bass Harbour	1055	26	7.6	31.3
21-Jun-89	Bass Harbour	1055	28	7.4	31.4
21-Jun-89	Bass Harbour	1055	30	7.2	31.5
			Mean	9.2	30.6
			SD	1.1	0.5
			n	16	16
22-Jun-89	Fairmount Island	1109	0	10.7	24.9
22-Jun-89	Fairmount Island	1109	2	10.7	25.4
22-Jun-89	Fairmount Island	1109	4	10.4	26.3
22-Jun-89	Fairmount Island	1109	6	8.7	27.6
22-Jun-89	Fairmount Island	1109	8	9.3	29.1
22-Jun-89	Fairmount Island	1109	10	9.0	30.0
22-Jun-89	Fairmount Island	1109	12	8.8	29.9
22-Jun-89	Fairmount Island	1109	14	8.6	30.2
22-Jun-89	Fairmount Island	1109	16	8.3	30.5
22-Jun-89	Fairmount Island	1109	18	8.1	30.7
22-Jun-89	Fairmount Island	1109	20	7.9	31.0
22-Jun-89	Fairmount Island	1109	22	7.7	31.1
22-Jun-89	Fairmount Island	1109	24	7.5	31.2
22-Jun-89	Fairmount Island	1109	26	7.2	31.5
22-Jun-89	Fairmount Island	1109	28	7.0	31.5
22-Jun-89	Fairmount Island	1109	30	6.9	31.6
			Mean	8.6	29.5
			SD	1.2	2.2
			n	16	16

Appendix D. Temperature and salinity profiles in Prince William Sound, 1989.

Date	Site	Time	Depth (m)	Temp (°C)	Salinity (ppt)

Notes:

1. Data measured with a Hydrolab conductivity-temperature-depth meter.
2. Dashes indicate data not available due to contact with bottom or very rough surface waters.

APPENDIX E

Densities of Micro- and Macrozooplankton from Prince William Sound, 1989.

Taxonomic Notes

Neocalanus flemingeri is a newly described species from the subarctic Pacific Ocean and has not been given a NODC code number. Miller (1988) discusses the confusion in the taxonomy of N. flemingeri and N. plumchrus as well as life history and growth rates. Several specimens were sent to Miller and confirmed as N. flemingeri.

The taxonomy of the genus Pseudocalanus is currently being revised by B. W. Frost, so I prefer to stay at the genus level with this group. According to Frost, there are four species coexisting in the Gulf of Alaska: P. minutus, P. moultoni, P. newmani, and P. mimus. According to identifications shown in Frost (1989), P. mimus dominated the samples with P. minutus appearing in the occasional sample.

Acartia tumida is a neritic species found in freshened creeks and bays, whereas A. longiremis is found widespread in North Pacific surface waters. Previous to this study, the genus was lumped.

The jellies (ctenophores, medusa and siphonophores) did not transport well, and are not well represented in the counts due to difficulties in enumerating comb plates, jelly pieces and tentacles. The number m^{-3} for jellies is probably higher than what is shown in the appendix.

References

Frost, B. W. 1989. Taxonomy of the marine calanoid copepod genus Pseudocalanus. Can. J. Zool. 67:525-551.

Miller, C. B. 1988. Neocalanus flemingeri, a new species of Calanidae (Copepoda, Calanoida) from the subarctic Pacific Ocean, complete with a comparative redescription of Neocalanus plumchrus (Marukawa 1921). Prog. Oceanogr. 20:223-273.

Moira Galbraith
Sy-Tech Research Ltd.
2035 Mills Road
Sidney, B. C., Canada
V8L 3s1

tel. **(604) 656-0404**

Appendix E. Densities of micro- and macrozooplankton.

SAMPLE NUMBER					5		12		19		26		33		40		47
Date					2-May		2-May		3-May		3-May		n-May		12-May		12-May
Site					TAT		FAIR		BASS		RCCK		TAT		FAIR		BASS
Time					1030		1930		1030		1908		1930		2017		1550
Mesh (urn)					120		120		120		120		165		165		16S
Depth (m)					30		30		30		30		30		30		30
Volume filtered (m3)					13.564		10.353		9.839		16.877		9.027		17.981		25.094
Fraction enumerated					0.00195		0.00391		0.00391		0.00391		0,00391		0.00098		0.00391
SPECIES	TAXONOMIC STAGE	CODE	LENGTH mm MIN	LENGTH mm MAX	WIDTH mm MAX	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN
PROTOZOA																		
Foraminifera		3446	0.1	0.2	0.1		0.00		0.00		0.00		0.00		0,00		0,00	
CNIDARIA																		
Medusa Juvenile		3730	0.1	0.3	0.3	1	37.61		0.00		0.00		0.00		0.00		0.00	
Aglantha		37110411	1.0	3.0	1.5		0.00		0.00		0.00		0.00		0.00		0.00	
			5.0	7.0	3.s		0.00		0.00	1	25.99		0.00		0.00		0.00	
Phialidium		37040104	6.0	6.0	4.0		0.00		0.00		0.00		0.00		0.00		0.00	
Dimophyes		37160105	6.S	6.5	1.5		0.00		0.00		0.00		0.00		0.00		0.00	
Rathkea		37031902	3.0	3.0	2.5	1	37.61		0.00	1	25.99		0.00		0.00	1	56.75	
TREMATODA																		
Flatworms		3901	0.8	0.8	0.2		0.00		0.00		0.00		0.00		0.00		0.00	
CHAETOGNATHA																		
Sagitta elegans		8300000303	10.0	17.0	0.5		0.00		0.00		0,00		0.00		0.00		0.00	
Chaetognath juveniles		83	3.0	7.0	0.4	1	37.61	1	24.70		0.00	2	30.31	1	28.33	1	56.75	3
BRYOZOA																		
Cyphonautes larvae		78	0.4	0.8	0.1	6	226.64	17	419.96	1	2S.99	3	45.46	10	283.32	11	624.24	6
PHORONIDA																		
Actinotrocha larvae		77	0.6	1.0	0.2		0.00		0.00		0.00	1	15.1s		0.00		0.00	
MOLLUSCA																		
Limacina		51130101	0.6	2.0	0.6		0.00	4	96.61	1	25.99		0.00	10	263.32	1	56.75	2
Clione		51250601	12.0	12.0	5.5		0.00		0.00		0,00		0.00		0.00		0.00	
Bivalve veliger		55	0.2	0.4	0.1	5	189.04	4	96.61	1	25.99		0.00	10	203.32	3	170.25	2
Gastropod veliger		51	0.3	0.6	0.2	16	604.92	12	296.44	4	103.96	3	45,46	27	764.97	s	263.75	7
POLYCHAETA																		
Spionid larvae		500143	0.8	4,0	0.3	29	1096.42	4	98.61		0.00	3	45.46	14	396.65	1	56.75	7
Polynoid larvae		500102	0.6	1.5	0.6		0.00		0.00		0.00	1	1s.1s		0.00		0.00	
Trochophore larvae		5001	0.2	0.4	0.2		0.00		0.00	1	25.99	10	151.54		0.00	2	113.50	2
CRUSTACEA																		
CIRRIPEDIA																		
Nauplii larvae		6130	0.2	0.8	0.2	3	113,42	2	49.41		0.00	22	333.39		0.00	3	170.25	
Cypris larvae		6130	0.8	1.2	0.4	5	169.04		0.00	2	51.99	1	15.1s	36	1019.96	1	56.75	1
CLADOCERA																		
Evadne		61090501	1.0	1.2	0.5		0.00		0.00		0.00		0.00		0.00	2	113,50	
Podon leuckartii		6109050102	0.6	1.0	0.6	1	37.61		0.00		0,00		0.00		0.00		0.00	

Appendix E. Densities of micro- and macrozooplankton.

	VIf		2.0	2.1	0.6	1	37.81	1	24.70		0.00	2	30.31		0.00	1	56.75		
	VIm		1.7	1.8	0.5	3	113.42		0.00		0,00	1	15.15		0.00		0.00		
Harpacticoida	V	6119	0.6	0.8	0.2		0.00		0.00		0.00		0,00		0.00		0.00		
	VIf		0.7	1.0	0.3		0.00		0,00		0.00		0.00		0.00		0.00		
Oithona sp	1-IV	61200901	0.4	0.7	0.2		0.00	12	296,44	25	649.85	20	303.08		0.00		0.00		
Oithona atlantica	v	6120090123	0.8	1.0	0.2		0.00		0.00	1	25.99	3	45.46		0.00	2	113.50		
	VIf		1.2	1.4	0.3		0.00		0.00	2	51.99	1	15.15		0.00	1	56.75		
Oithona similis	v	6120090103	0.6	0.8	0.2	1	37.81	8	197.63	20	519.66	30	454.62	5	141.66	2	113.50	51	
	VIf		0.7	1.0	0.2	43	1625.72	19	469.36	49	1273.70	28	424.31	31	078.30	12	680.99	37	
	VIm		0.5	0.7	0.2	1	37.61	1	24.70	4	103.98	1	15.15	1	28.33		0s20	3	
Oncaea sp	V	61200103	0.5	0.7	0.2		0.00		0.00		0.00		0.00		0.00		0.00		
Oncaea borealis	VIf	6120010301	0.6	0.7	0.2		0,00		0.00		0.00	4	60.62	1	28.33		0.00		
	VIm		0.3	0.4	0.1		0.00	2	49.41		0.00	2	30.31		0.00		000		
AMPHIPODA																			
Parathemisto libellula		6170011002	8.0	8.0	2.0		0.00		0.00		0.00		0.00		0.00		0.00		
Cyphocaris sp		61693411	9.0	9.0	2.0		0,00		0.00		0.00		0.00		0.00		0.00		
Hyperoche sp		61700107	7.5	7.5	1.7		0.00		0.00		0.00		0.00		0.00		0.00		
Hyperiid Juveniles		6170	1.5	2.0	0.0		0.00	1	24.70		0.00		0.00		0.00		0.00		
EUPHAUSIACEA																			
Thysanoe sa sp		61740209	5.5	8.0	2.5		0.00		0.00		0.00		0.00		0.00		0.00		
Euphausiid nauplii		6174	0.5	0.6	0.4	3	113.42		0.00		0,00	3	45.46		0.00	3	170.25		
Euphausiid protozoea		6174	1.0	2.5	0.6	8	302.46	2	49.41		0.00	7	106.08	2	56.66	1	56.75		
Euphausiid zoea		6174	2.5	5.0	1.2	3	113.42	2	49,41		0.00	9	136.39	1	28.33	1	56.75	6	
Euphausiid Juveniles		6174	4.5	6.0	1.5		0.00	1	24.70	2	51.99		0.00		0.00	4	227,00	4	
DECAPODA																			
Caridea mysis		6179	2.5	7.0	1.0	1	37.81		0.00		0.00	2	30.31	2	56.66	1	56.75	1	
Crangon mysis		617922	3,0	3.0	0.8		0.00	1	24.70		0.00		0.00		0.00		0.00		
Pandalus sp		617918	11.0	25.0	3.2		0.00	1	24.70		0.00	1	15.15		0.00		0.00		
Brachyuran zoea		6184	1.5	2.0	0.6		0.00		0.00		0.00		0.00		0.00	1	56.75	1	
Paguridzoea		61830602	1.5	6.0	1.2		0.00	1	24.70		0.00	1	15.15		0.00		0.00		
ECHINODERMATA																			
Bipinnaria larvae		81	0.6	0.7	0.4		0.00		0.00		0.00		0.00		0.00		0.00		
Echinopluteus larvae		61	0.6	1.5	1.0		0.00		0.00		0.00		0.00		0.00	1	56.75		
Asteroid larvae		8104	0.6	0.6	0.6		0.00		0.00		0.00		0.00		0.00		0.00		
TUNICATA																			
Oikopleura a laboradoriensis		8413010102	1.5	10.0	0.8	2	75.61	5	123.52	2	51,99	8	121.23	2	56.66		0.00	1	
Fritillaria		041302	1.5	2.0	0.5	1	37.81	1	24.70		0.00		0.00		0.00	1	56.75		
VERTABRATA																			
Fish eggs		8735	3.0	3.0	3.0		0.00		0.00		0.00		0.00		0.00		0.00		
Fish larvae		8765	7.0	10.0	1.5		0.00		0.00		0.00	1	15.15		0.00		0.00		
Herring larvae		874701	6.0	9.0	1.0	4	151.23		0.00		0.00		0.00	4	113.33	26	1475,48	16	
MISCELLANEOUS																			
Small eggs			0.3	0.4	0.4		0.00		0.00		0.00		0.00		0.00	3	170.25		
TOTAL FOR SAMPLE						297	11228.82	446	11017.72	241	6264.54	393	5955.53	517	14647.73	218	12371.34	354	

Appendix E. Densities of micro- and macrozooplankton.

SAMPLE NUMBER	54		61		68		75		82		89		96	
Date	12-May		20-May		21-May		21-May		21-May		30-May		30-May	
Site	ROCK		TAT		ROCK		BASS		FAIR		TAT		ROCK	
Time	1105		1815		1105		1600		2037		1632		945	
Mesh (urn)	165		165		165		165		165		165		165	
Depth (m)	30		30		30		30		30		30		30	
Volume filtered (m^3)	9.678		46.082		22.443		24.755		38.854		26.964		22.763	
Fraction enumerated	0.00391		0.00195		0.01563		0.00195		0.00195		0.00391		0,00701	
SPECIES	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO 'PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3
PROTOZOA															
Foraminifera	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
CNIDARIA															
Medusa juvenile	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Aglantha	0.00		0.00		0.00	3	8.55		0.00		0.00	2	18.97	1	5.62
	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Phialidium	0.00		0.00		0.00		0.00		0.00		0,00		0.00		0.00
Dimophyes	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0,00
Rathkea	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
TREMATOOA															
Flatworms	0.00		0.00		0.00	1	2.65		0.00		0.00		0.00		0.00
CHAETOGNATHA															
Sagitta elegans	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Chaetognath juveniles	30.58	3	79.28	1	11.13	4	11.40	1	20.72	2	26.40	3	28.46	5	28.10
BRYOZOA															
Cyphonautes larvae	81.53	6	158.56	4	44,51	14	39.91	1	20.72	13	171.58	3	28.46		0.00
PHORONIDA															
Actinotrocha larvae	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
MOLLUSCA															
Limacina	20.38		0.00	3	33.39	3	6,55		0.00	2	26.40	1	9,49	7	39,34
Clione	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Bivalve veliger	20.38	3	79.28	2	22.26	14	39.91	8	165.73	2	26.40	4	37.94	7	39.34
Gastropod veliger	71.34	6	158.56	4	44.51	52	146.24	28	580.04	7	92.39	5	47.43	26	146.12
POLYCHAETA															
Spionid larvae	71.34		0.00		0.00		0.00	1	20.72		0.00		0.00		0.00
Polynoid larvae	0.00		0.00		0.00		0.00	1	20.72		0.00		0.00		0.00
Trochophore larvae	20.38		0.00		0.00	2	5.70	2	41.43	1	13.20		0.00		0.00
CRUSTACEA															
CIRRIPEDIA															
Nauplii larvae	0.00	1	26.43		0.00	10	28.51		0.00		0.00	8	75.68	8	44.96
Cypris larvae	10.19	6	158.58	3	33.39	5	14.25	2	41.43		0.00	2	18.97		0.00
CLADOCERA															
Evadne	0.00		0.00		0.00		0,00		0.00		0.00	5	47.43		0.00
Podon leuckartii	0.00		0,00		0.00		0.00		0.00	1	13.20	1	9.49	2	11.24

Appendix E. Densities of micro- and macrozooplankton.

COPEPODA															
Copepod nauplii	40.77		0.00	1	11.13		0.00		0.00		0.00	2	16.97	12	67.44
	10.19		0.00		0.00	3	8.55	1	20.72	1	13.20		0.00		0.00
Copepodites	0.00		0.00	3	33.39		0.00		0.00		0.00		0.00		0.00
	203.84		0.00		0.00	13	37.06		0.00	2	26.40	18	170.73	83	466.46
	183.45	5	132.13		0.00	31	86.37	46	952,93	16	211.18	8	75.88	24	134.88
Calanus 5P	0.00		0.00		0.00	1	2.65		0.00		0.00		0.00		0.00
	20.38	2	52.85		0.00	1	2.85		0.00	1	13.20		0.00		0.00
	20.38	10	264.26	2	22.26	5	14,25	3	62.15	2	26.40		0.00		0.00
Calanus marshallae	10.19	14	369.97	4	44.51	1	2.85		0.00	12	158.38		0.00		0.00
	0.00		0.00	10	111.26		0.00		0.00	21	277.17		0.00		0.00
	10.19		0.00		0.00		0.00	1	20.72		0.00	1	9.49		0.00
	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus SP	0.00		0.00	1	11.13		0.00		0.00		0.00		0.00		0.00
Neocalanus cristatus	0.00		0.00	1	11.13		0.00		0.00		0.00		0.00		0.00
Neocalanus flemingeri	30.58	1	26.43	6	66.77	1	2.85	3	62.15	5	65.99	1	9.49		0.00
Neocalanus plumchrus	40.77		0.00	5	55.64		0.00		0.00	1	13.20	1	9.49	1	5.62
Eucalanus	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	10,19	1	26.43		0.00	2	5.70		0.00		0.00		0.00		0.00
	0.00		0.00	1	11.13	1	2.85	2	41.43		0.00		0.00		0.00
Eucalanus bungii	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	0.00		0.00		0.00		0.00		0.00		0.00		0.00	1	5.62
	0.00		0.00		0.00		0.00		0.00	1	13.20		0.00		0.00
Paracalanus parvus	20.38		0.00		0.00		0.00		0.00		0,00		0.00		0s30
	10.19		0.00		0.00	1	2.85		0.00		0.00		0.00		0.00
Pseudocalanus sp. complex	183.45	10	264.26	11	122.41	17	46.46	19	372.89	24	316.77	2	18.97	16	101.16
	295.56	53	1400.60	25	278.21	33	94.07	28	560.04	68	897.51	6	56.91	19	106.70
	264.99	80	2114.11	34	378.37	50	142.54	32	662.91	102	1346.26	20	189.70	21	118.02
	193.65	14	369.97	30	333.65	4	11.40	23	476.46	56	739.12	8	75.86	17	95.54
	112.11	7	164.90	16	178.05	7	19,96	9	166.44	22	290.37	13	123.31	8	44.96
Microcalanus pygmeus pusillus	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	10.19		0.00		0.00		0.00		0.00		0.00		0,00		0.00
Eucheata SP	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Metridia sp	20.36	3	79.28		0.00	2	5.70		0.00		0.00		0.00		0.00
Metridia pacifica	40.77		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	10,19		0.00	1	11.13		0.00		0.00		0.00		0.00		0s30
	71.34	2	52,85		0.00		0.00		0.00		0.00		0.00	1	5.62
	10.19		0.00		0.00		0.00		0.00		0.00		0,00		0.00
Centropages abdominalis	0.00		0.00	1	11.13		0,00		0.00		0.00		0.00		0.00
	0.00	3	79.26		0.00		0.00		0.00		0.00		0.00	2	11.24
	0.00		0.00	1	11.13		0.00		0.00		0.00	1	9.49	1	5.62
	0.00	1	26.43		0.00		0.00		0,00		0.00	1	9.49		0.00
Acartia sp	50.96	6	156.56	4	44.51	6	17.10	11	227.87	4	52.79	26	265.58		0.00
Acartia longiremis	10.19	3	79.28	11	122.41	11	31.36	2	41.43	9	116,79	49	464,77	8	44.96
	30.58	21	554.95	8	89.03	12	34.21	3	62,15	7	92.39	19	100.22	2	11.24
	122.30	24	634.23	5	55.64	31	86.37	8	165.73	8	105.59	30	284.55	3	16.86
Acartia tumida	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00

Appendix E. Densities of micro- and macrozooplankton.

	0.60	2	52.85	1	11.13		0.00		0.00		0.00		0.00		0.00
	0.00		0.00		0.00		0,00		0.00		0.00		0.00		0.00
Harpacticoida	0.00		0.00		0.00	3	8.55	1	20,72		0.00	1	9.49		0.00
	0.00		0.00		0.00		0.00		0.00		0.00	1	9.49		0.00
Oithona sp	0.00	2	52.85		0.00	3	8.55	4	82.86		0.00	16	170.73	19	106.78
Oithona atlantica	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	0.00		0.00		0,00		0.00		0.00		0.00		0.00		0.00
Oithona similis	519,78	8	211.41	4	44.51	46	131.13	13	269.31	20	263.97	34	322.49	39	219.16
	377.10	41	1083.4El	16	178.05	134	362.00	46	952.93	43	567.54	34	322.49	106	606.96
	30.58	1	26.43	1	11.13	10	28.51	2	41.43	2	26.40	3	28.46	5	26.10
Oncaea sp	0.00		0,00		0.00		0.00		0.00		0.00		0.00		0.00
Oncaea borealis	0.00		0.00		0.00	1	2.85		0.00		0.00		0.00		0.00
	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
AMPHIPODA															
Parathemisto libellula	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Cyphocaris sp	0.00		0.00		0.00		0.00		0.00	1	13.20		0.00		0.00
Hyperoche sp	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Hyperiid Juveniles	0.00		0.00		0.00		0.00		0.00		0.00	1	9.49		0.00
EUPHAUSIACEA															
Thysanoe sa sp	0.00		0.00	4	44.51		0.00		0.00	9	116.79		0.00		0.00
Euphausiid nauplii	0.00		0.00		0.00		0.00		0.00		0.00		0.00	1	5.62
Euphausiid protozoea	0.00	3	79.28		0.00	1	2.85	2	41,43	1	13.20		0.00		0.00
Euphausiid zoea	61.15	8	211.41	7	77.90	1	2.85	8	165,73		0.00		0,00	1	5.62
Euphausiid Juveniles	40.77		0,00		0.00		0.00		0.00	18	237.56		0.00		0.00
DECAPODA															
Caridea mysis	10.19		0.00	4	44.51		0,00	1	20.72	1	13.20	1	9.49		0.00
Crangon mysis	0.00		0.00		0.00		0.00		0.00		0>00	1	9.49		0.00
Pandalus sp	0.00		0.00		0.00	1	2.85		0.00	1	13.20	1	9,49		0.00
Brachyuran zoea	10.19	1	26.43		0.00		0.00		0.00		0.00	1	9.49		0.00
Pagurid zoea	0.00	1	26.43	1	11.13	1	2.85	1	20.72		0.00	2	18.97	1	5.62
ECHINODERMATA															
Bipinnaria larvae	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Echinopluteus larvae	0.00		0.00		0.00	1	2.85		0.00		0.00		0.00		0.00
Asteroid larvae	0.00		0.00		0.00		0.00	1	20.72		0.00		0.00		0.00
TUNICATA															
Oikopleura a laboradoriensis	10.19	2	52.85	1	11.13		0.00		0.00	7	92.39	4	37.94	9	50.56
Fritillaria	0.00		0.00		0.00	2	5.70		0.00	1	13.20		0.00	3	16.86
VERTABRATA															
Fish eggs	0.00		0.00		0.00		0.00		0.00	1	13.20		0.00		0.00
Fish larvae	0.00		0.00	1	11.13		0.00		0.00		0.00		0.00		0.00
Herring larvae	183,45	13	343.54		0.00		0.00		0.00	4	S2.79	1	9.49		0.00
MISCELLANEOUS															
Small eggs	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
TOTAL FOR SAMPLE	3607.92	367	9698.48	238	2646.57	545	1553.66	313	6464.06	499	6566.13	345	3272.34	463	2602.07

Appendix E. Densities of micro- and macrozooplankton.

SAMPLE NUMBER						103		110		117		124		131		138	
Date						29-May		29-May		6-Jun		8-Jun		7-Jun		7-Jun	
Site						BASS		FAIR		FAIR		BASS		ROCK		TAT	
Time						1755		1400		1320		840		1930		835	
Mesh (urn)						165		165		165		165		165		165	
Depth (m)						30		30		30		30		30		30	
Volume filtered (m^3)						14.451		29.256		28.628		33.02		14.099		16.655	
Fraction enumerated						0.00391		0.00195		0,00391		0.00195		0.00195		0.00391	
SPECIES	STAGE	TAXONOMIC CODE	LENGTH mm MIN	LENGTH mm MAX	WIDTH mm MAX	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3
PROTOZOA																	
Foraminifera		3446	0,1	0.2	0.1		0.00		0.00		0.00		0.00		0.00	1	15.36
CNIDARIA																	
Medusa juvenile		3730	0.1	0.3	0.3		0.00		0.00	1	8.93		0.00		0.00	1	15.36
Aglantha		37110411	1.0	3.0	1.5	1	17.70		0.00	4	35.73		0.00	2	72,75		0,00
			5.0	7.0	3.5		0.00		0.00	1	8.93		0.00		0.00	1	15.36
Phialidium		37040104	6.0	6.0	4.0		0.00		0.00		0.00	1	15.53		0.00		0.00
Dimophyes		37160105	6.5	6,5	1.5		0.00		0.00		0.00	1	15.53		0.00		0.00
Rathkea		37031902	3.0	3.0	2.5		0.00		0.00		0.00		0.00		0.00		0.00
TREMATODA																	
Flatworms		3901	0.8	0.6	0.2		0.00		0.00		0.00		0.00		0.00		0.00
CHAETOGNATHA																	
Sagitta elegans		8300000303	10.0	17,0	0.5	2	35.40		0.00	1	8.93		0.00		0.00		0.00
Chaetognath Juveniles		83	3.0	7.0	0.4	4	70.79	2	35.06	2	17.87	1	15.53	2	72.75	1	15.36
BRYOZOA																	
Cyphonautes larvae		78	0.4	0.8	0.1	16	263.17	9	157,76	3	26.80		0.00	1	36.37	2	30.71
PHORONIDA																	
Actinotrocha larvae		77	0.8	1,0	0.2		0.00		0.00		0.00		0.00		0.00		0.00
MOLLUSCA																	
Limacina		51130101	0.6	2.0	0.6	4	70.79		0,00	4	35.73	6	93.18	15	545.59	4	61.42
Clione		51250601	12.0	12.0	5.5	1	17.70		0.00	1	8,93		0.00		0.00		0.00
Bivalve veliger		55	0.2	0.4	0.1	4	70.79	4	70.11	9	80.40	1	15.53	9	327.36	3	46.07
Gastropod veliger		51	0.3	0.6	0.2	13	230.07	8	140.23	20	178.67	18	279.55	237	8620.36	42	644.95
POLYCHAETA																	
Spionid larvae		500143	0.8	4.0	0.3		0.00		0.00		0.00		0.00	1	36.37		0.00
Polynoid larvae		500102	0.6	1.5	0.6		0.00		0.00		0.00		0.00		0.00		0,00
Trochophore larvae		5001	0.2	0.4	0.2		0.00		0.00		0.00		0.00	1	36.37		0.00
CRUSTACEA																	
CIRRIPEDIA																	
Nauplii larvae		6130	0.2	0.8	0.2	1	17.70	2	35.06	3	26.80	1	15.53	8	290.98	2	30.71
Cypris larvae		6130	0.8	1.2	0.4	1	17.70	1	17.53	1	8.93		0.00	1	36.37	1	15.36
CLADOCERA																	
Evadne		61090501	1.0	1.2	0.5		0.00		0.00	1	8.93		0.00		0,00		0.00
Podon		6109050102	0,6	1.0	0.6		0.00		0.00	1	8.93		0.00		0.00	1	15.36

Appendix E. Densities of micro- and macrozooplankton.

COPEPODA																	
Copepod nauplii		6118	0.4	0.6	0.2		0.00	2	35.06	3	26.60	5	77.65	16	581.97	4	61.42
			0.6	0.8	0.3		0.00		0.00	1	&93		0.00	1	36.37	1	15.36
Copepodites	I-III	6116	0,4	0.6	0.3		0.00		0.00		0.00		0.00		0.00		0.00
			0.6	0.8	0.4	64	1132.68	11	192.62	16	142.94	32	496.98		0.00	40	614.24
			0.8	1.0	0.4	4	70.79	7	122.70	22	196.54	31	481.45	19	691.06	41	629.60
Calanus sp	I	61160102	0.5	1.1	0.3		0.00		0.00		0.00		0.00		0.00		0.00
	II		1.2	1.5	0.4		0.00		0.00		0.00		0.00		0.00		0.00
	III		1.5	2.4	0.6		0,00		0.00		0.00		0.00	1	36,37		0.00
Calanus marshallae	Iv	6118010204	2.3	2.6	0.6	1	17.70		0.00		0.00		0.00		0.00		0.00
	v		2.8	3.8	0.8	3	53.09	1	17.53	1	8.93	1	15.53		0.00	1	15.36
	VIf		3.7	4,2	1.1		0.00		0.00	2	17.67	1	15.53		0.00		0.00
	VIm		3.5	4.0	1.0		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus sp	w	61180104	3.1	4.4	1.1		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus cristatus	v	6118010201	7.1	8.9	2.2	1	17,70		0.00		0.00		0.00		0.00		0.00
Neocalanus flemingeri	v		4.1	5.2	1.4		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus plumchrus	v	6118010206	4.1	5.2	1.4	1	17.70	1	17.53		0.00		0.00		0.00		0.00
Eucalanus	I	61160301	1.3	1,6	0.3		0.00		0.00		0.00		0.00		0.00		0.00
	II		1.6	2.0	0.4	1	17.70		0.00		0.00		0.00		0.00		0.00
	III		2.9	3.0	0.5		0.00		0.00		0.00	1	15.53		0.00	1	15.36
Eucalanus bungii	w	6118030102	3.4	3.8	0.7		0.00	1	17.53	1	8.93		0.00	2	72.75		0.00
	w		4.9	5.2	1.1		0.00		0.00		0.00		0.00		0.00		0.00
	Vm		4.5	4.0	1.0	1	17.70		0.00		0.00		0.00		0.00		0,00
Paracalanus parvus	v	6118040101	0.7	1.1	0.2		0,00		0.00		0.00		0.00		0.00		0.00
	VIf		0.8	1,2	1.3		0.00		0.00		0.00		0.00		0.00		0.00
Pseudocalanus sp. complex	Iv	61180505	0.9	1.1	0.3	6	141.58	10	175.29	3	26.80	16	248.49	5	181.86	9	138.20
	Vf		1.1	1,3	0.4	13	230.07	17	297.99	6	53.60	22	341.67	5	181.86	10	153.56
	Vm		1.0	1.3	0.4	20	353.96	26	490.80	9	60.40	17	264.02	7	254.61	14	214.96
	VIf		1.1	2,0	0.5	33	584.04	16	280.46	6	71.47	9	139.78	1	36.37	11	166.92
	VIm		1.1	1.5	0.4	9	159.26	10	175.29		0.00	5	77.65	1	36.37	3	46.07
Microcalanus pygmeus pusillus	v	61180504	0.6	0.7	0.2		0.00		0.00		0.00		0.00		0.00		0,00
	w		0.7	0.9	0.3		0.00		0.00		0.00		0.00		0.00		0.00
Eucheata sp	Iv	61180801	3.3	4.2	1.2		0.00		0.00		0.00		0.00		0.00		0.00
Metridia sp	I-III	61161602	0.5	1.1	0.2		0.00		0.00		0.00	1	15.53		0.00		0.00
Metridia pacifica	Iv	6118160214	1.1	1.3	0.3	4	70.79		0.00		0.00		0.00		0.00		0.00
	w		1.6	2.1	0.5	4	70.79		0.00		0.00		0.00		0.00		0.00
	Vm		1.5	1.6	0.5	19	336.26		0.00		0.00	1	15.53		0.00		0.00
	Vif		2.5	2.9	0.7	2	35.40	1	17.53		0.00		0.00		0.00		0.00
Centropages abdominalis	Iv	6118170101	0.9	1.1	0.3		0.00		0.00	1	8.93		0.00		0.00	1	15.36
	v		1.1	1.3	0.4		0.00	1	17.53	1	0.93		0.00		0.00		0.00
	VIf		1.6	2.1	0.7		0.00		0.00		0.00		0.00		0.00	1	15.36
	VIm		1.4	1.5	0.4		0.00		0.00		0.00		0.00		0.00	1	15.36
Acartia sp	I-IV	61182901	0.5	0.7	0,2	6	106.19	10	175.29	9	60.40	16	246.49	15	545.59	2	30.71
Acartia longiremis	v	6116290103	0,7	1.0	0.3	5	88.49	11	192.62	8	71.47	3	46,59	6	216.24	10	153.56
	VIf		1.0	1.3	0.3	3	53.09	56	961.61	25	223.34	0	124.24	10	363.73	10	153.56
	VIm		0.9	1.1	0.3	1	17.70	59	1034.20	19	169.74	8	124.24	18	654.71	27	414.61
Acartia tumida	v	6118290105	1.5	1.8	0.4		0.00		0.00		0.00		0.00		0.00		0.00

Appendix E. Densities of micro- and macrozooplankton.

	VIf		2.0	2.1	0.6		0.00		0.00		0.00		0.00		0.00		0.00
	VIm		1.7	1.8	0.5		0.00		0.00		0.00		0.00		0.00		0.00
Harpacticoida	v	6119	0.6	0.8	0.2		0.00	2	35.06	1	8.93		0.00		0.00		0.00
	VIf		0.7	1.0	0.3		0,00		0.00		0.00		0.00		0.00		0.00
Oithona sp	I-IV	61200901	0.4	0.7	0.2	3	53.09	9	157.76		0.00	4	62.12	6	218.24		0.00
Oithona atlantica	v	6120090123	0.6	1.0	0.2		0.00		0.00		0,00		0.00		0.00		0.00
	VIf		1.2	1.4	0.3	2	35.40		0.00		0.00		0,00	1	36.37		0.00
Oithona similis	v	6120090103	0.6	0.8	0.2	62	1097.28	32	560.92	21	187.61	25	388.27	33	1200.30	3	46,07
	VIf		0.7	1.0	0.2	13	230,07	41	718.66	48	428.62	28	434.86	73	2655.22	99	1520.25
	VIm		0.5	0.7	0.2	1	17.70	2	35.06	2	17.87	4	62.12	3	109.12	3	46.07
Oncaea sp	v	61200103	0.5	0.7	0.2		0.00		0.00		0.00		0.00		0.00		0.00
Oncaea borealis	VIf	6120010301	0.6	0.7	0.2		0.00		0.00		0.00		0.00		0.00		0.00
	VIm		0.3	0.4	0.1		0.00		0.00		0.00		0.00		0.00		0.00
AMPHIPODA																	
Parathemisto libellula		6170011002	6.0	&O	2.0		0.00		0.00		0.00		0.00	1	36.37		0.00
Cyphocaris sp		61693411	9,0	9,0	2.0		0.00		0.00		0.00		0,00		0.00		0,00
Hyperoche sp		61700107	7.5	7.5	1.7		0,00		0,00		0.00	1	15.53		0.00		0.00
Hypedid juveniles		6170	1.5	2.0	0.6		0.00		0.00		0.00		0.00		0.00		0.00
EUPHAUSIACEA																	
Thysanoe se sp		61740209	5.5	6.0	2.5		0.00	1	17.53	2	17.87		0.00		0.00		0.00
Euphaulid nauplii		6174	0.5	0.6	0.4		0.00		0.00		0.00		0.00		0.00		0.00
Euphaulid protozoea		6174	1.0	2.5	0.6		0.00		0.00		0,00		0.00	1	36.37		0.00
Euphaulid zoea		6174	2.5	5.0	1.2		0.00		0.00		0.00		0.00	1	36,37		0.00
Euphaulid juveniles		6174	4.5	6.0	1.5	1	17.70		0.00		0.00		0.00		0.00		0.00
DECAPODA																	
Caridea mysis		6179	2.5	7.0	1.8		0.00	2	3S.06		0.00		0.00		0.00	2	30.71
Crangon mysis		617922	3.0	3.0	0.6		0.00		0.00		0.00		0.00		0.00		0.00
Pandalus sp		617916	11.0	25.0	3.2		0.00		0.00		0.00		0.00		0.00		0.00
Brachyuran zoea		6164	1.5	2.0	0.8	2	35,40		0.00		0.00	1	15.53	1	36.37	1	15.36
Pagurid zoaa		61830602	1.5	6.0	1.2	1	17.70	2	35.06		0.00	1	15.53		0,00	2	30.71
ECHINODERMATA																	
Bipinnaria larvae		81	0.6	0.7	0.4		0.00		0,00		0.00		0.00		0.00		0.00
Echinopluteus larvae		al	0.6	1.5	1.0		0.00		0.00		0.00		0.00	8	290.98		0.00
Asterold larvae		8104	0.6	0.6	0.6		0.00		0.00		0.00		0.00		0.00		0.00
TUNICATA																	
Oikopleura a laboradoriensis		8413010102	1.5	10.0	0.6	1	17.70	16	260.46	2	17.87		0.00		0.00	3	46.07
Fritillaria		841302	1.5	2.0	0.5		0.00		0.00		0.00		0.00	4	145.49		0.00
VERTABRATA																	
Fish eggs		6735	3.0	3.0	3,0		0.00		0.00		0.00		0.00		0.00		0.00
Fish larvae		6765	7.0	10,0	1.5		0,00	1	17.53		0.00		0.00		0.00		0.00
Herring larvae		874701	6.0	9.0	1.0		0.00	2	35.06		0.00		0.00		0.00		0.00
MISCELLANEOUS																	
Small eggs			0.3	0.4	0.4		0.00		0,00		0,00		0.00		0.00		0,00
TOTAL FOR SAMPLE						336	5946.54	378	6625,66	263	2349,57	270	4193.26	516	18768,38	359	5512.81

Appendix E. Densities of micro- and macrozooplankton,

SAMPLE NUMBER	145		152		159		166		173		180		187		194	
Date	12-Jun		13-Jun		12-Jun		13-Jun		20-Jun		21-Jun		21-Jun		22-Jun	
Site	TAT		FAIR		FAIR		BASS		TAT		ROCK		BASS		FAIR	
Time	1330		1351		2121		900		2020		1625		1120		1133	
Mesh (um)	165		16S		165		165		165		165		165		165	
Depth (m)	30		30		30		30		30		30		30		30	
Volume filtered (m3)	26.974		21.354		14.548		17.361		8.758		9.195		8.664		9.628	
Fraction enumerated	0.00098		0.00391		0.00761		0.00781		0.00781		0,00391		0.00195		0.00195	
SPECIES	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3
PROTOZOA																
Foraminifera		0.00		0.00	3	26.40		0.00		0.00	1	27.81	4	236.76		0.00
CNIDARIA																
Medusa Juvenile		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Aglantha	2	75.66		0.00		0.00	1	7.38		0.00		0.00	1	59.19	2	106.53
		0.00	1	11.96	1	8.80	1	7.38		0.00		0.00		0.00		0.00
Phialidium		0.00		0.00	1	8.80		0.00		0.00		0.00		0.00		0.00
Dimophyes		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Rathkea		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
TREMATODA																
Flatworms		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
CHAETOGNATHA																
Sagitta elegans		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Chaetognath juveniles	1	37.83	1	11.96		0.00	1	7.38	1	14.62		0.00	1	59.19	1	53.26
BRYOZOA																
Cyphonautes larvae		0.00		0.00		0.00	3	22.13	1	14.62		0.00		0.00		0.00
PHORONIDA																
Actinotrocha larvae		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
MOLLUSCA																
Limacina	2	75.66	6	71.86	2	17.60	10	73.75		0.00	5	139.07	123	7280.35	50	2663.17
Clione		0.00		0.00		0.00		0.00		0.00		0.00	1	59,19	3	159.79
Bivalve veliger	5	189.15	9	107.79	1	8.80	4	29.50	14	204.68	3	83.44	2	118.38	8	426.11
Gastropod veliger	51	1929.30	88	1053.97	158	1390.60	14	103.25	438	6403.51	342	9512.58	20	1183.80	76	4048.02
POLYCHAETA																
Spionid larvae		0.00		0.00		0.00	2	14.75		0.00		0.00		0.00		0.00
Polynoid larvae		0.00		0.00	1	.9.80	1	7.38		0.00		0.00		0.00		0.00
Trochophore larvae		0.00		0.00		0.00	1	7.38		0.00		0.00		0.00		0.00
CRUSTACEA																
CIRRIPEDIA																
Nauplii larvae	6	226.98	1	11.98	2	17,60	2	14.75	6	116.96		0.00	3	177.57	2	106.53
Cypris larvae	2	75.66		0.00		0.00	1	7.30	2	29.24		0.00		0.00	2	106.53
CLADOCERA																
Evadne	2	75.66		0.00	2	17.60	1	7.38		0.00		0.00		0.00	3	159.79
Podon	2	75.66		0.00	1	8.80	1	7.38	2	29.24		0.00		0.00		0,00

Appendix E. Densities of micro- and macrozooplankton.

COPEPODA																
Copepod nauplii	1	37.83	11	131.75	36	316.85	21	154.88	4	58.48	8	222.52	10	591.90	2	106.53
	1	37,03		0.00	1	8/90		0.00		0.00	6	166.89	4	236.76		0.00
Copepodites		0.00		0,00		0.00		0.00		0,00		0.00		0.00	3	159.79
		0.00		0.00		0.00	23	169.63		0.00		0.00	35	2071.64	8	426.11
		0.00	19	227,56	43	376.45	14	103.25	57	833.33	25	695.36	15	887.85	11	565.90
Calanus sp		0.00		0,00		0.00		0.00		0.00		0.00		0.00		0.00
		0.00		0.00		0.00		0.00		0.00		0.00		0.00	1	53.26
		0.00		0.00		0.00	1	7.36		0.00		0.00		0.00		0.00
Calanus marshallae		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
		0.00		0.00		0.00		0,00		0.00		0.00		0.00		0.00
		0.00		0.00		0.00		0.00		0,00		0.00		0.00		0.00
		0.00		0,00		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus sp		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus cristatus		0.00		0,00		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus flemingeri		0.00		0,00		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus plumchrus		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Eucalanus		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
		0.00		0,00		0.00	1	7,38		0.00		0.00		0.00		0.00
Eucalanus bungii		0.00	1	11.98		0.00		0.00		0.00		0.00		0,00		0.00
		0.00	1	11.98		0.00	1	7.38		0.00		0.00		0.00		0.00
		0.00		0.00		0.00		0.00		0.00	1	27.81		0.00		0.00
Paracalanus parvus		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Pseudocalanus sp. complex	3	113,49	14	167.66	11	96.81	9	66.38	23	336.26	15	417.22	9	532.71	11	585.90
	3	113.49	23	275.47	9	79.21	11	81.13	13	190.06	15	417.22	15	887.85	6	319.58
	4	151.32	14	167.68	21	164.83	16	118.00	20	292.40	23	639.73	18	1085.42	8	426.11
	4	151,32	11	131.75	14	123.22	7	51.63	6	87.72	4	111.26	26	1538.94	10	532.63
	1	37.83	4	47.91	3	26.40	7	51.63	7	102.34	2	55.63	8	473.52	1	53.26
Microcalanus pygmeus pusillus	1	37.83		0.00		0.00	1	7.38		0.00		0.00		0.00		0.00
		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Eucheata sp		0.00		0.00		0.00		0.00		0.00		0,00		0,00	1	53.26
Metridia sp		0.00		0.00		0.00		0.00		0.00		0.00	1	59.19		0.00
Metridia pacifica		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
		0.00		0.00		0.00	1	7.38		0.00		0.00		0.00		0.00
		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Centropages abdominalis	1	37.83		0.00		0.00		0.00		0.00	4	111.26		0.00		0.00
	3	113.49		0.00		0.00	1	7.36		0.00	1	27.81		0.00		0.00
		0.00		0.00	1	6.60	1	7.38		0.00		0.00		0.00		0.00
		0.00	1	11.98		0.00		0.00		0.00		0.00		0.00		0.00
Acartia sp	7	264.81	4	47.91	27	237.63	65	626.69	1	14.62	51	1418.54		0,00	14	745.69
Acartia longiremis		0.00	26	311.40	4	35.21	11	81.13	7	102.34	a	222.52	1	59.19	6	319.58
	1	37.83	7	83.84	15	132.02	6	44.25	11	160.82	4	111.26		0.00	3	159.79
	7	264.81	34	407,21	2	17.60	15	110.63	3	43.86	8	222.52	2	118.38	3	159.79
Acartia tumida		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00

Appendix E. Densities of micro- and macrozooplankton.

		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Harpacticoida		0.00		0.00	2	17.60	2	14.75		0.00		0.00		0.00		0.00
		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Oithona sp		0.00		0.00	19	167.22	71	523.64		0.00	10	278.15	6	473.52	4	213.05
Oithona atlantica	1	37.83		0.00		0.00		0.00		0.00		0.00		0,00		0.00
	2	75.66		0.00		0.00		0.00		0.00		0,00		0.00	2	106.53
Oithona similis	31	1172.71	33	395.24	49	431.26	43	317.13	57	633.33	33	917.88	15	887.85	13	692.42
	62	234S.42	73	874.31	76	668.90	20	147,50	166	2426.90	183	5090.06	S8	3433.01	57	3036.02
	3	113.49	2	23.95	14	123.22	3	22.13	6	87.72	8	222.52	2	118.38	3	159.79
Oncaea sp		0.00		0.00		0.00		0.00		0.00		0.00		0.00	1	53.26
Oncaea borealis		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
AMPHIPODA																
Parathemisto libellula		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Cyphocaris sp		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Hyperoche sp		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Hyperiid juveniles	1	37.63		0.00		0.00	1	7.30		0.00		0.00		0.00	1	53.26
EUPHAUSIACEA																
Thysanoe sa sp		0.00	1	11.98		0.00	1	7.36		0.00	1	27.81		0.00		0,00
Euphausiid nauplii		0.00		0.00	1	8.80		0.00		0.00	1	27.61		0.00		0.00
Euphausiid protozoea		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Euphausiid zoea		0.00		0.00		0.00		0.00		0,00		0.00		0.00		0.00
Euphausiid juveniles		0.00		0.00		0.00		0.00		0.00		0.00		0.00	1	53.26
DECAPODA																
Caridea mysis	2	75.66		0.00	1	8.00		0.00	2	29.24		0.00		0.00		0.00
Crangon mysis		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Pandalus sp		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Brachyuran zoea		0.00		0.00		0.00	1	7.38		0.00	3	63.44		0.00	1	53.26
Pagurid zoea		0.00		0.00		0.00		0.00		0.00	1	27.81		0.00	1	53.26
ECHINODERMATA																
Bipinnaria larvae		0.00		0.00	3	26.40		0.00		0.00		0.00		0.00		0.00
Echinopluteus larvae		0.00		0.00	2	17.60		0.00		0.00	2	55.63		0.00		0.00
Asteroid larvae		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
TUNICATA																
Oikopleura a laboradoriensis		0.00	2	23.95	1	8.80		0.00		0.00		0.00		0.00	2	106.53
Fritillaria		0.00		0.00	13	114.42		0.00		0.00	9	250.33		0.00	1	53.26
VERTABRATA																
Fish eggs	1	37.83		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Fish larvae		0.00		0.00		0.00		0.00		0.00		0.00		0,00		0.00
Herring larvae		0.00		0.00		0,00		0.00		0.00	2	55.63	1	59.19		0.00
MISCELLANEOUS																
Small eggs		0.00		0.00		0.00		0.00		0.00		0.00		0.00	1	53.26
TOTAL FOR SAMPLE	213	8057.65	3.97	4635.06	540	4752.69	417	3075.46	649	12412.28	779	21667.S1	383	22669,70	323	17204.09

Appendix E. Densities of micro- and macrozooplankton.

SAMPLE NUMBER					1		2		3		4		8		9		10	
Date					2-May		2-May		2-May		2-May		2-May		2-May		2-May	
Site					TAT		TAT		TAT		TAT		FAIR		FAIR		FAIR	
Time					926		645		855		900		1900		1905		1910	
Mesh (um)					25		25		25		25		25		25		25	
Depth of tow (m)					20		15		10		2		20		15		10	
Volume tittered (m^3)					0.03		0.03		0.03		0.038		0.038		0.038		0.038	
Fraction enumerated					0.5		1		0.25		0.5		1		1		0.5	
SPECIES	STAGE	TAXONOMIC CODE	LENGTH m m MIN	MAX	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3
PROTOZOA																		
Foraminifera		3448	0.1	0.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
CNIDARIA																		
Medusa juvenile		3730	0.1	0.3		0.00		0.00		0.00	6	31s.79		0.00		0.00		0.00
Aegina		37120101	1,0	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Aglantha		37110411	1.0	3.0		0.00		0.00		0.00		0,00		0.00		0,00		0.00
			5.0	7.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Euphysa		37030312	1.S	2.0		0.00		0.00		0,00		0.00		0.00		0.00		0.00
Halitholus		37031206	5.0	7.0		0.00		0.00		0,00		0.00		0.00		0.00		0.00
Obelia		37040102	0.6	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Phialidium		37040104	6.0	6.0		0.00		0.00		0.00		0.00		0,00		0.00		0.00
Rathkea		37031902	1.5	2.0		0.00		0.00		0.00		0.00		0,00		0.00		0.00
Sarsia		37030609	5,0	6,0		0.00		0.00		0,00		0.00		0.00		0.00		0.00
TREMATODA																		
Flatworms		3901	0.6	1.0		0.00		0.00		0.00		0.00		0.00		0,00		0.00
NEMATODA																		
Nematodes		47	0.6	1.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
ROTIFERA																		
Rotifers		4S	0.2	0.6		0.00		0.00		0.00		0.00		0.00	1	26.32		0.00
CHAETOGNATHA																		
Sagitta elegans		8300000303	10.0	17.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Chaetognath juveniles			3.0	7.0	1	66.67		0.00		0.00		0.00		0.00	3	78.95		0,00
BRYOZOA																		
Cyphonautes larvae		78	0.4	0.8	4	266.67	10	333.33	1	133.33		0.00	23	60S.26	34	894.74	7	368.42
PHORONIDA																		
Actinotrocha larvae		77	0.8	1.0		0.00		0.00		0.00		0.00		0.00		0,00		0.00
MOLLUSCA																		
Limacina		51130101	0.6	2.0		0.00		0.00		0.00		0.00		0.00		0.00	2	105.26
Pteropod		5113	1.0	1.2		0.00		0.00		0.00		0,00		0.00		0.00		0.00
Bivalve veliger		55	0.0	0.2	13	866.67	1	33.33		0.00		0.00	14	368.42	15	394.74		0.00
			0.2	0.4	3	200.00		0.00		0.00		0.00		0.00	3	78.95		0.00
Gastropod veliger		51	0.0	0.2	7	466,67	9	300.00	1	133.33		0.00	7	184.21	8	210.53		0.00

Appendix E. Densities of micro- and macrozooplankton.

			0.2	0.4	9	600.00	4	133.33	3	400.00		0.00	1	26.32	4	105.26		0.00
			0.4	0.6		0.00	1	33.33	1	133.33		0.00	1	26.32	1	26.32	1	52.63
POLYCHAETA																		
Spionid larvae		500143	0.8	4.0	21	1400.00	11	366.67	16	2133.33	1	52.63		0.00	1	26.32	1	52.63
Polychaete larvae		5001	0.6	1.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Trochophore larvae		5001	0.2	0.6	3	200.00		0.00		0.00	1	52.63		0,00	1	26.32	1	52.63
CRUSTACEA																		
CIRRIPEDIA																		
Nauplii larvae		6130	0.2	0.6	2	133.33		0.00	2	266.67	6	315.79	1	26.32	1	26.32	1	52.63
Cypris larvae		6130	0.8	1.2	3	200.00	2	66.67		0.00	s	263.16		0.00		0.00	2	105.26
CLADOCERA																		
Evadne		61090501	1.0	1.2		0.00		0.00		0,00	10	526.32		0.00		0.00		0.00
Podon		61090502	0.6	1.0		0.00	1	33.33	2	266.67	6	315.79	1	26.32		0.00		0.00
COPEPODA																		
Copepod nauplii		6118	0.0	0.2	45	3000.00	1s1	5033.33	56	7466.67	54	2842.11	57	1500,00	102	2664.21	40	2105.26
			0.2	0.4	143	9s33.33	26	866.67	36	4800.00	25	131s.79	128	3366.42	153	4026.32	17	894.74
			0.4	0.6	3	200,00		0.00	2	266.67		0.00	1	26.32	2	52.63		0.00
			0.6	1.0		0.00	1	33.33		0.00		0.00		0.00		0.00		0.00
Copepodites	I-III	6118	0.2	0,4	1	66.67		0.00		0.00		0.00	1	26.32		0.00		0.00
			0.4	0,6	7	466.67	9	300.00	3	400,00	3	157.09	12	315.79	28	736.84	3	157.89
			0.6	0.8	6	400.00	12	400.00	10	1333.33	5	263.16	11	289.47	26	684.21	21	1105.28
Calanus sp	I	61180102	0.s	1.1		0.00		0.00		0.00		0.00		0.00		0.00		0,00
	II		1.2	1.5		0.00	1	33.33		0.00	3	157.69		0.00		0.00	3	157.89
	III		1.5	2.4	1	66.67	3	100.00	2	266.67	6	315.79	2	52.63	3	78.95	4	210.53
Calanus marshallae	Iv	6118010204	2.3	2.6		0.00	3	100.00	2	266.67	1	52.63		0.00		0.00		0.00
	v		2.8	3.6		0.00	1	33,33	1	133.33	2	105.26		0.00	2	52.63	1	52.63
	VIf		3.7	4,2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIm		3.5	4.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Calanus pacificus	v	6118010205	2.5	2.6		0.00		0.00		0.00		0.00		0.00	1	26.32		0.00
Neocalanus sp	Iv	61160104	3.1	4.4		0.00		0.00		0.00	1	52.63		0.00		0.00		0.00
Neocalanus cristatus	v	6118010201	7.1	8.9		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus flemingeri	v		4.1	5.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus plumchrus	v	6116010206	4.1	S.2		0.00	1	33.33	2	266.67		0.00		0.00	1	26.32	4	210.53
Eucalanus	I	61160301	1.3	1.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	II		1.6	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	III		2.9	3.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Eucalanus bungii	Iv	6116030102	3.4	3.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	Vf		4.9	5.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	Vm		4.5	4.8		0,00		0.00		0.00		0.00		0.00		0.00		0.00
Paracalanus parvus	v	6118040101	0.7	1.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Pseudocalanus sp. complex	Iv	61180505	0.9	1.1	6	400,00	13	433,33	12	1600.00	8	421.05	3	78.95	7	184.21	31	1631.58
	VI		1.1	1.3	3	200.00	14	466.67	34	4533.33	13	684,21	3	78.95	5	131.56	36	1894.74
	Vm		1.0	1.3	3	200.00	12	400.00	9	1200.00	15	769.47	4	105.26	3	78,95	72	3769.47
	VIf		1.1	2,0	5	333.33	12	400.00	21	2000.00	21	1105.26		0.00	3	78.95	17	694.74
	VIm		1.1	1.5	6	533.33	16	533,33	23	3066.67	4	210.53		0.00		0.00	8	421.05

Appendix E. Densities of micro- and macrozooplankton.

Microcalanus pygmeus pusillus	V	61180504	0.6	0.7		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Metridia sp	I-III	61101602	0.5	1.1		0.00		0.00		0.00		0.00	1	26.32	1	26.32		0.00
Metridia pacifica	Iv	6118160214	1.1	1.3		0.00		0.00		0.00		0.00		0.00	1	26.32		0,00
	vi		1.8	2.1		0.00		0.00	1	133.33		0.00	2	52.63		0.00		0.00
	Vm		1.5	1.8	1	66.67		0.00		0.00		0.00	2	52.63		0.00		0.00
	VIf		2.5	2.9		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Centropages abdominalis	IV	6118170101	0.9	1.1		0.00		0.00	1	133.33	5	263.16		0.00		0.00		0,00
	v		1.1	1.3		0.00		0.00		0.00	4	210.53		0.00		0.00		0.00
	VIf		1.6	2.1		0.00	1	33.33		0.00		0,00		0.00		0.00		0.00
	VIm		1,4	1,5		0,00		0.00		0.00		0.00	1	26.32		0.00		0.00
Acartia sp	1-IV	61162901	0.5	0.7		0.00	1	33.33	3	400.00	24	1263.16		0.00		0.00		0.00
Acartia longiremis	v	6118290103	0.7	1.0		0.00		0.00	1	133.33	35	1842.11	2	62.63		0.00		0.00
	VIf		1.0	1,3		0.00		0.00		0.00	39	2052.63	2	52.63	1	26.32		0.00
	Vim		0.9	1.1	1	66.67		0.00	2	266.67	39	2052.63	1	26.32		0.00		0.00
Acartia tumida	v	6118290105	1.5	1.8		0.00		0,00		0.00	3	157.89		0.00		0.00		0.00
	VIf		2.0	2.1		0.00		0.00		0.00	2	105.26		0.00		0.00		0.00
	VIm		1.7	1.8		0.00		0.00		0,00	2	105.26		0.00		0.00		0.00
Monstrilla	VIm	6122	1.2	1.4		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Harpacticoida	v	6119	0.6	0.8		0.00		0.00		0.00		0.00		0.00		0.00	2	105.26
	VIf		0.7	1.0		0.00		0.00		0.00		0.00		0.00		0.00	1	52,63
Microsetella	VIf	61190901	0.5	0.9		0.00		0.00		0.00		0.00		0.00	1	26.32		0.00
Oithona sp	I-IV	61200901	0.4	0.7	13	866.67	5	166.67	4	533.33	4	210.53	37	973.68	38	1000.00	22	1157.69
Oithona atlantica	v	6120090123	0.8	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0,00
	VIf		1.2	1.4		0.00		0.00		0.00		0.00	1	26.32		0.00		0.00
Oithona similis	v	6120090103	0.6	0.6		0.00		0.00		0.00	2	105.26	8	210.53		0.00	1	52.63
	VIf		0.7	1.0	21	1400.00	10	333.33	10	1333.33	3	157.89	12	315.79	12	315.79	12	631.58
	VIm		0.5	0,7	2	133.33	1	33.33	2	266.67		0.00	1	26.32	1	26.32		0.00
Oncaea sp	v	61200103	0.5	0.7	1	66.67		0.00		0.00		0.00	3	78,95	1	26.32	1	S2.63
Oncaea borealis	VIf	6120010301	0.6	0.7		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	Vim		0.3	0.4		0.00		0.00		0.00		0.00		0.00		0.00		0.00
AMPHIPODA																		
Parathemisto pacifica		6170011003	4.0	4.0		0.00		0,00		0.00		0.00		0.00		0.00		0.00
Cyphocaris sp		61693411	9.0	9.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Hyperiid juveniles		6170	1.5	2.0		0,00		0.00		0.00		0.00		0.00		0.00		0.00
Isopod		6156	0.4	0,6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
EUPHAUSIACEA																		
Thysanoessa sp		61740209	5.5	8.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Euphausiid nauplii		6174	0.5	0.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Euphausiid protozoea		6174	0.0	0.5	1	66.67		0.00		0.00		0.00		0.00		0.00		0.00
			0.5	1.0	1	66.67	2	66.67	1	133.33		0.00	2	52.63		0.00		0.00
			1.0	1.5	3	200.00	1	33.33		0.00	1	52.63	3	78.95		0.00		0.00
			1.5	2.0		0.00		0.00	1	133.33		0.00	2	52.63		0.00		0.00
			2.0	2.5		0.00	1	33.33		0.00		0.00		0.00		0.00		0.00
Euphausiid zoea		6174	2.0	2,5	1	66.67	1	33.33		0.00		0.00		0.00		0.00		0.00
			2.5	3.0	1	66.67		0.00	1	133.33		0.00		0.00	1	26.32		0.00

Appendix E. Densities of micro- and macrozooplankton.

		3.0	3.5		0.00		0.00		0.00		0.00	1	26.32		0.00		0.00
		3.5	4.0		0.00	2	66.67	1	133.33		0.00		0.00		0.00		0.00
Euphausiid Juveniles	6174	4.5	6.0		0.00		0.00		0.00		0.00	1	26.32		0.00		0.00
DECAPODA																	
Caridea mysis	6179	2.5	7,0		0.00		0.00		0.00		0.00	1	26.32		0.00		0.00
Crangon mysis	617922	3.0	3,0		0,00		0.00		0,00		0.00		0.00		0.00		0/30
Pandalus sp	617918	11.0	25.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Brachyuran zoea	6184	1.5	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Paguridzoea	618306	1.5	6.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
ECHINODERMATA																	
Bipinnaria larvae	81	0.6	0.7		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Echinopluteus larvae	81	0.6	1.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Asteroid larvae	8104	0.6	0.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
TUNICATA																	
Oikopleura	84130101	1.5	10.0	3	200.00	2	66.67	2	266.67		0.00		0.00	2	52.63		0,00
Fritillaria	841302	1.5	2.0	6	400.00	4	133.33		0.00		0,00	1	26.32		0.00		0.00
VERTABRATA																	
Fish eggs	8735	3.0	3.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Fish larvae	6735	7.0	10.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Herring larvae	874701	6.0	9.0		0.00		0.00	1	133,33		0.00		0.00		0.00		0.00
MISCELLANEOUS																	
Small eggs		0.2	0.4	1	66.67		0.00		0.00		0.00		0.00		0.00		0.00
TOTALS FOR SAMPLE				353	23533.33	345	11500.00	270	36000.00	359	18094.74	354	9315.79	467	12289.47	311	16368.42

Appendix E. Densities of micro- and macrozooplankton.

		3.0	3.5		0.00	1	52.63		0.00		0.00		0.00	3	157.89		0.00
		3.5	4.0		0.00		0.00	1	52.63	1	52.63		0.00		0.00	3	157.89
Euphausiid juveniles	6174	4.5	6.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
DECAPOOA																	
Carldea mysis	6179	2.5	7,0		0.00		0.00		0.00		0.00		0.00		0.00	1	52.63
Crangon mysis	617922	3.0	3.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Pandalus sp	617918	11.0	25.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Brachyuran zoea	6184	1,5	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Paguriid zoea	616306	1.5	6.0		0.00		0,00		0.00	1	52.63		0.00		0.00	1	52.63
ECHINODERMATA																	
Bipinnaria larvae	81	0.6	0.7		0.00		0.00		0.00		0.00		0.00		0,00		0.00
Echinopluteus larvae	81	0.6	1.5		0.00		0.00	4	210.53		0.00		0.00		0.00		0.00
Asteroid larvae	8104	0.6	0.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
TUNICATA																	
Oikopleura	64130101	1.5	10.0	1	52.S3		0.00		0.00	1	52.63		0.00		0.00		0.00
Fritillaria	64134)2	1.5	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
VERTABRATA																	
Fish eggs	8735	3.0	3.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Fish larvae	8735	7.0	10.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Herring larvae	874701	6.0	9.0		0.00		0.00		0.00	1	52.63		0.00		0.00		0.00
MISCELLANEOUS																	
Small eggs		0.2	0.4		0.00		0.00		0.00		0.00		0.00		0,00		0.00
TOTALS FOR SAMPLE				262	14842.11	345	18157.69	285	15000.00	312	16421.05	295	15526.32	267	15105.26	391	20578.95

Appendix E. Densities of micro- and macrozooplankton.

SAMPLE NUMBER					24		25		29		30	
Date					3-May		3-May		10-May		10-May	
Site					ROCK		ROCK		TAT		TAT	
Time					1845		1908		1913		1919	
Mesh (urn)					25		25		25		25	
Depth of tow (m)					10		5		30		20	
Volume filtered (m3)					0.038		0.038		0.03		0.03	
Fraction enumerated					0.25		0.5		0.5		0.5	
SPECIES	STAGE	TAXONOMIC CODE	LENGTH m m MIN	MAX	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3
PROTOZOA												
Foraminifera		3448	0.1	0.2		0.00		0.00		0.00		0.00
CNIDARIA												
Medusa juvenile		3730	0.1	0.3		0,00		0.00		0.00		0.00
Aegina		37120101	1.0	2.0		0.00		0.00		0.00		0.00
Aglantha		37110411	1.0	3.0		0.00		0.00		0.00		0.00
			5.0	7.0		0.00		0.00		0.00		0.00
Euphysa		37030312	1.S	2.0		0.00		0.00		0.00		0.00
Halitholus		37031206	5.0	7.0		0.00		0.00		0.00		0.00
Obella		37040102	0.6	1,0		0.00		0.00		0.00		0.00
Phialidium		37040104	6.0	6.0		0.00		0.00		0.00		0.00
Rathkea		37031902	1.5	2.0		0.00		0.00	1	66.67		0.00
Sarsia		37030609	5.0	6.0		0.00		0.00		0.00	1	66.67
TREMATODA												
Flatworms		3901	0.6	1.0	1	105.26		0.00	3	200.00	1	86.67
NEMATOOA												
Nematodes		47	0.6	1,5		0.00		0.00		0.00	1	88.67
ROTIFERA												
Rotifers		4.5	0.2	0.6		0.00		0.00		0.00		0.00
CHAETOGNATHA												
Sagitta elegans		8300000303	10.0	17.0		0.00		0.00		0.00		0.00
Chaetognath Juveniles			3.0	7.0	3	315.79		0.00		0.00	1	66.67
BRYOZOA												
Cyphonautes larvae		78	0.4	0.8	3	315.79		0.00		0.00		0.00
PHORONIDA												
Actinotrocha larvae		77	0.8	1.0		0.00		0.00		0.00		0.00
MOLLUSCA												
Limacina		51130101	0.6	2.0		0.00		0.00		0.00		0.00
Pteropod		5113	1.0	1.2		0.00		0.00		0.00		0.00
Bivalve veliger		55	0.0	0.2	1	10S.26		0.00	5	333.33	18	1200.00
			0.2	0.4	1	105.26		0.00	3	200.00	7	466.67
Gastropod veliger		51	0.0	0.2		0.00		0.00		0.00	6	400.00

Appendix E. Densities of micro- and macrozooplankton.

			0.2	0.4		0.00		0.00		0.00	5	333.33
			0.4	0,6		0.00		0.00	2	133.33	3	200.00
POLYCHAETA												
Spionid larvae		500143	0.8	4.0	2	210.53		0.00	28	1866.67	15	1000.00
Polychaete larvae		5001	0.6	1.5		0.00		0.00		0.00		0.00
Trochophore larvae		5001	0.2	0.6	3	315.79		0.00	4	266.67		0.00
CRUSTACEA												
CIRRIPEDIA												
Nauplii larvae		6130	0.2	0.8	8	842.11		0.00	1	66.67		0,00
Cypris larvae		6130	0.8	1.2		0,00		0.00	1	66.67	3	200.00
CLADOCERA												
Evadne		61090501	1.0	1.2		0.00		0.00		0.00		0.00
Podon		61090502	0.6	1.0		0.00		0.00		0.00		0.00
COPEPODA												
Copepod nauplii		6116	0.0	0.2	52	5473.68	166	6842.11	42	2800.00	65	4333.33
			0.2	0.4	96	10105.26	161	8473.66	157	10466.67	102	6600.00
			0.4	0.6	1	105.26		0.00	5	333.33		0.00
			0.6	1.0		0.00		0.00		0.00		0.00
Copepodites	I-III	6118	0.2	0.4		0.00	1	52.63		0.00		0.00
			0.4	0.6	4	421.05	14	736.64	5	333.33	2	133.33
			0.6	0.8	9	947.37	19	1000.00		0.00	5	333.33
Calanus sp	I	61180102	0.5	1.1	3	315.79	2	105.26		0.00	1	66.67
	II		1.2	1.5	5	526.32	2	105.26		0.00	1	66.67
	III		1.5	2.4	1	105.26	4	210.53		0.00	3	200.00
Calanus marshallae	Iv	6115010204	2.3	2.6	2	210.53		0.00		0.00	1	66.67
	v		2.8	3.8		0.00		0.00	1	66.67	1	66.67
	VIf		3.7	4.2		0.00		0.00		0.00		0.00
	VIm		3.5	4.0		0.00		0.00		0.00		0.00
Calanus pacificus	v	6118010205	2.5	2.8		0,00		0.00		0.00		0.00
Neocalanus sp	Iv	61180104	3.1	4.4		0.00		0.00		0.00		0.00
Neocalanus cristatus	v	6118010201	7.1	6.9		0.00		0.00		0.00		0.00
Neocalanus flemingeri	v		4.1	5.2		0.00	1	52.63		0.00		0.00
Neocalanus plumchrus	v	6116010206	4.1	5.2		0.00		0.00		0.00		0.00
Eucalanus	I	61160301	1.3	1.6		0.00		0.00		0.00		0.00
	II		1.6	2.0		0.00	1	52.63		0.00		0.00
	III		2.9	3.0		0.00		0.00		0.00		0.00
Eucalanus bungii	IV	6118030102	3.4	3.8		0.00		0.00		0.00		0.00
	w		4.9	5.2	1	105.26		0.00		0.00		0.00
	Vm		4.5	4.8		0.00		0.00		0.00		0.00
Paracalanus parvus	v	6118040101	0.7	1.1		0.00		0.00		0.00		0.00
Pseudocalanus sp. complex	Iv	61180505	0.9	1.1	5	526.32	8	421.05	2	133.33	8	533.33
	w		1.1	1.3	14	1473.68	12	631.58	3	200.00	11	733.33
	Vm		1.0	1.3	11	1157.89	17	894.74	2	133.33	11	733.33
	VIf		1.1	2.0	11	1157.89	2	105.26	4	266.67	13	666.67
	VIm		1.1	1.5	1	105.26	1	52.63	3	200.00	9	600.00

Appendix E. Densities of micro- and macrozooplankton.

Microcalanus pygmeus pusillus	V	61160504	0.6	0.7		0.00		0.00		0.00		0.00
Metridia sp	I-III	61181602	0.5	1.1		0.00		0.00		0.00		0.00
Metridia pacifica	Iv	6118160214	1.1	1.3		0.00		0.00		0.00		0.00
	w		1.8	2.1		0.00		0.00		0,00		0.00
	Vm		1.5	1.8		0.00		0,00		0.00		0.00
	VIf		2.5	2.9		0.00		0.00		0.00		0.00
Centropages abdominalis	Iv	6118170101	0.9	1.1		0.00		0.00		0.00		0.00
	v		1.1	1.3		0.00	1	52.63		0.00	1	66.67
	VIf		1.6	2.1		0.00		0.00		0.00	1	66.67
	VIm		1.4	1.5		0.00		0.00		0.00	1	68.67
Acartia sp	I-IV	61182901	0.5	0.7	1	105.26		0.00		0.00	1	66.67
Acartia longiremis	v	6118290103	0.7	1.0	1	105.26	7	368.42		0.00	1	66.67
	VIf		1.0	1.3		0.00	1	52.63	1	68.67	1	66.67
	VIm		0.9	1.1	1	105.26	4	210.53		0.00	1	66.67
Acartia tumida	v	6118290105	1.5	1.6		0.00		0.00		0.00		0.00
	VIf		2.0	2.1		0.00		0.00		0,00		0.00
	VIm		1.7	1.8		0.00		0.00		0.00		0.00
Monstrilla	VIm	6122	1.2	1.4		0.00		0.00		0.00		0.00
Harpacticoida	v	6119	0.6	0.8	1	105.26		0.00	2	133.33		0.00
	VIf		0.7	1.0		0.00		0.00		0.00		0.00
Microsetella	VIf	61190901	0.5	0,9	1	105.26		0.00		0,00		0.00
Oithona sp	I-IV	61200901	0.4	0.7	15	1578.95	38	2000.00	36	2400.00	15	1000.00
Oithona atlantica	v	6120090123	0.8	1.0		0.00		0.00		0.00		0.00
	VIf		1.2	1.4		0.00		0.00		0.00		0.00
Oithona similis	v	6120090103	0.6	0,6	1	105.26		0.00		0.00		0.00
	VIf		0.7	1.0	14	1473.68	11	570.95	24	1600,00	9	600.00
	VIm		0.5	0.7	1	105.26	2	105.26	2	133.33	1	66.67
Oncaea sp	v	61200103	0.5	0.7	3	315.79		0.00		0.00	1	66.67
Oncaea borealis	VIf	6120010301	0.6	0.7		0.00		0.00		0.00		0.00
	VIm		0.3	0.4		0.00		0.00		0.00		0.00
AMPHIPODA												
Parathemisto pacifica		6170011003	4.0	4.0		0.00		0.00		0.00	1	66.67
Cyphocaris sp		61693411	9.0	9.0		0.00		0.00		0.00		0.00
Hyperiid juveniles		6170	1.5	2.0		0.00		0.00		0.00		0.00
Isopod		6158	0.4	0.6		0.00		0.00		0.00		0.00
EUPHAUSIACEA												
Thysanoessa sp		61740209	5.5	8.0		0.00		0.00		0.00		0.00
Euphausiid nauplii		6174	0.5	0.6		0.00		0.00		0.00	1	66.67
Euphausiid protozoea		6174	0.0	0.5		0.00		0.00		0.00		0.00
			0.5	1.0		0,00		0.00	1	66.67		0.00
			1.0	1.5	2	210.53	1	52.63		0.00		0.00
			1.5	2.0	5	526.32	1	52.63		0.00	1	66.67
			2.0	2.5		0.00		0.00		0,00		0.00
Euphausiid zoea		6174	2.0	2,5	2	210,53		0.00		0.00		0.00
			2.5	3.0	6	631.58		0.00		0.00		0.00

Appendix E. Densities of micro- and macrozooplankton.

Microcalanus pygmeus pusillus	V	61180504	0.6	0,7		0.00		0.00		0.00		0.00		0.00		0.00			
Metridia sp	I-III	61181602	0.5	1.1		0,00		0.00		0.00		0.00		0.00	2	66.67			
Metridia pacifica	Iv	6118160214	1.1	1,3		0.00		0.00		0.00		0,00		0.00		0.00			
	Vf		1.8	2.1		0.00		0.00		0.00		0.00		0.00		0.00			
	Vm		1.5	1.8		0.00	1	33.33	1	33.33		0.00		0.00		0.00			
	VIf		2.5	2.9		0.00		0.00		0.00		0.00		0.00		0.00			
Centropages abdominalis	Iv	6118170101	0.9	1.1		0.00		0.00		0,00		0.00		0.00	1	33.33			
	v		1.1	1.3	1	33.33		0.00		0.00		0.00		0.00		0.00			
	VIf		1.6	2.1		0.00		0.00		0.00		0.00		0.00		0.00			
	VIm		1.4	1.5		0.00		0.00		0.00		0.00		0.00		0.00			
Acartia sp	I-IV	61182901	0.5	0.7		0.00		0.00	2	66.67	1	33.33		0.00	5	166.67	8		
Acartia longiremis	v	6118290103	0.7	1.0		0.00		0.00	1	33.33		0.00		0.00	1	33.33			
	VIf		1.0	1.3		0.00		0.00	2	66.67	2	66.67		0.00		0.00			
	VIm		0.9	1.1		0.00		0.00	3	100.00	2	66.67		0.00	1	33.33			
Acartia tumida	v	6118290105	1.5	1.8		0.00		0.00		0.00		0.00		0.00		0.00			
	VIf		2.0	2.1		0.00		0.00		0.00		0.00		0.00		0.00			
	VIm		1.7	1.8		0.00		0.00		0.00		0.00		0.00		0.00			
Monstrilla	VIm	6122	1.2	1.4		0.00		0.00		0.00		0.00		0.00		0.00			
Harpacticoida	v	6119	0.6	0.8		0.00		0.00		0.00		0.00		0.00		0.00			
	VIf		0.7	1.0		0.00		0.00		0.00		0.00		0.00		0.00	1		
Microsetella	VIf	61190901	0,5	0,9	1	33.33	1	33.33	1	33.33		0.00		0.00		0.00			
Oithona sp	I-IV	61200901	0.4	0.7	20	666.67	41	1366.67	29	966.67	22	733.33	40	2666.67	53	1766.67	23		
Oithona atlantica	v	6120090123	0.8	1.0		0.00		0.00		0,00		0.00		0.00		0.00			
	VIf		1.2	1.4		0,00		0.00	1	33.33		0.00		0.00		0.00			
Oithona similis	v	6120090103	0.6	0.8		0.00	3	100.00		0.00		0.00		0.00	3	100.00			
	VIf		0.7	1,0	24	800.00	10	333.33	36	1200.00	10	333,33	9	600.00	9	300.00	5		
	VIm		0.5	0,7	4	133.33	1	33.33	3	100.00	1	33.33	1	66.67		0.00	1		
Oncaea sp	v	61200103	0.5	0.7	2	66.67		0.00	2	66.67	2	66.67		0.00		0.00	1		
Oncaea borealis	VIf	6120010301	0.6	0.7	1	33.33		0.00	1	33.33		0.00		0.00		0.00			
	VIm		0.3	0.4		0.00		0.00		0.00		0.00		0.00		0.00			
AMPHIPODA																			
Parathemisto pacifica		6170011003	4,0	4.0		0.00		0.00		0.00		0.00		0.00		0.00			
Cyphocaris sp		61693411	9.0	9.0		0.00		0.00		0,00		0.00		0.00		0.00			
Hyperiid juveniles		6170	1.S	2.0		0.00		0.00		0.00		0.00		0.00		0.00			
Isopod		6158	0.4	0.6		0.00		0.00		0.00		0.00		0.00		0.00			
EUPHAUSIACEA																			
Thysanoessa sp		61740209	5.5	8.0		0.00		0.00		0.00		0.00		0,00		0.00			
Euphausiid nauplii		6174	0.5	0.6		0.00		0.00		0.00		0.00		0.00		0.00			
Euphausiid protozoea		6174	0.0	0.5		0.00		0.00		0.00		0.00		0.00		0.00			
			0.5	1.0		0.00		0.00		0.00		0.00		0.00		0.00			
			1.0	1.5		0.00		0.00	3	100.00	1	33.33		0.00		0.00			
			1.5	2.0		0.00	1	33.33	2	66.67		0.00		0.00		0.00			
			2.0	2.5		0.00	1	33.33		0,00		0.00		0.00		0.00			
Euphausiid zoea		6174	2.0	2.5	1	33.33	1	33.33		0.00		0.00		0.00		0.00			
			2.s	3.0		0.00	2	66.67	4	133.33	2	66.67		0.00		0.00			

		3.0	3.s		0.00		0 . 0 0		0.00		0.00		0.00		0.00	
		3.5	4.0		0.00		0.00		0,00		0.00		0,00		0.00	
Euphausiid Juveniles	6174	4.5	6.0		0.00		0.00		0.00		0.00		0.00		0.00	
DECAPODA																
. Caridea mysis	6179	2.5	7.0		0.00		0.00		0.00		0.00		0.00		0.00	
Crangon mysis	617922	3.0	3.0		0.00		0.00		0.00		0.00		0.00		0.00	
Pandalus sp	617918	11.0	25,0		0.00		0.00		0.00		0.00		0.00		0.00	
Brachyuran zoea	6184	1.5	2.0		0.00		0.00		0.00		0.00		0.00		0.00	
Pagurid zoea	616306	1.5	6.0		0.00		0.00		0,00		0.00		0.00		0.00	
ECHINODERMATA																
Bipinnaria larvae	61	0.6	0.7		0.00		0.00		0.00		0.00		0.00		0.00	
Echinopluteus larvae	81	0.6	1.5		0.00		0.00		0.00		0.00		0.00		0.00	
Asteroid larvae	6104	0.6	0.6		0.00		0.00		0.00		0.00		0.00		0.00	
TUNICATA																
Oikopleura	64130101	1.5	10.0		0.00	2	66.67	9	300.00	4	133.33	1	66.67		0.00	
Fritillaria	841302	1.5	2.0	2	66.67		0.00		0.00		0.00		0.00		0.00	
VERTABRATA																
Fish eggs	6735	3.0	3.0		0.00		0.00		0.00		0.00		0.00		0.00	
Fish larvae	6735	7.0	10.0		0.00		0.00		0.00		0.00		0.00		0.00	
Herring larvae	674701	6.0	9.0		0.00		0.00		0.00	1	33.33		0.00		0.00	
MISCELLANEOUS																
Small eggs		0.2	0.4		0,00		0.00		0.00		0.00		0.00		0.00	
TOTALS FOR SAMPLE				501	16700.00	485	16166,67	418	13933.33	361	12700.00	352	23466.67	528	17600.00	17'7

Appendix E. Densities of micro- and macrozooplankton.

SAMPLE NUMBER					60		64		65	
Date					20-May		21- May		21-May	
Site					TAT		ROCK		ROCK	
Time					1006		1035		1040	
Mesh (urn)					25		25		25	
Depth of tow (m)					5		30		20	
Volume filtered (m3)					0.03		0.03		0.03	
Fraction enumerated					1		1		1	
SPECIES	STAGE	TAXONOMIC CODE	LENGTH m m MIN	MAX	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3
PROTOZOA											
Foraminifera		3448	0.1	0.2	0.00		0.00		0.00		0.00
CNIDARIA											
Medusa juvenile		3730	0.1	0.3	0.00		0.00		0.00		0.00
Aegina		37120101	1.0	2.0	0.00		0.00		0.00		0.00
Aglantha		37110411	1.0	3.0	33.33	2	66.67		0.00		0.00
			5.0	7.0	0.00		0.00		0.00		0.00
Euphysa		37030312	1.5	2.0	0.00		0.00		0.00		0.00
Halitholus		37031206	S.0	7.0	0.00		0.00		0.00		0.00
Obella		37040102	0.6	1.0	0.00		0.00		0.00		0.00
Phialidium		37040104	6.0	6.0	0.00		0.00		0.00		0.00
Rathkea		37031902	1.5	2.0	0.00		0.00		0.00		0.00
Sarsia		37030609	5,0	6.0	0.00		0.00		0.00		0.00
TREMATOOA											
Flatworms		3901	0.6	1,0	0.00		0.00		0.00		0.00
NEMATODA											
Nematodes		47	0.8	1.5	0.00		0.00		0.00		0.00
ROTIFERA											
Rotifers		45	0.2	0.6	0,00		0.00		0.00		0.00
CHAETOGNATHA											
Sagitta elegans		8300000303	10.0	17.0	0.00		0.00		0.00		0.00
Chaetognath juveniles			3.0	7.0	100.00		0.00	1	33.33		0.00
BRYOZOA											
Cyphonautes larvae		7.9	0,4	0.8	233.33	10	333.33		0.00		0.00
PHORONIDA											
Actinotrocha larvae		77	0.8	1.0	0.00		0.00		0.00		0.00
MOLLUSCA											
Limacina		51130101	0,6	2.0	66.67		0.00		0,00		0.00
Pteropod		S113	1.0	1.2	0.00		0.00		0.00		0.00
Bivalve veliger		55	0.0	0.2	0.00		0,00	3	100.00	4	133.33
			0.2	0,4	0.00	2	66.67	4	133.33		0.00
Gastropod veliger		51	0.0	0.2	266.67	1	33.33	1	33.33	2	66.67

Appendix E. Densities of micro- and macrozooplankton.

			0.2	0.4	66.67		0.00	2	66.67	6	200.00
			0.4	0.6	33.33		0.00	1	33.33	1	33,33
POLYCHAETA											
Spionid larvae		500143	0.8	4.0	0.00	3	100.00		0.00	3	100.00
Polychaete larvae		5001	0.6	1.5	0.00		0.00		0.00		0.00
Trochophore larvae		5001	042	0.6	100,00	3	100.00	1	33.33	8	266.67
CRUSTACEA											
CIRRIPEDIA											
Nauplii larvae		6130	0.2	0.8	100.00	4	133.33	1	33.33	1	33,33
Cypris larvae		6130	0.8	1.2	0,00		0.00		0.00		0.00
CLADOCERA											
Evadne		61090501	1.0	1.2	0.00		0.00		0.00		0.00
Podon		61090502	0.6	1.0	0.00		0,00		0.00		0.00
COPEPODA											
Copepod nauplii		6118	0.0	0,2	666.67	54	1600.00	78	2600.00	180	6000.00
			0.2	0.4	2400.00	57	1900.00	136	4533,33	279	9300.00
			0.4	0.6	33.33		0.00		0.00		0.00
			0.6	1,0	0.00		0.00		0.00		0.00
Copepodites	I-III	6118	0.2	0.4	0.00		0.00	1	33.33	1	33.33
			0.4	0.6	0.00	2	66.67	8	266.67	3	100.00
			0.6	0.6	0.00	3	100.00	8	266.67	1	33.33
Calanus sp	I	61180102	0.5	1.1	0.00		0.00		0.00		0.00
	II		1.2	1.5	0.00		0.00		0.00		0.00
	III		1.5	2.4	0.00		0.00		0.00		0.00
Calanus marshallae	IV	611 BO1O2O4	2.3	2.6	0.00		0.00		0.00		0.00
	v		2.8	3.8	0.00	2	66.67		0.00		0.00
	VIf		3.7	4.2	0.00		0.00		0.00		0.00
	VIm		3.5	4.0	0.00		0.00		0.00		0.00
Calanus pacificus	v	6118010205	2.5	2.6	0.00		0.00		0.00		0,00
Neocalanus sp	Iv	61160104	3.1	4.4	0.00		0.00		0.00		0.00
Neocalanus cristatus	v	6118010201	7.1	8.9	0,00		0.00		0.00		0.00
Neocalanus flemingeri	v		4.1	5.2	66.67	1	33.33		0.00		0.00
Neocalanus plumchrus	v	6118010206	4.1	5.2	0.00		0.00		0.00		0.00
Eucalanus		61180301	1.3	1.6	0.00		0.00		0.00		0.00
	II		1.6	2.0	0.00		0.00		0.00		0.00
	III		2.9	3.o	0.00		0.00		0.00		0.00
Eucalanus bungii	Iv	6118030102	3.4	3.8	0.00		0.00		0.00		0.00
	w		4.9	5.2	0.00		0.00		0.00		0,00
	Vm		4.5	4.8	0.00		0.00		0.00		0.00
Paracalanus parvus	v	6118040101	0.7	1.1	0.00		0.00		0.00		0.00
Pseudocalanus sp. complex	Iv	61180505	0,9	1.1	133.33	2	66.67	4	133.33	2	66.67
	w		1.1	1.3	100.00	10	333.33	5	166.67	3	100.00
	Vm		1.0	1.3	166.67	13	433.33	3	100.00	7	233.33
	VIf		1.1	2.0	33.33	12	400.00		0.00	2	66,67
	VIm		1.1	1.5	0.00	4	133.33	1	33.33		0.00

Appendix E. Densities of micro- and macrozooplankton.

Microcalanus pygmeus pusillus	V	61180504	0.6	0,7	0.00		0.00		0.00		0.00	
Metridia sp	I-III	61181602	0.5	1.1	0.00		0.00	2	66.67		0.00	
Metridia pacifica	Iv	6118160214	1.1	1.3	0.00		0.00		0.00		0.00	
	Vf		1.8	2.1	0.00		0.00		0.00		0.00	
	Vm		1,5	1.8	0.00		0.00		0.00		0.00	
	VIf		2.5	2.9	0.00		0.00		0.00		0.00	
Centropages abdominalis	Iv	6118170101	0.9	1.1	0.00		0.00		0.00		0.00	
	v		1.1	1.3	0.00		0.00		0.00		0.00	
	VIf		1.6	2.1	0.00		0.00		0.00		0.00	
	VIm		1.4	1.5	0.00	2	66.67		0.00	1	33.33	
Acartia sp	I-iv	61102901	0.s	0.7	266.67	6	200.00		0.00		0.00	
Acartia longiremis	v	6118290103	0.7	1.0	0.00	10	333.33		0.00	1	33.33	
	VIf		1,0	1.3	0.00	2	66.67	1	33.33		0.00	
	VIm		0.9	1.1	0,00	4	133.33		0.00	2	66.67	
Acartia tumida	v	6110290105	1.s	1.8	0.00		0.00		0.00		0.00	
	VIf		2.0	2.1	0.00		0.00		0.00		0.00	
	VIm		1.7	1.8	0.00		0.00		0.00		0.00	
Monstrilla	VIm	6122	1.2	1,4	0.00		0.00		0.00		0.00	
Harpacticoida	v	6119	0.6	0.8	0.00	4	133,33		0,00	1	33.33	
	VIf		0.7	1.0	33.33	2	66.67		0.00		0.00	
Microsetella	VIf	61190901	0.5	0.9	0.00		0.00		0.00		0.00	
Oithona sp	I-IV	61200901	0.4	0.7	766.67	19	633.33	21	700.00	30	1000.00	
Oithona atlantica	v	6120090123	0.8	1,0	0.00		0.00		0,00		0.00	
	VIf		1.2	1.4	0.00		0.00		0.00		0.00	
Oithona similis	v	6120090103	0.6	0.8	0.00	2	66.67	7	233.33	7	233.33	
	VIf		0.7	1,0	166,67	5	166.67	13	433.33	27	900.00	
	VIm		0.5	0.7	33,33		0.00		0.00	5	166.67	
Oncaea sp	v	61200103	0.5	0.7	33.33		0.00	2	66.67		0.00	
Oncaea borealis	VIf	6120010301	0.6	0.7	0.00		0.00		0.00		0.00	
	VIm		0.3	0.4	0.00		0.00		0.00		0.00	
AMPHIPODA												
Parathemisto pacifica		6170011003	4.0	4.0	0.00		0.00		0.00		0.00	
Cyphocaris sp		61693411	9.0	9.0	0.00		0.00		0.00		0.00	
Hyperiid Juveniles		6170	1.5	2.0	0,00		0.00		0.00		0.00	
Isopod		6150	0,4	0.6	0.00		0.00		0.00	1	33.33	
EUPHAUSIACEA												
Thysanoessa sp		61740209	5.5	8.0	0.00		0.00		0.00		0.00	
Euphausiid nauplii		6174	0.5	0.6	0,00		0.00		0.00		0 . 0 0	
Euphausiid protozoea		6174	0.0	0.5	0.00		0.00		0.00		0.00	
			0s	1.0	0.00		0.00		0.00		0.00	
			1.0	1.5	0.00		0.00		0,00		0.00	
			1.5	2.0	0.00		0.00		0.00		0.00	
			2.0	2.5	0.00		0.00		0.00		0.00	
Euphausiid zoea		6174	2.0	2.5	0.00		0.00		0.00		0.00	
			2.5	3.o	0.00		0.00		0.00		0.00	

Appendix E, Densitles of micro- and macrozooplankton.

		3.0	3.5	0.00		0.00		0.00			0.00
		3.5	4.0	0.00		0.00		0.00			0.00
Euphauslid juveniles	6174	4.5	6.0	0.00		0.00		0.00			0.00
DECAPODA											
Carldea mysls	6179	2.5	7.0	0.00		0.00		0.00			0.00
Crangon mysls	617922	3.0	3.0	0.00		0.00		0.00			0.00
Pandalus sp	617918	11.0	25.0	0.00		0,00		0.00			0.00
Brachyuran zoea	6184	1.5	2.0	0,00	2	66.67		0.00			0.00
Pagurid zoea	61.S306	1.5	6.0	0.00		0.00		0.00			Oslo
ECHINODERMATA											
Bipinnaria larvae	81	0.6	0.7	0.00		0.00		0.00			0.00
Echinopluteus larvae	61	0.6	1.5	0.00		0.00		0.00		1	33.33
Asteroid larvae	8104	0.6	0.6	0.00		0.00		0.00			0.00
TUNICATA											
Oikopleura	84130101	1.5	10.0	0.00		0.00		0.00			0.00
Fritillaria	841302	1.5	2.0	0.00		0.00		0.00			0.00
VERTABRATA											
Fish eggs	8735	3.0	3.0	0.00		0.00		0.00			0.00
Fish larvae	8735	7.0	10.0	0.00		0.00		0.00			0.00
Herring larvae	874701	6.0	9,0	0.00		0.00		0.00			0,00
MISCELLANEOUS											
Small eggs		0.2	0.4	0.00		0.00		0.00			0.00
TOTALS FOR SAMPLE				5900.00	243	8100.00	304	10133.33	579		19300.00

Appendix E. Densities of micro- and macrozooplankton.

SAMPLE NUMBER				66		67		71		72		73		74		78	
Date				21-May		21-May		21-May		21-May		21-May		21-May		21-May	
Site				ROCK		ROCK		BASS		BASS		BASS		BASS		FAIR	
Time				1045		1048		1517		1s20		1525		1s30		2023	
Mesh (urn)				25		25		25		25		25		25		25	
Depth of tow (m)				10		5		30		20		10		5		30	
Volume filtered (m^3)				0.03		0.03		0.03		0.03		0 . 0 3		0.03		0.03	
Fraction enumerated				0.5		1		0.5		0.5		0.25		0.5		0.5	
SPECIES	STAGE	TAXONOMIC CODE	LENGTH m m MIN	MAX	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3
PROTOZOA																		
Foraminifera		3446	0.1	0.2		0.00		0.00		0.00		0.00		0.00		0.00		0,00
CNIDARIA																		
Medusa juvenile		3730	0.1	0.3	8	533.33	19	633.33		0.00		0.00		0.00	1	66.67		0.00
Aegina		37120101	1.0	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Aglantha		37110411	1.0	3.0		0.00		0.00		0.00		0.00		0.00	1	66.67		0.00
			5.0	7.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Euphysa		37030312	1.5	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Halitholus		37031206	5.0	7.0		0.00		0.00	1	66.67		0.00		0.00		0.00		0.00
Obella		37040102	0.6	1,0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Phialidium		37040104	6.0	6.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Rathkea		37031902	1.5	2.0		0.00		0,00		0.00		0.00		0.00		0.00		0.00
Sarsia		37030609	S.0	6.0		0.00		0.00		0.00		0.00		0.00		0.00		0,00
TREMATODA																		
Flatworms		3901	0.6	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0,00
NEMATODA																		
Nematodes		47	0.6	1.5		0.00		0.00		0.00		0.00	1	133.33		0.00		0,00
ROTIFERA																		
Rotifers		45	0.2	0.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
CHAETOGNATHA																		
Sagitta elegans		6300000303	10.0	17.0		0.00		0.00		0.00		0.00		0.00		0.00	1	66.67
Chaetognath juveniles			3.0	7.0		0.00		0.00		0.00		0.00		0.00		0.00	1	66.67
BRYOZOA																		
Cyphonautes larvae		78	0.4	0.8	1	66.67		0.00		0.00		0.00	3	400.00	2	133.33		0.00
PHORONIDA																		
Actinotrocha larvae		77	0.8	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
MOLLUSCA																		
Limacina		S11301O1	0.6	2.0		0.00		0,00		0.00		0.00		0.00	1	66.67		0.00
Pteropod		5113	1.0	1.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Bivalve veliger		55	0.0	0.2		0.00		0.00		0.00		0.00	2	266.67	1	66.67	3	200.00
			0.2	0.4		0.00	2	66.67	1	66.67	3	200.00	3	400.00	1	66.67		0.00
Gastropod veliger		51	0.0	0.2	11	733.33	7	233.33	4	266.67	3	,200,00	2	266.67	8	533,33	2	133.33

Appendix E. Densities of micro- and macrozooplankton.

			0.2	0.4	4	266.67	4	133.33		0.00	2	133.33	8	1066.67	16	1066.67	4	266.67
			0.4	0.6		0.00		0.00		0.00		0.00	1	133.33	5	333.33	1	66.67
POLYCHAETA																		
Spionid larvae		500143	0.8	4.0		0.00		0,00		0.00		0.00		0.00	1	66.67		0.00
Polychaete larvae		5001	0.6	1,S		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Trochophore larvae		5001	0.2	0.6	1	66.67		0.00	2	133.33	4	266<67	3	400.00		0.00		0.00
CRUSTACEA																		
CIRRIPEDIA																		
Nauplii larvae		6130	0.2	0.8	3	200.00	6	200.00	1	66.67		0.00		0.00	2	133.33		0.00
Cypris larvae		6130	0.6	1.2		0.00		0.00		0.00	1	66.67		0.00	1	66.67		0.00
CLADOCERA																		
Evadne		61090501	1.0	1.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Podon		61090502	0.6	1.0	1	66.67		0.00		0.00		0.00		0.00		0.00		0.00
COPEPODA																		
Copepod nauplii		6118	0.0	0.2	49	3266.67	179	5966.67	69	4600,00	57	3800.00	67	8933.33	77	5133.33	101	6733.33
			0.2	0.4	156	10400.00	231	7700.00	114	7600.00	121	8066.67	105	14000.00	160	10666.67	137	9133.33
			0.4	0.6	3	200.00		0.00		0.00	7	466.67		0.00	1	66.67		0.00
			0.6	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Copepodites	I-III	6118	0.2	0.4	1	66.67		0.00	1	66.67		0.00		0.00	1	66.67		0.00
			0.4	0.6	1	66.67	1	33.33	17	1133.33	10	666.67		0.00	1	66.67	4	266.67
			0.6	0.8	1	66.67		0.00	15	1000.00	5	333.33		0.00	3	200.00	3	200.00
Calanus sp	I	61180102	0.5	1.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	II		1.2	1.5		0.00	1	33.33	1	66.67		0.00		0.00		0.00		0.00
	III		1.5	2.4	1	66.67		0.00	2	133.33	1	66.67		0.00		0.00		0.00
Calanus marshallae	W	6118010204	2.3	2.6		0.00		0.00		0.00		0.00		0.00		0.00	1	66.67
	V		2.8	3.8		0.00		0.00		0.00		0.00		0.00		0.00	1	66.67
	Vif		3.7	4.2		0.00		0,00		0.00		0.00		0.00		0.00		0.00
	Vim		3.5	4.0		0.00		0.00		0.00		0.00		0.00		0,00		0.00
Calanus pacificus	v	6118010205	2.5	2.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus sp	Iv	61180104	3.1	4.4		0.00		0.00	1	66.67		0.00		0.00	1	66.67		0.00
Neocalanus cristatus	v	6118010201	7.1	8.9		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus flemingeri	v		4.1	5.2		0.00		0.00	1	66.67		0.00		0.00	1	66.67		0.00
Neocalanus plumchrus	v	6118010206	4.1	5,2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Eucalanus	I	61180301	1.3	1.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	II		1.6	2.0		0.00		0,00		0.00		0.00		0.00		0.00		0.00
	III		2.9	3.0		0.00		0.00	1	66,67		0.00	1	133.33		0.00		0,00
Eucalanus bungii	Iv	6118030102	3.4	3.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	Vf		4.9	5.2		0.00		0,00		0.00		0.00		0.00		0.00		0.00
	Vm		4.5	4.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Paracalanus parvus	v	6118040101	0.7	1.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Pseudocalanus sp. complex	w	61180505	0.9	1.1		0.00	1	33.33	11	733.33	12	800.00	1	133.33	1	66.67	2	133.33
	Vf		1,1	1.3	1	66.67	1	33.33	18	1200,00	11	733.33	7	933.33	2	133.33	2	133.33
	Vm		1,0	1.3	1	66.67		0.00	20	1333.33	14	933,33	8	1066.67	1	66.67	9	600.00
	Vif		1.1	2.0	1	66.67		0.00	27	1800.00	14	933.33	9	1200.00	4	266.67	1	66.67
	Vim		1.1	1.5	1	66.67		0.00	10	666.67	6	400,00	2	266.67		0.00	2	133.33

Appendix E. Densities of micro- and macrozooplankton.

Microcalanus pygmeus pusillus	V	61100504	0.6	0.7		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Metridia sp	I-III	61181602	0.5	1.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Metridia pacifica	IV	6118160214	1.1	1.3		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VI		1.8	2.1		0.00		0.00		0,00		0.00		0.00		0.00		0.00
	Vm		1.5	1.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIf		2.5	2.9		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Centropages abdominalis	Iv	6118170101	0.9	1.1		0.00		0.00		0.00		0.00		0.00	2	133.33		0.00
	v		1.1	1.3		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIf		1.6	2.1		0.00		0.00		0.00		0.00		0.00	1	66.67		0,00
	Vfm		1.4	1.5		0.00		0.00		0.00		0.00		0.00		0.00		0,00
Acartia sp	1-IV	61182901	0.5	0.7		0.00	4	133.33	2	133.33		0.00	4	533.33	16	1066,67	1	66.67
Acartia longiremis	v	6118290103	0.7	1.0		0.00		0.00		0,00		0,00		0.00	5	333.33		0.00
	VIf		1.0	1.3	1	66.67	1	33.33		0.00		0.00		0.00	4	266.67		0.00
	VIm		0.9	1.1	1	66.67	1	33.33		0.00		0.00	1	133.33	2	133.33	1	66.67
Acartia tumida	v	6118290105	1.5	1.8		0.00		0.00		0,00		0.00		0.00		0.00		0.00
	VIf		2.0	2.1		0.00		0.00		0,00		0.00		0.00		0.00		0.00
	VIm		1.7	1.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Monstrilla	VIm	6122	1.2	1.4		0.00		0.00		0,00		0,00		0.00		0.00		0.00
Harpacticoida	v	6119	0.6	0.8	1	66.87	2	66.67		0.00		0.00		0.00		0.00		0.00
	VIf		0.7	1.0		0.00	7	233.33		0.00		0.00		0.00	1	66.67		0.00
Microsetella	VIf	61190901	0.5	0.9		0.00		0.00		0.00		0.00		0.00		0.00		0,00
Oithona Sp	1-IV	61200901	0.4	0.7	13	866.67	36	1200.00	16	1066.67	14	933.33	30	400	52	3466.67	20	1333.33
Oithona atlantica	v	6120090123	0.8	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIf		1.2	1.4		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Oithona similis	v	6120090103	0.6	0.8		0.00	2	66,87	2	133.33		0.00	2	266.67		0.00	3	200.00
	VIf		0.7	1.0	6	400.00	7	233.33	10	666.67	3	200.00	37	4933.33	24	1600.00	13	666.67
	VIm		0.5	0.7		0.00		0.00		0.00		0.00		0.00		0.00	2	133.33
Oncaea sp	v	61200103	0.5	0.7	1	66.67	1	33.33		0.00	1	66.67	1	133.33	1	66.67	1	66.67
Oncaea borealis	VIf	6120010301	0.6	0.7		0.00		0.00		0.00		0.00		0.00		0.00		0,00
	VIm		0.3	0.4		0.00		0.00		0.00		0.00		0.00		0.00		0.00
AMPHIPODA																		
Parathemisto pacifica		6170011003	4.0	4.0		0.00		0.00		0.00		0.00		0,00		0.00		0.00
Cyphocaris sp		61693411	9.0	9.0		0,00		0.00		0.00		0.00		0.00		0.00		0.00
Hyperiid juveniles		6170	1.5	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Isopod		6158	0.4	0.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
EUPHAUSIACEA																		
Thysanoessa sp		61740209	5.5	8.0		0.00		0,00		0.00		0.00		0.00		0.00		0.00
Euphausiid nauplii		6174	0.5	0.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Euphausiid protozoea		6174	0.0	0.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
			0.5	1.0		0.00		0.00		0.00		0.00		0.00	1	66.67		0,00
			1.0	1.5		0.00		0.00		0.00		0.00	1	133.33		0.00		0.00
			1.5	2.0		0.00		0.00		0.00		0.00		0,00		0.00		0,00
			2.0	2.5		0.00		0.00		0.00		0.00	1	133.33		0.00		0,00
Euphausiid zoea		6174	2.0	2.5		0.00		0.00	1	66.67		0.00		0.00		0.00		0.00
			2.5	3.0		0,00		0,00		0.00		0.00		0.00		0.00		0.00

Appendix E. Densities of micro- and macrozooplankton.

		3.0	3.5		0.00		0.00		0,00		0.00		0.00		0,00		0.00
		3.5	4.0		0.00		0.00		0.00		0.00	1	133<33	1	66.67		0.00
Euphausiid juveniles	6174	4.5	6.0		0.00		0.00		0.00		0.00		0.00	1	66.67		0.00
DECAPODA																	
Carldea mysis	6179	2.5	7.0		0.00		0,00		0.00		0.00		0.00		0.00		0.00
Crangon mysis	617922	3.0	3.0		0.00		0.00		0,00		0.00		0.00		0.00		0.00
Pandalus sp	617918	11.0	25.0		0.00		0,00		0,00		0.00		0.00		0.00		0.00
Brachyuran zoea	6184	1.5	2,0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Pagurid zoea	618306	1.5	6.0		0.00		0.00		0.00	1	66.67		0.00	1	66.67	1	66.67
ECHINODERMATA																	
Bipinnaria larvae	81	0.6	0.7		0.00		0,00		0.00		0.00		0.00		0.00		0.00
Echinopluteus larvae	81	0.6	1.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Asteroid larvae	8104	0.6	0.6		0.00		0,00		0.00		0.00		0.00		0.00		0.00
TUNICATA																	
Oikopleura	84130101	1.5	10.0		0.00	1	33.33		0.00		0.00		0.00		0.00	6	400.00
Fritillaria	841302	1,5	2.0		0.00	1	33.33		0.00		0.00		0.00		0.00		0,00
VERTABRATA																	
Fish eggs	8735	3.0	3.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Fish larvae	8735	7.0	10.0		0.00		0,00		0.00		0.00		0.00		0.00		0.00
Herring larvae	674701	6.0	9.0		0.00		0.00		0.00		0.00		0.00		0.00		0,00
MISCELLANEOUS																	
Small eggs		0.2	0.4		0.00		0.00		0.00		0.00		0.00		0.00		0.00
TOTALS FOR SAMPLE				268	17866.67	515	17166.67	346	23200.00	290	19333.33	301	40133.33	405	27000.00	323	21533.33

Appendix E. Densities of micro- and macrozooplankton.

SAMPLE NUMBER					79		80		81		85		86	
Date					21-May		21-May		21-May		30-May		30-May	
Site					FAIR		FAIR		FAIR		TAT		TAT	
Time					2027		2030		2033		1620		1623	
Mesh (urn)					25		25		25		25		25	
Depth of tow (m)					20		10		5		30		20	
Volume filtered (m3)					0.03		0.03		0.03		0.03		0.03	
Fraction enumerated					0.5		0.5		1		0.5		0.5	
SPECIES	STAGE	TAXONOMIC CODE	LENGTH m m MIN	MAX	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3
PROTOZOA														
Foraminifera		3448	0.1	0.2		0.00		0.00		0.00		0.00		0.00
CNIDARIA														
Medusa juvenile		3730	0,1	0.3		0.00		0.00		0.00		0.00		0.00
Aegina		37120101	1.0	2.0		0.00		0.00		0.00		0.00		0.00
Aglantha		37110411	1.0	3.0		0.00		0.00	1	33.33		0.00		0.00
			5.0	7.0		0.00		0.00		0.00		0.00		0.00
Euphysa		37030312	1.5	2.0		0,00		0.00		0.00		0.00		0.00
Halitholus		37031206	5.0	7.0		0.00		0.00		0.00		0.00		0.00
Obella		37040102	0.6	1,0		0.00		0.00		0.00		0.00		0.00
Phialidium		37040104	6.0	6.0		0.00		0.00		0.00		0.00		0.00
Rathkea		37031902	1.5	2.0		0.00		0.00		0.00		0.00		0.00
Sarsia		37030609	5.0	6.0		0.00		0.00	1	33.33		0.00		0.00
TREMATODA														
Flatworms		3901	0.6	1.0		0.00		0.00		0.00		0.00		0.00
NEMATOOA														
Nematodes		47	0.6	1.5		0.00		0.00		0.00		0.00		0.00
ROTIFERA														
Rotifers		45	-0.2	0.6		0.00		0.00	1	33.33		0.00		0.00
CHAETOGNATHA														
Sagitta elegans		6300000303	10.0	17.0		0.00		0.00		0.00		0.00		0.00
Chaetognath Juveniles			3.0	7.0		0.00	2	133.33		0.00		0.00		0.00
BRYOZOA														
Cyphonautes larvae		76	0.4	0.8		0.00	6	400.00	7	233.33		0.00	1	66.67
PHORONIDA														
Actinotrocha larvae		77	0.8	1.0		0.00		0.00		0.00		0.00		0.00
MOLLUSCA														
Limacina		51130101	0.6	2.0		0.00		0.00		0.00	1	66.67		0.00
Pteropod		5113	1.0	1.2		0,00		0.00		0.00		0.00		0.00
Bivalve veliger		55	0.0	0.2	5	333.33	3	200.00	3	100.00		0.00	1	66.67
			0.2	0.4	4	266.67	1	66.67	2	66.67		0.00		0.00
Gastropod veliger		51	0.0	0.2	12	.900.00		0.00	6	200.00	16	1066.67	9	600.00

Appendix E. Densities of micro- and macrozooplankton.

			0.2	0.4	2	133.33	21	1400.00	12	400.00	2	133.33	1	66.67
			0.4	0.6	1	66.67	6	533.33	1	33.33	1	66.67		0.00
POLYCHAETA														
Spionid larvae		500143	0.6	4.0		0.00		0.00		0,00		0.00		0.00
Polychaete larvae		5001	0.6	1.5		0.00		0.00		0.00		0.00		0.00
Trochophore larvae		5001	0.2	0.6		0.00		0.00	2	66.67	1	66.67		0.00
CRUSTACEA														
CIRRIPEDIA														
Nauplii larvae		6130	0.2	0.8		0.00		0.00	2	66.67	1	66.67	1	66.67
Cypris larvae		6130	0.8	1.2		0.00		0.00	1	33.33	1	66.67		0.00
CLADOCERA														
Evadne		61090501	1.0	1.2		0.00		0.00		0.00		0.00		0.00
Podon		61090502	0.6	1.0		0.00		0.00		0.00		0.00		0.00
COPEPODA														
Copepod nauplii		6118	0.0	0.2	73	4866.67	49	3266.67	33	1100<00	48	3200.00	61	4066.67
			0.2	0.4	142	9466.67	92	6133.33	24	800.00	107	7133.33	128	6S33.33
			0.4	0.6		0.00	1	66.67		0.00	1	66.67		0.00
			0.6	1.0		0.00		0.00		0.00		0.00		0.00
Copepodites	I-III	6118	0.2	0.4		0.00	2	133.33		0.00		0.00		0.00
			0.4	0.6	13	666.67	12	600.00	1	33.33	4	266.67	3	200.00
			0.6	0.8	16	1066.67		0.00	2	66,67		0.00	3	200.00
Calanus sp	I	611 EJ0102	0.5	1.1		0.00		0.00		0.00		0.00		0.00
	II		1.2	1.5		0.00		0.00		0.00		0,00		0.00
	m		1.5	2.4		0.00	2	133.33	1	33.33		0.00		0.00
Calanus marshallae	Iv	6116010204	2.3	2.6		0.00	1	66.67	2	66,67	1	66.67		0.00
	v		2.6	3.8	1	66.67	6	400.00	5	166.67	1	66.67		0,00
	VIf		3.7	4.2		0.00		0.00		0.00		0.00		0,00
	VIm		3.5	4.0		0.00		0.00		0.00		0,00		0.00
Calanus pacificus	v	611 E010205	2.5	2.6		0.00		0s30		0.00		0,00		0.00
Neocalanus sp	Iv	61160104	3.1	4.4		0,00	1	66,67		0.00		0.00		0.00
Neocalanus cristatus	v	6116010201	7.1	6.9		0.00		0,00		0.00		0.00		0.00
Neocalanus flemingeri	v		4,1	5.2	1	66,67	2	133.33	2	66.67		0,00		0.00
Neocalanus plumchrus	v	6116010206	4.1	5.2	1	66.67		0.00		0.00		0,00		0.00
Eucalanus	I	61160301	1.3	1.6		0.00		0,00		0.00		0.00		0.00
	II		1.6	2.0		0.00		0.00		0.00		0.00		0.00
	m		2.9	3.0		0,00		0.00		0.00		0.00		0.00
Eucalanus bungii	Iv	6116030102	3.4	3.0		0.00		0.00		0.00		0.00		0.00
	w		4.9	5.2		0.00		0.00		0.00		0.00		0.00
	Vm		4.5	4.6		0.00		0.00		0.00		0.00		0.00
Paracalanus parvus	V	6116040101	0.7	1.1		0.00		0.00		0.00		0.00		0.00
Pseudocalanus sp. complex	IV	61180505	0.9	1.1	6	533.33	7	466.67	4	133.33		0.00	1	66.67
	Vf		1.1	1.3	7	466.67	34	2266.67	15	500.00	1	66.67	3	200.00
	Vm		1.0	1.3	12	000.00	31	2066.67	11	366.67	3	200.00		0.00
	VIf		1.1	2.0	5	333.33	18	1200.00	5	166.67	5	333.33	1	66.67
	VIm		1.1	1.5		0.00	2	133.33		0,00		0.00	1	66.67

Appendix E. Densities of micro- and macrozooplankton.

Microcalanus pygmeus pusillus	V	61180504	0.6	0.7		0.00		0.00		0.00		0.00		0.00
Metridia sp	I-III	61181602	0.5	1.1		0.00		0.00		0.00		0.00		0.00
Metridia pacifica	Iv	6118160214	1.1	1.3		0.00		0.00		0.00		0.00		0.00
	w		1.8	2.1		0.00		0.00		0.00		0.00		0.00
	Vm		1.5	1.8		0.00		0.00		0,00	1	66.67		0.00
	VIf		2.5	2.9		0.00		0.00		0.00		0.00		0.00
Centropages abdominalis	Iv	6118170101	0.9	1.1		0,00		0.00		0.00		0.00		0.00
	v		1.1	1.3		0.00		0.00	2	66.67		0.00		0.00
	VIf		1.6	2.1		0,00		0.00		0.00		0.00		0.00
	Vim		1.4	1,5		0,00		0.00		0.00		0.00	1	66.67
Acartia sp	I-IV	61182901	0.5	0.7	3	200.00	13	066.67	16	533.33		0.00		0.00
Acartia longiremis	v	6118290103	0.7	1.0		0.00	3	200.00	4	133.33		0.00		0.00
	VIf		1.0	1.3	1	66.67	1	66.67	7	233.33		0.00	1	66.67
	VI m		0.9	1.1		0.00	3	200.00	5	166.67	1	66.67	1	66.67
Acartia tumida	v	6118290105	1.5	1.6		0.00		0.00		0.00		0.00		0.00
	VIf		2.0	2.1		0.00		0.00		0.00		0.00		0.00
	VIm		1.7	1.8		0.00		0.00		0.00		0.00		0.00
Monstrilla	VIm	6122	1,2	1.4		0.00		0.00		0.00		0.00		0.00
Harpacticoida	v	6119	0.6	0.6		0.00		0.00		0.00		0.00		0.00
	VIf		0.7	1.0		0.00		0.00		0.00		0.00		0.00
Microsetella	VIf	61190901	0.5	0.9		0.00		0.00		0.00		0.00		0.00
Oithona sp	1-IV	61200901	0.4	0.7	13	866.67	28	1866.67	9	300.00	30	2000.00	30	2000.00
Oithona atlantica	v	6120090123	0.8	1.0		0.00		0.00		0.00		0.00		0.00
	VIf		1.2	1.4		0.00		0.00		0.00		0.00		0.00
Oithona similis	v	6120090103	0,6	0.6	6	400.00	6	400.00		0.00	13	866.67	1	66.67
	VIf		0.7	1.0	4	266.67	20	1333.33	7	233.33	7	466.67	9	600.00
	VIm		0.5	0.7		0.00	2	133.33		0.00		0.00		0.00
Oncaea sp	v	61200103	0.5	0.7		0.00	2	133.33		0,00		0.00		0.00
Oncaea borealis	VIf	6120010301	0.6	0.7		0.00		0.00		0,00		0.00		0.00
	VIm		0.3	0.4		0.00		0.00		0.00		0.00		0.00
AMPHIPODA														
Parathemisto pacifica		6170011003	4.0	4.0		0.00		0.00		0.00		0.00		0.00
Cyphocaris sp		61693411	9.0	9.0		0.00		0.00		0.00		0.00		0.00
Hyperiid Juveniles		6170	1,5	2.0		0.00		0.00		0.00	1	66.67		0.00
Isopod		6156	0.4	0.6		0.00		0.00		0.00		0.00		0.00
EUPHAUSIACEA														
Thysanoessa sp		61740209	5.5	6.0		0.00		0.00		0.00		0.00		0.00
Euphausiid nauplii		6174	0.5	0.6		0.00		0.00		0.00		0.00		0.00
Euphausiid protozoea		6174	0.0	0.5		0.00		0,00		0,00		0.00		0.00
			0.5	1.0		0.00		0.00		0.00		0.00		0.00
			1.0	1.5		0.00		0.00		0.00		0.00		0.00
			1.5	2.0		0.00		0.00		0.00		0.00		0.00
			2.0	2.5		0.00		0.00		0.00		0.00		0.00
Euphausiid zoea		6174	2.0	2.5		0.00		0.00		0.00		0.00		0.00
			2.5	3.0		0.00		0.00	1	33.33		0.00		0.00

Appendix E. Densities of micro- and macrozooplankton.

		3.0	3.5	1	66.67	2	133.33		0.00		0.00		0.00
		3.5	4.0		0.00	2	133.33		0.00		0.00		0.00
Euphauslid juveniles	6174	4.5	6.0		0.00		0.00		0.00		0.00		0.00
DECAPODA													
Carldea mysis	6179	2.5	7.0		0.00		0.00		0.00		0,00		0.00
Crangon mysis	617922	3.0	3.0		0.00		0.00		0.00	1	66.67		0.00
Pandalus sp	617918	11.0	25.0		0.00		0.00		0.00		0.00		0.00
Brachyuran zoea	6164	1.5	2,0		0.00		0.00		0.00		0.00		0.00
Pagurld zoea	618306	1.5	6,0		0.00		0.00		0.00		0.00		0.00
ECHINODERMATA													
Bipinnaria larvae	81	0.6	0.7		0.00	1	66.67		0.00		0.00		0.00
Echinopluteus larvae	81	0.6	1.5		0.00		0.00	2	66.67		0.00		0.00
Asteroid larvae	8104	0.6	0.6		0.00		0.00		0.00		0.00		0.00
TUNICATA													
Olkopleura	84130101	1,5	10.0	4	266.67	1	66.67	6	200.00	1	66.67		0.00
Fritillaria	.941302	1,5	2,0		0.00		0.00		0.00		0.00		0.00
VERTABRATA													
Fish eggs	8735	3.0	3.0		0.00		0.00		0,00		0.00		0.00
Fish larvae	8735	7,0	10,0		0.00		0,00		0.00		0.00		0.00
Herring larvae	874701	6.0	9.0		0.00		0.00		0.00		0.00		0.00
MISCELLANEOUS													
Small eggs		0.2	0.4		0.00		0.00		0.00		0.00		0.00
TOTALS FOR SAMPLE				33S	22333.33	385	25666.67	203	6766.67	249	16600.00	257	17133.33

Appendix E. Densities of micro- and macrozooplankton.

SAMPLE NUMBER				87		88		92		93		94		95		99	
Date				30-May		30-May		30-May		30-May		30-May		30-May		29-May	
Site				TAT		TAT		ROCK		ROCK		ROCK		ROCK		BASS	
Time				1625		1627		930		933		93s		937		1740	
Mesh (urn)				25		2s		2s		25		2s		25		2s	
Depth of tow (m)				10		5		30		20		10		5		30	
Volume filtered (m^3)				0,03		0.03		0.03		0.03		0.03		0.03		0.03	
Fraction enumerated				0.5		0.25		1		1		1		0,5		1	
SPECIES	STAGE	TAXONOMIC COOE	LENGTH m m MIN	MAX	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STt4	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3
PROTOZOA																		
Foraminifera		3446	0.1	0.2		0.00		0.00		0.00		0.00	1	33.33	1	66.67		0.00
CNIDARIA																		
Medusa Juvenile		3730	0.1	0.3		0.00	7	933.33		0.00		0.00		0.00		0.00		0.00
Aegina		37120101	1.0	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Aglantha		37110411	1.0	3.0		0.00		0.00		0.00		0.00		0.00	1	66.67		0.00
			5.0	7.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Euphysa		37030312	1.5	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0,00
Hallthoius		37031206	5.0	7.0		0.00		0.00		0.00		0.00		0.00		0.00		0,00
Obella		37040102	0.6	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Phialidium		37040104	6.0	6.0		0.00		0.00		0.00		0.00		0,00		0.00		0.00
Rathkea		37031902	1.5	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Sarsia		37030609	S.0	6.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
TREMATODA																		
Flatworms		3901	0.6	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
NEMATODA																		
Nematodes		47	0.8	1.S		0,00		0.00	1	33.33		0.00		0.00		0.00		0.00
ROTIFERA																		
Rotifers		45	0.2	0.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
CHAETOGNATHA																		
Sagitta elegans		8300000303	10.0	17,0		0.00		0.00		0.00		0.00		0.00		0.00		0s)0
Chaetognath Juveniles			3.0	7.0		0.00		0.00		0.00		0,00		0.00		0.00		0.00
BRYOZOA																		
Cyphonautes larvae		76	0.4	0.8	2	133.33	1	133.33		0.00		0.00		0.00		0.00		0.00
PHORONIDA																		
Actinotrocha larvae		77	0.6	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
MOLLUSCA																		
Limacina		51130101	0.6	2.0	1	66.67		0.00		0.00		0.00		0.00		0.00		0.00
Pteropod		5113	1.0	1.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Bivalve veliger		55	0.0	0.2	11	733.33	12	1600.00	2	66.67		0.00		0.00		0.00		0.00
			0.2	0.4		0.00		0.00	1	33.33		0.00	4	133.33		0.00	2	66.67
Gastropod veliger		51	0.0	0.2	67	4466,67	36	5066.67		0.00		0.00	20	666.67	45	3000.00		0.00

Appendix E, Densities of micro- and macrozooplankton.

			0.2	0.4		0.00	2	266.67		0,00		0.00	12	400.00	12	800.00	1	33.33
			0.4	0.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
POLYCHAETA																		
Spionid larvae		500143	0.8	4.0		0.00		0.00		0.00		0.00		0.00	1	66.67		0.00
Polychaete larvae		5001	0.6	1.5		0.00		0.00		0.00		0.00	6	200.00		0.00		0.00
Trochophore larvae		5001	0.2	0.6	2	133,33		0.00	1	33,33	3	100.00		0.00		0.00		0.00
CRUSTACEA																		
CIRRIPEDIA																		
Nauplii larvae		6130	0.2	0.8		0.00	4	533<33		0.00		0.00	4	133,33	2	133.33		0.00
Cypris larvae		6130	0.8	1.2	1	66.67		0.00		0.00		0.00		0.00		0.00		0.00
CLADOCERA																		
Evadne		61090501	1.0	1.2		0.00	1	133.33		0.00		0.00		0.00		0.00		0.00
Podon		61090502	0.6	1.0		0.00		0.00		0.00		0.00	1	33.33	1	66.67		0.00
COPEPODA																		
Copepod nauplii		6118	0.0	0.2	120	8000,00	71	9466.67	52	1733.33	180	6000.00	186	6200.00	57	3600.00	34	1133.33
			0.2	0.4	207	13800.00	130	16400.00	79	2633,33	82	2733.33	181	6033,33	151	10066.67	50	1666.67
			0.4	0.6		0.00	2	266.67		0.00		0.00		0.00		0.00		0.00
			0.6	1.0		0.00		0.00		0.00		0.00		0.00		0.00	2	66.67
Copepodites	I-III	6116	0.2	0.4		0.00		0.00	3	100.00	5	166.67	3	100.00		0.00	7	233.33
			0.4	0.6		0.00	3	400.00	21	700.00	25	833.33	37	1233.33	4	266.67	3	100.00
			0.6	0.6		0.00		0.00	10	333.33	16	533.33	16	600.00	3	200.00		0,00
Calanus sp	I	61160102	0.5	1.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	II		1.2	1.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	III		1.5	2.4		0,00		0.00		0.00		0.00		0.00		0.00		0.00
Calanus marshallae	Iv	6118010204	2.3	2.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	v		2.8	3.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIf		3.7	4.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIm		3.5	4.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Calanus pacificus	v	6118010205	2.5	2.8		0.00		0.00		0.00		0.00		0.00		0.00		0,00
Neocalanus sp	Iv	61180104	3.1	4.4		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus cristatus	v	6118010201	7.1	6.9		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus flemingeri	v		4.1	5.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus plumchrus	v	6118010206	4.1	5.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Eucalanus	I	61180301	1.3	1.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	II		1.6	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	III		2.9	3.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Eucalanus bungii	Iv	6118030102	3.4	3.8		0.00		0.00		0.00		0.00	1	33.33		0,00		0.00
	vi		4.9	5.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	Vm		4.5	4.6		0.00		0.00		0,00		0.00		0,00		0.00		0.00
Paracalanus parvus	v	6118040101	0.7	1.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Pseudocalanus sp. complex	Iv	61180505	0.9	1.1		0 . 0 0		0.00	7	233,33	5	166.67	4	133.33		0.00		0.00
	Vf		1.1	1.3	1	66.67		0.00	5	166,67	3	100.00		0.00	1	66.67	2	66.67
	Vm		1.0	1.3		0.00	1	133,33	4	133.33	3	100.00	1	33.33		0.00	1	33,33
	Vlf		1.1	2.0		0.00	1	133.33	3	100.00	4	133.33	2	66.67		0.00	2	66,67
	Vlm		1,1	1.5		0.00		0.00	2	66.67	2	66.67		0.00		0.00		0.00

Appendix E. Densities of micro- and macrozooplankton.

Microcalanus pygmeus pusilus	V	61180504	0.6	0.7		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Metridia sp	I-m	61181602	0.5	1.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Metridia pacifica	Iv	6118160214	1.1	1.3		0.00		0.00		0.00	1	33,33		0.00		0.00		0.00
	w		1.8	2.1		0.00		0,00		0.00		0.00		0.00		0.00		0.(V3
	Vm		1.5	1.5		0.00		0.00		0.00		0.00		0.00		0.00	3	100.00
	Vlf		2.5	2.9		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Centropages abdominalis	Iv	6118170101	0.9	1.1	2	133.33		0.00		0.00		0.00	1	33.33		0.00		0.00
	v		1,1	1.3		0.00	1	133.33		0.00		0.00		0.00		0,00		0.00
	Vlf		1.6	2.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	Vlm		1.4	1.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Acartia sp	I-IV	61182901	0.5	0.7	13	866.67		0.00		0.00		0.00		0.00	2	133.33	1	33.33
Acartia longiremis	v	6118290103	0.7	1.0	4	266.67	5	866.67		0.00	2	66.67	1	33.33	2	133.33		0.00
	Vlf		1.0	1.3	2	133.33	1	133.33		0.00	3	100.00		0.00		0.00	1	33.33
	Vim		0.9	1.1	3	200.00	3	400.00		0.00	1	33.33	3	100.00		0.00	1	33.33
Acartia tumida	v	6116290105	1.5	1.8		0.00		0.00		0.00		0.00		0.00		0.00		0,00
	Vlf		2.0	2.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	Vim		1.7	1.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Monstrilla	Vlm	6122	1.2	1.4		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Harpacticoida	v	6119	0.6	0.8		0.00		0.00	2	66.67	1	33.33		0.00		0.00		0.00
	Vlf		0.7	1.0		0.00		0.00		0.00		0.00		0.00		0.00	1	33.33
Microsetella	Vlf	61190901	0,5	0.9		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Oithona sp	1-IV	61200901	0.4	0.7	49	3266.67	22	2933.33	19	633.33	42	1400.00	64	2133.33	22	1466.67	5	166,67
Oithona atlantica	v	6120090123	0.8	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	Vlf		1.2	1.4		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Oithona similis	v	6120090103	0.6	0.8		0.00		0.00	6	200.00	a	266.67	4	133.33	2	133.33	1	33.33
	Vlf		0.7	1.0	5	333.33		0.00	20	666,67	29	966.67	24	800.00	3	200.00	4	133.33
	Vlm		0.5	0.7		0.00		0.00	3	100,00	1	33.33		0.00		0.00		0.00
Oncaea sp	v	61200103	0.5	0.7		0.00		0.00	4	133.33	5	166.67	1	33.33		0.00	3	100.00
Oncaea borealis	Vlf	612W103O1	0.6	0.7		0.00		0.00	1	33.33	1	33.33		0.00		0.00		0,00
	Vlm		0.3	0.4		0.00		0.00		0.00		0.00		0.00		0.00		0.00
AMPHIPODA																		
Parathemisto pacifica		617OQ11OO3	4,0	4.0		0.00		0.00		0,00		0.00		0.00		0.00		0.00
Cyphocaris sp		61693411	9.0	9.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Hyperiid juveniles		6170	1.5	2,0		0.00		0.00		0.00		0.00		0.00		0.00		0,00
Isopod		6158	0.4	0.6		0.00		0.00		0.00		0.00		0.00		0.00		0,00
EUPHAUSIACEA																		
Thysanoessa sp		61740209	5,5	8,0		0.00		0.00		0.00		0.00		0.00		0,00		0.00
Euphausiid nauplii		6174	0.5	0.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Euphausiid protozoea		6174	0.0	0.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
			0.5	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0,00
			1.0	1.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
			1,5	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0,00
			2.0	2.5		0.00		0.00		0.00		0.00		0.00		0.00		0,00
Euphausiid zoea		6174	2,0	2.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
			2.5	3.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00

Appendix E. Densities of micro- and macrozooplankton.

		3.0	3.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
		3.5	4.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Euphausiid Juveniles	6174	4.5	6.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
DECAPODA																								
Carideа mysis	6179	2.5	7.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Crangon mysis	617922	3.0	3.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Pandalus sp	617918	11.0	25.0		0,00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Brachyuran zoea	6184	1.5	2.0		0.00	1	133.33		0.00		0.00	1	33.33		0.00		0.00		0.00		0.00		0.00	
Pagurid zoea	618306	1.5	6.0		0.00		0,00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
ECHINODERMATA																								
Bipinnaria larvae	81	0.6	0.7		0,00		0.00		0,00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Echinopluteus larvae	81	0.6	1.5		0.00		0,00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Asteroid larvae	6104	0.6	0.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
TUNICATA																								
Oikopleura	64130101	1.5	10.0		0.00		0.00	1	33.33	1	33.33		0.00	1	66.67		0.00							
Fritillaria	641302	1.5	2.0		0.00		0.00		0.00	2	66.67		0.00	1	66.67		0.00							
VERTABRATA																								
Fish eggs	8735	3.0	3.0		0.00		0.00		0.00		0,00		0.00		0.00		0.00							
Fish larvae	8735	7.0	10.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00							
Herring larvae	874701	6.0	9.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00							
MISCELLANEOUS																								
Small eggs		0.2	0.4		0.00		0.00		0.00		0.00		0,00		0.00		0.00							
TOTALS FOR SAMPLE				490	32666.67	314	41866.67	247	8233.33	425	14166.67	580	19333.33	312	20800.00	124	4133.33							

Appendix E. Densities Of micro- and macrozooplankton.

SAMPLE NUMBER				100		101		102	
Date				29-May		29-May		29-May	
Stte				BASS		BASS		BASS	
Time				1745		1750		1752	
Mesh (um)				25		25		2s	
Depth of tow (m)				20		10		5	
Volume filtered (m^3)				0.03		0.03		0.03	
Fraction enumerated				0.s		0.25		0.s	
SPECIES	TAXONOMIC STAGE COOE	LENGTH m m MIN	MAX	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3
PROTOZOA									
Foraminifera	3448	0.1	0.2		0.00	1	133.33		0.00
CNIDARIA									
Medusa juvenile	3730	0.1	0.3		0.00	1	133.33		0.00
Aegina	37120101	1.0	2.0		0.00		0.00		0.00
Aglantha	37110411	1.0	3.0		0,00		0.00		0.00
		5.0	7.0		0.00		0.00		0.00
Euphysa	37030312	1.5	2.0		0.00		0.00		0.00
Halitholus	37031206	5.0	7.0		0.00		0.00		0.00
Obelia	37040102	0.6	1.0		0.00		0,00		0.00
Phialidium	37040104	6,0	6.0		0.00		0.00		0.00
Rathkea	37031902	1,5	2.0		0.00		0.00		0,00
Sarsia	37030609	S.0	6,0		0.00		0,00		0.00
TREMATOOA									
Flatworms	3901	0.6	1.0		0.00		0.00		0.00
NEMATOOA									
Nematodes	47	0.6	1.5		0,00		0.00		0.00
ROTIFERA									
Rotifers	45	0.2	0.6		0.00		0.00		0.00
CHAETOGNATHA									
Sagitta elegans	6300000303	10.0	17.0		0.00		0.00		0.00
Chaetognath juveniles		3.0	7.0	2	133.33		0.00		0.00
BRYOZOA									
Cyphonautes larvae	76	0.4	0.0		0.00	5	666.67	3	200.00
PHORONIDA									
Actinotrocha larvae	77	0.8	1.0		0.00		0.00		0.00
MOLLUSCA									
Umacina	S11301O1	0.6	2.0		0.00		0.00	2	133.33
Pteropod	5113	1.0	1.2		0.00		0.00		0.00
Bivalve veliger	55	0.0	0.2		0.00		0.00		0,00
		0.2	0.4	1	66.67		0.00	3	200.00
Gastropod veliger	51	0.0	0.2	9	600.00	21	2600.00	9	600.00

Appendix E. Densities of micro- and macrozooplankton.

		i										
			0.2	0.4	1	66.67	3	400.00	1	66.67
			0.4	0.6		0,00		0.00		0.00
POLYCHAETA										
Spionid larvae		500143	0.8	4.0		0.00		0.00	1	66.67
Polychaete larvae		5001	0.6	1.5		0.00		0.00		0.00
Trochophore larvae		5001	0.2	0.6	1	66.67		0.00		0.00
CRUSTACEA										
CIRRIPEDIA										
Nauplii larvae		6130	0.2	0.6		0.00		0.00		0.00
Cypris larvae		6130	0.8	1.2		0.00		0.00		0.00
CLADOCERA										
Evadne		61090501	1.0	1,2		0.00		0.00		0.00
Podon		61090502	0.6	1.0		0.00		0.00		0.00
COPEPODA										
Copepod nauplii		6118	0.0	0.2	66	4400,00	83	11066.67	61	5400.00
			0.2	0.4	108	7200,00	107	14266.67	114	7600.00
			0.4	0.6		0.00		0,00		0.00
			0.6	1.0		0.00		0.00		0.00
Copepodites	HII	6118	0.2	0.4	1	66.67		0.00		0.00
			0,4	0.6	16	1200.00	1	133.33		0.00
			0.6	0.8	12	800.00		0.00		0.00
Calanus sp	I	61180102	0.5	1.1		0.00		0.00		0.00
	II		1.2	1.5		0.00		0.00		0.00
	III		1.5	2.4		0.00		0.00		0.00
Calanus marshallae	w	6118010204	2.3	2.6		0.00		0.00		0.00
	V		2.8	3.8		0.00		0.00		0.00
	VIf		3.7	4.2		0,00		0.00		0.00
	VIm		3.5	4.0		0.00		0.00		0.00
Calanus pacificus	v	6116010205	2.5	2,6		0.00		0.00		0.00
Neocalanus sp	Iv	61160104	3.1	4.4		0.00		0.00		0.00
Neocalanus cristatus	v	6116010201	7.1	6.9		0.00		0.00		0.00
Neocalanus flemingeri	v		4.1	5.2		0.00		0.00		0.00
Neocalanus plumchrus	v	6116010206	4.1	5.2		0.00		0.00		0.00
Eucalanus		61180301	1.3	1.6		0.00		0.00		0.00
	II		1.6	2.0	1	66.67		0.00		0.00
	III		2.9	3.0		0.00		0.00		0.00
Eucalanus bungii	Iv	6118030102	3.4	3.6		0.00		0.00		0.00
	Vf		4.9	5.2		0.00		0.00		0.00
	Vm		4.5	4.8		0.00		0.00		0.00
Paracalanus parvus	v	6116040101	0.7	1.1		0,00		0.00		0.00
Pseudocalanus sp. complex	Iv	61180505	0.9	1.1	9	600.00	2	266.67		0.00
	Vf		1.1	1.3	7	466.67	1	133.33		0.00
	Vm		1.0	1.3	8	533.33		0.00		0.00
	VIf		1.1	2.0	6	400.00	1	133.33		0.00
	VIm		1.1	1.5	1	66.67		0.00		0.00

Appendix E. Densities of micro- and macrozooplankton.

Microcalanus pygmeus pusillus	V	61180504	0.6	0.7	2	133.33		0.00			0.00
Metridia sp	I-III	61181602	0.5	1.1		0.00		0.00			0.00
Metridia pacifica	Iv	6118160214	1.1	1.3		0.00		0.00			0.00
	Vf		1.8	2.1	3	200.00		0.00			0.00
	Vm		1.5	1.8	1	66.67		0,00			0.00
	VIf		2.5	2.9		0.00		0.00			0.00
Centropages abdominalis	Iv	6118170101	0.9	1.1		0.00		0.00			0.00
	v		1.1	1.3		0.00		0.00			0.00
	VIf		1.6	2.1		0.00		0.00			0.00
	Vfm		1.4	1.5		0.00		0.00			0.00
Acartia ep	I-IV	61182901	0.5	0.7	5	333.33	3	400.00	1		66.67
Acartia longiremis	v	6118290103	0.7	1.0		0.00	1	133.33			0.00
	VIf		1.0	1,3		0.00		0.00			0.00
	VIm		0.9	1.1	2	133.33	1	133.33			0,00
Acartia tumida	v	6118290105	1.5	1.8		0.00		0.00			0.00
	VIf		2.0	2.1		0.00		0.00			0.00
	VIm		1.7	1.8		0.00		0.00			0.00
Monstrilla	VIm	6122	1.2	1.4		0.00		0.00			0.00
Harpacticoida	v	6119	0.6	0.8		0.00		0.00			0.00
	VIf		0.7	1,0		0.00		0,00			0.00
Microsetella	VIf	61190901	0.5	0.9		0.00		0.00			0.00
Oithona sp	I-IV	61200901	0.4	0.7	45	3000.00	23	3066.67	12		800.00
Oithona atlantica	v	6120090123	0.6	1.0		0.00		0.00			0.00
	VIf		1.2	1.4		0.00		0.00	1		66.67
Oithona similis	v	6120090103	0.6	0.8	4	266.67	5	666.67	3		200.00
	VIf		0.7	1.0	11	733.33	1	133.33	1		66.67
	VIm		0.5	0.7	2	133.33		0.00			0.00
Oncaea sp	v	61200103	0.5	0.7	2	133.33		0.00			0,00
Oncaea borealis	VIf	6120010301	0.6	0.7		0.00		0,00			0.00
	VIm		0.3	0.4		0.00		0.00			0,00
AMPHIPODA											
Parathemisto pacifica		6170011003	4.0	4.0		0.00		0.00			0.00
Cyphocaris sp		61693411	9.0	9.0		0.00		0.00			0.00
Hyperiid juveniles		6170	1.5	2.0	3	200.00		0.00			0.00
Isopod		6156	0.4	0.6		0.00		0.00			0.00
EUPHAUSIACEA											
Thysanoessa sp		61740209	5.5	&O		0.00		0.00			0.00
Euphausiid nauplii		6174	0.5	0.6		0.00		0.00			0.00
Euphausiid protozoea		6174	0.0	0.5		0.00		0.00			0.00
			0.5	1.0		0.00		0.00			0.00
			1.0	1.5		0.00		0.00			0.00
			1.5	2.0		0.00		0.00			0.00
			2.0	2.5		0.00		0.00			0.00
Euphausiid zoea		6174	2.0	2.S		0.00		0.00			0.00
			2.s	3.0		0.00		0.00			0.00

Appendix E. Densities of micro- and macrozooplankton.

		3.0	3.5		0.00		0.00		0.00
		3.5	4,0		0.00		0.00		0.00
Euphausiid juveniles	6174	4.5	6.0		0.00		0.00		0.00
DECAPODA									
Caridea mysis	6179	2.5	7.0		0.00		0.00		0.00
Crangon mysis	617922	3.0	3.0		0.00		0.00		0.00
Pandalus sp	617918	11.0	25.0		0.00		0.00		0.00
Brachyuran zoea	6164	1.5	2.0		0.00		0.00		0.00
Pagurid zoea	618306	1.5	6.0		0.00	1	133.33		0.03
ECHINODERMATA									
Bipinnaria larvae	81	0.6	0.7		0.00		0.00		0.00
Echinopluteus larvae	81	0.6	1.5		0.00		0.00		0.00
Asteroid larvae	8104	0.6	0.6		0.00		0.00		0.00
TUNICATA									
Oikopleura	84130101	1.5	10.0		0.00	1	133.33	1	66.67
Fritillaria	841302	1.5	2.0		0.00		0.00		0.00
VERTABRATA									
Fish eggs	6735	3.0	3,0		0.00		0.00		0.00
Fish larvae	8735	7.0	10.0		0.00		0.00		0.00
Herring larvae	874701	6.0	9,0		0.00		0.00		0.00
MISCELLANEOUS									
Small eggs		0.2	0.4	233	15533.33		0.00		0.00
TOTALS FOR SAMPLE				564	37600.00	262	34933.33	233	15533.33

Appendix E. Densities of micro- and macrozooplankton.

SAMPLE NUMBER					106		107		108		109		113		114		115	
Date					29- May		29-May		29-May		29-May		7-Jun		7-Jun		7-Jun	
Site					FAIR		FAIR		FAIR		FAIR		FAIR		FAIR		FAIR	
Time					1345		1350		13s3		135s		1305		1310		1314	
Mesh (urn)					25		25		25		25		25		25		25	
Depth of tow (m)					30		20		10		5		30		20		10	
Volume filtered (m3)					0.03		0.03		0.03		0.03		0.03		0,03		0.03	
Fraction enumerated					1		0.5		0.5		0.5		1		0,25		0.25	
SPECIES	STAGE	TAXONOMIC CODE	LENGTH mm MIN	MAX	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3
PROTOZOA																		
Foraminifera		3448	0.1	0.2	2	66.67		0.00	1	66.67		0.00		0.00		0.00		0.00
CNIDARIA																		
Medusa juvenile		3730	0.1	0.3		0.00		0.00		0.00	1	66.67		0.00		0.00	1	133.33
Aegina		37120101	1.0	2,0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Aglantha		37110411	1.0	3.0		0.00		0.00		0,00		0.00		0.00		0.00		0.00
			5.0	7.0		0.00		0,00		0.00		0.00		0.00		0.00		0.00
Euphysa		37030312	1.5	2.0		0.00		0.00	1	66.67		0.00		0.00		0.00		0.00
Halitholus		37031206	5.0	7.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Obelia		37040102	0.6	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Phialidium		37040104	6.0	6.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Rathkea		37031902	1.5	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0,00
Sarsia		37030609	5.0	6.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
TREMATODA																		
Flatworms		3901	0.6	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
NEMATODA																		
Nematodes		47	0.8	1.s		0.00	1	66.67		0.00		0.00		0.00		0.00		0,00
ROTIFERA																		
Rotifers		4S	0.2	0.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
CHAETOGNATHA																		
Sagitta elegans		8300000303	10.0	17.0		0.00	1	66.67		0.00		0.00		0.00		0.00		0.00
Chaetognath Juveniles			3.0	7,0		0.00		0,00	2	133.33		0.00		0.00	1	133.33		0.00
BRYOZOA																		
Cyphonautes larvae		78	0.4	0.8		0.00		0.00	7	466.67	12	600.00		0.00		0.00		0.00
PHORONIDA																		
Actinotrocha larvae		77	0.8	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
MOLLUSCA																		
Limacina		51130101	0.6	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Pteropod		5113	1.0	1.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Bivalve veliger		5s	0.0	0.2		0.00		0,00	2	133.33	1s	1000.00		0.00		0.00	20	2666.67
			0.2	0.4		0.00		0.00	4	266.67	11	733.33		0.00	4	533.33	5	666.67
Gastropod veliger		51	0.0	0.2	3	100.00	16	1066.67	10	666.67	16	1200,00	25	833.33	7s	10000.00	132	17600.00

Appendix E. Densities of micro- and macrozooplankton.

			0.2	0.4		0.00	7	466,67	4	266.67	6	400,00	5	166.67	1	133.33	12	1600.00
			0.4	0.6		0.00		0.00		0.00		0.00	2	66.67		0.00	1	133.33
POLYCHAETA																		
Spionid larvae		500143	0.8	4.0		0.00		0.00		0,00		0.00		0.00		0.00		0.00
Polychaete larvae		5001	0.6	1.5		0.00		0.00		0.00	9	600.00		0.00		0.00		0.00
Trochophore larvae		5001	0.2	0.6		0.00		0.00	1	66.67		0,00		0.00		0.00		0.00
CRUSTACEA																		
CIRRIPEDIA																		
Nauplii larvae		6130	0.2	0.8	1	33.33	1	66.67	1	66.67	2	133.33		0.00	1	133.33		0.00
Cypris larvae		6130	0.8	1.2		0.00	1	66.67		0.00		0.00		0.00		0.00		0,00
CLADOCERA																		
Evadne		61090501	1.0	1.2		0.00		0.00		0.00		0.00	1	33.33		0.00		0.00
Podon		61090502	0.6	1.0		0.00		0.00		0.00		0.00		0.00		0,00		0.00
COPEPODA																		
Copepod nauplii		6118	0.0	0.2	73	2433.33	91	6066.67	127	8466.67	238	15866.67	112	3733.33	52	6933.33	34	4533.33
			0.2	0.4	82	2733.33	166	11200.00	92	6133.33	132	0800.00	51	1700.00	61	8133.33	90	12000,00
			0.4	0.6		0.00		0.00		0.00		0.00	1	33.33	3	400.00		0.00
			0.6	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Copepodites	I-III	6116	0.2	0.4		0.00		0.00		0.00		0.00		0.00		0.00	1	133.33
			0.4	0.6	9	300.00	10	666.67	2	133.33		0.00	2	66.67	3	400.00	5	666.67
			0.6	0.8	2	66.67	9	600.00	1	66.67		0.00	1	33.33	8	1066.67	6	000.00
Calanus 5P	I	61180102	0,5	1,1		0.00		0,00		0.00		0.00		0.00		0.00		0.00
	II		1.2	1.5	1	33.33		0.00		0.00		0.00		0.00		0.00		0.00
	III		1.5	2.4		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Calanus marshallae	Iv	6116010204	2.3	2.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	v		2.8	3.8		0.00		0.00		0.00		0,00		0.00		0.00		0.00
	VIf		3.7	4.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIm		3.5	4.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Calanus pacificus	v	6118010205	2.5	2.8		0.00		0,00		0.00		0.00		0.00		0.00		0.00
Neocalanus sp	Iv	61160104	3.1	4.4		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus cristatus	v	6118010201	7.1	8.9		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus flemingeri	v		4.1	5.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus plumchrus	v	6118010206	4.1	5.2		0.00		0.00		0.00		0.00		0.00	1	133.33		0.00
Eucalanus	I	61180301	1.3	1.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	II		1.6	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	III		2.9	3.0		0.00		0.00		0.00		0.00	1	33.33	1	133.33		0.00
Eucalanus bungii	Iv	6116030102	3.4	3..9		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	Vf		4.9	5.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	Vm		4.5	4.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Paracalanus parvus	v	6118040101	0,7	1.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Pseudocalanus SP. complex	Iv	61160505	0.9	1.1	1	33,33	4	266.67	1	66.67		0.00		0.00	6	800.00		0.00
	w		1.1	1,3	5	166.67	6	400,00	2	133.33	2	133.33	1	33.33	4	533.33	1	133.33
	Vm		1.0	1.3	4	133.33	11	733.33	1	66.67	3	200.00		0.00	3	400.00	1	133.33
	VIf		1.1	2.0	8	266.67	7	466.67	1	66.67		0.00	5	166.67	2	266.67	2	266.67
	VIm		1.1	1.5		0.00		0.00		0.00		0.00		0.00	1	133.33		0.00

Appendix E. Densities of micro- and macrozooplankton.

Microcalanus pygmeus pusillus	V	61180504	0.6	0.7		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Metridia sp	I-III	61181602	0.5	1.1		0,00		0.00		0.00		0.00		0.00		0.00		0.00
Metridia pacifica	Iv	6118160214	1.1	1.3		0.00		0.00		0,00		0.00		0.00		0.00		0.00
	Vf		1.8	2.1		0.00		0.00		0.00		0.00		0.00		0.00		0,00
	Vm		1.5	1.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIf		2.5	2.9		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Centropages abdominalis	Iv	6118170101	0.9	1.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	v		1.1	1.3		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIf		1.6	2,1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIm		1.4	1.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Acartia sp	I-IV	61182901	0.5	0.7	1	33.33		0.00	9	600.00	12	600.00	2	66.67	2	266.67	3	400.00
Acartia longiremis	v	6118290103	0.7	1.0		0.00		0.00	12	800.00	8	533.33		0.00		0.00	4	533.33
	VIf		1.0	1.3	1	33.33		0.00	12	800.00	9	600.00		0.00		0.00	7	933.33
	VIm		0.9	1.1		0.00		0.00	8	533.33	6	400.00		0.00		0.00	13	1733.33
Acartia tumida	v	6118290105	1.5	1.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIf		2.0	2.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIm		1.7	1.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Monstrilla	VIm	6122	1.2	1.4		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Harpacticoida	v	6119	0.6	0.8	2	66.67		0.00	2	133.33	9	600.00		0.00		0.00	1	133.33
	VIf		0.7	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0,00
Microsetella	VIf	61190901	0.5	0.9		0.00		0.00	1	66.67		0.00	1	33.33		0.00		0.00
Oithona ep	I-IV	61200901	0.4	0.7	24	800.00	52	3466.67	50	3333.33	30	2000.00	36	1200.043	28	3733.33	32	4266.67
Oithona atlantica	v	6120090123	0.8	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIf		1.2	1.4		0.00	1	66.67		0.00		0.00		0.00		0.00	1	133.33
Oithona similis	v	6120090103	0.6	0.8	9	300.00	8	533.33	2	133.33		0.00		0.00	2	266.67	6	800.00
	VIf		0.7	1.0	34	1133.33	23	1533.33	13	666,67	8	533.33	19	633.33	11	1466.67	17	2266.67
	VIm		0.5	0.7	4	133.33	1	66.67	1	66.67		0.00	4	133.33		0.00		0,00
Oncaea sp	v	61200103	0.5	0.7	2	66.67	1	66.67	1	66.67	2	133.33		0.00		0.00		0.00
Oncaea borealis	VIf	6120010301	0.6	0.7		0.00		0.00		0.00		0,00	1	33.33		0.00		0.00
	VIm		0.3	0.4		0,00		0,00		0.00		0.00		0.00		0.00		0.00
AMPHIPODA																		
Parathemisto pacifica		6170011003	4.0	4,0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Cyphocaris sp		61693411	9.0	9.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Hyperiid juveniles		6170	1.5	2.0		0.00		0.00		0.00		0.00		0.00	1	133.33		0.00
Iaopod		6158	0.4	0.6		0.00		0.00	1	66.67		0.00		0.00		0.00		0.00
EUPHAUSIACEA																		
Thysanoessa sp		61740209	5.5	6.0		0.00		0.00		0,00		0.00		0,00		0.00		0.00
Euphausiid nauplii		6174	0.5	0.6		0,00		0.00		0,00		0.00	1	33.33		0.00		0.00
Euphausiid protozoea		6174	0.0	0.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
			0.5	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
			1.0	1.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
			1.5	2.0		0.00		0.00		0,00	1	66.67		0.00		0.00		0.00
			2.0	2.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Euphausiid zoea		6174	2.0	2.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
			2.5	3.0		0.00		0.00		0.00		0.00		0,00		0,00		0.00

Appendix E. Densities of micro- and macrozooplankton.

		3.0	3,5		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
		3.5	4.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Euphausiid juveniles	6174	4.5	6.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
DECAPODA																								
Carldea mysis	6179	2.5	7.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Crangon mysis	617922	3.0	3.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Pandalus sp	617918	11.0	25.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Brachyuran zoea	6184	1.5	2,0		0,00		0.00		0,00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Pagurld zoea	615306	1.5	6.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
ECHINODERMATA																								
Bipinnarla larvae	81	0.6	0.7		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Echinopluteus larvae	81	0.6	1..5		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Asteroid larvae	8104	0.6	0.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
TUNICATA																								
Oikopleura	84130101	1.5	10.0	5	166.67	9	600.00	3	200.00		0.00	1	33.33		0.00		0.00							
Fritillarla	841302	1.5	2,0	1	33.33		0.00		0.00		0.00		0.00		0.00		0.00							
VERTABRATA																								
Fish eggs	8735	3.0	3.0		0.00		0.00		0.00		0,00		0.00		0.00		0.00							
Fish larvae	6735	7.0	10.0		0,00		0.00		0.00		0.00		0.00		0.00		0,00							
Herring larvae	874701	6.0	9.0		0.00		0.00		0.00		0.00		0.00		0.00		0,00							
MISCELLANEOUS																								
Small eggs		0.2	0.4		0.00		0.00		0.00		0.00		0.00		0.00		0.00							
TOTALS FOR SAMPLE				274	9133.33	428	26533.33	375	25000.00	534	35600.00	272	9066.67	271	36133.33	395	52666.67							

Appendix E. Densities of micro- and macrozooplankton.

SAMPLE NUMBER				116		120		121		122		123		127		128	
Date				7-Jun		8-Jun		8-Jun		8-Jun		8-Jun		7-Jun		7-Jun	
Site				FAIR		6ASS		BASS		BASS		BASS		ROCK		ROCK	
Time				1316		825		830		033		836		1906		1915	
Mesh (urn)				25		25		25		25		25		2s		25	
Depth of tow (m)				5		30		20		10		5		30		20	
Volume filtered (m^3)				0.03		0.03		0.03		0.03		0.03		0.03		0.03	
Fraction enumerated				0.25		1		1		0.5		0.5		0.5		0.125	
SPECIES	STAGE	TAXONOMIC CODE	LENGTH m m MIN	MAX	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3
PROTOZOA																		
Foraminifera		3446	0.1	0.2		0.00		0.00	1	33.33	2	133.33		0.00	3	200.00		0.00
CNIDARIA																		
Medusa Juvenile		3730	0.1	0.3	3	400.00		0.00		0.00		0.00		0.00		0,00		0.00
Aegina		37120101	1.0	2.0		0.00		0.00		0.00	1	66.67		0.00		0.00		0.00
Aglantha		37110411	1.0	3.0		0.00		0.00		0.00		0.00		0.00		0.00	1	266.67
			5.0	7.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Euphysa		37030312	1.S	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Halitholus		37031206	5,0	7.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Obelia		37040102	0.6	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Phialidium		37040104	6.0	6.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Rathkea		37031902	1.5	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Sarsia		37030609	5.0	6.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
TREMATODA																		
Flatworms		3901	0.6	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
NEMATODA																		
Nematodes		47	0.8	1.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
ROTIFERA																		
Rotifers		45	0.2	0.6		0.00		0.00	1	33.33		0.00		0,00	2	133.33	2	533,33
CHAETOGNATHA																		
Sagitta elegans		6300000303	10.0	17.0		0.00		0.00		0.00		0.00		0s30		0.00		0.00
Chaetognath juveniles			3.0	7.0	3	400,00		0.00		0,00		0.00		0.00		0.00		0.00
BRYOZOA																		
Cyphonautes larvae		76	0.4	0.8		0.00		0,00		0.00		0.00		0.00	1	66.67		0.00
PHORONIDA																		
Actinotrocha larvae		77	0.8	1.0		0,00		0.00		0.00		0.00		0.00		0.00		0.00
MOLLUSCA																		
Limacina		51130101	0.6	2.0		0.00	1	33.33		0.00	1	66.67		0.00	2	133.33		0.00
Pteropod		S113	1.0	1,2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Bivalve veliger		5s	0,0	0,2	32	4266.67		0.00	3	100.00		0.00	1	66.87	5	333.33	7	1666.67
			0.2	0.4	4	533.33	4	133.33	3	100.00		0.00		0.00	2	133.33		0.00
Gastropod veliger		51	0.0	0.2	72	9600,00	15	500.00	43	1433,33	51	3400.00	104	6933.33	49	3266.67	19	5066.67

Appendix E. Densities of micro- and macrozooplankton.

			0.2	0,4	9	1200.00	3	100.00	2	66.67	6	400.00	22	1466.67	4	266.67	36	9600.00
			0.4	0.6		0.00		0.00		0.00	2	133.33	1	66.67		0.00	5	1333.33
POLYCHAETA																		
Spionid larvae		500143	0.8	4.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Polychaete larvae		5001	0.6	1.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Trochophore larvae		5001	0.2	0.6	2	266.67		0.00		0.00		0.00		0.00	2	133.33	3	800.00
CRUSTACEA																		
CIRRIPEDIA																		
Nauplii larvae		6130	0.2	0.8		0,00	2	66.67		0.00	1	66.67	5	333.33	2	133.33	4	1066.67
Cypris larvae		6130	0.8	1.2		0.00		0.00	1	33.33	1	66.67		0.00		0.00		0.00
CLADOCERA																		
Evadne		61090501	1.0	1.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Podon		61090502	0.6	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
COPEPODA																		
Copepod nauplii		6118	0.0	0.2	92	12266.67	21	700.00	40	1333.33	51	3400.00	94	6266.67	99	6600.00	42	11200.00
			0.2	0.4	90	12000.00	41	1366.67	54	1800.00	92	6133.33	199	13266.67	106	7066.67	72	19200.00
			0.4	0.6		0.00	1	33.33		0.00		0,00	2	133.33	1	66.67		0.00
			0.6	1,0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Copepodites	I-III	6115	0.2	0.4		0.00		0.00	5	166.67	1	66,67		0.00		0.00		0.00
			0.4	0.6	5	666.67		0.00	31	1033.33	20	1333.33	8	533.33	8	533,33	4	1066.67
			0.6	0.8	1	133.33	28	933.33	40	1333.33	6	533.33	7	466,67	6	400.00	1	266.67
Calanus sp	I	61180102	0.5	1.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	II		1.2	1,5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	III		1.5	2.4		0,00		0.00		0.00		0.00		0.00		0.00		0.00
Calanus marshallae	Iv	6116010204	2.3	2.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	v		2.8	3.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIf		3.7	4.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIm		3.5	4.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Calanus pacificus	v	6118010205	2.5	2.8		0.00		0.00		0,00		0.00		0.00		0.00		0.00
Neocalanus sp	IV	61180104	3.1	4.4		0.00		0.00		0.00		0,00		0.00		0.00		0.00
Neocalanus cristatus	v	6116010201	7.1	8.9		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus flemingeri	v		4.1	5.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus plumchrus	v	6118010206	4.1	5.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Eucalanus	I	61160301	1.3	1.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	II		1.6	2.0		0.00		0.00		0.00		0.00	1	66.67		0.00		0.00
	III		2.9	3.0		0.00		0.00	1	33.33		0.00		0.00		0.00		0.00
Eucalanus bungii	Iv	6118030102	3.4	3.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	w		4.9	5.2		0.00		0.00	1	33.33		0.00		0.00		0.00		0.00
	Vm		4.5	4.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Paracalanus parvus	v	6118040101	0.7	1.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Pseudocalanus sp. complex	Iv	61180505	0.9	1.1		0.00	26	933.33	9	300.00	1	66,67	5	333.33	5	333.33		0.00
	Vf		1.1	1.3	1	133.33	3	100.00	6	200.00	3	200.00	2	133,33	5	333.33		0.00
	Vm		1.0	1.3	2	266.67	11	366.67	6	200.00	6	400.00	3	200.00	4	266.67	2	533.33
	VIf		1.1	2.0		0.00	4	133.33	3	100.00	1	66.67	1	66.67	1	66.67	1	266.67
	VIm		1.1	1.5	1	133.33	1	33.33	2	66.67	1	66.67	1	66.67		0.00		0.00

Appendix E. Densities of micro- and macrozooplankton.

Microcalanus pygmeus pusillus	V	611.90S04	0.6	0.7		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Metridia sp	I-III	61161602	0.5	1.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Metridia pacifica	Iv	6118160214	1.1	1.3		0.00		0.00	1	33.33		0.00		0.00		0.00		0.00
	vi		1.8	2.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	Vm		1.5	1.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	Vif		2.5	2.9		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Centropages abdominalis	Iv	6118170101	0.9	1.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	v		1.1	1,3		0.00		0.00		0.00		0,00		0.00		0.00		0.00
	Vif		1.6	2.1		0.00		0.00		0.00		0,00		0.00		0.00		0.00
	Vim		1.4	1.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Acartia sp	I-IV	61182901	0.5	0.7	3	400.00	4	133.33		0.00		0.00	2	133.33		0.00		0.00
Acartia longiremis	v	6116290103	0.7	1.0	7	933.33	2	66.67	1	33.33		0.00	8	533.33		0.00	4	1066.67
	Vif		1.0	1.3	6	800.00	1	33.33		0.00		0.00	2	133.33	1	66.67	3	600.00
	Vim		0.9	1.1	7	933.33	1	33.33		0.00	1	66.67	12	600.00	2	133.33	1	266.67
Acartia tumida	v	6116290105	1.5	1.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	Vif		2.0	2.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	Vim		1.7	1.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Monstrilla	Vim	6122	1.2	1.4		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Harpacticoida	v	6119	0.6	0.8	1	133.33		0.00		0.00		0.00		0.00	3	200.00		0.00
	Vif		0.7	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Microsetella	Vif	61190901	0.5	0.9		0.00		0.00		0.00		0.00		0.00		0.00	1	266.67
Oithona sp	I-IV	61200901	0.4	0.7	36	4600.00	12	400.00	28	933.33	2a	1666.67	67	4466.67	37	2466.67	26	6933.33
Oithona atlantica	v	6120090123	0.8	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	Vif		1.2	1,4		0.00		0.00		0.00		0.00		0.00		0,00	1	266.67
Oithona similis	v	6120090103	0.6	0.8	4	533.33	1	33.33	3	100.00		0.00	13	866.67	12	800.00	4	1066.67
	Vif		0.7	1.0	7	933.33	4	133.33	20	666.67	14	933.33	20	1333.33	14	933.33	22	5866.67
	Vim		0.5	0.7	1	133.33	1	33.33	4	133.33	5	333.33	7	466.67		0.00		0.00
Oncaea sp	v	61200103	0.5	0.7		0.00	3	100.00	1	33.33	1	66.67		0.00		0.00		0.00
Oncaea borealis	Vif	6120010301	0.6	0.7		0.00		0.00	2	66.67		0.00		0.00		0.00		0.00
	Vim		0.3	0.4		0.00		0.00		0.00		0.00		0.00		0.00		0.00
AMPHIPODA																		
Parathemisto pacifica		6170011003	4.0	4,0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Cyphocaris sp		61693411	9.0	9.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Hyperiid juveniles		6170	1.S	2.0		0.00		0.00		0.00		0.00		0,00		0.00		0.00
Isopod		61S6	0,4	0.6		0.00		0.00		0.00		0.00		0,00		0,00	1	266.67
EUPHAUSIACEA																		
Thysanoessa sp		61740209	5.5	8.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Euphausiid nauplii		6174	0.5	0.6		0.00		0.00		0.00		0.00		0.00		0.00	1	266.67
Euphausiid protozoea		6174	0.0	0.5		0.00		0.00		0.00		0.00		0.00		0,00		0.00
			0.s	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
			1.0	1.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
			1.5	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
			2.0	2.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Euphausiid zoee		6174	2.0	2.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
			2.5	3.0		0.00		0.00		0.00		0.00	1	66.67		0.00		0.00

Appendix E. Densities of micro- and macrozooplankton.

		3.0	3.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
		3.5	4.0		0.00		0.00		0.00	1	66.67		0.00		0.00		0.00		0.00		0.00		0.00	
Euphausiid juveniles	6174	4.5	6.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
DECAPODA																								
Caridea mysis	6179	2.5	7.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Crangon mysis	617922	3.0	3.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Pandalus 5P	617918	11.0	25.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Brachyuran zoea	6184	1.5	2.0		0.00		0.00		0,00		0.00		0.00		0.00		0.00		0.0il		0.00		0.00	
Paguridzoea	618306	1.5	6.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
ECHINODERMATA																								
Bipinnaria larvae	81	0.6	0.7	2	266.67		0.00		0.00		0.00		0.00		0.00		0.00	1	266.67		0.00	1	266.67	
Echinopluteus larvae	61	0.6	1.5		0.00		0.00		0.00		0.00	1	66.67	1	66.67		0.00	1	266.67		0.00		0.00	
Asteroid larvae	8104	0.6	0.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
TUNICATA																								
Oikopleura	84130101	1.5	10.0		0.00	2	66.67	1	33.33		0.00		0,00		0.00		0.00		0.00		0.00		0.00	
Fritillaria	641302	1.5	2.0		0.00		0.00		0.00		0.00		0.00	1	66.67		0.00		0.00		0.00		0.00	
VERTABRATA																								
fish eggs	8735	3.0	3.0		0.00		0.00		0.00		0,00		0.00		0.00		0.00		0.00		0.00		0.00	
Fish larvae	6735	7.0	10.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Herring larvae	874701	6,0	9.0		0,00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
MISCELLANEOUS																								
Small eggs		0.2	0.4		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
TOTALS FOR SAMPLE				391	52133.33	194	6466.67	313	10433.33	299	19933,33	589	39266.67	376	25200.00		265		70666.67					

Appendix E. Densities of micro- and macrozooplankton.

SAMPLE NUMBER	129
Date	7-Jun
Site	ROCK
Time	1920
Mesh (urn)	25
Depth of tow (m)	10
Volume filtered (m^3)	0.03
Fraction enumerated	0.25

SPECIES	STAGE	TAXONOMIC CODE	LENGTH m m MIN	MAX	NO PER STN	NO PER M3
PROTOZOA						
Foraminifera		3446	0.1	0.2		0.00
CNIDARIA						
Medusa Juvenile		3730	0.1	0.3	1	133.33
Aegina		37120101	1.0	2.0		0.00
Aglantha		37110411	1,0	3.0	2	266.67
			5.0	7.0		0.00
Euphysa		37030312	1.5	2.0		0.00
Hallitholus		37031206	5.0	7.0		0.00
Obelia		37040102	0.6	1.0		0.00
Phialidium		37040104	6.0	6.0		0.00
Rathkea		37031902	1.5	2.0		0.00
Sarsia		37030609	S.0	6.0		0.00
TREMATDOA						
Flatworms		3901	0.6	1.0		0.00
NEMATODA						
Nematodes		47	0.8	1.S		0.00
ROTIFERA						
Rotifers		45	0.2	0.6	6	800.00
CHAETOGNATHA						
Sagitta elegans		8300000303	10,0	17.0		0.00
Chaetognath juveniles			3.0	7.0		0.00
BRYOZOA						
Cyphonautes larvae		78	0.4	0.8	1	133.33
PHORONIDA						
Actinotrocha larvae		77	0.8	1.0		0.00
MOLLUSCA						
Limacina		51130101	0.6	2.0		0,00
Pteropod		5113	1.0	1.2		0.00
Bivalve veliger		5s	0.0	0.2		0.00
			0.2	0.4	2	266.67
Gastropod veliger		51	0.0	0.2	48	6400.00

Appendix E. Densities of micro- and macrozooplankton.

			0.2	0.4	30	4000.00
			0.4	0.6		0.00
POLYCHAETA						
Spionid larvae		500143	0.6	4,0		0.00
Polychaete larvae		5001	0.6	1.5		0.00
Trochophore larvae		5001	0.2	0.6	2	266.67
CRUSTACEA						
CIRRIPEDIA						
Nauplii larvae		6130	0.2	0.6	2	266.67
Cypris larvae		6130	0.8	1.2		0.00
CLADOCERA						
Evadne		61090501	1.0	1.2		0.00
Podon		61090502	0.6	1.0		0.00
COPEPODA						
Copepod nauplii		6118	0.0	0.2	53	7066.67
			0.2	0.4	109	14533,33
			0.4	0,6	2	266.67
			0.6	1,0		0.00
Copepodites	I-III	6118	0.2	0.4		0.00
			0.4	0.6	2	266.67
			0.6	0,8		0.00
Calanus sp	I	61180102	0.5	1.1		0.00
	II		1.2	1.5		0.00
	III		1.5	2.4		0.00
Calanus marshallae	Iv	6118010204	2.3	2.6		0.00
	v		2.8	3.8		0.00
	Vlf		3.7	4.2		0.00
	Vlm		3.5	4.0		0.00
Calanus pacificus	V	6118010205	2.5	2.8		0.00
Neocalanus sp	IV	61180104	3.1	4.4		0.00
Neocalanus cristatus	V	6118010201	7.1	8.9		0.00
Neocalanus flemingeri	V		4,1	5.2		0.00
Neocalanus plumchrus	V	6118010206	4,1	5.2		0.00
Eucalanus	I	61180301	1.3	1.6		0.00
	II		1.6	2.0		0.00
	III		2.9	3.0		0.00
Eucalanus bungii	IV	6116030102	3.4	3.8		0.00
	Vf		4.9	5.2		0.00
	Vm		4,5	4.8		0.00
Paracalanus parvus	v	6116040101	0.7	1.1		0.00
Pseudocalanus sp. complex	IV	61180505	0.9	1.1	1	133.33
	Vf		1.1	1.3		0.00
	Vm		1.0	1.3	1	133.33
	Vlf		1.1	2.0		0.00
	Vlm		1.1	1.5		0.00

Appendix E. Densities of micro- and macrozooplankton.

Microcalanus pygmeus pusillus	V	61160504	0.6	0.7		0.00
Metridia sp	I-IN	61181602	0.5	1.1		0.00
Metridia pacifica	IV	6118160214	1.1	1.3		0.00
	VI		1.8	2.1		0.00
	Vm		1.5	1.8		0.00
	VIf		2.5	2.9		0.00
Centropages abdominalis	W	6118170101	0.9	1.1		0.00
	V		1.1	1.3	1	133.33
	VIf		1.6	2.1		0.00
	VIm		1.4	1.5		0.00
Acartia sp	I-IV	61182901	0.5	0.7	1	133.33
Acartia longiremis	V	6118290103	0.7	1.0	1	133.33
	VIf		1.0	1.3	1	133,33
	VIm		0.9	1.1	1	133.33
Acartia tumida	V	6118290105	1.5	1.8		0.00
	VIf		2.0	2.1		0.00
	VIm		1.7	1.8		0.00
Monstrilla	VIm	6122	1.2	1.4		0.00
Harpacticoida	V	6119	0.6	0.8		0.00
	VIf		0.7	1.0		0.00
Microsetella	VIf	61190901	0.5	0.9		0.00
Oithona sp	I-IV	61200901	0.4	0.7	14	1866,67
Oithona atlantica	V	6120090123	0.8	1.0		0.00
	VIf		1.2	1.4	1	133.33
Oithona similis	V	6120090103	0.6	0.8		0.00
	VIf		0.7	1.0	10	1333.33
	VIm		0.5	0.7		0.00
Oncaea sp	v	61200103	0.5	0.7		0.00
Oncaea borealis	VIf	6120010301	0.6	0.7		0.00
	VIm		0.3	0.4		0.00
AMPHIPODA						
Parathemisto pacifica		6170011003	4.0	4.0		0.00
Cyphocaris sp		61693411	9.0	9.0		0.00
Hyperiid juveniles		6170	1.5	2.0		0.00
Isopod		6158	0.4	0.6		0.00
EUPHAUSIACEA						
Thysanoessa sp		61740209	5.5	8.0		0.00
Euphausiid nauplii		6174	0.5	0.6		0.00
Euphausiid protozoea		6174	0.0	0.5		0.00
			0.5	1.0		0.00
			1.0	1.5		0.00
			1.5	2.0		0.00
			2.0	2.5		0.00
Euphausiid zoea		6174	2.0	2.5		0,00
			2.5	3.0		0.00

Appendix E. Densities of micro- and macrozooplankton.

		3.0	3.5		0.00
		3.5	4.0		0.00
Euphausiid juveniles	6174	4.5	6.0		0.00
DECAPODA					
Caridea mysis	6179	2.5	7.0		0.00
Crangon mysis	617922	3.0	3.0		0.00
Pandalus sp	617918	11.0	25.0		0.00
Brachyuran zoea	6164	1.5	2.0		0.00
Paguriid zoea	616306	1.5	6.0		0.00
ECHINODERMATA					
Bipinnaria larvae	81	0.6	0.7	1	133.33
Echinopluteus larvae	81	0>6	1.5		0,00
Asteroid larvae	8104	0.6	0.6		0.00
TUNICATA					
Oikopleura	64130101	1.5	10.0		0.00
Fritillaria	841302	1.5	2.0		0.00
VERTABRATA					
Fish eggs	8735	3.0	3.0		0.00
Fish larvae	6735	7.0	10.0		0.00
Herring larvae	874701	6.0	9.0		0.00
MISCELLANEOUS					
Small eggs		0.2	0.4	1	133,33
TOTALS FOR SAMPLE				294	39200.00

Appendix E. Densities of micro- and macrozooplankton.

i

SAMPLE NUMBER				130		134		135		136		137		141		142	
Date				7-Jun		7-Jun		7-Jun		7-Jun		7-Jun		12-Jun		12-Jun	
Site				ROCK		TAT		TAT		TAT		TAT		TAT		TAT	
Time				1924		800		810		811		815		1313		1317	
Mesh (urn)				2s		25		2s		25		2s		25		2s	
Depth of tow (m)				5		30		20		10		5		30		20	
Volume filtered (m3)				0.03		0.03		0.03		0.03		0.03		0.03		0.03	
Fraction enumerated				0,25		0.5		0.25		0.25		0.5		0.2s		0.25	
SPECIES	TAXONOMIC STAGE	CODE	LENGTH m m MIN	MAX	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO ER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3
PROTOZOA																		
Foraminifera		3446	0.1	0.2		0.00		0,00	1	133<33		0.00		0.00		0.00		0.00
CNIDARIA																		
Medusa juvenile		3730	0.1	0.3	2	266.67		0.00		0.00		0.00		0.00		0.00		0.00
Aeglna		37120101	1.0	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Aglantha		37110411	1.0	3.0	1	133.33		0.00		0.00	1	133.33		0.00		0.00		0.00
			5.0	7.0		0.00		0.00		0.00		0,00		0.00		0.00		0.00
Euphysa		37030312	1.5	2.0		0.00		0.00		0,00		0.00		0.00		0.00		0.00
Halitholus		37031206	5.0	7.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Obella		37040102	0.6	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Phialidium		37040104	6.0	6.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Rathkea		37031902	1.5	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Sarsia		37030609	5.0	6.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
TREMATODA																		
Flatworms		3901	0.6	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
NEMATODA																		
Nematodes		47	0.8	1.5		0.00		0,00		0.00		0.00		0.00		0.00		0.00
ROTIFERA																		
Rotifers		45	0.2	0,6		0.00		0.00		0.00		0.00	1	66.67		0.00	2	266.67
CHAETOGNATHA																		
Sagitta elegans		6300000303	10.0	17.0		0.00		0.00		0.00		0.00		0.00		0.00		0,00
Chaetognath juveniles			3.0	7.0		0.00	1	66.67	3	400.00		0.00		0.00		0.00		0.00
BRYOZOA																		
Cyphonautes larvae		78	0.4	0.8		0.00		0.00		0.00		0.00	1	66.67		0.00		0.00
PHORONIDA																		
Actinotrocha larvae		77	0.8	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
MOLLUSCA																		
Umacina		51130101	0.6	2.0		0.00		0.00		0,00		0.00		0.00	1	133.33		0.00
Pteropod		5113	1.0	1.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Bivalve veliger		55	0.0	0.2	2	266.67	6	400.00	20	2666.67	1	133.33	7	466.67	18	2400.00	12	1600.00
			0.2	0.4		0.00		0.00		0.00		0,00		0.00	6	800.00	2	266.67
Gastropod veliger		51	0.0	0.2	17	2266.67	14	933.33	45	6000.00	59	7666.67	16	1066.67	46	6133.33	70	9333.33

Appendix E. Densities of micro- and macrozooplankton.

			0.2	0,4	6	800.00	7	466.67	6	800.00	0	1066.67	1	66.67	27	3600.00	42	5600.00
			0.4	0.6		0.00		0.00	1	133.33	1	133.33		0.00	2	266.67		0.00
POLYCHAETA																		
Spionid larvae		500143	0.8	4.0		0.00		0.00		0.00		0.00		0,00		0.00		0.00
Polychaete larvae		5001	0.6	1.5		0.00		0.00		0.00		0.00		0,00		0.00		0.00
Trochophore larvae		5001	0.2	0.6	1	133.33	1	66.67	1	133.33	1	133.33		0.00	2	266.67	4	533.33
CRUSTACEA																		
CIRRIPEDIA																		
Nauplii larvae		6130	0.2	0.8	1	133.33		0.00		0.00		0.00	1	66.67		0.00		0.00
Cypris larvae		6130	0.8	1.2		0.00	1	66.67		0.00		0.00		0.00		0.00	1	133.33
CLADOCERA																		
Evadne		61090501	1.0	1.2		0.00		0.00		0.00		0.00		0.00	2	266.67		0.00
Podon		61090502	0.6	1.0		0.00		0.00		0.00		0,00	1	66.67		0.00		0.00
COPEPODA																		
Copepod nauplii		6118	0.0	0.2	61	6133,33	46	3066.67	56	7466.67	51	6800.00	58	3866.67	24	3200.00	16	2133.33
			0.2	0.4	140	18666.67	80	5333.33	59	7866.67	108	14400.00	108	7200.00	45	6000.00	39	5200.00
			0.4	0.6		0.00	5	333.33		0.00		0.00	3	200.00		0.00		0.00
			0.6	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Copepodites	I-III	6118	0.2	0.4		0.00	33	2200.00	1	133.33		0.00		0.00		0.00		0.00
			0.4	0.6	1	133.33	7	466.67	21	2800.00	2	266.67		0.00	25	3333.33	14	1866.67
			0.6	0,8		0.00		0.00	7	933.33	1	133.33		0.00	14	1866.67	7	933.33
Calanus sp	I	61180102	0.5	1.1		0.00		0.00	1	133.33		0.00		0.00		0.00		0,00
	u		1.2	1.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	III		1.5	2.4		0.00		0.00		0.00		0.00		0.00		0.00		0,00
Calanus marshallae	Iv	6118010204	2.3	2.6		0,00		0,00		0.00		0.00		0.00		0.00		0.00
	v		2.8	3.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	Vff		3.7	4.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	Vlm		3.5	4.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Calanus pacificus	v	6118010205	2.5	2.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus sp	Iv	61180104	3.1	4.4		0.00	1	66.67		0.00		0.00		0.00		0.00		0.00
Neocalanus cristatus	v	6118010201	7.1	8.9		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus flemingeri	v		4.1	5.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus plumchrus	v	6118010206	4.1	5.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Eucalanus	I	61160301	1.3	1.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	II		1.6	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	III		2.9	3.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Eucalanus bungii	Iv	6118030102	3.4	3.8		0.00		0.00		0.00		0.00		0.00		0,00		0.00
	w		4.9	5.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	Vm		4.5	4,6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Paracalanus parvus	v	6118040101	0.7	1.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Pseudocalanus sp. complex	Iv	61160505	0.9	1.1	2	266.67	5	333.33	2	266.67	1	133.33	1	66.67	3	400.00		0.00
	w		1.1	1.3	2	266.67	2	133.33	2	266.67	2	266.67	1	66.67	5	666.67	1	133.33
	Vm		1.0	1.3		0.00		0.00	2	266.67	1	133.33		0.00		0.00	1	133,33
	Vlf		1.1	2.0		0.00	1	66.67	1	133.33	1	133.33		0.00	1	133.33	1	133,33
	Vlm		1.1	1.5		0.00	3	200.00		0.00		0.00		0.00		0.00	1	133.33

Appendix E. Densities of micro- and macrozooplankton.

Microcalanus pygmeus pusillus	V	61180504	0.6	0.7		0.00	1	66.67		0,00		0.00		0.00		0.00		0.00
Metridia sp	I-III	61181602	0.5	1.1		0.00		0.00		0,00		0.00		0.00		0.00		0.00
Metridia pacifica	Iv	6118160214	1.1	1.3		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	w		1.8	2.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	Vm		1.5	1.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIf		2.5	2.9		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Centropages abdominalis	Iv	6118170101	0.9	1,1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	v		1.1	1.3		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIf		1.6	2.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIm		1.4	1.5		0.00		0.00		0,00		0.00		0.00		0.00		0.00
Acartia sp	1-IV	61182901	0.5	0 . 7		0.00		0.00		0,00		0.00	9	600.00	1	133.33		0,00
Acartia longiremis	v	6116290103	0.7	1.0	2	266.67	3	200.00	1	133.33	7	933.33	2	133.33		0.00		0.00
	VIf		1.0	1.3	1	133.33		0.00	2	266.67	2	266.67	1	66.67	1	133.33	1	133.33
	VIm		0.9	1.1	1	133.33		0.00	2	266.67	2	266.67	1	66.67	1	133.33	2	266.67
Acartia tumida	v	6118290105	1.5	1.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIf		2.0	2.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIm		1.7	1.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Monstrilla	VIm	6122	1.2	1.4		0.00		0.00		0,00		0.00		0.00		0.00		0.00
Harpacticoida	v	6119	0.6	0.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIf		0.7	1.0		0.00		0,00		0,00		0.00		0.00		0.00		0.00
Microsetella	VIf	61190901	0.5	0.9		0.00		0.00		0.00		0.00		0.00		0.00.		0.00
Oithona sp	1-IV	61200901	0.4	0.7	14	1866.67	18	1200.00	66	9066.67	63	8400.00	46	3066.67	22	2933.33	35	4666.67
Oithona atlantica	v	6120090123	0.8	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIf		1.2	1.4	1	133.33		0.00		0.00		0.00		0.00		0.00		0.00
Oithona similis	v	6120090103	0.6	0.8		0.00	4	266.67	4	533.33	4	533.33		0.00	7	933.33	8	1066.67
	VIf		0.7	1.0	4	533.33	23	1533.33	21	2800,00	24	3200.00	3	200.00	44	5866,67	43	5733.33
	VIm		0.5	0.7		0.00	1	66.67		0,00	2	266.67	1	66.67	1	133.33	3	400.00
Oncaea ap	v	61200103	0.5	0.7		0.00		0,00		0.00		0.00		0.00		0.00		0.00
Oncaea borealis	VIf	6120010301	0.6	0.7		0.00		0.00		0.00		0.00	3	200.00		0.00		0.00
	VIm		0.3	0.4		0.00		0.00		0.00		0.00	1	66.67		0.00		0.00
AMPHIPODA																		
Parathemisto pacifica		6170011003	4.0	4.0		0.00		0.00		0.00		0,00		0.00		0.00		0.00
Cyphocaris sp		61693411	9.0	9.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Hyperiid juveniles		6170	1.5	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Isopod		6156	0,4	0,6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
EUPHAUSIACEA																		
Thysanoessa sp		61740209	5.5	&O		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Euphausiid nauplii		6174	0.5	0.6		0.00		0.00		0,00		0.00		0.00		0.00		0.00
Euphausiid protozoea		6174	0.0	0.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
			0.5	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
			1.0	1.5		0.00		0.00		0,00		0.00		0.00		0.00		0.00
			1.5	2.0		0.00		0.00		0,00		0.00		0.00		0.00		0.00
			2.0	2.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Euphausiid zoea		6174	2.0	2.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
			2.5	3.0		0,00		0.00		0.00		0.00		0.00		0,00		0.00

Appendix E. Densities of micro- and macrozooplankton.

			3.0	3.5		0.00		0.00		0.00		0.00		0.00		0.00		0,00
			3.5	4.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Euphausiid Juveniles		6174	4.5	6.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
DECAPODA																		
Carldea mysis		6179	2.5	7.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Crangon mysis		617922	3.0	3.0		0.00		0,00		0.00		0.00		0.00		0.00		0.00
Pandalus 6p		617916	11.0	25.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Brachyuran zoea		6164	1.5	2,0		0.00		0.00		0.00		0.00		0,00		0.00		0.00
Pagurid zoea		616306	1.5	6.0		0.00		0.00		0.00		0.00		0.00	1	133.33		0.00
ECHINODERMATA																		
Bipinnaria larvae		61	0.6	0.7		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Echinopluteus larvae		81	0.6	1.5	1	133.33		0.00		0.00		0.00	1	66.67		0.00		0.00
Asteroid larvae		8104	0.6	0,6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
TUNICATA																		
Oikopleura		84130101	1.5	10.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Fritillaria		841302	1.5	2.0	5	666.67		0.00		0.00		0.00		0.00		0.00		0.00
VERTABRATA																		
Fish eggs		6735	3.0	3.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Fish larvae		8735	7.0	10,0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Herring larvae		874701	6.0	9.0		0.00		0.00		0.00		0,00		0.00		0.00		0.00
MISCELLANEOUS																		
Small eggs			0.2	0,4		0.00		0,00		0.00		0.00		0.00		0.00		0.00
TOTALS FOR SAMPLE					265	35333.33	263	17533.33	327	43600.00	342	45600.00	267	17600,00	299	39666.67	305	40666.67

Appendix E. Densities of micro- and macrozooplankton.

SAMPLE NUMBER				143		144		148		149		150	
Date				12-Jun		12-Jun		13-Jun		13-Jun		13-Jun	
Site				TAT		TAT		FAIR		FAIR		FAIR	
Time				1321		1325		1339		1344		1346	
Mesh (urn)				25		2s		25		2s		25	
Depth of tow (m)				10		5		30		20		10	
Volume filtered (m^3)				0,03		0.03		0.03		0.03		0.03	
Fraction enumerated				0.125		0.25		0.s		0.5		0.125	
SPECIES	TAXONOMIC STAGE CODE	LENGTH m m MIN	MAX	N O PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3
PROTOZOA													
Foraminifera	344a	0.1	0.2		0.00		0.00		0.00		0.00		0.00
CNIDARIA													
Medusa juvenile	3730	0.1	0,3		0.00		0.00		0.00		0.00		0.00
Aegina	37120101	1,0	2.0		0.00		0.00		0.00		0.Oil		0.00
Aglantha	37110411	1.0	3.0	2	533.33		0.00		0.00		0.00	1	266.67
		5.0	7.0		0.00		0.00		0.00		0.00		0.00
Euphysa	37030312	1.5	2.0		0.00		0.00		0.00		0.00		0.00
Halitholus	37031206	5.0	7.0		0.00		0.00		0.00		0.00		0.00
Obella	37040102	0.6	1.0		0.00	1	133.33		0.00		0.00		0.00
Phialidium	37040104	&o	6.0		0.00		0.00		0.00		0.00		0.00
Rathkea	37031902	1.5	2.0		0.00		0.00		0.00		0.00		0.00
Sarsia	37030609	5.0	6.0		0.00		0.00		0.00		0.00		0.00
TREMATDOA													
Flatworms	3901	0.6	1.0		0.00		0.00		0.00		0.00		0.00
NEMATODA													
Nematodes	47	0.8	1.5		0.00		0.00		0.00		0.00		0.00
ROTIFERA													
Rotifers	45	0.2	0.6		0.00		0.00		0.00		0.00	3	800.00
CHAETOGNATHA													
Sagitta elegans	8300000303	10.0	17.0		0.00		0.00		0.00		0.00		0.00
Chaetognath Juveniles		3.0	7.0	1	266.67		0.00		0.00		0.00	1	266.67
BRYOZOA													
Cyphonautes larvae	78	0.4	0.8		0.00		0.00		0.00		0.00		0.00
PHORONIDA													
Actinotrocha larvae	77	0.8	1.0		0.00		0.00		0.00		0.00		0.00
MOLLUSCA													
Limacina	51130101	0.6	2.0		0.00		0.00		0.00		0.00	1	266.67
Pteropod	5113	1.0	1.2		0.00		0.00		0.00		0.00		0.00
Bivalve veliger	55	0.0	0.2	10	2666.67	35	4666.67		0.00	8	533.33	5	3333.33
		0.2	0.4		0.00	7	933.33	1	66.67	1	66.67	1	266.67
Gastropod veliger	51	0.0	0.2	22	5866.67	56	7466.67	36	2400.00	28	1866.67	40	10666.67

Appendix E. Densities of micro- and macrozooplankton.

			0.2	0.4	42	11200.00	12	1600.00	4	266.67	9	600.00	12	3200.00
			0.4	0,6	1	266.67		0.00		0.00	2	133.33	4	1066.67
POLYCHAETA														
Spionid larvae		500143	0.8	4.0		0,00	23	3066.67		0.00		0.00		0.00
Polychaete larvae		5001	0.6	1.5		0.00		0.00		0.00		0.00		0.00
Trochophore larvae		5001	0.2	0.6		0.00		0.00		0.00		0.00	1	266.67
CRUSTACEA														
CIRRIPEDIA														
Nauplii larvae		6130	0.2	0.8	2	533.33	14	1866.67		0.00		0.00	1	266.67
Cypris larvae		6130	0.8	1.2		0.00		0.00		0.00	1	66.67		0.00
CLADOCERA														
Evadne		61090501	1.0	1.2		0.00	3	400.00		0.00		0.00		0.00
Podon		61090502	0.6	1.0		0.00	2	266.67		0,00		0.00	1	266.67
COPEPODA														
Copepod nauplii		6116	0.0	0.2	25	6666.67	46	6133.33	29	1933.33	34	2266.67	14	3733.33
			0.2	0.4	77	20533.33	66	8800.00	64	4266.67	61	4066.67	40	10666.67
			0.4	0.6	2	533.33	1	133.33	1	66.67	3	200.00	4	1066.67
			0,6	1,0		0.00		0.00		0.00		0,00		0.00
Copepodites	I-m	6116	0.2	0.4		0.00		0.00		0.00		0.00		0.00
			0.4	0.6	3	800.00	13	1733.33	13	866.67	8	533.33	7	1866.67
			0.6	0.8	12	3200.00	19	2533.33	6	400,00	2	133.33	3	800.00
Calanus sp	I	61160102	0.5	1.1		0.00		0.00		0.00		0.00		0.00
	II		1.2	1.5		0.00		0.00		0.00		0.00		0.00
	m		1.5	2.4	1	266.67		0.00		0.00		0.00		0.00
Calanus marshallae	Iv	6118010204	2.3	2.6		0.00		0.00		0.00		0.00		0.00
	v		2.6	3.6		0.00		0.00		0.00		0.00		0.00
	VIf		3.7	4.2		0.00		0.00		0.00		0.00		0.00
	Vim		3.5	4.0		0.00		0,00		0.00		0.00		0.00
Calanus pacificus	V	8118010205	2.5	2.6		0.00		0.00		0.00		0.00		0.00
Neocalanus sp	Iv	61160104	3.1	4.4		0.00		0,00		0.00		0.00		0.00
Neocalanus cristatus	v	6116010201	7.1	6.9		0.00		0.00		0.00		0.00		0.00
Neocalanus flemingeri	v		4.1	5.2		0.00		0.00		0.00		0.00		0.00
Neocalanus plumchrus	v	6116010206	4.1	5.2		0.00		0.00		0,00		0.00		0.00
Eucalanus	I	61180301	1.3	1.6		0.00		0.00		0.00		0.00		0.00
	II		1.6	2.0		0.00		0.00		0.00		0.00		0.00
	m		2.9	3.0		0.00		0.00		0.00		0.00		0.00
Eucalanus bungii	Iv	6118030102	3.4	3.6		0.00		0.00		0.00	1	66.67		0.00
	w		4.9	5.2		0.00		0.00		0.00		0.00		0.00
	Vm		4.5	4.6		0,00		0.00		0.00		0.00		0.00
Paracalanus parvus	v	6116040101	0.7	1.1		0.00		0.00		0.00		0.00		0.00
Pseudocalanus sp. complex	Iv	61180505	0.9	1.1	2	533.33	7	933.33	1	66.67	1	66.67	1	266.67
	w		1.1	1.3	4	1066.67	2	266.67	3	200.00	2	133.33	2	533.33
	Vm		1.0	1.3	5	1333.33	6	600.00	3	200.00	1	66.67	3	800.00
	VIf		1.1	2.0	2	533.33	3	400.00	5	333.33		0.00		0.00
	VIm		1.1	1.5	1	266.67	3	400.00		0.00		0.00		0.00

Appendix E. Densities of micro- and macrozooplankton.

Microcalanus pygmeus pusillus	V	61180504	0.6	0.7		0.00		0.00		0.00		0.00		0.00
Metridia sp	I-III	61181602	0.5	1,1		0.00		0.00	1	66.67		0.00		0.00
Metridia pacifica	Iv	6116160214	1.1	1.3		0,00		0.00		0.00		0.00		0.00
	Vf		1.8	2.1		0.00		0.00		0.00		0.00		0.00
	Vm		1.5	1.8		0.00		0.00		0.00		0.00		0.00
	VIf		2.5	2.9		0.00		0.00		0.00		0.00		0.00
Centropages abdominalis	IV	6118170101	0.9	1.1		0.00	1	133,33		0.00		0.00		0.00
	V		1.1	1.3	2	533.33	1	133.33		0.00		0.00		0.00
	VIf		1.6	2.1		0.00		0.00		0.00		0.00		0.00
	VIm		1.4	1.5		0.00		0.00		0.00		0.00		0.00
Acartia sp	1-IV	61182901	0.5	0.7	4	1066.67	11	1466.67	1	66.67	1	66.67	2	533.33
Acartia longiremis	V	6116290103	0.7	1.0	10	2666.67	15	2000.00	1	66.67		0.00	2	533.33
	VIf		1.0	1.3	2	533.33	9	1200.00		0.00		0.00		0.00
	VIm		0.9	1.1	9	2400.00	6	600,00		0.00		0.00	1	266.67
Acartia tumida	V	6118290105	1.5	1.8		0.00		0.00		0.00		0.00		0.00
	VIf		2.0	2.1		0.00		0.00		0.00		0.00		0.00
	VIm		1.7	1.8		0.00		0.00		0.00		0.00		0.00
Monstrilla	VIm	6122	1.2	1.4		0.00		0.00		0.00		0.00		0.00
Harpacticoida	V	6119	0.6	0.8		0.00		0.00	1	66.67		0.00		0.00
	VIf		0,7	1.0		0.00		0.00		0.00		0.00		0.00
Microsetella	VIf	61190901	0.5	0.9		0.00		0.00		0,00		0.00		0.00
Oithona 5p	I-IV	61200901	0.4	0.7	41	10933.33	42	5600.00	17	1133.33	20	1333,33	26	6933.33
Oithona atlantica	v	6120090123	0.8	1.0		0.00		0.00		0.00		0.00		0.00
	VIf		1.2	1.4		0.00		0.00		0.00		0.00		0.00
Oithona similis	v	6120090103	0.6	0.6	7	1666.67	6	1066.67	3	200,00	4	266.67	4	1066.67
	VIf		0.7	1.0	18	4600.00	10	1333.33	24	1600.00	35	2333.33	22	5866.67
	VIm		0.5	0.7		0.00	1	133.33		0.00	1	66,67		0.00
Oncaea sp	V	61200103	0.5	0.7		0.00		0.00	1	66.67		0.00		0.00
Oncaea borealis	VIf	6120010301	0.6	0.7		0.00		0.00		0.00		0.00		0,00
	VIm		0.3	0.4		0.00		0.00		0.00		0.00		0.00
AMPHIPODA														
Parathemisto pacifica		6170011003	4.0	4.0		0.00		0.00		0.00		0.00		0.00
Cyphocaris sp		61693411	9.0	9.0		0.00		0.00		0.00		0,00		0.00
Hyperiid juveniles		6170	1.5	2.0		0.00		0.00		0.00		0.00		0.00
Isopod		6156	0.4	0.6		0.00		0.00		0.00		0.00		0.00
EUPHAUSIACEA														
Thysanoessa sp		61740209	5.5	8.0		0.00		0.00		0.00		0.00		0.00
Euphausiid nauplii		6174	0.5	0.6		0.00		0.00		0.00		0.00		0.00
Euphausiid protozoea		6174	0.0	0.5		0.00		0,00		0.00		0.00		0.00
			0.5	1.0		0.00		0.00		0.00		0.00		0.00
			1.0	1,5		0.00		0.00		0.00		0.00		0.00
			1.5	2.0		0.00		0.00		0.00		0.00		0.00
			2.0	2.5		0.00		0.00		0.00		0.00		0.00
Euphausiid zoea		6174	2.0	2.5		0.00		0.00		0.00		0.00		0.00
			2.5	3.0		0.00		0.00		0.00		0.00		0.00

Appendix E. Densities of micro- and macrozooplankton.

		3.0	3.5		0.00		0.00		0.00		0.00		0.00
		3s	4.0		0.00		0.00		0.00		0.00		0.00
Euphauslid juveniles	6174	4.5	6.0		0.00		0.00		0.00		0.00		0.00
DECAPODA													
Carldea mysis	6179	2,5	7.0	1	266.67	1	133.33		0.00		0.00		0.00
Crangon mysis	617922	3.0	3.0		0.00		0.00		0.00		0.00		0.00
Pandalus sp	617918	11.0	25.0		0.00		0.00		0.00		0.00		0,00
Brachyuran zoea	6184	1.5	2.0	1	266.67	1	133.33		0.00		0.00		0.00
Pagurid zoea	618306	1.5	6.0		0.00		0.00		0.00		0.00		0.00
ECHINODERMATA													
Bipinnaria larvae	81	0.6	0.7		0.00		0.00		0.00		0.00		0.00
Echinopluteus larvae	81	0.6	1.5		0.00		0.00		0.00		0.00		0.00
Asterold larvae	8104	0.6	0.6		0.00		0.00		0.00		0.00		0.00
TUNICATA													
Oikopleura	64130101	1.5	10.0		0.00		0.00	4	266.67	1	66.67	2	533.33
Fritillaria	841302	1.5	2.0		0.00		0.00		0.00		0.00		0.00
VERTABRATA													
Fish eggs	8735	3,0	3.0		0.00		0.00		0.00		0.00		0.00
Fish larvae	8735	7,0	10.0		0.00		0.00		0.00		0.00		0.00
Herring larvae	874701	6.0	9.0		0.00		0.00		0.00		0.00		0.00
MISCELLANEOUS													
Small eggs		0.2	0.4		0.00		0.00		0.00		0.00		0.00
TOTALS FOR SAMPLE				309	82400.00	425	56666.67	219	14600.00	224	14933.33	204	54400.00

Appendix E. Densities of micro- and macrozooplankton.

SAMPLE NUMBER				151		155		156		157		158		162		163	
Date				Jun-13		Jun-12		Jun-12		Jun-12		Jun-12		Jun-13		Jun-13	
Site				FAIR		ROCK		ROCK		ROCK		ROCK		BASS		BASS	
Time				1348		2105		2114		2116		2117		845		850	
Mesh (urn)				25		2s		2s		25		25		2s		25	
Depth of tow (m)				5		30		20		10		s		30		20	
Volume filtered (m3)				0.03		0.03		0.03		0.03		0.03		0.03		0.03	
Fraction enumerated				0.25		1		0.5		0.25		0.25		0.5		0.5	
SPECIES	STAGE	TAXONOMIC CODE	LENGTH m m MIN	MAX	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3
PROTOZOA																		
Foraminifera		3448	0.1	0.2		0.00		0.00		0.00		0.00		0.00		0.00	2	133.33
CNIDARIA																		
Medusa juvenile		3730	0.1	0.3		0.00		0.00		0.00		0.00		0.00		0.00		0,00
Aegina		37120101	1,0	2,0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Aglantha		37110411	1.0	3.0		0.00	1	33.33		0.00	1	133.33	1	133.33		0.00	1	66.67
			5.0	7.0		0,00		0.00		0.00		0.00		0.00		0.00		0.00
Euphysa		37030312	1.5	2.0		0.00		0.00		0.00		0.00		0.00		0,00		0.00
Halitholus		37031206	S.0	7,0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Obelia		37040102	0.6	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Phialidium		37040104	6.0	6.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Rathkea		37031902	1.5	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Sarsia		37030609	5,0	6.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
TREMATOOA																		
Flatworms		3901	0.6	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
NEMATOOA																		
Nematodes		47	0.8	1.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
ROTIFERA																		
Rotifers		45	0.2	0.6		0.00	2	66.67		0.00	6	800.00	5	666.67		0.00		0.00
CHAETOGNATHA																		
Sagitta elegans		8300000303	10.0	17,0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Chaetognath juveniles			3.0	7.0		0.00		0.00		0.00		0.00		0.00		0.00		0,00
BRYOZOA																		
Cyphonautes larvae		7a	0.4	0.8		0.00		0.00		0,00	1	133.33	1	133.33		0.00		0.00
PHORONIDA																		
Actinotrocha larvae		77	0.8	1.0		0.00		0,00		0.00		0.00		0.00		0.00		0.00
MOLLUSCA																		
Limacina		51130101	0.6	2.o	1	133.33		0.00		0.00	1	133.33		0.00		0.00		0.00
Pteropod		5113	1.0	1.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Bivalve veliger		55	0.0	0.2	16	2133.33	7	233.33	9	600.00	8	1066.67		0.00	3	200.00	2	133.33
			0.2	0.4	4	533.33	1	33.33	3	200.00		0.00		0.00	1	66.67		0.00
Gastropod veliger		51	0.0	0.2	38	5066.67	21	700.00	s	333.33	154	20533.33	105	14000.00	29	1933.33	69	4600.00

Appendix E. Densities of micro- and macrozooplankton.

		i																	
			0.2	0.4	15	2000.00	9	300.00	2	133.33	43	5733.33	76	10133.33	12	600.00	6	533.33
			0.4	0,6	7	933.33		0.00		0.00		0.00		0.00	1	66.67	1	66.67
POLYCHAETA																			
Spionid larvae		500143	0.8	4.0		0,00		0.00		0.00	2	266.67	1	133.33		0.00		0.00
Polychaete larvae		5001	0.6	1.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Trochophore larvae		5001	0.2	0.6		0.00		0.00	4	266.67	19	2533.33	2	266.67		0.00	2	133.33
CRUSTACEA																			
CIRRIPEDIA																			
Nauplii larvae		6130	0.2	0.8	3	400.00		0.00		0.00	1	133.33	1	133.33	1	66.67		0.00
Cypris larvae		6130	0.6	1.2	1	133.33	1	33.33		0.00		0.00		0.00		0.00		0.00
CLADOCERA																			
Evadne		61090501	1.0	1.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Podon		61090502	0.6	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
COPEPODA																			
Copepod nauplii		6116	0.0	0.2	55	7333.33	45	1500.00	36	2400.00	49	6533.33	74	9666.67	9	600.00	62	4133.33
			0.2	0.4	64	11200.00	50	1666.67	82	5466.67	90	12000.00	69	11666.67	26	1733.33	65	5666.67
			0.4	0.6	1	133.33	12	400.00	1	66.67	2	266.67		0.00	19	1266.67	3	200.00
			0.6	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Copepodites	I-III	6118	0.2	0.4		0.00		0.00		0.00	1	133.33		0.00		0,00		0,00
			0.4	0.6	4	533.33	10	333.33	14	933.33	4	533.33	2	266.67	25	1666.67	13	666.67
			0.6	0.6	2	266.67	10	333.33	6	533.33		0.00	1	133.33	35	2333.33	5	333.33
Calanus sp	i	61180102	0.5	1.1		0,00		0.00		0,00		0.00		0.00		0.00		0.00
	II		1.2	1.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	III		1.5	2.4		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Calanus marshallae	Iv	6116010204	2.3	2.6		0.00		0.00		0.00		0,00		0.00		0.00		0.00
	v		2.8	3.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	Vif		3.7	4.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	Vim		3.5	4.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Calanus pacificus	V	6118010205	2.5	2.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus sp	Iv	611 S0104	3.1	4.4		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus cristatus	V	6118010201	7.1	13.9		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus flemingeri	v		4.1	5.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus plumchrus	v	6116010206	4.1	5.2		0.00		0.00		0.00		0.00		0.00		0,00	1	66,67
Eucalanus	I	61180301	1.3	1.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	II		1.6	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	III		2.9	3.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Eucalanus bungii	W	6116030102	3.4	3.8		0.00		0.00		0.00		0.00		0.00	1	66.67		0.00
	w		4,9	5.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	Vm		4.5	4.6		0.00		0.00		0.00		0.00		0.00		0.00	1	66.67
Paracalanus parvus	v	6116040101	0.7	1.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Pseudocalanus sp. complex	Iv	61180505	0.9	1.1	4	533.33	5	166.67	5	333.33	1	133.33		0.00	9	600.00	4	266.67
	w		1.1	1.3	3	400.00	5	166.67	3	200.00	1	133.33		0.00	10	666.67	1	66.67
	Vm		1.0	1.3	6	600.00	5	166.67	6	400.00	1	133.33		0.00	8	533.33	2	133.33
	Vif		1.1	2.0	1	133.33	11	366.67	2	133.33		0.00	1	133.33	6	400.00		0.00
	Vim		1.1	1.5		0.00	7	233.33		0.00		0.00		0.00	1	66.67		0.00

Appendix E. Densities of micro- and macrozooplankton.

Microcalanus pygmeus pusillus	V	61180S04	0.6	0.7		0.00		0.00		0.00		0.00		0.00	1	66.67		0.00
Metridia sp	I-III	61181602	0.5	1.1		0.00	1	33.33		0.00		0.00		0.00		0.00		0.00
Metridia pacifica	W	6116160214	1.1	1.3		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	W		1.8	2,1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	Vm		1.5	1.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	Vtf		2.5	2.9		0.00		0.00		0.00		0.00		0.00	1	66.67		0.00
Centropages abdominalis	IV	6118170101	0.9	1.1		0.00		0.00		0.00		0.00		0.00		0,00		0.00
	V		1.1	1.3	1	133.33		0.00		0.00		0.00		0.00		0.00		0.00
	VIf		1.6	2.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIm		1.4	1.5	1	133.33		0.00		0.00		0.00		0.00		0.00		0.00
Acartia sp	I-IV	61182901	0.s	0.7	6	800,00		0.00		0.00		0.00	5	666.67		0,00	1	66.67
Acartia longiremis	V	6118290103	0.7	1.0	6	800.00		0,00		0.00	1	133.33		0.00		0.00		0.00
	VIf		1.0	1.3	1	133.33	1	33,33	1	66.67		0.00	1	133.33		0.00	2	133.33
	VIm		0.9	1.1	5	666.67		0.00		0.00		0.00		0.00		0.00	2	133.33
Acartia tumida	V	6116290105	1.5	1.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIf		2.0	2.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIm		1.7	1.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Monstrilla	VIm	6122	1.2	1.4		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Harpacticoida	V	6119	0.6	0.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIf		0.7	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Microsetella	VIf	61190901	0.5	0.9		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Oithona sp	I-IV	61200901	0.4	0.7	26	3466.67	19	633.33	16	1066.67	35	4666.67	12	1600.00	7	466.67	3	200.00
Oithona atlantica	V	6120090123	0.8	1.0		0.00		0.00		0.00		0,00		0.00		0.00		0.00
	VIf		1.2	1.4		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Oithona similis	V	6120090103	0.6	0.8	8	1066.67	13	433.33	9	600.00	2	266.67		0.00	2	133.33	5	333.33
	VIf		0.7	1.0	7	933.33	25	833.33	33	2200.00	8	1066.67	5	666.67	10	666.67	9	600.00
	VIm		0.5	0.7	1	133<33	3	100.00		0,00	2	266.67		0.00	1	66.67	3	2043.00
Oncaea sp	V	61200103	0.5	0.7	1	133.33	8	266.67		0.00	1	133.33		0.00	3	200.00		0.00
Oncaea borealis	VIf	6120010301	0.6	0.7		0.00	2	66.67		0.00		0.00		0.00		0.00		0.00
	VIm		0.3	0.4		0.00		0.00		0.00		0.00		0.00		0.00		0.00
AMPHIPODA																		
Parathemisto pacifica		6170011003	4.0	4.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Cyphocaris sp		61693411	9.0	9.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Hyperiid juveniles		6170	1.5	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Isopod		6158	0.4	0.6		0.00		0.00		0.00		0.00		0,00		0.00		0.00
EUPHAUSIACEA																		
Thysanoessa sp		61740209	5.5	8.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Euphausiid nauplii		6174	0.5	0.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Euphausiid protozoea		6174	0.0	0.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
			0.5	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
			1.0	1.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
			1.5	2.0		0.00		0.00		0,00		0.00		0.00		0.00		0.00
			2.0	2.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Euphausiid zoea		6174	2.0	2.5		0,00		0.00		0.00		0.00		0.00		0.00		0.00
			2.5	3.0		0.00		0.00		0.00		0,00		0.00		0.00		0,00

Appendix E. Densities of micro- and macrozooplankton.

		3.0	3.5		0.00		0.00		0.00		0.00		0,00		0.00		0.00
		3.5	4.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Euphausiid juveniles	6174	4.5	6.0		0.00		0.00		0.00		0.00		0.00		0,00		0.00
DECAPODA																	
Caridea mysis	6179	2.5	7.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Crangon mysis	617922	3.0	3.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Pandalus sp	617918	11.0	25.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Brachyuran zoea	6184	1.5	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Pagurid zoea	618306	1.5	6.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
ECHINODERMATA																	
Bipinnaria larvae	81	0.6	0.7		0.00		0.00		0.00	3	400.00		0.00		0.00		0.00
Echinopluteus larvae	61	0.6	1.5		0,00		0.00		0.00		0.00		0.00		0.00		0.00
Asteroid larvae	8104	0.6	0.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
TUNICATA																	
Oikopleura	84130101	1.5	10.0		0.00	1	33,33	1	66.67		0.00		0.00	1	66.67		0.00
Fritillaria	641302	1.5	2.0		0.00		0.00		0.00	1	133.33	2	266.67		0.00		0.00
VERTABRATA																	
Fish eggs	6735	3.0	3.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Fish larvae	8735	7.0	10.0		0.00		0.00		0.00		0.00		0.00		0,00		0.00
Herring larvae	674701	6.0	9.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
MISCELLANEOUS																	
Small eggs		0.2	0.4		0.00		0.00		0.00		0.00		0.00		0.00		0.00
TOTALS FOR SAMPLE				308	41066,67	275	9166.67	240	16000.00	436	56400,00	384	51200.00	222	14600.00	287	19133.33

Appendix E. Densities of micro- and macrozooplankton.

SAMPLE NUMBER				164		165		169		170		171		172		176	
Date				13-Jun		13-Jun		20-Jun		20-Jun		20-Jun		20-Jun		21-Jun	
She				BASS		BASS		TAT		TAT		TAT		TAT		ROCK	
Time				853		654		2000		2004		2007		2009		1608	
Mesh (urn)				25		25		25		25		2s		25		25	
Depth of tow (m)				10		5		30		20		10		5		30	
Volume filtered (m^3)				0.03		0.03		0.03		0.03		0.03		0.03		0.03	
Fraction enumerated				0.5		0.25		1		0,5		1		0.5		1	
SPECIES	STAGE	TAXONOMIC CODE	LENGTH m m MIN	MAX	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3
PROTOZOA																		
Foraminifera		3446	0.1	0.2		0.00		0.00	9	300.00		0.00		0.00		0,00		0,00
CNIDARIA																		
Medusa juvenile		3730	0.1	0.3		0.00		0.00		0.00		0.00		0.00		0,00		0.00
Aegina		37120101	1.0	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Aglantha		37110411	1.0	3.0		0,00		0.00		0.00		0.00	3	100.00		0.00		0.00
			5.0	7.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Euphysa		37030312	1.5	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Halitholus		37031206	5.0	7.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Obella		37040102	0,6	1.0		0.00		0.00		0.00		0.00		0.00	1	66.67		0.00
Phialidium		37040104	6.0	6.0		0.00		0,00		0.00		0.00		0.00		0.00		0.00
Rathkea		37031902	1.5	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Sarsia		37030609	5.0	6.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
TREMATODA																		
Flatworms		3901	0.6	1.0		0.00		0,00		0.00		0.00		0.00		0.00		0.00
NEMATODA																		
Nematodes		47	0.8	1.S		0.00		0.00		0.00	3	200.00		0.00	1	66.67		0.00
ROTIFERA																		
Rotifers		45	0.2	0.6	6	400.00	3	400,00		0.00		0.00	3	100.00		0.00		0.00
CHAETOGNATHA																		
Sagitta elegans		8300000303	10.0	17,0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Chaetognath juveniles			3.0	7.0		0.00		0.00		0.00		0.00		0.00	1	66.67		0.00
BRYOZOA																		
Cyphonautes larvae		78	0.4	0.8		0.00	2	266.67		0.00		0.00		0.00		0.00		0.00
PHORONIDA																		
Actinotrocha larvae		77	0.8	1.0		0.00		0.00		0.00		0.00		0.00	1	66.67		0.00
MOLLUSCA																		
Limacina		51130101	0.6	2.0	1	66.67	2	266.67		0.00	1	66.67	3	100.00		0,00	4	133.33
Pteropod		5113	1.0	1.2		0.00		0.00		0.00		0.00		0.00	2	133.33		0.00
Bivalve veliger		55	0,0	0.2		0,00	3	400.00	16	533.33		0.00		0.00	1	66.67		0.00
			0.2	0.4	2	133.33	1	133.33	16	600.00	1	66.67		0.00	4	266.67	1	33.33
Gastropod veliger		51	0.0	0.2	44	2933.33	15	2000.00	42	1400.00	37	2466.67	290	9666,67	77	5133.33	37	1233.33

Appendix E. Densities of micro- and macrozooplankton.

SAMPLE NUMBER					164		165		169		170		171		172		176	
Date					13-Jun		13-Jun		20-Jun		20-Jun		20-Jun		20-Jun		21-Jun	
Site					BASS		BASS		TAT		TAT		TAT		TAT		ROCK	
Time					853		854		2000		2004		2007		2009		1608	
Mesh (urn)					25		25		2s		2s		25		25		2s	
Depth of tow (m)					10		5		30		20		10		5		30	
Volume filtered (m3)					0,03		0.03		0.03		0.03		0.03		0.03		0.03	
Fraction enumerated					0.5		0.25		1		0.5		1		0,5		1	
SPECIES	STAGE	TAXONOMIC CODE	LENGTH m m MIN	MAX	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3
PROTOZOA																		
Foraminifera		3446	0.1	0.2		0.00		0.00	9	300.00		0.00		0.00		0.00		0.00
CNIDARIA																		
Medusa juvenile		3730	0.1	0.3		0.00		0.00		0.00		0.00		0.00		0.00		0,00
Aegina		37120101	1.0	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Aglantha		37110411	1.0	3,0		0.00		0.00		0.00		0.00	3	100.00		0.00		0.00
			5.0	7.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Euphysa		37030312	1.5	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Halitholus		37031206	5,0	7.0		0.00		0.00		0,00		0,00		0.00		0.00		0.00
Obelia		37040102	0.6	1.0		0.00		0.00		0.00		0.00		0.00	1	66.67		0.00
Phialidium		37040104	6.0	6.0		0.00		0.00		0.00		0.00		0.00		0.00		0s)0
Rathkea		37031902	1.5	2,0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Sarsia		37030609	5.0	6.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
TREMATODA																		
Flatworms		3901	0.6	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
NEMATODA																		
Nematodes		47	0.8	1.5		0.00		0.00		0.00	3	200.00		0.00	1	66.67		0.00
ROTIFERA																		
Rotifers		45	0.2	0.6	6	400.00	3	400.00		0.00		0.00	3	100.00		0.00		0.00
CHAETOGNATHA																		
Sagitta elegans		6300000303	10.0	17.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Chaetognath juveniles			3.0	7.0		0.00		0.00		0.00		0.00		0.00	1	66.67		0.00
BRYOZOA																		
Cyphonautes larvae		78	0.4	0.0		0.00	2	266.67		0.00		0.00		0.00		0.00		0.00
PHORONIDA																		
Actinotrocha larvae		77	0.8	1.0		0.00		0.00		0.00		0.00		0.00	1	66.67		0.00
MOLLUSCA																		
Limacina		51130101	0.6	2.0	1	66.67	2	266.67		0.00	1	66.67	3	100.00		0.00	4	133.33
Pteropod		5113	1,0	1.2		0.00		0.00		0.00		0.00		0.00	2	133.33		0.00
Bivalve veliger		5s	0.0	0.2		0.00	3	400.00	16	533.33		0.00		0,00	1	66.67		0.00
			0.2	0.4	2	133.33	1	133.33	18	600.00	1	66.67		0.00	4	266.67	1	33.33
Gastropod veliger		51	0.0	0.2	44	2933.33	1s	2000.00	42	1400.00	37	2466.67	290	9666.67	77	5133.33	37	1233.33

Appendix E. Densities of micro- and macrozooplankton.

			0.2	0.4	11	733.33	3	400.00	25	833.33	59	3933.33	138	4600.00	59	3933,33	59	1966.67
			0.4	0.6	3	200.00		0.00	11	366.67	11	733.33		0.00	6	400.00	2	66.67
POLYCHAETA																		
Spionid larvae		500143	0.8	4.0		0.00		0.00		0.00	1	66.67		0.00	3	200.00	1	33.33
Polychaete larvae		5001	0.6	1.S		0.00		0.00		0.00		0.00	1	33.33		0.00		0.00
Trochophore larvae		5001	0.2	0.6	2	133.33		0.00	4	133.33	6	400.00	3	100.00		0.00	4	133.33
CRUSTACEA																		
CIRRIPEDIA																		
Nauplii larvae		6130	0.2	0.8		0.00	3	400.00	1	33.33		0.00	4	133.33	1	66.67	3	100.00
Cypris larvae		6130	0.8	1.2		0.00		0.00		0.00		0.00	1	33.33		0.00		0.00
CLADOCERA																		
Evadne		61090501	1.0	1.2		0.00		0.00		0.00		0.00		0.00	6	400.00		0.00
Podon		61090502	0.6	1.0		0.00		0.00		0.00		0.00		0.00	2	133.33		0.00
COPEPODA																		
Copepod nauplii		6118	0.0	0.2	81	5400.00	99	13200.00	66	2200.00	28	1866.67	181	6033.33	41	2733.33	74	2486.67
			0.2	0.4	238	15866.67	216	28800.00	62	2066.67	41	2733.33	95	3166.67	09	5933.33	02	2733.33
			0.4	0.6	1	66.67		0.00		0.00	1	66.67		0.00		0.00	2	66.67
			0.6	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Copepodites	I-III	6118	0.2	0.4	1	66.67		0.00	13	433.33	1	66.67	5	166.67	5	333.33	13	433.33
			0.4	0.6	4	266.67		0.00	47	1566.67	18	1200.00	11	366.67	21	1400.00	17	566.67
			0.6	0.8	5	333.33		0.00	28	933.33	22	1466.67	12	400.00	12	800.00	12	400.00
Calanus sp	I	61180102	0.5	1.1		0.00		0.00		0.00		0.00		0.00		0.00	1	33.33
	II		1.2	1.5		0.00		0.00		0.00		0.00		0.00		0.00	1	33.33
	III		1.5	2.4		0.00		0.00		0.00		0.00		0.00		0.00		0,00
Calanus marshallae	Iv	6118010204	2.3	2.8		0.00		0.00		0.00		0.00		0.00		0.00		0,00
	v		2.8	3.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIf		3.7	4.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIm		3.5	4.0		0.00		0.00		0.00		0,00		0.00		0.00		0.00
Calanus pacificus	v	6118010205	2.5	2.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus sp	Iv	61160104	3.1	4.4		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus cristatus	v	6118010201	7.1	8.9		0.00		0.00		0,00		0.00		0.00		0.00		0.00
Neocalanus flemingeri	v		4.1	5.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus plumchrus	v	6118010206	4.1	5.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Eucalanus	I	61180301	1.3	1.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	II		1.6	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	III		2.9	3.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Eucalanus bungii	Iv	6118030102	3,4	3.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VI		4.9	5.2		0.00		0.00		0.00	1	0.00		0.00		0,00		0.00
	Vm		4.5	4.8		0.00		0.00		0.00		0.00		0.00		0.00	1	0.00
Paracalanus parvus	v	6118040101	0.7	1.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Pseudocalanus sp. complex	Iv	61180505	0.9	1.1		0.00		0.00	6	0.00	6	0.00		0.00	2	0.00	13	0.00
	Vf		1.1	1.3		0.00		0.00	7	0.00	4	0.00	5	0.00		0.00	9	0.00
	Vm		1.0	1.3		0.00		0.00	7	0.00	2	0.00	1	0.00		0.00	13	0.00
	VIf		1.1	2.0		0.00		0.00	6	0.00	2	0.00	4	0.00	3	0.00	3	0.00
	VIm		1.1	1.5		0.00		0.00	1	0.00		0.00		0.00	1	0.00	6	0.00

Appendix E. Densities of micro- and macrozooplankton.

Microcalanus pygmeus pusillus	V	61180504	0.6	0.7		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Metridia sp	I-III	61181602	0.5	1.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Metridia pacifica	W	6118160214	1.1	1.3		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	Vf		1.6	2.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	Vm		1.5	1.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIf		2.5	2.9		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Centropages abdominalis	Iv	6118170101	0.9	1.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	v		1.1	1.3		0.00		0.00		0.00		0.00		0.03		0.00		0.00
	VIf		1,6	2.1		0.00		0.00		0,00		0.00		0.00		0.00		0.00
	VIm		1.4	1.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Acartia sp	I-IV	61182901	0.5	0.7	17	0.00	4	0.00		0.00	2	0.00		0.00	9	0.00		0.00
Acartia longiremis	v	6116290103	0,7	1.0	3	0.00		0.00		0.00		0.00		0.00	4	0.00		0.00
	VIf		1.0	1.3	1	0.00		0.00		0.00	1	0.00	1	0.00		0.00	3	0.00
	VIm		0.9	1.1	1	0.00		0.00		0.00	3	0.00	2	0.00	2	0.00		0.00
Acartia tumida	v	6116290105	1,5	1.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIf		2.0	2.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIm		1.7	1.6		0.00		0.00		0,00		0.00		0.00		0.00		0.00
Monstrilla	VIm	6122	1.2	1.4		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Harpacticoida	v	6119	0.6	0.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIf		0.7	1.0		0.00		0.00	1	0.00		0.00		0.00		0.00		0.00
Microsetella	VIf	61190901	0.5	0.9		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Oithona 6p	I-IV	61200901	0.4	0.7	68	0.00	30	0.00	72	0.00	69	0.00	132	0.00	69	0.00	43	0.00
Oithona atlantica	v	6120090123	0.8	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIf		1.2	1.4		0.00		0.00		0.00		0.00		0.00		0.00	2	0.00
Oithona similis	v	6120090103	0.6	0.8	75	0.00		0.00	19	0.00		0.00	10	0.00		0,00	12	0.00
	VIf		0.7	1.0	1	0,00	2	0.00	120	0.00	90	0,00	132	0.00	53	0.00	46	0.00
	VIm		0.5	0.7		0.00		0.00	15	0.00	6	0.00	9	0.00	1	0.00	14	0.00
Oncaea sp	v	61200103	0.S	0,7		0.00		0.00	2	0.00		0.00		0.00		0.00	1	0.00
Oncaea borealis	VIf	6120010301	0.6	0.7		0.00		0.00		0.00		0.00		0.00		0.00		0,00
	VIm		0.3	0.4		0,00		0.00		0.00		0.00		0.00		0.00		0.00
AMPHIPODA																		
Parathemisto pacifica		6170011003	4.0	4.0		0.00		0.00		0,00		0.00		0.00		0,00		0.00
Cyphocaris sp		61693411	9.0	9.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Hyperiid juveniles		6170	1,5	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Isopod		61S8	0.4	0.6		0.00		0.00		0.00		0.00	2	0.00		0.00		0.00
EUPHAUSIACEA																		
Thysanoessa sp		61740209	5.5	8.0		0.00		0.00		0.00		0.00		0.00		0,00		0.00
Euphausiid nauplii		6174	0.5	0.6		0.00		0.00		0,00		0.00		0.00		0.00		0.00
Euphausiid protozoea		6174	0.0	0.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
			0.5	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
			1.0	1.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
			1.5	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
			2.0	2.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Euphausiid zoaa		6174	2.0	2.5		0.00		0.00		0,00		0.00		0.00		0.00		0.00
			2.5	3.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00

Appendix E. Densities of micro- and macrozooplankton.

		3.0	3.5		0,00		0.00		0.00		0.00		0.00		0.00			0,00
		3.5	4.0		0.00		0,00		0.00		0.00		0.00		0.00			0.00
Euphausiid juveniles	6174	4.5	6.0		0.00		0.00		0.00		0.00		0,00		0.00			0.00
DECAPODA																		
Carldea mysis	6179	2.5	7.0		0.00		0.00		0,00		0.00	1	0.00		0,00			0.00
Crangon mysis	617922	3.0	3.0		0.00		0.00		0.00		0.00		0.00		0.00			0,00
Pandalus sp	617916	11.0	25.0		0.00		0.00		0.00		0.00		0.00		0.00			0.00
Brachyuran zoea	6184	1.5	2.0		0.00		0.00		0.00	3	0.00		0.00		0.00			0.00
Pagurid zoea	618306	1.5	6.0		0.00		0.00		0.00		0.00		0.00		0.00	1		0.00
ECHINODERMATA																		
Bipinnaria larvae	61	0.6	0.7		0.00		0.00		0.00		0.00		0.00	1	0.00			0.00
Echinopluteus larvae	81	0.6	1.5		0.00		0.00		0.00		0.00		0.00		0.00			0.00
Asteroid larvae	6104	0.6	0.6		0.00		0.00		0.00		0.00		0.00		0.00			0.00
TUNICATA																		
Oikopleura	64130101	1.5	10.0		0.00		0.00		0.00		0.00		0.00		0.00			0.00
Fritillaria	641302	1.5	2.0	1	0.00		0.00		0.00	1	0.00		0.00	11	0.00	5		0.00
VERTABRATA																		
Fish eggs	8735	3,0	3,0		0.00		0.00		0.00		0.00		0.00		0.00			0.00
Fish larvae	6735	7.0	10.0		0.00		0.00		0.00		0.00		0.00		0.00			0.00
Herring larvae	874701	6.0	9.0		0.00		0.00		0.00		0.00		0.00		0.00			0.00
MISCELLANEOUS																		
Smell eggs		0.2	0.4		0.00		0.00		0.00		0.00		0.00		0.00			0.00
TOTALS FOR SAMPLE				o	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0		0.00

Appendix E. Densities of micro- and macrozooplankton.

SAMPLE NUMBER				177		176		179		183		184		185		186	
Date				21-Jun		21-Jun		21-Jun		21-Jun		21-Jun		21-Jun		21-Jun	
Site				ROCK		ROCK		ROCK		BASS		BASS		BASS		BASS	
Time				1611		1614		1616		1106		1113		1115		1116	
Mesh (um)				25		25		25		25		25		25		25	
Depth of tow (m)				20		10		5		30		20		10		5	
Volume filtered (m^3)				0.03		0.03		0,03		0.03		0.03		0.03		0.03	
Fraction enumerated				0.5		0.5		0.125		1		0.25		0.125		0.25	
SPECIES	STAGE	TAXONOMIC CODE	LENGTH m m MIN	MAX	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3
PROTOZOA																		
Foraminifera		3446	0.1	0.2		0,00		0.00		0,00		0.00		0.00		0.00		0.00
CNIDARIA																		
Meduse Juvenile		3730	0.1	0.3		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Aegina		37120101	1.0	2.0		0.00		0.00		0.00		0.00		0.00		0,00		0.00
Aglantha		37110411	1.0	3.0		0.00		0.00		0.00		0.00		0.00		0.00	1	133.33
			5.0	7.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Euphysa		37030312	1.5	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Halitholus		37031206	5.0	7.0		0.00		0.00		0.00		0.00		0,00		0.00		0.00
Obelia		37040102	0.6	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Phialidium		37040104	6.0	6.0	1	66.67		0.00		0.00		0.00		0.00		0.00		0.00
Rathkea		37031902	1.5	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Sarsia		37030609	5.0	6.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
TREMATODA																		
Flatworms		3901	0.6	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
NEMATODA																		
Nematodes		47	0.8	1,5		0.00		0.00		0.00		0.00		0.00		0.00		0,00
ROTIFERA																		
Rotifers		45	0.2	0.6	3	200.00	31	2066.67	13	3466.67		0.00		0.00		0.00		0.00
CHAETOGNATHA																		
Sagitta elegans		8300000303	10.0	17.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Chaetognath juveniles			3.0	7.0		0.00		0,00		0.00		0.00		0.00		0.00		0.00
BRYOZOA																		
Cyphonautes larvae		78	0.4	0.8		0.00		0.00	1	266.67	1	33.33		0.00	1	266.67		0.00
PHORONIDA																		
Actinotrocha larvae		77	0.8	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
MOLLUSCA																		
Limacina		51130101	0.6	2,0		0.00		0,00		0.00		0.00	1	133.33	4	1066.67	9	1200.00
Pteropod		5113	1.0	1.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Bivalve veliger		55	0,0	0.2		0.00		0.00	2	533.33		0.00		0.00		0.00		0.00
			0.2	0.4		0.00	1	66.67		0.00	3	100.00		0.00	9	2400.00	1	133.33
Gastropod veliger		51	0.0	0.2	90	6000.00	172	11466.67	135	36000.00	31	1033.33	54	7200.00	46	12266,67	32	4266.67

Appendix E. Densities of micro- and macrozooplankton.

			0,2	0.4		0.00	194	12933.33	96	25600.00		0.00	66	6800.00	71	16933.33	15	2000.00
			0.4	0.6		0.00	37	2466.67		0.00		0.00	8	1068.87	20	5333.33	15	2000.00
POLYCHAETA																		
Spionid larvae		500143	0.8	4,0		0.00	2	133.33	1	266.67		0.00	1	133.33		0.00		0.00
Polychaete larvae		5001	0.6	1.5		0,00	2	133.33		0.00	1	33.33		0.00		0.00		0.00
Trochophore larvae		5001	0.2	0,6	4	266.67	4	266.67	2	533.33		0.00		0.00		0.00		0.00
CRUSTACEA																		
CIRRIPEDIA																		
Nauplii larvae		6130	0.2	0.8	1	66.67	1	66.67	1	266.67		0.00		0.00		0.00	3	400.00
Cypris larvae		6130	0.8	1.2		0,00		0.00		0.00		0,00		0.00		0.00		0.00
CLADOCERA																		
Evadne		61090501	1.0	1.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Podon		61090502	0.6	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
COPEPODA																		
Copepod nauplii		6118	0.0	0.2	29	1933.33	113	7533.33	137	36533.33	23	766.67	86	11466.67	81	21600.00	51	6600.00
			0.2	0.4	62	4133.33	110	7333.33	66	16133.33	112	3733.33	60	8000.00	93	24800.00	106	14133.33
			0.4	0.6	1	66.67	4	266.67	2	533,33		0.00	2	266.67	2	533.33	2	266.67
			0.6	1.0		0,00		0.00		0.00		0.00		0.00		0.00		0.00
Copepodites	I-III	6118	0.2	0.4	11	733.33	5	333.33	1	266.67	6	200.00	15	2000.00	12	3200,00	9	1200.00
			0.4	0.6	13	866.67	14	933.33		0.00	25	833.33	24	3200.00	3.9	10133.33	25	3333.33
			0.6	0.8	1	66.67	4	266.67		0.00	11	366.67	13	1733.33	12	3200.00	34	4533.33
Calanus sp	I	61100102	0.5	1.1		0.00		0.00		0.00		0.00	1	133.33		0.00		0.00
	II		1.2	1.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	III		1.5	2.4		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Calanus marshallae	Iv	6118010204	2.3	2.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	v		2.8	3.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIf		3.7	4.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIm		3.5	4.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Calanus pacificus	v	6118010205	2.5	2.6		0.00		0.00		0.00	1	0.00		0.00		0.00		0.00
Neocalanus sp	Iv	61180104	3.1	4.4		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus cristatus	v	6116010201	7,1	6.9		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Neocalanus flemingeri	v		4.1	5.2		0.00		0.00		0.00		0.00		0s)0		0.00		0.00
Neocalanus plumchrus	v	6116010206	4.1	5.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Eucalanus	I	61180301	1.3	1.6		0.00		0.00		0,00		0.00		0.00		0.00		0.00
	II		1.6	2.0		0.00		0,00		0.00		0.00		0.00		0.00		0.00
	III		2.9	3.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Eucalanus bungii	Iv	6118030102	3.4	3.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	Vf		4.9	5.2		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	Vm		4.5	4.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Paracalanus parvus	v	6118040101	0.7	1.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Pseudocalanus sp. complex	Iv	61180505	0.9	1,1	3	0.00		0.00		0.00	4	0.00	9	0.00	7	0.00	16	0.00
	Vf		1.1	1.3	6	0.00		0.00		0.00	12	0.00	10	0.00	11	0.00	17	0.00
	Vm		1.0	1.3	1	0.00		0.00		0.00	2	0.00	17	0.00	7	0.00	19	0.00
	VIf		1.1	2.0	1	0.00		0.00		0.00	12	0.00	7	0.00	7	0.00	12	0.00
	VIm		1.1	1.5		0.00		0.00		0.00	17	0.00	9	0.00	8	0.00	6	0.00

Appendix E. Densities Of micro- and macrozooplankton.

Microcalanus pygmeus pusilius	V	61180504	0.6	0.7		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Metridia sp	I-m	61181602	0.5	1,1		0.00		0.00		0.00	1	0.00		0.00		0.00		0.00
Metridia pacifica	Iv	6118160214	1.1	1.3		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	Vf		1.8	2.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	Vm		1.5	1.8		0.00		0.00		0.00		0.00		0,00		0.00		0.00
	VIf		2.5	2.9		0.00		0.00		0.00		0.00		0,00		0.00		0.00
Centropages abdominalis	Iv	6118170101	0.9	1.1	1	0.00		0.00		0.00		0.00		0.00		0.00		0.00
	v		1.1	1,3		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIf		1.6	2.1		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIm		1.4	1.5		0.00		0.00		0.00		0.00		0,00		0.00		0.00
Acartia sp	I-IV	61162901	0,5	0.7		0.00	15	0.00	6	0.00		0.00	4	0.00		0.00	7	0.00
Acartia longiremis	v	6116290103	0.7	1.0	1	0.00	12	0.00	2	0.00		0.00	3	0.00		0.00		0.00
	VIf		1.0	1.3	1	0.00	1	0.00		0.00	3	0.00		0.00	1	0.00	2	0.00
	VIm		0.9	1.1	1	0.00	1	0.00		0.00		0.00		0.00		0.00	1	0.00
Acartia tumida	v	6IIB2901O5	1.5	1.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIf		2.0	2.1		0.00		0.00		0.00		0.00		0,00		0.00		0.00
	VIm		1.7	1.8		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Monstrilla	VIm	6122	1.2	1.4		0.00		0.00		0.00		0.00	1	0,00		0.00		0.00
Harpacticoida	v	6119	0.6	0.6		0.00		0.00		0.00		0.00	1	0.00		0.00		0,00
	VIf		0.7	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Microsetella	VIt	61190901	0.5	0.9		0.00		0.00		0.00	2	0.00		0.00		0.00		0.00
Oithona sp	1-IV	61200901	0.4	0.7	33	0.00	25	0.00	50	0.00	13	0.00	20	0.00	8	0.00	31	0.00
Oithona atlantica	v	6120090123	0.6	1.0	1	0.00		0.00		0.00		0.00		0,00		0.00		0,00
	VIt		1.2	1,4		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Oithona similis	v	6120090103	0.6	0.8		0.00	5	0.00	3	0.00		0.00	7	0.00		0.00		0.00
	VIf		0.7	1.0	41	0.00	20	0.00	10	0.00	52	0.00	46	Oslo	36	0.00	3	0.00
	VIm		0.5	0.7	2	0.00	5	0.00		0.00	6	0.00		0.00	3	0.00	1	0.00
Oncaea sp	v	61200103	0,5	0.7		0.00		0.00		0.00	19	0.00		0.00		0.00		0.00
Oncaea borealis	VIf	6120010301	0.6	0.7		0.00		0.00		0.00		0.00		0.00		0.00		0.00
	VIm		0.3	0,4		0.00		0.00		0.00		0.00		0.00		0.00		0.00
AMPHIPODA																		
Parathemisto pacifica		6170011003	4.0	4.0		0.00		0.00		0.00	8	0.00		0,00		0.00		0.00
Cyphocaris sp		61693411	9.0	9.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Hyperiid juveniles		6170	1,5	2.0		0.00		0.00		0.00		0.00		0.00	1	0.00		0.00
Isopod		6156	0.4	0.6		0.00		0.00		0.00		0.00		0,00		0.00		0,00
EUPHAUSIACEA																		
Thysanoessa sp		6174s)209	5.5	&O		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Euphausiid nauplii		6174	0.5	0.6		0.00	2	0.00		0.00		0.00		0.00		0.00		0.00
Euphausiid protozoea		6174	0.0	0.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
			0.5	1.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
			1.0	1.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
			1.5	2.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
			2.0	2.5		0.00		0.00		0.00		0.00		0,00		0.00		0.00
Euphausiid zoea		6174	2.0	2.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
			2.5	3,0		0.00		0.00		0.00		0.00		0.00		0.00		0.00

Appendix E. Densities of micro- and macrozooplankton.

		3.0	3,5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
		3.5	4.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Euphausiid juveniles	6174	4.5	6.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
DECAPODA																	
Caridea mysis	6179	2.5	7.0		0.00		0.00		0.00		0,00		0.00		0.00		0.00
Crangon mysis	617922	3.0	3.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Pandalus sp	617918	11.0	25.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Brachyuran zoea	6184	1.5	2,0	1	0,00		0.00		0,00		0.00	2	0.00		0.00		0.00
Paguridzoea	618306	1.5	6.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
ECHINODERMATA																	
Bipinnaria larvae	81	0.6	0.7		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Echinopluteus larvae	81	0.6	1.5		0.00	2	0.00	2	0.00		0.00		0.00		0,00		0.00
Asteroid larvae	8104	0.6	0.6		0.00		0.00		0.00		0.00		0.00		0.00		0.00
TUNICATA																	
Oikopleura	84130101	1.5	10.0		0.00		0.00		0.00		0.00	1	0.00		0.00		0.00
Fritillaria	641302	1.5	2.0	2	0.00	36	0.00	24	0.00		0.00		0.00		0.00		0.00
VERTABRATA																	
Fish eggs	8735	3.0	3.0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Fish larvae	8735	7.0	10,0		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Herring larvae	874701	6.0	9.0		0.00		0.00		0.00		0.00		0.00		0.00		0,00
MISCELLANEOUS																	
Small eggs		0.2	0.4		0,00		0.00		0.00		0.00		0.00		0.00		0.00
TOTALS FOR SAMPLE				o	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00

Appendix E. Densities of micra- and macrozooplankton.

SAMPLE NUMBER				190		191		192		193	
Date				22-Jun		22-Jun		22-Jun		22-Jun	
Site				FAIR		FAIR		FAIR		FAIR	
Time				1119		1122		1125		1127	
Mesh (urn)				25		25		25		25	
Depth of tow (m)				30		20		10		5	
Volume filtered (m^3)				0.03		0.03		0.03		0.03	
Fraction enumerated				0.5		0.25		1		0.5	
SPECIES	TAXONOMIC STAGE CODE	LENGTH m m MIN	MAX	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3	NO PER STN	NO PER M3
PROTOZOA											
Foraminifera	3446	0.1	0.2		0.00		0.00	4	133.33		0.00
CNIDARIA											
Medusa Juvenile	3730	0.1	0.3		0.00		0.00		0,00		0.00
Aegina	37120101	1.0	2.0		0.00		0.00		0.00		0.00
Aglantha	37110411	1.0	3.0	3	200.00		0,00		0.00		0.00
		5.0	7.0		0,00		0.00		0.00		0.00
Euphysa	37030312	1.5	2.0		0.00		0.00		0.00		0.00
Halitholus	37031206	5.0	7.0		0.00		0.00		0.00		0.00
Obelia	37040102	0.6	1.0		0.00		0.00		0.00		0.00
Phialidium	37040104	6.0	6.0		0.00		0.00		0.00		0,00
Rethkea	37031902	1.5	2.0		0.00		0.00		0.00		0.00
Sarsia	37030609	5.0	6.0		0.00		0.00		0.00		0.00
TREMATODA											
Flatworms	3901	0.6	1.0		0,00		0.00		0.00		0.00
NEMATODA											
Nematodes	47	0.8	1.5		0.00		0.00		0.00		0.00
ROTIFERA											
Rotifers	45	0.2	0.6		0.00		0.00	2	66.67		0.00
CHAETOGNATHA											
Sagitta elegans	8300000303	10.0	17.0		0,00		0.00		0.00		0.00
Chaetognath juveniles		3.0	7.0	1	66.67	1	133.33		0.00		0.00
BRYOZOA											
Cyphonautes larvae	7a	0.4	0.8		0.00	1	133.33		0.00		0.00
PHORONIDA											
Actinotrocha larvae	77	0.8	1.0		0.00		0.00		0.00		0.00
MOLLUSCA											
Limacina	51130101	0.6	2.o	2	133.33	2	266.67		0.00		0,00
Pteropod	5113	1.0	1.2		0.00		0.00	1	33,33		0.00
Bivalve veliger	55	0.0	0.2		0.00		0.00		0.00	13	666.67
		0.2	0.4	6	400.00		0.00		0.00	16	1066.67
Gastropod veliger	51	0.0	0.2	30	2000.00	38	5066.67	121	4033.33	35	2333.33

Appendix E. Densities of micro- and macrozooplankton.

			0.2	0.4	51	3400.00	65	8666.67	76	2533.33	32	2133.33
			0.4	0.6		0.00	1	133.33	5	166.67	7	466.67
POLYCHAETA												
Spionid larvae		500143	0.8	4.0		0.00		0.00		0.00	4	266.67
Polychaete larvae		5001	0.6	1.5		0.00		0.00		0.00		0.00
Trochophore larvae		5001	0.2	0.6	1	66.67		0.00	1	33.33	2	133.33
CRUSTACEA												
CIRRIPEDIA												
Nauplii larvae		6130	0.2	0.8		0.00		0.00		0.00	3	200.00
Cypris larvae		6130	0.6	1.2	1	66.67		0.00		0.00		0.00
CLADOCERA												
Evadne		61090501	1.0	1.2		0.00		0.00		0.00	3	200.00
Podon		61090502	0.6	1.0		0.00		0.00		0.00	1	66.67
COPEPODA												
Copepod nauplii		6118	0.0	0.2	49	3266.67	39	5200.00	143	4766.67	66	4400.00
			0.2	0.4	76	5200.00	34	4533,33	71	2366.67	119	7933.33
			0.4	0.6		0.00		0.00	3	100.00	3	200.00
			0.6	1.0		0.00		0.00		0.00		0.00
Copepodites	I-III	6118	0.2	0.4	15	1000.00		0.00	1	33.33	9	600.00
			0.4	0.6	41	2733.33	7	933.33	15	500.00	30	2000.00
			0.6	0.8	30	2000.00	3	400.00	9	300.00	14	933.33
Calanus sp	I	61180102	0.5	1.1		0.00		0.00		0.00		0.00
	II		1.2	1.5		0.00		0.00		0.00		0.00
	III		1.5	2.4		0.00		0.00		0.00		0.00
Calanus marshallae	IV	6118010204	2.3	2.6		0.00		0.00		0.00		0.00
	V		2.6	3.8		0.00		0.00		0.00		0.00
	VIf		3.7	4.2		0.00		0.00		0.00		0.00
	VIm		3.5	4.0		0,00		0.00		0.00		0.00
Calanus pacificus	V	6118010205	2.5	2.0		0.00		0.00		0.00		0.00
Neocalanus sp	IV	61180104	3.1	4.4		0.00		0.00		0.00		0.00
Neocalanus cristatus	V	6118010201	7.1	8.9		0.00		0.00		0.00		0.00
Neocalanus flemingeri	V		4.1	5.2		0.00		0.00		0.00		0.00
Neocalanus plumchrus	V	6118010206	4.1	5.2		0.00		0.00		0.00		0.00
Eucalanus	I	61180301	1.3	1.6		0.00		0.00		0.00		0.00
	II		1.6	2.0		0.00		0.00		0.00		0.00
	III		2.9	3.0		0.00		0.00		0.00		0.00
Eucalanus bungii	IV	6118030102	3.4	3.8		0.00		0.00		0.00		0.00
	VI		4.9	5.2		0.00		0.00		0.00		0.00
	Vm		4.5	4.8		0.00		0.00		0.00		0.00
Paracalanus parvus	V	6118040101	0.7	1.1		0.00		0.00	1	0.00		0.00
Pseudocalanus sp. complex	IV	61180505	0.9	1.1	4	0.00	5	0.00		0.00	4	0.00
	W		1.1	1.3	7	0.00	1	0.00	5	0.00	4	0.00
	Vm		1.0	1.3	11	0.00	1	0.00	5	0,00	1	0.00
	VIf		1.1	2.0	9	0.00	4	0.00	2	0.00	2	0.00
	VIm		1.1	1.5	1	0.00		0.00	1	0.00	2	0.00

Appendix E. Densities of micro- and macrozooplankton.

Microcalanus pygmeus pusillus	V	61180504	0.6	0.7		0.00		0.00		0.00		0.00
Metridia sp	I-III	61181602	0.5	1.1		0.00		0.00		0.00		0.00
Metridia pacifica	Iv	6118160214	1.1	1.3		0.00		0.00		0.00		0.00
	Vf		1.8	2.1		0.00		0.00		0.00		0.00
	Vm		1.5	1.8		0.00		0.00		0.00		0.00
	VIf		2.5	2.9		0.00		0.00		0.00		0.00
Centropages abdominally	Iv	6118170101	0.9	1.1		0.00		0.00	1	0.00		0.00
	v		1.1	1.3		0.00		0.00		0.00		0.00
	VIf		1.6	2.1		0.00		0.00		0.00		0.00
	VIm		1.4	1.5		0.00		0.00		0.00		0.00
Acartia sp	I-IV	61162901	0.5	0,7		0.00		0.00	3	0.00	29	0s30
Acartia longiremis	v	6118290103	0.7	1.0		0.00	1	0.00	5	0.00	3	0.00
	VIf		1.0	1.3		0.00		0.00	6	0.00	3	0.00
	VIm		0.9	1.1		0.00		0.00	1	0.00	3	0.00
Acartia tumida	v	6116290105	1.5	1.8		0.00		0.00		0.00		0.00
	VIf		2.0	2.1		0.00		0.00		0.00		0.00
	VIm		1.7	1.8		0.00		0.00		0.00		0.00
Monstrilla	VIm	6122	1.2	1.4		0.00		0.00		0.00		0.00
Harpacticoida	v	6119	0.6	0.6		0.00		0.00		0.00		0.00
	VIf		0.7	1.0		0.00		0.00		0.00		0.00
Microsetella	VIf	61190901	0.5	0.9		0.00		0.00	1	0.00		0.00
Oithona sp	1-IV	61200901	0.4	0.7	90	0.00	40	0.00	184	0.00	32	0.00
Oithona atlantica	v	6120090123	0.8	1.0		0.00		0.00		0.00		0.00
	VIf		1.2	1.4		0.00		0.00		0.00		0.00
Oithona similis	v	6120090103	0.6	0.8		0.00	8	0.00		0.00	1	003
	VIf		0.7	1.0	95	0.00	26	0.00	2	0.00	19	0.00
	Vim		0.5	0.7	9	0.00	3	0.00	1	0.00	1	0.00
Oncaea sp	v	61200103	0.5	0.7	1	0.00		0.00		0.00	1	0.00
Oncaea borealis	VIf	6120010301	0.6	0.7		0.00		0.00		0.00		0.00
	VIm		0.3	0.4		0.00		0.00		0.00		0.00
AMPHIPODA												
Parathemisto pacifica		6170011003	4,0	4.0		0.00		0.00		0.00		0,00
Cyphocaris sp		61693411	9.0	9.0		0.00		0.00		0.00		0.00
Hyperiid juveniles		6170	1.5	2.0		0.00		0.00		0.00		0.00
Isopod		6158	0.4	0.6		0.00		0.00		0.00		0.00
EUPHAUSIACEA												
Thysanoessa sp		61740209	5.5	8.0		0.00		0.00		0.00		0.00
Euphausiid nauplii		6174	0.5	0.6		0.00		0.00		0.00	1	0.00
Euphausiid protozoea		6174	0.0	0.5		0.00		0.00		0.00	2	0.00
			0.5	1.0		0.00		0.00		0.00	3	0.00
			1.0	1.5		0.00		0.00		0.00		0.00
			1.5	2.0		0.00		0.00		0.00		0.00
			2.0	2.5		0.00		0.00		0.00		0.00
Euphausiid zoea		6174	2.0	2.5		0.00		0.00		0.00		0.00
			2.5	3.0		0.00		0.00		0.00		0.00

Appendix E. Densities of micro- and macrozooplankton.

		3.0	3.5		0.00		0.00		0.00		0.00
		3.5	4.0		0.00		0,00		0.00		0.00
Euphausiid juveniles	6174	4.5	6.0		0,00		0.00		0.00		0.00
DECAPODA											
Caridea mysis	6179	2.5	7.0		0.00		0.00		0.00		0.00
Crangon mysis	617922	3.0	3.0		0.00		0.00		0.00		0.00
Pandalus sp	617916	11.0	25.0		0.00		0.00		0.00		0.00
Brachyuran zoaa	6184	1.5	2.0		0.00		0.00		0.00		0.00
Pagurid zoea	616306	1.5	6.0		0.00		0.00		0.00		0.00
ECHINODERMATA											
Bipinnaria larvae	81	0.6	0.7		0.00		0.00		0.00		0.00
Echinopluteus larvae	81	0.6	1.5		0.00		0.00	1	0.00		0.00
Asteroid larvae	8104	0.6	0.6		0.00		0.00		0.00		0.00
TUNICATA											
Oikopleura	84130101	1.5	10.0	3	0.00	3	0.00		0.00		0.00
Fritillaria	841302	1.5	2.o		0.00		0.00	5	0.00	5	0.00
VERTABRATA											
Fish eggs	8735	3.0	3.0		0.00		0.00		0.00		0.00
Fish larvae	8735	7.0	10.0		0.00		0.00		0.00		0.00
Herring larvae	874701	6.0	9.0		0.00		0.00		0.00		0.00
MISCELLANEOUS											
Small eggs		0.2	0.4		0.00		0.00		0.00		0.00
TOTALS FOR SAMPLE				0	0.00	0	0.00	0	0.00	0	0.00

Appendix F. Concentrations (mg mu-3) of prey for herring larvae of Prince William Sound, 1989.

Herring length class (mm) (upper limit)	2-May TAT	2-May FAIR	3-May BASS	3-May ROCK	11-May TAT	12-May FAIR	12-May BASS	12-May ROCK
8.9	3.3765	1.3224	3.2654	3.2659	3.2629	3.4607	3.5300	2.7985
9.9	3.3765	1.3224	3.2654	3.2659	3.2629	3.4607	3.5300	2.7985
10.9	3.3765	1.3224	3.2654	3.2659	3.2629	3.4607	3.5300	2.7985
11.9	31.4144	16.5691	29.1249	34.9754	26.7920	48.0331	34.4780	22.8765
12.9	31.4144	16.5691	29.1249	34.9754	26.7920	46.0331	34.4780	22.8765
13.9	31.5747	17.3024	29.4556	35.2324	27.3928	49.4771	34.6941	23.5489
14.9	31.5747	17.3024	29.4556	35.2324	27.3928	49.4771	34.6941	23.5489
15.9	31.8903	18.2303	32.0592	37.4459	28.2204	49.9508	36.9909	24.5415
16.9	39.1999	25.0725	35.7988	#.3973	36.3111	56.6676	43.7971	28.1805
17.9	41.8782	28.3008	37.6387	49.7306	36.7010	58.2298	44.0212	29.5980
18.9	41.8782	28.3008	37.6387	49.7306	36.7010	58.2298	44.0212	29.5980
19.9	41.8782	28.4012	37.7444	49.9153	36.7010	58.6911	44.2426	29.5980
20.9	41.8782	28.4012	37.7444	49.9153	36.7010	58.6911	44.2426	29.5980
21.9	68.1930	71.4738	43.8778	80.0879	50.7572	72.8980	64.0581	44.3819
22.9	68.1930	71.4738	43.8778	80.0879	50.7572	72.8980	64.0581	44.3819
23.9	69.7023	73.1176	44.5697	82.5079	51.5112	79.6947	65.6856	52.8220
24.9	69.7023	73.1176	44.5697	82.5079	51.5112	79.6947	65.6856	52.8220
25.9	69.7023	73.8846	44.5697	83.4491	55.9100	79.6947	65.8199	55.2838
26.9	69.7023	73.8846	44.5697	83.4491	55.9100	79.6947	65.8199	55.2838
27.9	113.2646	170.6418	79.8812	109.8890	217.8916	175.6653	84.6382	172.3755
28.9	113.2646	170.6418	79.8812	109.8890	217.8916	175.6653	84.6382	172.3755
29.9	113.2646	170.6418	80.5555	110.0855	218.2591	176.4013	84.6382	172.3755
30.9	113.2646	170.6418	80.5555	110.0855	218.2591	176.4013	84.6382	172.3755

Appendix F. Concentrations (mg mu-3) of prey for herring larvae of Prince William Sound, 1989.

Herring length class (mm) (upper limit)	20-May TAT	21-May ROCK	21-May BASS	21-May FAIR	30-May TAT	30-May ROCK	29-May BASS	29-May FAIR
8.9	3.0574	3.3313	4.9256	3.3546	4.3893	3.4323	4.3800	7.2832
9.9	3.0574	3.3313	4.9256	3.3546	4.3893	3.4323	4.3800	7.2832
10.9	3.0574	3.3313	4.9256	3.3546	4.3893	3.4323	4.3800	7.2832
11.9	22.1811	43.2847	56.7366	36.3428	61.3165	30.5283	42.7090	46.2596
12.9	22.1811	43.2847	56.7366	36.3428	61.3165	30.5283	42.7090	46.2596
13.9	22.3698	43.3572	57.7029	36.5667	62.4428	30.5283	43.1593	47.0030
14.9	22.3698	43.3572	57.7029	36.5667	62.4428	30.5283	43.1593	47.0030
15.9	22.6021	44.0710	59.0863	37.7785	63.9470	31.5603	47.8125	49.6365
16.9	24.5234	46.8215	70.9995	54.0766	67.5035	44.1581	55.2448	54.0521
17.9	26.2082	47.3158	71.5697	55.7116	73.9005	44.7769	56.6157	56.7061
18.9	26.2082	47.3158	71.5697	55.7116	73.9005	44.7769	56.6157	56.7061
19.9	26.2082	47.3158	71.5697	55.7116	73.9005	44.7769	56.6157	56.7061
20.9	26.2082	47.3158	71.5697	55.7116	73.9005	44.7769	56.6157	56.7061
21.9	32.4777	50.3414	87.3574	73.3016	76.4746	60.5728	67.2850	66.5502
22.9	32.4777	50.3414	87.3574	73.3016	76.4746	60.5728	67.2850	66.5502
23.9	33.2182	51.5174	89.5628	74.7068	80.2612	60.7972	67.5205	80.3129
24.9	33.2182	51.5174	89.5628	74.7068	80.2612	60.7972	67.5205	80.3129
25.9	33.2182	51.5550	89.5628	74.7068	80.2612	61.1462	67.5205	80.8573
26.9	33.2182	51.5550	89.5628	74.7068	80.2612	61.1462	67.5205	80.8573
27.9	54.5966	59.3746	128.6429	145.4015	93.0986	68.2142	87.1209	117.9745
28.9	54.5966	59.3746	128.6429	145.4015	93.0986	68.2142	87.1209	117.9745
29.9	54.5966	59.3746	128.6429	145.4015	93.0986	68.2142	87.5800	117.9745
30.9	54.5966	59.3746	128.6429	145.4015	93.0986	68.2142	87.5800	117.9745

Appendix F. Concentrations (mg m^-3) of prey for herring larvae of Prince William Sound, 1989.

Herring length class (mm) (upper limit)	7Jun FAIR	8-Jun BASS	7Jun ROCK	7-Jun TAT	12-Jun TAT	13-Jun FAIR	12Jun ROCK	13-Jun BASS
8.9	9.2642	2.6608	6.7289	4.2662	7.1859	4.7707	4.8934	4.8315
9.9	9.2642	2.6608	6.7289	4.2662	7.1859	4.7707	4.8934	4.8315
10.9	9.2642	2.6608	6.7289	4.2662	7.1859	4.7707	4.6934	4.8315
11.9	56.3004	32.3938	112.1078	49.8593	93.4424	51.5136	73.5735	73.3937
12.9	56.3004	32.3938	112.1078	49.8593	93.4424	51.5136	73.5735	73.3937
13.9	56.6414	33.4476	114.4215	49.9895	94.7259	51.7168	74.5812	76.0835
14.9	56.6414	33.4476	114.4215	49.9895	94.7259	51.7166	74.5812	76.0835
15.9	57.5362	35.3272	119.8862	50.3740	100.0936	53.4662	76.9687	77.5609
16.9	66.9700	50.4222	147.9787	75.7399	131.3225	91.5686	85.6645	90.7590
17.9	67.9537	51.1274	150.9825	77.8535	131.3225	95.8546	86.1491	91.8756
18.9	67.9537	51.1274	150.9825	77.8535	131.3225	95.8546	86.1491	91.8756
19.9	67.9537	51.1274	150.9825	77.8535	131.4763	95.8546	86.1491	91.8756
20.9	67.9537	51.1274	150.9825	77.8535	131.4763	95.8546	86.1491	91.8756
21.9	87.9749	82.4095	158.5408	91.2405	201.0817	110.5273	96.5160	111.9435
22.9	87.9749	82.4095	158.5408	91.2405	201.0817	110.5273	96.5160	111.9435
23.9	90.2337	84.0628	167.2534	96.7580	204.6057	115.9462	96.7502	113.4157
24.9	90.2337	84.0628	167.2534	96.7580	204.6057	115.9462	96.7502	113.4157
25.9	90.5110	84.0628	167.2534	96.7580	208.1298	115.9462	96.7502	113.6449
26.9	90.5110	84.0628	167.2534	96.7580	208.1298	115.9462	96.7502	113.6449
27.9	98.1001	104.3346	185.4462	110.1119	221.3855	130.6858	107.6772	120.8036
28.9	98.1001	104.3348	185.4462	110.1119	221.3855	130.6858	107.6772	120.8036
29.9	98.1001	104.3348	185.9179	110.1119	222.3668	130.6858	107.6772	120.8036
30.9	98.1001	104.3348	185.9179	110.1119	222.3666	130.6858	107.6772	120.8036

Appendix F. Concentrations (mg mu-3) of prey for herring la

Herring length class (mm) (upper limit)	20-Jun TAT	21 -Jun ROCK	21 -Jun BASS	22-Jun FAIR
8.9	3.9061	9.5383	12.3194	5.6643
9.9	3.9061	9.5383	12.3194	5.6643
10.9	3.9061	9.5383	12.3194	5.6643
11.9	45.3349	118.6677	131.0591	61.4341
12.9	45.3349	118.6677	131.0591	61.4341
13.9	45.3969	124.6833	131.0591	64.8222
14.9	45.3969	124.6833	131.0591	64.8222
15.9	49.2408	129.4426	135.2584	68.3788
16.9	86.9692	174.0179	328.3104	102.6595
17.9	88.3778	177.0806	329.3686	107.0582
18.9	88.3778	177.0806	329.3686	107.0582
19.9	88.3778	177.0806	329.3686	107.0582
20.9	88.3778	177.0806	329.3686	107.0582
21.9	123.9444	190.2451	421.0853	140.4107
22.9	123.9444	190.2451	421.0853	140.4107
23.9	124.5281	193.2063	422.6607	142.5371
24.9	124.5281	193.2063	422.6607	142.5371
25.9	124.5281	194.0699	422.6607	142.5371
26.9	124.5281	194.0699	422.6607	142.5371
27.9	141.4843	228.0654	482.7974	178.9564
28.9	141.4843	228.0654	482.7974	178.9564
29.9	141.4843	228.0654	482.7974	180.3380
30.9	141.4843	228.0654	482.7974	180.3380

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
2-May-89	Tatitlek Narrows	6	1	6.0	7.3
2-May-89	Tatitlek Narrows	6	1	6.8	7.9
2-May-89	Tatitlek Narrows	6	1	7.1	8.2
2-May-89	Tatitlek Narrows	6	1	7.2	8.3
2-May-68	Tatitlek Narrows	6	1	7.4	8.4
2-May-89	Tatitlek Narrows	6	1	7.4	8.4
2-May-89	Tatitlek Narrows	6	1	7.4	8.4
2-May-88	Tatitlek Narrows	6	1	7.4	8.4
2-May-89	Tatitlek Narrows	6	1	7.s	8.5
2-May-89	Tatitlek Narrows	6	1	7.5	8.5
2-May-89	Tatitlek Narrows	6	1	7.5	8.5
2-May-89	Tatitlek Narrows	6	1	7.5	8.5
2-May-89	Tatitlek Narrows	6	1	7.5	8.5
2-May-89	Tatitlek Narrows	6	1	7.5	8.5
2-May-89	Tatitlek Narrows	6	1	7.7	8.7
2-May-89	Tatitlek Narrows	6	1	7.7	8.7
2-May-89	Tatitlek Narrows	6	1	7.7	8.7
2-May-89	Tatitlek Narrows	6	1	7.7	8.7
2-May-89	Tatitlek Narrows	6	1	7.7	8.7
2-May-89	Tatitlek Narrows	6	1	7.7	8.7
2-May-89	Tatitlek Narrows	6	1	7.7	8.7
2-May-89	Tatitlek Narrows	6	1	7.7	8.7
2-May-89	Tatitlek Narrows	6	1	7.8	8.8
2-May-89	Tatitlek Narrows	6	1	7.8	8.8
2-May-89	Tatitlek Narrows	6	1	7.8	8.8
2-May-89	Tatitlek Narrows	6	1	7.8	8.8
2-May-89	Tatitlek Narrows	6	1	7.8	8.8
2-May-89	Tatitlek Narrows	6	1	7.8	8.8
2-May-88	Tatitlek Narrows	6	1	7.8	8.8
2-May-89	Tatitlek Narrows	6	1	7.8	8.8
2-May-89	Tatitlek Narrows	6	1	7.8	8.8
2-May-89	Tatitlek Narrows	6	1	7.8	8.8
2-May-89	Tatitlek Narrows	6	1	7.8	8.8
2-May-89	Tatitlek Narrows	6	1	7.8	8.8
2-May-89	Tatitlek Narrows	6	1	7.8	8.8
2-May-89	Tatitlek Narrows	6	1	7.8	8.8
2-May-89	Tatitlek Narrows	6	1	7.8	8.8
2-May-89	Tatitlek Narrows	6	1	7.8	8.8
2-May-69	Tatitlek Narrows	6	1	8.0	8.9
2-May-89	Tatitlek Narrows	6	1	8.0	8.9
2-May-89	Tatitlek Narrows	6	1	8.0	8.9

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
2-May-89	Tatitlek Narrows	6	1	8.0	8.9
2-May-89	Tatitlek Narrows	6	1	8.0	8.9
2-May-89	Tatitlek Narrows	6	1	8.0	8.9
2-May-89	Tatitlek Narrows	6	1	8.0	8.9
2-May-89	Tatitlek Narrows	6	1	8.0	8.9
2-May-89	Tatitlek Narrows	6	1	8.0	8.9
2-May-69	Tatitlek Narrows	6	1	8.0	8.9
2-May-89	Tatitlek Narrows	6	1	8.1	9.0
2-May-89	Tatitlek Narrows	6	1	8.1	9.0
2-May-89	Tatitlek Narrows	6	1	8.1	9.0
2-May-89	Tatitlek Narrows	6	1	8.1	9.0
2-May-89	Tatitlek Narrows	6	1	8.1	9.0
2-May-89	Tatitlek Narrows	6	1	8.1	9.0
2-May-89	Tatitfek Narrows	6	1	8.1	9.0
2-May-89	Tatitlek Narrows	6	1	8.1	9.0
2-May-89	Tatitlek Narrows	6	1	8.1	9.0
2-May-89	Tatitlek Narrows	6	1	8.1	9.0
2-May-89	Tatitlek Narrows	6	1	8.1	9.0
2-May-89	Tatitlek Narrows	6	1	8.1	9.0
2-May-89	Tatitlek Narrows	6	1	8.1	9.0
2-May-89	Tatitlek Narrows	6	1	8.3	9.2
2-May-89	Tatitlek Narrows	6	1	8.3	9.2
2-May-89	Tatitlek Narrows	6	1	8.3	9.2
2-May-89	Tatitlek Narrows	6	1	8.3	9.2
2-May-89	Tatitlek Narrows	6	1	8.3	9.2
2-May-89	Tatitlek Narrows	6	1	8.3	9.2
2-May-89	Tatitlek Narrows	6	1	8.3	9.2
2-May-89	Tatitlek Narrows	6	1	8.3	9.2
2-May-89	Tatitlek Narrows	6	1	8.3	9.2
2-May-89	Tatitlek Narrows	6	1	8.3	9.2
2-May-89	Tatitlek Narrows	6	1	8.3	9.2
2-May-89	Tatitlek Narrows	6	1	8.3	9.2
2-May-89	Tatitlek Narrows	6	1	8.3	9.2
2-May-89	Tatitlek Narrows	6	1	8.3	9.2
2-May-89	Tatitfek Narrows	6	1	8.4	9.3
2-May-89	Tatitlek Narrows	6	1	8.4	9.3
2-May-89	Tatitlek Narrows	6	1	8.4	9.3
2-May-89	Tatitlek Narrows	6	1	8.4	9.3
2-May-89	Tatitlek Narrows	6	1	8.4	9.3

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
2-May-89	Tatitlek Narrows	6	1	8.4	9.3
2-May-89	Tatitlek Narrows	6	1	8.4	9.3
2-May-89	Tatitlek Narrows	6	1	8.4	9.3
2-May-89	Tatitlek Narrows	6	1	8.4	9.3
2-May-89	Tatitlek Narrows	6	1	8.6	9.4
2-May-89	Tatitlek Narrows	6	1	8.6	9.4
2-May-89	Tatitlek Narrows	6	1	8.6	9.4
2-May-89	Tatitlek Narrows	6	2	8.6	9.4
2-May-89	Tatitlek Narrows	6	1	8.6	9.4
2-May-89	Tatitlek Narrows	6	1	8.7	9.6
2-May-89	Tatitlek Narrows	6	1	8.7	9.6
2-May-89	Tatitlek Narrows	6	1	8.7	9.6
2-May-89	Tatitlek Narrows	6	1	8.7	9.6
2-May-89	Tatitlek Narrows	6	1	8.7	9.6
2-May-89	Tatitlek Narrows	6	1	8.9	9.7
2-May-89	Tatitlek Narrows	6	1	8.9	9.7
2-May-89	Tatitlek Narrows	6	1	8.9	9.7
2-May-89	Tatitlek Narrows	6	1	9.0	9.8
2-May-89	Tatitlek Narrows	6	1	9.0	9.8
2-May-89	Tatitlek Narrows	6	1	9.2	10.0
2-May-89	Fairmount Is.	13	1	6.2	7.4
2-May-89	Fairmount Is.	13	1	6.6	7.8
2-May-89	Fairmount Is.	13	1	6.8	7.9
2-May-89	Fairmount Is.	13	1	6.8	7.9
2-May-89	Fairmount Is.	13	1	6.8	7.9
2-May-89	Fairmount Is.	13	1	6.8	7.9
2-May-89	Fairmount Is.	13	1	6.9	8.0
2-May-89	Fairmount Is.	13	1	6.9	8.0
2-May-89	Fairmount Is.	13	1	6.9	8.0
2-May-89	Fairmount Is.	13	1	6.9	8.0
2-May-89	Fairmount Is.	13	1	7.1	8.2
2-May-89	Fairmount Is.	13	1	7.1	8.2
2-May-89	Fairmount is.	13	1	7.1	8.2
2-May-89	Fairmount Is.	13	1	7.1	8.2
2-May-89	Fairmount Is.	13	1	7.1	8.2
2-May-89	Fairmount Is.	13	1	7.2	8.3
2-May-69	Fairmount Is.	13	1	7.2	8.3
2-May-89	Fairmount Is.	13	1	7.2	8.3
2-May-89	Fairmount 1s.	13	1	7.2	8.3

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
2-May-89	Fairmount Is.	13	1	7.2	8.3
2-May-89	Fairmount Is.	13	1	7.2	8.3
2-May-89	Fairmount Is.	13	1	7.4	8.4
2-May-89	Fairmount Is.	13	1	7.4	8.4
2-May-89	Fairmount Is.	13	1	7.4	8.4
2-May-89	Fairmount Is.	13	1	7.4	8.4
2-May-89	Fairmount Is.	13	1	7.5	8.5
2-May-89	Fairmount Is.	13	1	7.5	8.5
2-May-89	Fairmount Is.	13	1	7.5	8.5
2-May-89	Fairmount Is.	13	1	7.5	8.5
2-May-89	Fairmount Is.	13	1	7.5	8.5
2-May-89	Fairmount Is.	13	1	7.5	8.5
2-May-89	Fairmount Is.	13	2	7.5	8.5
2-May-89	Fairmount Is.	13	1	7.5	8.5
2-May-89	Fairmount Is.	13	1	7.5	8.5
2-May-89	Fairmount Is.	13	1	7.5	8.5
2-May-89	Fairmount Is.	13	1	7.5	8.5
2-May-89	Fairmount Is.	13	1	7.5	8.5
2-May-89	Fairmount Is.	13	1	7.5	8.5
2-May-89	Fairmount Is.	13	1	7.5	8.5
2-May-89	Fairmount Is.	13	1	7.7	8.7
2-May-89	Fairmount Is.	13	1	7.7	8.7
2-May-89	Fairmount Is.	13	1	7.7	8.7
2-May-89	Fairmount Is.	13	1	7.7	8.7
2-May-89	Fairmount Is.	13	1	7.7	8.7
2-May-89	Fairmount 1s.	13	1	7.7	8.7
2-May-89	Fairmount Is.	13	2	7.7	8.7
2-May-89	Fairmount Is.	13	1	7.8	8.8
2-May-89	Fairmount Is.	13	1	7.8	8.8
2-May-89	Fairmount Is.	13	1	7.8	8.8
2-May-89	Fairmount Is.	13	1	7.8	8.8
2-May-89	Fairmount Is.	13	1	7.8	8.8
2-May-89	Fairmount Is.	13	1	7.8	8.8
2-May-89	Fairmount Is.	13	1	7.8	8.8
2-May-89	Fairmount Is.	13	1	7.8	8.8
2-May-89	Fairmount Is.	13	1	8.0	8.9
2-May-89	Fairmount Is.	13	2	8.0	8.9
2-May-89	Fairmount Is.	13	1	8.0	8.9
2-May-89	Fairmount Is.	13	1	8.0	8.9

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
2-May-89	Fairmount Is.	13	1	8.0	8.9
2-May-89	Fairmount Is.	13	1	8.1	9.0
2-May-89	Fairmount Is.	13	1	8.1	9.0
2-May-89	Fairmount Is.	13	1	8.1	9.0
2-May-89	Fairmount Is.	13	1	8.1	9.0
2-May-89	Fairmount Is.	13	1	8.1	9.0
2-May-89	Fairmount 1s.	13	1	8.3	9.2
2-May-89	Fairmount Is.	13	1	8.3	9.2
2-May-89	Fairmount Is.	13	1	8.3	9.2
2-May-89	Fairmount Is.	13	1	8.3	9.2
2-May-89	Fairmount Is.	13	1	8.3	9.2
2-May-89	Fairmount Is.	13	1	8.3	9.2
2-May-89	Fairmount Is.	13	1	8.3	9.2
2-May-89	Fairmount Is.	13	1	8.3	9.2
2-May-89	Fairmount Is.	13	1	8.3	9.2
2-May-89	Fairmount Is.	13	2	8.3	9.2
2-May-89	Fairmount Is.	13	2	8.3	9.2
2-May-89	Fairmount Is.	13	2	8.3	9.2
2-May-89	Fairmount Is.	13	1	8.3	9.2
2-May-89	Fairmount Is.	13	1	8.4	9.3
2-May-89	Fairmount Is.	13	1	8.4	9.3
2-May-89	Fairmount Is.	13	1	8.6	9.4
2-May-89	Fairmount Is.	13	1	8.6	9.4
2-May-89	Fairmount Is.	13	1	8.6	9.4
2-May-89	Fairmount Is.	13	2	8.6	9.4
2-May-89	Fairmount Is.	13	1	8.6	9.4
2-May-89	Fairmount Is.	13	2	8.9	9.7
2-May-89	Fairmount Is.	13	1	8.9	9.7
2-May-89	Fairmount Is.	13	1	8.9	9.7
2-May-89	Fairmount Is.	13	1	8.9	9.7
2-May-89	Fairmount Is.	13	1	8.9	9.7
2-May-89	Fairmount Is.	13	1	9.0	9.8
2-May-89	Fairmount Is.	13	1	9.0	9.8
2-May-89	Fairmount Is.	13	1	9.0	9.8
2-May-89	Fairmount Is.	13	2	9.0	9.8
2-May-89	Fairmount Is.	13	2	9.2	10.0
2-May-89	Fairmount Is.	13	1	9.3	10.1
2-May-89	Fairmount Is.	13	1	9.3	10.1
2-May-89	Fairmount Is.	13	1	9.5	10.2
2-May-89	Fairmount Is.	13	2	9.5	10.2

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
2-May-89	Fairmount Is.	13	2	9.6	10.3
3-May-89	Bass Harbor	20	2	6.3	7.5
3-May-89	Bass Harbor	20	1	6.3	7.5
3-May-89	Bass Harbor	20	2	6.3	7.5
3-May-89	Bass Harbor	20	1	6.5	7.6
3-May-89	Bass Harbor	20	2	6.5	7.6
3-May-89	Bass Harbor	20	1	6.5	7.6
3-May-89	Bass Harbor	20	1	6.6	7.8
3-May-89	Bass Harbor	20	2	6.6	7.8
3-May-89	Bass Harbor	20	2	6.8	7.9
3-May-89	Bass Harbor	20	2	6.8	7.9
3-May-89	Bass Harbor	20	1	6.8	7.9
3-May-89	Bass Harbor	20	2	6.8	7.9
3-May-89	Bass Harbor	20	2	6.8	7.9
3-May-89	Bass Harbor	20	1	6.8	7.9
3-May-89	Bass Harbor	20	1	6.8	7.9
3-May-89	Bass Harbor	20	2	6.8	7.9
3-May-89	Bass Harbor	20	1	6.9	8.0
3-May-89	Bass Harbor	20	1	6.9	8.0
3-May-89	Bass Harbor	20	2	6.9	8.0
3-May-89	Bass Harbor	20	1	6.9	8.0
3-May-89	Bass Harbor	20	1	6.9	8.0
3-May-89	Bass Harbor	20	2	7.1	8.2
3-May-89	Bass Harbor	20	1	7.1	8.2
3-May-89	Bass Harbor	20	2	7.1	8.2
3-May-89	Bass Harbor	20	2	7.1	8.2
3-May-89	Bass Harbor	20	1	7.1	8.2
3-May-89	Bass Harbor	20	1	7.1	8.2
3-May-89	Bass Harbor	20	1	7.1	8.2
3-May-89	Bass Harbor	20	1	7.1	8.2
3-May-89	Bass Harbor	20	2	7.1	8.2
3-May-89	Bass Harbor	20	1	7.1	8.2
3-May-89	Bass Harbor	20	2	7.1	8.2
3-May-89	Bass Harbor	20	2	7.1	8.2
3-May-89	Bass Harbor	20	1	7.1	8.2
3-May-89	Bass Harbor	20	1	7.1	8.2
3-May-89	Bass Harbor	20	1	7.1	8.2
3-May-89	Bass Harbor	20	2	7.2	8.3
3-May-89	Bass Harbor	20	1	7.2	8.3

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sampfe number	Yolk	Measured length (mm)	Capture-corrected length (mm)
3-May-89	Bass Harbor	20	1	7.2	8.3
3-May-89	Bass Harbor	20	1	7.2	8.3
3-May-89	Bass Harbor	20	1	7.2	8.3
3-May-89	Bass Harbor	20	1	7.2	8.3
3-May-89	Bass Harbor	20	1	7.2	8.3
3-May-89	Bass Harbor	20	1	7.2	8.3
3-May-89	Bass Harbor	20	2	7.4	8.4
3-May-89	Bass Harbor	20	2	7.4	8.4
3-May-89	Bass Harbor	20	2	7.4	8.4
3-May-89	Bass Harbor	20	1	7.4	8.4
3-May-89	Bass Harbor	20	1	7.4	8.4
3-May-89	Bass Harbor	20	1	7.4	8.4
3-May-89	Bass Harbor	20	2	7.5	8.5
3-May-89	Bass Harbor	20	1	7.5	8.5
3-May-89	Bass Harbor	20	1	7.5	8.5
3-May-89	Bass Harbor	20	2	7.5	8.5
3-May-89	Bass Harbor	20	2	7.5	8.5
3-May-89	Bass Harbor	20	2	7.5	8.5
3-May-89	Bass Harbor	20	1	7.5	8.5
3-May-89	Bass Harbor	20	1	7.5	8.5
3-May-89	Bass Harbor	20	1	7.5	8.5
3-May-89	Bass Harbor	20	1	7.5	8.5
3-May-89	Bass Harbor	20	2	7.5	8.5
3-May-89	Bass Harbor	20	2	7.5	8.5
3-May-89	Bass Harbor	20	1	7.5	8.5
3-May-89	Bass Harbor	20	1	7.5	8.5
3-May-89	Bass Harbor	20	2	7.5	8.5
3-May-89	Bass Harbor	20	1	7.5	8.5
3-May-89	Bass Harbor	20	1	7.7	8.7
3-May-89	Bass Harbor	20	1	7.7	8.7
3-May-89	Bass Harbor	20	2	7.7	8.7
3-May-89	Bass Harbor	20	1	7.7	8.7
3-May-89	Bass Harbor	20	1	7.7	8.7
3-May-89	Bass Harbor	20	1	7.7	8.7
3-May-89	Bass Harbor	20	1	7.7	8.7
3-May-89	Bass Harbor	20	2	7.7	8.7
3-May-89	Bass Harbor	20	2	7.8	8.8
3-May-89	Bass Harbor	20	1	7.8	8.8
3-May-89	Bass Harbor	20	1	7.8	8.8
3-May-89	Bass Harbor	20	1	7.8	8.8

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Siie	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
3-May-89	Bass Harbor	20	1	7.8	8.8
3-May-89	Bass Harbor	20	1	7.8	8.8
3-May-89	Bass Harbor	20	1	7.8	8.8
3-May-89	Bass Harbor	20	2	7.8	8.8
3-May-89	Bass Harbor	20	1	7.8	8.8
3-May-89	Bass Harbor	20	2	8.0	8.9
3-May-89	Bass Harbor	20	1	8.0	8.9
3-May-89	Bass Harbor	20	1	8.0	8.9
3-May-89	Bass Harbor	20	1	8.0	8.9
3-May-89	Bass Harbor	20	1	8.0	8.9
3-May-89	Bass Harbor	20	1	8.0	8.9
3-May-89	Bass Harbor	20	1	8.0	8.9
3-May-89	Bass Harbor	20	1	8.0	8.9
3-May-89	Bass Harbor	20	1	8.0	8.9
3-May-89	Bass Harbor	20	1	8.1	9.0
3-May-89	Bass Harbor	20	2	8.1	9.0
3-May-89	Bass Harbor	20	2	8.1	9.0
3-May-89	Bass Harbor	20	1	8.3	9.2
3-May-89	Bass Harbor	20	1	8.3	9.2
3-May-89	Bass Harbor	20	2	8.3	9.2
3-May-89	Bass Harbor	20	2	9.3	10.1
3-May-89	Bass Harbor	20	1	9.8	10.5
3-May-119	Rocky Bay	27	1	7.1	8.2
3-May-89	Rocky Bay	27	1	7.2	8.3
3-May-89	Rocky Bay	27	1	7.8	8.8
3-May-89	Rocky Bay	27	2	11.6	12.1
11-May-89	Tatitfek Narrows	34	1	7.2	8.3
11-May-89	Tatitlek Narrows	34	1	7.5	8.5
11-May-89	Tatitlek Narrows	34	1	7.5	8.5
11-May-89	Tatitlek Narrows	34	1	7.5	8.5
11-May-89	Tatitlek Narrows	34	2	7.7	8.7
11-May-89	Tatitlek Narrows	34	1	7.8	8.8
11-May-89	Tatitlek Narrows	34	1	7.8	8.8
11-May-89	Tatitlek Narrows	34	1	7.8	8.8
11-May-89	Tatitlek Narrows	34	2	8.0	8.9
11-May-89	Tatitfek Narrows	34	1	8.0	8.9
11-May-89	Tatitlek Narrows	34	1	8.0	8.9
11-May-89	Tatitlek Narrows	34	1	8.0	8.9

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
1 1-May-89	Tatitlek Narrows	34	2	8.1	9.0
1 l-May-89	Tatitlek Narrows	34	1	8.1	9.0
11-May-89	Tatitlek Narrows	34	2	8.1	9.0
11-May-89	Tatitlek Narrows	34	1	8.3	9.2
11-May-89	Tatitlek Narrows	34	2	8.3	9.2
11-May-89	Tatitlek Narrows	34	2	8.3	9.2
11-May-89	Tatitlek Narrows	34	2	8.3	9.2
11-May-89	Tatitlek Narrows	34	1	8.3	9.2
11-May-89	Tatitlek Narrows	34	1	8.3	9.2
11-May-89	Tatitlek Narrows	34	2	8.3	9.2
1 l-May-89	Tatitlek Narrows	34	2	8.3	9.2
1 l-May-89	Tatitlek Narrows	34	1	8.3	9.2
11-May-89	Tatitlek Narrows	34	1	8.3	9.2
11-May-89	Tatitlek Narrows	34	1	8.3	9.2
11-May-89	Tatitlek Narrows	34	1	8.3	9.2
11-May-89	Tatitlek Narrows	34	2	8.3	9.2
11-May-89	Tatitlek Narrows	34	2	8.3	9.2
11-May-89	Tatitlek Narrows	34	1	8.3	9.2
11-May-89	Tatitlek Narrows	34	1	8.4	9.3
11-May-89	Tatitlek Narrows	34	2	8.4	9.3
11-May-89	Tatitlek Narrows	34	1	8.4	9.3
11-May-89	Tatitlek Narrows	34	2	8.4	9.3
11-May-89	Tatitlek Narrows	34	1	8.4	9.3
11-May-89	Tatitlek Narrows	34	1	8.4	9.3
1 l-May-89	Tatitlek Narrows	34	2	8.4	9.3
11-May-89	Tatitlek Narrows	34	2	8.6	9.4
11-May-89	Tatitlek Narrows	34	1	8.6	9.4
11-May-89	Tatitlek Narrows	34	1	8.6	9.4
11 -May-89	Tatitlek Narrows	34	2	8.6	9.4
11-May-89	Tatitlek Narrows	34	1	8.6	9.4
1 l-May-89	Tatitlek Narrows	34	2	8.6	9.4
11-May-89	Tatitlek Narrows	34	2	8.6	9.4
11-May-89	Tatitfek Narrows	34	2	8.6	9.4
11-May-89	Tatitlek Narrows	34	1	8.6	9.4
11-May-89	Tatitlek Narrows	34	2	8.6	9.4
1 l-May-89	Tatitlek Narrows	34	1	8.7	9.6
11-May-89	Tatitlek Narrows	34	2	8.7	9.6
11-May-89	Tatitlek Narrows	34	2	8.7	9.6
11-May-89	Tatitlek Narrows	34	2	8.7	9.6
11-May-89	Tatitlek Narrows	34	2	8.7	9.6

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
11-May-89	Tatitfek Narrows	34	2	8.7	9.6
11-May-89	Tatitfek Narrows	34	1	8.7	9.6
11-May-89	Tatitlek Narrows	34	2	8.7	9.6
11-May-89	Tatitfek Narrows	34	1	8.7	9.6
11-May-89	Tatitlek Narrows	34	2	8.7	9.6
11-May-89	Tatitlek Narrows	34	2	8.7	9.6
1 l-May-89	Tatitlek Narrows	34	2	8.9	9.7
11 -May-89	Tatitlek Narrows	34	1	8.9	9.7
11-May-89	Tatitlek Narrows	34	2	8.9	9.7
11 -May-89	Tatitlek Narrows	34	2	8.9	9.7
11-May-89	Tatitlek Narrows	34	2	9.0	9.8
11-May-89	Tatitlek Narrows	34	2	9.0	9.8
11-May-89	Tatitlek Narrows	34	2	9.0	9.8
11-May-89	Tatitlek Narrows	34	2	9.0	9.8
1 l-May-89	Tatitlek Narrows	34	2	9.0	9.8
11-May-89	Tatitlek Narrows	34	2	9.0	9.8
1 l-May-89	Tatitlek Narrows	34	2	9.0	9.8
1 l-May-89	Tatitlek Narrows	34	2	9.2	10.0
1 l-May-89	Tatitlek Narrows	34	2	9.2	10.0
1 l-May-89	Tatitlek Narrows	34	2	9.2	10.0
11-May-89	Tatitlek Narrows	34	2	9.2	10.0
11-May-89	Tatitlek Narrows	34	1	9.2	10.0
11-May-89	Tatitlek Narrows	34	2	9.3	10.1
11-May-89	Tatitlek Narrows	34	2	9.3	10.1
11-May-89	Tatitlek Narrows	34	2	9.3	10.1
11-May-89	Tatitlek Narrows	34	2	9.3	10.1
11-May-89	Tatitlek Narrows	34	2	9.3	10.1
11-May-89	Tatitlek Narrows	34	2	9.5	10.2
11-May-89	Tatitlek Narrows	34	2	9.5	10.2
11-May-89	Tatitlek Narrows	34	2	9.5	10.2
11-May-89	Tatitlek Narrows	34	2	9.5	10.2
11-May-89	Tatitlek Narrows	34	2	9.5	10.2
11 -May-89	Tatitlek Narrows	34	2	9.5	10.2
11-May-89	Tatitlek Narrows	34	2	9.5	10.2
1 l-May-89	Tatitlek Narrows	34	2	9.5	10.2
11-May-89	Tatitlek Narrows	34	2	9.5	10.2
1 l-May-89	Tatitlek Narrows	34	1	9.5	10.2
1 l-May-89	Tatitlek Narrows	34	2	9.6	10.3
11 -May-89	Tatitlek Narrows	34	2	9.8	10.5
11-May-89	Tatitlek Narrows	34	2	9.8	10.5

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
11-May-89	Tatitlek Narrows	34	2	9.8	10.5
11-May-89	Tatitlek Narrows	34	2	9.8	10.5
11-May-89	Tatitlek Narrows	34	2	9.9	10.6
11-May-89	Tatitlek Narrows	34	2	10.1	10.7
11-May-89	Tatitlek Narrows	34	2	10.4	11.0
11-May-89	Tatitlek Narrows	34	2	10.4	11.0
11-May-89	Tatitlek Narrows	34	2	10.4	11.0
11-May-89	Tatitlek Narrows	34	2	10.7	11.3
11-May-89	Fairmount 1s.	41	1	7.8	8.8
11-May-89	Fairmount Is.	41	2	8.1	9.0
11-May-89	Fairmount Is.	41	2	8.3	9.2
11-May-89	Fairmount Is.	41	1	8.3	9.2
11-May-89	Fairmount Is.	41	1	8.3	9.2
1 l-May-89	Fairmount Is.	41	1	8.3	9.2
11-May-89	Fairmount Is.	41	1	8.4	9.3
1 l-May-89	Fairmount 1s.	41	2	8.4	9.3
1 l-May-89	Fairmount Is.	41	1	8.4	9.3
1 l-May-89	Fairmount Is.	41	1	8.4	9.3
11-May-89	Fairmount Is.	41	2	8.6	9.4
11-May-89	Fairmount Is.	41	2	8.6	9.4
11-May-89	Fairmount Is.	41	2	8.6	9.4
11-May-89	Fairmount Is.	41	1	8.6	9.4
11-May-89	Fairmount Is.	41	1	8.6	9.4
11-May-89	Fairmount Is.	41	1	8.6	9.4
11-May-89	Fairmount Is.	41	1	8.6	9.4
11-May-89	Fairmount Is.	41	1	8.7	9.6
11-May-89	Fairmount Is.	41	2	8.7	9.6
1 l-May-89	Fairmount Is.	41	2	8.7	9.6
1 l-May-89	Fairmount Is.	41	2	8.7	9.6
11-May-89	Fairmount 1s.	41	1	8.7	9.6
11-May-89	Fairmount Is.	41	2	8.7	9.6
11-May-89	Fairmount Is.	41	2	8.7	9.6
11-May-89	Fairmount is.	41	1	8.9	9.7
11-May-89	Fairmount Is.	41	2	8.9	9.7
11-May-89	Fairmount Is.	41	2	8.9	9.7
11-May-89	Fairmount Is.	41	1	8.9	9.7
1 l-May-89	Fairmount Is.	41	2	8.9	9.7
1 l-May-89	Fairmount Is.	41	2	8.9	9.7
11-May-89	Fairmount Is.	41	2	8.9	9.7

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
1 I-May-89	Fairmount Is.	41	1	8.9	9.7
1 I-May-89	Fairmount Is.	41	1	8.9	9.7
11 -May-89	Fairmount Is.	41	1	8.9	9.7
11-May-89	Fairmount Is.	41	2	8.9	9.7
11-May-89	Fairmount Is.	41	2	8.9	9.7
11-May-89	Fairmount Is.	41	2	9.0	9.8
11-May-89	Fairmount Is.	41	1	9.0	9.8
11-May-89	Fairmount Is.	41	1	9.0	9.8
11-May-89	Fairmount Is.	41	2	9.0	9.8
1 I-May-89	Fairmount Is.	41	2	9.0	9.8
1 I-May-89	Fairmount Is.	41	2	9.0	9.8
11-May-89	Fairmount 1s.	41	2	9.0	9.8
11-May-89	Fairmount Is.	41	2	9.0	9.8
11-May-89	Fairmount Is.	41	2	9.0	9.8
11-May-89	Fairmount Is.	41	2	9.0	9.8
11-May-89	Fairmount Is.	41	2	9.0	9.8
11-May-89	Fairmount Is.	41	2	9.2	10.0
11-May-89	Fairmount Is.	41	2	9.2	10.0
1 I-May-89	Fairmount Is.	41	2	9.2	10.0
11-May-89	Fairmount Is.	41	2	9.2	10.0
11-May-89	Fairmount Is.	41	1	9.2	10.0
11-May-89	Fairmount Is.	41	2	9.2	10.0
11-May-89	Fairmount Is.	41	1	9.2	10.0
11-May-89	Fairmount Is.	41	2	9.3	10.1
1 I-May-89	Fairmount Is.	41	2	9.3	10.1
1 I-May-89	Fairmount Is.	41	2	9.3	10.1
1 I-May-89	Fairmount Is.	41	1	9.3	10.1
11-May-89	Fairmount Is.	41	2	9.5	10.2
11-May-89	Fairmount Is.	41	2	9.5	10.2
11-May-89	Fairmount Is.	41	2	9.5	10.2
11-May-89	Fairmount Is.	41	2	9.5	10.2
11-May-89	Fairmount Is.	41	2	9.5	10.2
1 I-May-89	Fairmount Is.	41	2	9.5	10.2
1 I-May-89	Fairmount Is.	41	2	9.5	10.2
11-May-89	Fairmount Is.	41	2	9.5	10.2
11-May-89	Fairmount Is.	41	2	9.5	10.2
11-May-89	Fairmount Is.	41	2	9.5	10.2
11-May-89	Fairmount Is.	41	1	9.5	10.2
11-May-89	Fairmount Is.	41	2	9.5	10.2
11-May-89	Fairmount Is.	41	2	9.5	10.2

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
11-May-89	Fairmount Is.	41	2	9.6	10.3
11-May-89	Fairmount Is.	41	2	9.6	10.3
1 l-May-89	Fairmount Is.	41	2	9.6	10.3
1 l-May-89	Fairmount Is.	41	2	9.6	10.3
1 l-May-89	Fairmount Is.	41	2	9.6	10.3
11 -May-89	Fairmount Is.	41	2	9.8	10.5
11-May-89	Fairmount Is.	41	2	9.8	10.5
11-May-89	Fairmount Is.	41	2	9.8	10.5
1 l-May-89	Fairmount Is.	41	2	9.8	10.5
11-May-89	Fairmount Is.	41	2	9.8	10.5
11-May-89	Fairmount 1s.	41	2	9.8	10.5
11-May-69	Fairmount Is.	41	2	9.8	10.5
11-May-89	Fairmount Is.	41	2	9.9	10.6
11-May-89	Fairmount Is.	41	2	9.9	10.6
1 l-May-89	Fairmount Is.	41	2	9.9	10.6
11-May-89	Fairmount Is.	41	2	9.9	10.6
11-May-89	Fairmount Is.	41	2	9.9	10.6
11-May-89	Fairmount Is.	41	2	9.9	10.6
11-May-89	Fairmount 1s.	41	2	9.9	10.6
11-May-89	Fairmount Is.	41	2	9.9	10.6
11-May-89	Fairmount Is.	41	2	10.1	10.7
11-May-89	Fairmount Is.	41	2	10.1	10.7
1 l-May-89	Fairmount Is.	41	2	10.1	10.7
11-May-89	Fairmount Is.	41	2	10.1	10.7
11-May-89	Fairmount Is.	41	2	10.2	10.9
11-May-89	Fairmount Is.	41	2	10.4	11.0
11-May-89	Fairmount Is.	41	2	10.4	11.0
11-May-89	Fairmount Is.	41	2	10.5	11.1
11-May-89	Fairmount Is.	41	2	10.5	11.1
12-May-89	Bass Harbor	48	1	7.1	8.2
12-May-89	Bass Harbor	48	1	7.1	8.2
12-May-89	Bass Harbor	48	1	7.4	8.4
12-May-89	Bass Harbor	48	1	7.4	8.4
12-May-89	Bass Harbor	48	1	7.4	8.4
12-May-89	Bass Harbor	4a	1	7.4	8.4
12-May-89	Bass Harbor	48	1	7.7	8.7
12-May-89	Bass Harbor	48	1	7.7	8.7
12-May-89	Bass Harbor	46	1	7.8	8.8
12-May%9	Bass Harbor	48	1	7.8	8.8

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Sie	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
12-May-89	Bass Harbor	48	1	8.0	8.9
12-May-89	Bass Harbor	48	1	8.0	8.9
12-May-89	Bass Harbor	48	1	8.0	8.9
12-May-89	Bass Harbor	48	1	8.0	8.9
12-May-89	Bass Harbor	48	1	8.0	8.9
12-May-89	Bass Harbor	48	1	8.0	8.9
12-May-89	Bass Harbor	48	1	8.1	9.0
12-May-89	Bass Harbor	48	1	8.1	9.0
12-May-89	Bass Harbor	48	1	8.3	9.2
12-May-69	Bass Harbor	48	1	8.3	9.2
12-May-89	Bass Harbor	48	1	8.3	9.2
12-May-89	Bass Harbor	48	1	8.3	9.2
12-May-89	Bass Harbor	48	1	8.3	9.2
12-May-89	Bass Harbor	48	1	8.3	9.2
12-May-89	Bass Harbor	48	1	8.3	9.2
12-May-89	Bass Harbor	48	1	8.3	9.2
12-May-89	Bass Harbor	48	1	8.3	9.2
12-May-89	Bass Harbor	48	1	8.3	9.2
12-May-89	Bass Harbor	48	1	8.3	9.2
12-May-89	Bass Harbor	48	1	8.3	9.2
12-May-89	Bass Harbor	48	1	8.3	9.2
12-May-89	Bass Harbor	48	1	8.3	9.2
12-May-89	Bass Harbor	48	2	8.4	9.3
12-May-89	Bass Harbor	48	1	8.4	9.3
12-May-88	Bass Harbor	48	1	8.4	9.3
12-May-89	Bass Harbor	48	1	8.4	9.3
12-May-89	Bass Harbor	48	1	8.4	9.3
12-May-89	Bass Harbor	48	1	8.4	9.3
12-May-89	Bass Harbor	48	1	8.4	9.3
12-May-89	Bass Harbor	48	1	8.4	9.3
12-May-89	Bass Harbor	48	1	8.4	9.3
12-May-89	Bass Harbor	46	1	8.4	9.3
12-May-89	Bass Harbor	48	1	8.4	9.3
12-May-89	Bass Harbor	48	1	8.6	9.4
12-May-89	Bass Harbor	4a	1	8.6	9.4
12-May-89	Bass Harbor	48	1	8.6	9.4
12-May-89	Bass Harbor	48	1	8.6	9.4
12-May-89	Bass Harbor	48	1	8.6	9.4
12-May-89	Bass Harbor	48	1	8.6	9.4

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
12-May-89	Bass Harbor	48	1	8.6	9.4
12-May-89	Bass Harbor	48	2	8.6	9.4
12-May-89	Bass Harbor	48	1	8.6	9.4
12-May-89	Bass Harbor	48	1	8.6	9.4
12-May-89	Bass Harbor	48	1	8.6	9.4
12-May-89	Bass Harbor	48	2	8.6	9.4
12-May-69	Bass Harbor	48	1	8.7	9.6
12-May-89	Bass Harbor	48	1	8.7	9.6
12-May-89	Bass Harbor	48	2	8.7	9.6
12-May-89	Bass Harbor	48	1	8.7	9.6
12-May-89	Bass Harbor	48	2	8.7	9.6
12-May-89	Bass Harbor	48	1	8.9	9.7
12-May-89	Bass Harbor	46	2	8.9	9.7
12-May-89	Bass Harbor	48	1	8.9	9.7
12-May-89	Bass Harbor	48	1	8.9	9.7
12-May-89	Bass Harbor	48	1	8.9	9.7
12-May-89	Bass Harbor	48	1	8.9	9.7
12-May-89	Bass Harbor	48	1	8.9	9.7
12-May-89	Bass Harbor	48	1	8.9	9.7
12-May-89	Bass Harbor	48	1	8.9	9.7
12-May-89	Bass Harbor	48	1	9.0	9.8
12-May-69	Bass Harbor	48	2	9.0	9.8
12-May-89	Bass Harbor	46	1	9.0	9.8
12-May-89	Bass Harbor	48	2	9.0	9.8
12-May-89	Bass Harbor	48	1	9.0	9.8
12-May-89	Bass Harbor	48	2	9.0	9.8
12-May-89	Bass Harbor	48	1	9.0	9.8
12-May-89	Bass Harbor	48	2	9.0	9.8
12-May-89	Bass Harbor	48	2	9.0	9.8
12-May-89	Bass Harbor	48	1	9.0	9.8
12-May-89	Bass Harbor	48	2	9.0	9.8
12-May-69	Bass Harbor	48	1	9.0	9.8
12-May-89	Bass Harbor	48	1	9.0	9.8
12-May-89	Bass Harbor	48	2	9.2	10.0
12-May-89	Bass Harbor	48	1	9.2	10.0
12-May-89	Bass Harbor	48	2	9.2	10.0
12-May-89	Bass Harbor	48	2	9.3	10.1
12-May-89	Bass Harbor	48	1	9.3	10.1
12-May-89	Bass Harbor	48	1	9.3	10.1
12-May-89	Bass Harbor	48	2	9.3	10.1

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
12-May-89	Bass Harbor	48	1	9.3	10.1
12-May-89	Bass Harbor	48	2	9.3	10.1
12-May-89	Bass Harbor	48	2	9.3	10.1
12-May-89	Bass Harbor	48	2	9.5	10.2
12-May-89	Bass Harbor	48	2	9.5	10.2
12-May-89	Bass Harbor	48	2	9.5	10.2
12-May-89	Bass Harbor	48	1	9.6	10.3
12-May-89	Bass Harbor	48	1	9.6	10.3
12-May-89	Bass Harbor	48	2	9.8	10.5
12-May-89	Bass Harbor	48	2	9.8	10.5
12-May-89	Rocky Bay	55	1	7.2	8.3
12-May-89	Rocky Bay	55	1	7.4	8.4
12-May-89	Rocky Bay	55	1	7.5	8.5
12-May-89	Rocky Bay	55	1	7.7	8.7
12-May-89	Rocky Bay	55	1	7.7	8.7
12-May-89	Rocky Bay	55	1	7.7	8.7
12-May-89	Rocky Bay	55	1	7.8	8.8
12-May-89	Rocky Bay	55	1	7.8	8.8
12-May-89	Rocky Bay	55	1	7.8	8.8
12-May-89	Rocky Bay	55	1	7.8	8.8
12-May-89	Rocky Bay	55	1	8.0	8.9
12-May-89	Rocky Bay	55	1	8.0	8.9
12-May-89	Rocky Bay	55	1	8.0	8.9
12-May-89	Rocky Bay	55	1	8.0	8.9
12-May-89	Rocky Bay	55	1	8.0	8.9
12-May-89	Rocky Bay	55	1	8.0	8.9
12-May-89	Rocky Bay	55	1	8.0	8.9
12-May-89	Rocky Bay	55	1	8.0	8.9
12-May-89	Rocky Bay	55	1	8.0	8.9
12-May-89	Rocky Bay	55	1	8.0	8.9
12-May-89	Rocky Bay	55	1	8.1	9.0
12-May-89	Rocky Bay	55	1	8.1	9.0
12-May-89	Rocky Bay	55	1	8.1	9.0
12-May-89	Rocky Bay	55	1	8.1	9.0
12-May-89	Rocky Bay	55	1	8.1	9.0
12-May-89	Rocky Bay	55	1	8.1	9.0
12-May-89	Rocky Bay	55	1	8.1	9.0
12-May-89	Rocky Bay	55	1	8.1	9.0
12-May-89	Rocky Bay	55	1	8.1	9.0

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
12-May-89	Rocky Bay	55	1	8.1	9.0
12-May-89	Rocky Bay	55	1	8.1	9.0
12-May-89	Rocky Bay	55	1	8.1	9.0
12-May-89	Rocky Bay	55	1	8.1	9.0
12-May-89	Rocky Bay	55	1	8.3	9.2
12-May-89	Rocky Bay	55	1	8.3	9.2
12-May-89	Rocky Bay	55	1	8.3	9.2
12-May-89	Rocky Bay	55	1	8.3	9.2
12-May-89	Rocky Bay	55	1	8.3	9.2
12-May-89	Rocky Bay	55	1	8.3	9.2
12-May-89	Rocky Bay	55	1	8.3	9.2
12-May-88	Rocky Bay	55	1	8.3	9.2
12-May-89	Rocky Bay	55	1	8.3	9.2
12-May-89	Rocky Bay	55	1	8.3	9.2
12-May-89	Rocky Bay	55	2	8.3	9.2
12-May-89	Rocky Bay	55	1	8.3	9.2
12-May-89	Rocky Bay	55	1	8.3	9.2
12-May-89	Rocky Bay	55	1	8.3	9.2
12-May-89	Rocky Bay	55	1	8.3	9.2
12-May-89	Rocky Bay	55	1	8.3	9.2
12-May-89	Rocky Bay	55	1	8.3	9.2
12-May-89	Rocky Bay	55	1	8.5	9.3
12-May-89	Rocky Bay	55	1	8.4	9.3
12-May-89	Rocky Bay	55	1	8.4	9.3
12-May-89	Rocky Bay	55	1	8.4	9.3
12-May-89	Rocky Bay	55	1	8.4	9.3
12-May-89	Rocky Bay	55	1	8.4	9.3
12-May-89	Rocky Bay	55	1	8.4	9.3
12-May-89	Rocky Bay	55	1	8.4	9.3
12-May-89	Rocky Bay	55	1	8.4	9.3
12-May-89	Rocky Bay	55	1	8.4	9.3
12-May-89	Rocky Bay	55	1	8.4	9.3
12-May-89	Rocky Bay	55	1	8.4	9.3
12-May-89	Rocky Bay	55	1	8.4	9.3
12-May-09	Rocky Bay	55	1	8.4	9.3
12-May-89	Rocky Bay	55	1	8.4	9.3
12-May-89	Rocky Bay	55	1	8.4	9.3
12-May-89	Rocky Bay	55	1	8.6	9.4

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
12-May-89	Rocky Bay	55	1	8.6	9.4
12-May-89	Rocky Bay	55	1	8.6	9.4
12-May-89	Rocky Bay	55	1	8.6	9.4
12-May-89	Rocky Bay	55	1	8.6	9.4
12-May-89	Rocky Bay	55	1	8.6	9.4
12-May-89	Rocky Bay	55	1	8.6	9.4
12-May-89	Rocky Bay	55	1	8.6	9.4
12-May-89	Rocky Bay	55	1	8.6	9.4
12-May-89	Rocky Bay	55	1	8.6	9.4
12-May-89	Rocky Bay	55	2	8.6	9.4
12-May-89	Rocky Bay	55	1	8.6	9.4
12-May-89	Rocky Bay	55	1	8.6	9.4
12-May-89	Rocky Bay	55	1	8.6	9.4
12-May-89	Rocky Bay	55	1	8.6	9.4
12-May-89	Rocky Bay	55	1	8.7	9.6
12-May-89	Rocky Bay	55	1	8.7	9.6
12-May-89	Rocky Bay	55	1	8.7	9.6
12-May-89	Rocky Bay	55	1	8.9	9.7
12-May-89	Rocky Bay	55	1	8.9	9.7
12-May-89	Rocky Bay	55	1	8.9	9.7
12-May-89	Rocky Bay	55	2	9.0	9.8
12-May-89	Rocky Bay	55	1	9.0	9.8
12-May-89	Rocky Bay	55	2	9.0	9.8
12-May-89	Rocky Bay	55	1	9.0	9.8
12-May-89	Rocky Bay	55	1	9.2	10.0
12-May-89	Rocky Bay	55	2	9.2	10.0
12-May-89	Rocky Bay	55	2	9.2	10.0
12-May-89	Rocky Bay	55	1	9.3	10.1
12-May-89	Rocky Bay	55	2	9.3	10.1
12-May-89	Rocky Bay	55	2	9.5	10.2
12-May-89	Rocky Bay	55	1	12.2	12.6
21-May-89	Tatitlek Narrows	62	2	7.8	8.8
21-May-89	Tatitlek Narrows	62	2	8.3	9.2
21-May-89	Tatitlek Narrows	62	2	8.4	9.3
21-May-89	Tatitlek Narrows	62	2	8.6	9.4
21-May-89	Tatitlek Narrows	62	2	8.7	9.6
21-May-89	Tatitlek Narrows	62	2	8.9	9.7
21-May-89	Tatitlek Narrows	62	2	8.9	9.7
21-May-89	Tatitlek Narrows	62	2	9.0	9.8

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	SamPie number	Yolk	Measured length (mm)	Capture-corrected length (mm)
21 -May-89	Tatitlek Narrows	62	2	9.0	9.8
21-May-89	Tatitlek Narrows	62	2	9.2	10.0
21-May-89	Tatitfek Narrows	62	2	9.2	10.0
21-May-89	Tatitfek Narrows	62	2	9.3	10.1
21-May-89	Tatitlek Narrows	62	2	9.3	10.1
21-May-89	Tatitlek Narrows	62	2	9.3	10.1
21-May-89	Tatitlek Narrows	62	2	9.3	10.1
21-May-89	Tatitlek Narrows	62	2	9.5	10.2
21-May-89	Tatitlek Narrows	62	2	9.5	10.2
21-May-89	Tatitlek Narrows	62	2	9.5	10.2
21-May-89	Tatitfek Narrows	62	2	9.6	10.3
21-May-89	Tatitlek Narrows	62	2	9.6	10.3
21-May-89	Tatitfek Narrows	62	2	9.6	10.3
21-May-89	Tatitfek Narrows	62	2	9.6	10.3
21-May-89	Tatitlek Narrows	62	2	9.8	10.5
21-May-89	Tatitlek Narrows	62	2	9.8	10.5
21-May-89	Tatitlek Narrows	62	2	9.8	10.5
21-May-89	Tatitlek Narrows	62	2	9.8	10.5
21 -May-89	Tatitfek Narrows	62	2	9.9	10.6
21-May-89	Tatitlek Narrows	62	2	9.9	10.6
21 -May-89	Tatitlek Narrows	62	2	9.9	10.6
21-May-89	Tatitlek Narrows	62	2	10.1	10.7
21-May-89	Tatitlek Narrows	62	2	10.1	10.7
21-Maya	Tatitlek Narrows	62	2	10.1	10.7
21-May-89	Tatitlek Narrows	62	2	10.1	10.7
21-May-89	Tatitlek Narrows	62	2	10.1	10.7
21-May-89	Tatitlek Narrows	62	2	10.1	10.7
21-May-89	Tatitlek Narrows	62	2	10.1	10.7
21-May-89	Tatitfek Narrows	62	2	10.2	10.9
21-May-89	Tatitlek Narrows	62	2	10.2	10.9
21-May-89	Tatitlek Narrows	62	2	10.2	10.9
21-May-89	Tatitlek Narrows	62	2	10.4	11.0
21 -May-89	Tatitlek Narrows	62	2	10.4	11.0
21-May-89	Tatitlek Narrows	62	2	10.4	11.0
21-May-89	Tatitfek Narrows	62	2	10.4	11.0
21-May-89	Tatitlek Narrows	62	2	10.4	11.0
21-May-89	Tatitlek Narrows	62	2	10.4	11.0
21-May-89	Tatitlek Narrows	62	2	10.5	11.1
21-May-89	Tatitlek Narrows	62	2	10.5	11.1
21-May-89	Tatitlek Narrows	62	2	10.5	11.1

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
21-May-69	Tatitlek Narrows	62	2	10.5	11.1
21-May-89	Tatitlek Narrows	62	2	10.5	11.1
21-May-89	Tatitlek Narrows	62	2	10.5	11.1
21-May-89	Tatitlek Narrows	62	2	10.7	11.3
21-May-89	Tatitlek Narrows	62	2	10.7	11.3
21-May-89	Tatitlek Narrows	62	2	10.7	11.3
21-May-89	Tatitlek Narrows	62	2	10.7	11.3
21-May-89	Tatitlek Narrows	62	2	10.7	11.3
21-May-89	Tatitlek Narrows	62	2	10.7	11.3
21-May-89	Tatitlek Narrows	62	2	10.7	11.3
21-May-89	Tatitlek Narrows	62	2	10.8	11.4
21-May-89	Tatitlek Narrows	62	2	10.8	11.4
21-May-89	Tatitlek Narrows	62	2	10.8	11.4
21-May-89	Tatitlek Narrows	62	2	11.0	11.5
21-May-89	Tatitlek Narrows	62	2	11.0	11.5
21-May-89	Tatitlek Narrows	62	2	11.0	11.5
21-May-89	Tatitlek Narrows	62	2	11.0	11.5
21-May-89	Tatitlek Narrows	62	2	11.0	11.5
21-May-89	Tatitlek Narrows	62	2	11.0	11.5
21-May-89	Tatitlek Narrows	62	2	11.0	11.5
21-May-89	Tatitlek Narrows	62	2	11.1	11.7
21-May-89	Tatitlek Narrows	62	2	11.1	11.7
21-May-89	Tatitlek Narrows	62	2	11.1	11.7
21-Maya	Tatitlek Narrows	62	2	11.1	11.7
21-May-89	Tatitlek Narrows	62	2	11.1	11.7
21-May-89	Tatitfek Narrows	62	2	11.1	11.7
21-May-89	Tatitlek Narrows	62	2	11.1	11.7
21-May-89	Tatitlek Narrows	62	2	11.3	11.8
21-May-69	Tatitlek Narrows	62	2	11.3	11.8
21-May-89	Tatitlek Narrows	62	2	11.3	11.8
21-May-89	Tatitlek Narrows	62	2	11.3	11.8
21-May-89	Tatitlek Narrows	62	2	11.3	11.8
21-May-89	Tatitlek Narrows	62	2	11.4	11.9
21-May-89	Tatitlek Narrows	62	2	11.4	11.9
21-May-89	Tatitlek Narrows	62	2	11.4	11.9
21-May-89	Tatitlek Narrows	62	2	11.4	11.9
21-May-89	Tatitlek Narrows	62	2	11.6	12.1
21-May=	Tatitlek Narrows	62	2	11.6	12.1
21-May-89	Tatitlek Narrows	62	2	11.7	12.2
21-May-89	Tatitlek Narrows	62	2	11.7	12.2

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
21-May-89	Tatitlek Narrows	62	2	11.7	12.2
21-May-89	Tatitlek Narrows	62	2	11.9	12.4
21-May-89	Tatitlek Narrows	62	2	11.9	12.4
21-May-89	Tatitlek Narrows	62	2	12.2	12.6
21-May-89	Tatitlek Narrows	62	2	12.2	12.6
21 -May-89	Tatitlek Narrows	62	2	12.2	12.6
21-May-89	Tatitlek Narrows	62	2	12.2	12.6
21-May-89	Tatitlek Narrows	62	2	12.3	12.8
21-May-89	Tatitlek Narrows	62	2	12.3	12.8
21-May-89	Tatitlek Narrows	62	2	13.2	13.6
21-May-89	Tatitlek Narrows	62	2	13.5	13.9
21-May-89	Tatitlek Narrows	62	2	15.6	15.8
21-May-89	Rocky Bay	69	1	7.2	8.3
21-May-89	Rocky Bay	69	1	7.5	8.5
21-May-89	Rocky Bay	69	1	7.7	8.7
21-May-89	Rocky Bay	69	1	7.7	8.7
21-May-89	Rocky Bay	69	2	7.8	8.8
21-May-89	Rocky Bay	69	1	7.8	8.8
21-May-89	Rocky Bay	69	1	8.0	8.9
21-May-89	Rocky Bay	69	1	8.0	8.9
21-May-89	Rocky Bay	69	1	8.1	9.0
21-May-89	Rocky Bay	69	2	8.1	9.0
21-May-89	Rocky Bay	69	1	8.3	9.2
21-May-89	Rocky Bay	69	1	8.3	9.2
21-May-89	Rocky Bay	69	2	8.3	9.2
21-May-89	Rocky Bay	69	2	8.3	9.2
21-May-89	Rocky Bay	69	1	8.3	9.2
21-May-89	Rocky Bay	69	2	8.4	9.3
21-May-89	Rocky Bay	69	1	8.4	9.3
21-May-89	Rocky Bay	69	2	8.4	9.3
21-May-89	Rocky Bay	69	1	8.4	9.3
21-May-89	Rocky Bay	69	1	8.4	9.3
21-May-89	Rocky Bay	69	2	8.4	9.3
21-May-89	Rocky Bay	69	2	8.6	9.4
21-May-89	Rocky Bay	69	2	8.6	9.4
21-May-89	Rocky Bay	69	2	8.6	9.4
21-May-89	Rocky Bay	69	2	8.7	9.6
21-May-89	Rocky Bay	69	2	8.7	9.6
21-May-89	Rocky Bay	69	1	8.7	9.6

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
21-May-89	Rocky Bay	69	2	8.7	9.6
21-May-89	Rocky Bay	69	2	8.7	9.6
21-May-89	Rocky Bay	69	2	8.7	9.6
21-May-89	Rocky Bay	69	1	8.9	9.7
21-May-89	Rocky Bay	69	2	8.9	9.7
21-May-89	Rocky Bay	69	2	8.9	9.7
21-May-89	Rocky Bay	69	2	8.9	9.7
21-May-89	Rocky Bay	69	2	8.9	9.7
21-May-89	Rocky Bay	69	2	8.9	9.7
21-May-89	Rocky Bay	69	2	9.0	9.8
21-May-89	Rocky Bay	69	2	9.0	9.8
21-May-89	Rocky Bay	69	2	9.0	9.8
21-May-89	Rocky Bay	69	2	9.0	9.8
21-May-89	Rocky Bay	69	2	9.0	9.8
21-May-89	Rocky Bay	69	2	9.2	10.0
21-May-89	Rocky Bay	69	2	9.2	10.0
21 -May-89	Rocky Bay	69	2	9.2	10.0
21-May-89	Rocky Bay	69	2	9.2	10.0
21-May-89	Rocky Bay	69	2	9.3	10.1
21-May-89	Rocky Bay	69	2	9.3	10.1
21-May-89	Rocky Bay	69	2	9.3	10.1
21-May-89	Rocky Bay	69	1	9.3	10.1
21-Maya	Rocky Bay	69	2	9.3	10.1
21-May-89	Rocky Bay	69	2	9.5	10.2
21-May-89	Rocky Bay	69	2	9.5	10.2
21-May-89	Rocky Bay	69	2	9.5	10.2
21-May-89	Rocky Bay	69	2	9.5	10.2
21-May-89	Rocky Bay	69	2	9.5	10.2
21-May-89	Rocky Bay	69	2	9.5	10.2
21-May-89	Rocky Bay	69	2	9.5	10.2
21-May-89	Rocky Bay	69	2	9.5	10.2
21-May-89	Rocky Bay	69	2	9.6	10.3
21-May-89	Rocky Bay	69	2	9.6	10.3
21-May-89	Rocky Bay	69	2	9.6	10.3
21-May-89	Rocky Bay	69	2	9.6	10.3
21-May-89	Rocky Bay	69	2	9.6	10.3
21-May-89	Rocky Bay	69	2	9.6	10.3
21-May-89	Rocky Bay	69	2	9.6	10.3
21-May-89	Rocky Bay	69	2	9.6	10.3
21-May-89	Rocky Bay	69	2	9.8	10.5

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
21-May-89	Rocky Bay	69	2	9.8	10.5
21-May-89	Rocky Bay	69	2	9.8	10.5
21-May-89	Rocky Bay	69	2	9.8	10.5
21-May-89	Rocky Bay	69	2	9.8	10.5
21-May-89	Rocky Bay	69	2	9.8	10.5
21-May-89	Rocky Bay	69	2	9.8	10.5
21-May-89	Rocky Bay	69	2	9.9	10.6
21-May-89	Rocky Bay	69	2	9.9	10.6
21-May-89	Rocky Bay	69	2	9.9	10.6
21-May-89	Rocky Bay	69	2	9.9	10.6
21-May-89	Rocky Bay	69	2	9.9	10.6
21-May-89	Rocky Bay	69	1	9.9	10.6
21-May-89	Rocky Bay	69	2	9.9	10.6
21-May-89	Rocky Bay	69	2	10.1	10.7
21-May-89	Rocky Bay	69	2	10.1	10.7
21-May-89	Rocky Bay	69	2	10.1	10.7
21-May-89	Rocky Bay	69	2	10.1	10.7
21-May-89	Rocky Bay	69	2	10.1	10.7
21-May-89	Rocky Bay	69	2	10.1	10.7
21-May-89	Rocky Bay	69	2	10.1	10.7
21-May-89	Rocky Bay	69	2	10.1	10.7
21-May-89	Rocky Bay	69	2	10.2	10.9
21-May-89	Rocky Bay	69	2	10.2	10.9
21-May-89	Rocky Bay	69	2	10.2	10.9
21-May-89	Rocky Bay	69	2	10.2	10.9
21-May-89	Rocky Bay	69	2	10.4	11.0
21-May-89	Rocky Bay	69	2	10.4	11.0
21-May-89	Rocky Bay	69	2	10.5	11.1
21-May-89	Rocky Bay	69	2	10.5	11.1
21-May-89	Rocky Bay	69	2	10.5	11.1
21-May-89	Rocky Bay	69	2	10.5	11.1
21-May-89	Rocky Bay	69	2	10.7	11.3
21-May-89	Rocky Bay	69	2	10.7	11.3
21-May-89	Bass Harbor	76	1	7.5	8.5
21-May-89	Bass Harbor	76	1	7.7	8.7
21-May-89	Bass Harbor	76	1	7.8	8.8
21-May-89	Bass Harbor	76	1	8.0	8.9
21-May-89	Bass Harbor	76	1	8.0	8.9
21-May-89	Bass Harbor	76	2	8.1	9.0

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
21-May-89	Bass Harbor	76	1	8.1	9.0
21-May-89	Bass Harbor	76	2	8.3	9.2
21-May-89	Bass Harbor	76	2	8.3	9.2
21-May-89	Bass Harbor	76	1	8.3	9.2
21-May-89	Bass Harbor	76	2	8.6	9.4
21-May-89	Bass Harbor	76	1	8.6	9.4
21-May-89	Bass Harbor	76	2	8.7	9.6
21-May-89	Bass Harbor	76	2	8.7	9.6
21-May-89	Bass Harbor	76	2	8.9	9.7
21-May-89	Bass Harbor	76	2	8.9	9.7
21-May-89	Bass Harbor	76	2	8.9	9.7
21-May-89	Bass Harbor	76	2	9.0	9.8
21-May-89	Bass Harbor	76	2	9.0	9.8
21-May-89	Bass Harbor	76	2	9.1	9.9
21-May-89	Bass Harbor	76	2	9.1	9.9
21-May-89	Bass Harbor	76	2	9.2	10.0
21-May-89	Bass Harbor	76	2	9.2	10.0
21-May-89	Bass Harbor	76	2	9.2	10.0
21-May-89	Bass Harbor	76	2	9.2	10.0
21-May-89	Bass Harbor	76	2	9.2	10.0
21-May-89	Bass Harbor	76	1	9.2	10.0
21-May-89	Bass Harbor	76	2	9.2	10.0
21-May-89	Bass Harbor	76	2	9.2	10.0
21-May-89	Bass Harbor	76	2	9.3	10.1
21-May-89	Bass Harbor	76	2	9.3	10.1
21-May-89	Bass Harbor	76	2	9.3	10.1
21-May-89	Bass Harbor	76	2	9.3	10.1
21-May-89	Bass Harbor	76	2	9.3	10.1
21-May-89	Bass Harbor	76	2	9.5	10.2
21-May-89	Bass Harbor	76	2	9.5	10.2
21-May-89	Bass Harbor	76	2	9.5	10.2
21-May-89	Bass Harbor	76	2	9.5	10.2
21-May-89	Bass Harbor	76	2	9.5	10.2
21-May-89	Bass Harbor	76	2	9.5	10.2
21-May-89	Bass Harbor	76	2	9.6	10.3
21-May-89	Bass Harbor	76	2	9.6	10.3
21-May-89	Bass Harbor	76	2	9.6	10.3
21-May-89	Bass Harbor	76	2	9.6	10.3
21-May-89	Bass Harbor	76	2	9.6	10.3
21-May-89	Bass Harbor	76	2	9.6	10.3

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
21-May-89	Bass Harbor	76	2	9.8	10.5
21-May-89	Bass Harbor	76	2	9.8	10.5
21-May-89	Bass Harbor	76	2	9.8	10.5
21-May-89	Bass Harbor	76	2	9.8	10.5
21-May-89	Bass Harbor	76	2	9.8	10.5
21-May-89	Bass Harbor	76	2	9.8	10.5
21-May-89	Bass Harbor	76	2	9.8	10.5
21-May-89	Bass Harbor	76	2	9.8	10.5
21-May-89	Bass Harbor	76	2	9.8	10.5
21-May-89	Bass Harbor	76	2	9.9	10.6
21-May-89	Bass Harbor	76	2	9.9	10.6
21-May-89	Bass Harbor	76	2	9.9	10.6
21-May-89	Bass Harbor	76	2	9.9	10.6
21-May-89	Bass Harbor	76	2	9.9	10.6
21-May-89	Bass Harbor	76	2	9.9	10.6
21-May-89	Bass Harbor	76	2	9.9	10.6
21-May-89	Bass Harbor	76	2	9.9	10.6
21-May-89	Bass Harbor	76	2	9.9	10.6
21-May-89	Bass Harbor	76	2	9.9	10.6
21-May-89	Bass Harbor	76	2	10.1	10.7
21-May-89	Bass Harbor	76	2	10.1	10.7
21 -May-89	Bass Harbor	76	2	10.1	10.7
21-May-89	Bass Harbor	76	2	10.1	10.7
21-May-89	Bass Harbor	76	2	10.1	10.7
21-May-89	Bass Harbor	76	2	10.1	10.7
21-May-89	Bass Harbor	76	2	10.2	10.9
21-May-89	Bass Harbor	76	2	10.2	10.9
21-May-89	Bass Harbor	76	2	10.2	10.9
21-May-89	Bass Harbor	76	2	10.2	10.9
21-May-89	Bass Harbor	76	2	10.2	10.9
21-May-89	Bass Harbor	76	2	10.2	10.9
21-May-89	Bass Harbor	76	2	10.2	10.9
21 -May-89	Bass Harbor	76	2	10.2	10.9
21-May-89	Bass Harbor	76	2	10.2	10.9
21-May-89	Bass Harbor	76	2	10.2	10.9
21-May-89	Bass Harbor	76	2	10.4	11.0
21-May-89	Bass Harbor	76	2	10.4	11.0
21-May-89	Bass Harbor	76	2	10.4	11.0
21-May-89	Bass Harbor	76	2	10.5	11.1
21-May-89	Bass Harbor	76	2	10.5	11.1

Appendix G. Lengths of herring larvae from Prince William Sound, 1969.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
21-May-89	Bass Harbor	76	2	10.7	11.3
21-May-89	Bass Harbor	76	2	10.7	11.3
21-May-89	Bass Harbor	76	2	10.7	11.3
21-May-89	Bass Harbor	76	2	10.8	11.4
21-May-89	Bass Harbor	76	2	10.8	11.4
21-May-89	Bass Harbor	76	2	10.8	11.4
21-May-89	Bass Harbor	76	2	11.0	11.5
21-May-89	Bass Harbor	76	2	11.0	11.5
21-May-89	Bass Harbor	76	2	11.0	11.5
21-May-89	Bass Harbor	76	2	11.1	11.7
21-May-89	Bass Harbor	76	2	11.4	11.9
21 -May-89	Bass Harbor	76	2	11.4	11.9
21-May-89	Bass Harbor	76	2	11.7	12.2
21-May-89	Bass Harbor	76	2	14.3	14.6
21 -May-89	Fairmount Is.	83	2	8.6	9.4
21-May-89	Fairmount Is.	83	2	8.7	9.6
21-May-89	Fairmount Is.	83	2	8.7	9.6
21-May-89	Fairmount Is.	83	2	9.0	9.8
21-May-89	Fairmount Is.	83	2	9.0	9.8
21-May-89	Fairmount Is.	83	2	9.2	10.0
21-May-89	Fairmount Is.	63	2	9.2	10.0
21-May-89	Fairmount Is.	83	2	9.2	10.0
21-May-89	Fairmount Is.	83	2	9.3	10.1
21-May-89	Fairmount Is.	83	2	9.3	10.1
21-May-89	Fairmount Is.	83	2	9.3	10.1
21-May-89	Fairmount Is.	83	2	9.5	10.2
21-May-89	Fairmount Is.	83	2	9.5	10.2
21-May-89	Fairmount Is.	83	2	9.5	10.2
21-May-89	Fairmount Is.	83	2	9.5	10.2
21-May-89	Fairmount Is.	83	2	9.5	10.2
21-May-89	Fairmount Is.	83	2	9.5	10.2
21-May-89	Fairmount Is.	83	2	9.5	10.2
21-May-89	Fairmount Is.	83	2	9.6	10.3
21-May-89	Fairmount Is.	83	2	9.6	10.3
21-May-89	Fairmount Is.	83	2	9.6	10.3
21-May-89	Fairmount Is.	83	2	9.6	10.3
21-May-89	Fairmount Is.	83	2	9.6	10.3
21-May-89	Fairmount Is.	83	2	9.6	10.3
21-May-89	Fairmount Is.	83	2	9.6	10.3

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
21-May-89	Fairmount Is.	83	2	9.8	10.5
21-May-89	Fairmount Is.	83	2	9.8	10.5
21-May-89	Fairmount Is.	83	2	9.8	10.5
21-May-89	Fairmount Is.	83	2	9.8	10.5
21-May-89	Fairmount Is.	83	2	9.8	10.5
21-May-89	Fairmount Is.	83	2	9.8	10.5
21-May-89	Fairmount Is.	83	2	9.9	10.6
21-May-89	Fairmount Is.	83	2	9.9	10.6
21-May-89	Fairmount Is.	83	2	9.9	10.6
21-May-89	Fairmount Is.	83	2	10.1	10.7
21-May-89	Fairmount Is.	83	2	10.1	10.7
21-May-89	Fairmount Is.	83	2	10.1	10.7
21-May-89	Fairmount Is.	83	2	10.1	10.7
21-May-89	Fairmount Is.	83	2	10.1	10.7
21-May-89	Fairmount Is.	83	2	10.2	10.9
21-May-89	Fairmount Is.	83	2	10.2	10.9
21-May-89	Fairmount Is.	83	2	10.2	10.9
21-May-89	Fairmount Is.	83	2	10.2	10.9
21-May-89	Fairmount 1s.	83	2	10.2	10.9
21-May-89	Fairmount Is.	83	2	10.2	10.9
21-May-89	Fairmount Is.	83	2	10.2	10.9
21 -May-89	Fairmount 1s.	83	2	10.4	11.0
21-May-89	Fairmount 1s.	83	2	10.4	11.0
21-May-89	Fairmount Is.	83	2	10.4	11.0
21-May-89	Fairmount Is.	83	2	10.4	11.0
21-May-89	Fairmount Is.	83	2	10.4	11.0
21-May-89	Fairmount Is.	83	2	10.4	11.0
21-May-89	Fairmount Is.	83	2	10.4	11.0
21-May-89	Fairmount Is.	83	2	10.4	11.0
21-May-89	Fairmount Is.	83	2	10.4	11.0
21-May-89	Fairmount Is.	83	2	10.5	11.1
21-May-89	Fairmount Is.	83	2	10.5	11.1
21-Maya	Fairmount Is.	83	2	10.5	11.1
21-May-89	Fairmount Is.	83	2	10.5	11.1
21-May-89	Fairmount Is.	83	2	10.5	11.1
21-May-89	Fairmount 1s.	83	2	10.5	11.1
21-May-89	Fairmount Is.	83	2	10.5	11.1
21 -May-89	Fairmount Is.	83	2	10.5	11.1
21-May-89	Fairmount is.	83	2	10.7	11.3
21-May-89	Fairmount Is.	83	2	10.7	11.3

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
21-May-89	Fairmount 1s.	83	2	10.7	11.3
21-May-89	Fairmount Is.	83	2	10.7	11.3
21-May-89	Fairmount Is.	83	2	10.7	11.3
21-May-89	Fairmount 1s.	83	2	10.7	11.3
21-May-89	Fairmount 1s.	83	2	10.7	11.3
21-&lay-&l	Fairmount Is.	83	2	10.8	11.4
21-May-69	Fairmount Is.	83	2	10.8	11.4
21-May-89	Fairmount Is.	83	2	10.8	11.4
21-May-89	Fairmount Is.	83	2	10.8	11.4
21-May-89	Fairmount Is.	83	2	11.0	11.5
21-May-89	Fairmount Is.	83	2	11.0	11.5
21-May-89	Fairmount Is.	83	2	11.1	11.7
21-May-89	Fairmount Is.	83	2	11.3	11.8
21-May-89	Fairmount Is.	83	2	11.3	11.8
21-May-89	Fairmount Is.	83	2	11.3	11.8
21-May-89	Fairmount Is.	83	2	11.3	11.8
21-May-89	Fairmount Is.	83	2	11.3	11.8
21-May-89	Fairmount Is.	83	2	11.3	11.8
21-May-89	Fairmount Is.	83	2	11.4	11.9
21-May-89	Fairmount Is.	83	2	11.4	11.9
21-May-89	Fairmount Is.	83	2	11.6	12.1
21-May-89	Fairmount Is.	83	2	11.7	12.2
21-May-89	Fairmount Is.	83	2	11.7	12.2
21 -May-89	Fairmount Is.	83	2	11.9	12.4
21-May-89	Fairmount Is.	83	2	11.9	12.4
21-May-89	Fairmount Is.	83	2	11.9	12.4
21-May-69	Fairmount Is.	83	2	12.0	12.5
21 -May-89	Fairmount Is.	83	2	12.0	12.5
21-May-89	Fairmount Is.	83	2	12.0	12.5
21-May-89	Fairmount Is.	83	2	12.2	12.6
21-May-89	Fairmount Is.	83	2	12.2	12.6
21-May-89	Fairmount Is.	83	2	12.3	12.8
21-May-89	Fairmount Is.	83	2	12.6	13.0
21-May-69	Fairmount Is.	83	2	13.2	13.6
21-May-89	Fairmount Is.	83	2	14.4	14.7
29-May-89	Bass Harbor	104	2	9.9	10.6
29-May-89	Bass Harbor	104	2	10.4	11.0
29-May-89	Bass Harbor	104	2	10.7	11.3
29-May-89	Bass Harbor	104	2	11.0	11.5

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
29-May-89	Bass Harbor	104	2	11.0	11.5
29-May-89	Bass Harbor	104	2	11.7	11.7
29-May-89	Bass Harbor	104	2	11.4	11.9
29-May-89	Bass Harbor	104	2	11.4	11.9
29-May-89	Bass Harbor	104	2	11.6	12.1
29-May-89	Bass Harbor	104	2	11.6	12.1
29-May-89	Bass Harbor	104	2	11.6	12.1
29-May-89	Bass Harbor	104	2	11.6	12.1
29-May-89	Bass Harbor	104	2	11.9	12.4
29-May-89	Bass Harbor	104	2	11.9	12.4
29-May-89	Bass Harbor	104	2	12.0	12.5
29-May-89	Bass Harbor	104	2	12.0	12.5
29-May-89	Bass Harbor	104	2	12.0	12.5
29-May-89	Bass Harbor	104	2	12.2	12.6
29-May-89	Bass Harbor	104	2	12.2	12.6
29-May-89	Bass Harbor	104	2	12.2	12.6
29-May-89	Bass Harbor	104	2	12.3	12.8
29-May-89	Bass Harbor	104	2	12.3	12.8
29-May-89	Bass Harbor	104	2	12.3	12.8
29-May-89	Bass Harbor	104	2	12.5	12.9
29-May-89	Bass Harbor	104	2	12.5	12.9
29-May-89	Bass Harbor	104	2	12.5	12.9
29-May-89	Bass Harbor	104	2	12.5	12.9
29-May-89	Bass Harbor	104	2	12.5	12.9
29-May-89	Bass Harbor	104	2	12.5	12.9
29-May-89	Bass Harbor	104	2	12.6	13.0
29-May-89	Bass Harbor	104	2	12.6	13.0
29-May-89	Bass Harbor	104	2	12.6	13.0
29-May-89	Bass Harbor	104	2	12.6	13.0
29-May-89	Bass Harbor	104	2	12.6	13.0
29-May-89	Bass Harbor	104	2	12.6	13.0
29-May-89	Bass Harbor	104	2	12.8	13.2
29-May-89	Bass Harbor	104	2	12.8	13.2
29-May-89	Bass Harbor	104	2	12.8	13.2
29-May-89	Bass Harbor	104	2	12.8	13.2
29-May-89	Bass Harbor	104	2	12.9	13.3
29-May-89	Bass Harbor	104	2	12.9	13.3
29-May-89	Bass Harbor	104	2	13.1	13.5
29-May-89	Bass Harbor	104	2	13.1	13.5
29-May-89	Bass Harbor	104	2	13.2	13.6

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
29-May-89	Bass Harbor	104	2	13.2	13.6
29-May-89	Bass Harbor	104	2	13.2	13.6
29-May-89	Bass Harbor	104	2	13.2	13.6
29-May-89	Bass Harbor	104	2	13.2	13.6
29-May-89	Bass Harbor	104	2	13.4	13.7
29-May-89	Bass Harbor	104	2	13.4	13.7
29-May-89	Bass Harbor	104	2	13.4	13.7
29-May-89	Bass Harbor	104	2	13.7	14.0
29-May-89	Bass Harbor	104	2	13.7	14.0
29-May-89	Bass Harbor	104	2	13.7	14.0
29-May-89	Bass Harbor	104	2	13.7	14.0
29-May-89	Bass Harbor	104	2	13.8	14.2
29-May-89	Bass Harbor	104	2	14.1	14.4
29-May-89	Bass Harbor	104	2	14.6	14.9
29-May-89	Fairmount Is.	111	2	7.7	8.7
29-May-89	Fairmount Is.	111	1	8.4	9.3
29-May-89	Fairmount Is.	111	2	8.4	9.3
29-May-89	Fairmount Is.	111	2	8.6	9.4
29-May-89	Fairmount Is.	111	2	8.6	9.4
29-May-89	Fairmount Is.	111	2	8.6	9.4
29-May-89	Fairmount Is.	111	2	8.7	9.6
29-May-89	Fairmount Is.	111	2	8.7	9.6
29-May-89	Fairmount Is.	111	2	9.2	10.0
29-May-89	Fairmount Is.	111	2	9.3	10.1
29-May-89	Fairmount Is.	111	2	9.3	10.1
29-May-89	Fairmount Is.	111	2	9.3	10.1
29-May-89	Fairmount Is.	111	2	9.3	10.1
29-May-89	Fairmount Is.	111	2	9.5	10.2
29-May-89	Fairmount [s.	111	2	9.5	10.2
29-May-89	Fairmount Is.	111	2	9.5	10.2
29-May-89	Fairmount Is.	111	2	9.6	10.3
29-May-89	Fairmount Is.	111	1	9.6	10.3
29-May-89	Fairmount Is.	111	2	9.8	10.5
29-May-89	Fairmount Is.	111	2	9.8	10.5
29-May-89	Fairmount Is.	111	2	9.9	10.6
29-May-89	Fairmount Is.	111	2	9.9	10.6
29-May-89	Fairmount Is.	111	2	9.9	10.6
29-May-89	Fairmount Is.	111	2	10.1	10.7
29-May-89	Fairmount Is.	111	2	10.1	10.7

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
29-May-89	Fairmount Is.	111	2	10.1	10.7
29-May-89	Fairmount Is.	111	2	10.2	10.9
29-May-89	Fairmount Is.	111	2	10.2	10.9
29-May-89	Fairmount Is.	111	2	10.4	11.0
29-May-89	Fairmount Is.	111	2	10.4	11.0
29-May-89	Fairrnount Is.	111	2	10.4	11.0
29-May-89	Fairmount is.	111	2	10.4	11.0
29-May-89	Fairmount Is.	111	2	10.4	11.0
29-May-89	Fairmount Is.	111	2	10.5	11.1
29-May-89	Fairmount Is.	111	2	10.5	11.1
29-May-89	Fairmount Is.	111	2	10.5	11.1
29-May-89	Fairmount Is.	111	2	10.5	11.1
29-May-89	Fairmount Is.	111	2	10.5	11.1
29-May-89	Fairmount Is.	111	2	10.7	11.3
29-May-89	Fairmount Is.	111	2	10.7	11.3
29-May-89	Fairmount Is.	111	2	10.8	11.4
29-May-89	Fairmount 1s.	111	2	10.8	11.4
29-May-89	Fairmount Is.	111	2	10.8	11.4
29-May-89	Fairmount 1s.	111	2	11.0	11.5
29-May-89	Fairmount Is.	111	2	11.0	11.5
29-May-89	Fairmount Is.	111	2	11.0	11.5
29-May-89	Fairmount Is.	111	2	11.1	11.7
29-May-89	Fairmount Is.	111	2	11.1	11.7
29-May-89	Fairmount Is.	111	2	11.1	11.7
29-May-89	Fairmount Is.	111	2	11.1	11.7
29-May-89	Fairmount Is.	111	2	11.1	11.7
29-May-89	Fairmount Is.	111	2	11.1	11.7
29-May-89	Fairmount Is.	111	2	11.1	11.7
29-May-89	Fairmount Is.	111	2	11.3	11.8
29-May-89	Fairmount Is.	111	2	11.3	11.8
29-May-89	Fairmount Is.	111	2	11.3	11.8
29-May-89	Fairmount Is.	111	2	11.3	11.8
29-May-89	Fairmount Is.	111	2	11.3	11.8
29-May-89	Fairmount Is.	111	2	11.4	11.9
29-May-89	Fairmount Is.	111	2	11.4	11.9
29-May-89	Fairmount Is.	111	2	11.4	11.9
29-May-89	Fairmount Is.	111	2	11.6	12.1
29-May-89	Fairmount Is.	111	2	11.6	12.1
29-May-89	Fairmount Is.	111	2	11.6	12.1

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
29-May-89	Fairmount is.	111	2	11.7	12.2
29-May-89	Fairmount Is.	111	2	11.7	12.2
29-May-89	Fairmount Is.	111	2	11.7	12.2
29-May-89	Fairmount Is.	111	2	11.9	12.4
29-May-89	Fairmount Is.	111	2	11.9	12.4
29-May-89	Fairmount Is.	111	2	11.9	12.4
29-May-89	Fairmount Is.	111	2	11.9	12.4
29-May-89	Fairmount Is.	111	2	11.9	12.4
29-May-89	Fairmount Is.	111	2	12.0	12.5
29-May-89	Fairmount 1s.	111	2	12.0	12.5
29-May-89	Fairmount Is.	111	2	12.0	12.5
29-May-89	Fairmount Is.	111	2	12.2	12.6
29-May-89	Fairmount Is.	111	2	12.2	12.6
29-May-89	Fairmount Is.	111	2	12.5	12.9
29-May-89	Fairmount Is.	111	2	12.5	12.9
29-May-89	Fairmount Is.	111	2	12.5	12.9
29-May-89	Fairmount Is.	111	2	12.6	13.0
29-May-89	Fairmount Is.	111	2	12.9	13.3
29-May-89	Fairmount Is.	111	2	12.9	13.3
29-May-89	Fairmount Is.	111	2	12.9	13.3
29-May-89	Fairmount Is.	111	2	12.9	13.3
29-May-89	Fairmount Is.	111	2	13.1	13.5
29-May-89	Fairmount Is.	111	2	13.1	13.5
29-May-89	Fairmount Is.	111	2	13.2	13.6
29-May-89	Fairmount Is.	111	2	13.2	13.6
29-May-89	Fairmount Is.	111	2	13.2	13.6
29-May-89	Fairmount Is.	111	2	13.2	13.6
29-May-89	Fairmount Is.	111	2	13.5	13.9
29-May-89	Fairmount Is.	111	2	13.8	14.2
29-May-89	Fairmount Is.	111	2	14.0	14.3
29-May-89	Fairmount Is.	111	2	14.1	14.4
29-May-89	Fairmount Is.	111	2	14.3	14,6
29-May-89	Fairmount Is.	111	2	14.6	14.9
29-May-89	Fairmount Is.	111	2	17.3	17.4
29-May-89	Fairmount Is.	111	2	17.7	17.9
30-May-89	Tatitlek Narrows	90	2	7.8	8.8
30-May-89	Tatitlek Narrows	90	2	8.1	9.0
30-May-89	Tatitlek Narrows	90	2	8.4	9.3
30-May-89	Tatitlek Narrows	90	2	8.4	9.3

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
30-May-89	Tatitlek Narrows	90	2	8.7	9.6
30-May-89	Tatitlek Narrows	90	2	8.7	9.6
30-May-89	Tatitlek Narrows	90	2	8.7	9.6
30-May-89	Tatitlek Narrows	90	2	8.7	9.6
30-May-89	Tatitlek Narrows	90	2	8.9	9.7
30-May-89	Tatitlek Narrows	90	2	8.9	9.7
30-May-89	Tatitfek Narrows	90	2	8.9	9.7
30-May-89	Tatitfek Narrows	90	2	8.9	9.7
30-May-89	Tatitlek Narrows	90	2	8.9	9.7
30-May-89	Tatitlek Narrows	90	2	9.0	9.8
30-May-89	Tatitlek Narrows	90	2	9.0	9.8
30-May-89	Tatitfek Narrows	90	2	9.0	9.8
30-May-89	Tatitlek Narrows	90	2	9.0	9.8
30-May-89	Tatitlek Narrows	90	2	9.0	9.8
30-May-89	Tatitlek Narrows	90	2	9.2	10.0
30-May-89	Tatitlek Narrows	90	2	9.2	10.0
30-May-89	Tatitlek Narrows	90	2	9.2	10.0
30-May-89	Tatitlek Narrows	90	2	9.2	10.0
30-May-89	Tatitlek Narrows	90	2	9.2	10.0
30-May-89	Tatitlek Narrows	90	2	9.3	10.1
30-May-89	Tatitfek Narrows	90	2	9.3	10.1
30-May-89	Tatitlek Narrows	90	2	9.3	10.1
30-May-89	Tatitlek Narrows	90	2	9.3	10.1
30-May-89	Tatitlek Narrows	90	2	9.3	10.1
30-May-89	Tatitlek Narrows	90	2	9.3	10.1
30-May-89	Tatitlek Narrows	90	2	9.5	10.2
30-May-89	Tatitlek Narrows	90	2	9.5	10.2
30-May-89	Tatitlek Narrows	90	2	9.6	10.3
30-May-89	Tatitlek Narrows	90	2	9.6	10.3
30-May-89	Tatitlek Narrows	90	2	9.6	10.3
30-May-89	Tatitlek Narrows	90	2	9.8	10.5
30-May-89	Tatitlek Narrows	90	2	9.8	10.5
30-May-89	Tatitlek Narrows	90	2	9.8	10.5
30-May-89	Tatitlek Narrows	90	2	9.8	10.5
30-May-89	Tatitlek Narrows	90	2	9.8	10.5
30-May-89	Tatitlek Narrows	90	2	9.9	10.6
30-May-89	Tatitlek Narrows	90	2	9.9	10.6
30-May-89	Tatitfek Narrows	90	2	10.1	10.7
30-May-89	Tatitlek Narrows	90	2	10.2	10.9
30-May-89	Tatitlek Narrows	90	2	10.2	10.9

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
30-May-89	Tatitlek Narrows	90	2	10.5	11.1
30-May-89	Tatitlek Narrows	90	2	10.5	11.1
30-May-89	Tatitlek Narrows	90	2	10.5	11.1
30-May-89	Tatitlek Narrows	90	2	10.8	11.4
30-May-89	Tatitlek Narrows	90	2	10.8	11.4
30-May-89	Tatitlek Narrows	90	2	11.6	12.1
30-May-89	Tatitlek Narrows	90	2	11.7	12.2
30-May-89	Tatitlek Narrows	90	2	12.2	12.6
30-May-89	Tatitlek Narrows	90	2	12.3	12.8
30-May-89	Tatitlek Narrows	90	2	12.3	12.8
30-May-89	Tatitlek Narrows	90	2	12.6	13.0
30-May-89	Tatitlek Narrows	90	2	12.8	13.2
30-May-89	Tatitlek Narrows	90	2	12.8	13.2
30-May-89	Tatitlek Narrows	90	2	12.9	13.3
30-May-89	Tatitlek Narrows	90	2	13.4	13.7
30-May-89	Tatitlek Narrows	90	2	13.4	13.7
30-May-89	Tatitlek Narrows	90	2	13.5	13.9
30-May-89	Tatitlek Narrows	90	2	13.7	14.0
30-May-89	Tatitlek Narrows	90	2	13.8	14.2
30-May-89	Tatitlek Narrows	90	2	13.8	14.2
30-May-89	Tatitlek Narrows	90	2	13.8	14.2
30-May-89	Tatitlek Narrows	90	2	14.0	14.3
30-May-89	Tatitlek Narrows	90	2	14.1	14.4
30-May-89	Tatitlek Narrows	90	2	14.1	14.4
30-May-89	Tatitlek Narrows	90	2	14.3	14.6
30-May-89	Tatitlek Narrows	90	2	14.4	14.7
30-May-89	Tatitlek Narrows	90	2	14.6	14.9
30-May-89	Tatitlek Narrows	90	2	14.7	15.0
30-May-89	Tatitlek Narrows	90	2	14.9	15.1
30-May-89	Tatitlek Narrows	90	2	14.9	15.1
30-May-89	Tatitlek Narrows	90	2	14.9	15.1
30-May-89	Tatitlek Narrows	90	2	15.0	15.3
30-May-89	Tatitlek Narrows	90	2	15.3	15.6
30-May-89	Tatitlek Narrows	90	2	15.3	15.6
30-May-89	Tatitlek Narrows	90	2	15.3	15.6
30-May-89	Tatitlek Narrows	90	2	15.6	15.8
30-May-89	Tatitlek Narrows	90	2	16.2	16.4
30-May-89	Tatitlek Narrows	90	2	16.2	16.4
30-May-89	Tatitlek Narrows	90	2	16.2	16.4
30-May-89	Tatitlek Narrows	90	2	16.5	16.7

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
30-May-89	Tatitlek Narrows	90	2	16.5	16.7
30-May-89	Tatitlek Narrows	90	2	17.0	17.1
30-May-89	Tatitlek Narrows	90	2	17.4	17.6
30-May-89	Tatitlek Narrows	90	2	17.7	17.9
30-May-89	Tatitlek Narrows	90	2	17.7	17.9
30-May-89	Tatitlek Narrows	90	2	17.9	18.0
30-May-89	Tatitlek Narrows	90	2	17.9	18.0
30-May-89	Tatitlek Narrows	90	2	19.5	19.6
30-May-89	Rocky Bay	97	2	8.6	9.4
30-May-89	Rocky Bay	97	2	8.7	9.6
30-May-89	Rocky Bay	97	2	8.7	9.6
30-May-89	Rocky Bay	97	1	8.9	9.7
30-May-89	Rocky Bay	97	2	9.8	10.5
30-May-89	Rocky Bay	97	2	10.5	11.1
30-May-89	Rocky Bay	97	2	10.5	11.1
30-May-89	Rocky Bay	97	2	10.8	11.4
30-May-89	Rocky Bay	97	2	10.8	11.4
30-May-89	Rocky Bay	97	2	11.6	12.1
30-May-89	Rocky Bay	97	2	11.9	12.4
30-May-89	Rocky Bay	97	2	11.9	12.4
30-May-89	Rocky Bay	97	2	12.0	12.5
30-May-89	Rocky Bay	97	2	12.8	13.2
7-Jun-89	Fairmount Is.	118	2	8.0	8.9
7-Jun-89	Fairmount 1s.	118	2	8.1	9.0
7-Jun-89	Fairmount Is.	118	2	8.1	9.0
7-Jun-89	Fairmount Is.	118	1	8.1	9.0
7-Jun-89	Fairmount Is.	118	2	8.3	9.2
7-Jun-89	Fairmount Is.	118	2	8.3	9.2
7-Jun-89	Fairmount Is.	118	2	8.3	9.2
7-Jun-89	Fairmount Is.	118	2	8.3	9.2
7-Jun-89	Fairmount Is.	118	2	8.3	9.2
7-Jun-89	Fairmount Is.	118	1	8.3	9.2
7-Jun-89	Fairmount Is.	118	2	8.3	9.2
7-Jun-89	Fairmount Is.	118	1	8.3	9.2
7-Jun-89	Fairmount Is.	118	2	8.4	9.3
7-Jun-89	Fairmount Is.	118	2	8.4	9.3
7-Jun-89	Fairmount Is.	118	2	8.4	9.3
7-Jun-89	Fairmount Is.	118	2	8.4	9.3

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
7-Jun-89	Fairmount Is.	118	1	8.4	9.3
7-Jun-89	Fairmount Is.	118	1	8.4	9.3
7-Jun-89	Fairmount Is.	118	1	8.4	9.3
7-Jun-89	Fairmount Is.	118	2	8.6	9.4
7-Jun-89	Fairmount Is.	118	2	8.6	9.4
7-Jun-89	Fairmount 1s.	118	2	8.6	9.4
7-Jun-89	Fairmount 1s.	118	2	8.6	9.4
7-Jun-89	Fairmount Is.	118	2	8.6	9.4
7-Jun-89	Fairmount Is.	118	1	8.7	9.6
7-Jun-89	Fairmount Is.	118	2	8.7	9.6
7-Jun-89	Fairmount Is.	118	1	8.7	9.6
7-Jun-89	Fairmount Is.	118	2	8.7	9.6
7-Jun-89	Fairmount Is.	118	2	8.7	9.6
7-Jun-89	Fairmount Is.	118	2	8.7	9.6
7-Jun-89	Fairmount Is.	118	2	8.7	9.6
7-Jun-89	Fairmount Is.	118	1	8.7	9.6
7-Jun-89	Fairmount Is.	118	2	8.7	9.6
7-Jun-89	Fairmount Is.	118	2	8.9	9.7
7-Jun-89	Fairmount Is.	118	2	8.9	9.7
7-Jun-89	Fairmount Is.	118	2	8.9	9.7
7-Jun-89	Fairmount Is.	118	2	9.0	9.8
7-Jun-89	Fairmount is.	118	2	9.0	9.8
7-Jun-89	Fairmount Is.	118	2	9.0	9.8
7-Jun-89	Fairmount Is.	118	2	9.0	9.8
7-Jun-89	Fairmount Is.	118	2	9.0	9.8
7-Jun-89	Fairmount Is.	118	2	9.0	9.8
7-Jun-89	Fairmount Is.	118	1	9.2	10.0
7-Jun-89	Fairmount Is.	118	2	9.2	10.0
7-Jun-89	Fairmount Is.	118	2	9.2	10.0
7-Jun-89	Fairmount Is.	118	1	9.2	10.0
7-Jun-89	Fairmount Is.	118	2	9.2	10.0
7-Jun-89	Fairmount Is.	118	2	9.3	10.1
7-Jun-89	Fairmount Is.	118	2	9.3	10.1
7-Jun-89	Fairmount Is.	118	2	9.3	10.1
7-Jun-89	Fairmount Is.	118	2	9.3	10.1
7-Jun-89	Fairmount Is.	118	2	9.5	10.2
7-Jun-89	Fairmount Is.	118	2	9.5	10.2
7-Jun-89	Fairmount Is,	118	2	9.5	10.2
7-Jun-89	Fairmount Is.	118	2	9.5	10.2
7-Jun-89	Fairmount Is.	118	2	9.6	10.3

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
7-Jun-89	Fairmount Is.	118	2	9.6	10.3
7-Jun-89	Fairmount Is.	118	2	9.6	10.3
7-Jun-89	Fairmount is.	118	2	9.6	10.3
7-Jun-89	Fairmount 1s.	118	2	9.6	10.3
7-Jun-89	Fairmount Is.	118	2	9.6	10.3
7-Jun-89	Fairmount Is.	118	2	9.6	10.3
7-Jun-89	Fairmount Is.	118	2	9.6	10.3
7-Jun-89	Fairmount Is.	118	2	9.8	10.5
7-Jun-89	Fairmount Is.	118	2	9.8	10.5
7-Jun-89	Fairmount Is.	118	2	9.9	10.6
7-Jun-89	Fairmount Is.	118	2	9.9	10.6
7-Jun-89	Fairmount Is.	118	2	9.9	10.6
7-Jun-89	Fairmount Is.	118	2	9.9	10.6
7-Jun-89	Fairmount Is.	118	2	10.1	10.7
7-Jun-89	Fairmount Is.	118	2	10.1	10.7
7-Jun-89	Fairmount Is.	118	2	10.1	10.7
7-Jun-89	Fairmount Is.	118	2	10.1	10.7
7-Jun-89	Fairmount Is.	118	2	10.2	10.9
7-Jun-89	Fairmount Is.	118	2	10.2	10.9
7-Jun-89	Fairmount 1s.	118	2	10.5	11.1
7-Jun-89	Fairmount Is.	118	2	10.7	11.3
7-Jun-89	Fairmount Is.	118	2	12.0	12.5
7-Jun-89	Fairmount Is.	118	2	12.2	12.6
7-Jun-89	Fairmount Is.	118	2	12.3	12.8
7-Jun-89	Fairmount Is.	118	2	12.5	12.9
7-Jun-89	Fairmount Is.	118	2	12.5	12.9
7-Jun-89	Fairmount Is.	118	2	12.5	13.0
7-Jun-89	Fairmount Is.	118	2	12.6	13.0
7-Jun-89	Fairmount Is.	118	2	12.8	13.2
7-Jun-89	Fairmount Is.	118	2	12.8	13.2
7-Jun-89	Fairmount Is.	118	2	13.1	13.5
7-Jun-89	Fairmount Is.	118	2	13.2	13.6
7-Jun-89	Fairmount Is.	118	2	13.2	13.6
7-Jun-89	Fairmount Is.	118	2	13.4	13.7
7-Jun-89	Fairmount Is.	118	2	13.4	13.7
7-Jun-89	Fairmount Is.	118	2	13.5	13.9
7-Jun-89	Fairmount Is.	118	2	14.1	14.4
7-Jun-89	Fairmount Is.	118	2	14.3	14.6
7-Jun-89	Fairmount 1s.	118	2	14.6	14.9
7-Jun-89	Fairmount Is.	118	2	14.7	15.0

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
7-Jun-89	Fairmount Is.	118	2	15.2	15.4
7-Jun-89	Fairmount Is.	118	2	15.8	16.0
7-Jun-89	Fairmount Is.	118	2	18.0	18.2
7-Jun-89	Fairmount Is.	118	2	21.0	21.1
7-Jun-89	Rocky Bay	132	2	8.0	8.9
7-Jun-89	Rocky Bay	132	2	8.3	9.2
7-Jun-89	Rocky Bay	132	2	8.4	9.3
7-Jun-89	Rocky Bay	132	1	8.6	9.4
7-Jun-89	Rocky Bay	132	2	8.7	9.6
7-Jun-89	Rocky Bay	132	1	8.9	9.7
7-Jun-89	Rocky Bay	132	2	8.9	9.7
7-Jun-89	Rocky Bay	132	2	8.9	9.7
7-Jun-89	Rocky Bay	132	2	14.0	14.3
7-Jun-89	Rocky Bay	132	2	14.4	14.7
7-Jun-89	Rocky Bay	132	2	14.6	14.9
7-Jun-89	Rocky Bay	132	2	14.9	15.1
7-Jun-89	Rocky Bay	132	2	14.9	15.1
7-Jun-89	Rocky Bay	132	2	15.2	15.4
7-Jun-89	Rocky Bay	132	2	15.3	15.6
7-Jun-89	Rocky Bay	132	2	15.5	15.7
7-Jun-89	Rocky Bay	132	2	15.6	15.8
7-Jun-89	Rocky Bay	132	2	15.8	16.0
7-Jun-89	Rocky Bay	132	2	15.8	16.0
7-Jun-89	Rocky Bay	132	2	16.2	16.4
7-Jun-89	Rocky Bay	132	2	16.3	16.5
7-Jun-89	Rocky Bay	132	2	16.5	16.7
7-Jun-89	Rocky Bay	132	2	16.7	16.9
7-Jun-89	Tatitlek Narrows	139	1	8.0	8.9
7-Jun-89	Tatitlek Narrows	139	2	11.7	12.2
7-Jun-89	Tatitlek Narrows	139	2	12.3	12.8
7-Jun-89	Tatitlek Narrows	139	2	12.8	13.2
7-Jun-89	Tatitlek Narrows	139	2	13.2	13.6
7-Jun-89	Tatitlek Narrows	139	2	17.0	17.1
7-Jun-89	Tatitlek Narrows	139	2	17.6	17.7
8-Jun-89	Bass Harbor	125	2	11.1	11.7
12-Jun-89	Tatitlek Narrows	146	2	10.1	10.7

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
12-Jun-89	Tatitlek Narrows	146	2	10.1	10.7
12-Jun-89	Tatitlek Narrows	146	2	12.0	12.5
12-Jun-89	Tatitlek Narrows	146	2	13.7	14.0
12-Jun-89	Tatitlek Narrows	146	2	15.5	15.7
12-Jun-89	Tatitlek Narrows	146	2	15.8	16.0
12-Jun-89	Tatitlek Narrows	146	2	16.2	16.4
12-Jun-89	Tatitlek Narrows	146	2	16.5	16.7
12-Jun-89	Tatitlek Narrows	146	2	17.0	17.1
12-Jun-89	Tatitlek Narrows	146	2	17.4	17.6
12-Jun-89	Tatitlek Narrows	146	2	17.6	17.7
12-Jun-89	Tatitlek Narrows	146	2	17.7	17.9
12-Jun-89	Tatitlek Narrows	146	2	17.9	18.0
12-Jun-89	Tatitlek Narrows	146	2	18.0	18.2
12-Jun-89	Tatitlek Narrows	146	2	18.0	18.2
12-Jun-89	Tatitlek Narrows	146	2	19.4	19.5
12-Jun-89	Tatitlek Narrows	146	2	20.1	20.2
12-Jun-89	Tatitlek Narrows	146	2	20.3	20.3
12-Jun-89	Tatitlek Narrows	146	2	20.3	20.3
12-Jun-89	Tatitlek Narrows	146	2	21.0	21.1
12-Jun-89	Tatitlek Narrows	146	2	22.1	22.1
12-Jun-89	Tatitlek Narrows	146	2	22.5	22.6
12-Jun-89	Tatitlek Narrows	146	2	22.5	22.6
12-Jun-89	Tatitlek Narrows	146	2	23.3	23.3
13-Jun-89	Fairmount Is.	153	2	7.5	8.5
134nw39	Fairmount Is.	153	2	9.6	10.3
13-Jun-89	Fairmount Is.	153	2	10.7	11.3
13-Jun-89	Fairmount Is.	153	2	10.7	11.3
13-Jun-89	Fairmount Is.	153	2	10.8	11.4
13-Jun-89	Fairmount Is.	153	2	11.0	11.5
13-Jun-89	Fairmount 1s.	153	2	12.0	12.5
13-Jun-89	Fairmount Is.	153	2	13.1	13.5
13-Jun-89	Fairmount Is.	153	2	15.8	16.0
13-Jun-89	Fairmount Is.	153	2	16.2	16.4
13-Jun-89	Fairmount Is.	153	2	16.4	16.6
13-Jun-89	Fairmount Is.	153	2	17.1	17.3
13-Jun-89	Fairmount is.	153	2	17.6	17.7
13-Jun-89	Fairmount 1s.	153	2	18.6	18.7
13-Jun-89	Fairmount Is.	153	2	19.2	19.3
13-Jun-89	Fairmount Is.	153	2	20.4	20.5

Appendix G. Lengths of herring larvae from Prince William Sound, 1989.

Date of capture	Site	Sample number	Yolk	Measured length (mm)	Capture-corrected length (mm)
13-Jun-89	Fairmount Is.	153	2	30.0	30.0
13-Jun-89	Bass Harbor	167	2	9.6	10.3
13-Jun-89	Bass Harbor	167	2	12.5	12.9
13-Jun-89	Bass Harbor	167	2	17.7	17.9
13-Jun-89	Bass Harbor	167	2	22.7	22.7
20-Jun-89	Tatitlek Narrows	174	2	18.2	18.3
21-Jun-89	Bass Harbor	188	2	12.8	13.2
21 -Jun-89	Bass Harbor	188	2	13.1	13.5
21 -Jun-89	Bass Harbor	188	2	16.7	16.9
22-Jun-89	Fairmount Is.	195	2	14.7	15.0
22-Jun-89	Fairmount Is.	195	2	15.0	15.3
22-Jun-89	Fairmount Is.	195	2	15.8	16.0
22-Jun-89	Fairmount Is.	195	2	16.8	17.0
22-Jun-89	Fairmount Is.	195	2	17.3	17.4
22-Jun-89	Fairmount Is.	195	2	17.4	17.6
22-Jun-89	Fairmount Is.	195	2	17.6	17.7
22-Jun-89	Fairmount Is.	195	2	17.6	17.7
22-Jun-89	Fairmount Is.	195	2	17.6	17.7
22-Jun-89	Fairmount Is.	195	2	18.6	18.7
22-Jun-89	Fairmount Is.	195	2	19.5	19.6
22-Jun-89	Fairrnount Is.	195	2	19.5	19.6
22-Jun-89	Fairmount 1s.	195	2	21.8	21.8
22-Jun-89	Fairmount Is.	195	2	26.0	26.0

Notes

1. Yolk: 1 = yolk sac present; 2 = no yolk sac.
2. Corrected length = measured L* EXP(0.91 *EXP(-0.26*measured L)).

Appendix H. Morphometry and condition of herring larvae from Prince William Sound, 1989,

					Measured body dimensions						Capture-corrected body dimensions						
Location	Date of capture	Sample no,	Cohort	Age (d)	length (mm)	pectoral body depth (mm)	anal body depth (mm)	head width (mm)	eye diameter (mm)	dry weight (ug)	length (mm)	pectoral body depth (mm)	anal body depth (mm)	head width (mm)	eye diameter (mm)	dry weight (ug)	morphometric condition factor
Bass Harbour	12-May-89	48	1	8	8.55	0.60	0,26	0,79	0.31	78	9.44	0.57	0.25	0.75	0.31	152	1.2587
Bass Harbour	12-May-89	48	1	6	9,15	0.62	0.29	0.76	0,31	114	9.95	0.59	0.28	0,72	0.31	181	1.9634
Bass Harbour	12-May-89	48	1	6	9.90	0.63	0.30	0.81	0.29	123	10.61	0,60	0.29	0.77	0.29	188	0.7277
Bass Harbour	12-May-89	48	1	6	8.85	0.60	0.26	0.74	0.26	93	9.69	0.57	0.25	0.70	0.26	165	1.4004
Bass Harbour	12-May-89	48	1	6	9.45	0.60	0.26	0.76	0.29	103	10.22	0.57	0.25	0.72	0.29	173	1.2388
Bass Harbour	12-May-89	48	1	6	6.55	0.50	0.24	0,67	0,30	95	9.44	0,45	0.22	0.63	0.30	166	2.6960
Bass Harbour	12-May-89	48	1	6	9.30	0.62	0.29	0.76	0,30	103	10.09	0.59	0.28	0.72	0.30	173	1.7826
Bass Harbour	12-May-89	48	1	6	9.15	0.64	0,26	0.74	0,31	101	9,95	0.62	0.25	0.70	0.31	171	2.1339
Bass Harbour	12-May-89	48	1	6	9.90	0.64	0.27	0.79	0.32	123	10,61	0.62	0,26	0.75	0.32	188	1.2162
Bass Harbour	12-May-89	48	1	6	9.00	0.52	0.27	0.76	0.29	105	9.82	0.47	0.26	0,72	0.29	174	1.1043
Bass Harbour	21-May-89	76	1	15	8.70	0.54	0.29	0.75	0.26	94	9.56	0.50	0.28	0.71	0,26	166	1.2566
Bass Harbour	21 -May-69	76	1	15	9.30	0.62	0.31	0.76	0.29	131	10.09	0,59	0.30	0,72	0.29	194	1,8654
Bass Harbour	21-May-89	76	1	15	10.05	0.50	0.26	0.88	0.29	130	10.74	0.45	0.25	0,84	0,29	193	-1 A400
Bass Harbour	21-May-89	78	1	15	10.20	0.60	0.33	0,88	0.29	134	10.88	0.57	0.32	0.84	0.29	196	4.3794
Bass Harbour	21-May-89	76	1	15	14.25	0.68	0.55	1.00	0.26	445	14.57	0.67	0.55	0.97	0.26	453	-1,3195
Bass Harbour	21-May-69	76	1	15	9.90	0.60	0.35	0,79	0,31	141	10.61	0,57	0,34	0.75	0.31	201	1.5662
Bass Harbour	21-May-89	76	1	15	9.75	0.64	0.31	0.83	0.31	135	10.48	0.62	0.30	0,79	0.31	197	0.8441
Bass Harbour	21-May-89	76	1	15	9.75	0.62	0.31	0.87	0.32	134	10.48	0.59	0.30	0,63	0.32	196	0.2453
Bass Harbour	21 -May-89	76	1	15	9.45	0.62	0.29	0.76	0.31	115	10.22	0.59	0.28	0,72	0.31	182	1,6713
Bass Harbour	21-May-89	76	1	15	10.20	0.62	0.33	0,83	0.36	176	10.88	0.59	0.32	0,79	0.36	226	1.3703
Bass Harbour	21-May-89	76	1	15	9.75	0.64	0.31	0.86	0,31	139	10,40	0.62	0.30	0.82	0.31	199	0.3717
Bass Harbour	21-May-89	76	1	15	10.80	0.69	0.33	0.66	0.31	166	11.41	0.67	0.32	0.82	0.31	219	0,3767
Bass Harbour	21-May-89	76	1	15	10.65	0,69	0.36	0.81	0.31	158	11.28	0.67	0.35	0.77	0.31	213	1.4337
Bass Harbour	21 -May-89	76	1	15	10.05	0.60	0.31	0,81	0.29	136	10.74	0.57	0.30	0.77	0,29	199	0.6470
Bass Harbour	21-May-89	76	1	15	9.60	0.62	0.31	0.88	0.31	135	10,35	0.59	0.30	0.84	0.31	197	0.0291
Bass Harbour	21-May-89	76	1	15	11,70	0.64	0,38	0,83	0,33	176	12.22	0.62	0.37	0.79	0.33	226	0,9467
Bass Harbour	21-May-89	76	1	15	9.60	0.56	0.33	0.90	0.29	125	10.35	0.55	0.32	0.87	0.29	189	-0.5687
Bass Harbour	21-May-89	76	1	15	11.55	0.64	0.40	0.83	0.33	189	12.08	0.62	0.39	0.79	0.33	235	1.1316
Bass Harbour	21-May-89	76	1	15	9.90	0,62	0.31	0.61	0.31	188	10.61	0.59	0.30	0.77	0.31	235	1.1097
Bass Harbour	21 -May-89	76	1	15	10,05	0.60	0.31	0.74	0.29	146	10.74	0,57	0.30	0.70	0.29	204	1,8863

Appendix H. Morphometry and condition of herring larvae from Prince William Sound, 1989.

					Measured body dimensions						Capture-corrected body dimensions						
Location	Date of capture	Sample no.	Cohort	Age (d)	length (mm)	pectoral body depth (mm)	anai body depth (mm)	head width (mm)	eye diameter (mm)	dry weight (ug)	length (mm)	pectoral body depth (mm)	anal body depth (mm)	head width (mm)	eye diameter (mm)	dry weight (ug)	morphometric condition factor
Bass Hart) our	21-May-89	76	1	15	10.60	0.60	0,36	0,62	0.29	141	11.41	0.57	0.35	0.57	0.29	201	4.3989
Bass Harbour	21-May-89	76	1	15	10,05	0,60	0,36	0,86	0.31	121	10.74	0.57	0.35	0.82	0.31	186	0.4203
Bass Harbour	21-May-89	76	1	15	9.45	0.60	0,31	0.79	0.31	106	10.22	0.57	0.30	0.75	0.31	175	1.4049
Bass Harbour	21-May-89	76	1	15	11.25	0.62	0,26	0.76	0,31	184	11.81	0,59	0.25	0.72	0.31	232	1.0631
Bass Harbour	21-May-89	76	1	15	9.90	0.48	0.36	0.74	0.29	133	10.61	0.42	0,35	0.70	0,29	195	1.6279
Bass Harbour	21-May-89	76	1	15	10.80	0.69	0.33	0.63	0.31	189	11.41	0.67	0.32	0.79	0,31	235	0.8878
Bass Harbour	21-May-89	76	1	15	9.00	0.60	0.31	0.83	0.29	112	9.82	0.57	0.30	0.79	0.29	160	0,6677
Bass Harbour	21-May-89	76	1	15	10,20	0.64	0,33	0.81	0.31	144	10.88	0.62	0,32	0,77	0.31	203	1.1746
Bass Harbour	21-May-89	76	1	15	10.65	0.57	0,34	0,66	0.33	169	11.28	0.53	0,33	0.84	0.33	221	-0.0698
Bass Harbour	21-May-89	76	1	15	10,05	0.60	0.33	0.66	0.31	157	10.74	0.57	0.32	0.62	0,31	212	0,2685
Bass Harbour	29-May-89	104	1	23	13,95	0.78	0.46	0.95	0.38	332	14.29	0.75	0.48	0.92	0.38	350	0.1238
Bass Harbour	29-May-89	104	1	23	11.85	0.67	0.39	0,83	0.36	196	12.36	0.65	0.38	0.79	0,36	240	1.4299
Bass Harbour	29-May-89	104	1	23	14.25	0.61	0,52	0.98	0.36	445	14.57	0.60	0,52	0.95	0.36	453	-0.1413
Bass Harbour	29-May-89	104	1	23	13.60	0.76	0.48	0,90	0.36	310	14.15	0.75	0.48	0.87	0,38	331	0.6621
Bass Harbour	29-May-89	104	1	23	13.05	0.67	0,45	0,93	0.33	255	13.48	0.65	0.45	0.90	0.33	286	-0.3999
Bass Harbour	29-May-89	104	1	23	11.25	0.64	0,36	0,86	0.36	174	11.81	0.62	0.35	0,82	0.36	224	0,8157
Bass Harbour	29-May-89	104	1	23	13.50	0.81	0.52	0.95	0.36	320	13.87	0.80	0.52	0,92	0.36	339	0,3679
Bass Harbour	29-May-89	104	1	23	14.70	0.63	0.55	0.98	0.38	421	15.00	0.82	0.55	0.95	0.38	430	0.0973
Bass Harbour	29-May-89	104	1	23	12.45	0.55	0.40	0,83	0.36	240	12.90	0.51	0.39	0.79	0.36	274	1.0271
Bass Harbour	29-May-89	104	1	23	14,25	0,71	0.50	0.95	0.39	390	14.57	0.69	0,50	0.92	0.39	402	0,1206
Bass Harbour	8-Jun-89	125	1	33	11.10	0.62	0.36	0,90	0,38	195	11.66	0.59	0,35	0,87	0.36	240	0.4041
Bass Harbour	13-Jun-89	167	2	13	12,45	0.67	0.40	0.98	0.36	250	12.90	0.65	0.39	0.95	0.36	282	-0.8602
Bass Harbour	13-Jun-89	167	1	38	17.70	0.95	0.71	1.09	0.45	949	17.86	0.95	0.71	1.06	0.45	949	-0.2349
Bass Harbour	13-Jun-89	167	1	36	22,65	1.38	1.17	1.33	0.67	2770	22.71	1.38	1.17	1.31	0.67	2770	-0.0054
Bass Harbour	13-Jun-89	167	2	13	9.60	0.50	0.33	0,69	0.24	120	10.35	0.45	0.32	0.65	0.24	186	1.8809
Bass Harbour	21 -Jun-89	168	2	21	12.75	0.71	0.43	1,02	0.33	268	13.18	0.69	0.43	0.99	0.33	296	-1.4799
Bass Harbour	21-Jun-89	168	1	46	16.65	0,83	0.67	1.05	0.36	716	16.85	0.62	0.67	1.02	0.36	717	-0.8621
Bass Harbour	21 -Jun-89	188	2	21	13,05	0,71	0,48	0.90	0.33	269	13.46	0.69	0.48	0.87	0.33	313	0.3675
Fairmount	5-May-89	13	2	2	6.65	0.43	0.29	0.76	0.27	106	9.69	0.36	0.28	0.72	0.27	177	0.4683

Appendix H, Morphometry and condition of herring larvae from Prince William Sound, 1989.

					Measured body dimensions						Capture-corrected body dimensions						
Location	Date of capture	Sample no,	Cohort	Age (d)	length (mm)	pectoral body depth (mm)	anai body depth (mm)	head width (mm)	eye diameter (mm)	dry weight (ug)	length (mm)	pectoral body depth (mm)	anal body depth (mm)	head width (mm)	eye diameter (mm)	dry weight (ug)	morphometric condition factor
Fairmount	5-May-89	13	2	2	8.40	0.38	0.28	0.69	0.29	100	9.31	0,29	0,25	0.65	0.29	170	1.5036
Fairmount	5-May-89	13	2	2	7.35	0.45	0.26	0.71	0,31	90	8.41	0.39	0.25	0.67	0.31	162	2.3878
Fairmount	5-May-89	13	2	2	8.70	0.50	0.26	0.81	0.27	121	9.56	0.45	0.25	0,77	0.27	186	-0.0969
Fairmount	5-May-89	13	2	2	8.25	0.43	0.29	0,76	0.26	112	9.18	0,38	0,28	0.72	0.26	180	0.5738
Fairmount	5-May-89	13	2	2	8.40	0.45	0.26	0.74	0.29	100	9.31	0,39	0.25	0.70	0.29	170	1.1469
Fairmount	5-May-89	13	2	2	8.40	0.43	0.26	0,71	0.29	94	9.31	0.38	0.25	0.67	0.29	186	1.5482
Fairmount	5-May-89	13	2	2	8.10	0.45	0.24	0.74	0.31	84	9.05	0.39	0.22	0.70	0.31	157	1.2835
Fairmount	5-May-89	13	2	2	8.70	0.48	0.26	0.76	0.26	100	9.56	0.42	0.25	0.72	0.26	170	0.4607
Fairmount	5-May-89	13	2	2	7.65	0.38	0.24	0.69	0.29	-	8.66	0.29	0,22	0.85	0.29	-	.
Fairmount	1 l-May-69	41	2	8	11,10	0.62	0.33	0.74	0.31	149	11.68	0,59	0,32	0.70	0.31	207	2.0138
Fairmount	11-May-89	41	2	8	9.00	0.45	0.26	0.69	0.31	92	9.82	0.39	0.25	0.65	0.31	164	2.1003
Fairmount	11 -May-89	41	2	8	9.90	0.60	0.33	0.74	0.31	114	10.61	0.57	0.32	0.70	0.31	181	2.2921
Fairmount	11 -May-89	41	2	8	10.50	0.57	0,33	0.74	0.31	144	11.14	0.53	0,32	0.70	0.31	203	1.9848
Fairmount	11-May-89	41	2	8	10.05	0.57	0.26	0.71	0,29	107	10.74	0,53	0,25	0.67	0.29	176	1,8132
Fairmount	11-May-89	41	2	8	9.60	0,60	0.29	0,71	0.29	109	10,35	0.57	0.28	0.67	0.29	177	2.3940
Fairmount	11-May-89	41	2	8	10.20	0.48	0.31	0.74	0.31	113	10.88	0.42	0,30	0.70	0,31	181	1.3818
Fairmount	1 l-May-69	41	2	8	9.30	0,52	0.29	0.64	0.29	97	10.09	0.47	0,28	0,59	0.29	168	3.5037
Fairmount	11-May-89	41	2	8	10.95	0.57	0.33	0.76	0.31	158	11.54	0.53	0.32	0.72	0.31	213	1.4863
Fairmount	11-May-89	41	2	8	10.35	0.62	0.31	0.67	0.29	131	11.01	0,59	0.30	0.83	0.29	194	3.2037
Fairmount	21-May-89	83	2	18	10.35	0.62	0.31	0.76	0.33	126	11.01	0.59	0.30	0.72	0.33	190	1.9602
Fairmount	21-May-89	83	2	18	11.85	0.74	0.38	0.83	0,33	179	12.36	0.73	0,37	0.79	0.33	228	1.2649
Fairmount	21-May-89	83	2	18	11.85	0,64	0.38	0,88	0,36	197	12.36	0.62	0,37	0.84	0.36	241	0.4682
Fairmount	21-May-89	83	2	18	10.65	0.62	0.33	0.76	0,33	137	11.28	0,59	0.32	0.72	0.33	198	2.0227
Fairmount	21-May-89	83	2	18	10.65	0.64	0.31	0.83	0,38	131	11.28	0.62	0.30	0,79	0.38	194	1.0802
Fairmount	21-May-89	83	2	18	10.65	0.64	0.31	0,76	0.31	133	11.28	0.82	0.30	0.72	0.31	195	1.7135
Fairmount	21-May-69	83	2	18	10.05	0.60	0.31	0.74	0.31	120	10.74	0,57	0,30	0.70	0.31	186	2.0974
Fairmount	21-May-89	83	2	18	9.75	0.60	0.29	0,76	0.33	113	10.48	0.57	0.28	0.72	0.33	181	1.9046
Fairmount	21-May-89	83	2	18	11.10	0.67	0.33	0,83	0.36	145	11.68	0.65	0,32	0,79	0.36	204	1.2152
Fairmount	21 -May-89	83	2	18	13,50	0.74	0.45	0.88	0,36	292	13,87	0,73	0,45	0,84	0,36	316	0.8216
Fairmount	29-May-89	i l l	2	26	11.40	0.62	0.38	0.74	0,33	182	11.95	0.59	0.37	0.70	0.33	230	2.5271

Appendix H. Morphometry and condition of herring larvae from Prince William Sound, 1989.

					Measured body dimensions						Capture-corrected body dimensions						
Location	Date of capture	Sample no.	Cohort	Age (d)	length (mm)	pectoral body depth (mm)	anal body depth (mm)	head width (mm)	eye diameter (mm)	dry weight (ug)	length (mm)	pectoral body depth (mm)	anal body depth (mm)	head width (mm)	eye diameter (mm)	dry weight (ug)	morphometric condition factor
Fairmount	29-May-89	111	2	26	11,40	0.71	0.40	0.86	0.40	217	11.95	0.69	0.39	0.82	0.40	256	1.7253
Fairmount	29-May-89	111	2	28	15,00	0.93	0.60	1.17	0.45	577	15,28	0.93	0.60	1.15	0.45	580	-1.1010
Fairmount	29-May-89	111	2	26	11.40	0.69	0.38	0.95	0,36	190	11,95	0.67	0.37	0.92	0.36	236	-0.2281
Fairmount	29-May-89	111	2	26	12.45	0.84	0,38	0,90	0.38	216	12.90	0.62	0,37	0.87	0,36	255	0,2023
Fairmount	29-May-89	111	2	26	14.10	0.74	0.48	1.00	0.45	395	14.43	0.73	0.48	0.97	0.45	406	0.0352
Fairmount	29-May-89	111	2	26	16.65	1.07	0.60	1.05	0.48	768	16.85	1.07	0.60	1.02	0,48	769	0.5641
Fairmount	29-May-89	111	2	26	10.80	0.60	0.36	0.90	0.36	171	11.41	0.57	0.35	0,67	0.36	222	0.1834
Fairmount	29-May-89	111	3	4	9.30	0.60	0.29	0.71	0.29	94	10.09	0,57	0.28	0.67	0.29	166	2.4776
Fairmount	29-May-89	111	2	26	10.65	0.67	0.33	0,81	0.33	154	11.28	0.65	0,32	0.77	0.33	210	1,3837
Fairmount	7-Jun-89	118	2	35	15.00	0.83	0.60	1,07	0,45	512	15.28	0.82	0.60	1.04	0.45	516	-0.2396
Fairmount	7-Jun-89	118	3	13	9.45	0.50	0,31	0.74	0.26	100	10.22	0.45	0,30	0.70	0.26	170	1.0962
Fairmount	7-Jun-89	118	3	13	8.10	0.48	0.26	0.67	0.26	80	9.05	0.42	0.25	0.63	0.26	153	2.3629
Fairmount	7-Jun-89	118	2	35	12.00	0.69	0,40	0.90	0.40	211	12.49	0.67	0.39	0.87	0.40	252	0.8415
Fairmount	7-Jun-89	118	2	35	16.05	0.90	0.57	1.05	0,48	535	18.28	0.89	0.57	1.02	0,48	539	0.0650
Fairmount	7-Jun-89	118	3	13	9.75	0.55	0.31	0.74	0.29	118	10.48	0.51	0.30	0.70	0.29	184	1.7106
Fairmount	7-Jun-89	118	2	35	13.50	0.74	0.50	1.05	0.43	296	13.87	0.73	0.50	1.02	0.43	319	-0.6172
Fairmount	7-Jun-89	118	3	13	9,75	0,60	0.36	0.81	0.29	126	10.48	0.57	0,35	0.77	0.29	192	1.0975
Fairmount	7-Jun-89	118	2	35	12.30	0.71	0,45	0.81	0.33	199	12.77	0.69	0.45	0.77	0.33	243	1.7641
Fairmount	7-Jun-89	118	2	35	13,80	0.81	0.48	1.00	0.43	345	14.15	0.80	0.48	0.97	0.43	361	0,1156
Fairmount	13-Jun-89	153	3	19	13.05	0.71	0,48	0,98	0.33	300	13.46	0.69	0.48	0.95	0.33	322	-0,7561
Fairmount	13-Jun-89	153	2	41	17.55	0.88	0,71	1,24	0.45	825	17.72	0.87	0.71	1.22	0.45	825	-2.1139
Fairmount	13-Jun-89	153	3	19	10.80	0,52	0.33	0.76	0.29	146	11.41	0.47	0.32	0.72	0.29	204	1.0049
Fairmount	13-Jun-89	153	3	19	10,65	0,55	0.36	0.71	0.31	170	11.28	0.51	0,35	0.67	0.31	222	2.6396
Fairmount	13-Jun-89	153	2	41	19.20	1.09	0.79	1.24	0.55	1377	19.32	1.09	0.79	1.22	0.55	1377	-0.8073
Fairmount	13-Jun-89	153	2	41	20.40	1.07	0.88	1.33	0.60	1679	20.49	1.07	0.88	1.31	0.60	1679	-1.3653
Fairmount	13-Jun-89	153	3	19	7.50	0.48	0.26	0,52	0.21	69	8.54	0,42	0,25	0.47	0.21	143	5.3082
Fairmount	13-Jun-89	153	2	41	16.20	0.86	0.60	1.24	0.43	529	16.42	0.85	0.60	1,22	0.43	533	-2.5578
Fairmount	13-Jun-89	153	3	19	10.95	0.64	0.36	0.83	0.33	171	11.54	0.62	0.35	0.79	0,33	222	1.0633
Fairmount	13-Jun-89	153	3	19	9.60	0,55	0,29	0.71	0,29	115	10.35	0.51	0.28	0.67	0.29	182	2.1632
Fairmount	22-Jun-89	195	2	50	17.55	1.09	0,79	1.12	0.55	998	17.72	1.09	0.79	1.10	0.55	998	0.7638

Appendix H. Morphometry and condition of herring larvae from Prince William Sound, 1989.

					Measured body dimensions						Capture-corrected body dimensions						
Location	Date of capture	sample no.	Cohort	Age (d)	length (mm)	pectoral body depth (mm)	anal body depth (mm)	head width (mm)	eye diameter (mm)	dry weight (ug)	length (mm)	pectoral body depth (mm)	anal body depth (mm)	head width (mm)	eye diameter (mm)	dry weight (ug)	morphometric condition factor
Fairmount	22-Jun-89	195	2	50	17.55	1.05	0.67	1.19	0.50	811	17,72	1.05	0.67	1.17	0.50	811	-0.9181
Fairmount	22-Jun-89	195	2	50	17.25	0.95	0.69	1.12	0.50	879	17.43	0.95	0.69	1,10	0.50	879	-0.1805
Fairmount	22-Jun-89	195	3	28	15.75	0.79	0.64	0.95	0.38	407	15.99	0.78	0.64	0.92	0.36	417	0.4352
Fairmount	22-Jun-89	195	2	50	21.75	1.50	1.02	1.36	0.79	2662	21.82	1.50	1.02	1.34	0.79	2662	0.3710
Fairmount	22-Jun-89	195	2	50	18.60	1.12	0.83	1.24	0.60	431	18.73	1,12	0.83	1.22	0.60	439	-0.6548
Fairmount	22-Jun-89	195	3	28	14.70	0.74	0.48	0.81	0,38	373	15.00	0,73	0.48	0.77	0.38	386	2.0306
Fairmount	22-Jun-89	195	2	50	17.40	0.90	0.71	1.07	0.45	778	17.57	0.89	0.71	1.04	0.45	778	-0.1253
Fairmount	22-Jun-89	195	2	50	25.95	1.76	1,43	1.55	0.95	5185	25.98	1.76	1.43	1.54	0.95	5185	-0.0004
Fairmount	22-Jun-89	195	2	50	17.55	0.95	0.65	1.00	0.43	558	17.72	0.95	0.65	0.97	0.43	561	0.3524
Rocky Bay	3-May-89	27	1	-	11.55	0.69	0.36	0.83	0.33	167	12.08	0.67	0.35	0,79	0.33	234	1.0751
Rocky Bay	21 -May-89	69	2	14	10.65	0.60	0.36	0.76	0.29	145	11.26	0.57	0.35	0,72	0.29	204	1,6662
Rocky Bay	21-May-89	69	2	14	11.10	0.67	0.36	0.90	0.31	176	11.68	0.65	0.35	0.87	0,31	226	-0.1879
Rocky Bay	21-May-89	69	2	14	9.90	0,60	0.33	0.79	0.29	128	10.61	0.57	0,32	0.75	0,29	192	1.1750
Rocky Bay	21-May-89	69	2	14	9.90	0.55	0.31	0.64	0.29	126	10.61	0.51	0.30	0.59	0.29	190	3.6585
Rocky Bay	21-May-89	69	2	14	8.40	0.45	0.26	0.66	0.24	83	9.31	0.39	0.25	0.82	0.24	156	-1.6387
Rocky Bay	21-May-89	69	2	14	10.20	0.48	0.36	0.86	0.26	159	10.88	0,42	0.35	0.82	0.26	214	-0.8894
Rocky Bay	21-May-89	69	2	14	8.85	0,50	0.29	0,71	0.29	100	9.69	0.45	0.28	0.67	0.29	170	2.1402
Rocky Bay	21-May-89	69	2	14	10.05	0.52	0.29	0.76	0.31	93	10.74	0.47	0.28	0.72	0.31	165	1.1167
Rocky Bay	21-May-89	69	2	14	10.80	0.64	0.36	0,81	0.31	184	11.41	0,62	0.35	0.77	0.31	232	1.2258
Rocky Bay	21-May-69	69	2	14	9.00	0.43	0.29	0.81	0.29	106	9.82	0.36	0.28	0.77	0.29	175	-0.1887
Rocky Bay	30-May-89	97	2	23	12.75	0.67	0,40	0.83	0.36	257	13.18	0,65	0.39	0.79	0.36	287	1.2798
Rocky Bay	30-May-89	97	2	23	11.85	0.64	0.38	0.61	0.29	173	12.38	0,62	0.37	0.77	0.29	224	0.7365
Rocky Bay	30-May-89	97	2	23	11.55	0,64	0.40	0.83	0.33	194	12.08	0.62	0.39	0.79	0.33	239	1.1381
Rocky Bay	30-May-89	97	2	23	12.00	0.64	0.38	0,86	0,31	151	12.49	0.62	0.37	0.82	0.31	208	0,1012
Rocky Bay	30-May-89	97	2	23	10.50	0,69	0.36	0,83	0.31	111	11.14	0.67	0.35	0.79	0.31	179	1.0835
Rocky Bay	30-May-89	97	2	23	11.85	0.62	0.40	0.68	0.33	206	12.36	0.59	0.39	0.64	0.33	248	0,1852
Rocky Bay	30-May-89	97	3	2	8.70	0.50	0.33	0.69	0,26	77	9.56	0.45	0.32	0.65	0.26	151	2.4404
Rocky Bay	7-Jun-89	132	2	31	16.65	0.95	0.60	1.14	0.45	710	16.85	0.95	0.60	1 .12	0.45	711	-1.0581
Rocky Bay	7-Jun-89	132	2	31	16.32	0.83	0.62	1.07	0,45	681	16.53	0,82	0.62	1.04	0.45	682	-0.3976

Appendix H. Morphometry and condition of herring larvae from Prince William Sound, 1989.

					Measured body dimensions						Capture-corrected body dimensions						
Location	Date of capture	Sample no,	Cohort	Age (d)	length (mm)	pectoral body depth (mm)	anal body depth (mm)	head width (mm)	eye diameter (mm)	dry weight (ug)	length (mm)	pectoral body depth (mm)	anal body depth (mm)	head width (mm)	eye diameter (mm)	dry weight (ug)	morphometric condition factor
Rocky Bay	7-Jun-89	132	2	31	16.50	0,68	0.57	1,19	0,45	566	16.71	0.87	0.57	1.17	0.45	569	-1.9611
Rocky Bay	7-Jun-89	132	2	31	15.75	0.86	0.57	1.00	0.43	554	15.99	0.85	0.57	0.97	0,43	557	0.2831
Rocky Bay	7-Jun-89	132	3	10	8.40	0.55	0.24	0.71	0.26	91	9.31	0.51	0,22	0.67	0.26	163	1.6956
Rocky Bay	7-Jun-89	132	2	31	14.85	0.74	0.55	0.98	0.38	462	15.14	0,73	0,55	0.95	0.38	469	-0.1798
Rocky Bay	7-Jun-89	132	2	31	15.15	0,81	0.55	1,24	0.43	500	15.42	0.80	0.55	1.22	0.43	505	-2.6364
Rocky Bay	7-Jun-89	132	3	10	8.85	0,45	0.26	0.71	0.26	-	9,69	0.39	0.25	0.67	0,26		
Rocky Bay	7-Jun-89	132	2	31	14.55	0,71	0.50	0.95	0.36	352	14.85	0.69	0.50	0.92	0.36	367	-0.3025
Rocky Bay	7-Jun-89	132	3	10	8,25	0.45	0.26	0.64	0,26	77	9.18	0.39	0.25	0.59	0.26	151	2.7343
Tatitlek	11-May-89	34	1	8	9.45	0.62	0.31	0.83	0.33	131	10.22	0.59	0.30	0.79	0.33	194	1.1020
Tatitlek	11-May-09	34	1	8	9.45	0.55	0.29	0.79	0.31	96	10.22	0.51	0.28	0,75	0.31	167	0.9814
Tatitlek	11-May-89	34	1	8	9,75	0,60	0.33	0.79	0,31	149	10.48	0.57	0.32	0.75	0.31	207	1.5130
Tatitlek	11-May-89	34	1	8	10.20	0.57	0.31	0.74	0,33	149	10.88	0.53	0.30	0.70	0,33	207	2.1834
Tatitlek	11-May-69	34	1	8	9.45	0.50	0,29	0.83	0.31	130	10,22	0.45	0.28	0.79	0.31	193	0,0915
Tatitlek	11-May-89	34	1	8	9,30	0.48	0.31	0,79	0.31	117	10.09	0,42	0.30	0.75	0.31	183	0.8310
Tatitlek	11-May-89	34	1	8	9.90	0.60	0,31	0.81	0.33	130	10.61	0.57	0.30	0.77	0.33	193	1.1762
Tatitlek	11-May-89	34	1	8	8,75	0.64	0.35	0.81	0.31	135	10,48	0,62	0.34	0,77	0.31	197	1.4640
Tatitlek	11-May-89	34	1	8	9.45	0.60	0.29	0.74	0,31	114	10.22	0.57	0.28	0.70	0.31	181	2.1452
Tatitlek	11-May-89	34	1	8	9,45	0.60	0,31	0.71	0.31	117	10.22	0.57	0.30	0.67	0.31	183	2.8782
Tatitlek	21-May-89	62	1	18	17.40	0.95	0.67	1,05	0,48	791	17.57	0.95	0.67	1.02	0.48	791	0.3689
Tatitlek	21-May-89	62	1	18	10.35	0.64	0,36	0.79	0,36	160	11.01	0.62	0.35	0.75	0.36	214	2.2527
Tatitlek	21-May-89	62	1	18	11.25	0.71	0.40	0.83	0,33	184	11.81	0.69	0.39	0.79	0,33	232	1.4865
Tatitlek	21-May-89	62	1	18	11.70	0,74	0.45	0.86	0.38	226	12.22	0.73	0.45	0.82	0.38	263	1.8144
Tatitlek	21-May-89	62	1	18	11.70	0.64	0.45	0.79	0.33	206	12.22	0.62	0.45	0,75	0.33	248	2.0416
Tatitlek	21-May-89	62	1	18	11.85	0.69	0.43	0.90	0.36	245	12.36	0.67	0.43	0.87	0.36	278	0.6996
Tatitlek	21-May-89	62	1	18	12,30	0.69	0,45	0.95	0.33	211	12.77	0.67	0.45	0.92	0.33	252	-0.4321
Tatitlek	21-May-89	62	1	18	12.30	0.71	0,40	0,86	0,38	227	12.77	0.69	0.39	0.82	0.38	264	1.2537
Tatitlek	21-May-89	62	1	18	12.00	0.74	0,38	0.86	0.36	204	12.49	0.73	0.37	0.82	0.36	246	1.0986
Tatitlek	21-May-89	62	1	18	12.45	0.74	0.43	0.95	0,36	250	12.90	0.73	0.43	0.92	0.36	282	-0.0354
Tatitlek	30-May-69	90	2	10	9.45	0.60	0,29	0.71	0.29	120	10.22	0,57	0,28	0,67	0.29	186	2.4690

Appendix H. Morphometry and condition of herring larvae from Prince William Sound, 1989.

					Measured body dimensions						Capture-corrected body dimensions						
Location	Date of capture	Sample no,	Cohort	Age (d)	length (mm)	pectoral body depth (mm)	anal body depth (mm)	head width (mm)	eye diameter (mm)	dry weight (ug)	length (mm)	pectoral body depth (mm)	anal body depth (mm)	head width (mm)	eye diameter (mm)	dry weight (ug)	morphometric condition factor
Tatitlek	30-May-89	90	1	27	19.50	1.26	0.98	1.31	0.67	2119	19.61	1.26	0.98	1.29	0.67	2119	0.1332
Tatitlek	30-May-89	90	1	27	14.85	0.95	0.55	1,17	0.43	536	15.14	0.95	0,55	1.15	0.43	542	-1.4043
Tatitlek	30-May-89	90	1	27	13.80	0.71	0.52	0.93	0.38	363	14.15	0.69	0.52	0.90	0.38	377	0,4965
Tatitlek	30-May-89	90	1	27	13.35	0.67	0.45	0.90	0.38	272	13.73	0.65	0.45	0.87	0.38	299	0,5004
Tatitlek	30-May-89	90	1	27	16.95	0.93	0.71	1.14	0.48	1565	17.14	0.93	0.71	1,12	0.48	1565	-0.2365
Tatitlek	30-May-89	90	2	10	10.80	0.64	0.36	0.68	0.33	161	11.41	0,62	0,35	0.82	0.33	215	0.6225
Tatitlek	30-May-89	90	1	27	12.30	0.62	0.45	0,76	0.36	223	12.77	0.59	0.45	0.72	0.36	261	2.6414
Tatitlek	30-May-89	90	2	10	9.15	0.60	0.31	0.79	0.29	115	9.95	0.57	0,30	0.75	0.29	182	1.2833
Tatitlek	30-May-89	90	1	27	14.70	0.63	0.57	1,00	0,40	453	15.00	0.62	0.57	0.97	0.40	460	0.1301
Tatitlek	7-Jun-89	139	1	35	17.55	0.86	0.71	1.26	0,55	1001	17.72	0.85	0.71	1.24	0.55	1001	-1.5366
Tatitlek	7-Jun-89	139	1	35	12.75	0,55	0.45	0.88	0,33	269	13.18	0.51	0.45	0.64	0.33	297	-0,0819
Tatitlek	7-Jun-89	139	2	18	11.70	0.64	0.48	0.88	0.33	276	12.22	0.62	0.48	0.64	0.33	303	0.6152
Tatitlek	7-Jun-89	139	1	35	13.20	0,60	0,50	0,95	0.31	327	13.59	0.57	0.50	0.92	0.31	346	4.9353
Tatitlek	7-Jun-89	139	1	35	12.30	0.60	0.45	0,90	0.31	260	12.77	0,57	0.45	0.87	0.31	290	-0.2483
Tatitlek	12-Jun-89	146	2	23	13.65	0.71	0.45	1,02	0,36	349	14.01	0,69	0,45	0,99	0.38	365	-1.2301
Tatitlek	12-Jun-89	146	1	40	20,10	1,14	0.93	1,43	0.55	1534	20,20	1.14	0,93	1,42	0.55	1534	-2.3363
Tatitlek	12-Jun-89	146	1	40	18.00	0.95	0.76	1.19	0.50	944	18.15	0.95	0.76	1.17	0.50	944	-0.9092
Tatitlek	12-Jun-89	146	1	40	15.75	0.90	0.62	1.07	0.40	621	15.99	0.89	0,62	1,04	0,40	623	-0,5466
Tatitlek	12-Jun-89	146	2	23	10.05	0.60	0.40	0,74	0.24	146	10.74	0.57	0.39	0,70	0.24	204	1.7747
Tatitlek	12-Jun-89	146	1	40	17.85	1.05	0.74	1.40	0.50	914	18,01	1.05	0.74	1,38	0.50	914	-2.8197
Tatitlek	12-Jun-89	146	1	40	19.35	1.17	0.68	1.36	0,57	1495	19.47	1.17	0.88	1.34	0.57	1495	-1.4702
Tatitlek	12-Jun-89	146	1	40	23.25	1.56	1.19	1.62	0.79	3635	23.30	1,58	1.19	1.61	0.79	3635	-1.5933
Tatitlek	12-Jun-89	146	1	40	16.50	0.68	0.64	1.07	0.45	751	16,71	0.87	0.64	1.04	0.45	752	-0.1977
Tatitlek	12-Jun-89	146	1	40	18.00	0,95	0.79	1.31	0.52	582	18.15	0.95	0.79	1,29	0.52	585	-2.1219
Tatitlek	20-Jun-89	174	2	31	18.15	1.14	0.83	1.38	0.57	1181	18.30	1.14	0.83	1.36	0.57	1181	-1.6704

Notes:

1. Dashes indicate no data,
2. Ali larvae non-yolk sac,

Appendix I. Number and width of rings In the sagittal otoliths of herring larvae from Prince William Sound herring larvae, 1969.

Location	Date of capture	Sample no.	Fish no.	Cohort	Fish length (mm)	Otolith no.	Otolith radius (urn) min.	Otolith radius (urn) max.	Otolith radius (urn) otol. mean	Otolith radius (urn) fish mean	No. of rings outside check	No. of rings Inside check	No. of rings otolith total	No. of rings fish mean	Ring width (urn) 1	Ring width (urn) 2	Ring width (urn) 3	Ring width (urn) 4	Ring width (urn) 5	Specific growth rate (% d--l) equivalent to each ring 1	2	3	4	5	otol. mean	fish mean
Bass Harbour	29-May-69	105	5	1	16,35	2	-		-	27,0				26			-	-	-								7.79
Bass Harbour	29-May-89	105	6	1	11.85	1	12.0	13.0	12.5		8	(4)	12		1.0	1.0	0.5	1.0	1.0	7.25	7.06	3.43	6.56	6.09	6.08	
Bass Harbour	29-May-69	105	6	1	11.85	2	11.0	15.0	13.0	13.0	9	(4)	13	13	1,0	1.0	1.0	1.5	1.0	7.32	7.17	6.93	9.70	5.79	7.38	6.73
Bass Harbour	29-May-69	105	7	1	12,00	1	18.0	20.0	19.0		10	5	15		1,0	1.0	1.0	1.0	1.0	7.17	7.27	7.35	7.40	7.42	7.32	
Bass Harbour	29-May-89	105	7	1	12.00	2	-		-	19.0				15			-	-	-								7.32
Bass Harbour	29-May-69	105	8	1	13.65	1	15.0	20.0	17.5		15	(4)	19		0.8	1.3	1.0	1.0	1.0	5.46	9.22	7.42	7.42	7.37	7,38	
Bass Harbour	29-May-89	105	8	1	13.65	2	19.0	22.0	20.5	20.0	12	(4)	16	18	1.0	1.0	1.0	1.0	1.0	6.99	7.11	7.22	7.31	7.38	7,20	7.29
Bass Harbour	8-Jun-89	126				-	-										.	.	.							
68s$ Harbour	13-Jun-89	168	1	1	16.50	1	20.0	27.0	23.5		19	(4)	23		1.0	1.0	1.0	1.0	1.0	6.57	6.71	6.85	6.99	7.11	6.85	
Bass Harbour	13-Jun-89	168	1	1	16.50	2	25.0	30.0	27.5	26.0	18	(4)	22	23	1.0	1.0	1.5	1.0	1.0	5.97	6.12	9.46	6.49	6.64	6.94	6.89
Bass Herbour	13-Jun-89	168	2	1	12.75	1	15.0	21.0	18.0		13	4	17		1.0	1.0	1.5	1.5	1.0	7.27	7.35	11.12	11.11	7.32	8.83	
Bass Harbour	13-Jun-89	168	2	1	12.75	2	17.0	18.0	17.5	18.0	11	4	15	16	1.0	1.0	1.0	1.0	1.0	7.31	7.38	7.42	7.42	7.37	7.38	8.11
Bass Harbour	13-Jun-89	168	3	1	17.55	1	36.0	54.0	45.0		34	(4)	38		1.0	1.0	1.5	1.0	1.0	3.85	3.94	6.09	4.19	4.29	4.47	
Bass Harbour	13-Jun-89	166	3	1	17.55	2	36.0	54.0	45.0	45.0				38	1.5	1.5	1.0	1.5	1.0	5.80	6.02	4,14	6.40	4.40	5.35	4.91
Bass Harbour	13-Jun-89	168	4	1	1s.00	1	23.0	30.0	26.5		22	6	28		1.5	1.0	1.0	1.5	1.0	9.24	6.34	6.49	10.01	6.85	7.79	
Bass Harbour	13-Jun-69	168	4	1	15.00	2	-		-	27.0				26			.	.	.								7.79
Bass Harbour	21-Jun-89	189	1	1	20.70	1	32.0	5s.0	43.5		31	(4)	35		1.0	1.0	1.0	1.5	1.0	3.99	4.09	4.19	6.46	4.46	4.64	
Bass Harbour	21-Jun-89	189	1	1	20.70	2	33.0	52.0	42,5	44.0	32	6	38	37	1.0	1.0	1.0	1.0	1.0	4.09	4.19	4.29	4.40	4.51	4.30	4.47
Fairmount	2-May-69	14				-	-										-	-	-							
Fairmount	11-May-89	42				-	-										-	-	.							
Fairmount	21-May-69	84				-	-										.	.	.							
Fairmount	29-May-89	112				-	-										-	-	-							
Fairmount	7-Jun-89	119				-	-	-	-									.	.							
Fairmount	13-Jun-89	154	1	2	15.00	1	23.0	26.0	24.5		19	(4)	23		0.5	0.5	2.0	1.5	1.0	3.19	3.23	13.2.9	10.33	7.05	7.42	
Fairmount	13-Jun-89	154	1	2	15.00	2	22.0	26.0	24.0	25.0	16	(4)	22	23	1.0	1.0	1.3	1.5	1.3	6.49	6.64	6.50	10.46	8.94	8.21	7.81
Fairmount	13-Jun-89	154	2	2	15.06	1	31.0	36.0	33.5		16	(4)	22		1.0	1.0	1.0	2.0	1.0	5.13	5.26	5.40	11.22	5,62	6.56	
Fairmount	13-Jun-89	154	2	2	15.06	2	29.0	35.0	32.0	33.0	19	(4)	23	23	1.0	1.0	1.0	1.5	1.5	5.33	5.47	5.61	8.66	9.01	6.82	6.69
Fairmount	13-Jun-89	154	3	2	16.50	1	30.0	32.0	31.0		21	(4)	25		1.0	1.0	1.0	1.5	1.0	5.47	5.61	5.75	6.90	6.12	6.37	
Fairmount	13-Jun-89	154	3	2	16.50	2	30.0	36.0	33.0	32.0	20	(4)	24	25	1.0	1.0	1.0	1.0	1.0	5.19	5.33	5.47	5.61	5.75	5.47	5.92
Fairmount	13-Jun-89	154	4	3	11.70	1	13.0	15.0	14.0		6	5	11		1.0	1.0	1.0	1.0	1.0	7.40	7.32	7.17	6.93	6.58	7.08	
Fairmount	13-Jun-89	154	4	3	11.70	2	-	-	-	14.0				11				.	.							7.06
Fair mount	13-Jun-89	154	5	2	18.75	1	30.0	41.0	35.5		25	(4)	29		2.0	1.0	2.0	2.0	2.0	9.87	5.13	10.66	11.22	11.79	9.73	
Fairmount	13-Jun-89	154	5	2	16.75	2	3040	43.0	36.5	37.0	25	(4)	29	29	1.0	1.0	1.0	1.0	1.0	4.75	4.87	5.00	5.13	5.26	5.00	7.37
Fairmount	13-Jun-89	154	6	3	11.70	1	16.0	16.0	17.0		8	3	11		0.5	0.5	0.8	1.3	1.5	3.67	3.68	5.55	9.28	11.07	6.65	
Fairmount	13-Jun-89	154	6	3	11.70	2	-	-	.	17.0				11			.	.	.							6.6s
Fairmount	13-Jun-89	154	7	2	17.85	1	30.0	40.0	35.0		27	(4)	31		1,0	1.0	1.5	1.0	1.5	4.93	5.06	7.84	5.40	8.36	6.32	
Fairmount	13-Jun-89	154	7	2	17.85	2	30.0	38.0	34.0	35.0	28	(4)	32	32	1.5	1.5	2.0	1.5	1.5	7.64	7.94	11.07	8.68	9.01	0.87	7.59
Fairmount	13-Jun-89	154	8	2	19.50	1	36.0	40.0	38.0		27	(4)	31		1.0	2.0	1.5	2.0	1.5	4.57	9.50	7.45	10.39	8.15	8,01	

Appendix L Number and width of rings In the sagittal otoliths of herring larvae from Prince William Sound herring larvae, 1989.

Location	Date of capture	Sample no.	Fish no.	Cohort	Fish length (mm)	Otolith no.	Otolith radius (urn) min.	max.	otol. mean	fish mean	No. of rings outside check	Inside check	total	mean	Ring width (urn) otolith 1	2	3	4	5	fish 1	2	3	4	5	Specific growth rate (% d--l) equivalent to each ring otol. mean	fish mean
Fairmount	13-Jun-69	154	8	2	19.50	2	35.0	41.0	38.0	38,0	28	(4)	32	32	1.5	2.0	1.5	1.5	1.5	6.90	9.62	7.54	7.84	8.15	8.01	6.01
Fairmount	13-Jun-89	154	9	3	8.55	1	10.0	11.0	10.5		3	(4)	7		1.0	1.0	1.0		-	6.77	6.35	5.79			6.30	
Fairmount	13-Jun-89	154	9	3	8.55	2	10.0	11.0	10.5	11.0	2	(4)	6	7	1.5	1.5			-	10.01	8,91				9.46	7.57
Fairmount	22-Jun-89	196	1	2	19.50	1	40.0	62.0	51.0		36	(4)	40		1.0	1.5	0.5	1.5	1.5	3.34	5.16	1.76	5.40	5.60	4.25	
Fairmount	22-Jun-89	196	1	2	19.50	2	40.0	60.0	50.0	51.0	39	(4)	43	42	1.0	1.0	1.0	1.0	1.0	3.42	3.50	3.58	3.67	3.75	3.58	3.92
Fairmount	22-Jun-89	198	2	2	17.85	1	40.0	50.0	45.0		30	5	35		1.0	1.0	1.5	2.0	1.0	3.85	3.94	6.09	8.48	4.40	5.35	
Fairmount	22-Jun-89	196	2	2	17.85	2	36.0	55.0	46.5	46.0	33	5	36	37	1.0	2.0	2.5	2.0	1.5	3.71	7.69	10.16	8.59	6.73	7.37	6.36
Fairmount	22-Jun-89	196	3	2	10.00	1	35,0	50.0	42,5		31	4	35		1.0	1.5	2.5	1.0	2.0	4.09	6.32	11.08	4.63	9.62	7.15	
Fairmount	22-Jun-89	196	3	2	16.00	2	34.0	50.0	42.0	43.0	32	5	37	36	2.0	1.5	1.5	1.0	2.0	8.38	6.56	6.81	4.69	9.74	7.24	7.19
Fairmount	22-Jun-89	196	4	2	19.80	1	45,0	65.0	55.0		34	(4)	38		1.0	1.5	1.5	2.0	3.0	3.05	4.71	4.87	6.76	10.74	6.03	
Fairmount	22-Jun-89	196	4	2	19.80	2	43.0	60.0	51.5	54.0	32	(4)	36	37	1.0	2.0	2.0	2.5	2.5	3.30	6.64	7.16	9.44	10.03	7.36	6.69
Fairmount	22-Jun-89	196	5	3	11.55	1	15,0	16.0	15.5		9	(4)	13		0.5	0.5	1.0	1.0	1.0	3.71	3.71	7.42	7.37	7.25	5.69	
Fairmount	22-Jun-89	196	5	3	11.55	2	15.0	16.0	15.5	16.0	9	4	13	13	0.8	0.8	0.5	1.0	1.0	5.56	5.57	3.71	7.37	7.25	5.69	5.69
Fairmount	22-Jun-69	196	6	2	17.10	1	23.0	36.0	29.5		22	5	27		1.0	1.5	0.5	1.0	1.0	5.68	8.79	3.00	6.12	6.27	5.97	
Fairmount	22-Jun-89	196	6	2	17.10	2	-	-	-	30,0				27												5.97
Fairmount	22-Jun-89	196	7	2	19.80	1	44.0	65.0	S4.5		31	5	36		1.0	1.0	1.0	1.0	1.0	3.09	3.16	3.23	3.30	3.38	3.23	
Fairmount	22-Jun-89	196	7	2	19.80	2	46.0	62.0	54.0	55.0	30	(4)	34	35	1.0	1.0	1.0	1.0	1.0	3.12	3.19	3.27	3.34	3.42	3.27	3.25
Rocky Bay	3-May -89	26			-	-	-	-																		
Rocky Bay	12-May-89	56				-	-	-																		
Rocky Bay	21-May-89	70																								
Rocky Bay	30-May-89	98	1	2	9.30	1	12.0	13.0	12.5		2	6	8		1.0	1.0			-	7.25	7.06				7,16	
Rocky Bay	30-May-89	98	1	2	9.30	2	-	-	-	13.0				6												7.16
Rocky Bay	30-May-89	98	2	2	9.75	1	10.0	12.0	11.0		4	5	9		1.0	1.0	1.0	1.0	-	6.93	6.58	6.09	5.44		6.26	
Rocky Bay	30-May-89	90	2	2	9.75	2	11.0	12.0	11.5	12.0	4	6	10	10	1.0	1.0	1.0	1.0		7.06	6.77	6.35	5.79		6.49	6.38
Rocky Bay	7-Jun-89	133	1	2	16.50	1	21,0	26.0	23.5		17	4	21		1.0	0.5	2.0	1,0	1.0	6.57	3.34	13.70	7.05	7.17	7.56	
Rocky Bay	7-Jun-89	133	1	2	16.50	2	20.0	25.0	22.5	24.0	17	(4)	21	21	1.0	1.0	1.5	1.0	1.0	6.71	6.65	10.53	7.17	7.27	7.71	7.63
Rocky Bay	7-Jun-89	133	2	2	13.95	1	21.0	24.0	22.5		12	4	16		0.8	1.3	0.5	1.5	1.0	5.02	8.54	3.46	10.62	7.22	6.96	
Rocky Bay	7-Jun-89	133	2	2	13.95	2	20.0	21.0	20.5	22.0	11	4	15	16	1.0	1.0	1.0	1.0	1.0	6.99	7.11	7.22	7.31	7.36	7.20	7.09
Rocky Bay	7-Jun-89	133	3	2	15.06	1	25.0	29.0	27.0		15	(4)	19		1.5	1.5	1.5	1.5	1.5	9.12	9.46	9.79	10.12	10.43	9.79	
Rocky Bay	7-Jun-89	133	3	2	15.06	2	23.0	31.0	27.0	27.0	16	4	20	20	1.5	1.0	2.0	1.0	1.0	9.12	6.27	12,99	6.71	6.85	6.39	9.09
Rocky Bay	7-Jun-89	133	4	2	14.40	1	18.0	20.0	19.0		11	(4)	15		1.0	1.5	1,0	1.0	1.0	7.17	10.93	7.36	7.42	7.42	6.06	
Rocky Bay	7-Jun-89	133	4	2	14.40	2	-	-	-	19.0				15												6.06
Rocky Bay	7-Jun-89	133	5	2	13.80	1	21.0	25,0	23.0		13	5	16		1.0	1.5	0.5	1.0	1.0	6.64	10.23	3.46	7.05	7.17	6.91	
Rocky Bay	7-Jun-89	133	5	2	13.80	2	20.0	25.0	22.5	23.0	15	5	20	19	1.0	1.5	1.0	1.5	1.0	6.71	10.33	7.05	10.79	7.31	6.44	7.68
Rocky Bay	7-Jun-89	133	6	3	8.55	1	10.0	11.0	10,5		1	4	5		1.0				-	6.77					6.77	
Rocky Bay	7-Jun-89	133	6	3	6.55	2	10.0	11.0	10.5	11.0	1	5	6	6	1.0				-	6.77					6.77	6.77
Rocky Bay	7-Jun-89	133	7	2	14.70	1	21.0	22.0	21.5		15	4	19		1.0	1.0	1.0	1.5	2.0	6.05	6.99	7.11	10.87	14.75	9.31	
Rocky Bay	7-Jun-89	133	7	2	14.70	2	22.0	24.0	23.0	23.0	16	(4)	20	20	1.0	1.5	0.5	2.0	1.5	6.64	10.23	3.48	14.22	10.93	9.10	9.21

Appendix 1. Number and width of rings In the sagittal otoliths of herring larvae from Prince William Sound herring larvae, 1989.

Location	Date of capture	Sample no.	Fish no.	Cohort	Fish length (mm)	Otolith no.	Otolith radius (um) min.	max.	otol. mean	fish mean	No. of rings outside check	Inside check	otolith total	fish mean	Ring width (urn) 1	2	3	4	5	Specific growth rate (% d^-1) equivalent to each ring 1	2	3	4	5	otol. mean	fish mean
Rocky Bay	7-Jun-89	133	8	2	15.00	1	22.0	28.0	25.0		20	(4)	24		1.0	1.5	1.0	0.5	1.0	6.34	9.79	6.71	3.41	6.92	6.64	
Rocky Bay	7-Jun-89	133	8	2	15.00	2	-	-	-	25.0				24												6.64
Rocky Bay	7-Jun-89	133	9	3	9.45	1	9.0	10.0	9.5		3	5	8		1.0	0.5	0.5		-	6.35	2.96	2.81			4.05	
Rocky 8ey	7-Jun-89	133	9	3	9.45	2	9.0	10.0	9.5	10.0	3	5	8	8	1.0	1.0	1.0		-	6.35	5.79	5.04			5.73	4.89
Rocky Bay	7-Jun-89	133	10	3	8.55	1	9.0	10.0	9.5		1	4	5		1.0				-	6.35					6.35	
Rocky Bay	7-Jun-89	133	10	3	0.55	2	-	-	-	10.0				5												6.35
Rocky Bay	7-Jun-89	133	11	3	9.15	1	11.0	12.0	11.5		2	5	7		1.0	1.0			-	7.06	6.77				6,92	
Rocky Bay	7-Jun-89	133	11	3	9.1s	2	11.0	12.0	11,5	12.0	2	s	7	7	1.0	1.0			-	7.06	6.77				6.92	6.92
Rocky Bay	7-Jun-89	133	12	2	14.55	1	15.0	25.0	20.0		16	(4)	20		1.0	1.0	0.5	0.5	1.0	7.05	7.17	3.62	3.65	7.35	5.77	
Rocky Bay	7-Jun-89	133	12	2	14.55	2	17.0	20.0	18.5	19.5	14	(4)	18	19	1.0	1.0	1,0	1.0	1.0	7.22	7.31	7.38	7.42	7.42	7.35	6.56
Rocky Bay	12-Jun-89	161	1	2	16.50	1	19.0	24.0	21,5		17	4	21		1.0	1.0	1.0	1.0	1.0	6.65	6.99	7.11	7.22	7.31	7.10	
Rocky Bay	12-Jun-89	161	1	2	16.50	2	-	-	-	22.0				21												7.10
Tatitlek	2-May-69	7				.		.	--																	
Tatitlek	11-May -89	35				.	.	.	.																	
Tatitlek	20-May-89	63		.	.	.	.	.	.																	
Tatitlek	30-May-89	91	1	1	16.65	1	25.0	28.0	26.5		15	3	18		1.0	1.0	2.0	1.0	1.5	5.50	5.66	11.84	6.16	9.59	7.75	
Tatitlek	30-May-89	91	1	1	16.65	2	-	-	-	27.0				18												7.75
Tatitlek	30-May-89	91	2	1	13.95	1	22.0	27.0	24.5		13	2	15		1.0	1.0	1.0	1.0	1.0	5.63	6.00	6.18	6.35	6.52	6.18	
Tatitlek	30-May-69	91	2	1	13.95	2	-	-	-	25.0				15												6.18
Tatitlek	30-May-89	91	3	1	19.80	1	35.0	50.0	42.5		30	6	36		1.5	1.0	1.0	1.0	1.0	5.24	3.61	3.71	3.82	3.93	4.06	
Tatitlek	30-May-89	91	3	1	19.80	2	36.0	50.0	43.0	43.0	30	5	35	36	1.0	1,0	1.5	1.0	1.0	3.42	3.52	5.46	3.77	3.67	4.01	4.03
Tatitlek	30-May-89	91	4	2	10.80	1	11.0	12.0	11.5		4	4	8		1.0	1.0	1.0	1.0	-	7.92	7.75	7.45	6.99		7.53	
Tatitlek	30-May-89	91	4	2	10.80	2	-	-	-	12.0				8												7.53
Tatitlek	30-May-89	91	5	1	13.05	1	20.0	21.0	20.5		11	3	14		1.0	1.0	1.0	1.0	1.0	6.52	6.69	6.85	7.01	7.15	6,84	
Tatitlek	30-May-89	91	5	1	13.05	2	20.0	22.0	21.0	21.0	12	4	16	15	1.0	1.0	1.0	1.0	1.0	6.44	6.61	6.77	6.93	7.08	6.77	6.81
Tatitlek	30-May-89	91	6	2	8.40	1	11.0	12.0	11,5		1	6	7		0.5				-	3.97					3.97	
Tatitlek	30-May-89	91	6	2	0.40	2	-	-	.	12.0				7												3.97
Tatitlek	30-May-69	91	7	1	14.10	1	20.0	33.0	26.5		19	5	24		1.0	1.0	1.0	1,5	1.0	5.50	5.66	5.83	9.07	6.26	6.47	
Tatitlek	30-May-89	91	7	1	14.10	2	20.0	32.0	26.0	'27.0	18	(4)	22	23	1.5	0.5	1.0	1.5	1.0	&43	2.89	5.92	9.20	6.35	6.56	6.51
Tatitlek	30-May-89	91	6	1	16.20	1	18.0	30.0	24.0		14	4	18		1.5	1.5	2.0	1.0	2.0	6.94	9.33	13.04	6.77	14.01	10.42	
Tatitlek	30-May-89	91	8	1	16.20	2	22.0	28.0	25.0	25.0	15	4	19	19	1,5	1.5	1.5	1.5	2.0	8.69	9.07	9.46	9.85	13.71	10.15	10.29
Tatitlek	30-May-69	91	9	1	17.10	1	29.0	33.0	31.0		19	6	25		1.5	1.0	1.5	1.0	1.5	7.27	5.03	7.83	5.42	8.43	6.80	
Tatitlek	30-May-99	91	9	1	17.10	2	29.0	32.0	30.5	31.0	19	3	22	24	1.0	1.0	2.0	1.5	1.5	4.88	5.03	10.52	8.31	8.69	?.49	7.14
Tatitlek	30-May-89	91	10	1	19.50	1	32.0	42.0	37.0		19	(4)	23		1.5	1.5	1.5	1.5	3.0	6.10	6.37	6.65	6.95	14.87	8.19	
Tatitlek	30-May-89	91	to	1	19.50	2	30.0	41.0	35.5	37.0	19	(4)	23	23	2.0	1.5	1.0	1.5	2.0	8.56	6.75	4.67	7.27	10.21	7.49	7.64
Tatitlek	30-May-89	91	tl	1	16.50	1	16.0	20.0	18.0		16	3	19		1.0	1.0	1.0	1.0	1.0	6.93	7.08	7.21	7.31	7.39	7.18	
Tatitlek	30-May-89	91	11	1	16.50	2	-	-	-	18.0				19												7.18
Tatitlek	30-May-69	91	12	1	16.50	1	15.0	19.0	17.0		11	(4)	15		0.5	1.0	0.5	1.5	1.5	3.52	7.15	3.62	11.00	11.11	7.28	

Appendix 1. Number and width of rings In the sagittal otoliths of herring larvae from Prince William Sound herring larvae, 1989,

Location	Date of capture	Sample no,	Fish no.	Cohort	Fish length (mm)	Otolith no.	Otolith radius (urn) min.	max.	otol. mean	fish mean	No. of rings outside check	Inside check	otolith total	fish mean	Ring width (urn) 1	2	3	4	S	Specific growth rate (% d^-1) equivalent to each ring 1	2	3	4	5	otol. mean	fish mean
Tatitlek	30-May-89	91	12	1	16.S0	2	-	-	-	17.0				15			-	-								7.28
Tatitlek	30-May-89	91	13	1	18,00	1	17.0	22.0	19.5		19	5	24		1.0	1.0	1.0	1.0	1.0	6.69	6.65	7.01	7.15	7.27	6.99	
Tatitlek	30-May-89	91	13	1	18.00	2	-	-	-	19.5				24			.	.								6.99
Tatitlek	30-May-89	91	14	1	15.30	1	12.0	16.0	14.0		11	(4)	15		1.0	1.5	0.5	1.5	1.0	7.39	11.11	3.68	10.84	6.91	7.99	
Tatitlek	30-May-89	91	14	1	15,30	2	-	-	-	14.0				15			.	-								7.99
Tatitlek	30-May-89	91	15	1	15.60	1	13.0	14.0	12.0		10	(4)	15		1.0	0.5	0.5	1.0	1.5	7.38	3.66	3.62	7.06	9.89	6.32	
Tatitlek	30-May-89	91	15	1	1S.60	2	-	-	-	12.0				15			.	.								6.32
Tatitlek	7-Jun-89	140	1	1	15.30	1	24.0	30.0	27.0		19	4	23		1.0	1.0	1.0	1.0	1.0	5.42	5.56	5.75	5.92	6.09	5.75	
Tatitlek	7-Jun-89	140	1	1	15.30	2	2S.0	30.0	27,S	28.0	19	(4)	23	23	1.0	1.0	1.5	0.5	2.0	5.34	5.50	6.56	2.94	12.18	6.90	6.33
Tatitlek	7-Jun-89	140	2	2	14.40	1	20.0	25.0	22.5		14	5	19		1.0	1.0	0.5	1.0	1,0	6.66	6.85	3.50	7.13	7,31	6.29	
Tatitlek	7-Jun-89	140	2	2	14.40	2	24.0	27.0	25.5	25.0	15	5	20	20	0.8	1.3	1.0	1.5	1.0	4>57	7.04	6.48	10.06	6.94	7.18	6.73
Tatitlek	7-Jun-89	140	3	1	17.70	1	30.0	40.0	35.0		25	(4)	29		1.5	1.5	1.5	1.5	1.5	6.46	6.75	7.06	7.36	7.71	7.07	
Tatitlek	7-Jun-89	140	3	1	17.70	2	31.0	40.0	35.5	36.0	24	3	27	20	1.0	1.0	1.0	1.5	1.5	4.22	4.34	4.47	6.95	7.27	5,4S	6.26
Tatitlek	7-Jun-89	140	4	2	15.09	1	21.0	26.0	23.5		14	(4)	18		1.0	1.0	1.5	1.5	1.0	6.48	6.66	10.35	10.76	7.39	8.33	
Tatitlek	7-Jun-89	140	4	2	1s.09	2	20.0	27.0	23.5	24.0	14	(4)	18	18	1.0	0.5	1.0	1.0	1.5	6.48	3.31	6.76	6.94	10.76	6.85	7.59
Tatitlek	7-Jun-89	140	5	3	9.45	1	11.0	12.0	11.5		3	(4)	7		1.0	0.5	0.5	-	-	8.54	4.21	4.15			5.63	
Tatitlek	7-Jun-89	140	5	3	9.45	2	-	-	-	12.0				7			.	-								5.63
Tatitlek	7-Jun-89	140	6	2	15.30	1	23.0	24.0	23.5		11	3	14		1.0	1.0	1.0	1.0	1.0	6.48	6.66	6.85	7.04	7,22	6.85	
Tatitlek	7-Jun-89	140	6	2	15.30	2	.	-	-	24.0				14			.	.								6.85
Tatitlek	7-Jun-89	140	7	1	16,05	1	23.0	27.0	25.0		22	3	2s		1.0	1.0	1.0	1.5	1.0	5.75	5.92	6.09	9.46	6.52	6,75	
Tatitlek	7-Jun-89	140	7	1	16.05	2	25,0	33,0	29.0	27.0	22	3	2s	25	1.0	1.0	1.0	1.0	1.0	S.1O	5.26	5.42	5.58	5.75	5,42	6.08
Tatitlek	7-Jun-89	140	9	1	15.06	1	23.0	31.0	27,0		20	5	25		1.0	1.0	1.5	1.5	1.0	5.42	5.58	6.69	9.07	6.26	7.00	
Tatitlek	7-Jun-89	140	9	1	15.06	2	-	-	-	27.0				25												7.00
Tatitlek	7-Jun-89	140	12	3	13.05	1	12.0	14.0	13.0		4	(4)	8		1.0	1,0	1.0	1.0	-	8.63	8.59	8.46	8.22	0.00	6.76	
Tatitlek	7-Jun-89	140	12	3	13.05	2	-	-	-	13.0				8			.	.								6.78
Tatitlek	12-Jun-89	147		.	.	--		.	.								.	-								
Tatitlek	20-Jun-89	175	1	1	23.25	1	59.0	90.0	74.5		42	(4)	46		1.0	1.0	1.0	1.0	1.0	1.67	1.71	1.74	1.77	1.61	1,74	
Tatitlek	20-Jun-89	175	1	1	23.25	2	56.0	8S.0	71,5	74.0	52	(4)	56	51	1.0	1.0	1.0	1.0	1.0	1.77	1,61	1.85	1.88	1.92	1,85	1.79
Tatitlek	20-Jun-89	175	2	1	22.50	1	51,0	100.0	75.5		49	(4)	53		0.8	0.6	1.5	1.0	1.0	1,23	1.25	2.55	1.74	1.77	1.71	
Tatitlek	20-Jun-89	175	2	1	22.50	2	62.5	100.0	81.3	79,0	53	(4)	57	55	1.0	1.0	1.0	1.0	1.0	1.48	1.50	1.53	1,56	1.59	1,53	1.62

Notes:

1. All larvae non yolk sac.
2. Dashes Indicate no data available.
3. Mean number of rings Inside the check: 4.3 (SD=0.9, n-72).
4. Bracketed ring numbers were estimated (sea note 3),

Appendix J.RNA/DNA ratios of herring larvae collected from Prince William Sound, 1989.

Location	Date of capture	Vial no.	Fish length (mm)	Yolk sac	Cohort no.	Age (d)	Dry weight (ug)	Method of analysis	Nucleic acid concentration (ug/fish) DNA	RNA	RNA/DNA	Accuracy-corrected concentration (ug/fish) DNA	RNA	RNA/DNA
Bass Harbour	2-May-89	7 7	5,5	1	1	-4	152	KW	3.540	0,671	0.190	0.728	1.395	1.917
Bass Harbour	2-May-89	86	5.5	1	1	-4	152	KW	3.690	4.194	1.137	0.759	8,719	11,493
Bass Hart) our	2-May-89	87	6.0	1	1	-4	154	KW	3.540	0,671	0.190	0.728	1.389	1.908
Bass Harbour	2-May-89	7 3	6.0	0	1	-4	132	KW	2.832	1.338	0.473	0.582	2.923	5.020
Bass Harbour	2-May-69	79	6.0	0	1	-4	132	KW	3.540	2.009	0.568	0.728	4.389	6.030
Bass Harbour	2-May-89	69	6.0	1	1	- 4	154	KW	3.894	1.338	0.344	0.601	2.769	3.459
Bass Harbour	2-May-69	80	6.5	0	1	-4	135	KW	2.952	4.897	1.659	0.607	10.625	17.506
Bass Harbour	2-May-69	76	6.5	1	1	-4	157	KW	6.084	1.332	0.219	1.251	2.741	2.192
Bass Harbour	2-May-69	88	6.5	1	1	-4	157	KW	4.956	2.009	0.405	1.019	4.134	4.057
Bass Harbour	12-May-89	181	7.5	1	1	6	164	KW	2.196	2.191	0.998	0.451	4.439	9.832
Bass Harbour	12-May-89	177	8.0	1	1	6	169	KW	2.196	0.732	0.333	0.451	1.469	3.254
Bass Harbour	12-May-89	166	8.0	1	1	6	169	KW	3.354	0,971	0.290	0.690	1.948	2.825
Bass Harbour	12-May-69	187	8,0	1	1	8	169	KW	2.970	2.191	0.738	0.611	4.396	7.198
Bass Harbour	12-May-89	170	6.0	1	1	6	169	KW	2.454	0.971	0.396	0.505	1.948	3,862
Bass Harbour	12-May-89	189	8.5	1	1	6	174	KW	2,196	1.459	0.864	0,451	2.893	6.407
Bass Harbour	12-May-89	178	8.5	0	1	6	152	KW	2.454	1.218	0.496	0.505	2.532	5,019
Bass Harbour	12-May-69	173	9.0	0	1	6	159	Kw	2.712	1.218	0.449	0.558	2.494	4,473
Bass Harbour	12-May-89	165	9.0	0	1	6	159	KW	3.486	0,732	0.210	0.717	1.500	2.092
Bass Harbour	12-May-89	192	9,0	1	1	6	181	KW	3.228	2.430	0.753	0.664	4.755	7.164
Bass Harbour	21-May-69	297	7.0	0	1	15	138	KW	1.800	1.579	0,877	0.370	3.398	9,183
Bass Harbour	21-May-89	303	8.0	0	1	15	147	KW	5.244	1.830	0.349	1.078	3.856	3,576
Bass Harbour	21-May-69	304	8.5	0	1	15	152	KW	6.348	2.609	0.411	1.305	5.426	4,157
Bass Harbour	21-May-89	288	8.5	0	1	15	152	KW	7.452	4,435	0.595	1.532	9.223	6.020
Bass Harbour	21-May-89	301	9.0	0	1	15	159	Kw	6.762	3.397	0.502	1.390	6.957	5.004
Bass Harbour	21-May-89	295	9.5	0	1	15	167	KW	7.314	2.088	0.286	1.504	4.203	2.795
Bass Harbour	21-May-69	309	9.5	0	1	15	167	KW	8.004	4.435	0.554	1.646	8.926	5,424
Bass Harbour	21-May-89	296	10.0	0	1	15	177	Kw	1.800	2.929	1.627	0.370	5.781	15.621
Bass Harbour	21-May-89	292	10.0	0	1	15	177	Kw	3.120	3.829	1.227	0.641	7.557	11.761
Bass Harbour	21-May-89	298	10.0	0	1	15	177	KW	6.072	0.786	0,129	1.248	1.550	1.242
Bass Harbour	21-May-89	285	10.0	0	1	15	177	Kw	9.246	7.050	0.762	1.901	13.915	7,320
Bass Harbour	21 -May-89	307	10.0	0	1	15	177	Kw	7.176	3.132	0.436	1.475	6.182	4.190
Bass Harbour	21-May-89	300	10.5	0	1	15	188	KW	8.970	4,435	0.494	1.844	8.564	4.644

Appendix J. RNA/DNA ratios of herring larvae collected from Prince William Sound, 1989.

Location	Date of capture	Vial no.	Fish length (mm)	Yolk sac	Cohort no,	Age (d)	Dry weight (ug)	Method of analysis	Nucleic acid concentration (ug/fish) DNA	RNA	RNA/DNA	Accuracy-corrected concentration (ug/fish) DNA	RNA	RNA/DNA
Bass Harbour	21-May-89	294	11,0	0	1	15	201	Kw	2.880	2.479	0,661	0.592	4.673	7.892
Bass Harbour	21-May-89	312	11,0	0	1	15	201	Kw	1.920	3.600	1.875	0.395	6.786	17.191
Bass Harbour	29-May-89	374	11.5	0	1	23	217	KW	8.694	8.059	0.927	1,767	14.794	8.277
Bass Harbour	29-May-89	381	12,0	0	1	23	236	KW	12.096	5.686	0.470	2.467	10.147	4.080
Bass Harbour	29-May-89	378	12.5	0	1	23	257	KW	6.442	6.162	0.730	1.736	10.656	6.140
Bass Harbour	29-May-89	376	12.5	0	1	23	257	KW	11.088	4.265	0.385	2.280	7.376	3.236
Bass Harbour	29-May-89	368	13.0	0	1	23	263	KW	10.332	5.453	0.528	2.124	9.124	4.295
Bass Harbour	29-May-69	377	13.0	0	1	23	263	KW	9.828	6.162	0.627	2.021	10.309	5.102
Bass Harbour	29-May-89	306	14.0	0	1	23	348	KW	15.120	10,666	0.706	3.109	16.602	5.341
Basa Harbour	29-May-89	373	16.0	0	1	23	555	Kw	15.676	21.330	1.344	3.264	28.171	8,630
Bass Harbour	29-May-69	360	17.0	0	1	23	713	Kw	21.924	20.621	0.941	4,506	24.929	5.530
Bass Harbour	29-May-89	363	16.0	0	1	23	1323	KW	14.364	15.641	1.089	2.953	17.276	5.850
Bass Harbour	8-Jun-89	460	8.0	0	2	6	147	Kw	6,642	3.876	0.564	1.366	8.169	5.962
Bass Harbour	8-Jun-89	462	0.5	0	2	6	152	KW	4.062	1.624	0,449	0.835	3.793	4.541
Bass Harbour	8-Jun-89	461	16.5	0	1	33	628	KW	10.690	13.620	1.251	2.239	17,216	7.669
Bass Harbour	13-Jun-89	501	16.0	0	1	38	923	Kw	15.612	21.780	1.395	3.210	24.056	7,495
Bass Harbour	13-Jun-69	503	19.0	0	1	36	1193	Kw	17.064	10.216	0,599	3.508	10,311	2,939
Bass Harbour	13-Jun-89	502	21.5	0	1	38	2209	KW	17.064	23.638	1.397	3.508	19,377	5.523
Bass Harbour	21 -Jun-89	532	12,0	0	1	46	236	KW	5.904	10.488	1.776	1.214	16.709	15.413
Bass Harbour	21-Jun-89	533	16.0	0	1	46	555	KW	14.022	12.582	0.697	2.663	16.618	5.764
Bass Harbour	21 -Jun-89	531	20,0	0	1	46	1536	KW	36.316	102.180	2.667	7.678	94.348	11.876
Fairmount Island	2-May-89	5 0	6.5	1	2	-1	157	KW	3.024	1.920	0.635	0.622	3.952	6.356
Fairmount Island	2-May-89	53	6.5	1	2	-1	157	c	0.596	2.350	3.943	0.596	2.350	3.943
Fairmount Island	2-May-69	43	7.0	1	2	-1	160	KW	3.906	3.600	0.922	0.803	7,356	9.160
Fairmount Island	2-May-89	5 1	7.0	1	2	-1	160	KW	2.772	1.920	0.693	0.570	3.924	6.685
Fairmount Island	2-May-69	35	7.0	1	2	-1	160	KW	1.890	1.920	1,016	0.389	3.924	10.096
Fairmount island	2-May-89	52	7.4	1	2	-1	163	C	0.468	2.723	5.818	0.468	2.723	5.618
Fairmount Island	2-May-89	3 9	7.5	1	2	-1	164	KW	4.032	1.441	0.357	0.829	2,920	3.522
Fairmount Island	2-May-89	42	7.5	0	2	-1	142	KW	3.150	1.680	0.533	0.648	3.580	5.528
Fairmount island	2-May-89	3 1	8.0	0	2	-1	147	KW	2.142	1.680	0.784	0,440	3.540	8.037
Fairmount Island	2-May-89	60	9.0	0	2	-1	159	KW	5.796	5.041	0.870	1.192	10,324	8.663
Fairmount Island	2-May-89	44	9.0	0	2	-1	159	KW	4.536	1.680	0.370	0.933	3.440	3<689

Appendix J, RNA/DNA ratios of herring larvae collected from Prince William Sound, 1989.

Location	Date of capture	Vial no.	Fish length (mm)	Yolk sac	Cohort no.	Age (d)	Dry weight (ug)	Method of analysis	Nucleic acid concentration (ug/fish) DNA	RNA	RNA/DNA	Accuracy-corrected concentration (ug/fish) DNA	RNA	RNA/DNA
Fain-noun! Island	2-May-89	40	9.0	0	2	-1	159	KW	4,158	2.641	0.635	0.855	5,409	6.327
Fairmount Island	1 l-May-89	219	7,0	1	2	8	160	KW	2.706	3.930	1.452	0.556	8.030	14.433
Fairmount Island	11-May-89	218	8.0	1	2	8	169	KW	4.308	2.544	0.591	0.886	5.104	5.763
Fairmount Island	1 l-May-89	221	8.0	1	2	8	169	KW	2.632	5,779	2,041	0.562	11.595	19.914
Fairmount Island	11-May-89	194	8.5	0	2	8	152	KW	3.444	3.466	1.007	0.706	7.212	10,185
Fairmount Island	11-May-89	206	8.5	0	2	8	152	KW	4.800	4.391	0.915	0.987	9.132	9.254
Fairmount Island	11-May-89	220	9.0	0	2	8	159	KW	5.538	2.544	0,459	1.139	5.210	4.578
Fairmount Island	11-May-89	207	9.0	0	2	8	159	KW	3.690	2.771	0,751	0.759	5.675	7.461
Fairmount Island	11 -May-89	212	9.0	0	2	8	159	KW	4.062	3.466	0,854	0.835	7.102	8.504
Fairmount Hand	1 l-May-89	204	9.0	0	2	8	159	KW	5.412	3.468	0.641	1.113	7.102	6,383
Fairmount Island	11-May-89	210	10.0	0	2	8	177	KW	3.570	3,930	1.101	0.734	7.756	10.567
Fairmount Island	21-May-89	325	8.0	0	2	18	147	KW	4.920	1.638	0,333	1.012	3,452	3.413
Fairmount Island	21-May-89	328	9.5	0	2	18	167	KW	5.166	1.603	0.310	1.062	3.226	3.037
Fairmount Island	21-May-89	318	9.5	0	2	18	167	KW	5.904	3,979	0.674	1.214	8.009	6.596
Fairmount Island	21-May-89	321	10.0	0	2	18	177	KW	7.380	3.509	0.476	1.517	6.926	4.565
Fairmount Island	21-May-89	327	10.0	0	2	18	177	K-w	5.764	1.871	0.323	1.169	3.693	3.105
Fairmount Island	21-May-89	313	10.0	0	2	18	177	KW	10.458	6.318	0,604	2.150	12.470	5,799
Fairmount Island	21-May-89	323	11,0	0	2	18	201	KW	4.920	8.424	1.712	1.012	15.879	15.698
Fairmount Island	21-May-89	341	11.0	0	2	18	201	KW	9.228	2.341	0.254	1.697	4.413	2.326
Fairmount Island	21-May-89	319	12.0	0	2	18	236	KW	9.102	6.553	0.720	1.871	11.689	6.246
Fairmount Island	21-May-89	331	14.0	0	2	18	340	KW	13.038	10.764	0.826	2.661	16.753	6.250
Fairmount Island	29-May-89	364	8.5	0	3	4	152	KW	3.228	2.191	0.679	0.664	4.556	6.865
Fairmount Island	29-May-89	357	9.0	0	3	4	159	KW	3,486	0.971	0.279	0.717	1.969	2.775
Fairmount Island	29-May-89	349	9.0	0	3	4	159	KW	4.644	3.886	0.837	0.955	7,963	8.340
Fairmount Island	29-May-89	356	9.5	0	2	26	167	KW	0,774	0.241	0.311	0.159	0.485	3.046
Fairmount Island	29-May-89	372	9.5	0	2	26	167	KW	3.354	0.971	0.290	0.690	1.955	2.834
Fairmount Island	29-May-89	352	9,5	0	2	26	167	KW	3.354	3.403	1.014	0.690	6.849	9.932
Fairmount Island	29-May-89	344	10.0	0	2	26	177	KW	4.128	1.680	0.407	0.849	3.315	3,906
Fairmount Island	29-May-89	350	10.0	0	2	26	177	KW	2.970	1.200	0.404	0.611	2.369	3.879
Fairmount Island	29-May-89	371	10.0	0	2	26	177	KW	3.486	3,888	1.115	0,717	7,674	10.707
Fairmount Island	29-May-89	369	10.0	0	2	26	177	KW	1.422	0.959	0.675	0.292	1.893	6.476
Fairmount Island	29-May-89	346	11.0	0	2	26	201	KW	6.840	3,359	0,491	1.406	6.332	4.503

Appendix J. RNA/DNA ratios of herring larvae collected from Prince William Sound, 1989.

Location	Date of capture	Fish Vial no.	Fish length (mm)	Yoik sac	Cohort no.	Age (d)	Dry weight (ug)	Method of analysis	Nucleic acid concentration (ug/fish) DNA	Nucleic acid concentration (ug/fish) RNA	RNA/DNA	Accuracy-corrected concentration (ug/fish) DNA	Accuracy-corrected concentration (ug/fish) RNA	Accuracy-corrected concentration (ug/fish) RNA/DNA
Fairmount Island	29-May-89	368	11.0	0	2	26	201	KW	0.906	2.641	2.915	0.186	4.978	26.725
Fairmount Island	29-May-89	358	11.0	0	2	26	201	KW	4.062	2.430	0.598	0,835	4.580	5.464
Fairmount Island	29-May-69	370	11.5	0	2	26	217	KW	2.970	3.600	1.212	0.611	6,609	10.823
Fairmount Island	29-May-89	365	11.5	0	2	26	217	KW	5.676	3.403	0.599	1.167	6.247	5.353
Fairmount Island	29-May-89	363	12.0	0	2	26	236	KW	4.260	1.944	0.456	0.876	3.468	3,960
Fairmount island	29-May-89	354	12.5	0	2	26	257	KW	1.032	0.959	0.929	0.212	1.659	7.818
Fairmount Island	29-May-89	362	15.0	0	2	26	436	KW	8.772	9.359	1.067	1.604	13.455	7.480
Fairmount Island	29-May-89	351	15.0	0	2	26	436	KW	4.386	3.120	0.711	0.902	4.486	4.975
Fairmount island	29-May-89	366	15,0	0	2	26	436	KW	13.032	11.664	0.895	2.679	16.769	6.256
Fairmount island	7-Jun-89	440	7.5	0	3	13	142	KW	5,046	0.665	0.136	1.037	1.460	1.407
Fairmount Island	7-Jun-89	446	8.5	0	3	13	152	KW	3.816	0.456	0.119	0.785	0.948	1.208
Fairmount Island	7-Jun-89	444	9.0	0	3	13	159	KW	5.656	1.356	0.240	1.163	2.777	2.387
Fairmount Island	7-Jun-89	443	9.0	0	3	13	159	KW	2.706	1.141	0,422	0,556	2.336	4.200
Fairmount Island	7-Jun-89	445	9.5	0	3	13	167	KW	4.182	1.721	0.412	0.860	3.464	4.029
Fairmount Island	7-Jun-89	449	10.0	0	3	13	177	KW	5.412	3.420	0.632	1.113	6.751	6.067
Fairmount Island	7-Jun-89	441	10.5	0	3	13	1138	KW	5.784	1.368	0.236	1.169	2.641	2.221
Fairmount Island	7-Jun-89	448	10.5	0	3	13	188	KW	4.920	3.191	0.649	1.012	6.163	6.093
Fairmount Island	7-Jun-89	442	12.0	0	2	35	236	KW	4.554	2.509	0.551	0.936	4.475	4,779
Fairmount Island	7-Jun-89	447	13.5	0	2	35	313	KW	9.348	5.929	0.634	1.922	9,576	4.883
Fairmount Island	13-Jun-89	511	9.5	0	3	19	167	KW	5.538	1.638	0.296	1.139	3.297	2.896
Fairmount island	13-Jun-89	507	11.5	0	3	19	217	KW	9,594	6.786	0.707	1.873	12,457	6.315
Fairmount Island	13-Jun-89	510	12.0	0	3	19	236	KW	6.030	1.638	0.272	1.240	2.922	2.357
Fairmount Island	13-Jun-89	515	12.5	0	3	19	257	KW	6.396	3.744	0.585	1.315	6.475	4.924
Fairmount Island	13-Jun-89	526	13.0	0	3	19	263	KW	6.642	6.424	1.268	1.366	14.093	10.320
Fairmount island	13-Jun-89	508	13.0	0	3	19	263	KW	5.952	2.809	0.472	1.224	4.699	3.840
Fairmount Island	13-Jun-89	517	14,5	0	2	41	388	KW	9.348	3.744	0.401	1.922	5.605	2.916
Fairmount island	13-Jun-89	516	16.0	0	2	41	555	KW	8.556	14.041	1.641	1.759	18.544	10.542
Fairmount Island	13-Jun-89	504	16.0	0	2	41	555	KW	20.088	16.147	0.804	4.130	21.325	5.163
Fairmount Island	13-Jun-89	513	17.0	0	2	41	713	KW	17.484	23.666	1.365	3.595	28,854	8,027
Fairmount Island	13-Jun-89	522	17.0	0	2	41	713	KW	16.740	18.953	1.132	3.442	22.913	6.657
Fairmount Island	13-Jun-89	525	17.0	0	2	41	713	K-W	5.412	7.721	1.427	1.113	9,334	8.389
Fairmount Island	13-Jun-89	514	17,5	0	2	41	811	KW	12.546	3.276	0.261	2.579	3.786	1.468

Appendix J. RNA/DNA ratios of herring larvae collected from Prince William Sound, 1989.

Location	Date of capture	Vial no.	Fish length (mm)	Yoik sac no,	Cohort (d)	Dry Age (ug)	Method weight analysis	Nucleic acid concentration (ug/fish) DNA	RNA	RNA/DNA	Accuracy-corrected concentration (ug/fish) DNA	RNA	RNA/DNA
Fairmount Island	13-Jun-89	509	17.5	0	2 41	811	KW	18.228	23.868	1.309	3.748	27.563	7.360
Fairmount island	13-Jun-89	523	17.5	0	2 41	811	KW	17.484	18.253	1.044	3.595	21.094	5.868
Fairmount Island	13-Jun-89	505	18.0	0	2 41	923	KW	20,460	23.165	1.132	4.207	25.587	6.083
Fairmount Island	13-Jun-89	519	19.0	0	2 41	1193	KW	23.436	22.464	0.959	4.818	22.669	4.705
Fairmount Island	13-Jun-89	516	19.0	0	2 41	1193	Kw	26.412	29.485	1.116	5.430	29.753	5.479
Fairmount Island	13-Jun-89	512	19.5	0	2 41	1355	Kw	24.180	37.909	1.568	4.971	36.582	7.358
Fairmount Island	13-Jun-89	506	19.5	0	2 41	1355	Kw	33,108	40.715	1.230	6.807	39.290	5,772
Fairmount island	22-Jun-89	549	15.0	0	3 28	436	KW	10.164	10,956	1.078	2.090	15.750	7.537
Fairmount Island	22-Jun-89	544	16.5	0	3 28	628	KW	13.992	17,430	1.246	2.877	22,031	7.658
Fairmount Island	22-Jun-89	537	18.5	0	2 50	1049	Kw	22.462	24.480	1.089	4.622	25.842	5.591
Fairmount island	22-Jun-89	543	19,0	0	2 50	1193	KW	26.292	25.200	0.958	5.406	25.429	4.704
Fairmount Island	22-Jun-89	536	19.0	0	2 50	1193	Kw	20.574	20,159	0.980	4.230	20.343	4.809
Fairmount island	22-Jun-89	548	19.5	0	2 50	1355	Kw	16.632	26.891	1.617	3.420	25.950	7.589
Fairmount Island	22-Jun-89	541	20.5	0	2 50	1739	Kw	25.530	41.041	1.608	5.249	36.286	6.913
Fairmount Island	22-Jun-89	550	21,0	0	2 50	1962	KW	20.196	33.616	1.665	4,152	28.485	6.860
Fairmount island	22-Jun-89	535	21,0	0	2 50	1962	KW	23.244	37.441	1.611	4.779	31,725	6.638
Fairmount Island	22-Jun-89	540	21.5	0	2 50	2209	KW	27.816	33.841	1.217	5.719	27.507	4.810
Fairmount Island	22-Jun-89	53r3	22.0	0	2 50	2478	KW	25.908	47.520	1.834	5.327	37,096	6.964
Fairmount Island	22-Jun-89	534	22.0	0	2 50	2478	KW	23.244	33,120	1.425	4.778	25,855	5.410
Fairmount island	22-Jun-89	542	22.0	0	2 50	2478	KW	28.956	40,320	1.392	5.953	31.475	5.287
Fairmount Island	22-Jun-89	539	23,0	0	2 50	3089	KW	28.956	60,460	2.089	5.953	43.699	7.340
Rocky Bay	3-May-89	97	5.5	1	2 - 4	152	KW	2.898	1.920	0.663	0.596	3.993	6,701
Rocky Bay	3-May-89	101	6.0	1	2 - 4	154	KW	3.402	1.680	0,494	0.699	3.476	4.969
Rocky Bay	3-May-89	100	6,0	1	2 -4	154	KW	3.150	1.680	0.533	0.648	3.476	5.367
Rocky Bay	3-May-89	93	6.0	1	2 - 4	154	KW	1.638	1.680	1.025	0.337	3,476	t 0.321
Rocky Bay	3-May-89	102	6.0	0	2 - 4	132	KW	3.528	1.680	0.476	0,725	3.669	5.058
Rocky Bay	3-May-89	98	6.0	1	2 - 4	154	K-W	3.906	3.359	0.860	0,803	8.952	8.656
Rocky Bay	3-May-89	96	6.5	1	2 - 4	157	Kw	2.394	1.920	0.802	0.492	3.952	6.028
Rocky Bay	3-May-89	99	6.5	1	2 -4	157	Kw	2.394	2.159	0.902	0.492	4.443	9.027
Rocky Bay	3-May-89	95	6.5	1	2 - 4	157	KW	3.654	1.441	0.394	0.751	2.965	3.946
Rocky Bay	3-May-89	94	9.0	0	2 -4	159	KW	5.418	1,441	0.266	1.114	2.951	2.649
Rocky Bay	12-May-69	149	6.5	1	2 5	157	KW	3.744	1.680	0.449	0.770	3.456	4.490

Appendix J. RNA/DNA ratios of herring larvae collected from Prince William Sound, 1989.

Location	Date of capture	Vial no,	Fish length (mm)	Yolk sac	Cohort no,	(d)	Dry Age (ug)	Method weight of analysis	Nucleic acid concentration (ug/fish) DNA	RNA	RNA/DNA	Accuracy-corrected concentration (ug/fish) DNA	RNA	RNA/DNA
Rocky Bay	12-May-69	146	6<5	1	2	5	157	Kw	5.034	0,241	0.048	1.035	0.495	0.479
Rocky Bay	12-May-69	153	7.0	1	2	5	160	KW	4.128	2.159	0.523	0,849	4.412	5,199
Rocky Bay	12-May-69	157	7.5	1	2	5	164	KW	5.418	0.241	0.044	1.114	0.488	0.438
Rocky Bay	12-May-69	137	7.5	1	2	5	164	KW	6.708	1.200	0.179	1.379	2.432	1.783
Rocky Bay	12-May-89	155	8.0	1	2	5	169	KW	5.676	1.200	0.211	1.167	2.408	2.063
Rocky Bay	12-May-89	161	8.0	1	2	5	169	KW	5.676	0.480	0.084	1.167	0.962	0.825
Rocky Bay	12-May-69	158	8.0	1	2	5	169	KW	5.292	1.200	0.227	1,068	2.408	2.213
Rocky Bay	12-May-69	146	8.0	1	2	5	169	KW	5.292	3.600	0.680	1.086	7.223	6,639
Rocky Bay	12-May-89	150	8.0	1	2	5	169	KW	1.056	1.991	1.886	0.217	3.996	18.404
Rocky Bay	12-May-89	162	8.0	1	2	5	169	KW	6.708	1.680	0.250	1.379	3.370	2.443
Rocky Bay	12-May-69	143	8.5	1	2	5	174	K-W	1.452	3.865	2.744	0.299	7.903	26.474
Rocky Bay	12-May-69	156	9.0	1	2	5	181	KW	1.188	1,494	1.258	0.244	2.924	11.970
Rocky Bay	12-May-69	145	9.0	1	2	5	181	KW	2.376	4,482	1.686	0,489	8.771	17.956
Rocky Bay	21-May-69	267	7.5	0	2	14	142	KW	2.454	3.359	1.369	0,505	7.160	14.192
Rocky Bay	21-May-69	280	7.5	1	2	14	164	KW	4.284	3.120	0,728	0.881	6.323	7.179
Rocky f3ay	21-May-69	279	8.0	0	2	14	147	Kw	3.486	1.680	0.462	0.717	3.540	4.939
Rocky Bay	21-May-89	268	8.0	0	2	14	147	KW	5.544	5.520	0.996	1.140	11.634	10.206
Rocky Bay	21-May-89	276	8.5	0	2	14	152	KW	2.970	1.441	0.465	0.611	2.996	4.907
Rocky Bay	21-May-89	261	8.5	0	2	14	152	KW	3.870	2.880	0.744	0,796	5,966	7,526
Rocky Bay	21-May-69	261	8.5	0	2	14	152	KW	3.096	2.400	0.775	0.637	4.991	7.841
Rocky Bay	21 -May-89	259	9.0	0	2	14	159	KW	6.804	3,120	0.459	1.399	6.391	4.568
Rocky Bay	21-May-69	270	9,0	0	2	14	159	Kw	6.678	1.200	0.180	1.373	2.458	1.790
Rocky Bay	21-May-69	264	9.0	0	2	14	159	KW	4.644	4.080	0.876	0.955	8.355	8,751
Rocky Bay	21-May-69	278	9.0	0	2	14	159	Kw	6.678	2.159	0.323	1.373	4.422	3.221
Rocky Bay	21 -May-89	277	9.0	0	2	14	159	KW	4.002	3.120	0.760	0.823	6.391	7.767
Rocky Bay	21-May-69	255	9,0	0	2	14	159	KW	6.324	2.159	0.341	1.300	4.422	3.401
Rocky Bay	21-May-69	260	9.5	0	2	14	167	KW	6.804	2.880	0.423	1,399	5.796	4.143
Rocky Bay	21-May-69	254	9.5	0	2	14	167	KW	16.644	4,559	0.274	3.422	9.177	2.682
Rocky Bay	21-May-69	271	9.5	0	2	14	167	KW	6.804	3.359	0.494	1.399	6.761	4.833
Rocky Bay	21-May-69	272	10.0	0	2	14	177	KW	6,192	0,959	0.155	1.273	1.893	1.487
Rocky Bay	21-May-69	275	10.0	0	2	14	177	KW	6.048	4.559	0.754	1.243	8.999	7.237
Rocky Bay	21-May-69	274	10.5	0	2	14	188	KW	7,812	3,120	0.399	1.606	6.026	3.752

Appendix J. RNA/DNA ratios of herring larvae collected from Prince William Sound, 1989.

Location	Date of capture	Vial no.	Fish length (mm)	Yolk sac	Cohort no.	Age (d)	Dry weight (ug)	Method of analysis	Nucleic acid concentration (ug/fish) DNA	RNA	RNA/DNA	Accuracy-corrected concentration (ug/fish) DNA	RNA	RNA/DNA
Rocky Bay	21-May-89	262	11.0	0	2	14	201	KW	6.048	3.359	0.555	1.243	6.332	5.092
Rocky Bay	30-May-89	392	7.0	0	3	2	138	KW	3.444	3.235	0.939	0.708	6.962	9.833
Rocky Bay	30-May-89	394	8.0	0	3	2	147	K-w	3.324	2.771	0.834	0,683	5.840	8.545
Rocky Bay	30-May-69	393	9.0	0	3	2	159	KW	4.306	2.771	0.643	0.886	5.675	6.408
Rocky Bay	30-May-89	397	loco	0	2	23	177	KW	5.412	1.647	0.341	1.113	3.646	3.277
Rocky Bay	30-May-89	398	11.0	0	2	23	201	KW	5.166	1.847	0.358	1.062	3.482	3,279
Rocky Bay	30-May-89	396	11.0	0	2	23	201	KW	8.364	5.315	0.835	1.720	10.019	5.826
Rocky Bay	30-May-69	395	12.0	0	2	23	236	KW	5.412	6,468	1.195	1.113	11.536	10.369
Rocky Bay	7-Jun-89	452	8.5	0	3	10	152	KW	3.654	0.241	0.066	0.751	0,501	0,667
Rocky Bay	7-Jun-89	459	14.0	0	2	31	348	KW	10.332	18.253	1.767	2.124	28.406	13.372
Rocky Bay	7-Jun-89	451	14.5	0	2	31	388	KW	9.576	9.480	0.990	1.969	14.190	7.208
Rocky Bay	7-Jun-89	456	15.0	0	2	31	436	KW	12.726	9.006	0.708	2.616	12.947	4.948
Rocky Bay	7-Jun-89	457	15.0	0	2	31	436	KW	15.876	4.032	0.254	3.264	5.797	1.776
Rocky Bay	7-Jun-89	453	15.0	0	2	31	436	KW	10.584	2.644	0.269	2.176	4.089	1.879
Rocky Bay	7-Jun-89	458	15.0	0	2	31	436	KW	17.010	9.006	0.529	3.497	12.947	3.702
Rocky Bay	7-Jun-89	450	15.0	0	2	31	436	KW	12.348	8.532	0.691	2,539	12.266	4.831
Rocky Bay	7-Jun-89	454	16.0	0	2	31	555	KW	10.584	9.480	0.896	2.176	12.520	5.753
Rocky Bay	7-Jun-89	455	16.0	0	2	31	555	KW	15.876	12.797	0.806	3.264	16.902	5.178
Rocky Bay	12-Jun-89	500	9.0	0	3	15	159	KW	3.936	1.368	0,346	0.809	2.801	3,462
Tatitlek Narrows	2-May-89	1	6.2	1	1	-1	155	C	0.585	1.360	2.325	0.585	1.360	2.325
Tatitlek Narrows	2-May-89	1 6	7,0	1	1	-1	180	C	0.460	3.160	6.870	0,460	3.160	6.870
Tatitlek Narrows	2-May-89	1 0	7.2	1	1	-1	161	G	0.560	3.950	7.054	0.560	3.950	7.054
Tatitlek Narrows	2-May-69	3	7.2	1	1	-1	161	C	0.695	2.365	3.403	0.695	2.365	3.403
Tatitlek Narrows	2-May-69	24	7,2	1	1	-1	161	C	0,510	4,340	8.510	0.510	4.340	8.510
Tatitlek Narrows	2-May-69	22	7.3	1	1	-1	162	C	0.320	3.635	11.359	0.320	3,635	11.359
Tatitlek Narrows	2-May-89	1 4	7.4	1	1	-1	163	C	0.820	4.580	5.585	0.820	4.560	5.585
Tatitlek Narrows	2-May-69	29	7.5	1	1	-1	164	C	0.385	4.465	12.233	0,365	4.465	12.233
Tatitlek Narrows	2-May-89	2 6	7.5	1	1	-1	164	KW	3.816	0.235	0.062	0.785	0,476	0,607
Tatitlek Narrows	2-May-89	18	7.5	1	1	-1	164	KW	4.308	0.235	0.055	0.886	0.476	0.537
Tatitlek Narrows	2-May-89	8	7.5	1	1	-1	164	C	0.335	3.640	11.463	0.335	3.840	11.463
Tatitlek Narrows	2-May-69	9	7.7	1	1	-1	186	c	0.305	2.260	7.475	0.305	2.280	7.475
Tatitlek Narrows	2-May-89	17	7.8	1	1	-1	167	C	0.515	3.845	7.466	0.515	3.845	7,466

Appendix J. RNA/DNA ratios of herring larvae collected from Prince William Sound, 1989.

Location	Date of capture	Vial no.	Fish length (mm)	Yolk sac	Cohort no.	Age (d)	Dry weight (ug)	Method of analysis	Nucleic. acid concentration (ug/fish) DNA	RNA	RNA/DNA	Accuracy-corrected concentration (ug/fish) DNA	RNA	RNA/DNA
Tatitlek Narrows	2-May-69	7	7.8	1	1	-1	167	C	0.715	2,275	3,182	0.715	2.275	3.182
Tatitlek Narrows	2-May-89	23	8.0	1	1	-1	169	KW	4.062	0<468	0.115	0.835	0.939	1.124
Tatitlek Narrows	2-May-69	11	8.0	1	1	-1	169	KW	3.570	0,468	0.131	0.734	0.939	1.279
Tatitlek Narrows	2-May-89	27	8.0	1	1	-1	169	KW	2,178	1.170	0.537	0.448	2.348	5.244
Tatitlek Narrows	2-May-69	20	8.0	1	1	-1	169	KW	3,570	3.041	0.852	0.734	6.102	8.314
Tatitlek Narrows	2-May-69	19	8.0	1	1	-1	169	KW	3.690	0.703	0.190	0.759	1.410	1.858
Tatitlek Narrows	2-May-69	15	8.0	1	1	-1	169	KW	5.538	2,809	0,507	1.139	5.635	4.949
Tatitlek Narrows	2-May-89	2	8.1	1	1	-1	169	C	0.370	5,395	14.581	0,370	5.395	14.581
Tatitlek Narrows	2-May-89	5	8.2	1	1	-1	171	C	0.355	6.855	19,310	0.355	6.855	19.310
Tatitlek Narrows	2-May-69	12	8.2	1	1	-1	171	C	0.715	3,735	5.224	0.715	3.735	5.224
Tatitlek Narrows	2-May-89	20	8.5	1	1	-1	174	KW	4.062	0.936	0.230	0,835	1.855	2.222
Tatitlek Narrows	2-May-89	30	8.5	1	1	-1	174	KW	5,046	0,703	0.139	1.037	1.394	1.343
Tatitlek Narrows	2-May-89	25	8.7	0	1	-1	154	C	0.860	5,345	6.215	0.860	5.345	6.215
Tatitlek Narrows	2-May-69	13	8.8	1	1	-1	178	C	0.620	3,820	6,161	0.620	3,820	6.161
Tatitlek Narrows	11-May-69	107	7.0	1	1	8	160	KW	3.036	0.491	0,162	0.624	1.004	1.609
Tatitlek Narrows	11-May-69	131	7.0	1	1	8	160	KW	2.508	1.230	0,490	0.516	2.513	4.873
Tatitlek Narrows	11-May-69	109	7.5	0	1	8	142	G	1.180	3.665	3.106	1.180	3.665	3.106
Tatitlek Narrows	11-May-89	115	7.5	0	1	8	142	G	0.520	5.325	10,240	0.520	5.325	10.240
Tatitlek Narrows	11-May-89	113	7.5	1	1	8	164	BDM	1.212	2.424	2.000	0.849	3,699	4.355
Tatitlek Narrows	11-May-89	124	7.5	0	1	8	142	BDM	0.516	4.854	9,407	0.362	7.358	20.344
Tatitlek Narrows	11-May-89	119	7.6	1	1	8	165	C	0.400	5,795	14.468	0,400	5,795	14.488
Tatitlek Narrows	11-May-69	124	7.8	1	1	8	167	G	0.935	2.130	2.278	0.935	2.130	2.278
Tatitlek Narrows	11-May-89	114	8.0	0	1	8	147	BDM	1.038	3.234	3.116	0,728	4,910	8.748
Tatitlek Narrows	11-May-89	132	8.0	0	1	8	147	KW	4.224	2.214	0.524	0.888	4.667	5.374
Tatitlek Narrows	11-May-69	130	8.0	1	1	8	169	KW	1.320	2,459	1.663	0.271	4.934	18.181
Tatitlek Narrows	11-May-89	118	8.1	0	1	8	147	c	0.510	4.605	9.029	0.510	4.605	9,029
Tatitlek Narrows	11-May-69	105	8.5	0	1	8	152	BDM	1.038	2.424	2,335	0,728	3.667	5.067
Tatitlek Narrows	11-May-89	121	8.5	0	1	8	152	BDM	0.864	3,234	3,743	0.606	4,916	8.122
Tatitlek Narrows	11-May-69	108	8.5	0	1	8	152	KW	4,684	1.968	0.403	1.004	4.092	4.075
Tatitlek Narrows	11-May-89	128	8.5	0	1	8	152	KW	5.016	1.968	0,392	1.031	4.092	3<968
Tatitlek Narrows	11-May-89	112	8.5	0	1	8	153	c	1.090	4.495	4.124	1.090	4.495	4.124
Tatitlek Narrows	11-May-69	125	8.7	0	1	8	154	G	0.800	6.650	8.313	0,800	6.650	8.313

Appendix J. RNA/DNA ratios of herring larvae collected from Prince William Sound, 1989.

Location	Dale of capture	Vial no.	Fish length (mm)	Yolk sac	Cohort no.	Age (d)	Dry weight (ug)	Method of analysis	Nucleic acid concentration (ug/fish) DNA	RNA	RNA/DNA	Accuracy-corrected concentration (ug/fish) DNA	RNA	RNA/DNA
Tatitlek Narrows	11-May-89	122	8.7	0	1	8	154	c	0.895	5.645	6.307	0.695	5.645	6.307
Tatitlek Narrows	1 l-May-69	120	9,0	0	1	8	159	KW	4.884	2.459	0.504	1.004	5.037	5.016
Tatitlek Narrows	11 -May-89	127	9.0	0	1	8	159	BDM	0.516	2.424	4.696	0.362	3.694	10.214
Tatitlek Narrows	11-May-69	104	9.0	0	1	8	159	KW	4.224	2.706	0,641	0.868	5.542	6,381
Tatitlek Narrows	11-May-69	117	9.5	0	1	8	167	C	0.765	7.285	9.280	0.785	7.285	9.280
Tatitlek Narrows	1 1-May-89	110	10.0	0	1	8	176	C	0.785	6.705	8.541	0.785	6.705	8.541
Tatitlek Narrows	11-May-69	116	10.0	0	1	6	177	KW	5.016	2.459	0.490	1.031	4.854	4.707
Tatitlek Narrows	1 l-May-69	123	10.0	0	1	8	177	BDM	1.038	4.654	4.676	0.728	7.434	10.218
Tatitlek Narrows	11-May-69	103	10.0	0	1	6	177	BDM	0.516	4.044	7.837	0.362	6.193	17.125
Tatitlek Narrows	1 l-May-69	106	10.0	0	1	8	177	BDM	1.212	4.044	3.337	0.849	6.193	7.291
Tatitlek Narrows	11-May-69	111	10.2	0	1	8	181	C	0,770	4.020	5.221	0.770	4.020	5.221
Tatitlek Narrows	11-May-69	129	10.5	0	1	6	188	KW	3.960	2.706	0.683	0.814	5.225	6.418
Tatitlek Narrows	20-May-69	231	8.0	0	1	17	147	KW	7.392	2.741	0.371	1.520	5.777	3,801
Tatitlek Narrows	20-May-69	251	8.4	0	1	17	151	c	1.560	6.430	4.122	1.560	6.430	4.122
Tatitlek Narrows	20-May-69		8.7	0	1	17	154	c	1.540	13.555	8.802	1.540	13.555	8.802
Tatitlek Narrows	20-May-69	239	9.5	0	1	17	167	BDM	1.554	6,468	4,162	1.089	9.880	9.071
Tatitlek Narrows	20-May-69	232	9.9	0	1	17	174	c	1.360	7.805	5.656	1.380	7.805	5.656
Tatitlek Narrows	20-May-69	223	10.0	0	1	17	177	KW	10.164	4.735	0.466	2.090	9.345	4.472
Tatitlek Narrows	20-May-69	234	10.4	0	1	17	187	C	1.490	6.335	5.594	1.490	8.335	5.594
Tatitlek Narrows	20-May-69		10.5	0	1	17	166	KW	9.900	4.236	0.428	2.035	8.179	4.018
Tatitlek Narrows	20-May-69	226	10.5	0	1	17	188	KW	12.276	4.297	0,350	2.524	8.297	3.266
Tatitlek Narrows	20-May-89	229	10.6	0	1	17	190	c	1.045	15.295	14.636	1.045	15.295	14.636
Tatitlek Narrows	20-May-69	238	10.9	0	1	17	199	c	1.090	10.105	9.271	1.090	10.105	9.271
Tatitlek Narrows	20-May-69	241	11.0	0	1	17	201	KW	11.352	6.474	0.570	2.334	12,203	5.229
Tatitlek Narrows	20-May-69	248	11.0	0	1	17	201	KW	9.766	1.494	0.153	2.008	2.816	1.402
Tatitlek Narrows	20-May-89	235	11.0	0	1	17	203	C	1.950	11.505	5.900	1.950	11.505	5.900
Tatitlek Narrows	20-May-69	233	11.0	0	1	17	203	C	2.140	8.170	3.818	2.140	8.170	3,818
Tatitlek Narrows	20-May-69	252	11,3	0	1	17	210	c	1.750	10.470	5.983	1.750	10.470	5.983
Tatitlek Narrows	20-May-69	247	11.4	0	1	17	214	C	1.870	12.440	6,652	1.870	12.440	6.652
Tatitlek Narrows	20-May-89	237	11.5	0	1	17	217	KW	11.220	2.741	0.244	2.307	5.033	2.182
Tatitlek Narrows	20-May-69	245	11.5	0	1	17	217	BDM	1.368	11.334	8.285	0.959	17.527	18.279
Tatitlek Narrows	20-May-69	225	11.5	0	1	17	217	BDM	1.212	6.468	5.337	0.849	10.002	11.774

Appendix J. RNA/DNA ratios of herring larvae collected from Prince William Sound, 1989.

Location	Date of capture	Vial no.	Fish length (mm)	Yolk sac	Cohort no,	Age (d)	Dry weight (ug)	Method of analysis	Nucleic acid concentration (ug/fish) DNA	RNA	RNA/DNA	Accuracy-corrected concentration (ug/fish) DNA	RNA	RNA/DNA
Tatitlek Narrows	20-May-69	224	11.5	0	1	17	217	BDM	1.542	4.050	2.628	1.081	6.263	5.795
Tatitlek Narrows	20-May-89	250	12.0	0	1	17	236	KW	10.032	3,985	0.397	2.063	7.108	3.446
Tatitlek Narrows	20-May-89	246	12.0	0	1	17	236	BDM	1.902	4.854	2.552	1,333	7.535	5.652
Tatitlek Narrows	20-May-89	249	12.0	0	1	17	236	BDM	1.026	12.144	11.836	0.719	18,851	26.214
Tatitlek Narrows	20-May-89	242	12,0	0	1	17	238	BDM	1.026	7.290	7.105	0.719	11,316	15.736
Tatitlek Narrows	20-May-89	244	12.5	0	1	17	257	BDM	2.592	5.664	2.185	1.817	8.829	4.660
Tatitlek Narrows	20-May-89	228	13.0	0	1	17	283	KW	10.824	7.721	0.713	2.225	12.918	5.805
Tatitlek Narrows	20-May-89	227	14.0	0	1	17	348	KW	14.652	10.459	0,714	3.012	16.277	5.403
Tatitlek Narrows	30-May-89	400	7.5	0	2	10	142	C	1,020	4.710	4.618	1.020	4.710	4,618
Tatitlek Narrows	30-May-89	412	7.5	0	2	10	142	KW	5.628	9.870	1.754	1.157	21.040	18.183
Tatitlek Narrows	30-May-89	403	8.0	0	2	10	147	KW	6.834	5.315	0.778	1.405	11.201	7.972
Tatitlek Narrows	30-May-89	418	8.5	0	2	10	152	BDM	1.026	3,240	3.158	0.719	4.928	6.852
Tatitlek Narrows	30-May-89	402	8.5	0	2	10	152	BDM	1.200	4,860	4.050	0.841	7.391	8.788
Tatitlek Narrows	30-May-89	404	8.5	0	2	10	152	KW	1.188	2.988	2.515	0.244	6.214	25.442
Tatitlek Narrows	30-May-89	407	8.5	0	2	10	153	c	1.090	8,210	5.697	1.090	6.210	5.697
Tatitlek Narrows	30-May-89	414	9.0	0	2	10	159	BDM	1.884	4,050	2.150	1.320	6.172	4.674
Tatitlek Narrows	30-May-89	411	9.0	0	2	10	159	KW	5.226	8.353	1,598	1,074	17.107	15.921
Tatitlek Narrows	30-May-89	427	9.5	0	2	10	167	C	1.430	4.840	3.245	1.430	4.840	3.245
Tatitlek Narrows	30-May-89	410	9.5	0	2	10	167	KW	2.112	4.236	2.005	0.434	6.525	19.633
Tatitlek Narrows	30-May-89	413	9.5	0	2	10	167	KW	5.628	8.835	1.214	1.157	13.757	11.889
Tatitlek Narrows	30-May-89	416	9,5	0	2	10	167	BDM	1.542	3.240	2.101	1,081	4.949	4,579
Tatitlek Narrows	30-May-89	417	9,8	0	2	10	169	C	1.135	4.460	3.930	1.135	4,460	3.930
Tatitlek Narrows	30-May-69	415	9.7	0	2	10	171	c	1.045	10.845	10.378	1.045	10.845	10.378
Tatitlek Narrows	30-May-89	409	f 0.0	0	2	10	177	BDM	1.200	4.860	4.050	0,841	7.443	8.849
Tatitlek Narrows	30-May-69	405	10.5	0	2	10	188	BDM	1.542	5.484	3.556	1.081	8.423	7,794
Tatitlek Narrows	30-May-89	429	10.8	0	2	10	196	C	1,290	7,630	5.915	1.290	7.630	5.915
Tatitlek Narrows	30-May-89	406	11,4	0	1	27	214	C	1.780	8.130	4.567	1.780	8.130	4.567
Tatitlek Narrows	30-May-89	421	12.2	0	1	27	245	C	2.255	15.640	6.936	2.255	15.640	6.936
Tatitlek Narrows	30-May-89	424	13.0	0	1	27	283	KW	6,844	16,697	1.888	1.818	27.935	15.363
Tatitlek Narrows	30-May-89	401	13.5	0	1	27	313	KW	8,844	10.626	1.202	1.818	17.163	9.439
Tatitlek Narrows	30-May-89	419	t 4.5	0	1	27	386	KW	13.668	15.941	1.166	2.810	23.863	8.492
Tatitlek Narrows	30-May-89	425	t 4,6	0	1	27	397	c	1.795	20.050	11.170	1.795	20.050	11.170

Appendix J. RNA/DNA ratios of herring larvae collected from Prince William Sound, 1989.

Location	Date of capture	Vial no.	Fish length (mm)	Yolk sac	Cohort no.	Age (d)	Dry weight (ug)	Method of analysis	Nucleic acid concentration (ug/fish) DNA	RNA	RNA/DNA	Accuracy-corrected concentration (ug/fish) DNA	RNA	RNA/DNA
Tatitlek Narrows	30-May-89	426	15.0	0	1	27	436	t3DM	3,936	18.624	4.732	2,759	29.756	10.786
Tatitlek Narrows	30-May-69	399	15<0	0	1	27	436	KW	15.276	16.697	1.093	3.141	24.004	7.643
Tatitlek Narrows	30-May-89	428	15.5	0	1	27	491	BDM	2.040	14.574	7.144	1.430	23.415	16.376
Tatitlek Narrows	30-May-89	408	15,5	0	1	27	491	KW	10.854	31.879	2.937	2.232	43.952	19.695
Tatitlek Narrows	30-May-89	423	16.0	0	1	27	555	KW	16.090	12.359	0.663	3.719	16.323	4.389
Tatitlek Narrows	30-May-89	422	17.5	0	1	27	801	c	2.005	14.425	7.195	2.005	14.425	7.195
Tatitlek Narrows	30-May-69	420	21.5	0	1	27	2209	KW	16.236	30.630	1.887	3.336	24.697	7.456
Tatitlek Narrows	7-Jun-89	433	8.0	0	3	7	147	KW	2.160	2.550	1.181	0.444	5.374	12.101
Tatitlek Narrows	7-Jun-89	436	12.5	0	2	18	257	KW	10.800	2.041	0.189	2.220	3.529	1.589
Tatitlek Narrows	7-Jun-89	437	13.0	0	2	18	263	KW	5.400	1.788	0.331	1,110	2.992	2.695
Tatitlek Narrows	7-Jun-89	435	14.0	0	1	35	348	KW	3.120	10.709	3.432	0.641	16.667	25.902
Tatitlek Narrows	7-Jun-89	436	15.5	0	1	35	491	K-W	9.720	11,730	1.207	1.998	16.172	8.092
Tatitlek Narrows	7-Jun-89	439	15.5	0	1	35	491	KW	14.700	1,788	0.122	3.022	2.465	0.816
Tatitlek Narrows	7-Jun-89	431	17.0	0	1	35	713	KW	10.980	18.979	1.729	2.257	22.$44	10.163
Tatitlek Narrows	7-Jun-89	430	19.0	0	1	35	1193	KW	17.820	24.288	1.363	3.664	24.500	6.690
Tatitlek Narrows	7-Jun-89	434	22.0	0	1	35	2478	KW	23.490	35.676	1.519	4.830	27.850	5.767
Tatitlek Narrows	12-Jun-89	490	11.0	0	2	23	201	KW	8,370	4.847	0,579	1.721	9.138	5.310
Tatitlek Narrows	12-Jun-89	491	13,5	0	2	23	313	KW	9.990	5.609	0.561	2.054	9.060	4,411
Tatitlek Narrows	12-Jun-89	463	13.6	0	2	23	331	C	2.565	12,780	4.982	2.565	12.780	4.982
Tatitlek Narrows	12-Jun-89	489	14.7	0	2	23	408	C	1.685	16.405	9.764	1.885	18.405	9.764
Tatitlek Narrows	12-Jun-89	499	15,0	0	2	23	436	KW	10.530	12.241	1,162	2.165	17.597	8.128
Tatitlek Narrows	12-Jun-89	475	15.3	0	2	23	469	C	2.310	18.795	8.136	2.310	18.795	8,136
Tatitlek Narrows	12-Jun-89	474	16.0	0	2	23	555	KW	7.200	9.900	1.375	1.480	13.075	8.633
Tatitlek Narrows	12-Jun-89	480	16.5	0	2	23	628	KW	15.660	11.220	0.717	3.220	14.183	4.405
Tatitlek Narrows	12-Jun-89	486	16.9	0	2	23	688	c	2.670	24,725	9.260	2.670	24,725	9.260
Tatitlek Narrows	12-Jun-89	496	17.0	0	2	23	709	c	2.005	16.600	9,277	2.005	18.600	9.277
Tatitlek Narrows	12-Jun-89	478	17.0	0	2	23	713	KW	17.418	19.735	1.133	3.581	23,858	6.662
Tatitlek Narrows	12-Jun-89	468	17,0	0	2	23	713	KW	18.630	21.253	1.141	3.830	25.692	6.706
Tatitlek Narrows	12-Jun-89	472	17.0	0	2	23	713	KW	8.520	13.279	1.559	1.752	16.053	9.164
Tatitlek Narrows	12-Jun-89	473	17.3	0	2	23	777	c	2.705	19.925	7.366	2.705	19.925	7.366
Tatitlek Narrows	12-Jun-89	477	17.5	0	2	23	811	BDM	3.900	14.550	3.731	2,734	23.934	8.756
Tatitlek Narrows	12-Jun-89	485	17.5	0	2	23	811	KW	13,560	16,679	1.378	2.788	21.587	7.743

Appendix J. RNA/DNA ratios of herring larvae collected from Prince William Sound, 1989.

Location	Date of capture	Vial no.	Fish length (mm)	Yolk sac	Cohort no.	Dry Age (d)	Dry weight (ug)	Method of analysis	Nucleic acid concentration (ug/fish) DNA	RNA	RNA/DNA	Accuracy-corrected concentration (ug/fish) DNA	RNA	RNA/DNA
Tatitlek Narrows	12-Jun-89	493	17.7	0	2	23	851	C	3.170	17,685	5.579	3.170	17.685	5.579
Tatitlek Narrows	12-Jun-89	495	18.0	0	2	23	923	BDM	3.792	9.414	2.483	2.658	15.580	5.862
Tatitlek Narrows	12-Jun-89	484	18.0	0	2	23	923	Kw	17.010	18.109	1.065	3.497	20.001	5.719
Tatitlek Narrows	12-Jun-89	476	18.0	0	2	23	923	BDM	3.414	10.272	3.009	2.393	17.000	7.104
Tatitlek Narrows	12-Jun-89	402	18.0	0	2	23	923	KW	22.278	25.050	1.124	4.580	27,668	6.041
Tatitlek Narrows	12-Jun-89	494	18.5	0	2	23	1049	BDM	4.392	11.982	2.728	3.078	19,950	6.481
Tatitlek Narrows	12-Jun-89	497	19.0	0	2	23	1193	KW	22.278	27.324	1,226	4.580	27.572	6.020
Tatitlek Narrows	12-Jun-89	492	19.2	0	2	23	1286	C	5.950	33.935	5.703	5.950	33.935	5.703
Tatitlek Narrows	12-Jun-89	471	19.5	0	1	40	1345	C	2.680	28.010	9.726	2.880	28.010	9.726
Tatitlek Narrows	12-Jun-89	481	19.8	0	1	40	1471	c	5.850	33.665	5.755	5.850	33.665	5.755
Tatitlek Narrows	12-Jun-89	487	20,0	0	1	40	1536	KW	18.720	40.003	2,137	3,849	36.937	9.597
Tatitlek Narrows	12-Jun-89	498	20.0	0	1	40	1536	KW	24.708	30.359	1.229	5.080	28.032	5.518
Tatitlek Narrows	12-Jun-89	479	20.0	0	1	40	1536	KW	16.200	26.441	1.632	3.331	24,415	7.330
Tatitlek Narrows	12-Jun-89	47o	22.5	0	1	40	2772	BDM	7.218	35.946	4.980	5.059	62.638	12.381
Tatitlek Narrows	20-Jun-89	529	12.5	0	3	20	257	KW	7.752	7,691	0.992	1.594	13.302	6,346
Tatitlek Narrows	20-Jun-89	528	16,5	0	2	31	628	KW	19.560	28.662	1.465	4.022	36.229	9,009
Tatitlek Narrows	20-Jun-89	527	21,0	0	1	48	1962	KW	33,210	74,362	2,240	6.828	63.026	9.231
Tatitlek Narrows	20- Jun-89	530	23.0	0	1	48	3089	KW	79.104	171.841	2.172	16.264	124.161	7.634

Notes:

1. KW = Karsten and Wollenberger's (1972, 1976) method of measuring RNA-DNA.
2. C = Clemmesen's (1988) method of measuring RNA-DNA.
3. BDM . Bentle et al.'s (1981) method of measuring RNA-DNA.
4. yolk sac 1 = present; O = absent.
5. Weight = exp(4.8288+(5.5261/(1 +exp(-3.6404(lnL-3 .0465))))) for non yolk sac larvae. An extra 22 ug added for yolk sac larva,