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PLANKTON STUDIES IN SAN FRANCISCO BAY. VI.

ZOOPLANKTON SPECIES COMPOSITION AND ABUNDANCE IN THE NORTH BAY, 1979 - 1980

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U. S. GEOLOGICAL SURVEY

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Prepared as part of a continuing study of the
San Francisco Bay estuary

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PLANKTON STUDIES IN SAN FRANCISCO BAY. VI.
ZOOPLANKTON SPECIES COMPOSITION AND ABUNDANCE
IN THE NORTH BAY, 1979 - 1980

By Anne Hutchinson

ABSTRACT

Data are presented that summarize zooplankton species composition and abundance in North San Francisco Bay during 1979 and 1980. Sampling was conducted once monthly at six stations during 1979 and twice monthly at sixteen stations during 1980. Samples were collected by pump at three depths in the shipping channel and at one depth over the shoals. Subsamples were enumerated while alive. Total zooplankton biomass, as carbon, was calculated from estimated carbon quotas and abundances of each organism enumerated.

INTRODUCTION

The 1979 and 1980 North Bay data in this report are a continuation of the author's 1978 and 1979 study of South San Francisco Bay zooplankton (Hutchinson, 1981). In 1979 six stations located in the central channel from the Golden Gate Bridge to Pittsburg (Figure 2) were sampled monthly. In 1980 these stations plus eight others were sampled twice monthly. Six new stations were located in the lateral shoals of San Pablo Bay and Suisun Bay, and additional stations were located in the Sacramento River near Rio Vista and in the San Joaquin River east of Antioch.

Zooplankton studies in San Francisco Bay by other researchers are summarized in Hutchinson (1981).

METHODS

The 710 samples in this study were collected on 31 cruises between February 1979 and February 1981.

Sampling stations (Figure 1) were located in the ship channel (depth ≈ 10 m) and over the shoals (depth≈2 m). In the ship channel three depths were sampled: near-surface, mid-depth, and near-bottom. Over the shoals one sample was taken at mid-depth. Samples were collected with a Jabsco[1] (Model No. 18270-0000) 2-inch bronze and brass pump with a neoprene impeller, powered by an electric Baldor (Model No. M3609) 3-phase, 220-v motor. The intake end of a 2-inch PVC reinforced hose (B. F. Goodrich Radial Flex) was lowered with a hydrowire in the shipping channel or by hand over the shoals to depth. Zooplankton were collected by pumping water through a 64-μ mesh net. Total volume sampled was about 1.5 m^3.

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[1]Brand names are for identification purposes only and do not constitute endorsement by the U.S. Geological Survey.

All counts were done on live animals. The samples were placed in a pharmaceutical cylinder to settle, and wet volume was measured. Bay-water filtered through a 20-μmesh screen was added to make up a volume approximately 100 times the settled volume. The made-up volume was usually 300 to 500 ml but ranged from 100 to 1000 ml. A 1-ml aliquot was removed with a Hensen-Stemple pipette and placed in a plexiglass counting tray. The counting trays have short narrow cells which reduce animal movement from ship motion and swimming. All the animals in the 1-ml aliquot were enumerated; usually at least 50 individuals of the most abundant species were enumerated. As only one aliquot was counted, rare species were either missed altogether or overestimated if present in the single aliquot. All samples were preserved in buffered formalin after counting.

An attempt was made to identify all animals to species level (Table II). Common copepod species were identified as females (F), males (M), copepodites (C), and nauplii (N). Unidentifiable organisms are referenced by letters (Table III and Figure 2). Estimates of precision of the sampling and counting methods are given in Hutchinson (1981).

While zooplankton were being collected, water samples were taken to measure vertical distributions of salinity (SALIN), temperature (TEMP), and chlorophyll *a*. Light extinction coefficient (EXCOF) was determined from vertical profiles of quantum irradiance. All discrete measurements of hydrographic data do not correspond to the same depths at which zooplankton were collected. In these cases hydrographic data were based upon linear interpolation of data collected at depths above and below depths of zooplankton sampling. In all cases the depth given is where the zooplankton were sampled and is not necessarily the depth of the

hydrographic data. The hydrographic parameters and chlorophyll *a* measurements included here are the closest measurements (in time and space) taken. For the actual data see Smith and Herndon (1982).

Semi-quantitative detritus measurements were made for each sample. See Table IV for relative values. No attempt has been made to correct the data for tidal stage at the time of collection, but data summary sheets note whether the tide was ebbing (-1), slack (0), or flooding (1).

Total zooplankton biomass is estimated in terms of carbon (mg C/m^3). The carbon content of each taxon was estimated from the literature by conversion from volume measurements or by carbon analysis. Table II lists the estimates of carbon for each taxon used to calculate zooplankton carbon per cubic meter.

Most of the samples were collected by the author and Jim Cloern with assistance from Andrea Alpine, Brian Cole, Michael McGowan, and Ray Wong. All the samples were enumerated by the author with tabulation help from many people. Computer assistance was provided by Richard Smith and Grant Eisen.

REFERENCES

Hutchinson, A., 1981, Plankton studies in San Francisco Bay. III. Zooplankton species composition and abundance in the South Bay, 1978 - 1979: U.S. Geological Survey Open-File Report 81-132, 107 p.

Smith, R.E., and Herndon, R.E., 1982, Physical and chemical properties of San Francisco Bay waters, January 1980 - February 1981: U. S. Geological Survey Open-File Report, (in prep.).

TABLE I. SAMPLING DATES AND STATIONS

DATE	STATIONS SAMPLED CHANNEL							
1979								
14 FEB	19,	17,	15,	12,	9,	6,	3	
6 MAR	17,	15,	12,	9,	6,	3		
3 APR	17,	15,	12,	9,				
9 MAY	17,	15,	12,	9,	6,	3		
5 JUN	17,	15,	12,					
10 JUL	17,	15,	12,	9,	6,	3		
14 AUG	17,	15,	12,	9,	6,	3		
18 SEP	17,	15,	12,	9,	6,	3		
1980								
9 JAN	17,	15,	13,	9,	5,	3,	657	
24 JAN	19,	17,	15,	13,	9			
6 FEB	19,	17,	15,	13,	9,	6,	4,	657
5 MAR	17,	15,	13,	9,	6,	3		
19 MAR	19,	17,	15,	13,	9,	5,	3,	657
9 APR	17,	15,	13,	9,	6,	3,	657	
23 APR	19,	17,	15,	13,	9,	6,	3,	657
8 MAY	17,	15,	13	9,	6,	3,	657	
22 MAY	19,	17,	15,	13,	9,	6,	3,	657
5 JUN	17,	15,	13,	9,	6,	3,	657	
18 JUN	17,	15,	13,	9,	6,	3,	657	
2 JUL	19,	17,	15,	13,	9,	6,	3,	657
17 JUL	17,	15,	13,	9,	6,	3,	657	
5 AUG	17,	15,	13,	9,	6,	3,	657	
19 AUG	17,	15,	13,	9,	6,	3,	657	
4 SEP	17,	15,	13,	9,	6,	3,	657	
17 SEP	17,	15,	13,	9,	6,	3,	657	
16 OCT	17,	15,	13,	9,	6,	3,	657	
29 OCT	17,	15,	13,	9,	6,	3,	657	
13 NOV	17,	15,	13,	9,	6,	3,	657	
17 DEC	17,	15,	13,	9,	6,	3,	657	
1981								
10 FEB	17,	15,	13,	9,	6,	3		

TABLE I. SAMPLING DATES AND STATIONS continued

DATE	STATIONS SAMPLED SHOALS
1980	
9 JAN	302, 306, 312, 318, 324, 334, 404, 414, 416, 757
6 FEB	302, 312, 318, 324, 334, 404, 418, 438, 757
5 MAR	312, 318, 324, 404, 418
19 MAR	302, 306, 312, 318, 324, 334
9 APR	302, 306, 312, 318, 324, 334, 414, 418, 757
23 APR	302, 306, 312, 318, 324, 334
8 MAY	302, 306, 312, 318, 324, 334, 414, 419, 757
22 MAY	302, 306, 312, 318, 324, 334, 414, 418
5 JUN	302, 306, 312, 318, 324, 334, 414, 420, 757
18 JUN	302, 312, 318, 404, 414, 418, 438, 757
17 JUL	302, 306, 312, 318, 324, 414, 415, 432, 757
5 AUG	324, 414, 418, 432, 757
19 AUG	302, 306, 312, 318, 324, 334, 414, 418, 432, 757
4 SEP	302, 306, 312, 318, 324, 334, 414, 418, 432, 757
17 SEP	306, 312, 318, 324, 414, 418, 432, 757
16 OCT	302, 306, 312, 318, 324, 334, 414, 418, 432, 757
29 OCT	302, 306, 312, 318, 324, 334, 414, 418, 432, 757
13 NOV	302, 306, 312, 318, 324, 334, 414, 432, 751
17 DEC	302, 306, 312, 318, 324, 334, 414, 418, 432, 757
1981	
10 FEB	312, 318, 418

TABLE II. SPECIES LIST
With codes, carbon values and sources

F = Female, M = Male, C = Copepodite, N = Nauplius

Code	Species	ug C/animal	Source
5	Acartia clausi F	2.770	1
6	Acartia clausi M	1.400	1
7	Acartia clausi C	0.800	3
8	Acartia clausi N	0.100	3
10	Acartia californiensis F	2.900	4
11	Acartia californiensis M	1.600	4
12	Acartia californiensis C	0.800	4
13	Acartia californiensis N	0.100	4
17	Acartia tonsa F	2.900	4
18	Acartia tonsa M	1.600	4
27	Tortanus discaudatus F	8.000	4
28	Tortanus discaudatus M	6.000	4
29	Tortanus discaudatus C	3.000	4
30	Calanus pacificus F	67.800	3
31	Calanus pacificus M	60.000	3
32	Calanus pacificus C	20.000	4
36	Calanus tenuicornis C	5.000	4
37	Calanus tenuicornis N	0.500	4
60	Paracalanus parvus F	2.500	4
61	Paracalanus parvus M	2.500	4
62	Paracalanus parvus C	0.500	4
63	Paracalanus parvus N	0.100	4
70	Pseudocalanus sp.A F	8.000	4
72	Pseudocalanus sp.A C	3.000	4
100	Eurytemora affinis F	3.200	2
101	Eurytemora affinis M	2.500	2
102	Eurytemora affinis C	1.000	2
131	Metridia pacifica M	10.000	4
132	Metridia pacifica C	5.000	4
143	Sinocalanus dorii F	8.000	4
161	Pseudodiaptomus eurybalinus M	4.000	4
162	Pseudodiaptomus eurybalinus C	2.000	4
190	Epilabidocera longipedata F	40.000	4
191	Epilabidocera longipedata M	30.000	4
192	Epilabidocera longipedata C	12.000	4
194	copepodite (unknown)	3.000	4
195	copepod nauplius D	0.200	4
196	copepod nauplius A	0.100	4
197	copepod nauplius B	0.100	4
197	copepod nauplius B	0.100	4
199	copepod nauplius	0.100	4
200	Cyclopoida	3.000	4
210	Oithona spp.	0.600	4
213	Oithona spinirostris	0.700	4
220	Corycaeus sp.	1.400	4
250	Harpacticoida	1.200	4
251	Harpacticoid B (bronze)	1.000	4
260	Sapphirina spp.	1.800	4
270	Microsetella sp.	0.800	4
280	Harpacticoid sp.A	0.800	4
281	Harpacticoid A N	0.080	4
300	Amphipoda	0.000	
320	Isopoda	0.000	
321	Isopoda imm.	0.000	
325	Synidotea laticauda imm.	0.000	
331	Mysid juvenile	0.000	

1. CHN analysis
2. Carbon value from literature
3. Estimated from literature dry wt.
4. Estimated from volume measurements

If no carbon is listed, the species was not included in carbon estimates.

Table II. SPECIES LIST Continued

333	Neomysis mercedis juv.	0.000	
345	Grapsid zoea	0.000	
350	Xanthid zoea	0.000	
355	Cancer zoea	0.000	
360	Pinnotherid zoea	0.000	
370	Natantia zoea	0.000	
376	Crangon sp.	0.000	
391	euphausid nauplius	0.000	
401	barnacle nauplius	1.500	4
402	barnacle cypris	2.000	4
420	Ostracoda	1.000	4
450	Evadne	1.500	4
451	Podon	1.500	4
460	Halocarida	2.500	4
505	echinoderm pleuteus larva	0.800	4
520	Chaetognatha	5.000	4
521	Sagitta spp.	5.000	4
540	Larvacea	1.000	4
541	Oikopleuridae	1.000	4
545	Ascidian larva	1.000	4
551	Engraulis mordax egg	1.000	4
559	other fish egg	1.000	4
560	fish larva	0.000	
570	Gobiidae larva	0.000	
582	Engraulis mordax larva	0.000	
601	tintinnid spp.	0.010	4
602	Tintinnopsis sp. A	0.020	4
603	Tintinnopsis sp. B	0.008	1
604	Tintinnid sp.C	0.008	4
605	Eutintinnus neriticus	0.020	4
607	Tintinnopsis sp.D (2B)	0.012	4
608	Parafavella sp.	0.010	4
609	Tintinnopsis sp. E (1/4B)	0.001	4
625	ciliate	0.001	4
630	coiled Foraminifera	0.050	4
661	Hydroida (stalked)	0.000	
666	Polyorchis sp.	0.000	
681	flatworm sp. A	1.500	4
682	flatworm sp. B	1.500	4
690	Nemertina	2.000	4
691	Pilidium larva	0.500	4
692	Nemertine larva	1.000	4
700	Rotifera	0.050	4
701	Synchaeta sp.	0.050	4
702	Synchaeta sp. egg	0.050	4
705	Keratella sp.	0.030	4
713	Asplancha sp.	0.070	4
740	Nematoda	2.000	4
748	Phoronida larva	0.500	4
750	Ectoprocta (Bryozoa)	0.000	4
751	Ectoprocta larva	0.200	4
790	Mollusca	0.000	4
801	Gastropod veliger	0.300	4
821	Bivalvia veliger	0.300	4
851	polychaete trochophore	1.200	4
852	polychaete larva	0.000	4
855	spionid larva	2.300	4
856	Polydora ligna	3.000	4
880	scaleworm larva	2.300	4
899	pelagic polychaete	4.000	4

1. CHN analysis
2. Carbon value from literature
3. Estimated from literature dry wt.
4. Estimated from volume measurements

If no carbon is listed, the species was not included in carbon estimates.

TABLE III. NOTES ON UNIDENTIFIED SPECIES

CODE	SPECIES	NOTES
195	Copepod nauplius D	Fig. 2A
196	Copepod nauplius A	Probably a parasitic copepod, not a nauplius. Fig. 2B
197	Copepod nauplius B	Perhaps Eurytemora affinis nauplius. Fig. 2C
198	Copepod nauplius C	Fig. 2D
280	Harpacticoid sp. A	Red color in live animal. Fig. 2E
281	Harpacticoid sp. A N	Distinguishable only by red color in live animal.
602	Tintinnopsis sp. A	Fig. 2F
603	Tintinnopsis sp. B	Fig. 2G
604	Tintinnid sp. C	Probably preserved Parafavella sp.
681	Flatworm sp. A	Polyclad turbellaria Fig. 2H
682	Flatworm sp. B	Non polyclad turbellaria. May contain several species.
855	Spionid larva	Probably Polydora ligna
880	Scale worm larva	Probably Hermothoe imbricata

TABLE IV. DEFINTITION OF DETRITUS MEASUREMENT

DETRITUS MEASUREMENT	VOLUME (in ml) OF NONLIVING MATERIAL IN 1.5 m^3 OF WATER
-	Not measured
0	0
1	<1
2	1-4
3	5-10
4	>10

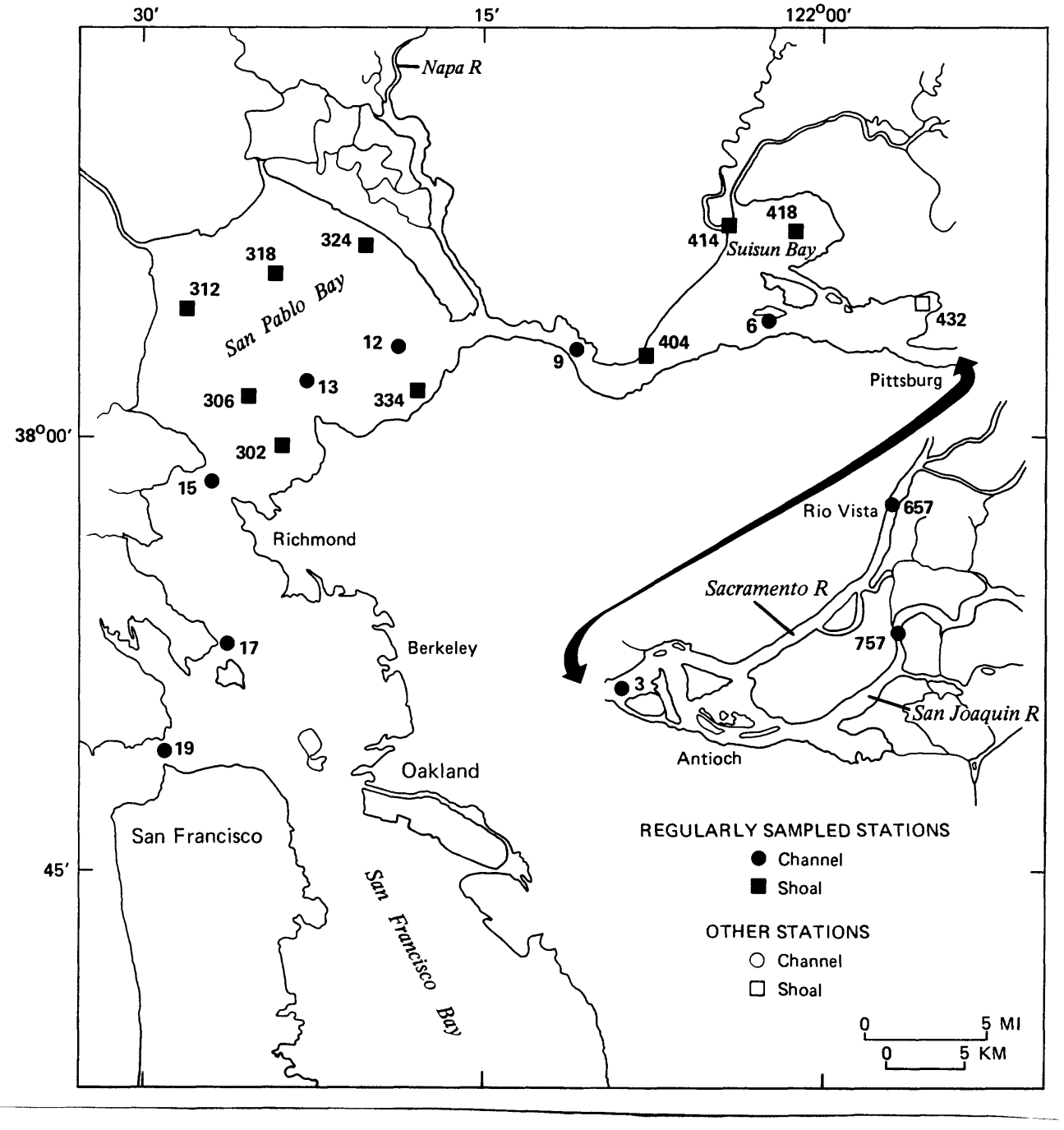

Figure 2. Map of North San Francisco Bay showing sampling stations.

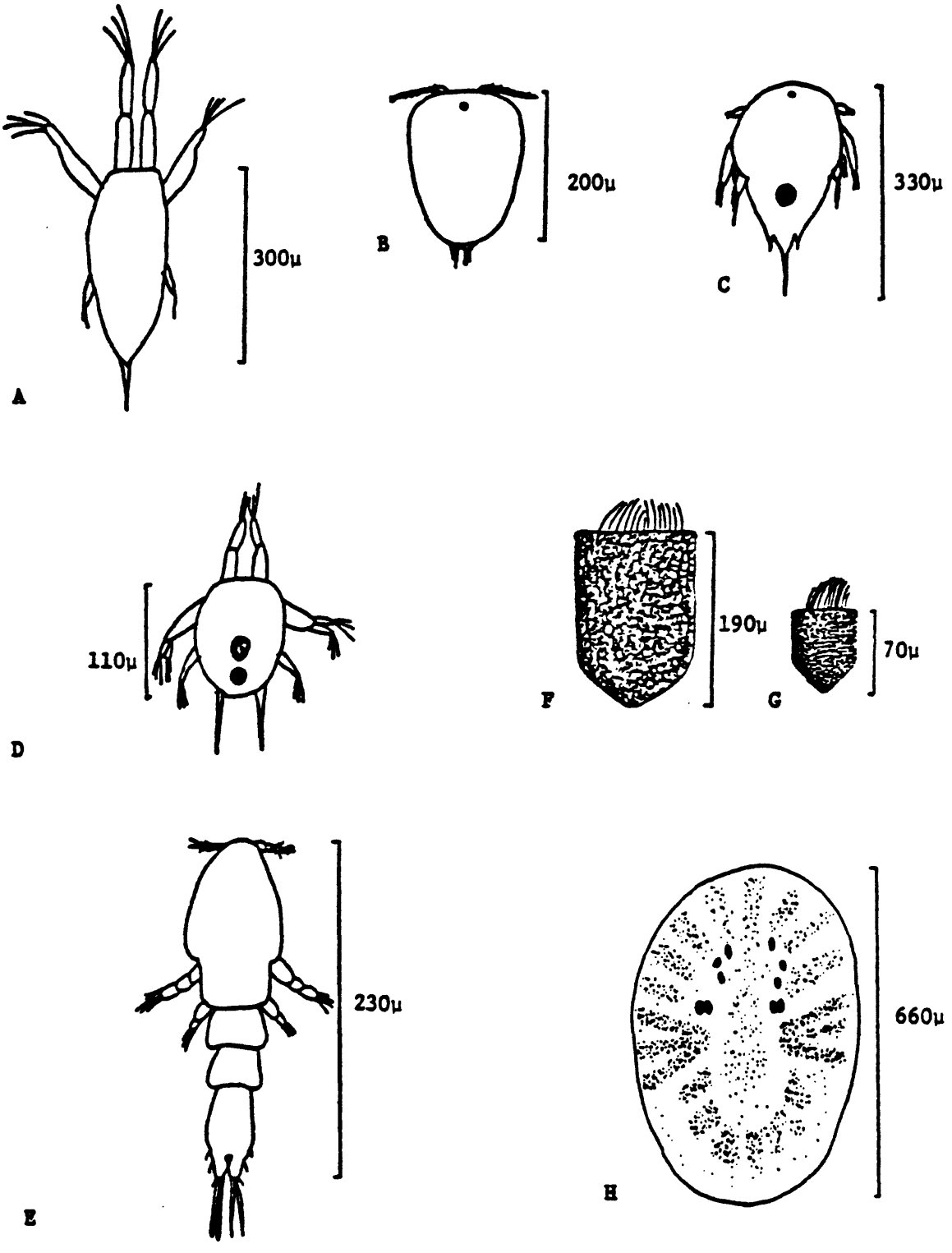

Figure 2. Illustrations of Unknown Species. A, copepod nauplius D; B, copepod nauplius A; C, copepod nauplius B; D, copepod nauplius C; E, harpacticoid sp. A; F, Tintinnopsis sp. A; G, Tintinnopsis sp. B; H, Flatworm sp. A.

APPENDIX A. ZOOPLANKTON DATA TABLES

U.S. GEOLOGICAL SURVEY - WATER RESOURCES

ESTUARINE STUDIES GROUP
ZOOPLANKTON

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
140279	79045	North S.F.Bay	Polaris	80

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1330	19	11.0	11.2	30.6	2.3	-	-	1	ship
1335	19	2.0	11.2	30.4	3.2	0.8	-	1	ship
1236	17	10.0	11.0	28.9	2.3	1.4	-	1	ship
1242	17	5.0	11.0	28.8	2.2	0.3	-	1	ship
1249	17	1.0	11.0	25.0	1.9	1.0	-	1	ship
1136	15	9.0	10.8	24.4	2.3	1.6	-	1	ship
1142	15	5.0	10.8	23.3	2.3	1.1	-	1	ship
1148	15	1.0	10.9	22.3	2.6	2.0	-	1	ship

		Station	19		17			15		
		Depth	11.0	2.0	10.0	5.0	1.0	9.0	5.0	1.0
Code	Name		Number per cubic meter							
5	Acartia clausi F		267	0	1400	1000	200	333	1400	200
6	Acartia clausi M		267	0	400	1800	200	0	2000	0
7	Acartia clausi C		1000	943	1000	4800	1200	2667	8000	9200
8	Acartia clausi N		0	0	0	200	400	1667	5600	16600
36	Calanus tenuicornis C		267	0	200	600	0	0	0	0
60	Paracalanus parvus F		0	0	600	400	0	0	200	0
61	Paracalanus parvus M		0	0	200	400	0	0	0	0
62	Paracalanus parvus C		533	0	400	800	0	0	0	0
100	Eurytemora affinis F		0	0	0	0	0	0	0	0
101	Eurytemora affinis M		0	0	0	0	0	0	0	0
102	Eurytemora affinis C		0	0	0	0	0	0	0	0
103	Eurytemora affinis N		0	0	0	0	0	0	0	0
194	copepodite (unknown)		267	0	0	0	0	0	0	0
196	copepod nauplius A		267	943	0	0	400	0	0	0
199	copepod nauplius		1333	3774	0	0	600	0	0	0
200	Cyclopoida		267	943	0	0	1200	0	0	0
210	Oithona spp.		0	0	0	200	0	0	200	0
250	Harpacticoida		0	0	200	200	0	0	0	0
281	Harpacticoid A N		0	0	0	0	200	0	0	0
401	barnacle nauplius		800	0	0	0	200	333	0	400
420	Ostracoda		0	0	200	0	0	0	0	0
440	Cladocera		0	0	0	0	0	0	0	0
441	Bosmina sp.		0	0	0	0	0	0	0	0
520	Chaetognatha		267	0	0	0	0	0	0	0
559	other fish egg		800	0	0	0	0	0	0	0
603	Tintinnopsis sp. B		0	0	0	0	0	0	400	0
801	Gastropod veliger		0	0	0	0	0	0	0	0
821	Bivalvia veliger		800	0	200	800	800	0	0	800
855	spionid larva		533	0	0	400	1400	0	0	0
			mg Carbon per cubic meter							
			10	4	9	16	9	4	14	10

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
140279	79045	North S.F.Bay	Polaris	80

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1030	12	6.0	10.4	17.5	2.4	2.9	-	1	ship
1035	12	3.0	10.4	15.8	2.0	2.0	-	1	ship
1041	12	1.0	10.4	15.7	2.0	1.8	-	1	ship
917	9	10.0	10.0	11.3	2.4	5.3	-	-1	ship
923	9	5.0	10.0	10.8	2.4	4.2	-	-1	ship
929	9	1.0	10.0	10.8	1.7	4.0	-	-1	ship
800	6	9.0	9.8	5.6	2.5	6.7	-	-1	ship
805	6	5.0	9.8	5.7	2.5	5.5	-	-1	ship
811	6	1.0	9.8	5.7	3.1	4.5	-	-1	ship

		Station		12			9			6	
		Depth	6.0	3.0	1.0	10.0	5.0	1.0	9.0	5.0	1.0
Code	Name					Number per cubic meter					
5	Acartia clausi F		4000	4800	600	1867	2800	400	0	0	0
6	Acartia clausi M		1333	4200	800	1067	0	0	0	0	0
7	Acartia clausi C		1067	1200	1400	267	600	200	0	0	0
8	Acartia clausi N		0	0	200	0	0	200	0	0	0
36	Calanus tenuicornis C		0	0	0	0	0	0	0	0	0
60	Paracalanus parvus F		267	0	0	0	0	0	0	0	0
61	Paracalanus parvus M		0	0	0	0	0	0	0	0	0
62	Paracalanus parvus C		0	0	0	0	0	0	0	0	0
100	Eurytemora affinis F		0	0	0	0	200	0	233	467	0
101	Eurytemora affinis M		0	0	0	0	0	0	233	233	200
102	Eurytemora affinis C		0	0	0	0	0	200	933	0	200
103	Eurytemora affinis N		0	0	0	0	0	0	0	0	400
194	copepodite (unknown)		0	0	0	0	0	0	233	0	200
196	copepod nauplius A		0	0	0	0	0	0	0	0	0
199	copepod nauplius		0	0	0	0	0	0	0	0	0
200	Cyclopoida		0	0	1000	533	200	0	933	700	1000
210	Oithona spp.		0	0	0	0	0	0	0	0	0
250	Harpacticoida		267	0	0	267	200	400	933	1633	800
281	Harpacticoid A N		0	0	0	0	0	0	0	0	0
401	barnacle nauplius		0	0	400	267	0	400	0	0	0
420	Ostracoda		0	0	0	0	0	0	0	0	0
440	Cladocera		0	0	0	0	0	0	233	233	0
441	Bosmina sp.		0	0	0	0	0	0	0	0	0
520	Chaetognatha		0	0	0	0	0	0	0	0	0
559	other fish egg		0	0	0	0	0	0	0	0	0
603	Tintinnopsis sp. B		0	0	800	0	0	0	0	0	0
801	Gastropod veliger		0	0	0	267	0	0	0	0	0
821	Bivalvia veliger		0	0	0	0	0	0	0	0	0
855	spionid larva		0	0	0	0	0	0	0	0	0
						mg Carbon per cubic meter					
			15	20	8	9	10	3	7	6	5

U.S. GEOLOGICAL SURVEY - WATER RESOURCES

ESTUARINE STUDIES GROUP
ZOOPLANKTON

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
140279	79045	North S.F.Bay	Polaris	80

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
646	3	10.0	9.8	1.3	2.5	4.6	-	-1	ship
652	3	5.0	9.8	1.2	2.5	4.1	-	-1	ship
658	3	1.0	9.6	0.8	2.1	5.5	-	-1	ship

		Station	3		
		Depth	10.0	5.0	1.0
Code	Name				Number per cubic meter
5	Acartia clausi F		0	0	0
6	Acartia clausi M		0	0	0
7	Acartia clausi C		0	0	0
8	Acartia clausi N		0	0	0
36	Calanus tenuicornis C		0	0	0
60	Paracalanus parvus F		0	0	0
61	Paracalanus parvus M		0	0	0
62	Paracalanus parvus C		0	0	0
100	Eurytemora affinis F		614	0	200
101	Eurytemora affinis M		0	800	800
102	Eurytemora affinis C		2047	3800	2800
103	Eurytemora affinis N		0	4200	0
194	copepodite (unknown)		0	0	0
196	copepod nauplius A		0	0	0
199	copepod nauplius		3479	0	800
200	Cyclopoida		2661	600	0
210	Oithona spp.		0	0	0
250	Harpacticoida		1023	600	0
281	Harpacticoid A N		0	0	0
401	barnacle nauplius		0	0	0
420	Ostracoda		0	0	0
440	Cladocera		0	0	0
441	Bosmina sp.		0	0	200
520	Chaetognatha		0	0	0
559	other fish egg		0	0	0
603	Tintinnopsis sp. B		0	0	0
801	Gastropod veliger		0	0	0
821	Bivalvia veliger		0	0	0
855	spionid larva		0	0	0
					ug Carbon per cubic meter
			14	9	6

U.S. GEOLOGICAL SURVEY - WATER RESOURCES

ESTUARINE STUDIES GROUP
ZOOPLANKTON

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
60379	79065	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1515	17	8.5	11.4	20.4	1.7	2.0	-	-1	ship
1522	17	4.0	11.5	13.1	1.8	2.0	-	-1	ship
1530	17	1.0	11.7	12.2	2.1	2.4	-	-1	ship
1402	15	10.0	12.5	11.1	1.9	2.0	-	-1	ship
1409	15	6.0	12.6	8.7	2.1	2.2	-	-1	ship
1416	15	1.0	12.6	6.3	2.6	2.4	-	-1	ship
1251	12	7.0	11.3	20.1	1.7	9.3	-	-1	ship
1258	12	4.0	11.3	19.1	1.8	6.2	-	-1	ship
1306	12	1.0	11.5	8.5	1.7	3.8	-	-1	ship

		Station		17			15			12	
		Depth	8.5	4.0	1.0	10.0	6.0	1.0	7.0	4.0	1.0
Code	Name					Number per cubic meter					
5	Acartia clausi F		3733	933	466	800	266	0	4266	2000	266
6	Acartia clausi M		3200	1400	0	1200	0	0	12266	4666	0
7	Acartia clausi C		4266	2100	466	6600	800	1200	1866	1000	3466
8	Acartia clausi N		0	1866	4666	12800	13866	32000	3200	666	22666
60	Paracalanus parvus F		533	0	0	0	0	0	533	666	0
61	Paracalanus parvus M		266	0	0	0	0	0	0	0	0
62	Paracalanus parvus C		2400	233	0	200	0	0	533	1000	0
100	Eurytemora affinis F		0	0	0	0	0	0	0	0	0
101	Eurytemora affinis M		0	0	0	0	0	0	0	0	0
102	Eurytemora affinis C		0	0	0	0	0	200	533	0	0
143	Sinocalanus dorii F		0	0	0	0	0	0	0	0	0
145	Sinocalanus dorii C		0	0	0	0	0	0	0	0	0
194	copepodite (unknown)		0	0	0	0	0	0	0	0	0
198	copepod nauplius C		0	0	0	0	0	0	0	0	0
199	copepod nauplius		0	0	0	0	0	0	0	0	0
200	Cyclopoida		266	0	233	0	0	1000	0	666	266
220	Corycaeus sp.		266	0	0	0	0	0	266	0	0
250	Harpacticoida		266	0	233	1000	1066	400	533	333	0
320	Isopoda		0	0	0	0	0	0	0	333	0
401	barnacle nauplius		0	233	0	200	0	0	0	333	0
440	Cladocera		0	0	0	0	0	0	0	0	0
520	Chaetognatha		266	0	0	0	0	0	266	0	0
560	fish larva		0	0	0	0	0	0	0	0	0
601	tintinnid spp.		80000	72333	81666	26000	46666	42000	133333	108333	33333
700	Rotifera		0	0	0	200	0	800	0	333	0
740	Nematoda		0	0	0	0	0	0	0	0	0
821	Bivalvia veliger		0	0	1866	200	266	200	0	0	266
850	Polychaeta		0	0	0	0	0	0	0	0	0
855	spionid larva		266	233	233	0	0	0	0	0	0
						mg Carbon per cubic meter					
			26	8	5	12	5	8	37	19	7

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
60379	79065	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1108	9	12.0	11.3	9.3	1.9	3.8	-	-1	ship
1114	9	5.0	11.3	9.4	2.0	3.8	-	-1	ship
1120	9	1.0	11.7	2.9	1.6	4.1	-	-1	ship
946	6	8.0	11.5	0.2	2.1	4.1	-	-1	ship
951	6	4.0	11.5	0.2	2.1	4.1	-	-1	ship
956	6	1.0	11.5	0.2	2.0	4.1	-	-1	ship
732	3	11.0	11.0	0.1	2.1	4.7	-	1	ship
738	3	5.0	11.1	0.1	2.1	4.6	-	1	ship
745	3	1.0	11.1	0.1	1.9	4.6	-	1	ship

		Station		9			6			3	
		Depth	12.0	5.0	1.0	8.0	4.0	1.0	11.0	5.0	1.0
Code	Name					Number per cubic meter					
5	Acartia clausi F		17866	3000	0	0	0	0	0	0	0
6	Acartia clausi M		2666	1800	0	0	0	0	0	0	0
7	Acartia clausi C		10933	2800	0	0	0	0	0	0	0
8	Acartia clausi N		6133	14600	4266	0	0	0	0	0	0
60	Paracalanus parvus F		0	0	0	0	0	0	0	0	0
61	Paracalanus parvus M		0	0	0	0	0	0	0	0	0
62	Paracalanus parvus C		0	0	0	0	0	0	0	0	0
100	Eurytemora affinis F		533	0	0	0	0	0	0	0	0
101	Eurytemora affinis M		266	200	0	0	467	0	0	0	0
102	Eurytemora affinis C		0	0	0	3033	233	0	0	0	0
143	Sinocalanus dorii F		0	0	0	467	0	0	0	0	0
145	Sinocalanus dorii C		0	0	0	1167	467	0	0	0	0
194	copepodite (unknown)		0	0	0	0	0	0	0	0	433
198	copepod nauplius C		0	0	0	0	0	0	233	0	0
199	copepod nauplius		0	0	0	9333	6767	3467	1866	5200	3249
200	Cyclopoida		266	200	1066	2567	1633	1867	0	2200	1950
220	Corycaeus sp.		0	0	0	0	0	0	0	0	0
250	Harpacticoida		0	0	266	0	0	0	0	0	0
320	Isopoda		0	0	0	0	0	0	0	0	0
401	barnacle nauplius		0	0	0	0	0	0	0	0	0
440	Cladocera		0	0	0	0	0	0	233	400	433
520	Chaetognatha		0	0	0	0	0	0	0	0	0
560	fish larva		0	0	0	0	0	0	0	0	1
601	tintinnid spp.		0	45000	2666	0	0	0	0	0	0
700	Rotifera		0	600	0	233	0	267	700	2600	3900
740	Nematoda		0	0	0	0	0	0	233	200	0
821	Bivalvia veliger		0	0	0	0	0	0	0	0	0
850	Polychaeta		266	0	0	0	0	0	0	0	0
855	spionid larva		0	400	0	0	0	0	0	0	0
						mg Carbon per cubic meter					
			66	17	4	19	8	6	1	8	8

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
30479	79093	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1301	17	8.0	25.3	13.0	0.9	3.8	-	-1	lab
1307	17	4.0	21.7	13.3	1.3	3.8	-	-1	lab
1313	17	1.0	14.5	14.3	2.4	4.6	-	-1	lab
1209	15	9.0	15.9	13.8	2.6	3.7	-	-1	ship
1215	15	5.0	12.7	14.1	3.1	3.7	-	-1	ship
1221	15	1.0	10.0	14.5	5.5	2.2	-	-1	ship
1053	12	7.0	13.4	20.6	1.6	3.7	-	-1	lab
1059	12	4.0	17.3	13.7	2.1	3.6	-	-1	lab
1105	12	1.0	8.0	14.2	3.8	3.6	-	-1	ship

		Station		17			15			12	
		Depth	8.0	4.0	1.0	9.0	5.0	1.0	7.0	4.0	1.0
Code	Name					Number per cubic meter					
5	Acartia clausi F		0	0	0	1998	800	0	0	0	0
6	Acartia clausi M		0	0	0	3330	1067	0	0	0	0
7	Acartia clausi C		0	0	0	15651	12533	2107	0	0	400
8	Acartia clausi N		5778	5556	4222	5327	5333	8533	889	778	12800
10	Acartia californiensis F		4111	1444	2222	0	0	0	1667	4333	0
11	Acartia californiensis M		4778	3444	4222	0	0	0	10444	13111	0
12	Acartia californiensis C		5333	6000	6000	0	0	0	10556	5000	0
102	Eurytemora affinis C		0	0	0	0	0	0	0	0	0
194	copepodite (unknown)		7	0	0	333	0	0	0	0	0
197	copepod nauplius B		0	0	0	0	0	0	0	0	400
199	copepod nauplius		0	0	0	0	0	0	0	0	0
200	Cyclopoida		0	111	111	0	0	0	0	556	0
250	Harpacticoida		1000	889	333	0	0	534	0	111	0
320	Isopoda		0	0	0	0	0	0	17	11	0
332	Neomysis mercedis		0	0	0	0	0	0	0	0	0
340	Reptantia zoea		0	0	0	0	0	0	111	0	0
370	Natantia zoea		0	5	0	0	0	0	7	6	0
401	barnacle nauplius		1111	3333	1000	0	534	2670	0	0	1400
402	barnacle cypris		10	0	0	0	267	0	0	0	0
560	fish larva		0	5	3	0	0	1	7	4	0
581	Clupea harengus		0	0	0	0	0	0	0	0	200
601	tintinnid spp.		0	0	0	0	56000	0	0	0	2800
602	Tintinnopsis sp. A		2222	444	1222	1998	0	0	1333	889	0
603	Tintinnopsis sp. B		10667	4556	0	10656	0	57333	19556	19889	0
605	Eutintinnus neriticus		0	1000	556	0	0	0	0	0	0
630	coiled Foraminifera		333	111	0	0	0	0	0	111	0
700	Rotifera		0	0	0	0	267	0	0	0	0
701	Synchaeta sp.		0	0	0	0	0	0	0	0	0
801	Gastropod veliger		0	111	0	0	0	0	111	0	0
821	Bivalvia veliger		1444	556	2	0	0	0	667	111	0
855	spionid larva		333	0	0	0	0	0	0	0	0
880	scaleworm larva		0	3	0	0	0	0	0	0	0
899	pelagic polychaete		1	0	0	0	0	0	0	0	0
						mg Carbon per cubic meter					
			29	22	21	24	16	8	30	40	4

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
30479	79093	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
938	9	9.0	5.8	14.3	4.6	3.5	-	-1	ship

Station	9
Depth	9.0

Code	Name	Number per cubic meter
5	Acartia clausi F	0
6	Acartia clausi M	0
7	Acartia clausi C	0
8	Acartia clausi N	0
10	Acartia californiensis F	0
11	Acartia californiensis M	0
12	Acartia californiensis C	0
102	Eurytemora affinis C	400
194	copepodite (unknown)	200
197	copepod nauplius B	0
199	copepod nauplius	1200
200	Cyclopoida	1200
250	Harpacticoida	0
320	Isopoda	0
332	Neomysis mercedis	1400
340	Reptantia zoea	0
370	Natantia zoea	0
401	barnacle nauplius	0
402	barnacle cypris	0
560	fish larva	200
581	Clupea harengus	0
601	tintinnid spp.	0
602	Tintinnopsis sp. A	0
603	Tintinnopsis sp. B	0
605	Eutintinnus neriticus	0
630	coiled Foraminifera	0
700	Rotifera	0
701	Synchaeta sp.	200
801	Gastropod veliger	0
821	Bivalvia veliger	0
855	spionid larva	0
880	scaleworm larva	0
899	pelagic polychaete	0
		ug Carbon per cubic meter
		5

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
90579	79129	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1301	17	14.0	13.0	30.1	6.2	1.4	5	1	ship
1307	17	7.0	13.2	29.9	4.6	0.7	4	1	ship
1313	17	1.0	14.0	28.8	2.7	0.6	1	1	ship
1157	15	14.0	14.2	2.4	3.9	2.7	3	1	ship
1203	15	7.0	14.3	25.6	2.8	1.8	2	1	ship
1209	15	1.0	14.4	24.0	2.7	2.6	1	1	ship
1041	12	8.0	15.4	19.7	16.0	36.7	5	1	ship
1044	12	4.0	15.7	18.1	9.6	16.0	5	1	ship
1048	12	1.0	15.9	16.6	4.3	4.0	1	1	ship

		Station	17			15			12	
		Depth	14.0	7.0	1.0	14.0	7.0	1.0	8.0	4.0	1.0
Code	Name		Number per cubic meter								
5	Acartia clausi F		1000	3000	0	666	1333	0	2222	2777	2000
6	Acartia clausi M		0	0	0	333	1333	0	1666	2777	333
7	Acartia clausi C		4000	4000	0	5000	6333	7000	1111	1666	32666
8	Acartia clausi N		3000	333	5666	3666	11333	3333	0	0	18666
100	Eurytemora affinis F		0	0	0	0	0	0	0	0	0
101	Eurytemora affinis M		0	0	0	0	0	0	0	0	0
102	Eurytemora affinis C		0	0	0	0	0	0	0	0	0
103	Eurytemora affinis N		0	0	0	0	0	0	0	0	0
161	Pseudodiaptomus eurybalinus M		0	0	0	0	333	0	0	0	0
194	copepodite (unknown)		0	0	0	0	0	0	555	0	0
196	copepod nauplius A		0	0	0	0	333	0	0	0	0
200	Cyclopoida		0	0	0	0	333	0	0	0	0
220	Corycaeus sp.		0	0	0	333	0	333	0	0	0
250	Harpacticoida		1000	666	666	1000	666	333	0	0	1333
332	Neomysis mercedis		0	0	0	0	0	0	0	0	0
333	Neomysis mercedis juv.		0	0	0	0	0	0	0	0	0
401	barnacle nauplius		0	333	0	1000	1333	1000	0	0	14666
402	barnacle cypris		0	0	333	0	333	0	0	0	0
540	Larvacea		0	0	666	0	0	0	0	0	0
602	Tintinnopsis sp. A		333	0	333	2000	1000	13666	1666	32222	3000
603	Tintinnopsis sp. B		0	0	0	0	0	10000	0	0	88333
604	Tintinnid sp.C		0	0	1000	0	0	333	0	0	0
630	coiled Foraminifera		0	0	0	333	0	0	0	0	0
700	Rotifera		333	0	333	0	0	1000	0	0	2000
801	Gastropod veliger		0	0	0	0	333	333	0	0	0
821	Bivalvia veliger		0	333	0	333	666	1333	0	0	0
855	spionid larva		333	1000	1666	666	1666	1333	0	0	0
880	scaleworm larva		0	0	333	333	0	0	0	0	0
			as Carbon per cubic meter								
			8	15	7	12	22	12	11	14	58

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
90579	79129	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
903	9	14.0	15.7	9.8	8.4	13.7	5	0	ship
936	9	7.0	15.7	8.3	8.9	10.5	5	0	ship
942	9	1.0	15.8	7.1	7.1	4.7	0	0	ship
820	6	9.0	16.1	2.5	11.4	11.8	5	-1	ship
826	6	5.0	16.1	2.3	11.0	11.5	5	-1	ship
832	6	1.0	16.1	2.2	11.3	12.8	5	-1	ship
652	3	10.0	16.3	0.5	10.3	11.8	5	-1	ship
658	3	5.0	16.3	0.5	10.5	11.8	5	-1	ship
703	3	1.0	16.3	0.5	9.8	7.9	5	-1	ship

		Station		9			6			3	
		Depth	14.0	7.0	1.0	9.0	5.0	1.0	10.0	5.0	1.0
Code	Name					Number per cubic meter					
5	Acartia clausi F		7000	10666	333	0	0	0	0	0	0
6	Acartia clausi M		666	333	0	0	0	0	0	0	0
7	Acartia clausi C		0	0	333	0	0	0	0	0	0
8	Acartia clausi N		666	666	2000	0	0	0	0	0	0
100	Eurytemora affinis F		0	666	0	1333	1000	0	2000	333	666
101	Eurytemora affinis M		0	666	0	666	333	0	666	0	666
102	Eurytemora affinis C		333	666	0	5666	6666	4000	3000	1000	3000
103	Eurytemora affinis N		0	0	0	666	666	2000	0	0	0
161	Pseudodiaptomus eurybalinus M		0	0	0	0	0	0	0	0	0
194	copepodite (unknown)		0	0	0	0	0	0	0	0	0
196	copepod nauplius A		0	0	0	0	0	0	0	0	0
200	Cyclopoida		0	0	0	0	0	0	0	0	0
220	Corycaeus sp.		0	0	0	0	0	0	0	0	0
250	Harpacticoida		0	0	333	333	666	333	0	0	0
332	Neomysis mercedis		0	333	0	0	0	0	0	333	0
333	Neomysis mercedis juv.		0	0	0	333	0	0	333	0	0
401	barnacle nauplius		333	2000	666	0	0	0	0	0	0
402	barnacle cypris		0	0	0	0	0	0	0	0	0
540	Larvacea		0	0	0	0	0	0	0	0	0
602	Tintinnopsis sp. A		1333	2666	0	0	0	0	0	0	0
603	Tintinnopsis sp. B		0	0	0	0	0	0	0	0	0
604	Tintinnid sp.C		0	0	0	0	0	0	0	0	0
630	coiled Foraminifera		0	0	0	0	0	0	0	0	0
700	Rotifera		0	0	0	0	0	0	0	0	0
801	Gastropod veliger		0	0	0	0	0	0	0	0	0
821	Bivalvia veliger		0	0	0	0	0	0	0	0	0
855	spionid larva		0	333	0	0	0	0	0	0	0
880	scaleworm larva		0	0	0	0	0	0	0	0	0
						mg Carbon per cubic meter					
			21	38	3	12	12	5	11	2	7

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
50679	79156	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1446	17	14.0	15.9	27.1	3.4	0.8	-	1	lab
1452	17	6.0	17.1	25.3	3.4	0.8	-	1	lab
1458	17	1.0	18.0	24.1	3.2	0.8	-	1	lab
1345	15	12.0	16.4	25.6	3.4	1.3	-	1	lab
1353	15	6.0	17.3	23.9	3.4	1.4	-	1	lab
1400	15	1.0	19.2	21.4	3.2	1.0	-	1	lab
1225	12	9.0	17.2	23.6	4.5	1.0	-	1	lab
1223	12	4.0	17.3	23.3	4.5	1.0	-	1	lab
1237	12	1.0	19.4	18.2	14.8	1.8	-	1	lab

		Station		17			15			12	
		Depth	14.0	6.0	1.0	12.0	6.0	1.0	9.0	4.0	1.0
Code	Name					Number per cubic meter					
8	Acartia clausi N		4000	13200	3200	7000	9933	2355	8178	8089	6622
10	Acartia californiensis F		133	0	0	0	200	44	356	1	0
11	Acartia californiensis M		67	0	67	0	0	44	267	0	0
12	Acartia californiensis C		1000	1667	600	5556	3933	489	7289	1511	2044
162	Pseudodiaptomus eurybalinus C		0	0	0	0	0	2	0	0	0
200	Cyclopoida		67	133	1	111	0	44	89	356	0
250	Harpacticoida		667	533	400	556	533	178	267	267	444
340	Reptantia zoea		4	1	2	0	0	0	1	0	0
370	Natantia zoea		3	8	1	5	2	0	3	0	2
401	barnacle nauplius		1533	1267	400	1667	1333	311	1067	1156	29
402	barnacle cypris		1	0	0	0	33	0	13	0	9
551	Engraulis mordax egg		0	0	0	0	0	5	0	0	4
559	other fish egg		27	0	0	0	0	0	0	5	0
602	Tintinnopsis sp. A		0	0	0	222	67	0	0	800	89
604	Tintinnid sp.C		1200	600	667	444	266	0	267	0	0
605	Eutintinnus neriticus		0	0	0	222	0	0	0	356	44
630	coiled Foraminifera		0	0	0	111	0	0	0	0	0
701	Synchaeta sp.		1333	8933	3333	0	1067	267	267	711	400
702	Synchaeta sp. egg		133	733	200	0	67	0	0	89	44
801	Gastropod veliger		200	333	0	0	0	0	178	89	89
821	Bivalvia veliger		333	67	0	111	200	133	178	0	0
851	polychaete trochophore		0	0	0	0	0	0	0	0	44
855	spionid larva		200	7067	3133	667	4133	178	622	444	89
880	scaleworm larva		67	5	67	2	133	0	2	89	0
						ug Carbon per cubic meter					
			6	22	10	10	17	2	12	6	3

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
10079	79191	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1541	17	14.0	14.4	31.6	7.7	0.9	5	1	lab
1547	17	7.0	15.1	31.2	6.8	0.7	4	1	lab
1553	17	1.0	15.6	30.9	5.5	0.7	2	1	lab
1432	15	12.0	16.9	29.5	2.3	1.1	3	1	lab
1439	15	6.0	17.2	29.1	2.0	1.2	3	1	lab
1445	15	1.0	17.4	28.7	2.5	1.1	5	1	lab
1255	12	9.0	19.0	24.0	1.0	1.1	5	1	lab
1302	12	5.0	19.4	23.0	1.2	3.2	5	1	lab
1307	12	1.0	20.5	20.2	3.2	1.3	2	1	lab

		Station		17			15			12	
		Depth	14.0	7.0	1.0	12.0	6.0	1.0	9.0	5.0	1.0
Code	Name					Number per cubic meter					
8	Acartia clausi M		64444	3778	5000	1556	1000	1444	0	778	21000
10	Acartia californiensis F		556	0	0	778	0	0	1111	778	0
11	Acartia californiensis M		222	0	0	222	0	0	444	667	0
12	Acartia californiensis C		3333	1667	1222	3111	2333	778	1889	1333	3000
143	Sinocalanus dorii F		0	0	0	0	0	0	0	0	0
144	Sinocalanus dorii M		0	0	0	0	0	0	0	0	0
145	Sinocalanus dorii C		0	0	0	0	0	0	0	0	0
162	Pseudodiaptomus eurybalinus C		0	0	0	1	0	0	0	0	0
194	copepodite (unknown)		0	0	0	0	0	0	0	0	0
199	copepod nauplius		0	0	0	0	0	0	0	0	0
200	Cyclopoida		0	0	0	222	333	0	111	0	111
250	Harpacticoida		1111	556	556	1111	1000	444	111	556	889
300	Amphipoda		0	0	0	0	0	0	1	0	0
333	Neomysis mercedis Juv.		0	0	0	0	0	0	0	0	0
340	Reptantia zoea		1	1	0	7	5	4	0	0	0
370	Natantia zoea		0	0	0	1	2	1	0	0	0
401	barnacle nauplius		1333	2778	778	889	1000	19	556	333	2222
402	barnacle cypris		6	0	4	15	40	0	0	0	25
551	Engraulis mordax egg		8	5	0	4	21	13	9	0	38
559	other fish egg		0	0	0	0	0	0	0	8	0
602	Tintinnopsis sp. A		0	0	0	0	0	0	333	0	0
603	Tintinnopsis sp. B		0	0	0	0	0	0	0	0	0
604	Tintinnid sp.C		2111	5889	3444	556	2000	1222	0	0	0
630	coiled Foraminifera		333	0	0	111	0	0	1222	0	1
681	flatworm sp. A		0	0	0	0	3	7	0	0	0
700	Rotifera		0	0	0	0	0	0	0	0	0
701	Synchaeta sp.		556	778	556	333	0	667	0	0	778
702	Synchaeta sp. egg		0	111	0	0	0	0	0	0	0
801	Gastropod veliger		111	111	0	444	333	111	333	111	0
821	Bivalvia veliger		444	0	0	0	111	333	0	333	333
851	Polychaete trochophore		111	111	0	0	0	333	0	0	0
855	spionid larva		1333	1222	8666	2778	4333	2444	111	556	0
880	scaleworm larva		0	0	0	333	0	0	0	0	0
						mg Carbon per cubic meter					
			18	10	23	16	16	8	7	7	9

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
10079	79191	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1144	9	14.0	19.8	11.8	16.9	6.3	5	0	ship
1148	9	7.0	19.9	11.6	17.6	6.4	5	0	ship
1158	9	1.0	19.9	11.0	17.6	4.1	3	0	ship
1037	6	9.0	20.5	5.6	33.5	7.9	5	-1	ship
1041	6	5.0	20.5	5.6	33.5	7.8	5	-1	ship
1047	6	1.0	20.6	5.6	33.5	8.3	5	-1	ship
932	3	8.0	20.4	2.5	18.1	8.6	5	-1	ship
939	3	4.0	20.4	2.4	16.9	8.0	5	-1	ship
946	3	1.0	20.3	2.2	13.8	7.0	5	-1	ship

		Station		9			6			3	
		Depth	14.0	7.0	1.0	9.0	5.0	1.0	8.0	4.0	1.0
Code	Name					Number per cubic meter					
8	Acartia clausi N		0	667	1667	2778	417	833	0	0	0
10	Acartia californiensis F		0	4667	0	0	0	0	0	0	0
11	Acartia californiensis M		3333	667	667	0	0	0	0	0	0
12	Acartia californiensis C		2000	0	1000	0	0	0	0	0	0
143	Sinocalanus dorii F		0	667	0	556	833	1250	2000	1667	1333
144	Sinocalanus dorii M		0	0	0	1111	1667	833	2778	2778	1667
145	Sinocalanus dorii C		0	1333	0	2778	2476	1250	1667	2778	2000
162	Pseudodiaptomus eurybalinus C		0	0	0	0	0	0	0	0	0
194	copepodite (unknown)		0	0	0	0	0	0	333	0	1333
199	copepod nauplius		0	0	0	0	0	0	0	333	0
200	Cyclopoida		0	0	0	0	0	0	0	0	0
250	Harpacticoida		0	0	1000	556	0	0	333	0	0
300	Amphipoda		0	0	0	0	0	0	0	0	0
333	Neomysis mercedis juv.		0	0	0	0	1	0	0	0	0
340	Reptantia zoea		0	0	0	0	417	0	0	0	0
370	Natantia zoea		0	0	0	0	0	0	0	0	0
401	barnacle nauplius		3333	11333	9667	6111	2476	2476	0	0	333
402	barnacle cypris		1333	2000	1000	0	833	0	0	0	0
551	Engraulis mordax egg		0	0	0	0	0	0	0	0	0
559	other fish egg		0	0	0	0	0	0	0	0	0
602	Tintinnopsis sp. A		0	0	0	0	0	0	0	0	0
603	Tintinnopsis sp. B		1333	1333	333	0	0	0	0	0	0
604	Tintinnid sp.C		0	0	0	0	0	0	0	0	0
630	coiled Foraminifera		0	0	0	0	0	0	0	333	0
681	flatworm sp. A		0	0	0	0	0	0	0	0	0
700	Rotifera		0	0	0	556	0	0	0	0	0
701	Synchaeta sp.		0	0	0	0	0	0	0	0	0
702	Synchaeta sp. egg		0	0	0	0	0	0	0	0	0
801	Gastropod veliger		0	0	0	0	0	0	0	0	0
821	Bivalvia veliger		667	0	0	0	0	0	0	0	0
851	polychaete trochophore		0	0	0	0	0	0	0	0	0
855	spionid larva		2667	1333	0	1111	417	0	0	0	0
880	scaleworm larva		0	0	0	0	0	0	0	0	0
						mg Carbon per cubic meter					
			21	48	20	32	30	23	39	38	31

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
140879	79226	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1609	17	9.0	16.4	31.5	3.4	0.7	1	1	ship
1615	17	5.0	16.4	31.3	2.6	0.7	1	1	ship
1621	17	1.0	16.6	31.0	2.3	0.7	1	1	ship
1452	15	10.0	18.5	28.4	1.3	0.8	1	1	ship
1458	15	6.0	18.0	28.0	1.3	0.8	1	1	ship
1504	15	1.0	17.8	27.0	1.3	0.8	1	1	ship
1328	12	9.0	19.1	23.7	2.0	1.3	1	0	ship
1334	12	5.0	19.1	23.7	2.0	1.3	1	0	ship
1340	12	1.0	20.0	20.0	2.0	0.9	1	0	ship

		Station		17			15			12	
		Depth	9.0	5.0	1.0	10.0	6.0	1.0	9.0	5.0	1.0
Code	Name					Number per cubic meter					
7	Acartia clausi C		0	1000	533	0	0	0	0	0	0
8	Acartia clausi N		0	5200	1067	0	0	0	0	0	0
10	Acartia californiensis F		0	0	0	2400	0	0	533	1667	0
11	Acartia californiensis M		0	0	0	800	533	0	1067	2000	0
11	Acartia californiensis M		0	0	0	0	0	0	0	0	0
12	Acartia californiensis C		3667	400	0	5333	10933	2000	1067	4333	8533
13	Acartia californiensis N		6667	0	0	3200	22400	8333	267	0	104000
62	Paracalanus parvus C		0	200	0	0	0	0	0	0	0
100	Eurytemora affinis F		0	0	0	0	0	0	0	0	0
101	Eurytemora affinis M		0	0	0	0	0	0	0	0	0
102	Eurytemora affinis C		0	0	0	0	0	0	0	0	0
145	Sinocalanus dorii C		0	0	0	0	0	0	0	0	0
199	copepod nauplius		0	0	0	0	0	0	0	0	0
210	Oithona spp.		0	200	0	0	0	0	0	0	0
220	Corycaeus sp.		0	200	0	0	0	0	0	0	0
250	Harpacticoida		0	800	1067	0	267	0	533	0	0
280	Harpacticoid sp.A		0	0	0	0	0	0	0	0	267
333	Neomysis mercedis juv.		0	0	0	0	0	0	0	0	0
401	barnacle nauplius		0	200	0	0	267	1000	0	667	3733
402	barnacle cypris		0	0	0	267	0	0	267	0	0
440	Cladocera		0	200	267	0	0	0	0	0	0
551	Engraulis mordax egg		0	0	0	0	0	0	0	0	0
602	Tintinnopsis sp. A		0	0	0	267	0	0	20533	9000	267
603	Tintinnopsis sp. B		0	0	0	0	0	0	0	0	0
604	Tintinnid sp.C		667	0	267	0	0	0	0	0	0
630	coiled Foraminifera		0	0	0	0	0	667	0	0	0
681	flatworm sp. A		667	800	267	267	267	667	533	667	0
682	flatworm sp. B		0	200	0	0	0	0	267	0	0
700	Rotifera		0	0	0	0	0	0	0	0	0
701	Synchaeta sp.		0	200	0	0	0	667	0	0	0
740	Nematoda		0	0	0	0	0	0	0	0	0
751	Ectoprocta larva		0	200	0	0	0	0	0	0	0
801	Gastropod veliger		333	200	0	533	1067	0	533	0	0
821	Bivalvia veliger		1000	0	533	0	0	1666	0	333	0
851	polychaete trochophore		333	400	0	800	1068	333	533	1000	0
855	spionid larva		1000	1600	533	1066	1600	5000	800	1667	267
880	scaleworm larva		0	0	0	0	0	333	267	0	0

	Station		17			15			12	
	Depth	9.0	5.0	1.0	10.0	6.0	1.0	9.0	5.0	1.0
Code	Name				Number per cubic meter					
881	Harmothoe imbricata	0	0	0	800	0	0	0	0	0
					mg Carbon per cubic meter					
		8	9	4	20	18	18	10	19	24

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
140879	79226	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1146	9	11.0	19.6	18.3	2.7	1.5	1	0	ship
1152	9	6.0	19.6	17.9	2.0	1.3	1	0	ship
1158	9	1.0	19.8	16.2	2.7	1.1	1	0	ship
951	6	8.0	19.8	10.9	6.3	2.3	2	1	ship
957	6	4.0	19.8	10.6	6.3	1.6	3	1	ship
1003	6	1.0	19.9	11.0	7.1	1.7	2	1	ship
834	3	9.0	21.0	3.3	42.0	10.3	4	1	ship
840	3	5.0	21.0	3.2	39.5	9.0	5	1	ship
848	3	1.0	21.1	3.0	34.3	6.7	4	1	ship

		Station		9			6			3	
		Depth	11.0	6.0	1.0	8.0	4.0	1.0	9.0	5.0	1.0
Code	Name					Number per cubic meter					
7	Acartia clausi C		0	0	0	0	0	0	0	0	0
8	Acartia clausi N		0	0	0	0	0	0	0	0	0
10	Acartia californiensis F		333	1600	0	1333	0	200	0	0	0
11	Acartia californiensis M		667	2667	400	0	2600	200	0	0	0
11	Acartia californiensis M		0	0	0	0	600	0	0	0	0
12	Acartia californiensis C		4000	4267	2000	533	600	600	0	0	0
13	Acartia californiensis N		0	267	8200	1867	1200	1800	0	0	0
62	Paracalanus parvus C		0	0	0	0	0	0	0	0	0
100	Eurytemora affinis F		0	0	0	0	0	0	0	1000	0
101	Eurytemora affinis M		0	0	0	0	0	0	333	1000	0
102	Eurytemora affinis C		0	0	0	0	0	0	1667	0	0
145	Sinocalanus dorii C		0	0	0	0	0	0	0	0	333
199	copepod nauplius		0	0	0	0	0	0	1000	667	1667
210	Oithona spp.		0	0	0	0	0	0	0	0	0
220	Corycaeus sp.		0	0	0	0	0	0	0	0	0
250	Harpacticoida		667	0	200	533	600	0	0	333	333
280	Harpacticoid sp.A		0	0	0	0	0	0	0	0	0
333	Neomysis mercedis juv.		0	0	0	0	0	0	333	333	0
401	barnacle nauplius		3333	2667	1200	3200	8400	2600	1000	0	1000
402	barnacle cypris		0	533	0	0	0	200	0	0	0
440	Cladocera		0	0	0	0	0	0	0	0	0
551	Engraulis mordax egg		333	0	200	0	0	0	0	0	0
602	Tintinnopsis sp. A		35000	14933	1800	800	800	200	0	0	0
603	Tintinnopsis sp. B		0	0	0	0	0	400	0	0	0
604	Tintinnid sp.C		0	0	0	0	0	0	0	0	0
630	coiled Foraminifera		0	0	0	0	0	0	0	0	0
681	flatworm sp. A		0	0	0	0	0	0	0	0	0
682	flatworm sp. B		0	0	0	0	0	0	0	0	0
700	Rotifera		0	533	0	0	0	0	0	0	0
701	Synchaeta sp.		0	0	0	0	0	0	0	0	0
740	Nematoda		0	0	0	0	0	0	333	0	0
751	Ectoprocta larva		0	0	0	0	0	0	0	0	0
801	Gastropod veliger		1000	533	0	0	200	0	0	0	0
821	Bivalvia veliger		667	1867	260	267	600	800	0	0	0
851	polychaete trochophore		0	0	0	0	0	0	0	0	0
855	spionid larva		0	0	0	0	0	200	0	0	0
880	scaleworm larva		0	0	0	0	400	0	0	0	0

	Station		9			6			3	
	Depth	11.0	6.0	1.0	8.0	4.0	1.0	9.0	5.0	1.0
Code	Name				Number per cubic meter					
881	Harmothoe imbricata	0	0	0	0	0	0	0	0	0
					mg Carbon per cubic meter					
		13	18	5	10	20	7	5	6	3

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
180979	79261	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1358	17	14.0	15.9	32.4	3.5	0.7	2	-1	ship
1404	17	7.0	16.2	32.2	4.0	0.5	1	-1	ship
1410	17	1.0	17.1	31.8	4.5	0.5	1	-1	ship
1257	15	15.0	18.3	30.5	2.2	0.6	2	1	ship
1303	15	7.0	18.8	29.8	2.0	0.7	2	1	ship
1309	15	1.0	19.3	29.4	2.3	0.8	1	1	ship
1136	12	9.0	20.2	26.4	0.0	1.4	2	1	ship
1142	12	5.0	20.6	25.9	0.8	1.0	1	1	ship
1148	12	1.0	20.9	25.4	3.2	0.6	1	1	ship

		Station		17			15			12	
		Depth	14.0	7.0	1.0	15.0	7.0	1.0	9.0	5.0	1.0
Code	Name					Number per cubic meter					
5	Acartia clausi F		0	0	0	0	0	0	0	0	0
7	Acartia clausi C		3000	533	2000	2667	1000	800	2333	1333	8800
8	Acartia clausi N		333	267	9333	0	1400	0	0	0	0
10	Acartia californiensis F		0	0	0	0	0	0	1000	800	0
11	Acartia californiensis M		0	0	0	0	0	0	1000	0	0
12	Acartia californiensis C		2333	0	0	800	0	600	6667	7467	35600
13	Acartia californiensis N		333	0	0	1333	0	4000	3333	4267	3400
60	Paracalanus parvus F		333	0	0	0	0	0	0	0	0
61	Paracalanus parvus M		333	0	0	0	0	0	0	0	0
62	Paracalanus parvus C		333	0	333	0	0	0	0	267	0
100	Eurytemora affinis F		0	0	0	0	0	0	0	0	0
101	Eurytemora affinis M		0	0	0	0	0	0	0	0	0
102	Eurytemora affinis C		0	0	0	0	0	0	0	0	0
144	Sinocalanus dorii M		0	0	0	0	0	0	0	0	0
196	copepod nauplius A		0	0	0	267	400	600	0	0	0
199	copepod nauplius		0	533	1000	0	0	0	0	0	0
250	Harpacticoida		0	1067	1333	800	600	1200	333	0	0
280	Harpacticoid sp.A		0	0	0	1333	400	0	0	0	200
281	Harpacticoid A N		0	0	0	0	0	200	0	267	0
300	Amphipoda		0	0	0	0	0	0	0	0	0
401	barnacle nauplius		0	0	333	0	0	800	333	267	600
402	barnacle cypris		0	0	0	0	0	0	0	0	0
440	Cladocera		0	0	0	0	200	0	0	0	0
602	Tintinnopsis sp. A		0	0	0	0	0	0	333	0	600
603	Tintinnopsis sp. B		0	0	0	0	0	400	0	0	200
604	Tintinnid sp.C		0	533	14000	0	200	1000	0	0	4400
681	flatworm sp. A		0	0	0	267	200	200	0	0	0
682	flatworm sp. B		0	0	333	0	0	0	0	0	0
700	Rotifera		0	0	0	0	0	0	1000	0	1200
701	Synchaeta sp.		0	800	8333	533	0	4000	0	0	200
750	Ectoprocta (Bryozoa)		333	0	0	0	0	0	0	0	0
801	Gastropod veliger		0	533	0	267	200	0	0	0	0
821	Bivalvia veliger		333	533	0	533	200	1200	333	1600	200
851	polychaete trochophore		1	0	0	0	0	0	333	0	0
855	spionid larva		333	267	2333	533	1000	3600	1000	267	0
880	scaleworm larva		0	0	0	0	0	0	0	0	0
						mg Carbon per cubic meter					
			7	3	11	7	5	13	16	11	37

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
180979	79261	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1013	9	14.0	21.2	16.8	6.6	2.4	3	-1	ship
1019	9	7.0	21.2	15.0	8.1	2.2	2	-1	ship
1025	9	1.0	21.0	14.0	3.4	2.0	2	-1	ship
852	6	8.0	21.6	7.4	37.6	6.9	3	-1	ship
858	6	4.0	21.6	7.2	37.5	6.3	3	-1	ship
904	6	1.0	21.6	7.2	36.8	6.0	2	-1	ship
743	3	8.0	21.8	3.6	26.7	7.2	4	-1	ship
749	3	5.0	21.8	3.6	26.5	6.5	4	-1	ship
755	3	1.0	21.8	3.2	23.4	6.2	3	-1	ship

		Station		9			6			3	
		Depth	14.0	7.0	1.0	8.0	4.0	1.0	8.0	5.0	1.0
Code	Name					Number per cubic meter					
5	Acartia clausi F		0	0	0	0	667	0	0	0	0
7	Acartia clausi C		0	0	0	0	333	0	0	0	0
8	Acartia clausi N		0	0	0	0	0	0	0	0	0
10	Acartia californiensis F		1600	3000	0	0	333	0	0	0	0
11	Acartia californiensis M		1067	1667	0	0	0	0	0	0	0
12	Acartia californiensis C		4533	12667	800	267	0	0	0	0	0
13	Acartia californiensis N		1067	4000	4000	0	0	0	0	0	0
60	Paracalanus parvus F		0	0	0	0	0	0	0	0	0
61	Paracalanus parvus M		0	0	0	0	0	0	0	0	0
62	Paracalanus parvus C		0	0	0	0	0	0	0	0	0
100	Eurytemora affinis F		0	0	0	800	0	0	333	0	0
101	Eurytemora affinis M		0	0	0	0	0	0	333	556	0
102	Eurytemora affinis C		0	0	0	1067	0	0	1000	278	0
144	Sinocalanus dorii M		0	0	0	0	0	0	0	278	0
196	copepod nauplius A		0	0	0	0	0	0	0	0	0
199	copepod nauplius		0	0	0	1067	1000	0	333	0	267
250	Harpacticoida		0	0	200	0	1000	267	333	0	267
280	Harpacticoid sp.A		0	0	0	0	0	0	0	0	0
281	Harpacticoid A N		0	0	0	0	0	0	0	0	0
300	Amphipoda		267	0	0	0	0	0	0	0	0
401	barnacle nauplius		267	1667	1000	5073	1333	1333	1667	556	533
402	barnacle cypris		0	0	0	0	0	0	0	0	800
440	Cladocera		0	0	0	0	0	0	0	0	0
602	Tintinnopsis sp. A		2933	6667	400	0	333	0	0	0	0
603	Tintinnopsis sp. B		0	0	200	0	0	0	0	0	0
604	Tintinnid sp.C		0	0	0	0	0	0	0	0	0
681	flatworm sp. A		0	0	0	0	0	0	0	0	0
682	flatworm sp. B		0	0	0	0	0	0	0	0	0
700	Rotifera		0	0	200	0	0	0	0	0	0
701	Synchaeta sp.		0	0	0	267	0	0	0	0	0
750	Ectoprocta (Bryozoa)		0	0	0	0	0	0	0	0	0
801	Gastropod veliger		0	0	0	0	333	0	0	0	0
821	Bivalvia veliger		267	333	0	0	0	0	0	0	0
851	polychaete trochophore		0	0	0	0	0	0	0	0	0
855	spionid larva		0	333	0	0	0	0	0	0	267
880	scaleworm larva		0	0	0	0	333	0	0	0	0
						mg Carbon per cubic meter					
			11	25	3	12	7	2	6	4	3

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
90180	80009	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
736	17	7.0	11.9	29.7	0.6	0.9	0	-1	ship
742	17	4.0	11.9	29.7	0.6	0.9	0	-1	ship
748	17	1.0	11.3	25.4	0.6	0.7	0	-1	ship
905	15	9.0	11.4	26.2	0.4	1.0	0	-1	ship
912	15	5.0	10.8	20.6	0.4	1.1	0	-1	ship
919	15	1.0	10.5	15.9	0.4	1.3	0	-1	ship
1024	13	9.0	11.3	24.8	0.7	1.1	0	-1	ship
1031	13	5.0	11.2	23.6	0.8	0.9	0	-1	ship
1038	13	1.0	10.6	16.8	0.8	1.1	0	-1	ship

		Station		17			15			13	
		Depth	7.0	4.0	1.0	9.0	5.0	1.0	9.0	5.0	1.0
Code	Name					Number per cubic meter					
5	Acartia clausi F		285	0	0	917	9400	5200	800	533	587
6	Acartia clausi M		800	0	0	250	2200	0	667	533	293
7	Acartia clausi C		2000	400	100	917	4400	4000	4733	7067	1613
8	Acartia clausi N		0	0	0	417	3200	3600	8067	6000	21413
10	Acartia californiensis F		115	0	0	0	0	0	0	0	0
28	Tortanus discaudatus M		0	0	0	0	0	0	1	0	0
30	Calanus pacificus F		0	0	0	0	0	0	3	0	0
31	Calanus pacificus M		0	0	0	0	1	0	5	1	0
32	Calanus pacificus C		1	0	0	0	0	0	2	1	0
60	Paracalanus parvus F		600	100	33	83	0	0	67	0	0
61	Paracalanus parvus M		600	0	0	0	0	0	0	0	0
62	Paracalanus parvus C		600	0	0	83	0	0	400	400	0
63	Paracalanus parvus N		0	0	0	0	600	0	0	0	0
70	Pseudocalanus sp.A F		0	2	0	0	0	0	0	0	0
100	Eurytemora affinis F		0	0	0	0	0	0	0	0	0
101	Eurytemora affinis M		0	0	0	0	0	0	0	0	0
102	Eurytemora affinis C		0	0	0	0	0	0	0	0	0
103	Eurytemora affinis N		0	0	0	0	0	0	0	0	0
143	Sinocalanus dorii F		0	0	0	0	0	0	0	0	0
144	Sinocalanus dorii M		0	0	0	0	0	0	0	0	0
145	Sinocalanus dorii C		0	0	0	0	0	0	0	0	0
191	Epilabidocera longipedata M		0	0	0	0	0	0	2	0	0
192	Epilabidocera longipedata C		0	0	0	0	0	0	1	0	0
195	copepod nauplius D		400	0	0	0	0	0	0	0	0
196	copepod nauplius A		0	0	33	0	0	0	0	0	0
197	copepod nauplius B		0	0	0	0	0	0	0	133	0
198	copepod nauplius C		0	0	0	0	0	0	0	0	0
199	copepod nauplius		0	0	0	0	0	0	0	0	0
200	Cyclopoida		0	0	0	0	0	0	0	0	0
210	Oithona spp.		1200	100	100	0	600	400	0	400	0
213	Oithona spinirostris		0	100	0	0	0	0	0	0	0
220	Corycaeus sp.		0	1	0	0	200	0	0	0	0
250	Harpacticoida		4400	500	67	83	800	0	200	267	0
270	Microsetella sp.		0	100	1	0	0	0	0	0	0
300	Amphipoda		0	0	0	0	0	0	1	0	0
331	Mysid juvenile		0	0	0	0	1	0	0	0	0
340	Reptantia zoea		0	1	0	0	0	0	0	1	0

	Station		17			15			13	
	Depth	7.0	4.0	1.0	9.0	5.0	1.0	9.0	5.0	1.0
Code	Name	Number per cubic meter								
345	Grapsid zoea	0	0	2	1	200	0	0	0	0
375	Caridean zoea	0	1	0	2	1	0	1	0	0
401	barnacle nauplius	0	0	33	0	200	1200	0	0	0
420	Ostracoda	0	0	0	0	0	0	0	0	0
440	Cladocera	0	0	0	0	0	0	0	0	0
520	Chaetognatha	0	1	0	0	3	0	0	0	0
521	Sagitta spp.	1	0	0	0	0	0	3	0	0
560	fish larva	0	0	0	1	2	0	3	0	0
570	Gobiidae larva	0	0	0	0	0	0	0	0	0
581	Clupea harengus	3	7	0	9	3	0	3	8	0
602	Tintinnopsis sp. A	0	100	33	0	0	400	67	0	0
603	Tintinnopsis sp. B	0	0	0	0	2000	0	10667	4256	0
605	Eutintinnus neriticus	0	0	0	0	200	400	0	0	0
660	Hydrozoa	0	0	0	0	1	0	1	0	0
666	Polygorchis sp.	0	0	0	0	0	0	1	2	0
681	flatworm sp. A	0	1	33	0	0	0	0	0	0
682	flatworm sp. B	0	0	0	0	0	0	0	0	0
700	Rotifera	0	0	0	0	0	0	0	0	0
701	Synchaeta sp.	0	0	0	0	0	0	67	0	0
740	Nematoda	0	0	0	0	0	0	0	0	0
750	Ectoprocta (Bryozoa)	400	200	1200	3583	400	0	333	133	0
801	Gastropod veliger	0	0	0	0	0	0	0	1	0
821	Bivalvia veliger	1600	300	0	167	6600	400	200	667	0
855	spionid larva	0	0	33	0	400	0	0	0	0
880	scaleworm larva	0	0	0	167	0	0	0	0	0
901	Insecta	0	0	0	0	0	0	0	0	0
		mg Carbon per cubic meter								
		14	1	0	4	38	20	9	10	5

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
90180	80009	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1221	9	10.0	10.1	10.7	0.9	2.9	1	-1	ship
1228	9	5.0	10.1	10.3	0.9	2.6	1	-1	ship
1235	9	1.0	10.0	7.5	1.0	2.4	0	-1	ship
1410	6	6.0	9.7	4.5	0.9	3.3	1	-1	ship
1416	6	3.0	9.7	2.5	0.9	4.2	1	-1	ship
1422	6	1.0	9.6	0.8	0.8	4.6	0	-1	ship
1538	3	9.0	9.9	0.1	0.9	4.8	3	-1	ship
1545	3	5.0	9.9	0.1	0.9	4.6	3	-1	ship
1551	3	1.0	9.9	0.1	1.2	4.4	3	-1	ship

		Station	9			6			3	
		Depth	10.0	5.0	1.0	6.0	3.0	1.0	9.0	5.0	1.0
Code	Name		Number per cubic meter								
5	Acartia clausi F		700	400	133	67	0	0	0	0	0
6	Acartia clausi M		500	600	67	0	0	0	0	0	0
7	Acartia clausi C		400	933	1533	0	0	0	0	0	0
8	Acartia clausi N		200	600	2333	0	0	0	0	0	0
10	Acartia californiensis F		0	0	0	0	0	0	0	0	0
28	Tortanus discaudatus M		0	0	0	0	0	0	0	0	0
30	Calanus pacificus F		0	0	0	0	0	0	0	0	0
31	Calanus pacificus M		0	0	0	0	0	0	0	0	0
32	Calanus pacificus C		0	0	0	0	0	0	0	0	0
60	Paracalanus parvus F		0	0	0	0	0	0	0	0	0
61	Paracalanus parvus M		0	0	0	0	0	0	0	0	0
62	Paracalanus parvus C		0	0	0	0	0	0	0	0	0
63	Paracalanus parvus N		0	0	0	0	0	0	0	0	0
70	Pseudocalanus sp.A F		0	0	0	0	0	0	0	0	0
100	Eurytemora affinis F		0	0	0	2800	100	73	100	0	0
101	Eurytemora affinis M		0	0	0	1667	400	0	0	0	0
102	Eurytemora affinis C		100	67	333	5733	1800	367	0	100	0
103	Eurytemora affinis N		0	0	67	267	1100	440	0	0	0
143	Sinocalanus dorii F		0	0	0	0	0	0	100	0	0
144	Sinocalanus dorii M		0	0	0	0	0	0	200	0	67
145	Sinocalanus dorii C		0	0	0	0	0	0	0	0	0
191	Epilabidocera longipedata M		0	0	0	0	0	0	0	0	0
192	Epilabidocera longipedata C		0	0	0	0	0	0	0	0	0
195	copepod nauplius D		0	0	0	0	0	0	0	0	0
196	copepod nauplius A		0	0	0	0	0	0	0	0	0
197	copepod nauplius B		0	0	0	0	0	0	0	0	0
198	copepod nauplius C		0	0	0	0	0	0	0	0	0
199	copepod nauplius		0	0	0	5667	900	807	0	1000	200
200	Cyclopoida		100	67	133	67	0	0	0	0	0
210	Oithona spp.		0	0	0	0	0	0	0	0	0
213	Oithona spinirostris		0	0	0	0	0	0	0	0	0
220	Corycaeus sp.		0	0	0	0	0	0	0	0	0
250	Harpacticoida		0	0	0	0	0	0	0	400	0
270	Microsetella sp.		0	0	0	0	0	0	0	0	0
300	Amphipoda		0	0	0	0	0	0	0	0	0
331	Mysid juvenile		0	0	0	0	0	0	0	0	0
340	Reptantia zoea		0	0	0	0	0	0	0	0	0

Code	Name	Station	9			6			3	
		Depth	10.0	5.0	1.0	6.0	3.0	1.0	9.0	5.0	1.0
			Number per cubic meter								
345	Grapsid zoea		0	0	0	0	0	0	0	0	0
375	Caridean zoea		0	0	0	0	0	0	0	0	0
401	barnacle nauplius		0	0	0	0	0	0	0	0	0
420	Ostracoda		0	0	0	0	100	0	100	100	0
440	Cladocera		0	0	0	67	100	0	100	0	133
520	Chaetognatha		0	0	0	0	0	0	0	0	0
521	Sagitta spp.		0	0	0	0	0	0	0	0	0
560	fish larva		0	0	0	0	0	0	0	0	0
570	Gobiidae larva		0	0	0	0	0	0	0	0	0
581	Clupea harengus		0	0	0	0	0	0	0	0	0
602	Tintinnopsis sp. A		0	0	0	0	0	0	0	0	0
603	Tintinnopsis sp. B		2000	1667	0	0	0	0	0	0	0
605	Eutintinnus neriticus		0	0	0	0	0	0	0	0	0
660	Hydrozoa		0	0	0	0	0	0	0	0	0
666	Polygorchis sp.		0	0	0	0	0	0	0	0	0
681	flatworm sp. A		0	0	0	0	0	0	0	0	0
682	flatworm sp. B		0	0	0	667	0	0	0	0	0
700	Rotifera		0	0	0	0	100	0	300	0	133
701	Synchaeta sp.		0	0	0	0	0	0	0	0	0
740	Nematoda		0	0	0	0	100	0	0	0	0
750	Ectoprocta (Bryozoa)		0	0	0	0	0	0	0	0	0
801	Gastropod veliger		0	0	0	0	0	0	0	0	0
821	Bivalvia veliger		1	0	0	0	0	0	0	0	0
855	spionid larva		0	0	0	0	0	0	0	0	0
880	scaleworm larva		0	0	0	0	0	0	0	0	0
901	Insecta		0	0	0	0	0	0	100	0	0
			mg Carbon per cubic meter								
			3	3	3	21	4	1	3	1	1

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
90180	80009	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1737	657	5.0	9.7	0.1	0.8	2.8	1	1	ship
1743	657	1.0	9.7	0.1	0.8	2.8	1	1	ship

	Station	657	
	Depth	5.0	1.0
Code	Name	Number per cubic meter	
5	Acartia clausi F	0	0
6	Acartia clausi M	0	0
7	Acartia clausi C	0	0
8	Acartia clausi N	0	0
10	Acartia californiensis F	0	0
28	Tortanus discaudatus M	0	0
30	Calanus pacificus F	0	0
31	Calanus pacificus M	0	0
32	Calanus pacificus C	0	0
60	Paracalanus parvus F	0	0
61	Paracalanus parvus M	0	0
62	Paracalanus parvus C	0	0
63	Paracalanus parvus N	0	0
70	Pseudocalanus sp.A F	0	0
100	Eurytemora affinis F	0	0
101	Eurytemora affinis M	0	0
102	Eurytemora affinis C	0	0
103	Eurytemora affinis N	0	0
143	Sinocalanus dorii F	0	44
144	Sinocalanus dorii M	0	0
145	Sinocalanus dorii C	0	0
191	Epilabidocera longipedata M	0	0
192	Epilabidocera longipedata C	0	0
195	copepod nauplius D	0	0
196	copepod nauplius A	0	0
197	copepod nauplius B	0	0
198	copepod nauplius C	0	0
199	copepod nauplius	5267	5016
200	Cyclopoida	0	176
210	Oithona spp.	0	0
213	Oithona spinirostris	0	0
220	Corycaeus sp.	0	0
250	Harpacticoida	600	440
270	Microsetella sp.	0	0
300	Amphipoda	0	0
331	Mysid juvenile	0	0
340	Reptantia zoea	0	0
345	Grapsid zoea	0	0
375	Caridean zoea	0	0
401	barnacle nauplius	0	0
420	Ostracoda	0	0
440	Cladocera	0	176
520	Chaetognatha	0	0
521	Sagitta spp.	0	0

		Station	657	
		Depth	5.0	1.0
Code	Name			Number per cubic meter
560	fish larva		0	0
570	Gobiidae larva		0	0
581	Clupea harengus		0	0
602	Tintinnopsis sp. A		0	0
603	Tintinnopsis sp. B		0	0
605	Eutintinnus neriticus		0	0
660	Hydrozoa		0	0
666	Polydorchis sp.		0	0
681	flatworm sp. A		0	0
682	flatworm sp. B		0	0
700	Rotifera		0	44
701	Synchaeta sp.		0	0
740	Nematoda		0	88
750	Ectoprocta (Bryozoa)		0	0
801	Gastropod veliger		0	0
821	Bivalvia veliger		0	0
855	spionid larva		0	0
880	scaleworm larva		0	0
901	Insecta		67	44
				mg Carbon per cubic meter
			1	2

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
90180	80009	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
805	302	2.0	10.4	15.7	0.7	1.5	0	-1	ship
830	306	3.0	10.9	11.1	0.7	1.9	0	-1	ship
900	312	2.0	10.4	11.3	2.0	2.7	0	0	ship

		Station	302	306	312
		Depth	2.0	3.0	2.0
Code	Name			Number per cubic meter	
5	Acartia clausi F		146	585	3058
6	Acartia clausi M		439	1171	1932
7	Acartia clausi C		146	5121	20764
8	Acartia clausi N		1171	1756	8692
30	Calanus pacificus F		0	4	0
31	Calanus pacificus M		0	1	0
32	Calanus pacificus C		0	3	0
61	Paracalanus parvus M		0	293	0
62	Paracalanus parvus C		2	439	0
100	Eurytemora affinis F		1	0	5
101	Eurytemora affinis M		1	1	6
102	Eurytemora affinis C		0	0	2
103	Eurytemora affinis N		0	0	0
143	Sinocalanus dorii F		0	0	0
144	Sinocalanus dorii M		0	0	0
145	Sinocalanus dorii C		0	0	0
191	Epilabidocera longipedata M		1	0	0
192	Epilabidocera longipedata C		0	1	0
199	copepod nauplius		0	0	0
200	Cyclopoida		0	0	0
210	Oithona spp.		0	0	0
250	Harpacticoida		0	0	0
321	Isopoda imm.		0	0	0
331	Mysid juvenile		0	0	2
345	Grapsid zoea		0	1	0
375	Caridean zoea		1	9	0
401	barnacle nauplius		0	0	0
520	Chaetognatha		0	1	0
560	fish larva		0	1	2
581	Clupea harengus		0	1	3
602	Tintinnopsis sp. A		0	439	0
603	Tintinnopsis sp. B		26046	16535	9014
605	Eutintinnus neriticus		0	293	0
700	Rotifera		0	0	0
801	Gastropod veliger		0	732	0
821	Bivalvia veliger		7	6731	0
				mg Carbon per cubic meter	
			2	11	29

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
90180	80009	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
930	318	2.0	10.3	11.3	1.6	2.7	0	1	ship
1010	324	1.0	10.2	11.2	1.4	2.5	1	1	ship
1055	334	2.0	10.6	13.9	0.5	1.9	0	-1	ship

		Station	318	324	334
		Depth	2.0	1.0	2.0
Code	Name			Number per cubic meter	
5	Acartia clausi F		439	1024	585
6	Acartia clausi M		878	615	468
7	Acartia clausi C		5926	615	1054
8	Acartia clausi N		2195	0	117
30	Calanus pacificus F		0	0	0
31	Calanus pacificus M		0	0	0
32	Calanus pacificus C		0	0	0
61	Paracalanus parvus M		0	0	0
62	Paracalanus parvus C		0	0	0
100	Eurytemora affinis F		25	102	0
101	Eurytemora affinis M		23	307	0
102	Eurytemora affinis C		8	307	117
103	Eurytemora affinis N		0	0	0
143	Sinocalanus dorii F		0	0	0
144	Sinocalanus dorii M		0	0	0
145	Sinocalanus dorii C		0	0	0
191	Epilabidocera longipedata M		0	0	0
192	Epilabidocera longipedata C		0	0	0
199	copepod nauplius		0	512	0
200	Cyclopoida		0	102	0
210	Oithona spp.		0	0	0
250	Harpacticoida		0	0	0
321	Isopoda imm.		0	0	0
331	Mysid juvenile		2	0	0
345	Grapsid zoea		0	0	0
375	Caridean zoea		0	0	0
401	barnacle nauplius		0	0	0
520	Chaetognatha		0	0	0
560	fish larva		0	0	0
581	Clupea harengus		0	0	0
602	Tintinnopsis sp. A		0	0	117
603	Tintinnopsis sp. B		51800	15364	32192
605	Eutintinnus neriticus		0	0	0
700	Rotifera		0	0	0
801	Gastropod veliger		0	0	0
821	Bivalvia veliger		0	0	0
				mg Carbon per cubic meter	
			8	6	4

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
90180	80009	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1328	404	5.0	10.0	3.0	0.9	5.0	1	-1	ship
1415	414	2.0	9.7	0.5	1.9	6.2	1	0	ship
1445	418	2.0	10.0	0.2	2.4	5.3	0	0	ship

		Station	404	414	418
		Depth	5.0	2.0	2.0
Code	Name		Number per cubic meter		
5	Acartia clausi F		132	0	0
6	Acartia clausi M		0	0	0
7	Acartia clausi C		0	0	0
8	Acartia clausi N		0	0	0
30	Calanus pacificus F		0	0	0
31	Calanus pacificus M		0	0	0
32	Calanus pacificus C		0	0	0
61	Paracalanus parvus M		0	0	0
62	Paracalanus parvus C		0	0	0
100	Eurytemora affinis F		0	293	0
101	Eurytemora affinis M		0	0	0
102	Eurytemora affinis C		395	732	3585
103	Eurytemora affinis N		0	0	0
143	Sinocalanus dorii F		0	0	0
144	Sinocalanus dorii M		0	0	146
145	Sinocalanus dorii C		0	0	0
191	Epilabidocera longipedata M		0	0	0
192	Epilabidocera longipedata C		0	0	0
199	copepod nauplius		2239	732	4756
200	Cyclopoida		395	0	439
210	Oithona spp.		0	293	0
250	Harpacticoida		0	0	73
321	Isopoda imm.		0	0	0
331	Mysid juvenile		0	0	0
345	Grapsid zoea		0	0	0
375	Caridean zoea		0	0	0
401	barnacle nauplius		132	0	0
520	Chaetognatha		0	0	0
560	fish larva		0	0	0
581	Clupea harengus		0	0	0
602	Tintinnopsis sp. A		0	0	0
603	Tintinnopsis sp. B		1580	0	1463
605	Eutintinnus neriticus		0	0	0
700	Rotifera		0	0	73
801	Gastropod veliger		0	0	0
821	Bivalvia veliger		0	0	0
			mg Carbon per cubic meter		
			2	2	6

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
90180	80009	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1720	757	2.0	9.3	0.0	0.2	3.7	1	1	ship

Station 757
Depth 2.0

Code	Name	Number per cubic meter
5	Acartia clausi F	0
6	Acartia clausi M	0
7	Acartia clausi C	0
8	Acartia clausi N	0
30	Calanus pacificus F	0
31	Calanus pacificus M	0
32	Calanus pacificus C	0
61	Paracalanus parvus M	0
62	Paracalanus parvus C	0
100	Eurytemora affinis F	0
101	Eurytemora affinis M	0
102	Eurytemora affinis C	0
103	Eurytemora affinis N	0
143	Sinocalanus dorii F	345
144	Sinocalanus dorii M	173
145	Sinocalanus dorii C	0
191	Epilabidocera longipedata M	0
192	Epilabidocera longipedata C	0
199	copepod nauplius	345
200	Cyclopoida	0
210	Oithona spp.	0
250	Harpacticoida	0
321	Isopoda imm.	0
331	Mysid juvenile	0
345	Grapsid zoea	0
375	Caridean zoea	0
401	barnacle nauplius	0
520	Chaetognatha	0
560	fish larva	0
581	Clupea harengus	0
602	Tintinnopsis sp. A	0
603	Tintinnopsis sp. B	0
605	Eutintinnus neriticus	0
700	Rotifera	0
801	Gastropod veliger	0
821	Bivalvia veliger	0
		mg Carbon per cubic meter
		4

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
240180	80024	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
737	19	13.0	12.4	25.9	0.3	0.6	1	0	ship
745	19	6.0	11.9	23.6	0.3	0.6	0	0	ship
918	17	10.0	11.0	16.3	0.4	1.2	0	-1	ship
948	17	5.0	10.3	11.6	0.5	1.8	0	-1	ship
954	17	1.0	10.0	8.5	0.5	2.6	0	-1	ship
1108	15	9.0	10.6	12.4	0.6	8.0	0	-1	ship
1114	15	4.0	9.9	6.8	0.5	3.8	0	-1	ship
1120	15	1.0	9.9	6.8	0.4	3.0	0	-1	ship

	Station	19		17			15		
	Depth	13.0	6.0	10.0	5.0	1.0	9.0	4.0	1.0
Code	Name	Number per cubic meter							
5	Acartia clausi F	667	133	0	133	0	0	67	0
6	Acartia clausi M	0	267	0	0	0	0	0	0
7	Acartia clausi C	1200	667	267	133	0	133	67	0
8	Acartia clausi N	400	0	0	0	0	267	0	0
60	Paracalanus parvus F	0	1	0	0	0	0	0	0
62	Paracalanus parvus C	133	0	0	133	0	0	0	0
100	Eurytemora affinis F	0	0	0	0	0	0	67	0
101	Eurytemora affinis M	0	0	0	0	0	267	0	267
102	Eurytemora affinis C	0	0	267	0	133	133	0	133
192	Epilabidocera longipedata C	133	0	0	0	0	0	0	0
199	copepod nauplius	0	1200	1333	1467	4400	4267	1733	1467
200	Cyclopoida	0	0	133	0	800	267	0	0
220	Corycaeus sp.	133	400	0	0	0	0	0	0
250	Harpacticoida	267	0	0	0	0	533	467	933
260	Sapphirina spp.	0	0	0	0	0	0	0	0
270	Microsetella sp.	133	0	0	0	0	0	0	0
300	Amphipoda	4	0	0	0	0	0	0	0
320	Isopoda	1	0	0	0	0	0	0	0
331	Mysid juvenile	1	0	0	0	0	0	0	0
332	Neomysis mercedis	0	0	0	0	0	0	0	0
340	Reptantia zoea	1	0	0	0	0	0	0	0
370	Natantia zoea	1	0	0	0	0	0	0	0
401	barnacle nauplius	0	0	0	0	0	0	0	0
440	Cladocera	0	0	0	0	0	0	0	133
601	tintinnid spp.	0	0	0	0	0	0	0	0
603	Tintinnopsis sp. B	0	0	0	0	133	28000	10667	16267
605	Eutintinnus neriticus	0	0	0	0	0	0	0	0
666	Polygorchis sp.	1	0	0	0	0	0	0	0
682	flatworm sp. B	0	133	0	0	0	0	0	0
700	Rotifera	0	0	0	0	0	0	0	0
740	Nematoda	0	0	0	0	0	0	0	0
751	Ectoprocta larva	0	400	133	0	0	0	0	0
801	Gastropod veliger	133	0	0	0	0	0	0	0
821	Bivalvia veliger	0	400	0	267	267	133	133	0
851	polychaete trochophore	133	0	0	0	0	0	0	0
855	spionid larva	133	0	0	0	0	0	0	0
880	scaleworm larva	133	0	0	0	0	0	0	0
899	pelagic polychaete	1	0	0	0	0	0	0	0

		Station	19			17			15	
		Depth	13.0	6.0	10.0	5.0	1.0	9.0	4.0	1.0
Code	Name				Number per cubic meter					
905	Chironomidae larva		0	0	0	0	0	0	0	0
					mg Carbon per cubic meter					
			6	2	1	1	3	3	1	2

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
240180	80024	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1221	13	9.0	11.2	15.8	0.6	7.1	0	-1	ship
1227	13	5.0	10.3	9.4	0.5	3.4	0	-1	ship
1233	13	1.0	10.0	5.8	0.6	4.8	0	-1	ship
1418	9	10.0	9.1	0.1	0.7	10.3	5	-1	ship
1424	9	5.0	9.1	0.1	0.7	10.3	5	-1	ship
1430	9	1.0	9.1	0.1	0.7	10.5	5	-1	ship

		Station		13			9	
		Depth	9.0	5.0	1.0	10.0	5.0	1.0
Code	Name					Number per cubic meter		
5	Acartia clausi F		467	67	0	0	0	0
6	Acartia clausi M		533	67	0	0	0	0
7	Acartia clausi C		3200	1667	67	0	0	0
8	Acartia clausi N		800	1133	0	0	0	0
60	Paracalanus parvus F		0	0	0	0	0	0
62	Paracalanus parvus C		67	0	0	0	0	0
100	Eurytemora affinis F		0	0	0	1	17	0
101	Eurytemora affinis M		0	0	0	0	0	0
102	Eurytemora affinis C		133	0	400	1	0	0
192	Epilabidocera longipedata C		0	0	0	0	0	0
199	copepod nauplius		600	67	1533	0	17	0
200	Cyclopoida		0	67	67	0	0	0
220	Corycaeus sp.		0	0	0	0	0	0
250	Harpacticoida		0	333	333	0	0	3
260	Sapphirina spp.		200	0	0	0	0	0
270	Microsetella sp.		0	0	0	0	0	0
300	Amphipoda		0	0	0	0	0	0
320	Isopoda		0	0	0	0	0	0
331	Mysid juvenile		0	0	0	0	0	0
332	Neomysis mercedis		0	0	0	0	1	0
340	Reptantia zoea		0	0	0	0	0	0
370	Natantia zoea		0	0	0	0	0	0
401	barnacle nauplius		0	133	0	0	0	0
440	Cladocera		0	0	67	0	50	1
601	tintinnid spp.		0	0	67	0	0	0
603	Tintinnopsis sp. B		45333	35333	10000	0	0	0
605	Eutintinnus neriticus		0	0	0	0	0	0
666	Polyorchis sp.		0	0	0	0	0	0
682	flatworm sp. B		0	0	0	0	0	0
700	Rotifera		67	0	0	0	417	16
740	Nematoda		0	0	0	0	17	0
751	Ectoprocta larva		0	0	0	0	0	0
801	Gastropod veliger		0	0	0	0	0	0
821	Bivalvia veliger		133	0	67	0	0	0
851	polychaete trochophore		0	0	0	0	0	0
855	spionid larva		0	0	0	0	0	0
880	scaleworm larva		0	0	0	0	0	0
899	pelagic polychaete		0	0	0	0	0	0
905	Chironomidae larva		0	0	0	3	1	0
						mg Carbon per cubic meter		
			6	3	1	0	0	0

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
60280	80037	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
725	19	13.0	11.9	25.7	1.8	1.4	0	-1	ship
731	19	7.0	12.0	26.6	1.8	1.2	0	-1	ship
737	19	1.0	11.8	24.6	1.8	1.1	0	-1	ship
910	17	10.0	11.7	24.1	0.8	1.3	0	-1	ship
916	17	5.0	10.3	18.8	0.8	1.4	0	-1	ship
922	17	1.0	10.8	13.2	0.8	1.4	0	-1	ship
1026	15	14.0	11.6	22.9	0.7	3.2	2	-1	ship
1032	15	7.0	11.0	17.2	0.6	1.6	0	-1	ship
1038	15	1.0	10.2	9.0	0.6	2.0	0	-1	ship

Code	Name	Station	19			17			15	
		Depth	13.0	7.0	1.0	10.0	5.0	1.0	14.0	7.0	1.0
			Number per cubic meter								
5	Acartia clausi F		1200	400	133	3067	4000	0	267	2000	133
6	Acartia clausi M		133	133	0	0	0	0	267	0	0
7	Acartia clausi C		1467	800	133	2667	5333	267	1467	4933	400
8	Acartia clausi N		1200	667	0	1753	3733	1869	933	5200	400
29	Tortanus discaudatus C		0	0	0	0	133	0	0	0	0
36	Calanus tenuicornis C		133	0	0	0	0	0	0	0	0
60	Paracalanus parvus F		400	133	0	267	133	267	267	133	0
62	Paracalanus parvus C		0	0	0	533	0	0	133	133	0
100	Eurytemora affinis F		0	0	0	0	0	0	0	0	0
101	Eurytemora affinis M		0	0	0	0	0	0	133	0	0
102	Eurytemora affinis C		0	0	0	133	0	267	133	0	133
103	Eurytemora affinis N		0	0	0	0	0	0	0	0	0
143	Sinocalanus dorii F		0	0	0	0	0	0	0	0	0
145	Sinocalanus dorii C		0	0	0	0	0	0	0	0	0
199	copepod nauplius		49333	49333	8400	0	400	0	0	0	0
200	Cyclopoida		0	0	0	0	0	0	0	0	0
210	Oithona spp.		0	0	400	667	0	0	0	0	0
213	Oithona spinirostris		133	0	0	133	0	0	0	0	0
220	Corycaeus sp.		267	533	800	267	400	0	133	133	0
250	Harpacticoida		133	133	133	933	1333	1067	0	0	0
270	Microsetella sp.		0	133	0	0	0	0	0	0	0
280	Harpacticoid sp.A		0	0	0	0	267	0	0	0	0
321	Isopoda imm.		133	0	0	0	0	0	0	0	0
350	Xanthid zoea		0	0	133	0	0	0	0	0	0
360	Pinnotherid zoea		133	0	0	0	0	0	0	0	0
370	Natantia zoea		0	133	0	0	133	0	0	0	0
401	barnacle nauplius		0	0	400	0	0	0	0	267	0
440	Cladocera		0	0	0	0	0	0	0	0	0
520	Chaetognatha		0	0	0	0	0	267	133	0	0
603	Tintinnopsis sp. B		0	0	0	0	0	0	40000	533	1600
605	Eutintinnus neriticus		0	0	0	0	1333	0	0	5333	0
700	Rotifera		0	0	0	0	0	0	0	0	0
705	Keratella sp.		0	0	0	0	0	0	0	133	0
750	Ectoprocta (Bryozoa)		133	0	0	0	0	0	0	133	0
821	Bivalvia veliger		133	267	133	267	533	0	0	0	0
855	spionid larva		267	133	0	133	267	267	0	133	0
905	Chironomidae larva		0	0	0	0	0	0	0	0	0

	Station		19			17			15	
	Depth	13.0	7.0	1.0	10.0	5.0	1.0	14.0	7.0	1.0
Code	Name				Number per cubic meter					
950	Anocystis sp.	0	0	0	0	0	0	0	0	0
					mg Carbon per cubic meter					
		13	9	3	14	20	5	5	11	1

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
60280	80037	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1142	13	9.0	11.5	21.4	0.7	2.6	1	-1	ship
1148	13	5.0	10.8	14.7	0.9	1.6	0	-1	ship
1154	13	1.0	10.5	11.1	1.1	2.1	0	-1	ship
1325	9	14.0	9.9	7.5	1.2	3.8	1	0	ship
1331	9	7.0	9.4	2.5	1.2	4.3	1	0	ship
1337	9	1.0	9.4	1.3	1.2	3.9	1	0	ship
1444	6	9.0	9.5	0.1	0.9	4.3	1	1	ship
1450	6	5.0	9.2	0.1	0.9	4.2	1	1	ship
1456	6	1.0	9.2	0.1	0.9	4.0	1	1	ship

		Station		13			9			6	
		Depth	9.0	5.0	1.0	14.0	7.0	1.0	9.0	5.0	1.0
Code	Name					Number per cubic meter					
5	Acartia clausi F		267	133	267	0	0	0	0	0	0
6	Acartia clausi M		0	0	0	0	0	0	0	0	0
7	Acartia clausi C		667	6133	4800	0	0	0	0	0	0
8	Acartia clausi N		533	2267	2800	0	0	0	0	0	0
29	Tortanus discaudatus C		0	0	0	0	0	0	0	0	0
36	Calanus tenuicornis C		0	0	0	0	0	0	0	0	0
60	Paracalanus parvus F		0	400	0	0	0	0	0	0	0
62	Paracalanus parvus C		800	133	0	0	0	0	0	0	0
100	Eurytemora affinis F		0	0	0	2533	0	0	0	0	0
101	Eurytemora affinis M		0	0	0	1067	400	0	0	0	0
102	Eurytemora affinis C		133	133	267	5067	533	2400	67	0	47
103	Eurytemora affinis N		0	0	0	533	400	1733	0	0	0
143	Sinocalanus dorii F		0	0	0	133	0	0	0	0	0
145	Sinocalanus dorii C		0	0	0	0	133	0	0	0	0
199	copepod nauplius		400	0	0	0	0	0	67	0	840
200	Cyclopoida		0	0	533	0	267	267	67	0	47
210	Oithona spp.		0	0	0	0	0	0	0	0	0
213	Oithona spinirostris		0	0	0	0	0	0	0	0	0
220	Corycaeus sp.		0	0	0	0	0	0	0	0	0
250	Harpacticoida		0	133	0	133	267	0	200	33	513
270	Microsetella sp.		0	0	0	0	0	0	0	0	0
280	Harpacticoid sp.A		0	0	0	0	0	0	0	0	0
321	Isopoda imm.		0	0	0	0	0	0	0	0	0
350	Xanthid zoea		0	0	0	0	0	0	0	0	0
360	Pinnotherid zoea		0	0	0	0	0	0	0	0	0
370	Natantia zoea		0	0	0	0	0	0	0	0	0
401	barnacle nauplius		0	0	0	0	0	0	0	0	0
440	Cladocera		0	0	0	0	267	0	133	67	140
520	Chaetognatha		0	0	0	0	0	0	0	0	0
603	Tintinnopsis sp. B		2667	46667	69333	2667	0	0	0	0	0
605	Eutintinnus neriticus		0	4400	133	0	0	0	0	0	0
700	Rotifera		0	0	0	0	0	0	0	0	0
705	Keratella sp.		0	133	0	0	133	400	0	0	420
750	Ectoprocta (Bryozoa)		133	0	0	0	0	0	0	0	0
821	Bivalvia veliger		0	400	0	0	0	133	0	0	0
855	spionid larva		0	133	0	0	0	0	0	0	0
905	Chironomidae larva		0	0	0	0	0	0	0	0	0

	Station		13			9			6	
	Depth	9.0	5.0	1.0	14.0	7.0	1.0	9.0	5.0	1.0
Code	Name				Number per cubic meter					
950	Anocystis sp.	0	0	0	0	1	1	0	1	1
					mg Carbon per cubic meter					
		2	8	7	17	3	4	1	0	1

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
60280	80037	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1546	4	7.0	9.1	0.1	0.9	4.1	2	1	ship
1552	4	4.0	9.2	0.1	0.9	3.9	2	1	ship
1558	4	1.0	10.0	0.1	0.9	4.1	2	1	ship
1749	657	1.5	9.2	0.1	1.4	4.4	1	0	ship

	Station		4		657
	Depth	7.0	4.0	1.0	1.5
Code	Name				Number per cubic meter
5	Acartia clausi F	0	0	0	0
6	Acartia clausi M	0	0	0	0
7	Acartia clausi C	0	0	0	0
8	Acartia clausi N	0	0	0	0
29	Tortanus discaudatus C	0	0	0	0
36	Calanus tenuicornis C	0	0	0	0
60	Paracalanus parvus F	0	0	0	0
62	Paracalanus parvus C	0	0	0	0
100	Eurytemora affinis F	0	0	0	0
101	Eurytemora affinis M	0	0	0	0
102	Eurytemora affinis C	0	0	0	0
103	Eurytemora affinis N	0	0	0	0
143	Sinocalanus dorii F	0	0	0	0
145	Sinocalanus dorii C	0	0	0	0
199	copepod nauplius	22	22	22	333
200	Cyclopoida	22	22	22	67
210	Oithona spp.	0	0	0	0
213	Oithona spinirostris	0	0	0	0
220	Corycaeus sp.	0	0	0	0
250	Harpacticoida	267	267	267	200
270	Microsetella sp.	0	0	0	0
280	Harpacticoid sp.A	0	0	0	0
321	Isopoda imm.	0	0	0	0
350	Xanthid zoea	0	0	0	0
360	Pinnotherid zoea	0	0	0	0
370	Natantia zoea	0	0	0	0
401	barnacle nauplius	0	0	0	0
440	Cladocera	155	155	155	267
520	Chaetognatha	0	0	0	0
603	Tintinnopsis sp. B	0	0	0	0
605	Eutintinnus neriticus	0	0	0	0
700	Rotifera	89	89	89	0
705	Keratella sp.	155	155	155	333
750	Ectoprocta (Bryozoa)	0	0	0	0
821	Bivalvia veliger	0	0	0	0
855	spionid larva	0	0	0	0
905	Chironomidae larva	1	1	1	0
					mg Carbon per cubic meter
		1	1	1	1

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
60280	80037	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
815	302	1.0	11.0	12.7	0.6	3.0	0	-1	ship
900	312	1.0	10.6	4.5	1.4	4.9	0	-1	ship
950	318	1.0	10.8	4.0	2.0	3.3	0	-1	ship

		Station	302	312	318
		Depth	1.0	1.0	1.0
Code	Name			Number per cubic meter	
5	Acartia clausi F		430	0	0
7	Acartia clausi C		2000	0	0
8	Acartia clausi N		1867	0	0
62	Paracalanus parvus C		133	0	0
100	Eurytemora affinis F		0	267	267
101	Eurytemora affinis M		0	667	0
102	Eurytemora affinis C		0	2133	1333
103	Eurytemora affinis N		0	0	267
143	Sinocalanus dorii F		0	133	0
145	Sinocalanus dorii C		0	0	0
199	copepod nauplius		0	10667	0
200	Cyclopoida		0	133	0
210	Oithona spp.		0	0	0
250	Harpacticoida		133	0	133
440	Cladocera		0	0	0
560	fish larva		0	0	0
601	tintinnid spp.		0	0	0
603	Tintinnopsis sp. B		13867	6667	25067
700	Rotifera		0	0	0
701	Synchaeta sp.		0	0	0
705	Keratella sp.		0	0	0
				mg Carbon per cubic meter	
			3	7	3

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
60280	80037	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1030	324	0.5	11.1	4.1	3.2	2.1	0	0	ship
1120	334	1.0	11.0	9.1	1.0	3.0	0	-1	ship
1430	404	5.0	10.2	0.2	0.9	4.0	1	1	ship

		Station	324	334	404
		Depth	0.5	1.0	5.0
Code	Name		Number per cubic meter		
5	Acartia clausi F		0	0	0
7	Acartia clausi C		0	133	0
8	Acartia clausi N		0	0	0
62	Paracalanus parvus C		0	0	0
100	Eurytemora affinis F		0	0	0
101	Eurytemora affinis M		0	0	0
102	Eurytemora affinis C		1467	1867	1400
103	Eurytemora affinis N		12933	5333	133
143	Sinocalanus dorii F		133	0	67
145	Sinocalanus dorii C		0	0	67
199	copepod nauplius		0	0	0
200	Cyclopoida		0	267	0
210	Oithona spp.		266	133	0
250	Harpacticoida		133	133	67
440	Cladocera		0	0	200
560	fish larva		0	0	1
601	tintinnid spp.		0	0	0
603	Tintinnopsis sp. B		53333	25700	0
700	Rotifera		0	133	0
701	Synchaeta sp.		133	0	0
705	Keratella sp.		0	0	0
			mg Carbon per cubic meter		
			6	4	2

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
60280	80037	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1530	418	1.5	9.8	0.1	0.8	4.0	1	0	ship
1630	438	1.0	9.9	0.1	0.5	2.6	3	1	ship
1750	757	5.0	9.6	0.1	0.5	-	3	1	ship

		Station	418	438	757
		Depth	1.5	1.0	5.0
Code	Name		Number per cubic meter		
5	Acartia clausi F		0	0	0
7	Acartia clausi C		0	0	0
8	Acartia clausi N		0	0	0
62	Paracalanus parvus C		0	0	0
100	Eurytemora affinis F		0	0	0
101	Eurytemora affinis M		0	0	0
102	Eurytemora affinis C		200	0	0
103	Eurytemora affinis N		0	0	0
143	Sinocalanus dorii F		0	0	0
145	Sinocalanus dorii C		0	0	0
199	copepod nauplius		0	67	0
200	Cyclopoida		133	67	0
210	Oithona spp.		0	0	0
250	Harpacticoida		533	333	0
440	Cladocera		67	200	133
560	fish larva		0	0	0
601	tintinnid spp.		67	0	0
603	Tintinnopsis sp. B		0	0	0
700	Rotifera		867	0	0
701	Synchaeta sp.		0	0	0
705	Keratella sp.		0	67	0
				mg Carbon per cubic meter	
			1	1	0

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
50380	80065	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
802	17	14.0	13.3	21.4	0.8	1.7	1	1	ship
817	17	7.0	13.2	15.1	0.8	1.5	1	1	ship
823	17	1.0	13.0	11.3	1.0	1.6	1	1	ship
1012	15	14.0	13.2	19.3	1.0	6.0	2	1	ship
1018	15	7.0	12.8	9.1	0.8	2.5	0	1	ship
1024	15	1.0	12.7	1.9	1.0	5.3	0	1	ship
1154	13	10.0	13.3	10.0	0.7	2.2	1	1	ship
1200	13	5.0	12.9	8.5	0.7	2.1	0	1	ship
1206	13	1.0	13.1	4.1	0.8	3.4	0	1	ship

		Station		17			15			13	
		Depth	14.0	7.0	1.0	14.0	7.0	1.0	10.0	5.0	1.0
Code	Name					Number per cubic meter					
5	Acartia clausi F		1125	600	0	2933	0	0	5800	333	0
6	Acartia clausi M		563	400	0	2400	0	0	1000	0	0
7	Acartia clausi C		4500	800	100	2933	200	0	6400	167	0
8	Acartia clausi N		1312	200	0	2400	400	0	3400	0	0
28	Tortanus discaudatus M		0	0	0	267	0	0	0	0	0
36	Calanus tenuicornis C		0	200	0	0	0	0	0	0	0
60	Paracalanus parvus F		188	0	0	267	0	0	0	0	0
61	Paracalanus parvus M		188	0	0	0	0	0	0	0	0
62	Paracalanus parvus C		2250	200	0	533	0	0	0	0	0
100	Eurytemora affinis F		0	0	0	0	0	0	200	0	0
101	Eurytemora affinis M		0	0	0	0	0	0	200	167	0
102	Eurytemora affinis C		188	0	0	0	0	400	1400	167	400
143	Sinocalanus dorii F		0	0	0	0	0	0	0	0	0
145	Sinocalanus dorii C		0	0	0	0	0	200	100	833	0
194	copepodite (unknown)		0	0	0	0	0	0	0	167	0
197	copepod nauplius B		188	0	0	533	0	0	200	0	0
198	copepod nauplius C		0	0	0	0	400	0	0	0	0
199	copepod nauplius		0	2200	600	0	4800	4000	0	16667	4800
200	Cyclopoida		0	600	200	267	600	1000	800	500	800
210	Oithona spp.		188	0	0	0	0	0	200	0	0
220	Corycaeus sp.		188	0	0	267	0	0	0	0	0
250	Harpacticoida		375	200	0	267	0	0	0	333	0
270	Microsetella sp.		0	0	0	0	600	0	0	167	0
281	Harpacticoid A N		188	0	0	0	0	0	0	0	0
321	Isopoda imm.		0	200	0	0	0	0	0	0	0
332	Neomysis mercedis		0	0	0	0	0	0	200	0	0
355	Cancer zoea		188	0	0	267	0	0	0	0	0
370	Natantia zoea		188	0	0	0	0	0	0	0	0
391	euphausid nauplius		375	0	0	0	0	0	0	0	0
401	barnacle nauplius		0	200	0	0	0	0	0	0	0
402	barnacle cypris		188	0	0	0	0	0	0	0	0
440	Cladocera		0	0	0	0	0	0	200	0	0
570	Gobiidae larva		0	1	0	0	0	0	0	0	0
602	Tintinnopsis sp. A		0	0	0	0	0	0	0	0	0
603	Tintinnopsis sp. B		16125	11400	2900	4000	13400	17000	85000	70833	10000
605	Eutintinnus neriticus		188	0	0	0	0	0	0	0	0
682	flatworm sp. B		375	0	0	0	0	0	0	0	0

		Station		17			15				13	
		Depth	14.0	7.0	1.0	14.0	7.0	1.0	10.0	5.0	1.0
Code	Name					Number per cubic meter					
700	Rotifera		0	0	0	0	0	0	0	167	0
701	Synchaeta sp.		0	0	0	0	0	0	0	333	0
702	Synchaeta sp. egg		188	0	0	0	0	0	0	167	0
740	Nematoda		0	0	0	0	0	0	0	0	0
821	Bivalvia veliger		3000	2200	200	1333	400	0	0	0	0
855	spionid larva		188	400	0	0	0	0	0	0	0
880	scaleworm larva		188	0	0	0	0	0	0	0	0
						mg Carbon per cubic meter					
			14	8	1	19	3	5	29	9	3

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
50380	80065	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1332	9	12.0	12.5	0.1	1.7	6.0	4	1	ship
1338	9	6.0	12.5	0.1	1.7	5.7	3	1	ship
1344	9	1.0	12.5	0.1	1.7	5.8	3	1	ship
1514	6	10.0	12.3	0.1	1.0	5.1	1	1	ship
1520	6	5.0	12.3	0.1	1.0	5.4	1	1	ship
1526	6	1.0	12.3	0.1	1.0	5.8	1	1	ship
1646	3	2.0	12.6	0.1	0.5	4.8	1	1	ship

		Station		9			6		3
		Depth	12.0	6.0	1.0	10.0	5.0	1.0	2.0
Code	Name					Number per cubic meter			
5	Acartia clausi F		0	0	0	0	0	0	0
6	Acartia clausi M		0	0	0	0	0	0	0
7	Acartia clausi C		0	0	0	0	0	0	0
8	Acartia clausi N		0	0	0	0	0	0	0
28	Tortanus discaudatus M		0	0	0	0	0	0	0
36	Calanus tenuicornis C		0	0	0	0	0	0	0
60	Paracalanus parvus F		0	0	0	0	0	0	0
61	Paracalanus parvus M		0	0	0	0	0	0	0
62	Paracalanus parvus C		0	0	0	0	0	0	0
100	Eurytemora affinis F		0	0	0	0	0	0	100
101	Eurytemora affinis M		0	0	0	0	0	0	0
102	Eurytemora affinis C		500	133	200	0	0	0	0
143	Sinocalanus dorii F		167	266	0	0	0	0	0
145	Sinocalanus dorii C		0	133	0	0	0	0	0
194	copepodite (unknown)		0	0	0	0	0	0	0
197	copepod nauplius B		0	0	0	0	0	0	0
198	copepod nauplius C		0	0	0	0	0	0	0
199	copepod nauplius		0	266	0	0	133	0	2700
200	Cyclopoida		0	400	200	613	0	933	300
210	Oithona spp.		0	0	0	1073	0	67	0
220	Corycaeus sp.		0	0	0	0	0	0	0
250	Harpacticoida		0	667	800	0	0	0	700
270	Microsetella sp.		0	0	0	0	0	0	0
281	Harpacticoid A N		0	0	0	0	0	0	0
321	Isopoda imm.		0	0	0	0	0	0	0
332	Neomysis mercedis		0	0	0	0	0	0	0
355	Cancer zoea		0	0	0	0	0	0	0
370	Natantia zoea		0	0	0	0	0	0	0
391	euphausid nauplius		0	0	0	0	0	0	0
401	barnacle nauplius		0	0	0	0	0	0	0
402	barnacle cypris		0	0	0	0	0	0	0
440	Cladocera		0	133	0	307	0	333	400
570	Gobiidae larva		0	0	0	0	0	0	0
602	Tintinnopsis sp. A		0	133	0	0	0	0	0
603	Tintinnopsis sp. B		0	133	0	0	0	0	0
605	Eutintinnus neriticus		0	0	0	0	0	0	0
682	flatworm sp. B		0	0	0	0	0	0	0
700	Rotifera		0	0	0	153	0	200	600
701	Synchaeta sp.		0	0	0	0	0	0	0

		Station		9			6			3
		Depth	12.0	6.0	1.0	10.0	5.0	1.0		2.0
Code	Name					Number per cubic meter				
702	Synchaeta sp. egg		0	0	0	0	0	0		0
740	Nematoda		0	0	0	153	0	67		0
821	Bivalvia veliger		0	0	0	0	0	0		0
855	spionid larva		0	0	0	0	0	0		0
880	scaleworm larva		0	0	0	0	0	0		0
						mg Carbon per cubic meter				
			2	5	2	3	0	3		3

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
50380	80065	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
900	312	1.0	12.8	2.1	4.4	18.3	0	1	ship
940	318	1.0	12.9	1.8	10.9	28.9	0	1	ship
1015	324	0.5	12.5	1.3	11.6	32.4	1	1	ship

		Station	312	318	324
		Depth	1.0	1.0	0.5
Code	Name		Number per cubic meter		
100	Eurytemora affinis F		0	182	0
101	Eurytemora affinis M		0	364	364
102	Eurytemora affinis C		227	364	727
143	Sinocalanus dorii F		0	0	364
144	Sinocalanus dorii M		0	0	364
145	Sinocalanus dorii C		0	182	182
197	copepod nauplius B		0	1455	364
199	copepod nauplius		26364	1818	545
200	Cyclopoida		1136	0	182
250	Harpacticoida		0	0	364
440	Cladocera		0	0	0
603	Tintinnopsis sp. B		0	2727	727
705	Keratella sp.		0	0	0
				ug Carbon per cubic meter	
			6	3	8

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
50380	80065	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1410	404	3.0	12.2	0.1	1.7	6.6	1	1	ship
1505	418	1.0	12.5	0.1	1.8	8.0	1	1	ship

		Station	404	418
		Depth	3.0	1.0
Code	Name		Number per cubic meter	
100	Eurytemora affinis F		0	0
101	Eurytemora affinis M		0	0
102	Eurytemora affinis C		0	0
143	Sinocalanus dorii F		0	0
144	Sinocalanus dorii M		0	0
145	Sinocalanus dorii C		0	0
197	copepod nauplius B		0	0
199	copepod nauplius		909	5818
200	Cyclopoida		364	182
250	Harpacticoida		727	545
440	Cladocera		182	0
603	Tintinnopsis sp. B		0	0
705	Keratella sp.		0	545
			mg Carbon per cubic meter	
			2	2

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
190380	80079	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
727	19	5.0	12.9	20.7	1.1	1.4	3	-1	ship
720	19	1.0	12.9	20.7	1.1	1.4	3	-1	ship
815	17	5.0	13.3	18.8	1.5	4.0	4	-1	ship
942	15	14.0	13.2	10.1	2.4	6.4	4	-1	ship
948	15	7.0	13.2	9.0	2.5	7.0	3	-1	ship
954	15	1.0	13.2	5.5	2.7	6.0	3	-1	ship

		Station	19		17		15	
		Depth	5.0	1.0	5.0	14.0	7.0	1.0
Code	Name				Number per cubic meter			
5	Acartia clausi F		833	500	0	2667	333	0
6	Acartia clausi M		0	167	333	2000	333	0
7	Acartia clausi C		417	500	2000	7000	6333	667
8	Acartia clausi N		2083	333	6000	1667	2667	0
60	Paracalanus parvus F		417	167	333	333	0	0
62	Paracalanus parvus C		417	0	0	333	0	0
100	Eurytemora affinis F		0	0	0	0	0	333
101	Eurytemora affinis M		0	0	0	0	0	333
102	Eurytemora affinis C		0	0	0	333	0	0
140	Centropages abdominalis F		0	167	0	0	0	0
142	Centropages abdominalis C		417	0	0	0	0	0
143	Sinocalanus dorii F		0	0	0	0	0	0
144	Sinocalanus dorii M		0	0	0	0	0	0
145	Sinocalanus dorii C		0	0	0	0	0	0
194	copepodite (unknown)		0	0	0	0	0	333
196	copepod nauplius A		0	0	333	0	0	0
197	copepod nauplius B		0	0	0	0	0	0
199	copepod nauplius		3333	833	1000	0	0	333
200	Cyclopoida		0	0	0	333	667	2000
250	Harpacticoida		833	500	0	1333	0	0
270	Microsetella sp.		0	0	0	333	0	0
333	Neomysis mercedis juv.		0	0	0	0	0	0
440	Cladocera		0	0	0	0	0	0
441	Bosmina sp.		0	0	0	0	0	0
445	Daphnia pulex		0	0	0	0	0	0
601	tintinnid spp.		0	333	333	0	0	0
603	Tintinnopsis sp. B		0	0	12667	100000	70000	6667
605	Eutintinnus neriticus		0	0	0	0	333	0
700	Rotifera		0	0	333	0	667	667
701	Synchaeta sp.		0	0	0	0	0	0
703	Brachionus sp.		0	0	0	0	0	0
704	Kellicottia sp.		0	0	0	0	0	0
705	Keratella sp.		0	0	0	0	0	0
713	Asplancha sp.		0	0	0	0	0	0
715	Polyarthra sp.		0	0	0	0	0	0
719	Filinia sp.		0	0	0	0	0	0
821	Bivalvia veliger		0	500	333	333	0	0
855	spionid larva		0	167	333	0	333	0
880	scaleworm larva		0	0	333	0	0	0
					ug Carbon per cubic meter			
			7	5	5	21	10	10

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
190380	80079	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1045	13	8.0	13.4	8.2	3.8	7.4	4	-1	ship
1051	13	4.0	13.4	6.2	3.8	6.0	4	-1	ship
1057	13	1.0	13.5	5.5	3.0	5.6	3	-1	ship
1329	9	10.0	12.9	0.2	2.7	6.1	4	1	ship
1335	9	5.0	13.1	0.2	2.8	6.1	4	1	ship
1341	9	1.0	13.1	0.2	2.9	6.1	4	1	ship
1455	6	5.0	13.2	0.1	2.3	4.6	4	1	ship

		Station		13			9		6
		Depth	8.0	4.0	1.0	10.0	5.0	1.0	5.0
Code	Name					Number per cubic meter			
5	Acartia clausi F		533	267	800	0	0	0	0
6	Acartia clausi M		0	0	0	0	0	0	0
7	Acartia clausi C		1066	267	800	0	0	0	0
8	Acartia clausi N		1066	267	1867	0	0	0	0
60	Paracalanus parvus F		0	0	0	0	0	0	0
62	Paracalanus parvus C		0	0	0	0	0	0	0
100	Eurytemora affinis F		0	1333	267	0	0	0	0
101	Eurytemora affinis M		533	267	0	0	167	0	0
102	Eurytemora affinis C		1066	1066	0	0	0	0	133
140	Centropages abdominalis F		0	0	0	0	0	0	0
142	Centropages abdominalis C		0	0	0	0	0	0	0
143	Sinocalanus dorii F		0	0	0	267	1333	0	0
144	Sinocalanus dorii M		0	0	0	267	167	0	0
145	Sinocalanus dorii C		0	0	0	0	0	0	267
194	copepodite (unknown)		0	0	0	0	0	333	0
196	copepod nauplius A		0	0	0	0	0	0	0
197	copepod nauplius B		0	267	1067	0	0	0	0
199	copepod nauplius		3200	533	0	0	0	500	0
200	Cyclopoida		0	2133	1067	1600	500	2833	1200
250	Harpacticoida		533	0	267	1067	0	2333	0
270	Microsetella sp.		0	267	267	0	0	0	0
333	Neomysis mercedis juv.		0	7	0	0	0	0	0
440	Cladocera		0	0	0	267	333	0	0
441	Bosmina sp.		0	0	0	0	0	833	667
445	Daphnia pulex		0	0	0	0	0	0	0
601	tintinnid spp.		0	0	0	0	0	0	0
603	Tintinnopsis sp. B		170667	85333	32000	0	0	0	0
605	Eutintinnus neriticus		0	0	0	0	0	0	0
700	Rotifera		533	0	267	0	0	0	0
701	Synchaeta sp.		533	0	0	0	0	600	0
703	Brachionus sp.		0	0	0	0	0	600	0
704	Kellicottia sp.		0	0	0	0	0	600	0
705	Keratella sp.		0	0	0	0	0	167	0
713	Asplancha sp.		0	0	0	0	0	1	0
715	Polyarthra sp.		0	0	0	0	0	600	0
719	Filinia sp.		0	0	0	0	0	600	0
821	Bivalvia veliger		0	0	0	0	0	0	0
855	spionid larva		0	0	0	0	0	0	0
880	scaleworm larva		0	0	0	0	0	0	0

	Station		13			9			6
	Depth	8.0	4.0	1.0	10.0	5.0	1.0		5.0
Code	Name				Number per cubic meter				
950	Anocystis sp.	0	0	0	1	1	1		1
					mg Carbon per cubic meter				
		7	14	8	10	14	14		6

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
190380	80079	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1606	3	3.0	12.4	0.1	4.0	4.1	4	1	ship
1745	657	3.0	12.0	0.1	4.2	4.8	4	1	ship

		Station	3	657
		Depth	3.0	3.0
Code	Name		Number per cubic meter	
5	Acartia clausi F		0	0
6	Acartia clausi M		0	0
7	Acartia clausi C		0	0
8	Acartia clausi N		0	0
60	Paracalanus parvus F		0	0
62	Paracalanus parvus C		0	0
100	Eurytemora affinis F		0	0
101	Eurytemora affinis M		0	0
102	Eurytemora affinis C		167	0
140	Centropages abdominalis F		0	0
142	Centropages abdominalis C		0	0
143	Sinocalanus dorii F		0	0
144	Sinocalanus dorii M		0	167
145	Sinocalanus dorii C		0	0
194	copepodite (unknown)		167	167
196	copepod nauplius A		0	0
197	copepod nauplius B		0	0
199	copepod nauplius		0	667
200	Cyclopoida		667	333
250	Harpacticoida		1000	500
270	Microsetella sp.		0	0
333	Neomysis mercedis juv.		0	0
440	Cladocera		0	500
441	Bosmina sp.		0	0
445	Daphnia pulex		667	0
601	tintinnid spp.		0	0
603	Tintinnopsis sp. B		0	0
605	Eutintinnus neriticus		0	0
700	Rotifera		0	2833
701	Synchaeta sp.		0	0
703	Brachionus sp.		0	0
704	Kellicottia sp.		0	0
705	Keratella sp.		0	0
713	Asplancha sp.		0	0
715	Polyarthra sp.		0	0
719	Filinia sp.		0	0
821	Bivalvia veliger		0	0
855	spionid larva		0	0
880	scaleworm larva		0	0
				ug Carbon per cubic meter
			5	4

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
190380	80079	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
817	302	0.5	11.9	8.9	2.4	7.6	3	-1	ship
850	306	1.5	12.2	5.9	5.0	8.7	3	-1	ship
930	312	0.3	11.8	5.0	25.5	13.8	3	0	ship

		Station	302	306	312
		Depth	0.5	1.5	0.3
Code	Name			Number per cubic meter	
5	Acartia clausi F		0	200	0
6	Acartia clausi M		167	200	0
7	Acartia clausi C		333	400	1400
8	Acartia clausi N		500	0	0
100	Eurytemora affinis F		0	400	0
101	Eurytemora affinis M		0	1200	0
102	Eurytemora affinis C		0	1000	400
143	Sinocalanus dorii F		0	0	0
145	Sinocalanus dorii C		0	0	200
197	copepod nauplius B		0	0	200
199	copepod nauplius		0	200	7800
200	Cyclopoida		333	1000	0
250	Harpacticoida		167	1200	1
270	Microsetella sp.		0	0	0
333	Neomysis mercedis juv.		0	0	0
420	Ostracoda		0	0	0
440	Cladocera		0	0	0
603	Tintinnopsis sp. B		37833	125000	25000
				mg Carbon per cubic meter	
			2	12	3

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
190380	80079	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1012	318	0.8	12.2	4.8	20.1	9.1	2	1	ship
1050	324	0.3	12.2	4.5	18.8	9.9	2	1	ship
1140	334	1.0	13.1	4.1	3.6	8.0	3	1	ship

		Station	318	324	334
		Depth	0.8	0.3	1.0
Code	Name			Number per cubic meter	
5	Acartia clausi F		0	0	0
6	Acartia clausi M		0	0	0
7	Acartia clausi C		0	0	0
8	Acartia clausi N		200	0	0
100	Eurytemora affinis F		0	0	400
101	Eurytemora affinis M		200	200	0
102	Eurytemora affinis C		2200	1600	1200
143	Sinocalanus dorii F		0	400	0
145	Sinocalanus dorii C		200	400	0
197	copepod nauplius B		3000	3400	800
199	copepod nauplius		600	0	1800
200	Cyclopoida		400	200	1400
250	Harpacticoida		0	400	600
270	Microsetella sp.		600	0	600
333	Neomysis mercedis juv.		0	15	0
420	Ostracoda		0	200	0
440	Cladocera		0	0	200
603	Tintinnopsis sp. B		50000	40000	25000
				mg Carbon per cubic meter	
			6	8	9

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
90480	80100	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
753	17	11.0	10.8	30.7	2.5	0.6	1	-1	ship
759	17	6.0	11.5	28.5	1.8	0.6	1	-1	ship
855	17	1.0	11.9	25.6	1.9	0.6	0	-1	ship
918	15	10.0	11.8	25.3	1.4	0.9	0	-1	ship
924	15	5.0	12.6	18.5	2.1	1.0	0	-1	ship
930	15	1.0	13.1	16.6	2.6	1.3	0	-1	ship
1035	13	8.0	11.7	25.7	3.8	3.0	1	-1	ship
1041	13	4.0	13.4	15.4	2.8	1.2	0	-1	ship
1047	13	1.0	13.6	13.1	2.8	1.4	0	-1	ship

		Station		17			15			13	
		Depth	11.0	6.0	1.0	10.0	5.0	1.0	8.0	4.0	1.0
Code	Name					Number per cubic meter					
5	Acartia clausi F		0	1333	267	200	500	0	3333	0	0
6	Acartia clausi M		0	0	0	800	0	0	1000	0	0
7	Acartia clausi C		0	0	800	2200	3000	0	10333	4800	1333
8	Acartia clausi N		2333	2667	11467	4600	18333	15400	2833	33000	38133
100	Eurytemora affinis F		0	0	0	0	0	0	0	0	0
101	Eurytemora affinis M		0	0	0	0	0	0	0	0	0
102	Eurytemora affinis C		0	0	0	0	0	0	0	0	0
143	Sinocalanus dorii F		0	0	0	0	0	0	0	0	0
144	Sinocalanus dorii M		0	0	0	0	0	0	0	0	0
145	Sinocalanus dorii C		0	0	0	0	0	0	0	0	0
196	copepod nauplius A		0	667	0	0	167	0	0	0	0
197	copepod nauplius B		0	0	0	0	0	0	0	0	0
199	copepod nauplius		667	0	0	0	0	0	0	0	0
200	Cyclopoida		333	0	0	0	0	0	0	0	0
213	Oithona spinirostris		333	0	0	0	0	0	0	0	0
250	Harpacticoida		333	1333	0	800	167	0	500	0	0
270	Microsetella sp.		333	0	0	0	0	0	0	0	0
281	Harpacticoid A N		333	0	0	0	0	0	0	0	0
325	Synidotea laticauda imm.		0	0	0	0	0	0	167	0	0
331	Mysid juvenile		0	0	0	0	0	0	0	0	0
401	barnacle nauplius		0	333	0	600	333	0	167	0	0
420	Ostracoda		0	0	0	0	0	0	0	0	0
441	Bosmina sp.		0	0	0	0	0	0	0	0	0
445	Daphnia pulex		0	0	0	0	0	0	0	0	0
505	echinoderm pleuteus larva		333	0	1333	1800	1833	0	0	0	0
602	Tintinnopsis sp. A		1333	0	0	1200	0	400	667	0	267
603	Tintinnopsis sp. B		5000	5667	533	46000	11667	13000	189167	175600	206667
605	Eutintinnus neriticus		667	8333	800	37200	9500	2800	0	800	0
682	flatworm sp. B		0	0	0	0	333	0	167	200	0
701	Synchaeta sp.		3667	1000	3733	1000	500	0	0	3800	267
705	Keratella sp.		0	0	0	0	0	0	0	0	0
751	Ectoprocta larva		0	333	0	0	167	0	0	0	0
821	Bivalvia veliger		1000	0	0	400	167	0	0	0	0
851	polychaete trochophore		333	0	0	0	0	0	0	0	0
855	spionid larva		1000	1333	533	800	500	0	0	0	0
880	scaleworm larva		0	667	0	1000	0	0	0	0	0
						mg Carbon per cubic meter					
			6	11	5	13	10	2	22	9	7

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
90480	80100	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1221	9	8.0	13.6	10.3	3.3	5.5	0	-1	ship
1227	9	5.0	13.8	7.2	2.1	2.5	0	-1	ship
1233	9	1.0	14.4	6.1	2.3	2.0	0	-1	ship
1415	6	7.0	14.3	0.1	2.4	4.4	5	-1	ship
1421	6	4.0	14.3	0.1	2.4	4.4	5	-1	ship
1427	6	1.0	14.2	0.2	2.5	5.2	5	-1	ship
1535	3	8.0	14.4	0.1	2.5	3.3	5	-1	ship
1541	3	5.0	14.4	0.1	2.3	3.1	5	-1	ship
1547	3	1.0	14.4	0.1	2.4	3.2	4	-1	ship

		Station		9			6			3	
		Depth	8.0	5.0	1.0	7.0	4.0	1.0	8.0	5.0	1.0
Code	Name					Number per cubic meter					
5	Acartia clausi F		0	0	0	0	0	0	0	0	0
6	Acartia clausi M		0	0	0	667	0	0	0	0	0
7	Acartia clausi C		667	267	0	0	0	0	0	0	0
8	Acartia clausi N		5667	1600	1333	0	0	0	0	0	0
100	Eurytemora affinis F		0	0	0	1234	1000	333	0	0	0
101	Eurytemora affinis M		0	0	0	1234	1333	333	0	0	0
102	Eurytemora affinis C		0	0	0	667	2333	0	0	0	0
143	Sinocalanus dorii F		0	0	0	667	667	667	555	333	667
144	Sinocalanus dorii M		0	0	0	0	1000	0	0	333	0
145	Sinocalanus dorii C		0	0	0	0	1000	0	0	0	0
196	copepod nauplius A		0	0	0	0	0	0	0	0	0
197	copepod nauplius B		0	0	1333	0	0	0	0	0	0
199	copepod nauplius		0	0	6333	0	0	0	0	0	0
200	Cyclopoida		0	0	333	667	1000	333	1389	2667	1000
213	Oithona spinirostris		0	0	0	0	0	0	0	0	0
250	Harpacticoida		0	800	0	2000	4333	4333	0	0	333
270	Microsetella sp.		0	0	0	0	0	0	0	0	0
281	Harpacticoid A N		0	0	0	0	0	0	0	0	0
325	Synidotea laticauda imm.		0	0	0	0	0	0	0	0	0
331	Mysid juvenile		0	0	0	14	0	0	0	0	0
401	barnacle nauplius		0	0	333	0	0	0	0	0	0
420	Ostracoda		0	0	0	667	0	0	0	0	0
441	Bosmina sp.		0	0	0	667	1000	0	0	667	1000
445	Daphnia pulex		0	0	0	0	0	0	0	333	667
505	echinoderm pleuteus larva		0	0	0	0	0	0	0	0	0
602	Tintinnopsis sp. A		0	0	0	0	0	0	0	0	0
603	Tintinnopsis sp. B		183333	82667	33333	0	0	0	0	0	0
605	Eutintinnus neriticus		333	0	0	0	0	0	0	0	0
682	flatworm sp. B		0	0	0	0	0	0	0	0	0
701	Synchaeta sp.		333	267	333	0	0	0	0	0	0
705	Keratella sp.		0	0	0	0	0	0	0	0	0
751	Ectoprocta larva		0	0	0	0	0	0	0	0	0
821	Bivalvia veliger		0	0	0	0	0	0	0	0	0
851	polychaete trochophore		0	0	0	0	0	0	0	0	0
855	spionid larva		0	0	0	0	0	0	0	0	0
880	scaleworm larva		0	0	0	0	0	0	0	0	0
						mg Carbon per cubic meter					
			3	2	3	20	33	13	9	14	11

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
90480	80100	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1753	657	5.0	13.4	0.1	2.5	3.1	3	-1	ship
1759	657	1.0	13.4	0.1	2.7	3.1	3	-1	ship

	Station	657	
	Depth	5.0	1.0
Code	Name		Number per cubic meter
5	Acartia clausi F	0	0
6	Acartia clausi M	0	0
7	Acartia clausi C	0	0
8	Acartia clausi N	0	0
100	Eurytemora affinis F	0	0
101	Eurytemora affinis M	0	0
102	Eurytemora affinis C	0	0
143	Sinocalanus dorii F	0	0
144	Sinocalanus dorii M	0	0
145	Sinocalanus dorii C	0	0
196	copepod nauplius A	0	0
197	copepod nauplius B	0	0
199	copepod nauplius	0	0
200	Cyclopoida	833	500
213	Oithona spinirostris	0	0
250	Harpacticoida	167	1833
270	Microsetella sp.	0	0
281	Harpacticoid A N	0	0
325	Synidotea laticauda imm.	0	0
331	Mysid juvenile	0	0
401	barnacle nauplius	0	0
420	Ostracoda	0	0
441	Bosmina sp.	0	1833
445	Daphnia pulex	0	167
505	echinoderm pleuteus larva	0	0
602	Tintinnopsis sp. A	0	0
603	Tintinnopsis sp. B	0	0
605	Eutintinnus neriticus	0	0
682	flatworm sp. B	0	0
701	Synchaeta sp.	0	0
705	Keratella sp.	833	0
751	Ectoprocta larva	0	0
821	Bivalvia veliger	0	0
851	polychaete trochophore	0	0
855	spionid larva	0	0
880	scaleworm larva	0	0
			ug Carbon per cubic meter
		3	7

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
90480	80100	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
750	302	2.0	13.4	17.8	2.6	0.9	0	1	ship
815	306	2.5	12.9	18.6	3.2	1.3	0	1	ship
850	312	1.0	13.7	11.4	9.0	3.8	0	0	ship

		Station	302	306	312
		Depth	2.0	2.5	1.0
Code	Name		Number per cubic meter		
5	Acartia clausi F		0	0	0
6	Acartia clausi M		0	0	0
7	Acartia clausi C		1683	5385	3926
8	Acartia clausi N		130246	22549	33094
100	Eurytemora affinis F		0	0	0
102	Eurytemora affinis C		0	1010	0
143	Sinocalanus dorii F		0	0	0
199	copepod nauplius		0	0	0
200	Cyclopoida		0	0	0
250	Harpacticoida		0	0	0
401	barnacle nauplius		0	337	561
441	Bosmina sp.		0	0	0
602	Tintinnopsis sp. A		337	0	1122
603	Tintinnopsis sp. B		91542	144381	392645
605	Eutintinnus neriticus		1346	8750	2244
701	Synchaeta sp.		6731	337	1683
740	Nematoda		0	0	0
821	Bivalvia veliger		0	337	0
855	spionid larva		337	0	0
				mg Carbon per cubic meter	
			16	10	11

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
90480	80100	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
925	318	1.0	14.3	11.3	14.5	5.9	1	0	ship
955	324	1.0	14.9	11.6	39.4	13.9	1	0	ship
1040	334	1.0	13.9	11.6	5.4	2.3	0	0	ship

		Station	318	324	334
		Depth	1.0	1.0	1.0
Code	Name		Number per cubic meter		
5	Acartia clausi F		673	1683	1122
6	Acartia clausi M		0	0	561
7	Acartia clausi C		12116	5890	5048
8	Acartia clausi N		65291	16828	24120
100	Eurytemora affinis F		0	0	0
102	Eurytemora affinis C		0	0	0
143	Sinocalanus dorii F		0	0	0
199	copepod nauplius		0	0	0
200	Cyclopoida		0	0	561
250	Harpacticoida		0	0	561
401	barnacle nauplius		0	0	561
441	Bosmina sp.		0	0	0
602	Tintinnopsis sp. A		673	0	0
603	Tintinnopsis sp. B		452327	569615	311311
605	Eutintinnus neriticus		2019	0	2244
701	Synchaeta sp.		3366	841	1122
740	Nematoda		0	0	0
821	Bivalvia veliger		673	0	561
855	spionid larva		0	0	0
			mg Carbon per cubic meter		
			22	16	16

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
90480	80100	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1400	414	0.5	16.2	0.5	13.4	7.9	4	-1	ship
1435	418	0.5	15.5	0.2	24.0	6.3	3	-1	ship
1800	757	5.0	13.5	0.1	1.2	2.4	3	-1	ship

		Station	414	418	757
		Depth	0.5	0.5	5.0
Code	Name		Number per cubic meter		
5	Acartia clausi F		0	0	0
6	Acartia clausi M		0	0	0
7	Acartia clausi C		0	0	0
8	Acartia clausi N		0	0	0
100	Eurytemora affinis F		561	0	0
102	Eurytemora affinis C		0	0	0
143	Sinocalanus dorii F		0	561	0
199	copepod nauplius		1683	561	0
200	Cyclopoida		1122	2244	2154
250	Harpacticoida		1122	0	1885
401	barnacle nauplius		0	0	0
441	Bosmina sp.		561	561	12385
602	Tintinnopsis sp. A		0	0	0
603	Tintinnopsis sp. B		5609	11779	0
605	Eutintinnus neriticus		0	0	0
701	Synchaeta sp.		0	0	0
740	Nematoda		0	561	0
821	Bivalvia veliger		0	0	0
855	spionid larva		0	0	0
			mg Carbon per cubic meter		
			8	13	30

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
230480	80114	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
722	19	15.0	10.5	32.2	5.7	0.8	1	0	ship
716	19	1.0	11.3	31.4	6.9	0.7	1	0	ship
805	17	12.0	11.2	31.1	6.2	1.0	2	0	ship
811	17	6.0	11.9	29.4	5.0	0.8	1	0	ship
817	17	1.0	13.0	25.8	4.1	0.9	0	0	ship
942	15	11.0	13.2	24.6	4.6	1.0	0	-1	ship
948	15	6.0	14.2	17.3	5.0	1.1	0	-1	ship
954	15	1.0	14.2	16.4	5.3	1.2	0	-1	ship

		Station	19			17			15	
		Depth	15.0	1.0	12.0	6.0	1.0	11.0	6.0	1.0
Code	Name		Number per cubic meter							
5	Acartia clausi F		0	667	2000	1000	0	167	0	0
6	Acartia clausi M		0	0	0	0	0	0	0	0
7	Acartia clausi C		2667	1667	667	333	333	1333	3000	2000
8	Acartia clausi N		333	1000	1000	0	2000	1667	123333	89333
36	Calanus tenuicornis C		0	0	333	0	0	0	0	0
63	Paracalanus parvus N		0	0	0	333	0	0	0	0
100	Eurytemora affinis F		0	0	0	0	0	0	0	0
101	Eurytemora affinis M		0	0	0	0	0	0	0	0
102	Eurytemora affinis C		0	0	0	0	0	0	0	0
143	Sinocalanus dorii F		0	0	0	0	0	0	0	0
145	Sinocalanus dorii C		0	0	0	0	0	0	0	0
191	Epilabidocera longipedata M		0	0	0	0	0	0	333	0
194	copepodite (unknown)		0	0	0	0	0	0	0	0
196	copepod nauplius A		0	0	0	0	667	0	333	0
197	copepod nauplius B		0	0	0	0	0	0	0	0
199	copepod nauplius		1667	2000	1333	2000	9000	1167	0	0
200	Cyclopoida		0	0	0	0	0	0	0	0
210	Oithona spp.		333	0	333	667	0	0	0	0
250	Harpacticoida		333	333	1000	667	0	0	667	0
251	Harpacticoid B (bronze)		0	0	0	0	0	0	0	0
333	Neomysis mercedis juv.		0	0	0	333	0	0	0	0
401	barnacle nauplius		667	0	1000	1000	1333	833	0	0
402	barnacle cypris		333	0	0	0	0	0	0	0
420	Ostracoda		0	0	0	0	0	0	0	0
441	Bosmina sp.		0	0	0	0	0	0	0	0
445	Daphnia pulex		0	0	0	0	0	0	0	0
560	fish larva		0	0	0	0	0	0	0	0
602	Tintinnopsis sp. A		0	1333	1667	333	0	2667	333	333
603	Tintinnopsis sp. B		0	0	0	333	333	9333	1333	0
605	Eutintinnus neriticus		2333	333	1667	1667	0	5333	667	0
608	Parafavella sp.		1333	5333	667	667	667	0	333	0
682	flatworm sp. B		333	1667	0	333	333	0	0	333
701	Synchaeta sp.		0	333	0	333	0	167	0	667
703	Brachionus sp.		0	0	0	0	0	0	0	0
740	Nematoda		1000	0	0	0	0	0	0	0
748	Phoronida larva		333	0	0	0	0	0	0	0
801	Gastropod veliger		333	0	0	0	0	0	0	0
821	Bivalvia veliger		667	0	0	0	0	333	0	0

		Station	19		17			15		
		Depth	15.0	1.0	12.0	6.0	1.0	11.0	6.0	1.0
Code	Name				Number per cubic meter					
851	polychaete trochophore		0	0	0	0	0	0	0	0
852	polychaete larva		2667	2667	1000	2667	0	0	0	0
855	spionid larva		3333	3000	2667	2667	0	1667	333	0
880	scaleworm larva		333	0	333	0	0	0	333	0
					mg Carbon per cubic meter					
			16	13	18	13	4	7	27	11

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
230480	80114	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1050	13	8.0	13.1	25.7	6.5	3.5	1	-1	ship
1056	13	4.0	13.4	24.3	3.5	1.1	0	-1	ship
1102	13	1.0	14.6	16.0	2.5	1.1	0	-1	ship
1257	9	9.0	15.3	8.4	4.5	4.1	0	-1	ship
1303	9	5.0	15.4	7.6	4.6	3.9	1	-1	ship
1309	9	1.0	15.5	6.0	5.7	4.0	0	-1	ship
1445	6	5.0	16.3	0.2	5.7	10.0	5	-1	ship
1451	6	1.0	16.2	0.2	6.8	9.0	5	-1	ship

		Station		13			9			6	
		Depth	8.0	4.0	1.0	9.0	5.0	1.0	5.0	1.0
Code	Name					Number per cubic meter				
5	Acartia clausi F		1667	1333	0	310	917	0	0	0
6	Acartia clausi M		1000	2000	0	0	0	0	0	0
7	Acartia clausi C		3333	9333	2000	2012	2383	100	0	0
8	Acartia clausi N		0	6667	158333	0	0	0	0	0
36	Calanus tenuicornis C		0	0	0	0	0	0	0	0
63	Paracalanus parvus N		0	0	0	0	0	0	0	0
100	Eurytemora affinis F		0	0	0	0	0	0	833	1300
101	Eurytemora affinis M		0	0	0	0	0	0	1000	650
102	Eurytemora affinis C		0	0	0	0	0	0	1667	3900
143	Sinocalanus dorii F		0	0	0	0	0	0	500	650
145	Sinocalanus dorii C		0	0	0	0	0	0	1333	0
191	Epilabidocera longipedata M		0	0	0	0	0	0	0	0
194	copepodite (unknown)		0	0	0	0	0	0	0	0
196	copepod nauplius A		0	0	0	0	0	0	0	0
197	copepod nauplius B		0	0	0	0	0	100	0	0
199	copepod nauplius		0	0	0	0	0	500	0	0
200	Cyclopoida		0	0	0	310	367	350	167	433
210	Oithona spp.		0	0	0	0	0	0	0	0
250	Harpacticoida		0	0	0	0	367	0	167	0
251	Harpacticoid B (bronze)		0	0	0	0	0	0	2000	650
333	Neomysis mercedis juv.		0	0	0	30	10	0	10	217
401	barnacle nauplius		1000	1000	0	619	367	50	0	0
402	barnacle cypris		0	0	0	0	0	0	0	0
420	Ostracoda		0	0	0	0	183	0	0	0
441	Bosmina sp.		0	0	0	0	0	0	0	0
445	Daphnia pulex		0	0	0	0	0	0	0	0
560	fish larva		0	0	0	0	1	0	0	0
602	Tintinnopsis sp. A		667	8667	0	1083	550	0	0	0
603	Tintinnopsis sp. B		16667	0	333	0	4583	150	0	0
605	Eutintinnus neriticus		4667	14333	0	155	0	0	0	0
608	Parafavella sp.		0	0	0	0	0	0	0	0
682	flatworm sp. B		667	0	0	0	0	0	0	0
701	Synchaeta sp.		0	0	0	0	0	0	0	0
703	Brachionus sp.		0	0	0	0	0	0	0	0
740	Nematoda		0	0	0	0	0	0	0	0
748	Phoronida larva		0	0	0	0	0	0	0	0
801	Gastropod veliger		0	0	0	0	0	0	0	0
821	Bivalvia veliger		667	0	0	0	0	0	0	0

		Station		13			9			6
		Depth	8.0	4.0	1.0	9.0	5.0	1.0	5.0	1.0
Code	Name					Number per cubic meter				
851	polychaete trochophore		333	333	0	0	0	0	0	0
852	polychaete larva		667	667	0	0	0	0	0	0
855	spionid larva		2000	667	0	155	0	0	0	0
880	scaleworm larva		0	0	0	0	0	0	0	0
						mg Carbon per cubic meter				
			17	19	17	5	7	1	18	17

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
230480	80114	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1610	3	9.0	16.1	0.1	3.4	4.3	5	-1	ship
1616	3	5.0	16.2	0.1	3.4	4.3	5	-1	ship
1622	3	1.0	16.3	0.1	3.4	3.6	2	-1	ship
1755	657	5.0	14.2	0.1	5.0	1.9	3	0	ship
1801	657	1.0	14.2	0.1	5.0	1.9	3	0	ship

		Station	3			657	
		Depth	9.0	5.0	1.0	5.0	1.0
Code	Name					Number per cubic meter	
5	Acartia clausi F		0	0	0	0	0
6	Acartia clausi M		0	0	0	0	0
7	Acartia clausi C		0	0	0	0	0
8	Acartia clausi N		0	0	0	0	0
36	Calanus tenuicornis C		0	0	0	0	0
63	Paracalanus parvus N		0	0	0	0	0
100	Eurytemora affinis F		0	0	0	0	0
101	Eurytemora affinis M		0	0	0	0	0
102	Eurytemora affinis C		0	0	0	0	0
143	Sinocalanus dorii F		1875	533	325	0	0
145	Sinocalanus dorii C		625	0	0	0	0
191	Epilabidocera longipedata M		0	0	0	0	0
194	copepodite (unknown)		0	0	0	83	67
196	copepod nauplius A		0	0	0	0	0
197	copepod nauplius B		0	0	0	0	0
199	copepod nauplius		0	0	0	83	67
200	Cyclopoida		625	533	433	167	67
210	Oithona spp.		0	0	0	0	0
250	Harpacticoida		938	667	867	417	1800
251	Harpacticoid B (bronze)		0	0	0	0	0
333	Neomysis mercedis juv.		0	0	0	0	0
401	barnacle nauplius		0	0	0	0	133
402	barnacle cypris		0	0	0	0	0
420	Ostracoda		0	0	0	0	0
441	Bosmina sp.		625	133	1408	0	867
445	Daphnia pulex		312	0	0	0	67
560	fish larva		0	0	0	0	0
602	Tintinnopsis sp. A		0	0	0	0	0
603	Tintinnopsis sp. B		0	0	0	0	0
605	Eutintinnus neriticus		0	0	0	0	0
608	Parafavella sp.		0	0	0	0	0
682	flatworm sp. B		0	0	0	0	0
701	Synchaeta sp.		0	0	0	0	0
703	Brachionus sp.		0	0	0	0	67
740	Nematoda		0	0	0	0	0
748	Phoronida larva		0	0	0	0	0
801	Gastropod veliger		0	0	0	0	0
821	Bivalvia veliger		0	0	0	0	0
851	polychaete trochophore		0	0	0	0	0
852	polychaete larva		0	0	0	0	0
855	spionid larva		0	0	0	0	0

	Station		3		657	
	Depth	9.0	5.0	1.0	5.0	1.0
Code	Name				Number per cubic meter	
BB0	scaleworm larva	0	0	0	0	0
					mg Carbon per cubic meter	
		21	7	7	1	4

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
230480	80114	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
800	302	1.5	13.7	15.3	3.5	1.2	0	-1	ship
825	306	3.0	13.7	14.1	4.0	1.3	0	-1	ship
850	312	1.0	14.1	11.2	4.0	1.4	0	0	ship

		Station	302	306	312
		Depth	1.5	3.0	1.0
Code	Name			Number per cubic meter	
5	Acartia clausi F		0	267	267
6	Acartia clausi M		133	1333	0
7	Acartia clausi C		933	4800	6400
8	Acartia clausi N		133	5600	61867
197	copepod nauplius B		0	0	0
250	Harpacticoida		400	0	0
280	Harpacticoid sp.A		0	267	0
401	barnacle nauplius		267	1067	1333
402	barnacle cypris		267	267	0
602	Tintinnopsis sp. A		667	8800	533
603	Tintinnopsis sp. B		0	0	0
605	Eutintinnus neriticus		400	2933	0
660	Hydrozoa		0	267	0
682	flatworm sp. B		0	267	0
701	Synchaeta sp.		0	0	0
801	Gastropod veliger		0	800	0
821	Bivalvia veliger		0	533	0
852	polychaete larva		533	267	0
855	spionid larva		1067	533	0
				mg Carbon per cubic meter	
			5	12	14

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
230480	80114	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
925	318	1.5	14.2	11.5	5.1	1.3	0	0	ship
1000	324	1.0	14.0	13.1	12.6	2.6	0	0	ship
1050	334	0.5	14.3	14.1	5.0	2.2	2	-1	ship

		Station	318	324	334
		Depth	1.5	1.0	0.5
Code	Name			Number per cubic meter	
5	Acartia clausi F		0	1600	333
6	Acartia clausi M		0	0	0
7	Acartia clausi C		2933	24000	11667
8	Acartia clausi N		0	13333	32000
197	copepod nauplius B		0	267	0
250	Harpacticoida		267	0	0
280	Harpacticoid sp.A		0	0	0
401	barnacle nauplius		800	267	1000
402	barnacle cypris		0	0	0
602	Tintinnopsis sp. A		1333	267	667
603	Tintinnopsis sp. B		45333	0	667
605	Eutintinnus neriticus		800	267	333
660	Hydrozoa		0	0	0
682	flatworm sp. B		0	0	0
701	Synchaeta sp.		0	0	0
801	Gastropod veliger		0	0	0
821	Bivalvia veliger		0	0	0
852	polychaete larva		0	0	0
855	spionid larva		0	0	0
				mg Carbon per cubic meter	
			4	25	15

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
80580	80129	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
744	17	15.0	11.7	31.3	10.5	1.3	1	-1	ship
750	17	5.0	12.5	29.8	4.2	0.9	0	-1	ship
756	17	1.0	12.9	29.0	5.3	0.9	0	-1	ship
925	15	10.0	13.7	27.1	3.1	1.1	0	-1	ship
931	15	5.0	14.5	24.3	4.0	1.2	0	-1	ship
937	15	1.0	14.7	20.3	9.0	1.2	0	-1	ship
1043	13	8.0	14.6	24.1	3.2	1.6	0	-1	ship
1049	13	5.0	14.6	24.1	4.0	1.6	0	-1	ship
1055	13	1.0	16.1	15.7	8.1	1.1	0	-1	ship

		Station	17			15			13	
		Depth	15.0	5.0	1.0	10.0	5.0	1.0	8.0	5.0	1.0
Code	Name		Number per cubic meter								
5	Acartia clausi F		800	200	0	0	0	200	2600	0	0
6	Acartia clausi M		0	0	200	0	0	0	2200	300	0
7	Acartia clausi C		800	1400	600	1600	400	11800	17400	13200	8800
8	Acartia clausi N		2400	1600	1000	7800	3000	11800	5800	12600	22200
100	Eurytemora affinis F		0	0	0	0	0	0	0	0	0
101	Eurytemora affinis M		0	0	0	0	0	0	0	0	0
102	Eurytemora affinis C		0	0	0	0	0	0	0	0	0
143	Sinocalanus dorii F		0	0	0	0	0	0	0	0	0
144	Sinocalanus dorii M		0	0	0	0	0	0	0	0	0
145	Sinocalanus dorii C		0	0	0	0	0	0	0	0	0
194	copepodite (unknown)		0	0	0	0	0	0	0	0	0
196	copepod nauplius A		400	400	0	200	0	200	0	0	0
199	copepod nauplius		0	1000	400	0	0	200	0	0	0
200	Cyclopoida		0	0	0	0	0	0	0	0	0
201	Cyclopoid A (large-low sal)		0	0	0	0	0	0	0	0	0
250	Harpacticoida		1200	200	400	200	0	0	0	0	0
251	Harpacticoid B (bronze)		0	0	0	0	0	0	0	0	0
333	Neomysis mercedis Juv.		0	0	0	0	0	0	0	0	0
401	barnacle nauplius		0	400	0	400	0	2200	400	0	1000
402	barnacle cypris		0	0	0	0	0	200	0	0	0
441	Bosmina sp.		0	0	0	0	0	0	0	0	0
445	Daphnia pulex		0	0	0	0	0	0	0	0	0
541	Dikopleuridae		400	200	0	400	200	0	0	0	0
602	Tintinnopsis sp. A		0	0	0	200	0	800	2600	12600	0
603	Tintinnopsis sp. B		800	400	0	200	0	0	0	0	0
608	Parafavella sp.		2000	1800	7800	1400	0	200	0	0	0
682	flatworm sp. B		0	0	0	0	0	0	0	300	0
700	Rotifera		0	0	0	0	0	0	0	0	0
701	Synchaeta sp.		400	0	0	0	0	0	0	0	0
703	Brachionus sp.		0	0	0	0	0	0	0	0	0
748	Phoronida larva		0	200	0	0	200	200	400	300	0
801	Gastropod veliger		0	200	0	0	0	200	0	0	0
821	Bivalvia veliger		0	200	0	400	0	200	800	0	0
851	polychaete trochophore		0	200	0	0	0	0	0	0	0
855	spionid larva		0	800	1400	2200	400	1800	200	900	0
880	scaleworm larva		800	1000	0	200	0	0	0	0	0
			mg Carbon per cubic meter								
			7	8	5	9	2	19	26	15	11

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
80580	80129	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1230	9	10.0	16.7	9.3	6.3	4.6	1	-1	ship
1236	9	5.0	16.8	8.7	5.9	4.1	0	-1	ship
1242	9	1.0	16.8	8.0	5.3	2.8	0	-1	ship
1420	6	8.0	17.4	0.3	7.3	8.6	5	-1	ship
1426	6	5.0	17.4	0.3	7.3	8.3	4	-1	ship
1432	6	1.0	17.4	0.4	7.5	7.2	5	-1	ship
1544	3	10.0	17.9	0.1	4.7	4.1	5	-1	ship
1550	3	5.0	17.9	0.1	4.7	4.1	5	-1	ship
1556	3	1.0	17.9	0.1	4.7	4.5	4	-1	ship

		Station		9			6			3	
		Depth	10.0	5.0	1.0	8.0	5.0	1.0	10.0	5.0	1.0
Code	Name					Number per cubic meter					
5	Acartia clausi F		1667	1300	0	0	0	0	0	0	0
6	Acartia clausi M		1000	433	0	0	0	0	0	0	0
7	Acartia clausi C		2667	2383	61	0	0	0	0	0	0
8	Acartia clausi N		333	0	122	0	0	0	0	0	0
100	Eurytemora affinis F		0	0	0	467	933	400	0	0	0
101	Eurytemora affinis M		0	0	0	467	400	0	0	0	0
102	Eurytemora affinis C		0	0	0	700	933	600	267	533	0
143	Sinocalanus dorii F		0	0	0	0	0	0	2667	667	400
144	Sinocalanus dorii M		0	0	0	700	0	600	1067	333	400
145	Sinocalanus dorii C		0	0	0	933	133	200	533	167	400
194	copepodite (unknown)		0	0	0	0	0	0	0	167	0
196	copepod nauplius A		0	0	0	0	0	0	0	0	0
199	copepod nauplius		0	0	0	0	0	200	0	0	0
200	Cyclopoida		0	0	0	0	0	0	533	0	0
201	Cyclopoid A (large-low sal)		0	0	0	233	0	400	0	500	800
250	Harpacticoida		0	0	0	0	267	0	0	667	800
251	Harpacticoid B (bronze)		0	0	0	0	1200	600	0	0	0
333	Neomysis mercedis juv.		0	0	0	0	1	0	533	0	0
401	barnacle nauplius		0	1083	122	0	0	0	0	0	0
402	barnacle cypris		0	0	0	0	0	0	0	0	0
441	Bosmina sp.		0	0	0	0	0	0	533	500	1800
445	Daphnia pulex		0	0	0	0	0	0	0	833	600
541	Oikopleuridae		0	0	0	0	0	0	0	0	0
602	Tintinnopsis sp. A		1667	1300	122	0	0	0	0	0	0
603	Tintinnopsis sp. B		0	0	0	0	0	0	0	0	0
608	Parafavella sp.		0	0	0	0	0	0	0	0	0
682	flatworm sp. B		0	0	0	0	0	0	0	0	0
700	Rotifera		0	0	0	0	0	0	0	0	0
701	Synchaeta sp.		0	0	0	0	0	0	0	0	0
703	Brachionus sp.		0	0	0	0	0	0	0	0	0
748	Phoronida larva		0	0	0	0	0	0	0	0	0
801	Gastropod veliger		0	0	0	0	0	0	0	0	0
821	Bivalvia veliger		0	0	0	0	0	0	0	0	0
851	polychaete trochophore		0	217	0	0	0	0	0	0	0
855	spionid larva		0	0	0	0	0	0	0	0	0
880	scaleworm larva		0	0	0	0	0	0	0	0	0
						mg Carbon per cubic meter					
			8	8	0	11	7	8	32	13	15

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
80580	80129	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1855	657	2.0	17.4	0.0	16.2	2.2	0	-1	ship

Station 657
Depth 2.0

Code	Name	Number per cubic meter
5	Acartia clausi F	0
6	Acartia clausi M	0
7	Acartia clausi C	0
8	Acartia clausi N	0
100	Eurytemora affinis F	0
101	Eurytemora affinis M	0
102	Eurytemora affinis C	0
143	Sinocalanus dorii F	0
144	Sinocalanus dorii M	0
145	Sinocalanus dorii C	0
194	copepodite (unknown)	0
196	copepod nauplius A	0
199	copepod nauplius	0
200	Cyclopoida	0
201	Cyclopoid A (large-low sal)	267
250	Harpacticoida	1600
251	Harpacticoid B (bronze)	0
333	Neomysis mercedis juv.	0
401	barnacle nauplius	0
402	barnacle cypris	0
441	Bosmina sp.	1200
445	Daphnia pulex	0
541	Oikopleuridae	0
602	Tintinnopsis sp. A	0
603	Tintinnopsis sp. B	0
608	Parafavella sp.	0
682	flatworm sp. B	0
700	Rotifera	133
701	Synchaeta sp.	0
703	Brachionus sp.	133
748	Phoronida larva	0
801	Gastropod veliger	0
821	Bivalvia veliger	0
851	polychaete trochophore	0
855	spionid larva	0
880	scaleworm larva	0

	mg Carbon per cubic meter
	5

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
80580	80129	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
805	302	2.0	15.4	20.8	6.5	1.8	0	0	ship
830	306	3.0	15.4	20.7	6.4	1.1	0	1	ship
905	312	1.0	16.4	14.5	19.9	1.8	0	-1	ship

		Station	302	306	312
		Depth	2.0	3.0	1.0
Code	Name		Number per cubic meter		
5	Acartia clausi F		0	0	400
6	Acartia clausi M		0	0	0
7	Acartia clausi C		3556	10462	3200
8	Acartia clausi N		3556	4923	5600
100	Eurytemora affinis F		0	0	0
101	Eurytemora affinis M		444	0	0
102	Eurytemora affinis C		0	0	0
143	Sinocalanus dorii F		0	0	0
144	Sinocalanus dorii M		0	0	0
145	Sinocalanus dorii C		0	0	0
194	copepodite (unknown)		0	0	0
197	copepod nauplius B		0	0	0
198	copepod nauplius C		444	0	0
199	copepod nauplius		0	0	0
200	Cyclopoida		0	0	0
201	Cyclopoid A (large-low sal)		0	0	0
250	Harpacticoida		889	0	0
300	Amphipoda		0	0	0
401	barnacle nauplius		0	615	1200
441	Bosmina sp.		0	0	0
445	Daphnia pulex		0	0	0
602	Tintinnopsis sp. A		0	1231	2000
603	Tintinnopsis sp. B		0	0	400
605	Eutintinnus neriticus		0	0	0
701	Synchaeta sp.		444	0	0
821	Bivalvia veliger		1333	0	800
855	spionid larva		889	2154	0
880	scaleworm larva		444	0	0
				mg Carbon per cubic meter	
			9	15	6

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
80580	80129	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1030	318	1.0	17.1	16.1	25.3	2.8	0	-1	ship
1105	324	0.5	17.1	17.0	12.4	9.2	0	-1	ship
1150	334	0.5	17.4	15.7	10.7	1.2	0	-1	ship

		Station	318	324	334
		Depth	1.0	0.5	0.5
Code	Name			Number per cubic meter	
5	Acartia clausi F		0	5500	444
6	Acartia clausi M		0	2500	0
7	Acartia clausi C		0	68500	4000
8	Acartia clausi N		1143	8000	15556
100	Eurytemora affinis F		0	0	0
101	Eurytemora affinis M		0	0	0
102	Eurytemora affinis C		0	0	0
143	Sinocalanus dorii F		0	0	0
144	Sinocalanus dorii M		0	0	0
145	Sinocalanus dorii C		0	0	0
194	copepodite (unknown)		0	0	0
197	copepod nauplius B		0	0	2667
198	copepod nauplius C		0	0	0
199	copepod nauplius		0	0	0
200	Cyclopoida		0	0	0
201	Cyclopoid A (large-low sal)		0	0	0
250	Harpacticoida		0	0	444
300	Amphipoda		0	0	0
401	barnacle nauplius		571	0	4889
441	Bosmina sp.		0	0	0
445	Daphnia pulex		0	0	0
602	Tintinnopsis sp. A		571	49500	889
603	Tintinnopsis sp. B		0	1000	444
605	Eutintinnus neriticus		0	500	0
701	Synchaeta sp.		0	0	0
821	Bivalvia veliger		0	0	0
855	spionid larva		571	0	1333
880	scaleworm larva		0	0	0
				mg Carbon per cubic meter	
			2	75	17

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
80580	80129	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1445	414	1.0	18.9	0.7	28.5	13.2	4	-1	ship
1525	419	0.5	17.5	0.8	12.1	21.4	1	-1	ship
1925	757	5.0	18.2	0.2	1.6	2.5	5	-1	ship

		Station	414	419	757
		Depth	1.0	0.5	5.0
Code	Name		Number per cubic meter		
5	Acartia clausi F		0	0	0
6	Acartia clausi M		0	0	0
7	Acartia clausi C		0	0	0
8	Acartia clausi N		0	0	0
100	Eurytemora affinis F		0	200	0
101	Eurytemora affinis M		0	0	0
102	Eurytemora affinis C		0	200	0
143	Sinocalanus dorii F		0	0	2400
144	Sinocalanus dorii M		200	0	2000
145	Sinocalanus dorii C		800	200	600
194	copepodite (unknown)		200	0	0
197	copepod nauplius B		0	0	0
198	copepod nauplius C		0	0	0
199	copepod nauplius		400	200	0
200	Cyclopoida		0	0	0
201	Cyclopoid A (large-low sal)		200	400	0
250	Harpacticoida		400	200	2400
300	Amphipoda		0	1	0
401	barnacle nauplius		0	0	0
441	Bosmina sp.		0	0	13000
445	Daphnia pulex		0	0	12000
602	Tintinnopsis sp. A		0	0	0
603	Tintinnopsis sp. B		0	0	0
605	Eutintinnus neriticus		0	0	0
701	Synchaeta sp.		0	0	0
821	Bivalvia veliger		0	0	0
855	spionid larva		0	0	0
880	scaleworm larva		0	0	0
			ug Carbon per cubic meter		
			6	3	70

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
220580	80143	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
618	19	14.0	11.8	31.2	2.8	0.9	1	1	ship
624	19	7.0	11.8	31.1	2.8	0.9	0	1	ship
612	19	1.0	11.8	31.0	2.8	0.9	0	1	ship
708	17	15.0	12.1	30.6	6.7	1.3	2	1	ship
714	17	8.0	12.9	29.2	5.5	1.1	1	1	ship
720	17	1.0	13.9	25.6	4.3	1.1	0	1	ship
831	15	15.0	13.3	27.9	3.8	1.4	1	-1	ship
837	15	8.0	14.0	26.2	4.2	1.5	0	-1	ship
843	15	1.0	14.7	23.1	6.0	1.7	0	-1	ship

		Station	19			17			15	
		Depth	14.0	7.0	1.0	15.0	8.0	1.0	15.0	8.0	1.0
Code	Name		Number per cubic meter								
5	Acartia clausi F		83	167	0	2400	2400	0	3000	2000	0
6	Acartia clausi M		0	0	0	0	0	0	0	400	0
7	Acartia clausi C		500	333	400	1050	2400	350	3250	2800	167
8	Acartia clausi N		83	1500	600	150	533	583	500	1200	167
100	Eurytemora affinis F		0	0	0	0	0	0	0	0	0
101	Eurytemora affinis M		0	0	0	0	0	0	0	0	0
102	Eurytemora affinis C		0	0	0	0	0	0	0	0	0
143	Sinocalanus dorii F		0	0	0	0	0	0	0	0	0
144	Sinocalanus dorii M		0	0	0	0	0	0	0	0	0
145	Sinocalanus dorii C		0	0	0	0	0	0	0	0	0
194	copepodite (unknown)		0	0	0	0	0	0	0	0	0
195	copepod nauplius D		0	0	200	0	0	0	0	0	0
199	copepod nauplius		0	167	0	0	0	0	0	0	0
200	Cyclopoida		0	0	0	0	0	0	0	0	0
201	Cyclopoid A (large-low sal)		0	0	0	0	0	0	0	0	0
250	Harpacticoida		0	333	0	0	0	117	0	200	0
251	Harpacticoid B (bronze)		0	0	0	0	0	0	0	0	0
270	Microsetella sp.		0	0	100	0	0	0	0	0	0
300	Amphipoda		0	0	0	0	0	0	1	0	0
325	Synidotea laticauda imm.		0	0	0	0	0	0	0	200	0
333	Neomysis mercedis juv.		0	0	0	0	0	0	0	0	0
401	barnacle nauplius		250	333	300	450	267	233	0	1200	417
420	Ostracoda		0	0	0	0	0	0	0	0	0
441	Bosmina sp.		0	0	0	0	0	0	0	0	0
445	Daphnia pulex		0	0	0	0	0	0	0	0	0
582	Engraulis mordax larva		0	0	0	0	0	0	0	0	0
602	Tintinnopsis sp. A		0	0	0	0	0	0	0	400	83
603	Tintinnopsis sp. B		8250	2333	1700	2400	0	0	0	200	83
681	flatworm sp. A		0	0	0	0	0	0	0	0	0
682	flatworm sp. B		0	0	0	0	0	0	0	0	83
700	Rotifera		0	0	0	0	0	0	0	0	0
703	Brachionus sp.		0	0	0	0	0	0	0	0	0
748	Phoronida larva		0	833	0	150	0	0	0	0	0
821	Bivalvia veliger		0	333	0	150	0	0	0	0	0
850	Polychaeta		0	0	0	0	0	0	0	0	0
851	polychaete trochophore		83	0	0	0	0	0	250	0	0
855	spionid larva		417	2333	300	0	0	117	250	600	417

	Station		19			17			15	
	Depth	14.0	7.0	1.0	15.0	8.0	1.0	15.0	8.0	1.0
Code	Name				Number per cubic meter					
880	scaleworm larva	0	167	100	0	267	0	250	200	0
					mg Carbon per cubic meter					
		2	8	2	8	10	1	12	12	2

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
220580	80143	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
934	13	10.0	14.5	25.2	11.0	2.0	2	-1	ship
940	13	5.0	14.8	23.5	6.0	1.6	0	-1	ship
946	13	1.0	16.2	16.0	4.0	1.9	0	-1	ship
1107	9	14.0	17.0	13.1	13.0	3.6	1	-1	ship
1113	9	7.0	17.1	11.0	12.0	4.2	1	-1	ship
1119	9	1.0	17.1	8.0	11.7	3.9	1	-1	ship
1244	6	6.0	18.5	0.7	12.8	8.4	4	-1	ship
1250	6	1.0	18.7	0.5	12.8	6.2	0	-1	ship

		Station		13			9			6
		Depth	10.0	5.0	1.0	14.0	7.0	1.0	6.0	1.0
Code	Name					Number per cubic meter				
5	Acartia clausi F		4200	433	0	9067	10667	0	0	0
6	Acartia clausi M		4200	1083	0	1600	1333	0	0	0
7	Acartia clausi C		4600	5417	825	1333	2533	0	0	0
8	Acartia clausi N		400	0	92	0	0	0	0	0
100	Eurytemora affinis F		0	0	0	0	0	0	550	0
101	Eurytemora affinis M		0	0	0	0	0	0	0	167
102	Eurytemora affinis C		0	0	0	0	0	0	0	583
143	Sinocalanus dorii F		0	0	0	0	0	0	733	83
144	Sinocalanus dorii M		0	0	0	0	0	0	550	167
145	Sinocalanus dorii C		0	0	0	0	0	0	2750	250
194	copepodite (unknown)		0	0	0	0	0	0	183	0
195	copepod nauplius D		0	0	0	0	0	0	0	0
199	copepod nauplius		0	217	0	0	0	0	183	250
200	Cyclopoida		0	0	0	0	0	0	0	0
201	Cyclopoid A (large-low sal)		0	0	0	0	0	0	183	250
250	Harpacticoida		0	217	0	0	0	0	183	583
251	Harpacticoid B (bronze)		0	0	0	0	0	0	0	0
270	Microsetella sp.		0	0	0	0	0	0	0	0
300	Amphipoda		0	0	0	0	0	0	0	0
325	Synidotea laticauda imm.		0	0	0	0	0	0	0	0
333	Neomysis mercedis juv.		0	0	0	3	6	0	10	0
401	barnacle nauplius		200	217	733	0	133	2167	0	0
420	Ostracoda		0	0	0	0	133	0	0	0
441	Bosmina sp.		0	0	0	0	0	0	0	0
445	Daphnia pulex		0	0	0	0	0	0	0	0
582	Engraulis mordax larva		0	0	0	0	0	0	0	0
602	Tintinnopsis sp. A		2000	4550	0	6400	6400	0	0	83
603	Tintinnopsis sp. B		0	0	0	0	0	0	183	0
681	flatworm sp. A		400	0	0	0	0	0	0	0
682	flatworm sp. B		0	0	0	0	0	0	0	0
700	Rotifera		0	0	0	0	0	0	0	0
703	Brachionus sp.		0	0	0	0	0	0	0	0
748	Phoronida larva		0	0	0	0	0	0	0	0
821	Bivalvia veliger		0	0	0	0	0	0	0	0
850	Polychaeta		0	0	0	0	0	0	0	0
851	polychaete trochophore		0	0	0	0	0	0	0	0
855	spionid larva		1000	433	92	0	0	0	0	0
880	scaleworm larva		0	0	0	0	0	0	0	0

Code	Name	Station 13, Depth 10.0	13, 5.0	13, 1.0	Station 9, Depth 14.0	9, 7.0	9, 1.0	Station 6, Depth 6.0	6, 1.0
		Number per cubic meter							
995	green flat macroalga	0	0	0	0	0	0	0	1
		mg Carbon per cubic meter							
		24	9	2	29	34	3	21	5

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
220580	80143	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1403	3	10.0	18.8	0.1	2.9	4.5	5	-1	ship
1409	3	5.0	18.8	0.1	2.8	4.2	5	-1	ship
1415	3	1.0	18.9	0.1	2.7	3.5	4	-1	ship
1658	657	5.0	19.2	0.0	6.6	2.1	1	-1	ship
1704	657	1.0	19.2	0.1	6.5	2.3	0	-1	ship

		Station	3			657	
		Depth	10.0	5.0	1.0	5.0	1.0
Code	Name					Number per cubic meter	
5	Acartia clausi F		0	0	0	0	0
6	Acartia clausi M		0	0	0	0	0
7	Acartia clausi C		0	0	0	0	0
8	Acartia clausi N		0	0	0	0	0
100	Eurytemora affinis F		0	0	0	0	0
101	Eurytemora affinis M		0	0	0	0	0
102	Eurytemora affinis C		0	0	0	0	0
143	Sinocalanus dorii F		150	183	0	0	0
144	Sinocalanus dorii M		300	0	100	0	0
145	Sinocalanus dorii C		0	183	0	0	0
194	copepodite (unknown)		0	0	0	0	0
195	copepod nauplius D		0	0	0	0	0
199	copepod nauplius		0	0	0	67	0
200	Cyclopoida		0	0	0	0	133
201	Cyclopoid A (large-low sal)		300	0	300	0	0
250	Harpacticoida		300	733	600	67	600
251	Harpacticoid B (bronze)		0	0	100	0	0
270	Microsetella sp.		0	0	0	0	0
300	Amphipoda		0	0	0	0	0
325	Synidotea laticauda imm.		0	0	0	0	0
333	Neomysis mercedis juv.		5	0	0	0	0
401	barnacle nauplius		0	0	0	0	0
420	Ostracoda		0	0	0	0	0
441	Bosmina sp.		0	0	100	267	267
445	Daphnia pulex		900	1467	700	67	133
582	Engraulis mordax larva		0	0	1	0	0
602	Tintinnopsis sp. A		0	0	0	0	0
603	Tintinnopsis sp. B		0	0	0	0	0
681	flatworm sp. A		0	0	0	0	0
682	flatworm sp. B		0	0	0	0	0
700	Rotifera		0	0	0	0	133
703	Brachionus sp.		0	0	0	67	0
748	Phoronida larva		0	0	0	0	0
821	Bivalvia veliger		0	0	0	0	0
850	Polychaeta		0	0	0	0	0
851	polychaete trochophore		0	0	0	0	0
855	spionid larva		0	0	0	0	0
880	scaleworm larva		0	0	0	0	0
						mg Carbon per cubic meter	
			5	4	3	1	2

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
220580	80143	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
650	302	2.0	16.1	17.0	7.6	2.9	0	1	ship
715	306	3.0	16.0	18.9	9.0	2.4	0	1	ship
745	312	1.0	16.5	18.4	25.5	5.8	0	1	ship

		Station	302	306	312
		Depth	2.0	3.0	1.0
Code	Name		Number per cubic meter		
5	Acartia clausi F		93	0	2222
6	Acartia clausi M		93	0	2667
7	Acartia clausi C		370	500	1778
8	Acartia clausi N		93	0	0
100	Eurytemora affinis F		0	0	0
101	Eurytemora affinis M		0	0	0
102	Eurytemora affinis C		0	0	0
143	Sinocalanus dorii F		0	0	0
144	Sinocalanus dorii M		0	0	0
145	Sinocalanus dorii C		0	0	0
199	copepod nauplius		0	0	0
250	Harpacticoida		0	0	0
251	Harpacticoid B (bronze)		0	0	0
281	Harpacticoid A N		93	0	0
333	Neomysis mercedis juv.		0	0	0
401	barnacle nauplius		185	333	0
602	Tintinnopsis sp. A		0	0	0
603	Tintinnopsis sp. B		0	0	0
682	flatworm sp. B		0	0	444
748	Phoronida larva		0	167	0
855	spionid larva		93	500	444
			mg Carbon per cubic meter		
			1	2	13

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
220580	80143	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
820	318	1.0	17.0	14.1	49.2	10.0	0	0	ship
850	324	1.0	17.4	13.0	28.1	14.8	1	1	ship
935	334	1.0	17.1	16.4	11.2	2.2	1	1	ship

		Station	318	324	334
		Depth	1.0	1.0	1.0
Code	Name		Number per cubic meter		
5	Acartia clausi F		833	2500	0
6	Acartia clausi M		0	833	0
7	Acartia clausi C		10833	2500	0
8	Acartia clausi N		833	0	0
100	Eurytemora affinis F		0	0	0
101	Eurytemora affinis M		0	0	0
102	Eurytemora affinis C		0	0	0
143	Sinocalanus dorii F		0	0	0
144	Sinocalanus dorii M		0	0	0
145	Sinocalanus dorii C		0	0	0
199	copepod nauplius		0	0	1458
250	Harpacticoida		0	0	208
251	Harpacticoid B (bronze)		0	0	0
281	Harpacticoid A N		0	0	0
333	Neomysis mercedis juv.		0	0	0
401	barnacle nauplius		0	833	0
602	Tintinnopsis sp. A		833	0	416
603	Tintinnopsis sp. B		0	0	1667
682	flatworm sp. B		0	0	0
748	Phoronida larva		0	0	0
855	spionid larva		1667	0	416
				mg Carbon per cubic meter	
			15	11	1

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
220580	80143	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1255	414	0.5	19.6	0.5	23.2	16.1	3	-1	ship
1325	418	1.0	18.3	0.5	41.4	32.1	5	-1	ship

	Station	414	418
	Depth	0.5	1.0
Code	Name	Number per cubic meter	
5	Acartia clausi F	0	0
6	Acartia clausi M	0	0
7	Acartia clausi C	0	0
8	Acartia clausi N	0	0
100	Eurytemora affinis F	0	97
101	Eurytemora affinis M	0	194
102	Eurytemora affinis C	0	194
143	Sinocalanus dorii F	233	194
144	Sinocalanus dorii M	117	0
145	Sinocalanus dorii C	0	97
199	copepod nauplius	0	97
250	Harpacticoida	233	194
251	Harpacticoid B (bronze)	117	97
281	Harpacticoid A N	0	0
333	Neomysis mercedis juv.	8	0
401	barnacle nauplius	0	0
602	Tintinnopsis sp. A	0	0
603	Tintinnopsis sp. B	0	0
682	flatworm sp. B	0	0
748	Phoronida larva	0	0
855	spionid larva	0	0
		mg Carbon per cubic meter	
		3	3

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
50680	80157	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
619	17	14.0	12.3	31.0	6.8	1.3	2	0	ship
625	17	7.0	12.5	30.6	3.9	0.8	2	0	ship
631	17	1.0	13.6	29.8	3.9	0.7	0	0	ship
759	15	11.0	14.0	27.0	4.0	1.6	0	-1	ship
805	15	5.0	14.8	24.1	4.0	1.4	0	-1	ship
811	15	1.0	15.2	21.5	5.8	1.7	0	-1	ship
929	13	9.0	14.9	23.6	6.3	1.6	1	-1	ship
935	13	5.0	14.9	23.6	6.3	1.5	0	-1	ship
942	13	1.0	16.2	14.9	10.2	1.6	0	-1	ship

		Station	17			15			13	
		Depth	14.0	7.0	1.0	11.0	5.0	1.0	9.0	5.0	1.0
Code	Name					Number per cubic meter					
5	Acartia clausi F		2200	2400	0	167	0	0	2800	3800	0
6	Acartia clausi M		0	0	0	167	0	0	0	600	0
7	Acartia clausi C		2400	1400	0	1167	2133	1867	2133	8600	67
8	Acartia clausi N		400	800	1600	2500	5867	667	133	2200	0
100	Eurytemora affinis F		0	0	0	0	0	0	0	0	0
101	Eurytemora affinis M		0	0	0	0	0	0	0	0	0
102	Eurytemora affinis C		0	0	0	0	0	0	0	0	0
143	Sinocalanus dorii F		0	0	0	0	0	0	0	0	0
144	Sinocalanus dorii M		0	0	0	0	0	0	0	0	0
145	Sinocalanus dorii C		0	0	0	0	0	0	0	0	0
194	copepodite (unknown)		0	0	0	0	0	0	0	0	0
201	Cyclopoid A (large-low sal)		0	0	0	0	0	0	0	0	0
250	Harpacticoida		400	600	0	0	267	0	0	0	0
251	Harpacticoid B (bronze)		0	0	0	0	0	0	0	0	0
333	Neomysis mercedis juv.		0	0	0	0	0	0	0	0	0
401	barnacle nauplius		1400	2400	1200	2000	10400	4000	0	1400	67
402	barnacle cypris		200	200	0	0	0	0	267	200	0
440	Cladocera		0	0	0	0	0	0	0	0	0
441	Bosmina sp.		0	0	0	0	0	0	0	0	0
445	Daphnia pulex		0	0	0	0	0	0	0	0	0
560	fish larva		0	0	0	0	0	0	0	0	0
602	Tintinnopsis sp. A		0	200	0	333	133	0	0	3800	0
603	Tintinnopsis sp. B		1800	5000	0	0	0	0	0	0	0
630	coiled Foraminifera		0	0	133	0	0	0	0	0	0
682	flatworm sp. B		0	0	133	0	0	0	0	0	0
700	Rotifera		0	0	0	0	0	0	0	0	0
748	Phoronida larva		200	200	133	0	0	0	667	200	0
821	Bivalvia veliger		0	0	0	167	0	0	0	0	0
851	polychaete trochophore		0	0	0	0	0	0	133	0	0
855	spionid larva		0	400	267	167	267	800	800	200	0
880	scaleworm larva		0	400	267	500	533	0	0	0	0
						mg Carbon per cubic meter					
			11	15	3	6	20	9	12	22	0

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
50680	80157	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1159	9	9.0	16.9	8.6	17.5	6.9	3	-1	ship
1205	9	5.0	16.9	8.2	17.0	6.9	3	-1	ship
1211	9	1.0	16.9	7.0	16.5	5.0	2	-1	ship
1345	6	6.0	18.2	0.3	9.2	5.3	6	-1	ship
1351	6	1.0	18.2	0.4	9.9	5.9	5	-1	ship
1527	3	9.0	18.4	0.1	5.0	2.5	5	-1	ship
1533	3	5.0	18.4	0.1	4.9	2.3	5	-1	ship
1539	3	1.0	18.4	0.1	4.8	2.4	4	-1	ship

		Station	9			6		3		
		Depth	9.0	5.0	1.0	6.0	1.0	9.0	5.0	1.0
Code	Name		Number per cubic meter							
5	Acartia clausi F		1375	1750	1250	0	0	0	0	0
6	Acartia clausi M		0	0	0	0	0	0	0	0
7	Acartia clausi C		917	1000	0	0	0	0	0	0
8	Acartia clausi N		0	500	0	0	0	0	0	0
100	Eurytemora affinis F		0	0	0	800	333	0	0	0
101	Eurytemora affinis M		0	0	0	600	333	0	0	0
102	Eurytemora affinis C		0	0	0	800	500	125	0	0
143	Sinocalanus dorii F		0	0	0	600	667	1375	1000	0
144	Sinocalanus dorii M		0	0	0	200	333	375	400	133
145	Sinocalanus dorii C		0	0	0	1000	1000	0	0	133
194	copepodite (unknown)		0	0	0	0	0	125	200	0
201	Cyclopoid A (large-low sal)		0	0	0	200	500	125	1000	0
250	Harpacticoida		0	0	208	0	0	125	0	0
251	Harpacticoid B (bronze)		0	250	0	200	667	0	200	0
333	Neomysis mercedis juv.		2	0	6	0	0	1	0	0
401	barnacle nauplius		3208	5750	417	0	0	0	0	0
402	barnacle cypris		0	0	0	0	0	0	0	0
440	Cladocera		0	0	0	0	0	125	0	0
441	Bosmina sp.		0	0	0	0	0	625	1000	667
445	Daphnia pulex		0	0	0	200	500	125	1600	400
560	fish larva		0	2	0	0	0	0	0	0
602	Tintinnopsis sp. A		917	0	208	0	0	0	0	0
603	Tintinnopsis sp. B		0	0	0	0	0	0	0	0
630	coiled Foraminifera		0	0	0	0	0	0	0	0
682	flatworm sp. B		0	0	0	0	0	0	0	0
700	Rotifera		0	0	0	0	0	0	0	0
748	Phoronida larva		0	0	0	0	0	0	0	0
821	Bivalvia veliger		0	0	0	0	0	0	0	0
851	polychaete trochophore		0	0	0	0	0	0	0	0
855	spionid larva		0	0	0	0	0	0	0	0
880	scaleworm larva		0	0	0	0	0	0	0	0
			mg Carbon per cubic meter							
			9	15	4	15	16	16	19	3

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
50680	80157	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1714	657	7.0	19.2	0.1	7.2	2.7	3	-1	ship
1720	657	1.0	19.2	0.1	7.3	2.6	2	-1	ship

	Station	657	
	Depth	7.0	1.0
Code	Name		Number per cubic meter
5	Acartia clausi F	0	0
6	Acartia clausi M	0	0
7	Acartia clausi C	0	0
8	Acartia clausi N	0	0
100	Eurytemora affinis F	0	0
101	Eurytemora affinis M	0	0
102	Eurytemora affinis C	0	0
143	Sinocalanus dorii F	0	0
144	Sinocalanus dorii M	133	0
145	Sinocalanus dorii C	0	0
194	copepodite (unknown)	0	0
201	Cyclopoid A (large-low sal)	133	200
250	Harpacticoida	133	0
251	Harpacticoid B (bronze)	0	0
333	Neomysis mercedis juv.	0	0
401	barnacle nauplius	0	0
402	barnacle cypris	0	0
440	Cladocera	133	0
441	Bosmina sp.	133	100
445	Daphnia pulex	0	0
560	fish larva	0	0
602	Tintinnopsis sp. A	0	0
603	Tintinnopsis sp. B	0	0
630	coiled Foraminifera	0	0
682	flatworm sp. B	0	0
700	Rotifera	266	0
748	Phoronida larva	0	0
821	Bivalvia veliger	0	0
851	polychaete trochophore	0	0
855	spionid larva	0	0
880	scaleworm larva	0	0
			mg Carbon per cubic meter
		2	1

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
50680	80157	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
700	302	1.0	15.7	17.1	5.3	-	0	-1	ship
725	306	3.0	15.8	17.7	6.7	-	0	-1	ship
800	312	1.0	16.1	17.9	29.4	-	0	-1	ship

		Station	302	306	312
		Depth	1.0	3.0	1.0
Code	Name			Number per cubic meter	
5	Acartia clausi F		0	3000	0
6	Acartia clausi M		0	2000	0
7	Acartia clausi C		917	5000	2750
8	Acartia clausi N		1833	2500	0
143	Sinocalanus dorii F		0	0	0
144	Sinocalanus dorii M		0	0	0
145	Sinocalanus dorii C		0	0	0
199	copepod nauplius		0	0	0
201	Cyclopoid A (large-low sal)		0	0	0
250	Harpacticoida		0	0	0
325	Synidotea laticauda imm.		0	0	0
401	barnacle nauplius		2750	2000	917
441	Bosmina sp.		0	0	0
445	Daphnia pulex		0	0	0
560	fish larva		0	0	0
602	Tintinnopsis sp. A		3208	2500	3667
603	Tintinnopsis sp. B		0	0	0
681	flatworm sp. A		0	500	0
801	Gastropod veliger		458	0	0
821	Bivalvia veliger		0	0	0
855	spionid larva		917	1000	458
880	scaleworm larva		917	500	0
				mg Carbon per cubic meter	
			9	23	5

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
50680	80157	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
835	318	1.0	16.7	16.4	43.3	-	0	-1	ship
915	324	1.0	17.6	17.8	25.1	-	1	-1	ship
1005	334	1.0	16.6	15.5	15.5	-	1	-1	ship

		Station	318	324	334
		Depth	1.0	1.0	1.0
Code	Name			Number per cubic meter	
5	Acartia clausi F		0	6667	0
6	Acartia clausi M		0	3333	0
7	Acartia clausi C		9750	19333	0
8	Acartia clausi N		4500	0	0
143	Sinocalanus dorii F		0	0	0
144	Sinocalanus dorii M		0	0	0
145	Sinocalanus dorii C		0	0	0
199	copepod nauplius		0	0	0
201	Cyclopoid A (large-low sal)		0	0	0
250	Harpacticoida		0	0	417
325	Synidotea laticauda imm.		750	0	0
401	barnacle nauplius		3750	0	3750
441	Bosmina sp.		0	0	0
445	Daphnia pulex		0	0	0
560	fish larva		0	1	0
602	Tintinnopsis sp. A		0	0	0
603	Tintinnopsis sp. B		750	0	833
681	flatworm sp. A		0	0	0
801	Gastropod veliger		0	0	0
821	Bivalvia veliger		0	0	417
855	spionid larva		1500	667	0
880	scaleworm larva		0	0	0
				mg Carbon per cubic meter	
			17	40	6

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
50680	80157	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1305	414	1.0	19.5	1.0	33.4	-	1	-1	ship
1340	420	1.0	18.7	0.9	28.9	-	1	-1	ship
1615	757	5.0	19.0	0.2	2.0	-	5	-1	ship

		Station	414	420	757
		Depth	1.0	1.0	5.0
Code	Name			Number per cubic meter	
5	Acartia clausi F		0	0	0
6	Acartia clausi M		0	0	0
7	Acartia clausi C		0	0	0
8	Acartia clausi N		0	0	0
143	Sinocalanus dorii F		167	0	333
144	Sinocalanus dorii M		333	0	667
145	Sinocalanus dorii C		0	0	667
199	copepod nauplius		0	83	0
201	Cyclopoid A (large-low sal)		333	167	333
250	Harpacticoida		167	83	167
325	Synidotea laticauda imm.		0	0	0
401	barnacle nauplius		0	0	0
441	Bosmina sp.		0	0	833
445	Daphnia pulex		0	0	1000
560	fish larva		0	0	0
602	Tintinnopsis sp. A		0	0	0
603	Tintinnopsis sp. B		0	0	0
681	flatworm sp. A		0	0	0
801	Gastropod veliger		0	0	0
821	Bivalvia veliger		0	0	0
855	spionid larva		0	0	0
880	scaleworm larva		0	0	0
				mg Carbon per cubic meter	
			5	1	13

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
180680	80170	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
615	17	11.0	13.3	30.6	1.4	0.7	1	-1	ship
621	17	7.0	13.3	30.6	1.6	0.8	1	-1	ship
627	17	1.0	13.8	30.0	1.6	0.8	1	-1	ship
801	15	10.0	15.9	25.2	2.2	1.7	0	-1	ship
807	15	5.0	16.2	24.0	2.5	2.3	0	-1	ship
813	15	1.0	16.6	23.1	2.7	2.6	0	-1	ship
941	13	8.0	16.6	22.0	7.9	3.3	4	-1	ship
947	13	5.0	16.6	22.0	7.9	3.3	3	-1	ship
1003	13	1.0	17.2	18.9	8.6	1.6	0	-1	ship

		Station		17			15			13	
		Depth	11.0	7.0	1.0	10.0	5.0	1.0	8.0	5.0	1.0
Code	Name					Number per cubic meter					
5	Acartia clausi F		1333	600	0	117	133	0	200	0	0
6	Acartia clausi M		167	0	167	0	0	0	0	0	0
7	Acartia clausi C		1167	1000	833	583	667	500	800	1875	0
8	Acartia clausi N		1167	0	0	233	600	1167	600	5208	367
100	Eurytemora affinis F		0	0	0	0	0	0	0	0	0
101	Eurytemora affinis M		0	0	0	0	0	0	0	0	0
102	Eurytemora affinis C		0	0	0	0	0	0	0	0	0
143	Sinocalanus dorii F		0	0	0	0	0	0	0	0	0
144	Sinocalanus dorii M		0	0	0	0	0	0	0	0	0
145	Sinocalanus dorii C		0	0	0	0	0	0	0	0	0
195	copepod nauplius D		167	0	0	0	0	0	0	0	0
196	copepod nauplius A		167	0	0	0	0	0	0	0	0
197	copepod nauplius B		0	0	0	0	0	0	0	0	0
199	copepod nauplius		0	0	0	0	0	0	0	0	0
201	Cyclopoid A (large-low sal)		0	0	0	0	0	0	0	0	0
250	Harpacticoida		500	200	0	117	133	167	200	0	0
251	Harpacticoid B (bronze)		0	0	0	0	0	0	0	0	0
280	Harpacticoid sp.A		0	0	167	0	0	0	0	0	0
281	Harpacticoid A N		167	0	0	0	0	0	0	0	0
333	Neomysis mercedis juv.		0	0	0	0	0	0	0	0	0
376	Crangon sp.		0	0	0	0	0	0	0	0	0
401	barnacle nauplius		2500	2000	2333	2917	5867	9667	5800	4167	1925
440	Cladocera		0	0	0	0	0	0	0	0	0
441	Bosmina sp.		0	0	0	0	0	0	0	0	0
445	Daphnia pulex		0	0	0	0	0	0	0	0	0
602	Tintinnopsis sp. A		0	0	0	0	267	0	1000	2083	1100
603	Tintinnopsis sp. B		833	0	667	0	0	0	600	625	0
608	Parafavella sp.		1333	0	500	0	0	0	0	0	0
660	Hydrozoa		0	1	0	0	0	0	0	0	0
682	flatworm sp. B		167	0	0	0	0	0	0	0	0
748	Phoronida larva		167	0	0	0	0	0	0	0	0
821	Bivalvia veliger		0	200	0	0	0	0	0	0	0
851	polychaete trochophore		0	0	500	0	67	0	0	0	0
855	spionid larva		500	600	333	233	200	333	0	208	92
880	scaleworm larva		167	400	167	0	67	500	0	0	0
						mg Carbon per cubic meter					
			11	8	6	6	11	17	10	9	3

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
180680	80170	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1154	9	9.0	18.7	8.3	16.0	5.0	1	-1	ship
1200	9	5.0	18.7	7.6	15.8	4.0	2	-1	ship
1206	9	1.0	18.9	7.3	15.8	3.4	1	-1	ship
1352	6	5.0	20.3	0.4	7.9	6.8	5	-1	ship
1358	6	1.0	20.4	0.5	9.0	6.8	4	-1	ship
1533	3	10.0	20.7	0.1	5.4	4.5	4	-1	ship
1539	3	5.0	20.7	0.1	5.2	4.3	3	-1	ship
1545	3	1.0	20.8	0.1	5.0	4.2	3	-1	ship

		Station		9			6			3	
		Depth	9.0	5.0	1.0	5.0	1.0	10.0	5.0	1.0
Code	Name					Number per cubic meter				
5	Acartia clausi F		250	923	0	0	0	0	0	0
6	Acartia clausi M		250	0	0	0	0	0	0	0
7	Acartia clausi C		500	231	0	0	0	0	0	0
8	Acartia clausi N		500	0	167	0	0	0	0	0
100	Eurytemora affinis F		0	231	0	533	167	0	0	133
101	Eurytemora affinis M		0	0	0	1333	167	133	50	0
102	Eurytemora affinis C		0	0	0	533	0	0	0	0
143	Sinocalanus dorii F		0	0	0	1733	0	667	50	133
144	Sinocalanus dorii M		0	0	0	133	83	400	0	0
145	Sinocalanus dorii C		0	0	0	800	333	533	50	0
195	copepod nauplius D		0	0	0	0	0	0	0	0
196	copepod nauplius A		0	0	0	0	0	0	0	0
197	copepod nauplius B		0	0	167	0	0	0	0	67
199	copepod nauplius		0	0	0	0	83	0	100	0
201	Cyclopoid A (large-low sal)		0	0	0	133	0	267	100	0
250	Harpacticoida		0	0	0	0	0	0	50	133
251	Harpacticoid B (bronze)		250	0	0	133	167	133	0	0
280	Harpacticoid sp.A		0	0	0	0	0	0	0	0
281	Harpacticoid A N		0	0	0	0	0	0	0	0
333	Neomysis mercedis juv.		0	5	0	0	0	0	0	0
376	Crangon sp.		1	0	0	0	0	0	0	0
401	barnacle nauplius		2000	7154	1333	0	0	0	0	0
440	Cladocera		0	0	0	0	0	0	0	67
441	Bosmina sp.		0	0	0	0	0	0	50	0
445	Daphnia pulex		0	0	0	0	0	0	150	67
602	Tintinnopsis sp. A		21250	12462	2000	0	0	0	0	0
603	Tintinnopsis sp. B		0	0	0	0	0	0	0	0
608	Parafavella sp.		0	0	0	0	0	0	0	0
660	Hydrozoa		0	0	0	0	0	0	0	0
682	flatworm sp. B		0	0	0	0	0	0	0	0
748	Phoronida larva		0	0	0	0	0	0	0	0
821	Bivalvia veliger		0	0	0	0	0	0	50	0
851	polychaete trochophore		0	0	0	0	0	0	0	0
855	spionid larva		500	231	333	0	0	0	0	0
880	scaleworm larva		0	0	0	0	0	0	0	0
						mg Carbon per cubic meter				
			6	15	3	23	3	11	1	2

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
180680	80170	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1718	657	3.0	20.7	0.0	5.5	1.9	3	-1	ship

Station 657
Depth 3.0

Code	Name	Number per cubic meter
5	Acartia clausi F	0
6	Acartia clausi M	0
7	Acartia clausi C	0
8	Acartia clausi N	0
100	Eurytemora affinis F	0
101	Eurytemora affinis M	0
102	Eurytemora affinis C	0
143	Sinocalanus dorii F	0
144	Sinocalanus dorii M	0
145	Sinocalanus dorii C	0
195	copepod nauplius D	0
196	copepod nauplius A	0
197	copepod nauplius B	0
199	copepod nauplius	0
201	Cyclopoid A (large-low sal)	0
250	Harpacticoida	0
251	Harpacticoid B (bronze)	0
280	Harpacticoid sp.A	0
281	Harpacticoid A N	0
333	Neomysis mercedis juv.	0
376	Cranson sp.	0
401	barnacle nauplius	0
440	Cladocera	0
441	Bosmina sp.	450
445	Daphnia pulex	0
602	Tintinnopsis sp. A	0
603	Tintinnopsis sp. B	0
608	Parafavella sp.	0
660	Hydrozoa	0
682	flatworm sp. B	0
748	Phoronida larva	0
821	Bivalvia veliger	0
851	polychaete trochophore	0
855	spionid larva	0
880	scaleworm larva	0

	ug Carbon per cubic meter
	1

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
180680	80170	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
707	302	1.0	16.6	23.2	3.8	2.4	1	-1	ship
800	312	1.0	19.2	18.7	9.4	8.6	4	-1	ship
840	318	0.5	18.4	16.4	42.8	-	0	-1	ship

		Station	302	312	318
		Depth	1.0	1.0	0.5
Code	Name		Number per cubic meter		
5	Acartia clausi F		333	1000	227
6	Acartia clausi M		0	333	0
8	Acartia clausi N		167	167	227
100	Eurytemora affinis F		0	0	0
101	Eurytemora affinis M		0	0	0
102	Eurytemora affinis C		0	0	0
143	Sinocalanus dorii F		0	0	0
144	Sinocalanus dorii M		0	0	0
145	Sinocalanus dorii C		0	0	0
194	copepodite (unknown)		0	0	0
198	copepod nauplius C		0	0	0
199	copepod nauplius		0	0	0
201	Cyclopoid A (large-low sal)		0	0	0
250	Harpacticoida		667	0	0
251	Harpacticoid B (bronze)		0	0	0
401	barnacle nauplius		2167	0	0
441	Bosmina sp.		0	0	0
445	Daphnia pulex		0	0	0
560	fish larva		0	0	0
602	Tintinnopsis sp. A		167	0	1364
603	Tintinnopsis sp. B		0	4500	455
740	Nematoda		0	0	0
748	Phoronida larva		167	0	0
801	Gastropod veliger		0	167	0
821	Bivalvia veliger		0	0	682
851	polychaete trochophore		0	0	227
852	polychaete larva		0	0	0
855	spionid larva		0	167	682
880	scaleworm larva		0	0	909
				mg Carbon per cubic meter	
			5	4	5

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
180680	80170	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1107	404	2.0	19.3	4.7	10.9	5.4	1	-1	ship
1200	414	0.5	21.0	1.7	37.5	15.1	3	-1	ship
1235	418	0.3	21.2	1.3	36.9	12.0	0	-1	ship

		Station	404	414	418
		Depth	2.0	0.5	0.3
Code	Name			Number per cubic meter	
5	Acartia clausi F		0	0	0
6	Acartia clausi M		0	0	0
8	Acartia clausi N		222	0	0
100	Eurytemora affinis F		0	200	0
101	Eurytemora affinis M		0	200	67
102	Eurytemora affinis C		0	0	133
143	Sinocalanus dorii F		0	100	133
144	Sinocalanus dorii M		0	0	0
145	Sinocalanus dorii C		111	200	400
194	copepodite (unknown)		0	0	0
198	copepod nauplius C		222	0	0
199	copepod nauplius		0	100	600
201	Cyclopoid A (large-low sal)		0	100	200
250	Harpacticoida		0	100	200
251	Harpacticoid B (bronze)		0	0	0
401	barnacle nauplius		1222	500	0
441	Bosmina sp.		0	0	0
445	Daphnia pulex		0	0	0
560	fish larva		0	1	0
602	Tintinnopsis sp. A		0	0	0
603	Tintinnopsis sp. B		0	0	0
740	Nematoda		0	0	0
748	Phoronida larva		0	0	0
801	Gastropod veliger		0	0	0
821	Bivalvia veliger		0	0	0
851	polychaete trochophore		0	0	0
852	polychaete larva		0	800	0
855	spionid larva		0	0	0
880	scaleworm larva		0	0	0
				mg Carbon per cubic meter	
			2	4	4

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
180680	80170	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1414	438	2.5	20.9	0.4	11.1	5.6	4	-1	ship
1703	757	4.0	21.4	0.2	3.8	2.9	2	-1	ship

	Station	438	757
	Depth	2.5	4.0
Code	Name	Number per cubic meter	
5	Acartia clausi F	0	0
6	Acartia clausi M	0	50
8	Acartia clausi N	0	0
100	Eurytemora affinis F	267	0
101	Eurytemora affinis M	0	0
102	Eurytemora affinis C	0	0
143	Sinocalanus dorii F	1200	350
144	Sinocalanus dorii M	400	250
145	Sinocalanus dorii C	133	200
194	copepodite (unknown)	0	50
198	copepod nauplius C	0	0
199	copepod nauplius	0	50
201	Cyclopoid A (large-low sal)	0	100
250	Harpacticoida	0	150
251	Harpacticoid B (bronze)	133	0
401	barnacle nauplius	0	0
441	Bosmina sp.	0	250
445	Daphnia pulex	0	250
560	fish larva	0	0
602	Tintinnopsis sp. A	0	0
603	Tintinnopsis sp. B	0	0
740	Nematoda	0	50
748	Phoronida larva	0	0
801	Gastropod veliger	0	0
821	Bivalvia veliger	0	50
851	polychaete trochophore	0	0
852	polychaete larva	0	0
855	spionid larva	0	0
880	scaleworm larva	0	0
		ug Carbon per cubic meter	
		13	6

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
20780	80184	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1500	19	14.0	13.9	30.6	4.6	0.9	3	1	ship
1506	19	7.0	13.9	30.5	4.6	0.9	3	1	ship
1512	19	1.0	13.9	30.4	4.6	0.9	1	1	ship
1350	17	12.0	15.2	28.3	1.5	1.6	4	1	ship
1356	17	6.0	15.3	27.9	1.4	1.6	3	1	ship
1402	17	1.0	16.0	26.4	1.4	1.2	1	1	ship
1232	15	14.0	16.9	23.6	3.5	2.6	4	1	ship
1238	15	7.0	17.6	20.4	2.5	4.6	3	1	ship
1244	15	1.0	18.1	19.0	2.5	7.9	0	1	ship

		Station		19			17			15	
		Depth	14.0	7.0	1.0	12.0	6.0	1.0	14.0	7.0	1.0
Code	Name					Number per cubic meter					
5	Acartia clausi F		400	600	0	267	583	0	533	1200	100
6	Acartia clausi M		0	0	0	0	233	0	1867	533	100
7	Acartia clausi C		1200	1900	500	800	1750	2083	2000	4267	1800
8	Acartia clausi N		1467	1100	200	0	1050	1000	133	133	100
60	Paracalanus parvus F		0	0	0	133	0	0	0	0	0
61	Paracalanus parvus M		0	0	0	133	0	0	0	0	0
62	Paracalanus parvus C		133	0	0	0	0	0	0	0	0
70	Pseudocalanus sp.A F		133	0	0	0	0	0	0	0	0
100	Eurytemora affinis F		0	0	0	0	0	0	0	0	0
101	Eurytemora affinis M		0	0	0	0	0	0	0	0	0
102	Eurytemora affinis C		0	0	0	0	0	0	0	0	0
143	Sinocalanus dorii F		0	0	0	0	0	0	0	0	0
144	Sinocalanus dorii M		0	0	0	0	0	0	0	0	0
145	Sinocalanus dorii C		0	0	0	0	0	0	0	0	0
192	Epilabidocera longipedata C		0	100	0	0	0	0	0	0	0
194	copepodite (unknown)		0	0	0	0	0	0	0	0	0
196	copepod nauplius A		133	0	0	0	0	0	0	0	0
197	copepod nauplius B		0	0	0	0	0	0	0	0	0
199	copepod nauplius		1333	400	1700	0	0	250	133	0	0
200	Cyclopoida		0	100	0	0	0	0	0	0	0
250	Harpacticoida		267	0	100	400	583	0	133	0	100
251	Harpacticoid B (bronze)		133	0	0	0	0	0	0	0	0
280	Harpacticoid sp.A		133	200	100	0	117	0	0	0	0
281	Harpacticoid A N		0	0	0	0	0	83	0	0	0
321	Isopoda imm.		0	0	0	0	0	0	133	0	0
401	barnacle nauplius		133	1500	200	5600	7117	6833	1333	14000	10000
402	barnacle cypris		0	0	0	0	0	0	0	0	0
445	Daphnia pulex		0	0	0	0	0	0	0	0	0
602	Tintinnopsis sp. A		0	0	0	0	0	83	267	133	100
603	Tintinnopsis sp. B		133	0	0	0	0	83	0	0	0
608	Parafavella sp.		533	2200	6500	400	0	167	0	0	0
681	flatworm sp. A		0	0	0	0	0	0	0	0	0
682	flatworm sp. B		0	0	100	0	0	0	0	0	0
701	Synchaeta sp.		400	100	0	0	0	0	0	0	0
703	Brachionus sp.		0	0	0	0	0	0	0	0	0
740	Nematoda		0	0	0	0	0	0	0	0	0
748	Phoronida larva		0	0	0	0	117	0	0	0	0

		Station		19			17			15	
		Depth	14.0	7.0	1.0	12.0	6.0	1.0	14.0	7.0	1.0
Code	Name					Number per cubic meter					
801	Gastropod veliger		133	0	0	0	117	167	533	0	0
821	Bivalvia veliger		0	0	0	0	0	83	0	133	0
852	polychaete larva		0	0	0	0	0	0	0	0	0
855	spionid larva		267	200	100	133	817	250	0	0	200
880	scaleworm larva		267	200	0	267	117	0	0	0	0
						mg Carbon per cubic meter					
			6	8	2	12	17	13	8	29	17

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
20780	80184	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1113	13	7.5	18.2	18.2	2.2	5.8	5	-1	ship
1119	13	4.0	18.2	18.2	2.2	5.5	5	-1	ship
1125	13	1.0	18.3	18.3	2.6	4.7	4	-1	ship
1015	9	10.0	18.8	9.6	12.8	9.5	4	-1	ship
1021	9	5.0	18.8	9.7	11.5	8.2	5	-1	ship
1027	9	1.0	18.8	9.4	9.0	6.2	3	-1	ship
848	6	6.0	19.3	3.2	18.2	9.5	5	-1	ship
856	6	1.0	19.3	4.4	24.6	6.0	1	-1	ship

		Station		13			9			6
		Depth	7.5	4.0	1.0	10.0	5.0	1.0	6.0	1.0
Code	Name					Number per cubic meter				
5	Acartia clausi F		3067	2000	242	1333	933	133	0	0
6	Acartia clausi M		2133	3067	242	667	0	0	0	0
7	Acartia clausi C		2000	333	2424	267	267	133	0	0
8	Acartia clausi N		0	400	242	0	133	0	0	0
60	Paracalanus parvus F		0	0	0	0	0	0	0	0
61	Paracalanus parvus M		0	0	0	0	0	0	0	0
62	Paracalanus parvus C		0	0	0	0	0	0	0	0
70	Pseudocalanus sp.A F		0	0	0	0	0	0	0	0
100	Eurytemora affinis F		0	0	0	0	0	0	1867	100
101	Eurytemora affinis M		0	0	0	133	0	0	0	0
102	Eurytemora affinis C		0	0	0	0	0	0	2133	0
143	Sinocalanus dorii F		0	0	0	133	0	0	133	100
144	Sinocalanus dorii M		0	0	0	0	0	0	0	100
145	Sinocalanus dorii C		0	0	0	0	0	0	133	100
192	Epilabidocera longipedata C		0	0	0	0	0	0	0	0
194	copepodite (unknown)		0	0	0	0	0	0	133	100
196	copepod nauplius A		0	0	0	0	0	0	0	400
197	copepod nauplius B		0	0	0	0	0	133	0	0
199	copepod nauplius		0	0	0	267	133	0	1067	1800
200	Cyclopoida		0	0	0	0	0	0	0	0
250	Harpacticoida		133	267	0	133	0	0	0	0
251	Harpacticoid B (bronze)		0	0	0	0	0	0	133	0
280	Harpacticoid sp.A		0	0	0	0	0	0	0	0
281	Harpacticoid A N		0	0	0	0	0	0	0	0
321	Isopoda imm.		133	0	0	0	267	0	0	0
401	barnacle nauplius		267	5867	18061	12400	6133	4533	0	2300
402	barnacle cypris		0	0	0	0	0	0	0	0
445	Daphnia pulex		0	0	0	0	0	0	0	0
602	Tintinnopsis sp. A		0	533	4485	800	1467	1200	0	0
603	Tintinnopsis sp. B		0	267	242	0	0	0	0	0
608	Parafavella sp.		0	0	0	0	0	0	0	0
681	flatworm sp. A		0	133	0	0	0	0	0	0
682	flatworm sp. B		0	0	0	0	0	0	0	0
701	Synchaeta sp.		0	0	0	0	0	133	0	0
703	Brachionus sp.		0	0	0	0	0	0	0	0
740	Nematoda		0	0	0	0	0	0	133	0
748	Phoronida larva		0	0	0	0	0	0	0	0
801	Gastropod veliger		0	0	0	0	0	0	0	0

	Station		13			9			6
	Depth	7.5	4.0	1.0	10.0	5.0	1.0	6.0	1.0
Code	Name				Number per cubic meter				
821	Bivalvia veliger	0	0	242	0	133	0	0	0
852	polychaete larva	0	0	121	0	0	0	0	0
855	spionid larva	0	133	0	0	0	0	133	300
880	scaleworm larva	0	0	121	0	0	0	0	0
					mg Carbon per cubic meter				
		14	20	31	25	12	7	11	7

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
20780	80184	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
752	3	10.0	20.3	0.7	10.4	7.4	4	-1	ship
758	3	5.0	20.3	0.6	9.2	6.2	4	-1	ship
804	3	1.0	20.3	0.6	7.4	5.8	1	-1	ship
555	657	6.0	20.2	0.0	2.7	2.6	2	0	ship
601	657	1.0	20.2	0.0	2.7	2.6	1	0	ship

		Station	3			657	
		Depth	10.0	5.0	1.0	6.0	1.0
Code	Name					Number per cubic meter	
5	Acartia clausi F		0	0	0	0	0
6	Acartia clausi M		0	0	0	0	0
7	Acartia clausi C		0	0	0	0	0
8	Acartia clausi N		0	0	0	0	0
60	Paracalanus parvus F		0	0	0	0	0
61	Paracalanus parvus M		0	0	0	0	0
62	Paracalanus parvus C		0	0	0	0	0
70	Pseudocalanus sp.A F		0	0	0	0	0
100	Eurytemora affinis F		300	500	300	0	0
101	Eurytemora affinis M		300	100	150	0	0
102	Eurytemora affinis C		600	400	1050	0	0
143	Sinocalanus dorii F		400	1100	150	133	267
144	Sinocalanus dorii M		400	200	150	267	333
145	Sinocalanus dorii C		500	1200	450	0	67
192	Epilabidocera longipedata C		0	0	0	0	0
194	copepodite (unknown)		0	300	450	0	0
196	copepod nauplius A		0	0	0	0	0
197	copepod nauplius B		0	0	0	0	0
199	copepod nauplius		0	0	0	133	0
200	Cyclopoida		0	0	0	0	0
250	Harpacticoida		0	0	0	133	67
251	Harpacticoid B (bronze)		1200	400	450	0	0
280	Harpacticoid sp.A		0	0	0	0	0
281	Harpacticoid A N		0	0	0	0	0
321	Isopoda imm.		0	1	0	3	1
401	barnacle nauplius		0	0	0	0	0
402	barnacle cypris		0	0	0	0	0
445	Daphnia pulex		0	0	0	0	67
602	Tintinnopsis sp. A		0	0	0	0	0
603	Tintinnopsis sp. B		0	0	0	0	0
608	Parafavella sp.		0	0	150	0	0
681	flatworm sp. A		0	0	0	0	0
682	flatworm sp. B		0	0	0	0	0
701	Synchaeta sp.		0	0	0	0	0
703	Brachionus sp.		100	0	0	0	0
740	Nematoda		0	0	0	0	0
748	Phoronida larva		0	0	0	0	0
801	Gastropod veliger		0	0	0	0	0
821	Bivalvia veliger		0	0	0	0	67
852	polychaete larva		0	0	0	0	0
855	spionid larva		0	0	0	0	0

	Station		3		657	
	Depth	10.0	5.0	1.0	6.0	1.0
Code	Name				Number per cubic meter	
880	scaleworm larva	0	0	0	0	0
					mg Carbon per cubic meter	
		11	17	8	3	5

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
170780	80199	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
621	17	10.0	14.9	30.1	1.6	0.5	0	-1	ship
627	17	5.0	14.9	30.1	1.6	0.6	1	-1	ship
633	17	1.0	15.6	29.1	2.2	0.7	0	-1	ship
750	15	8.0	17.6	24.0	1.2	0.4	0	-1	ship
756	15	5.0	17.9	23.1	1.3	0.8	0	-1	ship
802	15	1.0	18.2	22.7	1.5	1.2	2	-1	ship
916	13	9.0	17.9	23.3	1.5	3.0	4	-1	ship
922	13	5.0	17.9	22.9	1.3	2.0	4	-1	ship
928	13	1.0	18.5	17.5	2.5	1.5	0	-1	ship

		Station	17			15			13	
		Depth	10.0	5.0	1.0	8.0	5.0	1.0	9.0	5.0	1.0
Code	Name		Number per cubic meter								
5	Acartia clausi F		1200	2133	0	267	700	133	1066	1333	0
6	Acartia clausi M		533	133	0	0	0	0	1600	667	0
7	Acartia clausi C		3333	9600	4000	4667	4200	1733	7067	6333	933
8	Acartia clausi N		1067	400	5067	7733	2683	933	1467	2167	3200
10	Acartia californiensis F		0	0	0	133	0	0	133	0	0
100	Eurytemora affinis F		0	0	0	0	0	0	0	0	0
101	Eurytemora affinis M		0	0	0	0	0	0	0	0	0
102	Eurytemora affinis C		0	0	0	0	0	0	0	0	0
143	Sinocalanus dorii F		0	0	0	0	0	0	0	0	0
144	Sinocalanus dorii M		0	0	0	0	0	0	0	0	0
145	Sinocalanus dorii C		0	0	0	0	0	0	0	0	0
195	copepod nauplius D		0	0	133	0	0	0	0	0	0
197	copepod nauplius B		0	0	0	0	0	0	0	0	0
199	copepod nauplius		0	0	0	0	0	0	0	0	0
200	Cyclopoida		0	133	0	0	0	133	0	0	0
210	Oithona spp.		133	0	0	0	0	0	0	0	0
250	Harpacticoida		133	267	0	667	0	267	0	0	0
251	Harpacticoid B (bronze)		0	0	0	0	0	0	0	0	0
280	Harpacticoid sp.A		133	0	0	0	0	0	0	167	0
325	Synidotea laticauda imm.		0	0	0	0	0	0	400	0	0
333	Neomysis mercedis juv.		0	0	0	0	0	0	0	0	0
370	Natantia zoea		133	133	0	0	0	0	0	0	0
391	euphausid nauplius		0	0	0	0	0	0	0	167	0
401	barnacle nauplius		267	533	800	3333	3267	4933	4400	4833	6133
402	barnacle cypris		0	133	0	0	0	0	0	0	0
602	Tintinnopsis sp. A		0	0	0	0	700	933	1333	2333	133
603	Tintinnopsis sp. B		0	0	0	0	117	17733	6267	8333	5733
604	Tintinnid sp.C		0	0	0	0	0	0	400	0	0
605	Eutintinnus neriticus		0	0	0	0	0	0	267	0	0
608	Parafavella sp.		133	0	267	0	0	0	0	0	0
682	flatworm sp. B		0	0	0	0	0	0	133	0	0
701	Synchaeta sp.		400	0	267	0	0	0	0	167	0
703	Brachionus sp.		0	0	0	0	0	0	0	0	0
740	Nematoda		0	0	0	0	0	0	0	0	0
801	Gastropod veliger		0	0	0	0	0	0	0	333	0
821	Bivalvia veliger		0	0	0	0	0	133	133	167	0
851	polychaete trochophore		0	0	133	0	117	0	0	0	0

	Station		17			15			13	
	Depth	10.0	5.0	1.0	8.0	5.0	1.0	9.0	5.0	1.0
Code	Name				Number per cubic meter					
855	spionid larva	0	0	533	267	117	133	400	500	133
880	scaleworm larva	133	0	533	267	0	400	0	333	133
901	Insecta	0	0	0	0	0	0	0	0	0
					mg Carbon per cubic meter					
		8	16	8	13	11	11	19	19	11

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
170780	80199	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1120	9	9.0	19.8	10.6	8.9	8.2	5	-1	ship
1126	9	5.0	19.8	10.3	8.7	7.0	4	-1	ship
1132	9	1.0	19.7	9.5	8.7	3.9	4	-1	ship
1311	6	8.0	21.6	1.5	16.0	11.3	5	-1	ship
1317	6	5.0	21.6	1.5	16.0	11.3	5	-1	ship
1323	6	1.0	21.6	1.3	15.3	10.8	4	-1	ship
1431	3	10.0	22.3	0.2	5.2	5.4	5	-1	ship
1437	3	5.0	22.3	0.2	5.2	5.4	4	-1	ship
1443	3	1.0	22.4	0.2	5.1	4.6	3	-1	ship

		Station	9			6			3	
		Depth	9.0	5.0	1.0	8.0	5.0	1.0	10.0	5.0	1.0
Code	Name		Number per cubic meter								
5	Acartia clausi F		2667	4000	933	0	0	0	0	0	0
6	Acartia clausi M		500	133	0	0	0	0	0	0	0
7	Acartia clausi C		333	800	117	0	0	0	0	0	0
8	Acartia clausi N		0	133	233	0	0	0	0	0	0
10	Acartia californiensis F		0	0	0	0	0	0	0	0	0
100	Eurytemora affinis F		0	0	0	1333	833	0	0	133	0
101	Eurytemora affinis M		0	0	0	500	500	167	0	0	67
102	Eurytemora affinis C		0	0	0	167	667	333	133	0	0
143	Sinocalanus dorii F		0	0	0	667	667	500	133	733	467
144	Sinocalanus dorii M		0	0	0	0	0	167	267	67	67
145	Sinocalanus dorii C		0	0	0	667	167	667	133	67	67
195	copepod nauplius D		0	0	0	0	0	0	0	0	0
197	copepod nauplius B		0	0	117	0	0	0	0	0	0
199	copepod nauplius		0	0	0	333	0	167	133	0	0
200	Cyclopoida		0	0	0	0	0	0	0	0	0
210	Oithona spp.		0	0	0	0	0	0	0	0	0
250	Harpacticoida		167	0	0	167	0	0	0	0	0
251	Harpacticoid B (bronze)		167	0	0	167	833	167	0	0	0
280	Harpacticoid sp.A		0	0	0	0	0	0	0	0	0
325	Synidotea laticauda imm.		0	133	0	0	0	0	0	0	0
333	Neomysis mercedis juv.		2	0	0	0	5	0	1	0	0
370	Natantia zoea		0	0	0	0	0	0	0	0	0
391	euphausid nauplius		0	0	0	0	0	0	0	0	0
401	barnacle nauplius		4500	2667	2100	0	0	0	0	0	0
402	barnacle cypris		0	0	0	0	0	0	0	0	0
602	Tintinnopsis sp. A		4667	2400	1517	0	0	0	0	0	0
603	Tintinnopsis sp. B		0	267	117	0	0	0	0	0	0
604	Tintinnid sp.C		0	0	0	0	0	0	0	0	0
605	Eutintinnus neriticus		0	0	0	0	0	0	0	0	0
608	Parafavella sp.		0	0	0	0	0	0	0	0	0
682	flatworm sp. B		0	0	0	0	0	0	0	0	0
701	Synchaeta sp.		0	0	0	0	0	0	0	0	0
703	Brachionus sp.		0	0	0	0	0	0	0	0	0
740	Nematoda		0	133	0	0	0	0	0	0	0
801	Gastropod veliger		0	0	0	0	0	0	0	0	0
821	Bivalvia veliger		0	133	233	0	0	0	0	0	0
851	polychaete trochophore		0	0	0	0	0	0	0	0	0

		Station		9			6				3	
		Depth	9.0	5.0	1.0	8.0	5.0	1.0	10.0	5.0	1.0
Code	Name					Number per cubic meter					
855	spionid larva		0	133	0	0	0	0	0	0	0
880	scaleworm larva		0	0	0	0	0	0	0	0	0
901	Insecta		0	0	0	0	0	0	0	67	0
						mg Carbon per cubic meter					
			16	17	6	13	11	8	3	7	5

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
170780	80199	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1757	657	5.0	23.2	0.0	8.0	1.8	3	-1	ship
1733	657	1.0	23.3	0.0	8.0	1.8	3	-1	ship

	Station	657	
	Depth	5.0	1.0
Code	Name		Number per cubic meter
5	Acartia clausi F	0	0
6	Acartia clausi M	0	0
7	Acartia clausi C	0	0
8	Acartia clausi N	0	0
10	Acartia californiensis F	0	0
100	Eurytemora affinis F	0	0
101	Eurytemora affinis M	0	0
102	Eurytemora affinis C	0	0
143	Sinocalanus dorii F	33	25
144	Sinocalanus dorii M	33	0
145	Sinocalanus dorii C	33	0
195	copepod nauplius D	0	0
197	copepod nauplius B	0	0
199	copepod nauplius	0	0
200	Cyclopoida	0	50
210	Oithona spp.	0	0
250	Harpacticoida	0	0
251	Harpacticoid B (bronze)	0	0
280	Harpacticoid sp.A	0	0
325	Synidotea laticauda imm.	0	0
333	Neomysis mercedis juv.	0	0
370	Natantia zoea	0	0
391	euphausid nauplius	0	0
401	barnacle nauplius	0	0
402	barnacle cypris	0	0
602	Tintinnopsis sp. A	0	0
603	Tintinnopsis sp. B	0	0
604	Tintinnid sp.C	0	0
605	Eutintinnus neriticus	0	0
608	Parafavella sp.	0	0
682	flatworm sp. B	0	0
701	Synchaeta sp.	0	0
703	Brachionus sp.	0	25
740	Nematoda	0	0
801	Gastropod veliger	0	0
821	Bivalvia veliger	33	0
851	polychaete trochophore	0	0
855	spionid larva	0	0
880	scaleworm larva	0	0
901	Insecta	0	0
			mg Carbon per cubic meter
		1	0

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
170780	80199	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
715	302	2.0	18.0	23.8	0.9	1.7	4	-1	ship
745	306	3.0	18.8	21.2	1.7	2.3	3	-1	ship
815	312	1.0	20.9	18.6	17.0	8.7	1	-1	ship

		Station	302	306	312
		Depth	2.0	3.0	1.0
Code	Name			Number per cubic meter	
5	Acartia clausi F		1333	1000	8000
6	Acartia clausi M		1143	1000	2667
7	Acartia clausi C		1714	11333	10667
8	Acartia clausi N		190	2000	3333
100	Eurytemora affinis F		0	0	0
101	Eurytemora affinis M		0	0	0
102	Eurytemora affinis C		0	0	0
143	Sinocalanus dorii F		0	0	0
144	Sinocalanus dorii M		0	0	0
145	Sinocalanus dorii C		0	0	0
199	copepod nauplius		0	0	0
200	Cyclopoida		0	0	0
250	Harpacticoida		190	667	0
251	Harpacticoid B (bronze)		0	0	0
325	Synidotea laticauda imm.		0	333	0
333	Neomysis mercedis juv.		0	0	0
401	barnacle nauplius		381	1000	0
420	Ostracoda		0	0	0
441	Bosmina sp.		0	0	0
602	Tintinnopsis sp. A		190	0	0
603	Tintinnopsis sp. B		0	3000	0
821	Bivalvia veliger		0	0	0
855	spionid larva		0	0	1333
880	scaleworm larva		0	0	2000
				mg Carbon per cubic meter	
			7	16	42

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
170780	80199	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
905	318	1.0	20.4	17.6	12.8	10.7	1	-1	ship
940	324	1.0	20.4	16.5	7.2	5.3	1	-1	ship
1315	414	1.0	22.7	2.2	57.0	12.8	4	-1	ship

		Station	318	324	414
		Depth	1.0	1.0	1.0
Code	Name		Number per cubic meter		
5	Acartia clausi F		583	1714	0
6	Acartia clausi M		0	762	0
7	Acartia clausi C		7000	4000	0
8	Acartia clausi N		5250	17333	0
100	Eurytemora affinis F		0	0	0
101	Eurytemora affinis M		0	0	0
102	Eurytemora affinis C		0	0	500
143	Sinocalanus dorii F		0	0	667
144	Sinocalanus dorii M		0	0	0
145	Sinocalanus dorii C		0	0	833
199	copepod nauplius		0	0	167
200	Cyclopoida		0	0	0
250	Harpacticoida		0	0	167
251	Harpacticoid B (bronze)		0	0	0
325	Synidotea laticauda imm.		0	0	0
333	Neomysis mercedis juv.		0	0	0
401	barnacle nauplius		583	381	0
420	Ostracoda		0	0	0
441	Bosmina sp.		0	0	0
602	Tintinnopsis sp. A		8750	3048	0
603	Tintinnopsis sp. B		12833	0	0
821	Bivalvia veliger		1750	762	0
855	spionid larva		0	381	0
880	scaleworm larva		4667	1143	0
				mg Carbon per cubic meter	
			20	15	9

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
170780	80199	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1335	416	1.0	21.1	2.7	50.3	19.8	1	-1	ship
1445	432	1.0	22.2	0.9	17.2	13.8	1	-1	ship
1730	757	4.0	22.8	0.2	2.6	2.6	2	-1	ship

		Station	416	432	757
		Depth	1.0	1.0	4.0
Code	Name			Number per cubic meter	
5	Acartia clausi F		0	0	0
6	Acartia clausi M		0	0	0
7	Acartia clausi C		0	0	0
8	Acartia clausi N		0	0	0
100	Eurytemora affinis F		375	250	0
101	Eurytemora affinis M		250	83	0
102	Eurytemora affinis C		250	0	47
143	Sinocalanus dorii F		625	1583	93
144	Sinocalanus dorii M		0	167	0
145	Sinocalanus dorii C		500	667	140
199	copepod nauplius		125	0	0
200	Cyclopoida		0	83	0
250	Harpacticoida		0	0	0
251	Harpacticoid B (bronze)		125	0	0
325	Synidotea laticauda imm.		0	0	0
333	Neomysis mercedis juv.		250	0	0
401	barnacle nauplius		125	0	0
420	Ostracoda		0	83	0
441	Bosmina sp.		0	0	47
602	Tintinnopsis sp. A		0	0	0
603	Tintinnopsis sp. B		0	0	0
821	Bivalvia veliger		0	0	0
855	spionid larva		0	83	0
880	scaleworm larva		0	0	0
				mg Carbon per cubic meter	
			9	17	1

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
50880	80218	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1823	17	12.0	16.1	30.1	2.4	0.9	2	-1	ship
1829	17	6.0	16.6	29.9	2.4	0.8	1	-1	ship
1835	17	1.0	16.8	29.2	2.4	0.8	1	-1	ship
1626	15	15.0	17.4	27.9	0.9	1.7	1	-1	ship
1632	15	10.0	18.3	25.7	1.3	1.4	0	-1	ship
1638	15	1.0	19.1	24.3	2.2	2.0	1	-1	ship
1522	13	10.0	18.8	24.5	1.5	2.6	2	-1	ship
1528	13	5.0	19.4	23.1	2.5	1.6	0	-1	ship
1534	13	1.0	19.4	22.9	3.0	1.3	0	-1	ship

		Station	17			15			13	
		Depth	12.0	6.0	1.0	15.0	10.0	1.0	10.0	5.0	1.0
Code	Name		Number per cubic meter								
10	Acartia californiensis F		267	267	0	150	800	700	2100	133	0
11	Acartia californiensis M		0	400	0	0	133	817	900	133	0
12	Acartia californiensis C		2267	1067	2450	2100	2933	8983	10950	3067	8833
13	Acartia californiensis N		1333	1333	233	450	1067	2450	900	6800	6333
61	Paracalanus parvus M		267	0	0	0	0	0	0	0	0
62	Paracalanus parvus C		0	133	117	0	0	117	0	0	0
100	Eurytemora affinis F		0	0	0	0	0	0	0	0	0
101	Eurytemora affinis M		0	0	0	0	0	0	0	0	0
102	Eurytemora affinis C		0	0	0	0	0	117	0	0	0
143	Sinocalanus dorii F		0	0	0	0	0	0	0	0	0
144	Sinocalanus dorii M		0	0	0	0	0	0	0	0	0
145	Sinocalanus dorii C		0	0	0	0	0	0	0	0	0
192	Epilabidocera longipedata C		0	133	0	0	133	0	0	0	0
195	copepod nauplius D		0	133	0	0	0	0	0	0	0
197	copepod nauplius B		0	0	0	0	0	0	0	0	0
199	copepod nauplius		0	133	117	0	0	0	0	0	0
200	Cyclopoida		133	0	0	0	0	0	0	0	0
210	Oithona spp.		0	133	0	0	0	0	0	0	0
250	Harpacticoida		267	0	233	300	133	117	0	0	0
251	Harpacticoid B (bronze)		0	0	0	0	0	0	0	0	0
321	Isopoda imm.		0	0	0	0	133	0	0	0	0
350	Xanthid zoea		0	133	0	0	0	0	0	0	0
370	Natantia zoea		0	0	117	0	0	0	0	0	0
401	barnacle nauplius		1333	1200	467	0	400	1867	2100	3867	7500
402	barnacle cypris		0	0	0	0	0	0	0	0	0
441	Bosmina sp.		0	0	0	0	0	0	0	0	0
551	Engraulis mordax egg		0	0	0	300	0	0	150	0	0
602	Tintinnopsis sp. A		0	0	0	1350	667	1517	1800	0	167
603	Tintinnopsis sp. B		0	267	0	2700	4933	2217	150	0	0
605	Eutintinnus neriticus		0	0	0	0	933	350	0	0	0
608	Parafavella sp.		533	1467	1050	0	0	0	0	0	0
681	flatworm sp. A		133	133	117	0	0	117	0	0	0
701	Synchaeta sp.		109333	12133	5483	0	0	0	0	267	0
740	Nematoda		0	0	0	0	0	0	0	0	0
750	Ectoprocta (Bryozoa)		0	0	0	0	133	0	0	0	0
801	Gastropod veliger		133	0	117	0	0	0	0	0	0
821	Bivalvia veliger		0	133	117	0	533	467	0	0	0

	Station		17			15			13	
	Depth	12.0	6.0	1.0	15.0	10.0	1.0	10.0	5.0	1.0
Code	Name				Number per cubic meter					
855	spionid larva	267	267	583	0	0	0	0	0	0
880	scaleworm larva	267	133	0	0	133	233	0	0	0
899	pelagic polychaete	0	0	0	0	133	0	0	0	0
					mg Carbon per cubic meter					
		13	8	5	3	8	15	20	10	19

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
50880	80218	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1247	9	15.0	20.1	17.9	3.4	3.8	1	-1	ship
1253	9	5.0	20.2	17.1	3.0	1.8	0	-1	ship
1259	9	1.0	20.5	15.2	4.8	1.5	0	-1	ship
1120	6	10.0	21.1	7.3	22.4	11.3	5	0	ship
1126	6	5.0	21.2	7.1	24.7	11.3	4	0	ship
1132	6	1.0	21.3	6.0	22.5	6.7	3	0	ship
935	3	11.0	22.4	0.6	5.8	5.8	2	1	ship
941	3	5.0	22.4	0.5	5.1	4.8	3	1	ship
947	3	1.0	22.4	0.4	5.0	4.4	1	1	ship

		Station	9			6			3	
		Depth	15.0	5.0	1.0	10.0	5.0	1.0	11.0	5.0	1.0
Code	Name		Number per cubic meter								
10	Acartia californiensis F		4500	2833	0	0	0	0	0	0	0
11	Acartia californiensis M		3667	833	0	0	0	0	0	0	0
12	Acartia californiensis C		3667	2500	533	0	0	0	0	0	0
13	Acartia californiensis N		333	0	800	0	0	0	0	0	0
61	Paracalanus parvus M		0	0	0	0	0	0	0	0	0
62	Paracalanus parvus C		0	0	0	0	0	0	0	0	0
100	Eurytemora affinis F		0	0	0	0	0	200	400	0	150
101	Eurytemora affinis M		0	0	0	0	0	600	400	0	0
102	Eurytemora affinis C		0	0	0	0	250	2200	267	333	750
143	Sinocalanus dorii F		0	0	0	0	0	200	1600	2667	1050
144	Sinocalanus dorii M		0	0	0	0	0	0	133	1500	450
145	Sinocalanus dorii C		0	0	0	0	0	0	933	3167	900
192	Epilabidocera longipedata C		0	0	0	0	0	0	0	0	0
195	copepod nauplius D		0	0	0	0	0	0	0	0	0
197	copepod nauplius B		0	0	0	0	250	2000	0	0	0
199	copepod nauplius		0	0	3200	0	250	6000	0	667	150
200	Cyclopoida		0	0	0	0	0	0	0	1667	2550
210	Oithona spp.		0	0	0	0	0	0	0	0	0
250	Harpacticoida		0	0	0	667	0	200	0	500	450
251	Harpacticoid B (bronze)		0	0	0	0	0	0	400	167	450
321	Isopoda imm.		0	0	0	0	0	0	0	0	0
350	Xanthid zoea		0	0	0	0	0	0	0	0	0
370	Natantia zoea		0	0	0	167	250	200	0	0	0
401	barnacle nauplius		5333	15000	3867	4167	4750	5400	0	0	0
402	barnacle cypris		0	0	0	167	0	0	0	0	0
441	Bosmina sp.		0	0	0	0	0	0	0	0	0
551	Ensraulis mordax egg		0	0	0	0	0	0	0	0	0
602	Tintinnopsis sp. A		4500	1500	267	0	0	0	0	0	0
603	Tintinnopsis sp. B		0	0	0	0	0	0	0	0	0
605	Eutintinnus neriticus		0	0	0	0	0	0	0	0	0
608	Parafavella sp.		0	0	0	0	0	0	0	0	0
681	flatworm sp. A		0	333	0	0	0	0	0	0	0
701	Synchaeta sp.		0	0	1067	0	0	0	0	0	0
740	Nematoda		0	0	0	0	250	0	0	0	0
750	Ectoprocta (Bryozoa)		0	0	0	0	0	0	0	0	0
801	Gastropod veliger		0	0	0	0	0	0	0	0	0
821	Bivalvia veliger		0	0	0	0	0	0	0	0	0

Code	Name	Station	9			6			3	
		Depth	15.0	5.0	1.0	10.0	5.0	1.0	11.0	5.0	1.0
			Number per cubic meter								
855	spionid larva		0	333	0	3500	6500	3000	0	0	0
880	scaleworm larva		0	0	0	0	0	0	0	0	0
899	pelagic polychaete		0	0	0	0	0	0	0	0	0
			mg Carbon per cubic meter								
			30	35	7	15	23	22	19	46	24

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
50880	80218	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
803	657	1.5	22.2	0.0	5.8	1.7	1	1	ship

Station 657
Depth 1.5

Code	Name	Number per cubic meter
10	Acartia californiensis F	0
11	Acartia californiensis M	0
12	Acartia californiensis C	0
13	Acartia californiensis N	0
61	Paracalanus parvus M	0
62	Paracalanus parvus C	0
100	Eurytemora affinis F	0
101	Eurytemora affinis M	0
102	Eurytemora affinis C	0
143	Sinocalanus dorii F	583
144	Sinocalanus dorii M	167
145	Sinocalanus dorii C	0
192	Epilabidocera longipedata C	0
195	copepod nauplius D	0
197	copepod nauplius B	0
199	copepod nauplius	83
200	Cyclopoida	0
210	Oithona spp.	0
250	Harpacticoida	250
251	Harpacticoid B (bronze)	0
321	Isopoda imm.	0
350	Xanthid zoea	0
370	Natantia zoea	0
401	barnacle nauplius	0
402	barnacle cypris	0
441	Bosmina sp.	750
551	Engraulis mordax egg	0
602	Tintinnopsis sp. A	0
603	Tintinnopsis sp. B	0
605	Eutintinnus neriticus	0
608	Parafavella sp.	0
681	flatworm sp. A	0
701	Synchaeta sp.	0
740	Nematoda	0
750	Ectoprocta (Bryozoa)	0
801	Gastropod veliger	0
821	Bivalvia veliger	0
855	spionid larva	0
880	scaleworm larva	0
899	pelagic polychaete	0
		mg Carbon per cubic meter
		7

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
50880	80218	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1540	324	0.5	20.0	20.8	6.8	15.8	5	1	ship
1220	414	1.0	21.0	5.6	53.8	12.4	1	1	ship
1150	418	1.0	19.8	3.9	51.6	20.0	1	1	ship

		Station	324	414	418
		Depth	0.5	1.0	1.0
Code	Name			Number per cubic meter	
10	Acartia californiensis F		1750	333	0
11	Acartia californiensis M		1000	0	0
12	Acartia californiensis C		2250	667	0
13	Acartia californiensis N		1000	333	0
100	Eurytemora affinis F		0	1333	400
101	Eurytemora affinis M		0	1000	800
102	Eurytemora affinis C		0	667	2600
143	Sinocalanus dorii F		0	0	400
144	Sinocalanus dorii M		0	0	0
145	Sinocalanus dorii C		0	0	0
197	copepod nauplius B		0	0	600
199	copepod nauplius		0	0	400
251	Harpacticoid B (bronze)		0	0	0
401	barnacle nauplius		6250	3667	0
441	Bosmina sp.		0	0	0
445	Daphnia pulex		0	0	0
602	Tintinnopsis sp. A		2000	0	0
603	Tintinnopsis sp. B		500	0	0
821	Bivalvia veliger		250	0	0
855	spionid larva		0	2667	200
880	scaleworm larva		250	0	0
				mg Carbon per cubic meter	
			19	21	10

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
50880	80218	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1050	432	1.0	20.6	2.6	16.5	12.6	4	1	ship
820	757	5.0	23.2	0.2	2.1	2.7	4	1	ship

	Station	432	757
	Depth	1.0	5.0
Code	Name	Number per cubic meter	
10	Acartia californiensis F	0	0
11	Acartia californiensis M	0	0
12	Acartia californiensis C	0	0
13	Acartia californiensis N	0	0
100	Eurytemora affinis F	600	0
101	Eurytemora affinis M	750	0
102	Eurytemora affinis C	150	0
143	Sinocalanus dorii F	150	250
144	Sinocalanus dorii M	0	333
145	Sinocalanus dorii C	0	250
197	copepod nauplius B	0	0
199	copepod nauplius	0	0
251	Harpacticoid B (bronze)	150	0
401	barnacle nauplius	0	0
441	Bosmina sp.	0	583
445	Daphnia pulex	0	167
602	Tintinnopsis sp. A	0	0
603	Tintinnopsis sp. B	0	0
821	Bivalvia veliger	0	167
855	spionid larva	0	0
880	scaleworm larva	0	0
		mg Carbon per cubic meter	
		5	6

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
190880	80232	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
935	17	14.0	15.0	31.3	1.5	1.3	2	1	ship
641	17	6.0	15.2	31.2	1.5	1.3	1	1	ship
647	17	1.0	15.3	30.8	1.5	1.0	1	1	ship
815	15	20.0	16.5	28.5	2.3	2.0	2	0	ship
822	15	10.0	16.8	28.0	2.1	1.8	1	0	ship
829	15	1.0	17.1	26.4	2.2	1.8	0	0	ship
912	13	10.0	17.2	26.7	2.0	2.2	0	-1	ship
924	13	5.0	18.0	22.8	2.9	1.7	0	-1	ship
924	13	1.0	18.0	22.8	2.9	1.7	0	-1	ship

		Station	17			15			13	
		Depth	14.0	6.0	1.0	20.0	10.0	1.0	10.0	5.0	1.0
Code	Name		Number per cubic meter								
5	Acartia clausi F		2800	1467	200	0	0	0	0	0	0
6	Acartia clausi M		0	183	0	0	0	0	0	0	0
7	Acartia clausi C		2400	3300	1200	0	0	0	0	0	0
8	Acartia clausi N		0	550	0	0	0	0	0	0	0
10	Acartia californiensis F		0	0	0	115	1558	192	3000	692	0
11	Acartia californiensis M		0	0	0	0	692	192	2077	346	0
12	Acartia californiensis C		0	0	0	2538	6231	3269	10154	6404	1615
13	Acartia californiensis N		0	0	0	231	865	1346	3462	9173	1846
60	Paracalanus parvus F		200	367	0	0	0	0	0	0	0
61	Paracalanus parvus M		400	367	0	0	0	0	0	0	0
62	Paracalanus parvus C		200	183	0	0	173	0	0	0	0
100	Eurytemora affinis F		0	0	0	0	0	0	0	0	0
101	Eurytemora affinis M		0	0	0	0	0	0	0	0	0
102	Eurytemora affinis C		0	0	0	0	0	0	0	0	0
143	Sinocalanus dorii F		0	0	0	0	0	0	0	0	0
145	Sinocalanus dorii C		0	0	0	0	0	0	0	0	0
196	copepod nauplius A		0	0	0	0	0	0	0	173	0
197	copepod nauplius B		0	0	0	0	0	385	0	0	0
198	copepod nauplius C		0	0	0	0	0	192	0	173	0
199	copepod nauplius		0	183	400	0	173	385	0	0	0
200	Cyclopoida		0	0	200	0	0	0	0	0	0
210	Oithona spp.		0	0	0	0	0	0	0	0	0
250	Harpacticoida		600	367	400	115	0	962	0	173	0
270	Microsetella sp.		0	0	0	115	0	0	0	0	0
280	Harpacticoid sp.A		200	0	0	0	173	0	462	0	0
281	Harpacticoid A N		0	0	0	0	0	0	231	0	0
305	Ampelisca milleri		0	0	0	231	0	0	0	173	0
333	Neomysis mercedis juv.		0	0	0	0	0	0	0	0	0
355	Cancer zoea		0	0	200	0	0	0	0	0	0
370	Natantia zoea		0	0	0	0	0	0	0	0	0
376	Crangon sp.		0	0	0	0	0	0	0	0	0
401	barnacle nauplius		400	733	200	0	865	1346	0	519	2538
402	barnacle cypris		0	0	0	0	0	0	0	346	0
441	Bosmina sp.		0	0	0	0	0	0	0	0	0
545	Ascidian larva		0	0	0	115	0	192	0	0	0
601	tintinnid spp.		0	0	0	0	0	0	0	173	0
602	Tintinnopsis sp. A		0	0	0	0	692	577	1385	692	231

		Station		17			15			13	
		Depth	14.0	6.0	1.0	20.0	10.0	1.0	10.0	5.0	1.0
Code	Name					Number per cubic meter					
603	Tintinnopsis sp. B		0	0	0	0	173	577	462	0	0
605	Eutintinnus neriticus		0	183	0	231	692	2885	231	346	692
608	Parafavella sp.		0	183	0	0	0	0	0	0	0
681	flatworm sp. A		0	0	600	0	519	0	0	173	0
701	Synchaeta sp.		0	367	0	0	173	192	0	0	0
748	Phoronida larva		0	0	0	115	0	0	0	0	0
801	Gastropod veliger		0	183	0	0	173	0	0	0	0
821	Bivalvia veliger		0	0	0	115	519	769	462	2250	462
855	spionid larva		0	367	0	115	173	192	0	346	0
880	scaleworm larva		0	0	0	0	0	385	231	2077	0
						mg Carbon per cubic meter					
			13	11	4	3	14	9	22	17	5

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
190880	80232	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1038	9	22.0	18.5	19.3	3.6	4.0	4	-1	ship
1045	9	10.0	18.6	18.3	3.0	2.6	1	-1	ship
1052	9	1.0	18.9	15.3	4.2	1.3	0	-1	ship
1224	6	9.0	19.1	9.4	16.1	3.4	2	-1	ship
1230	6	5.0	19.1	9.4	16.1	3.4	0	-1	ship
1236	6	1.0	19.5	6.7	33.9	4.3	1	-1	ship
1345	3	10.0	20.1	2.3	12.8	4.6	2	-1	ship
1351	3	5.0	20.4	2.2	11.7	4.1	1	-1	ship
1357	3	1.0	20.5	2.2	11.8	3.9	1	-1	ship

		Station			9			6			3	
		Depth	22.0	10.0	1.0	9.0	5.0	1.0	10.0	5.0	1.0
Code	Name					Number per cubic meter					
5	Acartia clausi F		0	0	0	0	0	0	0	0	0
6	Acartia clausi M		0	0	0	0	0	0	0	0	0
7	Acartia clausi C		0	0	0	0	0	0	0	0	0
8	Acartia clausi N		0	0	0	0	0	0	0	0	0
10	Acartia californiensis F		1385	3077	0	6250	143	0	0	0	0
11	Acartia californiensis M		1846	1923	0	357	0	0	0	0	0
12	Acartia californiensis C		1615	7500	192	893	143	0	0	0	0
13	Acartia californiensis N		0	3654	385	357	429	357	0	0	0
60	Paracalanus parvus F		0	0	0	0	0	0	0	0	0
61	Paracalanus parvus M		0	0	0	0	0	0	0	0	0
62	Paracalanus parvus C		0	0	0	0	0	0	0	0	0
100	Eurytemora affinis F		0	0	0	179	0	0	1066	133	0
101	Eurytemora affinis M		0	0	0	179	286	179	400	133	0
102	Eurytemora affinis C		0	0	0	0	143	1429	1200	933	2933
143	Sinocalanus dorii F		0	0	0	0	0	0	800	133	133
145	Sinocalanus dorii C		0	0	0	0	0	0	666	533	0
196	copepod nauplius A		0	0	0	0	0	0	0	0	0
197	copepod nauplius B		0	0	0	1786	0	179	0	0	0
198	copepod nauplius C		0	0	0	0	0	0	0	0	0
199	copepod nauplius		0	0	0	0	286	0	0	4133	18000
200	Cyclopoida		0	0	0	0	0	0	0	0	0
210	Oithona spp.		0	0	0	0	0	0	133	0	133
250	Harpacticoida		0	0	0	179	0	714	0	0	133
270	Microsetella sp.		0	0	0	0	0	0	0	0	0
280	Harpacticoid sp.A		0	0	0	0	0	0	0	0	0
281	Harpacticoid A N		0	0	0	0	0	0	0	0	0
305	Ampelisca milleri		0	0	0	0	0	0	0	0	0
333	Neomysis mercedis juv.		0	0	0	0	0	0	2	0	0
355	Cancer zoea		0	0	0	0	0	0	0	0	0
370	Natantia zoea		0	0	0	536	286	0	0	0	0
376	Crangon sp.		1	0	0	0	0	0	0	0	0
401	barnacle nauplius		231	9039	6731	4643	14143	15893	0	133	0
402	barnacle cypris		0	0	0	1071	0	536	133	0	0
441	Bosmina sp.		0	0	0	0	0	0	0	0	0
545	Ascidian larva		0	0	0	0	0	0	0	0	0
601	tintinnid spp.		0	0	0	0	0	0	0	0	0
602	Tintinnopsis sp. A		923	6154	192	0	0	0	0	0	0

		Station		9			6			3	
		Depth	22.0	10.0	1.0	9.0	5.0	1.0	10.0	5.0	1.0
Code	Name					Number per cubic meter					
603	Tintinnopsis sp. B		231	0	0	0	0	0	0	0	0
605	Eutintinnus neriticus		692	577	0	0	0	0	0	0	0
608	Parafavella sp.		0	0	0	0	0	0	0	0	0
681	flatworm sp. A		0	0	0	0	0	0	0	0	0
701	Synchaeta sp.		0	0	0	0	0	3571	0	0	0
748	Phoronida larva		0	0	0	0	0	0	0	0	0
801	Gastropod veliger		0	192	0	0	0	0	0	0	0
821	Bivalvia veliger		0	0	0	0	0	0	0	0	0
855	spionid larva		0	0	0	8571	6000	8929	0	0	133
880	scaleworm larva		0	385	385	357	0	0	0	0	0
						mg Carbon per cubic meter					
			9	33	11	51	36	48	14	5	6

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
190880	80232	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1606	657	3.0	21.3	0.0	3.3	1.6	1	0	ship

Station 657
Depth 3.0

Code	Name	Number per cubic meter
5	Acartia clausi F	0
6	Acartia clausi M	0
7	Acartia clausi C	0
8	Acartia clausi N	0
10	Acartia californiensis F	0
11	Acartia californiensis M	0
12	Acartia californiensis C	0
13	Acartia californiensis N	0
60	Paracalanus parvus F	0
61	Paracalanus parvus M	0
62	Paracalanus parvus C	0
100	Eurytemora affinis F	0
101	Eurytemora affinis M	0
102	Eurytemora affinis C	0
143	Sinocalanus dorii F	0
145	Sinocalanus dorii C	0
196	copepod nauplius A	0
197	copepod nauplius B	0
198	copepod nauplius C	0
199	copepod nauplius	0
200	Cyclopoida	133
210	Oithona spp.	0
250	Harpacticoida	133
270	Microsetella sp.	0
280	Harpacticoid sp.A	0
281	Harpacticoid A N	0
305	Ampelisca milleri	0
333	Neomysis mercedis juv.	0
355	Cancer zoea	0
370	Natantia zoea	0
376	Crangon sp.	0
401	barnacle nauplius	0
402	barnacle cypris	0
441	Bosmina sp.	1333
545	Ascidian larva	0
601	tintinnid spp.	0
602	Tintinnopsis sp. A	0
603	Tintinnopsis sp. B	0
605	Eutintinnus neriticus	0
608	Parafavella sp.	0
681	flatworm sp. A	0
701	Synchaeta sp.	0
748	Phoronida larva	0
801	Gastropod veliger	0
821	Bivalvia veliger	0

	Station	657
	Depth	3.0

Code	Name	Number per cubic meter
855	spionid larva	0
880	scaleworm larva	0
		mg Carbon per cubic meter
		3

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
190880	80232	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
720	302	2.0	17.7	23.5	4.1	1.7	0	1	ship
750	306	3.0	17.6	23.3	4.1	1.8	0	1	ship
820	312	1.0	18.4	21.6	8.1	4.6	0	0	ship

		Station	302	306	312
		Depth	2.0	3.0	1.0
Code	Name		Number per cubic meter		
10	Acartia californiensis F		0	0	5333
11	Acartia californiensis M		0	0	5000
12	Acartia californiensis C		5400	5600	12667
13	Acartia californiensis N		2200	8800	1667
100	Eurytemora affinis F		0	0	0
101	Eurytemora affinis M		0	0	0
102	Eurytemora affinis C		0	0	0
143	Sinocalanus dorii F		0	0	0
144	Sinocalanus dorii M		0	0	0
145	Sinocalanus dorii C		0	0	0
192	Epilabidocera longipedata C		0	0	0
197	copepod nauplius B		0	0	0
198	copepod nauplius C		200	0	0
199	copepod nauplius		0	0	0
200	Cyclopoida		0	0	0
210	Oithona spp.		0	0	0
250	Harpacticoida		0	0	0
270	Microsetella sp.		0	0	0
280	Harpacticoid sp.A		0	0	333
401	barnacle nauplius		4800	7000	1667
402	barnacle cypris		0	0	0
420	Ostracoda		0	0	0
441	Bosmina sp.		0	0	0
445	Daphnia pulex		0	0	0
551	Engraulis mordax egg		200	0	0
602	Tintinnopsis sp. A		600	1000	333
603	Tintinnopsis sp. B		0	0	0
605	Eutintinnus neriticus		600	3800	0
681	flatworm sp. A		200	600	0
751	Ectoprocta larva		0	0	333
821	Bivalvia veliger		0	1400	1000
851	polychaete trochophore		200	200	0
855	spionid larva		0	0	0
880	scaleworm larva		0	200	0
				mg Carbon per cubic meter	
			13	18	37

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
190880	80232	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
850	318	1.5	18.2	22.0	4.8	2.8	0	-1	ship
925	324	1.0	18.2	21.4	5.9	2.9	0	-1	ship
1015	334	1.0	18.7	20.9	3.5	1.3	1	-1	ship

		Station	318	324	334
		Depth	1.5	1.0	1.0
Code	Name		Number per cubic meter		
10	Acartia californiensis F		500	667	0
11	Acartia californiensis M		500	833	0
12	Acartia californiensis C		15000	16333	2017
13	Acartia californiensis N		8000	3333	5500
100	Eurytemora affinis F		0	0	0
101	Eurytemora affinis M		0	0	0
102	Eurytemora affinis C		0	0	0
143	Sinocalanus dorii F		0	0	0
144	Sinocalanus dorii M		0	0	0
145	Sinocalanus dorii C		0	0	0
192	Epilabidocera longipedata C		0	167	0
197	copepod nauplius B		0	0	0
198	copepod nauplius C		0	0	0
199	copepod nauplius		0	0	0
200	Cyclopoida		0	0	0
210	Oithona spp.		0	0	0
250	Harpacticoida		0	0	0
270	Microsetella sp.		0	167	0
280	Harpacticoid sp.A		0	167	0
401	barnacle nauplius		5667	5333	550
402	barnacle cypris		0	0	0
420	Ostracoda		0	2000	183
441	Bosmina sp.		0	0	0
445	Daphnia pulex		0	0	0
551	Engraulis mordax egg		0	0	0
602	Tintinnopsis sp. A		333	3167	0
603	Tintinnopsis sp. B		333	667	183
605	Eutintinnus neriticus		0	1500	183
681	flatworm sp. A		0	667	0
751	Ectoprocta larva		0	0	0
821	Bivalvia veliger		167	1000	0
851	polychaete trochophore		0	0	0
855	spionid larva		0	167	183
880	scaleworm larva		0	0	0
				mg Carbon per cubic meter	
			24	31	4

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
190880	80232	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1230	414	1.0	19.8	6.9	40.3	5.0	1	-1	ship
1300	418	1.0	19.6	7.2	35.8	4.8	0	-1	ship
1400	432	1.0	20.0	4.4	29.6	6.2	1	-1	ship

		Station	414	418	432
		Depth	1.0	1.0	1.0
Code	Name		Number per cubic meter		
10	Acartia californiensis F		250	0	0
11	Acartia californiensis M		0	0	0
12	Acartia californiensis C		0	0	0
13	Acartia californiensis N		0	0	0
100	Eurytemora affinis F		0	0	0
101	Eurytemora affinis M		0	0	0
102	Eurytemora affinis C		2000	3500	2200
143	Sinocalanus dorii F		0	0	0
144	Sinocalanus dorii M		0	0	0
145	Sinocalanus dorii C		0	250	200
192	Epilabidocera longipedata C		0	0	0
197	copepod nauplius B		0	250	0
198	copepod nauplius C		0	0	0
199	copepod nauplius		0	7500	4800
200	Cyclopoida		1250	0	0
210	Oithona spp.		0	250	0
250	Harpacticoida		250	500	600
270	Microsetella sp.		0	0	0
280	Harpacticoid sp.A		0	0	0
401	barnacle nauplius		19500	12000	1600
402	barnacle cypris		0	0	600
420	Ostracoda		0	0	0
441	Bosmina sp.		0	0	0
445	Daphnia pulex		0	0	0
551	Engraulis mordax egg		0	0	0
602	Tintinnopsis sp. A		0	0	0
603	Tintinnopsis sp. B		0	0	0
605	Eutintinnus neriticus		0	0	0
681	flatworm sp. A		0	0	0
751	Ectoprocta larva		0	0	0
821	Bivalvia veliger		0	0	0
851	polychaete trochophore		0	0	0
855	spionid larva		3250	1750	400
880	scaleworm larva		0	0	0
			mg Carbon per cubic meter		
			44	28	9

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
190880	80232	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1700	757	5.0	21.9	0.2	2.6	2.7	3	-1	ship

Station 757
Depth 5.0

Code	Name	Number per cubic meter
10	Acartia californiensis F	0
11	Acartia californiensis M	0
12	Acartia californiensis C	0
13	Acartia californiensis N	0
100	Eurytemora affinis F	100
101	Eurytemora affinis M	100
102	Eurytemora affinis C	0
143	Sinocalanus dorii F	4000
144	Sinocalanus dorii M	500
145	Sinocalanus dorii C	1500
192	Epilabidocera longipedata C	0
197	copepod nauplius B	0
198	copepod nauplius C	0
199	copepod nauplius	0
200	Cyclopoida	0
210	Oithona spp.	0
250	Harpacticoida	0
270	Microsetella sp.	0
280	Harpacticoid sp.A	0
401	barnacle nauplius	0
402	barnacle cypris	0
420	Ostracoda	0
441	Bosmina sp.	300
445	Daphnia pulex	100
551	Engraulis mordax egg	0
602	Tintinnopsis sp. A	0
603	Tintinnopsis sp. B	0
605	Eutintinnus neriticus	0
681	flatworm sp. A	0
751	Ectoprocta larva	0
821	Bivalvia veliger	100
851	polychaete trochophore	0
855	spionid larva	0
880	scaleworm larva	0

mg Carbon per cubic meter

41

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
40980	80248	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
634	17	28.0	16.1	30.4	2.3	1.0	4	1	ship
640	17	14.0	16.2	30.2	2.1	1.0	3	1	ship
646	17	1.0	17.0	28.2	2.8	1.0	1	1	ship
750	15	20.0	17.4	27.1	2.1	2.5	2	1	ship
756	15	10.0	17.5	26.5	2.2	2.4	1	1	ship
802	15	1.0	17.9	24.5	5.6	2.1	0	1	ship
851	13	10.0	17.7	25.5	0.2	4.8	5	1	ship
859	13	5.0	17.9	25.0	0.2	3.8	3	1	ship
907	13	1.0	17.9	23.5	3.3	1.8	1	1	ship

		Station	17			15			13	
		Depth	28.0	14.0	1.0	20.0	10.0	1.0	10.0	5.0	1.0
Code	Name		Number per cubic meter								
5	Acartia clausi F		409	682	435	0	0	0	0	0	0
7	Acartia clausi C		2182	1500	6364	0	0	0	0	0	0
8	Acartia clausi N		273	682	2727	0	0	0	0	0	0
10	Acartia californiensis F		0	0	0	1636	2727	0	2600	4200	1050
11	Acartia californiensis M		0	0	0	818	1364	200	800	2000	817
12	Acartia californiensis C		0	0	0	10909	15545	4200	2400	8200	8750
13	Acartia californiensis N		0	0	0	3545	16091	800	200	400	233
62	Paracalanus parvus C		136	0	0	273	0	0	0	0	0
100	Eurytemora affinis F		0	0	0	0	0	0	0	0	0
101	Eurytemora affinis M		0	0	0	0	0	0	0	0	0
102	Eurytemora affinis C		0	0	0	0	0	0	0	0	0
143	Sinocalanus dorii F		0	0	0	0	0	0	0	0	0
145	Sinocalanus dorii C		0	0	0	0	0	0	0	0	0
160	Pseudodiaptomus eurybalinus F		0	0	0	0	0	0	0	0	0
194	copepodite (unknown)		0	0	0	0	0	0	0	0	0
196	copepod nauplius A		0	0	0	0	273	0	0	0	0
197	copepod nauplius B		0	0	0	0	0	0	0	0	0
198	copepod nauplius C		0	0	0	0	0	0	0	0	0
199	copepod nauplius		0	0	0	0	0	0	0	0	0
200	Cyclopoida		0	0	455	0	0	0	0	0	0
250	Harpacticoida		0	409	227	0	0	0	200	0	117
251	Harpacticoid B (bronze)		0	0	0	0	0	0	0	0	0
321	Isopoda imm.		0	0	0	0	0	0	0	0	0
333	Neomysis mercedis juv.		0	0	0	0	0	0	0	0	0
345	Grapsid zoea		0	0	0	0	0	0	0	0	0
350	Xanthid zoea		0	136	0	0	0	0	0	0	0
376	Crangon sp.		0	1	0	0	0	0	0	0	0
401	barnacle nauplius		136	545	2045	1364	1091	1000	200	1000	6417
402	barnacle cypris		0	0	0	0	0	0	0	0	0
420	Ostracoda		0	136	0	0	0	0	0	0	0
440	Cladocera		0	0	0	0	0	0	0	0	0
441	Bosmina sp.		0	0	0	0	0	0	0	0	0
551	Engraulis mordax egg		0	0	0	0	273	0	0	0	117
602	Tintinnopsis sp. A		0	0	0	1909	1636	200	600	1200	583
603	Tintinnopsis sp. B		0	0	227	818	1091	0	200	0	0
605	Eutintinnus neriticus		0	0	0	0	0	0	200	400	583
608	Parafavella sp.		0	136	0	0	0	0	0	0	0

		Station		17			15			13	
		Depth	28.0	14.0	1.0	20.0	10.0	1.0	10.0	5.0	1.0
Code	Name					Number per cubic meter					
630	coiled Foraminifera		0	136	0	0	0	0	0	0	0
681	flatworm sp. A		0	273	1364	0	0	0	0	400	583
701	Synchaeta sp.		0	136	682	545	0	0	0	0	0
703	Brachionus sp.		0	0	0	0	0	0	0	0	0
740	Nematoda		0	0	0	0	0	0	0	0	0
751	Ectoprocta larva		0	0	0	0	273	0	0	0	117
801	Gastropod veliger		0	0	0	273	0	0	0	0	0
821	Bivalvia veliger		0	0	0	273	818	200	200	600	117
851	polychaete trochophore		0	136	0	0	0	0	0	0	0
855	spionid larva		0	0	0	545	0	0	0	200	0
880	scaleworm larva		0	0	0	0	0	0	0	0	0
						mg Carbon per cubic meter					
			3	5	13	19	26	5	11	25	22

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
40980	80248	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1020	9	18.0	18.5	18.0	3.8	3.4	3	1	ship
1028	9	9.0	18.5	17.8	4.2	3.6	3	1	ship
1036	9	1.0	18.5	15.9	5.2	2.7	1	1	ship
1156	6	9.0	19.1	8.9	22.5	5.8	5	1	ship
1202	6	5.0	19.1	8.6	22.4	4.8	3	1	ship
1208	6	1.0	19.2	8.4	28.1	4.8	4	1	ship
1313	3	11.0	19.9	2.6	14.7	8.1	5	1	ship
1319	3	5.0	19.9	2.6	14.0	7.0	5	1	ship
1325	3	1.0	19.9	2.6	13.5	5.8	5	1	ship

		Station		9			6			3	
		Depth	18.0	9.0	1.0	9.0	5.0	1.0	11.0	5.0	1.0
Code	Name					Number per cubic meter					
5	Acartia clausi F		0	0	0	0	0	0	0	0	0
7	Acartia clausi C		0	0	0	0	0	0	0	0	0
8	Acartia clausi N		0	0	0	0	0	0	0	0	0
10	Acartia californiensis F		3667	5167	333	400	600	667	0	0	0
11	Acartia californiensis M		2167	1667	0	200	200	0	0	0	0
12	Acartia californiensis C		1333	1333	667	0	0	0	0	0	0
13	Acartia californiensis N		333	333	500	0	0	0	0	0	0
62	Paracalanus parvus C		0	0	0	0	0	0	0	0	0
100	Eurytemora affinis F		0	0	0	0	200	167	500	900	400
101	Eurytemora affinis M		0	0	0	0	0	0	200	100	300
102	Eurytemora affinis C		0	0	0	0	600	167	300	400	200
143	Sinocalanus dorii F		0	0	0	0	0	0	100	0	200
145	Sinocalanus dorii C		0	0	0	0	0	0	100	0	100
160	Pseudodiaptomus eurybalinus F		0	0	0	0	0	0	0	0	0
194	copepodite (unknown)		0	0	0	0	0	0	0	0	0
196	copepod nauplius A		0	0	0	0	0	0	0	0	0
197	copepod nauplius B		0	0	333	0	0	0	0	0	0
198	copepod nauplius C		0	0	0	200	200	0	0	0	0
199	copepod nauplius		0	0	0	0	0	167	400	300	100
200	Cyclopoida		0	0	0	0	0	0	0	0	0
250	Harpacticoida		167	0	0	400	400	1167	100	300	0
251	Harpacticoid B (bronze)		333	0	167	0	0	0	300	100	0
321	Isopoda imm.		0	167	0	0	0	0	0	0	0
333	Neomysis mercedis juv.		0	1	0	0	0	0	0	0	0
345	Grapsid zoea		0	0	0	0	0	0	0	0	100
350	Xanthid zoea		0	0	0	0	0	0	0	0	0
376	Crangon sp.		0	0	0	0	0	0	0	0	0
401	barnacle nauplius		3167	4667	7833	3600	9800	3833	100	200	300
402	barnacle cypris		167	0	1000	0	1000	167	0	300	0
420	Ostracoda		167	0	0	0	0	0	0	0	0
440	Cladocera		0	0	0	0	0	167	0	0	0
441	Bosmina sp.		0	0	0	0	0	0	0	0	0
551	Engraulis mordax egg		0	0	0	0	0	0	0	0	0
602	Tintinnopsis sp. A		2000	8667	9833	600	0	0	0	0	0
603	Tintinnopsis sp. B		0	167	500	0	0	0	0	0	0
605	Eutintinnus neriticus		0	0	0	0	0	0	0	0	0
608	Parafavella sp.		0	0	0	0	0	0	0	0	0

		Station		9			6			3	
		Depth	18.0	9.0	1.0	9.0	5.0	1.0	11.0	5.0	1.0
Code	Name					Number per cubic meter					
630	coiled Foraminifera		0	0	0	0	0	0	0	0	0
681	flatworm sp. A		333	0	0	0	0	0	0	0	0
701	Synchaeta sp.		0	0	0	1800	0	0	0	0	100
703	Brachionus sp.		0	0	0	0	0	0	0	0	0
740	Nematoda		0	0	0	200	0	0	0	0	100
751	Ectoprocta larva		167	0	0	0	0	0	0	0	0
801	Gastropod veliger		0	0	0	0	0	0	0	0	0
821	Bivalvia veliger		0	500	1667	0	200	333	0	0	0
851	polychaete trochophore		0	0	167	0	0	0	0	0	0
855	spionid larva		0	333	167	3600	400	833	0	200	200
880	scaleworm larva		0	0	167	0	0	0	0	0	0
						mg Carbon per cubic meter					
			22	27	17	16	21	12	4	5	5

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
40980	80248	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1515	657	2.0	21.8	0.1	8.3	2.5	3	0	ship

Station 657
Depth 2.0

Code	Name	Number per cubic meter
5	Acartia clausi F	0
7	Acartia clausi C	0
8	Acartia clausi N	0
10	Acartia californiensis F	0
11	Acartia californiensis M	0
12	Acartia californiensis C	0
13	Acartia californiensis N	0
62	Paracalanus parvus C	0
100	Eurytemora affinis F	0
101	Eurytemora affinis M	0
102	Eurytemora affinis C	0
143	Sinocalanus dorii F	0
145	Sinocalanus dorii C	0
160	Pseudodiaptomus eurybalinus F	44
194	copepodite (unknown)	44
196	copepod nauplius A	0
197	copepod nauplius B	0
198	copepod nauplius C	0
199	copepod nauplius	44
200	Cyclopoida	222
250	Harpacticoida	44
251	Harpacticoid B (bronze)	0
321	Isopoda imm.	0
333	Neomysis mercedis juv.	0
345	Grapsid zoea	0
350	Xanthid zoea	0
376	Crangon sp.	0
401	barnacle nauplius	0
402	barnacle cypris	0
420	Ostracoda	0
440	Cladocera	0
441	Bosmina sp.	222
551	Engraulis mordax egg	0
602	Tintinnopsis sp. A	0
603	Tintinnopsis sp. B	0
605	Eutintinnus neriticus	0
608	Parafavella sp.	0
630	coiled Foraminifera	0
681	flatworm sp. A	0
701	Synchaeta sp.	0
703	Brachionus sp.	89
740	Nematoda	0
751	Ectoprocta larva	0
801	Gastropod veliger	0
821	Bivalvia veliger	0

	Station	657
	Depth	2.0

Code	Name	Number per cubic meter
851	polychaete trochophore	0
855	spionid larva	0
880	scaleworm larva	0
		mg Carbon per cubic meter
		1

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
40980	80248	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
700	302	2.0	18.1	24.9	3.6	5.2	5	1	ship
730	306	2.0	18.1	23.7	6.3	5.4	5	1	ship
800	312	1.0	18.6	22.7	16.0	10.4	3	1	ship

		Station	302	306	312
		Depth	2.0	2.0	1.0
Code	Name		Number per cubic meter		
10	Acartia californiensis F		0	1333	5250
11	Acartia californiensis M		0	4333	7583
12	Acartia californiensis C		4000	17000	12250
13	Acartia californiensis N		667	8667	7583
100	Eurytemora affinis F		0	0	0
101	Eurytemora affinis M		0	0	0
102	Eurytemora affinis C		0	0	0
143	Sinocalanus dorii F		0	0	0
144	Sinocalanus dorii M		0	0	0
145	Sinocalanus dorii C		0	0	0
194	copepodite (unknown)		0	0	0
197	copepod nauplius B		0	0	0
199	copepod nauplius		0	0	0
200	Cycloroida		0	0	0
250	Harpacticoida		0	0	0
251	Harpacticoid B (bronze)		0	0	0
401	barnacle nauplius		667	333	4083
420	Ostracoda		0	0	0
441	Bosmina sp.		0	0	0
602	Tintinnopsis sp. A		1333	2333	26833
603	Tintinnopsis sp. B		6000	5000	102667
605	Eutintinnus neriticus		0	0	0
681	flatworm sp. A		0	667	583
682	flatworm sp. B		0	0	0
701	Synchaeta sp.		0	0	0
703	Brachionus sp.		0	0	0
801	Gastropod veliger		0	0	0
821	Bivalvia veliger		667	0	583
851	polychaete trochophore		0	0	1167
852	polychaete larva		0	0	0
855	spionid larva		0	333	1750
880	scaleworm larva		0	0	1167
				mg Carbon per cubic meter	
			5	28	55

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
40980	80248	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
830	318	1.5	18.1	22.6	8.0	6.6	3	1	ship
900	324	1.5	17.7	23.6	9.1	3.7	3	1	ship
945	334	1.5	17.7	25.3	8.9	5.9	3	1	ship

		Station	318	324	334
		Depth	1.5	1.5	1.5
Code	Name			Number per cubic meter	
10	Acartia californiensis F		0	3667	3333
11	Acartia californiensis M		2000	5000	3333
12	Acartia californiensis C		9333	7000	14667
13	Acartia californiensis N		2667	1333	5333
100	Eurytemora affinis F		0	0	0
101	Eurytemora affinis M		0	0	0
102	Eurytemora affinis C		0	0	0
143	Sinocalanus dorii F		0	0	0
144	Sinocalanus dorii M		0	0	0
145	Sinocalanus dorii C		0	0	0
194	copepodite (unknown)		0	0	0
197	copepod nauplius B		0	0	0
199	copepod nauplius		0	0	0
200	Cyclopoida		0	0	0
250	Harpacticoida		0	0	0
251	Harpacticoid B (bronze)		0	0	0
401	barnacle nauplius		0	15667	3333
420	Ostracoda		0	5000	667
441	Bosmina sp.		0	0	0
602	Tintinnopsis sp. A		8000	1665	6000
603	Tintinnopsis sp. B		45333	333	54667
605	Eutintinnus neriticus		667	0	667
681	flatworm sp. A		667	667	667
682	flatworm sp. B		0	333	0
701	Synchaeta sp.		0	0	0
703	Brachionus sp.		0	0	0
801	Gastropod veliger		1333	0	0
821	Bivalvia veliger		667	0	667
851	polychaete trochophore		0	0	0
852	polychaete larva		0	0	0
855	spionid larva		667	0	0
880	scaleworm larva		0	0	0
				mg Carbon per cubic meter	
			15	54	35

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
40980	80248	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1150	414	1.5	19.4	7.9	61.0	10.7	3	1	ship
1220	418	2.0	20.4	5.5	33.8	6.8	1	1	ship
1310	432	1.5	21.0	3.1	25.6	6.5	1	1	ship

		Station	414	418	432
		Depth	1.5	2.0	1.5
Code	Name		Number per cubic meter		
10	Acartia californiensis F		0	0	0
11	Acartia californiensis M		0	0	0
12	Acartia californiensis C		0	0	0
13	Acartia californiensis N		0	0	0
100	Eurytemora affinis F		1111	333	0
101	Eurytemora affinis M		0	333	1200
102	Eurytemora affinis C		3889	1333	1400
143	Sinocalanus dorii F		0	0	200
144	Sinocalanus dorii M		0	0	0
145	Sinocalanus dorii C		0	0	0
194	copepodite (unknown)		0	0	0
197	copepod nauplius B		0	333	200
199	copepod nauplius		23333	4333	11600
200	Cyclopoida		0	0	200
250	Harpacticoida		0	1000	600
251	Harpacticoid B (bronze)		0	0	0
401	barnacle nauplius		13889	3333	1800
420	Ostracoda		556	0	0
441	Rosmina sp.		0	0	0
602	Tintinnopsis sp. A		556	0	0
603	Tintinnopsis sp. B		0	0	0
605	Eutintinnus neriticus		0	0	0
681	flatworm sp. A		0	0	0
682	flatworm sp. B		0	0	0
701	Synchaeta sp.		1111	0	0
703	Brachionus sp.		0	0	0
801	Gastropod veliger		0	0	0
821	Bivalvia veliger		0	333	0
851	polychaete trochophore		0	0	0
852	polychaete larva		0	1333	0
855	spionid larva		4444	0	0
880	scaleworm larva		0	0	0
				mg Carbon per cubic meter	
			41	10	11

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
40980	80248	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1648	757	10.0	21.3	0.2	2.7	2.8	2	0	ship
1656	757	2.0	21.6	0.2	9.7	2.9	2	0	ship

		Station	757	
		Depth	10.0	2.0
Code	Name			Number per cubic meter
10	Acartia californiensis F		0	0
11	Acartia californiensis M		0	0
12	Acartia californiensis C		0	0
13	Acartia californiensis N		0	0
100	Eurytemora affinis F		0	0
101	Eurytemora affinis M		0	0
102	Eurytemora affinis C		0	0
143	Sinocalanus dorii F		428	133
144	Sinocalanus dorii M		39	0
145	Sinocalanus dorii C		233	200
194	copepodite (unknown)		0	67
197	copepod nauplius B		0	0
199	copepod nauplius		0	0
200	Cyclopoida		78	333
250	Harpacticoida		39	67
251	Harpacticoid B (bronze)		156	0
401	barnacle nauplius		0	0
420	Ostracoda		0	0
441	Bosmina sp.		156	9800
602	Tintinnopsis sp. A		0	0
603	Tintinnopsis sp. B		0	0
605	Eutintinnus neriticus		0	0
681	flatworm sp. A		0	0
682	flatworm sp. B		0	0
701	Synchaeta sp.		0	67
703	Brachionus sp.		1400	1333
801	Gastropod veliger		0	0
821	Bivalvia veliger		39	0
851	polychaete trochophore		0	0
852	polychaete larva		0	0
855	spionid larva		0	0
880	scaleworm larva		0	0
				mg Carbon per cubic meter
			5	20

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
170980	80261	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
617	17	14.0	15.9	31.1	5.4	1.2	2	1	lab
623	17	7.0	15.9	31.0	5.3	1.0	2	1	ship
629	17	1.0	16.2	30.0	4.5	0.6	0	1	ship
737	15	14.0	16.8	28.7	1.9	2.0	3	1	lab
743	15	7.0	17.5	26.3	1.7	1.1	1	1	ship
749	15	1.0	17.6	25.5	2.3	0.9	1	1	ship
840	13	9.5	17.3	27.3	0.9	1.1	2	1	ship
846	13	5.0	17.3	27.3	0.9	1.1	1	1	ship
852	13	1.0	17.9	24.2	2.4	1.1	0	1	ship

		Station	17			15			13	
		Depth	14.0	7.0	1.0	14.0	7.0	1.0	9.5	5.0	1.0
Code	Name		Number per cubic meter								
5	Acartia clausi F		1800	800	100	733	133	0	933	133	0
6	Acartia clausi M		2333	0	0	867	133	0	800	267	0
7	Acartia clausi C		2133	5800	1200	3533	3600	267	7067	8267	1454
8	Acartia clausi N		1867	200	1000	1400	3200	11333	2800	11333	9818
10	Acartia californiensis F		0	0	0	0	0	0	267	0	0
11	Acartia californiensis M		0	0	0	0	0	0	133	0	0
12	Acartia californiensis C		0	0	0	0	0	0	3600	0	0
13	Acartia californiensis N		0	0	0	0	0	0	1467	0	0
17	Acartia tonsa F		0	0	0	67	0	0	133	0	0
18	Acartia tonsa M		200	0	0	0	0	0	0	0	0
36	Calanus tenuicornis C		0	200	0	0	0	0	0	0	0
60	Paracalanus parvus F		67	200	0	133	0	0	133	0	0
61	Paracalanus parvus M		0	200	0	0	0	0	133	0	0
62	Paracalanus parvus C		133	200	0	0	0	0	0	0	121
72	Pseudocalanus sp.A C		67	0	0	0	0	0	0	0	0
100	Eurytemora affinis F		0	0	0	0	0	0	0	0	0
101	Eurytemora affinis M		0	0	0	0	0	0	0	0	0
102	Eurytemora affinis C		0	0	0	0	0	0	0	0	0
103	Eurytemora affinis N		0	0	0	0	0	0	0	0	0
143	Sinocalanus dorii F		0	0	0	0	0	0	0	0	0
144	Sinocalanus dorii M		0	0	0	0	0	0	0	0	0
145	Sinocalanus dorii C		0	0	0	0	0	0	0	0	0
194	copepodite (unknown)		0	0	0	0	0	0	0	0	0
195	copepod nauplius D		0	0	0	67	0	0	133	133	0
196	copepod nauplius A		0	0	200	0	0	0	0	133	0
197	copepod nauplius B		67	0	0	0	0	0	0	0	0
199	copepod nauplius		0	0	0	0	0	0	0	0	0
200	Cyclopoida		0	0	0	67	0	0	0	0	0
210	Oithona spp.		200	0	0	0	0	0	0	0	0
250	Harpacticoida		800	1400	300	467	0	0	133	133	0
251	Harpacticoid B (bronze)		0	0	0	0	0	0	0	0	0
280	Harpacticoid sp.A		0	0	0	0	0	0	0	133	121
281	Harpacticoid A N		0	0	0	0	0	0	0	0	121
300	Amphipoda		0	0	0	1	0	0	133	0	0
333	Neomysis mercedis Juv.		0	0	0	0	0	0	0	0	0
360	Pinnotherid zoea		67	0	0	0	0	0	0	0	0
370	Natantia zoea		0	0	0	0	0	0	0	0	0

	Station		17			15			13	
	Depth	14.0	7.0	1.0	14.0	7.0	1.0	9.5	5.0	1.0
Code	Name	Number per cubic meter								
376	Crangon sp.	0	0	0	0	0	0	0	0	0
401	barnacle nauplius	867	800	900	533	1600	667	533	6667	242
402	barnacle cypris	67	0	0	0	0	133	0	0	0
602	Tintinnopsis sp. A	0	0	0	333	267	0	1867	667	0
603	Tintinnopsis sp. B	0	0	0	0	133	1	0	933	15151
605	Eutintinnus neriticus	67	0	0	67	0	0	267	133	0
609	Tintinnopsis sp. E (1/4B)	0	0	100	0	0	0	0	0	0
681	flatworm sp. A	400	0	100	200	1467	0	0	267	0
682	flatworm sp. B	0	0	0	0	0	0	0	0	0
701	Synchaeta sp.	0	1000	500	0	0	400	133	0	363
750	Ectoprocta (Bryozoa)	133	0	0	0	0	0	0	0	0
801	Gastropod veliger	0	0	0	67	133	0	133	0	0
821	Bivalvia veliger	67	400	200	333	1200	133	400	3467	0
851	polychaete trochophore	0	0	200	0	0	0	0	0	0
855	spionid larva	133	400	0	0	0	0	133	133	242
860	Eteone longa	0	0	0	0	0	0	0	0	0
880	scaleworm larva	0	0	0	0	0	0	133	0	0
899	pelagic polychaete	67	0	0	0	0	0	0	133	0
		mg Carbon per cubic meter								
		15	13	4	9	9	3	17	21	3

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
170980	80261	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1014	9	14.0	18.1	20.6	4.2	2.7	1	1	ship
1020	9	7.0	18.1	20.0	3.5	2.2	1	1	ship
1026	9	1.0	18.2	14.9	3.0	1.4	0	1	ship
1238	6	7.0	18.5	9.1	14.8	2.9	1	1	ship
1244	6	1.0	19.0	6.6	24.3	4.8	0	1	ship
1353	3	11.0	19.1	1.4	10.3	6.8	3	0	ship
1359	3	5.0	19.5	1.2	8.1	5.1	2	0	ship
1405	3	1.0	19.6	1.2	5.7	4.4	3	0	ship

		Station	9			6		3	
		Depth	14.0	7.0	1.0	7.0	1.0	11.0	5.0	1.0
Code	Name					Number per cubic meter				
5	Acartia clausi F		4267	3733	0	7400	0	0	0	0
6	Acartia clausi M		2667	1867	0	600	0	0	0	0
7	Acartia clausi C		8000	9600	2800	2600	0	0	0	0
8	Acartia clausi N		1333	1333	30800	0	0	0	0	0
10	Acartia californiensis F		0	0	0	0	0	0	0	0
11	Acartia californiensis M		0	0	0	0	0	0	0	0
12	Acartia californiensis C		0	0	0	0	0	0	0	0
13	Acartia californiensis N		0	0	0	0	0	0	0	0
17	Acartia tonsa F		0	0	0	0	0	0	0	0
18	Acartia tonsa M		0	0	0	0	0	0	0	0
36	Calanus tenuicornis C		0	0	0	0	0	0	0	0
60	Paracalanus parvus F		0	0	0	0	0	0	0	0
61	Paracalanus parvus M		0	0	0	0	0	0	0	0
62	Paracalanus parvus C		0	0	0	0	0	0	0	0
72	Pseudocalanus sp.A C		0	0	0	0	0	0	0	0
100	Eurytemora affinis F		0	0	0	200	166	900	1200	133
101	Eurytemora affinis M		0	0	0	800	0	450	0	133
102	Eurytemora affinis C		0	0	0	600	0	150	667	533
103	Eurytemora affinis N		0	0	0	200	0	0	0	0
143	Sinocalanus dorii F		0	0	0	200	0	0	267	0
144	Sinocalanus dorii M		0	0	0	0	0	0	267	0
145	Sinocalanus dorii C		0	0	0	0	0	150	133	267
194	copepodite (unknown)		0	0	0	0	0	0	0	0
195	copepod nauplius D		0	0	0	0	0	0	0	0
196	copepod nauplius A		0	0	0	0	0	0	0	0
197	copepod nauplius B		0	0	0	0	0	0	0	0
199	copepod nauplius		0	0	0	0	3333	0	0	9600
200	Cyclopoida		0	0	0	0	0	300	0	0
210	Oithona spp.		267	0	0	0	0	0	0	0
250	Harpacticoida		0	0	0	200	333	0	0	133
251	Harpacticoid B (bronze)		0	0	0	0	0	150	0	133
280	Harpacticoid sp.A		0	0	0	0	0	0	0	0
281	Harpacticoid A N		0	0	0	0	0	0	0	0
300	Amphipoda		0	0	0	0	0	0	0	0
333	Neomysis mercedis juv.		0	0	0	0	0	300	0	0
360	Pinnotherid zoea		0	0	0	0	0	0	0	0
370	Natantia zoea		0	0	0	200	0	0	0	0
376	Crangon sp.		0	0	0	0	0	0	1	0

		Station		9			6			3	
		Depth	14.0	7.0	1.0	7.0	1.0	11.0	5.0	1.0
Code	Name					Number per cubic meter				
401	barnacle nauplius		800	4533	1167	1000	1667	0	0	0
402	barnacle cypris		0	0	0	0	0	0	133	0
602	Tintinnopsis sp. A		14400	15467	700	1800	0	0	0	0
603	Tintinnopsis sp. B		29333	42667	14233	0	167	0	0	0
605	Eutintinnus neriticus		0	0	0	0	0	0	0	0
609	Tintinnopsis sp. E (1/4B)		0	0	0	0	0	0	0	0
681	flatworm sp. A		0	267	0	0	0	0	0	0
682	flatworm sp. B		0	0	0	0	167	0	0	0
701	Synchaeta sp.		0	0	1867	0	500	0	0	0
750	Ectoprocta (Bryozoa)		0	0	0	0	0	0	0	0
801	Gastropod veliger		0	0	0	0	0	0	0	0
821	Bivalvia veliger		8267	6667	700	200	0	150	0	0
851	polychaete trochophore		0	0	0	0	0	0	0	0
855	spionid larva		267	0	0	0	667	0	0	133
860	Eteone longa		0	0	0	0	167	0	0	0
880	scaleworm larva		267	0	0	0	0	0	0	0
899	pelagic polychaete		0	0	0	0	0	0	0	0
						mg Carbon per cubic meter				
			28	31	8	30	6	6	9	4

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
170980	80261	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1544	657	2.0	20.5	0.1	2.0	1.4	1	-1	ship

Station 657
Depth 2.0

Code	Name	Number per cubic meter
5	Acartia clausi F	0
6	Acartia clausi M	0
7	Acartia clausi C	0
8	Acartia clausi N	0
10	Acartia californiensis F	0
11	Acartia californiensis M	0
12	Acartia californiensis C	0
13	Acartia californiensis N	0
17	Acartia tonsa F	0
18	Acartia tonsa M	0
36	Calanus tenuicornis C	0
60	Paracalanus parvus F	0
61	Paracalanus parvus M	0
62	Paracalanus parvus C	0
72	Pseudocalanus sp.A C	0
100	Eurytemora affinis F	0
101	Eurytemora affinis M	0
102	Eurytemora affinis C	0
103	Eurytemora affinis N	0
143	Sinocalanus dorii F	55
144	Sinocalanus dorii M	0
145	Sinocalanus dorii C	0
194	copepodite (unknown)	55
195	copepod nauplius D	0
196	copepod nauplius A	0
197	copepod nauplius B	0
199	copepod nauplius	55
200	Cyclopoida	222
210	Oithona spp.	0
250	Harpacticoida	55
251	Harpacticoid B (bronze)	0
280	Harpacticoid sp.A	0
281	Harpacticoid A N	0
300	Amphipoda	0
333	Neomysis mercedis juv.	0
360	Pinnotherid zoea	0
370	Natantia zoea	0
376	Crangon sp.	0
401	barnacle nauplius	0
402	barnacle cypris	0
602	Tintinnopsis sp. A	0
603	Tintinnopsis sp. B	0
605	Eutintinnus neriticus	0
609	Tintinnopsis sp. E (1/4B)	0
681	flatworm sp. A	0

	Station	657
	Depth	2.0

Code	Name	Number per cubic meter
682	flatworm sp. B	0
701	Synchaeta sp.	0
750	Ectoprocta (Bryozoa)	0
801	Gastropod veliger	0
821	Bivalvia veliger	0
851	polychaete trochophore	0
855	spionid larva	0
860	Eteone longa	0
880	scaleworm larva	0
899	pelagic polychaete	0
		mg Carbon per cubic meter
		1

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
170980	80261	North S.F. Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
748	306	2.5	18.1	24.7	2.5	1.2	1	1	ship
810	312	1.0	18.5	22.2	4.6	2.3	1	1	ship
847	318	1.0	18.5	21.7	5.3	2.3	1	1	ship

		Station	306	312	318
		Depth	2.5	1.0	1.0
Code	Name			Number per cubic meter	
5	Acartia clausi F		0	0	444
7	Acartia clausi C		3067	25600	17333
8	Acartia clausi N		4800	43200	21333
100	Eurytemora affinis F		0	0	0
101	Eurytemora affinis M		0	0	0
102	Eurytemora affinis C		0	0	0
143	Sinocalanus dorii F		0	0	0
145	Sinocalanus dorii C		0	0	0
194	copepodite (unknown)		0	0	0
199	copepod nauplius		0	0	0
200	Cyclopoida		0	0	0
250	Harpacticoida		133	267	0
281	Harpacticoid A N		0	0	889
360	Pinnotherid zoea		0	0	0
401	barnacle nauplius		7067	9600	14667
441	Rosmina sp.		0	0	0
602	Tintinnopsis sp. A		533	267	2667
603	Tintinnopsis sp. B		267	2975600	154222
605	Eutintinnus neriticus		367	0	444
681	flatworm sp. A		133	0	0
702	Synchaeta sp. egg		0	0	444
801	Gastropod veliger		0	267	0
821	Bivalvia veliger		1333	267	0
855	spionid larva		400	267	0
				mg Carbon per cubic meter	
			15	64	41

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
170980	80261	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
920	324	1.0	18.4	21.6	29.6	3.7	1	1	ship
1209	414	1.0	19.6	4.6	34.0	3.7	1	1	ship
1231	418	1.0	19.4	3.8	23.7	6.7	1	1	ship

		Station	324	414	418
		Depth	1.0	1.0	1.0
Code	Name			Number per cubic meter	
5	Acartia clausi F		0	0	0
7	Acartia clausi C		34667	0	0
8	Acartia clausi N		34667	0	0
100	Eurytemora affinis F		0	0	0
101	Eurytemora affinis M		0	0	83
102	Eurytemora affinis C		0	0	500
143	Sinocalanus dorii F		0	0	0
145	Sinocalanus dorii C		0	0	0
194	copepodite (unknown)		0	200	0
199	copepod nauplius		0	28000	9000
200	Cyclopoida		0	200	0
250	Harpacticoida		0	400	500
281	Harpacticoid A N		0	0	0
360	Pinnotherid zoea		0	200	833
401	barnacle nauplius		4000	1800	500
441	Bosmina sp.		0	0	0
602	Tintinnopsis sp. A		6667	0	0
603	Tintinnopsis sp. B		36000	0	0
605	Eutintinnus neriticus		0	0	0
681	flatworm sp. A		0	0	0
702	Synchaeta sp. egg		1333	0	0
801	Gastropod veliger		0	0	0
821	Bivalvia veliger		0	200	0
855	spionid larva		0	200	0
				mg Carbon per cubic meter	
			38	8	3

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
170980	80261	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1240	432	1.0	19.7	2.3	14.3	5.7	3	1	ship
1648	757	10.0	20.1	0.1	99.9	2.8	1	-1	ship
1654	757	2.0	20.1	0.1	32.5	2.8	1	-1	ship

		Station	432	757	
		Depth	1.0	10.0	2.0
Code	Name			Number per cubic meter	
5	Acartia clausi F		0	0	0
7	Acartia clausi C		0	0	0
8	Acartia clausi N		0	0	0
100	Eurytemora affinis F		0	67	0
101	Eurytemora affinis M		0	0	0
102	Eurytemora affinis C		200	0	0
143	Sinocalanus dorii F		400	333	50
145	Sinocalanus dorii C		200	67	0
194	copepodite (unknown)		0	0	0
199	copepod nauplius		2200	0	0
200	Cyclopoida		0	0	0
250	Harpacticoida		0	0	0
281	Harpacticoid A N		0	0	0
360	Pinnotherid zoea		200	0	0
401	barnacle nauplius		0	0	0
441	Rosmina sp.		0	67	100
602	Tintinnopsis sp. A		0	0	0
603	Tintinnopsis sp. B		0	0	0
605	Eutintinnus neriticus		0	0	0
681	flatworm sp. A		0	0	0
702	Synchaeta sp. egg		0	0	0
801	Gastropod veliger		0	0	0
821	Bivalvia veliger		0	0	0
855	spionid larva		0	0	0
				mg Carbon per cubic meter	
			4	3	1

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
161080	80290	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
632	17	14.0	14.6	31.3	1.9	1.5	3	0	ship
638	17	7.0	14.7	31.2	1.9	1.7	3	0	ship
644	17	1.0	15.1	30.3	1.7	1.2	0	0	ship
744	15	14.0	15.9	28.5	1.3	0.9	0	1	ship
750	15	7.0	15.9	27.9	1.3	0.9	0	1	ship
756	15	1.0	16.3	25.0	1.3	0.8	0	1	ship
847	13	9.0	16.4	26.7	1.0	0.9	0	1	ship
853	13	5.0	16.5	26.5	1.1	0.8	0	1	ship
859	13	1.0	16.5	24.7	1.7	0.7	1	1	ship

		Station	17			15			13	
		Depth	14.0	7.0	1.0	14.0	7.0	1.0	9.0	5.0	1.0
Code	Name		Number per cubic meter								
5	Acartia clausi F		1400	600	2400	600	267	0	0	0	0
6	Acartia clausi M		600	200	200	200	0	0	0	0	0
7	Acartia clausi C		2200	2000	3000	2600	2533	0	0	0	0
8	Acartia clausi N		1200	800	1000	200	267	0	0	0	0
10	Acartia californiensis F		0	0	0	0	0	0	200	183	0
11	Acartia californiensis M		0	0	0	0	0	0	200	0	133
12	Acartia californiensis C		0	0	0	0	0	2333	14200	11000	3867
13	Acartia californiensis N		0	0	0	0	0	4000	4800	4400	18400
17	Acartia tonsa F		0	0	0	200	0	0	0	0	0
18	Acartia tonsa M		0	200	0	0	0	0	0	0	0
29	Tortanus discaudatus C		0	200	0	0	0	0	0	0	0
60	Paracalanus parvus F		0	0	0	0	0	133	0	0	0
61	Paracalanus parvus M		0	200	0	0	0	0	0	0	0
62	Paracalanus parvus C		200	400	0	0	400	0	0	183	0
100	Eurytemora affinis F		0	0	0	0	0	0	0	0	0
101	Eurytemora affinis M		0	0	0	0	0	0	0	0	0
102	Eurytemora affinis C		0	0	0	0	0	0	0	0	0
143	Sinocalanus dorii F		0	0	0	0	0	0	0	0	0
145	Sinocalanus dorii C		0	0	0	0	0	0	0	0	0
196	copepod nauplius A		0	0	0	0	133	0	0	0	0
197	copepod nauplius B		0	0	0	0	0	0	0	0	0
198	copepod nauplius C		0	0	0	0	0	167	0	183	0
199	copepod nauplius		0	0	0	0	0	0	0	0	0
200	Cyclopoida		0	0	0	0	0	167	0	0	0
210	Oithona spp.		400	0	0	200	0	0	600	916	0
213	Oithona spinirostris		200	0	0	0	0	0	0	0	0
220	Corycaeus sp.		0	200	1000	0	0	333	0	267	133
250	Harpacticoida		1000	400	1200	600	1200	167	1200	550	400
270	Microsetella sp.		200	0	0	0	0	0	0	0	0
280	Harpacticoid sp.A		200	0	200	0	0	0	0	183	0
281	Harpacticoid A N		0	0	0	0	0	0	400	0	0
331	Mysid juvenile		0	0	0	0	0	0	0	0	0
333	Neomysis mercedis juv.		0	0	0	0	0	0	0	0	0
401	barnacle nauplius		600	400	200	0	1600	2500	400	2933	2800
402	barnacle cypris		200	0	0	200	0	0	0	0	0
551	Ensraulis mordax egg		0	0	0	0	0	0	0	0	0
602	Tintinnopsis sp. A		0	0	0	0	0	0	0	0	0

Code	Name	Station		17			15			13	
		Depth	14.0	7.0	1.0	14.0	7.0	1.0	9.0	5.0	1.0
			Number per cubic meter								
603	Tintinnopsis sp. B		0	0	0	0	0	0	0	0	0
630	coiled Foraminifera		0	200	0	0	0	0	0	0	0
681	flatworm sp. A		0	0	0	0	133	0	0	0	0
701	Synchaeta sp.		200	0	0	0	0	1307	0	0	0
801	Gastropod veliger		0	0	200	0	1733	0	200	0	0
821	Bivalvia veliger		200	400	0	400	0	2167	1400	1467	533
850	Polychaeta		0	0	0	200	0	0	0	0	0
851	polychaete trochophore		0	0	0	200	0	0	0	0	0
855	spionid larva		200	200	0	0	800	50	0	367	667
880	scaleworm larva		0	0	0	200	0	0	200	0	0
			mg Carbon per cubic meter								
			10	7	13	7	9	8	16	17	12

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
161080	80290	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1014	9	14.0	17.2	19.0	2.0	2.0	2	1	ship
1020	9	7.0	17.2	15.8	2.0	1.4	1	1	ship
1026	9	1.0	17.1	12.6	5.3	1.6	1	1	ship
1151	6	6.0	17.4	8.5	14.6	4.2	2	0	ship
1157	6	1.0	17.5	6.1	21.0	3.6	1	0	ship
1312	3	12.0	17.9	1.5	10.4	6.1	4	-1	ship
1318	3	6.0	17.9	1.2	9.0	6.0	3	-1	ship
1324	3	1.0	17.8	0.9	9.7	4.6	2	-1	ship

		Station		9			6			3	
		Depth	14.0	7.0	1.0	6.0	1.0	12.0	6.0	1.0
Code	Name					Number per cubic meter				
5	Acartia clausi F		0	0	0	0	0	0	0	0
6	Acartia clausi M		0	0	0	0	0	0	0	0
7	Acartia clausi C		0	0	0	0	0	0	0	0
8	Acartia clausi N		0	0	0	0	0	0	0	0
10	Acartia californiensis F		2400	1600	200	0	0	0	0	0
11	Acartia californiensis M		3400	400	400	0	0	0	0	0
12	Acartia californiensis C		8400	11000	2400	0	0	0	0	0
13	Acartia californiensis N		1200	2800	11600	0	0	0	0	0
17	Acartia tonsa F		0	0	0	0	0	0	0	0
18	Acartia tonsa M		0	0	0	0	0	0	0	0
29	Tortanus discaudatus C		0	0	0	0	0	0	0	0
60	Paracalanus parvus F		200	0	0	0	0	0	0	0
61	Paracalanus parvus M		0	0	0	0	0	0	0	0
62	Paracalanus parvus C		0	0	0	0	0	0	0	0
100	Eurytemora affinis F		0	0	0	200	0	400	1167	0
101	Eurytemora affinis M		0	0	0	200	0	667	1500	0
102	Eurytemora affinis C		200	200	0	0	200	267	1833	1333
143	Sinocalanus dorii F		0	0	0	0	0	133	0	0
145	Sinocalanus dorii C		0	0	0	200	0	400	500	133
196	copepod nauplius A		0	0	0	0	0	0	0	0
197	copepod nauplius B		0	0	0	200	0	0	0	0
198	copepod nauplius C		0	200	0	0	200	0	0	0
199	copepod nauplius		0	0	0	1400	600	0	0	133
200	Cyclopoida		0	0	0	0	200	133	167	133
210	Oithona spp.		800	1200	0	0	0	0	0	0
213	Oithona spinirostris		200	0	0	0	0	0	0	0
220	Corycaeus sp.		0	400	0	0	0	0	0	0
250	Harpacticoida		200	0	0	0	400	0	167	0
270	Microsetella sp.		0	0	0	0	0	0	0	0
280	Harpacticoid sp.A		0	200	0	0	0	0	0	0
281	Harpacticoid A N		0	0	0	0	0	0	0	0
331	Mysid juvenile		0	0	0	6	0	0	0	0
333	Neomysis mercedis juv.		0	0	0	0	0	800	500	0
401	barnacle nauplius		1400	6400	600	1200	13400	0	0	0
402	barnacle cypris		0	200	0	0	200	0	0	0
551	Engraulis mordax egg		200	0	0	0	0	0	0	0
602	Tintinnopsis sp. A		12000	8600	600	4600	3800	0	0	0
603	Tintinnopsis sp. B		2400	400	0	0	0	0	0	0

		Station		9			6			3	
		Depth	14.0	7.0	1.0	6.0	1.0	12.0	6.0	1.0
Code	Name					Number per cubic meter				
630	coiled Foraminifera		0	0	0	0	0	0	0	0
681	flatworm sp. A		0	0	0	0	0	0	0	0
701	Synchaeta sp.		0	400	0	0	2200	0	0	0
801	Gastropod veliger		400	0	0	0	0	0	0	0
821	Bivalvia veliger		3200	4400	1200	0	10200	0	0	0
850	Polychaeta		0	0	0	0	0	0	0	0
851	polychaete trochophore		0	0	0	0	0	0	0	0
855	spionid larva		0	0	0	0	1200	0	0	0
880	scaleworm larva		0	200	200	0	0	0	0	0
						mg Carbon per cubic meter				
			24	28	6	4	28	6	12	2

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
161080	80290	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1530	657	2.0	16.9	0.1	2.1	1.3	2	-1	ship

Station 657
Depth 2.0

Code	Name	Number per cubic meter
5	Acartia clausi F	0
6	Acartia clausi M	117
7	Acartia clausi C	0
8	Acartia clausi N	0
10	Acartia californiensis F	0
11	Acartia californiensis M	0
12	Acartia californiensis C	0
13	Acartia californiensis N	0
17	Acartia tonsa F	0
18	Acartia tonsa M	0
29	Tortanus discaudatus C	0
60	Paracalanus parvus F	0
61	Paracalanus parvus M	0
62	Paracalanus parvus C	0
100	Eurytemora affinis F	0
101	Eurytemora affinis M	0
102	Eurytemora affinis C	0
143	Sinocalanus dorii F	0
145	Sinocalanus dorii C	350
196	copepod nauplius A	0
197	copepod nauplius B	0
198	copepod nauplius C	0
199	copepod nauplius	0
200	Cyclopoida	933
210	Oithona spp.	0
213	Oithona spinirostris	0
220	Corycaeus sp.	0
250	Harpacticoida	0
270	Microsetella sp.	0
280	Harpacticoid sp.A	0
281	Harpacticoid A N	0
331	Mysid juvenile	0
333	Neomysis mercedis juv.	0
401	barnacle nauplius	0
402	barnacle cypris	117
551	Engraulis mordax egg	0
602	Tintinnopsis sp. A	0
603	Tintinnopsis sp. B	0
630	coiled Foraminifera	0
681	flatworm sp. A	0
701	Synchaeta sp.	0
801	Gastropod veliger	0
821	Bivalvia veliger	0
850	Polychaeta	0
851	polychaete trochophore	0

	Station	657
	Depth	2.0

Code	Name	Number per cubic meter
855	spionid larva	0
880	scaleworm larva	0
		mg Carbon per cubic meter
		4

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
161080	80290	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
700	302	2.5	16.7	23.3	1.2	0.5	1	1	ship
720	306	3.0	16.6	25.0	1.6	0.9	1	1	ship
800	312	1.5	16.3	22.4	2.1	0.7	1	1	ship

		Station	302	306	312
		Depth	2.5	3.0	1.5
Code	Name			Number per cubic meter	
10	Acartia californiensis F		400	333	139
11	Acartia californiensis M		400	500	139
12	Acartia californiensis C		9000	9833	11111
13	Acartia californiensis N		6000	7333	11806
61	Paracalanus parvus M		200	0	0
62	Paracalanus parvus C		400	0	139
100	Eurytemora affinis F		0	0	0
101	Eurytemora affinis M		0	0	0
102	Eurytemora affinis C		0	0	0
143	Sinocalanus dorii F		0	0	0
144	Sinocalanus dorii M		0	0	0
145	Sinocalanus dorii C		0	0	0
194	copepodite (unknown)		0	0	0
197	copepod nauplius B		0	0	0
198	copepod nauplius C		0	0	0
199	copepod nauplius		200	0	139
200	Cyclopoida		0	0	0
201	Cyclopoid A (large-low sal)		0	0	0
210	Oithona spp.		400	833	1389
213	Oithona spinirostris		0	167	0
220	Corycaeus sp.		0	167	0
250	Harpacticoida		200	833	0
280	Harpacticoid sp.A		600	0	139
281	Harpacticoid A N		200	0	0
333	Neomysis mercedis Juv.		0	0	0
401	barnacle nauplius		400	167	556
441	Bosmina sp.		0	0	0
445	Daphnia pulex		0	0	0
602	Tintinnopsis sp. A		0	0	0
603	Tintinnopsis sp. B		200	0	0
605	Eutintinnus neriticus		0	0	0
681	flatworm sp. A		200	0	139
701	Synchaeta sp.		0	0	0
703	Brachionus sp.		0	0	0
740	Nematoda		0	0	0
801	Gastropod veliger		0	167	139
821	Bivalvia veliger		400	0	139
850	Polychaeta		200	0	0
855	spionid larva		1200	500	556
880	scaleworm larva		600	0	0
				mg Carbon per cubic meter	
			16	14	14

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
161080	80290	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
830	318	2.0	15.8	20.9	4.2	1.8	1	1	ship
900	324	1.5	15.1	21.7	6.0	1.9	1	1	ship
945	334	1.0	15.3	19.0	1.7	1.9	1	1	ship

		Station	318	324	334
		Depth	2.0	1.5	1.0
Code	Name		Number per cubic meter		
10	Acartia californiensis F		1000	2000	0
11	Acartia californiensis M		0	1000	0
12	Acartia californiensis C		82400	12000	9833
13	Acartia californiensis N		9400	2000	0
61	Paracalanus parvus M		0	0	0
62	Paracalanus parvus C		0	0	0
100	Eurytemora affinis F		0	0	0
101	Eurytemora affinis M		0	0	0
102	Eurytemora affinis C		0	0	167
143	Sinocalanus dorii F		0	0	0
144	Sinocalanus dorii M		0	0	0
145	Sinocalanus dorii C		0	0	0
194	copepodite (unknown)		0	0	0
197	copepod nauplius B		0	0	333
198	copepod nauplius C		0	0	0
199	copepod nauplius		0	0	25667
200	Cyclopoida		0	0	0
201	Cyclopoid A (large-low sal)		0	0	0
210	Oithona spp.		0	0	0
213	Oithona spinirostris		0	0	0
220	Corycaeus sp.		0	0	0
250	Harpacticoida		200	0	167
280	Harpacticoid sp.A		0	0	167
281	Harpacticoid A N		0	0	0
333	Neomysis mercedis juv.		0	0	0
401	barnacle nauplius		800	4000	2833
441	Bosmina sp.		0	0	0
445	Daphnia pulex		0	0	0
602	Tintinnopsis sp. A		0	4000	0
603	Tintinnopsis sp. B		0	1000	0
605	Eutintinnus neriticus		0	3000	0
681	flatworm sp. A		0	0	0
701	Synchaeta sp.		0	4000	167
703	Brachionus sp.		0	0	0
740	Nematoda		0	1000	0
801	Gastropod veliger		0	1000	0
821	Bivalvia veliger		200	5000	0
850	Polychaeta		0	0	0
855	spionid larva		2000	2000	167
880	scaleworm larva		0	0	167
				mg Carbon per cubic meter	
			76	32	16

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
161080	80290	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1200	414	1.0	17.1	3.8	45.9	5.5	3	1	ship
1230	418	1.0	17.4	2.7	18.4	4.0	1	1	ship
1320	432	1.0	18.2	1.1	10.6	4.7	1	1	ship

		Station	414	418	432
		Depth	1.0	1.0	1.0
Code	Name		Number per cubic meter		
10	Acartia californiensis F		0	0	0
11	Acartia californiensis M		0	0	0
12	Acartia californiensis C		0	0	0
13	Acartia californiensis N		0	0	0
61	Paracalanus parvus M		0	0	0
62	Paracalanus parvus C		0	0	0
100	Eurytemora affinis F		333	0	0
101	Eurytemora affinis M		1333	133	0
102	Eurytemora affinis C		5500	2800	0
143	Sinocalanus dorii F		167	0	267
144	Sinocalanus dorii M		0	0	0
145	Sinocalanus dorii C		0	0	0
194	copepodite (unknown)		0	0	400
197	copepod nauplius B		0	0	133
198	copepod nauplius C		0	267	0
199	copepod nauplius		20167	2133	2000
200	Cyclopoida		0	0	0
201	Cyclopoid A (large-low sal)		0	0	0
210	Oithona spp.		167	0	1200
213	Oithona spinirostris		0	0	0
220	Corycaeus sp.		0	0	0
250	Harpacticoida		167	667	0
280	Harpacticoid sp.A		0	0	0
281	Harpacticoid A N		0	0	0
333	Neomysis mercedis juv.		0	0	0
401	barnacle nauplius		1667	1600	267
441	Bosmina sp.		0	0	0
445	Daphnia pulex		0	0	0
602	Tintinnopsis sp. A		0	0	0
603	Tintinnopsis sp. B		0	0	0
605	Eutintinnus neriticus		0	0	0
681	flatworm sp. A		0	0	0
701	Synchaeta sp.		167	0	0
703	Brachionus sp.		0	0	0
740	Nematoda		0	133	0
801	Gastropod veliger		0	0	0
821	Bivalvia veliger		0	0	0
850	Polychaeta		0	0	0
855	spionid larva		167	0	0
880	scaleworm larva		0	0	0
			mg Carbon per cubic meter		
			16	7	5

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
161080	80290	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1634	757	10.0	17.8	0.1	6.7	2.5	3	-1	ship
1640	757	1.0	17.9	0.1	6.6	2.5	1	-1	ship

	Station	757	
	Depth	10.0	1.0
Code	Name	Number per cubic meter	
10	Acartia californiensis F	0	0
11	Acartia californiensis M	0	0
12	Acartia californiensis C	0	0
13	Acartia californiensis N	0	0
61	Paracalanus parvus M	0	0
62	Paracalanus parvus C	0	0
100	Eurytemora affinis F	0	0
101	Eurytemora affinis M	0	67
102	Eurytemora affinis C	0	133
143	Sinocalanus dorii F	600	133
144	Sinocalanus dorii M	100	67
145	Sinocalanus dorii C	100	400
194	copepodite (unknown)	100	0
197	copepod nauplius B	0	0
198	copepod nauplius C	0	0
199	copepod nauplius	0	0
200	Cyclopoida	0	133
201	Cyclopoid A (large-low sal)	200	0
210	Oithona spp.	0	0
213	Oithona spinirostris	0	0
220	Corycaeus sp.	0	0
250	Harpacticoida	100	0
280	Harpacticoid sp.A	0	0
281	Harpacticoid A N	0	0
333	Neomysis mercedis juv.	6	0
401	barnacle nauplius	0	0
441	Bosmina sp.	100	533
445	Daphnia pulex	0	133
602	Tintinnopsis sp. A	0	0
603	Tintinnopsis sp. B	0	0
605	Eutintinnus neriticus	0	0
681	flatworm sp. A	0	0
701	Synchaeta sp.	0	0
703	Brachionus sp.	200	1800
740	Nematoda	0	0
801	Gastropod veliger	0	0
821	Bivalvia veliger	0	0
850	Polychaeta	0	0
855	spionid larva	0	0
880	scaleworm larva	0	0
		ug Carbon per cubic meter	
		7	4

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
291080	80303	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
613	17	14.0	13.6	31.3	1.3	1.3	3	-1	ship
619	17	7.0	13.6	31.3	1.2	1.1	3	-1	ship
625	17	1.0	13.6	31.2	1.3	0.7	2	-1	ship
745	15	14.0	14.6	29.2	0.9	1.2	2	-1	ship
751	15	7.0	14.8	27.0	0.8	1.1	2	-1	ship
757	15	1.0	15.0	25.8	1.2	1.0	1	-1	ship
850	13	8.0	15.2	25.6	1.5	1.1	1	-1	ship
856	13	4.0	15.3	25.4	1.4	0.9	1	-1	ship
902	13	1.0	15.4	24.8	1.4	0.9	1	-1	ship

		Station		17			15			13	
		Depth	14.0	7.0	1.0	14.0	7.0	1.0	8.0	4.0	1.0
Code	Name					Number per cubic meter					
5	Acartia clausi F		400	400	0	667	533	400	0	0	0
6	Acartia clausi M		300	0	200	0	133	0	0	0	0
7	Acartia clausi C		1300	1000	1000	7867	3467	2667	0	0	0
8	Acartia clausi N		500	1400	200	1067	933	1867	0	0	0
10	Acartia californiensis F		0	0	0	0	0	0	533	0	0
11	Acartia californiensis M		0	0	0	0	0	0	400	400	0
12	Acartia californiensis C		0	0	0	0	0	0	6800	20933	19800
13	Acartia californiensis N		0	0	0	0	0	0	4533	5867	24400
27	Tortanus discaudatus F		100	0	0	0	0	0	0	0	0
29	Tortanus discaudatus C		100	0	0	0	133	0	0	0	0
60	Paracalanus parvus F		400	0	0	267	0	133	0	0	0
61	Paracalanus parvus M		100	0	0	0	0	0	0	0	0
62	Paracalanus parvus C		500	200	400	933	0	133	0	0	0
100	Eurytemora affinis F		0	0	0	0	0	0	0	0	0
101	Eurytemora affinis M		0	0	0	0	0	0	0	0	0
102	Eurytemora affinis C		0	0	0	0	0	0	0	0	0
103	Eurytemora affinis N		0	0	0	0	0	0	0	0	0
143	Sinocalanus dorii F		0	0	0	0	0	0	0	0	0
144	Sinocalanus dorii M		0	0	0	0	0	0	0	0	0
145	Sinocalanus dorii C		0	0	0	0	0	0	0	0	0
190	Epilabidocera longipedata F		0	0	0	0	0	0	0	0	0
195	copepod nauplius D		0	0	0	0	0	133	133	0	0
197	copepod nauplius B		0	0	0	0	0	0	0	0	0
198	copepod nauplius C		0	0	0	0	267	0	0	267	200
199	copepod nauplius		0	1400	0	0	0	133	533	667	0
200	Cyclopoida		0	0	0	0	0	0	0	0	0
210	Oithona spp.		200	600	0	267	133	267	400	667	0
213	Oithona spinirostris		0	200	0	0	0	0	133	0	0
220	Corycaeus sp.		0	0	0	0	133	267	0	133	0
250	Harpacticoida		800	400	1200	0	400	533	667	533	1200
251	Harpacticoid B (bronze)		0	0	0	0	0	0	0	0	0
270	Microsetella sp.		0	200	0	0	0	0	0	0	0
300	Amphipoda		0	0	0	133	0	0	0	0	0
321	Isopoda imm.		0	0	0	0	133	0	0	0	0
333	Neomysis mercedis juv.		0	0	0	0	0	0	0	0	0
376	Crangon sp.		0	0	0	0	0	0	0	0	0
401	barnacle nauplius		0	200	0	0	533	533	0	133	400

	Station		17			15			13	
	Depth	14.0	7.0	1.0	14.0	7.0	1.0	8.0	4.0	1.0
Code	Name	Number per cubic meter								
441	Bosmina sp.	0	0	0	0	0	0	0	0	0
545	Ascidian larva	0	0	0	0	0	0	0	133	0
602	Tintinnopsis sp. A	0	0	0	0	0	0	0	0	200
603	Tintinnopsis sp. B	0	600	0	133	0	0	267	0	0
605	Eutintinnus neriticus	0	0	0	0	0	0	0	0	0
608	Parafavella sp.	100	0	200	0	0	0	0	0	0
630	coiled Foraminifera	100	0	0	0	0	0	0	0	0
681	flatworm sp. A	0	0	0	0	0	0	0	0	0
682	flatworm sp. B	0	0	0	0	0	0	0	0	0
701	Synchaeta sp.	0	0	0	0	0	0	0	0	0
750	Ectoprocta (Bryozoa)	0	0	0	0	0	133	0	0	0
790	Mollusca	0	0	0	0	0	0	0	0	0
801	Gastropod veliger	100	600	0	0	133	133	0	133	200
821	Bivalvia veliger	200	200	200	0	133	0	0	800	0
855	spionid larva	100	400	200	0	133	133	0	133	0
		mg Carbon per cubic meter								
		7	5	3	10	7	6	9	20	20

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
291080	80303	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1039	9	9.0	15.8	18.0	0.9	1.4	1	-1	ship
1045	9	5.0	15.8	17.8	1.1	1.4	1	-1	ship
1051	9	1.0	15.9	14.7	2.7	1.6	1	-1	ship
1230	6	6.0	16.1	7.5	17.3	6.3	4	-1	ship
1236	6	1.0	16.2	6.8	15.8	3.3	2	-1	ship
1355	3	10.0	16.6	1.2	8.0	6.0	5	-1	ship
1401	3	5.0	16.6	1.1	7.0	5.0	5	-1	ship
1407	3	1.0	16.8	1.0	4.4	4.6	2	-1	ship

		Station	9			6			3	
		Depth	9.0	5.0	1.0	6.0	1.0	10.0	5.0	1.0
Code	Name		Number per cubic meter							
5	Acartia clausi F		0	0	0	0	400	0	0	0
6	Acartia clausi M		0	0	0	0	0	0	0	0
7	Acartia clausi C		0	0	0	0	0	0	0	0
8	Acartia clausi N		0	0	0	0	0	0	0	0
10	Acartia californiensis F		4050	3600	200	0	0	0	0	0
11	Acartia californiensis M		2700	2000	600	0	0	0	0	0
12	Acartia californiensis C		8700	12200	8200	0	0	0	0	0
13	Acartia californiensis N		1350	200	3400	0	0	0	0	0
27	Tortanus discaudatus F		0	0	0	0	0	0	0	0
29	Tortanus discaudatus C		0	0	0	0	0	0	0	0
60	Paracalanus parvus F		0	0	0	0	0	0	0	0
61	Paracalanus parvus M		0	0	0	0	0	0	0	0
62	Paracalanus parvus C		0	0	0	0	0	0	0	0
100	Eurytemora affinis F		0	0	0	400	0	900	1667	56
101	Eurytemora affinis M		0	0	0	400	0	1200	2333	111
102	Eurytemora affinis C		0	0	0	800	0	900	833	56
103	Eurytemora affinis N		0	0	0	200	0	0	0	0
143	Sinocalanus dorii F		0	0	0	0	0	200	167	0
144	Sinocalanus dorii M		0	0	0	0	0	0	0	0
145	Sinocalanus dorii C		0	0	0	400	0	400	0	56
190	Epilabidocera longipedata F		1	0	0	0	0	0	0	0
195	copepod nauplius D		0	0	0	0	0	0	0	0
197	copepod nauplius B		0	0	0	0	800	0	0	0
198	copepod nauplius C		0	0	0	0	0	0	0	0
199	copepod nauplius		0	0	0	0	1600	100	0	0
200	Cyclopoida		0	0	0	0	200	200	0	0
210	Oithona spp.		900	400	0	0	0	0	0	0
213	Oithona spinirostris		0	0	0	0	0	0	0	0
220	Corycaeus sp.		0	0	0	0	0	0	0	0
250	Harpacticoida		450	200	0	200	600	0	0	0
251	Harpacticoid B (bronze)		0	0	0	0	0	100	0	111
270	Microsetella sp.		0	0	0	0	0	0	0	0
300	Amphipoda		0	0	0	0	0	0	0	0
321	Isopoda imm.		150	200	0	0	0	0	0	0
333	Neomysis mercedis juv.		0	0	0	0	0	300	667	0
376	Crangon sp.		0	0	0	0	0	1	0	0
401	barnacle nauplius		1050	6400	9400	1600	6800	0	0	0
441	Bosmina sp.		0	0	0	0	0	0	0	0

		Station	9			6		3	
		Depth	9.0	5.0	1.0	6.0	1.0	10.0	5.0	1.0
Code	Name		Number per cubic meter							
545	Ascidian larva		0	0	0	0	0	0	0	0
602	Tintinnopsis sp. A		15750	15400	3800	200	400	0	0	0
603	Tintinnopsis sp. B		28200	30000	36200	0	0	0	0	0
605	Eutintinnus neriticus		150	200	0	0	0	0	0	0
608	Parafavella sp.		0	0	0	0	0	0	0	0
630	coiled Foraminifera		0	0	0	0	0	0	0	0
681	flatworm sp. A		0	0	0	0	0	0	0	0
682	flatworm sp. B		150	0	0	0	0	0	0	0
701	Synchaeta sp.		0	0	0	0	400	0	0	0
750	Ectoprocta (Bryozoa)		150	0	0	0	0	0	0	0
790	Mollusca		0	0	0	0	200	0	0	0
801	Gastropod veliger		150	0	0	0	0	0	0	0
821	Bivalvia veliger		1050	4400	1200	0	2800	0	0	0
855	spionid larva		0	0	0	0	800	0	0	0
			mg Carbon per cubic meter							
			27	35	23	7	16	10	13	1

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
291080	80303	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1616	657	3.0	15.5	0.0	1.5	1.5	2	1	ship

Station 657
Depth 3.0

Code	Name	Number per cubic meter
5	Acartia clausi F	0
6	Acartia clausi M	0
7	Acartia clausi C	0
8	Acartia clausi N	0
10	Acartia californiensis F	0
11	Acartia californiensis M	0
12	Acartia californiensis C	0
13	Acartia californiensis N	0
27	Tortanus discaudatus F	0
29	Tortanus discaudatus C	0
60	Paracalanus parvus F	0
61	Paracalanus parvus M	0
62	Paracalanus parvus C	0
100	Eurytemora affinis F	0
101	Eurytemora affinis M	0
102	Eurytemora affinis C	0
103	Eurytemora affinis N	0
143	Sinocalanus dorii F	400
144	Sinocalanus dorii M	200
145	Sinocalanus dorii C	200
190	Epilabidocera longipedata F	0
195	copepod nauplius D	0
197	copepod nauplius B	0
198	copepod nauplius C	0
199	copepod nauplius	0
200	Cyclopoida	200
210	Oithona spp.	0
213	Oithona spinirostris	0
220	Corycaeus sp.	0
250	Harpacticoida	700
251	Harpacticoid B (bronze)	0
270	Microsetella sp.	0
300	Amphipoda	0
321	Isopoda imm.	0
333	Neomysis mercedis juv.	0
376	Crangon sp.	0
401	barnacle nauplius	0
441	Bosmina sp.	100
545	Ascidian larva	0
602	Tintinnopsis sp. A	0
603	Tintinnopsis sp. B	0
605	Eutintinnus neriticus	0
608	Parafavella sp.	0
630	coiled Foraminifera	0
681	flatworm sp. A	100

Station 657
Depth 3.0

Code	Name	Number per cubic meter
682	flatworm sp. B	0
701	Synchaeta sp.	0
750	Ectoprocta (Bryozoa)	0
790	Mollusca	0
801	Gastropod veliger	0
821	Bivalvia veliger	0
855	spionid larva	0

mg Carbon per cubic meter

7

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
291080	80303	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
659	302	1.5	15.6	24.6	1.0	1.1	0	-1	ship
722	306	1.5	15.8	25.9	1.2	1.7	1	-1	ship
800	312	1.5	15.4	21.3	5.5	3.1	1	-1	ship

		Station	302	306	312
		Depth	1.5	1.5	1.5
Code	Name		Number per cubic meter		
10	Acartia californiensis F		0	0	400
11	Acartia californiensis M		0	0	600
12	Acartia californiensis C		1333	2800	78400
13	Acartia californiensis N		6167	5400	3000
62	Paracalanus parvus C		0	0	0
100	Eurytemora affinis F		0	0	0
101	Eurytemora affinis M		0	0	0
102	Eurytemora affinis C		0	0	0
143	Sinocalanus dorii F		0	0	0
145	Sinocalanus dorii C		0	0	0
197	copepod nauplius B		0	0	0
199	copepod nauplius		333	0	0
201	Cyclopoid A (large-low sal)		0	0	0
210	Oithona spp.		0	200	200
220	Corycaeus sp.		0	0	0
250	Harpacticoida		0	200	0
270	Microsetella sp.		0	0	400
320	Isopoda		0	0	0
401	barnacle nauplius		1333	600	0
441	Bosmina sp.		0	0	0
603	Tintinnopsis sp. B		0	0	2000
703	Brachionus sp.		0	0	0
801	Gastropod veliger		0	0	200
821	Bivalvia veliger		0	0	600
851	polychaete trochophore		0	0	200
855	spionid larva		0	0	800
880	scaleworm larva		0	0	600
			mg Carbon per cubic meter		
			4	4	69

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
291080	80303	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
837	318	1.5	15.9	21.8	2.9	1.3	0	-1	ship
919	324	1.5	15.9	20.5	1.8	0.9	0	-1	ship
1007	334	1.5	15.9	22.5	0.8	0.8	2	-1	ship

		Station	318	324	334
		Depth	1.5	1.5	1.5
Code	Name		Number per cubic meter		
10	Acartia californiensis F		0	400	400
11	Acartia californiensis M		0	600	200
12	Acartia californiensis C		11200	12400	8800
13	Acartia californiensis N		21000	12400	8200
62	Paracalanus parvus C		400	0	600
100	Eurytemora affinis F		0	0	0
101	Eurytemora affinis M		0	0	0
102	Eurytemora affinis C		0	0	0
143	Sinocalanus dorii F		0	0	0
145	Sinocalanus dorii C		0	0	0
197	copepod nauplius B		0	0	0
199	copepod nauplius		0	0	200
201	Cyclopoid A (large-low sal)		0	0	0
210	Oithona spp.		0	0	800
220	Corycaeus sp.		0	0	200
250	Harpacticoida		0	0	200
270	Microsetella sp.		0	0	0
320	Isopoda		0	0	0
401	barnacle nauplius		800	200	200
441	Bosmina sp.		0	0	0
603	Tintinnopsis sp. B		6200	17000	200
703	Brachionus sp.		0	0	0
801	Gastropod veliger		0	0	200
821	Bivalvia veliger		0	800	0
851	polychaete trochophore		0	0	0
855	spionid larva		200	400	400
880	scaleworm larva		0	0	0
				mg Carbon per cubic meter	
			13	15	12

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
291080	80303	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1250	414	0.5	16.6	5.2	17.6	5.3	2	-1	ship
1319	418	0.5	17.0	5.1	14.8	3.5	1	-1	ship
1417	432	1.0	17.7	2.0	5.4	4.0	1	-1	ship

		Station	414	418	432
		Depth	0.5	0.5	1.0
Code	Name		Number per cubic meter		
10	Acartia californiensis F		0	0	0
11	Acartia californiensis M		0	0	0
12	Acartia californiensis C		0	0	0
13	Acartia californiensis N		0	0	0
62	Paracalanus parvus C		0	0	0
100	Eurytemora affinis F		0	200	200
101	Eurytemora affinis M		600	200	0
102	Eurytemora affinis C		2200	3000	700
143	Sinocalanus dorii F		0	0	0
145	Sinocalanus dorii C		0	200	100
197	copepod nauplius B		400	200	0
199	copepod nauplius		18000	10400	7000
201	Cyclopoid A (large-low sal)		0	200	0
210	Oithona spp.		0	0	0
220	Corycaeus sp.		0	0	0
250	Harpacticoida		200	400	1000
270	Microsetella sp.		0	0	0
320	Isopoda		0	0	0
401	barnacle nauplius		600	0	0
441	Bosmina sp.		0	0	0
603	Tintinnopsis sp. B		0	0	0
703	Brachionus sp.		200	0	0
801	Gastropod veliger		0	0	0
821	Bivalvia veliger		0	0	0
851	polychaete trochophore		0	0	0
855	spionid larva		0	0	0
880	scaleworm larva		0	0	0
			mg Carbon per cubic meter		
			7	7	4

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
291080	80303	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1710	757	8.0	15.9	0.0	6.1	7.5	1	1	ship
1716	757	2.0	15.9	0.0	6.1	2.5	1	1	ship

		Station	757	
		Depth	8.0	2.0
Code	Name			Number per cubic meter
10	Acartia californiensis F		0	0
11	Acartia californiensis M		0	0
12	Acartia californiensis C		0	0
13	Acartia californiensis N		0	0
62	Paracalanus parvus C		0	0
100	Eurytemora affinis F		0	0
101	Eurytemora affinis M		200	0
102	Eurytemora affinis C		400	0
143	Sinocalanus dorii F		200	300
145	Sinocalanus dorii C		600	100
197	copepod nauplius B		0	0
199	copepod nauplius		400	0
201	Cyclopoid A (large-low sal)		0	0
210	Oithona spp.		0	0
220	Corycaeus sp.		0	0
250	Harpacticoida		0	0
270	Microsetella sp.		0	0
320	Isopoda		0	300
401	barnacle nauplius		0	0
441	Bosmina sp.		200	0
603	Tintinnopsis sp. B		0	0
703	Brachionus sp.		200	0
801	Gastropod veliger		0	0
821	Bivalvia veliger		0	0
851	polychaete trochophore		0	0
855	spionid larva		0	0
880	scaleworm larva		0	0
				mg Carbon per cubic meter
			5	3

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
131180	80318	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
612	17	14.0	13.2	31.4	1.1	1.2	4	-1	ship
618	17	7.0	13.3	31.4	0.9	1.0	3	-1	ship
624	17	1.0	13.6	30.2	1.1	0.8	1	-1	ship
746	15	14.0	14.0	29.0	1.0	1.0	1	-1	ship
752	15	7.0	14.1	27.0	1.2	1.0	1	-1	ship
758	15	1.0	14.0	25.5	1.4	0.9	1	-1	ship
852	13	10.0	14.6	26.0	0.6	0.9	1	-1	ship
858	13	5.0	14.5	24.9	0.9	1.0	1	-1	ship
904	13	1.0	14.5	24.6	1.3	1.0	1	-1	ship

		Station		17			15			13	
		Depth	14.0	7.0	1.0	14.0	7.0	1.0	10.0	5.0	1.0
Code	Name		Number per cubic meter								
5	Acartia clausi F		800	200	200	200	200	400	1000	600	167
6	Acartia clausi M		200	0	0	200	0	0	200	0	0
7	Acartia clausi C		2800	800	1200	3800	2000	800	13400	2000	21667
8	Acartia clausi N		1800	200	600	0	200	200	4600	3800	19833
29	Tortanus discaudatus C		200	0	0	0	0	0	0	0	0
36	Calanus tenuicornis C		0	200	0	200	0	0	0	0	0
60	Paracalanus parvus F		0	200	0	200	200	0	200	0	0
61	Paracalanus parvus M		0	0	0	200	0	0	0	0	0
62	Paracalanus parvus C		200	800	200	2200	200	0	400	200	0
63	Paracalanus parvus N		0	0	200	0	0	0	0	0	0
100	Eurytemora affinis F		0	0	0	0	0	0	0	0	0
101	Eurytemora affinis M		0	0	0	0	0	0	0	0	0
102	Eurytemora affinis C		0	0	0	0	0	0	0	0	0
143	Sinocalanus dorii F		0	0	0	0	0	0	0	0	0
144	Sinocalanus dorii M		0	0	0	0	0	0	0	0	0
145	Sinocalanus dorii C		0	0	0	0	0	0	0	0	0
192	Epilabidocera longipedata C		0	0	0	0	0	0	0	0	167
194	copepodite (unknown)		0	0	0	0	0	0	200	0	0
197	copepod nauplius B		0	0	0	0	0	0	0	0	0
198	copepod nauplius C		0	0	0	0	0	0	0	200	333
199	copepod nauplius		0	3000	2000	2200	3400	1600	800	0	0
200	Cyclopoida		0	0	0	0	0	0	0	0	0
210	Oithona spp.		0	0	0	0	0	0	200	0	0
213	Oithona spinirostris		0	200	200	200	0	0	0	0	0
220	Corycaeus sp.		200	200	600	0	400	0	0	0	0
250	Harpacticoida		800	800	2200	600	1000	400	200	200	167
280	Harpacticoid sp.A		0	200	0	200	0	0	200	400	0
321	Isopoda imm.		0	0	0	0	0	0	0	0	0
401	barnacle nauplius		0	0	0	0	200	0	0	1200	500
402	barnacle cypris		200	0	0	0	0	1000	0	0	0
540	Larvacea		0	0	200	0	0	0	0	0	0
559	other fish egg		0	200	0	0	0	0	0	0	0
602	Tintinnopsis sp. A		0	0	0	0	0	0	0	0	333
603	Tintinnopsis sp. B		0	0	0	200	0	0	0	0	0
682	flatworm sp. B		200	0	0	0	0	0	0	0	0
701	Synchaeta sp.		0	400	0	0	0	0	0	0	0
748	Phoronida larva		200	0	200	0	0	0	0	0	0

	Station		17			15			13	
	Depth	14.0	7.0	1.0	14.0	7.0	1.0	10.0	5.0	1.0
Code	Name	Number per cubic meter								
750	Ectoprocta (Bryozoa)	0	0	200	0	0	0	0	0	0
801	Gastropod veliger	200	200	0	0	200	0	0	0	333
821	Bivalvia veliger	200	200	400	0	400	200	200	0	0
851	Polychaete trochophore	0	200	0	0	0	0	0	0	0
855	Spionid larva	0	0	200	200	400	1000	200	0	0
		mg Carbon per cubic meter								
		8	6	6	9	6	7	17	6	23

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
131180	80318	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1036	9	14.0	15.0	19.3	1.1	1.6	0	-1	ship
1042	9	7.0	15.0	17.6	1.2	1.6	1	-1	ship
1048	9	1.0	15.0	15.4	2.1	1.4	1	-1	ship
1225	6	6.0	15.0	9.3	6.6	2.8	1	-1	ship
1231	6	1.0	15.0	6.6	6.4	2.4	1	-1	ship
1403	3	6.0	15.7	1.8	2.2	3.5	1	1	ship
1409	3	1.0	15.8	1.4	1.9	3.2	2	1	ship

		Station	9			6		3	
		Depth	14.0	7.0	1.0	6.0	1.0	6.0	1.0
Code	Name					Number per cubic meter			
5	Acartia clausi F		600	1200	1600	0	0	0	0
6	Acartia clausi M		1200	1600	1000	0	0	0	0
7	Acartia clausi C		4400	3800	18600	0	0	0	0
8	Acartia clausi N		0	2200	1400	0	0	0	0
29	Tortanus discaudatus C		0	0	0	0	0	0	0
36	Calanus tenuicornis C		0	0	0	0	0	0	0
60	Paracalanus parvus F		0	0	0	0	0	0	0
61	Paracalanus parvus M		0	200	0	0	0	0	0
62	Paracalanus parvus C		0	600	0	0	0	0	0
63	Paracalanus parvus N		0	0	0	0	0	0	0
100	Eurytemora affinis F		0	0	0	800	0	233	0
101	Eurytemora affinis M		0	0	0	1867	0	1400	0
102	Eurytemora affinis C		0	0	0	4533	0	1400	1833
143	Sinocalanus dorii F		0	0	0	0	0	0	0
144	Sinocalanus dorii M		0	0	0	0	0	0	167
145	Sinocalanus dorii C		0	0	0	0	0	700	0
192	Epilabidocera longipedata C		0	0	0	0	0	0	0
194	copepodite (unknown)		0	0	0	0	0	0	0
197	copepod nauplius B		0	0	0	1067	267	0	333
198	copepod nauplius C		0	0	0	0	0	0	0
199	copepod nauplius		0	0	0	2400	12000	0	2833
200	Cyclopoida		0	0	0	267	1067	700	833
210	Oithona spp.		600	200	0	0	0	0	0
213	Oithona spinirostris		0	0	0	0	0	0	0
220	Corycaeus sp.		0	0	0	0	0	0	0
250	Harpacticoida		400	0	0	0	0	0	0
280	Harpacticoid sp.A		0	0	0	0	0	0	0
321	Isopoda imm.		0	200	0	267	0	0	0
401	barnacle nauplius		800	600	15000	0	6400	0	0
402	barnacle cypris		0	0	0	0	0	0	0
540	Larvacea		0	0	0	0	0	0	0
559	other fish egg		0	0	0	0	0	0	0
602	Tintinnopsis sp. A		3200	3000	1000	0	0	0	0
603	Tintinnopsis sp. B		78000	56000	129400	0	0	0	0
682	flatworm sp. B		200	200	0	0	0	0	0
701	Synchaeta sp.		200	0	0	0	533	0	0
748	Phoronida larva		0	0	0	0	0	0	0
750	Ectoprocta (Bryozoa)		0	0	0	0	0	0	0
801	Gastropod veliger		200	200	0	0	0	0	0

	Station		9			6		3
	Depth	14.0	7.0	1.0	6.0	1.0	6.0	1.0
Code	Name				Number per cubic meter			
821	Bivalvia veliger	1600	1400	800	0	267	0	0
851	polychaete trochophore	0	0	0	0	0	0	0
855	spionid larva	400	0	0	0	0	0	0
					mg Carbon per cubic meter			
		11	12	45	13	14	10	6

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
131180	80318	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1540	657	2.0	14.2	0.0	0.8	1.2	3	1	ship

Station 657
Depth 2.0

Code	Name	Number per cubic meter
5	Acartia clausi F	0
6	Acartia clausi M	0
7	Acartia clausi C	0
8	Acartia clausi N	0
29	Tortanus discaudatus C	0
36	Calanus tenuicornis C	0
60	Paracalanus parvus F	0
61	Paracalanus parvus M	0
62	Paracalanus parvus C	0
63	Paracalanus parvus N	0
100	Eurytemora affinis F	0
101	Eurytemora affinis M	0
102	Eurytemora affinis C	0
143	Sinocalanus dorii F	89
144	Sinocalanus dorii M	0
145	Sinocalanus dorii C	44
192	Epilabidocera longipedata C	0
194	copepodite (unknown)	0
197	copepod nauplius B	0
198	copepod nauplius C	0
199	copepod nauplius	89
200	Cyclopoida	1200
210	Oithona spp.	0
213	Oithona spinirostris	0
220	Corycaeus sp.	0
250	Harpacticoida	0
280	Harpacticoid sp.A	0
321	Isopoda imm.	0
401	barnacle nauplius	0
402	barnacle cypris	0
540	Larvacea	0
559	other fish egg	0
602	Tintinnopsis sp. A	0
603	Tintinnopsis sp. B	0
682	flatworm sp. B	0
701	Synchaeta sp.	0
748	Phoronida larva	0
750	Ectoprocta (Bryozoa)	0
801	Gastropod veliger	0
821	Bivalvia veliger	0
851	polychaete trochophore	0
855	spionid larva	0

	mg Carbon per cubic meter
	4

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
131180	80318	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
730	302	1.5	14.7	23.7	0.8	1.0	1	-1	ship
748	306	3.0	14.6	25.1	0.8	1.0	1	-1	ship
819	312	1.0	13.3	21.9	3.0	1.5	1	-1	ship

		Station	302	306	312
		Depth	1.5	3.0	1.0
Code	Name		Number per cubic meter		
10	Acartia californiensis F		400	600	1600
11	Acartia californiensis M		0	0	200
12	Acartia californiensis C		12200	15000	35800
13	Acartia californiensis N		21400	18000	30200
62	Paracalanus parvus C		0	400	0
100	Eurytemora affinis F		0	0	0
101	Eurytemora affinis M		0	0	0
102	Eurytemora affinis C		0	0	0
143	Sinocalanus dorii F		0	0	0
144	Sinocalanus dorii M		0	0	0
145	Sinocalanus dorii C		0	0	0
195	copepod nauplius D		0	0	0
197	copepod nauplius B		0	0	0
198	copepod nauplius C		400	0	900
199	copepod nauplius		200	0	0
200	Cyclopoida		0	0	0
201	Cyclopoid A (large-low sal)		0	0	0
210	Oithona spp.		400	1400	2400
220	Corycaeus sp.		200	0	200
250	Harpacticoida		200	0	0
280	Harpacticoid sp.A		200	0	400
281	Harpacticoid A N		0	400	200
321	Isopoda imm.		0	200	0
401	barnacle nauplius		0	400	800
441	Bosmina sp.		0	0	0
603	Tintinnopsis sp. B		200	0	136400
681	flatworm sp. A		200	0	0
682	flatworm sp. B		0	0	0
701	Synchaeta sp.		0	0	200
801	Gastropod veliger		0	200	400
821	Bivalvia veliger		0	0	600
851	polychaete trochophore		0	0	0
855	spionid larva		600	200	400
				mg Carbon per cubic meter	
			16	18	42

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
131180	80318	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
826	318	1.0	14.0	21.5	4.1	1.4	1	-1	ship
926	324	1.0	14.1	21.4	1.6	1.0	1	-1	ship
1012	334	1.0	14.5	21.8	0.6	1.2	1	-1	ship

	Station	318	324	334
	Depth	1.0	1.0	1.0
Code	Name		Number per cubic meter	
10	Acartia californiensis F	0	0	267
11	Acartia californiensis M	0	0	0
12	Acartia californiensis C	6667	4667	1333
13	Acartia californiensis N	38000	16667	2667
62	Paracalanus parvus C	0	0	0
100	Eurytemora affinis F	0	0	0
101	Eurytemora affinis M	0	0	0
102	Eurytemora affinis C	333	0	0
143	Sinocalanus dorii F	0	0	0
144	Sinocalanus dorii M	0	0	0
145	Sinocalanus dorii C	0	0	0
195	copepod nauplius D	333	0	0
197	copepod nauplius B	667	0	0
198	copepod nauplius C	0	0	0
199	copepod nauplius	0	0	0
200	Cyclopoida	333	0	0
201	Cyclopoid A (large-low sal)	0	0	0
210	Oithona spp.	333	0	0
220	Corycaeus sp.	0	333	267
250	Harpacticoida	333	333	267
280	Harpacticoid sp.A	0	0	0
281	Harpacticoid A N	0	0	0
321	Isopoda imm.	0	0	0
401	barnacle nauplius	0	2000	1867
441	Bosmina sp.	0	0	0
603	Tintinnopsis sp. B	127000	3667	800
681	flatworm sp. A	0	0	0
682	flatworm sp. B	0	0	0
701	Synchaeta sp.	0	0	0
801	Gastropod veliger	0	0	0
821	Bivalvia veliger	1000	1000	0
851	polychaete trochophore	0	0	0
855	spionid larva	0	333	0
			mg Carbon per cubic meter	
		13	10	6

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
131180	80318	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1229	414	1.0	15.2	5.7	18.9	5.0	1	-1	ship
1254	418	1.0	15.8	4.7	6.2	3.6	0	-1	ship
1352	432	1.0	15.7	2.5	4.4	7.0	1	-1	ship

		Station	414	418	432
		Depth	1.0	1.0	1.0
Code	Name		Number per cubic meter		
10	Acartia californiensis F		0	0	0
11	Acartia californiensis M		0	0	0
12	Acartia californiensis C		1067	0	0
13	Acartia californiensis N		533	0	0
62	Paracalanus parvus C		0	0	0
100	Eurytemora affinis F		267	0	0
101	Eurytemora affinis M		267	267	200
102	Eurytemora affinis C		1867	4267	1000
143	Sinocalanus dorii F		0	0	0
144	Sinocalanus dorii M		0	0	0
145	Sinocalanus dorii C		0	0	0
195	copepod nauplius D		0	0	0
197	copepod nauplius B		1333	0	0
198	copepod nauplius C		0	0	0
199	copepod nauplius		2667	68000	4600
200	Cyclopoida		1333	267	0
201	Cyclopoid A (large-low sal)		267	800	400
210	Oithona spp.		0	0	0
220	Corycaeus sp.		0	0	0
250	Harpacticoida		267	0	0
280	Harpacticoid sp.A		0	0	0
281	Harpacticoid A N		0	0	0
321	Isopoda imm.		0	0	0
401	barnacle nauplius		800	0	1000
441	Bosmina sp.		0	0	0
603	Tintinnopsis sp. B		0	0	0
681	flatworm sp. A		0	0	0
682	flatworm sp. B		0	0	200
701	Synchaeta sp.		0	0	0
801	Gastropod veliger		0	0	0
821	Bivalvia veliger		0	0	0
851	polychaete trochophore		267	0	0
855	spionid larva		267	0	0
				mg Carbon per cubic meter	
			12	16	5

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
131180	80318	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1644	751	8.0	15.0	0.1	6.6	1.9	1	1	ship
1650	751	2.0	15.0	0.1	6.6	1.9	1	1	ship

		Station	751	
		Depth	8.0	2.0
Code	Name			Number per cubic meter
10	Acartia californiensis F		0	0
11	Acartia californiensis M		0	0
12	Acartia californiensis C		0	0
13	Acartia californiensis N		0	0
62	Paracalanus parvus C		0	0
100	Eurytemora affinis F		0	0
101	Eurytemora affinis M		44	0
102	Eurytemora affinis C		0	0
143	Sinocalanus dorii F		133	0
144	Sinocalanus dorii M		44	67
145	Sinocalanus dorii C		178	67
195	copepod nauplius D		0	0
197	copepod nauplius B		0	0
198	copepod nauplius C		0	0
199	copepod nauplius		0	0
200	Cyclopoida		444	2600
201	Cyclopoid A (large-low sal)		89	0
210	Oithona spp.		0	0
220	Corycaeus sp.		0	0
250	Harpacticoida		0	0
280	Harpacticoid sp.A		0	0
281	Harpacticoid A N		0	0
321	Isopoda imm.		0	0
401	barnacle nauplius		0	0
441	Bosmina sp.		0	67
603	Tintinnopsis sp. B		0	0
681	flatworm sp. A		0	0
682	flatworm sp. B		0	0
701	Synchaeta sp.		0	0
801	Gastropod veliger		0	0
821	Bivalvia veliger		0	0
851	polychaete trochophore		0	0
855	spionid larva		0	0
				ug Carbon per cubic meter
			4	9

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
171280	80352	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
640	17	14.0	99.9	30.7	1.5	1.1	3	0	ship
646	17	7.0	99.9	30.4	1.5	1.4	3	0	ship
652	17	1.0	99.9	28.0	1.4	0.8	2	0	ship
812	15	12.0	10.6	28.2	1.1	1.3	3	1	ship
818	15	6.0	10.6	28.0	1.1	1.4	3	1	ship
824	15	1.0	10.3	26.3	1.1	1.2	2	1	ship
919	13	11.0	10.4	25.7	1.1	1.6	5	1	ship
925	13	6.0	10.4	25.7	1.1	1.6	5	1	ship
931	13	1.0	10.4	24.4	1.3	1.1	1	1	ship

		Station	17			15			13	
		Depth	14.0	7.0	1.0	12.0	6.0	1.0	11.0	6.0	1.0
Code	Name		Number per cubic meter								
5	Acartia clausi F		333	800	667	700	200	50	150	450	100
6	Acartia clausi M		167	0	0	0	0	50	0	0	0
7	Acartia clausi C		1000	133	267	800	500	150	600	1500	1550
8	Acartia clausi N		167	133	0	300	0	250	0	300	16550
17	Acartia tonsa F		0	0	133	0	0	0	0	0	0
29	Tortanus discaudatus C		0	0	0	0	0	50	0	0	0
30	Calanus pacificus F		0	0	0	0	0	0	50	0	0
36	Calanus tenuicornis C		0	0	0	100	0	0	0	0	0
60	Paracalanus parvus F		333	267	0	100	0	0	100	100	0
61	Paracalanus parvus M		0	133	0	0	0	0	0	0	0
62	Paracalanus parvus C		167	667	267	300	600	150	100	150	50
100	Eurytemora affinis F		0	0	0	0	0	0	0	0	0
101	Eurytemora affinis M		0	0	0	0	0	0	0	0	0
102	Eurytemora affinis C		0	0	0	0	0	0	0	0	0
143	Sinocalanus dorii F		0	0	0	0	0	0	0	0	0
192	Epilabidocera longipedata C		0	0	0	0	0	0	0	0	0
194	copepodite (unknown)		0	0	133	0	200	0	100	100	0
195	copepod nauplius D		0	0	267	0	0	0	0	0	0
196	copepod nauplius A		333	0	267	0	0	100	0	0	0
199	copepod nauplius		500	0	3733	0	0	0	50	100	0
200	Cyclopoida		0	0	0	0	0	0	0	0	0
201	Cyclopoid A (large-low sal)		0	0	0	0	0	0	0	0	0
210	Oithona spp.		0	0	133	200	100	50	0	50	0
213	Oithona spinirostris		0	0	133	0	0	0	0	0	0
220	Corycaeus sp.		0	133	133	0	0	0	0	0	0
250	Harpacticoida		1333	933	1067	500	700	300	100	350	200
251	Harpacticoid B (bronze)		0	0	0	0	0	0	0	0	0
280	Harpacticoid sp.A		167	0	0	0	0	0	0	0	0
321	Isopoda imm.		0	0	0	0	100	0	0	0	0
370	Natantia zoea		0	0	0	0	100	0	0	0	0
401	barnacle nauplius		0	0	0	0	0	150	0	0	0
440	Cladocera		0	0	0	0	0	0	0	0	0
441	Bosmina sp.		0	0	0	0	0	0	0	0	0
444	Daphnia sp.		0	0	0	0	0	0	0	0	0
445	Daphnia pulex		0	0	0	0	0	0	0	0	0
541	Dikopleuridae		0	0	0	0	0	0	0	50	0
560	fish larva		0	0	0	0	0	0	0	0	0

	Station		17			15			13	
	Depth	14.0	7.0	1.0	12.0	6.0	1.0	11.0	6.0	1.0
Code	Name	Number per cubic meter								
602	Tintinnopsis sp. A	0	0	0	0	0	0	0	0	0
603	Tintinnopsis sp. B	0	0	0	0	0	0	0	0	0
608	Parafavella sp.	0	0	133	0	0	0	0	0	0
682	flatworm sp. B	0	0	0	0	0	0	0	0	0
801	Gastropod veliger	0	0	0	100	0	0	0	0	0
821	Bivalvia veliger	0	0	267	300	100	150	0	50	0
855	spionid larva	0	0	267	0	0	50	0	50	100
880	scaleworm larva	0	0	133	0	0	0	0	0	0
		mg Carbon per cubic meter								
		5	5	6	4	3	1	5	4	4

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
171280	80352	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1045	9	14.0	10.1	21.7	1.4	2.6	5	1	ship
1051	9	7.0	10.1	21.4	1.3	2.4	4	1	ship
1057	9	1.0	10.0	19.8	1.4	1.9	2	1	ship
1230	6	3.0	9.7	13.2	2.3	2.4	1	-1	ship
1236	6	1.0	9.8	11.6	1.5	2.3	0	-1	ship
1359	3	9.0	9.4	2.6	2.3	4.1	5	-1	ship
1405	3	5.0	9.4	2.6	2.3	4.1	2	-1	ship
1411	3	1.0	9.5	2.2	2.4	3.5	1	-1	ship

		Station	9			6		3	
		Depth	14.0	7.0	1.0	3.0	1.0	9.0	5.0	1.0
Code	Name					Number per cubic meter				
5	Acartia clausi F		167	1067	400	2800	400	0	0	0
6	Acartia clausi M		167	400	0	533	0	0	0	0
7	Acartia clausi C		2000	4933	16267	1067	267	0	0	0
8	Acartia clausi N		667	933	60667	0	1867	0	0	0
17	Acartia tonsa F		0	0	0	0	0	0	0	0
29	Tortanus discaudatus C		0	0	0	0	0	0	0	0
30	Calanus pacificus F		0	0	0	0	0	0	0	0
36	Calanus tenuicornis C		0	0	0	0	0	0	0	0
60	Paracalanus parvus F		0	266	0	0	0	0	0	0
61	Paracalanus parvus M		0	0	0	0	0	0	0	0
62	Paracalanus parvus C		0	0	0	0	0	0	0	0
100	Eurytemora affinis F		0	0	0	133	0	667	533	0
101	Eurytemora affinis M		0	0	0	267	0	2133	1333	267
102	Eurytemora affinis C		0	0	0	0	0	1867	5333	133
143	Sinocalanus dorii F		0	0	0	0	0	0	0	0
192	Epilabidocera longipedata C		0	133	0	0	0	0	0	0
194	copepodite (unknown)		0	0	0	0	0	0	0	0
195	copepod nauplius D		0	0	0	0	0	0	0	0
196	copepod nauplius A		0	0	0	0	0	0	0	0
199	copepod nauplius		0	0	0	1467	1467	2933	11467	26000
200	Cyclopoida		0	0	0	0	133	0	0	0
201	Cyclopoid A (large-low sal)		0	0	0	0	0	0	0	133
210	Oithona spp.		667	133	133	0	0	0	0	0
213	Oithona spinirostris		0	0	0	0	0	0	0	0
220	Corycaeus sp.		0	0	0	0	0	0	0	0
250	Harpacticoida		167	267	0	400	267	0	133	0
251	Harpacticoid B (bronze)		0	0	0	0	0	1067	0	0
280	Harpacticoid sp.A		0	0	0	0	0	0	0	0
321	Isopoda imm.		0	0	0	0	0	0	0	0
370	Natantia zoea		0	0	0	0	0	0	0	0
401	barnacle nauplius		167	0	267	400	533	0	0	0
440	Cladocera		0	133	0	0	0	0	0	0
441	Bosmina sp.		0	0	0	0	0	0	0	0
444	Daphnia sp.		0	0	0	0	0	0	0	0
445	Daphnia pulex		0	0	0	0	0	0	0	133
541	Oikopleuridae		0	0	0	0	0	0	0	0
560	fish larva		0	0	0	0	0	0	0	1
602	Tintinnopsis sp. A		0	0	0	400	400	0	0	0

		Station		9			6			3	
		Depth	14.0	7.0	1.0	3.0	1.0	9.0	5.0	1.0
Code	Name					Number per cubic meter				
603	Tintinnopsis sp. B		0	0	0	7067	56000	0	0	0
608	Parafavella sp.		0	0	0	0	0	0	0	0
682	flatworm sp. B		0	0	133	0	0	0	0	0
801	Gastropod veliger		0	400	133	0	0	0	0	0
821	Bivalvia veliger		0	0	133	0	0	0	0	0
855	spionid larva		0	0	0	0	0	0	0	0
880	scaleworm larva		0	0	0	0	0	0	0	0
						mg Carbon per cubic meter				
			3	10	21	12	4	11	12	4

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
171280	80352	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1553	657	5.0	8.0	0.1	0.6	2.1	4	-1	ship
1559	657	1.0	8.0	0.1	0.6	2.1	1	-1	ship

		Station	657	
		Depth	5.0	1.0
Code	Name		Number per cubic meter	
5	Acartia clausi F		0	0
6	Acartia clausi M		0	0
7	Acartia clausi C		0	0
8	Acartia clausi N		0	0
17	Acartia tonsa F		0	0
29	Tortanus discaudatus C		0	0
30	Calanus pacificus F		0	0
36	Calanus tenuicornis C		0	0
60	Paracalanus parvus F		0	0
61	Paracalanus parvus M		0	0
62	Paracalanus parvus C		0	0
100	Eurytemora affinis F		0	0
101	Eurytemora affinis M		0	0
102	Eurytemora affinis C		0	0
143	Sinocalanus dorii F		433	0
192	Epilabidocera longipedata C		0	0
194	copepodite (unknown)		0	0
195	copepod nauplius D		0	0
196	copepod nauplius A		0	0
199	copepod nauplius		533	0
200	Cyclopoida		400	67
201	Cyclopoid A (large-low sal)		800	0
210	Oithona spp.		133	0
213	Oithona spinirostris		0	0
220	Corycaeus sp.		0	0
250	Harpacticoida		0	133
251	Harpacticoid B (bronze)		0	0
280	Harpacticoid sp.A		0	0
321	Isopoda imm.		0	0
370	Natantia zoea		0	0
401	barnacle nauplius		0	0
440	Cladocera		0	0
441	Bosmina sp.		0	67
444	Daphnia sp.		0	67
445	Daphnia pulex		267	333
541	Oikopleuridae		0	0
560	fish larva		0	0
602	Tintinnopsis sp. A		0	0
603	Tintinnopsis sp. B		0	0
608	Parafavella sp.		0	0
682	flatworm sp. B		0	0
801	Gastropod veliger		0	0
821	Bivalvia veliger		0	0
855	spionid larva		0	0

		Station	657	
		Depth	5.0	1.0
Code	Name			Number per cubic meter
880	scaleworm larva		0	0
				mg Carbon per cubic meter
			8	1

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
171280	80352	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
707	302	1.5	11.6	22.1	1.0	1.7	3	1	ship
732	306	4.0	11.4	24.9	1.0	2.0	3	1	ship
805	312	1.5	11.3	20.0	1.4	2.6	2	1	ship

		Station	302	306	312
		Depth	1.5	4.0	1.5
Code	Name		Number per cubic meter		
5	Acartia clausi F		100	900	1700
6	Acartia clausi M		0	100	300
7	Acartia clausi C		4900	2700	15500
8	Acartia clausi N		8400	200	20000
35	Calanus tenuicornis M		0	0	100
36	Calanus tenuicornis C		0	0	100
60	Paracalanus parvus F		200	100	100
62	Paracalanus parvus C		400	100	0
100	Eurytemora affinis F		0	0	0
101	Eurytemora affinis M		0	0	0
102	Eurytemora affinis C		0	0	0
143	Sinocalanus dorii F		0	0	0
192	Epilabidocera longipedata C		0	0	0
199	copepod nauplius		0	0	0
200	Cyclopoida		0	0	0
201	Cyclopoid A (large-low sal)		0	0	0
210	Oithona spp.		200	400	0
213	Oithona spinirostris		0	0	100
250	Harpacticoida		0	100	100
270	Microsetella sp.		0	0	100
401	barnacle nauplius		100	0	0
441	Bosmina sp.		0	0	0
801	Gastropod veliger		0	0	200
821	Bivalvia veliger		200	0	0
				mg Carbon per cubic meter	
			6	5	21

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
171280	80352	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
835	318	1.5	10.7	18.8	1.4	2.1	0	1	ship
903	324	1.5	10.1	18.8	3.4	2.2	2	1	ship
947	334	1.5	11.7	21.3	0.4	2.0	1	1	ship

		Station	318	324	334
		Depth	1.5	1.5	1.5
Code	Name			Number per cubic meter	
5	Acartia clausi F		2166	4800	400
6	Acartia clausi M		2333	2200	200
7	Acartia clausi C		18167	37600	8600
8	Acartia clausi N		1000	9000	3600
35	Calanus tenuicornis M		0	0	0
36	Calanus tenuicornis C		0	0	200
60	Paracalanus parvus F		0	0	0
62	Paracalanus parvus C		0	0	200
100	Eurytemora affinis F		0	0	0
101	Eurytemora affinis M		0	0	0
102	Eurytemora affinis C		0	0	0
143	Sinocalanus dorii F		0	0	0
192	Epilabidocera longipedata C		0	0	0
199	copepod nauplius		0	0	0
200	Cyclopoida		0	0	0
201	Cyclopoid A (large-low sal)		0	0	0
210	Oithona spp.		1667	0	200
213	Oithona spinirostris		0	0	0
250	Harpacticoida		0	0	0
270	Microsetella sp.		0	0	0
401	barnacle nauplius		0	0	0
441	Bosmina sp.		0	0	0
801	Gastropod veliger		0	0	0
821	Bivalvia veliger		0	0	0
				mg Carbon per cubic meter	
			25	47	10

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
171280	80352	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1213	414	1.0	12.2	5.1	5.0	3.0	1	-1	ship
1239	418	1.0	10.8	3.3	11.2	2.3	0	-1	ship
1336	432	1.0	11.7	1.3	1.8	3.9	1	-1	ship

Code	Name	Station	414	418	432
		Depth	1.0	1.0	1.0
			Number per cubic meter		
5	Acartia clausi F		0	0	0
6	Acartia clausi M		0	0	0
7	Acartia clausi C		533	0	0
8	Acartia clausi N		133	0	0
35	Calanus tenuicornis M		0	0	0
36	Calanus tenuicornis C		0	0	0
60	Paracalanus parvus F		0	0	0
62	Paracalanus parvus C		0	0	0
100	Eurytemora affinis F		133	0	133
101	Eurytemora affinis M		533	0	0
102	Eurytemora affinis C		3600	2400	267
143	Sinocalanus dorii F		0	0	0
192	Epilabidocera longipedata C		0	0	133
199	copepod nauplius		15600	5600	10000
200	Cyclopoida		0	0	133
201	Cyclopoid A (large-low sal)		0	0	0
210	Oithona spp.		133	0	133
213	Oithona spinirostris		0	0	0
250	Harpacticoida		0	133	0
270	Microsetella sp.		0	0	0
401	barnacle nauplius		0	133	0
441	Bosmina sp.		0	0	0
801	Gastropod veliger		0	0	0
821	Bivalvia veliger		0	0	0
			mg Carbon per cubic meter		
			7	3	4

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
171280	80352	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1728	757	7.0	2.8	0.1	0.5	2.8	5	-1	ship
1734	757	3.0	2.7	0.1	0.5	2.7	3	-1	ship

		Station	757	
		Depth	7.0	3.0
Code	Name			Number per cubic meter
5	Acartia clausi F		0	0
6	Acartia clausi M		0	0
7	Acartia clausi C		0	0
8	Acartia clausi N		0	0
35	Calanus tenuicornis M		0	0
36	Calanus tenuicornis C		0	0
60	Paracalanus parvus F		0	0
62	Paracalanus parvus C		0	0
100	Eurytemora affinis F		0	0
101	Eurytemora affinis M		0	0
102	Eurytemora affinis C		0	0
143	Sinocalanus dorii F		67	33
192	Epilabidocera longipedata C		0	0
199	copepod nauplius		0	0
200	Cyclopoida		0	0
201	Cyclopoid A (large-low sal)		0	33
210	Oithona spp.		0	0
213	Oithona spinirostris		0	0
250	Harpacticoida		0	33
270	Microsetella sp.		0	0
401	barnacle nauplius		0	0
441	Bosmina sp.		67	33
801	Gastropod veliger		0	0
821	Bivalvia veliger		0	0
				mg Carbon per cubic meter
			1	0

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
100281	81041	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
646	17	10.0	12.4	28.2	1.1	1.4	1	-1	ship
652	17	5.0	12.4	28.4	1.1	1.4	1	-1	ship
658	17	1.0	12.4	28.4	1.1	1.4	1	-1	ship
818	15	7.0	11.9	21.5	1.1	1.9	0	-1	ship
824	15	5.0	11.8	21.3	1.2	1.9	1	-1	ship
830	15	1.0	11.6	18.8	1.2	2.1	0	-1	ship
933	13	9.0	12.0	21.8	1.0	2.1	3	-1	ship
939	13	5.0	12.0	21.6	1.2	2.0	3	-1	ship
945	13	1.0	11.8	18.6	1.2	1.3	1	-1	ship

		Station		17			15			13	
		Depth	10.0	5.0	1.0	7.0	5.0	1.0	9.0	5.0	1.0
Code	Name					Number per cubic meter					
5	Acartia clausi F		152	267	0	1000	267	133	1000	1000	833
6	Acartia clausi M		0	133	0	0	133	0	167	0	0
7	Acartia clausi C		0	533	267	2167	2667	1000	4833	4167	6667
8	Acartia clausi N		0	133	0	0	0	133	833	167	3500
36	Calanus tenuicornis C		0	0	133	0	0	0	0	0	0
60	Paracalanus parvus F		0	267	0	0	0	67	0	333	333
62	Paracalanus parvus C		1212	533	400	0	133	133	1500	500	500
100	Eurytemora affinis F		0	0	0	0	0	0	0	0	0
101	Eurytemora affinis M		0	0	0	0	0	0	0	0	0
102	Eurytemora affinis C		0	0	0	0	0	0	0	0	0
145	Sinocalanus dorii C		0	0	0	0	0	0	0	0	0
194	copepodite (unknown)		0	0	0	0	0	133	0	0	0
195	copepod nauplius D		152	0	133	0	0	0	0	0	0
196	copepod nauplius A		0	0	0	167	0	0	0	0	0
197	copepod nauplius B		0	0	0	0	0	0	0	0	0
198	copepod nauplius C		0	0	0	0	0	0	0	0	0
199	copepod nauplius		1060	533	1067	2500	1067	2400	0	500	0
200	Cyclopoida		0	0	267	0	0	0	0	0	0
201	Cyclopoid A (large-low sal)		0	0	0	0	0	0	0	0	0
210	Oithona spp.		152	0	0	0	0	0	667	333	0
220	Corycaeus sp.		152	267	0	333	0	0	0	0	0
250	Harpacticoida		606	667	533	1500	400	333	0	0	833
251	Harpacticoid B (bronze)		0	0	0	0	0	0	0	0	0
300	Amphipoda		152	0	0	0	0	0	0	0	0
320	Isopoda		152	0	0	0	0	0	0	0	0
321	Isopoda imm.		0	0	0	167	0	0	0	0	0
370	Natantia zoea		152	0	0	0	0	0	0	0	0
401	barnacle nauplius		152	267	0	333	533	0	0	167	0
420	Ostracoda		0	0	0	0	0	0	0	0	0
440	Cladocera		0	0	0	0	0	0	0	0	0
441	Bosmina sp.		0	0	0	0	0	0	0	0	0
601	tintinnid spp.		0	0	0	0	0	0	0	0	0
602	Tintinnopsis sp. A		0	0	0	0	0	0	0	167	0
603	Tintinnopsis sp. B		0	0	0	0	0	0	0	333	0
605	Eutintinnus neriticus		454	667	933	10833	6800	1800	1833	3333	11667
701	Synchaeta sp.		0	0	0	0	0	0	0	0	0
705	Keratella sp.		0	0	0	0	0	0	0	0	0

	Station		17			15			13	
	Depth	10.0	5.0	1.0	7.0	5.0	1.0	9.0	5.0	1.0
Code	Name				Number per cubic meter					
740	Nematoda	0	0	0	0	0	0	0	0	0
751	Ectoprocta larva	0	267	133	333	133	133	0	0	0
770	Sipunculoidea	0	0	0	0	0	0	0	0	0
801	Gastropod veliger	0	0	0	167	133	0	167	0	333
821	Bivalvia veliger	258	267	533	167	133	133	167	1167	1167
855	spionid larva	303	133	133	500	133	0	0	0	0
880	scaleworm larva	0	0	0	0	0	67	0	0	0
					mg Carbon per cubic meter					
		3	4	3	9	5	3	8	8	11

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
100281	81041	North S.F.Bay	Polaris	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a ug/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1157	9	10.0	11.0	7.9	1.8	5.4	4	-1	ship
1203	9	5.0	11.0	7.7	1.8	4.7	4	-1	ship
1209	9	1.0	10.9	6.7	1.8	3.9	3	-1	ship
1404	6	6.0	10.8	0.3	1.4	8.1	5	-1	ship
1410	6	1.0	10.9	0.3	1.5	8.0	3	-1	ship
1518	3	5.0	10.9	0.2	1.0	6.0	3	-1	ship
1524	3	1.0	11.0	0.2	1.0	6.0	2	-1	ship

		Station	9			6		3	
		Depth	10.0	5.0	1.0	6.0	1.0	5.0	1.0
Code	Name					Number per cubic meter			
5	Acartia clausi F		600	200	0	0	0	0	0
6	Acartia clausi M		0	0	0	0	0	0	0
7	Acartia clausi C		67	133	0	0	0	0	0
8	Acartia clausi N		0	0	0	0	0	0	0
36	Calanus tenuicornis C		0	0	0	0	0	0	0
60	Paracalanus parvus F		0	0	0	0	0	0	0
62	Paracalanus parvus C		0	0	0	0	0	0	0
100	Eurytemora affinis F		133	200	267	0	0	0	0
101	Eurytemora affinis M		267	267	200	533	0	0	67
102	Eurytemora affinis C		533	867	533	4000	848	0	67
145	Sinocalanus dorii C		0	0	0	0	121	0	0
194	copepodite (unknown)		0	0	0	0	0	0	0
195	copepod nauplius D		0	0	0	0	0	0	0
196	copepod nauplius A		0	0	0	0	0	0	0
197	copepod nauplius B		67	0	533	400	0	0	0
198	copepod nauplius C		0	0	0	0	121	0	0
199	copepod nauplius		133	133	600	3600	1212	400	0
200	Cyclopoida		67	0	0	0	0	0	0
201	Cyclopoid A (large-low sal)		133	200	733	267	121	267	67
210	Oithona spp.		0	0	0	0	0	0	0
220	Corycaeus sp.		0	0	0	0	0	267	0
250	Harpacticoida		0	67	133	0	364	0	467
251	Harpacticoid B (bronze)		0	0	67	0	0	0	0
300	Amphipoda		0	0	0	0	0	0	0
320	Isopoda		0	0	0	0	0	0	0
321	Isopoda imm.		0	0	0	0	0	0	0
370	Natantia zoea		0	0	0	0	0	0	0
401	barnacle nauplius		133	267	200	0	121	0	0
420	Ostracoda		133	0	0	0	0	0	0
440	Cladocera		0	0	67	0	0	0	0
441	Bosmina sp.		0	0	67	0	0	0	0
601	tintinnid spp.		67	0	0	0	0	0	0
602	Tintinnopsis sp. A		0	67	0	0	0	0	0
603	Tintinnopsis sp. B		200	0	0	0	0	0	0
605	Eutintinnus neriticus		0	0	0	0	0	0	0
701	Synchaeta sp.		67	67	267	0	0	0	0
705	Keratella sp.		0	0	0	0	0	0	67
740	Nematoda		0	67	0	0	0	0	0
751	Ectoprocta larva		0	0	0	0	0	0	0

		Station		9			6			3
		Depth	10.0	5.0	1.0	6.0	1.0	5.0		1.0
Code	Name					Number per cubic meter				
770	Sipunculoidea		0	0	0	0	0	0		0
801	Gastropod veliger		0	0	0	0	0	0		0
821	Bivalvia veliger		67	0	0	0	0	0		0
855	spionid larva		67	0	0	0	0	0		0
880	scaleworm larva		0	0	0	0	0	0		0
						mg Carbon per cubic meter				
			5	4	6	7	2	1		1

DATE	JULIAN DATE	LOCATION	VESSEL	MESH SIZE
100281	81041	North S.F.Bay	Estero	64

TIME	STATION	DEPTH m	TEMP C	SALIN oo/o	CHL a us/l	EXCOF /m	DETRITUS	TIDE	COUNT type
1005	312	0.5	11.5	13.7	8.0	-	3	-1	ship
1051	318	0.5	11.8	12.1	2.9	-	2	-1	ship
1421	418	0.8	12.2	0.6	12.6	-	2	-1	ship

		Station	312	318	418
		Depth	0.5	0.5	0.8
Code	Name		Number per cubic meter		
5	Acartia clausi F		7467	1000	0
6	Acartia clausi M		2133	0	0
7	Acartia clausi C		19467	4000	0
8	Acartia clausi N		20933	8667	0
102	Eurytemora affinis C		0	167	200
199	copepod nauplius		0	0	300
201	Cyclopoid A (large-low sal)		0	167	0
210	Oithona spp.		267	0	0
250	Harpacticoida		267	0	0
420	Ostracoda		400	1333	200
609	Tintinnopsis sp. E (1/4B)		0	167	0
630	coiled Foraminifera		133	0	0
700	Rotifera		0	0	300
801	Gastropod veliger		0	167	0
821	Bivalvia veliger		133	0	0
				mg Carbon per cubic meter	
			42	9	0