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THE MARINE ENVIRONMENT

IN MARINA DEL REY, CALIFORNIA

JULY 1976 - JUNE 1979

LOAN COPY ONLY

APPENDICES A AND B

A REPORT TO  
THE DEPARTMENT OF SMALL CRAFT HARBORS  
COUNTY OF LOS ANGELES

BY

HARBORS ENVIRONMENTAL PROJECTS  
INSTITUTE FOR MARINE AND COASTAL STUDIES  
UNIVERSITY OF SOUTHERN CALIFORNIA  
LOS ANGELES, CALIFORNIA 90007

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MARINE STUDIES OF SAN PEDRO BAY, CALIFORNIA PART 16

JUNE 1980

APPENDIX A

Water Quality Data  
on  
Temperature, Salinity, Dissolved Oxygen  
pH and Turbidity

July 1977 to June 1979\*

\*see Marine Studies of San Pedro Bay, California

Volume 13, for data from  
August 1976 to July 1977

Table 1. Conversion Table for Fahrenheit and Centigrade Temperature Scales.

$^{\circ}\text{C}$	$^{\circ}\text{F}$														
5.0	41.0	8.6	47.5	12.2	54.0	15.8	60.4	19.4	66.9	23.0	73.4	26.6	79.9	30.2	86.4
.1	.2	.7	.7	.3	.1	.9	.6	.5	.1	.6	.7	.7	.80.1	.3	.5
.2	.4	.8	.8	.4	.3	16.0	.8	.6	.3	.2	.8	.8	.2	.4	.7
.3	.5	.9	48.0	.5	.1	61.0	.7	.5	.3	.9	.9	.4	.5	.4	.9
.4	.7	9.0	.2	.6	.7	.2	.8	.6	.4	.74.1	.27.0	.6	.6	.7	.1
.5	.9	.1	.4	.7	.9	.3	.3	.9	.8	.5	.3	.1	.8	.7	.3
.6	42.1	.2	.6	.8	55.0	.4	.5	20.0	68.0	.6	.5	.2	.81.0	.8	.4
.7	.3	.3	.7	.9	.2	.5	.7	.1	.2	.7	.7	.3	.1	.9	.6
.8	.4	.4	.9	13.0	.4	.6	.9	.2	.4	.8	.8	.4	.3	.3	.8
.9	.6	.5	49.1	.1	.6	.7	62.1	.3	.5	.9	75.0	.5	.5	.5	.5
6.0	.8	.6	.3	.2	.8	.8	.2	.4	.7	24.0	.2	.6	.7	.7	.7
.1	43.0	.7	.5	.3	.9	.9	.4	.5	.9	.1	.4	.7	.9	.3	.6
.2	.2	.8	.6	.4	56.1	17.0	.6	.6	.6	.9	.1	.4	.7	.9	.6
.3	.3	.9	.8	.5	.3	.1	.8	.7	.3	.2	.6	.8	.8	.8	.8
.4	.5	10.0	50.0	.6	.5	.2	63.0	.8	.4	.4	.9	.7	.9	.2	.2
.5	.7	.1	.2	.7	.7	.3	.1	.9	.6	.5	76.1	.1	.6	.4	.6
.6	.9	.2	.4	.8	.8	.4	.3	21.0	.8	.6	.6	.3	.7	.9	.2
.7	44.1	.3	.5	.9	57.0	.5	.5	.1	70.0	.7	.5	.5	.9	.3	.8
.8	.2	.4	.7	14.0	.2	.6	.7	.2	.2	.8	.6	.4	.4	.9	.9
.9	.4	.5	.9	.1	.4	.7	.9	.3	.3	.9	.8	.5	.5	.3	.3
7.0	.6	.6	51.1	.2	.6	.8	64.0	.4	.5	25.0	77.0	.6	.6	.5	.5
.1	.8	.7	.3	.3	.7	.9	.2	.5	.7	.1	.2	.7	.7	.7	.7
.2	45.0	.8	.4	.4	.9	18.0	.4	.6	.9	.2	.4	.8	.8	.8	.8
.3	.1	.9	.6	.5	58.1	.1	.6	.7	71.1	.3	.5	.5	.9	.2	.6
.4	.3	11.0	.8	.6	.3	.2	.8	.8	.2	.4	.7	.7	.3	.7	.5
.5	.5	.1	52.0	.7	.5	.3	.9	.4	.5	.9	.1	.4	.4	.4	.9
.6	.7	.2	.2	.8	.6	.4	65.1	22.0	.6	.6	78.1	.2	.6	.5	.5
.7	.9	.3	.3	.9	.8	.5	.3	.1	.8	.7	.3	.3	.3	.7	.5
.8	46.0	.4	.5	15.0	59.0	.6	.5	.2	.2	72.0	.8	.4	.4	.4	.9
.9	.2	.5	.7	.1	.2	.4	.7	.7	.3	.1	.9	.6	.5	.5	.5
8.0	.4	.6	.9	.2	.8	.6	.4	.8	.4	.3	26.0	.8	.6	.6	.3
.1	.6	.7	53.1	.3	.2	.4	.7	.7	.3	.1	.9	.1	.7	.5	.5
.2	.8	.8	.2	.4	.7	.1	.4	.7	.6	.6	.7	.2	.8	.6	.6
.3	.9	.9	.4	.5	.9	.1	.4	.7	.9	.3	.3	.3	.9	.8	.8
.4	47.1	12.0	.6	60.1	.2	.6	.6	.8	73.0	.4	.5	.5	30.0	.86.0	.2
.5	.3	.1	.8	.7	.3	.3	.7	.9	.2	.5	.7	.1	.7	.1	.2

DATE: JUL 21, 1977

TIME: 0835

STATION: MDR1

<u>DEPTH</u> <u>METERS/FEET</u>	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00 0.0	20.36	30.3	7.96	8.50	73.5
01 3.3	20.20	30.3	8.38	8.50	80.0
02 6.6	19.90	30.4	9.06	8.56	80.0
03 9.8	19.80	30.5	9.49	8.60	83.0
04 13.1	19.80	30.5	9.58	8.55	85.0
05 16.4	19.10	30.2	9.50	8.55	86.0
06 19.7	18.87	30.1	8.90	8.48	80.0
07 23.0	17.93	30.25	8.11	8.45	-

DATE: JUL 21, 1977

TIME: 0845

STATION: MDR2

<u>DEPTH</u> <u>METERS/FEET</u>	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00 0.0	20.5	30.4	7.14	8.45	67.0
01 3.3	20.4	30.7	7.25	8.46	79.0
02 6.6	20.2	30.5	7.45	8.45	79.5
03 9.8	19.8	30.5	7.55	8.45	81.0
04 13.1	19.6	30.4	7.40	8.42	82.0
05 16.4	19.2	30.5	7.26	8.42	83.0

DATE: JUL 21, 1977

TIME: 0905

STATION: MDR3

<u>DEPTH</u> <u>METERS/FEET</u>	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00 0.0	20.6	31.1	8.40	8.45	81.0
01 3.3	20.9	31.06	8.12	8.45	80.0
02 6.6	20.9	31.15	7.82	8.42	80.0

DATE: JUL 21, 1977 TIME: 0915

STATION: MDR4

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	TURBIDITY
<u>METERS/FEET</u>		°C	0/00	PPM	H ION CONC	% TRANS
00	0.0	21.1	30.99	8.56	8.42	74.0
01	3.3	21.1	31.3	7.89	8.41	80.0
02	6.6	21.1	31.2	7.71	8.41	81.0
03	9.8	21.0	31.1	7.56	8.39	73.0
04	13.1	19.0	29.9	7.10	8.38	69.0

DATE: JUL 21, 1977 TIME: 0930

STATION: MDR5

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	TURBIDITY
<u>METERS/FEET</u>		°C	0/00	PPM	H ION CONC	% TRANS
00	0.0	21.6	31.5	8.48	8.44	83.0
01	3.3	21.7	31.5	8.22	8.44	82.0
02	6.6	21.5	31.2	7.94	8.44	75.0
03	9.8	20.5	30.7	7.50	8.40	77.0
04	13.1	20.1	30.6	6.50	8.33	59.0

DATE: JUL 21, 1977 TIME: 0945

STATION: MDR6

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	TURBIDITY
<u>METERS/FEET</u>		°C	0/00	PPM	H ION CONC	% TRANS
00	0.0	21.4	31.58	7.00	8.91	59.0
01	3.3	21.5	31.65	6.86	8.35	87.0
02	6.6	21.5	31.61	7.26	8.38	87.0
03	9.8	21.3	31.56	7.32	8.37	87.0

DATE: JUL 21, 1977 TIME: 1105

STATION: MDR7

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	22.0	31.99	7.30	8.38	57.0
01	3.3	22.1	32.07	7.29	8.38	59.0
02	6.6	22.1	31.99	7.32	8.38	67.0
03	9.8	21.4	31.61	6.22	8.32	72.0

DATE: JUL 21, 1977 TIME: 1025

STATION: MDR8

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	22.0	31.8	7.48	8.41	92.0
01	3.3	22.0	31.7	7.33	8.41	89.0
02	6.6	21.9	31.8	7.35	8.40	89.0
03	9.8	21.8	31.8	7.18	8.39	87.0

DATE: JUL 21, 1977 TIME: 1050

STATION: MDR9

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	21.9	31.8	7.11	8.34	55.0
01	3.3	22.0	31.8	6.75	8.34	60.0
02	6.6	22.0	31.8	6.38	8.33	60.0

DATE: JUL 21, 1977 TIME: 1020

STATION: MDR10

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	22.3	31.7	7.05	8.36	80.0
01	3.3	22.3	31.67	6.89	8.36	63.0
02	6.6	22.1	31.6	6.51	8.32	83.0
03	9.8	22.0	31.6	6.05	8.26	83.0

DATE: JUL 21, 1977

TIME: 1035

STATION: MDR11

<u>DEPTH METERS/FEET</u>	<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.02 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00 0.0	22.4	31.95	7.86	8.41	57.0
01 3.3	22.3	31.92	7.80	8.42	66.0
02 6.6	22.3	31.91	7.66	8.41	62.0
03 9.8	21.9	31.72	7.22	8.37	53.0

DATE: JUL 21, 1977

TIME: 1122

STATION: MDR12

<u>DEPTH METERS/FEET</u>	<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.02 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00 0.0	20.25	31.2	8.76	8.48	79.0
01 3.3	20.16	31.3	8.76	8.48	75.0
02 6.6	20.15	31.4	8.82	8.49	76.0
03 9.8	20.15	31.5	8.74	8.49	75.0

DATE: JUL 21, 1977

TIME: 1140

STATION: MDR13

<u>DEPTH METERS/FEET</u>	<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.02 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00 0.0	22.4	31.7	6.60	8.32	91.0
01 3.3	22.6	32.1	6.30	8.32	87.0

DATE: AUG 18, 1977

TIME: 0915

STATION: MDR1

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	TURBIDITY
<u>METERS/FEET</u>		°C	O/OO	PPM	H ION CONC	% TRANS
00	0.0	20.5	31.6	9.4	8.34	
01	3.3	20.5	32.3	9.9	8.34	
02	6.6	20.5	32.5	10.3	8.29	
03	9.8	20.3	32.4	10.4	8.28	
04	13.1	20.2	32.6	10.9	8.26	
05	16.4	19.8	32.7	11.1	8.24	
06	19.7	19.4	32.8	11.3	8.20	

DATE: AUG 18, 1977

TIME: 0929

STATION: MDR2

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	TURBIDITY
<u>METERS/FEET</u>		°C	O/OO	PPM	H ION CONC	% TRANS
00	0.0	20.54	28.66	8.37	8.32	
01	3.3	20.49	31.40	9.46	8.32	
02	6.6	20.35	32.09	9.58	8.31	
03	9.8	20.35	32.42	9.58	8.28	
04	13.1	20.28	32.49	9.63	8.28	
05	16.4	20.26	32.43	9.64	8.25	
06	19.7	19.42	32.40	9.60	8.13	

DATE: AUG 18, 1977

TIME: 0940

STATION: MDR3

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	TURBIDITY
<u>METERS/FEET</u>		°C	O/OO	PPM	H ION CONC	% TRANS
00	0.0	20.95	26.30	8.50	8.18	
01	3.3	20.58	30.57	9.40	8.18	
02	6.6	20.30	32.10	8.46	8.22	

DATE: AUG 18, 1977

TIME: 0943

STATION: MDR4

<u>DEPTH METERS/FEET</u>	<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.O2 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00 0.0	20.92	27.20	9.30	8.15	
01 3.3	20.91	30.75	10.12	8.14	
02 6.6	20.90	32.23	9.80	8.15	
03 9.8	20.20	32.62	10.30	8.16	
04 13.1	19.80	33.02	10.40	8.13	
05 16.4	19.40	32.96	11.09	8.10	

DATE: AUG 18, 1977

TIME: 1000

STATION: MDR5

<u>DEPTH METERS/FEET</u>	<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.O2 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00 0.0	21.30	23.00	6.15	7.99	
01 3.3	21.20	30.99	6.35	7.82	
02 6.6	21.27	32.75	7.68	8.07	
03 9.8	20.07	32.55	8.00	8.08	
04 13.1	20.00	32.60	7.70	8.07	
05 16.4	19.77	33.10	7.27	7.87	

DATE: AUG 18, 1977

TIME: 1016

STATION: MDR6

<u>DEPTH METERS/FEET</u>	<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.O2 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00 0.0	21.43	24.2	5.05	7.85	
01 3.3	21.5	26.5	6.79	7.80	
02 6.6	21.9	27.6	7.16	7.84	
03 9.8	22.29	33.41	7.89	7.88	
04 13.1	21.55	33.05	7.57	7.90	

DATE: AUG 18, 1977

TIME: 1137

STATION: MDR7

<u>METERS/FEET</u>	DEPTH	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	22.13	21.93	8.50	7.82	
01	3.3	22.15	28.50	8.60	7.73	
02	6.6	22.15	31.50	8.99	7.86	
03	9.8	21.78	32.68	8.50	7.87	
04	13.1	21.38	32.79	8.20	7.53	

DATE: AUG 18, 1977

TIME: 1038

STATION: MDR8

<u>METERS/FEET</u>	DEPTH	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	21.95	24.10	6.58	7.65	
01	3.3	21.00	29.60	7.97	7.65	
02	6.6	22.35	32.88	8.40	7.66	
03	9.8	22.30	33.40	7.00	7.76	
04	13.1	21.45	33.00	6.35	7.78	
05	16.4	21.30	33.05	7.69	7.65	

DATE: AUG 18, 1977

TIME: 1120

STATION: MDR9

<u>METERS/FEET</u>	DEPTH	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	22.13	21.15	8.90	7.86	
01	3.3	22.18	26.90	8.79	7.64	
02	6.6	22.03	32.49	9.50	7.65	

DATE: AUG 18, 1977 TIME: 1100

STATION: MDR10

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	22.28	23.20	4.24	7.86	
01	3.3	22.29	25.35	4.25	7.81	
02	6.6	22.32	30.70	4.23	7.80	
03	9.8	22.30	33.22	4.48	7.83	
04	13.1	21.67	33.05	4.85	7.91	
05	16.4	21.27	33.32	4.54	7.51	

DATE: AUG 18, 1977 TIME: 1109

STATION: MDR11

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	21.85	20.35	8.50	7.71	
01	3.3	22.12	26.98	8.28	7.66	
02	6.6	22.20	32.54	8.66	7.83	
03	9.8	21.84	33.08	8.71	7.87	
04	13.1	21.30	32.71	9.08	7.92	

DATE: AUG 18, 1977 TIME: 1210

STATION: MDR12

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	21.41	30.42	8.81	8.12	
01	3.3	21.05	31.84	9.28	8.22	
02	6.6	20.98	32.18	9.98	8.25	
03	9.8	20.85	32.45	10.34	8.25	
04	13.1	20.82	32.49	11.22	8.25	

A10

DATE: AUG 18, 1977 TIME: 1230

STATION: MDR13

DEPTH METERS/FEET	TEMPERATURE °C	SALINITY P/PPM	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00 0.0	22.63	30.39	2.40	8.35	
01 3.3	22.57	26.45	3.02	7.58	
02 6.6	22.45	30.75	3.29	7.62	

All

DATE: SEPT 16, 1977

TIME: 0845

STATION: MDR1

DEPTH METERS/FEET		TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	18.9	32.5	6.9	8.16	
01	3.3	19.0	32.5	7.0	8.16	
02	6.6	19.0	32.4	7.4	8.12	
03	9.8	19.0	32.4	7.9	8.12	
04	13.1	18.9	32.3	8.6	8.12	
05	16.4	18.1	32.0	8.6	8.12	
06	19.7	17.6	31.9	9.4	8.10	
07	23.0	16.5	31.8	9.8	8.09	

DATE: SEPT 16, 1977

TIME: 0908

STATION: MDR2

DEPTH METERS/FEET		TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	18.3	32.4	6.7	8.13	
01	3.3	18.6	32.4	7.0	8.13	
02	6.6	18.6	32.4	7.4	8.12	
03	9.8	18.6	32.4	8.1	8.12	
04	13.1	18.6	32.3	8.3	8.13	
05	16.4	18.3	32.0	8.7	8.13	
06	19.7	17.5	31.6	9.2	8.12	

DATE: SEPT 16, 1977

TIME: 0920

STATION: MDR3

DEPTH METERS/FEET		TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	19.5	33.3	7.0	8.12	
01	3.3	19.6	32.8	7.8	8.11	
02	6.6	19.8	32.5	6.9	8.20	
03	9.8	19.7	32.0	6.2	8.08	
04	13.1	19.5	32.0	6.5	8.11	

A12

DATE: SEPT 16, 1977

TIME: 0940

STATION: MDR4

<u>DEPTH</u>	<u>METERS/FEET</u>	<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
		°C	O/00	PPM	H ION CONC	% TRANS
00	0.0	19.5	32.6	6.1	8.10	
01	3.3	19.7	32.5	6.1	8.09	
02	6.6	19.7	32.7	6.0	8.05	
03	9.8	19.9	32.3	6.0	8.05	
04	13.1	19.9	32.3	6.2	8.05	
05	16.4	19.8	32.3	6.3	8.05	
06	19.7	19.8	32.2	6.3	8.06	

DATE: SEPT 16, 1977

TIME: 0955

STATION: MDR5

<u>DEPTH</u>	<u>METERS/FEET</u>	<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
		°C	O/00	PPM	H ION CONC	% TRANS
00	0.0	20.0	32.6	6.0	8.02	
01	3.3	20.4	32.6	5.5	8.02	
02	6.6	20.4	32.5	6.0	7.99	
03	9.8	20.4	32.5	6.0	7.99	
04	13.1	20.4	32.3	6.9	8.02	
05	16.4	19.8	32.0	7.3	8.04	

DATE: SEPT 16, 1977

TIME: 1008

STATION: MDR6

<u>DEPTH</u>	<u>METERS/FEET</u>	<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
		°C	O/00	PPM	H ION CONC	% TRANS
00	0.0	20.0	32.4	4.7	7.97	
01	3.3	20.3	32.6	4.6	7.95	
02	6.6	20.4	32.6	4.5	7.91	
03	9.8	20.5	32.5	4.4	7.90	
04	13.1	20.5	32.5	4.5	7.88	

DATE: SEPT 16, 1977

TIME: 1135

STATION: MDR7

DEPTH METERS/FEET		TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	21.0	32.6	5.8	7.98	
01	3.3	21.1	32.7	5.4	7.92	
02	6.6	21.2	32.7	5.7	7.90	
03	9.8	21.2	32.6	5.3	7.88	
04	13.1	20.8	32.3	6.4	7.91	

DATE: SEPT 16, 1977

TIME: 1030

STATION: MDR8

DEPTH METERS/FEET		TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	20.8	33.5	5.9	7.97	
01	3.3	20.9	33.0	4.9	7.87	
02	6.6	21.1	32.6	6.4	7.86	
03	9.8	21.1	32.5	6.2	7.83	
04	13.1	21.3	32.4	5.4	7.82	
05	16.4	21.3	32.4	5.5	7.81	

DATE: SEPT 16, 1977

TIME: 1115

STATION: MDR9

DEPTH METERS/FEET		TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	21.0	32.7	6.3	7.89	
01	3.3	21.2	32.7	6.0	7.88	
02	6.6	21.2	32.4	5.8	7.87	

DATE: SEPT 16, 1977

TIME: 1040

STATION: MDR10

	<u>DEPTH</u> <u>METERS/FEET</u>	<u>TEMPERATURE</u> °C	<u>SALINITY</u> 0/00	<u>D.O2</u> PPM	<u>PH</u> H ION CONC	<u>TURBIDITY</u> % TRANS
	00 0.0	21.2	32.8	5.3	7.91	
	01 3.3	21.2	32.8	4.8	7.83	
	02 6.6	21.4	32.5	5.7	7.79	
	03 9.8	21.5	32.5	6.1	7.77	
	04 13.1	21.6	32.5	4.8	7.77	

DATE: SEPT 16, 1977

TIME: 1105

STATION: MDR11

	<u>DEPTH</u> <u>METERS/FEET</u>	<u>TEMPERATURE</u> °C	<u>SALINITY</u> 0/00	<u>D.O2</u> PPM	<u>PH</u> H ION CONC	<u>TURBIDITY</u> % TRANS
	00 0.0	21.3	32.7	4.6	7.90	
	01 3.3	21.4	32.7	4.5	7.89	
	02 6.6	21.3	32.5	4.4	7.88	
	03 9.8	21.1	32.5	4.5	7.89	
	04 13.1	21.0	32.5	4.8	7.93	
	05 16.4	20.8	32.4	4.8	7.94	

DATE: SEPT 16, 1977

TIME: 1230

STATION: MDR12

	<u>DEPTH</u> <u>METERS/FEET</u>	<u>TEMPERATURE</u> °C	<u>SALINITY</u> 0/00	<u>D.O2</u> PPM	<u>PH</u> H ION CONC	<u>TURBIDITY</u> % TRANS
	00 0.0	19.5	33.0	6.7	8.15	
	01 3.3	19.4	32.9	6.7	8.11	
	02 6.6	19.4	32.7	6.6	8.09	
	03 9.8	19.3	32.6	6.6	8.08	

DATE: SEPT 16, 1977

TIME: 1245

STATION: MDR13

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
	00 0.0	21.5	32.6	6.4	7.89	
	01 3.3	21.7	32.7	6.0	7.84	
	02 6.6	21.8	32.8	6.2	7.81	

DATE: OCT 21, 1977

TIME: 0937

STATION: MDR1

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	18.5	32.0	9.8	8.23	
01	3.3	18.4	32.5	10.0	8.15	
02	6.6	18.5	33.4	11.5	8.20	
03	9.8	18.5	33.6	11.0	8.16	
04	13.1	18.5	33.8	11.0	8.12	
05	16.4	18.4	33.8	10.5	8.23	
06	19.7	18.4	33.8	11.0	8.36	
07	23.0	18.3	33.8	11.0	8.32	

DATE: OCT 21, 1977

TIME: 0950

STATION: MDR2

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	18.6	32.5	10.0	8.40	
01	3.3	18.7	32.7	9.6	8.24	
02	6.6	18.7	33.4	10.2	8.24	
03	9.8	18.7	33.7	10.1	8.26	
04	13.1	18.6	33.7	10.1	8.29	
05	16.4	18.6	33.7	10.2	8.28	
06	19.7	18.6	33.7	10.0	8.30	

DATE: OCT 21, 1977

TIME: 1000

STATION: MDR3

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	18.8	33.7	9.5	8.30	
01	3.3	18.8	33.7	9.3	8.24	
02	6.6	18.8	33.7	9.2	8.22	
03	9.8	18.8	33.7	9.1	8.23	

A17

DATE: OCT 21, 1977

TIME: 1015

STATION: MDR4

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
	00 0.0	18.6	33.2	7.7	8.72	
	01 3.3	18.6	33.4	7.1	8.62	
	02 6.6	19.0	33.5	7.3	8.56	
	03 9.8	19.1	33.7	7.6	8.57	
	04 13.1	19.0	33.7	7.6	8.57	
	05 16.4	19.0	33.7	8.0	8.52	
	06 19.7	19.0	33.7	7.6	8.58	

DATE: OCT 21, 1977

TIME: 1025

STATION: MDR5

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
	00 0.0	19.6	33.5	9.6	8.36	
	01 3.3	19.4	33.7	6.8	8.24	
	02 6.6	19.3	33.7	6.8	8.22	
	03 9.8	19.2	33.7	6.7	8.26	
	04 13.1	19.2	33.7	6.4	8.30	
	05 16.4	19.2	33.7	6.5	8.28	

DATE: OCT 21, 1977

TIME: 1040

STATION: MDR6

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
	00 0.0	19.4	33.9	6.8	9.00	
	01 3.3	19.4	33.8	6.7	8.94	
	02 6.6	19.3	33.7	6.6	8.95	
	03 9.8	19.2	33.7	6.4	8.97	
	04 13.1	19.2	33.8	6.5	8.99	

DATE: OCT 21, 1977

TIME: 1140

STATION: MDR7

<u>DEPTH</u> <u>METERS/FEET</u>		<u>TEMPERATURE</u> °C	<u>SALINITY</u> 0/00	<u>D.O2</u> PPM	<u>PH</u> H ION CONC	<u>TURBIDITY</u> % TRANS
00	0.0	20.0	33.6	6.8	8.95	
01	3.3	19.9	33.7	6.0	8.88	
02	6.6	19.9	33.7	5.8	8.87	
03	9.8	19.9	33.8	5.3	8.88	

DATE: OCT 21, 1977

TIME: 1055

STATION: MDR8

<u>DEPTH</u> <u>METERS/FEET</u>		<u>TEMPERATURE</u> °C	<u>SALINITY</u> 0/00	<u>D.O2</u> PPM	<u>PH</u> H ION CONC	<u>TURBIDITY</u> % TRANS
00	0.0	20.0	33.6	7.3	9.03	
01	3.3	19.8	33.7	7.3	8.97	
02	6.6	19.5	33.8	6.9	8.95	
03	9.8	19.5	33.7	7.0	8.93	

DATE: OCT 21, 1977

TIME: 1125

STATION: MDR9

<u>DEPTH</u> <u>METERS/FEET</u>		<u>TEMPERATURE</u> °C	<u>SALINITY</u> 0/00	<u>D.O2</u> PPM	<u>PH</u> H ION CONC	<u>TURBIDITY</u> % TRANS
00	0.0	19.7	33.4	6.4	8.65	
01	3.3	19.7	33.6	6.1	8.60	
02	6.6	19.5	33.7	5.9	8.60	

A19

DATE: OCT 21, 1977 TIME: 1111  
 STATION: MDR10

DEPTH METERS/FEET		TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	20.0	33.5	7.5	8.93	
01	3.3	19.9	33.7	5.8	8.87	
02	6.6	19.8	33.7	5.8	8.86	
03	9.8	19.6	33.7	5.9	8.87	

DATE: OCT 21, 1977 TIME: 1118  
 STATION: MDR11

DEPTH METERS/FEET		TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	20.0	33.8	7.8	8.92	
01	3.3	20.0	33.7	7.8	8.86	
02	6.6	19.9	33.8	7.5	8.87	
03	9.8	19.6	33.8	7.8	8.89	
04	13.1	19.5	33.8	7.1	8.91	

DATE: OCT 21, 1977 TIME: 1155  
 STATION: MDR12

DEPTH METERS/FEET		TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	19.4	33.7	10.8	9.19	
01	3.3	19.2	33.6	10.4	9.14	
02	6.6	19.1	33.6	10.0	9.13	

A20

DATE: OCT 21, 1977

TIME: 1211

STATION: MDR13

<u>DEPTH</u> <u>METERS/FEET</u>	<u>TEMPERATURE</u> <u>°C</u>	<u>SALINITY</u> <u>0/00</u>	<u>D.O2</u> <u>PPM</u>	<u>PH</u> <u>H ION CONC</u>	<u>TURBIDITY</u> <u>% TRANS</u>
00 0.0	20.0	33.6	10.4	9.11	
01 3.3	20.0	33.6	7.6	8.97	
02 6.6	19.9	33.7	10.2	8.76	

A21

DATE: NOV 18, 1977

TIME: 0847

STATION: MDR1

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	17.5	31.4	8.3	7.50	51.5
01	3.3	17.5	32.1	11.3	7.38	53.0
02	6.6	17.6	34.2	12.3	7.34	52.5
03	9.8	17.6	34.2	13.0	7.35	52.0
04	13.1	17.6	34.2	13.2	7.36	51.5
05	16.4	17.6	34.2	13.0	7.36	51.0
06	19.7	17.6	34.2	12.3	7.30	50.5
07	23.0	17.6	34.1	13.2	7.30	51.0

DATE: NOV 18, 1977

TIME: 0900

STATION: MDR2

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	17.5	32.8	10.3	7.41	37.0
01	3.3	17.8	33.6	12.3	7.42	38.0
02	6.6	17.7	34.0	11.8	7.41	35.5
03	9.8	17.7	34.2	12.8	7.41	36.0
04	13.1	17.6	34.2	12.4	7.40	38.0
05	16.4	17.7	34.2	12.2	7.38	38.0

DATE: NOV 18, 1977

TIME: 0911

STATION: MDR3

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	17.7	34.2	8.6	7.25	39.0
01	3.3	17.8	34.2	8.7	7.25	38.0
02	6.6	17.7	34.3	9.5	7.27	37.0
03	9.8	17.7	34.2	8.7	7.29	37.0
04	13.1	17.7	34.2	8.1	7.30	36.5
05	16.4	17.8	34.2	8.2	7.29	37.0
06	19.7	17.8	34.2	8.3	7.30	36.5

DATE: NOV 18, 1977

TIME: 0925

STATION: MDR4

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
	00 0.0	17.9	33.8	7.1	7.17	17.0
	01 3.3	17.9	34.4	8.2	7.20	16.5
	02 6.6	17.9	34.4	6.8	7.22	16.0
	03 9.8	17.9	34.3	7.3	7.24	16.0
	04 13.1	17.9	34.3	7.3	7.26	14.5

DATE: NOV 18, 1977

TIME: 0943

STATION: MDR5

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
	00 0.0	17.8	33.8	9.8	7.22	
	01 3.3	17.8	33.9	9.8	7.21	
	02 6.6	17.8	33.9	9.6	7.23	
	03 9.8	17.8	34.9	9.3	7.26	
	04 13.1	17.8	34.0	9.7	7.28	

DATE: NOV 18, 1977

TIME: 0955

STATION: MDR6

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
	00 0.0	17.6	34.2	8.6	7.26	
	01 3.3	17.7	34.3	8.2	7.21	
	02 6.6	17.7	34.3	8.2	7.19	

DATE: NOV 18, 1977

TIME: 1120

STATION: MDR7

	<u>DEPTH</u> <u>METERS/FEET</u>	<u>TEMPERATURE</u> <u>°C</u>	<u>SALINITY</u> <u>0/00</u>	<u>D.O2</u> <u>PPM</u>	<u>PH</u> <u>H ION CONC</u>	<u>TURBIDITY</u> <u>% TRANS</u>
	00 0.0	18.0	34.3	8.5	7.64	
	01 3.3	18.0	34.3	8.4	7.50	
	02 6.6	18.0	34.3	8.0	7.49	
	03 9.8	18.0	34.3	7.4	7.47	

DATE: NOV 18, 1977

TIME: 1017

STATION: MDR8

	<u>DEPTH</u> <u>METERS/FEET</u>	<u>TEMPERATURE</u> <u>°C</u>	<u>SALINITY</u> <u>0/00</u>	<u>D.O2</u> <u>PPM</u>	<u>PH</u> <u>H ION CONC</u>	<u>TURBIDITY</u> <u>% TRANS</u>
	00 0.0	17.8	34.2	10.5	7.56	
	01 3.3	17.8	34.3	10.4	7.43	
	02 6.6	17.7	34.3	10.1	7.40	
	03 9.8	17.7	34.3	10.4	7.36	
	04 13.1	17.7	34.3	10.6	7.40	

DATE: NOV 18, 1977

TIME: 1100

STATION: MDR9

	<u>DEPTH</u> <u>METERS/FEET</u>	<u>TEMPERATURE</u> <u>°C</u>	<u>SALINITY</u> <u>0/00</u>	<u>D.O2</u> <u>PPM</u>	<u>PH</u> <u>H ION CONC</u>	<u>TURBIDITY</u> <u>% TRANS</u>
	00 0.0	18.0	33.8	8.5	7.45	
	01 3.3	18.0	34.1	8.3	7.40	
	02 6.6	18.0	34.2	8.4	7.16	

DATE: NOV 18, 1977 TIME: 1034

STATION: MDR10

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
	00 0.0	17.6	33.7	10.2	7.49	
	01 3.3	17.6	34.0	9.3	7.37	
	02 6.6	17.6	34.1	9.5	7.37	
	03 9.8	17.6	34.1	11.0	7.37	

DATE: NOV 18, 1977 TIME: 1046

STATION: MDR11

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
	00 0.0	17.9	34.1	8.8	7.31	
	01 3.3	17.9	34.3	9.3	7.29	
	02 6.6	17.9	34.3	9.3	7.31	
	03 9.8	17.8	34.3	9.5	7.32	

DATE: NOV 18, 1977 TIME: 1300

STATION: MDR12

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
	00 0.0	18.1	31.8	8.0	7.76	
	01 3.3	17.7	33.7	11.5	7.82	
	02 6.6	17.7	34.2	11.5	7.83	

DATE: NOV 18, 1977

TIME: 1315

STATION: MDR13

	DEPTH <u>METERS/FEET</u>	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
	00 0.0	17.6	34.5	11.3	7.63	
	01 3.3	17.6	34.4	11.5	7.62	
	02 6.6	17.6	34.4	12.1	7.60	

DATE: DEC 28, 1977

TIME: 0929

STATION: MDR1

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	15.8	4.0	11.9	8.33	
01	3.3	16.0	17.0	11.1	8.17	
02	6.6	16.1	13.5	10.5	8.08	
03	9.8	16.3	24.3	10.7	8.09	
04	13.1	16.4	24.6	10.7	8.12	
05	16.4	16.4	24.6	11.3	8.12	
06	19.7	16.4	25.0	11.4	8.13	

DATE: DEC 28, 1977

TIME: 0934

STATION: MDR2

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	16.0	8.0	10.0	8.41	
01	3.3	16.0	18.9	10.6	7.99	
02	6.6	16.0	22.1	8.9	7.99	
03	9.8	15.9	24.2	8.1	7.96	
04	13.1	15.9	24.6	8.0	7.95	

DATE: DEC 28, 1977

TIME: 1010

STATION: MDR8

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	15.6	18.8	11.7	7.98	
01	3.3	15.7	20.1	11.9	7.93	
02	6.6	15.8	21.8	12.6	7.87	
03	9.8	15.6	24.8	12.6	7.83	
04	13.1	15.6	25.6	12.6	7.83	

DATE: DEC 28, 1977

TIME: 1040

STATION: MDR9

DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.02	PH	TURBIDITY % TRANS
			PPM	H ION CONC	
00 0.0	15.9	19.4	10.9	8.03	
01 3.3	15.9	19.9	11.4	8.01	
02 6.6	15.9	24.0	10.5	7.78	

DATE: DEC 28, 1977

TIME: 1020

STATION: MDR10

DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.02	PH	TURBIDITY % TRANS
			PPM	H ION CONC	
00 0.0	15.7	15.5	10.3	7.99	
01 3.3	15.7	15.9	10.1	7.94	
02 6.6	15.8	18.2	13.2	7.90	
03 9.8	15.8	24.2	7.1	7.84	
04 13.1	15.7	25.8	6.9	7.87	
05 16.4	15.7	26.3	6.4	7.84	

DATE: DEC 28, 1977

TIME: 1033

STATION: MDR11

DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.02	PH	TURBIDITY % TRANS
			PPM	H ION CONC	
00 0.0	15.9	18.5	12.2	8.04	
01 3.3	15.9	19.2	12.5	8.07	
02 6.6	15.9	22.2	13.4	7.91	
03 9.8	15.8	25.0	14.2	7.88	
04 13.1	15.8	25.7	14.8	7.83	

DATE: JAN 20, 1978

TIME: 0840

STATION: MDR1

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	TURBIDITY
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	PPM	H ION CONC	<u>% TRANS</u>
00	0.0	15.0	25.2	7.5	6.78	49.5
01	3.3	15.1	25.3	7.3	6.77	56.0
02	6.6	15.2	25.8	7.4	6.76	40.0
03	9.8	15.4	26.0	7.9	6.74	40.0
04	13.1	15.4	26.2	7.9	6.73	38.5
05	16.4	15.5	26.3	8.0	6.72	27.5
06	19.7	15.5	26.4	8.1	6.71	25.0
07	23.0	15.5	26.5	8.2	6.69	22.0
08	26.2	15.6	26.5	8.1	6.69	16.0

DATE: JAN 20, 1978

TIME: 0848

STATION: MDR2

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	TURBIDITY
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	PPM	H ION CONC	<u>% TRANS</u>
00	0.0	15.0	25.3	7.6	6.68	65.5
01	3.3	15.1	25.4	7.3	6.67	67.0
02	6.6	15.1	25.4	7.3	6.67	68.5
03	9.8	15.3	25.8	7.2	6.66	68.0
04	13.1	15.4	26.2	7.4	6.65	51.5
05	16.4	15.5	26.6	7.8	6.65	46.0
06	19.7	15.5	26.7	8.1	6.64	34.0

DATE: JAN 20, 1978

TIME: 0901

STATION: MDR3

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	TURBIDITY
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	PPM	H ION CONC	<u>% TRANS</u>
00	0.0	15.3	25.7	7.5	6.62	66.0
01	3.3	15.4	25.8	7.3	6.62	69.0
02	6.6	15.5	25.9	7.6	6.61	67.0
03	9.8	15.7	26.4	8.6	6.61	67.0
04	13.1	15.7	26.6	8.7	6.60	51.5
05	16.4	15.6	26.7	9.0	6.59	45.5
06	19.7	15.6	26.8	9.7	6.59	35.0

DATE: JAN 20, 1978

TIME: 0914

STATION: MDR4

<u>DEPTH METERS/FEET</u>		<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.O2 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00	0.0	15.3	25.6	7.6	6.59	62.0
01	3.3	15.5	25.7	7.7	6.58	66.5
02	6.6	15.6	26.1	7.8	6.58	59.5
03	9.8	15.7	26.5	8.2	6.57	49.0
04	13.1	15.7	26.7	8.2	6.56	40.0
05	16.4	15.7	26.7	8.3	6.56	37.0

DATE: JAN 20, 1978

TIME: 0924

STATION: MDR5

<u>DEPTH METERS/FEET</u>		<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.O2 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00	0.0	15.3	25.3	7.1	6.58	76.5
01	3.3	15.6	25.7	7.0	6.58	77.0
02	6.6	15.6	26.0	7.1	6.57	71.0
03	9.8	15.7	26.4	7.3	6.57	62.0
04	13.1	15.7	26.6	7.5	6.56	59.0
05	16.4	15.8	26.8	7.5	6.56	53.5

DATE: JAN 20, 1978

TIME: 0934

STATION: MDR6

<u>DEPTH METERS/FEET</u>		<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.O2 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00	0.0	15.2	25.4	6.8	6.56	85.5
01	3.3	15.3	25.4	7.4	6.55	85.5
02	6.6	15.3	25.5	7.4	6.55	85.5

DATE: JAN 20, 1978 TIME: 1035

STATION: MDR7

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	O/00	PPM	H ION CONC	% TRANS
00	0.0	15.8	26.0	7.3	6.55	72.5
01	3.3	15.9	26.4	6.8	6.54	72.0
02	6.6	15.9	26.6	7.0	6.54	67.5
03	9.8	16.0	27.0	6.8	6.54	55.5

DATE: JAN 20, 1978 TIME: 0952

STATION: MDR8

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	O/00	PPM	H ION CONC	% TRANS
00	0.0	14.8	24.9	8.0	6.56	65.0
01	3.3	15.2	25.2	6.9	6.55	73.5
02	6.6	15.8	26.1	6.6	6.54	69.0
03	9.8	15.9	26.5	6.7	6.54	64.0
04	13.1	16.0	26.7	6.6	6.54	-

DATE: JAN 20, 1978 TIME: 1025

STATION: MDR9

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	O/00	PPM	H ION CONC	% TRANS
00	0.0	15.9	26.3	7.9	6.53	63.0
01	3.3	16.1	26.3	7.6	6.52	68.5

DATE: JAN 20, 1978 TIME: 1006

STATION: MDR10

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	O/00	PPM	H ION CONC	% TRANS
00	0.0	15.5	24.4	6.8	6.54	64.5
01	3.3	15.7	25.1	6.9	6.53	66.0
02	6.6	15.9	25.9	7.6	6.53	68.0
03	9.8	16.0	26.5	7.9	6.53	69.5

DATE: JAN 20, 1978

TIME: 1016

STATION: MDR11

	DEPTH <u>METERS/FEET</u>	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
	00 0.0	15.8	25.9	7.8	6.54	77.0
	01 3.3	15.9	26.2	7.7	6.53	77.5
	02 6.6	15.9	26.3	8.2	6.53	72.5
	03 9.8	15.9	26.6	8.8	6.53	67.5

DATE: JAN 20, 1978

TIME: 1101

STATION: MDR12

	DEPTH <u>METERS/FEET</u>	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
	00 0.0	15.5	20.5	9.4	6.54	31.5
	01 3.3	15.7	24.7	7.4	6.54	32.0
	02 6.6	15.7	25.8	7.1	6.53	28.0

DATE: JAN 20, 1978

TIME: 1116

STATION: MDR13

	DEPTH <u>METERS/FEET</u>	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
	00 0.0	15.0	11.7	6.0	6.48	65.0
	01 3.3	16.0	22.1	5.8	6.49	75.0

DATE: FEB 17, 1978

TIME: 0820

STATION: MDR1

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	O/00	PPM	H. ION CONC	% TRANS
00	0.0	14.5	27.9	7.6	8.04	68.0
01	3.3	14.8	30.0	7.5	8.05	67.5
02	6.6	14.9	30.3	7.8	8.07	69.0
03	9.8	15.0	30.7	8.3	8.12	65.0
04	13.1	15.1	30.8	8.8	8.14	59.5
05	16.4	15.1	30.7	9.1	8.14	56.5
06	19.7	15.0	30.7	9.4	8.14	46.0
07	23.0	15.2	30.9	9.5	8.12	33.0

DATE: FEB 17, 1978

TIME: 0828

STATION: MDR2

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	O/00	PPM	H. ION CONC	% TRANS
00	0.0	14.5	30.3	8.0	8.10	61.0
01	3.3	14.8	30.1	8.3	8.10	68.5
02	6.6	14.8	30.1	8.2	8.10	68.0
03	9.8	14.9	30.1	8.4	8.10	68.0
04	13.1	14.9	30.1	9.1	8.10	68.0

DATE: FEB 17, 1978

TIME: 0840

STATION: MDR3

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	O/00	PPM	H. ION CONC	% TRANS
00	0.0	14.7	29.7	7.4	8.11	73.0
01	3.3	14.8	29.8	7.4	8.10	72.0
02	6.6	15.1	30.3	7.4	8.10	71.0
03	9.8	15.1	30.5	7.5	8.11	57.0
04	13.1	15.1	30.8	7.7	8.13	46.0
05	16.4	15.1	30.9	7.7	8.13	41.5
06	19.7	15.1	30.8	7.6	8.12	38.5

DATE: FEB 17, 1978 TIME: 0855

STATION: MDR4

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS.</u>
00	0.0	15.0	30.4	8.2	8.12	62.5
01	3.3	15.2	30.3	8.2	8.11	70.0
02	6.6	15.2	30.3	8.8	8.10	70.0
03	9.8	15.2	30.4	9.2	8.12	62.0
04	13.1	15.2	30.7	9.4	8.13	54.5
05	16.4	15.1	30.7	9.5	8.13	47.0
06	19.7	15.2	30.6	8.6	8.12	44.0

DATE: FEB 17, 1978 TIME: 0908

STATION: MDR5

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS.</u>
00	0.0	15.1	30.3	9.5	8.07	46.5
01	3.3	15.3	30.2	10.2	8.07	46.0
02	6.6	15.3	30.1	7.3	8.07	46.0
03	9.8	15.3	30.4	8.1	8.11	46.0
04	13.1	15.3	30.6	9.1	8.12	46.0
05	16.4	15.3	30.7	7.6	8.06	46.0

DATE: FEB 17, 1978 TIME: 0922

STATION: MDR6

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS.</u>
00	0.0	15.2	29.9	8.2	8.10	
01	3.3	15.3	30.0	9.2	8.09	
02	6.6	15.4	29.9	9.9	8.08	
03	9.8	15.5	30.1	10.4	8.07	

DATE: FEB 17, 1978

TIME: 1048

STATION: MDR7

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	15.8	30.4	8.3	8.02	
01	3.3	15.9	30.3	8.7	8.02	
02	6.6	15.8	30.4	9.4	8.03	

DATE: FEB 17, 1978

TIME: 0943

STATION: MDR8

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	15.3	30.2	8.3	8.07	
01	3.3	15.3	30.1	8.6	8.05	
02	6.6	15.3	30.0	8.9	8.05	
03	9.8	15.3	30.1	9.5	8.05	
04	13.1	15.7	30.4	9.3	7.98	

DATE: FEB 17, 1978

TIME: 1028

STATION: MDR9

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	15.9	30.3	7.5	8.04	
01	3.3	16.0	30.2	7.8	8.04	
02	6.6	15.9	30.4	8.0	8.04	
03	9.8	15.9	30.4	8.2	8.05	

DATE: FEB 17, 1978

TIME: 1005

STATION: MDR10

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	15.6	27.3	6.2	7.96	63.0
01	3.3	15.8	28.7	6.3	7.98	65.0
02	6.6	15.9	30.3	6.7	8.04	68.0
03	9.8	16.1	30.6	6.9	8.04	67.5

DATE: FEB 17, 1978 TIME: 1015

STATION: MDR11

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	O/00	PPM	H ION CONC	% TRANS
00	0.0	15.8	30.8	7.8	8.06	
01	3.3	15.8	30.2	8.4	8.06	
02	6.6	15.8	30.2	9.6	8.06	
03	9.8	16.1	30.5	9.5	8.06	

DATE: FEB 17, 1978 TIME: 1132

STATION: MDR12

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	O/00	PPM	H ION CONC	% TRANS
00	0.0	16.15	22.18	7.25	7.96	
01	3.3	15.7	29.30	7.90	8.03	
02	6.6	15.6	30.00	8.00	8.02	

DATE: FEB 17, 1978 TIME: 1200

STATION: MDR13

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	O/00	PPM	H ION CONC	% TRANS
00	0.0	16.3	20.6	6.3	7.53	
01	3.3	16.5	28.9	5.6	7.60	

DATE: MAR 17, 1978

TIME: 0835

STATION: MDR1

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.O2</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	16.9	27.4	8.1	8.13	
01	3.3	17.0	29.7	8.1	8.13	
02	6.6	17.0	29.8	8.3	8.14	
03	9.8	16.7	29.9	8.6	8.15	
04	13.1	16.6	29.9	9.7	8.16	
05	16.4	16.5	29.9	10.0	8.16	
06	19.7	16.4	29.9	10.0	8.14	

DATE: MAR 17, 1978

TIME: 0840

STATION: MDR2

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.O2</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	16.6	26.7	8.0	8.11	
01	3.3	17.0	30.0	8.0	8.12	
02	6.6	17.0	30.0	8.2	8.14	
03	9.8	17.0	29.9	8.2	8.15	
04	13.1	16.8	29.9	8.2	8.14	
05	16.4	16.3	29.9	7.5	8.11	

DATE: MAR 17, 1978

TIME: 0859

STATION: MDR3

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.O2</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	17.4	30.1	6.8	8.03	
01	3.3	17.2	30.0	6.8	8.04	
02	6.6	16.9	29.8	7.2	8.07	
03	9.8	16.3	29.9	7.1	8.07	
04	13.1	16.3	30.0	7.1	8.06	
05	16.4	16.1	30.1	6.8	8.04	

DATE: MAR 17, 1978 TIME: 0918

STATION: MDR4

<u>DEPTH METERS/FEET</u>		<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.O2 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00	0.0	17.2	30.5	8.0	8.07	
01	3.3	17.0	30.2	8.2	8.07	
02	6.6	16.7	30.2	8.7	8.08	
03	9.8	16.5	30.2	8.9	8.06	
04	13.1	16.3	30.2	8.4	8.03	

DATE: MAR 17, 1978 TIME: 0944

STATION: MDR5

<u>DEPTH METERS/FEET</u>		<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.O2 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00	0.0	17.6	30.1	7.7	8.05	
01	3.3	17.5	30.1	7.5	8.10	
02	6.6	17.2	30.2	7.3	8.09	
03	9.8	16.6	30.3	7.0	8.07	
04	13.1	16.3	30.3	6.5	8.04	

DATE: MAR 17, 1978 TIME: 1001

STATION: MDR6

<u>DEPTH METERS/FEET</u>		<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.O2 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00	0.0	18.6	29.3	8.1	8.16	
01	3.3	17.9	29.1	8.5	8.16	
02	6.6	17.7	29.1	7.9	8.03	

DATE: MAR 17, 1978

TIME: 1121

STATION: MDR7

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>X TRANS</u>
00	0.0	18.8	30.9	7.8	7.99	
01	3.3	18.0	30.6	7.9	8.00	
02	6.6	17.6	30.3	8.1	7.99	

DATE: MAR 17, 1978

TIME: 1020

STATION: MDR8

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>X TRANS</u>
00	0.0	18.8	29.7	7.5	8.10	
01	3.3	18.1	29.7	8.2	8.10	
02	6.6	17.6	29.7	8.0	8.07	
03	9.8	17.0	30.3	8.3	8.03	

DATE: MAR 17, 1978

TIME: 1103

STATION: MDR9

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>X TRANS</u>
00	0.0	17.7	30.2	7.3	8.01	
01	3.3	17.4	30.1	7.2	8.01	

DATE: MAR 17, 1978

TIME: 1037

STATION: MDR10

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>X TRANS</u>
00	0.0	18.8	29.9	7.2	8.04	
01	3.3	18.4	29.9	7.3	8.04	
02	6.6	17.7	29.9	7.5	8.10	

DATE: MAR 17, 1978 TIME: 1050

STATION: MDR11

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	TURBIDITY
<u>METERS/FEET</u>		°C	O/00	PPM	H ION CONC	% TRANS
00	0.0	17.8	29.3	7.8	8.12	
01	3.3	17.6	30.6	8.0	8.12	
02	6.6	17.0	30.3	7.7	8.11	
03	9.8	16.7	30.2	7.1	8.08	

DATE: MAR 17, 1978 TIME: 1330

STATION: MDR12

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	TURBIDITY
<u>METERS/FEET</u>		°C	O/00	PPM	H ION CONC	% TRANS
00	0.0	20.8	25.3	7.0	8.03	
01	3.3	19.1	28.3	8.1	8.06	
02	6.6	17.9	29.6	8.8	8.06	

DATE: MAR 17, 1978 TIME: 1345

STATION: MDR13

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	TURBIDITY
<u>METERS/FEET</u>		°C	O/00	PPM	H ION CONC	% TRANS
00	0.0	21.6	28.8	8.6	8.07	
01	3.3	20.0	28.3	9.2	8.06	

DATE: APR 21, 1978 TIME: 0832

STATION: MDR1

<u>DEPTH</u>	<u>METERS/FEET</u>	<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.O2</u>	<u>PH</u>	<u>TURBIDITY</u>
		°C	O/00	PPM	H ION CONC	% TRANS
00	0.0	15.5	31.3	9.5	8.29	
01	3.3	15.7	31.2	9.2	8.27	
02	6.6	15.7	31.1	9.1	8.26	
03	9.8	15.8	31.1	8.8	8.31	
04	13.1	15.7	31.0	9.2	8.27	
05	16.4	15.3	30.9	8.8	8.23	

DATE: APR 21, 1978 TIME: 0846

STATION: MDR2

<u>DEPTH</u>	<u>METERS/FEET</u>	<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.O2</u>	<u>PH</u>	<u>TURBIDITY</u>
		°C	O/00	PPM	H ION CONC	% TRANS
00	0.0	15.7	31.2	10.1	8.30	
01	3.3	16.0	30.9	9.7	8.30	
02	6.6	16.0	30.9	9.8	8.30	
03	9.8	15.9	31.0	9.6	8.29	
04	13.1	15.9	31.0	9.5	8.30	
05	16.4	15.9	31.0	9.4	8.28	
06	19.7	15.7	30.9	9.1	8.24	

DATE: APR 21, 1978 TIME: 0901

STATION: MDR3

<u>DEPTH</u>	<u>METERS/FEET</u>	<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.O2</u>	<u>PH</u>	<u>TURBIDITY</u>
		°C	O/00	PPM	H ION CONC	% TRANS
00	0.0	16.5	31.3	11.3	8.32	
01	3.3	16.9	31.0	11.4	8.32	
02	6.6	16.8	30.8	12.3	8.32	
03	9.8	16.6	30.8	12.7	8.31	
04	13.1	16.6	30.9	13.4	8.28	
05	16.4	16.3	30.8	14.0	8.26	

DATE: APR 21, 1978 TIME: 0917

STATION: MDR4

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS.</u>
00	0.0	17.1	31.0	9.5	8.28	
01	3.3	17.2	30.9	9.5	8.28	
02	6.6	17.2	30.9	9.5	8.28	
03	9.8	17.2	30.8	9.5	8.29	
04	13.1	17.2	30.8	9.4	8.26	
05	16.4	17.2	30.8	9.4	8.25	
06	19.7	17.0	30.8	9.0	8.25	

DATE: APR 21, 1978 TIME: 0931

STATION: MDR5

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS.</u>
00	0.0	17.4	31.3	10.0	8.28	
01	3.3	17.5	30.9	9.8	8.27	
02	6.6	17.5	30.8	9.8	8.28	
03	9.8	17.5	30.8	9.7	8.28	
04	13.1	17.4	30.7	9.6	8.28	
05	16.4	17.2	30.8	9.5	8.27	

DATE: APR 21, 1978 TIME: 0945

STATION: MDR6

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS.</u>
00	0.0	16.9	30.9	10.1	8.31	
01	3.3	17.1	30.8	10.0	8.30	
02	6.6	17.1	30.8	9.9	8.27	
03	9.8	17.1	30.8	9.8	8.25	

DATE: APR 21, 1978 TIME: 1059

STATION: MDR7

DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00 0.0	17.6	31.0	9.2	8.23	
01 3.3	17.7	30.9	9.2	8.22	
02 6.6	17.6	30.9	8.9	8.21	
03 9.8	17.4	30.9	8.7	8.21	

DATE: APR 21, 1978 TIME: 1005

STATION: MDR8

DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00 0.0	17.4	31.4	9.8	8.28	
01 3.3	17.6	30.9	9.5	8.77	
02 6.6	17.6	30.9	9.8	8.27	
03 9.8	17.4	30.8	9.7	8.26	

DATE: APR 21, 1978 TIME: 1047

STATION: MDR9

DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00 0.0	17.7	30.9	8.8	8.18	
01 3.3	17.7	30.7	8.6	8.19	

DATE: APR 21, 1978 TIME: 1024

STATION: MDR10

DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00 0.0	18.0	31.3	9.8	8.27	
01 3.3	17.9	30.9	9.7	8.26	
02 6.6	17.8	30.9	9.9	8.24	
03 9.8	17.6	30.9	10.3	8.23	

DATE: APR 21, 1978 TIME: 1036

STATION: MDR11

<u>DEPTH METERS/FEET</u>		<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.O2 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00	0.0	18.0	31.0	9.8	8.29	
01	3.3	17.8	30.9	9.7	8.29	
02	6.6	17.6	30.8	9.3	8.26	
03	9.8	17.4	30.9	9.0	8.26	
04	13.1	17.4	31.0	9.1	8.20	

DATE: APR 21, 1978 TIME: 1120

STATION: MDR12

<u>DEPTH METERS/FEET</u>		<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.O2 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00	0.0	18.4	25.1	9.8	8.30	
01	3.3	16.9	29.7	9.5	8.24	
02	6.6	16.8	30.6	9.4	8.22	

DATE: APR 21, 1978 TIME: 1130

STATION: MDR13

<u>DEPTH METERS/FEET</u>		<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.O2 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00	0.0	18.6	30.8	9.4	8.23	
01	3.3	18.6	30.8	9.3	8.22	

DATE: MAY 19, 1978

TIME: 0852

STATION: MDR1

DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.02	PH	TURBIDITY % TRANS
			PPM	H ION CONC	
00 0.0	18.9	30.9	7.8	8.10	
01 3.3	18.9	31.0	6.8	8.09	
02 6.6	18.9	31.0	7.1	8.10	
03 9.8	18.8	31.0	7.4	8.10	
04 13.1	18.8	31.0	7.2	8.10	
05 16.4	18.7	31.0	7.4	8.10	
06 19.7	18.5	31.0	7.2	8.09	
07 23.0	18.3	31.1	7.4	8.07	
08 26.2	16.7	31.4	6.9	7.99	

DATE: MAY 19, 1978

TIME: 0901

STATION: MDR2

DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.02	PH	TURBIDITY % TRANS
			PPM	H ION CONC	
00 0.0	18.8	30.7	7.7	8.16	
01 3.3	18.6	31.8	7.4	8.14	
02 6.6	18.6	30.9	7.0	8.13	
03 9.8	18.4	31.0	7.0	8.10	
04 13.1	18.3	31.0	6.9	8.09	
05 16.4	18.3	31.0	6.7	8.08	
06 19.7	18.1	31.0	6.4	8.06	

DATE: MAY 19, 1978

TIME: 0915

STATION: MDR3

DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.02	PH	TURBIDITY % TRANS
			PPM	H ION CONC	
00 0.0	18.8	30.6	6.2	8.27	
01 3.3	18.8	30.7	8.6	8.16	
02 6.6	19.1	30.7	5.5	8.10	
03 9.8	18.6	30.9	5.9	8.10	
04 13.1	18.1	31.1	6.1	8.08	
05 16.4	17.7	31.2	6.2	8.05	
06 19.7	16.4	31.4	5.6	7.97	

DATE: MAY 19, 1978

TIME: 0924

STATION: MDR4

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	TURBIDITY
<u>METERS/FEET</u>		°C	‰/PPM	PPM	H ION CONC	% TRANS
00	0.0	19.3	30.6	5.3	8.30	
01	3.3	19.4	30.7	5.6	8.21	
02	6.6	19.4	30.7	5.5	8.15	
03	9.8	19.3	30.8	5.2	8.10	
04	13.1	18.6	31.0	4.9	8.85	
05	16.4	18.0	31.4	4.5	8.02	
06	19.7	17.0	31.6	4.5	7.98	

DATE: MAY 19, 1978

TIME: 0941

STATION: MDR5

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	TURBIDITY
<u>METERS/FEET</u>		°C	‰/PPM	PPM	H ION CONC	% TRANS
00	0.0	20.2	30.6	6.0	8.18	
01	3.3	19.8	30.8	5.1	8.10	
02	6.6	19.5	30.9	5.1	8.08	
03	9.8	19.1	31.0	5.2	8.06	
04	13.1	17.8	31.3	5.1	8.02	
05	16.4	17.3	31.5	4.5	7.98	

DATE: MAY 19, 1978

TIME: 0955

STATION: MDR6

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	TURBIDITY
<u>METERS/FEET</u>		°C	‰/PPM	PPM	H ION CONC	% TRANS
00	0.0	19.8	30.6	4.8	8.11	
01	3.3	19.8	30.8	4.9	8.06	
02	6.6	19.7	30.9	5.0	8.02	
03	9.8	19.2	31.0	5.2	7.99	

DATE: MAY 19, 1978 TIME: 1125

STATION: MDR7

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	0/‰	PPM	H ION CONC	% TRANS.
00	0.0	20.8	30.9	4.5	8.50	
01	3.3	20.7	31.0	4.8	7.99	
02	6.6	20.3	31.1	4.9	7.98	
03	9.8	19.8	31.2	4.7	7.97	

DATE: MAY 19, 1978 TIME: 1021

STATION: MDR8

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	0/‰	PPM	H ION CONC	% TRANS.
00	0.0	20.4	31.0	3.9	7.99	
01	3.3	20.4	31.0	5.0	7.99	
02	6.6	20.3	31.0	5.2	7.98	
03	9.8	19.0	31.1	5.1	7.97	
04	13.1	18.5	31.5	4.9	2.91	

DATE: MAY 19, 1978 TIME: 1105

STATION: MDR9

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	0/‰	PPM	H ION CONC	% TRANS.
00	0.0	20.0	30.7	5.4	8.17	
01	3.3	20.0	30.7	5.3	7.99	

DATE: MAY 19, 1978 TIME: 1041

STATION: MDR10

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	0/‰	PPM	H ION CONC	% TRANS.
00	0.0	20.3	29.1	5.1	7.93	
01	3.3	20.4	29.4	5.3	7.92	
02	6.6	19.9	30.5	4.6	7.89	
03	9.8	19.1	31.1	5.4	7.91	
04	13.1	18.7	31.2	4.7	7.85	

DATE: MAY 19, 1978 TIME: 1050

STATION: MDR11

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	20.7	30.5	5.5	7.98	
01	3.3	20.5	30.7	5.2	7.99	
02	6.6	19.9	31.3	5.4	7.97	
03	9.8	19.0	31.3	5.4	7.97	
04	13.1	18.3	31.5	5.3	7.97	

DATE: MAY 19, 1978 TIME: 1200

STATION: MDR12

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	20.9	26.0	5.9	8.04	
01	3.3	19.4	29.3	5.5	8.01	
02	6.6	18.6	30.1	4.9	9.02	

DATE: MAY 19, 1978 TIME: 1225

STATION: MDR13

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	21.8	30.7	4.8	7.97	
01	3.3	21.7	30.7	4.4	7.95	

DATE: JUN 16, 1978

TIME: 0850

STATION: MDR1

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	PPM	H ION CONC	<u>% TRANS</u>
00	0.0	19.2	28.9	8.7	8.28	
01	3.3	18.9	29.5	9.3	8.28	
02	6.6	18.7	30.4	9.4	8.27	
03	9.8	18.7	30.9	8.3	8.26	
04	13.1	18.1	31.0	9.6	8.26	
05	16.4	18.2	31.1	9.1	8.25	
06	19.7	18.1	31.2	9.3	8.25	
07	23.0	18.0	31.2	9.2	8.24	
08	26.2	16.8	31.3	9.0	8.21	

DATE: JUN 16, 1978

TIME: 0910

STATION: MDR2

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	PPM	H ION CONC	<u>% TRANS</u>
00	0.0	19.2	28.8	8.4	8.34	
01	3.3	18.8	29.4	7.1	8.28	
02	6.6	18.7	30.2	7.6	8.27	
03	9.8	18.6	30.6	8.2	8.27	
04	13.1	18.3	31.0	8.2	8.27	
05	16.4	18.1	31.1	8.9	8.26	

DATE: JUN 16, 1978

TIME: 0925

STATION: MDR3

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	PPM	H ION CONC	<u>% TRANS</u>
00	0.0	19.8	30.8	7.4	8.27	
01	3.3	20.0	30.8	6.0	8.24	
02	6.6	19.5	31.1	6.6	8.21	
03	9.8	18.8	31.5	6.4	8.20	
04	13.1	17.9	32.0	6.7	8.19	
05	16.4	16.4	31.9	7.3	8.17	
06	19.7	16.1	32.0	5.4	8.17	

DATE: JUN 16, 1978 TIME: 0815

STATION: MDR4

<u>DEPTH METERS/FEET</u>		<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.02 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00	0.0	20.8	30.6	8.6	8.13	
01	3.3	20.8	30.7	8.2	8.13	
02	6.6	20.7	30.8	7.9	8.13	
03	9.8	20.2	31.3	7.0	8.15	
04	13.1	19.3	31.8	7.4	8.16	

DATE: JUN 16, 1978 TIME: 0948

STATION: MDR5

<u>DEPTH METERS/FEET</u>		<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.02 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00	0.0	21.8	30.8	9.1	8.19	
01	3.3	21.6	30.8	9.0	8.18	
02	6.6	21.3	31.1	8.3	8.18	
03	9.8	20.5	31.2	8.9	8.19	
04	13.1	20.1	31.3	8.5	8.19	
05	16.4	19.6	31.4	8.9	8.18	

DATE: JUN 16, 1978 TIME: 1005

STATION: MDR6

<u>DEPTH METERS/FEET</u>		<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.02 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00	0.0	21.3	30.7	6.5	8.19	
01	3.3	21.3	30.9	6.1	8.19	
02	6.6	21.2	31.0	5.9	8.17	
03	9.8	21.2	31.1	5.9	8.16	

A50

DATE: JUN 16, 1978

TIME: 1130

STATION: MDR7

<u>DEPTH METERS/FEET</u>	<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.O2 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00 0.0	22.4	30.4	8.3	8.13	
01 3.3	22.5	30.6	8.2	8.14	
02 6.6	22.6	30.7	8.6	8.15	
03 9.8	22.5	30.9	9.0	8.15	

DATE: JUN 16, 1978

TIME: 1035

STATION: MDR8

<u>DEPTH METERS/FEET</u>	<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.O2 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00 0.0	21.9	30.8	7.4	8.19	
01 3.3	21.9	31.0	8.2	8.18	
02 6.6	21.7	31.1	7.6	8.17	
03 9.8	21.6	31.2	7.8	8.17	

DATE: JUN 16, 1978

TIME: 1115

STATION: MDR9

<u>DEPTH METERS/FEET</u>	<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.O2 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00 0.0	23.1	30.2	7.6	8.15	
01 3.3	23.0	30.4	7.3	8.15	
02 6.6	22.6	30.8	5.3	8.13	

DATE: JUN 16, 1978

TIME: 1055

STATION: MDR10

<u>DEPTH METERS/FEET</u>	<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.O2 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00 0.0	22.5	30.8	9.0	8.33	
01 3.3	22.6	30.9	7.5	8.28	
02 6.6	22.1	31.1	6.9	8.22	
03 9.8	21.8	31.1	7.2	8.19	

DATE: JUN 16, 1978 TIME: 1107  
 STATION: MDR11

<u>DEPTH</u> <u>METERS/FEET</u>		<u>TEMPERATURE</u> °C	<u>SALINITY</u> 0/00	<u>D.02</u> PPM	<u>PH</u> H ION CONC	<u>TURBIDITY</u> % TRANS.
00	0.0	22.8	30.7	8.5	8.14	
01	3.3	22.8	30.7	7.3	8.13	
02	6.6	22.6	30.8	7.3	8.13	
03	9.8	22.2	31.0	7.1	8.15	
04	13.1	21.6	31.2	6.3	8.15	

DATE: JUN 16, 1978 TIME: 1145  
 STATION: MDR12

<u>DEPTH</u> <u>METERS/FEET</u>		<u>TEMPERATURE</u> °C	<u>SALINITY</u> 0/00	<u>D.02</u> PPM	<u>PH</u> H ION CONC	<u>TURBIDITY</u> % TRANS.
00	0.0	23.1	24.8	7.8	8.34	
01	3.3	21.7	25.7	7.3	8.21	
02	6.6	19.5	30.8	7.6	8.12	

DATE: JUN 16, 1978 TIME: 1203  
 STATION: MDR13

<u>DEPTH</u> <u>METERS/FEET</u>		<u>TEMPERATURE</u> °C	<u>SALINITY</u> 0/00	<u>D.02</u> PPM	<u>PH</u> H ION CONC	<u>TURBIDITY</u> % TRANS.
00	0.0	23.3	30.1	4.9	8.23	
01	3.3	23.3	30.7	5.7	8.21	

DATE: JUL 21, 1978

TIME: 0855

STATION: MDR1

DEPTH METERS/FEET		TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	18.2	30.7	7.0	8.12	
01	3.3	17.8	31.1	6.9	8.16	
02	6.6	17.4	31.3	7.0	8.18	
03	9.8	17.1	31.5	7.5	8.18	
04	13.1	16.0	31.8	7.9	8.17	
05	16.4	15.6	31.5	7.7	8.16	
06	19.7	14.3	31.6	6.9	8.12	
07	23.0	13.6	31.9	6.8	8.11	

DATE: JUL 21, 1978

TIME: 0908

STATION: MDR2

DEPTH METERS/FEET		TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	19.0	30.9	7.9	8.38	
01	3.3	18.7	31.1	8.1	8.32	
02	6.6	18.4	31.3	7.3	8.28	
03	9.8	17.1	31.5	7.1	8.25	
04	13.1	16.9	31.5	6.8	8.23	
05	16.4	16.2	31.7	7.1	8.20	
06	19.7	15.5	31.5	6.6	8.18	

DATE: JUL 21, 1978

TIME: 0920

STATION: MDR3

DEPTH METERS/FEET		TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	18.2	30.7	6.7	8.28	
01	3.3	18.1	30.8	6.4	8.25	
02	6.6	18.0	30.9	6.7	8.24	
03	9.8	17.9	31.1	6.6	8.24	
04	13.1	17.9	31.1	6.6	8.24	
05	16.4	17.9	31.1	6.8	8.23	

DATE: JUL 21, 1978 TIME: 0935

STATION: MDR4

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	O/00	PPM	H ION CONC	% TRANS
00	0.0	19.6	30.8	6.0	8.20	
01	3.3	19.5	30.8	5.8	8.18	
02	6.6	19.5	31.0	5.9	8.18	
03	9.8	19.2	31.1	5.9	8.19	
04	13.1	18.8	31.3	5.7	8.19	
05	16.4	18.6	31.3	6.2	8.19	

DATE: JUL 21, 1978 TIME: 0945

STATION: MDR5

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	O/00	PPM	H ION CONC	% TRANS
00	0.0	20.5	30.5	6.6	8.29	
01	3.3	20.6	30.7	6.4	8.22	
02	6.6	20.4	30.8	6.2	8.20	
03	9.8	20.3	31.0	5.6	8.17	
04	13.1	19.9	31.2	5.6	8.17	
05	16.4	19.7	31.2	6.0	8.16	

DATE: JUL 21, 1978 TIME: 1000

STATION: MDR6

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	O/00	PPM	H ION CONC	% TRANS
00	0.0	20.4	30.6	4.5	8.14	
01	3.3	20.4	30.8	4.9	8.12	
02	6.6	20.4	31.0	4.9	8.12	
03	9.8	20.3	31.0	4.8	8.11	
04	13.1	20.3	31.1	3.9	8.10	

DATE: JUL 21, 1978

TIME: 1120

STATION: MDR7

DEPTH METERS/FEET		TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	21.0	30.6	5.4	8.12	
01	3.3	21.0	30.8	5.4	8.12	
02	6.6	20.8	31.1	4.8	8.12	
03	9.8	20.4	31.2	4.8	8.11	
04	13.1	20.2	31.2	4.9	8.11	

DATE: JUL 21, 1978

TIME: 1022

STATION: MDR8

DEPTH METERS/FEET		TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	20.9	30.4	6.2	8.10	
01	3.3	21.1	30.9	5.6	8.11	
02	6.6	21.0	31.1	5.4	8.10	
03	9.8	21.0	31.1	5.9	8.10	
04	13.1	20.9	31.1	5.8	8.09	

DATE: JUL 21, 1978

TIME: 1100

STATION: MDR9

DEPTH METERS/FEET		TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	21.1	30.4	4.9	8.06	
01	3.3	21.1	30.6	4.8	8.05	
02	6.6	20.7	31.0	5.2	8.07	
03	9.8	20.6	31.2	5.0	8.06	

DATE: JUL 21, 1978 TIME: 1038

STATION: MDR10

DEPTH <u>METERS/FEET</u>	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS.
00 0.0	21.5	30.5	3.9	7.71	
01 3.3	21.5	31.0	4.0	7.69	
02 6.6	21.2	31.1	3.5	7.63	

DATE: JUL 21, 1978 TIME: 1050

STATION: MDR11

DEPTH <u>METERS/FEET</u>	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS.
00 0.0	21.3	30.9	6.4	8.03	
01 3.3	21.3	31.0	7.2	8.06	
02 6.6	20.9	31.2	6.2	8.08	
03 9.8	20.6	31.2	6.1	8.09	
04 13.1	20.3	31.3	5.4	8.09	

DATE: AUG 18. 1978

TIME: 0840

STATION: MDR1

DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH	H ION CONC	TURBIDITY
						% TRANS.
00 0.0	19.2	30.9	8.5	8.21		62.0
01 3.3	19.3	31.9	9.1	8.22		66.0
02 6.6	19.3	31.0	9.7	8.23		72.0
03 9.8	19.1	31.1	10.7	8.23		72.0
04 13.1	19.0	31.1	11.4	8.24		82.0
05 16.4	18.2	31.3	12.5	8.24		86.0
06 19.7	14.0	33.0	15.2	8.14		83.0
07 23.0	13.7	31.9	15.9	8.12		81.0
08 26.2	13.7	32.0	16.4	8.11		70.0

DATE: AUG 18, 1978

TIME: 0848

STATION: MDR2

DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH	H ION CONC	TURBIDITY
						% TRANS.
00 0.0	18.8	30.2	8.4	8.25		37.0
01 3.3	19.0	30.5	8.9	8.25		60.0
02 6.6	18.9	31.8	9.8	8.24		70.0
03 9.8	18.1	31.1	11.0	8.22		72.0
04 13.1	17.8	31.2	11.8	8.21		74.0
05 16.4	17.3	31.3	12.8	8.19		74.0
06 19.7	17.1	31.5	13.5	8.8		75.0

DATE: AUG 18, 1978

TIME: 0900

STATION: MDR3

DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH	H ION CONC	TURBIDITY
						% TRANS.
00 0.0	19.4	29.9	7.1	8.26		58.0
01 3.3	19.1	30.6	7.2	8.24		67.0
02 6.6	18.6	31.0	7.9	8.24		73.0
03 9.8	18.4	31.2	8.4	8.24		74.0
04 13.1	18.2	31.3	9.2	8.23		77.0
05 16.4	18.2	31.2	9.9	8.23		77.0
06 19.7	18.1	31.3	10.7	8.23		78.0
07 23.0	18.0	31.3	11.5	8.22		

DATE: AUG 18, 1978 TIME: 0917

STATION: MDR4

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	O/00	PPM	H ION CONC	% TRANS.
00	0.0	20.2	30.4	6.8	8.23	59.0
01	3.3	20.2	30.8	7.1	8.22	61.0
02	6.6	19.2	31.2	8.4	8.21	64.0
03	9.8	18.4	31.4	8.7	8.20	68.0
04	13.1	18.5	31.2	9.6	8.20	68.0
05	16.4	18.4	31.2	9.9	8.19	66.0
06	19.7	18.3	31.3	10.4	8.20	65.0

DATE: AUG 18, 1978 TIME: 0928

STATION: MDR5

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	O/00	PPM	H ION CONC	% TRANS.
00	0.0	21.0	30.4	6.2	8.23	62.0
01	3.3	21.1	30.7	7.0	8.20	67.0
02	6.6	20.9	30.7	6.9	8.18	68.0
03	9.8	20.7	30.9	6.7	8.17	67.0
04	13.1	20.2	31.1	7.2	8.17	65.0
05	16.4	19.4	31.5	7.7	8.16	56.0
06	19.7	19.3	31.3	6.8	8.15	

DATE: AUG 18, 1978 TIME: 0940

STATION: MDR6

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	O/00	PPM	H ION CONC	% TRANS.
00	0.0	21.1	30.3	6.8	8.41	56.0
01	3.3	21.2	30.5	6.7	8.31	65.0
02	6.6	21.2	30.5	6.7	8.28	72.0
03	9.8	21.0	30.8	7.3	8.20	73.0
04	13.1	20.8	31.0	7.3	8.15	30.0

DATE: AUG 18, 1978

TIME: 1055

STATION: MDR7

DEPTH METERS/FEET		TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	21.8	30.5	6.5	8.12	57.0
01	3.3	21.8	30.8	7.1	8.12	62.0
02	6.6	21.7	31.0	7.3	8.11	63.0
03	9.8	21.1	31.2	8.3	8.12	58.0
04	13.1	20.6	31.3	8.8	8.11	55.0

DATE: AUG 18, 1978

TIME: 1000

STATION: MDR8

DEPTH METERS/FEET		TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	21.7	30.4	6.4	8.47	63.0
01	3.3	21.8	30.6	6.3	8.36	66.0
02	6.6	21.8	30.7	6.8	8.28	66.0
03	9.8	21.8	30.9	7.2	8.23	67.0
04	13.1	21.8	31.0	8.0	8.21	66.0

DATE: AUG 18, 1978

TIME: 1040

STATION: MDR9

DEPTH METERS/FEET		TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	21.6	30.2	6.7	8.26	52.0
01	3.3	21.7	30.5	6.8	8.19	56.0
02	6.6	21.3	31.8	6.7	8.15	57.0

DATE: AUG 18, 1978 TIME: 1015

STATION: MDR10

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	O/00	PPM	H ION CONC	% TRANS
00	0.0	22.2	30.8	6.3	8.17	62.0
01	3.3	22.2	30.7	6.3	8.12	67.0
02	6.6	22.2	30.9	6.2	8.10	63.0
03	9.8	22.2	31.1	6.5	8.09	63.0
05	13.1	21.9	31.2	6.6	8.08	54.0

DATE: AUG 18, 1978 TIME: 1030

STATION: MDR11

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	O/00	PPM	H ION CONC	% TRANS
00	0.0	21.7	30.5	5.6	8.16	52.0
01	3.3	21.8	30.8	5.7	8.15	59.0
02	6.6	21.4	31.2	6.1	8.15	61.0
03	9.8	21.1	31.2	6.8	8.14	54.0
04	13.1	20.8	31.3	7.5	8.14	55.0

DATE: AUG 18, 1978 TIME: 1128

STATION: MDR12

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	O/00	PPM	H ION CONC	% TRANS
00	0.0	19.6	31.2	6.1	8.27	
01	3.3	19.3	31.3	6.1	8.23	
02	6.6	19.1	31.3	6.9	8.21	
03	9.8	18.7	31.5	8.4	8.20	

DATE: AUG 18, 1978 TIME: 1110

STATION: MDR13

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	O/00	PPM	H ION CONC	% TRANS
00	0.0	22.3	30.6	5.1	8.27	
01	3.3	22.3	30.8	5.1	8.15	
02	6.6	22.3	30.9	3.2	8.01	

DATE: SEP 21, 1978

TIME: 0840

STATION: MDR1

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	PPM	H ION CONC	<u>% TRANS.</u>
00	0.0	19.0	30.5	6.7	7.74	81.0
01	3.3	19.0	30.0	6.8	7.79	85.0
02	6.6	18.7	30.7	6.5	7.88	86.0
03	9.8	18.6	31.1	6.6	7.93	88.0
04	13.1	18.5	31.2	6.7	7.97	90.0
05	16.4	18.1	31.3	6.2	8.00	92.0
06	19.7	16.8	31.5	6.5	8.03	93.0
07	23.0	16.7	31.6	6.6	8.04	92.0
08	26.2	16.7	31.4	6.7	8.06	

DATE: SEP 21, 1978

TIME: 0900

STATION: MDR2

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	PPM	H ION CONC	<u>% TRANS.</u>
00	0.0	18.9	30.8	7.6	8.06	90.0
01	3.3	18.9	30.8	6.7	8.09	92.0
02	6.6	18.9	30.8	6.9	8.13	92.0
03	9.8	18.9	30.9	7.0	8.15	92.0
04	13.1	18.7	31.1	6.7	8.15	92.0
05	16.4	18.7	31.1	6.7	8.16	94.0

DATE: SEP 21, 1978

TIME: 0930

STATION: MDR3

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	PPM	H ION CONC	<u>% TRANS.</u>
00	0.0	19.6	31.0	5.5	8.09	88.0
01	3.3	19.5	31.0	5.8	8.09	82.0
02	6.6	19.4	31.1	5.9	8.10	83.0
03	9.8	19.3	31.1	6.1	8.10	86.0
04	13.1	19.2	31.2	7.2	8.10	86.0
05	16.4	19.1	31.2	6.7	8.10	87.0
06	19.7	18.6	31.3	6.2	8.11	84.0
07	23.0	18.4	31.3	5.8	8.10	79.0

DATE: SEP 21, 1978

TIME: 0951

STATION: MDR4

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	19.7	31.2	6.4	8.14	88.0
01	3.3	19.7	31.2	6.5	8.13	84.0
02	6.6	19.8	31.2	6.6	8.11	87.0
03	9.8	19.5	31.2	6.6	8.10	87.0
04	13.1	19.0	31.5	6.5	8.10	84.0
05	16.4	18.8	31.3	6.9	8.11	83.0

DATE: SEP 21, 1978

TIME: 1009

STATION: MDR5

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	20.4	30.9	6.3	8.06	77.0
01	3.3	20.5	30.1	6.0	8.05	78.0
02	6.6	20.4	31.1	5.6	8.03	80.0
03	9.8	20.1	31.2	5.1	8.03	82.0
04	13.1	18.9	31.8	5.3	8.05	81.0
05	16.4	18.4	31.4	5.3	8.07	79.0

DATE: SEP 21, 1978

TIME: 1037

STATION: MDR6

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	20.8	31.2	5.2	8.01	88.0
01	3.3	20.7	31.3	5.2	8.00	92.0
02	6.6	20.5	31.3	5.6	8.00	91.0
03	9.8	19.9	31.3	5.3	7.99	86.0
04	13.1	19.4	31.4	5.4	8.01	80.0

DATE: SEP 21, 1978 TIME: 1140

STATION: MDR7

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	PPM	H ION CONC	<u>% TRANS</u>
00	0.0	21.1	33.4	4.9	8.02	77.0
01	3.3	20.8	31.6	4.4	7.95	81.0
02	6.6	20.0	31.6	4.7	7.95	84.0
03	9.8	19.7	31.7	4.7	7.97	76.0
04	13.1	19.4	31.4	4.5	7.98	74.0
05	16.4	19.4	31.4	4.6	7.97	

DATE: SEP 21, 1978 TIME: 1055

STATION: MDR8

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	PPM	H ION CONC	<u>% TRANS</u>
00	0.0	21.2	31.7	4.6	7.98	88.0
01	3.3	21.1	31.4	4.7	7.97	82.0
02	6.6	20.8	31.4	4.6	7.97	85.0
03	9.8	20.8	31.3	4.5	7.97	84.0
04	13.1	20.2	31.5	4.8	7.98	83.0
05	16.4	19.8	31.4	4.9	8.01	81.0

DATE: SEP 21, 1978 TIME: 1125

STATION: MDR9

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	PPM	H ION CONC	<u>% TRANS</u>
00	0.0	21.4	30.8	4.2	8.05	89.0
01	3.3	21.4	31.0	4.4	8.04	88.0
02	6.6	21.4	31.0	4.7	8.03	90.0
03	9.8	20.6	31.2	4.4	8.03	86.0
04	13.1	19.5	31.4	4.2	7.94	54.0

DATE: SEP 21, 1978

TIME: 1109

STATION: MDR10

	<u>DEPTH</u> <u>METERS/FEET</u>	<u>TEMPERATURE</u> °C	<u>SALINITY</u> 0/00	<u>D.02</u> PPM	<u>PH</u> H ION CONC	<u>TURBIDITY</u> % TRANS
00	0.0	21.7	30.4	5.7	8.07	92.0
01	3.3	20.9	31.4	4.3	8.04	92.0
02	6.6	20.7	31.3	4.3	8.01	92.0
03	9.8	19.9	31.4	4.6	8.02	88.0
04	13.1	19.7	31.3	4.4	8.04	84.0

DATE: SEP 21, 1978

TIME: 1118

STATION: MDR11

	<u>DEPTH</u> <u>METERS/FEET</u>	<u>TEMPERATURE</u> °C	<u>SALINITY</u> 0/00	<u>D.02</u> PPM	<u>PH</u> H ION CONC	<u>TURBIDITY</u> % TRANS
00	0.0	20.9	31.1	5.1	8.05	91.0
01	3.3	21.1	31.1	4.9	8.04	88.0
02	6.6	20.9	31.1	5.2	8.03	87.0
03	9.8	20.4	31.3	5.7	8.05	81.0
04	13.1	19.7	31.6	6.1	8.08	81.0
05	16.4	19.2	31.4	6.4	8.10	78.0

DATE: SEP 21, 1978

TIME: 1425

STATION: MDR12

	<u>DEPTH</u> <u>METERS/FEET</u>	<u>TEMPERATURE</u> °C	<u>SALINITY</u> 0/00	<u>D.02</u> PPM	<u>PH</u> H ION CONC	<u>TURBIDITY</u> % TRANS
00	0.0	19.8	31.3	5.3	8.17	
01	3.3	19.4	30.7	6.0	8.16	
02	6.6	19.4	30.8	5.7	8.17	
03	9.8	19.2	31.0	5.6	8.17	
04	13.1	19.1	31.3	6.4	8.17	

DATE: SEP 21, 1978

TIME: 1400

STATION: MDR13

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/‰	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	21.2	30.8	3.1	8.08	
01	3.3	21.2	31.0	3.2	8.08	
02	6.6	20.9	31.1	3.1	8.02	
03	9.8	20.4	31.2	1.7	7.9	

DATE: OCT 20, 1978 TIME: 0906  
 STATION: MDR1

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	0/00	PPM	H ION CONC	<u>% TRANS.</u>
00	0.0	19.2	31.0	7.0	7.78	85.0
01	3.3	19.2	31.0	6.2	7.82	86.0
02	6.6	19.2	31.1	6.5	7.91	88.0
03	9.8	19.1	31.2	6.6	7.93	88.0
04	13.1	19.1	31.2	6.8	8.00	90.0
05	16.4	19.1	31.2	6.3	8.01	96.0
06	19.7	19.1	31.2	6.8	8.06	93.0
07	23.0	19.0	31.2	7.0	8.06	92.0

DATE: OCT 20, 1978 TIME: 0915  
 STATION: MDR2

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	0/00	PPM	H ION CONC	<u>% TRANS.</u>
00	0.0	19.0	30.9	6.0	8.38	88.0
01	3.3	18.9	31.6	5.6	8.26	87.0
02	6.6	18.9	31.1	5.6	8.25	87.0
03	9.8	19.0	31.0	5.6	8.20	86.0
04	13.1	18.8	31.2	5.6	8.19	86.0
05	16.4	18.7	31.2	5.6	8.18	86.0
06	19.7	18.6	31.3	5.4	8.16	84.0
07	23.0	18.5	31.3	5.0	8.15	83.0

DATE: OCT 20, 1978 TIME: 0938  
 STATION: MDR3

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	0/00	PPM	H ION CONC	<u>% TRANS.</u>
00	0.0	20.0	31.0	5.8	8.08	78.0
01	3.3	20.1	31.0	5.2	8.08	78.0
02	6.6	20.0	31.1	5.5	8.08	78.0
03	9.8	20.0	31.1	5.4	8.08	79.0
04	13.1	19.9	31.1	5.7	8.08	80.0

DATE: OCT 20, 1978

TIME: 0953

STATION: MDR4

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	O/00	PPM	H ION CONC	% TRANS.
00	0.0	20.1	31.0	6.4	8.22	77.0
01	3.3	20.2	31.1	5.6	8.21	77.0
02	6.6	20.1	31.1	6.6	8.13	77.0
03	9.8	19.9	31.1	6.8	8.13	77.0
04	13.1	19.8	31.3	6.0	8.12	77.0
05	16.4	19.5	31.2	6.6	8.12	76.0
06	19.7	19.2	31.6	6.2	8.14	74.0

DATE: OCT 20, 1978

TIME: 1004

STATION: MDR5

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	O/00	PPM	H ION CONC	% TRANS.
00	0.0	20.5	30.8	3.9	8.24	78.0
01	3.3	20.4	31.1	4.7	8.23	78.0
02	6.6	20.3	31.2	4.9	8.20	78.0
03	9.8	20.0	31.3	4.4	8.17	76.0
04	13.1	19.7	31.3	4.9	8.16	75.0
05	16.4	19.4	31.3	5.2	8.15	74.0
06	19.7	19.3	31.3	5.2	8.16	72.0
07	23.0	19.3	31.3	5.4	8.16	72.0

DATE: OCT 20, 1978

TIME: 1018

STATION: MDR6

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	O/00	PPM	H ION CONC	% TRANS.
00	0.0	20.5	30.0	3.9	8.02	80.0
01	3.3	20.5	30.6	3.8	8.01	78.0
02	6.6	20.4	31.0	4.0	8.01	80.0
03	9.8	20.4	31.1	3.9	8.01	77.0
04	13.1	20.4	31.1	3.9	8.01	70.0

DATE: OCT 20, 1978

TIME: 1209

STATION: MDR7

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	O/00	PPM	H ION CONC	% TRANS
00	0.0	20.7	31.1	5.4	8.20	81.0
01	3.3	20.8	31.2	5.4	8.23	82.0
02	6.6	20.7	31.1	4.0	8.19	81.0
03	9.8	20.3	31.4	4.0	8.15	65.0
04	13.1	20.1	31.3	3.6	8.15	62.0
05	16.4	20.1	31.4	3.5	8.12	62.0

DATE: OCT 20, 1978

TIME: 1038

STATION: MDR8

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	O/00	PPM	H ION CONC	% TRANS
00	0.0	20.8	31.9	3.8	8.21	81.0
01	3.3	20.8	31.0	3.9	8.18	79.0
02	6.6	20.8	31.1	3.3	8.11	79.0
03	9.8	20.7	31.1	3.9	8.10	79.0
04	13.1	20.7	31.2	4.6	8.08	78.0

DATE: OCT 20, 1978

TIME: 1120

STATION: MDR9

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		°C	O/00	PPM	H ION CONC	% TRANS
00	0.0	20.6	31.0	5.0	8.24	58.0
01	3.3	20.7	31.0	5.1	8.23	59.0
02	6.6	20.7	31.0	5.4	8.15	59.0
03	9.8	20.6	31.0	5.4	8.13	50.0

DATE: OCT 20, 1978 TIME: 1057

STATION: MDR10

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/‰	D.O. PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	20.8	30.8	4.0	8.33	76.0
01	3.3	20.8	30.9	4.0	8.13	81.0
02	6.6	20.8	31.0	3.6	8.12	80.0
03	9.8	20.7	31.0	3.9	8.07	76.0
04	13.1	20.7	31.1	3.4	8.06	77.0

DATE: OCT 20, 1978 TIME: 1110

STATION: MDR11

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/‰	D.O. PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	20.7	31.0	5.0	8.24	80.0
01	3.3	20.7	31.0	4.8	8.16	78.0
02	6.6	20.6	31.1	5.1	8.15	75.0
03	9.8	20.6	31.2	5.2	8.14	75.0
04	13.1	20.3	31.3	5.0	8.13	76.0
05	16.4	20.2	31.2	5.0	8.02	77.0

DATE: OCT 20, 1978 TIME: 1300

STATION: MDR12

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/‰	D.O. PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	19.9	28.3	4.8*	8.23	
01	3.3	19.7	29.1	5.3*	8.24	
02	6.6	19.3	30.8	5.8*	8.22	
03	9.8	19.2	30.8	4.9*	8.22	
04	13.1	19.2	31.1	4.0*	8.20	

\* D.O. WAS ERRATIC DURING THIS SAMPLING

DATE: OCT 20, 1978

TIME: 1330

STATION: MDR13

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H. ION CONC.	TURBIDITY % TRANS
00	0.0	21.0	30.8	3.4	8.05	
01	3.3	21.0	30.9	3.2	8.05	
02	6.6	20.8	31.0	3.0	8.03	
03	9.8	20.8	31.0	2.4	8.02	

DATE: NOV 17, 1978

TIME: 0833

STATION: MDR1

METERS/FEET	DEPTH	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H. ION CONC	TURBIDITY % TRANS
00	0.0	17.0	31.2	4.6	7.97	92.0
01	3.3	17.2	32.0	6.1	7.97	93.0
02	6.6	17.2	32.1	6.2	7.98	94.0
03	9.8	17.2	32.3	5.7	8.07	93.0
04	13.1	17.2	32.3	5.6	7.98	93.0
05	16.4	17.3	32.3	5.2	7.98	93.0
06	19.7	17.3	32.4	5.0	7.98	93.0
07	23.0	17.3	32.5	5.0	7.98	94.0

DATE: NOV 17, 1978

TIME: 0845

STATION: MDR2

METERS/FEET	DEPTH	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H. ION CONC	TURBIDITY % TRANS
00	0.0	16.6	31.7	5.5	7.97	92.0
01	3.3	17.1	31.5	5.5	7.97	92.0
02	6.6	17.2	32.1	5.4	7.98	93.0
03	9.8	17.2	32.3	5.0	7.97	93.0
04	13.1	17.1	32.3	4.7	7.98	92.0
05	16.4	17.0	32.3	4.2	7.97	91.0

DATE: NOV 17, 1978

TIME: 0900

STATION: MDR3

METERS/FEET	DEPTH	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H. ION CONC	TURBIDITY % TRANS
00	0.0	16.9	31.9	4.5	8.22	91.0
01	3.3	17.0	32.3	5.1	8.18	90.0
02	6.6	17.0	32.3	5.4	8.12	91.0
03	9.8	16.9	32.3	5.0	8.08	90.0
04	13.1	16.9	32.3	4.4	8.06	85.0
05	16.4	16.9	32.4	4.0	8.05	82.0
06	19.7	16.9	32.4	3.7	8.03	81.0

DATE: NOV 17, 1978

TIME: 0918

STATION: MDR4

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.O2</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	16.5	31.9	5.3	8.21	79.0
01	3.3	16.6	32.0	5.4	8.18	81.0
02	6.6	16.6	32.3	5.4	8.06	82.0
03	9.8	16.6	32.3	5.5	8.05	81.0
04	13.1	16.6	32.3	5.5	8.02	82.0
05	16.5	16.7	32.4	5.5	8.02	81.0
06	19.7	16.7	32.3	5.6	8.02	76.0

DATE: NOV 17, 1978

TIME: 0931

STATION: MDR5

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.O2</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	16.4	31.8	5.0	7.93	77.0
01	3.3	16.5	32.1	5.0	7.93	78.0
02	6.6	16.4	32.2	5.0	7.93	78.0
03	9.8	16.4	32.2	5.0	7.93	78.0
04	13.1	16.5	32.3	5.0	7.93	79.0
05	16.4	16.5	32.2	4.5	7.93	79.0

DATE: NOV 17, 1978

TIME: 0843

STATION: MDR6

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.O2</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	16.5	32.0	3.6	8.40	82.0
01	3.3	16.4	32.1	3.6	8.33	82.0
02	6.6	16.4	32.2	3.7	8.12	81.0
03	9.8	16.4	32.3	3.6	8.10	81.0

DATE: NOV 17, 1978

TIME: 1103

STATION: MDR7

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.O2</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	16.5	32.1	2.9	8.12	77.0
01	3.3	16.5	32.2	2.5	7.94	74.0
02	6.6	16.5	32.1	3.3	7.96	76.0
03	9.8	16.4	32.3	3.4	7.93	76.0

DATE: NOV 17, 1978

TIME: 1004

STATION: MDR8

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.O2</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	16.2	31.9	4.7	7.88	85.0
01	3.3	16.1	31.9	4.1	7.87	86.0
02	6.6	16.1	32.2	4.2	7.86	85.0
03	9.8	16.1	32.1	4.1	7.86	84.0
04	13.1	16.0	32.3	3.9	7.88	84.0

DATE: NOV 17, 1978

TIME: 1045

STATION: MDR9

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.O2</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	16.7	31.8	3.8	8.18	75.0
01	3.3	16.8	31.9	3.6	8.05	74.0
02.	6.6	16.7	32.1	3.5	7.94	73.0

DATE: NOV 17, 1978

TIME: 1021

STATION: MDR10

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.O2</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	16.6	31.7	3.4	8.08	80.0
01	3.3	16.6	32.3	3.7	8.06	81.0
02	6.6	16.5	32.1	3.7	7.98	81.0
03	9.8	16.6	32.3	3.3	7.97	81.0

DATE: NOV 17, 1978

TIME: 1035

STATION: MDR11

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	TURBIDITY
<u>METERS/FEET</u>		°C	0/00	PPM	H ION CONC	% TRANS
00	0.0	16.7	31.8	3.8	8.15	86.0
01	3.3	16.4	32.1	3.6	8.07	84.0
02	6.6	16.4	32.3	3.6	8.01	85.0
03	9.8	16.4	32.3	3.8	8.00	83.0
04	13.1	16.4	32.1	4.0	7.98	84.0

DATE: NOV 17, 1978

TIME: 1135

STATION: MDR12

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	TURBIDITY
<u>METERS/FEET</u>		°C	0/00	PPM	H ION CONC	% TRANS
00	0.0	16.5	28.9	5.7	8.07	
01	3.3	17.4	31.9	5.4	8.04	
02	6.6	17.5	32.3	5.1	8.07	
03	9.8	17.5	32.3	5.0	8.07	

DATE: NOV 17, 1978

TIME: 1155

STATION: MDR13

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	TURBIDITY
<u>METERS/FEET</u>		°C	0/00	PPM	H ION CONC	% TRANS
00	0.0	16.3	31.8	3.4	8.02	
01	3.3	16.3	32.2	1.5	7.97	
02	6.6	16.2	32.1	1.4	7.89	
03	9.8	16.3	32.0	1.5	7.77	

DATE: DEC 15, 1978

TIME: 0905

STATION: MDR1

METERS/FEET	DEPTH	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	14.4	32.3	1.8	8.46	88.0
01	3.3	14.4	32.9	1.8	8.42	92.0
02	6.6	14.4	33.1	1.8	8.32	93.0
03	9.8	14.4	33.3	1.9	8.31	94.0
04	13.1	14.4	33.3	1.9	8.26	94.0
05	16.4	14.4	33.4	1.9	8.25	95.0
06	19.7	14.3	33.4	2.0	8.23	95.0
07	23.0	14.3	33.4	2.0	8.23	94.0
08	26.2	14.3	33.5	2.1	8.22	93.0
09	29.6	14.2	33.4	2.1	8.21	92.0

DATE: DEC 15, 1978

TIME: 0925

STATION: MDR2

METERS/FEET	DEPTH	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	14.1	32.7	2.1	8.10	89.0
01	3.3	14.2	33.3	1.7	8.11	91.5
02	6.6	14.3	33.3	1.7	8.12	92.0
03	9.8	14.3	33.4	1.7	8.12	92.5
04	13.1	14.3	33.4	1.7	8.11	92.5
05	16.4	14.4	33.4	1.7	8.11	90.0
06	19.7	14.4	33.4	1.7	8.11	90.0

DATE: DEC 15, 1978

TIME: 0949

STATION: MDR3

METERS/FEET	DEPTH	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	14.2	32.9	1.4	8.15	87.0
01	3.3	14.2	33.2	1.4	8.14	86.0
02	6.6	14.3	33.2	1.4	8.10	87.0
03	9.8	14.3	33.3	1.5	8.09	87.0
04	13.1	14.3	33.4	1.5	8.07	88.0
05	16.4	14.3	33.4	1.5	8.07	87.0
06	19.7	14.2	33.5	1.5	8.06	87.0
07	23.0	14.2	33.5	1.6	8.05	86.0
08	26.2	14.1	33.6	1.6	8.05	85.0

DATE: DEC 15, 1978 TIME: 1008

STATION: MDR4

<u>DEPTH METERS/FEET</u>		<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.O2 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00	0.0	13.6	33.1	1.4	8.18	82.0
01	3.3	13.5	33.3	1.4	8.14	83.0
02	6.6	13.5	33.3	1.4	8.07	87.0
03	9.8	13.4	33.4	1.5	8.06	88.0
04	13.1	13.3	33.5	1.5	8.02	88.0
05	16.4	13.2	33.5	1.5	8.00	86.0

DATE: DEC 15, 1978 TIME: 1023

STATION: MDR5

<u>DEPTH METERS/FEET</u>		<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.O2 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00	0.0	13.2	33.0	1.4	8.60	80.0
01	3.3	13.3	33.3	1.4	8.35	84.0
02	6.6	13.2	33.3	1.4	8.21	84.0
03	9.8	13.2	33.3	1.4	8.19	84.0
04	13.1	13.1	33.4	1.4	8.17	83.0
05	16.4	12.9	33.5	1.5	8.14	82.0

DATE: DEC 15, 1978 TIME: 1145

STATION: MDR6

<u>DEPTH METERS/FEET</u>		<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.O2 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00	0.0	13.0	33.6	1.2	8.33	86.0
01	3.3	12.9	33.5	1.2	7.77	85.0
02	6.6	12.9	33.4	1.2	7.75	85.0
03	9.8	12.8	33.4	1.3	7.74	84.0

DATE: DEC 15, 1978 TIME: 1215

STATION: MDR7

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>‰</u>	PPM	H <sub>+</sub> ION CONC	<u>% TRANS</u>
00	0.0	12.9	33.9	1.1	7.78	80.0
01	3.3	12.8	33.6	1.2	7.74	80.0
02	6.6	12.8	33.5	1.2	7.68	78.0
03	9.8	12.8	33.3	1.2	7.68	71.0
04	13.1	12.8	33.3	1.2	7.71	62.0

DATE: DEC 15, 1978 TIME: 1019

STATION: MDR8

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>‰</u>	PPM	H <sub>+</sub> ION CONC	<u>% TRANS</u>
00	0.0	12.7	33.9	1.3	7.85	82.0
01	3.3	12.6	33.6	1.3	7.81	81.0
02	6.6	12.6	33.6	1.3	7.70	80.0
03	9.8	12.5	33.5	1.3	7.68	82.0
04	13.1	12.4	33.5	1.3	7.66	82.0

DATE: DEC 15, 1978 TIME: 1306

STATION: MDR9

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>‰</u>	PPM	H <sub>+</sub> ION CONC	<u>% TRANS</u>
00	0.0	13.2	33.3	1.1	7.94	80.0
01	3.3	13.1	33.2	1.1	7.91	81.0
02	6.6	13.0	33.3	1.1	7.84	79.0
03	9.8	12.9	33.3	1.1	7.84	79.0

DATE: DEC 15, 1978 TIME: 1330

STATION: MDR10

<u>DEPTH METERS/FEET</u>		<u>TEMPERATURE °C</u>	<u>SALINITY 0/‰</u>	<u>D.02 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00	0.0	13.0	33.0	1.1	8.37	80.0
01	3.3	12.7	33.0	1.1	8.30	82.0
02	6.6	12.7	33.2	1.1	8.10	81.0
03	9.8	12.7	33.2	1.1	8.07	81.0

DATE: DEC 15, 1978 TIME: 1315

STATION: MDR11

<u>DEPTH METERS/FEET</u>		<u>TEMPERATURE °C</u>	<u>SALINITY 0/‰</u>	<u>D.02 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00	0.0	13.0	33.2	1.1	8.09	82.0
01	3.3	12.9	33.2	1.1	8.07	81.0
02	6.6	12.8	33.3	1.1	8.00	81.0
03	9.8	12.7	33.3	1.2	7.99	80.0

DATE: DEC 15, 1978 TIME: 1400

STATION: MDR12

<u>DEPTH METERS/FEET</u>		<u>TEMPERATURE °C</u>	<u>SALINITY 0/‰</u>	<u>D.02 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00	0.0	12.8	33.2	1.2	8.40	
01	3.3	12.6	33.0	1.2	8.14	
02	6.6	12.6	32.9	1.2	8.01	

DATE: DEC 15, 1978 TIME: 1430

STATION: MDR13

<u>DEPTH METERS/FEET</u>		<u>TEMPERATURE °C</u>	<u>SALINITY 0/‰</u>	<u>D.02 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00	0.0	14.4	31.8	3.2	8.02	
01	3.3	14.4	32.0	2.1	8.00	
02	6.6	14.4	32.4	1.9	7.93	

DATE: JANUARY 19, 1979 TIME: 0832

STATION: MARINA DEL REY - STATION 1

DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00 0.0	13.1	38.0	9.7	8.19	72.5
01 3.3	13.2	30.0	8.6	8.15	78.0
02 6.6	13.7	31.0	8.7	8.12	83.0
03 9.8	13.8	31.6	8.8	8.13	90.0
04 13.1	14.0	31.9	9.0	8.13	94.0
05 16.4	14.0	32.0	9.0	8.14	92.0
06 19.7	14.0	32.1	8.9	8.13	85.5
07 23.0	14.0	32.2	8.9	8.13	57.0
08 26.2	14.0	32.2	8.7	8.13	48.0

DATE: JANUARY 19, 1979 TIME: 0845

STATION: MARINA DEL REY - STATION 2

DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00 0.0	12.8	28.7	9.7	8.19	73.0
01 3.3	12.9	28.9	9.2	8.15	75.0
02 6.6	13.2	29.8	8.9	8.12	12.0
03 9.8	13.3	31.1	8.8	8.11	75.0
04 13.1	13.3	31.3	9.0	8.12	75.0
05 16.4	13.5	31.5	9.0	8.11	74.0
06 19.7	13.6	31.6	9.0	8.10	67.0

DATE: JANUARY 19, 1979 TIME: 0901

STATION: MARINA DEL REY - STATION 3

DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00 0.0	12.8	30.6	10.7	8.16	83.5
01 3.3	12.9	30.5	10.9	8.15	83.5
02 6.6	13.7	30.2	3.0	8.14	73.0

DATE: JANUARY 19, 1979 TIME: 0914

STATION: MARINA DEL REY - STATION 4

<u>DEPTH METERS/FEET</u>		<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.02 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00	0.0	13.4	30.4	3.8	8.67	82.0
01	3.3	13.4	30.8	3.3	8.56	84.0
02	6.6	13.7	30.9	3.3	8.31	85.0
03	9.8	13.8	31.4	3.2	8.26	80.0
04	13.1	13.8	31.5	2.9	8.21	76.0
05	16.4	14.0	31.7	3.0	8.20	74.5

DATE: JANUARY 19, 1979 TIME: 0925

STATION: MARINA DEL REY - STATION 5

<u>DEPTH METERS/FEET</u>		<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.02 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00	0.0	12.9	30.7	3.4	8.15	77.5
01	3.3	13.0	30.7	3.2	8.14	86.0
02	6.6	13.0	30.7	3.2	8.12	78.5
03	9.8	14.1	30.5	3.0	8.12	77.5
04	13.1	14.1	31.4	3.0	8.12	78.0
05	16.4	14.1	31.7	3.0	8.13	76.0

DATE: JANUARY 19, 1979 TIME: 0940

STATION: MARINA DEL REY - STATION 6

<u>DEPTH METERS/FEET</u>		<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.02 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00	0.0	12.6	30.5	9.0	8.50	89.5
01	3.3	12.5	30.5	8.0	8.40	90.0
02	6.6	13.5	29.7	7.7	8.21	89.0
03	9.8	14.0	30.9	6.3	8.17	84.0

DATE: JANUARY 19, 1979 TIME: 1102

STATION: MARINA DEL REY - STATION 7

DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00 0.0	14.1	30.9	9.2	8.77	80.0
01 3.3	14.0	31.1	8.9	8.55	80.0
02 6.6	14.2	31.1	8.8	8.29	70.0
03 9.8	14.3	31.4	8.5	8.20	55.0
04 13.1	14.3	31.6	8.4	8.12	50.0

DATE: JANUARY 19, 1979 TIME: 1002

STATION: MARINA DEL REY - STATION 8

DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00 0.0	12.6	30.0	9.6	8.25	82.0
01 3.3	12.5	30.2	9.0	8.21	89.0
02 6.6	13.5	29.5	8.9	8.14	76.0
03 9.8	14.0	30.7	8.3	8.12	75.0
04 13.1	14.0	31.2	7.7	8.06	77.0

DATE: JANUARY 19, 1979 TIME: 1042

STATION: MARINA DEL REY - STATION 9

DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00 0.0	14.1	30.4	8.0	8.88	71.0
01 3.3	14.2	30.6	7.1	8.63	74.5
02 6.6	14.3	30.8	6.8	8.34	57.0

DATE: JANUARY 19, 1979 TIME: 1019

STATION: MARINA DEL REY - STATION 10

DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00 0.0	13.8	29.6	10.2	8.11	77.0
01 3.3	13.6	29.8	12.3	8.08	80.0
02 6.6	14.0	30.4	10.7	8.03	80.0
03 9.8	14.1	31.0	11.4	8.01	77.0
04 13.1	14.1	31.4	11.4	7.98	69.0

DATE: JANUARY 19, 1979 TIME: 1031

STATION: MARINA DEL REY - STATION 11

DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00 0.0	13.7	30.6	8.4	8.81	84.5
01 3.3	13.8	30.7	7.8	8.65	83.0
02 6.6	14.0	31.1	7.7	8.25	81.0
03 9.8	14.1	31.1	7.7	8.21	75.5
04 13.1	14.1	31.5	8.0	8.17	75.0

DATE: JANUARY 19, 1979 TIME: 1125

STATION: MARINA DEL REY - STATION 12

DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00 0.0	13.1	21.3	8.0	8.03	
01 3.3	13.5	24.0	8.3	7.99	
02 6.6	13.8	29.9	8.5	8.04	
03 9.8	13.8	30.8	8.6	8.03	

DATE: JANUARY 19, 1979 TIME: 1150

STATION: MARINA DEL REY - STATION 13

DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00 0.0	13.6	22.9	7.7	7.92	
01 3.3	13.5	36.7	8.8	7.88	
02 6.6	13.9	29.3	6.2	7.87	

DATE: FEBRUARY 23, 1979 TIME: 0838  
 STATION: MARINA DEL REY - STATION 1

<u>DEPTH</u>	<u>METERS/FEET</u>	<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
		°C	O/00	PPM	H ION CONC	% TRANS
00	0.0	12.2	15.0	10.0	8.19	12.0
01	3.3	14.1	20.0	8.0	8.10	54.0
02	6.6	13.7	31.5	8.5	8.13	64.0
03	9.8	13.7	32.6	8.7	8.14	66.0
04	13.1	13.6	33.0	8.7	8.17	59.5
05	16.4	13.6	33.2	8.5	8.18	58.0
06	19.7	13.5	33.4	8.5	8.19	55.0
07	23.0	13.5	33.4	8.4	8.18	44.0

DATE: FEBRUARY 23, 1979 TIME: 0851  
 STATION: MARINA DEL REY - STATION 2

<u>DEPTH</u>	<u>METERS/FEET</u>	<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
		°C	O/00	PPM	H ION CONC	% TRANS
00	0.0	13.4	27.0	9.2	8.24	35.0
01	3.3	13.6	27.9	9.0	8.23	55.0
02	6.6	14.3	28.5	9.2	8.20	69.0
03	9.8	14.3	31.4	10.2	8.80	71.0
04	13.1	14.0	32.0	9.8	8.21	70.0
05	16.4	13.7	32.7	9.8	8.21	71.5

DATE: FEBRUARY 23, 1979 TIME: 0903  
 STATION: MARINA DEL REY - STATION 3

<u>DEPTH</u>	<u>METERS/FEET</u>	<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
		°C	O/00	PPM	H ION CONC	% TRANS
00	0.0	14.0	30.1	8.6	8.24	54.0
01	3.3	14.2	30.2	8.2	8.23	69.0
02	6.6	14.1	31.7	8.3	8.21	69.0
03	9.8	13.9	32.4	8.2	8.21	67.5
04	13.1	13.9	33.0	8.3	8.22	64.5

DATE: FEBRUARY 23, 1979 TIME: 0919

STATION: MARINA DEL REY - STATION 4

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	TURBIDITY
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	14.0	29.1	8.5	8.23	72.0
01	3.3	14.3	29.3	8.1	8.21	76.5
02	6.6	14.3	30.2	8.4	8.19	72.0
03	9.8	14.2	32.1	8.5	8.19	71.0
04	13.1	14.1	32.4	8.5	8.20	71.5
05	16.4	13.9	32.9	8.6	8.20	66.0

DATE: FEBRUARY 23, 1979 TIME: 0932

STATION: MARINA DEL REY - STATION 5

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	TURBIDITY
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	13.8	28.5	8.3	8.22	69.0
01	3.3	14.7	28.5	8.1	8.20	69.0
02	6.6	14.6	30.4	7.9	8.17	65.0
03	9.8	14.2	32.1	8.2	8.17	62.0
04	13.1	14.1	32.5	8.1	8.20	69.0
05	16.4	14.0	32.9	8.6	8.20	69.5

DATE: FEBRUARY 23, 1979 TIME: 0945

STATION: MARINA DEL REY - STATION 6

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	TURBIDITY
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	13.6	28.4	8.5	8.24	68.5
01	3.3	14.1	28.6	7.8	8.20	74.5
02	6.6	14.5	31.2	6.5	8.17	73.0
03	9.8	14.3	31.5	6.7	8.16	69.5

DATE: FEBRUARY 23, 1979 TIME: 1110

STATION: MARINA DEL REY - STATION 7

DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00 0.0	14.8	28.5	9.5	8.16	62.0
01 3.3	14.8	29.7	9.0	8.13	64.0
02 6.6	14.3	32.1	9.7	8.13	29.5

DATE: FEBRUARY 23, 1979 TIME: 1005

STATION: MARINA DEL REY - STATION 8

DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00 0.0	14.0	27.0	10.5	8.20	58.0
01 3.3	14.7	27.8	10.5	8.17	71.5
02 6.6	14.8	30.9	11.5	8.15	65.5
03 9.8	14.7	31.0	11.3	8.14	60.5

DATE: FEBRUARY 23, 1979 TIME: 1050

STATION: MARINA DEL REY - STATION 9

DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00 0.0	15.1	28.8	7.6	8.12	75.0
01 3.3	15.1	29.6	7.2	8.10	68.0
02 6.6	14.7	31.6	7.3	8.12	53.0

DATE: FEBRUARY 23, 1979 TIME: 1028

STATION: MARINA DEL REY - STATION 10

DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00 0.0	13.5	18.3	9.2	8.27	17.0
01 3.3	14.5	26.7	8.4	8.13	35.0
02 6.6	14.8	30.7	8.6	8.08	50.0
03 9.8	14.8	32.0	6.3	8.09	54.0
04 13.1	14.8	32.6	5.0	8.07	50.0

DATE: FEBRUARY 23, 1979 TIME: 1040

STATION: MARINA DEL REY - STATION 11

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
	00	0.0	14.8	27.7	8.0	72.0
	01	3.3	15.0	29.0	7.8	74.5
	02	6.6	14.8	30.8	7.2	64.0
	03	9.8	14.3	32.8	7.8	59.0

DATE: FEBRUARY 23, 1979 TIME: 1128

STATION: MARINA DEL REY - STATION 12

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
	00	0.0	12.5	1.2	9.9	8.80
	01	3.3	13.0	18.0	9.7	7.96
	02	6.6	13.7	29.7	9.6	8.10

DATE: FEBRUARY 23, 1979 TIME: 1142

STATION: MARINA DEL REY - STATION 13

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
	00	0.0	12.5	.9	8.6	9.44
	01	3.3	12.4	.7	8.5	9.44

DATE: MARCH 30, 1979

TIME: 0841

STATION: MARINA DEL REY - STATION 1

DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00 0.0	15.2	32.9	7.1	8.28	
01 3.3	15.2	33.0	6.8	8.28	
02 6.6	15.2	33.1	6.9	8.30	
03 9.8	15.2	33.2	6.6	8.30	
04 13.1	15.1	33.3	6.5	8.30	
05 16.4	14.9	33.4	6.3	8.30	
06 19.7	14.9	33.5	6.6	8.29	
07 23.0	14.7	33.6	6.6	8.29	

DATE: MARCH 30, 1979

TIME: 0845

STATION: MARINA DEL REY - STATION 2

DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00 0.0	15.0	31.3	6.6	8.25	
01 3.3	15.1	31.8	6.4	8.23	
02 6.6	15.0	32.5	6.8	8.24	
03 9.8	14.8	33.2	6.3	8.24	
04 13.1	14.8	33.4	6.8	8.25	
05 16.4	14.6	33.5	7.0	8.24	
06 19.7	14.6	33.6	7.1	8.25	

DATE: MARCH 30, 1979

TIME: 0848

STATION: MARINA DEL REY - STATION 3

DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.O2 PPM	PH H ION CONC	TURBIDITY % TRANS
00 0.0	15.4	29.4	4.8	8.68	
01 3.3	15.4	29.7	5.7	8.64	
02 6.6	15.3	30.4	5.6	8.54	

DATE: MARCH 30, 1979 TIME: 0910

STATION: MARINA DEL REY - STATION 4

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	TURBIDITY
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	PPM	H ION CONC	% TRANS
00	0.0	16.0	29.6	6.4	8.68	
01	3.3	16.0	29.8	6.2	8.63	
02	6.6	15.5	31.3	6.5	8.44	
03	9.8	15.0	32.3	6.3	8.43	
04	13.1	14.9	33.0	6.4	8.38	
05	16.4	14.8	33.0	6.4	8.37	
06	19.7	14.8	33.4	6.1	8.34	

DATE: MARCH 30, 1979 TIME: 0923

STATION: MARINA DEL REY - STATION 5

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	TURBIDITY
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	PPM	H ION CONC	% TRANS
00	0.0	16.1	28.9	7.6	8.61	
01	3.3	16.0	29.3	6.4	8.53	
02	6.6	15.6	31.1	5.6	8.40	
03	9.8	15.2	32.8	6.0	8.39	
04	13.1	15.0	33.3	6.4	8.38	
05	16.4	14.7	33.4	6.1	8.37	
06	19.7	14.7	33.6	6.1	8.35	

DATE: MARCH 30, 1979 TIME: 0937

STATION: MARINA DEL REY - STATION 6

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	TURBIDITY
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	PPM	H ION CONC	% TRANS
00	0.0	15.5	28.6	6.5	8.55	
01	3.3	15.2	28.8	6.4	8.52	
02	6.6	15.7	31.2	5.8	8.34	
03	9.8	15.6	32.4	4.7	8.33	
04	13.1	15.3	32.9	4.8	8.29	

DATE: MARCH 30, 1979 TIME: 1112

STATION: MARINA DEL REY - STATION 7

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	TURBIDITY
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	PPM	H ION CONC	<u>% TRANS</u>
00	0.0	17.5	29.0	4.6	8.64	
01	3.3	17.2	29.6	5.3	8.59	
02	6.6	16.3	31.9	5.4	8.41	
03	9.8	15.5	32.5	4.1	8.40	
04	13.1	15.2	33.1	4.6	8.37	

DATE: MARCH 30, 1979 TIME: 0958

STATION: MARINA DEL REY - STATION 8

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	TURBIDITY
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	PPM	H ION CONC	<u>% TRANS</u>
00	0.0	15.5	28.6	6.9	8.66	
01	3.3	16.5	28.2	7.0	8.60	
02	6.6	16.1	30.5	7.2	8.43	
03	9.8	15.9	32.2	6.3	8.40	
04	13.1	15.6	32.7	6.3	8.34	

DATE: MARCH 30, 1979 TIME: 1045

STATION: MARINA DEL REY - STATION 9

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	TURBIDITY
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	PPM	H ION CONC	<u>% TRANS</u>
00	0.0	17.1	28.8	7.1	8.45	
01	3.3	16.9	29.0	6.7	8.40	
02	6.6	16.0	31.3	7.1	8.29	
03	9.8	15.3	32.1	6.8	8.28	

DATE: MARCH 30, 1979 TIME: 1020

STATION: MARINA DEL REY - STATION 10

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	16.0	28.0	6.0	8.58	
01	3.3	16.2	28.2	4.3	8.48	
02	6.6	16.1	31.9	4.2	8.30	
03	9.8	15.6	32.5	3.9	8.29	
04	13.1	15.3	33.0	4.4	8.29	

DATE: MARCH 30, 1979 TIME: 1033

STATION: MARINA DEL REY - STATION 11

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	16.5	29.9	6.6	8.25	
01	3.3	16.6	29.7	5.5	8.24	
02	6.6	16.5	31.1	5.8	8.20	
03	9.8	15.4	32.1	5.7	8.19	
04	13.1	15.2	33.1	5.8	8.22	

DATE: MARCH 30, 1979 TIME: 1147

STATION: MARINA DEL REY - STATION 12

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	16.1	30.0	8.7	8.28	
01	3.3	15.5	30.5	9.1	8.27	
02	6.6	15.4	32.4	9.7	8.30	
03	9.8	15.3	32.9	10.4	8.30	

DATE: MARCH 30, 1979 TIME: 1200

STATION: MARINA DEL REY - STATION 13

	DEPTH METERS/FEET	TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	16.3	28.6	8.4	8.37	
01	3.3	16.5	29.3	8.0	8.33	
02	6.6	16.3	30.4	8.1	8.27	

DATE: APRIL 27, 1979 TIME: 0847

STATION: MARINA DEL REY - STATION 1

<u>DEPTH</u>	<u>METERS/FEET</u>	<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
		°C	O/00	PPM	H ION CONC	% TRANS.
00	0.0	15.9	34.4	6.6	8.24	
01	3.3	15.8	34.5	6.8	8.24	
02	6.6	15.6	34.6	6.9	8.24	
03	9.8	14.9	34.4	7.1	8.23	
04	13.1	14.5	33.7	7.1	8.19	
05	16.4	14.4	33.7	7.2	8.18	
06	19.7	13.9	33.1	7.4	8.15	
07	23.0	13.7	32.9	6.9	8.14	
08	26.2	13.7	32.9	6.9	8.13	

DATE: APRIL 27, 1979 TIME: 0908

STATION: MARINA DEL REY - STATION 2

<u>DEPTH</u>	<u>METERS/FEET</u>	<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
		°C	O/00	PPM	H ION CONC	% TRANS.
00	0.0	16.2	34.9	6.8	8.25	
01	3.3	16.2	35.0	6.9	8.25	
02	6.6	15.4	35.0	7.3	8.22	
03	9.8	15.1	34.7	7.6	8.19	
04	13.1	15.1	34.2	7.4	8.19	
05	16.4	14.9	34.0	6.7	8.19	
06	19.7	14.7	33.9	6.6	8.17	
07	23.0	13.9	33.8	6.6	8.17	

DATE: APRIL 27, 1979 TIME: 0922

STATION: MARINA DEL REY - STATION 3

<u>DEPTH</u>	<u>METERS/FEET</u>	<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
		°C	O/00	PPM	H ION CONC	% TRANS.
00	0.0	16.2	33.6	7.8	8.26	
01	3.3	16.0	33.7	8.4	8.26	
02	6.6	16.0	33.7	9.0	8.25	
03	9.8	15.9	33.7	8.2	9.70	
04	13.1	15.7	33.9	10.4	8.2	
05	16.4	15.6	33.9	11.1	8.2	

DATE: APRIL 27, 1979 TIME: 0940

STATION: MARINA DEL REY - STATION 4

DEPTH METERS/FEET	TEMPERATURE °C	TEMPERATURE °F	SALINITY 0/00	D.02	PH	TURBIDITY
				PPM	H ION CONC	% TRANS
00 0.0	17.0		34.9	7.7	8.22	
01 3.3	17.0		35.4	8.2	8.22	
02 6.6	16.8		33.6	8.9	8.23	
03 9.8	16.7		33.6	9.4	8.23	
04 13.1	16.6		33.7	10.1	8.22	
05 16.4	16.5		33.7	10.6	8.22	

DATE: APRIL 27, 1979 TIME: 0957

STATION: MARINA DEL REY - STATION 5

DEPTH METERS/FEET	TEMPERATURE °C	TEMPERATURE °F	SALINITY 0/00	D.02	PH	TURBIDITY
				PPM	H ION CONC	% TRANS
00 0.0	17.4		33.3	8.8	8.55	
01 3.3	17.5		33.5	8.8	8.52	
02 6.6	17.4		33.6	9.0	8.43	
03 9.8	17.3		33.7	9.1	8.42	
04 13.1	17.2		33.6	9.2	8.36	
05 16.4	16.9		33.7	9.1	8.35	
06 19.7	16.8		33.9	8.9	8.28	

DATE: APRIL 27, 1979 TIME: 1015

STATION: MARINA DEL REY - STATION 6

DEPTH METERS/FEET	TEMPERATURE °C	TEMPERATURE °F	SALINITY 0/00	D.02	PH	TURBIDITY
				PPM	H ION CONC	% TRANS
00 0.0	17.6		33.4	8.7	8.73	
01 3.3	17.4		33.7	9.0	8.70	
02 6.6	17.4		33.7	9.0	8.53	
03 9.8	17.3		33.6	9.0	8.51	

DATE: APRIL 27, 1979

TIME: 1130

STATION: MARINA DEL REY - STATION 7

DEPTH METERS/FEET	TEMPERATURE		SALINITY	D.O2	PH	TURBIDITY
	°C	°F	0/00	PPM	H ION CONC	% TRANS
00 0.0	18.2		33.4	8.0	8.75	
01 3.3	18.2		33.5	8.1	8.68	
02 6.6	18.2		33.5	8.1	8.48	
03 9.8	17.9		33.6	7.8	8.47	
04 13.1	17.8		33.7	7.7	8.38	

DATE: APRIL 27, 1979

TIME: 1035

STATION: MARINA DEL REY - STATION 8

DEPTH METERS/FEET	TEMPERATURE		SALINITY	D.O2	PH	TURBIDITY
	°C	°F	0/00	PPM	H ION CONC	% TRANS
00 0.0	18.1		33.0	8.4	8.91	
01 3.3	18.1		33.4	8.6	8.85	
02 6.6	18.0		33.5	8.6	8.64	

DATE: APRIL 27, 1979

TIME: 1112

STATION: MARINA DEL REY - STATION 9

DEPTH METERS/FEET	TEMPERATURE		SALINITY	D.O2	PH	TURBIDITY
	°C	°F	0/00	PPM	H ION CONC	% TRANS
00 0.0	18.4		32.6	9.1	8.42	
01 3.3	18.3		32.9	9.7	8.39	
02 6.6	18.2		33.2	10.3	8.30	

DATE: APRIL 27, 1979

TIME: 1050

STATION: MARINA DEL REY - STATION 10

DEPTH METERS/FEET	TEMPERATURE		SALINITY	D.O2	PH	TURBIDITY
	°C	°F	0/00	PPM	H ION CONC	% TRANS
00 0.0	18.1		33.2	9.6	8.82	
01 3.3	18.3		33.4	10.4	8.73	
02 6.6	18.2		33.4	11.4	8.56	
03 9.8	18.1		33.5	12.3	8.52	

DATE: APRIL 27, 1979

TIME: 1103

STATION: MARINA DEL REY - STATION 11

DEPTH METERS/FEET		TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	18.4	33.2	8.5	8.47	
01	3.3	18.4	33.4	8.7	8.45	
02	6.6	18.1	33.6	9.2	8.37	
03	9.8	17.9	33.6	9.8	8.36	
04	13.1	17.9	33.7	10.0	8.32	

DATE: APRIL 27, 1979

TIME: 1205

STATION: MARINA DEL REY - STATION 12

DEPTH METERS/FEET		TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	15.9	33.8	9.8	8.15	
01	3.3	15.7	33.7	10.0	8.13	
02	6.6	15.7	33.7	10.4	8.12	
03	9.8	15.7	33.5	8.35	8.11	

DATE: APRIL 27, 1979

TIME: 1230

STATION: MARINA DEL REY - STATION 13

DEPTH METERS/FEET		TEMPERATURE °C	SALINITY 0/00	D.02 PPM	PH H ION CONC	TURBIDITY % TRANS
00	0.0	18.6	32.7	9.2	8.66	
01	3.3	18.8	33.1	8.1	8.58	

DATE: MAY 31, 1979

TIME: 0844

STATION: MARINA DEL REY - STATION 1

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	TURBIDITY
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	PPM	H ION CONC	<u>% TRANS</u>
00	0.0	17.8	32.9	5.5	6.49	
01	3.3	17.7	33.0	5.7	6.61	
02	6.6	17.7	33.4	5.7	6.74	
03	9.8	17.6	33.5	5.8	6.76	
04	13.1	17.6	33.6	5.8	6.87	
05	16.4	17.4	33.6	5.8	6.89	
06	19.7	17.3	33.7	5.8	6.99	
07	23.0	17.0	33.8	5.9	7.01	

DATE: MAY 31, 1979

TIME: 0911

STATION: MARINA DEL REY - STATION 2

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	TURBIDITY
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	PPM	H ION CONC	<u>% TRANS</u>
00	0.0	18.4	32.6	5.7	7.76	
01	3.3	18.5	32.9	5.8	7.87	
02	6.6	18.5	33.2	5.9	7.88	
03	9.8	18.3	33.6	6.0	7.95	
04	13.1	17.7	33.6	6.1	7.95	
05	16.4	17.4	33.9	6.2	8.00	

DATE: MAY 31, 1979

TIME: 0933

STATION: MARINA DEL REY - STATION 3

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	D.02	PH	TURBIDITY
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	PPM	H ION CONC	<u>% TRANS</u>
00	0.0	18.6	33.3	5.3	8.63	
01	3.3	18.8	33.3	5.3	8.53	
02	6.6	18.7	33.5	5.3	8.43	
03	9.8	18.2	33.7	5.3	8.41	
04	13.1	18.2	33.8	5.3	8.36	
05	16.4	18.0	33.7	5.4	8.35	

DATE: MAY 31, 1979 TIME: 0945

STATION: MARINA DEL REY - STATION 4

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	18.9	33.2	5.6	8.48	
01	3.3	19.0	33.3	5.8	8.44	
02	6.6	19.0	33.5	6.0	8.36	
03	9.8	18.5	33.6	5.4	8.36	
04	13.1	18.0	33.8	5.3	8.33	
05	16.4	17.8	33.7	5.3	8.32	

DATE: MAY 31, 1979 TIME: 0957

STATION: MARINA DEL REY - STATION 5

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	19.2	33.1	5.6	8.56	
01	3.3	19.3	33.3	5.6	8.50	
02	6.6	19.2	33.4	5.5	8.40	
03	9.8	19.0	33.6	5.3	8.39	
04	13.1	18.8	33.7	5.1	8.36	
05	16.4	18.0	33.9	5.0	8.36	

DATE: MAY 31, 1979 TIME: 1021

STATION: MARINA DEL REY - STATION 6

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	18.9	32.9	5.5	8.53	
01	3.3	19.0	33.2	5.7	8.46	
02	6.6	19.0	33.4	5.9	8.34	
03	9.8	19.0	33.5	6.1	8.32	

DATE: MAY 31, 1979 TIME: 1143

STATION: MARINA DEL REY - STATION 7

<u>DEPTH METERS/FEET</u>		<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.02 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00	0.0	19.2	32.8	5.6	8.28	
01	3.3	19.3	33.1	5.7	8.29	
02	6.6	19.3	33.4	5.8	8.28	
03	9.8	19.3	33.4	6.0	8.28	

DATE: MAY 31, 1979 TIME: 1042

STATION: MARINA DEL REY - STATION 8

<u>DEPTH METERS/FEET</u>		<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.02 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00	0.0	19.2	32.8	5.7	8.43	
01	3.3	19.3	33.2	5.8	8.40	
02	6.6	19.3	33.3	5.9	8.31	
03	9.8	19.3	33.5	5.9	8.30	
04	13.1	18.8	33.8	2.5	8.19	

DATE: MAY 31, 1979 TIME: 1120

STATION: MARINA DEL REY - STATION 9

<u>DEPTH METERS/FEET</u>		<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.02 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00	0.0	19.4	32.1	5.0	8.37	
01	3.3	19.4	32.6	4.9	8.31	
02	6.6	19.3	32.9	4.9	8.30	

DATE: MAY 31, 1979 TIME: 1057

STATION: MARINA DEL REY - STATION 10

<u>DEPTH METERS/FEET</u>		<u>TEMPERATURE °C</u>	<u>SALINITY 0/00</u>	<u>D.02 PPM</u>	<u>PH H ION CONC</u>	<u>TURBIDITY % TRANS</u>
00	0.0	19.4	32.8	5.1	8.50	
01	3.3	19.5	33.1	5.3	8.44	
02	6.6	19.5	33.3	5.3	8.35	
03	9.8	19.3	33.5	3.7	8.34	

DATE: MAY 31, 1979 TIME: 1112

STATION: MARINA DEL REY - STATION 11

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	19.4	33.0	5.2	8.35	
01	3.3	19.5	33.3	5.3	8.34	
02	6.6	19.5	33.4	5.4	8.32	
03	9.8	19.3	33.6	4.8	8.31	

DATE: MAY 31, 1979 TIME: 1204

STATION: MARINA DEL REY - STATION 12

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	18.2	31.8	5.8	8.37	
01	3.3	18.0	32.1	6.0	8.35	
02	6.6	17.9	33.1	6.4	8.34	
03	9.8	17.8	33.2	6.3	8.33	

DATE: MAY 31, 1979 TIME: 1219

STATION: MARINA DEL REY - STATION 13

<u>DEPTH</u>		<u>TEMPERATURE</u>	<u>SALINITY</u>	<u>D.02</u>	<u>PH</u>	<u>TURBIDITY</u>
<u>METERS/FEET</u>		<u>°C</u>	<u>0/00</u>	<u>PPM</u>	<u>H ION CONC</u>	<u>% TRANS</u>
00	0.0	20.2	33.1	4.4	8.09	
01	3.3	20.2	33.2	4.1	8.08	

APPENDIX B

Biotic Data

July 1976 - June 1979

Zooplankton

Benthic

Settling Rack

ZOOPLANKTON

## PLANKTON DATA

July-December 1976

STATION MDR-1

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ANNELIDA POLYCHAETA</b>	2	1	1	1		
<b>ARTHROPODA CRUSTACEA</b>						
Amphipoda	24	4	2	26	32	
Gammaridae	6	6				
Caprellidae	6					
Cirripedia (nauplius, cypris)	6					
Cladocera						
<i>Eudrepanorhynchus</i>	24	8	17	115	473	63
<i>Evdadne spinifera</i>	14	1	1	3	26	32
<i>Penilia avirostris</i>	68	233	122	127	315	
<i>Podon polyphemoides</i>	14	15	6	2	114	
Copepoda calanoida (nauplius, copepodite)	16					
Acartiidae						
<i>Acartia californiensis</i>	20	1	1			
<i>Acartia clausi</i>						
<i>Acartia danae</i>						
<i>Acartia negligens</i>						
<i>Acartia tonsa</i>						
<i>Acartia</i> spp.*	227	61	352	358	1,173	17,283
Calanidae						
<i>Calanus pacificus</i>						
<i>Calanus tenuicornis</i>						
<i>Calanus</i> spp.						
Calocalanidae						
<i>Calocalanus pavo</i>						
<i>Calocalanus styliremis</i>						
<i>Ischrocalanus tenuis</i>						
<i>Mecynocera clausi</i>						
Centropagidae						
<i>Centropages bradyi</i>						
Eucalanidae						
<i>Eucalanus bungi</i>						
<i>Eucalanus crassus</i>						
<i>Eucalanus</i> spp.						
Rhincalanus nasutus						

\**Acartia tonsa* + *A. californiensis*.

July-December 1976

## PLANKTON DATA

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flavigornis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>	136	12	55	126	81	539
Pontellidae						
<i>Labidocera jollae</i>		3	5	2	29	571
<i>Labidocera trispinosa</i>						
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farmani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus</i> spp.						
<i>Ctenocalanus varius</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Temoridae						
<i>Temora discandra</i>						
Tortaniidae						
<i>Tortania discaudatus</i>	4					32
Copepoda caligoida						
Copepoda cyclopoida						
Corycaeidae						
<i>Corycaeus amazonicus</i>					1	
<i>Corycaeus anglicus</i>					45	
<i>Corycaeus flaccus</i>					1	
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrectii</i>						
<i>Corycaeus</i> spp.						
<i>Paranula curta</i>						

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
<b>Copepoda cyclopoida (cont.)</b>						
Oithoniidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>						
<i>Oithona similis</i>						
<i>Oithona spinirostris</i>						
<i>Oithona sp.</i>						
Oncopeltidae						
<i>Oncæa dentipes</i>						
<i>Oncæa media</i>						
<i>Oncæa mediterranea</i>						
<i>Oncæa similis</i>						
<i>Oncæa venusta</i>						
<i>Oncæa sp.</i>						
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
Enterpina acutifrons						
Cumacea	8		1			
Decapoda						
Anomura (zoea)			2		1	
Anomura-porcellanidae (zoea)						
Brachyura (zoea, megalopa)			2		1	
Caridea (zoea)	6		2		2	
Macrura (zoea)						
Penaeida (zoea)						
Euphausiacea (calyptopsis)	2		2		1	
Isopoda						
Mysidacea						
Ostracoda	2		1			
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)	84	43	11	47	7	127
CNIDARIA						
Hydrozoa (medusae)	30	22	10	5	48	476
Siphonophora						

July-December 1976

## PLANKTON DATA

	Jul	Aug	Sep	Oct	Nov	Dec
<b>CHAETOGNATH</b>	4	1	4	7	7	4
<b>CHORDATA</b>						
Ascidacea (larvae)	2	2			7	
Larvacea	291	28	12	7	70	1,237
Thaliacea		1			202	127
<b>Vertebrata</b>						
Osteichthys (eggs larvae)	14	4				
<b>CTENOPHORA</b>						
<b>ECHINODERMATA</b>						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
<b>MOLLUSCA</b>						
Gastropoda (veliger)						
Pteropoda						
Pelecypoda (veliger)						
<b>NEMATODA</b>						
<b>PLATYHELMINTHES</b>						
Trematoda (cercaria)						
<b>PHORONIDA</b> (actinotroch)						

	January-June 1977					STATION MDR-1	
	Jan	Feb	Mar	Apr	May	Jun	
ANNELIDA POLYCHAETA	43		43			1	1
ARTHROPODA CRUSTACEA							
Amphipoda							
Gammaridae							
Caprellidae							
Cirripedia (nauplius, cypris)							
Cladocera							
Eudine normanni	43		1,438				
Eudine spinifera	32		241				
Penilia avirostris	54		80				
Podon polypnoides			111	7			
Copepoda calanoida (nauplius, copepodite)	11		20				
Acartiidae							
Acartia californiensis							
Acartia clausi	11						
Acartia dance							
Acartia negligens							
Acartia tonsa							
Acartia spp. *	3,714		1,006				
Calanidae							
Calanus pacificus							
Calanus tenuicornis							
Calanus spp.							
Calocalanidae							
Calocalanus pavo							
Calocalanus styliremis							
Ischnocalanus tenuis							
Mecynocera clausi							
Centropagidae							
Centropages bradyi							
Eucalanidae							
Eucalanus bungi							
Eucalanus crassus							
Eucalanus spp.							
Rhincalanus nasutus							

\*Acartia tonsa + A. californiensis.

## PLANKTON DATA

	January-June 1977					STATION MDR-1
	Jan	Feb	Mar	Apr	May	
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flaviicornis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>	1,814	1,016	274	54	35	
Pontellidae						
<i>Labidocera jollae</i>						
<i>Labidocera trispinosa</i>	270	80	390	167	30	1
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>	11					
<i>Clausocalanus farnani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>	97					
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus spp.</i>						
<i>Ctenocalanus varus</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalimus</i>						
Tanaididae						
<i>Tenora discadata</i>	10					
Tortaniidae						
<i>Tortania discandatus</i>	11			7		2
Copepoda caligoida						
<i>Copepoda cyclopoida</i>						
Corycaeidae						
<i>Corycaeus amazonicus</i>					1	
<i>Corycaeus anglicus</i>	108	131	29	1	1	1
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus spp.</i>						
<i>Parramula curta</i>						

## PLANKTON DATA

January-June 1977

STATION MDR-1

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
<b>Copepoda cyclopoida (cont.)</b>						
Oithoniidae						
<i>Oithona oculata</i>	22		7			
<i>Oithona plumifera</i>	11	10	7			
<i>Oithona similis</i>					3	5
<i>Oithona spinirostris</i>						6
<i>Oithona</i> sp.						
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea vermastra</i>						
<i>Oncaea</i> sp.						
Copepoda-harpacticoida						
Ectinosomidae						
<i>Mitrosetella norvegica</i>	22	10				
Tachidiidae						
<i>Euterpnina acutifrons</i>			33			
Cumacea						
Decapoda						
Anomura (zoea)						
Anomura-porcellanidae (zoea)						
<i>Brachyura</i> (zoea, megalopa)						
Caridea (zoea)						
Macrura (zoea)						
Penaeida (zoea)						
Euphausiaceae (calyptopsis)						
Isopoda						
Mysidacea						
Ostracoda						
Psychogonida						
BRACHIOPODA (larvae)	97	10	50			
BRYOZOA (cyphonocytes)						
CNIDARIA						
Hydrozoa (medusae)	11	20	7	400	18	
Siphonophora	11	191		33	1	

## PLANKTON DATA

January-June 1977

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STATION MDR-1

	Jan	Feb	Mar	Apr	May	Jun
CHAETOGNATH	64	50	22			
CHORDATA						
Ascidacea (larvae)						
Larvacea	1,738	965	36			
Thaliacea	141					
Vertebrata						
Osteichthys (eggs larvae)	11		14			
Ctenophora						
ECHINODERMATA						
Echinoidea (echinopluteus)	10					
Holothuroidea (auricularia)	11					
Ophiuroidea (ophiopluteus)	32					
MOLLUSCA						
Gastropoda (veliger)	54			14		
Pteropoda						
Pelecypoda (veliger)	151	10	36			
NEMATODA						
PLATYHELMINTHES						
Trematoda (carcaria)						
PHORONIDA (actinotroch)						

B10

## PLANKTON

July-December 1976

STATION MDR-2

	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
ANNELIDA POLYCHAETA	2	1		6	7	37
ARTHROPODA CRUSTACEA						
Amphipoda	4		2			
Gammaridae	2	4	2			
Caprellidae	6					
Cirripedia						
(nauplius, cypris)						
Cladocera	24	4	68	39	537	185
Eurydne nordmanni	13		2	5	27	56
Eudane spinifera	39	248	797	108	443	111
Penilia australis	20	1	2			37
Podon polypheoides	4	6				
Copepoda calanoida						
(nauplius, copepodite)						
Acartiidae						
Acartia californiensis	11	1	5	3	27	37
Acartia clausi						
Acartia danae						
Acartia negligens						
Acartia tonsa						
Acartia spp. *	182	108	158	555	2,962	8,337
Calanidae						
Calanus pacificus	6					
Calanus temucornis						
Calanus spp.						
Calocalanidae						
Calocalanus pavo						
Calocalanus styliremis						
Ischmanocalanus temensis						
Neocalanusa clausi						
Centropagidae						
Centropages bradyi						
Eucalanidae						
Eucalanus bungi						
Eucalanus crassus						
Eucalanus spp.						
Rhinocalanus nasutus						

\*Acartia tonsa + A. californiensis.

## PLANKTON DATA

July-December 1976

Page 2 of 4

STATION MIDR-2

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
<i>Lucicutia flavigaster</i>						
<i>Paracalanidae</i>						
<i>Paracalanus parvus</i>	105	26	19	187	114	593
<i>Pontellidae</i>						
<i>Labidocera joliae</i>	4	5	17	6	22	352
<i>Lairidocera trispinosa</i>						
<i>Pseudocalanidae</i>						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>	11	4				
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus spp.</i>						
<i>Ctenocalanus vanus</i>						
<i>Pseudocyclopidae</i>						
<i>Furcifocylops bilobatus</i>						
<i>Pseudodiaptomidae</i>						
<i>Pseudodiaptomus euryhalinus</i>						
<i>Temoridae</i>						
<i>Temora discoidata</i>						
<i>Tortaniidae</i>						
<i>Tortania disstrandatus</i>	2					93
<i>Copepoda caligoida</i>						
<i>Copepoda cyclopoida</i>						
<i>Corycaeidae</i>	2					
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus spp.</i>						
<i>Parranula curta</i>						

BJ2

## PLANKTON DATA

July-December 1976

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STATION MDR-2

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithoniidae						
<i>Oithona oculata</i>						93
<i>Oithona planifera</i>					2	
<i>Oithona similis</i>			2			
<i>Oithona spinirostris</i>			2			
<i>Oithona</i> sp.						
Oncellidae						
<i>Oncæa dentipes</i>						
<i>Oncæa media</i>						
Oncocæa mediterranea						
<i>Oncæa similis</i>				1		
<i>Oncæa venusta</i>		2		1		
Oncæa sp.		4		1		
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpina acutifrons</i>			6			
Cumacea						
Decapoda						
Anomura (zoea)				2		
Anomura-porcellanidae (zoea)						
Brachyura (zoea, megalopa)						
Caridea (zoea)			15	4	2	18
Macrura (zoea)			6			
Penaeida (zoea)						
Euphausiacea (calyptopsis)						
Isopoda						
Mysidacea				1		
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)						
CNIDARIA						
Hydrozoa (medusae)						
Siphonophora						

July-December 1976

## PLANKTON DATA

	Jul	Aug	Sep	Oct	Nov	Dec
CHAETOGNATH	2	1	7	6		
CHORDATA						
Asciidiacea (larvae)	6		2			
Larvacea	147	18	10	29	20	593
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)	6	5				
CTENOPHORA						
ECHINODERMA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda	1					18
Pelecypoda (veliger)						
NEMATODA	2					
PLATHYHELMINTHES	20					
Trematoda (cercaria)						
PHORONIDA (actinotroch)				6		

## PLANKTON DATA

January-June 1977

STATION MDR-2

	Jan	Feb	Mar	Apr	May	Jun
ANNELIDA POLYCHAETA	13		26	176		1
ARTHROPODA CRUSTACEA						
Amphipoda						
Gammaridae						
Caprellidae						
Cirripedia (nauplius, cypris)	90	50	38	353	27	
Cladocera						
<i>Euxine nordmanni</i>	13	572	6			
<i>Eucadne spinifera</i>	96	100	26			
<i>Penilia avirostris</i>	26	62				
<i>Podon polypnemoides</i>	6	62	26			
Copepoda calanoida (nauplius, copepodite)			3	176		
Acartiidae						
<i>Acartia californiensis</i>						
<i>Acartia clausi</i>						
<i>Acartia danae</i>						
<i>Acartia negligens</i>						
<i>Acartia tonsa</i>						
<i>Acartia</i> spp. *	1,381	1,840	1,024	121,997	2,708	4
Calanidae						
<i>Calanus pacificus</i>						
<i>Calanus tenuicornis</i>						
<i>Calanus</i> spp.						
Calocalanidae						
<i>Calocalanus pauc</i>						
<i>Calocalanus styliaremis</i>						
<i>Tachocalanus tenuis</i>						
<i>Mecynocera clausi</i>						
Candaciidae						
<i>Candacea</i> sp.						
Centropagidae						
<i>Centropages bradyi</i>						
Eucalanidae						
<i>Eucalanus bungi</i>						
<i>Eucalanus crassus</i>						
<i>Eucalanus</i> spp.						
<i>Rhincalanus nasutus</i>						

\* *Acartia tonsa* + *A. californiensis*.

## PLANKTON DATA

January-June 1977

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STATION MDR-2

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flavicornis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>	1,278		1,306	114		4
Pontellidae						
<i>Labidocera joliae</i>						
<i>Labidocera trispinosa</i>	109	149		85	353	122
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>	13					
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>	71					
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>	6					
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus spp.</i>	19			12		
<i>Ctenocalanus vanus</i>				12		
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalimus</i>						
Temoridae						
<i>Temora discaudata</i>	12					
Tortoniidae						
<i>Tortanus discaudatus</i>						
Copepoda caligoida						
Copepoda cyclopoida						
<i>Corycaeus</i>						
<i>amazonicus</i>	37					
<i>anglicus</i>	77		112		8	
<i>flaccus</i>						
<i>furcifer</i>						
<i>griesbrechii</i>						
<i>spp.</i>						
<i>Farranula curta</i>						

PLANKTON DATA	January-June 1977					STATION MDR-2
	Jan	Feb	Mar	Apr	May	
ARTHROPODA CRUSTACEA (cont.)						
Copepoda cyclopoida (cont.)						
Oithonidae						
<i>Oithona oculata</i>	6	25	3	176	7	2
<i>Oithona plumifera</i>	19					
<i>Oithona similis</i>						
<i>Oithona spinirostris</i>						
<i>Oithona</i> sp.						
Oncidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>	6	12	3			7
<i>Oncaea</i> sp.						
Copepoda-harpacticoida						
Ectininosomidae						
<i>Microsetella norvegica</i>						
Tachididae						
<i>Euterpina acutifrons</i>				12		
Ciliacea						
Decapoda						
Anomura (zoea)						
Anomura-porcellanidae (zoea)						
<i>Brachyura</i> (zoea, megalopa)	26			50		7
Caridea (zoea)						2
Macrura (zoea)						
Penaeida (zoea)						
Euphausiacea (calyptosis)						
Isopoda						
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)	45	100		9		20
BRYOZOA (cyphonautes)						
CNIDARIA						
Hydrozoa (medusae)	19	12	12	176	61	61
Siphonophora	64	149				

## PLANKTON DATA

January-June 1977

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STATION MDR-2

	Jan	Feb	Mar	Apr	May	Jun
CHAETOGNATH	32	25		176		
CHORDATA						
Ascidia (larvae)	726				20	1
Larvacea	96	75			14	3
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)	32	50	9		14	1
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)	6	12				
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)	32		3			
MOLLUSCA						
Gastropoda (veliger)				25	9	
Pteropoda						
Pelecyopoda (veliger)	32	50	6			
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

## PLANKTON DATA

July-December 1976

STATION MDR-3

	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA						
ARTHROPODA CRUSTACEA						
Amphipoda						
Gammaridae	14	1	4	1		5
Caprellidae		5				
Cirripedia		4				
(nauplius, cypris)						
Cladocera						
<i>Eudore nordmanni</i>	10	2	2	3	39	246
<i>Eudore spinifera</i>	2				5	70
<i>Penilia avirostris</i>		4	4	6	12	70
<i>Podon polyphemoides</i>	2		4	1	58	35
Copepoda calanoida						
(nauplius, copepodite)						
Acartiidae						
<i>Acartia californiensis</i>						
<i>Acartia clausi</i>	2	5	4	1		70
<i>Acartia danae</i>						
<i>Acartia negligens</i>						
<i>Acartia tonsa</i>						
<i>Acartia spp.*</i>						
Calanidae	462	106	1,080	242	510	3,379
<i>Calanus pacificus</i>						
<i>Calanus tenuicornis</i>						
<i>Calanus spp.</i>						
Calocalanidae						
<i>Calocalanus pavo</i>						
<i>Calocalanus stylifer</i>						
<i>Ischocolanus tenuis</i>						
<i>Mecynocera clausi</i>						
Centropagidae						
<i>Centropages bradyi</i>						
Eucalanidae						
<i>Eucalanus bungi</i>						
<i>Eucalanus crassus</i>						
<i>Eucalanus spp.</i>						
<i>Rhincalanus nasutus</i>						

*\*Acartia tonsa + A. californiensis.*

## PLANKTON DATA

July-December 1976

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STATION MDR-3

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
<b>Copepoda calanoida (cont.)</b>						
<b>Lucicutiidae</b>						
<i>Lucicutia flavigomis</i>						
<b>Paracalanidae</b>						
<i>Paracalanus parvus</i>	7	27	38	12	81	616
<b>Pontellidae</b>						
<i>Labidocera jollae</i>		2	11			
<i>Labidocera trispinosa</i>	10					
<b>Pseudocalanidae</b>						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>	2					
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>				1	2	70
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus spp.</i>						
<i>Ctenocalanus venus</i>						
<b>Pseudocyclopidae</b>						
<i>Pseudocyclops bilobatus</i>						
<b>Pseudodiaptomidae</b>						
<i>Pseudodiaptomus euryhalimus</i>						
<b>Tenoridae</b>						
<i>Temora discodata</i>						
<b>Tortaniidae</b>						
<i>Tortanus discudatus</i>						
<b>Copepoda caligoida</b>						
<i>Copepoda cyclopoida</i>						
<b>Corycaeidae</b>						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>	2					
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus spp.</i>						
<i>Farrania curta</i>						

## PLANKTON DATA

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
<b>Copepoda cyclopoida (cont.)</b>						
Oithoniidae						
<i>Oithona oculata</i>	1					2
<i>Oithona plumifera</i>						
<i>Oithona similis</i>	1	2				
<i>Oithona spinirostris</i>						
<i>Oithona</i> sp.						
Oncidae						
<i>Oncæa dentipes</i>						
<i>Oncæa media</i>						
<i>Oncæa mediterranea</i>					2	
<i>Oncæa similis</i>						
<i>Oncæa venusta</i>						
<i>Oncæa</i> sp.						
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachididae						
<i>Euterpina acutifrons</i>						
Cumacea						
Decapoda						
Anomura (zoea)						
<i>Anomura-porcellanidae</i> (zoea)						
<i>Brachyura</i> (zoea, megalopa)	2			4	30	35
Caridea (zoea)	1					
Macrura (zoea)						
Penaeida (zoea)						
Euphausiacea (calyptosia)	2					
Isopoda						
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)	5	10		2	4	88
BRYOZOA (cyphonautes)						
CNIDARIA						
Hydrozoa (medusae)	14	1	8	4	4	194
Siphonophora						18

## PLANTATION DATA

The December 1976

	JUL	AUG	SEP	OCT	NOV	DEC
CHAETOGNATH						
CHORDATA						
Ascidiae (larvae)		1	6	1	21	35
Larvacea	14	5	6	1	7	546
Thaliacea		1			16	299
Vertebrata						
Osteichthys (eggs larvae)		2		4		35
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda						
Pelecypoda (veliger)						
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						
					4	18

PLANKTON DATA	January-June 1977					STATION MDR-3
	Jan	Feb	Mar	Apr	May	
ANNEELIDA POLYCHAETA	28		4	12	8	
ARTHROPODA CRUSTACEA						
Amphipoda						
Gammaridae						
Caprellidae						
Cirripedia						
(nauplius, cypris)						
Cladocera						
Eucypris virens						
Epilampra spinifera						
Penilia avirostris						
Podon polypnoides						
Copepoda calanoida						
(nauplius, copepodite)						
Acartiidae						
Acartia californiensis						
Acartia clausi						
Acartia danae						
Acartia negligens						
Acartia tonsa						
Acartia spp. *						
Calanidae						
Calanus pacificus						
Calanus temicornis						
Calanus spp.						
Calocalanidae						
Calocalanus pavo						
Calocalanus stylinemis						
Ischnocalanus tenuis						
Mecynocera clausi						
Centropagidae						
Centropages bradyi						
Eucalanidae						
Eucalanus bungi						
Eucalanus crassus						
Eucalanus spp.						
Rhinoalanus nasutus						

\*Acartia tonsa + A. californiensis.

January-June 1977

## PLANKTON DATA

ARTHOPODA CRUSTACEA (cont.)	Jan	Feb	Mar	Apr	May	Jun
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flaviicornis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>	601	1,294	42		56	13
Pontellidae						
<i>Labidocera jollae</i>						
<i>Labidocera trispinosa</i>	106	47	48	8	8	
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus spp.</i>			12			
<i>Ctenocalanus varus</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalimus</i>						
Temoridae						
<i>Temora dissecta</i>						
Tortaniidae						
<i>Tortania dissecta</i>	11					
Copepoda caligoida						
<i>Copepoda cyclopoida</i>						1
Corycaeidae						
<i>Corycaeus amazonicus</i>	6		23			
<i>Corycaeus anglicus</i>	61		116			7
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus gresbrechti</i>						
<i>Corycaeus spp.</i>						
<i>Parramala curta</i>						

## PLANKTON DATA

January-June 1977

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STATION MDR-3

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithoniidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>						
<i>Oithona similis</i>	6			4	4	8
<i>Oithona spinirostris</i>						
<i>Oithona</i> sp.						
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncaea</i> sp.						
Copepoda-harpacticoida	175			8	1	
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpinia acutifrons</i>						
Cumacea						
Decapoda						
<i>Anomura</i> (zoea)						
<i>Anomura-porcellanidae</i> (zoea)						
<i>Brachyura</i> (zoea, megalopa)	6	47	7			2
<i>Caridea</i> (zoea)			12			
<i>Macrura</i> (zoea)						
<i>Penaeida</i> (zoea)						
<i>Euphausiacea</i> (calyptopsis)						
<i>Isopoda</i>						
<i>Mysidacea</i>						
<i>Ostracoda</i>						
<i>Pycnogonida</i>						
BRACHIOPODA (larvae)	22	163	4			
BRYOZOA (cyphonautes)						
Cnidaria						
Hydrozoa (medusae)	6	12				16
Siphonophora	6	105				

## PLANKTON DATA

January-June 1977

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STATION MDR-3

	Jan	Feb	Mar	Apr	May	Jun
CHAETOGNATH	28	23	7			
CHORDATA						
Ascidacea (larvae)					8	
Larvacea	278	804			8	
Thaliacea	22	70				4
Vertebrata						
Osteichthys (eggs larvae)	6	23			4	
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)					1	
MOLLUSCA						
Gastropoda (veliger)	22		9			
pteropoda		12				
Pelecyopoda (veliger)	72	58	11		4	
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)					8	
PHORONIDA (actinotroch)			2	4		

## PLANKTON DATA

July-December 1976

STATION MDR-4

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ANNELIDA POLYCHAETA</b>						
<b>ARTHROPODA CRUSTACEA</b>						
Amphipoda						
Gammaridae	1	1		2		
Caprellidae		18		17	14	22
Clirripedia (nauplius, cypris)						
Cladocera						
<i>Eucadne nordmanni</i>	1			23	20	154
<i>Eucadne spinifera</i>				1		22
Penilia avirostris		1		13	7	
Podon polyphemoides	5		30	7	47	
Copepoda calanoida (nauplius, copepodite)						
Acartiidae						
<i>Acartia clausi</i>				47	22	
<i>Acartia danae</i>						
<i>Acartia negligens</i>						
<i>Acartia tonsa</i>						
<i>Acartia</i> spp. *						
Calanidae						
<i>Calanus pacificus</i>						
<i>Calanus tenuicornis</i>						
<i>Calanus</i> spp.						
Calocalanidae						
<i>Calocalanus pavo</i>						
<i>Calocalanus styliremis</i> *						
Ischnocalanus tenuis						
Mecynocera clausi						
Centropagidae						
<i>Centropages bradyi</i>						
Eucalanidae						
<i>Eucalanus bungi</i>						
<i>Eucalanus crassus</i>						
<i>Eucalanus</i> spp.						
Rhincalanus nasutus						

\* *Acartia tonsa* + *A. californiensis*.

## PLANKTON DATA

July-December 1976

	STATION MDR-4				
	Jul	Aug	Sep	Oct	
	Nov	Dec			
<b>ARTHROPODA CRUSTACEA (cont.)</b>					
Copepoda calanoida (cont.)					
Lucicutiidae					
<i>Lucicutia flavigornis</i>					
Paracalanidae					
<i>Paracalanus parvus</i>					
Pontellidae					
<i>Labidocera jollae</i>					
<i>Labidocera trispinosa</i>					
Pseudocalanidae					
<i>Clausocalanus arcicornis</i>					
<i>Clausocalanus farrani</i>					
<i>Clausocalanus furcatus</i>					
<i>Clausocalanus jobei</i>					
<i>Clausocalanus lividus</i>					
<i>Clausocalanus mastigophorus</i>					
<i>Clausocalanus parapergens</i>					
<i>Clausocalanus paululus</i>					
<i>Clausocalanus pergens</i>					
<i>Clausocalanus spp.</i>					
<i>Ctenocalanus vanus</i>					
Pseudocyclopidae					
<i>Pseudocyclops bilobatus</i>					
Pseudodiaptomidae					
<i>Pseudodiaptomus euryhalimus</i>					
Temoridae					
<i>Temora discudata</i>					
Tortoniidae					
<i>Tortona discaudatus</i>					7
Copepoda caligoidea					
Copepoda cyclopoida					
Corycaeidae					
<i>Corycaeus amazonicus</i>					
<i>Corycaeus anglicus</i>					
<i>Corycaeus flaccus</i>					
<i>Corycaeus furcifer</i>					
<i>Corycaeus giesbrechti</i>					
<i>Corycaeus spp.</i>					
<i>Farranula curta</i>					

## PLANKTON DATA

July-December 1976

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STATION MDR-4

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
<b>Copepoda cyclopoida (cont.)</b>						
Oithoniidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>						
<i>Oithona similis</i>						
<i>Oithona spinirostris</i>	1					
<i>Oithona sp.</i>						
Oncopeltidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncaea sp.</i>	1					
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpnina acutifrons</i>						
Cumacea						
Decapoda						
<i>Anomura (zoea)</i>	1					
<i>Anomura-porcellanidae (zoea)</i>						
<i>Brachyura (zoea, megalopa)</i>						
Caridea (zoea)	20					
Macrura (zoea)	4					
Penaeida (zoea)						
Euphausiacea (calyptopsis)	1					
Isopoda						
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)						
CNIDARIA						
Hydrozoa (medusae)	6	4			17	
Siphonophora					2	22

## PLANKTON DATA

July-December 1976

Page 4 of 4  
STATION MDR-4

	Jul	Aug	Sep	Oct	Nov	Dec
CHAETOGNATH			9	1		
CHIORDATA						
Asciidaeae (larvae)		10	9	30	7	
Larvacea	1	4		1		
Thaliacea						44
Vertebrata						22
Osteichthys (eggs larvae)	1			1		
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)				1		
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda						
Pelacypoda (veliger)						
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

## PLANKTON DATA

January-June 1977

Page 1 of 4  
STATION MDR-4

	Jan	Feb	Mar	Apr	May	Jun
ANNELIDA POLYCHAETA	20		43			
ARTHROPODA CRUSTACEA						
Amphipoda						
Gammaridae						
Caprellidae						
Cirripedia						
(nauplius, cypris)						
Cladocera						
Eucypris nordmanni						
Evadne spinifera						
Penilia avirostris						
Podon polypnoides						
Copepoda calanoida						
(nauplius, copepodite)						
Acartiidae						
Acartia californiensis						
Acartia clausi	184	66				
Acartia danae						
Acartia negligens						
Acartia tonsa						
Acartia spp.*	41					
Calanidae						
Calanus pacificus						
Calanus tenuicornis						
Calanus spp.						
Calocalanidae						
Calocalanus pavo						
Calocalanus styliremis						
Ischnocalanus tenuis						
Mecynocera clausi						
Centropagidae						
Centropages bradyi						
Eucalanidae						
Eucalanus bungi						
Eucalanus crassus						
Eucalanus spp.						
Rhinocalanus nasutus						

\*Acartia tonsa + A. californiensis.

## PLANKTON DATA

January-June 1977

Page 2 of 4

STATION MDR-4

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flavidicornis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>						
Pontellidae						
<i>Labidocera jolliae</i>						
<i>Labidocera trispinosa</i>						
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus spp.</i>						
<i>Ctenocalanus varius</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Temoridae						
<i>Temora discaudata</i>						
Tortariidae						
<i>Tortamus discutatus</i>						
Copepoda caligoida						
Copepoda cyclopoida						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus spp.</i>						
<i>Parramila curta</i>						
					442	10

## PLANKTON DATA

January-June 1977

Page 3 of 4

STATION MDR-4

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithoniidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>						
<i>Oithona similis</i>						7
<i>Oithona spinirostris</i>						
<i>Oithona</i> sp.						
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea vermastra</i>						
<i>Oncaea</i> sp.						
Copepoda-harpacticoida	20					
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachididae						
<i>Euterpina acutifrons</i>						
Cumacea						
Decapoda						
Anomura (zoea)						
Anomura-porcellanidae (zoea)						
Brachyura (zoea, megalopa)	20	66	21	221		
Caridea (zoea)	20					
Macrura (zoea)					3	
Penaeida (zoea)						
Euphausiacea (calyptos) (zoea)						
Isopoda	41				21	
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)						
CNIDARIA						
Hydrozoa (medusae)	41					
Siphonophora	20	66				

## PLANKTON DATA

January-June 1977

Page 4 of 4  
STATION MDR-4

	Jan	Feb	Mar	Apr	May	Jun
<b>CHAETOGNATH</b>						
<b>CHORDATA</b>						
Ascidiaeae (larvae)						
Larvacea	471	66				17
Thaliacea						
<b>Vertebrata</b>						
Osteichthys (eggs larvae)						
CTENOPHORA	82					
<b>ECHINODERMATA</b>						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
<b>MOLLUSCA</b>						
Gastropoda (veliger)	20					
Pteropoda						
Pelecypoda (veliger)	205					
<b>NEMATODA</b>						
<b>PLATYHELMINTHES</b>						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

## PLANKTON DATA

July-December 1976

STATION MDR-5

	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA	2			3	6	39
ARTHROPODA CRUSTACEA						
Amphipoda						
Gammaridae	2			1		
Caprellidae						
Cirripedia (Nauplius, cypris)	42	14		65	3	
Cladocera						
Eucadne nordmanni				3	1	10
Evadne spinifera	2					
Penilia avirostris	6				1	
Podon polyphemoides	16			17	1	108
Copepoda calanoida						
(Nauplius, copepodite)						
Acartiidae						
Acartia californiensis						
Acartia clausi	6	5		4		
Acartia danae						
Acartia negligens						
Acartia tonsa						
Acartia spp.*	645	1,895	756	255	1,773	19,783
Calanidae						
Calanus pacificus						
Calanus tenuicornis						
Calanus spp.						
Calocalanidae						
Calocalanus pavo						
Calocalanus styliferum*						
Ischnocalanus tenuis						
Mecynocera clausi						
Centropagidae						
Centropages bradyi						
Eucalanidae						
Eucalanus bungi						
Eucalanus crassus						
Eucalanus spp.						
Rhinocalanus nasutus						

\*Acartia tonsa + A. californiensis.

July-December 1976

STATION MDR-5

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flaviicornis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>						
Pontellidae						
<i>Labidocera jollae</i>						
<i>Labidocera trispinosa</i>						
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farroni</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus spp.</i>						
<i>Ctenocalanus vanus</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Tenoridae						
<i>Tenora discadata</i>						
Tortaniidae						
<i>Tortanus discaudatus</i>						
Copepoda caligoida						
Copepoda cyclopoida						
Corycaeidae						
<i>Corycaeus amazonicus</i>	2					
<i>Corycaeus anglicus</i>	5					
<i>Corycaeus flaccus</i>	1					
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus spp.</i>						
<i>Farramula curta</i>						

## PLANKTON DATA

July-December 1976

STATION MDR-5

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithonidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>						
<i>Oithona similis</i>					39	
<i>Oithona spinirostris</i>						
<i>Oithona</i> sp.						
Oncidae						
<i>Oncæa dentipes</i>						
<i>Oncæa media</i>						
<i>Oncæa mediterranea</i>						
<i>Oncæa similis</i>						
<i>Oncæa venusta</i>						
<i>Oncæa</i> sp.						
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Enterpina acutifrons</i>						
Cumacea	2					
Decapoda						
Anomura (zoea)						
Anomura-porcellanidae (zoea)						
Brachyura (zoea, megalopa)					9	
Caridea (zoea)					9	
Macrura (zoea)					14	
Penaeida (zoea)						
Euphausiacea (calyptosis)						
Isopoda						
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)						
CNIDARIA						
Hydrozoa (medusae)	1	9	3			79
Siphonophora						

July-December 1976

## PLANKTON DATA

	JUL	AUG	SEP	OCT	NOV	DEC
<b>CHAETOGNATH</b>	2		2			3
<b>CHORDATA</b>						
Ascidacea (larvae)	227	65	4	8	6	
Larvacea	68			2		
Thaliacea						
<b>Vertebrata</b>						
Osteichthys (eggs larvae)	6	14		12	3	
<b>CTENOPHORA</b>						
<b>ECHINODERMATA</b>						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
<b>MOLLUSCA</b>						
Gastropoda (veliger)			9			
Pteropoda				6		
Pelecypoda (veliger)				2		
<b>NEMATODA</b>						
<b>PLATYHELMINTHES</b>						
Trematoda (cercaria)						
Phoronida (actinotroch)						

## PLANKTON DATA

January-June 1977

STATION MDR-5

	Jan	Feb	Mar	Apr	May	Jun
ANNELIDA POLYCHAETA	222	72				
ARTHROPODA CRUSTACEA						
Amphipoda						
Gammaridae						
Caprellidae						
Cirripedia	51	445				
Cladocera						
<i>Eudine normanni</i>					1	
<i>Eudine spinifera</i>					2	
<i>Penilia avirostris</i>						
<i>Podon polypnoides</i>						
Copepoda calanoida	1,482					
(nauplius, copepodite)						
Acartiidae						
<i>Acartia californiensis</i>						
<i>Acartia clausi</i>						
<i>Acartia danae</i>						
<i>Acartia negligens</i>						
<i>Acartia tonsa</i>						
<i>Acartia</i> spp. *	21,145	71,882	22,593	137,017	54,536	15
Calanidae						
<i>Calanus pacificus</i>						
<i>Calanus tenuicornis</i>						
<i>Calanus</i> spp.						
Calocalanidae						
<i>Calocalanus pavo</i>						
<i>Calocalanus styliremis</i> *						
<i>Iachnocalanus tenuis</i>						
<i>Mecynocera clausi</i>						
Centropagidae						
<i>Centropages bradyi</i>						
Eucalanidae						
<i>Eucalanus bungi</i>						
<i>Eucalanus crassus</i>						
<i>Eucalanus</i> spp.						
Rhinocalanus nasutus						

\**Acartia tonsa* + *A. californiensis*.

## PLANKTON DATA

Page 2 of 4

January-June 1977

STATION MDR-5

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
<i>Copepoda calanoida</i> (cont.)						
Lucicutiidae						
<i>Lucicutia flaviicornis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>						
Pontellidae						
<i>Pontella jollae</i>						
Labidocera trispinosa						
Labidocera trispinosa						
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus</i> spp.						
<i>Ctenocalanus vanus</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Temoridae						
<i>Temora discaudata</i>						
Tortoniidae						
<i>Tortona discaudatus</i>						
Copepoda caligoida						
<i>Copepoda cyclopoida</i>						
Corycaelidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus</i> spp.						
<i>Parranula curta</i>						

January-June 1977

## PLANKTON DATA

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithoniidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>	25					
<i>Oithona similis</i>						
<i>Oithona spinirostris</i>						
<i>Oithona sp.</i>						
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncaea sp.</i>						
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpinia acutifrons</i>						
Cumacea						
Decapoda						
<i>Anomura (zoea)</i>						
<i>Anomura-porcellanidae (zoea)</i>						
<i>Brachyura (zoea, megalopa)</i>	25	74	36		64	9
<i>Caridea (zoea)</i>						
<i>Macrura (zoea)</i>						
<i>Penaeida (zoea)</i>						
<i>Euphausiacea (calyptosis)</i>						
Isopoda						
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)						
CNIDARIA						
Hydrozoa (medusae)						
Siphonophora						

## PLANKTON DATA

January-June 1977

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STATION MDR-5

	Jan	Feb	Mar	Apr	May	Jun
CHAETOGNATH	25	74				
CHORDATA						
Ascidiaeae (larvae)						
Larvacea	152	370				
Thaliacea	25					
Vertebrata						
Osteichthys (eggs larvae)						
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda						
Pelecyopoda (veliger)						
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
Phoronida (actinotroch)						

## PLANKTON DATA

July-December 1976

STATION MDR-6

	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA						
ARTHROPODA CRUSTACEA						
Amphipoda						
Gammaridae						
Caprellidae						
Cirripedia						
(nauplius, cypris)						
Cladocera						
<i>Eutardna nordmanni</i>						
<i>Eudane spinifera</i>						
<i>Fenilia avirostris</i>						
<i>Podon polyphemoides</i>						
Copepoda calanoida						
(nauplius, copepodite)						
Acartiidae						
<i>Acartia californiensis</i>						
<i>Acartia clausi</i>						
<i>Acartia danae</i>						
<i>Acartia negligens</i>						
<i>Acartia tonsa</i>						
<i>Acartia</i> spp. *						
Calanidae						
<i>Calanus pacificus</i>						
<i>Calanus tenuicornis</i>						
<i>Calanus</i> spp.						
Calocalanidae						
<i>Calocalanus pavo</i>						
<i>Calocalanus styliremis</i>						
<i>Ischnocalanus temuis</i>						
<i>Mesynocera clausi</i>						
Centropagidae						
<i>Centropages bradyi</i>						
Eucalanidae						
<i>Eucalanus bungi</i>						
<i>Eucalanus grossus</i>						
<i>Eucalanus</i> spp.						
Rhinecalanus nasutus						

\**Acartia tonsa* + *A. californiensis*.

## PLANKTON DATA

July-December 1976

STATION MDR-6

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flavicornis</i>						
paracalanidae						
<i>Paracalanus parvus</i>						
Pontellidae	4					235
<i>Labidocera jollae</i>						
<i>Labidocera trispinosa</i>	3					
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus spp.</i>						
<i>Ctenocalanus vanus</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Temoridae						
<i>Temora discaudata</i>						
Tortaniidae						
<i>Tortanus discudatus</i>						
Copepoda caligoida						
Copepoda cyclopoida						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus spp.</i>						
<i>Parramula curta</i>						

## PLANKTON DATA

July-December 1976

STATION MDR-6

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithoniidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>						
<i>Oithona similis</i>						
<i>Oithona spinirostris</i>						
<i>Oithona</i> sp.						
Oncellidae						
<i>Oncæa dentipes</i>						
<i>Oncæa media</i>						
<i>Oncæa mediterranea</i>						
<i>Oncæa similis</i>						
<i>Oncæa vernata</i>						
<i>Oncæa</i> sp.						
Copepoda-harpacticoida	3					
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachididae						
<i>Euterpinia acutifrons</i>						
Cumacea						
Decapoda						
Anomura (zoea)						
Anomura-porcellanidae (zoea)						
Brachyura (zoea, megalopa)						
Caridea (zoea)						
Macrura (zoea)	3					
Penaeida (zoea)						
Euphausiacea (calyptopsis)						
Isopoda						
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)						
CNIDARIA						
Hydrozoa (medusæ)	3					
Siphonophora						

## PLANKTON DATA

July-December 1976

Page 4 of 4

STATION MDR-6

	Jul	Aug	Sep	Oct	Nov	Dec
CHAETOGNATH						
CHORDATA						
Asciadiacea (larvae)	22	27	6	126	8	
Larvacea						
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)						
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda						
Pelecypoda (veliger)						
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						
			39			
				4		

## PLANKTON DATA

ANNELIDA POLYCHAETA				
ARTHROPODA CRUSTACEA				
Amphipoda				1
Gammaridae				
Caprellidae				
Cirripedia (nauplius, cypris)				3
Cladocera				
Eudine nordmanni				
Eudine spinifera				
Penilia avirostris				
Podon polyphemoides				3
Copepoda calanoida (nauplius, copepodite)				2
Acartiidae				
Acartia californiensis				
Acartia clausi				6
Acartia danae				
Acartia negligens				
Acartia tonsa				
Acartia spp. *				
Calanidae				
Calanus pacificus				
Calanus tenuicornis				
Calanus spp.				
Calocalanidae				
Calocalanus pavo				
Calocalanus styliremis				
Ischnocalanus tenuis				
Mecynocera clausi				
Centropagidae				
Centropages bradyi				
Eucalanidae				
Eucalanus bungi				
Eucalanus crassus				
Eucalanus spp.				
Rhincalanus nasutus				

## PLANKTON DATA

January-June 1977

STATION MDR-6

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flaviicornis</i>						
Paracalanidae						
<i>Paracalanus parrus</i>	25	137				
Pontellidae						
<i>Labidocera jollae</i>						
<i>Labidocera triaspinosa</i>		12				
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus spp.</i>						
Ctenocalanidae						
<i>Ctenocalanus varus</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Temoridae						
<i>Temora discodata</i>						
Tortoniidae						
<i>Tortona discedatus</i>						
Copepoda caligoida						
Copepoda cyclopoida						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus spp.</i>						
Parricula curta						

January-June 1977

## PLANKTON DATA

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithonidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>						
<i>Oithona similis</i>	12					
<i>Oithona spinirostris</i>						
<i>Oithona sp.</i>						
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncaea sp.</i>	12					
Copepoda-harpacticoida					3	
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpina acutifrons</i>					3	
Cumacea						
Decapoda						
Anomura (zoea)						
Anomura-porcellanidae (zoea)						
<i>Brachyura</i> (zoa, megalopa)						
Caridea (zoa)						
Macrura (zoa)						
Penaeida (zoa)						
Euphausiacea (calyptosis)						
Isopoda						
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)						
CNIDARIA						
Hydrozoa (medusae)						
Siphonophora						

CHAETOGNATH					
CHORDATA					6
Ascidioacea (larvae)					3
Larvacea					10
Thaliacea					3
Vertebrata					
Osteichthys (eggs larvae)					1
CTENOPHORA					
ECHINODERDATA					
Echinoidea (echinopluteus)					
Holothuroidea (auricularia)					
Ophiuroidea (ophiopluteus)					
MOLLUSCA					
Gastropoda (veliger)					
Pteropoda					
Pelecyopoda (veliger)					
NEMATODA					
PLATHELMINTHES					
Trematoda (cercaria)					
PHORONIDA (actinotroch)					

PLANKTON DATA	July-December 1976				STATION MDR-7			
	Jul	Aug	Sep	Oct	Nov	Dec		
ANNELIDA POLYCHAETA	14				13			
ARTHROPODA CRUSTACEA								
Amphipoda								
Gammaridae	2	5						
Caprellidae								
Cirripedia	2	24						
(nauplius, cypris)								
Cladocera								
<i>Eurydine nordmanni</i>								
<i>Eucalanus spinifera</i>								
<i>Penilia avirostris</i>								
<i>Podon polypnemoides</i>								
Copepoda calanoida	1							
(nauplius, copepodite)								
Acartiidae								
<i>Acartia californiensis</i>			18		13		6	
<i>Acartia clausi</i>								
<i>Acartia danae</i>								
<i>Acartia negligens</i>								
<i>Acartia tonsa</i>								
<i>Acartia</i> spp. *	48	3,449	3,932	11,760	2,678	47,296		
Calanidae								
<i>Calanus pacificus</i>								
<i>Calanus tenuicornis</i>								
<i>Calanus</i> spp.								
Calocalanidae								
<i>Calocalanus pavo</i>								
<i>Calocalanus styliferensis</i>								
<i>Ischnocalanus tenuis</i>								
<i>Mecynocera clausi</i>								
Centropagidae								
<i>Centropages bradyi</i>								
Eucalanidae								
<i>Eucalanus bungi</i>								
<i>Eucalanus crassus</i>								
<i>Eucalanus</i> spp.								
<i>Rhincalanus nasutus</i>								

\**Acartia tonsa* + *A. californiensis*.

July-December 1976

## PLANKTON DATA

ARTHOPODA CRUSTACEA (cont.)	Jul	Aug	Sep	Oct	Nov	Dec
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flavigornis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>						
Pontellidae						
<i>Labidocera jollae</i>						
<i>Labidocera trispinosa</i>						
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parpergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus</i> spp.						
<i>Ctenocalanus vanus</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Temoridae						
<i>Temora discata</i>						
Tortonidae						
<i>Tortona discutatus</i>						
Copepoda caligoida						
Copepoda cyclopoida						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus</i> spp.						
<i>Parramia curta</i>						

## PLANKTON DATA

July-December 1976

STATION MDR-7

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithonidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>						
<i>Oithona similis</i>						
<i>Oithona spinirostris</i>						
<i>Oithona</i> sp.						
Onceridae						
<i>Oncæa dentipes</i>						
<i>Oncæa media</i>						
<i>Oncæa mediterranea</i>						
<i>Oncæa similis</i>						
<i>Oncæa vernata</i>						
<i>Oncæa</i> sp.						
Copepoda-harpacticoida						
Ectinocomiidae						
<i>Microsetella norvegica</i>						
Tachididae						
<i>Euterpina acutifrons</i>						
Cumacea						
Decapoda						
Anomura (zoea)						
Anomura-porcellanidae (zoea)						
Brachyura (zoea, megalopa)	3					
Caridea (zoea)						
Macrura (zoea)						
Penaeida (zoea)						
Euphausiacea (calyptosis)						
Isopoda	5					
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)	1					
CNIDARIA						
Hydrozoa (medusae)	10					
Siphonophora	128					

## PLANKTON DATA

July-December 1976

STATION MDR-7

	Jul	Aug	Sep	Oct	Nov	Dec
CHAETOGNATH				9		
CHORDATA						
Ascidacea (larvae)	36	81		13	6	
Larvacea						
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)	14					
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda						
Pelecypoda (veliger)						
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

January-June 1977

## PLANKTON DATA

	Jan	Feb	Mar	Apr	May	Jun
ANNELIDA POLYCHAETA						
ARTHROPODA CRUSTACEA						
Amphipoda						
Gammaridae						
Caprellidae						
Cirripedia						3
(nauplius, cypris)						
Cladocera						
<i>Eurodne nordmanni</i>						
<i>Eudine spinifera</i>						
<i>Penilia avirostris</i>						
<i>Podon polyphemoides</i>						
Copepoda calanoida						
(nauplius, copepodite)						
Acartiidae						
<i>Acartia californiensis</i>						
<i>Acartia clausi</i>						377
<i>Acartia danae</i>						
<i>Acartia negligens</i>						
<i>Acartia tonsa</i>						
<i>Acartia spp. *</i>						
Calanidae						
<i>Calanus pacificus</i>						
<i>Calanus tenuicornis</i>						
<i>Calanus spp.</i>						
Calocalanidae						
<i>Calocalanus pavo</i>						
<i>Calocalanus stylifermis</i>						
<i>Ischnocalanus tenuis</i>						
<i>Mecynocera clausi</i>						
Centropagidae						
<i>Centropages bradyi</i>						
Eucalanidae						
<i>Eucalanus bungi</i>						
<i>Eucalanus crassus</i>						
<i>Eucalanus spp.</i>						
<i>Rhincalanus nasutus</i>						

\**Acartia tonsa* + *A. californiensis*.

## PLANKTON DATA

	January-June 1977					STATION MDR-7	
	Jan	Feb	Mar	Apr	May	Jun	
<b>ARTHROPODA CRUSTACEA (cont.)</b>							
Copepoda calanoida (cont.)							
Lucicutiidae							
<i>Lucicutia flavidornis</i>							
Paracalanidae							
<i>Paracalanus parvus</i>	28						
Pontellidae							
<i>Labidocera jollae</i>							
<i>Labidocera trispinosa</i>							
Pseudocalanidae							
<i>Clausocalanus arcuicornis</i>							
<i>Clausocalanus farrani</i>							
<i>Clausocalanus furcatus</i>							
<i>Clausocalanus jobei</i>							
<i>Clausocalanus lividus</i>							
<i>Clausocalanus mastigophorus</i>							
<i>Clausocalanus parapergens</i>							
<i>Clausocalanus paululus</i>							
<i>Clausocalanus pergens</i>							
<i>Clausocalanus</i> spp.							
<i>Ctenocalanus varius</i>							
Pseudocyclopidae							
<i>Pseudocyclops bilobatus</i>							
Pseudodiaptomidae							
<i>Pseudodiaptomus euryhalinus</i>							
Temoridae							
<i>Temora discodata</i>							
Tortoniidae							
<i>Tortamus discurdatus</i>							
Copepoda caligoida							
Copepoda cyclopoida							
Corycaeididae							
<i>Corycaeus amazonicus</i>							
<i>Corycaeus anglicus</i>							84
<i>Corycaeus flaccus</i>							
<i>Corycaeus furcifer</i>							
<i>Corycaeus griesbrecthi</i>							
<i>Corycaeus</i> spp.							
<i>Parramula curta</i>							

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithonidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>						
<i>Oithona similis</i>						9
<i>Oithona spinirostris</i>						
<i>Oithona sp.</i>						
Oncidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncaea sp.</i>						
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpina acutifrons</i>						
Cumacea						
Decapoda						
<i>Anomura (zoea)</i>						
<i>Anomura-porcellanidae (zoea)</i>						
<i>Brachyura (zoea, megalopa)</i>						
<i>Caridea (zoea)</i>						
<i>Macrura (zoea)</i>						
<i>Penaeida (zoea)</i>						
<i>Euphausiacea (calyptosis)</i>						
Isopoda						
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)						
CNIDARIA						
Hydrozoa (medusae)						
Siphonophora						
						84

	Jan	Feb	Mar	Apr	May	Jun
CHAETOGNATH						
CHORDATA						
Asciidiacea (larvae)						
Larvacea						
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)	338					
CTENOPHORA						
ECHINODERATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda						
Pelecypoda (veliger)						
NEMATODA						
PLATHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

## PLANKTON DATA

July-December 1976

STATION MDR-8

	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA	9	2	-	-	-	3
ARTHROPODA CRUSTACEA						
Amphipoda						
Gammaridae					3	
Caprellidae					6	
Cirripedia (nauplius, cypris)	28	9				
Cladocera						
Eurydine nordmanni					42	
Eudine spinifera						
Penilia avirostris					3	
Podon polyphemoides	9		1		6	
Copepoda calanoida (nauplius, copepodite)	9					
Acartiidae						
Acartia californiensis*						
Acartia clausi				1		42
Acartia danae						
Acartia negligens						
Acartia tonsa						
Acartia spp.*	2,154	7,190				
Calanidae						
Calanus pacificus						
Calanus temicornis						
Calanus spp.						
Calocalanidae						
Calocalanus pavo						
Calocalanus styliferinus*						
Ischnocalanus tenuis						
Mecynocera clausi						
Centropagidae						
Centropages bradyi						
Eucalanidae						
Eucalanus bungii						
Eucalanus crassus						
Eucalanus spp.						
Rhincalanus nasutus						

*\*Acartia tonsa + A. californiensis.*

## PLANKTON DATA

July-December 1976

STATION MDR-8

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Iucicutidae						
<i>Lucicutia flavigornis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>						
Pontellidae						
<i>Labidocera jollae</i>						
<i>Labidocera trispinosa</i>						
Pseudocalanidae						
<i>Clausocalanus arcicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus</i> spp.						
<i>Ctenocalanus vanus</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Temoridae						
<i>Temora discudata</i>						
Tortaniidae						
<i>Tortanus discudatus</i>						
Copepoda caligoida						
Copepoda cyclopoida						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus</i> spp.						
<i>Parramyla curta</i>						

## PLANKTON DATA

July-December 1976

STATION MDR-8

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithonidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>						
<i>Oithona similis</i>						
<i>Oithona spinirostris</i>						
<i>Oithona</i> sp.						
Oncidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncaea</i> sp.						
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachididae						
<i>Euterpinia acutifrons</i>						
Cumacea						
Decapoda						
Anomura (zoea)						
Anomura-porcellanidae (zoea)						
<i>Brachyura</i> (zoea, megalopa)						
Caridea (zoea)						
Macrura (zoea)						
Penaeida (zoea)						
Euphausiacea (calyptosis)						
Isopoda						
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)						
CNIDARIA						
Hydrozoa (medusae)						
Siphonophora						

July-December 1976

## PLANKTON DATA

	Jul	Aug	Sep	Oct	Nov	Dec
CHAETOGNATH						
CHORDATA						
Ascidacea (larvae)	32	94	10	13	3	
Larvacea						
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)						
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda						
Pelecyopoda (veliger)						
NEMATODA						
PLATYHELMINTHES						
Trematoda (cerkaria)						
PHORONIDA (actinotroch)						

## PLANKTON DATA

January-June 1977

STATION MDR-8

	Jan	Feb	Mar	Apr	May	Jun
ANNELIDA POLYCHAETA						
ARTHROPODA CRUSTACEA						
Amphipoda						
Gammaridae						
Caprellidae						
Cirripedia (nauplius, cypris)						
Cladocera						
<i>Evdadne nordmanni</i>						
<i>Evdadne spinifera</i>						
<i>Penilia avirostris</i>						
<i>Podon polypnemoides</i>						
Copepoda calanoida (nauplius, copepodite)						
Acartiidae						
<i>Acartia californiensis</i>						
<i>Acartia clausi</i>						
<i>Acartia danae</i>						
<i>Acartia negligens</i>						
<i>Acartia tonsa</i>						
<i>Acartia</i> spp. *	11,553	13,099				
Calanidae						
<i>Calanus pacificus</i>						
<i>Calanus tenuicornis</i>						
<i>Calanus</i> spp.						
Calocalanidae						
<i>Calocalanus pavo</i>						
<i>Calocalanus styliferinus</i>						
Ischnocalanus tenuis						
Mecynocera clausi						
Centropagidae						
<i>Centropages bradyi</i>						
Eucalanidae						
<i>Eucalanus bungi</i>						
<i>Eucalanus crassus</i>						
<i>Eucalanus</i> spp.						
Rhinecalanus nasutus						

\**Acartia tonsa* + *A. californiensis*.

## PLANKTON DATA

January-June 1977

Page 2 of 4

STATION MDR-8

ARTHOPODA CRUSTACEA (cont.)	Jan	Feb	Mar	Apr	May	Jun
<i>Copepoda calanoida</i> (cont.)						
<i>Lucicutiidae</i>						
<i>Lucicutia flaviicornis</i>						
<i>Paracalanidae</i>						
<i>Paracalanus parvus</i>						
<i>Pontellidae</i>						
<i>Labidocera jollae</i>						
<i>Labidocera trispinosa</i>						
<i>Pseudocalanidae</i>						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus</i> spp.						
<i>Ctenocalanus vanus</i>						
<i>Pseudocyclopidae</i>						
<i>Pseudocyclops bilobatus</i>						
<i>Pseudodiaptomidae</i>						
<i>Pseudodiaptomus euryhalinus</i>						
<i>Tenoridae</i>						
<i>Tenora discaudata</i>						
<i>Tortanidae</i>						
<i>Tortanus discedatus</i>						
<i>Copepoda caligoida</i>						
<i>Copepoda cyclopoida</i>						
<i>Corycaeidæ</i>						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus</i> spp.						
<i>Farrula curta</i>						

January-June 1977

## PLANKTON DATA

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithonidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>						
<i>Oithona similis</i>						
<i>Oithona spinirostris</i>						
<i>Oithona sp.</i>	2					
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncaea sp.</i>			12			
Copepoda-harpacticoida						
Ectiniosomidae						
<i>Microsetella norvegica</i>						
Tachididae						
<i>Euterpina acutifrons</i>						
Cumacea						
Decapoda						
Anomura (zoea)						
Anomura-porcellanidae (zoea)						
Brachyura (zoea, megalopa)						
Caridea (zoea)						
Macrura (zoea)						
Penaeida (zoea)						
Euphausiacea (calyptopsis)						
Isopoda						
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)						
CNIDARIA						
Hydrozoa (medusae)						
Siphonophora	2					

January-June 1977

## PLANKTON DATA

	Jan	Feb	Mar	Apr	May	Jun
CHAETOGNATH						
CHORDATA						
Asciidae (larvae)						
Larvacea						
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)						
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda						
Pelecyopoda (veliger)						
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

PLANKTON DATA	STATION MDR-9				
	Jul	Aug	Sep	Oct	Nov
<b>ANNELETTA POLYCHAETA</b>					
<b>ARTHROPODA CRUSTACEA</b>					
Amphipoda					26
Gammaridae	49	17			
Caprellidae	10				
Cirripedia (nauplius, cypris)	99	17			
Cladocera					
Eudadne nonchitanci					
Evadne spinifera					26
Perilia avirostris					26
Podon polyphemoides					2
Copepoda calanoida (nauplius, copepodite)					
Acartiidae					
Acartia californiensis					30
Acartia clausi					
Acartia danae					
Acartia negligens					
Acartia tonga					
Acartia spp. *	4,496	9,567	920		4,159
Calanidae					15,355
Calanus pacificus					
Calanus tenuicornis					
Calanus spp.					
Calocalanidae					
Calocalanus pavo					
Calocalanus styliremis					
Ischnocalanus tenuis					
Meynocera clausi					
Centropagidae					
Centropages bradyi					
Eucalanidae					
Eucalanus bungi					
Eucalanus crassus					
Eucalanus spp.					
Rhincalanus nasutus					
<i>*Acartia tonga + A. californiensis.</i>					

PLANKTON DATA	July-December 1976					STATION MDR-9	
	JUL	AUG	SEP	OCT	NOV	DEC	
ARTHROPODA CRUSTACEA (cont.)							
Copepoda calanoida (cont.)							
Iucicutidae							
<i>Iucicutia flavigornis</i>							
Paracalanidae							
<i>Paracalanus parvus</i>							
pontellidae							
<i>Labidocera jollae</i>							
Labidocera triispinosa	10						
Pseudocalanidae							
<i>Clausocalanus arcuicornis</i>							
<i>Clausocalanus farrani</i>							
<i>Clausocalanus furcatus</i>							
<i>Clausocalanus jobei</i>							
<i>Clausocalanus lividus</i>							
<i>Clausocalanus mastigophorus</i>							
<i>Clausocalanus paropergens</i>							
<i>Clausocalanus paululus</i>							
<i>Clausocalanus pengens</i>							
<i>Clausocalanus</i> spp.							
<i>Ctenocalanus varius</i>							
Pseudocyclopidae							
<i>Pseudocyclops bilobatus</i>							
Pseudodiaptomidae							
<i>Pseudodiaptomus euryhalinus</i>							
Temoridae							
<i>Temora discata</i>							
Tortaniidae							
<i>Tortamus discandatus</i>							
Copepoda caligoida							
Copepoda cyclopoida							
Corycaeidae							
<i>Corycaeus amazonicus</i>							
<i>Corycaeus anglicus</i>							
<i>Corycaeus flaccus</i>							
<i>Corycaeus furcifer</i>							
<i>Corycaeus giesbrechti</i>							
<i>Corycaeus</i> spp.							
<i>Farramila curta</i>							

July-December 1976

## PLANKTON DATA

	Jul	Aug	Sep	Oct	Nov	Dec
<b>AETHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithoniidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>						
<i>Oithona similis</i>						
<i>Oithona spinirostris</i>						
<i>Oithona</i> sp.						
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncaea</i> sp.	10	17	4			
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpnina acutifrons</i>						
Cumacea						
Decapoda						
Anomura (zoea)	39					
Anomura-porcellanidae (zoea)						
Brachyura (zoea, megalopa)	30					
Caridea (zoea)	10					
Macrura (zoea)	87					
Penaeida (zoea)						
Euphausiaceae (calyptopsis)						
Isopoda	17	2				
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)						
CNIDARIA						
Hydrozoa (medusae)						
Siphonophora	4					

July-December 1976

## PLANKTON DATA

	Jul	Aug	Sep	Oct	Nov	Dec
CHAETOGNATH						
CHORDATA						
Asciidae (Larvae)	148	174	16			
Larvacea						
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)	39	35				
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)	10					
Pteropoda						
Pelecyopoda (veliger)	35					
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

## PLANKTON DATA

January-June 1977

STATION MDR-9

	Jan	Feb	Mar	Apr	May	Jun
ANNELIDA POLYCHAETA						
ARTHROPODA CRUSTACEA						
Amphipoda						
Gammaridae						
Caprellidae						
Cirripedia						
(nauplius, cypris)						
Cladocera	10					
<i>Eudadne nordmanni</i>						
<i>Eudadne spinifera</i>						
<i>Penilia avirostris</i>						
<i>Podon polyphtalmoides</i>	4					
Copepoda calanoida						
(nauplius, copepodite)						
Acartiidae						
<i>Acartia californiensis</i>						
<i>Acartia clausi</i>						
<i>Acartia dance</i>						
<i>Acartia negligens</i>						
<i>Acartia tonsa</i>						
<i>Acartia</i> spp.*	7,099	11,290	4,396	76,406	44,808	90
Calanidae						
<i>Calanus pacificus</i>						
<i>Calanus tenuicornis</i>						
<i>Calanus</i> spp.						
Calocalanidae						
<i>Calocalanus pavo</i>						
<i>Calocalanus styliferemis</i>						
<i>Tschornozanus tenuis</i>						
<i>Mecynocera clausi</i>						
Centropagidae						
<i>Centropages bradyi</i>						
Eucalanidae						
<i>Eucalanus bungi</i>						
<i>Eucalanus crassus</i>						
<i>Eucalanus</i> spp.						
<i>Rhincalanus nasutus</i>						

\* *Acartia tonsa* + *A. californiensis*.

## PLANKTON DATA

January-June 1977

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STATION MDR-9

ARTHOPODA CRUSTACEA (cont.)	Jan	Feb	Mar	Apr	May	Jun
Copepoda calanoida (cont.)						
Lucicuttiidae						
<i>Lucicutia flavicornis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>	10					
Pontellidae						
<i>Labidocera jollas</i>						
<i>Labidocera triapinosa</i>	36					
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus fireatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus spp.</i>						
<i>Ctenocalanus vanus</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Temoridae						
<i>Temora discaudata</i>						
Tortaniidae						
<i>Tortania descendantus</i>						
Copepoda caligoida						
Copepoda cyclopoida						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus spp.</i>						
<i>Farranula curta</i>						
						18
						41

## PLANKTON DATA

January-June 1977

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STATION MDR-9

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	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithonidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>						
<i>Oithona similis</i>						
<i>Oithona spinirostris</i>						
<i>Oithona sp.</i>						
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncaea sp.</i>						
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpinia acutifrons</i>						
Cunaceae						
Decapoda						
Anomura (zoea)						
Anomura-porcellanidae (zoea)						
<i>Brachyura</i> (zoea, megalopa)	460	967	7			
Caridea (zoea)	10	55	4	124	4	
Macrura (zoea)				124	5	
Penaeida (zoea)						
Euphausiacea (calyptopsis)						
Isopoda						
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)						
CNIDARIA						
Hydrozoa (medusae)	20	36				
Siphonophora						
					98	5

January-June 1977

## PLANKTON DATA

	Jan	Feb	Mar	Apr	May	Jun
CHAETOGNATH						
CHORDATA						
Ascidiae (larvae)						
Larvacea						
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)	73					
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda						
Pelecyopoda (veliger)						
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

## PLANKTON DATA

July-December 1976

STATION MDR-10

	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA	5	8				
ARTHROPODA CRUSTACEA						
Amphipoda						
Gammaridae						
Caprellidae						
Cirripedia	11	8				
(nauplius, cypris)						
Cladocera						
<i>Eucadne nordmanni</i>						
<i>Eudine spinifera</i>						118
<i>Penitilia avirostris</i>						237
<i>Podon polyphemoides</i>						42
Copepoda calanoida						
(nauplius, copepodite)						
Acartiidae						
Acartia <i>californiensis</i> *						
Acartia <i>clausi</i>						
Acartia <i>dance</i>						
Acartia <i>negligens</i>						
Acartia <i>tonsa</i>						
Acartia spp.*	2,603	7,392	3,021	6,305	19,487	89,094
Calanidae						
<i>Calanus pacificus</i>						
<i>Calanus tenuicornis</i>						
<i>Calanus</i> spp.						
Calocalanidae						
<i>Calocalanus pavo</i>						
<i>Calocalanus styliferme</i>						
<i>Ischnocalanus tenuis</i>						
<i>Mecynocera clausi</i>						
Centropagidae						
<i>Centropages bradyi</i>						
Eucalanidae						
<i>Eucalanus bungi</i>						
<i>Eucalanus crassus</i>						
<i>Eucalanus</i> spp.						
<i>Rhincalanus nasutus</i>						

\*Acartia *tonsa* + *A. californiensis*.

July-December 1976

## PLANKTON DATA

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
<b>Copepoda calanoida (cont.)</b>						
<i>Lucicutiidae</i>						
<i>Lucicutia flavigomis</i>						
<i>Paracalanidae</i>						
<i>Paracalanus parvus</i>						
<i>Pontellidae</i>						
<i>Labidocera jollae</i>						
<i>Labidocera trispinosa</i>						
<i>Pseudocalanidae</i>						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus spp.</i>						
<i>Ctenocalanus varus</i>						
<i>Pseudocyclopidae</i>						
<i>Pseudocyclops bilobatus</i>						
<i>Pseudodiaptomidae</i>						
<i>Pseudodiaptomus euryhalinus</i>						
<i>Temoridae</i>						
<i>Temora discodata</i>						
<i>Tortaniidae</i>						
<i>Tortanus discudatus</i>						
<i>Copepoda caligoida</i>						
<i>Copepoda cyclopoida</i>						
<i>Corycaeidae</i>						
<i>Corycaeus amasonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus spp.</i>						
<i>Farrula curta</i>						
						8
						4

	Jul	Aug	Sep	Oct	Nov	Dec	
<b>ARTHROPODA CRUSTACEA (cont.)</b>							
Copepoda cyclopoida (cont.)							
Oithonidae							
<i>Oithona oculata</i>							
<i>Oithona plumifera</i>							
<i>Oithona similis</i>							
<i>Oithona spinirostris</i>							
<i>Oithona</i> sp.							
Oncaeidae							
<i>Oncaea dentipes</i>							
<i>Oncaea media</i>							
<i>Oncaea mediterranea</i>							
<i>Oncaea similis</i>							
<i>Oncaea venusta</i>							
<i>Oncaea</i> sp.							
Copepoda-harpacticoida							
Ectinosomidae							
<i>Microsetella norvegica</i>							
Tachididae							
<i>Euterpinia acutifrons</i>							
Cumacea							
Decapoda							
Anomura (zoea)				5			
Anomura-porcellanidae (zoea)							
Brachyura (zoea, megalopa)							
Caridea (zoea)							
Macrura (zoea)				8			
Penaeida (zoea)					17		
Euphausiacea (calyptosis)							
Isopoda						34	
Mysidacea							
Ostracoda							
Pychnogonida							
BRACHIOPODA (larvae)							
BRYOZOA (cyphonautes)							
CNIDARIA							
Hydrozoa (medusae)							
Siphonophora							

July-December 1976

## PLANKTON DATA

	Jul	Aug	Sep	Oct	Nov	Dec
CHAETOGNATH						
CHORDATA						
Ascidacea (larvae)	143	84	51	78	64	
Larvacea						
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)						
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda						
Pelecypoda (veliger)						
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

PLANKTON DATA	January-June 1977					STATION MDR-10	
	Jan	Feb	Mar	Apr	May	Jun	
ANNELIDA POLYCHAETA							
ARTHROPODA CRUSTACEA							
Amphipoda							
Gammaridae							
Caprellidae							
Cirripedia (nauplius, cypris)	14						
Cladocera							
<i>Endone noridmani</i>							
<i>Evadne spinifera</i>							
<i>Penilia antrostris</i>							
<i>Podon polyphemoides</i>							
Copepoda calanoida (nauplius, copepodite)							
Acartiidae							
<i>Acartia californiensis</i>							
<i>Acartia clausi</i>							
<i>Acartia danae</i>							
<i>Acartia negligens</i>							
<i>Acartia tonsa</i>							
<i>Acartia spp. *</i>							
Calanidae							
<i>Calanus pacificus</i>							
<i>Calanus tenuicornis</i>							
<i>Calanus spp.</i>							
Calocalanidae							
<i>Calocalanus pavo</i>							
<i>Calocalanus styliferus</i>							
<i>Ischnocalanus tenuis</i>							
<i>Mecynocera clausi</i>							
Centropagidae							
<i>Centropages bradyi</i>							
Eucalanidae							
<i>Eucalanus bungi</i>							
<i>Eucalanus crassus</i>							
<i>Eucalanus spp.</i>							
<i>Rhincalanus nasutus</i>							

\**Acartia tonsa* + *A. californiensis*.

January-June 1977

## PLANKTON DATA

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flavigornis</i>						
Paracalanidae						
<i>Parocalanus parvus</i>						
Pontellidae						
<i>Labidocera jollae</i>						
<i>Labidocera trispinosa</i>						
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus</i> spp.						
<i>Ctenocalanus vanus</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalimus</i>						
Tenoridae						
<i>Tenora discudata</i>						
Tortaniidae						
<i>Tortania discudatus</i>						
Copepoda caligida						
<i>Copepoda cyclopoida</i>						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus</i> spp.						
<i>Paratunula curta</i>						

## PLANKTON DATA

January-June 1977

STATION MDR-10

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithonidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>						
<i>Oithona similis</i>						
<i>Oithona spinirostris</i>	14					
<i>Oithona sp.</i>						
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea vernuta</i>						
<i>Oncaea sp.</i>						
Copepoda-harpacticoida	28					
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpina acutifrons</i>	61					
Cumacea						
Decapoda						
Anomura (zoea)						
<i>Anomura-porcellanidae</i> (zoea)						
<i>Brachyura</i> (zoea, megalopa)	128					
<i>Caridea</i> (zoea)						
<i>Macrura</i> (zoea)						
<i>Penaeida</i> (zoea)						
<i>Euphausiacea</i> (calyptopsis)						
Isopoda	28					
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)						
CNIDARIA						
Hydrozoa (medusae)	47					
Siphonophora	1					

January-June 1977

STATION MDR-10

	Jan	Feb	Mar	Apr	May	Jun
CHAETOGNATH						
CHORDATA						
Ascidacea (larvae)					7	1
Larvacea					25	6
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)						
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda						
Pelecyopoda (veliger)						
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

PLANKTON DATA	STATION MDR-11			
	Jul	Aug	Sep	Oct
	July-December 1976			
<b>ANNELIDA POLYCHAETA</b>				
<b>ARTHROPODA CRUSTACEA</b>				
Amphipoda				
Gammaridae	1	1		
Caprellidae				
Cirripedia	125	18	1	38
(nauplius, cypris)				
Cladocera	2			
<i>Eucdne nordmanni</i>				
<i>Evdne spinifera</i>				
<i>Penilia avirostris</i>				
<i>Podon polyphemoides</i>	9	38	7	
Copepoda calanoida				
(nauplius, copepodite)				
Acartiidae				
<i>Acartia californiensis</i>				
<i>Acartia clausi</i>			1	
<i>Acartia danae</i>				
<i>Acartia negligens</i>				
<i>Acartia tonsa</i>				
<i>Acartia</i> spp.*	1,153	350	504	604
Calanidae				
<i>Calanus pacificus</i>				
<i>Calanus tenuicornis</i>				
<i>Calanus</i> spp.				
Calocalanidae				
<i>Calocalanus pavo</i>				
<i>Calocalanus styliferinus</i>				
Ischnocalanus tenuis				
Mecynocera clausi				
Centropagidae				
<i>Centropages bradyi</i>				
Eucalanidae				
<i>Eucalanus bungi</i>				
<i>Eucalanus crassus</i>				
<i>Eucalanus</i> spp.				
Rhinocalanus nasutus				

\**Acartia tonsa* + *A. californiensis*.

PLANKTON DATA

July-December 1976

STATION MNB-11

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Inicutiidae						
<i>Iucinutia flaviicornis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>						
Pontellidae						
<i>Labidocera jollae</i>						
<i>Labidocera trispinosa</i>						
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus</i> spp.						
<i>Ctenocalanus varus</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus erythrinus</i>						
Temoridae						
<i>Temora discaudata</i>						
Tortanidae						
<i>Tortanus discodatatus</i>						
Copepoda caligoida						
Copepoda cyclopoida						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus</i> spp.						
<i>Farrania curta</i>						

July-December 1976

## PLANKTON DATA

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
<b>Copepoda cyclopoids (cont.)</b>						
Oithonidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>						
<i>Oithona similis</i>						
<i>Oithona spinirostris</i>						
<i>Oithona</i> sp.						
Oncellidae						
<i>Oncæa dentipes</i>						
<i>Oncæa media</i>						
<i>Oncæa mediterranea</i>						
<i>Oncæa similis</i>						
<i>Oncæa venusta</i>						
<i>Oncæa</i> sp.						
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpnina acutifrons</i>	1					
Cumacea						
Decapoda						
<i>Anomura</i> (zoea)	2					
<i>Anomura-porcellanidae</i> (zoea)						
<i>Brachyura</i> (zoea, megalopa)	9	1				
<i>Caridea</i> (zoea)	2					
<i>Macrura</i> (zoea)				12		
<i>Penaeida</i> (zoea)						
<i>Euphausiacea</i> (calyptopsis)						
Isopoda						
Mysidacea	2					
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)						
CNIDARIA						
Hydrozoa (medusae)	1					
Siphonophora						

July-December 1976

## PLANKTON DATA

	Jul	Aug	Sep	Oct	Nov	Dec
CHAETOGNATH						
CHORDATA						
Ascidacea (larvae)	108	40	5			
Larvacea						
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)	5	4				
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda						
Pelecypoda (veliger)						
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

## JANUARY-JUNE 1977

STATION MDR-11

## PLANKTON DATA

	Jan	Feb	Mar	Apr	May	Jun
ANNELIDA POLYCHAETA						
ARTHROPODA CRUSTACEA						
Amphipoda	2					
Gammaridae		2				
Caprellidae						
Cirripedia	8					
(nauplius, cypris)						
Cladocera						
<i>Eucadne nordmanni</i>						
<i>Eudrene spinifera</i>						
<i>Perilia avirostris</i>						
<i>Podon polyphemoides</i>	111					
Copepoda calanoida						
(nauplius, copepodite)						
Acartiidae						
<i>Acartia californiensis</i>						
<i>Acartia clausi</i>						
<i>Acartia danae</i>						
<i>Acartia negligens</i>						
<i>Acartia tonsa</i>						
<i>Acartia</i> spp. *	1,655					
Calanidae						
<i>Calanus pacificus</i>						
<i>Calanus tenuicornis</i>						
<i>Calanus</i> spp.						
Calocalanidae						
<i>Calocalanus pavo</i>						
<i>Calocalanus styliremis</i>						
<i>Technocalanus tenue</i>						
<i>Mecynocera clausi</i>						
Centropagidae						
<i>Centropages bradyi</i>						
Eucalanidae						
<i>Eucalanus bungi</i>						
<i>Eucalanus orcaesus</i>						
<i>Eucalanus</i> spp.						
<i>Rhincalanus nasutus</i>						

\**Acartia tonsa* + *A. californiensis*.

## PLANKTON DATA

January-June 1977

STATION MDR-11

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flavicornis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>	32			56		
Pontellidae						
<i>Labidocera jollae</i>						1
<i>Labidocera trispinosa</i>						
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus spp.</i>						
<i>Ctenocalanus varius</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Tenoridae						
<i>Tenora discaudata</i>						
Tortaniidae						
<i>Tortanus discandatus</i>						
Copepoda caligoida						
Copepoda cyclopoida						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus spp.</i>						
<i>Paratula curta</i>						
	8			56		
						3

## PLANKTON DATA

January-June 1977

STATION MDR-11

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithonidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>						
<i>Oithona similis</i>						
<i>Oithona spinirostris</i>						
<i>Oithona</i> sp.						
Oncaeidae						
<i>Oncea dentipes</i>						
<i>Oncea media</i>						
<i>Oncea mediterranea</i>						
<i>Oncea similis</i>						
<i>Oncea venusta</i>						
<i>Oncea</i> sp.						
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpina acutifrons</i>						
Cumacea						
Decapoda						
Anomura (zoea)						
Anomura-porcellanidae (zoea)						
Brachyura (zoea, megalopa)						
Caridea (zoea)						
Macrura (zoea)						
Penaeida (zoea)						
Euphausiacea (calyptosis)						
Isopoda						
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)						
CNIDARIA						
Hydrozoa (medusae)						
Siphonophora						
						4
						18
						10
						13

## PLANKTON DATA

January-June 1977

Page 4 of 4  
STATION MDR-11

	Jan	Feb	Mar	Apr	May	Jun
CHAETOGNATH						
CHORDATA	8					
Asciidiacea (larvae)						
Larvacea						
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)						
CTENOPHORA	18					
ECHINODERDATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda						
Pelecypoda (veliger)						
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

PLANKTON DATA	July-December 1977					STATION MDR-1		
	Jul	Aug	Sep	Oct	Nov	Dec		
ANNELIDA POLYCHAETA	35							
ARTHROPODA CRUSTACEA								
Amphipoda								
Gammaridae	18							
Caprellidae								
Cirripedia	35	1	1	14	35	22		
(nauplius, cypris)								
Cladocera								
<i>Eucadne nordmanni</i>	97	170	2	25	91			
<i>Eucadne spinifera</i>		49	1	12	5	22		
<i>Penilia avirostris</i>		18	8	356	613	883		
<i>Podon polypnemoides</i>	2,798	5	1					
Copepoda calanoida	9	13	1	1	5	45		
(nauplius, copepodite)								
Acartiidae								
<i>Acartia californiensis</i>								
<i>Acartia clausi</i>	370							
<i>Acartia danae</i>					2		35	11
<i>Acartia negligens</i>								123
<i>Acartia tonsa</i>								
<i>Acartia</i> spp.*								
Calanidae	1,892	281	57	95	923	615		
<i>Calanus pacificus</i>								
<i>Calanus tenuicornis</i>								
<i>Calanus</i> spp.								
Calocalanidae								
<i>Calocalanus pavo</i>								
<i>Calocalanus styliferinus</i>								
<i>Ischnocalanus temis</i>								
<i>Mecynocera clausi</i>								
Centropagidae								
<i>Centropages bradyi</i>								
Eucalanidae								
<i>Eucalanus bungi</i>								
<i>Eucalanus crassus</i>								
<i>Eucalanus</i> spp.								
<i>Rhincalanus nasutus</i>								

\**Acartia tonsa* + *A. californiensis*.

## PLANKTON DATA

July-December 1977

STATION MDR-1

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
<i>Lucicutia flavigaster</i>						
Paracalanidae						
<i>Paracalanus parvus</i>	343	123	28	25	141	458
Pontellidae						
<i>Labidocera jollae</i>	9	1	1	13	13	22
Labidocera trispinosa						
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus</i> spp.						
<i>Ctenocalanus vanus</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Temoridae						
<i>Temora discaudata</i>						
Tortaniidae						
<i>Tortanus discandatus</i>	1					
Copepoda caligoida						
Copepoda cyclopoida						
Corycaeidae						
<i>Corycaeus amazonicus</i>	1					
<i>Corycaeus anglicus</i>	9	2				
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus</i> spp.						
<i>Parrambla curta</i>						

## PLANKTON DATA

July-December 1977

STATION MDR-1

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithoniidae						
<i>Oithona oculata</i>	18					
<i>Oithona plumifera</i>		12				
<i>Oithona similis</i>	79	4	2	1	3	22
<i>Oithona spinirostris</i>						11
<i>Oithona</i> sp.				1		
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea vermuta</i>						
<i>Oncaea</i> sp.	6			1		11
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpnina acutifrons</i>				4		
Cumacea						
Decapoda						
<i>Anomura</i> (zoea)						
<i>Anomura-porcellanidae</i> (zoea)						
<i>Brachyura</i> (zoea, megalopa)						
<i>Caridea</i> (zoea)						
<i>Macrura</i> (zoea)						
<i>Penaeida</i> (zoea)						
<i>Euphausiaceae</i> (calyptopsis)						
Isopoda						
Mysidacea						
Ostracoda					1	
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautas)						
CNIDARIA						
Hydrozoa (medusae)						
Siphonophora						

## PLANKTON DATA

July-December 1977

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STATION MDR-1

	Jul	Aug	Sep	Oct	Nov	Dec
CHAETOGNATH	9	14	4	4	53	11
CHORDATA						
Ascidacea (larvae)		3		2		
Larvacea	176	14	16	141	181	279
Thaliacea		13		93	51	615
Vertebrata						
Osteichthys (eggs larvae)	18	4	1	5	13	
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)	14		1		80	5
Pteropoda						
Pelecypoda (veliger)	9	1		6	3	22
NEMATODA			1		11	11
PLATYHELMINTHES						
Trematoda (cercaria)				4	16	
PHoronida (actinotroch)			1			

## PLANKTON DATA

January-June 1978

Page 1 of 4  
STATION MDR-1

	Jan	Feb	Mar	Apr	May	Jun
ANNELIDA POLYCHAETA	50	22	23	17		
ARTHROPODA CRUSTACEA						
Amphipoda						
Gammaridae	4	6				2
Caprellidae						
Cirripedia	15	10	38	101		1
(nauplius, cypris)						
Cladocera						
<i>Eucyclops nordmanni</i>	2			2		
<i>Eucyclops spinifera</i>					7	
<i>Penitella avirostris</i>	21	1	31			
<i>Podon polypnoides</i>		1				
Copepoda calanoida						
(nauplius, copepodite)						
Acartiidae						
<i>Acartia californiensis</i>						
<i>Acartia clausi</i>	4	1	23			
<i>Acartia danae</i>						
<i>Acartia negligens</i>						
<i>Acartia tonsa</i>						
<i>Acartia</i> spp. *	52	84	7,974	8,242	1,205	55
Calanidae						
<i>Calanus pacificus</i>						
<i>Calanus temicornis</i>						
<i>Calanus</i> spp.						
Calocalanidae						
<i>Calocalanus pavo</i>						
<i>Calocalanus styliferus</i>						
<i>Ichnocalanus tenuis</i>						
Mecynocera clausi						
Centropagidae						
<i>Centropages bradyi</i>						
Eucalanidae						
<i>Eucalanus bungi</i>						
<i>Eucalanus crassus</i>						6
<i>Eucalanus</i> spp.						
<i>Rhincalanus nasutus</i>						2

\**Acartia tonsa* + *A. californiensis*.

## PLANKTON DATA

January-June 1978

Page 2 of 4

STATION MDR-1

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flavigomis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>	172					
Pontellidae						
<i>Labidocera jollae</i>	343					
<i>Labidocera trispinosa</i>		2				
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>		2				
<i>Clausocalanus farrani</i>		4				
<i>Clausocalanus furcatus</i>		2				
<i>Clausocalanus jobei</i>		2				
<i>Clausocalanus lividus</i>		2				
<i>Clausocalanus mastigophorus</i>		1				
<i>Clausocalanus parapergens</i>		1				
<i>Clausocalanus paululus</i>		17				
<i>Clausocalanus pergens</i>		52				
<i>Clausocalanus spp.</i>		18				
<i>Ctenocalanus venus</i>		4				
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Tenoridae						
<i>Temora disscutata</i>						
Tortoniidae						
<i>Tortonius disscutatus</i>	2					
Copepoda caligoida						
Copepoda cyclopoida						
Corycaeidae						
<i>Corycaeus amazonicus</i>		2				
<i>Corycaeus anglicus</i>		38				
<i>Corycaeus flaccus</i>		17				
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus spp.</i>						
<i>Parratula curta</i>	6					

## PLANKTON DATA

January-June 1978

Page 3 of 4  
STATION MDR-1

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithoniidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>	8	1				
<i>Oithona similis</i>	21	4	8			
<i>Oithona spinirostris</i>						
<i>Oithona</i> sp.		6				
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>		1				
<i>Oncaea venusta</i>			2			
<i>Oncaea</i> sp.				1		
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpina acutifrons</i>		2				
Cumacea						
Decapoda						
Anomura (zoea)						
<i>Anomura-porcellanidae (zoea)</i>						
<i>Brachyura (zoea, megalopa)</i>	4	9				
<i>Caridea (zoea)</i>					2	1
<i>Macrura (zoea)</i>						
<i>Penaeida (zoea)</i>						
<i>Euphausiacea (calyptosis)</i>						
Isopoda	2					
Mysidacea	15					
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)	170	8	23	34	63	8
Cnidaria						
Hydrozoa (medusae)	10	2	54			
Siphonophora	2	9	8			

## PLANKTON DATA

January-June 1978

Page 4 of 4  
STATION MDR-1

	Jan	Feb	Mar	Apr	May	Jun
<b>CHAETOGNATH</b>	2	2	8			
<b>CHORDATA</b>						
Ascidiae (larvae)						
Larvacea	2	1		17		2
Thaliacea						1
Vertebrata			4			1
Osteichthys (eggs larvae)	4	4				
<b>CTENOPHORA</b>						
<b>ECHINODERMATA</b>						
Echinoidea (echinopluteus)		1				
Holothuroidea (auricularia)	2		1			
Ophiuroidea (ophiopluteus)	6	92				
<b>MOLLUSCA</b>						
Gastropoda (veliger)	6	1				
Pteropoda						
Pelecypoda (veliger)	48	8				
<b>NEMATODA</b>	2					
<b>PLATYHELMINTHES</b>						
Trematoda (cercaria)						
<b>PHORONIDA</b> (actinotroch)						

## PLANKTON DATA

	July-December 1977				STATION MDR-2		
	Jul	Aug	Sep	Oct	Nov	Dec	
ANNELIDA POLYCHAETA	10		4		2		6
ARTHROPODA CRUSTACEA							
Amphipoda							
Gammariidae	5						2
Caprellidae							
Cirripedia	43	3	20		28		17
(nauplius, cypris)							
Cladocera							
Eudine nurmanni	24		85	39	18	90	17
Evadne spinifera			29	18	13	25	63
Penilia avirostris			12	72	665	905	779
Podon polyphemoides	616		1	1	10		
Copepoda calanoida							
(nauplius, copepodite)							
Acartiidae							
Acartia californiensis							
Acartia clausi	5			2			17
Acartia danae				2			40
Acartia negligens							
Acartia tonsa							
Acartia spp. *	851	267	857	730	310	1,044	
Centropagidae							
Centropages bradyi				1			
Calanidae							
Calanus pacificus							
Calanus tenuicornis							
Calanus spp.							
Calocalanidae							
Calocalanus falso							
Calocalanus stylifer							
Ischnocalanus tenuis							
Megacyclops clausi							
Centropagidae							
Centropages bradyi							
Eucalanidae							
Eucalanus bungi							1
Eucalanus crassus							
Eucalanus spp.							
Rhincalanus nasutus							
*Acartia tonsa + A. californiensis.							12

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## PLANKTON DATA

July-December 1977

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STATION MDR-2

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flaviicornis</i>						
Paracalanidae						
<i>Pardocalanus parvus</i>	197	61	262	142	37	588
Pontellidae						
<i>Labidocera jollae</i>	19	2	10	31	5	69
<i>Labidocera trispinosa</i>						12
Pseudocalanidae						
<i>Clausocalanus arnicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus</i> spp.						
<i>Ctenocalanus venus</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Temoridae						
<i>Temora discodata</i>						
Tortaniidae						
<i>Tortanus disscutatus</i>					7	6
Copepoda caligoida						
<i>Copepoda cyclopoida</i>						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>	2	1				
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus</i> spp.						
<i>Paranula curta</i>						12

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July-December 1977

## PLANKTON DATA

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
<b>Copepoda cyclopoida (cont.)</b>						
Oithonidae						
<i>Oithona oculata</i>				2		
<i>Oithona plumifera</i>		16				
<i>Oithona similis</i>	91	14	11		9	
<i>Oithona spinirostris</i>						
<i>Oithona</i> sp.			2			
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncaea</i> sp.	1		15			
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpina acutifrons</i>	4			2	2	
Cumacea						
Decapoda						
Anomura (zoea)				1		
Anomura-porcellanidae (zoea)						
Brachyura (zoea, megalopa)	5			10		
Caridea (zoea)	10			2		
Macrura (zoea)						
Penaeida (zoea)						
Euphausiacea (calyptosis)			2			
Isopoda						
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)						
CNIDARIA						
Hydrozoa (medusae)	4		2	67	2	
Siphonophora	1				5	
						29
						6
						63

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## PLANKTON DATA

July-December 1977

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STATION MDR-2

	Jul	Aug	Sep	Oct	Nov	Dec
CHAETOGNATH						
CHORDATA						
Asciidae (larvae)	24	17	2			
Larvacea	77	23	54			
Thaliacea		7				
Vertebrata						
Osteichthys (eggs larvae)						
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)	4			2		
Holothuroidea (auricularia)						6
Ophiuroidea (ophiopluteus)					2	
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda	10	1	4	26		
Pelecyopoda (veliger)					13	
NEMATODA					18	
PLATYHELMINTHES						
Trematoda (cerkaria)						
PHORONIDA (actinotroch)						

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January-June 1978

## PLANKTON DATA

	Jan	Feb	Mar	Apr	May	Jun
<b>ANNELIDA POLYCHAETA</b>						
<b>ARTHROPODA CRUSTACEA</b>						
Amphipoda	32	32	34	29		
Gammaridae	1			4	2	4
Caprellidae					2	
Cirripedia	4	55	25	65	15	15
( <i>nauplius, cypris</i> )						
Cladocera			6			
<i>Eudadne nordmanni</i>						
<i>Eudadne spinifera</i>		1				
<i>Penitilia avirostris</i>	16	2				
<i>Podon polyphemoides</i>						
Copepoda calanoida			2			
( <i>nauplius, copepodite</i> )						
Acartiidae						
<i>Acartia californiensis</i>						
<i>Acartia clausi</i>	4		8		4	3
<i>Acartia danae</i>						
<i>Acartia negligens</i>						
<i>Acartia tonsa</i>						
<i>Acartia</i> spp. *	20	40	7,277	2,268	671	189
Calanidae						
<i>Calanus pacificus</i>						
<i>Calanus temicornis</i>	1					
<i>Calanus</i> spp.						
Calocalanidae						
<i>Calocalanus pavo</i>						
<i>Calocalanus styliremis</i>						3
Ischnocalanidae						
<i>Ischnocalanus tenuis</i>						
Mecynoceridae						
<i>Mecynocera clausi</i>						
Centropagidae						
<i>Centropages bradyi</i>						
Eucalanidae						
<i>Eucalanus bungi</i>						
<i>Eucalanus crassus</i>						

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## PLANKTON DATA

January-June 1978

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STATION MDR-2

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flavigomis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>	38	93	220	82	61	21
Pontellidae						
<i>Labidocera jollae</i>						
<i>Labidocera trispinosa</i>						
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>	1	2				
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>	4	4				
<i>Clausocalanus jobei</i>	1	3				
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>	2					
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>	8	12				
<i>Clausocalanus spp.</i>	29	1				
Ctenocalanus varus						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Temoridae						
<i>Temora discata</i>						
Tortonidae						
<i>Tortona disiscandatus</i>						8
Copepoda caligoida						
Copepoda cyclopoida						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>	11	10	8	4	4	1
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus griesbrechii</i>						
<i>Corycaeus spp.</i>						
<i>Piranula curta</i>						7

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## PLANKTON DATA

January-June 1978

Page 3 of 4  
STATION MDR-2

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithoniidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>						
<i>Oithona similis</i>						
<i>Oithona spinirostris</i>						
<i>Oithona</i> sp.						
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncaea</i> sp.						
Copepoda-harpacticoida						
Ectinostomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpina acutifrons</i>						
Cumacea						
Decapoda						
Anomura (zoea)						
Anomura-porcellanidae (zoaea)						
Brachyura (zoea, megalopa)						
Caridea (zoea)						
Macrura (zoea)						
Penaeida (zoea)						
Euphausiacea (calyptosis)						
Isopoda						
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)						
CNIDARIA						
Hydrozoa (medusae)						
Siphonophora						

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## PLANKTON DATA

January-June 1978

Page 4 of 4  
STATION MDR-2

	Jan	Feb	Mar	Apr	May	Jun
<b>CHAETOGNATH</b>						
<b>CHORDATA</b>						
Ascidiaeа (larvae)	1	1	8			
Larvacea	1	4	8		2	
Thaliacea	1	1	8		2	
Vertebrata						
Osteichthys (eggs larvae)	6	8	8		4	
<b>CTENOPHORA</b>						
<b>ECHINODERMATA</b>						
Echinoidea (echinopluteus)	1	2				
Holothuroidea (auricularia)	3					
Ophiuroidea (ophiopluteus)	92					
<b>MOLLUSCA</b>						
Gastropoda (veliger)	4	3				
Pteropoda						
Pelecyopoda (veliger)	50	4				
<b>NEMATODA</b>						
Trematoda (cercaria)				8	2	
<b>PLATYHELMINTHES</b>						
PHORONIDA (actinotroch)						

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July-December 1977

## PLANKTON DATA

	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA	5			1	2	3
ARTHROPODA CRUSTACEA						
Amphipoda						
Gammaridae	9	3		1		3
Caprellidae	10	2	2	10	3	3
Cirripedia (nauplius, cypris)						
Cladocera						
Eudane nordmanni	1	144	33	1	72	
Eudane spinifera		15	11		1	5
Penilia avirostris		3	68	16		77
Podon polyphemoides	25	8				
Copepoda calanoida (nauplius, copepodite)		7	5	1	1	
Acartiidae						
Acartia californiensis*	4		14	10	13	34
Acartia clausi						2
Acartia danae						
Acartia negligens						
Acartia tonsa						
Acartia spp. *	76	519	114	158	586	173
Calanidae						
Calanus pacificus						
Calanus temicornis						
Calanus spp.						
Calocalanidae						
Calocalanus pavo						
Calocalanus styliremis						
Ischnocalanus tenuis						
Mecynocera clausi						
Centropagidae						
Centropages bradyi						
Eucalanidae						
Eucalanus bungi						
Eucalanus crassus						
Eucalanus spp.						
Rhincalanus nasutus						

\*Acartia tonsa + A. californiensis.

## PLANKTON DATA

July-December 1977

STATION MDR-3

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
<b>Lucicutiidae</b>						
<i>Lucicutia flavidicornis</i>						
<b>Paracalanidae</b>						
<i>Paracalanus parvus</i>	11	84	20	12	14	146
<b>Pontellidae</b>						
<i>Labidocera jollae</i>	2		1	7	12	8
<b>Labidoceridae</b>						
<i>Labidocera trispinosa</i>						
<b>Pseudocalanidae</b>						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobeti</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus spp.</i>						31
<i>Ctenocalanus varus</i>						
<b>Pseudocyclopidae</b>						
<i>Pseudocyclops bilobatus</i>						
<b>Pseudodiaptomidae</b>						
<i>Pseudodiaptomus euryhalinus</i>	6	60				
<b>Temoridae</b>						
<i>Temora discaudata</i>						
<b>Tortanidae</b>						
<i>Tortanus discaudatus</i>	1					
<b>Copepoda caligoidea</b>						
<b>Copepoda cyclopoida</b>						
<b>Corycaeidae</b>						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>						
<i>Corycaeus functifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus spp.</i>						
<i>Parramula curta</i>						

July-December 1977

## PLANKTON DATA

	Jul	Aug	Sep	Oct	Nov	Dec	
<b>ARTHROPODA CRUSTACEA (cont.)</b>							
Copepoda cyclopoida (cont.)							
Oithonidae							
<i>Oithona oculata</i>	1	5		1	7	3	
<i>Oithona plumifera</i>		14	11	1		5	
<i>Oithona similis</i>	11						
<i>Oithona spinirostris</i>							
<i>Oithona</i> sp.		1		1	1		
Oncaeidae							
<i>Oncaea dentipes</i>							
<i>Oncaea media</i>							
<i>Oncaea mediterranea</i>							
<i>Oncaea similis</i>							
<i>Oncaea venusta</i>							
<i>Oncaea</i> sp.							
Copepoda-harpacticoida							
Ectinosomidae	8	2	1	1	1	3	
<i>Microsetella norvegica</i>		2					
Tachidiidae							
<i>Euterpina acutifrons</i>	1				2	2	
Cumacea	6						
Decapoda							
Anomura (zoea)							
Anomura-porcellanidae (zoea)							
<i>Brachyura</i> (zoea, megalopa)							
Caridea (zoea)							
Macrura (zoea)							
Penaeida (zoea)							
Euphausiaceae (calyptosis)							
Isopoda							
Mysidacea							
Ostracoda					1		
Pycnogonida							
BRACHIOPODA (larvae)							
BRYOZOA (cyphonautes)	1	3	18	3	1	2	
CNIDARIA							
Hydrozoa (medusae)							
Siphonophora							

## PLANKTON DATA

July-December 1977

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STATION MDR-3

	Jul	Aug	Sep	Oct	Nov	Dec
CHAETOGNATH		26	4	2	8	3
CHORDATA						
Asciidae (larvae)	169	2	10	1		3
Larvacea	10	2	18	2	17	64
Thaliacea		8		3	1	69
Vertebrata						
Osteichthys (eggs larvae)	1	2	2	2	1	2
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)	3					
Holothuroidea (auricularia)	2					
Ophiuroidea (ophiopluteus)	5					
MOLLUSCA						
Gastropoda (veliger)				2		2
Pteropoda						
Pelecyopoda (veliger)				8	3	5
NEMATODA	19			1	1	
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						
				1		

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## PLANKTON DATA

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STATION MDR-3

	Jan	Feb	Mar	Apr	May	Jun
ANNELIDA POLYCHAETA	18	42	18	62		
ARTHROPODA CRUSTACEA						
Amphipoda						
Gammaridae	1	6				
Caprellidae						
Cirripedia	5	6	198	238	3	14
(nauplius, cypris)						5
Cladocera						
<i>Eudine nordmanni</i>	1					
<i>Eudine spinifera</i>						
<i>Penilia avirostris</i>	11					
<i>Podon polyphemoides</i>						
Copepoda calanoida						
(nauplii <sub>3</sub> , copepodite <sub>1</sub> )						23
Acartiidae						
<i>Acartia californiensis</i>	4	30	18	23	1	943
<i>Acartia clausi</i>						
<i>Acartia danae</i>						
<i>Acartia negligens</i>						
<i>Acartia tonsa</i>						
<i>Acartia</i> spp.*	46	1,403	16,102	2,986	86	2,762
Calanidae						
<i>Calanus pacificus</i>	1					
<i>Calanus tenuicornis</i>						
<i>Calanus</i> spp.						
Calocalanidae						
<i>Calocalanus pavo</i>	5					
<i>Calocalanus styliremis</i>	1					
<i>Iscinocalanus tenuis</i>						
<i>Mecynocera clausi</i>	1					
Centropagidae						
<i>Centropages bradyi</i>						
Eucalanidae						
<i>Eucalanus bungi</i>						
<i>Eucalanus crassus</i>						
<i>Eucalanus</i> spp.						
<i>Rhincalanus nasutus</i>						

\* *Acartia tonsa* + *A. californiensis*.

Bill

## PLANKTON DATA January-June 1978

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flavicornis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>	149	642	235	85	14	112
Pontellidae						
<i>Labidocera jollae</i>						
Pseudocalanidae						
<i>Labidocera trispinosa</i>	1	6	343	85	1	
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farmani</i>	12					
<i>Clausocalanus furcatus</i>	13					
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>	1					
<i>Clausocalanus parapengens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus fergens</i>	4					
<i>Clausocalanus spp.</i>	39					
Ctenocalanus vanus						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Temoridae						
<i>Temora discaudata</i>						
Tortonidae						
<i>Tortona discaudatus</i>	1	18			6	
Copepoda caligoida						
<i>Copepoda cyclopoida</i>						
Corycaeidae						
<i>Corycaeus amazonicus</i>	4					
<i>Corycaeus anglicus</i>	30	12	18	11	1	5
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus spp.</i>						
Fimbrinula curta						

## PLANKTON DATA

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STATION MDR-3

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithonidae						
<i>Oithona oculata</i>	1					5
<i>Oithona plumifera</i>	4					
<i>Oithona similis</i>						
<i>Oithona spinirostris</i>						
<i>Oithona</i> sp.						
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>		6				
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncaea</i> sp.	1					
Copepoda-harpacticoida	2					
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpina acutifrons</i>						
Cumacea						
Decapoda						
Anomura (zoea)						
Anomura-porcellanidae (zoea)						
<i>Brachyura</i> (zoea, megalopa)						
Caridea (zoea)	42	36	90	17	3	5
Macrura (zoea)						
Penaeida (zoea)						
Euphausiacea (calyptopsis)						
Isopoda	2					
Mysidacea	1					
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)	16	6			51	5
BRYOZOA (cyphonautes)						
CNIDARIA						
Hydrozoa (medusae)	2	6	126	6	10	10
Siphonophora	8	12	18			

## PLANKTON DATA

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STATION MDR-3

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	Jan	Feb	Mar	Apr	May	Jun
CHAETOGNATH	2	6	18			5
CHORDATA						
Ascidacea (larvae)						
Larvacea	3	6		6	3	19
Thaliacea			36			
Vertebrata						
Osteichthys (eggs larvae)	4		18	6	1	
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)	3					
Ophiuroidea (ophiopluteus)	1					
MOLLUSCA						
Gastropoda (veliger)	2	12	18			
Pteropoda	1					
Pelecyopoda (veliger)		7	36			
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)			6			

## PLANKTON DATA

July-December 1977

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STATION MDR-4

	Jul	Aug	Sep	Oct	Now	Dec
<b>ANNELIDA POLYCHAETA</b>		2		6	20	6
<b>ARTHROPODA CRUSTACEA</b>						
Amphipoda						
Gammaridae	3	6	1			
Caprellidae	23	7				
Cirripedia (nauplius, cypria)	26	6	7	7	7	1
Cladocera						
<i>Eucdene normmani</i>	6	18	2			
<i>Eudine spinifera</i>		7				3
<i>Penilia avirostris</i>		7	7	7		21
<i>Podon polyphemoides</i>	26					
Copepoda calanoida (nauplius, copepodite)			5	4		1
Acartiidae						
<i>Acartia californiensis</i>	14	5	1			
<i>Acartia clausi</i>					11	57
<i>Acartia dance</i>						4
<i>Acartia negligens</i>						
<i>Acartia tonsa</i>						
<i>Acartia</i> spp. *	1,016	269	364	470	1,295	346
Calanidae						
<i>Calanus pacificus</i>						
<i>Calanus tenuicornis</i>						
<i>Calanus</i> spp.						
Calocalanidae						
<i>Calocalanus pavo</i>						
<i>Calocalanus styliremis</i>			3			2
<i>Ischnocalanus tenuis</i>						
<i>Mecynocera clausi</i>						
Centropagidae						
<i>Centropages bradyi</i>						
Eucalanidae						
<i>Eucalanus bungi</i>						
<i>Eucalanus crassus</i>						
<i>Eucalanus</i> spp.						
<i>Rhincalanus nasutus</i>						
<hr/>						
* <i>Acartia tonsa</i> + <i>A. californiensis</i> .						

## PLANKTON DATA

July-December 1977

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STATION MDR-4

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flavidicornis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>	23	91	18	4	14	144
Pontellidae						
<i>Labidocera jollae</i>			5	11	2	22
Labidocera trispinosa						
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus</i> spp.						
<i>Ctenocalanus vanus</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>				1		
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>	6		119			
Temoridae						
<i>Temora discudata</i>						
Tortoniidae						
<i>Tortanus discudatus</i>	3		1	1		1
Copepoda caligoida						
Copepoda cyclopoida						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>						
<i>Corycaeus functifer</i>						
<i>Corycaeus giessbrechtii</i>						
<i>Corycaeus</i> spp.						
<i>Furcilla curta</i>						2

## PLANKTON DATA

July-December 1977

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STATION MDR-4

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	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithonidae						
<i>Oithona oculata</i>					9	1
<i>Oithona plumifera</i>					1	
<i>Oithona similis</i>	3	13	1			
<i>Oithona spinirostris</i>				4		
<i>Oithona</i> sp.					1	
Oncidae						
<i>Oncæa dentipes</i>						
<i>Oncæa media</i>						
<i>Oncæa mediterranea</i>						
<i>Oncæa similis</i>						
<i>Oncæa venusta</i>						
<i>Oncæa</i> sp.						
Copepoda-harpacticoida	3	5			2	
Ectinosomidae					1	
<i>Microsetella norvegica</i>						1
Tachidiidae						
<i>Buterpina acutifrons</i>				1		
Cumacea						
Decapoda						
Anomura (zoea)						
Anomura-porcellanidae (zoea)						
<i>Brachyura</i> (zoea, megalopa)	14			1		
Caridea (zoea)						
<i>Macrura</i> (zoea)						
Penaeida (zoea)						
<i>Euphausiacea</i> (calyptopsis)				2		
Isopoda						
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)				1		
BRYOZOA (cyphonautes)	3	1		2	1	
CNIDARIA						6
Hydrozoa (medusae)						2
Siphonophora	3	2				1
						2

## PLANKTON DATA

July-December 1977

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STATION MDR-4

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	Jul	Aug	Sep	Oct	Nov	Dec
CHAETOGNATH		10	15		4	2
CHORDATA						
Ascidacea (larvae)	48	91	13	2	20	
Larvacea	40	2	7	4	2	30
Thaliacea		1				64
Vertebrata						
Osteichthys (eggs larvae)	5	2	1	2		2
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)	1					
Holothuroidea (auricularia)			1			1
Ophiuroidea (ophiopluteus)						1
MOLLUSCA						
Gastropoda (veliger)	3	1		7		2
Pteropoda						
Pelecypoda (veliger)					2	
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORCNIDA (actinotroch)					1	

## PLANKTON DATA

January-June 1978

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STATION MDR-4

	Jan	Feb	Mar	Apr	May	Jun
ANNELIDA POLYCHAETA	28	226	116			
ARTHROPODA CRUSTACEA						
Amphipoda						
Gammaridae	1					
Caprellidae						
Cirripedia (nauplius, cypris)	1	9	217		4	3
Cladocera						
Euaðne nordmanni						
Euaðne spinifera						
Penilia avirostris	9			14		
Podon polyphemoides						
Copepoda calanoida	1	2		150		
(nauplius, copepodite)						
Acartiidae						
Acartia californiensis						
Acartia clausi	2	49	14	75	21	3
Acartia danae	1					
Acartia negligens						
Acartia tonsa						
Acartia spp.*	28	951	14,167	65,232	4,459	1,306
Calanidae						
Calanus pacificus	2					
Calanus tenuicornis						
Calanus spp.						
Calocalanidae						
Calocalanus pavo						
Calocalanus styliremis	1					
Ischnocalanus temus	1					
Mecynocera clausi	1					
Centropagidae						
Centropages bradyi						
Eucalanidae						
Eucalamus bungi						
Eucalamus crassus						
Eucalanus spp.						
Rhinocalanus nasutus						

\*Acartia tonsa + A. californiensis.

## PLANKTON DATA

January-June 1978

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STATION MDR-4

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flavigaster</i>						
Paracalanidae						
<i>Paracalanus parvus</i>	107	344	768	42	35	
Pontellidae						
<i>Labidocera jolliae</i>						
<i>Labidocera trispinosa</i>						
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>	4	2				
<i>Clausocalanus jobei</i>	2					
<i>Clausocalanus lividus</i>	2					
<i>Clausocalanus mastigophorus</i>	1					
<i>Clausocalanus parapergens</i>	1					
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pengens</i>	7	2				
<i>Clausocalanus spp.</i>	43	3				
<i>Ctenocalanus vanus</i>	2					
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Temoridae						
<i>Temora disaccata</i>						
Tortoniidae						
<i>Tortanus discaudatus</i>	4					
Copepoda caligoida						
<i>Copepoda cyclopoida</i>	1					
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>	2	4	14			
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus spp.</i>						
<i>Farranula curta</i>	4					

## PLANKTON DATA

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STATION MDR-4

ARTHROPODA CRUSTACEA (cont.)	January-June 1978					STATION MDR-4
	Jan	Feb	Mar	Apr	May	
Copepoda cyclopoida (cont.)						
Oithonidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>	3					
<i>Oithona similis</i>	1	6	14			
<i>Oithona spinirostris</i>						
<i>Oithona</i> sp.						
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncaea</i> sp.	1					
Copepoda-harpacticoida	2	4				
Ectinostomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpina acutifrons</i>						
Cumacea						
Decapoda						
Anomura (zoea)						
Anomura-porcellanidae (zoea)						
<i>Brachyura</i> (zoea, megalopa)	10	7	58			
Caridea (zoea)	4	2				
Macrura (zoea)						
Penaeida (zoea)						
Euphausiacea (calyptopsis)						
Isopoda						
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)	6	6	14			
CNIDARIA						
Hydrozoa (medusae)	4	7	43			
Siphonophora	3					

## PLANKTON DATA

January-June 1978

Page 4 of 4  
STATION MDR-4

	Jan	Feb	Mar	Apr	May	Jun
CHAETOGNATH	87				4	2
CHORDATA						
Asciidae (larvae)					8	9
Larvacea	3	6	14			
Thaliacea	1		29			
Vertebrata						
Osteichthys (eggs larvae)						5
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)	1					
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)					9	
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda					2	14
Pelecypoda (veliger)				22		
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

PLANKTON DATA	July-December 1977				STATION MDR-5		
	Jul	Aug	Sep	Oct	Nov	Dec	
<b>ANNELIDA POLYCHAETA</b>	5						
<b>ARTHROPODA CRUSTACEA</b>							
Amphipoda							
Gammaridae	2						
Caprellidae	11						
Cirripedia	82	28	1	1			
(nauplius, cypris)							
Cladocera							
<i>Evdine nordmanni</i>	9	31					
<i>Evdine spinifera</i>			1				
<i>Penilia avirostris</i>				2			
<i>Podon polyphemoides</i>				5			
Copepoda calanoida	4	2					
(nauplius, copepodite)							
Acartiidae							
<i>Acartia californiensis</i>	2						
<i>Acartia clausi</i>							
<i>Acartia danica</i>							
<i>Acartia negligens</i>							
<i>Acartia tonga</i>							
<i>Acartia</i> spp. *							
Calanidae	538	868	221	11	2,932	539	
<i>Calanus pacificus</i>							
<i>Calanus tenuicornis</i>							
<i>Calanus</i> spp.							
Calocalanidae							
<i>Calocalanus pavo</i>							
<i>Calocalanus styliferensis</i>							
<i>Technocalanus tenuis</i>							
<i>Mesocyclops clausi</i>							
Centropagidae							
<i>Centropages bradyi</i>							
Eucalanidae							
<i>Eucalanus bungi</i>							
<i>Eucalanus crassus</i>							
<i>Eucalanus</i> spp.							
<i>Rhincalanus nasutus</i>							

\**Acartia tonga* + *A. californiensis*.

## PLANKTON DATA

July-December 1977

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	STATION MDR-5					
	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flavicornis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>	18	69	8	1	2	90
Pontellidae						
<i>Labidocera jollae</i>						10
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>	21					
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus</i> spp.						
<i>Ctenocalanus varus</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>	2					
Tenoridae						
<i>Tenora discudata</i>						
Tortoniidae						
<i>Tortonanus discudatus</i>	2					
Copepoda caligoida						
Copepoda cyclopoida						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>	4					
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus</i> spp.						
<i>Farranula curta</i>						

## PLANKTON DATA

July-December 1977

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STATION MDR-5

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont..)						
Oithoniidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>	2					
<i>Oithona similis</i>	2	14	1			
<i>Oithona spinirostris</i>						
<i>Oithona sp.</i>				3		
Oncidae						
<i>Oncæa dentipes</i>						
<i>Oncæa media</i>						
<i>Oncæa mediterranea</i>						
<i>Oncæa similis</i>						
<i>Oncæa venusta</i>						
<i>Oncæa sp.</i>			5			
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpina acutifrons</i>						
Cumacea						
Decapoda						
<i>Anomura (zoaea)</i>						
<i>Anomura-porcellanidae (zoaea)</i>						
<i>Brachyura (zoaea, megalopa)</i>	9		2	1	10	2
<i>Caridea (zoaea)</i>	5		1		2	
<i>Macrura (zoaea)</i>						
<i>Penaeida (zoaea)</i>						
<i>Euphausiacea (calyptopsis)</i>						
Isopoda						
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)	2					
BRYOZOA (cyphonautes)	10	2		1	2	8
CNIDARIA						
Hydrozoa (medusae)						
Siphonophora	5					2

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## PLANKTON DATA

July-December 1977

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STATION MDR-5

	Jul	Aug	Sep	Oct	Nov	Dec
CHAETOGNATH	5	1				
CHORDATA						
Asciacea (larvae)	86	247	10	3	8	
Larvacea	12				2	3
Thaliacea		2				26
Vertebrata						
Osteichthys (eggs larvae)	1				2	3
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)	2					
MOLLUSCA					2	
Gastropoda (veliger)				6		
Pteropoda						
Pelecyopoda (veliger)			4			
NEMATODA					2	
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

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## PLANKTON DATA

January-June 1978

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STATION MDR-5

	Jan	Feb	Mar	Apr	May	Jun
ANNELIDA POLYCHAETA	9	18	54			
ARTHROPODA CRUSTACEA						
Amphipoda						
Gammaridae						
Caprellidae						
Cirripedia	2	11	325			
(nauplius, cypris)						
Cladocera						
<i>Eudadne normmanni</i>						
<i>Eudadne spinifera</i>						
<i>Penilia avirostris</i>	4					
<i>Podon polyphemoides</i>						
Copepoda calanoida	2					
(nauplius, copepodite)						
Acartiidae						
Acartia californiensis						
Acartia clausi	2	28				
Acartia danae						
Acartia negligens	2					
Acartia tonsa						
Acartia spp. *	170	3,137	60,544	81,119	1,052	1,429
Calanidae						
<i>Calanus pacificus</i>	18					
<i>Calanus tenuicornis</i>						
<i>Calanus</i> spp.						
Calocalanidae						
<i>Calocalanus pavo</i>						
<i>Calocalanus styliremis</i>						
<i>Ischnocalanus tenuis</i>						
<i>Mecynocera clausi</i>						
Centropagidae						
<i>Centropages bradyi</i>						
Eucalanidae						
<i>Eucalanus bungi</i>						
<i>Eucalanus crassus</i>						
<i>Eucalanus</i> spp.						
<i>Rhinocalanus nasutus</i>						

\* *Acartia tonsa* + *A. californiensis*.

## PLANKTON DATA

January-June 1978

Page 2 of 4  
STATION MDR-5

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flaviicornis</i>						
Paracalanidae						
<i>Parocalanus parvus</i>	198	380	379		28	15
Pontellidae						
<i>Labidocera jollae</i>						
<i>Labidocera trispinosa</i>		217				6
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>	3		7			
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>	1					
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>	12		4			
<i>Clausocalanus spp.</i>	44					
Ctenocalanidae						
<i>Ctenocalanus varus</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Temoridae						
<i>Temora discondata</i>						
Tortoniidae						
<i>Torturus descendatus</i>			4			
Copepoda caligoida						
<i>Copepoda cyclopoida</i>						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>	6					
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus spp.</i>						
<i>Pinnamula curta</i>						7

## PLANKTON DATA

January-June 1978

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STATION MDR-5

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithoniidae						
<i>Oithona oculata</i>	4					
<i>Oithona plumifera</i>						
<i>Oithona similis</i>						
<i>Oithona spinirostris</i>						
<i>Oithona</i> sp.						
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncaea</i> sp.						
Copepoda-harpacticoida	2					
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachididae						
<i>Euterpina acutifrons</i>	2					
Cumacea						
Decapoda						
<i>Anomura</i> (zoea)						
<i>Anomura-porcellanidae</i> (zoea)						
<i>Brachyura</i> (zoea, megalopa)	27	4				
<i>Caridea</i> (zoea)	14					
<i>Macrura</i> (zoea)						
<i>Penaeida</i> (zoea)						
<i>Euphausiacea</i> (calyptosia)						
Isopoda	4					
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)						
CNIDARIA						
Hydrozoa (medusae)	2					
Siphonophora	3					
						54

January-June 1978

## PLANKTON DATA

	Jan	Feb	Mar	Apr	May	Jun
CHAETOGNATH			54			2
CHORDATA						
Ascidacea (larvae)						
Larvacea	12	4	162			
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)	6	4				
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)	1					
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)	1					
MOLLUSCA						
Gastropoda (veliger)	1					
Pteropoda						
Pelecyopoda (veliger)	9		11			
NEMATODA						
PLATYNEMENTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

## PLANKTON DATA

July-December 1977

STATION MDR-6

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ANNELIDA POLYCHAETA</b>	1		2	2		2
<b>ARTHROPODA CRUSTACEA</b>						
Amphipoda						
Gammaridae	5	1				
Caprellidae	4					
Cirripedia	54	13	9	1		2
(nauplius, cypris)						
Cladocera						
Eudiaptomus nordmanni	35					
Evadne spinifera						
Penilia avirostris		1				
Podon polypnoides	4					
Copepoda calanoida						
(nauplius, copepodite)						
Acartiidae						
Acartia californiensis						
Acartia clausi						
Acartia dameae						
Acartia negligens						
Acartia tonsa						
Acartia spp. *						
Calanidae						
Calanus pacificus						
Calanus temericornis						
Calanus spp.						
Calocalanidae						
Calocalanus pavo						
Calocalanus styliferensis						
Ischnocalanus tenuis						
Mecynocera clausi						
Centropagidae						
Centropages bradyi						
Eucalanidae						
Eucalanus bungi						
Eucalanus crassus						
Eucalanus spp.						
Rhincalanus naevius						

\*Acartia tonsa + A. californiensis.

## PLANKTON DATA

July-December 1977

	Jul	Aug	Sep	Oct	Nov	Dec	STATION MDR-6
<b>ARTHROPODA CRUSTACEA (cont.)</b>							
Copepoda calanoida (cont.)							
Lucicutiidae							
<i>Lucicutia flavigomis</i>							
Paracalanidae							
<i>Paracalanus parvus</i>	2	16					
Pontellidae							
<i>Labidocera trispinosa</i>	2						
Pseudocalanidae							
<i>Clausocalanus arcuicornis</i>							
<i>Clausocalanus farrani</i>							
<i>Clausocalanus furcatus</i>							
<i>Clausocalanus jobei</i>							
<i>Clausocalanus lividus</i>							
<i>Clausocalanus mastigophorus</i>							
<i>Clausocalanus parapergens</i>							
<i>Clausocalanus paululus</i>							
<i>Clausocalanus pergens</i>							
<i>Clausocalanus</i> spp.							
<i>Ctenocalanus varus</i>							
Pseudocyclopidae							
<i>Pseudocyclops bilobatus</i>							
Pseudodiaptomidae							
<i>Pseudodiaptomus euryhalimus</i>	6						
Temoridae							
<i>Temora discodata</i>							
Tortoniidae							
<i>Tortpnus discandatus</i>							
Copepoda caligoida							
Copepoda cyclopoida							
Corycaeidae							
<i>Corycaeus amazonicus</i>							
<i>Corycaeus anglicus</i>							
<i>Corycaeus flaccus</i>							
<i>Corycaeus furcifer</i>							
<i>Corycaeus gibesbrechti</i>							
<i>Corycaeus</i> spp.							
<i>Metamalula curta</i>							



## PLANKTON DATA

July-December 1977

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STATION MDR-6

	Jul	Aug	Sep	Oct	Nov	Dec
CHAETOGNATH		2	4			
CHORDATA						
Ascidacea (larvae)	31	488	34	15	13	
Larvacea	1					1
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)	2					
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)	1					
Pteropoda						
Pelecypoda (veliger)			2			
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

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## PLANKTON DATA

January-June 1978

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STATION MDR-6

	Jan	Feb	Mar	Apr	May	Jun
<b>ANNELIDA POLYCHAETA</b>						
<b>ARTHROPODA CRUSTACEA</b>						
Amphipoda						
Gammaridae						
Caprellidae						
Cirripedia						
( <i>nauplius, cypris</i> )						
Cladocera						
<i>Eucadne nordmanni</i>						
<i>Eucadne spinifera</i>						
<i>Penilia avirostris</i>						
<i>Podon polyphemoides</i>						
Copepoda calanoida						
( <i>nauplius, copepodite</i> )						
Acartiidae						
<i>Acartia californiensis</i>						
<i>Acartia clausi</i>						
<i>Acartia danae</i>						
<i>Acartia negligens</i>						
<i>Acartia tonga</i>						
<i>Acartia spp. *</i>						
Calanidae						
<i>Calanus pacificus</i>						
<i>Calanus tenuicornis</i>						
<i>Calanus spp.</i>						
Calocalanidae						
<i>Calocalanus pano</i>						
<i>Calocalanus styliferemis</i>						
<i>Ischnocalanus tenuis</i>						
<i>Mecynocera clausi</i>						
Centropagidae						
<i>Centropages bradyi</i>						
Eucalanidae						
<i>Eucalanus bungi</i>						
<i>Eucalanus crassus</i>						
<i>Eucalanus spp.</i>						
Rhincalanus nasutus						

\**Acartia tonga + A. californiensis.*

## PLANKTON DATA

January-June 1978

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STATION MDR-6

	Jan	Feb	Mar	Apr	May	Jun
ARTHROPODA CRUSTACEA (cont.)						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flaviicornis</i>						
paracalanidae						
<i>Paracalanus farvus</i>	247	183	64	25	7	39
Pontellidae						
<i>Labidocera jollae</i>						
<i>Labidocera trispinosa</i>						
pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus spp.</i>						
<i>Ctenocalanus vanus</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Temoridae						
<i>Temora dissecta</i>						
Tortoniidae						
<i>Tortanus discaudatus</i>						
Copepoda cyclopoida						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus spp.</i>						
<i>Farranula curta</i>						

## PLANKTON DATA

January-June 1978

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STATION MDR-6

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithoniidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>						
<i>Oithona similis</i>						1
<i>Oithona spinirostris</i>						
<i>Oithona sp.</i>						
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncaea sp.</i>						
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>					20	
Tachidiidae						
<i>Euterpina acutifrons</i>						19
Cumacea						
Decapoda						
Anomura (zoea)						
<i>Anomura-porcellanidae (zoea)</i>						
<i>Brachyura (zoea, megalopa)</i>					15	
<i>Caridea (zoea)</i>						
<i>Macrura (zoea)</i>						
<i>Penaeida (zoea)</i>						
<i>Euphausiacea (calyptopsis)</i>						5
Isopoda						
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)						
Cnidaria						
Hydrozoa (medusae)						
Siphonophora						

## PLANKTON DATA

January-June 1978

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STATION MDR-6

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	Jan	Feb	Mar	Apr	May	Jun
CHAETOGNATH				5		
CHORDATA						
Asciacea (larvae)						
Larvacea	20	28				
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)			119			
Ctenophora						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)			10			
pteropoda						
Pelecypoda (veliger)				14		
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

PLANKTON DATA	July-December 1977				STATION MDR-7	
	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA	3			2		
ARTHROPODA CRUSTACEA						
Amphipoda						1
Gammaridae			7			
Caprellidae	2					
Cirripedia	140	4	31		2	
(nauplius, cypris)						
Cladocera						
Eudine nordmanni			1			
Evadne spinifera		1	2			
Penilia avirostris				4		
Podon polyphemoides	1					
Copepoda calanoida						
(nauplius, copepodite)						
Acartiidae						
Acartia californiensis						
Acartia clausi						
Acartia danae						
Acartia negligens						
Acartia tonsa						
Acartia spp.*						
Calanidae						
Calanus pacificus						
Calanus tenuicornis						
Calanus spp.						
Calocalanidae						
Calocalanus pavo						
Calocalanus styliaremis						
Ischnocalanus tenuis						
Mecynocera clausi						
Centropagidae						
Centropages bradyi						
Eucalanidae						
Eucalanus bungi						
Eucalanus crassus						
Eucalanus spp.						
Rhinocalanus nasutus						

\*Acartia tonsa + A. ovaliforniensis.

## PLANKTON DATA

July-December 1977

STATION MDR-7

ARTHROPODA CRUSTACEA (cont.)	Jul	Aug	Sep	Oct	Nov	Dec	STATION MDR-7
<i>Copepoda calanoida</i> (cont.)							
<i>Lucicutiidae</i>							
<i>Lucicutia flavigomis</i>							
<i>Paracalanidae</i>							
<i>Paracalanus parvus</i>	1	31	5	2			
<i>Pontellidae</i>							
<i>Labidocera jollae</i>							
<i>Labidocera trispinosa</i>							
<i>Pseudocalanidae</i>							
<i>Clausocalanus arcuicornis</i>							
<i>Clausocalanus farrani</i>							
<i>Clausocalanus furcatus</i>							
<i>Clausocalanus jobei</i>							
<i>Clausocalanus lividus</i>							
<i>Clausocalanus mastigophorus</i>							
<i>Clausocalanus parapengens</i>							
<i>Clausocalanus paululus</i>							
<i>Clausocalanus pergens</i>							
<i>Clausocalanus spp.</i>							
<i>Ctenocalanus varus</i>							
<i>Pseudocyclopidae</i>							
<i>Pseudocyclops bilobatus</i>							
<i>Pseudodiaptomidae</i>							
<i>Pseudodiaptomus euryhalimus</i>							
<i>Temoridae</i>							
<i>Temora discaudata</i>							
<i>Tortamidae</i>							
<i>Tortamus discaudatus</i>							
<i>Copepoda caligoida</i>							
<i>Copepoda cyclopoida</i>							
<i>Corycaeidae</i>							
<i>Corycaeus amazonicus</i>							
<i>Corycaeus anglicus</i>							
<i>Corycaeus flaccus</i>							
<i>Corycaeus furcifer</i>							
<i>Corycaeus giesbrechti</i>							
<i>Corycaeus spp.</i>							
<i>Farranula curta</i>							

## PLANKTON DATA

July-December 1977

STATION MDR-7

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
<b>Copepoda cyclopoids (cont.)</b>						
Oithoniidae						
<i>Oithona oculata</i>					1	
<i>Oithona plumifera</i>						
<i>Oithona similis</i>			2			
<i>Oithona spinirostris</i>						
<i>Oithona sp.</i>						
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea verusta</i>						
<i>Oncaea sp.</i>						
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiliidae						
<i>Euterpina acutifrons</i>						
Cumacea						
Decapoda						
Anomura (zoea)						
Anomura-porcellanidae (zoea)						
Brachyura (zoea, megalopa)	6					
Caridea (zoea)	13					
Macrura (zoea)	1					
Penaeida (zoea)						
Euphausiacea (calyptos) (zoea)						
Isopoda						
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)						
CNIDARIA						
Hydrozoa (medusae)	2					
Siphonophora						1

## PLANKTON DATA

July-December 1977

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STATION MDR-7

	Jul	Aug	Sep	Oct	Nov	Dec
CHAETOGNATH	1					
CHORDATA						4
Asciidaeae (larvae)	31	77	16	12	13	
Larvacea	2					
Thaliacea						1
Vertebrata						
Osteichthys (eggs larvae)		1				
CTENOPHORA						
ECHINODEMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)			1			
MOLLUSCA				1		
Gastropoda (veliger)						
Pteropoda						
Pelecyypoda (veliger)						
NEMATODA						
PLATYHELMINTHES						
Trematoda (cerkaria)						
PHORCNIDA (actinotroch)						

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	January-June 1978					STATION MDR-7	
	Jan	Feb	Mar	Apr	May	Jun	
<b>ANNELIDA POLYCHAETA</b>							
<b>ARTHROPODA CRUSTACEA</b>							
Amphipoda							
Gammaridae							
Caprellidae							
Cirripedia							
(nauplius, cypris)							
Cladocera							
<i>Eucypris virens</i>							
<i>Eudrepanothrix spinifera</i>							
<i>Penilia avirostris</i>							
<i>Podon polyphemoides</i>							
Copepoda calanoida							
(nauplius, copepodite)							
Acartiidae							
<i>Acartia californiensis</i>							
<i>Acartia clausi</i>							
<i>Acartia danae</i>							
<i>Acartia negligens</i>							
<i>Acartia tonsa</i>							
<i>Acartia</i> spp. *							
Calanidae							
<i>Calanus pacificus</i>							
<i>Calanus temicornis</i>							
<i>Calanus</i> spp.							
Calocalanidae							
<i>Calocalanus pavo</i>							
<i>Calocalanus styliremis</i>							
<i>Ischnocalanus tenuis</i>							
<i>Mecynocera clausi</i>							
Centropagidae							
<i>Centropages bradyi</i>							
Eucalanidae							
<i>Eucalanus bungi</i>							
<i>Eucalanus crassus</i>							
<i>Eucalanus</i> spp.							
<i>Rhincalanus nasutus</i>							

\**Acartia tonsa* + *A. californiensis*.

## PLANKTON DATA

January-June 1978

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STATION MDR-7

	Jan	Feb	Mar	Apr	May	Jun
ARTHROPODA CRUSTACEA (cont.)						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flavigomis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>						
Pontellidae						
<i>Labidocera jollae</i>						
<i>Labidocera trispinosa</i>						
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pengens</i>						
<i>Clausocalanus</i> spp.						
<i>Ctenocalanus varius</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Temoridae						
<i>Temora dissecta</i>						
Tortoniidae						
<i>Tortona disaccudata</i>						
Copepoda caligoida						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus arglicus</i>						
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus</i> spp.						
<i>Farrania curta</i>						
						3
						162

	Jan	Feb	Mar	Apr	May	Jun	
<b>ARTHROPODA CRUSTACEA (cont.)</b>							
Copepoda cyclopoida							
Oithoniidae							
<i>Oithona oculata</i>							
<i>Oithona pluniifera</i>							
<i>Oithona similis</i>							
<i>Oithona spinirostris</i>							
<i>Oithona</i> sp.							
Oncaeidae							
<i>Oncaea dentipes</i>							
<i>Oncaea media</i>							
<i>Oncaea mediterranea</i>							
<i>Oncaea similis</i>							
<i>Oncaea venusta</i>							
<i>Oncaea</i> sp.							
Copepoda-harpacticoida							
Ectinosomidae							
<i>Microsetella norvegica</i>							
Tachididae							
<i>Euterpinia acutifrons</i>							
Cumacea							
Decapoda							
Anomura (zoea)							
Ancistrosa-porcellanidae (zoea)							
Brachyura (zoea, megalopa)	67		158		54		1
Caridea (zoea)			105				
Macrura (zoea)							
Penaeida (zoea)							
Euphausiacea (calyptosis)							
Isopoda							
Mysidacea							
Ostracoda							
Pycnogonida							
BRACHIOPODA (larvae)							
BRYOZOA (cyphonautes)							
CNIDARIA	52						8
Hydrozoa (medusae)							
Siphonophora							
							108

## PLANKTON DATA

January-June 1978

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STATION MDR-7

	Jan	Feb	Mar	Apr	May	Jun
CHAETOGNATH						
CHORDATA						
Ascidioacea (larvae)						
Larvacea	50			54		
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)						
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda						
Pelecypoda (veliger)						
NEMATODA						
PLATHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

July-December 1977

PLANKTON DATA

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ANNELIDA POLYCHAETA</b>						
<b>ARTHROPODA CRUSTACEA</b>						
Amphipoda						
Gammaridae	1					
Caprellidae	3					
Cirripedia	12	8	3	2		
( <i>nauplius, cypris</i> )						
Cladocera						
<i>Eudore nondamari</i>	1					
<i>Eucadne spinifera</i>						
<i>Penilia avirostris</i>		1		2		
<i>Podon polyphemoides</i>	2					
Copepoda calanoida						
( <i>nauplius, copepodite</i> )						
Acartiidae						
<i>Acartia californiensis</i>	1					
<i>Acartia clausi</i>						
<i>Acartia danae</i>						
<i>Acartia negligens</i>						
<i>Acartia tonsa</i>						
<i>Acartia</i> spp. *						
Calanidae						
<i>Calanus pacificus</i>						
<i>Calanus tenuicornis</i>						
<i>Calanus</i> spp.						
Calocalanidae						
<i>Calocalanus pavo</i>						
Centropagidae						
<i>Centropages bradyi</i>						
Eucalanidae						
<i>Eucalanus bungi</i>						
<i>Eucalanus crassus</i>						
<i>Eucalanus</i> spp.						
<i>Rhincalanus naevius</i>						

\**Acartia tonsa* + *A. californiensis*.

## PLANKTON DATA

July-December 1977

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STATION MDR-8

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flavidicornis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>	1	6				
Pontellidae						4
<i>Labidocera jollae</i>						
<i>Labidocera trispinosa</i>						
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus</i> spp.						
<i>Ctenocalanus vanus</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Tenoridae						
<i>Tenora discaudata</i>						
Tortaniidae						
<i>Tortanus dissecudatus</i>						
Copepoda caligoida						
Copepoda cyclopoida						
Corycaidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						1
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus</i> spp.						
<i>Parramula curta</i>						3

## PLANKTON DATA

July-December 1977

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STATION MDR-8

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithonidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>						
<i>Oithona similis</i>						
<i>Oithona spinirostris</i>						
<i>Oithona sp.</i>						
Oncidae						
<i>Oncæa dentipes</i>						
<i>Oncæa media</i>						
<i>Oncæa mediterranea</i>						
<i>Oncæa similis</i>						
<i>Oncæa venusta</i>						
<i>Oncæa sp.</i>	1		1		3	31
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpinia acutifrons</i>						
Cumacea						
Decapoda						
Anomura (zoea)						
<i>Anomura-porcellanidae (zoea)</i>						
<i>Brachyura (zoea, megalopa)</i>					1	2
Caridea (zoea)					1	
Macrura (zoea)						
Penaeida (zoea)						
Euphausiacea (calyptosus)						
Isopoda						
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)					1	4
CNIDARIA						1
Hydrozoa (medusæ)						
Siphonophora						1

## PLANKTON DATA

July-December 1977

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STATION MDR-8

	Jul	Aug	Sep	Oct	Nov	Dec
CHAETOGNATH		4				
CHORDATA						
Asciidae (larvae)	33	290	11	16	4	2
Larvacea						1
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)	1	2				
Ctenophora						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda						
Pelecypoda (veliger)						
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

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## PLANKTON DATA

January-June 1978

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STATION MDR-8

	Jan	Feb	Mar	Apr	May	Jun
ANNELIDA POLYCHAETA			291		1	53
ARTHROPODA CRUSTACEA						
Amphipoda						
Gammaridae						
Caprellidae						
Cirripedia						
(nauplius, cypris)	3		5			
Cladocera						
<i>Eudane normmanni</i>						
<i>Eudane spinifera</i>						
<i>Pemilia aviros tris</i>						
<i>Podon polyphemoides</i>						
Copepoda calanoida						
(nauplius, copepodite)	5					
Acartiidae						
<i>Acartia californiensis</i>						
<i>Acartia clausi</i>	8	1				
<i>Acartia danae</i>						
<i>Acartia negligens</i>						
<i>Acartia tonsa</i>						
<i>Acartia</i> spp. *	4,464	644	4,887	142,842	160	6,078
Calanidae						
<i>Calanus pacificus</i>	16					
<i>Calanus tenuicornis</i>						
<i>Calanus</i> spp.						
Calocalanidae						
<i>Calocalanus pavo</i>						
<i>Calocalanus styliferinus</i>						
<i>Ischnocalanus tenuis</i>						
<i>Megynocera clausi</i>						
Centropagidae						
<i>Centropages bradyi</i>						
Eucalanidae						
<i>Eucalanus hungi</i>						
<i>Eucalanus crassus</i>						
<i>Eucalanus</i> spp.						
<i>Rhincalanus nasutus</i>						

\**Acartia tonsa* + *A. californiensis*.

## PLANKTON DATA

January-June 1978

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STATION MDR-8

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flavigaster</i>						
paracalanidae						
<i>Paracalanus parvus</i>	81	22	15		6	6
pontellidae						
<i>Labidocera jollae</i>						
<i>Labidocera trispinosa</i>						3
pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farreni</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobeti</i>						
<i>Clausocalanus tividus</i>	16				1	
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus spp.</i>						
<i>Ctenocalanus varus</i>						
pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
temoridae						
<i>Temora discudata</i>						
tortaniidae						
<i>Tortanus discaudatus</i>					1	
copepoda caligoidea						
<i>Copepoda cyclopoidea</i>						
corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>					2	
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus spp.</i>						
<i>Farranula curta</i>						

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## PLANKTON DATA

January-June 1978

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoids (cont.)						
Oithonidae						
<i>Oithona oculata</i>	1					
<i>Oithona plumifera</i>						
<i>Oithona similis</i>		1				
<i>Oithona spinirostris</i>						
<i>Oithona</i> sp.						
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncaea</i> sp.						
Copepoda-harpacticoida						
Ectinosomidae	8		1		5	
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpnia acutifrons</i>						
Cumacea						
Decapoda						
Anomura (zoaea)						
<i>Anomura-porcellanidae</i> (zoaea)						
<i>Brachyura</i> (zoaea, megalopa)						
<i>Caridea</i> (zoaea)						
<i>Macrura</i> (zoaea)						
<i>Penaeida</i> (zoaea)						
<i>Euphausiaceae</i> (calyptosis)						
Isopoda	24					
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cypohnautae)						
CNIDARIA						
Hydrozoa (medusae)	1		39		582	
Siphonophora						

## PLANKTON DATA

January-June 1978

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STATION MDR-8

	Jan	Feb	Mar	Apr	May	Jun
CHAETOGNATH						
CHORDATA						
Ascidiae (larvae)						
Larvacea						
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)						
Ctenophora						
ECHINODERMATA						
Echinolidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda						
Pelecypoda (veliger)						
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

STATION MDR-9

July-December 1977

PLANKTON DATA

	Jul	Aug	Sep	Oct	Nov	Dec	
<b>ANNELIDA POLYCHAETA</b>	18						
<b>ARTHROPODA CRUSTACEA</b>							
Amphipoda							
Cammaridae	18						
Caprellidae	18						
Cirripedia	217	13	6	1			
(nauplius, cypris)							
Cladocera							
<i>Evdadne nordmanni</i>							
<i>Evdadne spinifera</i>							
<i>Penilia avirostris</i>							
<i>Podon polyphemoides</i>							
Copepoda calanoida							
(nauplius, copepodite)	1						
Acartiidae							
<i>Acartia californiensis</i>							
<i>Acartia clausi</i>							
<i>Acartia danae</i>							
<i>Acartia negligens</i>							
<i>Acartia tonsa</i>							
<i>Acartia</i> spp. *	2,690	2,451	730				
Calanidae							
<i>Calanus pacificus</i>							
<i>Calanus tenuicornis</i>							
<i>Calanus</i> spp.							
Calocalanidae							
<i>Calocalanus pavo</i>							
<i>Calocalanus styliremis</i>							
<i>Ischnocalanus tenuis</i>							
<i>Mecynocera clausi</i>							
Centropagidae							
<i>Centropages bradyi</i>							
Eucalanidae							
<i>Eucalanus bungi</i>							
<i>Eucalanus crassus</i>							
<i>Eucalanus</i> spp.							
<i>Rhincalanus nasutus</i>							
<hr/>							
* <i>Acartia tonsa</i> + <i>A. californiensis</i> .							

PLANKTON DATA	July-December 1977				STATION MDR-9	
	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanida (cont.)						
Lucicutiidae						
<i>Lucicutia flavidicornis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>						
Pontellidae						
<i>Labidocera jollae</i>						
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Ctenocalanus spp.</i>						
<i>Ctenocalanus vanus</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Temoridae						
<i>Tenora discudata</i>						
Tortaniidae						
<i>Tortanus discudatus</i>						
Copepoda caligoida						
Copepoda cyclopoida						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus spp.</i>						
Farranula curta						

## PLANKTON DATA

Page 3 of 4

July-December 1977

STATION MDR-9

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithoniidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>						
<i>Oithona similis</i>						
<i>Oithona spinirostris</i>						
<i>Oithona</i> sp.						
Oncidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncaea</i> sp.	22	2				
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachididae						
<i>Euterpina acutifrons</i>						
Cumacea						
Decapoda						
Anomura (zoea)						
<i>Anomura-porcellanidae (zoea)</i>						
<i>Brachyura (zoea, megalopa)</i>						
<i>Caridea (zoea)</i>						
<i>Macrura (zoea)</i>						
<i>Penaeida (zoea)</i>						
<i>Euphausiacea (calyptosoma)</i>						
Isopoda						
Mysidaceae						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)						
Cnidaria						
Hydrozoa (medusae)						
Siphonophora						

## PLANKTON DATA

July-December 1977

Page 4 of 4  
STATION MDR-9

	Jul	Aug	Sep	Oct	Nov	Dec
CHAETOGNATH						
CHORDATA						
Asciidae (larvae)	54	53	6	6	47	
Larvacea						
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)			1		23	2
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda						
Pelecyopoda (veliger)						
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

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## PLANKTON DATA

	Jan	Feb	Mar	Apr	May	Jun
<b>ANNELIDA POLYCHAETA</b>						
<b>ARTHROPODA CRUSTACEA</b>						
Amphipoda						
Gammaridae						
Caprellidae						
Cirripedia (nauplius, cypris)	91	150	150	14		
Cladocera						
Eudadne normarmei						
Eudadne spinifera						
Penilia avirostris						
Podon polyphemoides						
Copepoda calanoida (nauplius, copepodite)				4		
Acartiidae						
Acartia californiensis						
Acartia clausi						
Acartia danae						
Acartia negligens						
Acartia tonsa						
Acartia spp. *						
Calanidae						
Calanus pacificus						
Calanus temoricornis						
Calanus spp.						
Calocalanidae						
Calocalanus pavo						
Calocalanus styliferme						
Ischnocalanus tenuis						
Mecynocera clausi						
Centropagidae						
Centropages bradyi						
Eucalanidae						
Eucalanus bungi						
Eucalanus circassus						
Eucalanus spp.						
Rhinocalanus nasutus						

\*Acartia tonsa + A. oregonensis.

## PLANKTON DATA

January-June 1978

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STATION MDR-9

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flavigaster</i>						
Paracalanidae						
<i>Paracalanus parvus</i>	512	192	182	150	2	1
Pontellidae						
<i>Labidocera jollae</i>						
Pseudocalanidae						
<i>Labidocera trispinosa</i>	64				150	
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farroni</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapengens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus</i> spp.						
<i>Ctenocalanus vanus</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Tenoridae						
<i>Tenora dissecta</i>						
Tortaniidae						
<i>Tortanus discaudatus</i>						
Copepoda caligoida						
Copepoda cyclopoida						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus</i> spp.						
<i>Parramula curta</i>						

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## PLANKTON DATA

January-June 1978

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STATION MDR-9

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithoniidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>						
<i>Oithona similis</i>						
<i>Oithona spinirostris</i>						
<i>Oithona</i> sp.						
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncaeus</i> sp.						
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpina acutifrons</i>						
Cumacea						
Decapoda						
Anomura (zoea)						
Anomura-porcellanidae (zoea)						
<i>Brachyura</i> (zoea, megalopa)	256	256	182	150	24	2
Caridea (zoea)	171		150	150	20	
Macrura (zoea)						
Penaeida (zoea)						
Euphausiacea (calyptopsis)						
Isopoda						
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)						
CNIDARIA						
Hydrozoa (medusae)						
Siphonophora						
	150		128			

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## PLANKTON DATA

January-June 1978

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STATION MDR-9

	Jan	Feb	Mar	Apr	May	Jun
CHAETOGNATH						
CHORDATA						
Ascidacea (larvae)						
Larvacea	341					
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)						
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea ('auricularia')						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda						
Pelecypoda (veliger)	128					
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

PLANKTON DATA	July-December 1977					STATION MDR-10	
	Jul	Aug	Sep	Oct	Nov	Dec	
ANNELIDA POLYCHAETA	1			3			
ARTHROPODA CRUSTACEA							
Amphipoda							
Gammaridae	7	1					
Caprellidae	9						
Cirripedia (nauplius, cypris)	17	2	7				5
Cladocera							
Eudine nordmanni							
Eudine spinifera							
Penilia avirostris	1						
Podon polyphemoides	1						
Copepoda calanoida (nauplius, copepodite)	1						
Acartiidae							
Acartia californiensis							
Acartia clausi							14
Acartia danae							1
Acartia negligens							
Acartia tonsa							
Acartia spp.*							
Calanidae	153	127	895	294	13,356	153	
Calanus pacificus							
Calanus tenuicornis							
Calanus spp.							
Calocalanidae							
Calocalanus pavo							
Calocalanus styliremis							
Ischnocalanus tenuis							
Necynocera clausi							
Centropagidae							
Centropages bradyi							
Eucalanidae							
Eucalanus hungi							
Eucalanus crassus							
Eucalanus spp.							
Rhinocalanus nasutus							

\*Acartia tonsa + A. californiensis.

PLANKTON DATA	JULY-DECEMBER 1977	STATION MDR-10				
		JUL	AUG	SEP	OCT	NOV
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicuttiidae						
<i>Lucicutia flavigomis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>	6					
Pontellidae						
<i>Labidocera jollae</i>						
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus spp.</i>						
<i>Ctenocalanus vanus</i>						
Pseudocyclopidae						
<i>Pseudocyrtops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Temoridae						
<i>Temora discaudata</i>						
Tortaniidae						
<i>Tortanus discudatus</i>						
Copepoda caligoida						
Copepoda cyclopoida						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>						
<i>Corycaeus funifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus spp.</i>						
<i>Pinnamula curta</i>						

## PLANKTON DATA

July-December 1977

STATION MDR-10

ARTHEPODA CRUSTACEA (cont.)	Jul	Aug	Sep	Oct	Nov	Dec
Copepoda cyclopoida (cont.)						
Oithonidae						
<i>Oithona oculata</i>					1	
<i>Oithona planifera</i>						
<i>Oithona similis</i>						
<i>Oithona spinirostris</i>						
<i>Oithona sp.</i>						
Oncidae:						
<i>Onccea dentipes</i>						
<i>Onccea media</i>						
<i>Onccea mediterranea</i>						
<i>Onccea similis</i>						
<i>Onccea temesta</i>						
<i>Onccea sp.</i>						
Copepoda-harpacticoida	2					
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Eluterina acutifrons</i>						
Cumacea						
Decapoda						
Anomura (zoea)						
Anomura-porcellanidae (zoea)						
<i>Brachyura</i> (zoea, megalopa)	3		1			
Caridea (zoea)	1			1		
Macrura (zoea)						
Penaeida (zoea)						
Euphausiacea (calyptopsis)						
Isopoda						
Mysidaceae					1	
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)						
CNIDARIA					3	
Hydrozoa (medusae)						
Siphonophora						

July~December 1977

## PLANKTON DATA

	Jul	Aug	Sep	Oct	Nov	Dec
CHAETOGNATH						
CHORDATA						
Asciidae (larvae)	27	45				
Larvacea						
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)	1					
CTENOPHORA						
ECHINODERMAT						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)	1					
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda						
Pelecyypoda (veliger)						
NEMATODA	1					
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						
					14	

## PLANKTON DATA January-June 1978

	Jan	Feb	Mar	Apr	May	Jun
ANNELIDA POLYCHAETA						
ARTHROPODA CRUSTACEA						
Amphipoda	304					
Gammaridae						
Caprellidae						
Cirripedia						
(nauplius, cypris)						
Cladocera						
<em>Eudine nordmanni</em>						
<em>Eudine spinifera</em>						
<em>Penilia avirostris</em>						
<em>Podon polypnoides</em>						
Copepoda calanoida						
(nauplius, copepodite)						
Acartiidae						
<em>Acartia californiensis</em>						
<em>Acartia clausi</em>						
<em>Acartia danae</em>						
<em>Acartia negligens</em>						
<em>Acartia tonsa</em>						
<em>Acartia</em> spp. *						
Calanidae						
<em>Calanus pacificus</em>						
<em>Calanus tenuicornis</em>						
<em>Calanus</em> spp.						
Calocalanidae						
<em>Calocalanus pavo</em>						
<em>Calocalanus styliremis</em>						
<em>Ischnocalanus tenuis</em>						
<em>Megacyclops clausi</em>						
Centropagidae						
<em>Centropages bradyi</em>						
Eucalanidae						
<em>Eucalanus bungi</em>						
<em>Eucalanus crassus</em>						
<em>Eucalanus</em> spp.						
<em>Rhincalanus nasutus</em>						

\* *Acartia tonsa* + *A. californiensis*.

## PLANKTON DATA

January-June 1978

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STATION MDR-10

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flaviicornis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>	117		18			
Pontellidae						
<i>Labidoceru jollae</i>						
<i>Labidocera trispinosa</i>						
Pseudocalanidae						
<i>Clausocalanus arcicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>	23					
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>	47					
<i>Clausocalanus</i> spp.	117					
Ctenocalanus varus						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalimus</i>						
Temoridae						
<i>Temora discadata</i>						
Tortanidae						
<i>Tortamus discaudatus</i>	4					
Copepoda caligoida						
Copepoda cyclopoida						
Corycaeididae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus</i> spp.						
<i>Extranaula curta</i>						
						2
					1	
						4

January-June 1978

## PLANKTON DATA

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithonidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>						
<i>Oithona similis</i>						
<i>Oithona spinirostris</i>						
<i>Oithona</i> sp.	1					
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncaea</i> sp.						
Copepoda-harpacticoida	70					
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachididae						
<i>Euterpina acutifrons</i>						
Cumacea						
Decapoda						
Anomura (zoea)						
Anomura-porcellanidae (zoea)						
Brachyura (zoea, megalopa)	94					
Caridea (zoea)						
Macrura (zoea)						
Penaeida (zoea)						
Euphausiacea (calyptosis)						
Isopoda	70					
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)						
CNIDARIA						
Hydrozoa (medusae)	47					
Siphonophora	26					

## PLANKTON DATA

January-June 1978

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STATION MDR-10

	Jan	Feb	Mar	Apr	May	Jun
CHAETOGNATH				4		
CHORDATA						
Ascidacea (larvae)						
Larvacea	188		40			
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)	23		4			2
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)				4		
Pteropoda						
Pelecypoda (veliger)	117					
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

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	July-December 1977					Nov	Dec	STATION MDR-11
	Jul	Aug	Sep	Oct				
<b>PLANKTON DATA</b>								
<b>ANNELIDA POLYCHAETA</b>								
<b>ARTHROPODA CRUSTACEA</b>								
<b>Amphipoda</b>	6	1				1		
Gammariidae	3					1		
Caprellidae						1		
Cirripedia	498	14	38					
(nauplius, cypris)								
Cladocera								
<i>Eudine nordmanni</i>	1							
<i>Evdne spinifera</i>								
<i>Penilia avirostris</i>								
<i>Podon polyphemoides</i>	4							
Copepoda calanoida								
(nauplius, copepodite)	1							
Acartiidae								
<i>Acartia californiensis</i>								
<i>Acartia clausi</i>								
<i>Acartia damae</i>								
<i>Acartia negligens</i>								
<i>Acartia tonsa</i>								
<i>Acartia</i> spp.*	241	578	281			157	1,615	1,114
Calanidae								
<i>Calanus pacificus</i>								
<i>Calanus temicornis</i>								
<i>Calanus</i> spp.								
Calocalanidae								
<i>Calocalanus pavo</i>								
<i>Calocalanus styliremis</i>								
<i>Ischnocalanus tenuis</i>								
<i>Necynocera clausi</i>								
Centropagidae								
<i>Centropages bradyi</i>								
Eucalanidae								
<i>Eucalanus bungi</i>								
<i>Eucalanus crassus</i>								
<i>Eucalanus</i> spp.								
<i>Rhincalanus nasutus</i>								

\* Abundance taken + A mean from 2000

PLANTATION DATA

July-December 1977

STATION MOR-11

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Incicutiidae						
<i>Incicutia flaviicornis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>	3	34	6			
Pontellidae						
<i>Labidocera joliae</i>						
<i>Labidocera trispinosa</i>	3	1				
Pseudocalanidae						
<i>Clausocalanus acuticornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapengens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus spp.</i>						
<i>Ctenocalanus vanus</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalimus</i>						
Tremidae						
<i>Temora discaudata</i>						
Tortaniidae						
<i>Tortanus discaudatus</i>		1				
Copepoda cyclopoida						
Corycaelidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>	1	4	1			
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus spp.</i>						
<i>Farratula curta</i>						

July-December 1977

## PLANKTON DATA

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
<b>Copepoda cyclopoida (cont.)</b>						
Oithoniidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>						
<i>Oithona similis</i>						
<i>Oithona spinirostris</i>	3					
<i>Oithona</i> sp.						
Oncæidae						
<i>Oncæa dentipes</i>						
<i>Oncæa media</i>						
<i>Oncæa mediterranea</i>						
<i>Oncæa similis</i>						
<i>Oncæa venusta</i>						
<i>Oncæa</i> sp.						
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpina acutifrons</i>						
Cumacea						
Decapoda						
<i>Anomura</i> (zoea)						
<i>Anomura-porcellanidae</i> (zoea)						
<i>Brachyura</i> (zoea, megalopa)						
<i>Caridea</i> (zoea)						
<i>Macrura</i> (zoea)	16					
<i>Penaeida</i> (zoea)						
<i>Euphausiaceae</i> (calyptopsis)						
Isopoda						
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)						
CNIDARIA						
Hydrozoa (medusae)						
Siphonophora	3					

July-December 1977

## PLANKTON DATA

	Jul	Aug	Sep	Oct	Nov	Dec
CHAETOGNATH	1					
CHORDATA	2					
Asciadiacea (larvae)	89	82	8	2	8	
Larvacea		6				
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)						
CRINOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda	1					
Pelecypoda (veliger)						
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

## PLANKTON DATA

January-June 1978

Page 1 of 4  
STATION MDR-11

	Jan	Feb	Mar	Apr	May	Jun
<b>ANNELIDA POLYCHAETA</b>						
<b>ARTHROPODA CRUSTACEA</b>						
Amphipoda						
Gammaridae	22		251	56	4	6
Caprellidae					1	
Cirripedia	17	7	50	56	30	1
(nauplius, cypris)						
Cladocera						
Eudine nordmanni						
Eudine spinifera						
Penilia avirostris						
Podon polyphemoides				3		
Copepoda calanoida				1		
(nauplius, copepodite)						
Acartiidae						
Acartia californiensis						
Acartia clausi	7					
Acartia danae				28		
Acartia negligens						
Acartia tonsa						
Acartia spp. *						
Calanidae	16,089	13,746	36,809	26,527	311	414
Calanus pacificus						
Calanus tentacornis						
Calanus spp.	52					
Calocalanidae						
Calocalanus pavo						
Calocalanus styliremis						
Ischnocalanus tenuis						
Mecynocera clausi						
Centropagidae						
Centropages bradyi						
Eucalanidae						
Eucalanus bungi						
Eucalanus crassus						
Eucalanus spp.						
Rhinocalanus nasutus						

\*Acartia tonsa + A. californiensis.

January-June 1978

## PLANKTON DATA

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flavidicornis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>	979	436	302	56	6	1
Pontellidae						
<i>Labidocera jollae</i>						
<i>Labidocera trispinosa</i>		7	151	28	1	
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Ctenocalanus spp.</i>						
<i>Ctenocalanus varus</i>	69					
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Temoridae						
<i>Temora disscandata</i>						
Tortaniidae						
<i>Tortania discandatus</i>	7					
Copepoda caligoida						
Copepoda cyclopoida						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>	17					
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus spp.</i>						
Paranula curta						
					7	

## PLANKTON DATA

January-June 1978

Page 3 of 4  
STATION MDR-11

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithoniidae						
<i>Oithona oculata</i>					1	
<i>Oithona plumifera</i>						
<i>Oithona similis</i>						
<i>Oithona spinirostris</i>						
<i>Oithona</i> sp.					1	
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncaea</i> sp.						
Copepoda-harpacticoida				50		
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachididae						
<i>Buteropina acutifrons</i>					1	1
Cumacea						
Decapoda						
<i>Anomura</i> (zoea)					2	2
<i>Anomura-porcellanidae</i> (zoea)						
<i>Brachyura</i> (zoea, megalopa)						
<i>Caridea</i> (zoea)	69	22	50	56	3	5
<i>Macrura</i> (zoea)		7			1	
<i>Penaeida</i> (zoea)						
<i>Euphausiacea</i> (calyptosis)						
<i>Isopoda</i>						
<i>Mysidacea</i>						
<i>Ostracoda</i>						
<i>Pycnogonida</i>						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)					14	
CNIIDARIA						
Hydrozoa (medusae)						
Siphonophora						
	7	50	28	14	1	

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## PLANKTON DATA

January-June 1978

Page 4 of 4  
STATION MDR-11

	Jan	Feb	Mar	Apr	May	Jun
CHAETOGNATH	34		100			
CHORDATA						
Ascidacea (larvae)						
Larvacea	120	22	754	28	1	93
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)	17	7			6	2
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)	17	7				
Pteropoda						
Pelecyypoda (veliger)						
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

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## PLANKTON DATA

July-December 1978

STATION MDR-1

	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA		4	4			10
ARTHROPODA CRUSTACEA						
Amphipoda						
Gammaridae	2	4				
Caprellidae						
Cirripedia	5	9				
(nauplius, cypris)						
Cladocera						
<i>Eucypris nordmanni</i>	5	582	914	3	18	57
<i>Eucypris spinifera</i>		89	11	937	54	712
<i>Penilia avirostris</i>	1	84	48	31	566	614
<i>Podon polyphemoides</i>	497		97			4
Copepoda calanoida	1					
(nauplius, copepodite)						
Acartiidae						
<i>Acartia californiensis</i>	6	80	1,946	1	323	33
<i>Acartia clausi</i>	4	18	7			
<i>Acartia danae</i>						
<i>Acartia negligens</i>						
<i>Acartia tonsa</i>	157	698	336	3	3,466	1,592
<i>Acartia</i> spp.*						
Calanidae						
<i>Calanus pacificus</i>						
<i>Calanus tenuicornis</i>						
<i>Calanus</i> spp.						
Calocalanidae						
<i>Calocalanus pavo</i>						
<i>Calocalanus styliremis</i>						
<i>Ischnocalanus temensis</i>						
<i>Mecynocera clausi</i>						
Centropagidae						
<i>Centropages bradyi</i>						
Eucalanidae						
<i>Eucalanus bungi</i>						
<i>Eucalanus crassus</i>						
<i>Eucalanus</i> spp.						
<i>Rhinocalanus nasutus</i>						

\**Acartia tonsa* + *A. californiensis*.

STATION MDR-1

July-December 1978

## PLANKTON DATA

	Jul	Aug	Sep	Oct	Nov	Dec	
<b>ARTHROPODA CRUSTACEA (cont.)</b>							
Copepoda calanoida (cont.)							
Lucicutiidae							
<i>Lucicutia flavigomis</i>							
Paracalanidae							
<i>Paracalanus parvus</i>	25	529	235	11	377	156	
Pontellidae							
<i>Labidocera jollae</i>							
<i>Labidocera trispinosa</i>	2		26		36	364	
Pseudocalanidae							
<i>Clausocalanus arcuicornis</i>							
<i>Clausocalanus farrani</i>							
<i>Clausocalanus furcatus</i>	62				8	131	
<i>Clausocalanus jobei</i>							
<i>Clausocalanus lividus</i>							
<i>Clausocalanus mastigophorus</i>							
<i>Clausocalanus parapergens</i>							
<i>Clausocalanus paululus</i>							
<i>Clausocalanus pergens</i>							
<i>Clausocalanus spp.</i>	31		4		7	258	
<i>Ctenocalanus varus</i>	1		11			4	
Pseudocyclopidae							
<i>Pseudocyclops bilobatus</i>							
Pseudodiaptomidae							
<i>Pseudodiaptomus euryhalinus</i>							
Temoridae							
<i>Temora discodata</i>							
Tortaniidae							
<i>Tortanus discaudatus</i>		4				9	
Copepoda caligoida							
<i>Copepoda cyclopoida</i>							
Corycaeidae							
<i>Corycaeus amazonicus</i>	1						
<i>Corycaeus anglicus</i>	2						
<i>Corycaeus flaccus</i>							
<i>Corycaeus funifer</i>							
<i>Corycaeus giesbrechti</i>							
<i>Corycaeus spp.</i>							
Parramula curta							

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## PLANKTON DATA

July-December 1978

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STATION MDR-1

	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithoniidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>	1					
<i>Oithona similis</i>	4					
<i>Oithona spinirostris</i>						
<i>Oithona</i> sp.						
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>	2					
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>	1					
<i>Oncaea venusta</i>						
<i>Oncaea</i> sp.	1					
Copepoda-harpacticoida	1					
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpina acutifrons</i>						
Cumacea						
Decapoda						
Anomura (zoea)						
Anomura-porcellanidae (zoea)						
Brachyura (zoea, megalopa)	12					
Caridea (zoea)	1					
Macrura (zoea)						
Penaeida (zoea)						
Euphausiaceae (calyptopsis)						
Isopoda						
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)	12	31				
CNIDARIA						
Hydrozoa (medusae)	17	44				
Siphonophora						

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July-December 1978

## PLANKTON DATA

	Jul	Aug	Sep	Oct	Nov	Dec
CHAETOGNATH	7	4	4	2	224	123
CHORDATA						
Ascidacea (larvae)	5		2			
Larvacea	5	236	11	2	242	315
Thaliacea		4		638	126	835
Vertebrata						
Osteichthys (eggs larvae)	2		4	6		4
CTENOPHORA						
ECHINODERMATA						
Echinidea (echinopluteus)	1					
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)	1			4		
MOLLUSCA						
Gastropoda (veliger)	2		11	2	27	
Pteropoda						
Pelecyopoda (veliger)				22	18	4
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

January-June 1979

## PLANKTON DATA

	Jan	Feb	Mar	Apr	May	Jun
<b>ANNELIDA POLYCHAETA</b>	8	41		54		
<b>ARTHROPODA CRUSTACEA</b>						
<b>Amphipoda</b>						
Gammariidae	2					
Caprellidae						
Cirripedia	30	8	187		57	8
(nauplius, cypris)						
Cladocera						
Eudadne nordmanni	24	8	54	57		3
Eudadne spinifera	1					
Parilia aurirostris	28					
Podon polyphemoides						
Copepoda calanoida						
(nauplius, copepodite)	1					
Acartiidae						
Acartia californiensis	28	14	8	11,564	26,378	970
Acartia clausi			51	562		58
Acartia danae						
Acartia negligens						
Acartia tonsa						
Acartia spp.*						
Calanidae						
Calanus pacificus						
Calanus temucicornis						
Calanus spp.						
Calocalanidae						
Calocalanus pavo						
Calocalanus styliremoris						
Ischnocalanus temensis						
Mecynocera clausi						
Centropagidae						
Centropages bradyi						
Eucalanidae						
Eucalanus bungi						
Eucalanus crassus						
Eucalanus spp.						
Rhincalanus nasutus						

\*Acartia tonsa + A. californiensis.

## PLANKTON DATA

January-June 1979

Page 2 of 4  
STATION MDR-1

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flavigornis</i>	1					
Paracalanidae						
<i>Paracalanus parvus</i>	256	161	2,417	1,579	402	76
Pontellidae						
<i>Labidocera jollae</i>	2	3	8	161		
<i>Labidocera trispinosa</i>						
Pseudocalanidae						
<i>Clausocalanus arcicornis</i>						
<i>Clausocalanus farrani</i>	16	3	8		3	
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus spp.</i>	34	1			8	
<i>Ctenocalanus vanus</i>	2					
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalimus</i>						
Temoridae						
<i>Tamora discanidata</i>	1					
Tortanidae						
<i>Tortanus discanidatus</i>	1		25			
Copepoda caligoida						
<i>Copepoda cyclopoida</i>						
Corycaeidae						
<i>Corycaeus amazonicus</i>	2					
<i>Corycaeus anglicus</i>	80	4	17		115	
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus spp.</i>						
Paramalida curta						

January-June 1979

## PLANKTON DATA

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
<b>Copepoda cyclopoida (cont.)</b>						
Oithoniidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>	8	2	25	27	27	3
<i>Oithona similis</i>		3			134	
<i>Oithona spinirostris</i>	16				172	
<i>Oithona</i> sp.						
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>					3	
<i>Oncaea venusta</i>					5	
<i>Oncaea</i> sp.	39	2	27	27	3	
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpina acutifrons</i>	1	8	27	27	3	
Cumacea						
Decapoda						
Anomura (zoea)						
Anomura-porcellanidae (zoea)						
<i>Brachyura</i> (zoea, megalopa)	34	1	17	230	57	5
Caridea (zoea)						
<i>Macrura</i> (zoea)						
Penaeida (zoea)						
Euphausiacea (calyptosis)						
Isopoda						
Mysidacea	6					
Ostracoda					115	
Pycnogonida	1					
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)	2	3		187	287	45
CNIDARIA						
Hydrozoa (medusae)				25	348	8
Siphonophora	31	2	68			

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January-June 1979

## PLANKTON DATA

	Jan	Feb	Mar	Apr	May	Jun
CHAETOGNATH	21	6	25	54		
CHORDATA						
Asciidae (larvae)						
Larvacea	90	16	34	214	172	
Thaliacea		1				
Vertebrata						
Osteichthys (eggs larvae)	2	9	34		115	
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)	1					
Holothuroidea (auricularia)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda	36	2	17	27	57	
Pelecypoda (veliger)						
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

## PLANKTON DATA

July-December 1978

STATION NDR-2

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ANNELIDA POLYCHAETA</b>	3	22				
<b>ARTHROPODA CRUSTACEA</b>						
Amphipoda	2					
Gammaridae	2					
Caprellidae	2					
Cladocera	10	6				
<i>Cirripedia</i> (nauplius, cypris)						
<i>Eudine nordmanni</i>	7	950	6,050	13	29	
<i>Eudine spinifera</i>	1	44		92	176	36
<i>Penilia avirostris</i>		59	572		2,464	1,128
<i>Polon polyphemoides</i>	520	1,498	484			910
<i>Copepoda calanoida</i>	2					18
(nauplius, copepodite)						
Acartiidae						
<i>Acartia californiensis</i>	36	17	5,412	47	587	
<i>Acartia clausi</i>	21	760	44			
<i>Acartia danae</i>		50				
<i>Acartia negligens</i>						
<i>Acartia tonsa</i>	84		1,650	31	17,072	8,950
<i>Acartia</i> spp. *						
Calanidae						
<i>Calanus pacificus</i>						
<i>Calanus temicornis</i>						
<i>Calanus</i> spp.						
Calocalanidae						
<i>Calocalanus pavo</i>						
<i>Calocalanus styliferus</i>						
<i>Ischnocalanus temensis</i>						
<i>Mecynocera clausi</i>						
Centropagidae						
<i>Centropages bradyi</i>						
Eucalanidae						
<i>Eucalanus bungii</i>						
<i>Eucalanus crassus</i>						
<i>Eucalanus</i> spp.						
<i>Rhincalanus nasutus</i>						

\* *Acartia tonsa* + *A. californiensis*.

## PLANKTON DATA

July-December 1978

STATION MDR-2

	Jul	Aug	Sep	Oct	Nov	Dec	
<b>ARTHROPODA CRUSTACEA (cont.)</b>							
Copepoda calanoida (cont.)							
Lucicutiidae							
<i>Lucicutia flavigaster</i>							
Paracalanidae							
<i>Paracalanus parvus</i>	112	459	1,034	20	587	91	
Pontellidae							
<i>Labidocera jollae</i>	2	6	22	1	117	928	
<i>Labidocera trispinosa</i>							
Pseudocalanidae							
<i>Clausocalanus arcicornis</i>							
<i>Clausocalanus farrani</i>							
<i>Clausocalanus furcatus</i>	58	22	1				327
<i>Clausocalanus jaberii</i>							
<i>Clausocalanus lividus</i>							
<i>Clausocalanus mastigophorus</i>							
<i>Clausocalanus parapergens</i>							
<i>Clausocalanus paululus</i>							
<i>Clausocalanus pergens</i>							
<i>Clausocalanus spp.</i>	3	39	66	2			418
<i>Ctenocalanus varus</i>	1						
Pseudocyclopidae							
<i>Pseudocyclops bilobatus</i>							
Pseudodiaptomidae							
<i>Pseudodiaptomus euryhalinus</i>							
Temoridae							
<i>Temora discaudata</i>							
Tortoniidae							
<i>Tortanus discandatus</i>	1						29
Copepoda caligoida							
Copepoda cyclopoida							
Corycaeidae							
<i>Corycaeus amazonicus</i>							
<i>Corycaeus anglicus</i>	4	36	572	2	851		36
<i>Corycaeus flaccus</i>							
<i>Corycaeus furcifer</i>							
<i>Corycaeus giesbrechti</i>							
<i>Corycaeus spp.</i>							
<i>Mirranula curta</i>							

July-December 1978

## PLANKTON DATA

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithonidae						
<i>Oithona oculata</i>	1					1
<i>Oithona plumifera</i>	2					
<i>Oithona similis</i>	14					
<i>Oithona spinirostris</i>						
<i>Oithona</i> sp.						
Oncopidae						
<i>Oncaea dentipes</i>	1					
<i>Oncaea media</i>	2					
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>		2				
<i>Oncaea veruseta</i>		2				
<i>Oncaea</i> sp.	2					
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>		1				
Tachidiidae						
Euterpina acutifrons						
Cumacea						
Decapoda						
Anomura (zoea)						
Anomura-porcellanidae (zoea)						
Brachyura (zoea, megalopa)	8		3			
Caridea (zoea)	1					
Macrura (zoea)						
Penaeida (zoea)	2					
Euphausiacea (calyptopsis)						
Isopoda						
Mysidacea						
Ostracoda	6	22				29
Pycnogonida						
BRACHIOPODA (larvae)	28	17	22	4	411	36
BRYOZOA (cyphonautes)						
Cnidaria						
Hydrozoa (medusae)	44	11	44	4	88	54
Siphonophora	1					59

## PLANKTON DATA

July-December 1978

Page 4 of 4

STATION MDR-2

	Jul	Aug	Sep	Oct	Nov	Dec
CHAETOGNATH	1	8	110	1	469	73
CHORDATA						
Asciidiacea (larvae)	1		88	2		
Larvacea	10	226	88	99	1,737	
Thaliacea	6	6	88		264	782
Vertebrata						
Osteichthys (eggs larvae)	3	8	88	2		59
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)	1	19			7	
MOLLUSCA						
Gastropoda (veliger)	1			44		
Pteropoda						
Pelecypoda (veliger)	3	6	132			18
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

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## PLANKTON DATA

	January-June 1979					
	Jan	Feb	Mar	Apr	May	
	Jun					
<b>ANNELIDA POLYCHAETA</b>	193	5		20	124	80
<b>ARTHROPODA CRUSTACEA</b>						
Amphipoda						
Gammaridae						
Caprellidae						
Cirripedia						
(nauplius, cypris)	4	16	17	243		107
Cladocera						27
<i>Eudine norimana</i>	37	12	20			
<i>Eudine spinifera</i>	2					
<i>Penilia avirostris</i>						
<i>Podon polyphemoides</i>						
Copepoda calanoida						
(nauplius, copepodite)						
Acartiidae						
Acartia californiensis	136	16	81	4,390	7,268	11,840
Acartia clausi	1		12	182		
Acartia danae						
Acartia negligens						
Acartia tonsa	7	210	1,708	3,742	1,056	1,133
Acartia spp.*						
Calanidae						
<i>Calanus pacificus</i>						
<i>Calanus tenuicornis</i>						
<i>Calanus</i> spp.						
Calocalanidae						
<i>Calocalanus pavo</i>						
<i>Calocalanus styliferus</i>						
<i>Icalanocalanus tenuis</i>						
<i>Megacyclops clausi</i>						
Centropagidae						
<i>Centropages bradyi</i>						
Eucalanidae						
<i>Eucalanus bungi</i>						
<i>Eucalanus crassus</i>						
<i>Eucalanus</i> spp.						
<i>Rhincalanus nasutus</i>						

\**Acartia tonsa* + *A. californiensis*.

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## PLANKTON DATA

January-June 1979

Page 2 of 4  
STATION MDR-2

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flavigomis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>	518	61	1,191	1,659	62	213
Pontellidae						
<i>Labiocera trispinosa</i>	5	5		303		21
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farmani</i>						
<i>Clausocalanus furcatus</i>			1	6		
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pengens</i>						
<i>Clausocalanus spp.</i>						
<i>Ctenocalanus vanus</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus erythralinus</i>						
Temoridae						
<i>Temora discudata</i>						
Tortoniidae						
<i>Tortamus discaudatus</i>	1					
Copepoda caligoida						
Copepoda cyclopoida						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus spp.</i>						
Firmaniidae						
<i>Firmaniella curta</i>						

## PLANKTON DATA

Page 3 of 4  
STATION MDR-2  
January-June 1979

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithonidae						
<i>Oithona oculata</i>					40	
<i>Oithona plumifera</i>				2	6	
<i>Oithona similis</i>			9	23	20	
<i>Oithona spinirostris</i>						80
<i>Oithona</i> sp.						62
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncaea</i> sp.			9			
Copepoda-harpacticoida			7	11	6	
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpina acutifrons</i>			1			
Cumacea						
Decapoda						
Anomura (zoea)						
<i>Anomura</i> (zoea)						
<i>Anomura-porcellanidae</i> (zoea)						
Brachyura (zoea, megalopa)			2	11	12	
Caridea (zoea)			5			
Macrura (zoea)						
Penaeida (zoea)						
Euphausiacea (calyptosis)						
Isopoda						
Mysidacea						
Ostracoda			26			
Pycnogonida			7			
BRACHIOPODA (larvae)				1		
BRYOZOA (cyphonautes)			10	11	12	
CNIDARIA						202
Hydrozoa (medusae)				1	35	
Siphonophora				9	587	
						21
						293
						27

## PLANKTON DATA

January-June 1979

Page 4 of 4  
STATION MDR-2

	Jan	Feb	Mar	Apr	May	Jun
CHAETOCNATH	23	2	41	40		
CHORDATA						27
Ascidacea (larvae)						
Larvacea						
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)	4	5	41			
CTENOPHORA			12			
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						27
Gastropoda (veliger)						
Pteropoda			12		21	
Pelecypoda (veliger)	107			46		
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						
					20	

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## PLANKTON DATA

July-December 1978

STATION MDR-3

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ANNELIDA POLYCHAETA</b>						
<b>ARTHROPODA CRUSTACEA</b>						
<i>Amphipoda</i>						
<i>Gammaridae</i>	4					
<i>Caprellidae</i>	1	7				
<i>Cirripedia</i>	5					9
( <i>nauplius, cypris</i> )						
<i>Cladocera</i>						
<i>Eubosmina nordmanni</i>	5	239	151	1	14	60
<i>Eudine spinifera</i>	1	7		4	3	931
<i>Penilia avirostris</i>	1	92	8			
<i>Podon polypnoides</i>	588	317	34			
<i>Copepoda calanoida</i>	2					
( <i>nauplius, copepodite</i> )						
<i>Acartiidae</i>						
<i>Acartia californiensis</i>	276	2,281	773	231	690	46
<i>Acartia clausi</i>	6	25				
<i>Acartia danae</i>						
<i>Acartia negligens</i>						
<i>Acartia tonsa</i>	15	634				
<i>Acartia</i> spp.*						
<i>Calanidae</i>						
<i>Calanus pacificus</i>	1					
<i>Calanus tenacicornis</i>						
<i>Calanus</i> spp.						
<i>Calocalanidae</i>						
<i>Calocalanus pavo</i>						
<i>Calocalanus styliremis</i>						
<i>Ischnocalanus tenuis</i>						
<i>Mecynocera clausi</i>						
<i>Centropagidae</i>						
<i>Centropages bradyi</i>						
<i>Eucalanidae</i>						
<i>Eucalanus bungi</i>						
<i>Eucalanus crassus</i>						
<i>Eucalanus</i> spp.						
<i>Rhincalanus nasutus</i>						

\**Acartia tonsa* + *A. californiensis*.

## PLANKTON DATA

July-December 1978

STATION MDR-3

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flavigomis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>	53	148	52	2	231	32
Pontellidae						
<i>Labidocera jollae</i>	3	7	4		22	154
<i>Labidocera trispinosa</i>						
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>	7			2		116
<i>Clausocalanus jobei</i>						19
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus spp.</i>						
<i>Ctenocalanus vanus</i>	3			1		135
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Temoridae						
<i>Temora discudata</i>						
Tortoniidae						
<i>Tortanus discaudatus</i>	4					
Copepoda caligoida						
Copepoda cyclopoida						
Corycaciaeidae						
<i>Corycaceus amazonicus</i>						
<i>Corycaceus anglicus</i>						
<i>Corycaceus flaccus</i>						
<i>Corycaceus furcifer</i>						
<i>Corycaceus giesbrechti</i>						
<i>Corycaceus spp.</i>						
<i>Faranula curta</i>						

## PLANKTON DATA

July-December 1978

Page 3 of 4

STATION MDR-3

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithoniidae						
<i>Oithona oculata</i>	7					
<i>Oithona plumifera</i>		2				
<i>Oithona similis</i>	20					
<i>Oithona spinirostris</i>			2			
<i>Oithona</i> sp.		1				
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>	1					
<i>Oncaea mediterranea</i>	1					
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncaea</i> sp.	2					
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachididae						
<i>Euterpnina acutifrons</i>						
Cumacea						
Decapoda						
<i>Anomura</i> (zoea)						
Anomura-porcellanidae (zoea)						
<i>Brachynura</i> (zoea, megalopa)	8	18	4			
<i>Caridea</i> (zoea)	8	4				
<i>Macrura</i> (zoea)						
<i>Penaeida</i> (zoea)						
<i>Euphausiacea</i> (calyptrosis)						
<i>Isopoda</i>						
<i>Mysidacea</i>						
<i>Ostracoda</i>	2					
<i>Pycnogonida</i>						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)	32	10	2			
CNIIDARIA						
HYDROZOA (medusae)						
SIPHONOPHORA	42					
						5
						23

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## PLANKTON DATA

July-December 1978

Page 4 of 4  
STATION MDR-3

	Jul	Aug	Sep	Oct	Nov	Dec
CHAETOGNATH	1					80
CHORDATA						
Ascidiaeа (larvae)	10	25	21	14	3	
Larvacea	8	60		15	60	368
Thaliacea	2			2	1.6	228
Vertebrata						
Osteichthys (eggs larvae)	3			2		5
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)			1			
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)				2	19	
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda						
Pelecyopoda (veliger)	4		4			
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercoaria)						
PHORONIDA (actinotroch)				2		

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## PLANKTON DATA

Page 1 of 4

## STATION MDR-3

	January-June 1979					
	Jan	Feb	Mar	Apr	May	Jun
<b>ANNELIDA POLYCHAETA</b>	30		3	108		777
<b>ARTHROPODA CRUSTACEA</b>						
Amphipoda	7					
Gammariidae						
Caprellidae						
Cirripedia (nauplius, cypris)	11		3	108		388
Cladocera						
<i>Eucadne nordmanni</i>	15					
<i>Eucadne spinifera</i>						
<i>Perilia avirostris</i>						
<i>Podon polyphemoides</i>	1		2			
Copepoda calanoida (nauplius, copepodite)						
Acartiidae						
<i>Acartia californiensis</i>	711	521	127	25,019	161,969	1,644
<i>Acartia clausi</i>		1	35	1,083		6
<i>Acartia danae</i>						
<i>Acartia negligens</i>						
<i>Acartia tonsa</i>	157	143	354	2,166	5,438	
<i>Acartia</i> spp. *						
Calanidae						
<i>Calanus pacificus</i>	15					
<i>Calanus tenuicornis</i>						
<i>Calanus</i> spp.						
Calocalanidae						
<i>Calocalanus pavo</i>						
<i>Calocalanus styliremis</i>						
<i>Technocalanus tenuis</i>						
<i>Mecynocera clausi</i>						
Centropagidae						
<i>Centropages bradyi</i>						
Eucalanidae						
<i>Eucalanus bungi</i>						
<i>Eucalanus crassus</i>						
<i>Eucalanus</i> spp.						
<i>Rhinoalanus nasutus</i>						
<i>*Acartia tonsa + A. californiensis.</i>						1

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## PLANKTON DATA

January-June 1979

Page 2 of 4  
STATION MDR-3

ARTHROPODA CRUSTACEA (cont.)	Jan	Feb	Mar	Apr	May	Jun
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flavigormis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>	1,550	158	145	1,732		11
Pontellidae						
<i>Labidocera jollae</i>						
<i>Labidocera trispinosa</i>	15	3				
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus spp.</i>						
<i>Ctenocalanus varius</i>	15		2			
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Temoridae						
<i>Temora discaudata</i>						
Tortaniidae						
<i>Tortanus discaudatus</i>	1		2			
Copepoda caligoida						
<i>Copepoda cyclopoida</i>						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>	52		15		3	
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus spp.</i>						
Farfantula curta						

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## PLANKTON DATA

January-June 1979

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STATION MDR-3

ARTHROPODA CRUSTACEA (cont.)	Jan	Feb	Mar	Apr	May	Jun
Copepoda cyclopoida (cont.)						
Oithoniidae						
<i>Oithona oculata</i>					2	
<i>Oithona planifera</i>	6				2	
<i>Oithona similis</i>	1				3	
<i>Oithona spinirostris</i>					108	
<i>Oithona</i> sp.						
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaca venusta</i>						
<i>Oncasa</i> sp.						
Copepoda-harpacticoida	7					
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpina acutifrons</i>						
Cumacea						
Dacapoda						
Anomura (zoea)						
Anomura-porcellanidae (zoea)						
<i>Brachyura</i> (zoa, megalopa)						
Caridea (zoa)						
Macrura (zoa)						
Penaeida (zoa)						
Euphausiacea (calyptopsis)						
Isopoda						
Mysidacea	90					
Ostracoda	7					
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cypohnautes)						
CNIDARIA						
Hydrozoa (medusae)	1					
Siphonophora	7					
					19	
					54	
					2	
						6
						975

## PLANKTON DATA

January-June 1979

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STATION MDR-3

	Jan	Feb	Mar	Apr	May	Jun
CHAETOGNATH	60	1	2			
CHORDATA						
Ascidacea (larvae)	7					
Larvacea	15	18	3	271	388	6
Thaliacea						
VERTEBRATA						
Osteichthys (eggs larvae)	4		5	54		11
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)	7					
Pteropoda						
Pelecypoda (veliger)			2	54		
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

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PLANKTON DATA	July-December 1978					STATION MDR-4		
	Jul	Aug	Sep	Oct	Nov	Dec		
ANNELIDA POLYCHAETA	9	5						
ARTHROPODA CRUSTACEA								
Amphipoda								
Gammaridae	9	10						
Caprellidae		3						
Cirripedia	20							
(nauplius, cypris)								
Cladocera								
<i>Evdadne nordmanni</i>	35	49	36				48	
<i>Evdadne spirifera</i>								
<i>Penitia avirostris</i>		18	1				1,308	
<i>Podon polyphemoides</i>	321	143	169				129	
Copepoda calanoida								
(nauplius, copepodite)							1	
Acartiidae								
<i>Acartia californiensis</i>	6,494	2,416	521	112	215		424	
<i>Acartia clausi</i>								
<i>Acartia danae</i>								
<i>Acartia negligens</i>								
<i>Acartia tonsa</i>								
<i>Acartia</i> spp.*								
Calanidae								
<i>Calanus pacificus</i>								
<i>Calanus temicornis</i>								
<i>Calanus</i> spp.								
Calocalanidae								
<i>Calocalanus pavo</i>								
<i>Calocalanus styliremis</i>								
<i>Tachocalanus tenuis</i>								
<i>Mecynocera clausi</i>								
Centropagidae								
<i>Centropages bradyi</i>								
Eucalanidae								
<i>Eucalanus bungii</i>								
<i>Eucalanus crassus</i>								
<i>Eucalanus</i> spp.								
<i>Rhincalanus nasutus</i>								

\**Acartia tonsa* + *A. californiensis*.

July-December 1978

PLANKTON DATA

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flavigomis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>	18	11	2	23	13	
Pontellidae						
<i>Labiocera jollae</i>						
<i>Labiocera trispinosa</i>	26	1	1		18	
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farroni</i>						
<i>Clausocalanus furcatus</i>	8				8	
<i>Clausocalanus jobei</i>					2	
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus spp.</i>						
<i>Ctenocalanus varus</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus erythrimus</i>						
Temoridae						
<i>Temora discodata</i>						
Tortaniidae						
<i>Tortanus discaudatus</i>	5	3		2		
Copepoda caligoida						
Copepoda cyclopoida						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>	8	4	1	29	5	
<i>Corycaeus furcifer</i>						
<i>Corycaeus griesbrechii</i>						
<i>Corycaeus spp.</i>						
Paranula curta						

PLANKTON DATA	July-December 1978				STATION MDR-4
	Jul.	Aug.	Sep.	Oct.	
ARTHROPODA CRUSTACEA (cont.)					
Copepoda cyclopoida (cont.)					
Oithonidae					
<i>Oithona oculata</i>	1				
<i>Oithona plumifera</i>					
<i>Oithona similis</i>					
<i>Oithona spinirostris</i>	9				
<i>Oithona</i> sp.					
Oncidae					
<i>Onccea dentipes</i>					
<i>Onccea media</i>					
<i>Onccea mediterranea</i>					
<i>Onccea similis</i>					
<i>Onccea venusta</i>					
<i>Onccea</i> sp.	9				
Copepoda-harpacticoida			1		
Ectinosomidae					
Microsetella norvegica					
Tachidiidae					
<i>Euterpina acutifrons</i>	3				
Cumacea					
Decapoda					
<i>Anomura</i> (zoea)					
<i>Anomura-porcellanidae</i> (zoea)					
<i>Brachyura</i> (zoea, megalopa)					
<i>Caridea</i> (zoea)					
<i>Macrura</i> (zoea)					
<i>Penaeida</i> (zoea)					
<i>Euphausiacea</i> (calyptopsis)	17				
Isopoda					
Mysidacea					
Ostracoda					
Pycnogonida					
RACHIPODIDA (larvae)					
					2

## PLANKTON DATA

July-December 1978

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STATION MDR-4

	Jul	Aug	Sep	Oct	Nov	Dec
CHAETOGNATH	9			7		2
CHORDATA						
Asciidiacea (larvae)	9	23	25	6	5	5
Larvacea	9		3	7	5	79
Thaliacea				2	2	147
Vertebrata						
Osteichthys (eggs larvae)	9		1	1	1	5
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda						
Pelecypoda (veliger)			1			
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

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## PLANKTON DATA

January-June 1979

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STATION MDR-4

	Jan	Feb	Mar	Apr	May	Jun
<b>ANNELIDA POLYCHAETA</b>	428	172	8			
<b>ARTHROPODA CRUSTACEA</b>						
Amphipoda						
Gammaridae						
Caprellidae						
Cirripedia						
(nauplius, cypris)						
Cladocera						
<i>Eudine normannii</i>						
<i>Eudine spinifera</i>						
<i>Penilia avirostris</i>						
<i>Podon polyphemoides</i>						
Copepoda calanoida						
(nauplius, copepodite)						
Acartiidae						
<i>Acartia californiensis</i>	21,732	12,041	2,425	93,587	62,385	28,864
<i>Acartia clausi</i>						
<i>Acartia danae</i>				8	2,037	
<i>Acartia negligens</i>						
<i>Acartia tonsa</i>	490	279	235	1,198		
<i>Acartia</i> spp.*						
Calanidae						
<i>Calanus pacificus</i>						
<i>Calanus tentacornis</i>						
<i>Calanus</i> spp.						
Calocalanidae						
<i>Calocalanus pavo</i>						
<i>Calocalanus styliremis</i>						
<i>Ischnocalanus tenuis</i>						
<i>Mecynocera clausi</i>						
Centropagidae						
<i>Centropages bradyi</i>						
Eucalanidae						
<i>Eucalanus bungi</i>						
<i>Eucalanus crassus</i>						
<i>Eucalanus</i> spp.						
Rhincalanus nasutus						

\**Acartia tonsa* + *A. californiensis*.

## PLANKTON DATA

January-June 1979

Page 2 of 4

STATION MDR-4

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flavigomis</i>						
Paracalanidae						
Paracalanus <i>parvus</i>	4,591	386	446	599		
Pontellidae						
<i>Labidocera jollae</i>						
<i>Labidocera trispinosa</i>	122					359
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapengens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pengens</i>						
<i>Clausocalanus</i> spp.						
<i>Ctenocalanus vanus</i>	61					
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						8
Temoridae						
<i>Temora disscutata</i>						
Tortoniidae						
<i>Tortanus disscutatus</i>						
Copepoda caligoida						
Copepoda cyclopoida						
Corycaeidæ						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus</i> spp.						
<i>Parnauula curta</i>						

	Jun	May	Apr	Mar	Feb	Jan
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithoniidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>	21					
<i>Oithona similis</i>						
<i>Oithona spinirostris</i>						
<i>Oithona</i> sp.						
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncaea</i> sp.						
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpina acutifrons</i>	61					
Cumacea						
Decapoda						
<i>Anomura</i> (zoea)						
<i>Anomura-porcellanidae</i> (zoea)						
<i>Brachyura</i> (zoea, megalopa)						
<i>Caridea</i> (zoea)	245					
<i>Macrura</i> (zoea)						
<i>Penaeida</i> (zoea)						
<i>Euphausiaceae</i> (calyptosis)						
<i>Isopoda</i>	61					
<i>Mysidacea</i>						
<i>Ostracoda</i>						
<i>Pycnogonida</i>						
RACHIPODIDA (larvae)						
RYOZOA (cyphonautes)						
ENIDARIA						
Hydrozoa (medusae)	240					
						31

## PLANKTON DATA

January-June 1979

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STATION MDR-4

	Jan	Feb	Mar	Apr	May	Jun
CHAETOGNATH	673					
CHORDATA						
Ascidacea (larvae)						
Larvacea	21	23	599			433
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)						
CTENOPHORA						
ECHINODERDATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)	61					
Pteropoda						
Pelecypoda (veliger)	245		16			
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

PLANKTON DATA	July-December 1978					STATION MDR-5		
	Jul	Aug	Sep	Oct	Nov	Dec		
<b>ANNELIDA POLYCHAETA</b>								
<b>ARTHROPODA CRUSTACEA</b>								
Amphipoda								
Gammaridae								
Caprellidae								
Cirripedia								
(nauplius, cypris)								
Cladocera								
<i>Eudadne nordmanni</i>								
<i>Eudadne spinifera</i>								
<i>Penilia australis</i>								
<i>Podon polyphemoides</i>								
Copepoda calanoida								
(nauplius, copepodite)								
Acartiidae								
<i>Acartia californiensis</i>	564	1,236	515	651	188	1,219		
<i>Acartia clausi</i>								
<i>Acartia danie</i>								
<i>Acartia negligens</i>								
<i>Acartia tonsa</i>								
<i>Acartia</i> spp. *								
Calanidae								
<i>Calanus pacificus</i>								
<i>Calanus tenuicornis</i>								
<i>Calanus</i> spp.								
Calocalanidae								
<i>Calocalanus pavo</i>								
<i>Calocalanus styliferensis</i>								
<i>Ischnocalanus temmis</i>								
<i>Mecynocera clausi</i>								
Centropagidae								
<i>Centropages bradyi</i>								
Eucalanidae								
<i>Eucalanus bungi</i>								
<i>Eucalanus crassus</i>								
<i>Eucalanus</i> spp.								
<i>Rhincalanus nasutus</i>								

\**Acartia tonsa* + *A. californiensis*.

## PLANKTON DATA

July-December 1978

STATION MDR-5

ARTHOPODA CRUSTACEA (cont.)	Jul	Aug	Sep	Oct	Nov	Dec
<i>Copepoda calanoida (cont.)</i>						
<i>Lucicutiidae</i>						
<i>Lucicutia flavidornis</i>						
<i>Paracalanidae</i>						
<i>Paracalanus parvus</i>	25	3	5	4	4	15
<i>Pontellidae</i>						
<i>Labidocera jollae</i>						
<i>Labidocera trispinosa</i>	22	8	1	11	3	
<i>Pseudocalanidae</i>						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus spp.</i>						
<i>Ctenocalanus varius</i>						
<i>Pseudocyclopidae</i>						
<i>Pseudocyclops bilobatus</i>						
<i>Pseudodiaptomidae</i>						
<i>Pseudodiaptomus euryhalinus</i>						
<i>Temoridae</i>						
<i>Temora discodata</i>						
<i>Tortanidae</i>						
<i>Tortanus discodatus</i>						4
<i>Copepoda caligoidea</i>						
<i>Copepoda cyclopoida</i>						
<i>Corycaeidae</i>						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>	2	6	1	2	23	2
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus spp.</i>						
<i>Farronula curta</i>						

## PLANKTON DATA

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July-December 1978

STATION MDR-5

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithonidae						
<i>Oithona oculata</i>						
<i>Oithona fluviifera</i>						
<i>Oithona similis</i>						
<i>Oithona spinirostris</i>						
<i>Oithona</i> sp.	3					
Oncidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncaea</i> sp.						
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpina acutifrons</i>						
Cumacea						
Decapoda						
Anomura (zoea)						
Anomura-porcellanidae (zoea)						
<i>Brachyura</i> (zoea, megalopa)	2		19		1	
Caridea (zoea)			6		3	
Macrura (zoea)					1	
Penaeida (zoea)						
<i>Euphausiacea</i> (calyptosus)	4					
Isopoda						
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)						
CNIDARIA						
Hydrozoa (medusae)						
Siphonophora	6				1	
						8

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## PLANKTON DATA

July-December 1978

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STATION MDR-5

	Jul	Aug	Sep	Oct	Nov	Dec
CHAETOGNATH			1	2	10	2
CHORDATA						
Asciidae (larvae)	72	67	49	5	10	
Larvacea	4	6		2	2	180
Thaliacea						33
Vertebrata						
Osteichthys (eggs larvae)	4	8		1	1	
CTENOPHORA						
ECHINODEMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						36
Gastropoda (veliger)						
Pteropoda						
Pelecypoda (veliger)			1			
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

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## PLANKTON DATA

January-June 1979

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STATION MDR-5

	Jan	Feb	Mar	Apr	May	Jun
<b>ANNELIDA POLYCHAETA</b>	239	42				1,207
<b>ARTHROPODA CRUSTACEA</b>						
Amphipoda						
Gammaridae						
Caprellidae						
Cirripedia	40					4
(nauplius, cypris)						
Cladocera						
Eudore nordmanni						2
Eudore spinifera						
Penilia avirostris						
Podon polypnoides						
Copepoda calanoida						
(nauplius, copepodite)						
Acartiidae	7,167	22,057	22,944	130,662	185,856	1,544
Acartia californiensis						
Acartia clausi			42	1,001		
Acartia danae						
Acartia negligens						
Acartia tonsa	173	120	85	1,502	2,011	
Acartia spp. *						
Calanidae						
Calanus pacificus						
Calanus tenuicornis						
Calanus spp.						
Calocalanidae						
Calocalanus pavo						
Calocalanus styliferinus						
Ischnocalanus tenuis						
Mecynocera clausi						
Centropagidae						
Centropages bradyi						
Eucalanidae						
Eucalanus bungi						
Eucalanus crassus						
Eucalanus spp.						
Rhincalanus nasutus						

\*Acartia tonsa + A. californiensis.

## PLANKTON DATA

January-June 1979

Page 2 of 4  
STATION MDR-5

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flaviicornis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>	323	319	424	751		
Pontellidae						
<i>Labidocera jollae</i>						
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus fornaci</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigopterus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Ctenocalanus spp.</i>	58					
<i>Ctenocalanus varus</i>		12				
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalimus</i>						
Temoridae						
<i>Temora discaudata</i>						
Tortoniidae						
<i>Tortonus discudatus</i>						
Copepoda caligoida						
Copepoda cyclopoida						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus spp.</i>						
<i>Barranula curta</i>						

## PLANKTON DATA

January-June 1979

Page 3 of 4  
STATION MDR-5

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithonidae						
<i>Oithona oculata</i>						
<i>Oithona punctifera</i>						
<i>Oithona similis</i>						2
<i>Oithona spinirostris</i>						
<i>Oithona</i> sp.						
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncaea</i> sp.						
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpina acutifrons</i>				23		
Cumacea						
Decapoda						
<i>Anomira</i> (zoea)						2
Anomura-porcellanidae (zoea)						
<i>Brachynira</i> (zoea, megalopa)						
<i>Caridea</i> (zoea)						
<i>Macrura</i> (zoea)						
<i>Penaeida</i> (zoea)						
Euphausiacea (calyptosis)						
Isopoda						
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cypbonautae)						
CNIDARIA						
Hydrozoa (medusae)						
Siphonophora						
	40					
		42				
			250			
				40		
					2	
						2

January-June 1979

## PLANKTON DATA

	Jan	Feb	Mar	Apr	May	Jun
CHAETOGNATH	277		42			
CHORDATA						
Asciidae (larvae)						
Larvacea						29
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)						
Ctenophora						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda						
Pelecypoda (veliger)						69
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

PLANKTON DATA	STATION MDR-6				
	Jul	Aug	Sep	Oct	Nov
ANNELIDA POLYCHAETA					
ARTHROPODA CRUSTACEA					
Amphipoda					
Gammaridae					
Caprellidae					
Cirripedia					
(nauplius, cypris)					
Cladocera					
<i>Eudine nordmanni</i>	1	3			
<i>Eudine spinifera</i>		4	20		
<i>Penilia avirostris</i>		1			7
<i>Podon polyphemoides</i>	55	14	20		1
Copepoda calanoida					
(nauplius, copepodite)					
Acartiidae					
<i>Acartia californiensis</i>	136	246	734	194	2,560
<i>Acartia clausi</i>					880
<i>Acartia danae</i>					
<i>Acartia negligens</i>					
<i>Acartia tonsa</i>			3		
<i>Acartia</i> spp.*					20
calanidae					
<i>Calanus pacificus</i>					
<i>Calanus tentacornis</i>					
<i>Calanus</i> spp.					
Calocalanidae					
<i>Caloculus pavo</i>					
<i>Calocalanus styliferus</i>					
<i>Ischnocalanus tenuis</i>					
<i>Mecynocera clausi</i>					
Centropagidae					
<i>Centropages bradyi</i>					
Eucalanidae					
<i>Eucalanus bungi</i>					
<i>Eucalanus crassus</i>					
<i>Eucalanus</i> spp.					
<i>Rhincalanus nasutus</i>					

\**Acartia tonsa* + *A. californiensis*.

## PLANKTON DATA

July-December 1978

STATION MDR-6

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flavidicornis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>	2	3	6			
Pontellidae						5
<i>Pontella jollae</i>						
Labidocera trispinosa	1	2				
Labidocera trispinosa						
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farmani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						2
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus spp.</i>						
<i>Ctenocalanus varius</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Temoridae						
<i>Temora discaudata</i>						
Tortanidae						
<i>Tortanus discaudatus</i>						
Copepoda caligoida						
Copepoda cyclopoida						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus spp.</i>						
<i>Zeramula exuta</i>						3

## PLANKTON DATA

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July-December 1978

STATION MDR-6

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithonidae						
<i>Oithona ovalata</i>						2
<i>Oithona plumifera</i>						
<i>Oithona similis</i>						
<i>Oithona spinirostris</i>						
<i>Oithona sp.</i>						2
Oncidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncaea sp.</i>						
Copepoda-harpacticoida	1					
Ectiniosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpina acutifrons</i>	1					
Cumacea						
Decapoda						
Anomura (zoea)						
Anomura-porcellanidae (zoea)						
<i>Brachyura (zoea, megalopa)</i>	6	6	4			
<i>Caridea (zoea)</i>	1	2				
<i>Macrura (zoea)</i>						
<i>Penaeida (zoea)</i>						
<i>Euphausiacea (calyptopsis)</i>						
Isopoda						
Mysidacea						
Ostracoda	1					
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)	2	1	1			
Cnidaria						
Hydrozoa (medusae)	2					
Siphonophora						

## PLANKTON DATA

July-December 1978

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STATION MDR-6

	Jul	Aug	Sep	Oct	Nov	Dec
CHAETOGNATH						
CHORDATA						
Ascidacea (larvae)	55	64	70	18		
Larvacea	1	7				
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)	2					
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda						
Pelecyopoda (veliger)						
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

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## PLANKTON DATA

January-June 1979

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STATION MDR-6

	Jan	Feb	Mar	Apr	May	Jun
<b>ANNELIDA POLYCHAETA</b>					3,313	4
<b>ARTHROPODA CRUSTACEA</b>						
<b>Amphipoda</b>						
Gammariidae						
Caprellidae						
Cirripedia						
(nauplius, cypris)						
Cladocera						
Evadne nordmanni						
Evadne spinifera						
Penilia avirostris						
Podon polypnemoides						
Copepoda calanoida						
(nauplius, copepodite)						
Acartiidae						
Acartia californiensis	6,056	11,902	2,421	3,970	408,817	596
Acartia clausi				27		
Acartia danae						
Acartia negligens						
Acartia tonsa	255	638	162	136	662	
Acartia spp. *						
Calanidae						
Calanus pacificus						
Calanus tenuicornis						
Calanus spp.						
Calocalanidae						
Calocalanus pavo						
Calocalanus styliremis						
Ischnocalanus temis						
Megacyclops clausi						
Centropagidae						
Centropages bradyi						
Eucalanidae						
Eucalanus bungii						
Eucalanus crassus						
Eucalanus spp.						
Rhinocalanus nasutus						

\*Acartia tonsa + A. californiensis.

January-June 1979

## PLANKTON DATA

	Jan	Feb	Mar	Apr	May	Jun
ARTHROPODA CRUSTACEA (cont.)						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flavicornis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>	139	864	52	286		
Pontellidae						
<i>Labidocera jollae</i>						
<i>Labidocera trispinosa</i>						
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pengens</i>						
<i>Ctenocalanus</i> spp.						
<i>Ctenocalanus varus</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Temoridae						
<i>Temora discaudata</i>						
Tortanidae						
<i>Tortanus discandatus</i>						
Copepoda caligoida						
Copepoda cyclopoida						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus</i> spp.						
<i>Farranula curta</i>						

PLANKTON DATA

January-June 1979

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## PLANKTON DATA

January-June 1979

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STATION MDR-6

	Jan	Feb	Mar	Apr	May	Jun
<b>CHAETOGNATH</b>					54	
<b>CHORDATA</b>						
Ascidacea (larvae)						
Larvacea				109		76
Thaliacea						4
<b>Vertebrata</b>						
Osteichthys (eggs larvae)						
	38		10			
<b>CTENOPHORA</b>						
<b>ECHINODERMATA</b>						
Echinoidae (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
<b>MOLLUSCA</b>						
Gastropoda (veliger)						
Pteropoda						
Pelecyypoda (veliger)					5	
<b>NEMATODA</b>						
<b>PLATYHELMINTHES</b>						
Trematoda (cercaria)						
<b>PHORONIDA</b> (actinotroch)						

	July-December 1978					STATION MDR-7		
	Jul	Aug	Sep	Oct	Nov	Dec		
ANNELIDA POLYCHAETA								
ARTHROPODA CRUSTACEA								
Amphipoda								
Gammaridae								
Caprellidae								
Cirripedia								
( <i>nauplius, cypris</i> )								
Cladocera								
<i>Eudanê norðmanni</i>								
<i>Eudanê spinifera</i>								
<i>Penilia avirostris</i>								
<i>Podon polyphemoides</i>								
Copepoda calanoida								
( <i>nauplius, copepodite</i> )								
Acartiidae								
<i>Acartia californiensis</i>	6,786	2,971	258	11	1,042	38		
<i>Acartia clausi</i>	7							
<i>Acartia danae</i>								
<i>Acartia negligens</i>								
<i>Acartia tonsa</i>								
<i>Acartia spp.*</i>	7							
Calanidae								
<i>Calanus pacificus</i>								
<i>Calanus tenuicornis</i>								
<i>Calanus spp.</i>								
Calocalanidae								
<i>Calocalanus pavo</i>								
<i>Calocalanus stylifer</i>								
<i>Ischnocalanus tenuis</i>								
<i>Mesynocera clausi</i>								
Centropagidae								
<i>Centropages bradyi</i>								
Eucalanidae								
<i>Eucalanus bungi</i>								
<i>Eucalanus crassus</i>								
<i>Eucalanus spp.</i>								
Rhinocalanidae								
<i>Rhinocalanus nasutus</i>								

\**Acartia tonsa* + *A. californiensis*.

PLANKTON DATA	July-December 1978					STATION MDR-7					
	Jul	Aug	Sep	Oct	Nov	Dec	Jul	Aug	Sep	Oct	Nov
<b>ARTHROPODA CRUSTACEA (cont.)</b>											
Copepoda calanoida (cont..)											
Lucicutiidae											
<i>Lucicutia flavidicornis</i>											
Paracalanidae											
<i>Paracalanus parvus</i>							1				
Pontellidae											
<i>Labidocera jollae</i>											
<i>Labidocera trispinosa</i>							2				
Pseudocalanidae											
<i>Clausocalanus arcuicornis</i>											
<i>Clausocalanus farrani</i>											
<i>Clausocalanus furcatus</i>											
<i>Clausocalanus jobei</i>											
<i>Clausocalanus lividus</i>											
<i>Clausocalanus mastigophorus</i>											
<i>Clausocalanus parapergens</i>											
<i>Clausocalanus paululus</i>											
<i>Clausocalanus pergens</i>											
<i>Clausocalanus</i> spp.											
Ctenocalanus varius											
Pseudocyclopidae											
<i>Pseudocyclops bilobatus</i>											
Pseudodiaptomidae											
<i>Pseudodiaptoms euryhalinus</i>											
Temoridae											
<i>Temora discaudata</i>											
Tortaniidae											
<i>Tortanus discudatus</i>											
Copepoda caligoida											
Copepoda cyclopoida											
Corycaidae											
<i>Corycaeus amazonicus</i>											
<i>Corycaeus anglicus</i>											
<i>Corycaeus flaccus</i>											
<i>Corycaeus furcifer</i>											
<i>Corycaeus giesbrechti</i>											
<i>Corycaeus</i> spp.											
Tritanula curta											

July-December 1978

PLANKTON DATA	Jul	Aug	Sep	Oct	Nov	Dec	STATION MDR-7
<b>ARTHROPODA CRUSTACEA (cont.)</b>							
Copepoda cyclopoida (cont.)							
Oithoniidae							
<i>Oithona oculata</i>							
<i>Oithona plumifera</i>							
<i>Oithona similis</i>							
<i>Oithona spinirostris</i>							
<i>Oithona</i> sp.							
Oncaeidae							
<i>Oncaea dentipes</i>							
<i>Oncaea media</i>							
<i>Oncaea mediterranea</i>							
<i>Oncaea similis</i>							
<i>Oncaea venusta</i>							
<i>Oncaea</i> sp.	2						
Copepoda-harpacticoida							
Ectinosomidae							
<i>Microsetella norvegica</i>							
Tachididae							
<i>Euterpnina acutifrons</i>							
Cumacea							
Decapoda							
Anomura (zoea)							
Anomura-porcellanidae (zoea)							
Brachyura (zoea, megalopa)							
Caridea (zoea)							
Macrura (zoea)							
Penaeida (zoea)							
Euphausiaceae (calyptosis)							
Isopoda							
Mysidacea							
Ostracoda							
Pycnogonida							
BRACHIOPODA (larvae)							
BRYOZOA (cyphonautes)							
CNIDARIA							
Hydrozoa (medusae)							
Siphonophora							

July-December 1978

## PLANKTON DATA

	Jul	Aug	Sep	Oct	Nov	Dec
CHAETOGNATH						
CHORDATA						
Asciaciacea (larvae)	15	91	22	16	19	
Larvacea						
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)	5	1				
Ctenophora						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda						
Pelecyopoda (veliger)						
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

January-June 1979

## PLANKTON DATA

	Jan	Feb	Mar	Apr	May	Jun
<b>ANNELIDA POLYCHAETA</b>						
<b>ARTHROPODA CRUSTACEA</b>						
Amphipoda						
Gammaridae						
Caprellidae						
Cirripedia						
( <i>nauplius, cypris</i> )						
Cladocera						
<i>Euaedae nordmanni</i>	6					
<i>Euaedae spinifera</i>	161					
<i>Penilia antirostris</i>						
<i>Podon polypnemoides</i>						
Copepoda calanoida						
( <i>nauplius, copepodite</i> )						
Acartiidae						
<i>Acartia californiensis</i>	61,711	28,723	3,183	92,087		
<i>Acartia clausi</i>			6	934		
<i>Acartia danae</i>						
<i>Acartia negligens</i>						
<i>Acartia tonsa</i>	483		6	534		
<i>Acartia</i> spp.*						
Calanidae						
<i>Calanus pacificus</i>						
<i>Calanus tenuicornis</i>						
<i>Calanus</i> spp.						
Calocalanidae						
<i>Calocalanus pavo</i>						
<i>Calocalanus styliferensis</i>						
<i>Ischnocalanus tenuis</i>						
<i>Mecynocera clausi</i>						
Centropagidae						
<i>Centropages bradyi</i>						
Eucalanidae						
<i>Eucalanus bungi</i>						
<i>Eucalanus crassus</i>						
<i>Eucalanus</i> spp.						
<i>Rhincalanus nasutus</i>						

\**Acartia tonsa* + *A. oaliforniensis*.

## PLANKTON DATA

January-June 1979

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STATION MDR-7

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flavigaster</i>						
Paracalanidae						
<i>Paracalanus parvus</i>	1,448	211	12	133		
Pontellidae						
<i>Lobidocera jollae</i>						
<i>Lobidocera trispinosa</i>	80					
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farmani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus fergens</i>						
<i>Clausocalanus</i> spp.						
<i>Ctenocalanus vanus</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Temoridae						
<i>Temora discudata</i>						
Tortaniidae						
<i>Tortania discudatus</i>						
Copepoda caligoida						
Copepoda cyclopoida						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus</i> spp.						
<i>Parranula curta</i>						

## PLANKTON DATA

January-June 1979

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**AETHROPODA CRUSTACEA (cont.)**  
**Copepoda cyclopoida (cont.)**

ARTHROPODA CRUSTACEA (cont.)			
Copepoda cyclopoida (cont.)			
Oithoniidae			
<i>Oithona oculata</i>			
<i>Oithona plumifera</i>			
<i>Oithona similis</i>			
<i>Oithona spinirostris</i>			
<i>Oithona</i> sp.			
Oncaeidae			
<i>Oncaea dentipes</i>			
<i>Oncaea media</i>			
<i>Oncaea mediterranea</i>			
<i>Oncaea similis</i>			
<i>Oncaea venusta</i>			
<i>Oncaea</i> sp.			
Copepoda-harpacticoida			
Ectinosomidae			
<i>Microsetella norvegica</i>			
Tachididae			
<i>Euterpina acutifrons</i>			
Cumacea			
Decapoda			
Anomura (zoea)			
Anomura-porcellanidae (zoea)			
Brachyura (zoea, megalopa)			
Caridea (zoea)			
Macrura (zoea)			
Penaeida (zoea)			
Euphausiacea (calyptosis)			
Isopoda			
Mysidacea			
Ostracoda			
Pycnogonida			
BRACHIOPODA (larvae)			
BRYOZOA (cyphonautes)			
CNIDARIA			
Hydrozoa (medusae)			
Siphonochoora			

## PLANKTON DATA

January-June 1979

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STATION MDR-7

	Jan	Feb	Mar	Apr	May	Jun
CHAETOGNATH	80					
CHORDATA						
Ascidia (larvae)						4
Larvacea						
Thaliacea						
Vertebrata	161					
Osteichthys (eggs larvae)						
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						6
Pteropoda						
Pelecyopoda (veliger)						
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

PLANKTON DATA	July-December 1978				STATION MDR-8	
	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA	6	3	3	2		
ARTHROPODA CRUSTACEA						
Amphipoda					1	
Gammaridae						
Caprellidae						
Cirripedia	6				2	
(nauplius, cypris)						
Cladocera						
Eudiaptomus nordmanni			1			
Evadne spinifera						
Penilia avirostris						
Podon polyphemoides	125	3	3	2		
Copepoda calanoida						
(nauplius, copepodite)						
Acartiidae						
Acartia californiensis	10,028	14	2,564		366	10,614
Acartia clausi						6,753
Acartia dance						
Acartia negligens					6	
Acartia tonsa					162	
Acartia spp.*						11
Calanidae						
Calanus racemiculus						
Calanus temt'cornif						
Calanus spp.						
Calocalanidae						
Calocalanus pavo						
Calocalanus styliferous						
Ischnocalanus tenuis						
Mecynocera clausi						
Centropagidae						
Centropages bradyi						
Eucalanidae						
Eucalanus bungi						
Eucalanus crassus						
Eucalanus spp.						
Rhincalanus nasutus						

\*Acartia tonsa + A. californiensis.

## PLANKTON DATA

July-December 1978

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STATION MDR-8

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flavidicornis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>						
Pontellidae						
<i>Labidocera trispinosa</i>						
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapengens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Ctenocalanus spp.</i>						
<i>Ctenocalanus varus</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Temoridae						
<i>Temora discaudata</i>						
Tortoniidae						
<i>Tortanus disscutatus</i>						
Copepoda caligoida						
<i>Copepoda cyclopoida</i>						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus spp.</i>						
<i>Farranula curta</i>						

## PLANKTON DATA

July-December 1978

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STATION MDR-8

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithoniidae						
<i>Oithona oculata</i>						9
<i>Oithona plumifera</i>						
<i>Oithona similis</i>						
<i>Oithona spinirostris</i>						
<i>Oithona sp.</i>						
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncacea sp.</i>						
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>						4
Tachidiidae						
<i>Euterpina acutifrons</i>						
Cumacea						
Decapoda						
<i>Anomura (zoea)</i>						
<i>Anomura-porcellanidae (zoea)</i>						
<i>Brachyura (zoea, megalopa)</i>						
<i>Caridea (zoea)</i>						
<i>Macrura (zoea)</i>						
<i>Penaeida (zoea)</i>						
<i>Euphausiacea (calyptopsis)</i>						
Isopoda						
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)						
CNIDARIA						
Hydrozoa (medusae)						
Siphonophora						
						45

July-December 1978

## PLANKTON DATA

	Jul	Aug	Sep	Oct	Nov	Dec
CHAETOGNATH		1		1		9
CHORDATA						
Asciidae (larvae)	31	51	132	94	90	
Larvacea		2		2	2	
Thaliacea				1		
Vertebrata						
Osteichthys (eggs larvae)	1	11		2		9
CTENOPHORA						
ECHINODEMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda						
Pelecypoda (veliger)						
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

## PLANKTON DATA

January-June 1979

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STATION MDR-8

	Jan	Feb	Mar	Apr	May	Jun
<b>ANELLIDA POLYCHAETA</b>						
<b>ARTHROPODA CRUSTACEA</b>						
Amphipoda						
Gammaridae						
Caprellidae						
Cirripedia						
(nauplius, cypris)						
Cladocera	36					
Eudane nordmanni						
Eudane spinifera	36					
Penilia avirostris						
Podon polyphemoides	32					
Copepoda calanoida						
(nauplius, copepodite)						
Acartiidae						
Acartia californiensis	7,756					
Acartia clausi		5,953				
Acartia danae			7,424			
Acartia negligens				31,791		
Acartia tonsa					74,318	
Acartia spp. *						5,120
Calanidae						
Calanus pacificus						
Calanus tenicornis						
Calanus spp.						
Calocalanidae						
Calocalanus pavo						
Calocalanus styliremis						
Ischnocalanus tenuis						
Mecynocera clausi						
Centropagidae						
Centropages bradyi						
Eucalanidae						
Eucalanus bungi						
Eucalanus crassus						
Eucalanus spp.						
Rhinocalanus nasutus						

\* *Acartia tonsa* + *A. californiensis*.

## PLANKTON DATA January-June 1979

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flavicornis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>	219	125	64	88		
Pontellidae						
<i>Labidocera jollae</i>						
<i>Labidocera trispinosa</i>	18					
Pseudocalanidae						
<i>Clausocalanus arcticornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus</i> spp.						
<i>Ctenocalanus vanus</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalimus</i>						
Tenoridae						
<i>Temora discodata</i>						
Tortanidae						
<i>Tortanus discaudatus</i>						
Copepoda caligoida						
Copepoda cyclopoida						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>	35					
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus</i> spp.						
<i>Farronula curta</i>						

## PLANKTON DATA

January-June 1979

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STATION MDR-8

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithoniidae						
<i>Oithona oculata</i>						122
<i>Oithona plumifera</i>						
<i>Oithona similis</i>						32
<i>Oithona spinirostris</i>						
<i>Oithona sp.</i>						12
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncaea sp.</i>						
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpnina acutifrons</i>						
Cumacea						
Decapoda						
Anomura (zoea)						
Anomura-porcellanidae (zoea)						
<i>Brachyura</i> (zoea, megalopa)						
Caridea (zoea)						
<i>Macrura</i> (zoea)						
Penaeida (zoea)						
Euphausiaceae (calyptosis)						
Isopoda						
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)						
CNIDARIA						
Hydrozoa (medusae)						
Siphonophora						

## PLANKTON DATA

January-June 1979

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STATION MDR-6

	Jan	Feb	Mar	Apr	May	Jun
CHAETOGNATH						
CHORDATA						
Ascidacea (larvae)						
Larvacea						
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)						
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropod? (veliger)						
Pteropoda						
Pelecyopoda (veliger)						
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

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PLANKTON DATA	July-December 1978				STATION MDR-9			
	Jul	Aug	Sep	Oct	Nov	Dec		
ANNELIDA POLYCHAETA	2	14						2
ARTHROPODA CRUSTACEA								
Amphipoda								
Gammaridae	7	3	1		1		2	
Caprellidae								
Cirripedia (nauplius, cypris)	56				5			1
Cladocera								
Eucypris virens								
Eudine nordmanni	3							1
Eudine spinifera								
Penilia avirostris								32
Rodon polyphemoides	46	3	1					2
Copepoda calanoida (nauplius, copepodite)	10							2
Acartiidae								
Acartia californiensis	706	999	62					52
Acartia clausi								
Acartia danae								
Acartia negligens								
Acartia tonsa								
Acartia spp.*								
Calanidae								
Calanus pacificus								
Calanus tenuicornis								
Calanus spp.								
Calocalanidae								
Calocalanus pavo								
Calocalanus styliferus								
Ischnocalanus tenuis								
Mecynocera clausi								
Centropagidae								
Centropages bradyi								
Eucalanidae								
Eucalanus bungi								
Eucalanus crassus								
Eucalanus spp.								
Rhincalanus nasutus								

\*Acartia tonsa + A. californiensis.

## PLANKTON DATA

July-December 1978

	Jul	Aug	Sep	Oct	Nov	Dec	STATION MDR-9
ARTHROPODA CRUSTACEA (cont.)							
Copepoda calanoida (cont.)							
Lucicutiidae							
<i>Lucicutia flavicornis</i>							
Paracalanidae							
<i>Paracalanus parvus</i>							
Pontellidae							
<i>Labidocera jollae</i>							
<i>Labidocera trispinosa</i>							
Pseudocalanidae							
<i>Clausocalanus arcicornis</i>							
<i>Clausocalanus farrani</i>							
<i>Clausocalanus furcatus</i>							
<i>Clausocalanus joberi</i>							
<i>Clausocalanus lividus</i>							
<i>Clausocalanus mastigophorus</i>							
<i>Clausocalanus parapergens</i>							
<i>Clausocalanus paululus</i>							
<i>Clausocalanus pergens</i>							
<i>Clausocalanus spp.</i>							
<i>Ctenocalanus vanus</i>							
Pseudocyclopidae							
<i>Pseudocyclops bilobatus</i>							
Pseudodiaptomidae							
<i>Pseudodiaptomus erythralinus</i>							
Temoridae							
<i>Temora discaudata</i>							
Tortoniidae							
<i>Tortorius discaudatus</i>							
Copepoda caligoidea							
Copepoda cyclopoida							
Corycaeidae							
<i>Corycaeus amazonicus</i>							
<i>Corycaeus anglicus</i>							
<i>Corycaeus flaccus</i>							
<i>Corycaeus furcifer</i>							
<i>Corycaeus giesbrechti</i>							
<i>Corycaeus spp.</i>							
<i>Parranula curta</i>							

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## PLANKTON DATA

July-December 1978

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STATION MDR-9

	Jul	Aug	Sep	Oct	Nov	Dec
<b>ANTHOPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithoniidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>						
<i>Oithona similis</i>						
<i>Oithona spinirostris</i>						
<i>Oithona</i> sp.						
Oncidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncaea</i> sp.	34		1			
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
Euterpina acutifrons						
Cumacea						
Decapoda						
Anomura (zoea)	2					
<i>Anomura-porcellanidae</i> (zoea)						
<i>Brachyura</i> (zoea, megalopa)	2	8				
<i>Caridea</i> (zoea)		2				
<i>Macrura</i> (zoea)			1			
<i>Penaeida</i> (zoea)				3		
<i>Euphausiacea</i> (calyptysis)					57	
Isopoda	2					
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)					2	
CNIDARIA						
Hydrozoa (medusae)	5					
Siphonophora						2

July-December 1978

## PLANKTON DATA

	Jul	Aug	Sep	Oct	Nov	Dec
CHAETOGNATH				3		17
CHORDATA						
Asciidae (larvae)	64	84	26	50		34
Larvacea	2	3		1		
Thaliacea						1
Vertebrata						
Osteichthys (eggs larvae)	7			3	4	1
CTENOPHORA						
ECHINODERMATA				2		
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda						
Pelecyopoda (veliger)						
NEMATODA			2			
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

## PLANKTON DATA January-June 1979

## STATION MDR-9

	Jan	Feb	Mar	Apr	May	Jun
<b>ANNELIDA POLYCHAETA</b>						
<b>ARTHROPODA CRUSTACEA</b>						
<b>Amphipoda</b>						
Gammaridae						
Caprellidae						
Cirripedia						
(nauplius, cypris)						
Cladocera						
Eucadre nordmanni						
Eucadre spinifera						
Penilia avirostris						
Podon polyphemoides						
Copepoda calanoida						
(nauplius, copepodite)						
Acartiidae						
Acartia californiensis	98,507	51,569		5,675	119,243	
Acartia clausi						
Acartia danae						
Acartia negligens						
Acartia tonsa						
Acartia spp. *						
Calanidae						
Calanus pacificus						
Calanus tenuicornis						
Calanus spp.						
Calocalanidae						
Calocalanus pavo						
Calocalanus styliferemis						
Ischnocalanus termis						
Mecynocera clausi						
Centropagidae						
Centropages bradyi						
Eucalanidae						
Eucalanus bungi						

## PLANKTON DATA

January-June 1979

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STATION MDR-9

	Jan	Feb	Mar	Apr	May	Jun
ARTHROPODA CRUSTACEA (cont.)						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flavigomis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>	212	116	19			
Pontellidae						
<i>Labidocera jollae</i>						
<i>Labidocera trispinosa</i>	116					
pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus spp.</i>						
<i>Ctenocalanus varus</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Tremoridae						
<i>Tremora discundata</i>						
Tortaniidae						
<i>Tortamus discundatus</i>						
Copepoda cyclopoida						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus spp.</i>						
Farranula curta						

	Jan	Feb	Mar	Apr	May	Jun	
<b>ARTHROPODA CRUSTACEA (cont.)</b>							
Copepoda cyclopoida (cont.)							
Oithonidae							
<i>Oithona oculata</i>							
<i>Oithona plumifera</i>							
<i>Oithona similis</i>							
<i>Oithona spinirostris</i>							
<i>Oithona sp.</i>							
Oncaeidae							
<i>Oncaea dentipes</i>							
<i>Oncaea media</i>							
<i>Oncaea mediterranea</i>							
<i>Oncaea similis</i>							
<i>Oncaea venusta</i>							
<i>Oncaeus sp.</i>							
Copepoda-harpacticoida							
Ectinomidae							
<i>Microsetella norvegica</i>							
Tachidiidae							
Euterpina acutifrons							
Cumacea							
Decapoda							
Anomura (zoea)							
Anomura-porcellanidae (zoea)							
Brachyura (zoea, megalopa)							
Caridea (zoea)							
Macrura (zoea)							
Penaeida (zoea)							
Euphausiaceae (calyptosis)							
Isopoda							
Mysidacea							
Ostracoda							
Pycnogonida							
BRACHIOPODA (larvae)							
BRYOZOA (cyphonautes)							
CNIDARIA							
Hydrozoa (medusae)							
Siphonophora							

## PLANKTON DATA

January-June 1979

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STATION MDR-9

	Jan	Feb	Mar	Apr	May	Jun
CHAETOGNATH						
CHORDATA	106					
Asciidae (larvae)						
Larvacea						
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)	9					
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda						
Pelecypoda (veliger)						
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

PLANKTON DATA	July-December 1978					STATION MDR-10		
	Jul	Aug	Sep	Oct	Nov	Dec		
ANNELIDA POLYCHAETA	2	8		19		23		
ARTHROPODA CRUSTACEA								
Amphipoda								
Gammaridae								
Caprellidae								
Cirripedia	1							
(nauplius, cypris)								
Cladocera								
Eudane normmanni								
Evadne spinifera								
Penilia avirostris								
Podon polypnoides								
Copepoda calanoida								
(nauplius, copepodite)								
Acartiidae								
Acartia californiensis	984							
Acartia clausi								
Acartia danae								
Acartia negligens								
Acartia tonsa								
Acartia spp. *								
Calanidae								
Calanus pacificus								
Calanus tenuicornis								
Calanus spp.								
Calocalanidae								
Calocalanus pavo								
Calocalanus styliremis								
Technocalanus tenuis								
Mecynocera clausi								
Centropagidae								
Centropages bradyi								
Eucalanidae								
Eucalanus bungi								
Eucalanus orassus								
Eucalanus spp.								
Rhinocalanus nasutus								

\*Acartia tonsa + A. californiensis.

## PLANKTON DATA

July-December 1978

	Jul	Aug	Sep	Oct	Nov	Dec	STATION MDR-10
<b>ARTHROPODA CRUSTACEA (cont.)</b>							
Copepoda calanoida (cont.)							
Lucicutiidae							
<i>Lucicutia flavigomis</i>							
Paracalanidae							
<i>Paracalanus parvus</i>							
Pontellidae							
<i>Labidocera jollae</i>							
<i>Labidocera trispinosa</i>							
Pseudocalanidae							
<i>Clausocalanus arcuicornis</i>							
<i>Clausocalanus farrani</i>							
<i>Clausocalanus furcatus</i>							
<i>Clausocalanus jobei</i>							
<i>Clausocalanus lividus</i>							
<i>Clausocalanus mastigophorus</i>							
<i>Clausocalanus parapergens</i>							
<i>Clausocalanus paululus</i>							
<i>Clausocalanus pergens</i>							
<i>Clausocalanus spp.</i>							
<i>Ctenocalanus vanus</i>							
Pseudocyclopidae							
<i>Pseudocycelops bilobatus</i>							
Pseudodiaptomidae							
<i>Pseudodiaptomus euryhalimus</i>							
Temoridae							
<i>Temora discudata</i>							
Tortoniidae							
<i>Tortanus discudatus</i>							
Copepoda caligoida							
<i>Copepoda cyclopoida</i>							
Corycaeidae							
<i>Corycaeus amazonicus</i>							
<i>Corycaeus anglicus</i>							
<i>Corycaeus flaccus</i>							
<i>Corycaeus furcifer</i>							
<i>Corycaeus giesbrechti</i>							
<i>Corycaeus spp.</i>							
Parmonidae							
<i>Parmonula curta</i>							

PLANKTON DATA	July-December 1978				STATION MDR-10	
	Jul	Aug	Sep	Oct.	Nov	Dec
<b>ARTHROPODA CRUSTACEA (Cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithoniidae						
<i>Oithona oculata</i>	1					
<i>Oithona pumifera</i>						
<i>Oithona similis</i>	1					
<i>Oithona spinirostris</i>						
<i>Oithona</i> sp.						
Oncidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncaea</i> sp.						
Copepoda-harpacticoida	1		1			
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
Euterpina acutifrons						
Cumacea						
Decapoda						
Anomura (zoaea)						
<i>Anomura-porcellanidae</i> (zoaea)						
<i>Brachyura</i> (zoaea, megalopa)	2		1		1	
<i>Caridea</i> (zoaea)	2		1		1	
<i>Macrura</i> (zoaea)	2		1		1	
<i>Penaeida</i> (zoaea)						
<i>Euphausiacea</i> (calyptopsis)						
Isopoda						
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)						
Cnidaria						
Hydrozoa (medusae)						
Siphonophora						

## PLANKTON DATA

July-December 1978

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STATION MDR-10

	Jul	Aug	Sep	Oct	Nov	Dec
CHAETOGNATH			1			9
CHORDATA						
Asciidae (larvae)	176		64	132	55	
Larvacea	2					5
Thaliacea		11				
Vertebrata						
Osteichthys (eggs larvae)	1		3	2		14
CRENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda						
Pelecypoda (veliger)						
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

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## PLANKTON DATA

January-June 1979

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STATION MDR-10

	Jan	Feb	Mar	Apr	May	Jun
<b>ANNELIDA POLYCHAETA</b>						
<b>ARTHROPODA CRUSTACEA</b>						
Amphipoda						
Gammaridae						
Caprellidae						
Cirripedia						
(nauplius, cypris)						
Cladocera						
<i>Eudine nordmanni</i>						
<i>Eudine spinifera</i>						
<i>Penilia avirostris</i>						
<i>Podon polypnemoides</i>						
Copepoda calanoida (nauplius; copepodite)						
Acartiidae						
<i>Acartia californiensis</i>	22, 962	25, 380	3, 907	18, 494	55, 918	824
<i>Acartia clausi</i>			7			
<i>Acartia danae</i>						
<i>Acartia negligens</i>						
<i>Acartia tonsa</i>	194					
<i>Acartia</i> spp. *						
Calanidae						
<i>Calanus pacificus</i>						
<i>Calanus tenuicornis</i>						
<i>Calanus</i> spp.						
Calocalanidae						
<i>Calocalanus pavo</i>						
<i>Calocalanus styliremis</i>						
<i>Ischmonalanus tenuis</i>						
<i>Mecynocera clausi</i>						
Centropagidae						
<i>Centropages bradyi</i>						
Eucalanidae						
<i>Eucalanus bungi</i>						
<i>Eucalanus crassus</i>						
<i>Eucalanus</i> spp.						
Rhincalanus nasutus						

\**Acartia tonsa* + *A. californiensis*.

## PLANKTON DATA

January-June 1979

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STATION MDR-10

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flaviicornis</i>						
Paracalanidae						
<i>Paracalanus parvus</i>	155	46	28			
Pontellidae						
<i>Labidocera jollae</i>						
<i>Labidocera trispinosa</i>						
Pseudocalanidae						
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus spp.</i>						
<i>Ctenocalanus varus</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Temoridae						
<i>Temora disscutata</i>						
Tortaniidae						
<i>Tortamus dissimilatus</i>						
Copepoda caligoida						
Copepoda cyclopoida						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>						
<i>Corycaeus furcifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus spp.</i>						
<i>Farrula curta</i>						
						7
						46
						39

## PLANKTON DATA

January-June 1979

Page 3 of 4

STATION MDR-10

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont.)						
Oithonidae						
<i>Oithona oculata</i>						
<i>Oithona pumifera</i>	39					
<i>Oithona similis</i>	46					
<i>Oithona spinirostris</i>						
<i>Oithona sp.</i>						
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncaea sp.</i>						
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Euterpina acutifrons</i>						
Cumacea						
Decapoda						
Anomura (zoea)						
<i>Anomura-porcellanidae (zoea)</i>						
<i>Brachyura (zoea, megalopa)</i>	39		228		14	
Caridea (zoea)						
<i>Macrura (zoea)</i>						
Penaeida (zoea)						
<i>Euphausiacea (calyptosis)</i>	39		137		38	
Isopoda						
Mysidaceae						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)						
CILIARIA						
Hydrozoa (medusae)						
Siphonophora						

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## PLANKTON DATA

January-June 1979

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STATION MDR-10

	Jan	Feb	Mar	Apr	May	Jun
CHAETOGNATH						
CHORDATA	46					
Ascidacea (larvae)						
Larvacea						
Thaliacea						
Vertebrata	39					
Osteichthys (eggs larvae)						
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda						
Pelecypoda (veliger)						
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

PLANKTON DATA		July-December 1978				STATION MDR-11			
		Jul	Aug	Sep	Oct	Nov	Dec		
ANNELIDA POLYCHAETA		1	3	9	2	7	1		
ARTHROPODA CRUSTACEA									
Amphipoda									
Gammaridae	1	1	2						
Caprellidae									
Cirripedia	3	10	1	2	3				
(nauplius, cypris)									
Cladocera									
Eudine nordmanni	2	1							
Evadne spinifera									
Penilia avirostris									
Podon polyphemoides	26	2	11						
Copepoda calanoida	1		2						
(nauplius, copepodite)									
Acartiidae									
Acartia californiensis	249	570	162	109	1,072	167			
Acartia clausi									
Acartia danae									
Acartia negligens									
Acartia tonsa				1	8	2			
Acartia spp. *									
Calanidae									
Calanus pacificus									
Calanus temminckii									
Calanus spp.									
Calocalanidae									
Calocalanus pavo									
Calocalanus styliremis									
Ischnocalanus tenuis									
Mecynocera clausi									
Centropagidae									
Centropages bradyi									
Eucalanidae									
Eucalanus bungi									
Eucalanus ornatissus									
Eucalanus spp.									
Rhinocalanus nasutus									

\*Acartia tonsa + A. californiensis.

PLANKTON DATA	July-December 1978					STATION MDR-11	
	Jul	Aug	Sep	Oct	Nov	Dec	
<b>ARTHROPODA CRUSTACEA (cont.)</b>							
Copepoda calanoida (cont.)							
Lucicutiidae							
<i>Lucicutia flavicornis</i>							
Paracalanidae							
<i>Paracalanus parvus</i>	2	1	2	1	1	4	
Pontellidae							
<i>Labidocera jollaee</i>							
Labidoceridae trispinosa							
Pseudocalanidae							
<i>Clausocalanus arcuicornis</i>							
<i>Clausocalanus farrani</i>							
<i>Clausocalanus furcatus</i>							
<i>Clausocalanus jobei</i>							
<i>Clausocalanus lividus</i>							
<i>Clausocalanus mastigophorus</i>							
<i>Clausocalanus parapergens</i>							
<i>Clausocalanus paululus</i>							
<i>Clausocalanus pergens</i>							
<i>Clausocalanus</i> spp.							
<i>Ctenocalanus vanus</i>							
Pseudocyclopidae							
<i>Pseudocyclops bilobatus</i>							
Pseudodiaptomidae							
<i>Pseudodiaptomus euryhalinus</i>							
Temoridae							
<i>Temora discaudata</i>							
Tortoniidae							
<i>Tortanus discundatus</i>							
Copepoda caligoida							
Copepoda cyclopoida							
Corycaeidae							
<i>Corycaeus amazonicus</i>							
<i>Corycaeus anglicus</i>	1	1	1	2	2	5	19
<i>Corycaeus flaccus</i>							
<i>Corycaeus furcifer</i>							
<i>Corycaeus giesbrechti</i>							
<i>Corycaeus</i> spp.							
<i>Farrania curta</i>							

## PLANKTON DATA STATION MDR-11

	July-December 1978				
	Jul	Aug	Sep	Oct	Nov
					Dec
<b>ARTHROPODA CRUSTACEA (cont.)</b>					
Copepoda cyclopoids (cont.)					
Oithonidae					
<i>Oithona oculata</i>					
<i>Oithona plumifera</i>					
<i>Oithona similis</i>		1			
<i>Oithona spinirostris</i>					
<i>Oithona</i> sp.					
Oncidae					
<i>Oncæa dentipes</i>					
<i>Oncæa media</i>					
<i>Oncæa mediterranea</i>					
<i>Oncæa similis</i>					
<i>Oncæa vernata</i>				1	
<i>Oncæa</i> sp.					
Copepoda-harpacticoida	1		1	1	
Ectinosomidae					
<i>Microsetella norvegica</i>					
Tachidiliidae					
<i>Euterpina acutifrons</i>					
Cunacea					
Decapoda					
<i>Anomura</i> (zoea)					
<i>Anomura-porcellanidae</i> (zoea)					
<i>Brachyura</i> (zoea, megalopa)					
<i>Caridea</i> (zoea)	1		1		
<i>Macrura</i> (zoea)	4				
<i>Penaeida</i> (zoea)					
<i>Euphausiacea</i> (calyptopsis)					
Isopoda					
Mysidacea					
Ostracoda					
Fycnogonida					
BRACHIOPODA (larvae)					
BRYOZOA (cyphonautes)					
CNIDARIA	1				
Hydrozoa (medusæ)					
Siphonophora	1				

## PLANKTON DATA

July-December 1978

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STATION MDR-11

	Jul	Aug	Sep	Oct	Nov	Dec
CHAETOGNATHI			1	1	10	
CHORDATA						
Ascidacea (larvae)	78	102	21	50	22	1
Larvacea						
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)	1	1	4			1
CTENOPHORA						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda						
Pelecypoda (veliger)						
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

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## PLANKTON DATA

January-June 1979

Page 1 of 4

STATION MDR-11

	Jan	Feb	Mar	Apr	May	Jun
ANNELIDA POLYCHAETA						
ARTHROPODA CRUSTACEA						
Amphipoda						
Gammaridae						
Caprellidae						
Cirripedia						
(nauplius, cypris)						
Cladocera						
<i>Eudadne nordmanni</i>						
<i>Eudadne spinifera</i>						
<i>Penilia avirostris</i>						
<i>Podon polyphemoides</i>						
Copepoda calanoida						
(nauplius, copepodite)						
Acartiidae						
<i>Acartia californiensis</i>	21,747	7,257	14,192	50,295	94,150	8,906
<i>Acartia clausi</i>				190		15
<i>Acartia danie</i>						
<i>Acartia negligens</i>						
<i>Acartia tonsa</i>	179	18	28	63	1,063	
<i>Acartia</i> spp. *						
Calanidae						
<i>Calanus pacificus</i>						
<i>Calanus tenuicornis</i>						
<i>Calanus</i> spp.						
Calocalanidae						
<i>Calocalanus pavo</i>						
<i>Calocalanus styliferme</i>						
<i>Ischocolanus tenuis</i>						
<i>Mecynocera clausi</i>						
Centropagidae						
<i>Centropages bradyi</i>						
Eucalanidae						
<i>Eucalanus bungi</i>						
<i>Eucalanus crassus</i>						
<i>Eucalanus</i> spp.						
<i>Rhincalanus nasutus</i>						

\**Acartia tonsa* + *A. californiensis*.

## PLANKTON DATA

January-June 1979

Page 2 of 4

STATION MDR-11

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda calanoida (cont.)						
Lucicutiidae						
<i>Lucicutia flavidornis</i>						
paracalanidae						
<i>Paracalanus parvus</i>	752	126	56			
Pontellidae						
<i>Labidocera trispinosa</i>						
Pseudocalanidae	36					
<i>Clausocalanus arcuicornis</i>						
<i>Clausocalanus farrani</i>						
<i>Clausocalanus furcatus</i>						
<i>Clausocalanus jobei</i>						
<i>Clausocalanus lividus</i>						
<i>Clausocalanus mastigophorus</i>						
<i>Clausocalanus parapergens</i>						
<i>Clausocalanus paululus</i>						
<i>Clausocalanus pergens</i>						
<i>Clausocalanus spp.</i>						
<i>Ctenocalanus utrus</i>						
Pseudocyclopidae						
<i>Pseudocyclops bilobatus</i>						
Pseudodiaptomidae						
<i>Pseudodiaptomus euryhalinus</i>						
Temoridae						
<i>Temora discaudata</i>						
Tortaniidae						
<i>Tortanus discaudatus</i>						
Copepoda caligoida						
Copepoda cyclopoida						
Corycaeidae						
<i>Corycaeus amazonicus</i>						
<i>Corycaeus anglicus</i>						
<i>Corycaeus flaccus</i>						
<i>Corycaeus funifer</i>						
<i>Corycaeus giesbrechti</i>						
<i>Corycaeus spp.</i>						
<i>Farranula curta</i>						
					18	

## PLANKTON DATA

January-June 1979

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STATION MDR-11

	Jan	Feb	Mar	Apr	May	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Copepoda cyclopoida (cont..)						
Oithonidae						
<i>Oithona oculata</i>						
<i>Oithona plumifera</i>						
<i>Oithona similis</i>						
<i>Oithona spinirostris</i>						
<i>Oithona</i> sp.						
Oncaeidae						
<i>Oncaea dentipes</i>						
<i>Oncaea media</i>						
<i>Oncaea mediterranea</i>						
<i>Oncaea similis</i>						
<i>Oncaea venusta</i>						
<i>Oncaea</i> sp.						
Copepoda-harpacticoida						
Ectinosomidae						
<i>Microsetella norvegica</i>						
Tachidiidae						
<i>Enterpina acutifrons</i>						
Cumacea						
Decapoda						
Anomura (zoea)						
Anomura-porcellanidae (zoea)						
Brachyura (zoea, megalopa)						
Caridea (zoea)						
Macrura (zoea)						
Penaeida (zoea)						
Euphausiacea (calyptopsis)						
Isopoda						
Mysidacea						
Ostracoda						
Pycnogonida						
BRACHIOPODA (larvae)						
BRYOZOA (cyphonautes)						
CNIDARIA						
Hydrozoa (medusae)						
Siphonophora						

## PLANKTON DATA

January-June 1979

Page 4 of 4  
STATION MDR-11

	Jan	Feb	Mar	Apr	May	Jun
CHAETOGNATHI						
CHORDATA						
Ascidiaeae (larvae)						
Larvacea						
Thaliacea						
Vertebrata						
Osteichthys (eggs larvae)						
Ctenophora						
ECHINODERMATA						
Echinoidea (echinopluteus)						
Holothuroidea (auricularia)						
Ophiuroidea (ophiopluteus)						
MOLLUSCA						
Gastropoda (veliger)						
Pteropoda						
Pelecypoda (veliger)						
NEMATODA						
PLATYHELMINTHES						
Trematoda (cercaria)						
PHORONIDA (actinotroch)						

BENTHIC

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## HARBORS ENVIRONMENTAL PROJECTS

## BENTHIC DATA

## STATION MDR 1

	28 Oct 1976	17 Mar 1977	23 Jun 1977	16 Sep 1977	28 Dec 1977
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## ANNELIDA

OLIGOCHAETA, unid.

80

460

## Tubificidae

*Peloscolex gabriellae*

310

1910

1330

## POLYCHAETA

## Ampharetidae

*Ampharete labrops*

10

60

20

30

*Amphicteis scaphobranchiata**Melinna oculata*

## Arabellidae, unid. (juv.)

## Capitellidae

*Capitella capitata*

2980

8540

230

10590

20

*Mediomastus acutus**Mediomastus californiensis*

70

2720

550

70

240

*(=Capitita ambiseta)**Notomastus tenuis*

20

## Chaetopteridae, unid. (frag.)

*Spiochaetopterus costarum*

10

## Chrysopetalidae

*Chrysopetalum occidentale**Paleanotus bellis*

## Cirratulidae, unid.

*Caulieriella alata**Caulieriella bioculata**Caulieriella hamata**Caulieriella sp. (juv.)*

10

10

*Chaetozone corona**Chaetozone setosa**Chaetozone sp.**Cirratulus cirratus**Cirriformia luxuriosa**Cirriformia sp (juv.)**Tharyx nr. tessellata**Tharyx spp.*

10

10

## Cossuridae

*Cossura candida**Cossura pygodactylata*

## Ctenodrilidae

*Ctenodrilus serratus*

## Dorvilleidae, unid.

*Ophryotrocha puerilis**Protodorvillea gracilis**Schistomerengos longicornis*

50

110

20

## Flabelligeridae, unid.

*Pherusa capulata**Pherusa sp.*

## Glyceridae

*Glycera americana**Glycera capitata*

20

110

10

*Glycera convoluta**Glycera rouxii**Glycera sp. (juv.)*

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HARBORS ENVIRONMENTAL PROJECTS  
BENTHIC DATA

STATION MDR 1

	28 Oct 1976	17 Mar 1977	23 Jun 1977	16 Sep 1977	28 Dec 1977
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<b>POLYCHAETA (cont.)</b>					
Goniadidae, unid. (juv.)					10
<i>Glycinde armigera</i>					
<i>Goniada brunnea</i>	10			20	
<i>Goniada littorea</i>					
<i>Goniada sp. (juv.)</i>					
Hesionidae, unid.					10
<i>Hesionidae, new genus</i>					
<i>Gyptis brevipalpa</i>					
<i>Gyptis brunnea</i>				10	
<i>Ophiodromus pugettensis</i>	10				
Lumbrineridae, unid.					
<i>Lumbrineris ?crassidentata</i>					
<i>Lumbrineris erecta</i>					
<i>Lumbrineris ?tetaura</i>	10				
<i>Lumbrineris spp.</i>	30	20			10
Magelonidae					
<i>Magelona sacculata</i>					
Maldanidae, unid. (frag.)					
<i>Asychis sp.</i>					
<i>Axiothella sp. (frag.)</i>	10				
<i>Praxillella affinis pacifica</i>					
<i>Praxillella sp.</i>					
Nephtyidae, unid. (juv.)	10				
<i>Nephtys caecoides</i>		20			
<i>Nephtys californiensis</i>			20		40
<i>Nephtys cornuta franciscana</i>				10	
<i>Nephtys ferruginea</i>					
Nereidae, unid. (juv.)	40				
<i>Neanthes arenaceodentata</i>					
<i>Nereis latescens</i>			30		20
<i>Nereis procera</i>		10			10
<i>Nereis sp. (juv.)</i>					
<i>?Perinereis monterea</i>					
<i>Platynereis bicanaliculata</i>	50	60			
Onopidae, unid. (juv.)					
<i>Diopatra ornata</i>		10	10		
<i>Diopatra splendidissima</i>	20				10
<i>Diopatra sp. (juv.)</i>	20			10	
Opheliidae					
<i>Armandia bioculata</i>	200	320	390	980	230
<i>Polyopthalamus pictus</i>	20				
Orbiniidae					
<i>Haploscoloplos elongatus</i>					
<i>Naineris dendritica</i>					
<i>Scoloplos acmeceps</i>					
Oweniidae					
<i>Owenia collaris</i>					
Paraonidae					
<i>Acesta catherinae</i>					
<i>Acesta horikoshii</i>					
<i>Paraonella platybranchia</i>					
( <i>=Paraonides platybranchia</i> )					

HARBORS ENVIRONMENTAL PROJECTS  
BENTHIC DATA

	28 Oct 1976	17 Mar 1977	23 Jun 1977	16 Sep 1977	28 Dec 1977
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STATION MDR 1

<b>POLYCHAETA (cont.)</b>					
<b>Pectinariidae</b>					
<i>Pectinaria californiensis</i> (= <i>P. c. newportensis</i> )		50			70
<b>Phyllodocidae, unid.</b>					
<i>Anaitides nr. papillosa</i>					
<i>Anaitides sp. (juv.)</i>					
<i>Eteone californica</i>					
<i>Eteone dilatae</i>	10		10		
<i>Eteone sp.</i>					
<i>Eulalia aviculifera</i>					10
<i>Eulalia ?myriacyclum</i>					
<i>Eulalia quadrioculata</i>					
<i>Eulalia sp. (juv.)</i>					
<i>Eumida bifoliata</i>	10		10		
<i>Eumida sanguinea</i>				10	20
? <i>Genetyllis castanea</i>					10
<i>Hesionura coineau i difficultis</i>					
<i>Phyllodocae sp.</i>	30		30		190
<b>Pilargidae</b>					
<i>Ancistrosyllis hamata</i>					
<i>Sigambra tentaculata</i>					
<b>Polynoidae, unid. (frag.)</b>					
<i>Halosydna johnsoni</i>					
<i>Halosydna sp.</i>					
<i>Harmothoe ?crassicirrata</i>					
<i>Harmothoe hirsuta</i>					
<i>Harmothoe imbricata</i>					
<i>Harmothoe priops</i>	10			10	
<i>Harmothoe scriptoria</i>					
<i>Harmothoe sp.</i>					
<i>Lepidonotus ?squamatus</i>					
<b>Sabellariidae</b>					
<i>Sabellaria cementarium</i>					
<b>Sabellidae, unid.</b>					
<i>Chone ecaudata</i>					
<i>Chone sp.</i>					
<i>Euchone limnicola</i>					
<i>Megalomma pigmentum</i>					
<i>Myxicola ?infundibulum</i>					
? <i>Potamilla sp.</i>					
<b>Serpulidae</b>					
<i>Eupomatus gracilis</i>					
<i>Hydroides pacifica</i>					10
<b>Sigalionidae</b>					
<i>Pholoe glabra</i>					
<i>Stenelais verruculosa</i>					
<b>Spionidae, unid.</b>					
<i>Boccardia sp.</i>					
<i>Boccardiella hamata</i>					
(= <i>Boccardia hamata</i> )					
<i>Loanice cirrata</i>					

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## POLYCHAETA (cont.)

## Spionidae, unid. (cont.)

<i>Paraprionospio pinnata</i>	50	110	20	10	70
<i>Polydora ligni</i>	10	110	10	30	30
<i>Polydora socialis</i>	10				
<i>Polydora</i> sp.					
<i>Prionospio cirrifera</i>	10	10		40	20
<i>Prionospio heterobranchia</i> (= <i>P. h. newportensis</i> )	90	100	30	10	20
<i>Prionospio pygmaeus</i>	10	20			70
<i>Prionospio</i> sp.					
<i>Pseudopolydora paucibranchiata</i>	70				
<i>Rhynchospio ?arenicola</i>					
<i>Rhynchospio</i> sp.					10
<i>Scolelepis acuta</i> (= <i>Nerinides acuta</i> )					20
<i>Spiro ?filicornis</i>					
<i>Spiro maculata</i> (= <i>Nerinides maculata</i> )					
<i>Spiophanes missionensis</i>	30	120	20		10
<i>Streblospio benedicti</i>					

## Spirorbidae

<i>Janua brasiliensis</i>					
<i>Pileolaria pseudomilitaris</i>					
<b>Syllidae, unid.</b>					20
<i>Autolytus</i> sp.					
<i>Brania</i> sp.					
<i>Exogone gemmifera</i>		10			
<i>Exogone lourei</i>					
<i>Exogone verugera</i>					
<i>Erogone</i> sp.					
<i>Odontosyllis phosphorea</i>					
<i>Sphaerosyllis californiensis</i>					
<i>Sphaerosyllis</i> sp.					
? <i>Syllis</i> sp.					
<i>Typosyllis ?hyalina</i>					
<i>Typosyllis</i> sp.					20

## Terebellidae, unid.

<i>Amaeana occidentalis</i>					
<i>Pista fasciata</i>					
<i>Pista ?disjuncta</i>					
<i>Pista</i> sp. (juv.)					
<i>Streblosoma crassibranchia</i>					

## ARTHROPODA--CRUSTACEA

## Amphipoda

<i>Caprellidea, unid.</i>	10	300	90		
<i>Gammaridea, unid.</i>		130	230	160	30

## Copepoda

<i>Calanoida, unid.</i>					
<i>Cyclopoida, unid.</i>					
<i>Clausidium vancouverense</i>					

*Harpacticoida, unid.*

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## ARTHROPODA CRUSTACEA (cont.)

Cumacea, unid.		20			20
<i>Cyclaspis</i> sp.					
<i>Diastylys</i> sp.				60	
<i>Diastylopsis tenuis</i>		330	410		20
<i>Oxyurostylus pacifica</i>	10	750	70	220	70
Decapoda					
Decapod zoea larvae	10		10		
Anomura					
Paguridae					
<i>Pagurus</i> sp.					
Brachyura					
Canceridae					
<i>Cancer anthonyi</i> (juv.)	10		210		
<i>Cancer gracilis</i>					
<i>Cancer</i> sp. (juv.)		30			
Grapsidae					
<i>Hemigrapsus oregonensis</i>	10				
<i>Hemigrapsus</i> sp. (juv.)					
Majidae					
<i>Pyromaita tuberculata</i>					
Pinnotheridae, unid.					
<i>Opisthopus transversus</i>					
<i>Pinnixa franciscana</i>					
<i>Pinnixa</i> sp.			10		
<i>Scleroplax granulata</i>					
Caridea					
Alpheidae, unid.					
<i>Alpheus californiensis</i>					
<i>Alpheus equidactylus</i>					
<i>Betaeus</i> sp. (frag.)					
Palaemonidae					
<i>Palaemonella holmesi</i>					
Macrura					
Callianassidea					
<i>Callianassa</i> sp.					
<i>Upogebia</i> sp.					
Isopoda, unid.				20	
<i>Edotea</i> sp.	10				
<i>Limnoria</i> sp.					
<i>Munna</i> sp.				10	
Mysidacea, unid.					
Nebaliacea, unid.					
Ostracoda, unid.					
<i>Cylindroleberis</i> , sp.					10
<i>Philomedes</i> sp.					
<i>Rutiderma rostrata</i>					
Tanaidacea, unid.					
<i>Anatanais normani</i>					
<i>Leptochelia</i> sp.					
Thoracica					
<i>Balanus pacificus</i>					

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## ARTHROPODA CRUSTACEA (cont.)

## Decapoda (cont.)

## Thoracica (cont.)

*Balanus tintinnabulum californicus**Balanus trigonus**Balanus* sp.

## ARTHROPODA--INSECTA

## Chironomidae, larvae

20

*Paraclunio alaskensis* (larvae)

## ARTHROPODA--PYCNOGONIDA

<i>Anoplodactylus erectus</i>	570	30	30	80
-------------------------------	-----	----	----	----

*Callipallene californiensis**Pallenidae*, unid.

90

*Tantystylum intermedium*

## ASCHELMINTHES

## Nematoda, unid.

12000

800	15870	4010
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## BRACHIOPODA

*Glottidia albida*

## BRYOZOA (=ECTOPROCTA)

*Bowerbankia grisealis**Bugula neritina**Celleporaria brunnea**Cryptosula pallasiana**Schizoporella unicornis**Watersipora arcuata**Zoobotryon verticillatum*

## CHORDATA

## Cephalochordata

*Branchiostoma californiense*

## Osteichthys

## Gobiesocidae

*Gobiesox rhessodon*

## Gobiidae, unid.

## Gobiidae, larvae

*Clevelandiaios**Ilypnus gilberti**Lepidogobius lepidus*

## Urochordata

## Ascidacea, unid.

*Botryllus* sp.*Ciona intestinalis**Mogula pugetiensis**Styela clava**Styela plicata*

## CNIDARIA (=COELENTERATA)

## Anthozoa

## Actinaria, unid.

*Diadumene* sp.*Edwardsia californica**Edwardsia* nr. *sipunculoides**Edwardsia* sp. (juv.)

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<b>CNIDARIA (Cont.)</b>					
Anthozoa					
Actinaria, unid.					
<i>Edwardsiidae</i> , unid.					
<i>Mesacmaea</i> sp. A					
Ceriantharia, unid.					
Hydrozoa--Hydroidea					
<i>Aglaophenia diversidentata</i>					
<i>Aglaophenia</i> nr. <i>pluma</i>					
<i>Corymorphia aurata</i>					
<b>ECHINODERMATA</b>					
Echinoidea, unid. (juv.)					
<i>Strongylocentrotus purpuratus</i>					
Holothuroidea, unid.					
Ophiuroidea, unid. (juv.)				20	
<b>ECHURA</b>					
<i>Urechis caupo</i>					
<b>HEMICHORDATA</b>					
<i>Enteropneusta</i> , unid.					
<b>MOLLUSCA--Gastropoda</b> , unid. (juv.)					
Gastropoda--Ophistobranchia					10
Cephalaspidea, unid.					
<i>Acteocina harpa</i>					
<i>Acteocina inculta</i>					
<i>Aglaja</i> sp.	20				
<i>Bulla gouldiana</i>					
<i>Rictaxis punctocaulatus</i>					
<i>Sulcoretusa</i> sp.					
<i>Woodbridgea</i> sp.					
Nudibranchia, unid.					
<i>Acanthodoris</i> sp.					
<i>Trinchesia</i> sp.					
Pyramidellida					
<i>Odostomia</i> sp.					
Gastropoda--Prosobranchia					
Mesogastropoda					
Caecidae					
<i>Caecum</i> sp.					
<i>Partulum</i> sp.					
<i>?Micranellium</i> sp.					
Calypteridae					
<i>Crepidula dorsata</i>					
(= <i>Crepidipatella lingulata</i> )					
<i>Crepidula onyx</i>					
<i>Crepidula perforans</i>					
<i>Crepidula</i> sp. (juv.)				10	
Lamellariidae					
<i>Lamellaria sharonae</i>					
Naticidae					
<i>Neverita reclusiana</i>	10			10	
<i>Sinum</i> sp.					
Vitrinellidae					
<i>Vitrinella oldroydi</i>					

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## MOLLUSCA (cont.)

## Gastropoda--Prosobranchia (cont.)

## Neogastropoda

## Columbellidae

*Mitrella carinata**Mitrella sp. (juv.)*

10

10

10

## Muricidae

*Pteropurpura festiva*

## Nassariidae

*Nassarius mendicus (juv.)*

30

*Nassarius perpinguis*

10

*Nassarius sp.*

## Olividae

*Olivella baetica*

10

10

310

130

20

## Turridae

*Kurtziella plumbea*

## Pelecypoda, unid. (juv.)

20

30

10

40

## Cardiidae

*Laevicardium substriatum*

20

20

## Cooperellidae

*Cooperella subdiaphana*

90

10

10

## Donacidae

*Donax gouldii*

## Erycinidae

*Lasaea subviridis*

10

10

## Hiatellidae

*Hiatella arctica*

## Leptonidae

*"Lepton meroeum"*

10

## Lucinidae

*Parvilucina tenuisculpta**(=Parvilucina sp.)*

## Lyonsiidae

*Lyonsia californica*

## Mactridae, unid. (juv.)

*Mactra californica*

20

50

*Mactra sp.**Spisula catilliformis**Spisula sp.*

10

10

*Tresus nuttalli*

## Montacutidae

*Orobitella sp.**Mysella pedroana**Mysella sp.*

20

## Myidae

*Cryptomya californica*

## Mytilidae, unid. (juv.)

*Amygdalum sp.*

10

*Modiolus sp.**Mytilus edulis*

## Ostreidae

*Ostrea lurida*

## Pectinidae

*Leptopecten latiauratus*

10

40

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## MOLLUSCA (cont.)

## Pelecypoda (cont.)

## Petricolidae

*Petricola tellimyalis*  
*Petricola* sp.

## Semelidae

*Cumingia californica*  
*Theora lubrica*

## Solecurtidae

*Tagelus subteres*

20

10

10

## Solenidae

*Ensis myrae*  
*Siliqua lucida*  
*Solen* sp. (juv.)

## Tellinidae

*Leporimetis obesa*  
*Macoma acolasta*

*Macoma carlottensis*

*Macoma nasuta*

30

10

*Macoma* sp. (juv.)

10

20

10

*Tellina modesta*

360

70

20

60

70

*Tellina* sp. (juv.)

80

10

20

10

140

## Thyasiridae

*Acinopisida serriocata*  
*Thyasira flexuosa*

## Veneridae

*Chione undatella*

*Chione* sp. (juv.)

*Protothaca staminea*

*Protothaca* sp. (juv.)

30

50

20

*Saxidomus nuttalli*

*Saxidomus* sp. (juv.)

40

*Polyplacophora*, unid.

NEMERTEA, unid.

30

40

30

10

70

PHORONIDA, unid.

*Phoronis pallida*

*Phoronis* sp.

*Phoronopsis* sp.

PLATYHELMINTHES

*Polycladida*, unid.

10

PROTOZOA

Foraminifera

"Rosalina-like" forams

SIPUNCULIDA, unid.

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<b>ANNELIDA</b>					
OLIGOCHAETA, unid.	530	2770	1890	4220	2190
Tubificidae					
<i>Peloscolex gabriellae</i>	220	40			420
POLYCHAETA					
Ampharetidae					
<i>Ampharete labrops</i>					
<i>Amphicteis scaphobranchiata</i>					
<i>Melinna oculata</i>					
Arabellidae, unid. (juv.)					
Capitellidae					
<i>Capitella capitata</i>	5130	11720	1880	15790	580
<i>Mediomastus acutus</i>					
<i>Mediomastus californiensis</i>	300	570	610	500	2940
(= <i>Capitita ambiseta</i> )					
<i>Notomastus tenuis</i>	100	60	210	100	70
Chaetopteridae, unid. (frag.)					
<i>Spiochaetopterus costarum</i>					
Chrysopetalidae					
<i>Chrysopetalum occidentale</i>					
<i>Paleanotus bellis</i>					
Cirratulidae, unid.					
<i>Caulieriella alata</i>					
<i>Caulieriella bioculata</i>					
<i>Caulieriella hamata</i>					
<i>Caulieriella sp.</i>					
<i>Chaetozone corona</i>					
<i>Chaetozone setosa</i>					
<i>Chaetozone sp.</i>					
<i>Cirratulus cirratus</i>					
<i>Cirriformia luxuriosa</i>					
<i>Cirriformia sp (juv.)</i>					
<i>Tharyx nr. tessellata</i>					
<i>Tharyx spp.</i>					
Cossuridae					
<i>Cossura candida</i>					
<i>Cossura pygodactylata</i>					
Ctenodrilidae					
<i>Ctenodrilus serratus</i>					
Dorvilleidae, unid.					
<i>Ophryotrocha puerilis</i>					
<i>Protodorvillea gracilis</i>					
<i>Schistomerings longicornis</i>	210	30	30	1210	880
Flabelligeridae, unid.					
<i>Pherusa capulata</i>					
<i>Pherusa sp.</i>					
Glyceridae					
<i>Glycera americana</i>			70		
<i>Glycera capitata</i>		100			
<i>Glycera convoluta</i>					
<i>Glycera rouxi</i>					10
<i>Glycera sp. (juv.)</i>					

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## POLYCHAETA (cont.)

*Goniadidae*, unid. (juv.)

*Glycinde armigera*

*Goniada brunnea*

*Goniada littorea*

*Goniada sp.*

*Hesionidae*, unid.

*Hesionidae*, new genus

*Gyptis brevipalpa*

*Gyptis brunnea*

*Ophiodromus pugettensis*

*Lumbrineridae*, unid.

*Lumbrineris ?crassidentata*

*Lumbrineris erecta*

*Lumbrineris ?tetaura*

*Lumbrineris spp.*

220

30

10

*Magelonidae*

*Magelona sacculata*

*Maldanidae*, unid. (frag.)

*Asychis sp.*

*Axiothella sp.*

*Praxillella affinis pacifica*

*Praxillella sp.*

*Nephtyidae*, unid.

*Nephtys caecoides*

*Nephtys californiensis*

*Nephtys cornuta franciscana*

*Nephtys ferruginea*

20

*Nereidae*, unid. (juv.)

*Neanthes arenaceodentata*

40

60

80

*Nereis latescens*

*Nereis procura*

20

30

10

*Nereis sp.* (juv.)

?*Perinereis monterea*

*Platynereis bicanaliculata*

*Onuphidae*, unid. (juv.)

*Diopatra ornata*

*Diopatra splendidissima*

10

10

*Diopatra sp.* (juv.)

*Opheliidae*

*Armandia bioculata*

20

350

640

30

860

*Polyopthalmus pictus*

20

*Orbiniidae*

*Haploscoloplos elongatus*

*Naineris dendritica*

*Scoloplos acmeceps*

*Oweniidae*

*Owenia collaris*

*Paraonidae*

*Acesta catherinae*

*Acesta horikoshii*

*Paraonella platybranchia*

(=Paraonides platybranchia)

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## POLYCHAETA (cont.)

## Pectinariidae

*Pectinaria californiensis*  
(=*P. c. newportensis*)

30 10

## Phyllodocidae, unid.

*Anaitides nr. pcpillosa*

20

*Anaitides sp. (juv.)**Eteone californica**Eteone dilatae**Eteone sp.**Eulalia aviculifera**Eulalia ?myriacyclum**Eulalia quadrioculata**Eulalia sp. (juv.)**Eumida bifoliata*

10 20

*Eumida sanguinea*

20

*?Genetyllis castanea**Hesionura coineaui difficilis**Phyllocoelus sp.*

20 50

60

## Pilargidae

*Ancistrosyllis hamata**Sigambra tentaculata*

## Polynoidae, unid. (frag.)

*Halosydna johnsoni**Halosydna sp.**Harmothoe ?crassicirrata**Harmothoe hirsuta**Harmothoe imbricata**Harmothoe priops*

10 10

*Harmothoe scriptoria**Harmothoe sp.**Lepidonotus ?squamatus*

## Sabellariidae

*Sabellaria cementarium*

## Sabellidae, unid.

*Chone ecaudata**Chone sp.**Euchone limnicola**Megalomma pigmentum**Myxicola ?infundibulum**?Potamilla sp.*

10

## Serpulidae

*Eupomatus gracilis**Hydrodoides pacifica*

## Sigalionidae

*Pholos glabra**Stenelais verruculosa*

## Spionidae, unid.

*Boccardia sp.**Boccardiella hamata*(=*Boccardia hamata*)*Loanice cirrata*

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<b>POLYCHAETA (cont.)</b>					
<i>Spionidae, unid. (cont.)</i>					
<i>Parapriionospio pinnata</i>	70	60	10	40	90
<i>Polydora ligni</i>	20	10	60	20	
<i>Polydora socialis</i>					
<i>Polydora sp.</i>					
<i>Prionospio cirrifera</i>	220	50	120	70	220
<i>Prionospio heterobranchia</i> (=P.h. newportensis)	120	20	120	80	110
<i>Prionospio pygmaeus</i>	10				
<i>Prionospio sp.</i>					
<i>Pseudopolydora paucibranchiata</i>		30	50	120	10
<i>Rhynchospio ?arenicola</i>					
<i>Rhynchospio sp.</i>					
<i>Scolelepis acuta</i> (=Nerinides acuta)					
<i>Spio ?filicornis</i>					
<i>Spio maculata</i> (=Nerinides maculata)					
<i>Spiophanes missionensis</i>		40	10		
<i>Streblospio benedicti</i>					50
<i>Spirorbidae</i>					
<i>Janua brasiliensis</i>					
<i>Pileolaria pseudomilitaris</i>					
<i>Syllidae, unid.</i>					
<i>Autolytus sp.</i>					
<i>Brania sp.</i>					
<i>Exogone gemmifera</i>					
<i>Exogone lourei</i>					
<i>Exogone verugera</i>					
<i>Exogone sp.</i>					
<i>Odontosyllis phosphorea</i>					
<i>Sphaerosyllis californiensis</i>					
<i>Sphaerosyllis sp.</i>					
<i>?Syllis sp.</i>					
<i>Typosyllis ?hyalina</i>					
<i>Typosyllis sp.</i>					
<i>Terebellidae, unid.</i>					
<i>Amaeana occidentalis</i>					
<i>Pista fasciata</i>					
<i>Pista ?disjuncta</i>					
<i>Pista sp. (juv.)</i>					
<i>Streblosoma crasseibranchia</i>					
<b>ARTHROPODA--CRUSTACEA</b>					
<i>Amphipoda</i>					
<i>Caprellidea, unid.</i>		30	200	200	
<i>Gammaridea, unid.</i>	10	40	50	200	
<i>Copepoda</i>					
<i>Calanoida, unid.</i>			10		
<i>Cyclopoida, unid.</i>	30	30			
<i>Clausidium vancouverense</i>				10	
<i>Harpacticoida, unid.</i>			160		220

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## ARTHROPODA CRUSTACEA (cont.)

Cumacea, unid.					
<i>Cyclaspis</i> sp.					
<i>Diastylis</i> sp.					
<i>Diastylopsis tenuis</i>	10		190		
<i>Oxyurostylus pacifica</i>	80	630	1580	210	70
Decapoda					
Decapod zoea larvae					
Anomura					
<i>Paguridae</i>					
<i>Pagurus</i> sp.					
Brachyura					
<i>Canceridae</i>					
<i>Cancer anthonyi</i>			10		
<i>Cancer gracilis</i>					
<i>Cancer</i> sp. (juv.)				20	
<i>Grapsidae</i>					
<i>Hemigrapsus oregonensis</i>					
<i>Hemigrapsus</i> sp. (juv.)					
<i>Majidae</i>					
<i>Pyromania tuberculata</i>					
<i>Pinnotheridae</i> , unid.	10				10
<i>Opisthopus transversus</i>					
<i>Pinnixa franciscana</i>					
<i>Pinnixa</i> sp.			40		
<i>Scleroplax granulata</i>					30
<i>Caridea</i>					
<i>Alpheidae</i> , unid.					
<i>Alpheus californiensis</i>					
<i>Alpheus equidactylus</i>					
<i>Betaeus</i> sp. (frag.)					
<i>Palaemonidae</i>					
<i>Palaemonella holmesi</i>					
<i>Macrura</i>					
<i>Callianassidea</i>					
<i>Callianassa</i> sp.		10		20	
<i>Upogebia</i> sp.					
<i>Isopoda</i> , unid.		20		60	
<i>Edotea</i> sp.					
<i>Limnoria</i> sp.					
<i>Munna</i> sp.					
<i>Mysidacea</i> , unid.					
<i>Nebaliacea</i> , unid.				20	
<i>Ostracoda</i> , unid.					
<i>Cylindroleberidinae</i> , unid.					
<i>Philomedes</i> sp.					
<i>Rutiderma rostrata</i>					
<i>Tanaidacea</i> , unid.					
<i>Anatanais normani</i>					
<i>Leptochelia</i> sp.					
<i>Thoracica</i>					
<i>Balanus pacificus</i>					

## HARBORS ENVIRONMENTAL PROJECTS

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## ARTHROPODA CRUSTACEA (cont.)

## Decapoda (cont.)

## Thoracica (cont.)

*Balanus tintinnabulum californicus**Balanus trigonus**Balanus sp.*

80

## ARTHROPODA--INSECTA

## Chironomidae, larvae

*Paraclunio alaskensis* (larvae)

## ARTHROPODA--PYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis**Pallenidae, unid.**Tantystylum intermedium*

## ASCHELMINTHES

## Nematoda, unid.

250

49290

50000

## BRACIOPODA

*Glottidia albida*

## BRYOZOA (=ECTOPROCTA)

*Bowerbankia gracilis**Bugula neritina**Celleporaria brionneae**Cryptosula pallasiana**Schizoporella unicornis**Watersipora arcuata**Zoobotryon verticillatum*

10

## CHORDATA

## Cephalochordata

*Branchiostoma californiense*

## Osteichthys

## Gobiesocidae

*Gobiesox rhessodon*

## Gobieidae, unid.

## Gobieidae, larvae

*Clevelandia ios**Ilypnus gilberti**Lepidogobius lepidus*

20

## Urochordata

## Ascidacea, unid.

*Botryllus sp.**Ciona intestinalis**Mogula pugetensis**Styela clava**Styela plicata*

## CNIDARIA (=COELENTERATA)

## Anthozoa

## Actinaria, unid.

*Diadumene sp.**Edwardsia californica**Edwardsia nr. sipunculoides**Edwardsia sp. (juv.)*

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## CNIDARIA (Cont.)

## Anthozoa

*Actinaria*, unid.*Edwardsiidae*, *unid.**Mesacmaea* sp. A*Ceriantharia*, unid.

## Hydrozoa--Hydroida

*Aglaophenia diversidentata**Aglaophenia* nr. *pluma**Corymorphia aurata*

## ECHINODERMATA

*Echinoidea*, unid. (juv.)*Strongylocentrotus purpuratus**Holothuroidea*, unid.*Ophiuroidea*, unid. (juv.)

## ECHURA

*Brechis caupo*

## HEMICORDATA

*Enteropneusta*, unid.

## MOLLUSCA--Gastropoda, unid. (juv.)

*Gastropoda*--Ophistobranchia*Cephalaspidea*, unid.*Acteocina harpa**Acteocina inulta**Aglaja* sp.*Bulla gouldiana**Rictaxis punctocaulatus**Sulcoretusa* sp.*Woodbridgea* sp.*Nudibranchia*, unid.*Acanthodoris* sp.*Trinchesia* sp.*Pyramidellida**Odoetomia* sp.

## Gastropoda--Prosobranchia

*Mesogastropoda**Caecidae**Caecum* sp.*Furtulum* sp.*?Micranellium* sp.*Calyptaeidae**Crepidula dorsata**(=Crepidatella lingulata)**Crepidula onyx**Crepidula preforans**Crepidula* sp. (juv.)*Lamellariidae**Lamellaria sharonae**Naticidae**Neverita reclusiana**Sinum* sp.*Vitrinellidae**Vitrinella oldroydi*

## HARBORS ENVIRONMENTAL PROJECTS

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## MOLLUSCA (cont.)

## Gastropoda--Prosobranchia (cont.)

## Neogastropoda

## Columbellidae

*Mitrella carinata*

10

30

*Mitrella sp.*

## Muricidae

*Pteropurpura festiva*

## Nassariidae

*Nassarius mendicus*

10

10

*Nassarius perpinguis**Nassarius sp.*

20

20

## Olividae

*Olivella baetica*

## Turridae

*Kurtziella plumbea*

## Pelecypoda, unid. (juv.)

90

300

20

80

## Cardiidae

*Laevicardium substriatum*

30

40

10

110

160

## Cooperellidae

*Cooperella subdiaphana*

60

30

## Donacidae

*Donax gouldii*

## Erycinidae

*Lasaea subviridis*

## Hiatellidae

*Hiatella arctica*

## Leptonidae

*"Lepton meroeum"*

## Lucinidae

*Parvilucina tenuisculpta**(=Parvilucina sp.)*

## Lyonsiidae

*Lyonsia californica*

## Mactridae, unid. (juv.)

130

180

*Mactra californica**Mactra sp.**Spisula catilliformis**Spisula sp.**Tresus nuttalli*

10

## Montacutidae

*Orobitella sp.**Mysella pedroana*

10

10

10

*Mysella sp.*

## Myidae

*Cryptomya californica*

## Mytilidae, unid. (juv)

10

20

*Amygdalum sp.**Modiolus sp.**Mytilus edulis*

40

30

## Ostreidae

*Ostrea lurida*

## Pectinidae

*Leptopecten latiauratus*

## HARBORS ENVIRONMENTAL PROJECTS

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<b>MOLLUSCA (cont.)</b>					
Pelecypoda (cont.)					
Petricolidae					
<i>Petricola tellimyalis</i>			10		
<i>Petricola sp.</i>					
Semelidae					
<i>Cumingia californica</i>					
<i>Theora lubrica</i>					
Solecurtidae					
<i>Tagelus subteres</i>	20		10		
Solenidae					
<i>Ensis myrae</i>					
<i>Siliqua lucida</i>					
<i>Solen sp. (juv.)</i>			10		
Tellinidae					
<i>Leporimetis obesa</i>					
<i>Macoma acolasta</i>	10				
<i>Macoma carlottensis</i>					
<i>Macoma nasuta</i>	250	10	300	940	
<i>Macoma sp. (juv.)</i>		820	60		30
<i>Tellina modesta</i>	60	30	30	50	10
<i>Tellina sp. (juv.)</i>	20	30			110
Thyasiridae					
<i>Axinopsida serricata</i>					
<i>Thyasira flexuosa</i>					
Veneridae					
<i>Chione undatella</i>					
<i>Chione sp. (juv.)</i>					
<i>Protothaca staminea</i>					
<i>Protothaca sp.</i>	20	90		30	10
<i>Saxidomus nuttalli</i>					
<i>Saxidomus sp. (juv.)</i>		20			10
<i>Polyplacophora, unid.</i>					
NEMERTEA, unid.		140	90	20	10
PHORONIDA, unid.					
<i>Phoronis pallida</i>					
<i>Phoronis sp.</i>					
<i>Phoronopsis sp.</i>					
PLATYHELMINTHES					
<i>Polycladida, unid.</i>					
PROTOZOA					
Foraminifera					
<i>"Rosalina-like" forams</i>					
SIPUNCULIDA, unid.					

HARBORS ENVIRONMENTAL PROJECTS  
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<b>ANNELIDA</b>					
OLIGOCHAETA, unid.					
Tubificidae	200	670	100		40
<i>Peloscolex gabriellae</i>					
POLYCHAETA					
Ampharetidae					
<i>Ampharete labrops</i>		30	40		
<i>Amphicteis scaphobranchiata</i>					
<i>Melinna oculata</i>					
Arabellidae, unid. (juv.)					
Capitellidae					
<i>Capitella capitata</i>	10		70	10	10
<i>Mediomastus acutus</i>					
<i>Mediomastus californiensis</i>	700	740	190		880
(= <i>Capitita ambiseta</i> )					
<i>Notomastus tenuis</i>	530		910		
Chaetopteridae, unid. (frag.)					
<i>Spiochaetopterus costarum</i>					
Chrysopetalidae					
<i>Chrysopetalum occidentale</i>					
<i>Paleanotus bellis</i>					
Cirratulidae, unid.					
<i>Caulieriella alata</i>		20	520		50
<i>Caulieriella bioculata</i>					
<i>Caulieriella hamata</i>	30				
<i>Caulieriella sp.</i>					
<i>Chaetozone corona</i>					
<i>Chaetozone setosa</i>					
<i>Chaetozone sp.</i>		10			
<i>Cirratulus cirratus</i>	90		40		20
<i>Cirriformia luxuriosa</i>		10			50
<i>Cirriformia sp (juv.)</i>					
<i>Tharyx nr. tessellata</i>					
<i>Tharyx spp.</i>	100	20	30		60
Cossuridae					
<i>Cossura candida</i>		10			
<i>Cossura pygodactyla</i>					
Ctenodrilidae					
<i>Ctenodrilus serratus</i>					
Dorvilleidae, unid.					
<i>Ophryotrocha puerilis</i>					
<i>Protodorvillea gracilis</i>			3100		
<i>Schistomerings longicornis</i>	60	200	70		270
Flabelligeridae, unid.					
<i>Pherusa capulata</i>			10		30
<i>Pherusa sp.</i>					
Glyceridae					
<i>Glycera americana</i>	20		10		
<i>Glycera capitata</i>		190	40		
<i>Glycera convoluta</i>					
<i>Glycera rorii</i>	10	20			
<i>Glycera sp. (juv.)</i>					10

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## POLYCHAETA (cont.)

*Goniadidae*, unid. (juv.)*Glycinde armigera**Goniada brunnea**Goniada littorea**Goniada sp.**Hesionidae*, unid.*Hesionidae*, new genus*Gyptis brevipalpa**Gyptis brunnea**Ophiodromus puggettensis**Lumbrineridae*, unid.*Lumbrineris ?crassidentata**Lumbrineris erecta**Lumbrineris ?tetaura**Lumbrineris spp.*

10

10

10

20

50

100

690

100

80

*Magelonidae**Magelona sacculata**Maldanidae*, unid. (frag.)*Asychis sp.**Axiothella sp.**Praxillella affinis pacifica**Praxillella sp.*

90

*Nephtyidae*, unid.*Nephtys caecoides*

10

40

*Nephtys californiensis**Nephtys cornuta franciscana**Nephtys ferruginea*

10

*Nereidae*, unid. (juv.)*Neanthes arenaceodentata*

30

10

*Nereis latescens**Nereis procera**Nereis sp.* (juv.)*?Perinereis monterea*

10

*Platynereis bicanaliculata**Onuphidae*, unid. (juv.)*Diopatra ornata**Diopatra splendidissima**Diopatra sp.* (juv.)

10

40

*Opheliidae**Armandia bioculata*

50

10

170

*Polyopthalmus pictus*

180

30

80

*Orbiniidae**Haploscoloplos elongatus*

60

250

10

*Naineris dendritica**Scoloplos acmeceps**Oweniidae**Owenia collaris**Paraonidae**Acasta catherinae**Acasta horikoshii**Paraonella platybranchia*(*=Paraonides platybranchia*)

## HARBORS ENVIRONMENTAL PROJECTS

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## POLYCHAETA (cont.)

## Pectinariidae

*Pectinaria californiensis*  
(=*P. c. newportensis*)

## Phyllodocidae, unid.

*Anaitides nr. papillosa*

50

*Anaitides sp. (juv.)*

10

*Eteone californica*

*Eteone dilatae*

*Eteone sp.*

10

*Eulalia aviculifera*

*Eulalia ?myriacyclum*

*Eulalia quadrioculata*

10

*Eulalia sp. (juv.)*

10

*Eumida bifoliata*

210

*Eumida sanguinea*

?*Genetyllis castanea*

*Hesionura coineai difficilis*

370

*Phyllodoce sp.*

10

20

## Pilarciidae

*Ancistrosyllis hamata*

*Sigambra tentaculata*

## Polynoidae, unid. (frag.)

*Halosydna johnsoni*

10

10

10

*Halosydna sp.*

*Harmothoe ?crassicirrata*

60

*Harmothoe hirsuta*

10

*Harmothoe imbricata*

*Harmothoe priope*

*Harmothoe scriptoria*

10

*Harmothoe sp.*

10

*Lepidonotus ?squamatus*

## Sabellariidae

*Sabellaria cementarium*

## Sabellidae, unid.

*Chone ecaudata*

30

*Chone sp.*

110

30

30

50

*Euchone limnicola*

*Megalomma pigmentum*

10

*Myxicola ?infundibulum*

?*Potamilla sp.*

30

## Serpulidae

*Eupomatus gracilis*

500

*Hydrorides pacifica*

3330

5000

## Sigalionidae

*Pholoe glabra*

*Stenelais verruculosa*

## Spionidae, unid.

*Boccardia sp.*

*Boccardiella hamata*

20

(=*Boccardia hamata*)

100

*Loanice cirrata*

20

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<b>LYCHAETA (cont.)</b>					
<b>Spionidae, unid. (cont.)</b>					
<i>Paraprionospio pinnata</i>			10		
<i>Polydora ligni</i>	280				
<i>Polydora socialis</i>					
<i>Polydora sp.</i>					
<i>Prionospio cirrijera</i>	100	30			130
<i>Prionospio heterobranchia</i> (=P.h. newportensis)	280	390	130		490
<i>Prionospio pygmaeus</i>		110			
<i>Prionospio sp.</i>					
<i>Pseudopolydora paucibranchiata</i>	140		6550		30
<i>Rhynchospio ?arenicola</i>					
<i>Rhynchospio sp.</i>					
<i>Scolelepis acuta</i> (=Nerinides acuta)					
<i>Spio ?filicornis</i>			170		
<i>Spio maculata</i> (=Nerinides maculata)					
<i>Spiophanes missionensis</i>	20	100	50		
<i>Streblospio benedicti</i>	10		10		
<b>Spirorbidae</b>					
<i>Janua brasiliensis</i>	900			10,000	
<i>Pileolaria pseudomilitaris</i>				2,000	
<b>Syllidae, unid.</b>			70		
<i>Autolytus sp.</i>					
<i>Brania sp.</i>		30	220		
<i>Eusyllis sp.</i>					20
<i>Exogone gemmifera</i>			20		
<i>Exogone lourei</i>					30
<i>Exogone verugera</i>					
<i>Exogone sp.</i>	20				
<i>Odontosyllis phosphorea</i>					
<i>Sphaerosyllis californiensis</i>					
<i>Sphaerosyllis sp.</i>	10				
<i>Syllides sp.</i>					
<i>?Syllis sp.</i>					
<i>Typosyllis ?hyalina</i>					
<i>Typosyllis sp.</i>					
<b>Terebellidae, unid.</b>					
<i>Amaeana occidentalis</i>			40		
<i>Pista fasciata</i>		10			
<i>Pista ?disjuncta</i>	20				150
<i>Pista sp. (juv.)</i>					
<i>Streblosoma crassibranchia</i>					
<b>THROPODA--CRUSTACEA</b>					
<b>Amphipoda</b>					
<i>Caprellidea, unid.</i>			3860	60	
<i>Gammaridea, unid.</i>	700	30	990	4250	90
<b>Copepoda</b>					
<i>Calanoida, unid.</i>					
<i>Cyclopoida, unid.</i>	200		20		70
<i>Clausidium vancouverense</i>					
<i>Harpacticoida, unid.</i>					

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## ARTHROPODA CRUSTACEA (cont.)

Cumacea, unid.			10		
<i>Cyclaspis sp.</i>					
<i>Diastylis sp.</i>					
<i>Diastylopsis tenuis</i>					
<i>Oxyurostylus pacifica</i>		10	190		
Decapoda					
Decapod zoea larvae	20				30
Anomura					
<i>Paguridae</i>					
<i>Pagurus sp.</i>					
Brachyura					
Canceridae					
<i>Cancer anthonyi</i>			40		
<i>Cancer gracilis</i>					
<i>Cancer sp. (juv.)</i>	30				
Grapsidae					
<i>Hemigrapsus oregonensis</i>	40		30		20
<i>Hemigrapsus sp. (juv.)</i>					
Majidae					
<i>Pyromaria tuberculata</i>					
Pinnotheridae, unid.					
<i>Opisthopus transversus</i>					
<i>Pinnixa franciscana</i>					
<i>Pinnixa sp.</i>					
<i>Scleroplax granulata</i>					
Caridea					
Alpheidae, unid.					10
<i>Alpheus californiensis</i>					
<i>Alpheus equidactylus</i>	30				
<i>Betaeus sp. (frag.)</i>					
Palaemonidae					
<i>Palaemonella holmesi</i>					40
Macrura					
Callianassidea					
<i>Callianassa sp.</i>					
<i>Upogebia sp.</i>					
Isopoda, unid.		10		10	50
<i>Edotea sp.</i>					
<i>Limnoria sp.</i>					
<i>Munna sp.</i>					
Mysidacea, unid.			10		
Nebaliacea, unid.					
Ostracoda, unid.					10
<i>Cylindroleberidinae, unid.</i>					
<i>Philomedes sp.</i>					
<i>Rutiderma rostrata</i>					
Tanaidacea, unid.				10	930
<i>Anatanaia normani</i>					150
<i>Leptochelia sp.</i>	580				
Thoracica					
<i>Balanus pacificus</i>	120				

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## ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Thoracica (cont.)

*Balanus tintinnabulum californicus* 210

130 130 40

*Balanus trigonus* 70*Balanus* sp.

## ARTHROPODA--INSECTA

Chironomidae, larvae

*Paraclunio alaskensis* (larvae)

## ARTHROPODA--PYCNOGONIDA

130

*Anoplodactylus erectus**Callipallene californiensis*

Pallenidae, unid.

*Tantystylum intermedium*

## ASCHELMINTHES

Nematoda, unid.

950

## BRACHIOPODA

*Glottidia albida*

## BRYOZOA (=ECTOPROCTA)

*Bowerbankia gracilis*

+

7 col

2 col.

*Bugula neritina*

+

*Bugula stolonifera*

+

(*Bugula californica*)

+

*Celleporaria brunnea*

+

21 col

*Cryptosula pallasiana*

+

12 col

*Schizoporella unicornis*

+

11 col

*Watersipora arcuata*

+

11 col

*Zoobotryon verticillatum*

## CHORDATA

Cephalochordata

*Branchiostoma californiense*

40

Osteichthys

Gobiesocidae

*Gobiesox rhessodon*

20

Gobieidae, unid.

Gobieidae, larvae

*Clevelandia ios**Ilypnus gilberti**Lepidogobius lepidus*

Urochordata

80

Ascidacea, unid.

*Botryllus* sp.

50

50

*Ciona intestinalis**Mogula pugetensis**Styela clava*

20

50

*Styela plicata*

20

80

## CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria, unid.

*Diadumene* sp.*Edwardsia californica**Edwardsia nr. spongicola**Edwardsia* sp. (juv.)

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## CNIDARIA (Cont.)

## Anthozoa

*Actinaria*, unid.*Edwardsiidae*, unid.*Mesacmaea sp. A**Ceriantharia*, unid.

## Hydrozoa--Hydroida

*Aglaophenia diversidentata**Aglaophenia nr. pluma**Corymorpha aurata*

10

## ECHINODERMATA

*Echinoidea*, unid. (juv.)*Strongylocentrotus purpuratus**Holothuroidea*, unid.*Ophiuroidea*, unid. (juv.)

30

90

## ECHURA

*Urechis caupo*

## HEMICHORDATA

*Enteropneusta*, unid.

## MOLLUSCA --Gastropoda, unid. (juv.)

Gastropoda--Ophistobranchia

*Cephalaspidea*, unid.*Acteocina harpa**Acteocina inculta*

40

*Aglaja sp.**Bulla gouldiana**Rictaxis punctocaulatus**Sulcoretusa sp.**Woodbridgea sp.**Nudibranchia*, unid.*Acanthodoris sp.*

20

*Trinchesia sp.**Pyramidellida**Odostomia sp.*

Gastropoda--Prosobranchia

*Mesogastropoda**Caecidae**Caecum sp.**Furtulum sp.**?Micranellium sp.**Calyptraeidae**Crepidula dorsata*

910

60

60

*(=Crepidatella lingulata)**Crepidula onyx*

4630

30

80

10

320

*Crepidula preferans*

60

10

*Crepidula sp. (juv.)**Lamellariidae**Lamellaria sharonae*

10

*Naticidae**Neverita reclusiana**Sinum sp.*

10

*Vitrinellidae**Vitrinella oldroydi*

## HARBORS ENVIRONMENTAL PROJECTS

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## MOLLUSCA (cont.)

## Gastropoda--Prosobranchia (cont.)

## Neogastropoda

## Columbellidae

*Mitrella carinata*

40

20

*Mitrella sp.*

30

20

## Muricidae

*Pteropurpura festiva*

40

## Nassariidae

*Nassarius mendicus**Nassarius perpinguis**Nassarius sp.*

## Olividae

*Olivella baetica*

## Pyramidellidae

*Turbanilla sp.*

## Turridae

*Kurtziella plumbea*

## Pelecypoda, unid. (juv.)

20

40

330

## Cardiidae

*Laevicardium substriatum*

40

10

10

## Cooperellidae

*Cooperella subdiaphana*

## Donacidae

*Donax gouldii*

## Erycinidae

*Lasaea subviridis*

## Hiatellidae

*Hiatella arctica*

## Leptonidae

*"Lepton meroeum"*

110

70

## Lucinidae

*Parvilucina tenuisculpta**(=Parvilucina sp.)*

## Lyonsiidae

*Lyonsia californica*

## Mactridae, unid. (juv.)

10

*Mactra californica**Mactra sp.**Spisula catilliformis**Spisula sp.**Tresus nuttalli*

## Montacutidae

*Orobitella sp.*

80

*Mysella pedroana*

40

10

*Mysella sp.*

## Myidae

*Cryptomya californica*

80

## Mytilidae, unid. (juv.)

*Amygdalum sp.**Modiolus sp.**Mytilus edulis*

230

10

80

## Ostreidae

*Ostrea lurida*

20

## Pectinidae

*Leptopecten latiauratus*

## HARBORS ENVIRONMENTAL PROJECTS

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## BENTHIC DATA

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## MOLLUSCA (cont.)

## Pelecypoda (cont.)

## Petricolidae

*Petricola tellimyalis**Petricola sp.*

120

10

40

## Semelidae

*Cumingia californica**Theora lubrica*

## Solecurtidae

*Tagelus subteres*

20

## Solenidae

*Ensis myrae**Siliqua lucida**Solen sp. (juv.)*

## Tellinidae

*Leporimetis obesa*

10

70

50

*Macoma acolasta**Macoma carlottensis**Macoma nasuta**Macoma sp. (juv.)*

10

*Tellina modesta**Tellina sp. (juv.)*

10

## Thyasiridae

*Axinopsida serricata**Thyasira flexuosa*

## Veneridae

*Chione ?undatella**Chione sp. (juv.)**Protothaca staminea*

10

30

30

*Protothaca sp.*

350

10

200

*Saxidomus nuttalli**Saxidomus sp. (juv.)*

## Polyplacophora, unid.

20

## NEMERTEA, unid.

20

120

220

10

## PHORONIDA, unid.

*Phoronis pallida**Phoronis sp.**Phoronopsis sp.*

10

## PLATYHELMINTHES

## Polycladida, unid.

50

30

## PROTOZOA

## Foraminifera

*"Rosalina-like" forams*

100

## SIPUNCULIDA, unid.

## HARBORS ENVIRONMENTAL PROJECTS

## STATION MDR 4

## BENTHIC DATA

	28 Oct 1976	17 Mar 1977	23 Jun 1977	16 Sep 1977	28 Dec 1977
<b>ANNELIDA</b>					
OLIGOCHAETA, unid.	130	80	550	300	220
Tubificidae					
<i>Peloscolex gabriellae</i>					
<b>POLYCHAETA</b>					
Ampharetidae					
<i>Ampharete labrops</i>			30	30	
<i>Amphicteis scaphobranchiata</i>		10			20
<i>Melinna oculata</i>					
Arabellidae, unid. (juv.)					
Capitellidae					
<i>Capitella capitata</i> ,	10			200	30
<i>Mediomastus acutus</i>					
<i>Mediomastus californiensis</i>	3860	3520	1880	3960	4860
(= <i>Capitita ambiseta</i> )					
<i>Notomastus tenuis</i>	460	180	610	40	210
Chaetopteridae, unid. (frag.)			20		
<i>Spiochaetopterus costarum</i>					
Chrysopetalidae					
<i>Chrysopetalum occidentale</i>					
<i>Palearnotus bellis</i>			20		
Cirratulidae, unid.					
<i>Caulieriella alata</i>				210	110
<i>Caulieriella bioculata</i>					
<i>Caulieriella hamata</i>	10				
<i>Caulieriella sp.</i>	10				
<i>Chaetozone corona</i>	30	160	40	280	180
<i>Chaetozone setosa</i>		10		30	160
<i>Chaetozone sp.</i>					
<i>Cirratulus cirratus</i>			10		
<i>Cirriformia luxuriosa</i>					10
<i>Cirriformia sp. (juv.)</i>					
<i>Tharyx nr. tesselata</i>	10			220	
<i>Tharyx spp.</i>	110	230	70		90
Cossuridae					
<i>Cossura candida</i>	30				
<i>Cossura pygodactylata</i>		800	80	6910	440
Ctenodrilidae					
<i>Ctenodrilus serratus</i>					
Dorvilleidae, unid.					
<i>Ophryotrocha puerilis</i>					
<i>Protodorvillea gracilis</i>					
<i>Schistomerengos longicornis</i>	270	490	110	880	1180
Flabelligeridae, unid.					
<i>Pherusa capulata</i>					10
<i>Pherusa sp.</i>					
Glyceridae					
<i>Glycera americana</i>			30		
<i>Glycera capitata</i>		20	10		10
<i>Glycera convoluta</i>					40
<i>Glycera rouxi</i>				20	
<i>Glycera sp. (juv.)</i>					

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## HARBORS ENVIRONMENTAL PROJECTS

## BENTHIC DATA

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## POLYCHAETA (cont.)

Goniadiidae, unid. (juv.)					10
<i>Glycinde armigera</i>	10				
<i>Goniada brunnea</i>	230	200		10	
<i>Goniada littorea</i>			50		10
<i>Goniada sp.</i>					
Hesionidae, unid.					10
<i>Hesionidae, new genus</i>					
<i>Cyptis brevipalpa</i>	30	10	10	10	10
<i>Cyptis brunnea</i>					
<i>Ophicdromus pugettensis</i>	10	10	10		
Lumbrineridae, unid.					
<i>Lumbrineris ?crassidentata</i>					
<i>Lumbrineris erecta</i>					
<i>Lumbrineris ?tetaura</i>					
<i>Lumbrineris spp.</i>	2460	2430	630	3160	2210
Magelonidae					
<i>Magelona sacculata</i>					
Maldanidae, unid. (frag.)					
<i>Asychis sp.</i>					
<i>Axiothella sp.</i>					
<i>Praxillella affinis pacifica</i>					
<i>Praxillella sp.</i>					
Nephtyidae, unid.					
<i>Nephtys caecoides</i>		60	40		10
<i>Nephtys californiensis</i>					
<i>Nephtys cornuta franciscana</i>		40			
<i>Nephtys ferruginea</i>					
Nereidae, unid. (juv.)				10	
<i>Neanthes arenaceodentata</i>	10				
<i>Nereis latescens</i>	10			20	
<i>Nereis procera</i>	20				
<i>Nereis sp. (juv.)</i>					
<i>?Perinereis monterea</i>					
<i>Platynereis bicanaliculata</i>			10		
Onuphidae, unid. (juv.)					
<i>Diopatra ornata</i>				40	
<i>Diopatra splendidissima</i>					
<i>Diopatra sp. (juv.)</i>	10				
Opheliidae					
<i>Armandia bioculata</i>	80	20	120	50	240
<i>Polyopthalamus pictus</i>	40	20		10	
Orbiniidae					
<i>Haploscoloplos elongatus</i>	840	450	40	210	100
<i>Naineris dendritica</i>					
<i>Scoloplos acmeceps</i>					
Oweniidae					
<i>Owenia collaris</i>					
Paraonidae					
<i>Acesta catherinae</i>					
<i>Acesta horikoshii</i>					
<i>Paraonella platybranchia</i>					
<i>(=Paraonides platybranchia)</i>					

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## HARBORS ENVIRONMENTAL PROJECTS

## BENTHIC DATA

STATION MDR 4

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## POLYCHAETA (cont.)

## Pectinariidae

*Pectinaria californiensis*  
  (=P. c. newportensis)

30      10

## Phyllodocidae, unid.

*Anaitides nr. papillosa*

50

*Anaitides sp. (juv.)**Eteone californica**Eteone dilatae**Eteone sp.*

30

*Eulalia aviculifera**Eulalia ?myriacyclum*

10

*Eulalia quadrioculata*

30

*Eulalia sp. (juv.)**Eumida bifoliata*

40

*Eumida sanguinea**?Genetyllis castanea**Hesionura coineau i difficultis**Phyllocoete sp.*

10

10      10

## Pilargidae

*Ancistrosyllis hamata**Sigambla tentaculata*

10

## Polynoidae, unid. (frag.)

*Halosydna johnsoni**Halosydna sp.**Harmothoe ?crassicirrata*

20

*Harmothoe hirsuta**Harmothoe imbricata**Harmothoe priops*

20

50

*Harmothoe scriptoria*

30

30

40      50

*Harmothoe sp.*

10

*Lepidonotus ?squamus*

## Sabellariidae

*Sabellaria cementarium*

## Sabellidae, unid.

20

*Chone ecaudata**Chone sp.*

10

60

120      30

*Euchone limnicola**Megalomma pigmentum**Myxicola ?infundibulum**?Potamilla sp.*

10

## Scalabregmidae

*Scalabregma inflatum*

10

## Serpulidae

*Eupomatus gracilis**Hydroides pacifica*

140

10

260      110

## Sigalionidae

*Pholoe glabra**Sthenelanella uniformis**Sthenelais verruculosa*

## Spionidae, unid.

*Boccardia sp.**Boccardiella hamata*

(=Boccardia hamata)

*Laonice cirrata*

50

HARBORS ENVIRONMENTAL PROJECTS  
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<b>POLYCHAETA (cont.)</b>					
<b>Spionidae, unid. (cont.)</b>					
<i>Paraprionospio pinnata</i>		10	10		
<i>Polydora ligni</i>	90			160	
<i>Polydora socialis</i>					
<i>Polydora</i> sp.					
<i>Prionospio cirrifera</i>	240	170	280	680	120
<i>Prionospio heterobranchia</i> (= <i>P. h. newportensis</i> )	670	910	60	2310	1600
<i>Prionospio pygmaeus</i>	330	670		80	520
<i>Prionospio</i> sp.					
<i>Pseudopolydora paucibranchiata</i>	170	30		1390	10
<i>Rhynchospius ?arenicola</i>					
<i>Rhynchospius</i> sp.					
<i>Scolelepis acuta</i> (= <i>Nerinides acuta</i> )	220	50		10	210
<i>Spio ?filicornis</i>					
<i>Spio maculata</i> (= <i>Nerinides maculata</i> )					
<i>Spiophanes missionensis</i>	120	100	140	100	20
<i>Streblospio benedicti</i>	50	20	10	330	1040
<b>Spirorbidae</b>					
<i>Janua brasiliensis</i>			140		
<i>Pileolaria pseudomilitaris</i>			520		
<b>Syllidae, unid.</b>					
<i>Autolytus</i> sp.					
<i>Brania</i> sp.		30			
<i>Eusyllis</i> sp.					
<i>Exogone gemmifera</i>					
<i>Exogone lourei</i>					
<i>Exogone verugera</i>					
<i>Exogone</i> sp.					
<i>Odontosyllis phosphorea</i>					
<i>Sphaerosyllis californiensis</i>					
<i>Sphaerosyllis</i> sp.	20				
<i>Syllides</i> sp.					
? <i>Syllis</i> sp.					
<i>Typosyllis ?hyalina</i>					
<i>Typosyllis</i> sp.					
<b>Terebellidae, unid.</b>					
<i>Amaeana occidentalis</i>	530	210		340	300
<i>Pista fasciata</i>					
<i>Pista ?disjuncta</i>					
<i>Pista</i> sp. (juv.)					10
<i>Streblosoma crassibranchia</i>				40	
<b>ARTHROPODA--CRUSTACEA</b>					
<b>Amphipoda</b>					
<i>Caprellidea, unid.</i>	70		60	2050	30
<i>Gammaridea, unid.</i>	100	20	70	1940	110
<b>Copepoda</b>					
<i>Calanoida, unid.</i>					
<i>Cyclopoida, unid.</i>			20		
<i>Clausidium vancouverense</i>					
<i>Harpacticoida, unid.</i>					

## HARBORS ENVIRONMENTAL PROJECTS

## BENTHIC DATA

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## ARTHROPODA CRUSTACEA (cont.)

Cumacea, unid.				30	
<i>Cycloaspis</i> sp.					
<i>Diastylis</i> sp.					
<i>Diastylopsis tenuis</i>	40	10			
<i>Oxyurostylus pacifica</i>	250	130	30		30
Decapoda					
Decapod zoea la.					
Anomura					
Paguridae					
<i>Pagurus</i> sp.					
Brachyura					
Canceridae					
<i>Cancer anthonyi</i>			10		
<i>Cancer gracilis</i>					
<i>Cancer</i> sp. (juv.)					
Grapsidae					
<i>Hemigrapsus oregonensis</i>		10	10	20	
<i>Hemigrapsus</i> sp. (juv.)	10				
Majidae					
<i>Pyromais tuberculata</i>					
Pinnotheridae, unid.				10	30
<i>Opisthopus transversus</i>	10				
<i>Pinnixa franciscana</i>					
<i>Pinnixa</i> sp.					
<i>Scleroplax granulata</i>					
Caridea					
Alpheidae, unid.					20
<i>Alpheus californiensis</i>				40	
<i>Alpheus equidactylus</i>	50				
<i>Betaeus</i> sp. (frag.)				20	
Palaemonidae					
<i>Palaemonella holmesi</i>					
Macrura					
Callianassidea					
<i>Callianassa</i> sp.	10			10	30
<i>Upogebia</i> sp.					
Isopoda, unid.					20
<i>Edotea</i> sp.					
<i>Limnoria</i> sp.					
<i>Mona</i> sp.					
Mysidacea, unid.					
Nebaliacea, unid.					
Ostracoda, unid.					
<i>Cylindroleberidinae</i> , unid.	10				
<i>Philomedes</i> sp.	10				
<i>Rutiderma rostrata</i>					
Tanaidacea, unid.				70	
<i>Anatanais normani</i>					
<i>Leptochelia</i> sp.					
Thoracica					
<i>Balanus pacificus</i>					

HARBORS ENVIRONMENTAL PROJECTS  
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STATION MDR 4

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## ARTHROPODA CRUSTACEA (cont.)

## Decapoda (cont.)

## Thoracica (cont.)

- Balanus tintinnabulum californicus*
- Balanus trigonus*
- Balanus sp.*

## ARTHROPODA--INSECTA

## Chironomidae, larvae

- Paraclunio alaskensis* (larvae)

## ARTHROPODA--PYCNOGONIDA

10 10

- Anoplodactylus erectus*
- Callipallene californiensis*
- Pallenidae, unid.
- Tantystylum intermedium*

## ASCHELMINTHES

## Nematoda, unid.

150 120 210

## BRACHIOPODA

- Glottidia albida*

## BRYOZOA (=ECTOPROCTA)

- Bowerbankia gracilis* 1 col.
- Bugula neritina* 4 col. 9 pcs. 6
- Bugula stolonifera*  
(=*Bugula californica*) 1
- Celleporaria brunnea*
- Cryptosula pallasiana*
- Schizoporella unicornis*
- Watersipora arcuata*
- Zoobotryon verticillatum* 1 col.

## CHORDATA

## Cephalochordata

- Branchiostoma californiense*

## Osteichthys

- Gobiesocidae
- Gobiesox rhessodon*
- Gobieidae, unid.
- Gobieidae, larvae
- Clevelandia ios*
- Ilypnus gilberti*
- Lepidogobius lepidus*

## Urochordata

- Ascidacea, unid.
- Botryllus sp.*
- Ciona intestinalis* 10
- Mogula pugetensis*
- Styela clava* 20
- Styela plicata* 10

## CNIDARIA (=COELENTERATA)

## Anthozoa

- Actinaria, unid.
- Diadumene sp.*
- Edwardsia californica*
- Edwardsia nr. sipunculoides*
- Edwardsia sp. (juv.)*

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BENTHIC DATA

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STATION MDR 4

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## CNIDARIA (Cont.)

## Anthozoa

*Actinaria*, unid.*Edwardsiidae*, unid.*Mesacmaea* sp. A*Ceriantharia*, unid.

10 10

## Hydrozoa--Hydroida

*Aglaophenia diversidentata**Aglaophenia* nr. *pluma*

3 col.

*Corymorpha aurata*

## ECHINODERMATA

*Echinoidea*, unid. (juv.)*Strongylocentrotus purpuratus**Holothuroidea*, unid.*Ophiuroidea*, unid. (juv.)

## ECHURA

*Urechis caupo*

## HEMICORDATA

*Enteropneusta*, unid.

## MOLLUSCA--Gastropoda, unid. (juv.)

## Gastropoda--Ophisthobranchia

*Cephalaspidea*, unid.*Acteocina harpa**Acteocina inculta**Aglaja* sp.*Bulla gouldiana**Ricciaria punctocaulatus**Sulcoretusa* sp.*Woodbridgea* sp.

10

*Nudibranchia*, unid.*Acanthodoris* sp.*Trinchesia* sp.*Pyramidellida**Odostomia* sp.

## Gastropoda--Prosobranchia

## Mesogastropoda

## Caecidae

*Caecum* sp.*Furtulium* sp.*?Micranellium* sp.

## Calyptaeidae

*Crepidula dorsata*(-*Crepipatella lingulata*)*Crepidula onyx**Crepidula preferrans**Crepidula* sp. (juv.)

20

## Lamellariidae

*Lamellaria sharona*

## Naticidae

*Neverita reclusiana**Sinum* sp.

## Vitrinellidae

*Vitrinella oldroydi*

HARBORS ENVIRONMENTAL PROJECTS  
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STATION MDR 4

	28 Oct 1976	17 Mar 1977	23 Jun 1977	16 Sep 1977	28 Dec 1977
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## MOLLUSCA (cont.)

## Gastropoda--Prosobranchia (cont.)

Neogastropoda					
Columbellidae					
<i>Mitrella carinata</i>					
<i>Mitrella</i> sp.					
Muricidae					
<i>Pteropurpura festiva</i>					
Nassariidae					
<i>Nassarius mendicus</i>					
<i>Nassarius perpinguis</i>					
<i>Nassarius</i> sp.				10	
Olividae					
<i>Olivella baetica</i>					
Pyramidellidae					
<i>Turbanilla</i> sp.					
Turridae					
<i>Kurtziella plumbea</i>					
Pelecypoda, unid. (juv.)				20	60
Cardiidae					
<i>Leivicardium substriatum</i>				30	30
Cooperellidae					
<i>Cooperella subdiaphana</i>	10				10
Donacidae					
<i>Donax gouldii</i>					
Erycinidae					
<i>Lasaea subviridis</i>					
Hiatellidae					
<i>Hiatella arctica</i>					
Leptonidae					
<i>"Lepton meroeum"</i>					
Lucinidae					
<i>Parvilucina tenuisculpta</i>					10
( <i>=Parvilucina</i> sp.)					
Lyonsiidae					
<i>Lyonsia californica</i>				40	10
Mactridae, unid. (juv.)				10	
<i>Mactra californica</i>					
<i>Mactra</i> sp.					
<i>Spisula catilliformis</i>					
<i>Spisula</i> sp.					
<i>Tresus nuttalli</i>					
Montacutidae					
<i>Orobittella</i> sp.	80		80		
<i>Mysella pedroana</i>					10
<i>Mysella</i> sp.		40		20	
Myidae					
<i>Cryptomya californica</i>					
Mytilidae, unid. (juv.)				10	
<i>Amygdalum</i> sp.					
<i>Modiolus</i> sp.	20				
<i>Mytilus edulis</i>				110	340
Ostreidae					
<i>Ostrea Lurida</i>					
Pectinidae					
<i>Leptopecten latiauratus</i>					

## HARBORS ENVIRONMENTAL PROJECTS

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STATION MDR 4

## BENTHIC DATA

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MOLLUSCA (cont.)					
Pelecypoda (cont.)					
Petricolidae					
<i>Petricola tellimyalis</i>	10				10
<i>Petricola</i> sp.			10		
Semelidae					
<i>Cumingia californica</i>	10				
<i>Theora lubrica</i>	10			20	
Solecurtidae					
<i>Tagelus subteres</i>	140		100	1020	20
Solenidae					
<i>Ensis myrae</i>					
<i>Siliqua lucida</i>					
<i>Solen</i> sp. (juv.)					
Tellinidae					
<i>Leporimetis obesa</i>	250		10	30	40
<i>Macoma acolasta</i>					
<i>Macoma carlottensis</i>					
<i>Macoma nasuta</i>	10		10		10
<i>Macoma</i> sp. (juv.)	60		10	10	
<i>Tellina modesta</i>			20	10	
<i>Tellina</i> sp. (juv.)	60			10	
Thyasiridae					
<i>Axinopsida serricata</i>					
<i>Thyasira flexuosa</i>					
Veneridae					
<i>Chione undatella</i>					
<i>Chione</i> sp. (juv.)					
<i>Protobrachia staminea</i>					
<i>Protobrachia</i> sp.	150		60	90	10
<i>Saxidomus nuttalli</i>					
<i>Saxidomus</i> sp. (juv.)	50		30	60	
Polyplacophora, unid.					
NEMERTEA, unid.	50	120	80	80	190
PHORONIDA, unid.					
<i>Phoronis pallida</i>					
<i>Phoronis</i> sp.					10
<i>Phoronopsis</i> sp.					
PLATYHELMINTHES					
<i>Polycladida</i> , unid.	20	70	10		20
PROTOZOA					
Foraminifera					
<i>"Rosalina-like" forams</i>					
SIPUNCULIDA, unid.					

HARBORS ENVIRONMENTAL PROJECTS  
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	STATION MDR 5				
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<b>ANNELIDA</b>					
OLIGOCHAETA, unid.					
Tubificidae				80	80
<i>Peloscolex gabriellae</i>					40
POLYCHAETA					
Ampharetidae					
<i>Ampharete labrops</i>					
<i>Amphicteis scaphobranchiata</i>				10	
<i>Melinna oculata</i>					
Arabellidae, unid. (juv.)					
Capitellidae					
<i>Capitella capitata</i>					
<i>Mediomastus acutus</i>					
<i>Mediomastus californiensis</i>	3570	2670	4810	2560	2730
(=Capitita ambiseta)					
<i>Notomastus tenuis</i>	10	10			
Chaetopteridae, unid. (frag.)					
<i>Spiochaetopterus costarum</i>					
Chrysopetalidae					
<i>Chrysopetalum occidentale</i>					
<i>Paleanotus bellis</i>					
Cirratulidae, unid.					
<i>Caulieriella alata</i>					
<i>Caulieriella bioculata</i>					
<i>Caulieriella hamata</i>					
<i>Caulieriella sp.</i>					
<i>Chaetozone corona</i>	650	250	280	210	390
<i>Chaetozone setosa</i>					10
<i>Chaetozone sp.</i>					
<i>Cirratulus cirratus</i>					
<i>Cirriformia luxuriosa</i>					
<i>Cirriformia sp</i> (juv.)					10
<i>Tharyx nr. tessellata</i>	60				
<i>Tharyx spp.</i>	20	10	30	30	70
Cossuridae					
<i>Cossura candida</i>	40	10	20		30
<i>Cossura pygodactylata</i>	70		80	360	20
Ctenodrilidae					
<i>Ctenodrilus serratus</i>					
Dorvilleidae, unid.					
<i>Ophryotrocha puerilis</i>					
<i>Protodorvillea gracilis</i>					
<i>Schistomerengos longicornis</i>	10				
Flabelligeridae, unid.					
<i>Pherusa capulata</i>					
<i>Pherusa sp.</i>					
Glyceridae					
<i>Glycera americana</i>			10		
<i>Glycera capitata</i>					
<i>Glycera convoluta</i>					
<i>Glycera rouxi</i>					
<i>Glycera sp.</i> (juv.)					

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## POLYCHAETA (cont.)

## Goniadidae, unid. (juv.)

<i>Glycinde armigera</i>			10		
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<i>Goniada brunnea</i>					
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<i>Goniada littorea</i>					
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<i>Goniada sp.</i>					
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## Hesionidae, unid.

<i>Hesionidae, new genus</i>					
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<i>Gyptis brevipalpa</i>	30			10	
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<i>Gyptis brunnea</i>					
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<i>Ophiodromus pugettensis</i>					
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## Lumbrineridae, unid.

<i>Lumbrineris ?crassidentata</i>					
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<i>Lumbrineris erecta</i>					
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<i>Lumbrineris ?tetaura</i>					
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<i>Lumbrineris spp.</i>	670	730	570	640	410
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## Magelonidae

<i>Magelona sacculata</i>					
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## Maldanidae, unid. (frag.)

<i>Asychis sp.</i>					
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<i>Ariothella sp.</i>					
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<i>Praxillella affinis pacifica</i>					
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<i>Praxillella sp.</i>					
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## Nephtyidae, unid.

<i>Nephtys caecoides</i>			40		
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<i>Nephtys californiensis</i>					
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<i>Nephtys cornuta franciscana</i>			30		
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<i>Nephtys ferruginea</i>				20	
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## Nereidae, unid. (juv.)

<i>Neanthes arenaceodentata</i>	10				
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<i>Nereis latescens</i>					
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<i>Nereis procera</i>			30		
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<i>Nereis sp. (juv.)</i>					
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<i>?Perinereis monterea</i>					
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<i>Platynereis bicanaliculata</i>					
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## Onuphidae, unid. (juv.)

<i>Diopatra ornata</i>					
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<i>Diopatra splendidissima</i>					
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<i>Diopatra sp. (juv.)</i>					
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## Opheliidae

<i>Armandia bioculata</i>					
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<i>Polyopthalmus pictus</i>					
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## Orbiniidae

<i>Haploscoloplos elongatus</i>	90	150	200	120	110
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<i>Naineris dendritica</i>					
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<i>Scoloplos acmeceps</i>					
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## Oweniidae

<i>Owenia collaris</i>					
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## Paraonidae

<i>Acesta catherinae</i>					
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<i>Acesta horikoshii</i>					
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<i>Paraonella platybranchia</i>		10			
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<i>(=Paraonides platybranchia)</i>					
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## POLYCHAETA (cont.)

## Pectinariidae

*Pectinaria californiensis*  
(=*P. c. newportensis*)

## Phyllodocidae, unid.

*Anaitides nr. papillosa*

*Anaitides* sp. (juv.)

*Eteone californica*

*Eteone dilatae*

*Eteone* sp.

*Eulalia aviculifera*

*Eulalia ?myriacyclum*

*Eulalia quadrioculata*

*Eulalia* sp. (juv.)

*Eumida bifoliata*

*Eumida sanguinea*

?*Genetyllis castanea*

*Hesionura coineaui difficilis*

*Phyllocoelus* sp.

## Pilargidae

*Ancistrosyllis hamata*

*Sigambra tentaculata*

10 20

## Polynoidae, unid. (frag.)

*Halosydna johnsoni*

*Halosydna* sp.

*Harmothoe ?crassicirrata*

*Harmothoe hirsuta*

*Harmothoe imbricata*

10

*Harmothoe priops*

*Harmothoe scriptoria*

30 50 10

*Harmothoe* sp.

10

*Lepidonotus ?squamus*

## Sabellariidae

*Sabellaria cementarium*

10

## Sabellidae, unid.

*Chone ecaudata*

10

*Chone* sp.

*Euchone limnicola*

*Megalomma pigmentum*

*Myxicola ?infundibulum*

?*Potamilla* sp.

## Scalabregmidae

*Scalabregma inflatum*

## Serpulidae

*Eupomatus gracilis*

*Hydroïdes pacifica*

## Sigalionidae

*Pholoe glabra*

*Sthenelanella uniformis*

*Sthenelais verruculosa*

## Spionidae, unid.

*Boccardia* sp.

*Boccardiella hamata*

(=*Boccardia hamata*)

*Laonice cirrata*

10

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POLYCHAETA (cont.)

Spionidae, unid. (cont.)

<i>Paraprionospio pinnata</i>			20	10	
<i>Polydora ligni</i>		10	20	60	240
<i>Polydora socialis</i>					
<i>Polydora</i> sp.					
<i>Prionospio cirrijera</i>	10	30	50	30	20
<i>Prionospio heterobranchia</i> (= <i>P.h. newportensis</i> )	140	60	90	1180	370
<i>Prionospio pygmacus</i>	10	10			10
<i>Prionospio</i> sp.					
<i>Pseudopolydora paucibranchiata</i>	750	960	2090	7310	990
<i>Rhynchospius ?arenicola</i>					
<i>Rhynchospius</i> sp.					
<i>Scolelepis acuta</i> (= <i>Nerinides acuta</i> )	140	40	60	50	110
<i>Spio ?filicornis</i>					
<i>Spio maculata</i> (= <i>Nerinides maculata</i> )					
<i>Spiophanes missionensis</i>			50	30	
<i>Streblospio benedicti</i>	660		130	1380	730

Spirorbidae

<i>Janua brasiliensis</i>	
<i>Pileolaria pseudomilitaris</i>	

Syllidae, unid.

<i>Autolytus</i> sp.	
<i>Brania</i> sp.	10
<i>Eusyllis</i> sp.	
<i>Exogone gemmifera</i>	
<i>Exogone lourei</i>	
<i>Exogone verugera</i>	
<i>Exogone</i> sp.	
<i>Odontosyllis phosphorea</i>	
<i>Sphaerosyllis californiensis</i>	
<i>Sphaerosyllis</i> sp.	
<i>Syllides</i> sp.	
? <i>Syllis</i> sp.	
? <i>Typosyllis</i> ? <i>hyalina</i>	
? <i>Typosyllis</i> sp.	

Terebellidae, unid.

<i>Amaeana occidentalis</i>	260	50	240	200	80
<i>Pista fasciata</i>					
<i>Pista</i> ? <i>disjuncta</i>					
<i>Pista</i> sp. (juv.)					

*Streblosooma crassibranchia*

ARTHROPODA--CRUSTACEA

Amphipoda

<i>Caprellidea</i> , unid.		10	190	810
<i>Gammaridea</i> , unid.		10	210	170

Copepoda

<i>Calanoida</i> , unid.	
<i>Cyclopoidae</i> , unid.	
<i>Clausidium vancouverense</i>	40
<i>Harpacticoida</i> , unid.	

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## ARTHROPODA CRUSTACEA (cont.)

Cumacea, unid.					
<i>Cyclaspis</i> sp.					
<i>Diastylis</i> sp.			10		
<i>Diastylopsis tenuis</i>					
<i>Oxyurostylus pacifica</i>					
Decapoda					
Decapod zoea larvae					
Anomura					
Paguridae					
<i>Pagurus</i> sp.					
Brachyura					
Canceridae					
<i>Cancer anthonyi</i>					
<i>Cancer gracilis</i>					
<i>Cancer</i> sp. (juv.)					
Grapsidae					
<i>Hemigrapsus oregonensis</i>					
<i>Hemigrapsus</i> sp. (juv.)					
Majidae					
<i>Pyromaria tuberculata</i>					
Pinnotheridae, unid.					
<i>Opisthopus transversus</i>					
<i>Pinnixa franciscana</i>					
<i>Pinnixa</i> sp.					
<i>Scleroplax granulata</i>					
Caridea					
Alpheidae, unid.					
<i>Alpheus californiensis</i>					
<i>Alpheus equidactylus</i>					
<i>Betaeus</i> sp. (frag.)					
Palaemonidae					
<i>Palaemonella holmesi</i>					
Macrura					
Callianassidea					
<i>Callianassa</i> sp.					
<i>Upogebia</i> sp.					
Isopoda, unid.					
<i>Edotea</i> sp.					
<i>Limnoria</i> sp.					
<i>Munna</i> sp.					
Mysidacea, unid.		10		170	
Nebaliacea, unid.					
Ostracoda, unid.					
<i>Cylindroleberidinae</i> , unid.					
<i>Philomedes</i> sp.					
<i>Rutiderma rostrata</i>					
Tanaidacea, unid.					
<i>Anatanaid normani</i>					
<i>Leptocheilia</i> sp.					
Thoracica					
<i>Balanus pacificus</i>					

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## ARTHROPODA CRUSTACEA (cont.)

## Decapoda (cont.)

## Thoracica (cont.)

- Balanus tintinnabulum californicus*
- Balanus trigonus*
- Balanus sp.*

## ARTHROPODA--INSECTA

## Chironomidae, larvae

- Paraclunio alaskensis* (larvae)

## ARTHROPODA—PYCNOGONIDA

- Anoplodactylus erectus*
- Callipallene californiensis*
- Pallenidae, unid.
- Tantystylum intermedium*

## ASCHELMINTHES

- Nematoda, unid.

## BRACHIOPODA

- Glottidia albida*

## BRYOZOA (=ECTOPROCTA)

- Bowerbankia gracilis*
- Bugula neritina*
- Bugula stolonifera*  
(=*Bugula californica*)
- Celleporaria brumnea*
- Cryptosula pallasiana*
- Schizoporella unicornis*
- Watersipora arcuata*
- Zoobotryon verticillatum*

## CHORDATA

## Cephalochordata

- Branchiostoma californiense*

## Osteichthys

- Gobiesocidae
- Gobiesox rhessodon*
- Gobieidae, unid.
- Gobieidae, larvae
- Clevelandia ios*
- Ilypnus gilberti*
- Lepidogobius lepidus*

20

## Urochordata

- Ascidacea, unid.

- Botryllus sp.*

- Ciona intestinalis*

- Mogula pugetiensis*

- Styela clava*

- Styela plicata*

## CNIDARIA (=COELENTERATA)

## Anthozoa

- Actinaria, unid.

- Diadumene sp.*

- Edwardsia californica*

- Edwardsia nr. sippunculoides*

- Edwardsia sp.* (juv.)

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## CNIDARIA (Cont.)

## Anthozoa

*Actinaria*, unid.*Edwardsiidae*, unid.*Mesacmaea* sp. A*Ceriantharia*, unid.

## Hydrozoa--Hydroida

*Aglaophenia diversidentata**Aglaophenia* nr. *pluma**Corymorphia aurata*

## ECHINODERMATA

*Echinoidea*, unid. (juv.)*Strongylocentrotus purpuratus**Holothuroidea*, unid.*Ophiuroidea*, unid. (juv.)

## ECHURA

*Urechis caupo*

## HEMICHORDATA

*Enteropneusta*, unid.

## MOLLUSCA --Gastropoda, unid. (juv.)

40

Gastropoda--Ophistobranchia

*Cephalaspidea*, unid.*Acteocina harpa**Acteocina inculta*

40            20

60

20

*Aglaja* sp.*Bulla gouldiana**Rictaxis punctocaulatus**Sulcoretusa* sp.*Woodbridgea* sp.*Nudibranchia*, unid.*Acanthodoris* sp.*Trinchesia* sp.

20

*Pyramidellida**Odostomia* sp.

## Gastropoda--Prosobranchia

*Mesogastropoda**Caecidae**Caecum* sp.*Furtulum* sp.? *Micranellium* sp.*Calyptraeidae**Crepidula dorsata* (= *Crepidatella lingulata*)*Crepidula onyx**Crepidula perforans**Crepidula* sp. (juv.)*Lamellariidae**Lamellaria sharonae**Naticidae**Neverita reclusiana**Sinum* sp.*Vitrinellidae**Vitrinella oldroydi*

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MOLLUSCA (cont.)					
Gastropoda--Prosobranchia (cont.)					
Neogastropoda					
Columbellidae					
<i>Mitrella carinata</i>					
<i>Mitrella sp.</i>					
Muricidae					
<i>Pteropurpura festiva</i>					
Nassariidae					
<i>Nassarius mendicus</i>					
<i>Nassarius perpinguis</i>					
<i>Nassarius sp.</i>					
Olividae					
<i>Olivella baetica</i>					
Pyramidellidae					
<i>Turbanilla sp.</i>					
Turridae					
<i>Kurtziella plumbea</i>					
Pelecypoda, unid. (juv.)	10			40	
Cardiidae					10
<i>Laevicardium substriatum</i>					
Cooperellidae					
<i>Cooperella subdiaphana</i>					
Donacidae					
<i>Donax gouldii</i>					
Erycinidae					
<i>Lasaea subviridis</i>					
Hiatellidae					
<i>Hiatella arctica</i>					
Leptonidae					
<i>"Lepton meroeum"</i>					
Lucinidae					
<i>Parvilucina tenuisculpta</i>	10				
( <i>=Parvilucina sp.</i> )					
Lyonsiidae					
<i>Lyonsia californica</i>					
Mactridae, unid. (juv.)					
<i>Mactra californica</i>					
<i>Mactra sp.</i>					
<i>Spisula catilliformis</i>					
<i>Spisula sp.</i>					
<i>Tresus nuttalli</i>					
Montacutidae					
<i>Orobitella sp.</i>					
<i>Mysella pedrocana</i>	10				10
<i>Mysella sp.</i>					
Myidae					
<i>Cryptomya californica</i>					
Mytilidae, unid. (juv.)					
<i>Amygdalum sp.</i>					
<i>Modiolus sp.</i>	10				
<i>Mytilus edulis</i>					
Ostreidae					
<i>Ostrea lurida</i>					
Pectinidae					
<i>Leptopecten latiauratus</i>					

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MOLLUSCA (cont.)					
Pelecypoda (cont.)					
Petricolidae					
<i>Petricola tellimyalis</i>					
<i>Petricola</i> sp.					
Semelidae					
<i>Cumingia californica</i>					
<i>Theora lubrica</i>		10		10	
Solecurtidae					
<i>Tagelus subteres</i>	20	10	20	30	20
Solenidae					
<i>Ensis myrae</i>					
<i>Siliqua lucida</i>					
<i>Solen</i> sp. (juv.)					
Tellinidae					
<i>Leporimetis obesa</i>					
<i>Macoma acolasta</i>					
<i>Macoma carlottensis</i>					
<i>Macoma nasuta</i>		10	10	250	20
<i>Macoma</i> sp. (juv.)	120		80		
<i>Tellina modesta</i>					
<i>Tellina</i> sp. (juv.)	10	10	20	10	
Thyasiridae					
<i>Axinopsida serricata</i>					
<i>Thyasira flexuosa</i>					
Veneridae					
<i>Chione ?undatella</i>	10				
<i>Chione</i> sp. (juv.)					
<i>Protothaca staminea</i>					
<i>Protothaca</i> sp.	90		30	20	
<i>Saxidomus nuttalli</i>					
<i>Saxidomus</i> sp. (juv.)					
Polyplacophora, unid.					
NEMERTEA, unid.	10	20	30	40	10
PHORONIDA, unid.					
<i>Phoronis pallida</i>					
<i>Phoronis</i> sp.	10				
<i>Phoronopsis</i> sp.					
PLATYHELMINTHES					
<i>Polycladia</i> , unid.					
PROTOZOA					
Foraminifera					
<i>"Rosalina-like" forams</i>					
SIPUNCULIDA, unid.					

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## ANNELIDA

<i>OLIGOCHAETA</i> , unid.	40	110	100	20	100
<i>Tubificidae</i>					
<i>Pelocolax gabriellae</i>					
<i>POLYCHAETA</i>					
<i>Ampharetidae</i>					
<i>Ampharete labrops</i>					
<i>Amphicteis scaphobranchiata</i>					
<i>Melinna oculata</i>					
<i>Arabellidae</i> , unid. (juv.)					
<i>Capitellidae</i>					
<i>Capitella capitata</i>	20		100	10	240
<i>Mediomastus acutus</i>					
<i>Mediomastus californiensis</i> (=Capitita ambiseta)	380	100	390	660	470
<i>Notomastus tenuis</i>	20	30	40	10	30
<i>Chaetopteridae</i> , unid. (frag.)					
<i>Spiochaetopterus costarum</i>					
<i>Chrysopetalidae</i>					
<i>Chrysopetalum occidentale</i>					
<i>Paleanotus bellis</i>					
<i>Cirratulidae</i> , unid.					
<i>Caulieriella alata</i>					
<i>Caulieriella bioculata</i>					
<i>Caulieriella hamata</i>					
<i>Caulieriella</i> sp.					
<i>Chaetozone corona</i>	30	30	20	10	10
<i>Chaetozone setosa</i>			10		40
<i>Chaetozone</i> sp.					
<i>Cirratulus cirratus</i>	20			40	
<i>Cirriformia luxuriosa</i>	10	10			
<i>Cirriformia</i> sp (juv.)					20
<i>Tharyx</i> nr. <i>tesselata</i>					
<i>Tharyx</i> spp.	330	490	230	150	290
<i>Cossuridae</i>					
<i>Cossura candida</i>					
<i>Cossura pygodactylata</i>	100	10	60	120	80
<i>Ctenodrilidae</i>					
<i>Ctenodrilus serratus</i>					
<i>Dorvilleidae</i> , unid.					
<i>Ophryotrocha puerilis</i>					
<i>Protodorvillea gracilis</i>					
<i>Schistomerengos longicornis</i>	70	350	140	60	510
<i>Flabelligeridae</i> , unid.					
<i>Fherusa capulata</i>					
<i>Fherusa</i> sp.				10	
<i>Glyceridae</i>					
<i>Glycera americana</i>	10	10			
<i>Glycera capitata</i>					
<i>Glycera convoluta</i>					
<i>Glycera rouxi</i>					
<i>Glycera</i> sp. (juv.)					

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## POLYCHAETA (cont.)

*Goniadidae*, unid. (juv.)

*Glycinde armigera*

*Goniada brunnea*

*Goniada littorea*

*Goniada sp.*

*Hesionidae*, unid.

*Hesionidae*, new genus

*Cyptis brevipalpa*

*Gyptis brunnea*

*Ophiodromus pugettensis*

*Lumbrineridae*, unid.

*Lumbrineris ?crassidentata*

*Lumbrineris erecta*

*Lumbrineris ?tetaura*

*Lumbrineris spp.*

680	690	600	670	470
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*Magelonidae*

*Magelona sacculata*

*Maldanidae*, unid. (frag.)

*Asychis sp.*

*Axiothella sp.*

*Praxillella affinis pacifica*

*Praxillella sp.*

*Nephtyidae*, unid.

*Nephtys caecoides*

30

*Nephtys californiensis*

*Nephtys cornuta franciscana*

*Nephtys ferruginea*

10

*Nereidae*, unid. (juv.)

*Neanthes arenaceodentata*

20	10
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*Nereis latescens*

*Nereis procura*

10	10
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*Nereis sp.* (juv.)

?*Perinereis monterea*

*Platynereis bicanaliculata*

*Onuphidae*, unid. (juv.)

*Diopatra ornata*

*Diopatra splendidissima*

*Diopatra sp.* (juv.)

*Opheliidae*

*Armandia bioculata*

10

*Polyopthalmus pictus*

*Orbiniidae*

*Haploscoloplos elongatus*

450	690	790	340	310
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*Naineris dendritica*

*Scoloplos acmeceps*

*Oweniidae*

*Owenia collaris*

*Paraonidae*

*Acesta catherinae*

*Acesta horikoshii*

*Paraonella platybranchia*

(=Paraonides platybranchia)

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## POLYCHAETA (cont.)

## Pectinariidae

*Pectinaria californiensis*  
(=*P. c. newportensis*)

## Phyllodocidae, unid.

*Anaitides nr. pcpilosa*

*Anaitides sp.* (juv.)

*Eteone californica*

*Eteone dilatae*

*Eteone sp.*

*Eulalia aviculiseta*

*Eulalia ?myriacyclum*

*Eulalia quadrioculata*

*Eulalia sp.* (juv.)

*Eumida bifoliata*

*Eumida sanguinea*

?*Genistyllis castanea*

*Hesionura coineaui difficilis*

*Phyllodoce sp.*

## Pilaridae

*Ancistrosyllis hamata*

*Sigambra tentaculata*

## Polynoidae, unid. (frag.)

*Halosydnia johnsoni*

10

*Halosydnia sp.*

*Harmothoe ?crassicirrata*

*Harmothoe hirsuta*

*Harmothoe imbricata*

*Harmothoe priops*

*Harmothoe scriptoria*

*Harmothoe sp.*

*Lepidonotus ?equamatus*

## Sabellariidae

*Sabellaria cementarium*

## Sabellidae, unid.

*Chone ecaudata*

*Chone sp.*

*Euchone limnicola*

*Megalomma pigmentum*

*Myricola ?infundibulum*

?*Potamilla sp.*

## Scalabregmidae

*Scalabregma inflatum*

## Serpulidae

*Eupomatus gracilis*

*Hydroides pacifica*

70

180

280

## Sigalionidae

*Pholoe glabra*

*Sthenelanella uniformis*

*Sthenelais verruculosa*

## Spionidae, unid.

*Boccardia sp.*

*Boccardiella hamata*

(=*Boccardia hamata*)

*Laonice cirrata*

30

40

90

10

10

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<b>POLYCHAETA (cont.)</b>					
<i>Spionidae, unid. (cont.)</i>					
<i>Paraprionospio pinnata</i>					
<i>Polydora ligni</i>	210	250	550	150	190
<i>Polydora socialis</i>					
<i>Polydora sp.</i>					
<i>Prionospio cirrijera</i>	10		10		30
<i>Prionospio heterobranchia</i>	570	520	140	540	750
( <i>P. h. newportensis</i> )					
<i>Prionospio pygmaeus</i>					
<i>Prionospio sp.</i>					50
<i>Pseudopolydora paucibranchiata</i>	290	580	4930	2050	1170
<i>Rhynchospio ?arenicola</i>					
<i>Rhynchospio sp.</i>					
<i>Scolelepis acuta</i>	180	90	60		280
( <i>Nerinides acuta</i> )					
<i>Spio ?filicornis</i>					
<i>Spio maculata</i>					
( <i>Nerinides maculata</i> )					
<i>Spiophanes missionensis</i>					
<i>Streblospio benedicti</i>	190	220	480	2200	580
<i>Spirorbidae</i>					
<i>Janua brasiliensis</i>					
<i>Pileolaria pseudomilitaris</i>					
<i>Syllidae, unid.</i>					
<i>Autolytus sp.</i>					
<i>Brania sp.</i>					
<i>Eusyllis sp.</i>					
<i>Exogone gemmifera</i>				20	
<i>Exogone lourei</i>					
<i>Exogone verugera</i>					
<i>Exogone sp.</i>					
<i>Odontosyllis phosphorea</i>					
<i>Sphaerosyllis californiensis</i>					
<i>Sphaerosyllis sp.</i>					
<i>Syllides sp.</i>					
<i>?Syllis sp.</i>					
<i>Typosyllis ?hyalina</i>	40				
<i>Typosyllis sp.</i>					
<i>Terebellidae, unid.</i>					
<i>Amaeana occidentalis</i>	20				
<i>Pista fasciata</i>					
<i>Pista ?disjuncta</i>					
<i>Pista sp. (juv.)</i>					
<i>Streblosoma craesibranchia</i>					

**ARTHROPODA--CRUSTACEA**

<b>Amphipoda</b>				
<i>Caprellidea, unid.</i>				
<i>Gammaridea, unid.</i>	10			10
<i>Copepoda</i>				
<i>Calanoida, unid.</i>				
<i>Cyclopoida, unid.</i>				
<i>Clausidium vancouverense</i>	50		10	
<i>Harpacticoida, unid.</i>				

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## ARTHROPODA CRUSTACEA (cont.)

## Cumacea, unid.

*Cycloaspis* sp.*Diastylis* sp.*Diastylopis tenuis**Oxyurostylus pacifica*

## Decapoda

Decapod zoea larvae

*Anomura*

Paguridae

*Pagurus* sp.

Brachyura

Canceridae

*Cancer anthonyi**Cancer gracilis**Cancer* sp. (juv.)

Grapsidae

*Hemigrapsus oregonensis*

10

*Hemigrapsus* sp. (juv.)

Majidae

*Pyromaia tuberculata*

Pinnotheridae, unid.

*Opiosthopus transversus**Pinnixa franciscana**Pinnixa* sp.*Scleroplatx granulata*

Caridea

Alpheidae, unid.

*Alpheus californiensis**Alpheus equidactylus**Betaeus* sp. (frag.)

Palaemonidae

*Palaemonella holmesi*

Macrura

Callianassidea

*Callianassa* sp.

10

*Upogebia* sp.

20

10

Isopoda, unid.

*Edotea* sp.*Limnoria* sp.*Munna* sp.

Mysidacea, unid.

130

Nebaliacea, unid.

Ostracoda, unid.

10

*Cylindroleberidinæ*, unid.*Philomedes* sp.*Rutiderma rostrata*

Tanaidacea, unid.

*Anatanais normani**Leptochelia* sp.

Thoracica

*Balanus pacificus*

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## ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Thoracica (cont.)

- Balanus tintinnabulum californicus*
- Balanus trigonus*
- Balanus* sp.

## ARTHROPODA--INSECTA

Chironomidae, larvae

*Paracladius alaskensis* (larvae)

## ARTHROPODA--PYCNOGONIDA

- Anoplodactylus erectus*
- Callipallene californiensis*
- Pallenidae*, unid.
- Tantystylum intermedium*

## ASCHELMINTHES

Nematoda, unid.

## BRACHIOPODA

*Glottidia albida*

## BRYOZOA (=ECTOPROCTA)

- Bowerbankia gracilis*
- Bugula neritina*
- Bugula stolonifera*  
(=*Bugula californica*)
- Celleporaria bromnea*
- Cryptosula pallasiana*
- Schizoporella unicornis*
- Watersipora arcuata*
- Zoobotryon verticillatum*

## CHORDATA

## Cephalochordata

*Branchiostoma californiense*

## Osteichthys

## Gobiesocidae

*Gobiesox rhessodon*

## Gobieidae, unid.

## Gobieidae, larvae

*Clevelandia ios*

10

10

10

*Ilypnus gilberti*

10

10

10

*Lepidogobius lepidus*

## Urochordata

## Ascidacea, unid.

*Botryllus* sp.*Ciona intestinalis**Mogula pugetensis**Styela clava**Styela plicata*

10

## CNIDARIA (=COELENTERATA)

## Anthozoa

## Actinaria, unid.

*Diadumene* sp.

10

*Edwardsia californica**Edwardsia nr. sippunculooides**Edwardsia* sp. (juv.)

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## CNIDARIA (Cont.)

## Anthozoa

- Actinaria, unid.
- Edwardsiidae, unid.
- Mesacmaea sp. A*
- Ceriantharia, unid.
- Hydrozoa--Hydroida
  - Aglaophenia diversidentata*
  - Aglaophenia nr. pluma*
  - Corymorphia curata*

## ECHINODERMATA

- Echinoidea, unid. (juv.)
- Strongylocentrotus purpuratus*
- Holothuroidea, unid.
- Ophiuroidea, unid. (juv.)

## ECHURA

- Urechis caupo*

## HEMICHORDATA

- Enteropneusta*, unid.

## MOLLUSCA--Gastropoda, unid. (juv.)

## Gastropoda--Ophistobranchia

## Cephalaspidea, unid.

- Acteocina harpa*
- Acteocina inculta*
- Aglaja sp.*
- Bulla gouldiana*
- Rictaxis punctocaulatus*
- Sulcoretusa sp.*
- Woodbridgea sp.*

20	180	620	1110
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## Nudibranchia, unid.

- Acanthodoris sp.*
- Trinchesia sp.*

## Pyramidellida

- Odostomia sp.*

## Gastropoda--Prosobranchia

## Mesogastropoda

## Caecidae

- Caecum sp.*
- Furtulum sp.*
- ?*Micranellium sp.*

## Calyptraeidae

- Crepidula dorsata*
- (=*Crepidatella lingulata*)

40

- Crepidula onyx*
- Crepidula preforsans*
- Crepidula sp. (juv.)*

## Lamellariidae

- Lamellaria sharonae*

## Naticidae

- Neverita reclusiana*
- Sinum sp.*

## Vitrinellidae

- Vitrinella oldroydi*

HARBORS ENVIRONMENTAL PROJECTS BENTHIC DATA	B319	STATION MDR 6				
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MOLLUSCA (cont.)						
Gastropoda--Prosobranchia (cont.)						
Neogastropoda						
Columbellidae						
<i>Mitrella carinata</i>						
<i>Mitrella sp.</i>						
Muricidae						
<i>Pteropurpura festiva</i>						
Nassariidae						
<i>Nassarius mendicus</i>						
<i>Nassarius perpinguis</i>						
<i>Nassarius sp.</i>						
Olividae						
<i>Olivella baetica</i>			10			
Pyramidellidae						
<i>Turbonilla sp.</i>						
Turridae						
<i>Kurtziella plumbea</i>						
Pelecypoda, unid. (juv.)			40			
Cardiidae						
<i>Laevidarium substriatum</i>						
Cooperellidae						
<i>Cooperella subdiaphana</i>						
Donacidae						
<i>Donax gouldii</i>						
Erycinidae						
<i>Lasaea subviridis</i>						
Hiatellidae						
<i>Hiatella arctica</i>						
Leptonidae						
<i>"Lepton meroeum"</i>						
Lucinidae						
<i>Parvilucina tenuisculpta</i>						
( <i>=Parvilucina sp.</i> )						
Lyonsiidae						
<i>Lyonsia californica</i>						
Mactridae, unid. (juv.)						
<i>Mactra californica</i>						
<i>Mactra sp.</i>						
<i>Spisula catilliformis</i>						
<i>Spisula sp.</i>						
<i>Tresus nuttalli</i>						
Montacutidae						
<i>Orobitella sp.</i>						
<i>Mysella pedroana</i>						
<i>Mysella sp.</i>						
Myidae						
<i>Cryptomya californica</i>			20		10	
Mytilidae, unid. (juv.)						
<i>Amygdalum sp.</i>						
<i>Modiolus sp.</i>						
<i>Mytilus edulis</i>						
Ostreidae						
<i>Ostrea lurida</i>						
Pectinidae						
<i>Leptopecten latiauratus</i>						

## HARBORS ENVIRONMENTAL PROJECTS

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## MOLLUSCA (cont.)

## Pelecypoda (cont.)

## Petricolidae

*Petricola tellimyalis*

10

*Petricola sp.*

20

10

## Semelidae

*Cumingia californica*

40

*Theora lubrica*

## Solecurtidae

*Tagelus subteres*

10

## Solenidae

*Ensis myrae**Siliqua lucida**Solen sp. (juv.)*

## Tellinidae

*Leporimetis obesa*

10

*Macoma acolasta**Macoma carlottensis**Macoma nasuta*

60

10

*Macoma sp. (juv.)**Tellina modesta**Tellina sp. (juv.)*

10

## Thyasiridae

*Axinopsida serricata**Thyasira flexuosa*

## Veneridae

*Chione ?indatella**Chione sp. (juv.)**Protothaca staminea**Protothaca sp.*

280

200

50

*Saxidomus nuttalli**Saxidomus sp. (juv.)*

70

*Polyplacophora, unid.**NEMERTEA, unid.*

10

30

20

*PHORONIDA, unid.**Phoronis pallida**Phoronis sp.**Phoronopsis sp.**PLATYHELMINTHES**Polycladida, unid.*

10

*PROTOZOA**Foraminifera**"Rosalina-like" forams**SIPUNCULIDA, unid.*

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<b>ANNELIDA</b>					
OLIGOCHAETA, unid.					
Tubificidae	50		830	760	200
<i>Peloscolex gabriellae</i>					
POLYCHAETA					
Ampharetidae					
<i>Ampharete labrops</i>					
<i>Amphicteis scaphobranchiata</i>					
<i>Melinna oculata</i>					
Arabellidae, unid. (juv.)					
Capitellidae					
<i>Capitella capitata</i>	250		910	160	460
<i>Mediomastus acutus</i>					
<i>Mediomastus californiensis</i>	570	220	470	210	110
(= <i>Capitita ambiseta</i> )					
<i>Notomastus tenuis</i>	10		10	20	50
Chaetopteridae, unid. (frag.)	10				
<i>Spiochaetopterus costarum</i>					
Chrysopetalidae					
<i>Chrysopetalum occidentale</i>					
<i>Paleanotus bellis</i>					
Cirratulidae, unid.					
<i>Caulieriella alata</i>					
<i>Caulieriella bioculata</i>					
<i>Caulieriella hamata</i>					
<i>Caulieriella sp.</i>					
<i>Chaetozone corona</i>	10	30	50	10	
<i>Chaetozone setosa</i>					
<i>Chaetozone sp.</i>					
<i>Cirratulus cirratus</i>					
<i>Cirriformia luxuriosa</i>	20				
<i>Cirriformia sp (juv.)</i>					
<i>Tharyx nr. tessellata</i>	10				
<i>Tharyx spp.</i>	180	680	720	260	110
Cossuridae					
<i>Cossura candida</i>					
<i>Cossura pygodactylata</i>	4780	40	6250	17080	80
Ctenodrilidae					
<i>Ctenodrilus serratus</i>					
Dorvilleidae, unid.					
<i>Ophryotrocha puerilis</i>					
<i>Protodorvillea gracilis</i>					
<i>Schistomerings longicornis</i>	40	10	430	50	280
Flabelligeridae, unid.	10		10		
<i>Pherusa capulata</i>					
<i>Pherusa sp.</i>					
Glyceridae					
<i>Glycera americana</i>			10		
<i>Glycera capitata</i>					
<i>Glycera convoluta</i>					
<i>Glycera rouxi</i>					
<i>Glycera sp. (juv.)</i>					

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## POLYCHAETA (cont.)

*Goniadidae*, unid. (juv.)*Glycinde armigera**Goniada brunnea**Goniada littorea**Goniada sp.**Hesionidae*, unid.*Hesionidae*, new genus*Gyptis brevipalpa**Gyptis brunnea**Ophiodromus pugettensis*

10

*Lumbrineridae*, unid.*Lumbrineris ?crassidentata**Lumbrineris erecta**Lumbrineris ?tetaura**Lumbrineris spp.*

360	100	490	370	220
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*Magelonidae**Magelona sacculata**Maldanidae*, unid. (frag.)*Asychis sp.**Axiothella sp.**Praxillella affinis pacifica**Praxillella sp.**Nephtyidae*, unid.*Nephtys caecoides**Nephtys californiensis**Nephtys cornuta franciscana**Nephtys ferruginea*

20	10
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*Nereidae*, unid. (juv.)*Neanthes arenaceodentata**Nereis latescens**Nereis procera**Nereis sp.* (juv.)*?Perinereis monterea**Platynereis bicanaliculata**Onuphidae*, unid. (juv.)*Diopatra ornata**Diopatra splendidissima**Diopatra sp.* (juv.)*Opheliidae**Armandia bioculata*

10

*Polyopthalmus pictus**Orbiniidae**Haploscloplos elongatus*

30	30	90	10
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*Naineris dendritica**Scoloplos acmeceps**Oweniidae**Owenia collaris**Paraonidae**Acesta catherinae**Acesta horikoshii**Paraonella platybranchia**(=Paraonides platybranchia)*

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## POLYCHAETA (cont.)

## Pectinariidae

*Pectinaria californiensis*  
(=*P. c. newportensis*)

## Phyllodocidae, unid.

*Anaitides nr. papillosa*

*Anaitides* sp. (juv.)

*Eteone californica*

*Eteone dilatata*

*Eteone* sp.

*Eulalia aviculifera*

*Eulalia ?myriacyclum*

*Eulalia quadrioculata*

*Eulalia* sp. (juv.)

*Eunida bifoliata*

*Eunida sanguinea*

?*Genetyllis castanea*

*Hesionura coineauyi difficilis*

*Phyllocoete* sp.

## Pilargidae

*Ancistrosyllis hamata*

*Sigambla tentaculata*

## Polynoidae, unid. (frag.)

*Halosydna johnsoni*

*Halosydna* sp.

*Harmothoe ?crassicirrata*

*Harmothoe hirsuta*

*Harmothoe imbricata*

*Harmothoe priops*

*Harmothoe scriptoria*

*Harmothoe* sp.

*Lepidonotus ?squamus*

## Sabellariidae

*Sabellaria cementarium*

## Sabellidae, unid.

*Chone ecaudata*

*Chone* sp.

*Euchone limnicola*

*Megalomma pigmentum*

*Myxicola ?infundibulum*

?*Potamilla* sp.

## Scalabregmidae

*Scalabregma inflatum*

## Serpulidae

*Eupomatus gracilis*

*Hydroides pacifica*

## Sigalionidae

*Pholoe glabra*

*Sthenelanella uniformis*

*Sthenelais verruculosa*

## Spionidae, unid.

*Boccardia* sp.

*Boccardiella hamata*

(=*Boccardia hamata*)

*Laonice cirrata*

	10	30	8640	460
	10	30		
	10	30	10	20

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<b>POLYCHAETA (cont.)</b>					
<i>Spionidae, unid. (cont.)</i>					
<i>Paraprionospio pinnata</i>					
<i>Polydora ligni</i>	60		250	1740	210
<i>Polydora socialis</i>					
<i>Polydora sp.</i>		10			
<i>Prionospio cirrijera</i>	30	290	100		20
<i>Prionospio heterobranchia</i>	10		30		
( <i>=P.h. newportensis</i> )					
<i>Prionospio pygmaeus</i>				10	
<i>Prionospio sp.</i>					
<i>Pseudopolydora paucibranchiata</i>	50	20	790	200	200
<i>Rhynchospi?arenicola</i>					
<i>Rhynchospi? sp.</i>					
<i>Scolelepis acuta</i>	60	10	70		50
( <i>=Nerinides acuta</i> )					
<i>Spi?filicornis</i>					
<i>Spi?maculata</i>					
( <i>=Nerinides maculata</i> )					
<i>Spiophanes missionensis</i>	10		20		
<i>Streblospi? benedicti</i>	3340	160	12270	2250	2120
<i>Spirorbidae</i>					
<i>Janua brasiliensis</i>					
<i>Pileolaria pseudomilitaris</i>					
<i>Syllidae, unid.</i>					
<i>Autolytus sp.</i>					
<i>Brania sp.</i>		10	20		
<i>Eusyllis sp.</i>					
<i>Exogone gemmifera</i>					
<i>Exogone lourei</i>	10				
<i>Exogone verugera</i>					
<i>Exogone sp.</i>					
<i>Odontosyllis phosphorea</i>					
<i>Sphaerosyllis californiensis</i>					
<i>Sphaerosyllis sp.</i>					
<i>Syllides sp.</i>					
<i>?Syllis sp.</i>					
<i>Typo?yllis ?hyalina</i>					
<i>Typo?yllis sp.</i>				40	
<i>Terebellidae, unid.</i>					
<i>Amaeana occidentalis</i>			20		
<i>Pista fasciata</i>					
<i>Pista ?disjuncta</i>					
<i>Pista sp. (juv.)</i>					
<i>Streblosoma crassibranchia</i>		10			
<b>ARTHROPODA--CRUSTACEA</b>					
<i>Amphipoda</i>					
<i>Caprellidea, unid.</i>			10		
<i>Gammaridea, unid.</i>			40	510	10
<i>Copepoda</i>					
<i>Calanoida, unid.</i>					
<i>Cyclopoida, unid.</i>	20				
<i>Clausidium vancouverense</i>					
<i>Harpacticoida, unid.</i>					

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## ARTHROPODA CRUSTACEA (cont.)

Cumacea, unid.					
<i>Cyclaspis</i> sp.					
<i>Diastylis</i> sp.					
<i>Diastylopsis tenuis</i>					
<i>Oxyurostylus pacifica</i>					10
Decapoda					
Decapod zoea larvae					
Anomura					
<i>Paguridae</i>					
<i>Pagurus</i> sp.					
Brachyura					
<i>Canceridae</i>					
<i>Cancer anthonyi</i>					
<i>Cancer gracilis</i>					
<i>Cancer</i> sp. (juv.)					
<i>Grapsidae</i>					
<i>Hemigrapsus oregonensis</i>					10
<i>Hemigrapsus</i> sp. (juv.)					
<i>Majidae</i>					
<i>Pyromnia tuberculata</i>					
<i>Pinnotheridae</i> , unid.					
<i>Opisthopus transversus</i>					10
<i>Pinnixa franciscana</i>					
<i>Pinnixa</i> sp.					
<i>Scleroplax granulata</i>					
<i>Caridea</i>					
<i>Alpheidae</i> , unid.					
<i>Alpheus californiensis</i>					
<i>Alpheus equidactylus</i>					
<i>Betaeus</i> sp. (frag.)					
<i>Palaemonidae</i>					
<i>Palaemonella holmesi</i>					
<i>Macrura</i>					
<i>Callianassidea</i>					
<i>Callianassa</i> sp.		20			
<i>Upogebia</i> sp.					
<i>Isopoda</i> , unid.				70	30
<i>Edotea</i> sp.					
<i>Limnoria</i> sp.					
<i>Mona</i> sp.					
<i>Mysidacea</i> , unid.			150		
<i>Nebaliacea</i> , unid.					
<i>Ostracoda</i> , unid.					
<i>Cylindroleberidinae</i> , unid.					
<i>Philomedes</i> sp.					
<i>Rutiderma rostrata</i>					
<i>Tanaidacea</i> , unid.			20		
<i>Anatanais normani</i>					
<i>Leptochelia</i> sp.					
<i>Thoracica</i>					
<i>Balanus pacificus</i>					

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## ARTHROPODA CRUSTACEA (cont.)

## Decapoda (cont.)

## Thoracica (cont.)

- Balanus tintinnabulum californicus*
- Balanus trigonus*
- Balanus sp.*

## ARTHROPODA--INSECTA

## Chironomidae, larvae

- Paraclunio alaskensis* (larvae)

## ARTHROPODA--PYCNOGONIDA

- Anoplodactylus erectus*
- Callipallene californiensis*
- Pallenidae, unid.*
- Tantystylum intermedium*

## ASCHELMINTHES

## Nematoda, unid.

## BRACHIOPODA

- Glottidia albida*

## BRYOZOA (=ECTOPROCTA)

- Bowerbankia gracilis*
- Bugula neritina*
- Bugula stolonifera*  
(=*Bugula californica*)
- Celleporaria brunnea*
- Cryptosula pallasiana*
- Schizoporella unicornis*
- Watersipora arcuata*
- Zoobotryon verticillatum*

1 col.

## CHORDATA

## Cephalochordata

- Branchiostoma californiense*

## Osteichthys

- Gobiesocidae
- Gobiesox rheissodon*
- Gobiidae, unid.
- Gobiidae, larvae
- Clevelandia ios*
- Ilypnus gilberti*
- Lepidogobius lepidus*

30	15	70
----	----	----

10

30

## Urochordata

- Ascidacea, unid.
- Botryllus sp.*
- Ciona intestinalis*
- Mogula pugetensis*
- Styela clava*
- Styela plicata*

10

## CNIDARIA (=COELENTERATA)

## Anthozoa

- Actinaria, unid.

*Diadumene sp.**Edwardsia californica**Edwardsia nr. sippunculoides**Edwardsia sp. (juv.)*

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## CNIDARIA (Cont.)

## Anthozoa

## Actinaria, unid.

*Edwardsiidae*, unid.*Mesacmaea sp. A*

## Ceriantharia, unid.

## Hydrozoa--Hydroida

*Aglaophenia diversidentata**Aglaophenia nr. pluma**Corymorphia curata*

## ECHINODERMATA

## Echinoidea, unid. (juv.)

*Strongylocentrotus purpuratus*

## Holothuroidea, unid.

## Ophiuroidea, unid. (juv.)

## ECHURA

*Urechis caupo*

## HEMICORDATA

## Enteropneusta, unid.

## MOLLUSCA--Gastropoda, unid. (juv.)

10

## Gastropoda--Ophistobranchia

## Cephalaspidea, unid.

*Acteocina harpa*

40

*Acteocina inculta*

50

30

10

*Aglaja sp.**Bulla gouldiana**Rictaxis punctocaulatus**Sulcoretusa sp.**Woodbridgea sp.*

## Nudibranchia, unid.

*Acanthodoris sp.**Trinchesia sp.*

## Pyramidellida

*Odostomia sp.*

## Gastropoda--Prosobranchia

## Mesogastropoda

## Caecidae

*Caecum sp.**Furtulum sp.**?Micranellium sp.*

## Calyptraeidae

*Crepidula dorsata**(=Crepidipatella lingulata)**Crepidula onyx**Crepidula perforans**Crepidula sp. (juv.)*

## Lamelliariidae

*Lamellaria sharonae*

## Naticidae

*Neverita reclusiana**Sinum sp.*

## Vitrinellidae

*Vitrinella oldroydi*

10

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## MOLLUSCA (cont.)

## Gastropoda--Prosobranchia (cont.)

Neogastropoda

Columbellidae

*Mitrella carinata**Mitrella sp.*

Muricidae

*Pteropurpura festiva*

Nassariidae

*Nassarius mendicus**Nassarius perpinguis**Nassarius sp.*

Olividae

*Olivella baetica*

Pyramidellidae

*Turbanilla sp.*

Turridae

*Kurtziella plumbea*

Pelecypoda, unid. (juv.)

10

50

10

Cardiidae

*Laevicardium substriatum*

Cooperellidae

*Cooperella subdiaphana*

Donacidae

*Donax gouldii*

Erycinidae

*Lasaea subviridis*

Hiatellidae

*Hiatella arctica*

Leptonidae

*"Lepton merceum"*

Lucinidae

*Parvilucina tenuisculpta**(=Parvilucina sp.)*

Lyonsiidae

*Lyonsia californica*

Mactridae, unid. (juv.)

*Mactra californica**Mactra sp.**Spisula catilliformis**Spisula sp.**Tresus nuttalli*

Montacutidae

*Orobitella sp.**Mysella pedroana**Mysella sp.*

Myidae

*Cryptomya californica*

Mytellidae, unid. (juv.)

*Amygdalum sp.**Modiolus sp.**Mytilus edulis*

Ostreidae

*Ostrea lurida*

Pectinidae

*Leptopecten latiauratus*

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MOLLUSCA (cont.)					
Pelecypoda (cont.)					
Petricolidae					
<i>Petricola tellimyalis</i>				60	
<i>Petricola</i> sp.			10		
Semelidae					
<i>Curingia californica</i>					
<i>Theora lubrica</i>	10				
Solecurtidae					
<i>Tagelus subteres</i>	80				10
Solenidae					
<i>Ensis myrae</i>					
<i>Siliqua lucida</i>					
<i>Solen</i> sp. (juv.)					
Tellinidae					
<i>Leporimetis obesa</i>					
<i>Macoma acolasta</i>					
<i>Macoma carlottensis</i>					
<i>Macoma nasuta</i>	70				
<i>Macoma</i> sp. (juv.)			70		10
<i>Tellina modesta</i>					
<i>Tellina</i> sp. (juv.)					
Thyasiridae					
<i>Aixinopsida serricata</i>					
<i>Thyasira flexuosa</i>					
Veneridae					
<i>Chione ?undatella</i>					
<i>Chione</i> sp. (juv.)					
<i>Protothaca staminea</i>	10				
<i>Protothaca</i> sp.	30		100	20	20
<i>Saxidomus nuttalli</i>					
<i>Saxidomus</i> sp. (juv.)					
Polyplacophora, unid.					
NEMERTEA, unid.		10	50	70	
PHORONIDA, unid.					
<i>Phoronis pallida</i>					
<i>Phoronis</i> sp.					
<i>Phoronopsis</i> sp.					
PLATYHELMINTHES					
<i>Polycladia</i> , unid.			10		
PROTOZOA					
Foraminifera					
<i>"Rosalina-like" forams</i>					
SIPUNCULIDA, unid.					

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## ANNELIDA

<i>OLIGOCHAETA</i> , unid.	10	80	50	10	10
<i>Tubificidae</i>					
<i>Peloscolex gabriellae</i>					
<i>POLYCHAETA</i>					
<i>Ampharetidae</i>					
<i>Ampharete labrops</i>					
<i>Amphicteis scaphobranchiata</i>					
<i>Melinna oculata</i>					
<i>Arabellidae</i> , unid. (juv.)			10		
<i>Capitellidae</i>					
<i>Capitella capitata</i>	760	400	90	650	1060
<i>Mediomastus acutus</i>					
<i>Mediomastus californiensis</i>	120	140	140		10
(= <i>Capitita ambiseta</i> )					
<i>Notomastus tenuis</i>					
<i>Chaetopteridae</i> , unid. (frag.)					
<i>Spiochaetopterus costarum</i>					
<i>Chrysopetalidae</i>					
<i>Chrysopetalum occidentale</i>					
<i>Paleanotus bellis</i>					
<i>Cirratulidae</i> , unid.					
<i>Caulieriella alata</i>					
<i>Caulieriella bioculata</i>					
<i>Caulieriella hamata</i>					
<i>Caulieriella</i> sp.					
<i>Chaetozone corona</i>					
<i>Chaetozone setosa</i>					
<i>Chaetozone</i> sp.					
<i>Cirratulus cirratus</i>	50				
<i>Cirriformia luxuriosa</i>		30	120		10
<i>Cirriformia</i> sp. (juv.)					30
<i>Tharyx</i> nr. <i>tesselata</i>					
<i>Tharyx</i> spp.	20	80	230	50	30
<i>Cossuridae</i>					
<i>Cossura candida</i>					
<i>Cossura pygodactylata</i>		140	80	10	
<i>Ctenodrilidae</i>					
<i>Ctenodrilus serratus</i>					
<i>Dorvilleidae</i> , unid.					
<i>Ophryotrocha puerilis</i>					
<i>Protodorvillea gracilis</i>					
<i>Schistomerengos longicornis</i>	40	310	40		10
<i>Flabelligeridae</i> , unid.					
<i>Pherusa capulata</i>					
<i>Pherusa</i> sp.					
<i>Glyceridae</i>					
<i>Glycera americana</i>					
<i>Glycera capitata</i>					
<i>Glycera convoluta</i>					
<i>Glycera rouxi</i>					
<i>Glycera</i> sp. (juv.)					

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POLYCHAETA (cont.)					
Goniadidae, unid. (juv.)					
<i>Glycinde armigera</i>					
<i>Goniada brunnea</i>					
<i>Goniada littorea</i>					
<i>Goniada sp.</i>					
Hesionidae, unid.					
<i>Hesionidae, new genus</i>					
<i>Gyptis brevipalpa</i>					
<i>Gyptis brunnea</i>					
<i>Ophiodromus pugettensis</i>					
Lumbrineridae, unid.					
<i>Lumbrineris ?crassidentata</i>					30
<i>Lumbrineris erecta</i>					
<i>Lumbrineris ?tetaura</i>					
<i>Lumbrineris spp.</i>	130		190		130
Magelonidae					
<i>Magelona sacculata</i>					
Maldanidae, unid. (frag.)					
<i>Asychis sp.</i>					
<i>Axiothella sp.</i>					
<i>Praxillella affinis pacifica</i>					
<i>Praxillella sp.</i>					
Nephtyidae, unid.					
<i>Nephtys caecoides</i>					
<i>Nephtys californiensis</i>					
<i>Nephtys cornuta franciscana</i>					
<i>Nephtys ferruginea</i>					
Nereidae, unid. (juv.)					
<i>Neanthes arenaceodentata</i>					
<i>Nereis latescens</i>					
<i>Nereis procera</i>		10			10
<i>Nereis sp. (juv.)</i>					
<i>?Perinereis monterea</i>					
<i>Platynereis bicanaliculata</i>					
Onuphidae, unid. (juv.)					
<i>Diopatra ornata</i>					
<i>Diopatra splendidissima</i>					
<i>Diopatra sp. (juv.)</i>					
Opheliidae					
<i>Armandia bioculata</i>					
<i>Polyopthalmus pictus</i>					
Orbiniidae					
<i>Haploscoloplos elongatus</i>	400		280		60
<i>Naineris dendritica</i>					10
<i>Scoloplos acmeceps</i>					
Oweniidae					
<i>Owenia collaris</i>					
Paraonidae					
<i>Acesta catherinae</i>					
<i>Acesta horikoshii</i>					
<i>Paraonella platybranchia</i>					
	(=Paraonides platybranchia)				

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## POLYCHAETA (cont.)

## Pectinariidae

*Pectinaria californiensis*  
(=*P. c. newportensis*)

10

## Phyllodocidae, unid.

*Anaitides nr. papillosa**Anaitides sp. (juv.)**Eteone californica**Eteone dilatae**Eteone sp.**Eulalia aviculifera**Eulalia ?myriacyclum**Eulalia quadrioculata**Eulalia sp. (juv.)**Eumida bifoliata**Eumida sanguinea**?Genetyllis castanea**Hesionura coineauai diffcilis**Phyllocoelus sp.*

## Pilargidae

*Ancistrosyllis hamata**Sigambra tentaculata*

## Polynoidae, unid. (frag.)

*Halosydna johnsoni**Halosydna sp.**Harmothoe ?crassicirrata**Harmothoe hirsuta**Harmothoe imbricata**Harmothoe priops**Harmothoe scriptoria**Harmothoe sp.**Lepidonotus ?squamus*

## Sabellariidae

*Sabellaria cementarium*

## Sabellidae, unid.

*Chone ecaudata**Chone sp.**Euchone limnicola**Megalomma pigmentum**Myxicola ?infundibulum**?Potamilla sp.*

## Scalabregmidae

*Scalabregma inflatum*

## Serpulidae

*Eupomatus gracilis**Hydroides pacifica*

## Sigalionidae

*Pholoe glabra**Sthenelanella uniformis**Sthenelais verruculosa*

## Spionidae, unid.

*Boccardia sp.**Boccardiella hamata*(=*Boccardia hamata*)

110 20 10

220

*Laonice cirrata*

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<b>POLYCHAETA (cont.)</b>					
Spionidae, unid. (cont.)					
<i>Parapriionospio pinnata</i>					
<i>Polydora ligni</i>	130	110	140	120	110
<i>Polydora socialis</i>					
<i>Polydora sp.</i>					
<i>Prionospio cirrifera</i>					
<i>Prionospio heterobranchia</i> (=P.h. newportensis)	80	500	80	10	370
<i>Prionospio pygmaeus</i>					
<i>Prionospio sp.</i>					
<i>Pseudopolydora paucibranchiata</i>	250	380	2730	4500.	70
<i>Rhynchospio ?arenicola</i>					
<i>Rhynchospio sp.</i>					
<i>Scolelepis acuta</i> (=Nerinides acuta)	420	270	80	10	150
<i>Spio ?filicornis</i>					
<i>Spio maculata</i> (=Nerinides maculata)					
<i>Spiophanes missionensis</i>					
<i>Streblospio benedicti</i>	1380	250	510		10
<i>Spirorbidae</i>					
<i>Janua brasiliensis</i>					
<i>Pileolaria pseudomilitaris</i>					
<i>Syllidae, unid.</i>					
<i>Autolytus sp.</i>					
<i>Brania sp.</i>					
<i>Eusyllis sp.</i>					
<i>Exogone gemmifera</i>					
<i>Exogone lourei</i>	10		60		110
<i>Exogone verugera</i>		410			
<i>Exogone sp.</i>			10		
<i>Odontosyllis phosphorea</i>					
<i>Sphaerosyllis californiensis</i>					
<i>Sphaerosyllis sp.</i>					
<i>Syllides sp.</i>					
<i>?Syllis sp.</i>					
<i>Typosyllis ?hyalina</i>					
<i>Typosyllis sp.</i>					
<i>Terebellidae, unid.</i>					
<i>Amaeana occidentalis</i>					
<i>Pista fasciata</i>					
<i>Pista ?disjuncta</i>					
<i>Pista sp. (juv.)</i>					
<i>Streblosoma crassibranchia</i>					
<b>ARTHROPODA--CRUSTACEA</b>					
<i>Amphipoda</i>					
<i>Caprellidea, unid.</i>					590
<i>Gammaridea, unid.</i>		20			20
<i>Copepoda</i>					
<i>Calanoida, unid.</i>					
<i>Cyclopoida, unid.</i>					
<i>Clausidium vancouverense</i>					
<i>Harpacticoida, unid.</i>					

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## ARTHROPODA CRUSTACEA (cont.)

Cumacea, unid.

*Cyclaspis* sp.*Diastylis* sp.*Diatylopis tenuis**Oxyurostylus pacifica*

Decapoda

Decapod zoea larvae

Anomura

Paguridae

*Pagurus* sp.

Brachyura

Canceridae

*Cancer anthonyi**Cancer gracilis**Cancer* sp. (juv.)

Grapsidae

*Hemigrapsus oregonensis**Hemigrapsus* sp. (juv.)

Majidae

*Pyromia tuberculata*

Pinnotheridae, unid.

*Opisthopus transversus**Pinnixa franciscana**Pinnixa* sp.*Scleropolar granulata*

Caridea

Alpheidae, unid.

*Alpheus californiensis**Alpheus equidactylus**Betaeus* sp. (frag.)

Palaemonidae

*Palaemonella holmesi*

Macrura

Callianassidae

*Callianassa* sp.*Upogebia* sp.

Isopoda, unid.

*Edotea* sp.*Limnoria* sp.*Munna* sp.

Mysidacea, unid.

10

Nebaliacea, unid.

Ostracoda, unid.

*Cylindroleberidinae*, unid.*Philomedes* sp.*Rutiderma rostrata*

Tanaidacea, unid.

*Anatanais normani**Leptochelia* sp.

Thoracica

*Balanus pacificus*

20

80

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## ARTHROPODA CRUSTACEA (cont.)

## Decapoda (cont.)

## Thoracica (cont.)

- Balanus tintinnabulum californicus*
- Balanus trigonus*
- Balanus* sp.

## ARTHROPODA--INSECTA

## Chironomidae, larvae

- Paraclunio alaskensis* (larvae)

## ARTHROPODA--PYCNOGONIDA

- Anoplodactylus erectus*
- Callipallene californiensis*
- Pallenidae, unid.
- Tantystylum intermedium*

## ASCHELMINTHES

- Nematoda, unid.

## BRACHIOPODA

- Glottidia albida*

## BRYOZOA (=ECTOPROCTA)

- Bowerbankia gracilis*
- Bugula neritina*
- Bugula stolonifera*  
(=*Bugula californica*)
- Celleporaria brunnea*
- Cryptosula pallasiana*
- Schizoporella unicornis*
- Watersipora arcuata*
- Zoobotryon verticillatum*

## CHORDATA

## Cephalochordata

- Branchiostoma californiense*

## Osteichthys

## Gobiesocidae

- Gobiesox rhessodon*

## Gobieidae, unid.

## Gobieidae, larvae

- Clevelandia ios*

- Ilypnus gilberti*

- Lepidogobius lepidus*

10

10

10

## Urochordata

## Ascidacea, unid.

- Botryllus* sp.

- Ciona intestinalis*

- Mogula pugetiensis*

- Styela clava*

- Styela plicata*

10

10

10

## CNIDARIA (=COELENTERATA)

## Anthozoa

## Actinaria, unid.

- Diadumene* sp.

- Edwardsia californica*

- Edwardsia nr. sippunculoides*

- Edwardsia* sp. (juv.)

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## CNIDARIA (Cont.)

## Anthozoa

Actinaria, unid.

*Edwardsiidae*, unid.

20

*Mesacmaea sp. A*

Ceriantharia, unid.

## Hydrozoa--Hydroida

*Aglaophenia diversidentata**Aglaophenia nr. pluma**Corymorphia aurata*

## ECHINODERMATA

Echinoidea, unid. (juv.)

*Strongylocentrotus purpuratus*

Holothuroidea, unid.

Ophiuroidea, unid. (juv.)

## ECHURA

*Urechis caupo*

## HEMICORDATA

*Enteropneusta*, unid.

## MOLLUSCA--Gastropoda, unid. (juv.)

Gastropoda--Ophistobranchia

Cephalaspidea, unid.

*Acteocina harpa**Acteocina inculta*

1340 30 150 20

*Aglaja sp.**Bulla gouldiana**Rictaxis punctocaulatus**Sulcoretusa sp.**Woodbridgea sp.*

Nudibranchia, unid.

*Acanthodoris sp.**Trinchesia sp.*

Pyramidellida

*Odostomia sp.*

Gastropoda--Prosobranchia

Mesogastropoda

Caecidae

*Caecum sp.**Fartulum sp.**?Micranellium sp.*

Calyptraeidae

*Crepidula dorsata*(*=Crepidatella lingulata*)*Crepidula onyx**Crepidula preforans**Crepidula sp. (juv.)*

Lamellariidae

*Lamellaria sharonae*

Naticidae

*Neverita reclusiana**Sinum sp.*

Vitrinellidae

*Vitrinella oldroydi*

## HARBORS ENVIRONMENTAL PROJECTS

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## BENTHIC DATA

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## MOLLUSCA (cont.)

## Gastropoda--Prosobranchia (cont.)

## Neogastropoda

## Columbellidae

*Mitrella carinata**Mitrella sp.*

## Muricidae

*Pteropurpura festiva*

## Nassariidae

*Nassarius mendicus**Nassarius perpinguis**Nassarius sp.*

## Olividae

*Olivella baetica*

## Pyramidellidae

*Turbanilla sp.*

## Turridae

*Kurtziella plumbea*

## Pelecypoda, unid. (juv.)

10

## Cardiidae

*Laevicardium substriatum*

## Cooperellidae

*Cooperella subdiaphana*

## Donacidae

*Donax gouldii*

## Erycinidae

*Lasaea subviridis*

## Hiatellidae

*Hiatella arctica*

## Leptonidae

*"Lepton merceum"*

## Lucinidae

*Parvilucina tenuisculpta**(=Parvilucina sp.)*

## Lyonsiidae

*Lyonsia californica*

## Mactridae, unid. (juv.)

*Mactra californica**Mactra sp.**Spisula catilliformis**Spisula sp.**Tresus nuttalli*

## Montacutidae

*Orobitella sp.**Mysella pedroana**Mysella sp.*

## Myidae

*Cryptomya californica*

## Mytellidae, unid. (juv.)

*Amygdalum sp.**Modiolus sp.**Mytilus edulis*

## Ostreidae

*Ostrea lurida*

## Pectinidae

*Leptopecten latiauratus*

## HARBORS ENVIRONMENTAL PROJECTS

## BENTHIC DATA

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STATION MDR 8

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## MOLLUSCA (cont.)

## Pelecypoda (cont.)

## Petricolidae

*Petricola tellinialis*

30

*Petricola sp.*

10

## Semelidae

*Cumingia californica**Theora lubrica*

## Solecurtidae

*Tagelus subteres*

## Solenidae

*Ensis myrae**Siliqua lucida**Solen sp. (juv.)*

## Tellinidae

*Leporimetis obesa**Macoma acolasta**Macoma carlottensis**Macoma nasuta*

10

*Macoma sp. (juv.)*

10

*Tellina modesta**Tellina sp. (juv.)*

## Thyasiridae

*Axinopsida serricata**Thyasira flexuosa*

## Veneridae

*Chione ?undatella**Chione sp. (juv.)*

10

*Protothaca staminea**Protothaca sp.*

20

20

*Saxidomus nuttalli**Saxidomus sp. (juv.)*

Polyplacophora, unid.

NEMERTEA, unid.

PHORONIDA, unid.

*Phoronis pallida**Phoronis sp.**Phoronopsis sp.*

PLATYHELMINTHES

*Polycladia*, unid.

PROTOZOA

Foraminifera

*"Rosalina-like" forams*

SIPUNCULIDA, unid.

HARBORS ENVIRONMENTAL PROJECTS		STATION MDR 9				
BENTHIC DATA		28 Oct 1976	17 Mar 1977	23 Jun 1977	16 Sep 1977	28 Dec 1977
ANNELEIDA						
OLIGOCHAETA, unid.		90	490	520	450	40
Tubificidae						
<i>Peloscolex gabriellae</i>						
POLYCHAETA						
Ampharetidae						
<i>Ampharete labrops</i>						
<i>Amphicteis scaphobranchiata</i>						
<i>Melinna oculata</i>						
Arabellidae, unid. (juv.)						
Capitellidae						
<i>Capitella capitata</i>		280	4180	1240	250	3330
<i>Mediomastus acutus</i>						
<i>Mediomastus californiensis</i>		160	430	400	40	140
(= <i>Capitita ambiseta</i> )						
<i>Notomastus tenuis</i>		10	20	30	20	100
Chaetopteridae, unid. (frag.)						
<i>Spiochaetopterus costarum</i>						
Chrysopetalidae						
<i>Chrysopetalum occidentale</i>						
<i>Paleanotus bellis</i>		10				
Cirratulidae, unid.			30			
<i>Caulieriella alata</i>						
<i>Caulieriella bioculata</i>						
<i>Caulieriella hamata</i>						
<i>Caulieriella sp.</i>						
<i>Chaetozone corona</i>		10				10
<i>Chaetozone setosa</i>						20
<i>Chaetozone sp.</i>						
<i>Cirratulus cirratus</i>						
<i>Cirriformia luxuriosa</i>						
<i>Cirriformia sp (juv.)</i>						10
<i>Tharyx nr. tessellata</i>						
<i>Tharyx spp.</i>		790	160	170	190	140
Cossuridae						
<i>Cossura candida</i>				20		
<i>Cossura pygodactylata</i>		540	250	1100	90	130
Ctenodrilidae						
<i>Ctenodrilus serratus</i>						
Dorvilleidae, unid.		30				
<i>Ophryotrocha puerilis</i>						
<i>Protodorvillea gracilis</i>						
<i>Schistomerings longicornis</i>		10	60		110	30
Flabelligeridae, unid.						
<i>Pherusa capulata</i>						
<i>Pherusa sp.</i>						
Glyceridae						
<i>Glycera americana</i>		10	10	10		
<i>Glycera capitata</i>						
<i>Glycera convoluta</i>						
<i>Glycera rouxi</i>						
<i>Glycera sp. (juv.)</i>						

HARBORS ENVIRONMENTAL PROJECTS  
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POLYCHAETA (cont.)					
Goniadidae, unid. (juv.)					
<i>Glycinde armigera</i>					
<i>Goniada brunnea</i>					
<i>Goniada littorea</i>					
<i>Goniada sp.</i>					
Hesionidae, unid.					
<i>Hesionidae, new genus</i>					
<i>Gyptis brevipalpa</i>					
<i>Gyptis brunnea</i>					
<i>Ophiodromus pugettensis</i>					
Lumbrineridae, unid.					
<i>Lumbrineris ?crassidentata</i>					
<i>Lumbrineris erecta</i>					
<i>Lumbrineris ?tetaura</i>					
<i>Lumbrineris spp.</i>	50	100	130	100	90
Magelonidae					
<i>Magelona sacculata</i>					
Maldanidae, unid. (frag.)					
<i>Asychis sp.</i>					
<i>Axiothella sp.</i>					
<i>Praxillella affinis pacifica</i>					
<i>Praxillella sp.</i>					
Nephtyidae, unid.					
<i>Nephtys caecoides</i>				50	
<i>Nephtys californiensis</i>					
<i>Nephtys cornuta franciscana</i>					
<i>Nephtys ferruginea</i>	10				
Nereidae, unid. (juv.)					
<i>Neanthes arenaceodentata</i>					10
<i>Nereis latescens</i>					
<i>Nereis procera</i>					
<i>Nereis sp. (juv.)</i>					
<i>?Perinereis monterea</i>					
<i>Platynereis bicanaliculata</i>					
Onuphidae, unid. (juv.)					
<i>Diopatra ornata</i>					
<i>Diopatra splendidissima</i>					
<i>Diopatra sp. (juv.)</i>					
Opheliidae					
<i>Armandia bioculata</i>	10				10
<i>Polyopthalamus pictus</i>					
Orbiniidae					
<i>Haploscoloplos elongatus</i>	40	130	100	10	10
<i>Naineris dendritica</i>					
<i>Scoloplos acmeceps</i>					
Oweniidae					
<i>Owenia collaris</i>					
Paraonidae					
<i>Acesta catherinae</i>					
<i>Acesta horikoshii</i>					
<i>Paraonella platybranchia</i> (=Paraonides platybranchia)					

## HARBORS ENVIRONMENTAL PROJECTS

## BENTHIC DATA

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## POLYCHAETA (cont.)

## Pectinariidae

*Pectinaria californiensis*  
(=*P. c. newportensis*)

10

## Phyllodocidae, unid.

*Anaitides nr. papillosa**Anaitides sp. (juv.)**Eteone californica**Eteone dilatae**Eteone sp.**Eulalia aviculifera**Eulalia ?myriacyclum**Eulalia quadrioculata**Eulalia sp. (juv.)**Eumida bifoliata**Eumida sanguinea**?Genetyllis castanea**Hesionura coineaei difficilis**Phyllocoete sp.*

## Pilargidae

*Ancistrosyllis hamata**Sigambla tentaculata*

## Polynoidae, unid. (frag.)

*Halosydna johnsoni**Halosydna sp.**Harmothoe ?crassicirrata**Harmothoe hirsuta**Harmothoe imbricata**Harmothoe priops**Harmothoe scriptoria**Harmothoe sp.**Lepidonotus ?squamus*

## Sabellariidae

*Sabellaria cementarium*

## Sabellidae, unid.

*Chone ecaudata**Chone sp.**Euchone limnicola**Megalomma pigmentum**Myxicola ?infundibulum**?Potamilla sp.*

## Scalabregmidae

*Scalabregma inflatum*

## Serpulidae

*Eupomatus gracilis**Hydroides pacifica*

90

10

30

## Sigalionidae

*Pholoe glabra**Sthenelanella uniformis**Sthenelais verruculosa*

## Spionidae, unid.

*Boccardia sp.**Boccardiella hamata*(=*Boccardia hamata*)

20

210

240

190

*Laonice cirrata*

HARBORS ENVIRONMENTAL PROJECTS  
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<b>POLYCHAETA (cont.)</b>					
<i>Spionidae</i> , unid. (cont.)					
<i>Paraprionospio pinnata</i>					
<i>Polydora ligni</i>	80	350	10	1020	400
<i>Polydora socialis</i>					
<i>Polydora</i> sp.					
<i>Prionospio cirrijera</i>	10	10			
<i>Prionospio heterobranchia</i> (=P.h. newportensis)	50	130	100	80	310
<i>Prionospio pygmaeus</i>		30	60		
<i>Prionospio</i> sp.					
<i>Pseudopolydora paucibranchiata</i>	330	2860	580	2490.	3230
<i>Rhynchospio tarenicola</i>					
<i>Rhynchospio</i> sp.					
<i>Scolelepis acuta</i> (=Nerinides acuta)	160	400	250		150
<i>Spio ?filicornis</i>					
<i>Spio maculata</i> (=Nerinides maculata)					
<i>Spiophanes missionensis</i>		10	30		
<i>Streblospio benedicti</i>	2380	1950	4850	2880	800
<i>Spirorbidae</i>					
<i>Janua brasiliensis</i>					
<i>Pileolaria pseudomilitaria</i>					
<i>Syllidae</i> , unid.				10	
<i>Autolytus</i> sp.					
<i>Brania</i> sp.		40		10	
<i>Eusyllis</i> sp.					
<i>Erogone gemmifera</i>					
<i>Erogone lourei</i>					
<i>Erogone verugera</i>					
<i>Erogone</i> sp.					
<i>Odontosyllis phosphorea</i>					
<i>Sphaerosyllis californiensis</i>					
<i>Sphaerosyllis</i> sp.					
<i>Syllides</i> sp.					
<i>?Syllis</i> sp.					
<i>Typosyllis ?hyalina</i>	450				
<i>Typosyllis</i> sp.					
<i>Terebellidae</i> , unid.					
<i>Anasana occidentalis</i>				10	
<i>Pista fasciata</i>					
<i>Pista ?disjuncta</i>					
<i>Pista</i> sp. (juv.)					
<i>Streblosoma crassibranchia</i>					
<b>ARTHROPODA--CRUSTACEA</b>					
<i>Amphipoda</i>					
<i>Caprellidea</i> , unid.			30		
<i>Gammaridea</i> , unid.	80		10	10	30
<i>Copepoda</i>					
<i>Calanoida</i> , unid.		30			
<i>Cyclopoida</i> , unid.	20				
<i>Clausidium vancouverense</i>					
<i>Harpacticoida</i> , unid.					

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## ARTHROPODA CRUSTACEA (cont.)

## Cumacea, unid.

- Cyclaspis* sp.
- Diastylis* sp.
- Diastylopsis tenuis*
- Oxyurostylus pacifica*

## Decapoda

## Decapod zoea larvae

## Anomura

## Paguridae

- Pagurus* sp.

## Brachyura

## Canceridae

- Cancer anthonyi*
- Cancer gracilis*
- Cancer* sp. (juv.)

## Grapsidae

- Hemigrapsus oregonensis*
- Hemigrapsus* sp. (juv.)

20	10
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## Majidae

- Pyromaiia tuberculata*

## Pinnotheridae, unid.

- Opisthopus transversus*
- Pinnixa franciscana*
- Pinnixa* sp.
- Scleropolar granulata*

## Caridea

## Alpheidae, unid.

- Alpheus californiensis*
- Alpheus equidactylus*
- Betaeus* sp. (frag.)

## Palaemonidae

- Palaemonella holmesi*

## Macrura

## Callianassidea

- Callianassa* sp.
- Upogebia* sp.

## Isopoda, unid.

10

- Edotea* sp.

- Limnoria* sp.

- Munna* sp.

## Mysidacea, unid.

90	150
----	-----

## Nebaliacea, unid.

## Ostracoda, unid.

- Cylindroleberidinae*, unid.

- Philomedes* sp.

- Rutiderma rostrata*

## Tanaidacea, unid.

- Anatanais normani*

70

- Leptocheilia* sp.

## Thoracica

- Balanus pacificus*

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ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Thoracica (cont.)

*Balanus tintinnabulum californicus*

*Balanus trigonus*

*Balanus sp.*

ARTHROPODA--INSECTA

Chironomidae, larvae

*Paraclunio alaskensis* (larvae)

ARTHROPODA--PYCNOGONIDA

*Anoplodactylus erectus*

*Callipallene californiensis*

Pallenidae, unid.

*Tantystylum intermedium*

ASCHELMINTHES

Nematoda, unid.

60

BRACHIOPODA

*Glottidia albida*

BRYOZOA (=ECTOPROCTA)

*Bowerbankia gracilis*

*Bugula neritina*

*Bugula stolonifera*

(=*Bugula californica*)

*Celleporaria brunnea*

*Cryptosula pallasiana*

*Schizoporella unicornis*

*Watersipora arcuata*

*Zoobotryon verticillatum*

10

CHORDATA

Cephalochordata

*Branchiostoma californiense*

Osteichthys

Gobiesocidae

*Gobiesox rhessodon*

Gobieidae, unid.

Gobieidae, larvae

*Clevelandia ios*

*Ilypnus gilberti*

10 10

10

*Lepidogobius lepidus*

Urochordata

Ascidacea, unid.

*Botryllus sp.*

*Ciona intestinalis*

*Mogula pugetiensis*

*Styela clava*

*Styela plicata*

CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria, unid.

*Diadumene sp.*

*Edwardsia californica*

*Edwardsia nr. siphonuloides*

*Edwardsia sp.* (juv.)

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## HARBORS ENVIRONMENTAL PROJECTS

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## CNIDARIA (Cont.)

## Anthozoa

*Actinaria*, unid.*Edwardsiidae*, unid.

30

*Mesacmaea* sp. A*Ceriantharia*, unid.

## Hydrozoa--Hydroida

*Aglaophenia diversidentata**Aglaophenia* nr. *pluma**Corymorpha aurata*

## ECHINODERMATA

*Echinoidea*, unid. (juv.)*Strongylocentrotus purpuratus**Holothuroidea*, unid.*Ophiuroidea*, unid. (juv.)

## ECHURA

*Urechis caupo*

## HEMICORDATA

*Enteropneusta*, unid.

## MOLLUSCA--Gastropoda, unid. (juv.)

Gastropoda--Ophistobranchia

*Cephalaspidea*, unid.*Acteocina harpa**Acteocina inculta*

60	160	460	100	110
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*Aglaja* sp.*Bulla gouldiana*

10

*Rictaris punctocaulatus**Sulcoretusa* sp.*Woodbridgea* sp.*Nudibranchia*, unid.*Acanthodoris* sp.*Trinchesia* sp.

Pyramidellida

*Odostomia* sp.

Gastropoda--Prosobranchia

Mesogastropoda

Caecidae

*Caecum* sp.*Fartulum* sp.? *Micranellium* sp.

Calyptraeidae

*Crepidula dorsata* (= *Crepidatella lingulata*)*Crepidula onyx*

60

*Crepidula preforans**Crepidula* sp. (juv.)

Lamellariidae

*Lamellaria sharonae*

Naticidae

*Neverita reclusiana**Sinum* sp.

Vitrinellidae

*Vitrinella oldroydi*

## HARBORS ENVIRONMENTAL PROJECTS

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## MOLLUSCA (cont.)

## Gastropoda--Prosobranchia (cont.)

## Neogastropoda

## Columbellidae

*Mitrella carinata**Mitrella* sp.

## Muricidae

*Pteropurpura festiva*

## Nassariidae

*Nassarius mendicus**Nassarius perpinguis**Nassarius* sp.

## Olividae

*Olivella baetica*

## Pyramidellidae

*Turbanilla* sp.

## Turridae

*Kurtziella plumbea*

## Pelecypoda, unid. (juv.)

40

## Cardiidae

*Laevicardium substriatum*

## Cooperellidae

*Cooperella subdiaphana*

## Donacidae

*Donax gouldii*

## Erycinidae

*Lasaea subviridis*

## Hiatellidae

*Hiatella arctica*

## Leptonidae

*"Lepton meroeum"*

## Lucinidae

*Parvilucina tenuisculpta*(=*Parvilucina* sp.)

## Lyonsiidae

*Lyonsia californica*

## Mactridae, unid. (juv.)

*Mactra californica**Mactra* sp.*Spisula catilliformis**Spisula* sp.*Tresus nuttalli*

## Montacutidae

*Orobitella* sp.*Mysella pedroana**Mysella* sp.

## Myidae

*Cryptomya californica*

## Mytilidae, unid. (juv.)

*Amygdalum* sp.*Modiolus* sp.*Mytilus edulis*

60

## Ostreidae

*Ostrea lurida*

## Pectinidae

*Leptopecten latiauratus*

## HARBORS ENVIRONMENTAL PROJECTS

## BENTHIC DATA

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## MOLLUSCA (cont.)

## Pelecypoda (cont.)

## Petricolidae

*Petricola tellimyalis*

10

*Petricola* sp.

## Semelidae

*Cumingia californica**Theora lubrica*

20

10

## Solecurtidiae

*Tagelus subteres*

## Solenidae

*Ensis myrae**Siliqua lucida**Solen* sp. (juv.)

## Tellinidae

*Leporimetis obesa**Macoma acolasta**Macoma carlottensis**Macoma nasuta*

10

*Macoma* sp. (juv.)

20

*Tellina modesta**Tellina* sp. (juv.)

## Thyasiridae

*Axinopsida serricata**Thyasira flexuosa*

## Veneridae

*Chione undatella**Chione* sp. (juv.)*Prototthaca staminea**Prototthaca* sp.

100

50

10

*Saxidomus nuttalli**Saxidomus* sp. (juv.)

30

*Polyplacophora*, unid.

## NEMERTEA, unid.

10 30 20 10

## PHORONIDA, unid.

*Phoronis pallida**Phoronis* sp.*Phoronopsis* sp.

## PLATYHELMINTHES

*Polycladida*, unid.

20

## PROTOZOA

Foraminifera

"Rosalina-like" forams

## SIPUNCULIDA, unid.

## MARINERS ENVIRONMENTAL PROJECTS

## BENTHIC DATA

## STATION MDR 10

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## ANNELIDA

OLIGOCHAETA, unid.

Tubificidae

*Peloscolex gabriellae*

## POLYCHAETA

Ampharetidae

*Ampharete labrops**Amphicteis scaphobranchiata**Melinna oculata*

Arabellidae, unid. (juv.)

Capitellidae

*Capitella capitata**Mediomastus acutus**Mediomastus californiensis*  
(=*Capitita ambiseta*)*Notomastus tenuis*

380 910 140 30 480

110 40 650 100

10

Chaetopteridae, unid. (frag.)

*Spiochaeopterus costarum*

Chrysopetalidae

*Chrysopetalum occidentale**Paleanotus bellis*

Cirratulidae, unid.

*Caulieriella alata*

20

*Caulieriella bioculata**Caulieriella hamata**Caulieriella* sp.*Chaetozone corona*

20 10

*Chaetozone setosa**Chaetozone* sp.*Cirratulus cirratus*

20 10

*Cirriformia luxuriosa*

20 10

*Cirriformia* sp (juv.)*Tharyx* nr. *tesselata**Tharyx* spp.

100 50 70

90

Cossuridae

*Cossura candida*

1120 130 900

Ctenodrilidae

*Ctenodrilus serratus*

Dorvilleidae, unid.

*Ophryctrocha puerilis**Protodorvillea gracilis**Schistomerengos longicornis*

170 300 130

450

Flabelligeridae, unid.

*Pherusa capulata*

10

*Pherusa* sp.

Glyceridae

*Glycera americana**Glycera capitata**Glycera convoluta**Glycera rouxi**Glycera* sp. (juv.)

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## POLYCHAETA (cont.)

Goniadidae, unid. (juv.)

*Glycinde armigera* 10  
*Goniada brunnea*  
*Goniada littorea*  
*Goniada sp.*

Hesionidae, unid.

*Hesionidae*, new genus  
*Gyptis brevipalpa*  
*Gyptis brunnea*  
*Ophiodromus pugettensis* 10

Lumbrineridae, unid.

*Lumbrineris* ?*crassidentata*  
*Lumbrineris erecta* 20  
*Lumbrineris* ?*tetaura*  
*Lumbrineris* spp. 20

Magelonidae

*Magelona sacculata*

Maldanidae, unid. (frag.)

*Asychis* sp.  
*Axiothella* sp.  
*Praxillella affinis pacifica*  
*Praxillella* sp.

Nephtyidae, unid.

*Nephtys caecoides*  
*Nephtys californiensis*  
*Nephtys cornuta franciscana*  
*Nephtys ferruginea* 10

Nereidae, unid. (juv.)

*Neanthes arenaceodentata*  
*Nereis latescens*  
*Nereis procera*  
*Nereis* sp. (juv.)

?Perinereis monterea

*Platynereis bicanaliculata*

Onuphidae, unid. (juv.)

*Diopatra ornata*  
*Diopatra splendidissima*  
*Diopatra* sp. (juv.)

Opheliidae

*Armandia bioculata*  
*Polyopthalmus pictus*

Orbiniidae

*Haploscoloplos elongatus* 100 130 60 40  
*Naineris dendritica* 10

*Scoloplos acmeceps*

Oweniidae

*Owenia collaris*

Paraonidae

*Acesta catherinae*  
*Acesta horikoshii*  
*Paraonella platybranchia*  
 (=Paraonides platybranchia)

## HARBORS ENVIRONMENTAL PROJECTS

## BENTHIC DATA

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## POLYCHAETA (cont.)

## Pectinariidae

*Pectinaria californiensis*  
(=*P. c. newportensis*)

## Phyllodocidae, unid.

*Anaitides nr. papillosa*

*Anaitides* sp. (juv.)

*Eteone californica*

*Eteone dilatae*

*Eteone* sp.

*Eulalia aviculifera*

*Eulalia ?myriacyclum*

*Eulalia quadrioculata*

*Eulalia* sp. (juv.)

*Eumida bifoliata*

*Eumida sanguinea*

?*Genetyllis castanea*

*Hesionura coineaei difficilis*

*Phyllodoce* sp.

## Pilarciidae

*Ancistrosyllis hamata*

*Sigambla tentaculata*

## Polynoidae, unid. (frag.)

*Halosydna johnsoni*

10

*Halosydna* sp.

*Harmothoe ?crassicirrata*

*Harmothoe hirsuta*

*Harmothoe imbricata*

*Harmothoe priops*

*Harmothoe scriptoria*

*Harmothoe* sp.

*Lepidonotus ?squamatus*

## Sabellariidae

*Sabellaria cementarium*

## Sabellidae, unid.

*Chone ecaudata*

10

*Chone* sp.

*Euchone limnicola*

*Megalomma pigmentum*

*Myxicola ?infundibulum*

?*Potamilla* sp.

## Scalabregmidae

*Scalabregma inflatum*

## Serpulidae

*Eupomatus gracilis*

50

*Hydroides pacifica*

## Sigalionidae

*Pholoe glabra*

*Sthenelanella uniformis*

*Sthenelais verruculosa*

## Spionidae, unid.

*Boccardia* sp.

*Boccardiella hamata*

(=*Boccardia hamata*)

*Laonice cirrata*

10

10

50

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<b>POLYCHAETA (cont.)</b>					
Spionidae, unid. (cont.)					
<i>Paraprionospio pinnata</i>					
<i>Polydora ligni</i>	170		1430	770	1060
<i>Polydora socialis</i>					
<i>Polydora sp.</i>					
<i>Prionospio cirrifera</i>	30	30	60	10	10
<i>Prionospio heterobranchia</i>	60	100	90	100	590
(=P.h. newportensis)					
<i>Prionospio pygmaeus</i>					
<i>Prionospio sp.</i>					
<i>Pseudopolydora paucibranchiata</i>	60		1650	1350	810
<i>Rhynchospio tarenicola</i>					
<i>Rhynchospio sp.</i>					
<i>Scolelepis acuta</i>	180	50	240		640
(=Neriniodes acuta)					
<i>Spio ?filicornis</i>					
<i>Spio maculata</i>					
(=Neriniodes maculata)					
<i>Spiophanes missionensis</i>		10			
<i>Streblospio benedicti</i>	4420	2550	5870		20
Spirorbidae					
<i>Janua brasiliensis</i>					
<i>Pileolaria pseudomilitaris</i>					
Syllidae, unid.					
<i>Autolytus sp.</i>					
<i>Brania sp.</i>		10			
<i>Eusyllis sp.</i>					
<i>Exogone gemmifera</i>					
<i>Exogone lourei</i>					
<i>Exogone verugera</i>					
<i>Exogone sp.</i>					
<i>Odontosyllis phosphorea</i>					
<i>Sphaerosyllis californiensis</i>				10	
<i>Sphaerosyllis sp.</i>					
<i>Syllides sp.</i>					10
<i>?Syllis sp.</i>		80			
<i>Typosyllis ?hyalina</i>					
<i>Typosyllis sp.</i>					
Terebellidae, unid.					
<i>Amaeana occidentalis</i>					
<i>Pista fasciata</i>					
<i>Pista ?disjuncta</i>					
<i>Pista sp. (juv.)</i>					
<i>Streblosoma crassibranchia</i>					
<b>ARTHROPODA--CRUSTACEA</b>					
Amphipoda					
<i>Caprellidea, unid.</i>		30	20		10
<i>Gammaridea, unid.</i>			10		40
Copepoda					
<i>Calanoida, unid.</i>					
<i>Cyclopoidae, unid.</i>		160	20		
<i>Clausidium vancouverense</i>					
<i>Harpacticoida, unid.</i>					

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## ARTHROPODA CRUSTACEA (cont.)

Cumacea, unid.					
<i>Cyclaspis</i> sp.					
<i>Diastylis</i> sp.					
<i>Diastylopsis tenuis</i>					
<i>Oxyurostylus pacifica</i>					
Decapoda					
Decapod zoea larvae					10
Anomura					
<i>Paguridae</i>					
<i>Pagurus</i> sp.					
Brachyura					
Canceridae					
<i>Cancer anthonyi</i>					
<i>Cancer gracilis</i>					
<i>Cancer</i> sp. (juv.)					
Grapsidae					
<i>Hemigrapsus oregonensis</i>			20		
<i>Hemigrapsus</i> sp. (juv.)					
Majidae					
<i>Pyromaiia tuberculata</i>					
Pinnotheridae, unid.		10			
<i>Opisthopus transversus</i>					
<i>Pinnixa franciscana</i>					
<i>Pinnixa</i> sp.					
<i>Scleroplax granulata</i>			180		
Caridea					
Alpheidae, unid.					
<i>Alpheus californiensis</i>					
<i>Alpheus equidactylus</i>					
<i>Betaeus</i> sp. (frag.)					
Palaemonidae					
<i>Palaemonella holmesi</i>					
Macrura					
Callianassidea					
<i>Callianassa</i> sp.					
<i>Upogebia</i> sp.	80				
Isopoda, unid.					20
<i>Edotea</i> sp.					
<i>Limnoria</i> sp.					
<i>Munna</i> sp.					
Mysidacea, unid.			310		
Nebaliacea, unid.					
Ostracoda, unid.					
<i>Cylindroleberidinae</i> , unid.					
<i>Philomedes</i> sp.					
<i>Rutiderma rostrata</i>					
Tanaidacea, unid.					
<i>Anatanais normani</i>					
<i>Leptocheilia</i> sp.					
Thoracica					
<i>Balanus pacificus</i>					

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## ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Thoracica (cont.)

*Balanus tintinnabulum californicus**Balanus trigonus**Balanus* sp.

## ARTHROPODA--INSECTA

Chironomidae, larvae

*Paracladius alaskensis* (larvae)

## ARTHROPODA--PYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis**Pallenidae*, unid.*Tantystylum intermedium*

## ASCHELMINTHES

Nematoda, unid.

## BRACIOPODA

*Glottidia albida*

## BRYOZOA (=ECTOPROCTA)

*Bowerbankia gracilis**Bugula neritina**Bugula stolonifera*(*Bugula californica*)*Celleporaria brunnea**Cryptosula pallasiana**Schizoporella unicornis**Watersipora arcuata**Zoobotryon verticillatum*

## CHORDATA

Cephalochordata

*Branchiostoma californiense*

Osteichthys

Gobiesocidae

*Gobiesox rhessodon*

Gobieidae, unid.

Gobieidae, larvae

*Clevelandia ios*

10

10

20

60

*Ilypnus gilberti*

30

*Lepidogobius lepidus*

Urochordata

Ascidacea, unid.

*Botryllus* sp.*Ciona intestinalis**Mogula pugetiensis**Styela clava**Styela plicata*

## CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria, unid.

*Diadumene* sp.*Edwardsia californica**Edwardsia nr. sippunculoides**Edwardsia* sp. (juv.)

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## CNIDARIA (Cont.)

## Anthozoa

Actinaria, unid.

Edwardsiidae, unid.

*Mesacmaea* sp. A

Ceriantharia, unid.

## Hydrozoa--Hydroida

*Aglaophenia diversidentata**Aglaophenia* nr. *pluma**Corymorpha aurata*

## ECHINODERMATA

Echinoidea, unid. (juv.)

*Strongylocentrotus purpuratus*

Holothuroidea, unid.

Ophiuroidea, unid. (juv.)

## ECHURA

*Urechis caupo*

10

## HEMICORDATA

Enteropneusta, unid.

## MOLLUSCA--Gastropoda, unid. (juv.)

Gastropoda--Ophistobranchia

Cephalaspidea, unid.

*Acteocina harpa**Acteocina inulta*

250            110            80            40

10

*Aglaja* sp.*Bulla gouldiana**Rictaris punctocaulatus**Sulcoretusa* sp.*Woodbridgea* sp.

Nudibranchia, unid.

*Acanthodoris* sp.*Trinchesia* sp.

Pyramidelida

*Odostomia* sp.

Gastropoda--Prosobranchia

Mesogastropoda

Caecidae

*Caecum* sp.*Furtulum* sp.? *Micranellium* sp.

Calyptraeidae

*Crepidula dorsata* (= *Crepipatella lingulata*)*Crepidula onyx**Crepidula prefornans**Crepidula* sp. (juv.)

Lamellariidae

*Lamellaria sharonae*

Naticidae

*Neverita reclusiana**Sinum* sp.

Vitrinellidae

*Vitrinella oldroydi*

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## MOLLUSCA (cont.)

## Gastropoda--Prosobranchia (cont.)

## Neogastropoda

## Columbellidae

*Mitrella carinata**Mitrella sp.*

## Muricidae

*Pteropurpura festiva*

## Nassariidae

*Nassarius mendicus**Nassarius perpinguis**Nassarius sp.*

## Olividae

*Olivella baetica*

## Pyramidellidae

*Turbanilla sp.*

## Turridae

*Kurtziella plumbea*

## Pelecypoda, unid. (juv.)

20

## Cardiidae

*Laevicardium substriatum*

## Cooperellidae

*Cooperella subdiaphana*

## Donacidae

*Donax gouldii*

## Erycinidae

*Lasaea subviridis*

## Hiatellidae

*Hiatella arctica*

## Leptonidae

*"Lepton meroeum"*

## Lucinidae

*Parvilucina tenuisculpta**(=Parvilucina sp.)*

## Lyonsiidae

*Lyonsia californica*

## Mactridae, unid. (juv.)

*Mactra californica**Mactra sp.**Spisula catilliformis**Spisula sp.**Tresus nuttalli*

## Montacutidae

*Orobittella sp.**Mysella pedroana**Mysella sp.*

## Myidae

*Cryptomya californica*

## Mytilidae, unid. (juv.)

50

*Amygdalum sp.**Modiolus sp.**Mytilus edulis*

## Ostreidae

*Ostrea lurida*

## Pectinidae

*Leptopecten latiauratus*

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' MOLLUSCA (cont.)					
Pelecypoda (cont.)					
Petricolidae					
<i>Petricola tellimyalis</i>					
<i>Petricola</i> sp.				20	
Semelidae					
<i>Cumingia californica</i>					
<i>Theora lubrica</i>				20	
Solecurtidae					
<i>Tagelus subteres</i>					
Solenidae					
<i>Ensis myrae</i>					
<i>Siliqua lucida</i>					
<i>Solen</i> sp. (juv.)					
Tellinidae					
<i>Leporimetis obesa</i>					
<i>Macoma acolasta</i>					
<i>Macoma carlottensis</i>					
<i>Macoma nasuta</i>					
<i>Macoma</i> sp. (juv.)				10	
<i>Tellina modesta</i>					
<i>Tellina</i> sp. (juv.)					
Thyasiridae					
<i>Axinopsida serricata</i>					
<i>Thyasira flexuosa</i>					
Veneridae					
<i>Chione ?undatella</i>					
<i>Chione</i> sp. (juv.)					
<i>Protothaca staminea</i>					
<i>Protothaca</i> sp.	10			10	
<i>Saxidomus nuttalli</i>					
<i>Saxidomus</i> sp. (juv.)					
Polyplacophora, unid.					
NEMERTEA, unid.			10		
PHORONIDA, unid.					
<i>Phoronis pallida</i>					
<i>Phoronis</i> sp.					
<i>Phoronopsis</i> sp.					
PLATYHELMINTHES					
<i>Polycladia</i> , unid.					
PROTOZOA					
Foraminifera					
<i>"Rosalina-like" forams</i>					
SIPUNCULIDA, unid.					

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<b>ANNELIDA</b>					
OLIGOCHAETA, unid.	90	150	10	340	10
Tubificidae					
<i>Peloscolex gabriellae</i>					
POLYCHAETA					
Ampharetidae					
<i>Ampharete labrops</i>					
<i>Amphicteis scaphobranchiata</i>					
<i>Melinna oculata</i>					
Arabellidae, unid. (juv.)					
Capitellidae					
<i>Capitella capitata</i>		50		40	200
<i>Mediomastus acutus</i>					
<i>Mediomastus californiensis</i>	1500	730	820	800	400
(=Capitita ambiseta)					
<i>Notomastus tenuis</i>	10				10
Chaetopteridae, unid. (frag.)					
<i>Spiochaeiopterus costarum</i>					
Chrysopetalidae					
<i>Chrysopetalum occidentale</i>					
<i>Paleanotus bellis</i>					
Cirratulidae, unid.		20			
<i>Caulieriella alata</i>					
<i>Caulieriella bioculata</i>					
<i>Caulieriella hamata</i>					
<i>Caulieriella</i> sp.					
<i>Chaetozone corona</i>	130	30	60	120	50
<i>Chaetozone setosa</i>					
<i>Chaetozone</i> sp.					
<i>Cirratulus cirratus</i>					10
<i>Cirriformia luxuriosa</i>					
<i>Cirriformia</i> sp (juv.)				10	
<i>Tharyx</i> nr. <i>tesselata</i>					
<i>Tharyx</i> spp.	30	60	30	20	20
Cossuridae					
<i>Cossura candida</i>			10		
<i>Cossura pygodactylata</i>	10	50	10	1080	
Ctenodrilidae					
<i>Ctenodrilus serratus</i>					
Dorvilleidae, unid.					
<i>Ophryotrocha puerilis</i>					
<i>Protodorvillea gracilis</i>					
<i>Schistomerengos longicornis</i>			20		60
Flabelligeridae, unid.					10
<i>Pherusa capulata</i>					
<i>Pherusa</i> sp.					
Glyceridae					
<i>Glycera americana</i>					
<i>Glycera capitata</i>					
<i>Glycera convoluta</i>					
<i>Glycera rouxi</i>					
<i>Glycera</i> sp. (juv.)					

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## POLYCHAETA (cont.)

Goniadidae, unid. (juv.)

*Glycinde armigera*

*Goniada brunnea*

*Goniada littorea*

*Goniada sp.*

Hesionidae, unid.

*Hesionidae, new genus*

*Gyptis brevipalpa*

*Gyptis bromnea*

*Ophiodromus pugettensis*

Lumbrineridae, unid.

*Lumbrineris ?crassidentata*

*Lumbrineris erecta*

10

*Lumbrineris ?tetaura*

*Lumbrineris spp.*

150	210	200	110	70
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Magelonidae

*Magelona sacculata*

Maldanidae, unid. (frag.)

*Asychis sp.*

*Axiothella sp.*

*Praxillella affinis pacifica*

*Praxillella sp.*

Nephtyidae, unid.

*Nephtys caecoides*

20

*Nephtys californiensis*

*Nephtys cornuta franciscana*

*Nephtys ferruginea*

Nereidae, unid. (juv.)

*Neanthes arenaceodentata*

*Nereis latescens*

10

*Nereis procula*

*Nereis sp. (juv.)*

?*Perinereis monterea*

*Platynereis bicanaliculata*

Onuphidae, unid. (juv.)

*Diopatra ornata*

*Diopatra splendidissima*

*Diopatra sp. (juv.)*

Opheliidae

*Armandia bioculata*

*Polyopthalmus pictus*

Orbiniidae

*Haploscoloplos elongatus*

240	120	170	40	10
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*Naineris dendritica*

*Scoloplos acmeceps*

Oweniidae

*Owenia collaris*

Paracnidae

*Acesta catherinae*

*Acesta horikoshii*

*Paraconella platybranchia*

(=*Paraconides platybranchia*)

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## POLYCHAETA (cont.)

## Pectinariidae

*Pectinaria californiensis*  
(=*P. c. newportensis*)

## Phyllodocidae, unid.

*Anaitides* nr. *papillosa* 10  
*Anaitides* sp. (juv.)  
*Eteone californica*  
*Eteone dilatae*  
*Eteone* sp.  
*Eulalia aviculifera*  
*Eulalia* ?*myriacyclum*  
*Eulalia quadriculata*  
*Eulalia* sp. (juv.)  
*Eumida bifoliata*  
*Eumida sanguinea*  
?*Genetyllis castanea*  
*Hesionura coineaei difficilis*  
*Phyllocoelus* sp.

## Pilarciidae

*Ancistrosyllis hamata*  
*Sigambra tentaculata*

10

## Polynoidae, unid. (frag.)

*Halosydna johnsoni*  
*Halosydna* sp.  
?*Harmothoe crassicirrata*  
*Harmothoe hirsuta*  
*Harmothoe imbricata*  
*Harmothoe priops*  
*Harmothoe scriptoria*  
*Harmothoe* sp.  
*Lepidorhynchus squamatus*

## Sabellariidae

*Sabellaria cementarium*

## Sabellidae, unid.

*Chone ecaudata*  
*Chone* sp.  
*Euchone limnicola*  
*Megalomma pigmentatum*  
?*Myxicola infundibulum*  
?*Potamilla* sp.

70

## Scalabregmidae

*Scalabregma inflatum*

## Serpulidae

*Eupomatus gracilis*  
*Hydrodromes pacifica*

10

800

## Sigalionidae

*Pholoe glabra*  
*Sthenelanella uniformis*  
*Sthenelais verruculosa*

10

## Spionidae, unid.

*Boccardia* sp.  
*Boccardiella hamata*  
(=*Boccardia hamata*)  
*Laonice cirrata*

10

20

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## POLYCHAETA (cont.)

## Spionidae, unid. (cont.)

<i>Parapriionospio pinnata</i>			10		
<i>Polydora ligni</i>	100	90	90	540	90
<i>Polydora socialis</i>					
<i>Polydora sp.</i>					
<i>Prionospio cirrijera</i>	10	10			
<i>Prionospio heterobranchia</i> (= <i>P. h. newportensis</i> )	260	140	80	170	160
<i>Prionospio pygmaeus</i>					
<i>Prionospio sp.</i>				20	
<i>Pseudopolydora paucibranchiata</i>	1240	340	1780	8120	1380
<i>Rhynchospio ?arenicola</i>					
<i>Rhynchospio sp.</i>					
<i>Scolelepis acuta</i> (= <i>Nerinides acuta</i> )	160	110	70	50	40
<i>Spio ?filicornis</i>					
<i>Spio maculata</i> (= <i>Nerinides maculata</i> )					
<i>Spiophanes missionensis</i>					
<i>Streblospio benedicti</i>	4180	1280	590	4860	440

## Spirorbidae

<i>Janua brasiliensis</i>	
<i>Pileolaria pseudomilitaris</i>	

## Syllidae, unid.

<i>Autolytus sp.</i>	
<i>Brania sp.</i>	
<i>Eusyllis sp.</i>	
<i>Exogone gemmifera</i>	
<i>Exogone lourei</i>	
<i>Exogone verugera</i>	
<i>Exogone sp.</i>	
<i>Odontosyllis phosphorea</i>	
<i>Sphaerosyllis californiensis</i>	
<i>Sphaerosyllis sp.</i>	
<i>Syllides sp.</i>	
? <i>Syllis sp.</i>	
<i>Typosyllis ?hyalina</i>	
<i>Typosyllis sp.</i>	

## Terebellidae, unid.

<i>Amaeana occidentalis</i>	10	10
<i>Pista fasciata</i>		
<i>Pista ?disjuncta</i>		
<i>Pista sp. (juv.)</i>		
<i>Streblosoma crassibranchia</i>		

## ARTHROPODA--CRUSTACEA

## Amphipoda

<i>Caprellidea, unid.</i>	30	20	40
<i>Gammaridea, unid.</i>		140	

## Copepoda

<i>Calanoida, unid.</i>	
<i>Cyclopoida, unid.</i>	
<i>Clausidium vancouverense</i>	
<i>Harpacticoida, unid.</i>	

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## ARTHROPODA CRUSTACEA (cont.)

Cumacea, unid.		10			
<i>Cyclaspis sp.</i>					
<i>Diastylis sp.</i>					
<i>Diastylopsis tenuis</i>					
<i>Oxyurostylus pacifica</i>					
Decapoda					
Decapod zoea larvae		20			
Anomura					
Paguridae					
<i>Pagurus sp.</i>					
Brachyura					
Canceridae					
<i>Cancer anthonyi</i>					
<i>Cancer gracilis</i>					
<i>Cancer sp. (juv.)</i>					
Grapsidae					
<i>Hemigrapsus oregonensis</i>					
<i>Hemigrapsus sp. (juv.)</i>					
Majidae					
<i>Pyromais tuberculata</i>					
Pinnotheridae, unid.					
<i>Opisthopus transversus</i>					
<i>Pinnixa franciscana</i>					
<i>Pinnixa sp.</i>					
<i>Scleroplax granulata</i>					
Caridea					
Alpheidae, unid.					
<i>Alpheus californiensis</i>					
<i>Alpheus equidactylus</i>					
<i>Betaeus sp. (frag.)</i>					
Palaemonidae					
<i>Palaemonella holmesi</i>					
Macrura					
Callianassidea					
<i>Callianassa sp.</i>	20				
<i>Upogebia sp.</i>					
Isopoda, unid.			10		
<i>Edotea sp.</i>					
<i>Limnoria sp.</i>					
<i>Munna sp.</i>					
Mysidacea, unid.	120	70			
Nebaliacea, unid.					
Ostracoda, unid.					
<i>Cylindroleberidinae, unid.</i>					
<i>Philomedes sp.</i>					
<i>Rutiderma rostrata</i>					
Tanaidacea, unid.					
<i>Anatanais normani</i>					
<i>Leptochelia sp.</i>					
Thoracica					
<i>Balanus pacificus</i>					

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## ARTHROPODA CRUSTACEA (cont.)

## Decapoda (cont.)

## Thoracica (cont.)

- Balanus tintinnabulum californicus*
- Balanus trigonus*
- Balanus sp.*

## ARTHROPODA--INSECTA

## Chironomidae, larvae

*Paraclunio alaskensis* (larvae)

## ARTHROPODA--PYCNOGONIDA

- Anoplodactylus erectus*
- Callipallene californiensis*
- Pallenidae, unid.
- Tantystylum intermedium*

## ASCHELMINTHES

## Nematoda, unid.

## BRACHIOPODA

*Glottidia albida*

## BRYOZOA (=ECTOPROCTA)

- Bowerbankia gracilis*
- Bugula neritina*
- Bugula stolonifera*  
(=*Bugula californica*)
- Celleporaria brunnea*
- Cryptosula pallasiana*
- Schizoporella unicornis*
- Watersipora arcuata*
- Zoobotryon verticillatum*

## CHORDATA

## Cephalochordata

*Branchiostoma californiense*

## Osteichthys

## Gobiesocidae

*Gobiesox rhessodon*

## Gobieidae, unid.

## Gobieidae, larvae

*Clevelandia ios*

10

*Ilypnus gilberti**Lepidogobius lepidus*

## Urochordata

## Ascidacea, unid.

*Botryllus sp.*

830

*Ciona intestinalis**Mogula pugetensis**Styela clava**Styela plicata*

## CNIDARIA (=COELENTERATA)

## Anthozoa

## Actinaria, unid.

*Diadumene sp.**Edwardsia californica**Edwardsia nr. sippoculoides**Edwardsia sp. (juv.)*

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## CNIDARIA (Cont.)

## Anthozoa

*Actinaria*, unid.*Edwardsiidae*, unid.*Mesacmaea* sp. A*Ceriantharia*, unid.

## Hydrozoa--Hydroida

*Aglaophenia diversidentata**Aglaophenia nr. pluma**Corymorphia aurata*

50

## ECHINODERMATA

*Echinoidea*, unid. (juv.)*Strongylocentrotus purpuratus**Holothuroidea*, unid.*Ophiuroidea*, unid. (juv.)

## ECHURA

*Urechis caupo*

## HEMICHORDATA

*Enteropneusta*, unid.

## MOLLUSCA--Gastropoda, unid. (juv.)

## Gastropoda--Ophistobranchia

*Cephalaspidea*, unid.*Acteocina harpa**Acteocina inulta*

510	20	110	1640	610
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*Aglaja* sp.*Bulla gouldiana**Rictaxis punctocaulatus**Sulcoretusa* sp.*Woodbridgea* sp.*Nudibranchia*, unid.*Acanthodoris* sp.*Trinchesia* sp.*Pyramidellida**Odostomia* sp.

## Gastropoda--Prosobranchia

*Mesogastropoda**Caecidae**Caecum* sp.*Fatulon* sp.*?Micranellium* sp.*Calyptaeidae**Crepidula dorsata*(-*Crepidatella lingulata*)*Crepidula onyx**Crepidula prefornans**Crepidula* sp. (juv.)*Lamellariidae**Lamellaria sharonae**Naticidae**Neverita reclusiana**Sinum* sp.*Vitrinellidae**Vitrinella oldroydi*

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## MOLLUSCA (cont.)

## Gastropoda--Prosobranchia (cont.)

## Neogastropoda

## Columbellidae

*Mitrella carinata**Mitrella sp.*

## Muricidae

*Pteropurpura festiva*

## Nassariidae

*Nassarius mendicus**Nassarius perpinguis**Nassarius sp.*

## Olividae

*Olivella baetica*

## Pyramidellidae

*Turbanilla sp.*

## Turridae

*Kurtziella plumbea*

## Pelecypoda, unid. (juv.)

## Cardiidae

*Laevicardium substriatum*

## Cooperellidae

*Cooperella subdiaphana*

## Donacidae

*Donax gouldii*

## Erycinidae

*Lasaea subviridis*

## Hiatellidae

*Hiatella arctica*

## Leptonidae

*"Lepton meroeum"*

## Lucinidae

*Parvilucina tenuisculpta**(=Parvilucina sp.)*

## Lyonsiidae

*Lyonsia californica*

## Mactridae, unid. (juv.)

*Mactra californica**Mactra sp.**Spisula catilliformis**Spisula sp.**Tresus nuttalli*

## Montacutidae

*Orobitella sp.**Mysella pedroana**Mysella sp.*

10

## Myidae

*Cryptomya californica*

## Mytellidae, unid. (juv.)

*Amygdalum sp.*

10

*Modiolus sp.**Mytilus edulis*

## Ostreidae

*Ostrea lurida*

## Pectinidae

*Leptopecten latiauratus*

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## MOLLUSCA (cont.)

## Pelecypoda (cont.)

## Petricolidae

*Petricola tellimyalis*  
*Petricola* sp.

## Semelidae

*Cumingia californica*  
*Theora lubrica*

40

10

70

## Solecurtidae

*Tagelus subteres*

## Solenidae

*Ensis myrae*  
*Siliqua lucida*  
*Solen* sp. (juv.)

## Tellinidae

*Leporimetis obesa*

*Macoma acolasta*

*Macoma carlottensis*

*Macoma nasuta*

*Macoma* sp. (juv.)

10

*Tellina modesta*

*Tellina* sp. (juv.)

## Thyasiridae

*Arinopsida serricata*  
*Thyasira flexuosa*

## Veneridae

*Chione undatella*

*Chione* sp. (juv.)

*Protothaca staminea*

*Protothaca* sp.

10

10

*Saxidomus nuttalli*

*Saxidomus* sp. (juv.)

## Polyplacophora, unid.

## NEMERTEA, unid.

10

20

10

## PHORONIDA, unid.

*Phoronis pallida*

*Phoronis* sp.

*Phoronopsis* sp.

## PLATYHELMINTHES

## Polycladia, unid.

## PROTOZOA

## Foraminifera

"Rosalina-like" forams

## SIPUNCULIDA, unid.

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## ANNELIDA

OLIGOCHAETA, unid.

Tubificidae

*Peloscolex gabriellae*

## POLYCHAETA

Ampharetidae

*Ampharete labrops**Amphicteis scaphobranchiata**Melinna oculata*

Arabellidae, unid. (juv.)

Capitellidae

*Capitella capitata**Mediomastus acutus**Mediomastus californiensis*(*=Capitita ambiseta*)*Notomastus tenuis*

Chaetopteridae, unid. (frag.)

*Spiochaetopterus costarum*

Chrysopetalidae

*Chrysopetalum occidentale**Paleonotus bellis*

Cirratulidae, unid.

*Caulieriella alata**Caulieriella bioculata**Caulieriella hamata**Caulieriella sp.**Chaetozone corona**Chaetozone setosa*

470

40

40

40

20

30

10

730

100

80

10

30

100

30

*Chaetozone sp.**Cirratulus cirratus**Cirriformia luxuriosa**Cirriformia sp (juv.)**Tharyx nr. tessellata**Tharyx spp.*

30

Cossuridae

*Cossura candida**Cossura pygodactyla*

Ctenodrilidae

*Ctenodrilus serratus*

Dorvilleidae, unid.

*Ophryotrocha puerilis**Protodorvillea gracilis**Schistomerings longicornis*

Flabelligeridae, unid.

*Pherusa capulata**Pherusa sp.*

Glyceridae

*Glycera americana**Glycera capitata**Glycera convoluta**Glycera rouxi**Glycera sp. (juv.)*

20

20

20

40

40

20

10

30

10

20

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<b>POLYCHAETA (cont.)</b>						
Goniadidae, unid. (juv.)						
<i>Glycera armigera</i>						
<i>Goniada brunnea</i>	20		20			
<i>Goniada littorea</i>				70		
<i>Goniada sp.</i>					20	
Hesionidae, unid.						
<i>Hesionidae, new genus</i>					20	
<i>Cyptis brevipalpa</i>						
<i>Cyptis brunnea</i>						
<i>Ophiodromus pugettensis</i>						
Lumbrineridae, unid.						
<i>Lumbrineris ?crassidentata</i>						
<i>Lumbrineris erecta</i>						
<i>Lumbrineris ?tetaura</i>						
<i>Lumbrineris spp.</i>	10		30	380		90
Magelonidae						
<i>Magelona sacculata</i>				10		
Maldanidae, unid. (frag.)						
<i>Asychis sp.</i>						
Ariothella sp.						
Praxillella <i>affinis pacifica</i>						
Praxillella sp.						
Nephtyidae, unid.						
<i>Nephtys caecoides</i>	10		20			
<i>Nephtys californiensis</i>					40	20
<i>Nephtys cornuta franciscana</i>						
<i>Nephtys ferruginea</i>						
Nereidae, unid. (juv.)						
<i>Neanthes arenaceodentata</i>						
<i>Nereis latescens</i>	10	10		30		
<i>Nereis procera</i>				30		
<i>Nereis sp. (juv.)</i>						
<i>?Perinereis monterea</i>						
<i>Platynereis bicanaliculata</i>	10				20	
Omphidae, unid. (juv.)						
<i>Diopatra ornata</i>						
<i>Diopatra splendidissima</i>						
<i>Diopatra sp. (juv.)</i>						
Opheliidae						
<i>Armandia bioculata</i>	20		20			
<i>Polyopthalamus pictus</i>						
Orbiniidae						
<i>Haploscoloplos elongatus</i>			20	140		30
<i>Naineris dendritica</i>						
<i>Scoloplos acmeceps</i>						
Oweniidae						
<i>Owenia collaris</i>				10		
Paraeonidae						
<i>Acesta catherinae</i>				10		
<i>Acesta horikoshii</i>						
<i>Paraonella platybranchia</i>						
( <i>=Paraonides platybranchia</i> )						

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## POLYCHAETA (cont.)

## Pectinariidae

*Pectinaria californiensis*  
(=*P. c. newportensis*)

## Phyllodocidae, unid.

*Anaitides nr. papillosa*

*Anaitides sp. (juv.)*

*Eteone californica*

*Eteone dilatae*

*Eteone sp.*

*Eulalia aviculisetosa*

*Eulalia ?myriacyclum*

*Eulalia quadrioculata*

*Eulalia sp. (juv.)*

*Eumida bifoliata*

10

60

*Eumida sanguinea*

10

?*Genetyllis castanea*

*Hesionura coineaui difficilis*

*Phyllodoce sp.*

10

30

10

## Pilargidae

*Ancistrosyllis hamata*

*Sigambra tentaculata*

## Polynoidae, unid. (frag.)

*Halosydna johnsoni*

*Halosydna sp.*

*Harmothoe ?crassicirrata*

*Harmothoe hirsuta*

*Harmothoe imbricata*

*Harmothoe priops*

10

40

*Harmothoe scriptoria*

*Harmothoe sp.*

*Lepidonotus ?squamatus*

## Sabellariidae

*Sabellaria cementarium*

10

## Sabellidae, unid.

*Chone ecaudata*

*Chone sp.*

20

*Euchone limnicola*

*Megalomma pigmentum*

*Myxicola ?infundibulum*

?*Potamilla sp.*

## Scalabregmidae

*Scalabregma inflatum*

## Serpulidae

*Eupomatus gracilis*

10

*Hydroides pacifica*

## Sigalionidae

*Phloe glabra*

10

*Sthenelanella uniformis*

10

*Sthenelais verruculosa*

## Spionidae, unid.

*Boccardia sp.*

20

*Boccardiella hamata*

(=*Boccardia hamata*)

*Laonice cirrata*

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## POLYCHAETA (cont.)

## Spionidae, unid. (cont.)

<i>Paraprionospio pinnata</i>		10	60	
<i>Polydora ligni</i>	20		60	
<i>Polydora socialis</i>				
<i>Polydora sp.</i>				
<i>Prionospio cirrifera</i>		10	10	20
<i>Prionospio heterobranchia</i> (= <i>P. h. newportensis</i> )		10	20	100
<i>Prionospio pygmaeus</i>	90	30	10	30
<i>Prionospio sp.</i>				
<i>Pseudopolydora paucibranchiata</i>				
<i>Rhynchospio ?arenicola</i>				10
<i>Rhynchospio sp.</i>				
<i>Scolelepis acuta</i> (= <i>Nerinides acuta</i> )		10	40	10
<i>Spio ?filicornis</i>				
<i>Spio maculata</i> (= <i>Nerinides maculata</i> )				
<i>Spiophanes missionensis</i>				30
<i>Streblospio benedicti</i>				

## Spirorbidae

<i>Janua brasiliensis</i>	
<i>Pileolaria pseudomilitaris</i>	

## Syllidae, unid.

<i>Autolytus sp.</i>	
<i>Brania sp.</i>	
<i>Eusyllis sp.</i>	
<i>Exogone gemmifera</i>	
<i>Exogone lourei</i>	
<i>Exogone verugera</i>	
<i>Exogone sp.</i>	
<i>Odontosyllis phosphorea</i>	
<i>Sphaerosyllis californiensis</i>	
<i>Sphaerosyllis sp.</i>	
<i>Syllides sp.</i>	
? <i>Syllis sp.</i>	
<i>Typosyllis ?hyalina</i>	
<i>Typosyllis sp.</i>	20

## Terebellidae, unid.

<i>Amaeana occidentalis</i>	
<i>Pista fasciata</i>	
<i>Pista ?disjuncta</i>	
<i>Pista sp. (juv.)</i>	
<i>Streblosoma crassibranchia</i>	30

## ARTHROPODA--CRUSTACEA

## Amphipoda

<i>Caprellidea, unid.</i>	20	30		
<i>Gammaridea, unid.</i>	20	10	450	20

## Copepoda

<i>Calanoida, unid.</i>			10	
<i>Cyclopoida, unid.</i>				
<i>Clausidium vancouverense</i>				
<i>Harpacticoida, unid.</i>				

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## ARTHROPODA CRUSTACEA (cont.)

Cumacea, unid.					
<i>Cyclaspis</i> sp.		20	10		10
<i>Diastylys</i> sp.					
<i>Diastylopsis tenuis</i>	20	290	130		40
<i>Oxyurostylus pacifica</i>	10	10	20		
Decapoda					
Decapod zoea larvae					
Anomura					
Paguridae					
<i>Pagurus</i> sp.			10		
Brachyura					
Canceridae					
<i>Cancer anthonyi</i>					
<i>Cancer gracilis</i> (juv.)	10				
<i>Cancer</i> sp. (juv.)			40		
Grapsidae					10
<i>Hemigrapsus oregonensis</i>					
<i>Hemigrapsus</i> sp. (juv.)					
Majidae					
<i>Pyromaria tuberculata</i>					
Pinnotheridae, unid.					
<i>Opisthopus transversus</i>				10	
<i>Pinnixa franciscana</i>					
<i>Pinnixa</i> sp.	10				
<i>Scleroplax granulata</i>					
Caridea					
Alpheidae, unid.					
<i>Alpheus californiensis</i>				10	
<i>Alpheus equidactylus</i>					
<i>Betaeus</i> sp. (frag.)					
Palaemonidae					
<i>Palaemonella holmesi</i>					
Macrura					
Callianassidea					
<i>Callianassa</i> sp.					
<i>Upogebia</i> sp.					
Isopoda, unid.					
<i>Edotea</i> sp.	20		40		
<i>Limnoria</i> sp.					
<i>Munna</i> sp.					
Mysidacea, unid.	10				10
Nebaliacea, unid.					
Ostracoda, unid.					
<i>Cylindroleberidinae</i> , unid.	10			50	
<i>Philomedes</i> sp.					
<i>Rutiderma rostrata</i>					
Tanaidacea, unid.					
<i>Anatanais normani</i>					
<i>Leptochelia</i> sp.					
Thoracica					
<i>Balanus pacificus</i>					

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## ARTHROPODA CRUSTACEA (cont.)

## Decapoda (cont.)

## Thoracica (cont.)

*Balanus tintinnabulum californicus*

110

*Balanus trigonus**Balanus sp.*

## ARTHROPODA--INSECTA

## Chironomidae, larvae

*Paraclunio alaskensis* (larvae)

## ARTHROPODA--PYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis*

10

*Pallenidae, unid.**Tantystylum intermedium*

10

## ASCHELMINTHES

Nematoda, unid.

110

20

## BRACIOPODA

*Glottidia albida*

## BRYOZOA (=ECTOPROCTA)

*Bowerbankia gracilis**Bugula neritina**Bugula stolonifera*(*=Bugula californica*)*Celleporaria brunnea**Cryptosula pallasiana**Schizoporella unicornis**Watersipora arcuata**Zoobotryon verticillatum*

## CHORDATA

## Cephalochordata

*Branchiostoma californiense*

## Osteichthys

## Gobiesocidae

*Gobiesox rhessodon*

## Gobieidae, unid.

## Gobieidae, larvae

*Clevelandia ios**Ilypnus gilberti**Lepidogobius lepidus*

## Urochordata

## Ascidacea, unid.

*Botryllus sp.**Ciona intestinalis**Mogula pugetensis**Styela clava**Styela plicata*

## CNIDARIA (=COELENTERATA)

## Anthozoa

10

## Actinaria, unid.

*Diadumene sp.**Edwardsia californica**Edwardsia nr. sippunculoides**Edwardsia sp. (juv.)*

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## CNIDARIA (Cont.)

## Anthozoa

- Actinaria, unid.
- Edwardsiidae*, unid.
- Mesacmaea* sp. A
- Ceriantharia, unid.
- Hydrozoa--Hydroida
  - Aglaophenia diversidentata*
  - Aglaophenia nr. pluma*
  - Corymorpha aurata*

## ECHINODERMATA

- Echinoidea, unid. (juv.)
  - Strongylocentrotus purpuratus*
- Holothuroidea, unid.
- Ophiuroidea, unid. (juv.)

110

## ECHURA

- Urechis caupo*

## HEMICORDATA

- Enteropneusta*, unid.

## MOLLUSCA --Gastropoda, unid. (juv.)

## Gastropoda--Ophistobranchia

- Cephalaspidea, unid.
  - Acteocina harpa*
  - Acteocina inculta*
  - Aglaja* sp.
  - Bulla gouldiana*
  - Rictaxis punctocaulatus*
  - Sulcoretusa* sp.
  - Woodbridgea* sp.

10

## Nudibranchia, unid.

- Acanthodoris* sp.
- Trinchesia* sp.

20

## Pyramidellida

- Odostoma* sp.

40

## Gastropoda--Prosobranchia

## Mesogastropoda

- Caecidae
  - Caecum* sp.
  - Fartulum* sp.
  - ?*Micranellium* sp.

30

## Calyptaridae

- Crepidula dorsata*
  - (=*Crepidatella lingulata*)
- Crepidula onyx*
- Crepidula preforans*
- Crepidula* sp. (juv.)

## Lamellariidae

- Lamellaria sharonae*

## Naticidae

- Neverita reclusiana*
- Sinum* sp.

## Vitrinellidae

- Vitrinella oldroydi*

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MOLLUSCA (cont.)					
Gastropoda--Prosobranchia (cont.)					
Neogastropoda					
Columbellidae					
<i>Mitrella carinata</i>					
<i>Mitrella sp.</i>					
Muricidae					
<i>Pteropurpura festiva</i>					
Nassariidae					
<i>Nassarius mendicus</i>					
<i>Nassarius perpinguis</i>					
<i>Nassarius sp.</i>					
Olividae					
<i>Olivella baetica</i>		10	20	40	10
Pyramidellidae					
<i>Turbanilla sp.</i>					
Turridae					
<i>Kurtziella plumbea</i>	20			20	
Pelecypoda, unid. (juv.)		10	60		40
Cardiidae					
<i>Laevicardium substriatum</i>				30	20
Cooperellidae					
<i>Cooperella subdiaphana</i>			20		
Donacidae					
<i>Donax gouldii</i>					
Erycinidae					
<i>Lasaea subviridis</i>			20		
Hiatellidae					
<i>Hiatella arctica</i>					
Leptonidae					
<i>"Lepton meroicum"</i>					
Lucinidae					
<i>Parvilucina tenuisculpta</i>					
(= <i>Parvilucina sp.</i> )					
Lyonsiidae					
<i>Lyonsia californica</i>					
Mactridae, unid. (juv.)				20	
<i>Mactra californica</i>				10	
<i>Mactra sp.</i>					
<i>Spisula catilliformis</i>		20		10	
<i>Spisula sp.</i>					
<i>Tresus nuttalli</i>					
Montacutidae					
<i>Orobitella sp.</i>					
<i>Mysella pedroana</i>					30
<i>Mysella sp.</i>				40	
Myidae					
<i>Cryptomya californica</i>		80			20
Mytilidae, unid. (juv.)		10		20	10
<i>Amygdalum sp.</i>					
<i>Modiolus sp.</i>					
<i>Mytilus edulis</i>					
Ostreidae					
<i>Ostrea lurida</i>					
Pectinidae					
<i>Leptopecten latiauratus</i>					

## HARBORS ENVIRONMENTAL Projects

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## STATION MDR 1

MOLLUSCA (cont.)					
Pelecypoda (cont.)					
Petricolidae					
<i>Petricola tellimyalis</i>					
<i>Petricola</i> sp.					
Semelidae					
<i>Cumingia californica</i>					
<i>Theora lubrica</i>					
solecurtidae					
<i>Tagelus subteres</i>				20	
Solenidae					
<i>Ensis myrae</i>				10	
<i>Siliqua lucida</i>			50		
<i>Solen</i> sp. (juv.)					
Tellinidae					
<i>Leporimetis obesa</i>					
<i>Macoma acolasta</i>				10	
<i>Macoma carlottensis</i>					
<i>Macoma nasuta</i>			10		
<i>Macoma</i> sp. (juv.)	10	20	20	10	
<i>Tellina modesta</i>		20		120	
<i>Tellina</i> sp. (juv.)	30		270	90	
Thyasiridae					
<i>Axinopsida serricata</i>					
<i>Thyasira flexuosa</i>					
Veneridae					
<i>Chione undatella</i>					
<i>Chione</i> sp. (juv.)					
<i>Protothaca staminea</i>					
<i>Protothaca</i> sp.	20	80	50		
<i>Saxidomus nuttalli</i>				30	
<i>Saxidomus</i> sp. (juv.)					
Polyplacophora, unid.					
NEMERTEA, unid.	30		20	480	110
PHORONIDA, unid.					
<i>Phoronis pallida</i>					
<i>Phoronis</i> sp.					
<i>Phoronopsis</i> sp.					
PLATYHELMINTHES					
<i>Polycladida</i> , unid.		10		100	
PROTOZOA					
Foraminifera					
<i>"Rosalina-like" forams</i>					
SIPUNCULIDA, unid.					

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## BENTHIC DATA

## STATION MDR 2

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<b>ANNELIDA</b>					
OLICOCHAET., unid.	480	140	120	550	1640
Tubificidae					
<i>Peloscolex gabriellae</i>	100				
<b>POLYCHAETA</b>					
Ampharetidae					
<i>Ampharete labrops</i>		90		30	40
<i>Amphicteis scaphobranchiata</i>		50	20	60	40
<i>Melinna oculata</i>					
Arabellidae, unid. (juv.)					
Capitellidae					
<i>Capitella capitata</i>	3090			20	
<i>Mediomastus acutus</i>					
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i> )	1030	1760	3840	5890	11600
<i>Notomastus tenuis</i>	100		820	400	920
Chaetopteridae, unid. (frag.)					
<i>Spiochaetopterus costarum</i>					
Chrysopetalidae					
<i>Chrysopetalum occidentale</i>					
<i>Paleanotus bellis</i>					
Cirratulidae, unid.					
<i>Caulieriella alata</i>				90	70
<i>Caulieriella bioculata</i>					80
<i>Caulieriella hanata</i>					
<i>Caulieriella sp.</i>					
<i>Chaetozone corona</i>				20	
<i>Chaetozone setosa</i>	30		370	90	
<i>Chaetozone sp.</i>					
<i>Cirratulus cirratus</i>					
<i>Cirriformia luxuriosa</i>					10
<i>Cirriformia sp (juv.)</i>					10
<i>Tharyx nr. tessellata</i>					
<i>Tharyx spp.</i>					100
Cossuridae					
<i>Cossura candida</i>					
<i>Cossura pygodactylata</i>					10
Ctenodrilidae					
<i>Ctenodrilus serratus</i>					
Dorvilleidae, unid.					
<i>Ophryotrocha puerilis</i>					
<i>Protodorvillea gracilis</i>					
<i>Schistomerings longicornis</i>	40	50	280	300	490
Flabelligeridae, unid.					
<i>Pherusa capulata</i>			30	10	
<i>Pherusa sp.</i>					
Glyceridae					
<i>Glycera americana</i>	10				10
<i>Glycera capitata</i>	10				
<i>Glycera convoluta</i>					10
<i>Glycera rouxi</i>	10				
<i>Glycera sp. (juv.)</i>				10	60

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POLYCHAETA (cont.)					
Goniadiidae, unid. (juv.)					10
<i>Glycinis amigera</i>					
<i>Goniada brunnea</i>					
<i>Goniada littorea</i>	20				
<i>Goniada sp.</i>			10		
Hesionidae, unid.					30
<i>Hesionidae, new genus</i>					
<i>Gyptis brevipalpa</i>					
<i>Gyptis brunnea</i>					
<i>Ophiodromus pugettensis</i>	20			10	
Lumbrineridae, unid.					340
<i>Lumbrineris ?crassidentata</i>					
<i>Lumbrineris erecta</i>					
<i>Lumbrineris ?tetaura</i>					
<i>Lumbrineris spp.</i>	20		190	110	270
Magelonidae					
<i>Magelona sacculata</i>					
Maldanidae, unid. (frag.)		10			
<i>Asychis sp.</i>					
<i>Axiothella sp.</i>					
Praxillellidae					
<i>Praxillella affinis pacifica</i>					
<i>Praxillella sp.</i>					
Nephtyidae, unid.					
<i>Nephtys caecoides</i>	50				30
<i>Nephtys californiensis</i>					
<i>Nephtys cornuta franciscana</i>	10			30	870
<i>Nephtys ferruginea</i>					
Nereidae, unid. (juv.)					
<i>Neanthes arenaceodentata</i>		10			
<i>Nereis latescens</i>	30		10	10	
<i>Nereis procera</i>					20
<i>Nereis sp. (juv.)</i>		10	10	10	
<i>?Perinereis monterea</i>					
<i>Platynereis bicanaliculata</i>	30		10	10	50
Onuphidae, unid. (juv.)					10
<i>Diopatra ornata</i>					
<i>Diopatra splendidissima</i>		70			
<i>Diopatra sp. (juv.)</i>	20		10	10	
Opheliidae					
<i>Armandia bioculata</i>	40			250	140
<i>Polyopthalmus pictus</i>		20	10	260	
Orbiniidae					
<i>Haploscoloplos elongatus</i>		10	60	150	
<i>Naineris dendritica</i>					
<i>Scoloplos acmeceps</i>					
Oweniidae					
<i>Owenia collaris</i>					
Paraonidae					
<i>Acesta catherinae</i>					
<i>Acesta horikoshii</i>					
<i>Paraonella platybranchia</i>					
(=Paraonides platybranchia)					



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POLYCHAETA (cont.)					
Spionidae, unid. (cont.)					
<i>Paraprionospio pinnata</i>				20	30
<i>Polydora ligni</i>				10	
<i>Polydora socialis</i>					
<i>Polydora sp.</i>					
<i>Prionospio cirrifera</i>	70		160	80	570
<i>Prionospio heterobranchia</i> (= <i>P. h. newportensis</i> )	10	510	190	850	90
<i>Prionospio pygmaeus</i>	120		20		
<i>Prionospio sp.</i>					
<i>Pseudopolydora paucibranchiata</i>			10		10
<i>Rhynchospi? arenicola</i>					
<i>Rhynchospi? sp.</i>					
<i>Scolelepis acuta</i> (= <i>Nerinides acuta</i> )	10	10	20		30
<i>Spio ?filicornis</i>					
<i>Spio maculata</i> (= <i>Nerinides maculata</i> )					
<i>Spiophanes missionensis</i>		10		10	10
<i>Streblospio benedicti</i>					
<i>Spirorbidae</i>					
<i>Janua brasiliensis</i>					
<i>Pileolaria pseudomilitaris</i>					
Syllidae, unid.	10				
<i>Autolytus sp.</i>					
<i>Brania sp.</i>					
<i>Eusyllis sp.</i>					
<i>Exogone gemmifera</i>					
<i>Exogone lourei</i>					
<i>Exogone verugera</i>					
<i>Exogone sp.</i>					
<i>Odontosyllis phosphorea</i>	10		10		
<i>Sphaerosyllis californiensis</i>	10		10		
<i>Sphaerosyllis sp.</i>					
<i>Syllides sp.</i>					
? <i>Syllis sp.</i>					
<i>Typosyllis ?hyalina</i>					
<i>Typosyllis sp.</i>					10
Terebellidae, unid.					
<i>Amaeana occidentalis</i>	10		310	30	
<i>Pista fasciata</i>					
<i>Pista ?disjuncta</i>	100			20	
<i>Pista sp. (juv.)</i>					
<i>Streblosoma crassibranchia</i>					
ARTHROPODA--CRUSTACEA					
Amphipoda					
<i>Caprellidea, unid.</i>	140		460	30	30
<i>Gammaridea, unid.</i>	240		50	10	10
Copepoda					
<i>Calanoida, unid.</i>					
<i>Cyclopoida, unid.</i>	30		10		
<i>Clausidium vancouverense</i>					
<i>Harpacticoida, unid.</i>					

## HARBORS ENVIRONMENTAL PROJECTS

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<b>ARTHROPODA CRUSTACEA (cont.)</b>					
Cumacea, unid.		10		10	30
<i>Cyclaspis sp.</i>					
<i>Diastylis sp.</i>					
<i>Diastylopsis tenuis</i>	130	10			
<i>Oxyurostylus pacifica</i>	190	160	40	40	30
Decapoda					
Decapod zoea larvae			20		
Anomura					
Paguridae					
<i>Pagurus sp.</i>					
Brachyura					
Canceridae					
<i>Cancer anthonyi</i>		70	10		40
<i>Cancer gracilis</i>					
<i>Cancer sp. (juv.)</i>			20		
Grapsidae					
<i>Hemigrapsus oregonensis</i>					
<i>Hemigrapsus sp. (juv.)</i>					
Majidae					
<i>Pyromais tuberculata</i>					
Pinnotheridae, unid.					
<i>Opisthopus transversus</i>					
<i>Pinnixa franciscana</i>					
<i>Pinnixa sp.</i>					20
<i>Scleroplaex granulata</i>					
Caridea					
Alpheidae, unid.					
<i>Alpheus californiensis</i>					
<i>Alpheus equidactylus</i>					
<i>Betaeus sp. (frag.)</i>					
Palaemonidae					
<i>Palaemonella holmesi</i>					
Macrura					
Callianassidea					
<i>Callianassa sp.</i>					
<i>Upogebia sp.</i>					
Isopoda, unid.	20		20	30	
<i>Edotea sp.</i>					
<i>Limnoria sp.</i>					
<i>Munna sp.</i>					
Mysidacea, unid.					
Nebaliacea, unid.					
Ostracoda, unid.			10		
<i>Cylindroleberidinae, unid.</i>					
<i>Philomedes sp.</i>					
<i>Rutiderma rostrata</i>					
Tanaidacea, unid.			40		
<i>Anatanaid normani</i>					
<i>Leptochelia sp.</i>					
Thoracica					
<i>Balanus pacificus</i>					

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## ARTHROPODA CRUSTACEA (cont.)

## Decapoda (cont.)

## Thoracica (cont.)

*Balanus tintinnabulum californicus*

40

*Balanus trigonus**Balanus sp.*

## ARTHROPODA--INSECTA

## Chironomidae, larvae

*Paraclunio alaskensis* (larvae)

10

## ARTHROPODA--PYCNOGONIDA

*Anoplodactylus erectus*

10

*Callipallene californiensis*

40

20

10

160

## Pallenidae, unid.

*Tantystylum intermedium*

## ASCHELMINTHES

## Nematoda, unid.

130

160

7300

16130

## BRACHIOPODA

*Glottidia albida*

10

## BRYOZOA (=ECTOPROCTA)

*Bowerbankia gracilis**Bugula neritina**Bugula stolonifera*(*Bugula californica*)*Celleporaria brunnea**Cryptosula pallasiana**Schizoporella unicornis**Watersipora arcuata**Zoobotryon verticillatum*

## CHORDATA

## Cephalochordata

*Branchiostoma californiense*

## Osteichthys

## Gobiesocidae

*Gobiesox rhessodon*

## Gobieidae, unid.

## Gobieidae, larvae

*Clevelandia ios*

10

*Ilypnus gilberti**Lepidogobius lepidus*

## Urochordata

## Ascidacea, unid.

*Botryllus sp.**Ciona intestinalis**Mogula pugetensis**Styela clava**Styela plicata*

## CNIDARIA (=COELENTERATA)

## Anthozoa

## Actinaria, unid.

*Diadumene sp.**Edwardsia californica**Edwardsia nr. sipunculoides**Edwardsia sp. (juv.)*

10

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## CNIDARIA (Cont.)

## Anthozoa

*Actinaria*, unid.*Edwardsiidae*, unid.*Mesacmaea* sp. A

20

*Ceriantharia*, unid.

## Hydrozoa--Hydroida

*Aglaophenia diversidentata**Aglaophenia* nr. *pluma**Corymorphia aurata*

## ECHINODERMATA

*Echinoidea*, unid. (juv.)

10

*Strongylocentrotus purpuratus**Holothuroidea*, unid.*Ophiuroidea*, unid. (juv.)

20

## ECHURA

*Urechis caupo*

## HEMICHORDATA

*Enteropneusta*, unid.

## MOLLUSCA --Gastropoda, unid. (juv.)

*Gastropoda*--*Ophisthobranchia**Cephalaspidea*, unid.

30

*Acteocina harpa*

10

50

*Acteocina inculta*

30

10

*Aglaja* sp.

10

20

20

*Bulla gouldiana**Rictaxis punctocaulatus**Sulcoretusa* sp.*Woodbridgea* sp.*Nudibranchia*, unid.

30

*Acanthodoris* sp.*Trinchesia* sp.*Pyramidellida**Odostomia* sp.*Gastropoda*--*Prosobranchia**Mesogastropoda**Caecidae**Caecum* sp.*Furtulum* sp.? *Micranellium* sp.*Calyptraeidae**Crepidula doreata*

40

 (= *Crepidatella lingulata*)*Crepidula onyx*

10

*Crepidula preforans**Crepidula* sp. (juv.)

10

*Lamellariidae**Lamellaria sharonae**Naticidae**Neverita reclusiana**Sinum* sp.*Vitrinellidae**Vitrinella oldroydi*

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## MOLLUSCA (cont.)

## Gastropoda--Prosobranchia (cont.)

## Neogastropoda

## Columbellidae

*Mitrella carinata*

20

*Mitrella sp.*

## Muricidae

*Pteropurpura festiva*

## Nassariidae

*Nassarius mendicus**Nassarius perpinguis**Nassarius sp.*

## Olividae

*Olivella baetica*

10

## Pyramidellidae

*Turbanilla sp.*

10

## Turridae

*Kurtziella plumbea*

## Pelecypoda, unid. (juv.)

260

230

290

40

## Cardiidae

*Iaevicardium substriatum*

160

620

590

## Cooperellidae

*Cooperella subdiaphana*

30

10

## Donacidae

*Donax gouldii*

## Erycinidae

*Lasaea subviridis*

## Hiatellidae

*Hiatella arctica*

20

## Leptonidae

*"Lepton meroeum"*

## Lucinidae

*Parvilucina tenuisculpta**(=Parvilucina sp.)*

## Lyonsiidae

*Lyonsia californica*

## Macridae, unid. (juv.)

30

*Mactra californica**Mactra sp.**Spisula catilliformis**Spisula sp.**Tresus nuttalli*

## Montacutidae

*Orobitella sp.**Mysella pedroana*

230

10

*Mysella sp.*

50

## Myidae

*Cryptomya californica*

10

## Mytilidae, unid. (juv.)

20

20

*Amygdalum sp.**Modiolus sp.**Mytilus edulis*

## Ostreidae

*Ostrea lurida*

## Pectinidae

*Leptopecten latiauratus*

## HARBORS ENVIRONMENTAL PROJECTS

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## MOLLUSCA (cont.)

## Pelecypoda (cont.)

## Petricolidae

*Petricola tellimyalis*

10

*Petricola sp.*

50

## Semelidae

*Cumingia californica*

30

*Theora lubrica*

## Solecurtidae

*Tagelus subteres*

190 10

## Solenidae

*Ensis myrae**Siliqua lucida*

100

*Solen sp. (juv.)*

## Tellinidae

*Leporimetis obesa*

210 390 80

*Macoma acolasta*

10 40

*Macoma carlottensis**Macoma nasuta*

10 30

*Macoma sp. (juv.)*

110 20 210

*Tellina modesta*

30 10 20

*Tellina sp. (juv.)*

50 80 60

## Thyasiridae

*Aixinopsida serricata**Thyasira flexuosa*

## Veneridae

*Chione ?undatella**Chione sp. (juv.)**Protobrachia staminea**Protobrachia sp.*

210 150 140

*Saxidomus nuttalli*

40 20 40

*Saxidomus sp. (juv.)**Polyplacophora, unid.*

NEMERTEA, unid.	30	200	280	430
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PHORONIDA, unid.			10	
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*Phoronis pallida**Phoronis sp.**Phoronopsis sp.*

PLATYHELMINTHES				
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*Polycladida, unid.*

20 10

PROTOZOA				
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*Foraminifera**"Rosalina-like" forams*

SIPUNCULIDA, unid.				
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**ANNELIDA**

OLIGOCHAET., unid.

Tubificidae

*Peloscolex gabriellae*

**POLYCHAETA**

Ampharetidae

*Ampharete labrops*

100

20

10

20

*Amphicteis scaphobranchiata*

90

10

*Melinna oculata*

10

10

Arabellidae, unid. (juv.)

Capitellidae

*Capitella capitata*

*Mediomastus acutus*

*Mediomastus californiensis*

(=*Capitita ambiseta*)

3420

770

2190

520

*Notomastus tenuis*

10

20

50

220

Chaetopteridae, unid. (frag.)

*Spiochaetopterus costarum*

Chrysopetalidae

*Chrysopetalum occidentale*

*Paleanotus bellis*

Cirratulidae, unid.

*Caulieriella alata*

30

70

130

20

*Caulieriella bioculata*

*Caulieriella hamata*

*Caulieriella sp.*

*Chaetozone corona*

60

20

40

50

*Chaetozone setosa*

*Chaetozone sp.*

*Cirratulus cirratus*

*Cirriformia luxuriosa*

50

*Cirriformia sp. (juv.)*

*Tharyx nr. tessellata*

*Tharyx spp.*

20

10

20

130

Cossuridae

*Cossura candida*

*Cossura pygodactylata*

50

20

Ctenodrilidae

*Ctenodrilus serratus*

Dorvilleidae, unid.

*Ophryotrocha puerilis*

10

*Protodorvillea gracilis*

*Schistomerings longicornis*

330

210

60

210

180

90

Flabelligeridae, unid.

*Pherusa capulata*

*Pherusa sp.*

20

Glyceridae

*Glycera americana*

10

20

50

40

*Glycera capitata*

50

*Glycera convoluta*

50

*Glycera rouxii*

50

30

200

*Glycera sp. (juv.)*

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## POLYCHAETA (cont.)

*Goniadidae*, unid. (juv.)

*Glycera armigera*

*Goniada brunnea*

*Goniada littorea*

*Goniada sp.*

*Hesionidae*, unid.

*Hesionidae*, new genus

*Gyptis brevipalpa*

*Gyptis brunnea*

*Ophiodromus pugettensis*

130

10

90

*Lumbrineridae*, unid.

*Lumbrineris ?crassidentata*

*Lumbrineris erecta*

*Lumbrineris ?tetaura*

*Lumbrineris spp.*

930

510

820

80

*Magelonidae*

*Magelona sacculata*

*Maldanidae*, unid. (frag.)

*Asychis sp.*

*Axiothella sp.*

*Praxillella affinis pacifica*

*Praxillella sp.*

*Nephtyidae*, unid.

*Nephtys caecoides*

10

10

10

*Nephtys californiensis*

*Nephtys cornuta franciscana*

80

*Nephtys ferruginea*

*Nereidae*, unid. (juv.)

10

*Neanthes arenaceodentata*

*Nereis latescens*

10

*Nereis procera*

30

*Nereis sp.* (juv.)

?*Perinereis monterea*

*Platynereis bicanaliculata*

110

*Ornithidae*, unid. (juv.)

*Diopatra ornata*

*Diopatra splendidissima*

*Diopatra sp.* (juv.)

30

*Opheliidae*

*Armandia bioculata*

380

40

470

30

*Polyopthalmus pictus*

30

170

20

*Orbiniidae*

*Haploscoloplos elongatus*

180

30

180

220

270

*Naineris dendritica*

*Scoloplos acmeceps*

*Oweniidae*

*Owenia collaris*

10

*Paracnidae*

*Acesta catherinae*

10

*Acesta horikoshii*

*Paraonella platybranchia*

(=Paraonides platybranchia)

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## POLYCHAETA (cont.)

## Pectinariidae

*Pectinaria californiensis*  
(=*P. c. newportensis*)

Phyllodocidae, unid.  
*Anaitides nr. papillosa*

*Anaitides sp. (juv.)*

*Eteone californica*

*Eteone dilatata*

*Eteone sp.*

*Eulalia aviculifera*

*Eulalia ?myriacyclum*

*Eulalia quadrioculata*

*Eulalia sp. (juv.)*

*Eumida bifoliata*

10

10

30

*Eumida sanguinea*

?*Genetyllis castanea*

*Hesionura coineaei difficilis*

10

*Phyllocoelus sp.*

## Pilaridae

*Ancistrosyllis hamata*

*Sigambra tentaculata*

## Polynoidae, unid. (frag.)

10

*Halosydna johnsoni*

*Halosydna sp.*

*Harmothoe ?crassicirrata*

10

*Harmothoe hirsuta*

*Harmothoe imbricata*

*Harmothoe priops*

20

*Harmothoe scriptoria*

20

10

40

*Harmothoe sp.*

*Lepidonotus ?squamatus*

10

## Sabellariidae

*Sabellaria cementarium*

## Sabellidae, unid.

40

*Chone ecaudata*

*Chone sp.*

10

80

60

80

*Euchone limnicola*

*Megalomma pigmentum*

*Myricola ?infundibulum*

?*Potamilla sp.*

## Scalabregmidae

*Scalabregma inflatum*

## Serpulidae

*Eupomatus gracilis*

10

*Hydroïdes pacifica*

## Sigalionidae

*Pholoe glabra*

10

*Sthenelanella uniformis*

*Sthenelais verruculosa*

## Spionidae, unid.

10

*Boccardia sp.*

10

*Boccardiella hamata*

(=*Boccardia hamata*)

*Laonice cirrata*

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<b>POLYCHAETA (cont.)</b>					
<b>Spionidae, unid. (cont.)</b>					
<i>Parapriionospio pinnata</i>	30	40	30		
<i>Polydora ligni</i>					
<i>Polydora socialis</i>					
<i>Polydora sp.</i>					
<i>Prionospio cirrijera</i>	60	190	30		
<i>Prionospio heterobranchia</i> (= <i>P. h. newportensis</i> )	1120	170	1550	2690	110 760
<i>Prionospio pygmaeus</i>			40	20	20
<i>Prionospio sp.</i>					
<i>Pseudopolydora paucibranchiata</i>			160		
<i>Rhynchospius ?arenicola</i>					
<i>Rhynchospius sp.</i>					
<i>Scolelepis acuta</i> (= <i>Nerinides acuta</i> )	20		70	190	
<i>Spio ?filicornis</i>					
<i>Spio maculata</i> (= <i>Nerinides maculata</i> )					40
<i>Spiophanes missionensis</i>	40	10	10	50	40
<i>Streblospio benedicti</i>	10			10	
<b>Spirorbidae</b>					
<i>Janua brasiliensis</i>					
<i>Pileolaria pseudomilitaris</i>					
<b>Syllidae, unid.</b>					
<i>Autolytus sp.</i>					
<i>Brania sp.</i>					
<i>Eusyllis sp.</i>					
<i>Exogone gemmifera</i>					
<i>Exogone Lourei</i>					
<i>Exogone verugera</i>					
<i>Exogone sp.</i>					
<i>Odontosyllis phosphorea</i>					
<i>Sphaerosyllis californiensis</i>					
<i>Sphaerosyllis sp.</i>					
<i>Syllides sp.</i>					
? <i>Syllis sp.</i>					
<i>Typosyllis ?hyalina</i>					
<i>Typosyllis sp.</i>				20	
<b>Terebellidae, unid.</b>					10
<i>Amaeana occidentalis</i>	20		10	100	
<i>Pista fasciata</i>	10				
<i>Pista ?disjuncta</i>					
<i>Pista sp. (juv.)</i>	20			10	
<i>Streblosoma crassibranchia</i>					
<b>ARTHROPODA—CRUSTACEA</b>					
<b>Amphipoda</b>					
<i>Caprellidea, unid.</i>		220	680		
<i>Gammaridea, unid.</i>	120	60	390	160	
<b>Copepoda</b>					
<i>Calanoida, unid.</i>					
<i>Cyclopoidae, unid.</i>				20	
<i>Clausidium vancouverense</i>	10				
<i>Harpacticoida, unid.</i>					

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## ARTHROPODA CRUSTACEA (cont.)

## Cumacea, unid.

<i>Cyclaspis</i> sp.					10
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<i>Diastylis</i> sp.					
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<i>Diastylopsis tenuis</i>		10			
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<i>Oxyurostylus pacifica</i>	50	270	40	10	
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## Decapoda

Decapod zoea larvae		10			
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## Anomura

Paguridae					
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<i>Pagurus</i> sp.					
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## Brachyura

## Canceridae

<i>Cancer anthonyi</i>	30				
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<i>Cancer gracilis</i>					
------------------------	--	--	--	--	--

<i>Cancer</i> sp. (juv.)			10		
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## Grapsidae

<i>Hemigrapsus oregonensis</i>	10				
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<i>Hemigrapsus</i> sp. (juv.)					
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## Majidae

<i>Pyromaria tuberculata</i>	10				
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## Pinnotheridae, unid.

<i>Opisthopus transversus</i>					
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<i>Pinnixa franciscana</i>					
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<i>Pinnixa</i> sp.					
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<i>Scleroplax granulata</i>	80				
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## Caridea

## Alpheidae, unid.

<i>Alpheus californiensis</i>					
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<i>Alpheus equidactylus</i>					
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<i>Betaeus</i> sp. (frag.)	10				
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## Palaemonidae

<i>Palaemonella holmesi</i>	10				
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## Macrura

## Callianassidea

<i>Callianassa</i> sp.	70				
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<i>Upogebia</i> sp.					
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## Isopoda, unid.

<i>Edotea</i> sp.					
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<i>Limnoria</i> sp.					
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<i>Munna</i> sp.					
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## Mysidacea, unid.

## Nebaliacea, unid.

## Ostracoda, unid.

<i>Cylindroleberidinae</i> , unid.	20				
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50					
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<i>Philomedes</i> sp.					
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<i>Rutiderma rostrata</i>					
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10					
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## Tanaidacea, unid.

<i>Anatanais normani</i>					
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10					
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<i>Leptochelia</i> sp.					
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## Thoracica

<i>Balanus pacificus</i>					
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## ARTHROPODA CRUSTACEA (cont.)

## Decapoda (cont.)

## Thoracica (cont.)

*Balanus tintinnabulum californicus*

10

*Balanus trigonus**Balanus sp.*

## ARTHROPODA--INSECTA

## Chironomidae, larvae

*Paraclunio alaskensis* (larvae)

## ARTHROPODA--PYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis*

10

10

*Pallenidae, unid.**Tantystylum intermedium*

## ASCHELMINTHES

## Nematoda, unid.

10

90

30

## BRACIOPODA

*Glottidia albida*

## BRYOZOA (=ECTOPROCTA)

*Bowerbankia gracilis*

1 col

*Bugula neritina*

1 col 1 col

*Bugula stolonifera*

(=Bugula californica)

*Celleporaria browniae**Cryptosula pallasiana**Schizoporella unicornis**Watersipora arcuata**Zoobotryon verticillatum*

## CHORDATA

## Cephalochordata

*Branchiostoma californiense*

## Osteichthys

## Gobiesocidae

*Gobiesox rhessodon*

## Gobieidae, unid.

## Gobieidae, larvae

*Clevelandia ios**Ilypnus gilberti**Lepidogobius lepidus*

## Urochordata

## Ascidacea, unid.

*Botryllus sp.**Ciona intestinalis**Mogula pugetiensis**Styela clava**Styela plicata*

## CNIDARIA (=COELENTERATA)

## Anthozoa

10

## Actinaria, unid.

*Diadumene sp.**Edwardsia californica*

10

*Edwardsia nr. eipunculoides**Edwardsia sp. (juv.)*

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<b>CNIDARIA (Cont.)</b>					
<b>Anthozoa</b>					10
Actinaria, unid.					
Edwardsiidae, unid.		10			
Mesacmaea sp. A					
Ceriantharia, unid.					
<b>Hydrozoa--Hydroida</b>					
Aglaophenia diversidentata				10	10
Aglaophenia nr. pluma					
Corymorphia aurata	10				
<b>ECHINODERMATA</b>					
Echinoidea, unid. (juv.)					
Strongylocentrotus purpuratus	10				10
Holothuroidea, unid.					
Ophiuroidea, unid. (juv.)	30	10			
<b>ECHURA</b>					
Urechis caupo					
<b>HEMICORDATA</b>					
Enteropneusta, unid.					
<b>MOLLUSCA--Gastropoda</b> , unid. (juv.)	10				
Gastropoda--Ophistobranchia					10
Cephalaspidea, unid.					
Acteocina harpa			20		
Acteocina inculta		10		40	
Aglaja sp.	90		20	40	
Bulla gouldiana					
Rictaxis punctocaulatus			10		
Sulcoretusa sp.					
Woodbridgea sp.					
Nudibranchia, unid.	10				
Acanthodoris sp.					
Trinchesia sp.					
Pyramidellida					
Odostomia sp.					
Gastropoda--Prosobranchia					
Mesogastropoda					
Caecidae					80
Caecum sp.					30
Fartulum sp.			110		
?Micranellium sp.		30		50	
Calyptraeidae					
Crepidula dorsata		50			
(=Crepidatella lingulata)					
Crepidula onyx	60			10	
Crepidula prefornata					
Crepidula sp. (juv.)			20		
Lamelliariidae					
Lamellaria sharonae					
Naticidae					
Neverita reclusiana					
Sinum sp.					
Vitrinellidae					
Vitrinella oldroydi					

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## MOLLUSCA (cont.)

## Gastropoda--Prosobranchia (cont.)

## Neogastropoda

## Columbellidae

*Mitrella carinata**Mitrella sp.*

## Muricidae

*Pteropurpura festiva*

## Nassariidae

*Nassarius mendicus**Nassarius perpinguis**Nassarius sp.*

## Olividae

*Olivella baetica*

## Pyramidellidae

*Turbanilla sp.*

## Turridae

*Kurtziella plumbea*

## Pelecypoda, unid. (juv.)

40	30	40	40	30	10
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## Cardiidae

*Laevicardium substriatum*

30	280	240	100		
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## Cooperellidae

*Cooperella subdiaphana*

## Donacidae

*Donax gouldii*

10

## Erycinidae

*Lasaea subviridis*

10

## Hiatellidae

*Hiatella arctica*

## Leptonidae

*"Lepton meroeum"*

## Lucinidae

*Parvilucina tenuisculpta**(=Parvilucina sp.)*

## Lyonsiidae

*Lyonsia californica*

## Mactridae, unid. (juv.)

*Mactra californica**Mactra sp.*

20

*Spisula catilliformis**Spisula sp.**Tresus nuttalli*

## Montacutidae

*Orobitella sp.*

380

*Mysella pedroana*

150

*Mysella sp.*

30

10

## Myidae

*Cryptomya californica*

## Mytilidae, unid. (juv.)

50

10

*Amygdalum sp.**Modiolus sp.**Mytilus edulis*

## Ostreidae

*Ostrea lurida*

## Pectinidae

*Leptopecten latiauratus*

10

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MOLLUSCA (cont.)					
Pelecypoda (cont.)					
Petricolidae					
<i>Petricola tellinialis</i>					
<i>Petricola</i> sp.	20				
Semelidae					
<i>Cumingia californica</i>					
<i>Theora lubrica</i>	100				
Solecurtidae					
<i>Tagelus subteres</i>			360	290	10
Solenidae					
<i>Ensis myrae</i>					
<i>Siliqua lucida</i>	360	70			
<i>Solen</i> sp. (juv.)		10			
Tellinidae					
<i>Leporimetis obesa</i>	460	30	340	250	60
<i>Macoma acolasta</i>	10				
<i>Macoma carlottensis</i>					
<i>Macoma nasuta</i>	60		10	30	
<i>Macoma</i> sp. (juv.)	10				20
<i>Tellina modesta</i>					
<i>Tellina</i> sp. (juv.)	150		20		10
Thyasiridae					
<i>Axinopsida serricata</i>			10		
<i>Thyasira flexuosa</i>					
Veneridae					
<i>Chione ?undatella</i>					
<i>Chione</i> sp. (juv.)					
<i>Protothaca staminea</i>					
<i>Protothaca</i> sp.	180	30	470	400	120
<i>Saxidomus nuttalli</i>		20			
<i>Saxidomus</i> sp. (juv.)			140	40	
Polyplacophora, unid.					
NEMERTEA, unid.	350	250	130	50	140
PHORONIDA, unid.			20		
<i>Phoronis pallida</i>					
<i>Phoronis</i> sp.	10		10	10	
<i>Phoronopsis</i> sp.					
PLATYHELMINTHES					
<i>Polycladida</i> , unid.	10	20	20	23	50
PROTOZOA					
Foraminifera					
"Rosalina-like" forams					
SIPUNCULIDA, unid.				10	

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<b>ANELLIDA</b>						
OLIGOCHAETA, unid.	320	10	40		230	
Tubificidae						
<i>Peloscolex gabriellae</i>						
<b>POLYCHAETA</b>						
Ampharetidae						
<i>Ampharete labrops</i>				10	50	
<i>Amphicteis scaphobranchiata</i>	10		30			20
<i>Melinna oculata</i>						
Arabellidae, unid. (juv.)						
Capitellidae						
<i>Capitella capitata</i>					20	
<i>Mediomastus acutus</i>						
<i>Mediomastus californiensis</i> (=Capitita ambiseta)	4850	3660	4880	1090	1730	
<i>Notomastus tenuis</i>	90	40	310	220	370	
Chaetopteridae, unid. (frag.)				10		
<i>Spiochaetopterus costarum</i>						
Chrysopetalidae						
<i>Chrysopetalum occidentale</i>						
<i>Paleanotus bellis</i>						10
Cirratulidae, unid.						
<i>Caulieriella alata</i>	70	10	10	180	60	
<i>Caulieriella bioculata</i>					20	
<i>Caulieriella humata</i>						
<i>Caulieriella sp.</i>						
<i>Chaetozone corona</i>	370	50	160	190	20	
<i>Chaetozone setosa</i>	170	50	30	160	140	
<i>Chaetozone sp.</i>						
<i>Cirratulus cirratus</i>						
<i>Cirriformia luxuriosa</i>		20				
<i>Cirriformia sp (juv.)</i>						
<i>Tharyx nr. tessellata</i>						
<i>Tharyx spp.</i>	140	170	210	120	80	
Cossuridae						
<i>Cossura candida</i>						
<i>Cossura pygodactylata</i>	2620	110	140	20		
Ctenodrilidae						
<i>Ctenodrilus serratus</i>						
Dorvilleidae, unid.						
<i>Ophryotrocha puerilis</i>				10		
<i>Protodorvillea gracilis</i>						
<i>Schistomerings longicornis</i>	1070	90	120	290	540	
Flabelligeridae, unid.						
<i>Pherusa capulata</i>				20		
<i>Pherusa sp.</i>						
Glyceridae						
<i>Glycera americana</i>	20		10	10	20	
<i>Glycera capitata</i>	100					
<i>Glycera convoluta</i>	10					
<i>Glycera intestinalis</i>		20				
<i>Glycera sp. (juv.)</i>					180	

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<b>POLYCHAETA (cont.)</b>					
Goniadidae, unid. (juv.)					
<i>Glycera armigera</i>					
<i>Goniada brunnea</i>	190				20
<i>Goniada littorea</i>		140	130		90
<i>Goniada sp.</i>					
Hesionidae, unid.					
<i>Hesionidae, new genus</i>					
<i>Gyptis brevipalpa</i>	10		20		
<i>Gyptis brunnea</i>					
<i>Ophiodromus pugettensis</i>	20				10
Lumbrineridae, unid.					
<i>Lumbrineris ?crassidentata</i>					
<i>Lumbrineris erecta</i>					
<i>Lumbrineris ?tetaura</i>					
<i>Lumbrineris spp.</i>	3340	1980	2160	1220	1560
Magelonidae					
<i>Magelona sacculata</i>					
Maldanidae, unid. (frag.)					
<i>Asychis sp.</i>					
Axiothella sp.					
Praxillella affinis pacifica					10
Praxillella sp.					
Nephtyidae, unid.					
<i>Nephtys caecoides</i>	20	100	30	10	
<i>Nephtys californiensis</i>					20
<i>Nephtys cornuta franciscana</i>	80				
<i>Nephtys ferruginea</i>					
Nereidae, unid. (juv.)					
<i>Neanthes arenaceodentata</i>	20				
<i>Nereis latescens</i>				10	
<i>Nereis procer</i>					
<i>Nereis sp. (juv.)</i>					
<i>?Perinereis monterea</i>					
<i>Platynereis bicanaliculata</i>					30
Onuphidae, unid. (juv.)					
<i>Diopatra ornata</i>					
<i>Diopatra splendidissima</i>					
<i>Diopatra sp. (juv.)</i>		10			
Opheliidae					
<i>Armandia bioculata</i>	70			80	30
<i>Polyopthalamus pictus</i>				10	
Orbiniidae					
<i>Haploscoloplos elongatus</i>	270	110	390	820	580
<i>Naineris dendritica</i>					
<i>Scoloplos acmeceps</i>					
Oweniidae					
<i>Owenia collaris</i>					
Paracnidae					
<i>Acesta catherinae</i>			10		
<i>Acesta horikoshii</i>					
<i>Paraonella platybranchia</i>				10	
(=Paraonides platybranchia)					

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## POLYCHAETA (cont.)

## Pectinariidae

*Pectinaria californiensis*  
(=*P. c. newportensis*)

## Phyllodocidae, unid.

*Anaitides nr. papillosa*

20

*Anaitides sp. (juv.)*

*Eteone californica*

10

*Eteone dilatae*

*Eteone sp.*

*Eulalia aviculifera*

*Eulalia ?myriacyclum*

*Eulalia quadricornuta*

*Eulalia sp. (juv.)*

*Eumida bifoliata*

40

10

60

*Eumida sanguinea*

?*Genetyllis castanea*

*Hesionura coineae difficilis*

*Phyllocoete sp.*

40

20

20

10

## Pilaridiidae

*Ancistrosyllis hamata*

*Sigambla tentaculata*

## Polynoidae, unid. (frag.)

*Halosydna johnsoni*

*Halosydna sp.*

*Harmothoe ?crassicirrata*

*Harmothoe hirsuta*

*Harmothoe imbricata*

*Harmothoe priops*

10

50

*Harmothoe scriptoria*

230

230

80

*Harmothoe sp.*

80

20

*Lepidonotus ?squamus*

## Sabellariidae

*Sabellaria cementarium*

## Sabellidae, unid.

*Chone ecaudata*

*Chone sp.*

70

60

110

*Euchone limnicola*

*Megalomma pigmentum*

10

*Myxicola ?infundibulum*

?*Potamilla sp.*

## Scalabregmidae

*Scalabregma inflation*

10

## Serpulidae

*Eupomatus gracilis*

250

60

*Hydroïdes pacifica*

20

40

## Sigalionidae

*Pholoe glabra*

10

10

*Sthenelanella uniformis*

*Sthenelais verruculosa*

## Spionidae, unid.

*Boccardia sp.*

*Boccardiella hamata*

(=*Boccardia hamata*)

*Laonice cirrata*

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BENTHIC DATA

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<b>POLYCHAETA (cont.)</b>						
Spionidae, unid. (cont.)						
<i>Parapriionospio pinnata</i>	10	10				
<i>Polydora ligni</i>				10		
<i>Polydora socialis</i>						
<i>Polydora sp.</i>	10		30	10		
<i>Prionospio cirrifera</i>	580	40	170	80	30	
<i>Prionospio heterobranchia</i>	1390	130	580	2300	1170	
(=P. h. newportensis)						
<i>Prionospio pygmæus</i>	30	10		600	100	
<i>Prionospio sp.</i>						
<i>Pseudopolydora paucibranchiata</i>			420	520	10	
<i>Rhynchospio ?arenicola</i>						
<i>Rhynchospio sp.</i>						
<i>Scolelepis acuta</i>	40	70	310	300	120	
(=Nerinides acuta)						
<i>Spio ?filicornis</i>						
<i>Spio maculata</i>						
(=Nerinides maculata)						
<i>Spiophanes missionensis</i>	90		10	40	270	
<i>Streblospio benedicti</i>	40	10	50	130		
<b>Spirorbidae</b>						
<i>Janua brasiliensis</i>						
<i>Pileolaria pseudomilitaris</i>						
<b>Syllidae, unid.</b>						
<i>Autolytus sp.</i>					30	
<i>Brania sp.</i>					20	
<i>Eusyllis sp.</i>						
<i>Exogone gemmifera</i>						
<i>Exogone lourei</i>						
<i>Exogone verugera</i>						
<i>Exogone sp.</i>						
<i>Odontosyllis phosphorea</i>						
<i>Sphaerosyllis californiensis</i>	20				10	
<i>Sphaerosyllis sp.</i>						
<i>Syllides sp.</i>						
<i>?Syllis sp.</i>						
<i>Typosyllis ?hyalina</i>			20	110	10	
<i>Typosyllis sp.</i>						
<b>Terebellidae, unid.</b>						
<i>Amaeana occidentalis</i>	450	360	490	140	130	
<i>Pista fasciata</i>			20			
<i>Pista ?disjuncta</i>	10					
<i>Pista sp. (juv.)</i>					10	
<i>Streblosoma crassibranchia</i>						
<b>ARTHROPODA--CRUSTACEA</b>						
<b>Amphipoda</b>						
<i>Caprellidea, unid.</i>		10	220	10	10	
<i>Gammaridea, unid.</i>		40	660	50	40	
<b>Copepoda</b>						
<i>Calanoida, unid.</i>						
<i>Cyclopoida, unid.</i>						
<i>Clausidium vancouverense</i>	70	30	40			
<i>Harpacticoida, unid.</i>			10	10		

## HARBORS ENVIRONMENTAL PROJECTS

## BENTHIC DATA

## STATION MDR 4

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<b>ARTHROPODA CRUSTACEA (cont.)</b>					
Cumacea, unid.				10	30
<i>Cyclaspis</i> sp.					10
<i>Diastylis</i> sp.					
<i>Diastylopsis tenuis</i>	40	10			
<i>Oxyurostylus pacifica</i>	20	10			
Decapoda					
Decapod zoea larvae		10			
Anomura					
Paguridae					
<i>Pagurus</i> sp.					
Brachyura					
Canceridae					
<i>Cancer anthonyi</i>					
<i>Cancer gracilis</i>					
<i>Cancer</i> sp. (juv.)					
Grapsidae					
<i>Hemigrapsus oregonensis</i>			20		
<i>Hemigrapsus</i> sp. (juv.)					
Majidae					
<i>Pyromaria tuberculata</i>					10
Pinnotheridae, unid.					
<i>Opisthopus transversus</i>					
<i>Pinnixa franciscana</i>				10	
<i>Pinnixa</i> sp.				10	
<i>Scleroplax granulata</i>	310	150	60	10	
Caridea					
Alpheidae, unid.					
<i>Alpheus californiensis</i>			30		
<i>Alpheus equidactylus</i>					
<i>Betaeus</i> sp. (frag.)		10			
Palaemonidae					
<i>Palaemonella holmesi</i>					
Macrura					
Callianassidea					
<i>Callianassa</i> sp.	180	30	40	50	
<i>Upogebia</i> sp.					
Isopoda, unid.			160	10	
<i>Edotea</i> sp.					
<i>Limnoria</i> sp.					
<i>Morva</i> sp.					
Mysidacea, unid.				10	
Nebaliacea, unid.					
Ostracoda, unid.			10		
<i>Cylindroleberidinae</i> , unid.					
<i>Philomedes</i> sp.					
<i>Rutiderma rostrata</i>					
Tanaidacea, unid.					
<i>Anatanaid normani</i>					
<i>Leptochelia</i> sp.					
Thoracica					
<i>Balanus pacificus</i>					

## HARBORS ENVIRONMENTAL PROJECTS

## BENTHIC DATA

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STATION MDR 4

## ARTHROPODA CRUSTACEA (cont.)

## Decapoda (cont.)

## Thoracica (cont.)

- Balanus tintinnabulum californicus*
- Balanus trigonus*
- Balanus sp.*

## ARTHROPODA--INSECTA

## Chironomidae, larvae

*Paracladius alaskensis* (larvae)

## ARTHROPODA--PYCNOGONIDA

- Anoplodactylus erectus*
- Callipallene californiensis*
- Pallenidae, unid.*
- Tantystylum intermedium*

10	80
----	----

30

## ASCHELMINTHES

## Nematoda, unid.

20	10	210
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## BRACHIOPODA

*Glottidia albida*

## BRYOZOA (=ECTOPROCTA)

- Bowerbankia gracilis*
- Bugula neritina*
- Bugula stolonifera*  
(=*Bugula californica*)
- Celleporaria brunnea*
- Cryptosula pallasiana*
- Schizoporella unicornis*
- Watersipora arcuata*
- Zoobotryon verticillatum*

10

## CHORDATA

## Cephalochordata

*Branchiostoma californiense*

## Osteichthys

## Gobiesocidae

*Gobiesox rhessodon*

## Gobieidae, unid.

## Gobieidae, larvae

*Clevelandia ios**Ilypnus gilberti**Lepidogobius lepidus*

10

30

## Urochordata

## Ascidacea, unid.

*Botryllus sp.**Ciona intestinalis**Mogula pugetiensis**Styela clava**Styela plicata*

10

20

## CNIDARIA (=COELENTERATA)

## Anthozoa

## Actinaria, unid.

*Diadumene sp.**Edwardsia californica**Edwardsia nr. sippunculoides**Edwardsia sp. (juv.)*

10

## HARBORS ENVIRONMENTAL PROJECTS

## BENTHIC DATA

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## CNIDARIA (Cont.)

Anthozoa				30		
Actinaria, unid.						
Edwardsiidae, unid.						
Mesacmaea sp. A						
Ceriantharia, unid.						
Hydrozoa--Hydriida						
Aglaophenia diversidentata						
Aglaophenia nr. pluma						
Corymorphia aurata						

## ECHINODERMATA

Echinoidea, unid. (juv.)						
Strongylocentrotus purpuratus						
Holothuroidea, unid.						
Ophiuroidea, unid. (juv.)		10			10	

## ECHURA

*Urechis caupo*

## HEMICORDATA

*Enteropneusta*, unid.

## MOLLUSCA--Gastropoda, unid. (juv.)

Gastropoda--Ophistobranchia						
Cephalaspidea, unid.						
Acteocina harpa				10		
Acteocina inculta					10	
Aglaja sp.				10	10	
Bulla gouldiana						
Rictaxis punctocaulatus						
Sulcoretusa sp.						10
Woodbridgea sp.						
Nudibranchia, unid.						

*Acanthodoris* sp.

*Trinchesia* sp.

## Pyramidellida

*Odostomia* sp.

## Gastropoda--Prosobranchia

## Mesogastropoda

## Caecidae

*Caecum* sp.

*Fartulium* sp.

?Micranellium sp.

## Calyptraeidae

*Crepidula* dorsata

(=*Crepidatella lingulata*)

*Crepidula* onyx

*Crepidula* perforans

*Crepidula* sp. (juv.)

## Lamellariidae

*Lamellaria* sharonae

## Naticidae

*Neverita* reclusiana

*Sinum* sp.

## Vitrinellidae

*Vitrinella oldroydi*

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HARBORS ENVIRONMENTAL PROJECTS  
BENTHIC DATA

STATION MDR 4

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## MOLLUSCA (cont.)

## Gastropoda--Prosobranchia (cont.)

Neogastropoda					
Columbellidae					
<i>Mitrella carinata</i>					
<i>Mitrella sp.</i>					
Muricidae					
<i>Pteropurpura festiva</i>					
Nassariidae					
<i>Nassarius mendicus</i>					
<i>Nassarius perpinguis</i>					
<i>Nassarius sp.</i>					
Olividae					
<i>Olivella baetica</i>					
Pyramidellidae					
<i>Turbanilla sp.</i>					
Turridae					
<i>Kurtziella plumbea</i>					
Pelecypoda, unid. (juv.)	30			40	
Cardiidae					
<i>Laevicardium substriatum</i>		10		20	20
Cooperellidae					
<i>Cooperella subdiaphana</i>					
Donacidae					
<i>Donax gouldii</i>					
Erycinidae					
<i>Lasaea subviridis</i>					
Hiatellidae					
<i>Hiatella arctica</i>					
Leptonidae					
<i>"Lepton meroeum"</i>				10	
Lucinidae					
<i>Parvilucina tenuisculpta</i>				10	
( <i>=Parvilucina sp.</i> )					
Lyonsiidae					
<i>Lyonsia californica</i>				10	
Mactridae, unid. (juv.)					
<i>Mactra californica</i>	20				
<i>Mactra sp.</i>					
<i>Spisula catilliformis</i>					
<i>Spisula sp.</i>					
<i>Tresus nuttalli</i>					
Montacutidae					
<i>Orobitella sp.</i>				90	150
<i>Mysella pedroana</i>	20	10	20		
<i>Mysella sp.</i>					
Myidae					
<i>Cryptomya californica</i>			10		
Mytilidae, unid. (juv.)	100				190
<i>Amygdalum sp.</i>					
<i>Modiolus sp.</i>					
<i>Mytilus edulis</i>				10	
Ostreidae					
<i>Ostrea lurida</i>					
Pectinidae					
<i>Leptopecten latiauratus</i>					

## HARBORS ENVIRONMENTAL PROJECTS

## BENTHIC DATA

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MOLLUSCA (cont.)					
Pelecypoda (cont.)					
Petricolidae					
<i>Petricola tellimyalis</i>					
<i>Petricola</i> sp.					
Semelidae					
<i>Cumingia californica</i>					
<i>Theora lubrica</i>					
Solecurtidae					
<i>Tagelus subteres</i>					
Solenidae					
<i>Ensis myrae</i>					
<i>Siliqua lucida</i>					
<i>Solen</i> sp. (juv.)					
Tellinidae					
<i>Leporimetis obesa</i>					
<i>Macoma acolasta</i>					
<i>Macoma carlottensis</i>					
<i>Macoma nasuta</i>					
<i>Macoma</i> sp. (juv.)					
<i>Tellina modesta</i>					
<i>Tellina</i> sp. (juv.)					
Thyasiridae					
<i>Axinopsida serricata</i>					
<i>Thyasira flexuosa</i>					
Veneridae					
<i>Chione ?undatella</i>					
<i>Chione</i> sp. (juv.)					
<i>Protobrachia staminea</i>					
<i>Protobrachia</i> sp.					
<i>Saxidomus nuttalli</i>					
<i>Saxidomus</i> sp. (juv.)					
<i>Polyplacophora</i> , unid.					
NEMERTEA, unid.					
PHORONIDA, unid.					
<i>Phoronis pallida</i>					
<i>Phoronis</i> sp.					
<i>Phoronopsis</i> sp.					
PLATYHELMINTHES					
<i>Polycladida</i> , unid.					
PROTOZOA					
Foraminifera					
"Rosalina-like" forams					
SIPUNCULIDA, unid.					

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## HARBORS ENVIRONMENTAL PROJECTS

## BENTHIC DATA

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## ANNELIDA

OLIGOCHAETA, unid.	110	30	20	100	40
Tubificidae					
<i>Peloscolex gabriellae</i>					
POLYCHAETA					
Ampharetidae					
<i>Ampharete labrops</i>					10
<i>Amphicteis scaphobranchiata</i>	10	10			30
<i>Melinna oculata</i>					
Arabellidae, unid. (juv.)					
Capitellidae					
<i>Capitella capitata</i>	20				
<i>Mediomastus acutus</i>					
<i>Mediomastus californiensis</i>	3490	2620	2230	4330	3230
(= <i>Capitita ambiseta</i> )					
<i>Notomastus tenuis</i>					
Chaetopteridae, unid. (frag.)					
<i>Spiochaetopterus costarum</i>					
Chrysopetalidae					
<i>Chrysopetalum occidentale</i>					
<i>Paleonotus bellis</i>					
Cirratulidae, unid.					
<i>Caulieriella alata</i>					
<i>Caulieriella bioculata</i>					
<i>Caulieriella hamata</i>					
<i>Caulieriella sp.</i>					
<i>Chaetozone corona</i>	350	290	210	300	370
<i>Chaetozone setosa</i>					
<i>Chaetozone sp.</i>					
<i>Cirratulus cirratus</i>					
<i>Cirriformia luxuriosa</i>					
<i>Cirriformia sp (juv.)</i>					
<i>Tharyx nr. tessellata</i>					
<i>Tharyx spp.</i>	50	90	80	140	80
Cossuridae					
<i>Cossura candida</i>	80		30	60	30
<i>Cossura pygodactylata</i>		30		10	20
Ctenodrilidae					
<i>Ctenodrilus serratus</i>					
Dorvilleidae, unid.					
<i>Ophryotrocha puerilis</i>					
<i>Protodorvillea gracilis</i>					
<i>Schistomerings longicornis</i>	10			10	10
Flabelligeridae, unid.					
<i>Pherusa capulata</i>					
<i>Pherusa sp.</i>					
Glyceridae					
<i>Glycera americana</i>					
<i>Glycera capitata</i>					
<i>Glycera convoluta</i>					
<i>Glycera rouxii</i>					
<i>Glycera sp. (juv.)</i>					

## HARBORS ENVIRONMENTAL PROJECTS

## BENTHIC DATA

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POLYCHAETA (cont.)					
Goniadiidae, unid. (juv.)					
<i>Glycinde armigera</i>					
<i>Goniada brunnea</i>					
<i>Goniada littorea</i>					
<i>Goniada sp.</i>					
Hesionidae, unid.					
<i>Hesionidae, new genus</i>					
<i>Gyptis brevipalpa</i>	10				
<i>Gyptis brunnea</i>					
<i>Ophiodromus pugettensis</i>				20	
Lumbrineridae, unid.					
<i>Lumbrineris ?crassidentata</i>					
<i>Lumbrineris erecta</i>					
<i>Lumbrineris ?tetaura</i>					
<i>Lumbrineris spp.</i>	370	530	190	400	530
Magelonidae					
<i>Magelona sacculata</i>					
Maldanidae, unid. (frag.)					
<i>Asychis sp.</i>	10				
Axiothella sp.					
<i>Praxillella affinis pacifica</i>					
<i>Praxillella sp.</i>					
Nephtyidae, unid.					
<i>Nephtys caecoides</i>					
<i>Nephtys californiensis</i>					
<i>Nephtys cornuta franciscana</i>	50	40			380
<i>Nephtys ferruginea</i>					
Nereidae, unid. (juv.)					
<i>Neanthes arenaceodentata</i>					
<i>Nereis latescens</i>					
<i>Nereis procera</i>	10		10		
<i>Nereis sp. (juv.)</i>					
<i>?Perinereis monterea</i>					
<i>Flatynereis bicanaliculata</i>					
Omophidae, unid. (juv.)					
<i>Diopatra ornata</i>					
<i>Diopatra splendidissima</i>					
<i>Diopatra sp. (juv.)</i>					
Opheliidae					
<i>Armandia bioculata</i>	10				
<i>Polyopthalamus pictus</i>					
Orbiniidae					
<i>Haploscoloplos elongatus</i>	260	220	510	230	190
<i>Naineris dendritica</i>					
<i>Scoloplos acmeceps</i>					
Oweniidae					
<i>Owenia collaris</i>					
Paraonidae					
<i>Acesta catherinae</i>					
<i>Acesta horikoshii</i>	10		10		
<i>Paraonella platybranchia</i>					
(=Paraonides platybranchia)					

HARBORS ENVIRONMENTAL PROJECTS  
BENTHIC DATA

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**POLYCHAETA (cont.)****Pectinariidae**

*Pectinaria californiensis*  
(=*P. c. newportensis*)

**Phyllodocidae, unid.**

*Anaitides nr. papillosa*

*Anaitides sp. (juv.)*

*Eteone californica*

*Eteone dilatae*

*Eteone sp.*

*Eulalia aviculisetosa*

*Eulalia ?myriacyclum*

*Eulalia quadrioculata*

*Eulalia sp. (juv.)*

*Eumida bifoliata*

*Eumida sanguinea*

?*Genetyllis castanea*

*Hesionura coineau i difficilis*

*Phyllocoelae sp.*

10

10

**Pilaridiidae**

*Ancistrosyllis hamata*

*Sigambla tentaculata*

10

20

**Polynoidae, unid. (frag.)**

*Halosydna johnsoni*

*Halosydna sp.*

*Harmothoe ?crassicirrata*

*Harmothoe hirsuta*

*Harmothoe imbricata*

*Harmothoe priops*

*Harmothoe scriptoria*

30

10

30

30

*Harmothoe sp.*

*Lepidonotus ?squamatous*

**Sabellariidae**

*Sabellaria cementarium*

**Sabellidae, unid.**

*Chone ecaudata*

*Chone sp.*

10

*Euchone limnicola*

*Megalomma pigmentum*

*Myxicola ?infundibulum*

?*Potamilla sp.*

**Scalabregmidae**

*Scalabregma inflatum*

**Serpulidae**

*Eupomatus gracilis*

*Hydroïdes pacifica*

70

**Sigalionidae**

*Pholoe glabra*

*Sthenelanella uniformis*

*Sthenelais verruculosa*

**Spionidae, unid.**

*Boccardia sp.*

*Boccardiella hamata*

(=*Boccardia hamata*)

*Laonice cirrata*

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<b>POLYCHAETA (cont.)</b>						
spionidae, unid. (cont.)						
<i>Parapriionospio pinnata</i>	40	20		10		20
<i>Polydora ligni</i>		20	10		30	
<i>Polydora socialis</i>						
<i>Polydora</i> sp.						
<i>Prionospio cirrifera</i>		10	140	50		20
<i>Prionospio heterobranchia</i> (= <i>P. h. newportensis</i> )	160	70	1010	840		170
<i>Prionospio pygmaeus</i>	10		10	20		
<i>Prionospio</i> sp.						
<i>Pseudopolydora paucibranchiata</i>		230	730	1320		1050
<i>Rhynchospio ?arenicola</i>						
<i>Rhynchospio</i> sp.						
<i>Scolelepis acuta</i> (= <i>Neriniades acuta</i> )	60	90	220	170		20
<i>Spio ?filicornis</i>						
<i>Spio maculata</i> (= <i>Neriniades maculata</i> )						
<i>Spiophanes missionensis</i>						30
<i>Streblospio benedicti</i>	350	20	200	110		40
spirorbidae						
<i>Janua brasiliensis</i>						
<i>Pileolaria pseudomilitaris</i>						
syllidae, unid.						
<i>Autolytus</i> sp.						
<i>Brania</i> sp.						
<i>Eusyllis</i> sp.						
<i>Exogone gemmifera</i>						
<i>Exogone lourei</i>						
<i>Exogone verugera</i>						
<i>Exogone</i> sp.						
<i>Odontosyllis phosphorea</i>						
<i>Sphaerosyllis californiensis</i>						
<i>Sphaerosyllis</i> sp.						
<i>Syllides</i> sp.						
<i>?Syllis</i> sp.						
<i>Typosyllis ?hyalina</i>						
<i>Typosyllis</i> sp.						
terebellidae, unid.						
<i>Amaeana occidentalis</i>	160	110	70	200		60
<i>Pista fasciata</i>						
<i>Pista ?disjuncta</i>						
<i>Pista</i> sp. (juv.)						
<i>Streblasma crassibranchia</i>						
<b>ARTHROPODA—CRUSTACEA</b>						
amphipoda						
<i>Caprellidea</i> , unid.		100	10			150
<i>Gammaridea</i> , unid.		60	1050	300		
copepoda						
<i>Calanoida</i> , unid.						
<i>Cyclopoidae</i> , unid.						10
<i>Clausidium vancouverense</i>						
<i>Harpacticoida</i> , unid.						10

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## ARTHROPODA CRUSTACEA (cont.)

Cumacea, unid.					
<i>Cyclaspis</i> sp.					
<i>Diastylis</i> sp.					
<i>Diastylopsis tenuis</i>					
<i>Oxyurostylus pacifica</i>	10				
Decapoda					
Decapod zoea larvae		170			10
Anomura					
Paguridae					
<i>Pagurus</i> sp.					
Brachyura					
Canceridae					
<i>Cancer anthonyi</i>					
<i>Cancer gracilis</i>					
<i>Cancer</i> sp. (juv.)					
Grapidae					
<i>Hemigrapsus oregonensis</i>					
<i>Hemigrapsus</i> sp. (juv.)					
Majidae					
<i>Pyromaria tuberculata</i>					
Pinnotheridae, unid.					
<i>Opisthopus transversus</i>					
<i>Pinnixa franciscana</i>					
<i>Pinnixa</i> sp.					
<i>Scleroplax granulata</i>					
Caridea					
Alpheidae, unid.					
<i>Alpheus californiensis</i>				10	
<i>Alpheus equidactylus</i>					
<i>Betaeus</i> sp. (frag.)					
Palaemonidae					
<i>Palaemonella holmesi</i>					
Macrura					
Callianassidea					
<i>Callianassa</i> sp.					20
<i>Upogebia</i> sp.					
Isopoda, unid.			180		
<i>Edotea</i> sp.					
<i>Limnoria</i> sp.					
<i>Munna</i> sp.					
Mysidacea, unid.				90	30
Nebaliacea, unid.					
Ostracoda, unid.					
<i>Cylindroleberidinae</i> , unid.					
<i>Philomedes</i> sp.					
<i>Rutiderma rostrata</i>					
Tanaidacea, unid.			20		
<i>Anatanais normani</i>					
<i>Leptochelia</i> sp.					
Thoracica					
<i>Balanus pacificus</i>					

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## ARTHROPODA CRUSTACEA (cont.)

## Decapoda (cont.)

## Thoracica (cont.)

*Balanus tintinnabulum californicus**Balanus trigonus**Balanus sp.*

## ARTHROPODA--INSECTA

## Chironomidae, larvae

*Paraclunio alaskensis* (larvae)

## ARTHROPODA--PYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis**Pallenidae, unid.**Tantystylum intermedium*

## ASCHELMINTHES

*Nematoda, unid.*

## BRACHIOPODA

*Glottidia albida*

## BRYOZOA (=ECTOPROCTA)

*Bowerbankia gracilis**Bugula neritina**Bugula stolonifera*(*=Bugula californica*)*Celleporaria brunnea**Cryptosula pallasiana**Schizoporella unicornis**Watersipora arcuata**Zoochontryon verticillatum*

## CHORDATA

## Cephalochordata

*Branchiostoma californiense*

## Osteichthys

## Gobiesocidae

*Gobiesox rhessodon*

## Gobieidae, unid.

## Gobieidae, larvae

*Clevelandia ios*

20 10

10

*Ilypnus gilberti**Lepidogobius lepidus*

## Urochordata

## Ascidacea, unid.

*Botryllus sp.**Ciona intestinalis**Mogula pugetensis**Styela clava**Styela plicata*

## CNIDARIA (=COELENTERATA)

## Anthozoa

10

*Actinaria, unid.**Diadumene sp.**Edwardsia californica**Edwardsia nr. sippunculoides**Edwardsia sp. (juv.)*

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## CNIDARIA (Cont.)

## Anthozoa

- Actinaria, unid.
- Edwardsiidae, unid.
- Mesacmaea* sp. A
- Ceriantharia, unid.
- Hydrozoa--Hydroida
  - Aglaophenia diversidentata*
  - Aglaophenia* nr. *pluma*
  - Corymorphia aurata*

30	10
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## ECHINODERMATA

- Echinoidea, unid. (juv.)
- Strongylocentrotus purpuratus*
- Holothuroidea, unid.
- Ophiuroidea, unid. (juv.)

10
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## ECHURA

- Urechis caupo*

## HEMICORDATA

- Enteropneusta, unid.

10
----

## MOLLUSCA--Gastropoda, unid. (juv.)

- Gastropoda--Ophistobranchia
  - Cephalaspidea, unid.
  - Acteocina harpa*
  - Acteocina inculta*
  - Aglaja* sp.
  - Bulla gouldiana*
  - Rictaxis punctocaulatus*
  - Sulcoretusa* sp.
  - Woodbridgea* sp.

20	10	340	420	30
				20

- Nudibranchia, unid.

20
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- Acanthodoris* sp.
- Trinchesia* sp.

- Pyramidellida

- Odostomia* sp.

## Gastropoda--Prosobranchia

- Mesogastropoda

## Caecidae

- Caecum* sp.
- Partulum* sp.
- ?*Micranellium* sp.

## Calyptraeidae

- Crepidula dorsata*  
(=*Crepidatella lingulata*)
- Crepidula onyx*
- Crepidula perforans*
- Crepidula* sp. (juv.)

## Lamellariidae

- Lamellaria sharonae*

## Naticidae

- Neverita reclusiana*
- Sinum* sp.

## Vitrinellidae

- Vitrinella oldroydi*

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<b>MOLLUSCA (cont.)</b>					
Gastropoda--Prosobranchia (cont.)					
Neogastropoda					
Columbellidae					
<i>Mitrella carinata</i>					
<i>Mitrella sp.</i>					
Muricidae					
<i>Pteropurpura festiva</i>					
Nassariidae					
<i>Nassarius mendicus</i>					
<i>Nassarius perpinguis</i>					
<i>Nassarius sp.</i>					
Olividae					
<i>Olivella baetica</i>					
Pyramidellidae					
<i>Turbanilla sp.</i>					
Turridae					
<i>Kurtziella plumbea</i>					
Pelecypoda, unid. (juv.)			10		
Cardiidae					
<i>Laevicardium substriatum</i>	20				70
Cooperellidae					
<i>Cooperella subdiaphana</i>					
Donacidae					
<i>Donax gouldii</i>					
Erycinidae					
<i>Lasaea subviridis</i>					
Hiatellidae					
<i>Hiatella arctica</i>					
Leptonidae					
<i>"Lepton meroeum"</i>					
Lucinidae					
<i>Parvilucina tenuisculpta</i>	20				
(= <i>Parvilucina sp.</i> )					
Lyonsiidae					
<i>Lyonsia californica</i>					
Mactridae, unid. (juv.)					
<i>Mactra californica</i>					
<i>Mactra sp.</i>					
<i>Spisula catilliformis</i>					
<i>Spisula sp.</i>					
<i>Tresus nuttalli</i>					
Montacutidae					
<i>Orobitella sp.</i>					
<i>Mysella pedroana</i>	20				
<i>Mysella sp.</i>					
Myidae					
<i>Cryptomya californica</i>					
Mytilidae, unid. (juv.)			30		
<i>Amygdalum sp.</i>					
<i>Modiolus sp.</i>					
<i>Mytilus edulis</i>					
Ostreidae					
<i>Ostrea lurida</i>					
Pectinidae					
<i>Leptopecten latiauratus</i>					

## HARBORS ENVIRONMENTAL PROJECTS

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## MOLLUSCA (cont.)

## Pelecypoda (cont.)

## Petricolidae

*Petricola tellimyalis**Petricola sp.*

## Semelidae

*Cumingia californica**Theora lubrica*

20	20	50	20	30
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## Solcurntidae

*Tagelus subteres*

30

## Solenidae

*Ensis myrae**Siliqua lucida*

10

*Solen sp. (juv.)*

## Tellinidae

*Leporimetis obesa**Macoma acolasta**Macoma carlottensis**Macoma nasuta*

10

*Macoma sp. (juv.)*

10	10
----	----

*Tellina modesta**Tellina sp. (juv.)*

## Thyasiridae

*Axinopsida serricata**Thyasira flexuosa*

## Veneridae

*Chione undatella**Chione sp. (juv.)**Protobrachia staminea**Protobrachia sp.*

10

*Saxidomus nuttalli**Saxidomus sp. (juv.)*

## Polyplacophora, unid.

## NEMERTEA, unid.

20	50	50	40	120
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## PHORONIDA, unid.

*Phoronis pallida**Phoronis sp.**Phoronopeis sp.*

## PLATYHELMINTHES

## Polycladida, unid.

10

## PROTOZOA

## Foraminifera

*"Rosalina-like" forams*

## SIPUNCULIDA, unid.

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<b>ANNELIDA</b>					
OLIGOCHAETA, unid.	170		140	10	110
Tubificidae					
<i>Peloscolex gabriellae</i>					
POLYCHAETA					
Ampharetidae					
<i>Ampharete labrops</i>					
<i>Amphicteis scaphobranchiata</i>	10		10		
<i>Melinna oculata</i>					
Arabellidae, unid. (juv.)				10	
Capitellidae					
<i>Capitella capitata</i>	30	50	10	70	70
<i>Mediomastus acutus</i>					
<i>Mediomastus californiensis</i>	360	570	280	140	550
(= <i>Capitita ambiseta</i> )					
<i>Notomastus tenuis</i>	20	30		10	40
Chaetopteridae, unid. (frag.)					
<i>Spiochaetopterus costarum</i>					
Chrysopetalidae					
<i>Chrysopetalum occidentale</i>					
<i>Paleanotus bellis</i>					
Cirratulidae, unid.					10
<i>Caulieriella alata</i>					
<i>Caulieriella bioculata</i>					
<i>Caulieriella horata</i>					
<i>Caulieriella</i> sp.					
<i>Chaetozone corona</i>	60	40	10	10	
<i>Chaetozone setosa</i>				10	
<i>Chaetozone</i> sp.					
<i>Cirratulus cirratus</i>					10
<i>Cirriformia luxuriosa</i>	140		110	10	40
<i>Cirriformia</i> sp (juv.)					
<i>Tharyx</i> nr. <i>tesselata</i>					
<i>Tharyx</i> spp.	310	210	880	1250	680
Cossuridae					
<i>Cossura candida</i>					
<i>Cossura pygodactylata</i>	40	140	620	20	
Ctenodrilidae					
<i>Ctenodrilus serratus</i>	170	10			20
Dorvilleidae, unid.					
<i>Ophryotrocha puerilis</i>					
<i>Protodorvillea gracilis</i>					
<i>Schistomerings longicornis</i>	1210	1080	610	130	370
Flabelligeridae, unid.					
<i>Pherusa capulata</i>					
<i>Pherusa</i> sp.					
Glyceridae					
<i>Glycera americana</i>					
<i>Glycera capitata</i>					
<i>Glycera convoluta</i>					
<i>Glycera rouxi</i>		10			
<i>Glycera</i> sp. (juv.)					60

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POLYCHAETA (cont.)					
Goniadidae, unid. (juv.)					
<i>Glycinde armigera</i>					
<i>Goniada brunnea</i>					
<i>Goniada littorea</i>					
<i>Goniada sp.</i>					
Hesionidae, unid.					
<i>Hesionidae, new genus</i>					
<i>Gyptis brevipalpa</i>					
<i>Gyptis browniae</i>					
<i>Ophiodromus pugettensis</i>					
Lumbrineridae, unid.					
<i>Lumbrineris ?crassidentata</i>					
<i>Lumbrineris erecta</i>					
<i>Lumbrineris ?tetaura</i>					
<i>Lumbrineris spp.</i>	490	550	220	230	820
Magelonidae					
<i>Magelona sacculata</i>					
Maldanidae, unid. (frag.)					
<i>Asychis sp.</i>					
<i>Axiothella sp.</i>					
<i>Praxilicella affinis pacifica</i>					
<i>Praxillella sp.</i>					
Nephtyidae, unid.					
<i>Nephtys caecoides</i>					
<i>Nephtys californiensis</i>	10				
<i>Nephtys cornuta franciscana</i>	20	40	10		50
<i>Nephtys ferruginea</i>					
Nereidae, unid. (juv.)					
<i>Neanthes crenaceodentata</i>					
<i>Nereis latescens</i>					
<i>Nereis procera</i>	10				30
<i>Nereis sp. (juv.)</i>					
<i>?Perinereis monterea</i>					
<i>Platynereis bicanaliculata</i>	10	10			30
Onuphidae, unid. (juv.)					
<i>Diopatra ornata</i>					
<i>Diopatra splendidissima</i>					
<i>Diopatra sp. (juv.)</i>					
Opheliidae					
<i>Armandia bioculata</i>		10			10
<i>Polyopthalmus pictus</i>	20				20
Orbiniidae					
<i>Haploscoloplos elongatus</i>	380	800	550	210	560
<i>Naineris dendritica</i>					
<i>Scoloplos acmeceps</i>					
Oweniidae					
<i>Owenia collaris</i>					
Paraonidae					
<i>Acesta catherinae</i>					
<i>Acesta horikoshii</i>					
<i>Paraonella platybranchia</i>					
(=Paraonides platybranchia)					

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## POLYCHAETA (cont.)

## Pectinariidae

*Pectinaria californiensis*  
(=*P. c. newportensis*)

## Phyllodocidae, unid.

*Anaitides* nr. *papillosa*

*Anaitides* sp. (juv.)

*Eteone californica*

*Eteone dilatata*

*Eteone* sp.

*Eulalia aviculifera*

*Eulalia* ?*myriacyclum*

*Eulalia quadrioculata*

*Eulalia* sp. (juv.)

*Eumida bifoliata*

*Eumida sanguinea*

?*Genetyllis castanea*

*Hesionura coineaei difficilis*

*Phyllodoce* sp.

## Pilargidae

*Ancistrosyllis hamata*

*Sigambla tentaculata*

## Polynoidae, unid. (frag.)

*Halosydna johnsoni*

*Halosydna* sp.

*Harmothoe* ?*crassicirrata*

*Harmothoe hirsuta*

*Harmothoe imbricata*

*Harmothoe priops*

*Harmothoe scriptoria*

*Harmothoe* sp.

*Lepidonotus* ?*squamatus*

30

## Sabellariidae

*Sabellaria cementarium*

## Sabellidae, unid.

*Chone ecaudata*

*Chone* sp.

40

*Euchone limnicola*

20

*Megalomma pigmentum*

*Myxicola* ?*infundibulum*

?*Potamilla* sp.

## Scalabregmidae

*Scalabregma inflatum*

## Serpulidae

*Eupomatus gracilis*

*Hydroides pacifica*

## Sigalionidae

*Pholoe glabra*

*Sthenelanella uniformis*

10

*Sthenelais verruculosa*

## Spionidae, unid.

*Boccardia* sp.

*Boccardiella hamata*

(=*Boccardia hamata*)

80

210

20

30

170

*Laonice cirrata*

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## POLYCHAETA (cont.)

Spionidae, unid. (cont.)					
<i>Paraprionospio pinnata</i>					
<i>Polydora ligni</i>	510	320	60	60	230
<i>Polydora socialis</i>					
<i>Polydora sp.</i>					
<i>Prionospio cirriformis</i>			20	10	
<i>Prionospio heterobranchia</i>	460	210	380	310	530
(=P. h. newportensis)					
<i>Prionospio pygmaeus</i>	10				
<i>Prionospio sp.</i>					
<i>Pseudopolydora paucibranchiata</i>	1120	1250	840	760	2860
<i>Rhynchospio ?arenicola</i>					
<i>Rhynchospio sp.</i>					
<i>Scolelepis acuta</i>	30	360	130	20	30
(=Nerinides acuta)					
<i>Spio ?filicornis</i>					
<i>Spio maculata</i>					
(=Nerinides maculata)					
<i>Spiophanes missionensis</i>		10			
<i>Streblospio benedicti</i>	420	400	560	130	340
<b>Spirorbidae</b>					
<i>Janua brasiliensis</i>					
<i>Pileolaria pseudomilitaris</i>					
<b>Syllidae, unid.</b>			10		
<i>Autolytus sp.</i>					
<i>Brania sp.</i>				10	
<i>Eusyllis sp.</i>					
<i>Exogone gemmifera</i>					
<i>Exogone lourei</i>					10
<i>Exogone verugera</i>	20				
<i>Exogone sp.</i>					
<i>Odontosyllis phosphorea</i>					
<i>Sphaerosyllis californiensis</i>	10		10		
<i>Sphaerosyllis sp.</i>					
<i>Syllides sp.</i>					
<i>?Syllis sp.</i>					
<i>Typosyllis ?hyalina</i>					
<i>Typosyllis sp.</i>					
<b>Terebellidae, unid.</b>					
<i>Amaeana occidentalis</i>					
<i>Pista fasciata</i>					
<i>Pista ?disjuncta</i>					
<i>Pista sp. (juv.)</i>					
<i>Streblosoma crassibranchia</i>					
<b>ARTHROPODA--CRUSTACEA</b>					
<b>Amphipoda</b>					
<i>Caprellidea, unid.</i>	370	10		10	170
<i>Gammaridea, unid.</i>	30	20			
<b>Copepoda</b>					
<i>Calanoida, unid.</i>					
<i>Cyclopoida, unid.</i>					
<i>Clausidium vancouverense</i>		10			
<i>Harpacticoida, unid.</i>					

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## ARTHROPODA CRUSTACEA (cont.)

## Cumacea, unid.

*Cyclaspis* sp.*Diastylis* sp.*Diastylopsis tenuis**Oxyurostylus pacifica*

## Decapoda

Decapod zoea larvae

*Anomura*

Paguridae

*Pagurus* sp.

## Brachyura

## Canceridae

*Cancer anthonyi**Cancer gracilis**Cancer* sp. (juv.)

## Grapsidae

*Hemigrapsus oregonensis*

20

*Hemigrapsus* sp. (juv.)

## Majidae

*Pyromais tuberculata*

## Pinnotheridae, unid.

*Opisthopus transversus**Pinnixa franciscana**Pinnixa* sp.*Scleroplaax granulata*

## Caridea

## Alpheidae, unid.

*Alpheus californiensis**Alpheus equidactylus**Betaeus* sp. (frag.)

## Palaemonidae

*Palaemonella holmesi*

## Macrura

## Callianassidea

*Callianassa* sp.

10

10

*Upogebia* sp.

10

## Isopoda, unid.

*Edotea* sp.*Limnoria* sp.

10

*Munna* sp.

## Mysidacea, unid.

## Nebaliacea, unid.

## Ostracoda, unid.

*Cylindroleberidinae*, unid.*Philomedes* sp.*Rutiderma rostrata*

## Tanaidacea, unid.

*Anatanais normani*

10

*Leptochetia* sp.

## Thoracica

*Balanus pacificus*

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## ARTHROPODA CRUSTACEA (cont.)

## Decapoda (cont.)

## Thoracica (cont.)

*Balanus tintinnabulum californicus**Balanus trigonus**Balanus* sp.

## ARTHROPODA—INSECTA

## Chironomidae, larvae

*Paraclunio alaskensis* (larvae)

## ARTHROPODA—PYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis*

Pallenidae, unid.

*Tantystylum intermedium*

## ASCHELMINTHES

Nematoda, unid.

## BRACHIOPODA

*Glottidia albida*

## BRYOZOA (=ECTOPROCTA)

*Bowerbankia gracilis**Bugula neritina**Bugula stolonifera*(*=Bugula californica*)*Celleporaria brumnea**Cryptosula pallasiana**Schizoporella unicornis**Watersipora arcuata**Zoobotryon verticillatum*

## CHORDATA

## Cephalochordata

*Branchiostoma californiense*

## Osteichthys

## Gobiesocidae

*Gobiesox rheissodon*

## Gobiidae, unid.

## Gobiidae, larvae

*Clevelandia ios*

50

*Ilypnus gilberti*

20

20

*Lepidogobius lepidus*

## Urochordata

## Ascidacea, unid.

*Botryllus* sp.*Ciona intestinalis**Mogula pugetensis**Styela clava**Styela plicata*

## CNIDARIA (=COELENTERATA)

## Anthozoa

## Actinaria, unid.

*Diadumene* sp.*Edwardsia californica**Edwardsia nr. sippunculoides**Edwardsia* sp. (juv.)

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## CNIDARIA (Cont.)

## Anthozoa

*Actinaria*, unid.*Edwardsiidae*, unid.*Mesacmaea* sp. A*Ceriantharia*, unid.

10

## Hydrozoa--Hydroidea

*Aglaophenia diversidentata**Aglaophenia* nr. *pluma**Corymorphia aurata*

## ECHINODERMATA

*Echinoidea*, unid. (juv.)*Strongylocentrotus purpuratus**Holothuroidea*, unid.*Ophiuroidea*, unid. (juv.)

## ECHURA

*Urechis caupo*

## HEMICORDATA

*Enteropneusta*, unid.

## MOLLUSCA --Gastropoda, unid. (juv.)

Gastropoda--Ophistobranchia

*Cephalaspidea*, unid.*Acteocina harpa**Acteocina inculta*

20 390 740 490 10

*Aglaja* sp.*Bulla gouldiana**Ricaxis punctocaulatus**Sulcoretusa* sp.*Woodbridgea* sp.

90

30

*Nudibranchia*, unid.*Acanthodoris* sp.*Trinchesia* sp.

Pyramidellida

*Odostomia* sp.

Gastropoda--Prosobranchia

Mesogastropoda

*Caecidae**Caecum* sp.*Partulum* sp.*?Micranellium* sp.*Calyptaeidae**Crepidula dorsata*(*=Crepidipatella lingulata*)*Crepidula onyx**Crepidula perforans**Crepidula* sp. (juv.)

20

*Lamellariidae**Lamellaria sharonae**Naticidae**Neverita reclusiana**Sinum* sp.

Vitrinellidae

*Vitrinella oldroydi*

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## MOLLUSCA (cont.)

## Gastropoda--Prosobranchia (cont.)

## Neogastropoda

## Columbellidae

*Mitrella carinata**Mitrella sp.*

## Muricidae

*Pteropurpura festiva*

## Nassariidae

*Nassarius mendicus**Nassarius perpinguis**Nassarius sp.*

## Olividae

*Olivella baetica*

## Pyramidellidae

*Turbanilla sp.*

## Turridae

*Kurtziella plumbea*

## Pelecypoda, unid. (juv.)

10

## Cardiidae

*Laevicardium substriatum*

## Cooperellidae

*Cooperella subdiaphana*

## Donacidae

*Donax gouldii*

## Erycinidae

*Lasaea subviridis*

## Hiatellidae

*Hiatella arctica*

## Leptonidae

*"Lepton meroeum"*

## Lucinidae

*Parvilucina tenuisculpta**(=Parvilucina sp.)*

## Lyonsiidae

*Lyonsia californica*

## Mactridae, unid. (juv.)

*Mactra californica**Mactra sp.**Spisula catilliformis**Spisula sp.**Tresus nuttalli*

## Montacutidae

*Orobitella sp.**Mysella pedroana**Mysella sp.*

## Myidae

*Cryptomya californica*

## Mytilidae, unid. (juv.)

*Amygdalum sp.**Modiolus sp.**Mytilus edulis*

## Ostreidae

*Ostrea lurida*

## Pectinidae

*Leptopecten latiauratus*

20

## HARBORS ENVIRONMENTAL PROJECTS

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MOLLUSCA (cont.)					
Pelecypoda (cont.)					
Petricolidae					
<i>Petricola tellimyalis</i>					
<i>Petricola sp.</i>		10			
Semelidae					
<i>Cumingia californica</i>					10
<i>Theora lubrica</i>					
solecurtidae					
<i>Tagelus subteres</i>					
Solenidae					
<i>Ensis myrae</i>					
<i>Siliqua lucida</i>					
<i>Solen sp. (juv.)</i>					
Tellinidae					
<i>Leporimetis obesa</i>					
<i>Macoma acolasta</i>					
<i>Macoma carlottensis</i>					
<i>Macoma nasuta</i>			70		50
<i>Macoma sp. (juv.)</i>		10		10	
<i>Tellina modesta</i>					
<i>Tellina sp. (juv.)</i>					
Thyasiridae					
<i>Axinopsida serricata</i>					
<i>Thyasira flexuosa</i>			10		
Veneridae					
<i>Chione undatella</i>					
<i>Chione sp. (juv.)</i>					
<i>Protobrachia staminea</i>					
<i>Protobrachia sp.</i>	10		10		10
<i>Saxidomus nuttalli</i>					20
<i>Saxidomus sp. (juv.)</i>					
Polyplacophora, unid.					
NEMERTEA, unid.		20			10
PHORONIDA, unid.					
<i>Phoronis pallida</i>					
<i>Phoronis sp.</i>					
<i>Phoronopsis sp.</i>					
PLATYHELMINTHES					
<i>Polycladida, unid.</i>					
PROTOZOA					
Foraminifera					
<i>"Rosalina-like" forams</i>					
SIPUNCULIDA, unid.					

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OLIGOCHAETA, unid.	800	460	290	180	20
Tubificidae					
<i>Peloscolex gabriellae</i>					
POLYCHAETA					
Ampharetidae					
<i>Ampharete labrops</i>					
<i>Amphicteis scaphobranchiata</i>					
<i>Melinna oculata</i>					
Arabellidae, unid. (juv.)					
Capitellidae					
<i>Capitella capitata</i>	210	780	330	170	
<i>Mediomastus acutus</i>					
<i>Mediomastus californiensis</i>	620	310	260	150	1080
(=Capitita ambiseta)					
<i>Notomastus tenuis</i>	30	30	10	50	20
Chaetopteridae, unid. (frag.)					
<i>Spiochaetopterus costarum</i>					
Chrysopetalidae					
<i>Chrysopetalum occidentale</i>					
<i>Paleanotus bellis</i>					
Cirratulidae, unid.					
<i>Caulieriella alata</i>					
<i>Caulieriella bioculata</i>					
<i>Caulieriella hamata</i>					
<i>Caulieriella sp.</i>					
<i>Chaetozone corona</i>	40	20	10	20	
<i>Chaetozone setosa</i>	20				
<i>Chaetozone sp.</i>					
<i>Cirratulus cirratus</i>	10				
<i>Cirriformia luxuriosa</i>	50	20		10	
<i>Cirriformia sp (juv.)</i>					
<i>Tharyx nr. tesselata</i>					
<i>Tharyx spp.</i>	220	1980	2820	1010	470
Cossuridae					
<i>Cossura candida</i>				920	10
<i>Cossura pygodactylata</i>	640	3990	4600		180
Ctenodrilidae					
<i>Ctenodrilus serratus</i>	10				
Dorvilleidae, unid.					
<i>Ophryotrocha puerilis</i>					
<i>Protodorvillea gracilis</i>					
<i>Schistomerengos longicornis</i>	320	420	130	60	
Flabelligeridae, unid.					
<i>Pherusa capulata</i>			20	20	
<i>Pherusa sp.</i>					
Glyceridae					
<i>Glycera americana</i>			10	20	20
<i>Glycera capitata</i>					
<i>Glycera convoluta</i>					
<i>Glycera rourii</i>	10				
<i>Glycera sp. (juv.)</i>	10				

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POLYCHAETA (cont.)					
Goniadidae, unid. (juv.)					
<i>Glycinde armigera</i>					
<i>Goniada brumnea</i>					
<i>Goniada littorea</i>					
<i>Goniada sp.</i>					
Hesionidae, unid.					
<i>Hesionidae, new genus</i>					
<i>Gyptis brevipalpa</i>					
<i>Gyptis brunnea</i>					
<i>Ophiodromus pugettensis</i>					
Lumbrineridae, unid.					
<i>Lumbrineris ?crassidentata</i>					
<i>Lumbrineris erecta</i>					
<i>Lumbrineris ?tetaura</i>					
<i>Lumbrineris spp.</i>	350	250	420	260	410
Magelonidae					
<i>Magelona sacculata</i>					
Maldanidae, unid. (frag.)					
<i>Asychis sp.</i>					
<i>Axiothella sp.</i>					
<i>Praxillella affinis pacifica</i>					
<i>Praxillella sp.</i>					
Nephtyidae, unid.					
<i>Nephtys caecoides</i>	10		20		
<i>Nephtys californiensis</i>					
<i>Nephtys cornuta franciscana</i>	70				60
<i>Nephtys ferruginea</i>					
Nereidae, unid. (juv.)					
<i>Neanthes arenaceodentata</i>					
<i>Nereis latescens</i>					
<i>Nereis procera</i>					
<i>Nereis sp. (juv.)</i>					
<i>?Perinereis monterea</i>					
<i>Platynereis bicanaliculata</i>					
Onuphidae, unid. (juv.)					
<i>Diopatra ornata</i>					
<i>Diopatra splendidissima</i>					
<i>Diopatra sp. (juv.)</i>	10				
Opheliidae					
<i>Armandia bioculata</i>		20		10	
<i>Polyopthalamus pictus</i>					
Orbiniidae					
<i>Haploscoloplos elongatus</i>	70	330	50	60	260
<i>Naineris dendritica</i>					
<i>Scoloplos acmeceps</i>					
Oweniidae					
<i>Owenia collaris</i>					
Paraonidae					
<i>Acesta catherinae</i>					
<i>Acesta horikoshii</i>					
<i>Paraonella platybranchia</i>					
<i>(=Paraonides platybranchia)</i>					

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## POLYCHAETA (cont.)

Pectinariidae					
<i>Pectinaria californiensis</i>			10		
(=P. c. neuportensis)					
Phyllodocidae, unid.					
<i>Anaitides</i> nr. <i>papillosa</i>					
<i>Anaitides</i> sp. (juv.)					
<i>Eteone californica</i>					
<i>Eteone dilatata</i>					
<i>Eteone</i> sp.					
<i>Eulalia aviculifera</i>					
<i>Eulalia</i> ? <i>myriacyclum</i>					
<i>Eulalia quadrioculata</i>					
<i>Eulalia</i> sp. (juv.)					
<i>Eunida bifoliata</i>					
<i>Eunida sanguinea</i>					
<i>?Genetyllis castanea</i>					
<i>Hesionura coineaui difficilis</i>					
<i>Phyllocoelus</i> sp.					
Pilargidae					
<i>Ancistrosyllis hanata</i>			10		
<i>Sigambla tentaculata</i>					
Polynoidae, unid. (frag.)					
<i>Halosydna johnsoni</i>					
<i>Halosydna</i> sp.		10			
<i>Harmothoe</i> ? <i>crassicirrata</i>					
<i>Harmothoe hirsuta</i>					
<i>Harmothoe imbricata</i>					
<i>Harmothoe priops</i>	10				
<i>Harmothoe scriptoria</i>					
<i>Harmothoe</i> sp.		10	10		
<i>Lepidonotus</i> ? <i>squamatus</i>					
Sabellariidae					
<i>Sabellaria cementarium</i>					
Sabellidae, unid.					
<i>Chone ecaudata</i>					
<i>Chone</i> sp.			10		
<i>Euchone limnicola</i>					
<i>Megalomma pigmentum</i>					
<i>Myxicola</i> ? <i>infundibulum</i>					
<i>?Potamilla</i> sp.					
Scalabregmidae					
<i>Scalabregma inflatum</i>					
Serpulidae					
<i>Eupomatus gracilis</i>					
<i>Hydroïdes pacifica</i>			30		
Sigalionidae					
<i>Pholoe glabra</i>					
<i>Sthenelanella uniformis</i>					
<i>Sthenelais verruculosa</i>					
Spionidae, unid.					
<i>Boccardia</i> sp.					
<i>Boccardiella hanata</i>	70	80	10		
(=Boccardia hanata)					
<i>Laonice cirrata</i>					

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POLYCHAETA (cont.)					
Spionidae, unid. (cont.)					
<i>Parapriionospio pinnata</i>					10
<i>Polydora ligni</i>	40	320	120	310	30
<i>Polydora socialis</i>					
<i>Polydora sp.</i>		10			
<i>Prionospio cirrijera</i>	10	60	10	10	40
<i>Prionospio heterobranchia</i>	30	150	190	100	120
(=P. h. newportensis)					
<i>Prionospio pygmaeus</i>		10			10
<i>Prionospio sp.</i>					
<i>Pseudopolydora paucibranchiata</i>	370	5790	540	280	380
<i>Rhynchospi?arenicola</i>					
<i>Rhynchospi? sp.</i>					
<i>Scolelepis acuta</i>	30	180	50		10
(=Nerinides acuta)					
<i>Spi?filicornis</i>					
<i>Spi?maculata</i>					
(=Nerinides maculata)					
<i>Spiophanes missionensis</i>	20				10
<i>Streblospi?benedicti</i>	2900	4150	3880	2350	60
Spirorbidae					
<i>Janua brasiliensis</i>					
<i>Pileolaria pseudomilitaris</i>					
Syllidae, unid.		20			
<i>Autolytus sp.</i>					
<i>Brania sp.</i>					
<i>Eusyllis sp.</i>					
<i>Exogone gemmifera</i>					
<i>Exogone lourei</i>					
<i>Exogone verugera</i>					
<i>Exogone sp.</i>					
<i>Odontosyllis phosphorea</i>					
<i>Sphaerosyllis californiensis</i>	10	10			
<i>Sphaerosyllis sp.</i>					
<i>Syllides sp.</i>					
<i>?Syllis sp.</i>					
<i>Typosyllis ?hyalina</i>					
<i>Typosyllis sp.</i>				10	
Terebellidae, unid.					
<i>Amaeana occidentalis</i>					
<i>Pista fasciata</i>					
<i>Pista ?disjuncta</i>					
<i>Pista sp. (juv.)</i>					
<i>Streblosoma crassibranchia</i>					
ARTHROPODA--CRUSTACEA					
Amphipoda					
<i>Caprellidea, unid.</i>	20				
<i>Gammaridea, unid.</i>	20	20		40	
Copepoda					
<i>Calanoida, unid.</i>					
<i>Cyclopoida, unid.</i>					
<i>Clausidium vancouverense</i>					
<i>Harpacticoida, unid.</i>					

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## ARTHROPODA CRUSTACEA (cont.)

## Cumacea, unid.

*Cyclaspis* sp.*Diastylis* sp.*Diastylopsis tenuis**Oxyurostylus pacifica*

10

## Decapoda

Decapod zoea larvae

## Anomura

## Paguridae

*Pagurus* sp.

## Brachyura

## Canceridae

*Cancer anthonyi**Cancer gracilis**Cancer* sp. (juv.)

## Grapsidae

*Hemigrapsus oregonensis*

10

20

*Hemigrapsus* sp. (juv.)

## Majidae

*Pyromaria tuberculata*

## Pinnotheridae, unid.

*Opisthopus transversus**Pinnixa franciscana**Pinnixa* sp.*Scleroplaex granulata*

## Caridea

## Alpheidae, unid.

*Alpheus californiensis*

30

10

*Alpheus equidactylus**Betaeus* sp. (frag.)

10

## Palaemonidae

*Palaemonella holmesi*

## Macrura

## Callianassidea

*Callianassa* sp.*Upogebia* sp.

## Isopoda, unid.

*Edotea* sp.*Limmoria* sp.*Munna* sp.

## Mysidacea, unid.

30

290

20

50

## Nebaliacea, unid.

## Ostracoda, unid.

50

*Cylindroleberidinae*, unid.*Philomedes* sp.*Rutiderma rostrata*

## Tanaidacea, unid.

*Anatanais normani**Leptochelia* sp.

## Thoracica

*Balanus pacificus*

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## ARTHROPODA CRUSTACEA (cont.)

## Decapoda (cont.)

## Thoracica (cont.)

- Balanus tintinnabulum californicus*
- Balanus trigonus*
- Balanus sp.*

## ARTHROPODA--INSECTA

## Chironomidae, larvae

*Paraclunio alaskensis* (larvae)

## ARTHROPODA--PYCNOGONIDA

- Anoplodactylus erectus*
- Callipallene californiensis*
- Pallenidae, unid.*
- Tantystylum intermedium*

## ASCHELMINTHES

## Nematoda, unid.

120

10

## BRACHIOPODA

*Glottidia albida*

## BRYOZOA (=ECTOPROCTA)

- Bowerbankia gracilis*
- Bugula neritina*
- Bugula stolonifera*  
(=*Bugula californica*)
- Celleporaria brunnea*
- Cryptosula pallasiana*
- Schizoporella unicornis*
- Watersipora arcuata*
- Zoobotryon verticillatum*

## CHORDATA

## Cephalochordata

*Branchiostoma californiense*

## Osteichthys

## Gobiesocidae

*Gobiesox rhessodon*

## Gobieidae, unid.

## Gobieidae, larvae

130

*Clevelandia ios*

10

10

20

*Ilypnus gilberti*

10

10

10

*Lepidogobius lepidus*

## Urochordata

## Ascidacea, unid.

*Botryllus sp.**Ciona intestinalis**Mogula pugetensis**Styela clava**Styela plicata*

## CNIDARIA (=COELENTERATA)

## Anthozoa

## Actinaria, unid.

*Diadumene sp.**Edwardsia californica**Edwardsia nr. sippunculoides**Edwardsia sp. (juv.)*

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## CNIDARIA (Cont.)

## Anthozoa

- Actinaria, unid.
- Edwardsiidae, unid.
- Mesacmaea* sp. A
- Ceriantharia, unid.
- Hydrozoa--Hydroida
  - Aglaophenia diversidentata*
  - Aglaophenia* nr. *pluma*
  - Corymorphia aurata*

10

## ECHINODERMATA

- Echinoidea, unid. (juv.)
- Strongylocentrotus purpuratus*
- Holothuroidea, unid.
- Ophiuroidea, unid. (juv.)

## ECHURA

- Urechis caupo*

## HEMICHORDATA

- Enteropneusta*, unid.

## MOLLUSCA --Gastropoda, unid. (juv.)

## Gastropoda--Ophistobranchia

## Cephalaspidea, unid.

- Acteocina harpa*
- Acteocina inculta* 30 940 1250 60 580
- Aglaja* sp. 20
- Bulla gouldiana*
- Rictaxis punctocaulatus*
- Sulcoretusa* sp.
- Woodbridgea* sp.

10

## Nudibranchia, unid.

- Acanthodoris* sp.
- Trinchesia* sp.

## Pyramidellida

- Odostomia* sp.

## Gastropoda--Prosobranchia

## Mesogastropoda

## Caecidae

- Caecum* sp.
- Fartulum* sp.
- ?*Micranellium* sp.

## Calyptraeidae

- Crepidula dorsata*
- (=*Crepidatella lingulata*)

- Crepidula onyx* 20

- Crepidula preforans*

- Crepidula* sp. (juv.)

## Lamellariidae

- Lamellaria sharonae*

## Naticidae

- Neverita reclusiana*
- Sinum* sp.

## Vitrinellidae

- Vitrinella oldroydi*

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## MOLLUSCA (cont.)

## Gastropoda--Prosobranchia (cont.)

## Neogastropoda

## Columbellidae

*Mitrella carinata**Mitrella sp.*

## Muricidae

*Pteropurpura festiva*

## Nassariidae

*Nassarius mendicus**Nassarius perpinguis**Nassarius sp.*

## Olividae

*Olivella baetica*

## Pyramidellidae

*Turbanilla sp.*

## Turridae

*Kurtziella plumbea*

## Pelecypoda, unid. (juv.)

## Cardiidae

*Laevicardium substriatum*

## Cooperellidae

*Cooperella subdiaphana*

## Donacidae

*Donax gouldii*

## Erycinidae

*Lasaea subviridis*

## Hiatellidae

*Hiatella arctica*

## Leptonidae

*"Lepton meroicum"*

## Lucinidae

*Parvilucina tenuisculpta**(=Parvilucina sp.)*

## Lyonsiidae

*Lyonsia californica*

## Mactridae, unid. (juv.)

*Mactra californica**Mactra sp.**Spisula catilliformis**Spisula sp.**Tresus nuttalli*

## Montacutidae

*Orobitella sp.**Mysella pedroana**Mysella sp.*

20

## Myidae

*Cryptomya californica*

## Mytilidae, unid. (juv.)

*Amygdalum sp.**Modiolus sp.**Mytilus edulis*

10

## Ostreidae

*Ostrea lurida*

## Pectinidae

*Leptopecten latiauratus*

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## OLLUSCA (cont.)

## Pelecypoda (cont.)

## Petricolidae

*Petricola tellimyalis**Petricola sp.*

10

## Semelidae

*Cumingia californica**Theora lubrica*

## Solecurtidae

*Tagelus subteres*

## Solenidae

*Ensis myrae**Siliqua lucida**Solen sp. (juv.)*

## Tellinidae

*Leporimetis obesa**Macoma acolasta**Macoma carlottensis**Macoma nasuta**Macoma sp. (juv.)*

30 20

*Tellina modesta**Tellina sp. (juv.)*

## Thyasiridae

*Actinopista serricata**Thyasira flexuosa*

## Veneridae

*Chione ?undatella**Chione sp. (juv.)**Protothaca staminea**Protothaca sp.*

80 120 30

*Saxidomus nuttalli**Saxidomus sp. (juv.)*

10

*Polyplacophora, unid.*

## NEMERTEA, unid.

40 10 10

## PHORONIDA, unid.

*Phoronis pallida**Phoronis sp.**Phoronopsis sp.*

## PLATYHELMINTHES

*Polycladia, unid.*

## PROTOZOA

## Foraminifera

*"Rosalina-like" forams*

## SIPUNCULIDA, unid.

10

## HARBORS ENVIRONMENTAL PROJECTS

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<b>ANELIDA</b>					
OLIGOCHAETA, unid.	180	30	100	60	90
Tubificidae					
<i>Peloscolex gabriellae</i>					
POLYCHAETA					
Ampharetidae					
<i>Anpharete labrops</i>					
<i>Amphicteis scaphobranchiata</i>					
<i>Melinna oculata</i>					
Arabellidae, unid. (juv.)					
Capitellidae					
<i>Capitella capitata</i>	450	420	1840	730	110
<i>Mediomastus acutus</i>					
<i>Mediomastus californiensis</i>	20		40	310	30
(= <i>Capitita ambiseta</i> )		10			
<i>Notomastus tenuis</i>	10		20		
Chaetopteridae, unid. (frag.)					
<i>Spiochaetopterus costarum</i>					
Chrysopetalidae					
<i>Chrysopetalum occidentale</i>					
<i>Paleanotus bellis</i>					
Cirratulidae, unid.					
<i>Caulieriella alata</i>					
<i>Caulieriella bioculata</i>					
<i>Caulieriella horata</i>					
<i>Caulieriella sp.</i>					
<i>Chaetozone corona</i>			20	20	
<i>Chaetozone setosa</i>					
<i>Chaetozone sp.</i>					
<i>Cirratulus cirratus</i>					
<i>Cirriformia luxuriosa</i>			10	70	10
<i>Cirriformia sp (juv.)</i>					
<i>Tharyx nr. tessellata</i>					
<i>Tharyx spp.</i>	90	150	290	110	410
Cossuridae					
<i>Cossura candida</i>					
<i>Cossura pygodaectylata</i>		10	10	230	10
Ctenodrilidae					
<i>Ctenodrilus serratus</i>				20	
Dorvilleidae, unid.					
<i>Ophryotrocha puerilis</i>					
<i>Protodorvillea gracilis</i>					
<i>Schistomerengos longicornis</i>	40	90	230	200	160
Flabelligeridae, unid.					
<i>Pherusa capulata</i>					
<i>Pherusa sp.</i>					
Glyceridae					
<i>Glycera americana</i>					
<i>Glycera capitata</i>					
<i>Glycera convoluta</i>					
<i>Glycera rouxi</i>					
<i>Glycera sp. (juv.)</i>					

## HARBORS ENVIRONMENTAL PROJECTS

## BENTHIC DATA

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STATION MDR 8

## POLYCHAETA (cont.)

<i>Goniadidae</i> , unid. (juv.)					
<i>Glycinde armigera</i>					
<i>Goniada brunnea</i>					
<i>Goniada littorea</i>					
<i>Goniada sp.</i>					
<i>Hesionidae</i> , unid.					
<i>Hesionidae</i> , new genus					
<i>Gyptis brevipalpa</i>					
<i>Gyptis brunnea</i>					
<i>Ophiodromus pugettensis</i>					
<i>Lumbrineridae</i> , unid.					
<i>Lumbrineris ?crassidentata</i>					
<i>Lumbrineris erecta</i>					
<i>Lumbrineris ?tetaura</i>					
<i>Lumbrineris spp.</i>	20			10	90
<i>Magelonidae</i>					50
<i>Magelona sacculata</i>					
<i>Maldanidae</i> , unid. (frag.)					
<i>Asychis sp.</i>					
<i>Axiothella sp.</i>					
<i>Praxillella affinis pacifica</i>					
<i>Praxillella sp.</i>					
<i>Nephtyidae</i> , unid.					
<i>Nephtys caecoides</i>					
<i>Nephtys californiensis</i>					
<i>Nephtys cornuta franciscana</i>					
<i>Nephtys ferruginea</i>					
<i>Nereidae</i> , unid. (juv.)					
<i>Neanthea arenaceodentata</i>	10				
<i>Nercis latescens</i>					
<i>Nereis procera</i>	10				
<i>Nereis sp. (juv.)</i>					
<i>?Perinereis monterea</i>					
<i>Platynereis bicanaliculata</i>					
<i>Onuphidae</i> , unid. (juv.)					
<i>Diopatra ornata</i>					
<i>Diopatra splendidissima</i>					
<i>Diopatra sp. (juv.)</i>					
<i>Opheliidae</i>					
<i>Armandia bioculata</i>					
<i>Polyopthalmus pictus</i>					
<i>Orbiniidae</i>					
<i>Haploscoloplos elongatus</i>	50		560	600	280
<i>Naineris dendritica</i>					90
<i>Scoloplos acmeceps</i>					
<i>Oweniidae</i>					
<i>Owenia collaris</i>					
<i>Paraonidae</i>					
<i>Acesta catherinae</i>					
<i>Acesta horikoshii</i>					
<i>Paraonella platybranchia</i>					
(=Paraonides platybranchia)					

## HARBORS ENVIRONMENTAL PROJECTS

## BENTHIC DATA

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## STATION MDR

## POLYCHAETA (cont.)

## Pectinariidae

*Pectinaria californiensis*  
(=*P. c. newportensis*)

## Phyllodocidae, unid.

*Anaitides* nr. *pcytillosa*  
*Anaitides* sp. (juv.)  
*Eteone californica*  
*Eteone dilatae*  
*Eteone* sp.  
*Eulalia aviculifera*  
*Eulalia myriacyclum*  
*Eulalia quadriculata*  
*Eulalia* sp. (juv.)  
*Eunida bifoliata*  
*Eunida sanguinea*  
?*Genetyllis castanea*  
*Hesionura coineaui difficilis*  
*Phyllocoelus* sp.

10

## Pilargidae

*Ancistrosyllis hamata*  
*Sigambra tentaculata*

## Polynoidae, unid. (frag.)

*Halosydna johnsoni*  
*Halosydna* sp.  
*Harmothoe* ?*crassicornis*  
*Harmothoe hirsuta*  
*Harmothoe imbricata*  
*Harmothoe priops*  
*Harmothoe scriptoria*  
*Harmothoe* sp.  
*Lepidonotus* ?*squamatus*

## Sabellariidae

*Sabellaria cementarium*

## Sabellidae, unid.

*Chone ecaudata*  
*Chone* sp.  
*Euchone limnicola*  
*Megalomma pigmentum*  
?*Myxicola* ?*infundibulum*  
?*Potamilla* sp.

## Scalabregmidae

*Scalabregma inflatum*

## Serpulidae

*Eupomatus gracilis*  
*Hydroïdes pacifica*

60

## Sigalionidae

*Phloe glabra*  
*Sthenelanella uniformis*  
*Sthenelais verruculosa*

## Spionidae, unid.

*Boccardia* sp.  
*Boccardiella hamata*  
(=*Boccardia hamata*)  
*Laonice cirrata*

180	90	30
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HARBORS ENVIRONMENTAL PROJECTS BENTHIC DATA	B432		STATION MDR 8			
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<b>POLYCHAETA (cont.)</b>						
Spionidae, unid. (cont.)						
<i>Parapriionospio pinnata</i>						
<i>Polydora ligni</i>	290	100	40	110	70	
<i>Polydora socialis</i>						
<i>Polydora sp.</i>						
<i>Prionospio cirrijera</i>	20			20		
<i>Prionospio heterobranchia</i>	400	10	1890	2250	760	
(= <i>P. h. newportensis</i> )						
<i>Prionospio pygmaeus</i>						
<i>Prionospio sp.</i>						
<i>Pseudopolydora paucibranchiata</i>	790	4000	6300	3690	960	
<i>Rhynchoespio ?crenicola</i>						
<i>Rhynchoespio sp.</i>						
<i>Scolelepis acuta</i>	100	380	410	210	20	
(= <i>Nerinides acuta</i> )						
<i>Spio ?filicornis</i>						
<i>Spio maculata</i>						
(= <i>Nerinides maculata</i> )						
<i>Spiophanes missionensis</i>		10				
<i>Streblospio benedicti</i>	40	90	80	240		
Spirorbidae						
<i>Janua brasiliensis</i>						
<i>Pileolaria pseudomilitaris</i>						
Syllidae, unid.						
<i>Autolytus sp.</i>						
<i>Brania sp.</i>					360	
<i>Eusyllis sp.</i>						
<i>Exogone gemmifera</i>						
<i>Exogone lourei</i>	310	350	180	530	160	
<i>Exogone verugera</i>						
<i>Erogone sp.</i>						
<i>Odentosyllis phosphorea</i>						
<i>Sphaerosyllis californiensis</i>						
<i>Sphaerosyllis sp.</i>						
<i>Syllides sp.</i>						
?Syllis sp.						
<i>Typosyllis ?hyalina</i>						
<i>Typosyllis sp.</i>						
Terebellidae, unid.						
<i>Amaeana occidentalis</i>				10	10	
<i>Pista fasciata</i>						
<i>Pista ?disjuncta</i>						
<i>Pista sp. (juv.)</i>						
<i>Streblosoma crassibranchia</i>						
<b>ARTHROPODA--CRUSTACEA</b>						
Amphipoda						
<i>Caprellidea, unid.</i>				20	100	
<i>Gammaridea, unid.</i>	20			10	10	
Copepoda						
<i>Calanoida, unid.</i>						
<i>Cyclopoida, unid.</i>				10		
<i>Clausidium vancouverense</i>						
<i>Harpacticoida, unid.</i>						

## HARBORS ENVIRONMENTAL PROJECTS

## BENTHIC DATA

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## ARTHROPODA CRUSTACEA (cont.)

## Cumacea, unid.

*Cyclaspis* sp.*Diastylis* sp.*Diastylopsis tenuis**Oxyurostylus pacifica*

## Decapoda

Decapod zoea larvae

10

## Anomura

Paguridae

*Pagurus* sp.

## Brachyura

## Canceridae

*Cancer anthonyi**Cancer gracilis**Cancer* sp. (juv.)

## Grapsidae

*Hemigrapsus oregonensis**Hemigrapsus* sp. (juv.)

20

## Majidae

*Pyromaiia tuberculata*

## Pinnotheridae, unid.

*Opisthopus transversus**Pinnixa franciscana**Pinnixa* sp.*Scleroplaix granulata*

## Caridea

## Alpheidae, unid.

*Alpheus californiensis**Alpheus equidactylus**Betaeus* sp. (frag.)

## Palaemonidae

*Palaemonella holmesi*

## Macrura

## Callianassidae

*Callianassa* sp.*Upogebia* sp.

## Isopoda, unid.

30

60

20

*Edotea* sp.*Limnoria* sp.*Munna* sp.

## Mysidacea, unid.

## Nebaliacea, unid.

## Ostracoda, unid.

*Cylindroleberidinae, unid.**Philomedes* sp.*Rutiderma rostrata*

## Tanaidacea, unid.

60

10

10

*Anatanais normani**Leptocheilia* sp.

## Thoracica

*Balanus pacificus*

HARBORS ENVIRONMENTAL PROJECTS  
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## ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Thoracica (cont.)

- Balanus tintinnabulum californicus*
- Balanus trigonus*
- Balanus* sp.

## ARTHROPODA--INSECTA

Chironomidae, larvae

*Paraclunio alaskensis* (larvae)

## ARTHROPODA--PYCNOGONIDA

- Anoplodactylus erectus*
- Callipallene californiensis*
- Pallenidae, unid.
- Tantystylum intermedium*

## ASCHELMINTHES

Nematoda, unid.

10

## BRACHIOPODA

*Glottidia albida*

## BRYOZOA (=ECTOPROCTA)

- Bowerbankia gracilis*
- Bugula neritina*
- Bugula stolonifera*  
(=*Bugula californica*)
- Celleporaria brunnea*
- Cryptosula pallasiana*
- Schizoporella unicornis*
- Watersipora arcuata*
- Zoobotryon verticillatum*

## CHORDATA

Cephalochordata

*Branchiostoma californiense*

Osteichthys

Gobiesocidae

*Gobiesox rheissodon*

Gobieidae, unid.

Gobieidae, larvae

80

*Clevelandia ios*

10

10

10

*Ilypnus gilberti*

10

30

20

*Lepidogobius lepidus*

Urochordata

Ascidacea, unid.

*Botryllus* sp.*Ciona intestinalis**Mogula pugetiensis*

20

*Styela clava**Styela plicata*

## CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria, unid.

*Diadumene* sp.*Edwardsia californica**Edwardsia nr. sippunculoides**Edwardsia* sp. (juv.)

70



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## STATION MDR 8

## MOLLUSCA (cont.)

## Gastropoda--Prosobranchia (cont.)

## Neogastropoda

## Columbellidae

*Mitrella carinata**Mitrella sp.*

## Muricidae

*Pteropurpura festiva*

## Nassariidae

*Nassarius mendicus**Nassarius perpinguis**Nassarius sp.*

## Olividae

*Olivella baetica*

## Turridae

*Kurtziella plumbea*

## Pelecypoda, unid. (juv.)

## Cardiidae

*Laevicardium substriatum*

## Cooperellidae

*Cooperella subdiaphana*

## Donacidae

*Donax gouldii*

## Erycinidae

*Lasea subviridis*

## Hiatellidae

*Hiatella arctica*

## Leptonidae

*"Lepton meroicum"*

## Lucinidae

*Parvilucina tenuisculpta**(=Parvilucina sp.)*

## Lyonsiidae

*Lyonsia californica*

## Mactridae, unid. (juv.)

*Mactra californica**Mactra sp.**Spisula catilliformis**Spisula sp.**Tresus nuttalli*

## Montacutidae

*Orobitella sp.**Mysella pedroana**Mysella sp.*

## Myidae

*Cryptomya californica*

## Mytilidae, unid. (juv.)

*Amygdalum sp.**Modiolus sp.**Mytilus edulis*

## Ostroidea

*Cotrea lurida*

## Pectinidae

*Leptopecten latiauratus*

## HARBORS ENVIRONMENTAL PROJECTS

## BENTHIC DATA

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MOLLUSCA (cont.)					
Pelecypoda (cont.)					
Petricolidae					
<i>Petricola tellinialis</i>					
<i>Petricola</i> sp.					
Semelidae					
<i>Cumingia californica</i>					
<i>Theora lubrica</i>			80	100	40
Solecurtidae					
<i>Tagelus subteres</i>					
Solenidae					
<i>Ensis myrae</i>					
<i>Siliqua lucida</i>					
<i>Solen</i> sp. (juv.)					
Tellinidae					
<i>Leporimetis obesa</i>					
<i>Macoma acolasta</i>					
<i>Macoma carlottensis</i>					
<i>Macoma nasuta</i>					10
<i>Macoma</i> sp. (juv.)			10		
<i>Tellina modesta</i>					
<i>Tellina</i> sp. (juv.)					
Thyasiridae					
<i>Arinopsis serricata</i>					
<i>Thyasira flexuosa</i>					
Veneridae					
<i>Chione ?uidatella</i>					
<i>Chione</i> sp. (juv.)					
<i>Protothaca staminea</i>					
<i>Protothaca</i> sp.					
<i>Saxidomus nuttalli</i>					
<i>Saxidomus</i> sp. (juv.)					
Polyplacophora, unid.					
NEMERTEA, unid.			10		
PHORONIDA, unid.					
<i>Phoronis pallida</i>					
<i>Phoronis</i> sp.					
<i>Phoronopsis</i> sp.					
PLATYHELMINTHES					
<i>Polycladia</i> , unid.					
PROTOZOA					
Foraminifera					
<i>"Rosalina-like" forams</i>					
SIPUNCULIDA, unid.					

HARBORS ENVIRONMENTAL PROJECTS  
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NENELIDA

OLIGOCHAETA, unid. 40 10 30 50 50

Tubificidae

*Feloscolex gabriellae*

POLYCHAETA

Ampharetidae

*Ampharctie labrops*

*Amphicteis scaphobranchiata*

*Melinna oculata*

Arabellidae, unid. (juv.)

Capitellidae

*Capitella capitata* 350 690 1600 1630

*Mediomastus acutus*

*Mediomastus californiensis* 230 50 170 50 440  
(=*Capitita ambiseta*)

*Notomastus tenuis*

170 190 70

Chaetopteridae, unid. (frag.)

*Spiochaetopterus costarum*

Chrysopetalidae

*Chrysopetalum occidentale*

*Paleonotus bellis*

Cirratulidae, unid.

*Caulieriella alata*

*Caulieriella bioculata*

*Caulieriella hamata*

*Caulieriella sp.*

*Chaetozone corona*

30 40

*Chaetozone setosa*

*Chaetozone sp.*

*Cirratulus cirratus*

*Cirriformia luxuriosa*

10 10 110 10

*Cirriformia sp (juv.)*

290

*Tharyx nr. tessellata*

*Tharyx spp.*

70 30 450 300 60

Cossuridae

*Cossura candida*

*Cossura pygodaectylata*

30 110 60 10

Ctenodrilidae

*Ctenodrilus serratus*

200

Dorvilleidae, unid.

*Ophryotrocha puerilis*

*Protodorvillea gracilis*

*Schistomerengos longicornis*

20 60 50 150 10

Flabelligeridae, unid.

*Pherusa capulata*

*Pherusa sp.*

Glyceridae

*Glycera americana*

*Glycera capitata*

*Glycera convoluta*

*Glycera rouxi*

*Glycera sp. (juv.)*

## HARBORS ENVIRONMENTAL PROJECTS

## BENTHIC DATA

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POLYCHAETA (cont.)					
Goniadidae, unid. (juv.)					
<i>Glycinde armigera</i>					
<i>Goniada brunnea</i>					
<i>Goniada littorea</i>					
<i>Goniada sp.</i>					
Hesionidae, unid.					
<i>Hesionidae, new genus</i>					
<i>Cyptis brevipalpa</i>					
<i>Cyptis brunnea</i>					
<i>Ophiodromus puggettensis</i>					
Lumbrineridae, unid.	50				
<i>Lumbrineris ?crassidentata</i>					
<i>Lumbrineris erecta</i>					
<i>Lumbrineris ?tetaura</i>					
<i>Lumbrineris spp.</i>	100	120	20	130	
Magelonidae					
<i>Magelona sacculata</i>					
Maldanidae, unid. (frag.)					
<i>Asychis sp.</i>					
<i>Axiothella sp.</i>					
<i>Praxiliella affinis pacifica</i>					
<i>Praxillella sp.</i>					
Nephtyidae, unid.					
<i>Nephtys caecoides</i>					
<i>Nephtys californiensis</i>					
<i>Nephtys cornuta franciscana</i>	10				
<i>Nephtys ferruginea</i>					
Nereidae, unid. (juv.)					
<i>Neanthes arenaceodentata</i>	10				
<i>Nereis latescens</i>			20		
<i>Nereis procera</i>					
<i>Nereis sp. (juv.)</i>		30			
<i>?Perinereis monterea</i>					
<i>Platynereis bicanaliculata</i>	10				
Onuphidae, unid. (juv.)					
<i>Diopatra ornata</i>					
<i>Diopatra splendidissima</i>					
<i>Diopatra sp. (juv.)</i>					
Opheliidae					
<i>Armandia bioculata</i>					
<i>Polyopthalamus pictus</i>			80		
Orbiniidae					
<i>Raploscoloplos elongatus</i>	80	40	20	30	160
<i>Naineris dendritica</i>					
<i>Scoloplos acmeceps</i>					
Oweniidae					
<i>Owenia collaris</i>					
Parachnidae					
<i>Acesta catherinae</i>					
<i>Acesta horikoshii</i>					
<i>Paraonella platybranchia</i>					
(=Paraonides platybranchia)					

HARBORS ENVIRONMENTAL PROJECTS  
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## POLYCHAETA (cont.)

## Pectinariidae

*Pectinaria californiensis*  
(=*P. c. newportensis*)

## Phyllodocidae, unid.

*Anaitides nr. papillosa*  
*Anaitides sp.* (juv.)  
*Eteone californica*  
*Eteone dilatae*  
*Eteone sp.*  
*Eulalia aviculifera*  
*Eulalia ?myriacyclum*  
*Eulalia quadrioculata*  
*Eulalia sp.* (juv.)  
*Eumida bifoliata*  
*Eumida sanguinea*  
*?Genetyllis castanea*  
*Hesionura coinei* *difficilis*  
*Phyllocoelus sp.*

## Pilargidae

*Ancistrosyllis hamata*  
*Sigambra tentaculata*

## Polynoidae, unid. (frag.)

*Halosydna johnsoni*  
*Halosydna sp.*  
*Harmothoe ?crassicirrata*  
*Harmothoe hirsuta*  
*Harmothoe imbricata*  
*Harmothoe priops*  
*Harmothoe scriptoria*  
*Harmothoe sp.*  
*Lepidonotus ?squamatus*

## Sabellariidae

*Sabellaria cementarium*

## Sabellidae, unid.

*Chone ecaudata*  
*Chone sp.*  
*Euchone limnicola*  
*Megalorma pigmentum*  
*Myxicola ?infundibulum*  
*?Potamilla sp.*

## Scalabregmidae

*Scalabregma inflatum*

## Serpulidae

*Eupomatus gracilis*  
*Hydrodoides pacifica*

10

## Sigalionidae

*Pholoe glabra*  
*Sthenelanella uniformis*  
*Sthenelais verruculosa*

## Spionidae, unid.

*Boccardia sp.*  
*Boccardiella hamata*  
(=*Boccardia hamata*)  
*Laonice cirrata*

30

200	460	320
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HARBORS ENVIRONMENTAL PROJECTS BENTHIC DATA	B441				STATION MDR 9
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POLYCHAETA (cont.)					
<i>Spionidae</i> , unid. (cont.)					
<i>Paraprionospio pinnata</i>					
<i>Polydora ligni</i>	90	70	120	420	10
<i>Polydora socialis</i>					
<i>Polydora</i> sp.					
<i>Prionospio cirrifera</i>					
<i>Prionospio heterobranchia</i> (=P. h. newportensis)	190	40	110	160	240
<i>Prionospio pygmaceus</i>					
<i>Prionospio</i> sp.					
<i>Pseudopolydora paucibranchiata</i>	1620	3130	4000	3020	1290
<i>Rhynchospio ?arenicola</i>					
<i>Rhynchospio</i> sp.					
<i>Scolelepis acuta</i> (=Nerinides acuta)	20	150	310	60	30
<i>Spi? filicornis</i>					
<i>Spio maculata</i> (=Nerinides maculata)					
<i>Spiophanes missionensis</i>					
<i>Streblospio benedicti</i>		500	440		20
<i>Spirorbidae</i>					330
<i>Janua brasiliensis</i>					
<i>Pileolaria pseudomilitaris</i>					
<i>Syllidae</i> , unid.		10			
<i>Autolytus</i> sp.					
<i>Brania</i> sp.					
<i>Eusyllis</i> sp.					
<i>Exogone gemmifera</i>					
<i>Exogone lourei</i>					
<i>Exogone verugera</i>					
<i>Exogone</i> sp.			10		
<i>Odontosyllis phosphorea</i>					
<i>Sphaerosyllis californiensis</i>		70	10	10	
<i>Sphaerosyllis</i> sp.					
<i>Syllides</i> sp.					
<i>?Syllis</i> sp.					
<i>Typosyllis ?hyalina</i>					
<i>Typosyllis</i> sp.					
<i>Terebellidae</i> , unid.					
<i>Amaeana occidentalis</i>					
<i>Pista fasciata</i>					
<i>Pista ?disjuncta</i>					
<i>Pista</i> sp. (juv.)					
<i>Streblosoma crissibranchia</i>					

## ARTHROPODA--CRUSTACEA

<i>Amphipoda</i>					
<i>Caprellidea</i> , unid.					
<i>Gammaridea</i> , unid.					10
<i>Copepoda</i>					
<i>Calanoida</i> , unid.					
<i>Cyclopoida</i> , unid.					
<i>Clausidium vancouverense</i>					
<i>Harpacticoida</i> , unid.					

## HARBORS ENVIRONMENTAL PROJECTS

STATION MDR 9

## BENTHIC DATA

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## ARTHROPODA CRUSTACEA (cont.)

## Cumacea, unid.

*Cyclaspis* sp.*Diastylis* sp.*Diastylopsis tenuis**Oxyurostylus pacifica*

10

## Decapoda

Decapod zoea larvae

## Anomura

## Paguridae

*Pagurus* sp.

## Brachyura

## Canceridae

*Cancer anthonyi**Cancer gracilis**Cancer* sp. (juv.)

## Grapsidae

*Hemigrapsus oregonensis*

30

*Hemigrapsus* sp. (juv.)

## Majidae

*Pyromais tuberculata*

## Pinnotheridae, unid.

*Opisthopus transversus**Pinnixa franciscana**Pinnixa* sp.*Scleroplax granulata*

## Caridea

## Alpheidae, unid.

*Alpheus californiensis**Alpheus equidactylus**Betacus* sp. (frag.)

## Palaemonidae

*Palaemonella holmesi*

## Macrura

## Callianassidea

*Callianassa* sp.*Upogebia* sp.

## Isopoda, unid.

*Edotea* sp.*Limnoria* sp.*Munna* sp.

## Mysidacea, unid.

10

80

## Nebaliacea, unid.

## Ostracoda, unid.

*Cylindroleberidinae*, unid.*Philomedes* sp.*Rutiderma rostrata*

## Tanaidacea, unid.

*Anatanaid normani**Leptocheilia* sp.

## Thoracica

*Balanus pacificus*

10

## HARBORS ENVIRONMENTAL PROJECTS

## BENTHIC DATA

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## STATION MDR 9

## ARTHROPODA CRUSTACEA (cont.)

## Decapoda (cont.)

## Thoracica (cont.)

*Balanus tintinnabulum californicus**Balanus trigonus**Balanus sp.*

## ARTHROPODA--INSECTA

## Chironomidae, larvae

*Paraciunio alaskensis* (larvae)

## ARTHROPODA--PYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis**Pallenidae, unid.**Tantystylum intermedium*

## ASCHELMINTHES

*Nematoda, unid.*

## BRACHIOPODA

*Glottidia albida*

## BRYOZOA (=ECTOPROCTA)

*Bowerbankia gracilis**Bugula neritina**Bugula stolonifera**(=Bugula californica)**Celleporaria briunnea**Cryptosula pallasiana**Schizoporella unicornis**Watersipora arcuata**Zoobotryon verticillatum*

## CHORDATA

## Cephalochordata

*Branchiostoma californiense*

## Osteichthys

## Gobiesocidae

*Gobiesox rhessodon*

## Gobieidae, unid.

## Gobieidae, larvae

*Clevelandia ios**Ilypnus gilberti**Lepidogobius lepidus*

## Urochordata

## Ascidacea, unid.

*Botryllus sp.**Ciona intestinalis**Mogula pugetensis**Styela clava**Styela plicata*

10	30	10	50
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## CNIDARIA (=COELENTERATA)

## Anthozoa

## Actinaria, unid.

*Diadumene sp.**Edwardsia californica**Edwardsia nr. sippunculoides**Edwardsia sp. (juv.)*

10	20
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## CNIDARIA (Cont.)

## Anthozoa

*Actinaria*, unid.*Edwardsiidae*, unid.*Mesactinia* sp. A*Ceriantharia*, unid.

## Hydrozoa--Hydriida

*Aglaphenia diversidentata**Aglaphenia* nr. *pluma**Corymorphia aurata*

40

## ECHINODERMATA

*Echinoidea*, unid. (juv.)*Strongylocentrotus purpuratus**Holothuroidea*, unid.*Ophiuroidea*, unid. (juv.)

## ECHURA

*Urechis caupo*

## HEMICHORDATA

*Enteropneusta*, unid.

## MOLLUSCA--Gastropoda, unid. (juv.)

*Gastropoda*--Ophistobranchia*Cephalaspidea*, unid.*Acteocina harpa**Acteocina inculta*

800	310	3270	650	210
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*Aglaja* sp.*Bulla gouldiana**Rictaxis punctocaulatus**Sulcoretusa* sp.*Woodbridgea* sp.

80

*Nudibranchia*, unid.*Acanthodoris* sp.*Trinchesia* sp.*Pyramidellida**Odostomia* sp.*Gastropoda*--Prosobranchia*Mesogastropoda**Caecidae**Caecum* sp.*Furtulum* sp.*?Micranellium* sp.*Calyptraeidae**Crepidula dorsata*(*=Crepidatella lingulata*)*Crepidula onyx**Crepidula prefornans**Crepidula* sp. (juv.)*Lamellariidae**Lamellaria sharonae**Naticidae**Neverita reclusiana**Sinum* sp.*Vitrinellidae**Vitrinella oldroydi*

## HARBORS ENVIRONMENTAL PROJECTS

## BENTHIC DATA

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## MOLLUSCA (cont.)

## Gastropoda--Prosobranchia (cont.)

## Neogastropoda

## Columbellidae

*Mitrella carinata**Mitrella sp.*

## Muricidae

*Pteropurpura festiva*

## Nassariidae

*Nassarius mendicus**Nassarius perpinguis**Nassarius sp.*

## Olividae

*Olivella baetica*

## Turridae

*Kurtziella plumbea*

## Pelecypoda, unid. (juv.)

## Cardiidae

*Laevicardium substriatum*

## Cooperellidae

*Cooperella subdiaphana*

## Donacidae

*Donax gouldii*

## Erycinidae

*Lasaea subviridis*

## Hiatellidae

*Hiatella arctica*

## Leptonidae

*"Lepton meroeum"*

## Lucinidae

*Parvilucina tenuisculpta**(=Parvilucina sp.)*

## Lyonsiidae

*Lyonsia californica*

## Mactridae, unid. (juv.)

*Mactra californica**Mactra sp.**Spisula catilliformis**Spisula sp.**Tresus nuttalli*

## Montacutidae

*Orobitella sp.**Mysella pedroana**Mysella sp.*

## Myidae

*Cryptomya californica*

## Mytilidae, unid. (juv.)

*Amygdalum sp.**Modiolus sp.**Mytilus edulis*

## Ostreidae

*Ostrea lurida*

## Pectinidae

*Leptopecten latiauratus*

## HARBORS ENVIRONMENTAL PROJECTS

## BENTHIC DATA

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MOLLUSCA (cont.)					
Pelecypoda (cont.)					
Petricolidae					
<i>Petricola tellimyalis</i>					
<i>Petricola</i> sp.					
Semelidae					
<i>Cumingia californica</i>					
<i>Theora lubrica</i>		20			20
Solecurtidae					
<i>Tagelus subteres</i>			10		
Solenidae					
<i>Ensis myrae</i>					
<i>Siliqua lucida</i>					
<i>Solen</i> sp. (juv.)					
Tellinidae					
<i>Leporimetis obesa</i>					
<i>Macoma acolasta</i>					
<i>Macoma carlottensis</i>					
<i>Macoma nasuta</i>				10	20
<i>Macoma</i> sp. (juv.)					
<i>Tellina modesta</i>					
<i>Tellina</i> sp. (juv.)	20				
Thyasiridae					
<i>Axinopsida serricata</i>					
<i>Thyasira flexuosa</i>					
Veneridae					
<i>Chione undatella</i>					
<i>Chione</i> sp. (juv.)					
<i>Protothaca staminea</i>					
<i>Protothaca</i> sp.					
<i>Saxidomus nuttalli</i>	40		10		30
<i>Saxidomus</i> sp. (juv.)					
Polyplacophora, unid.					
NEMERTEA, unid.	10				
PHORONIDA, unid.					
<i>Phoronis pallida</i>					
<i>Phoronis</i> sp.					
<i>Phoronopsis</i> sp.					
PLATYHELMINTHES					
<i>Polycladia</i> , unid.			10		10
PROTOZOA					
Foraminifera					
"Rosalina-like" forams					
SIPUNCULIDA, unid.					

HARBORS ENVIRONMENTAL PROJECTS BENTHIC DATA						STATION MDR 10
	17 Mar 1978	16 Jun 1978	21 Sep 1978	15 Dec 1978	13 Apr 1979	
<b>ANNELIDA</b>						
OLIGOCHAETA, unid.						
Tubificidae	6390	260	300	260	1010	
<i>Floscolex gabriellae</i>						
POLYCHAETA						
Ampharetidae						
<i>Ampharete labrops</i>						
<i>Amphicteis scaphobranchiata</i>						
<i>Melinna oculata</i>						
Arabellidae, unid. (juv.)						
Capitellidae						
<i>Capitella capitata</i>	5090	1880	590	870	4570	
<i>Mediomastus acutus</i>						
<i>Mediomastus californiensis</i>	20	50	30	10	10	
(=Capitita ambiseta)						
<i>Notomastus tenuis</i>	10				10	
Chaetopteridae, unid. (frag.)						
<i>Spiochaetopterus costarum</i>						
Chrysopetalidae						
<i>Chrysopetalum occidentale</i>						
<i>Paleonotus bellis</i>						
Cirratulidae, unid.		10				
<i>Caulieriella alata</i>						
<i>Caulieriella bicollata</i>						
<i>Caulieriella hamata</i>						
<i>Caulieriella sp.</i>						
<i>Chaetozone corona</i>		10	20		10	
<i>Chaetozone setosa</i>						
<i>Chaetozone sp.</i>						
<i>Cirratulus cirratus</i>	10		20		60	
<i>Cirriformia luxuriosa</i>						
<i>Cirriformia sp (juv.)</i>						
<i>Tharyx nr. tesselata</i>						
<i>Tharyx spp.</i>	60	370	60	160	100	
Cossuridae						
<i>Cossura candida</i>			10			
<i>Cossura pygodaclata</i>		30	720	130	110	
Ctenodrilidae						
<i>Ctenodrilus serratus</i>						
Dorvilleidae, unid.						
<i>Ophryotrocha puerilis</i>						
<i>Protodorvillea gracilis</i>						
<i>Schistomerings longicornis</i>	1230	330	70	80	550	
Flabelligeridae, unid.						
<i>Pherusa capulata</i>						
<i>Pherusa sp.</i>						
Glyceridae						
<i>Glycera americana</i>						
<i>Glycera capitata</i>						
<i>Glycera connoluta</i>						
<i>Glycera sp. unid.</i>						
<i>Glycera sp. (juv.)</i>					20	

## RBORS ENVIRONMENTAL PROJECTS

## NTHIC DATA

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<b>LYCHAETA (cont.)</b>						
Goniadidae, unid. (juv.)						
<i>Glycinde armigera</i>						
<i>Goniada brunnea</i>						
<i>Goniada littorea</i>						
<i>Goniada sp.</i>						
Hesionidae, unid.						
<i>Hesionidae, new genus</i>						
<i>Gyptis brevipalpa</i>					10	
<i>Gyptis brunnea</i>						
<i>Ophiodromus pugettensis</i>					20	
Lumbrineridae, unid.						
<i>Lumbrineris ?crassidentata</i>						
<i>Lumbrineris erecta</i>						
<i>Lumbrineris ?tetaura</i>						
<i>Lumbrineris spp.</i>	10	20	50	30	40	
Magelonidae						
<i>Magelona sacculata</i>						
Maldanidae, unid. (frag.)						
<i>Asychis sp.</i>						
<i>Axiothella sp.</i>						
<i>Praxillella affinis pacifica</i>						
<i>Praxillella sp.</i>						
Nephtyidae, unid.						
<i>Nephtys caecoides</i>						
<i>Nephtys californiensis</i>						
<i>Nephtys cornuta franciscana</i>	40	20		10	10	
<i>Nephtys ferruginea</i>						
Nereidae, unid. (juv.)						
<i>Neanthes arenaceodentata</i>	10					
<i>Nereis latescens</i>						
<i>Nereis procera</i>				10		
<i>Nereis sp. (juv.)</i>						
<i>?Perinereis monterea</i>						
<i>Platynereis bicanaliculata</i>		10				
Onuphidae, unid. (juv.)						
<i>Diopatra ornata</i>						
<i>Diopatra splendidissima</i>						
<i>Diopatra sp. (juv.)</i>						
Opheliidae						
<i>Armandia bioculata</i>				10	10	
<i>Polyopthalampus pictus</i>				10		
Orbiniidae						
<i>Haploscoloplos elongatus</i>	20	70	60	50	200	
<i>Naineris dendritica</i>						
<i>Scoloplos acmeceps</i>						
Oweniidae						
<i>Owenia collaris</i>						
Paraonidae						
<i>Acesta catherinae</i>						
<i>Acesta horikoshii</i>						
<i>Paraonella platybranchia</i>						
( <i>=Paraonides platybranchia</i> )						

## HARBORS ENVIRONMENTAL PROJECTS

## BENTHIC DATA

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## POLYCHAETA (cont.)

## Pectinariidae

*Pectinaria californiensis* (=*P. c. newportensis*) 10 10 60

## Phyllodocidae, unid.

*Anaitides nr. papillosa*

*Anaitides sp. (juv.)*

*Eteone californica*

*Eteone dilatae*

*Eteone sp.*

*Eulalia aciculicesta*

*Eulalia ?myriacyclum*

*Eulalia quadrioculata*

*Eulalia sp. (juv.)*

*Eumida bifoliata*

10 10

*Eumida sanguinea*

?*Genetyllis castanea*

*Hesionura coineau i difficultis*

*Phyllodocae sp.*

## Pilarciidae

*Ancistrosyllis hamata*

*Sigambra tentaculata*

## Polynoidae, unid. (frag.)

*Halosydna johnsoni*

*Halosydna sp.*

*Harmothoe ?crassicirrata*

*Harmothoe hirsuta*

*Harmothoe imbricata*

10 60

*Harmothoe priops*

*Harmothoe scriptoria*

*Harmothoe sp.*

*Lepidonotus ?squamatus*

## Sabellariidae

*Sabellaria cementarium*

## Sabellidae, unid.

*Chone ecaudata*

*Chone sp.*

10

*Euchone limnicola*

*Megalomma pigmentum*

*Myxicola ?infundibulum*

?*Potamilla sp.*

## Scalabregmidae

*Scalabregma inflatum*

## Serpulidae

*Eupomatus gracilis*

*Hydroïdes pacifica*

20

## Sigalionidae

*Pholoe glabra*

*Sthenelanella uniformis*

*Sthenelais verruculosa*

## Spionidae, unid.

*Boccardia sp.*

*Boccardiella hamata*

(=*Boccardia hamata*)

120 90 10

130

*Laonice cirrata*

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<b>POLYCHAETA (cont.)</b>					
<i>Spionidae, unid. (cont.)</i>					
<i>Parapriionospio pinnata</i>					
<i>Polydora ligni</i>	640	430	290	120	810
<i>Polydora socialis</i>					
<i>Polydora sp.</i>					
<i>Prionospio cirrifera</i>			10	60	
<i>Prionospio heterobranchia</i>	200	40	140	60	1440
(=P.h. newportensis)					
<i>Prionospio pygmaeus</i>					
<i>Prionospio sp.</i>					
<i>Pseudopolydora paucibranchiata</i>	570	4210	1120	1610	3520
<i>Rhynchospius tarenicola</i>					
<i>Rhynchospius sp.</i>					
<i>Scolelepis acuta</i>		280			110
(=Nerinides acuta)					
<i>Spiro ?filicornis</i>					
<i>Spiro maculata</i>					
(=Nerinides maculata)					
<i>Spiophanes missionensis</i>					
<i>Streblospius benedicti</i>	600	50	120	300	2720
<i>Spirorbidae</i>					
<i>Janua brasiliensis</i>					
<i>Pileolaria pseudomilitaris</i>					
<i>Syllidae, unid.</i>					
<i>Autolytus sp.</i>		10			
<i>Brania sp.</i>					20
<i>Eusyllis sp.</i>					
<i>Exogone germini</i>					
<i>Exogone lourei</i>			20		20
<i>Exogone verugera</i>					10
<i>Exogone sp.</i>					
<i>Odontosyllis phosphorea</i>					
<i>Sphaerosyllis californiensis</i>	10			10	
<i>Sphaerosyllis sp.</i>					
<i>Syllides sp.</i>					
<i>?Syllis sp.</i>	20				
<i>Typosyllis ?hyalina</i>					
<i>Typosyllis sp.</i>					
<i>Terebellidae, unid.</i>					
<i>Amoeana occidentalis</i>			10		
<i>Pista fasciata</i>					
<i>Pista ?disjuncta</i>					
<i>Pista sp. (juv.)</i>					
<i>Streblosoma crassibranchia</i>					
<b>ARTHROPODA--CRUSTACEA</b>					
<i>Amphipoda</i>					
<i>Caprellidea, unid.</i>	70	110	10	20	610
<i>Gammaridea, unid.</i>			10	10	
<i>Copepoda</i>					
<i>Calanoida, unid.</i>					
<i>Cyclopoida, unid.</i>					
<i>Clausidium vancouverense</i>	20				
<i>Harpacticoida, unid.</i>					

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## STATION MDR 10

## ARTHROPODA CRUSTACEA (cont.)

## Cumacea, unid.

*Cyclaspis* sp.*Diastylis* sp.*Diastylopsis tenuis**Oxyurostylus pacifica*

10

## Decapoda

## Decapod zoea larvae

## Anomura

## Paguridae

*Pagurus* sp.

## Erachyura

## Canceridae

*Cancer anthonyi**Cancer gracilis**Cancer* sp. (juv.)

## Grapsidae

*Hemigrapsus oregonensis*

10

10

*Hemigrapsus* sp. (juv.)

## Majidae

*Pyromia tuberculata*

## Pinnotheridae, unid.

*Opisthopus transversus**Pinnixa franciscana**Pinnixa* sp.*Scleroplax granulata*

20

## Caridea

## Alpheidae, unid.

*Alpheus californiensis**Alpheus equidactylus**Betaeus* sp. (frag.)

## Palaemonidae

*Palaemonella holmesi*

## Macrura

## Callianassidae

*Callianassa* sp.

10

10

*Upogebia* sp.

10

## Isopoda, unid.

*Edotea* sp.*Limnoria* sp.*Morina* sp.

50

## Mysidacea, unid.

## Nebaliacea, unid.

## Ostracoda, unid.

*Cylindroleberidinae, unid.**Philomedes* sp.*Rutiderma rostrata*

## Tanaidacea, unid.

*Anatanais normani**Leptochelia* sp.

## Thoracica

*Balanus pacificus*

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## ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Thoracica (cont.)

- Balanus tintinnabulum californicus*
- Balanus trigonus*
- Balanus sp.*

## ARTHROPODA--INSECTA

Chironomidae, larvae

*Paraclitnia alaskensis* (larvae)

## ARTHROPODA--PYCNOGONIDA

- Anoplodactylus erectus*
- Callipallene californiensis*
- Pallenidae, unid.
- Tantystylum intermedium*

## ASCHELMINTHES

Nematoda, unid.

3060

## BRACHIOPODA

*Glottidia albida*

## BRYOZOA (=ECTOPROCTA)

- Bowerbankia gracilis*
- Bugula neritina*
- Bugula stolonifera*  
(=*Bugula californica*)
- Celleporaria brunnea*
- Cryptosula pallasiana*
- Schiaoporella unicornis*
- Watersipora arcuata*
- Zoobotryon verticillatum*

## CHORDATA

Cephalochordata

*Branchiostoma californiense*

Osteichthys

Gobiesocidae

*Gobiesox rhessodon*

Gobieidae, unid.

10

Gobieidae, larvae

1030

1290

*Clevelandia ios*

10

10

*Ilypnus gilberti*

10

*Lepidogobius lepidus*

Urochordata

Ascidacea, unid.

*Botryllus sp.**Ciona intestinalis**Mogula pugetensis**Styela clava**Styela plicata*

10

## CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria, unid.

*Diadumene sp.**Edwardsia californica**Edwardsia nr. sippunculoides**Edwardsia sp. (juv.)*

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## CNIDARIA (Cont.)

## Anthozoa

- Actinaria, unid.
- Edwardsiidae, unid.
- Mesacmaea* sp. A
- Ceriantharia, unil.
- Hydrozoa--Hydroida
  - Aglaophenia diversidentata*
  - Aglaophenia* nr. *plura*
  - Corymorphia aurata*

30

## ECHINODERMATA

- Echinoidea, unid. (juv.)
- Strongylocentrotus purpuratus*
- Holothuroidea, unid.
- Ophiuroidea, unid. (juv.)

## ECHURA

- Urechis caupo*

## HEMICORDATA

- Enteropneusta*, unid.

## MOLLUSCA--Gastropoda, unid. (juv.)

## Gastropoda--Ophistobranchia

- Cephalaspidea, unid.

- Acteocina harpa*
- Acteocina inculta*
- Aglaja* sp.
- Bulla gouldiana*
- Rictaxis punctocaulatus*
- Sulcoretusa* sp.
- Woodbridgea* sp.
- Nudibranchia, unid.
- Acanthodoris* sp.
- Trinchesia* sp.

190	3370	4430	580	70
20				10

## Pyramidellida

- Odostomia* sp.

## Gastropoda--Prosobranchia

## Mesogastropoda

- Caecidae
  - Caecum* sp.
  - Furtulium* sp.
  - ?*Micranellium* sp.
- Calyptraeidae
  - Crepidula dorsata*  
(=*Crepidatella lingulata*)
  - Crepidula onyx*
  - Crepidula perforans*
  - Crepidula* sp. (juv.)

50

20

## Lamellariidae

- Lamellaria sharonae*

## Naticidae

- Neverita reclusiana*
- Sinum* sp.

## Vitrinellidae

- Vitrinella oldroydi*

10

## IAARBOES ENVIRONMENTAL PROJECTS

## BENTHIC DATA

## STATION MDR 10

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## MOLLUSCA (cont.)

## Gastropoda--Prosobranchia (cont.)

Neogastropoda					
Columbellidae					
<i>Mitrella carinata</i>					
<i>Mitrella</i> sp.					
Muricidae					
<i>Pteropurpura festiva</i>					
Nassariidae					
<i>Nassarius mendicus</i>					
<i>Nassarius perpinguis</i>					
<i>Nassarius</i> sp.					
Olividae					
<i>Olivella bactica</i>					
Pyramidellidae					
<i>Turbanilla</i> sp.					
Turridae					
<i>Kurtziella plumbra</i>					
Pelecypoda, unid. (juv.)		90			
Cardiidae					
<i>Laevicardium substriatum</i>					
Cooperellidae					
<i>Cooperella subdiaphana</i>		10			
Donacidae					
<i>Donax gouldii</i>					
Erycinidae					
<i>Lasaea subviridis</i>					
Hiatellidae					
<i>Hiatella arctica</i>					
Leptonidae					
<i>"Lepton meroeum"</i>					
Lucinidae					
<i>Parvilucina tenuisculpta</i>					
(= <i>Parvilucina</i> sp.)					
Lyonsiidae					
<i>Lyonsia californica</i>					
Mactridae, unid. (juv.)					
<i>Mactra californica</i>					
<i>Mactra</i> sp.					
<i>Spisula catilliformis</i>					
<i>Spisula</i> sp.					
<i>Tresus nuttalli</i>					
Montacutidae					
<i>Orobitella</i> sp.					
<i>Mysella pedroana</i>					
<i>Mysella</i> sp.					
Myidae					
<i>Cryptomya californica</i>					
Mytilidae, unid. (juv.)					
<i>Amygdalum</i> sp.					
<i>Modiolus</i> sp.					
<i>Mytilus edulis</i>		10			
Ostreidae					
<i>Ostrea lurida</i>					
Pectinidae					
<i>Leptopecten latiauratus</i>					

## HARBORS ENVIRONMENTAL PROJECTS

STATION MDR 10

## BENTHIC DATA

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## MOLLUSCA (cont.)

## Pelecypoda (cont.)

## Petricolidae

*Petricola tellimyalis**Petricola sp.*

## Semelidae

*Cumingia californica**Theora lubrica*

20 180 20

## Solecurtidae

*Tagelus subteres*

## Solenidae

*Ensis myrae**Siliqua lucida**Solen sp. (juv.)*

## Tellinidae

*Leporimetis obesa**Macoma acolasta**Macoma carlottensis**Macoma nasuta**Macoma sp. (juv.)*

150 50 10 60

*Tellina modesta**Tellina sp. (juv.)*

## Thyasiridae

*Axinopsida serricata**Thyasira flexuosa*

## Veneridae

*Chione ?undatella**Chione sp. (juv.)**Prototthaca staminea**Prototthaca sp.*

10 200 60 10 70

*Saxidomus nuttalli**Saxidomus sp. (juv.)*

## Polyplacophora, unid.

## NEMERTEA, unid.

10 10 20

## PHORONIDA, unid.

*Phoronis pallida**Phoronis sp.**Phoronopsis sp.*

## PLATYHELMINTHES

## Polycladida, unid.

20

## PROTOZOA

## Foraminifera

*"Rosalina-like" forams*

## SIPUNCULIDA, unid.

HARBORS ENVIRONMENTAL PROJECTS  
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ANNELIDA

OLIGOCHAETA, unid.					
Tubificidae	160		30	10	90
<i>Peloscolex gabriellae</i>					
POLYCHAETA					
Ampharetidae					
<i>Ampharete labrops</i>					
<i>Amphicteis scaphobranchiata</i>					
<i>Melinna oculata</i>					
Arabellidae, unid. (juv.)					
Capitellidae					
<i>Capitella capitata</i>	50	30	60	10	740
<i>Mediomastus acutus</i>					
<i>Mediomastus californiensis</i>	1000		220	380	
(= <i>Capitita ambiseta</i> )					
<i>Notomastus tenuis</i>					10
Chaetopteridae, unid. (frag.)					
<i>Spiochaetopterus costarum</i>					
Chrysopetalidae					
<i>Chrysopetalum occidentale</i>					
<i>Palcanotus bellis</i>					
Cirratulidae, unid.					
<i>Caulieriella alata</i>					
<i>Caulieriella bioculata</i>					
<i>Caulieriella hamata</i>					
<i>Caulieriella</i> sp.					
<i>Chaetoneone corona</i>	250	10	60	20	80
<i>Chaetoneone setosa</i>					
<i>Chaetoneone</i> sp.					
<i>Cirratulus cirratus</i>					
<i>Cirriformia luxuriosa</i>	20				
<i>Cirriformia</i> sp (juv.)					
<i>Tharyx nr. tesselata</i>					
<i>Tharyx</i> spp.	30		10	70	40
Cossuridae					
<i>Cossura candida</i>					
<i>Cossura pygodactylata</i>	20		30		
Ctenodrilidae					
<i>Ctenodrilus serratus</i>					
Dorvilleidae, unid.					
<i>Ophryotrocha puerilis</i>					
<i>Protodorvillea gracilis</i>					
<i>Schistomerengos longicornis</i>	50	80			
Flabelligeridae, unid.					
<i>Pherusa capulata</i>					
<i>Pherusa</i> sp.					
Glyceridae					
<i>Glycera americana</i>			10		
<i>Glycera capitata</i>					
<i>Glycera convoluta</i>					
<i>Glycera rouxi</i>					
<i>Glycera</i> sp. (juv.)					10

## HARBORS ENVIRONMENTAL PROJECTS

## BENTHIC DATA

## STATION MDR

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## POLYCHAETA (cont.)

*Goniadidae*, unid. (juv.)

*Glycindis armigera*

*Goniada brunnea*

*Goniada littorea*

*Goniada sp.*

*Hesionidae*, unid.

*Hesionidae*, new genus

*Cyptis brevipalpa*

*Cyptis brunnea*

*Ophiodromus pugettensis*

*Lumbrineridae*, unid.

*Lumbrineris ?crassidentata*

*Lumbrineris erecta*

*Lumbrineris ?tetaura*

*Lumbrineris spp.*

150

10

130

130

*Magelonidae*

*Magelona sacculata*

*Maldanidae*, unid. (frag.)

*Asychis sp.*

*Axiothella sp.*

*Praxillella affinis pacifica*

*Praxillella sp.*

*Nephtyidae*, unid.

*Nephtys caecoides*

*Nephtys californiensis*

*Nephtys cornuta franciscana*

20

90

*Nephtys ferruginea*

*Nereidae*, unid. (juv.)

*Neanthes arenaceodentata*

*Nereis latescens*

*Nereis procera*

*Nereis sp.* (juv.)

?*Perinereis monterea*

*Platynereis bicanaliculata*

*Onuphidae*, unid. (juv.)

*Diopatra ornata*

*Diopatra splendidissima*

*Diopatra sp.* (juv.)

10

*Opheliidae*

*Armandia bioculata*

*Polyopthalmus pictus*

*Orbiniidae*

*Haploscoloplos elongatus*

170

30

180

*Naineris dendritica*

*Scoloplos acmeceps*

*Oweniidae*

*Owenia collaris*

*Paraonidae*

*Acesta catherinae*

*Acesta horikoshii*

*Paraonella platybranchia*

(=*Paraonides platybranchia*)

HARBORS ENVIRONMENTAL PROJECTS  
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## POLYCHAETA (cont.)

## Pectinariidae

*Pectinaria californiensis*  
(=*P. c. newportensis*)

## Phyllodocidae, unid.

*Anaitides nr. papilloea*  
*Anaitides sp.* (juv.)

*Eteone californica*

*Eteone dilatae*

*Eteone sp.*

*Eulalia aviculifera*

*Eulalia ?myriacyclum*

*Eulalia quadrioculata*

*Eulalia sp.* (juv.)

*Eumida bifoliata*

*Eumida sanguinea*

?*Genetyllis castanea*

*Hesionura coineaui diffcilis*

*Phyllodoce sp.*

## Pilargidae

*Ancistrosyllis hamata*

*Sigambra tentaculata*

## Polynoidae, unid. (frag.)

*Halosydna johnsoni*

*Halosydna sp.*

*Harmothoe ?crassicirrata*

*Harmothoe hirsuta*

*Harmothoe imbricata*

*Harmothoe priops*

*Harmothoe scriptoria*

*Harmothoe sp.*

*Lepidorotus ?squamus*

## Sabellariidae

*Sabellaria cementarium*

## Sabellidae, unid.

*Chone ecaudata*

*Chone sp.*

*Euchone limnicola*

*Megaiorma pigmentum*

*Mytilicola ?infundibulum*

?*Potamilla sp.*

## Scalabregmidae

*Scalabregma inflatum*

## Serpulidae

*Eupomatus gracilis*

*Hydrodides pacifica*

## Sigalionidae

*Pholoe glabra*

*Sthenelanella uniformis*

*Sthenelais verruculosa*

## Spionidae, unid.

*Boccardia sp.*

*Boccardiella hamata*  
(=*Boccardia hamata*)

*Lacrice cirrata*

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BENTHIC DATA

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## POLYCHAETA (cont.)

## Spionidae, unid. (cont.)

*Parapriionospio pinnata**Polydora ligni**Polydora socialis**Polydora* sp.*Prionospio cirrifera**Prionospio heterobranchia*  
(=*P. h. newportensis*)*Prionospio pygmaeus**Prionospio* sp.*Pseudopolydora paucibranchiata**Rhynchospio ?arenicola**Rhynchospio* sp.*Scolelepis acuta*  
(=*Nerinides acuta*)*Spio ?filicornis**Spiro maculata*  
(=*Nerinides maculata*)*Spiophanes missionensis**Streblospio benedicti*

## Spirorbidae

*Janua brasiliensis**Pileolaria pseudomilitaris*

## Syllidae, unid.

*Autolitus* sp.*Brania* sp.*Eusyllis* sp.*Exogone genmifera**Exogone lourei**Exogone verugera**Exogone* sp.*Odontosyllis phosphorea**Sphaerosyllis californiensis**Sphaerosyllis* sp.*Syllides* sp.*?Syllis* sp.*Typosyllis ?hyalina**Typosyllis* sp.

## Terebellidae, unid.

*Amaeana occidentalis**Pista fasciata**Pista ?disjuncta**Pista* sp. (juv.)*Streblosoma crassibranchia*

10

## ARTHROPODA--CRUSTACEA

## Amphipoda

*Caprellidea*, unid.*Gammaridea*, unid.

## Copepoda

*Calanoida*, unid.*Cyclopoida*, unid.*Clausidium vancouverense**Harpacticoida*, unid.

20

20

## HARBORS ENVIRONMENTAL PROJECTS

## BENTHIC DATA

## ARTHROPODA CRUSTACEA (cont.)

## Cumacea, unid.

*Cyclaspis* sp.*Diastylis* sp.*Diastylopsis tenuis**Oxyurostylus pacifica*

## Decapoda

*Decapod zoea larvae*

10

## Anomura

## Paguridae

*Pagurus* sp.

## Erachyura

## Canceridae

*Cancer anthonyi**Cancer gracilis**Cancer* sp. (juv.)

## Grapsidae

*Hemigrapsus oregonensis**Hemigrapsus* sp. (juv.)

## Majidae

*Pyromaria tuberculata*

## Pinnotheridae, unid.

*Opisthopus transversus**Pinnixa franciscana**Pinnixa* sp.*Scleroplax granulata*

## Caridea

## Alpheidae, unid.

*Alpheus californiensis**Alpheus equidactylus**Betarus* sp. (frag.)

## Palaemonidae

*Palaemonella holmesi*

## Macrura

## Callianassidea

*Callianassa* sp.

10

*Upogebia* sp.

## Isopoda, unid.

*Edotea* sp.*Limnoria* sp.*Munna* sp.

## Mysidacea, unid.

40

## Nebaliacea, unid.

## Ostracoda, unid.

*Cylindroleberidinae*, unid.*Philomedes* sp.*Rutiderma rostrata*

## Tanaidacea, unid.

*Anatanais normani**Leptocheilia* sp.

## Thoracica

*Balanus pacificus*

## HARBORS ENVIRONMENTAL PROJECTS

## BENTHIC DATA

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## ARTHROPODA CRUSTACEA (cont.)

## Decapoda (cont.)

## Thoracica (cont.)

*Balanus tintinnabulum californicus**Balanus trigonus**Balanus sp.*

## ARTHROPODA--INSECTA

## Chironomidae, larvae

*Paraclunio alaskensis* (larvae)

## ARTHROPODA--PYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis**Pallenidae, unid.**Tantystylum intermedium*

## ASCHELMINTHES

*Nematoda, unid.*

## BRACHIOPODA

*Glottidia albida*

## BRYOZOA (=ECTOPROCTA)

*Bowerbankia gracilis**Bugula neritina**Bugula stolonifera**(=Bugula californica)**Celleporaria brunnea**Cryptosula pallasiana**Schizoporella unicornis**Watersipora arcuata**Zoobotryon verticillatum*

## CHORDATA

## Cephalochordata

*Branchiostoma californiense*

## Osteichthys

## Gobiesocidae

*Gobiesox rhessodon*

## Gobieidae, unid.

## Gobieidae, larvae

*Clevelandia ios**Ilypnus gilberti**Lepidogobius lepidus*

10

10

## Urochordata

## Ascidacea, unid.

*Botryllus sp.**Ciona intestinalis**Mogula pugetensis**Styela clava**Styela plicata*

## CNIDARIA (=COELENTERATA)

## Anthozoa

## Actinaria, unid.

*Diadumene sp.**Edwardsia californica**Edwardsia nr. sippunculoides**Edwardsia sp. (juv.)*

## HARBORS ENVIRONMENTAL PROJECTS

## BENTHIC DATA

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STATION MDR 11

## CNIDARIA (Cont.)

## Anthozoa

*Actinaria*, unid.*Edwardsiidae*, unid.*Mesacmaea* sp. A*Ceriantharia*, unid.

## Hydrozoa--Hydroida

*Aglaophenia diversidentata**Aglaophenia* nr. *pluma**Corymorphia aurata*

## ECHINODERMATA

*Echinoidea*, unid. (juv.)*Strongylocentrotus purpuratus**Holothuroidea*, unid.*Ophiuroidea*, unid. (juv.)

## ECHURA

*Urechis caupo*

## HEMICHORDATA

*Enteropneusta*, unid.

## MOLLUSCA--Gastropoda, unid. (juv.)

*Gastropoda*--Ophisthobranchia*Cephalaspidea*, unid.*Acteocina harpa**Acteocina inculta*

380	1210	660	80	1150
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*Aglaja* sp.*Bulla gouldiana**Rictaxis punctocaulatus**Sulcoretusa* sp.*Woodbridgea* sp.

20

*Nudibranchia*, unid.*Acanthodoris* sp.*Trinchesia* sp.*Pyramidellida**Odostomia* sp.

## Gastropoda--Prosobranchia

*Mesogastropoda**Caecidae**Caecum* sp.*Furtulum* sp.*?Micranellium* sp.*Calyptaeidae**Crepidula dorsata*(*=Crepidatella lingulata*)*Crepidula onyx**Crepidula preferrans**Crepidula* sp. (juv.)*Lamellariidae**Lamellaria sharonae**Naticidae**Neverita reclusiana**Sinum* sp.*Vitrinellidae**Vitrinella oldroydi*

## HARBORS ENVIRONMENTAL PROJECTS

## BENTHIC DATA

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## MOLLUSCA (cont.)

Gastropoda --Prosobranchia (cont.)

Neogastropoda

Conidae

*Murex la carinata*

*Murex lla sp.*

Muricidae

*Pteropurpura festiva*

Nassariidae

*Nassarius mendicus*

*Nassarius perpinguis*

*Nassarius sp.*

Olividae

*Olivella baetica*

Pyramidellidae

*Turbanilla sp.*

Turridae

*Kurtziella plumbea*

Pelecypoda, unid. (juv.)

Cardiidae

*Laevicardium substriatum*

20

Cooperellidae

*Cooperella subdiaphana*

Donacidae

*Donax gouldii*

Erycinidae

*Lasaea subviridis*

Hiatellidae

*Hiatella arctica*

Leptonidae

"*Lepton meroicum*"

Lucinidae

*Parvilucina tenuisculpta*

(=*Parvilucina sp.*)

Lyonsiidae

*Lyonsia californica*

Mactridae, unid. (juv.)

*Mactra californica*

*Mactra sp.*

*Spisula catilliformis*

*Spisula sp.*

*Tresus nuttalli*

Montacutidae

*Orobitella sp.*

*Mysella pedroana*

*Mysella sp.*

Myidae

*Cryptomya californica*

Mytilidae, unid. (juv.)

*Amygdalum sp.*

*Modiolus sp.*

*Mytilus edulis*

Ostreidae

*Ostrea lurida*

Pectinidae

*Leptopecten latiauratus*

10

HARBORS ENVIRONMENTAL PROJECTS BENTHIC DATA	17 Mar 1978	16 Jun 1978	21 Sep 1978	15 Dec 1978	STATION MDR 11 13 Apr 1979
' MOLLUSCA (cont.)					
Pelecypoda (cont.)					
Petricolidae					
<i>Petricola tellimyalis</i>					
<i>Petricola</i> sp.					
Semelidae					
<i>Cumingia californica</i>					
<i>Theora lubrica</i>					10
Solecurtidae					
<i>Tagelus subteres</i>					
Solenidae					
<i>Ensis myrae</i>					
<i>Siliqua lucida</i>					
<i>Solen</i> sp. (juv.)					10
Tellinidae					
<i>Leporimetis obesa</i>					
<i>Macoma acolasta</i>					
<i>Macoma carlottensis</i>					
<i>Macoma nasuta</i>				20	
<i>Macoma</i> sp. (juv.)					20
<i>Tellina modesta</i>					
<i>Tellina</i> sp. (juv.)					
Thyasiridae					
<i>Achinopisda serricata</i>					
<i>Thyasira flexuosa</i>					
Veneridae					
<i>Chione ?undatella</i>					
<i>Chione</i> sp. (juv.)					
<i>Protothaca staminea</i>					
<i>Protothaca</i> sp.					
<i>Saxidomus nuttalli</i>					
<i>Saxidomus</i> sp. (juv.)					
Polyplacophora, unid.					
NEMERTEA, unid.	20			10	30
PHORONIDA, unid.					
<i>Phoronis pallida</i>					
<i>Phoronis</i> sp.					
<i>Phoronopsis</i> sp.					
PLATYHELMINTHES					
<i>Polycladida</i> , unid.					
PROTOZOA					
Foraminifera					
"Rosalina-like" forams					
SIPUNCULIDA, unid.					

**SETTLING RACK**

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SETTLING RACK DATA

1976-1977

STATION MDR-1

Aug Oct Dec Feb Apr Jun

## ANNELIDA POLYCHAETA

## Capitellidae

*Capitella capitata*

## Chaetopteridae

*Chaetopterus variopedatus**Phyllochaetopterus limicola*

## Chrysopetalidae

*Paleonotus bellis*

2

## Cirratulidae

*Caulieriella alata**Caulieriella hamata**Chaetozone corona**Tharyx* sp.

## Cossuriidae

*Cossura candida*

## Ctenodrilidae

*Ctenodrilus serratus*

## Dorvilleidae

*Ophryotrocha puerilis**Schistomerings longicornis*

## Hesionidae

*Gyptis brevipalpa**Ophiodromus pugettensis*

4

## Nereidae

*Neanthes arenaceodentata**Platynereis bicanaliculata*

80 93

4

## Opheliidae

*Armandia bioculata*

216

*Polyopthalmus pictus*

538

56

## Pectinariidae

*Pectinaria* sp.

## Phyllodocidae

*Anaitides williamsi**Eulalia aviculifera**Eulalia* sp.

3

*Eunida sanguinea*

8 5

## Polynoidae

*Halosydna brevisetosa*

8 8

*Harmothoe imbricata*

4

## Sabellariidae

*Sabellaria alcocki*

3

*Sabellaria* sp.

## Sabellidae

*Sabella* sp.

4

## Serpulidae

*Eupomatus gracilis*

5 16 184

*Hydroides pacificus*

## Spionidae

*Polydora ligni*

8 4 12

*Polydora limicola*

7 4

*Polydora socialis*

4

*Polydora* sp.*Prionospio cirrifera*

## SETTLING RACK DATA

1976-1977

STATION MDR-1

Aug Oct Dec Feb Apr Jun

POLYCHAETA (cont.)						
<i>Spionidae</i> (cont.)						
<i>Prionospio heterobranchia</i>						
<i>newportensis</i>						
<i>Prionospio</i> sp.						
<i>Pseudopolydora paucibranchiata</i>						
<i>Spiophanes</i> sp.						
<i>Streblospio benedicti</i>						
<i>Spirorbidae</i> , unid.						4
<i>Syllidae</i>						
<i>Autolytus</i> sp.			4		1	
<i>Brania</i> sp.						
<i>Eusyllis assimilis</i>						
<i>Eusyllis</i> sp.						
<i>Exogone lourei</i>						
<i>Exogone</i> sp.						
<i>Typosyllis pulchra</i>						
<i>Typosyllis</i> sp.						
<i>ANNELIDA OLIGOCHAETA</i>						
<i>ARTHROPODA CRUSTACEA</i>						
<i>Amphipoda</i>						
<i>Caprellidea</i>						36 272
<i>Aeginellidae</i>						
<i>Mayerella banksia</i>						
<i>Caprellidae</i>						
<i>Caprella californica</i>			4		132	
<i>Caprella equilibra</i>					1	40
<i>Caprella verrucosa</i>						
<i>Caprella</i> sp.					44	84
<i>Gammaridea</i> , unid.						
<i>Aoridae</i>						
<i>Aoridaes columbiae</i>						
<i>Amphilochidae</i>						
<i>Gitanopsis vilordes</i>						
<i>Ampithoidae</i>						
<i>Amphithoe plumulosa</i>						
<i>Amphithoe</i> sp.						
<i>Bateidae</i>						
<i>Bata transversa</i>						
<i>Corophiidae</i>						
<i>Corophium acherusicum</i>			12		2	216
<i>Eriechtonius brasiliensis</i>				24		68
<i>Eriechtonius hunteri</i>						
<i>Eriechtonius</i> sp.						
<i>Eusiridae</i>						
<i>Pontogenia rostrata</i>						
<i>Gammaridae</i>					100	
<i>Elasmopus rapax</i>						
<i>Maera simile</i>						
<i>Melita sulca</i>						
<i>Hyalidae</i>						
<i>Hyale frequens</i>						
<i>Hyale nigra</i>						

## SETTLING RACK DATA

1976-1977

STATION MDR-1

	Aug	Oct	Dec	Feb	Apr	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
<b>Gammaridea (cont.)</b>						
<i>Isaeidae</i>						
<i>Gammaropsis thompsoni</i>						
<i>Ischyroceridae</i>						
<i>Jassa falcata</i>				272	4445	6528
<i>Microjassa litotes</i>						11208
<i>Leucothoidae</i>						
<i>Leucothoe alata</i>						
<i>Podoceridae</i>						
<i>Podocerus brasiliensis</i>					12	
<i>Podocerus cristatus</i>				12		16
<i>Podocerus sp.</i>						52
<i>Stenothoidae</i>						
<i>Stenothoe valida</i>					2	
<i>Stenothoe sp.</i>				4		16
<i>Copepoda</i>				480	304	124
<i>Decapoda, unid.</i>						132
<i>Decapod larvae</i>						
<i>Brachyura (crabs)</i>						
<i>Brachyura larvae (megalops)</i>						8
<i>Grapsidae</i>						
<i>Hemigrapsus oregonensis</i>						
<i>Pachygrapsus crassipes</i>						
<i>Majidae</i>						
<i>Loxorhynchus sp.</i>						
<i>Caridea (shrimp)</i>						
<i>Lysmata californica</i>						
<i>Isopoda</i>						
<i>Arthuridae</i>						
<i>Paranthura elegans</i>						
<i>Ianiridae, unid.</i>				4		
<i>Ianiropsis sp.</i>						4
<i>Idoteidae, unid.</i>						
<i>Jaeropsidae</i>						
<i>Jaeropsis sp.</i>						
<i>Limnoridae</i>						
<i>Limnoria tripunctata</i>						
<i>Munnidae</i>						
<i>Munna sp.</i>						
<i>Sphaeromatidae</i>						
<i>Paracerceis sculpta</i>						
<i>Mysidacea (Mysids)</i>						
<i>Ostracoda</i>						
<i>Tanaidacea</i>						
<i>Anatanais normani</i>				4	1	28
<i>Leptochelia dubia</i>						
<i>Leptochelia sp.</i>						
<i>Thoracica (Barnacles)</i>						
<i>Balanus amphitrite</i>						
<i>Balanus tintinnabulum</i>				4		
<i>Balanus sp.</i>						
<i>Chthamalus fissus</i>						
<i>Chthamalus sp.</i>					2	8

SETTLING RACK DATA	1976-1977	STATION MDR-1				
		Aug.	Oct	Dec	Feb	Apr
ARTHROPODA PYCNOGONIDA				4	1	
ASCHELMINTHES Nematoda				68	15	12
BRYOZOA (Counts = # of colonies)						176
Cheilostomata, unid.						
Bicellariellidae						
<i>Bugula neritina</i>						2
<i>Bugula stolonifera</i>						
(= <i>B. californica</i> )						
Celloporidae						
<i>Celloporaria brunnea</i>						
Cheiloporinidae						
<i>Cryptosula pallasiana</i>						1
<i>Watersipora arcuata</i>						
Membraniporidae						
<i>Membranipora isabelleana</i>					5	
(= <i>M. villosa</i> )						
<i>Membranipora membranacea</i>						
<i>Membranipora tenuis</i>						
<i>Membranipora tuberculata</i>				5		
Scrupariidae						
<i>Scruparia ambigua</i>						
Thalamoporellidae?						
<i>Thalamoporella californica</i>						1
Ctenostomata						
Vesiculariidae						
<i>Zoobotryon verticillatum</i>						
CHORDATA						
Asciidae						
Aplousobranchia						
<i>Diplosoma macdonaldi</i> (= <i>pisonii</i> )						
Phlebobranchia						
<i>Ciona intestinalis</i>						40
Stolidobranchia						
<i>Botryllus</i> sp.						
CNIDARIA						
Anthozoa (Sea anemones)						
Hydrozoa-hydroida						
Campanulariidae						
<i>Obelia</i> sp.				1.68g	0.01g	2.04g
Plumulariidae						
<i>Aglaophenia</i> sp.						
Tubulariidae						
<i>Tubularia</i> sp.						0.08g
ECHINODERMATA						
Echinoidea (Sea urchin)						
MOLLUSCA						
Gastropoda					3	12
Archaeogastropoda, unid.				4		
Acmaeidae (limpets)						
Atyidae						
<i>Haminoea</i> sp.					1	

SETTLING RACK DATA	1976-1977	Aug	Oct	Dec	Feb	Apr	Jun	STATION MDR-1
MOLLUSCA (cont.)								
Calyptidae								
<i>Crepidula onyx</i>								
<i>Crepidula</i> sp.								
Cephalaspidea, unid.								
Columbellidae								
<i>Mitrella carinata</i>							4	
Nudibranchia, unid.								
Scaphandridae								
<i>Acteocina harpa</i>								
<i>Acteocina</i> sp.								
Pelecypoda								
Hiatellidae								
<i>Hiatella arctica</i>								
Mytilidae								
<i>Mytilus edulis</i>								
Pectinidae								
<i>Leptopecten latiauratus</i>								
NEMERTEA								
PHORONIDA								
PLATYHELMINTHES								
Turbellaria								
Polycladida								
PORIFERA								
<i>Leucosolenia</i> sp.								
PROTOZOA								
Foraminifera								
PLANTS - Total wet weight all plants								
ALGAE, unid.								
CHLOROPHYCOPHYTA CHLOROPHYCEAE								
Uvales								
<i>Enteromorpha</i> sp.								
<i>Ulva</i> sp.								
PHAEOPHYCOPHYTA PHAEOPHYCEAE								
Ectocarpales- <i>Ectocarpus</i> sp.								
RHODOPHYCOPHYTA FLORIDEOPHYCEAE								
Ceramiales- <i>Polysiphonia</i> sp.								
		4	12	92	56			
		0.23g	0.36g	0.88g				
				0.20g				

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SETTLING RACK DATA

1976-1977

STATION MDR-3

Aug Oct Dec Feb Apr Jun

**ANNELEA POLYCHAETA****Capitellidae***Capitella capitata*

4

**Chaetopteridae***Chaetopterus variopedatus*

1

*Phyllochaetopterus limiculus***Chrysopetalidae***Paleonotus bellis*

1 1

**Cirratulidae***Caulieriella alata**Caulieriella hamata**Chaetozone corona**Tharyx* sp.**Cossuridae***Cossura candida***Ctenodrilidae***Ctenodrilus serratus*

9

**Dorvilleidae***Ophryotrocha puerilis**Schistomerengos longicornis***Hesionidae***Gyptis brevipalpa**Ophiodromus pugettensis***Nereidae***Nearithes arenaceodentata**Platyncreis bicaralliculata*

4 7 6

**Opheliidae***Armandia biniculata*

1

*Polyopthalmus pictus*

128 16 78 8 9

**Pectinariidae***Pectinaria* sp.**Phyllodocidae***Anaitides williamsi*

2

*Eulalia aviculifera**Eulalia* sp.*Eumida sanguinea*

1

**Polynoidae***Halosydna brevisetosa*

5 2

*Harmothoe imbricata*

3

**Sabellariidae***Sabellaria alcocki*

1

*Sabellaria* sp.

1

**Sabellidae***Sabella* sp.**Serpulidae***Eupomatus gracilis*

1

*Hydroides pacificus*

320 4 10 89

**Spionidae***Polydora ligni*

60 28

*Polydora limicola*

16

2

*Polydora socialis*

32 2

*Polydora* sp.

4

*Prionospio cirrifera*

SETTLING RACK DATA	1976-1977	STATION MDR-3					
		Aug	Oct	Dec	Feb	Apr	
<b>POLYCHAETA (cont.)</b>							
<b>Spionidae (cont.)</b>							
<i>Prionospio heterobranchia</i>							
<i>newportensis</i>							
<i>Prionospio</i> sp.							
<i>Pseudopolydora paucibranchiata</i>							
<i>Spiophanes</i> sp.							
<i>Streblospio benedicti</i>							
<i>Spirorbidae</i> , unid.				1	4	16	
<b>Syllidae</b>						22	
<i>Autolytus</i> sp.							
<i>Brania</i> sp.				2			
<i>Eucyllis assimilis</i>							
<i>Eusyllis</i> sp.							
<i>Exogone lourei</i>				2			
<i>Exogone</i> sp.					5		
<i>Typosyllis pulchra</i>							
<i>Typosyllis</i> sp.							
<b>ANNELIDA OLIGOCHAETA</b>							
<b>ARTHROPODA CRUSTACEA</b>							
<i>Amphipoda</i>							
<i>Caprellidea</i>							
<i>Aeginellidae</i>							
<i>Mayerella banksia</i>							
<i>Caprellidae</i>							
<i>Caprella californica</i>	64				18	68	
<i>Caprella equilibra</i>	288			1		48	
<i>Caprella verrucosa</i>							
<i>Caprella</i> sp.	32						
<i>Gammaridea</i> , unid.							
<i>Aoridae</i>						2	
<i>Aorides columbiae</i>							
<i>Amphilochidae</i>							
<i>Gitanopsis vilordes</i>							
<i>Ampithoidae</i>							
<i>Amphithoe plumulosa</i>						1	
<i>Amphithoe</i> sp.							
<i>Bateidae</i>							
<i>Bata transversa</i>							
<i>Corophiidae</i>							
<i>Corophium acherusicum</i>	160	56	26	30	488		
<i>Erithonius brasiliensis</i>	96	584	61	73	1449		
<i>Erithonius hunteri</i>	96						
<i>Erithonius</i> sp.							
<i>Eusiridae</i>							
<i>Pontogenia rostrata</i>							
<i>Gammaridae</i>							
<i>Elasmopus rapax</i>		324				365	
<i>Maera simile</i>	32	206	29	12	184		
<i>Melita sulca</i>							
<i>Hyalidae</i>							
<i>Hyale frequens</i>							
<i>Hyale nigra</i>							

## SETTLING RACK DATA

1976-1977

STATION MDR-3

	Aug	Oct	Dec	Feb	Apr	Jun
ARTHROPODA CRUSTACEA (cont.)						
Gammaridea (cont.)						
Isacidae						
<i>Gammaropsis thompsoni</i>						
Ischyroceridae						
<i>Jassa falcata</i>	256	28	102	279	138	
<i>Microjassa litotes</i>						
Leucothoidae						
<i>Leucothoe alata</i>						
Podoceridae						
<i>Podocerus brasiliensis</i>						
<i>Podocerus cristatus</i>	96	392	49	47		
<i>Podocerus</i> sp.						
Stenothoidae						
<i>Stenothoe valida</i>		68	15	6	492	
<i>Stenothoe</i> sp.	448					
Copepoda		20	43	21	152	
Decapoda, unid.						
Decapod larvae				2		
Brachyura (crabs)						
Brachyura larvae (megalops)						
Grapsidae						
<i>Hemigrapsus oregonensis</i>						
<i>Pachygrapsus crassipes</i>						
Majidae						
<i>Loxorhynchus</i> sp.						
Caridea (shrimp)			4			1
<i>Lysmata californica</i>						
Isopoda						
Arthuridae						
<i>Paranthura elegans</i>						
Ianiidae, unid.						
<i>Ianiropsis</i> sp.						
Idoteidae, unid.						
Jaeropsidae						
<i>Jacropsis</i> sp.						
Limnoridae						
<i>Limnoria tripunctata</i>				1		
Munnidae						
<i>Munna</i> sp.						
Sphaeromatidae					2	1
<i>Paracerceis sculpta</i>			120	19	1	16
Mysidacea (Mysids)						
Ostracoda						
Tanaidacea						3
<i>Anatanais normani</i>				2	2	16
<i>Leptochelia dubia</i>						
<i>Leptochelia</i> sp.						
Thoracica (Barnacles)						7
<i>Balanus amphitrite</i>				4		
<i>Balanus tintinnabulum</i>						
<i>Balanus</i> sp.					2	
<i>Chthamalus fissus</i>						
<i>Chthamalus</i> sp.					2	

## SETTLING RACK DATA

1976-1977

STATION MDR-3

Aug. Oct Dec Feb Apr Jun

ARTHROPODA PYCNOGONIDA						
ASCHELMINTHES Nematoda						
BRYOZOA (Counts=# of colonies)						
Cheilostomata, unid.						
Bicellariellidae						
<i>Bugula neritina</i>		5			5	2
<i>Bugula stolonifera</i>		5				
(=B. californica)						
Celleporidae						
<i>Celleporaria brunnea</i>						1
Cheiloporinidae						
<i>Cryptosula pallasiana</i>						1
<i>Watersipora arcuata</i>						
Membraniporidae						
<i>Membranipora isabelleana</i>						
(=M. villosa)						
<i>Membranipora membranacea</i>						
<i>Membranipora tenuis</i>						
<i>Membranipora tuberculata</i>						
Scrupariidae						
<i>Scruparia ambigua</i>						
Thalamoporellidae						
<i>Thalamoporella californica</i>						
Ctenostomata						
Vesiculariidae						
<i>Zoobotryon verticillatum</i>						
CHORDATA						
Ascidiae						
Aploousbranchia						
<i>Diplosoma macdonaldi</i> (=pizoni)	<0.32 g					0.19 g
Phlebobranchia						
<i>Ciona intestinalis</i>	416	24				249
Stolidobranchia						
<i>Botryllus</i> sp.	1.60 g		<0.01 g			0.26 g
CNIDARIA						
Anthozoa (Sea anemones)		0.04 g				
Hydrozoa-hydroida						
Campanulariidae						
<i>Obelia</i> sp.	<0.32 g	<0.04 g	0.01 g			0.21 g
Plumulariidae						
<i>Aglaophenia</i> sp.			<0.01 g			0.06 g
Tubulariidae						
<i>Tubularia</i> sp.			0.15 g			0.10 g
ECHINODERMATA						
Echinoidea (Sea urchin)						
MOLLUSCA						
Gastropoda				2	8	
Archaeogastropoda, unid.						
Acmaeidae (limpets)						
Atyidae						
<i>Haminaca</i> sp.						1

SETTLING RACK DATA	1976-1977			STATION MDR-3		
	Aug	Oct	Dec	Feb	Apr	Jun
<b>MOLLUSCA (cont.)</b>						
Calyptidae						
<i>Crepidula onyx</i>						
<i>Crepidula</i> sp.						
Cephalaspidea, unid.						
Columbellidae						
<i>Mitrella carinata</i>						
Nudibranchia, unid.					1	5
Scaphandridae						8
<i>Acteocina harpa</i>						
<i>Acteocina</i> sp.						
Pelecypoda				12	244	87
Hiatellidae						19
<i>Hiatella arctica</i>						
Mytilidae						
<i>Mytilus edulis</i>		64			58	189
Pectinidae						62
<i>Lepiopecten latiauratus</i>						
NEMERTEA						
PHORONIDA						
PLATYHELMINTHES						
Turbellaria						
<i>Polycladia</i>				8	2	1
PORIFERA						14
<i>Leucosolenia</i> sp.						
PROTOZOA						21
Foraminifera						
LANTS - Total wet weight all plants						0.23g
ALGAE, unid.						
CHLOROPHYCOPHYTA CHLOROPHYCEAE						
Uvales						
<i>Enteromorpha</i> sp.				≤0.04g		0.01g
<i>Ulva</i> sp.				≤0.04g		
PHAEOPHYCOPHYTA PHAEOPHYCEAE						
<i>Ectocarpales-Ectocarpus</i> sp.						
RHODOPHYCOPHYTA FLORIDEOPHYCEAE						
<i>Ceramiales-Polysiphonia</i> sp.						

	Aug	Oct	Dec	Feb	Apr	Jun
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**ANNELIDA POLYCHAETA****Capitellidae***Capitella capitata*

16 24

12

**Chaetopteridae***Chaetopterus variopedatus**Phyllochaetopterus limicola***Chrysopetalidae***Paleonotus bellis***Cirratulidae***Caulieriella alata**Caulieriella hamata**Chaetozone corona**Tharyx* sp.**Cossuridae***Cossura candida***Ctenodrilidae***Ctenodrilus serratus*

2 240

**Dorvilleidae***Ophryotrocha puerilis*

6

*Schistomerings longicornis***Hesionidae***Gyptis brevipalpa**Ophiodromus pugettensis***Nereidae***Neanthes arenaceodentata*

4

*Platynereis bicanaliculata***Opheliidae***Armandia bioculata*

1 6

*Polyopthalmus pictus*

64 32

1 30

**Pectinariidae***Pectinaria* sp.**Phyllodocidae***Anaitides williamsi*

1

*Eulalia aviculifera**Eulalia* sp.*Eumida sanguinea*

1

**Polynoidae***Halosydna brevisetosa*

1

*Harmothoe imbricata***Sabellariidae***Sabellaria alcocki*

20

*Sabellaria* sp.**Sabellidae***Sabella* sp.**Serpulidae***Eupomatus gracilis*

32 76

*Hydroïdes pacificus***Spionidae***Polydora ligni*

192

*Polydora limicola*

16 64

4

*Polydora socialis*

6

*Polydora* sp.

21

*Prionospio cirrifera*

## SETTLING RACK DATA

1976-1977

STATION MDR-4

	Aug	Oct	Dec	Feb	Apr	Jun
POLYCHAETA (cont.)						
Spionidae (cont.)						
<i>Prionospio heterobranchia</i>						
<i>newportensis</i>						
<i>Prionospio</i> sp.						
<i>Pseudopolydora paucibranchiata</i>						
<i>Spiophanes</i> sp.						
<i>Streblospio benedicti</i>						
<i>Spirorbidae</i> , unid.	16	16		205	164	
Syllidae			32			46
<i>Autolytus</i> sp.						
<i>Brania</i> sp.						
<i>Eusyllis assimilis</i>						
<i>Eusyllis</i> sp.						
<i>Exogone lourei</i>	16					
<i>Excogone</i> sp.					13	
<i>Typosyllis pulchra</i>						
<i>Typosyllis</i> sp.						
ANNELEIDA OLIGOCHAETA						
ARTHROPODA CRUSTACEA					192	
Amphipoda						
Caprellidea				10	364	
Aeginellidae						
<i>Mayerella banksia</i>						
Caprellidae						
<i>Caprella californica</i>			24		34	646
<i>Caprella equilibra</i>	32		24			248
<i>Caprella verrucosa</i>						
<i>Caprella</i> sp.				80		
Gammaridea, unid.						
Aoridae						
<i>Aorides columbiae</i>						
Amphilochidae						
<i>Gitanopsis vilordes</i>						
Ampithoidae						
<i>Amphithoe plumulosa</i>						
<i>Amphithoe</i> sp.						
Bateidae						
<i>Bata transversa</i>						
Corophiidae						
<i>Corophium acherusicum</i>			32	104	24	436
<i>Eriichthius brasiliensis</i>			176	224	190	1064
<i>Eriichthius hunteri</i>						
<i>Eriichthius</i> sp.						
Eusiridae						
<i>Pontogenia rostrata</i>						
Gammaridae						
<i>Elasmopus rapax</i>			16	48	25	26
<i>Maera simile</i>						
<i>Melita sulca</i>						
Hyalidae						
<i>Hyale frequens</i>						
<i>Hyale nigra</i>						

## SETTLING RACK DATA

1976-1977

STATION MDR-4

	Aug	Oct	Dec	Feb	Apr	Jun
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## ARTHROPODA CRUSTACEA (cont.)

Gammaridea (cont.)						
Isaeidae						
<i>Gammaropsis thompsoni</i>					10	
Ischyroceridae						
<i>Jassa falcata</i>	16	104			264	64
<i>Microjassa litotae</i>						
Leucothoidae						
<i>Leucothoe alata</i>						
Podoceridae						
<i>Podocerus brasiliensis</i>						
<i>Podocerus cristatus</i>	128	384			65	1382
<i>Podocerus</i> sp.						
Stenothoidae						
<i>Stenothoe valida</i>		48			1	310
<i>Stenothoe</i> sp.	16					
Copepoda						
Decapoda, unid.	32	24			26	246
Decapod larvae						
Brachyura (crabs)						
Brachyura larvae (megalops)						
Grapidae						
<i>Hemigrapsus oregonensis</i>						2
<i>Pachygrapsus crassipes</i>						
Majidae						
<i>Loxorhynchus</i> sp.						
Caridea (shrimp)						
<i>Lysmata californica</i>						
Isopoda						
Arthuridae						
<i>Paranthura elegans</i>						
Ianiridae, unid.						
<i>Ianiropsis</i> sp.						
Idoteidae, unid.						
Jaeropsidae						
<i>Jaeropsis</i> sp.						
Limnoridae						
<i>Limnoria tripunctata</i>						
Munnidae						
<i>Munna</i> sp.						
Sphaeromatidae						
<i>Paracerceis sculpta</i>		24			3	
Mysidacea (Mysids)						
Ostracoda						8
Tanaidacea						
<i>Anatanais normani</i>						
<i>Leptochelia dubia</i>					1	114
<i>Leptochelia</i> sp.						
Thoracica (Barnacles)						
<i>Balanus amphitrite</i>						2
<i>Balanus tintinnabulum</i>						
<i>Balanus</i> sp.						
<i>Chthamalus fissus</i>						
<i>Chthamalus</i> sp.					1	

## SETTLING RACK DATA

1976-1977

STATION MDR-4

Aug Oct Dec Feb Apr Jun

<b>ARTHROPODA PYCNOGONIDA</b>						
<b>ASCHILOMINTHES Nematoda</b>						
<b>BRYOZOA (Counts = # of colonies)</b>						162
Cheilostomata, unid.						
Bicellariellidae						
<i>Bugula neritina</i>			5			57
<i>Bugula stolonifera</i>						7
(= <i>B. californica</i> )						
Celleporidae						6
<i>Celleporaria brunnea</i>						
Cheiloporinidae						
<i>Cryptosula pallasiana</i>						22
<i>Watersipora arcuata</i>						4
Membraniporidae						
<i>Membranipora isabelleana</i>						
(= <i>M. villosa</i> )						
<i>Membranipora membranacea</i>						
<i>Membranipora tenuis</i>						
<i>Membranipora tuberculata</i>						
Schizoporellidae						
<i>Schizoporella unicornis</i>						3
Scrupariidae						
<i>Scruparia ambigua</i>						
Thalamoporellidae?						
<i>Thalamoporella californica</i>						
Ctenostomata						
Vesiculariidae						
<i>Zoobotryon verticillatum</i>						
<b>CHORDATA</b>						
Asciaceae						
Aplousobranchia						
<i>Diplosoma macdonaldi</i> (= <i>pizoni</i> )	0.16g	<0.08g				0.44g
Phlebobranchia						
<i>Ciona intestinalis</i>	608	208				12 502
Stolidobranchia						
<i>Botryllus</i> sp.	0.64g	0.08g				0.04g 1.12g
<b>CNIDARIA</b>						
Anthozoa (Sea anemones)						
Hydrozoa-hydroida						
Campanulariidae						
<i>Obelia</i> sp.	<0.16g					<0.01g 0.04g
Plumulariidae						
<i>Aglaophenia</i> sp.	0.32g	<0.08g				<0.01g
Tubulariidae						
<i>Tubularia</i> sp.	0.96g					0.60g
<b>ECHINODERMATA</b>						
Echinoidea (Sea urchin)						
<b>MOLLUSCA</b>						
Gastropoda						2
Archaeogastropoda, unid.						
Acmaeidae (limpets)						
Atyidae						
<i>Haminsea</i> sp.						

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## SETTLING RACK DATA

1976-1977

STATION MDR-4

Aug Oct Dec Feb Apr Jun

<u>MOLLUSCA (cont.)</u>						
Calyptaeidae						
<i>Crepidula onyx</i>						
<i>Crepidula</i> sp.						
Cephalaspidea, unid.						
Columbellidae						
<i>Mitrella carinata</i>						
Nudibranchia, unid.	16	24				2
Scaphandridae						
<i>Acteocina harpa</i>						
<i>Acteocina</i> sp.						
Pelecypoda		16			61	44
Hiatellidae						
<i>Hiatella arctica</i>					1	
Mytilidae						
<i>Mytilus edulis</i>		8		203	12	
Pectinidae						
<i>Leptopecten latiauratus</i>						
NEMERTEA						
PHORONIDA						
PLATYHELMINTHES						
Turbellaria						
<i>Polycladia</i>	16					2
PORIFERA						
<i>Leucosolenia</i> sp.						
PROTOZOA						
Foraminifera					5	
PLANTS - Total wet weight all plants						
ALGAE, unid.						
CHLOROPHYCOPHYTA CHLOROPHYCEAE						
Uvales						
<i>Enteromorpha</i> sp.						
<i>Ulva</i> sp.						
PHAEOPHYCOPHYTA PHAEOPHYCEAE						
Ectocarpales- <i>Ectocarpus</i> sp.						
RHODOPHYCOPHYTA FLORIDEOPHYCEAE						
Ceramiales- <i>Polysiphonia</i> sp.				0.10g		

SETTLING RACK DATA

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1976-1977

STATION MDR-6

	Aug	Oct	Dec	Feb	Apr	Jun
<b>ANNELIDA POLYCHAETA</b>						
<b>Capitellidae</b>						
<i>Capitella capitata</i>				2	4	2
<b>Chaetopteridae</b>						
<i>Chaetopterus variopedatus</i>						
<i>Phyllochaetopterus limicola</i>						
<b>Chrysopetalidae</b>						
<i>Paleonotus bellis</i>						
<b>Cirratulidae</b>						
<i>Caulieriella alata</i>						
<i>Caulieriella hamata</i>					4	
<i>Chaetozone corona</i>					4	1
<i>Tharyx</i> sp.						
<b>Cossuridae</b>						
<i>Cossura candida</i>						
<b>Ctenodrilidae</b>						
<i>Ctenodrilus serratus</i>					76	71
<b>Dorvilleidae</b>						
<i>Ophryotrocha puerilis</i>						
<i>Schistomerings longicornis</i>					4	1
<b>Hesionidae</b>						
<i>Gyptis brevipalpa</i>						
<i>Ophiodromus pugettensis</i>						
<b>Nereidae</b>						
<i>Neanthes arenaceodentata</i>						
<i>Platynereis bicanaliculata</i>						
<b>Opheliidae</b>						
<i>Armandia bioculata</i>						
<i>Polyopthalmus pictus</i>			16			
<b>Pectinariidae</b>						
<i>Pectinaria</i> sp.						
<b>Phyllodocidae</b>						
<i>Anaitides williamsi</i>						
<i>Eulalia aviculifera</i>						
<i>Eulalia</i> sp.						
<i>Eunida sanguinea</i>						
<b>Polynoidae</b>						
<i>Halosydna brevisetosa</i>						
<i>Harmothoe imbricata</i>						
<b>Sabellariidae</b>						
<i>Sabellaria alcocki</i>						
<i>Sabellaria</i> sp.						
<b>Sabellidae</b>					2	
<i>Sabella</i> sp.						
<b>Serpulidae</b>						
<i>Eupomatus gracilis</i>						
<i>Hydroides pacificus</i>			32			10
<b>Spionidae</b>						
<i>Polydora ligni</i>						
<i>Polydora limicola</i>				16	5	13
<i>Polydora socialis</i>						
<i>Polydora</i> sp.						
<i>Prionospio cirrifera</i>					60	

## SETTLING RACK DATA

1976-1977

STATION MDR-6

	Aug	Oct	Dec	Feb	Apr	Jun
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POLYCHAETA (cont.)						
Spionidae (cont.)						
<i>Prionospio heterobranchia</i>						
<i>newportensis</i>						
<i>Prionospio</i> sp.						3
<i>Pseudopolydora paucibranchiata</i>						
<i>Spiophanes</i> sp.						
<i>Streblospio benedicti</i>						
Spirorbidae, unid.	48	23			29	179
Syllidae	48	5			25	36
<i>Autolytus</i> sp.						
<i>Brania</i> sp.						
<i>Eusyllis assimilis</i>						
<i>Eusyllis</i> sp.						
<i>Exogone lourei</i>						
<i>Excogone</i> sp.						
<i>Typosyllis pulchra</i>						
<i>Typosyllis</i> sp.						
ANNELEA OLIGOCHAETA						
ARTHROPODA CRUSTACEA						
Amphipoda						
Caprellidea					4	4
Aeginellidae						
<i>Mayerella banksia</i>						
Caprellidae						
<i>Caprella californica</i>			2			9
<i>Caprella equilibra</i>						8
<i>Caprella verrucosa</i>						
<i>Caprella</i> sp.						
Gammaridea, unid.						
Aoridae						
<i>Aorides columbiae</i>						
Amphilochidae						
<i>Gitanopsis vilordes</i>						
Ampithoidae						
<i>Amphithoe plumulosa</i>						
<i>Amphithoe</i> sp.						
Bateidae						
<i>Bata transversa</i>						
Corophiidae						
<i>Corophium acherusicum</i>					1	11
<i>Ericthonius brasiliensis</i>			2			1
<i>Ericthonius hunteri</i>						
<i>Ericthonius</i> sp.		32				
Eusiridae						
<i>Pontogenia rostrata</i>						
Gammaridae						
<i>Elasmopus rapax</i>	32	3				22
<i>Maera simile</i>						
<i>Melita sulca</i>						1
Hyalidae						
<i>Hyale frequens</i>						
<i>Hyale nigra</i>						

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## SETTLING RACK DATA

1976-1977

STATION MDR-6

	Aug	Oct	Dec	Feb	Apr	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Gammaridea (cont.)						
Isacidae						
<i>Gammaropsis thompsoni</i>						
Ischyroceridae						
<i>Jassa calcata</i>						
<i>Microjassa litotis</i>						1
Leucothoidae						
<i>Leucothoe alata</i>						
Podoceridae						
<i>Podocerus brasiliensis</i>						
<i>Podocerus cristatus</i>						
<i>Podocerus</i> sp.	64		2			
Stenothoidae						
<i>Stenothoe valida</i>						
<i>Stenothoe</i> sp.						
Copepoda				139		
Decapoda, unid.					4	11
Decapod larvae						
Brachyura (crabs)						
Brachyura larvae (megalops)						
Grapsidae						
<i>Hemigrapsus oregonensis</i>						
<i>Pachygrapsus crassipes</i>						
Majidae						
<i>Loxorhynchus</i> sp.						
Caridea (shrimp)						
<i>Lysmata californica</i>						
Isopoda						
Arthuridae						
<i>Paranthura elegans</i>						
Ianiridae, unid.						
<i>Ianiropsis</i> sp.						
Idoteidae, unid.						
Jaeropsidae						
<i>Jaeropsis</i> sp.						
Limnoriidae						
<i>Limnoria tripunctata</i>						
Munnidae						
<i>Munna</i> sp.				3		3
Sphaeromatidae						
<i>Paracerceis sculpta</i>	80	58		4		9
Mysidacea (Mysids)			1			
Ostracoda						
Tanaidacea						
<i>Anatanais normani</i>			1			
<i>Leptochelia dubia</i>				1		24
<i>Leptochelia</i> sp.						
Thoracica (Barnacles)						
<i>Balanus amphitrite</i>						
<i>Balanus tintinnabulum</i>						
<i>Balanus</i> sp.						
<i>Chthamalus fissus</i>						
<i>Chthamalus</i> sp.						

SETTLING RACK DATA	1976-1977	STATION MDR-6				
		Aug.	Oct	Dec	Feb	Apr
<b>ARTHROPODA PYCHOGONIDA</b>						
ASCHELINTHES Nematoda						7
BRYOZOA (Counts=# of colonies)				3		
Cheilostomata, unid.						
Bicellariellidae						
<i>Bugula neritina</i>						
<i>Bugula stolonifera</i>						
(=B. californica)						
Celleporidae						
<i>Celleporaria brunnea</i>						3
Cheiloporinidae						
<i>Cryptosula pallasiana</i>						1
<i>Watersipora arcuata</i>						1
Membraniporidae						
<i>Membranipora isabellaeana</i>						
(=M. villosa)						
<i>Membranipora membranacea</i>						
<i>Membranipora tenuis</i>						
<i>Membranipora tuberculata</i>						
Scrupariidae						
<i>Scruparia ambigua</i>						
Thalamoporellidae						
<i>Thalamoporella californica</i>						
Ctenostomata						
Vesiculariidae						
<i>Zoobctryon verticillatum</i>						
CHORDATA						
Asciidiacea						
Aplousbranchia						
<i>Diplosoma macdonaldi</i> (=pizoni)			<0.01g			0.10g
Phlebobranchia						
<i>Ciona intestinalis</i>		320	102		8	391
Stolidobranchia						
<i>Botryllus</i> sp.		0.48g	<0.01g			0.07g
CNIDARIA						
Anthozoa (Sea anemones)						
Hydrozoa-hydraida						
Campanulariidae						
<i>Obelia</i> sp.						
Plumulariidae						
<i>Aglaophenia</i> sp.						
Tubulariidae						
<i>Tubularia</i> sp.						
ECHINODERMATA						
Echinoidea (Sea urchin)						
MOLLUSCA						
Gastropoda					1	
Archaeogastropoda, unid						
Acmaeidae (limpets)						
Atyidae						
<i>Ranularia</i> sp.					1	

SETTLING RACK DATA

1976-1977

STATION MDR-6

Aug Oct Dec Feb Apr Jun

MOLLUSCA (cont.)						
Calyptaeidae						
<i>Crepidula onyx</i>						
<i>Crepidula</i> sp.						
Cephalaspidea, unid.						
Columbellidae						
<i>Mitrella carinata</i>						
Nudibranchia, unid.						1
Scaphandridae						
<i>Acteocina harpa</i>						i
<i>Acteocina</i> sp.						
Pelecypoda						1
Hiatellidae						
<i>Hiatella arctica</i>						
Mytilidae						
<i>Mytilus edulis</i>					15	1
Pectinidae						
<i>Leptopecten latiauratus</i>						
NEMERTEA						1
PHORONIDA						
PLATYHELMINTHES						
Turbellaria						
<i>Polycladida</i>						1
PORIFERA						2
<i>Leucosolenia</i> sp.						
PROTOZOA						
Foraminifera					16	1
PLANTS - Total wet weight all plants				0.10g		
ALGAE, unid.						
CHLOROPHYCOPHYTA CHLOROPHYCEAE						
Uvales						
<i>Enteromorpha</i> sp.						
<i>Ulva</i> sp.						
PHAEOPHYCOPHYTA PHAEOPHYCEAE						
Ectocarpales- <i>Ectocarpus</i> sp.						
RHODOPHYCOPHYTA FLORIDEOPHYCEAE						
Ceramiales- <i>Polysiphonia</i> sp.						

## SETTLING RACK DATA

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1976-1977

STATION MDR-7

Aug	Oct	Dec	Feb	Apr	Jun
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<b>ANNELIDA POLYCHAETA</b>					
Capitellidae					
<i>Capitella capitata</i>	32	5			6
Chaetopteridae					
<i>Chaetopterus variopedatus</i>					
<i>Phyllochaetopterus limicolus</i>					
Chrysopetalidae					
<i>Paleonotus bellis</i>					
Cirratulidae					
<i>Caulleriella alata</i>					
<i>Caulleriella hamata</i>					
<i>Chaetozone corona</i>					
<i>Tharyx</i> sp.					
Cossuridae					
<i>Cossura candida</i>					
Ctenodrilidae					27
<i>Ctenodrilus serratus</i>					
Dorvilleidae					
<i>Ophryotrocha puerilis</i>	32				
<i>Schistomerings longicornis</i>					
Hesionidae					
<i>Gyptis brevipalpa</i>					
<i>Ophiodromus pugettensis</i>					
Nereidae					
<i>Neanthes arenaceodentata</i>					1
<i>Platynereis bicanaliculata</i>			1		
Opheliidae					
<i>Armandia bioculata</i>					
<i>Polyopthalmus pictus</i>			1		3
Pectinariidae					
<i>Pectinaria</i> sp.					
Phyllodocidae					
<i>Anaitides williamsi</i>					
<i>Eulalia aviculifera</i>					
<i>Eulalia</i> sp.					
<i>Eunida sanguinea</i>					
Polynoidae					
<i>Halosydria brevisetosa</i>					
<i>Harmothoe imbricata</i>					
Sabellariidae					
<i>Sabellaria alcocki</i>					
<i>Sabellaria</i> sp.					
Sabellidae					51
<i>Sabella</i> sp.					
Serpulidae					
<i>Eupomatus gracilis</i>	64	1			69
<i>Hydrodoides pacificus</i>	32				
Spionidae					
<i>Polydora ligni</i>	320	23			24
<i>Polydora limicola</i>	64				
<i>Polydora socialis</i>					
<i>Polydora</i> sp.					
<i>Prionospio cirrifera</i>					

	Aug	Oct	Dec	Feb	Apr	Jun
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POLYCHAETA (cont.)						
<i>Spionidae</i> (cont.)						
<i>Prionospio heterobranchia</i>						
<i>newportensis</i>						
<i>Prionospio</i> sp.						1
<i>Pseudopolydora paucibranchiata</i>						
<i>Spiophanes</i> sp.						
<i>Streblospio benedicti</i>						
<i>Spirorbidae</i> , unid.				32		390
<i>Syllidae</i>				2		72
<i>Autolytus</i> sp.						
<i>Brania</i> sp.						
<i>Eusyllis assimilis</i>						
<i>Eusyllis</i> sp.						
<i>Exogone lourei</i>						
<i>Exogone</i> sp.						
<i>Typosyllis pulchra</i>						
<i>Typosyllis</i> sp.						
ANNELEIDA OLIGOCHAETA						
ARTHROPODA CRUSTACEA						
<i>Amphipoda</i>						
<i>Caprellidae</i>						20
<i>Aeginellidae</i>						
<i>Mayerella banksia</i>						
<i>Caprellidae</i>						
<i>Caprella californica</i>						23
<i>Caprella equilibra</i>				1		96
<i>Caprella verrucosa</i>						
<i>Caprella</i> sp.						
<i>Gammaridea</i> , unid.						
<i>Aoridae</i>						
<i>Aorides columbiae</i>						
<i>Amphilochidae</i>						
<i>Gitanopsis vilordes</i>						
<i>Ampithoidae</i>						
<i>Amphithoe plumulosa</i>						
<i>Amphithoe</i> sp.						
<i>Bateidae</i>						
<i>Bata transversa</i>						
<i>Corophiidae</i>						
<i>Corophium acherusicum</i>				4		57
<i>Ericthonius brasiliensis</i>			32	1		26
<i>Ericthonius hunteri</i>						
<i>Ericthonius</i> sp.						
<i>Eusiridae</i>						
<i>Pontogenia rostrata</i>						
<i>Gammaridae</i>						
<i>Elasmopus rapax</i>			32	3		28
<i>Maera simile</i>						
<i>Melita sulca</i>						
<i>Hyalidae</i>						
<i>Hyale frequens</i>						
<i>Hyale nigra</i>						

	Aug	Oct	Dec	Feb	Apr	Jun
ARTHROPODA CRUSTACEA (cont.)						
Gammaridea (cont.)						
Isaeidae						
<i>Gammaropsis thompsoni</i>						
Ischyrooceridae						
<i>Jassa falcata</i>			2			
<i>Microjassa litotes</i>						1
Leucothoidae						
<i>Leucothoe alata</i>		32				
Podoceridae						
<i>Podocerus brasiliensis</i>				7		
<i>Podocerus cristatus</i>						
<i>Podocerus</i> sp.		64				85
Stenothoidae						
<i>Stenothoe valida</i>						2
<i>Stenothoe</i> sp.						
Copepoda		64	12			112
Decapoda, unid.						
Decapod larvae						
Brachyura (crabs)						
Brachyura larvae (megalops)						
Grapidae						
<i>Hemigrapsus oregonensis</i>						
<i>Pachygrapsus crassipes</i>						1
Majidae						
<i>Loxorhynchus</i> sp.						
Caridae (shrimp)						
<i>Lysmata californica</i>						
Isopoda						
Arthuridae						
<i>Paranthura elegans</i>						
Ianiropsidae, unid.						
<i>Ianiropsis</i> sp.						
Idoteidae, unid.						
Jacopsidae						
<i>Jacropsis</i> sp.						
Limnoridae						
<i>Limnoria tripunctata</i>						
Munnidae						
<i>Munna</i> sp.						
Sphaeromatidae						
<i>Paracerceis sculpta</i>				16		6
Mysidacea (Mysids)						
Ostracoda						
Tanaidacea						
<i>Anatanais normani</i>						
<i>Leptocheilia dubia</i>						3
<i>Leptocheilia</i> sp.						
Thoracica (Barnacles)			1			
<i>Balanus amphitrite</i>						
<i>Balanus tintinnabulum</i>						1
<i>Balanus</i> sp.						
<i>Chthamalus fissus</i>						
<i>Chthamalus</i> sp.						

SETTLING RACK DATA	1976-1977						STATION MDR-7
	Aug.	Oct	Dec	Feb	Apr	Jun	
<b>ARTHROPODA PYCNOGONIDA</b>							
ASCHELMINTHES Nematoda							41
<b>BRYOZOA (Counts=# of colonies)</b>							
Cheilostomata, unid.							
Bicellariellidae							
<i>Bugula neritina</i>							43
<i>Bugula stolonifera</i>							2
(= <i>B. californica</i> )							
Celleporidae							
<i>Celleporaria brunnea</i>							6
Cheiloporinidae							
<i>Cryptosula pallasiana</i>						5	66
<i>Watersipora arcuata</i>							10
Membraniporidae							
<i>Membranipora isabelleana</i>							
(= <i>M. villosa</i> )							
<i>Membranipora membranacea</i>						<0.01g	
<i>Membranipora tenuis</i>							
<i>Membranipora tuberculata</i>							
Scrupariidae							
<i>Scruparia ambigua</i>							
Thalamoporellidae							
<i>Thalamoporella californica</i>							
Ctenostomata							
Vesiculariidae							
<i>Zoobotryon verticillatum</i>							
<b>CHORDATA</b>							
Asciidiacea							
Aplousobranchia							
<i>Diplosoma macdonaldi</i> (= <i>pizoni</i> )							0.10g
Phlebobranchia							
<i>Ciona intestinalis</i>				1568	48		122
Stolidobranchia							
<i>Botryllus</i> sp.						<0.32g <0.01g	0.04g
<b>CNIDARIA</b>							
Anthozoa (Sea anemones)							
Hydrozoa-hydrozoa							
Campanulariidae							
<i>Obelia</i> sp.							<0.01g
Plumulariidae							
<i>Aglaophenia</i> sp.							
Tubulariidae							
<i>Tubularia</i> sp.							
<b>ECHINODERMATA</b>							
Echinoidea (Sea urchin)							
<b>MOLLUSCA</b>							
Gastropoda							
Archaeogastropoda, unid.							
Acmaeidae (limpets)							
Atyidae							
<i>Diminisa</i> sp.							

SETTLING RACK DATA	1976-1977			STATION MDR-7		
	Aug	Oct	Dec	Feb	Apr	Jun
MOLLUSCA (cont.)						
Calyptaeidae						
<i>Crepidula onyx</i>						
<i>Crepidula</i> sp.						
Cephalaspidea, unid.						
Columbellidae						
<i>Mitrella carinata</i>						
Nudibranchia, unid.						1
Scaphandridae						
<i>Acteocina harpa</i>						
<i>Acteocina</i> sp.						
Pelecypoda						
Hiatellidae						
<i>Hiatella arctica</i>			32			2
Mytilidae						
<i>Mytilus edulis</i>						
Pectinidae						
<i>Leptopecten latiauratus</i>						
NEMERTEA						
PHORONIDA						
PLATYHELMINTHES						
Turbellaria						
<i>Polycladida</i>						2
PORIFERA						
<i>Leucosolenia</i> sp.						
PROTOZOA						
Foraminifera						
PLANTS - Total wet weight all plants						1
ALGAE, unid.						
CHLOROPHYCOPHYTA CHLOROPHYCEAE						
Uvales						
<i>Enteromorpha</i> sp.						
<i>Ulva</i> sp.						
PHAEOPHYCOPHYTA PHAEOPHYCEAE						
Ectocarpales- <i>Ectocarpus</i> sp.						
RHODOPHYCOPHYTA FLORIDEOPHYCEAE						
Ceramiales- <i>Polysiphonia</i> sp.						

SETTLING RACK DATA

1976-1977

STATION MDR-8

Aug Oct Dec Feb Apr Jun

**ANNELEA POLYCHAETA****Capitellidae***Capitella capitata***Chaetopteridae***Chaetopterus variopedatus**Phyllochaetopterus limicola***Chrysopetalidae***Paleonotus bellis***Cirratulidae***Caulieriella alata**Caulieriella hamata**Chaetozone corona**Tharyx sp.***Cossuridae***Cossura candida***Ctenodrilidae***Ctenodrilus serratus***Dorvilleidae***Ophryotrocha puerilis**Schistomerings longicornis***Hesionidae***Gyptis brevipalpa**Ophiodromus pugettensis***Nereidae***Neanthes arenaceodentata**Platynereis bicanaliculata***Opheliidae***Armandia bioculata**Polyopthalmus pictus*

1

**Pectinariidae***Pectinaria sp.***Phyllodocidae***Anaitides williamsi**Eulalia aviculifera**Eulalia sp.**Eunida sanguinea***Polynoidae***Halosydna brevisetosa**Harmothoe imbricata***Sabellariidae***Sabellaria alcocki**Sabellaria sp.***Sabellidae***Sabella sp.***Serpulidae***Eupomatus gracilis**Hydroides pacificus*

10

**Spionidae***Polydora ligni**Polydora limicola**Polydora socialis**Polydora sp.**Prionospio cirrifera*

10

8

## SETTLING RACK DATA

1976-1977

STATION MDR-8

	Aug	Oct	Dec	Feb	Apr	Jun
POLYCHAETA (cont.)						
Spionidae (cont.)						
<i>Prionospio heterobranchia</i>						
<i>newportensis</i>						
<i>Prionospio</i> sp.						
<i>Pseudopolydora paucibranchiata</i>						
<i>Spiophanes</i> sp.						
<i>Streblospio benedicti</i>						
<i>Spirorbidae</i> , unid.			1			88
Syllidae						
<i>Autolytus</i> sp.						
<i>Brania</i> sp.						
<i>Eusyllis assimilis</i>			1			
<i>Eusyllis</i> sp.						
<i>Exogone lourei</i>						
<i>Excogone</i> sp.						
<i>Typosyllis pulchra</i>						
<i>Typosyllis</i> sp.						
ANNELEIDA OLIGOCHAETA						
ARTHROPODA CRUSTACEA						
Amphipoda						
Caprellidea						
Aeginellidae						
<i>Mayerella banksia</i>						
Caprellidae						
<i>Caprella californica</i>						
<i>Caprella equilibra</i>						
<i>Caprella verrucosa</i>						
<i>Caprella</i> sp.						
Gammaridea, unid.						
Aoridae						
<i>Aorides columbiae</i>						
Amphilochidae						
<i>Gitanopsis vilordes</i>						
Ampithoidae						
<i>Amphithoe plumulosa</i>	1					
<i>Amphithoe</i> sp.						
Bateidae						
<i>Bata transversa</i>						
Corophiidae						
<i>Corophium acherusicum</i>	10					16032
<i>Ericthonius brasiliensis</i>	5					
<i>Ericthonius hunteri</i>						
<i>Ericthonius</i> sp.						
Eusiridae						
<i>Pontogenia rostrata</i>						
Gammaridae						
<i>Elasmopus rapax</i>	84					40
<i>Maera simile</i>						
<i>Melita sulca</i>						
Hyalidae						
<i>Hyale frequens</i>						
<i>Hyale nigra</i>						

SETTLING RACK DATA

1976-1977

STATION MDR-8

	Aug	Oct	Dec	Feb	Apr	Jun
ARTHROPODA CRUSTACEA (cont.)						
Gammaridea (cont.)						
Isaeidae						
<i>Gammaropsis thompsoni</i>						
Ischyroceridae						
<i>Jassa falcata</i>						
<i>Microjassa litotes</i>						
Leucothoidae						
<i>Leucothoe alata</i>						
Podoceridae						
<i>Podocerus brasiliensis</i>						
<i>Podocerus cristatus</i>						16
<i>Podocerus sp.</i>	109					
Stenothoidae						
<i>Stenothoe valida</i>		1				
<i>Stenothoe sp.</i>						
Copepoda	11					64
Decapoda, unid.						
Decapod larvae						
Brachyura (crabs)						
Brachyura larvae (megalops)						
Grapsidae						
<i>Hemigrapsus oregonensis</i>						
<i>Pachygrapsus crassipes</i>						
Majidae						
<i>Loxorhynchus sp.</i>						
Caridea (shrimp)						
<i>Lysmata californica</i>						
Isopoda						
Arthuridae						
<i>Paranthura elegans</i>						
Ianiidae, unid.						
<i>Ianiropsis sp.</i>						
Idoteidae, unid.						
Jaeropsidae						
<i>Jaeropsis sp.</i>						
Limnoridae						
<i>Limnoria tripunctata</i>						
Munnidae						
<i>Munna sp.</i>						
Sphaeromatidae						
<i>Paracerceis sculpta</i>	406					120
Mysidacea (Mysids)						
Ostracoda						
Tanaidacea						
<i>Anatanais normani</i>						8
<i>Leptochelia dubia</i>						
<i>Leptochelia sp.</i>						
Thoracica (Barnacles)						
<i>Balanus amphitrite</i>						
<i>Balanus tintinnabulum</i>						
<i>Balanus sp.</i>						
<i>Chthamalus fissus</i>						
<i>Chthamalus sp.</i>						

SETTLING RACK DATA	1976-1977	STATION MDR-8					
		Aug.	Oct	Dec	Feb	Apr	Jun
ARTHROPODA PYCNOGONIDA							
ASCHELMINTHES Nematoda							
BRYOZOA (Counts=# of colonies)							
Cheilostomata, unid.							
Bicellariellidae							
<i>Bugula neritina</i>							
<i>Bugula stolonifera</i>							
(= <i>B. californica</i> )							
Celleporidae							
<i>Celleporaria brunnea</i>							
Cheiloporinidae							
<i>Cryptosula pallasiana</i>							
<i>Watersipora arcuata</i>							
Membraniporidae							
<i>Membranipora isabellaeana</i>							
(= <i>M. villosa</i> )							
<i>Membranipora membranacea</i>							
<i>Membranipora tenuis</i>							
<i>Membranipora tuberculata</i>							
Scrupariidae							
<i>Scruparia ambigua</i>							
Thalamoporellidae							
<i>Thalamoporella californica</i>							
Ctenostomata							
Vesiculariidae							
<i>Zoobotryon verticillatum</i>							
CHORDATA							
Asciidiacea							
Aplousobranchia							
<i>Diplosoma macdonaldi</i> (= <i>pizoni</i> )							
Phlebobranchia							
<i>Ciona intestinalis</i>	382						920
Stolidobranchia							
<i>Botryllus</i> sp.							
CNIDARIA							
Anthozoa (Sea anemones)							
Hydrozoa-hydroidea							
Campanulariidae							
<i>Obelia</i> sp.							
Plumulariidae							
<i>Aglaophenia</i> sp.							
Tubulariidae							
<i>Tubularia</i> sp.							0.48g
ECHINODERMATA							
Echinoidea (Sea urchin)							
MOLLUSCA							
Gastropoda							
Archaeogastropoda, unid.							
Acmaeidae (limpets)							
Atyidae							
<i>Haminoea</i> sp.							

SETTLING RACK DATA	1976-1977	STATION MDR-8				
		Aug	Oct	Dec	Feb	Apr
MOLLUSCA (cont.)						
Calyptaeidae						
<i>Crepidula onyx</i>						
<i>Crepidula</i> sp.						
Cephalaspidea, unid.						
Columbellidae						
<i>Mitrella carinata</i>						
Nudibranchia, unid.						8
Scaphandridae						
<i>Acteocina harpa</i>						
<i>Acteocina</i> sp.						
Pelecypoda		1				
Hiatellidae						
<i>Hiatella arctica</i>						
Mytilidae						
<i>Mytilus edulis</i>						184
Pectinidae						
<i>Leptopecten latiauratus</i>						
NEMERTEA						
PHORONIDA						
PLATYHELMINTHES						
Turbellaria						
<i>Polycladida</i>	7					56
PORIFERA						
<i>Leucosolenia</i> sp.						
PROTOZOA						
Foraminifera						8
PLANTS - Total wet weight all plants						
ALGAE, unid.						
CHLOROPHYCOPHYTA CHLOROPHYCEAE						
Uvales						
<i>Enteromorpha</i> sp.						
<i>Ulva</i> sp.						
PHAEOPHYCOPHYTA PHAEOPHYCEAE						
Ectocarpales- <i>Ectocarpus</i> sp.						
RHODOPHYCOPHYTA FLORIDEOPHYCEAE						
Ceramiales- <i>Polysiphonia</i> sp.						

## SETTLING RACK DATA

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1976-1977

	Aug	Oct	Dec	Feb	Apr	Jun
<b>ANNELEIDA POLYCHAETA</b>						
<b>Capitellidae</b>						
<i>Capitella capitata</i>			1	1	1	3
<b>Chaetopteridae</b>						
<i>Chaetopterus variopedatus</i>						
<i>Phyllochaetopterus limicola</i>						
<b>Chrysopetalidae</b>						
<i>Paleonotus bellis</i>						
<b>Cirratulidae</b>						
<i>Caulieriella alata</i>						
<i>Caulieriella horata</i>						
<i>Chaetozone corona</i>						
<i>Tharyx</i> sp.						
<b>Cossuridae</b>						
<i>Cossura candida</i>						
<b>Ctenodrilidae</b>						
<i>Ctenodrilus serratus</i>					1	
<b>Dorvilleidae</b>						
<i>Ophryotrocha puerilis</i>		2			1	
<i>Schistomerings longicornis</i>						
<b>Hesionidae</b>						
<i>Gyptis brevipalpa</i>						
<i>Ophiadromus pugettensis</i>						
<b>Nereidae</b>						
<i>Neanthes arenaceodentata</i>						
<i>Platynereis bicanaliculata</i>				1	1	1
<b>Opheliidae</b>						
<i>Armandia bioculata</i>		1				
<i>Polyopthalmus pictus</i>				1		1
<b>Pectinariidae</b>						
<i>Pectinaria</i> sp.						
<b>Phyllodocidae</b>						
<i>Anaitides williamsi</i>						
<i>Eulalia aviculifera</i>						
<i>Eulalia</i> sp.						
<i>Eunida sanguinea</i>						
<b>Polynoidae</b>						
<i>Halosydna brevisetosa</i>						
<i>Harmothoe imbricata</i>						
<b>Sabellariidae</b>						
<i>Sabellaria alcocki</i>						
<i>Sabellaria</i> sp.						
<b>Sabellidae</b>						
<i>Sabella</i> sp.						
<b>Serpulidae</b>						
<i>Eupomatus gracilis</i>						
<i>Hydroides pacificus</i>		18			59	4
<b>Spionidae</b>						
<i>Polydora ligni</i>	220	19			19	15
<i>Polydora limicola</i>						
<i>Polydora socialis</i>						
<i>Polydora</i> sp.						
<i>Prionospio cirrifera</i>					1	

## SETTLING RACK DATA

1976-1977

STATION MDR-9

	Aug	Oct	Dec	Feb	Apr	Jun
POLYCHAETA (cont.)						
Spirionidae (cont.)						
<i>Prionospio heterobranchia</i>						
<i>newportensis</i>						
<i>Prionospio</i> sp.						
<i>Pseudopolydora paucibranchiata</i>						
<i>Spiophanes</i> sp.						
<i>Streblospio benedicti</i>						
Spirorbidae, unid.	20	21			306	114
Syllidae	2				8	12
<i>Autolytus</i> sp.						
<i>Brania</i> sp.						
<i>Eusyllis assimilis</i>						
<i>Eusyllis</i> sp.						
<i>Exogone lourei</i>						
<i>Exogone</i> sp.						
<i>Typosyllis pulchra</i>						
<i>Typosyllis</i> sp.						
ANNELEA OLIGOCHAETA						
ARTHROPODA CRUSTACEA						
Amphipoda						
Caprellidea						
Aeginellidae						
<i>Deutella californica</i>						
<i>Mayerella banksia</i>						
Caprellidae						
<i>Caprella californica</i>						2
<i>Caprella equilibra</i>						
<i>Caprella verrucosa</i>						
<i>Caprella</i> sp.						
Gammaridea, unid.						
Aoridae						
<i>Aorides columbiae</i>						
Amphilochidae						
<i>Gitanopsis vilordes</i>						
Ampithoidae						
<i>Amphithoe plumulosa</i>						
<i>Amphithoe</i> sp.						
Bateidae						
<i>Bata transversa</i>						
Corophiidae						
<i>Corophium acherusicum</i>	10	2			31	11
<i>Ericthonius brasiliensis</i>						15
<i>Ericthonius hunteri</i>						
<i>Ericthonius</i> sp.						
Eusiridae						
<i>Pontogenia rostrata</i>						
Gammaridae						
<i>Elasmopus rapax</i>	42	25			4	151
<i>Maera simile</i>						1
<i>Melita sulca</i>						
Hyalidae						
<i>Hyale frequens</i>						
<i>Hyale nigra</i>						

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SETTLING RACK DATA

1976-1977

STATION MDR-9

	Aug	Oct	Dec	Feb	Apr	Jun
ARTHROPODA CRUSTACEA (cont.)						
Gammaridea (cont.)						
Isaeidae						
<i>Gammaropsis thompsoni</i>						
Ischyroceridae						
<i>Jassa falcata</i>				2		
<i>Microjassa litotes</i>						
Leucothoidae						
<i>Leucothoe alata</i>						
Podoceridae						
<i>Podocerus brasiliensis</i>						
<i>Podocerus cristatus</i>		16	23		42	17
<i>Podocerus sp.</i>						
Stenothoidae						
<i>Stenothoe valida</i>						
<i>Stenothoe sp.</i>						
Copepoda	5	34			11	18
Decapoda, unid.						
Decapod larvae						
Brachyura (crabs)						
Brachyura larvae (megalops)						
Grapsidae						
<i>Hemigrapsus oregonensis</i>						
<i>Pachygrapsus crassipes</i>						
Majidae						
<i>Loxorhynchus sp.</i>						
Caridea (shrimp)						
<i>Lysmata californica</i>						
Isopoda						
Arthuridae						
<i>Paranthura elegans</i>						
Ianiridae, unid.						
<i>Ianiropsis sp.</i>						
Idoteidae, unid.						
Jaeropsidae						
<i>Jaeropsis sp.</i>						
Limnoridae						
<i>Limnoria tripunctata</i>						
Munnidae						
<i>Munna sp.</i>						
Sphaeromatidae						
<i>Paracerceis sculpta</i>	80	39			5	7
Mysidacea (Mysids)						
Ostracoda						
Tanaidacea						
<i>Anatanaid normani</i>						18
<i>Leptochelia dubia</i>						
<i>Leptochelia sp.</i>						
Thoracica (Barnacles)				1		
<i>Balanus amphitrite</i>						
<i>Balanus tintinnabulum</i>						
<i>Balanus sp.</i>						
<i>Chthamalus fissus</i>						
<i>Chthamalus sp.</i>					3	

## SETTLING RACK DATA

1976-1977

STATION MDR-9

Aug Oct Dec Feb Apr Jun

<b>ARTHROPODA PYCNOGONIDA</b>						
ASCHELMINTHES Nematoda						
BRYOZOA (Counts=# of colonies)	2				3	1
Cheilostomata, unid.						
Bicellariellidae						
<i>Bugula neritina</i>						
<i>Bugula stolonifera</i>						
(= <i>B. californica</i> )						
Celleporidae						
<i>Celleporaria brunnea</i>			5			1
Cheiloporinidae						
<i>Cryptosula pallasiana</i>						106
<i>Watersipora arcuata</i>						2
Membraniporidae						
<i>Membranipora isabelleana</i>						
(= <i>M. villosa</i> )						
<i>Membranipora membranacea</i>						
<i>Membranipora tenuis</i>						
<i>Membranipora tuberculata</i>						
Scrupariidae						
<i>Scruparia ambigua</i>						
Thalamoporellidae						
<i>Thalamoporella californica</i>						
Ctenostomata						
Vesiculariidae						
<i>Zoobciryon verticillatum</i>						
<b>CHORDATA</b>						
Asciidiacea						
Aplousobranchia						
<i>Diplosoma macdonaldi</i> (=pizoni)						
Phlebobranchia						
<i>Ciona intestinalis</i>	45		91		725	
Stolidobranchia						
<i>Botryllus</i> sp.					0.02g	
<b>CNIDARIA</b>						
Anthozoa (Sea anemones)						
Hydrozoa-hydroida						
Campanulariidae						
<i>Obelia</i> sp.					0.10 g	0.03g
Plumulariidae						
<i>Aglaophenia</i> sp.						
Tubulariidae						
<i>Tubularia</i> sp.						
<b>ECHINODERMATA</b>						
Echinoidea (Sea urchin)					1	
<b>MOLLUSCA</b>						
Gastropoda						
Archaeogastropoda, unid.						
Acmaeidae (limpets)						
Atyidae						
<i>Haminsea</i> sp.						

## SETTLING RACK DATA

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1976-1977Page 5 of 5  
STATION MDR-9

Aug Oct Dec Feb Apr Jun

MOLLUSCA (cont.)						
Calyptreidae						
<i>Crepidula onyx</i>						
<i>Crepidula</i> sp.						
Cephalaspidea, unid.						63
Columbellidae						
<i>Mitrella carinata</i>						
Nudibranchia, unid.						
Scaphandridae						
<i>Acteocina harpa</i>						
<i>Acteocina</i> sp.						
Pelecypoda						
Hiatellidae						
<i>Hiatella arctica</i>						
Mytilidae						
<i>Mytilus edulis</i>					4	3
Pectinidae						
<i>Leptopecten latiauratus</i>						
NEMERTEA						
PHORONIDA					1	
PLATYHELMINTHES						
Turbellaria						
<i>Polycladia</i>				2		1
PORIFERA						4
<i>Leucosolenia</i> sp.						
PROTOZOA						
<i>Foraminifera</i>					1	
PLANTS - Total wet weight all plants						
ALGAE, unid.						
CHLOROPHYCOPHYTA CHLOROPHYCEAE						
Uvales						
<i>Enteromorpha</i> sp.						<0.01g
<i>Ulva</i> sp.						
PHAEOPHYCOPHYTA PHAEOPHYCEAE						
<i>Ectocarpales-Ectocarpus</i> sp.						
RHODOPHYCOPHYTA FLORIDEOPHYCEAE						
<i>Ceramiales-Polysiphonia</i> sp.						

SETTLING RACK DATA

1976-1977

STATION MDR-11

	Aug	Oct	Dec	Feb	Apr	Jun
<b>ANNELIDA POLYCHAETA</b>						
Capitellidae						
<i>Capitella capitata</i>				2	1	13
Chaetopteridae						
<i>Chaetopterus variopedatus</i>						
<i>Phyllochaetopterus limicola</i>						
Chrysopetalidae						
<i>Paleonotus bellis</i>					2	
Cirratulidae						
<i>Caulleriella alata</i>						
<i>Caulleriella hamata</i>						
<i>Chaetozone corona</i>					3	1
<i>Tharyx</i> sp.						
Cossuridae						
<i>Cossura candida</i>					5	
Ctenodrilidae						
<i>Ctenodrilus serratus</i>					10	2
Dorvilleidae						
<i>Ophryotrocha puerilis</i>			2			
<i>Schistomerings longicornis</i>						
Hesionidae						
<i>Gyptis brevipalpa</i>					2	
<i>Ophiodromus pugettensis</i>						
Nereidae						
<i>Neanthes arenaceodentata</i>					1	
<i>Platynereis bicanaliculata</i>						
Opheliidae						
<i>Armandia bioculata</i>					1	
<i>Polyopthalmus pictus</i>			2			
Pectinariidae						
<i>Pectinaria</i> sp.					1	
Phyllodocidae						
<i>Anaitides williamsi</i>						
<i>Eulalia aviculifera</i>						
<i>Eulalia</i> sp.					1	
<i>Eumida sanguinea</i>						
Polynoidae						
<i>Halosydna brevicetosa</i>						
<i>Harmothoe imbricata</i>						
Sabellariidae						
<i>Sabellaria alcocki</i>						
<i>Sabellaria</i> sp.						
Sabellidae						
<i>Sabella</i> sp.						
Serpulidae						18
<i>Eupomatus gracilis</i>						
<i>Hydroides pacificus</i>			72		8	59
Spionidae						
<i>Polydora ligni</i>				26	5	24
<i>Polydora limicola</i>						8
<i>Polydora socialis</i>						2
<i>Polydora</i> sp.				6		
<i>Prionospio cirrifera</i>						

## SETTLING RACK DATA

1976-1977

STATION MDR-11

	Aug	Oct	Dec	Feb	Apr	Jun
POLYCHAETA (cont.)						
Spionidae (cont.)						
<i>Prionospio heterobranchia</i>						
<i>newportensis</i>						
<i>Prionospio</i> sp.						3
<i>Pseudopolydora paucibranchiata</i>						
<i>Spiophanes</i> sp.						
<i>Streblospio benedicti</i>						
<i>Spirorhidae</i> , unid.	16		12		145	179
Syllidae	2					27
<i>Autolytus</i> sp.						
<i>Brania</i> sp.						
<i>Eusyllis assimilis</i>						1
<i>Eusyllis</i> sp.						
<i>Exogone lourei</i>						
<i>Excogone</i> sp.						15
<i>Typosyllis pulchra</i>						
<i>Typosyllis</i> sp.						
ANNELETA OLIGOCHAETA						
ARTHROPODA CRUSTACEA						
Amphipoda						
Caprellidea						
Aeginellidae						
<i>Mayerella banksia</i>						
Caprellidae						
<i>Caprella californica</i>	2					26
<i>Caprella equilibra</i>				2		1
<i>Caprella verrucosa</i>						
<i>Caprella</i> sp.						5
Gammaridea, unid.						
Aoridae						
<i>Aorida columbiae</i>						
Amphilochidae						
<i>Gitanopsis vilordes</i>						
Ampithoidae						
<i>Amphithoe plumulosa</i>						
<i>Amphithoe</i> sp.						
Bateidae						
<i>Bata transversa</i>						
Corophiidae						
<i>Corophium acherusicum</i>	22		15			3
<i>Erichthionius brasiliensis</i>	2		2		62	7
<i>Erichthionius hunteri</i>						
<i>Erichthionius</i> sp.						
Eusiridae						
<i>Pontogenia rostrata</i>						
Gammaridae						
<i>Elasmopus rapax</i>	84		21		1	3
<i>Maera simile</i>						
<i>Melita sulca</i>						
Hyalidae						
<i>Hyale frequens</i>						
<i>Hyale nigra</i>						

SETTLING RACK DATA

1976-1977

STATION MDR-11

	Aug	Oct	Dec	Feb	Apr	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
<b>Gammaridea (cont.)</b>						
Isaeidae						
<i>Gammaropsis thompsoni</i>						
Ischyroceridae						
<i>Jassa falcata</i>						
<i>Microjassa litotes</i>						
Leucothoidae						
<i>Leucothoe alata</i>						
Podoceridae						
<i>Podocerus brasiliensis</i>						
<i>Podocerus cristatus</i>	96	18			5	44
<i>Podocerus</i> sp.						
Stenothoidae						
<i>Stenothoe valida</i>						18
<i>Stenothoe</i> sp.						
Copepoda				14		
Decapoda, unid.					6	18
Decapod larvae						
Brachyura (crabs)						1
Brachyura larvae (megalops)						
Grapsidae						
<i>Hemigrapsus oregonensis</i>						
<i>Pachygrapsus crassipes</i>						
Majidae						
<i>Loxorhynchus</i> sp.						
Caridea (shrimp)						
<i>Lysmata californica</i>						
Isopoda						
Arthuridae						
<i>Paranthura elegans</i>						
Ianiidae, unid.						
<i>Ianiropsis</i> sp.						
Idoteidae, unid.						
Jaeropsidae						
<i>Jaeropsis</i> sp.						
Limnoridae						
<i>Limnoria tripunctata</i>						1
Munnidae						
<i>Munna</i> sp.						
Sphaeromatidae						
<i>Paracerceis sculpta</i>	150	56			23	66
Mysidacea (Mysids)						
Ostracoda						
Tanaidacea						
<i>Anatanais normani</i>						2
<i>Leptochelia dubia</i>						
<i>Leptochelia</i> sp.						
Thoracica (Barnacles)						
<i>Balanus amphitrite</i>						5
<i>Balanus tintinnabulum</i>						
<i>Balanus</i> sp.						
<i>Chthamalus fissus</i>						
<i>Chthamalus</i> sp.					1	

## SETTLING RACK DATA

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1976-1977Page 4 of 5  
STATION MDR-11

	Aug.	Oct	Dec	Feb	Apr	Jun
ARTHROPODA PYCNOGONIDA						
ASCHELMINTHES Nematoda				2	4	
BRYOZOA (Counts=# of colonies)					39	8
Cheilostomata, unid.						
Bicellariellidae						
<i>Bugula neritina</i>						
<i>Bugula stolonifera</i>						
(=B. californica)						
Celleporidae						
<i>Celleporaria brunnea</i>						
Cheiloporinidae						
<i>Cryptosula pallasiana</i>						18
<i>Watersipora arcuata</i>						3
Membraniporidae						
<i>Membranipora isabelliana</i>						
(=M. villosa)						
<i>Membranipora membranacea</i>						
<i>Membranipora tenuis</i>						
<i>Membranipora tuberculata</i>						
Scrupariidae						
<i>Scruparia ambigua</i>						
Thalamoporellidae						
<i>Thalamoporella californica</i>						
Ctenostomata						
Vesiculariidae						
<i>Zoobatrachion verticillatum</i>						
CHORDATA						
Asciidiacea						
Aplousobranchia						
<i>Diplosoma macdonaldi</i> (=pizoni)						0.15 g
Phlebobranchia						
<i>Ciona intestinalis</i>				1	9	659
Stolidobranchia						
<i>Botryllus</i> sp.						0.01g 0.45g
CNIDARIA						
Anthozoa (Sea anemones)			2			
Hydrozoa-hydroida						
Campanulariidae						
<i>Obelia</i> sp.						0.09g
Plumulariidae						
<i>Aglaophenia</i> sp.						
Tubulariidae						
<i>Tubularia</i> sp.						
ECHINODERMATA						
Echinoidea (Sea urchin)						
MOLLUSCA						
Gastropoda						
Archaeogastropoda, unid.						
Acmaeidae (limpets)						
Atyidae						
<i>Haminaea</i> sp.						

## SETTLING RACK DATA

1976-1977

STATION MDR-11

Aug Oct Dec Feb Apr Jun

MOLLUSCA (cont.)						
Calyptaeidae						
<i>Crepidula onyx</i>						
<i>Crepidula</i> sp.						
Cephalaspidea, unid.						
Columbellidae						
<i>Mitrella carinata</i>						
Nudibranchia, unid.						1
Scaphandridae						
<i>Acteocina harpa</i>						
<i>Acteocina</i> sp.						
Pelecypoda						
Hiatellidae						
<i>Hiatella arctica</i>						
Mytilidae						
<i>Mytilus edulis</i>						1
Pectinidae						
<i>Leptopecten latiauratus</i>						
NEMERTEA						
PHORONIDA						
PLATYHELMINTHES						
Turbellaria						
Polycladia						5
PORIFERA						2
<i>Leucosolenia</i> sp.						
PROTOZOA						
Foraminifera						29
PLANTS - Total wet weight all plants						<0.01g
ALGAE, unid.						
CHLOROPHYCOPHYTA CHLOROPHYCEAE						
Uvales						
<i>Enteromorpha</i> sp.						
<i>Ulva</i> sp.						
PHAEOPHYCOPHYTA PHAEOPHYCEAE						
Ectocarpales- <i>Ectocarpus</i> sp.						
RHODOPHYCOPHYTA FLORIDEOPHYCEAE						
Ceramiales- <i>Polysiphonia</i> sp.						

## SETTLING RACK DATA

1977-1978

STATION MDR-1

	Aug	Oct	Dec	Feb	Apr	Jun
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## ANNELIDA POLYCHAETA

## Capitellidae

*Capitella capitata*

1

## Chaetopteridae

*Chaetopterus variopedatus**Phyllochaetopterus limicola*

## Chrysopetalidae

*Paleonotus bellis*

10

## Cirratulidae

*Caulieriella alata**Caulieriella hamata**Chaetozone corona**Tharyx* sp.

## Cossuridae

*Cossura candida*

## Ctenodrilidae

*Ctenodrilus serratus*

## Dorvilleidae

*Ophryotrocha puerilis**Schistomerings longicornis*

## Hesionidae

*Gyptis brevipalpa**Ophiodromus pugettensis*

## Nereidae

*Neanthes arenaceodentata**Platynereis bicanaliculata*

8 8

1 24

## Opheliidae

*Armandia bioculata*

2

*Polyopthalmus pictus*

16 412

53 4

## Pectinariidae

*Pectinaria* sp.

## Phyllodocidae

*Anaitides williamsi*

3 1

*Eulalia aviculifera*

3

*Eulalia* sp.*Eunida sanguinea*

## Polynoidae

*Halosydna brevisetosa*

1

*Harmothoe imbricata*

## Sabellariidae

*Sabellaria alcocki*

1

*Sabellaria* sp.

## Sabellidae

1

*Sabella* sp.

## Serpulidae

*Eupomatus gracilis*

23

*Hydroides pacificus*

760 196

21

44

## Spionidae

*Polydora ligni*

8

*Polydora limicola*

18

*Polydora socialis**Polydora* sp.*Prionospio cirrifera*

4

## SETTLING RACK DATA

1977-1978

STATION MDR-1

	Aug	Oct	Dec	Feb	Apr	Jun
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POLYCHAETA (cont.)						
Spionidae (cont.)						
<i>Prionospio heterobranchia</i>						
<i>newportensis</i>						
<i>Prionospio</i> sp.						
<i>Pseudopolydora paucibranchiata</i>						
<i>Spiophanes</i> sp.						
<i>Streblospio benedicti</i>						
<i>Spirorbidae</i> , unid.	8					
Syllidae				1	15	44
<i>Autolytus</i> sp.						
<i>Brania</i> sp.		4				
<i>Eusyllis assimilis</i>						
<i>Eusyllis</i> sp.						
<i>Exogone lourei</i>						
<i>Excogone</i> sp.						
<i>Typosyllis pulchra</i>						
<i>Typosyllis</i> sp.						
ANNELIDA OLIGOCHAETA	260					
ARTHROPODA CRUSTACEA						
Amphipoda						
Caprellidea						
Aeginellidae						
<i>Mayerella banksia</i>						
Caprellidae						
<i>Caprella californica</i>	8	4		1	4	4
<i>Caprella equilibra</i>	116	288			62	40
<i>Caprella verrucosa</i>	148	1112		1	5	48
<i>Caprella</i> sp.					65	68
Gammaridea, unid.				1		
Aoridae						
<i>Aorides columbiae</i>						
Amphelochidae						
<i>Citanopsis vilordes</i>						
Ampithoidae						
<i>Amphithoe plumulosa</i>						
<i>Amphithoe</i> sp.						
Bateidae						
<i>Bata transversa</i>						
Corophiidae						
<i>Corophium acherusicum</i>	2252	852		6	121	480
<i>Eriothonius brasiliensis</i>	112	1152			1	8
<i>Eriothonius hunteri</i>						
<i>Eriothonius</i> sp.						
Eusiridae						
<i>Pontogenia rostrata</i>						
Gammaridae						
<i>Elasmopus rapax</i>		32		10		4
<i>Maera simile</i>						
<i>Melita sulca</i>						
Hyalidae						
<i>Hyale frequens</i>						
<i>Hyale nigra</i>					1	

## SETTLING RACK DATA

1977-1978

STATION MDR-1

	Aug	Oct	Dec	Feb	Apr	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Gammaridea (cont.)						
Isaeidae						
<i>Gammaropsis thompsoni</i>						
Ischyroceridae						
<i>Jassa falcata</i>	1332	7308		31	2870	7584
<i>Microjassa litotes</i>						
Leucothoidae						
<i>Leucothoe alata</i>						
Podoceridae						
<i>Podocerus brasiliensis</i>						
<i>Podocerus cristatus</i>	24	116			7	32
<i>Podocerus sp.</i>						
Stenothoidae						
<i>Stenothoe valida</i>		12		6	1	
<i>Stenothoe sp.</i>						
Copepoda			8		50	452
Decapoda, unid.						704
Decapod larvae						
Brachyura (crabs)		4				
Brachyura larvae (megalops)						
Grapsidae						
<i>Hemigrapsus oregonensis</i>						
<i>Pachygrapsus crassipes</i>						
Majidae						
<i>Loxorhynchus sp.</i>						4
Caridea (shrimp)		4				
<i>Lysmata californica</i>						
Isopoda						
Arthuridae						
<i>Paranthura elegans</i>						
Ianiridae, unid.						
<i>Ianiropsis sp.</i>			4			
Idoteidae, unid.						
Jaeropsidae						
<i>Jaeropsis sp.</i>			4			
Limnoridae						
<i>Limnoria tripunctata</i>						
Munnidae						
<i>Munna sp.</i>						
Sphaeromatidae						
<i>Paracerceis sculpta</i>	4			2		
Mysidacea (Mysids)						
Ostracoda						
Tanaidacea						
<i>Anatanais normani</i>	140	152			3	
<i>Leptochelia dubia</i>						
<i>Leptochelia sp.</i>						
Thoracica (Barnacles)					63	
<i>Balanus amphitrite</i>		4				8
<i>Balanus tintinnabulum</i>		12				4
<i>Balanus sp.</i>						
<i>Chthamalus fissus</i>						
<i>Chthamalus sp.</i>						

## SETTLING RACK DATA

1977-1978

STATION MDR-1

Aug. Oct Dec Feb Apr Jun

<b>ARTHROPODA PYCNOGONIDA</b>						
ASCHELMINTHES Nematoda		44		3	34	48
BRYOZOA (Counts = # of colonies)						
Cheilostomata, unid.						
Bicellariellidae						
<i>Bugula neritina</i>		4				
<i>Bugula stolonifera</i>						
(= <i>B. californica</i> )						
Celleporidae						
<i>Celleporaria brunnea</i>						
Cheiloporinidae						
<i>Cryptosula pallasiana</i>	1					
<i>Watersipora arcuata</i>	7					
Membraniporidae						
<i>Membranipora isabelleana</i>				2		2
(= <i>M. villosa</i> )						
<i>Membranipora membranacea</i>						
<i>Membranipora tenuis</i>						
<i>Membranipora tuberculata</i>						
Scrupariidae						
<i>Scruparia ambigua</i>						
Thalamoporellidae						
<i>Thalamoporella californica</i>						
Ctenostomata						
Vesiculariidae						
<i>Zoobotryon verticillatum</i>						
<b>CHORDATA</b>						
Asciidae						
Aplousobranchia						
<i>Diplosoma mcdonaldi</i> (= <i>pizoni</i> )						
Phlebobranchia						
<i>Ciona intestinalis</i>	8			1		8
Stolidobranchia						
<i>Botryllus</i> sp.						
<b>CNIDARIA</b>						
Anthozoa (Sea anemones)						
Hydrozoa-hydroidea						
Campanulariidae						
<i>Obelia</i> sp.	3.68g	0.14g		0.16g	0.44g	1.80g
Plumulariidae						
<i>Aglaophenia</i> sp.					<0.01g	
Tubulariidae						
<i>Tubularia</i> sp.					0.02g	
<b>ECHINODERMATA</b>						
Echinoidea (Sea urchin)					1	
<b>MOLLUSCA</b>						
Gastropoda						
Archaeogastropoda, unid.						
Acmaeidae (limpets)						
Atyidae						
<i>Haminoea</i> sp.						

## SETTLING RACK DATA

1977-1978

STATION MDR-1

Aug Oct Dec Feb Apr Jun

MOLLUSCA (cont.)						
Calyptaeidae						
<i>Crepidula onyx</i>						3
<i>Crepidula</i> sp.						
Cephalaspidea, unid.						
Columbellidae						
<i>Mitrella carinata</i>	12				9	
Nudibranchia, unid.		4		2	164	48
Scaphandridae						
<i>Acteocina harpa</i>						
<i>Acteocina</i> sp.						
Pelecypoda	160	416		190	581	48
Hiatellidae						
<i>Hiatella arctica</i>	12					
Mytilidae						
<i>Mytilus edulis</i>	44				2891	164
Pectinidae						
<i>Leptopecten latiauratus</i>	24				15	4
NEMERTEA						
PHORONIDA						
PLATYHELMINTHES						
Turbellaria						4
<i>Polycladia</i>	8	28			4	
PORIFERA						
<i>Leucosolenia</i> sp.						
PROTOZOA						
Foraminifera					85	260
PLANTS - Total wet weight all plants						
ALGAE, unid.	0.96g					0.40g
CHLOROPHYCOPHYTA CHLOROPHYCEAE						
Uvales						
<i>Enteromorpha</i> sp.		0.20g				
<i>Ulva</i> sp.					0.41g	
PHAEOPHYCOPHYTA PHAEOPHYCEAE						
Ectocarpales- <i>Ectocarpus</i> sp.					0.71g	
RHODOPHYCOPHYTA FLORIDEOPHYCEAE						
Ceramiales- <i>Polysiphonia</i> sp.	0.20g					0.04g

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SETTLING RACK DATA

1977-1978

STATION MDR-3

Aug Oct Dec Feb Apr Jun

## ANNELIDA POLYCHAETA

## Capitellidae

*Capitella capitata*

4

11

## Chaetopteridae

*Chaetopterus variopedatus**Phyllochaetopterus limicola*

## Chrysopetalidae

*Paleonotus bellis*

1

## Cirratulidae

*Caulieriella alata**Caulieriella hamata**Chaetozone corona**Tharyx* sp.

## Cossuridae

*Cossura candida*

## Ctenodrilidae

*Ctenodrilus serratus*

4

1

1

16

## Dorvilleidae

*Ophryotrocha puerilis**Schistomerings longicornis*

## Hesionidae

*Gyptis brevipalpa**Ophiodromus pugettensis*

## Nereidae

*Neanthes arenaceodentata**Platynereis bicanaliculata*

4

8

9

4

12

4

## Opheliidae

*Armandia bicolorata**Polyopthalmus pictus*

44

124

170

30

8

## Pectinariidae

*Pectinaria* sp.

4

1

## Phyllodocidae

*Anaitides williamsi**Eulalia aviculifera**Eulalia* sp.*Eunida sanguinea*

## Polynoidae

*Halosydna brevisetosa**Harmothoe imbricata*

10

1

1

## Sabellariidae

*Sabellaria alcocki**Sabellaria* sp.

5

## Sabellidae

*Sabella* sp.

## Serpulidae

*Eupomatus gracilis**Hydroides pacificus*

2444

100

1

5

## Spionidae

*Polydora ligni*

32

19

6

*Polydora limicola*

18

*Polydora socialis**Polydora* sp.*Prionospio cirriformis*

## SETTLING RACK DATA

1977-1978

STATION MDR-3

	Aug	Oct	Dec	Feb	Apr	Jun
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<b>POLYCHAETA (cont.)</b>						
<b>Spionidae (cont.)</b>						
<i>Prionospio heterobranchia</i>						
<i>newportensis</i>						
<i>Prionospio</i> sp.						
<i>Pseudopolydora paucibranchiata</i>						
<i>Spiophanes</i> sp.						
<i>Streblospio benedicti</i>						
<b>Spirorbidae, unid.</b>	28	32	21		21	32
<b>Syllidae</b>	40				31	
<i>Autolytus</i> sp.		16	53		5	
<i>Brania</i> sp.						12
<i>Eusyllis assimilis</i>						
<i>Eusyllis</i> sp.						
<i>Exogone lourei</i>						
<i>Exogone</i> sp.						
<i>Typosyllis pulchra</i>						
<i>Typosyllis</i> sp.						
<b>ANNELIDA OLIGOCHAETA</b>						
<b>ARTHROPODA CRUSTACEA</b>			126			
<b>Amphipoda</b>						
<b>Caprellidea</b>	1168		993			
<b>Aeginellidae</b>						
<i>Mayerella banksia</i>						
<b>Caprellidae</b>						
<i>Caprella californica</i>	4	142	5	128	424	
<i>Caprella equilibra</i>	68	359	45	491	92	
<i>Caprella verrucosa</i>						
<i>Caprella</i> sp.			25	404	656	
<b>Gammaridea, unid.</b>						
<b>Aoridae</b>						
<i>Aorides columbiae</i>						
<b>Amphiliocidae</b>						
<i>Gitanopsis vilordes</i>						
<b>Ampithoidae</b>						
<i>Amphithoe plumulosa</i>	4					
<i>Amphithoe</i> sp.						
<b>Bateidae</b>						
<i>Bata transversa</i>			2			
<b>Corophiidae</b>						
<i>Corophium acherusicum</i>	1696	1536	119	10	590	1888
<i>Eriothonius brasiliensis</i>	8380	1268	1894	2	12	1144
<i>Eriothonius hunteri</i>						
<i>Eriothonius</i> sp.						
<b>Eusiridae</b>						
<i>Pontogenia rostrata</i>						
<b>Gammaridae</b>						
<i>Elasmopus rapax</i>	88.	140	49	1	7	12
<i>Maera simile</i>						
<i>Melita sulca</i>						
<b>Hyalidae</b>						
<i>Hyale frequens</i>						
<i>Hyale nigra</i>				29		

## SETTLING RACK DATA

1977-1978

STATION MDR-3

	Aug	Oct	Dec	Feb	Apr	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Gammaridea (cont.)						
Isaeidae						
<i>Gammaropsis thompsoni</i>	4	4	1			
Ischyroceridae						
<i>Jassa falcata</i>	1452	572	1514	40	1515	2384
<i>Microjassa litotes</i>						
Leucothoidae						
<i>Leucothoe alata</i>						
Podoceridae						
<i>Podocerus brasiliensis</i>				12		
<i>Podocerus cristatus</i>	724	232	268		41	176
<i>Podocerus</i> sp.						
Stenothoidae						
<i>Stenothoe valida</i>	408	12	91	1	50	16
<i>Sterothoe</i> sp.						
Copepoda	400	12	513	190	108	56
Decapoda, unid.						
Decapod larvae						
Brachyura (crabs)						
Brachyura larvae (megalops)					1	
Grapsidae						
<i>Hemigrapsus oregonensis</i>						
<i>Pachygrapsus crassipes</i>				1		
Majidae						
<i>Loxorhynchus</i> sp.						
Caridea (shrimp)						
<i>Lysmata californica</i>						
Isopoda						
Arthuridae						
<i>Paranthura elegans</i>			2			
Ianiridae, unid.						
<i>Ianiropsis</i> sp.						
Idoteidae, unid.				1		
Jaeropsidae						
<i>Jaeropsis</i> sp.						
Limnoriae						
<i>Limnoria tripunctata</i>					3	
Munnidae						
<i>Munna</i> sp.						
Sphaeromatidae						
<i>Paracerceis sculpta</i>	12	4	39	2		
Mysidacea (Mysids)						
Ostracoda	1					
Tanaidacea						
<i>Anatanais normani</i>	304	72	3	1	4	136
<i>Leptocheilia dubia</i>						
<i>Leptocheilia</i> sp.	4					
Thoracica (Barnacles)						
<i>Balanus amphitrite</i>	28		6		32	12
<i>Balanus tintinnabulum</i>						
<i>Balanus</i> sp.						
<i>Chthamalus fissus</i>						
<i>Chthamalus</i> sp.						

SETTLING RACK DATA	1977-1978				STATION MDR-3		
	Aug	Oct	Dec	Feb	Apr	Jun	
ARTHROPODA PYCNOGONIDA	4		1				
ASCHELMINTHES Nematoda	84		25				28
BRYOZOA (Counts=# of colonies)							
Cheilostomata, unid.							
Bicellariellidae							
<i>Bugula neritina</i>		6					
<i>Bugula stolonifera</i> (= <i>B. californica</i> )		1					
Celleporidae							
<i>Celleporaria brunnea</i>		7	2				
Cheiloporinidae							
<i>Cryptosula pallasiana</i>		1	2				
<i>Watersipora arcuata</i>		4	1				
Membraniporidae							
<i>Membranipora isabellaeana</i> (= <i>M. villosa</i> )					1		
<i>Membranipora membranacea</i>			0.01g				
<i>Membranipora tenuis</i>							
<i>Membranipora tuberculata</i>							
Scrupariidae							
<i>Scruparia ambigua</i>							
Thalamoporellidae							
<i>Thalamoporella californica</i>		47					
Ctenostomata							
Vesiculariidae							
<i>Zoobotryon verticillatum</i>							
CHORDATA							
Asciidiacea							
Aplousobranchia							
<i>Diplosoma mcdonaldi</i> (= <i>pizoni</i> )	0.16g						0.40g
Phlebobranchia							
<i>Ciona intestinalis</i>	1508	308	3	2	37	792	
Stolidobranchia							
<i>Botryllus</i> sp.		<0.04g	<0.01g				0.12g 0.04g
CNIDARIA							
Anthozoa (Sea anemones)							
Hydrozoa-hydroida							
Campanulariidae							
<i>Obelia</i> sp.	0.60g	0.04g	0.15g	0.04g	0.01g	0.04g	
Plumulariidae							
<i>Aglaophenia</i> sp.	<0.04g	<0.04g	0.02g	<0.01g			
Tubulariidae							
<i>Tubularia</i> sp.	1.20g	<0.04g	0.07g		0.71g	<0.04g	
ECHINODERMATA							
Echinoidea (Sea urchin)							1
MOLLUSCA							
Gastropoda					2		
Archaeogastropoda, unid.							3
Acmaeidae (limpets)							
Atyidae							
<i>Haminoea</i> sp.							

## SETTLING RACK DATA

1977-1978

STATION MDR-3

Aug Oct Dec Feb Apr Jun

<b>MOLLUSCA (cont.)</b>						
Calyptidae						
<i>Crepidula onyx</i>						2
<i>Crepidula</i> sp.						
Cephalaspidea, unid.			1			
Columbellidae						
<i>Mitrella carinata</i>						
Nudibranchia, unid.		20	12		18	
Scaphandridae						
<i>Acteocina harpa</i>						
<i>Acteocina</i> sp.						
Pelecypoda	96	36		23	51	32
Hiatellidae						
<i>Hiatella arctica</i>			61			
Mytilidae						
<i>Mytilus edulis</i>					798	32
Pectinidae						
<i>Leptopecten latiauratus</i>		3		58		
NEMERTEA						
PHORONIDA						
PLATYHELMINTHES						
Turbellaria						
<i>Polycladida</i>	104	20	71		18	56
PORIFERA						
<i>Leucosolenia</i> sp.						
PROTOZOA						
Foraminifera			2		80	52
PLANTS - Total wet weight all plants						
ALGAE, unid.				0.01g		
CHLOROPHYCOPHYTA CHLOROPHYCEAE						
<i>Uvales</i>						
<i>Enteromorpha</i> sp.			0.01g		0.04g	0.04g
<i>Ulva</i> sp.	<0.04g					
PHAEOPHYCOPHYTA PHAEOPHYCEAE						
<i>Ectocarpales-Ectocarpus</i> sp.		0.08g				
RHODOPHYCOPHYTA FLORIDEOPHYCEAE						
<i>Ceramiales-Polysiphonia</i> sp.	0.04g	<0.04g		0.41g	<0.04g	

SETTLING RACK DATA

B515  
1977-1978

STATION MDR-4

	Aug	Oct	Dec	Feb	Apr	Jun
<b>ANNELIDA POLYCHAETA</b>						
<b>Capitellidae</b>						
<i>Capitella capitata</i>	8	4				8
<b>Chaetopteridae</b>						
<i>Chaetopterus variopedatus</i>						
<i>Phyllochaetopterus limicola</i>						
<b>Chrysopetalidae</b>						
<i>Paleonotus bellis</i>					1	
<b>Cirratulidae</b>						
<i>Caulieriella alata</i>						
<i>Caulieriella hamata</i>						
<i>Chaetozone corona</i>						
<i>Tharyx sp.</i>						
<b>Cossuridae</b>						
<i>Cossura candida</i>						
<b>Ctenodrilidae</b>						
<i>Ctenodrilus serratus</i>					15	36
<b>Dorvilleidae</b>						
<i>Ophryotrocha puerilis</i>					2	
<i>Schistomeringos longicornis</i>						
<b>Hesionidae</b>						
<i>Gyptis brevipalpa</i>						
<i>Ophiodromus pugettensis</i>						
<b>Nereidae</b>						
<i>Neanthes arenaceodentata</i>						
<i>Platynereis bicanaliculata</i>				3	7	
<b>Opheliidae</b>						
<i>Armandia bioculata</i>						
<i>Polyopthalmus pictus</i>	4	36			40	4
<b>Pectinariidae</b>						
<i>Pectinaria sp.</i>						
<b>Phyllodocidae</b>					2	
<i>Anaitides williamsi</i>						
<i>Eulalia aviculifera</i>						
<i>Eulalia sp.</i>						
<i>Eumida sanguinea</i>						
<b>Polynoidae</b>						
<i>Halosydna brevisetosa</i>						
<i>Harmothoe imbricata</i>						
<b>Sabellariidae</b>						
<i>Sabellaria alcocki</i>					1	
<i>Sabellaria sp.</i>						
<b>Sabellidae</b>	16				1	
<i>Sabella sp.</i>						
<b>Serpulidae</b>						
<i>Eupomatus gracilis</i>					24	
<i>Hydroides pacificus</i>	3672	732		25		
<b>Spionidae</b>						
<i>Polydora ligni</i>	4				4	
<i>Polydora limicola</i>						
<i>Polydora socialis</i>						
<i>Polydora sp.</i>						
<i>Prionospio cirrifera</i>						

## SETTLING RACK DATA

1977-1978

STATION MDR-4

	Aug	Oct	Dec	Feb	Apr	Jun
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## POLYCHAETA (cont.)

## Spionidae (cont.)

<i>Prionospio heterobranchia</i>						24
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<i>newportensis</i>						
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<i>Prionospio</i> sp.						
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<i>Pseudopolydora paucibranchiata</i>						
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<i>Spiophanes</i> sp.						
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<i>Streblospio benedicti</i>						
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<i>Spirorbidae</i> , unid.	36	24				
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<i>Syllidae</i>	16					
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<i>Autolytus</i> sp.						
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<i>Brania</i> sp.						
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<i>Eusyllis assimilis</i>						
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<i>Eusyllis</i> sp.						
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<i>Exogone lourei</i>						
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<i>Exogone</i> sp.						
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<i>Typosyllis pulchra</i>						
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<i>Typosyllis</i> sp.						
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## ANNELIDA OLIGOCHAETA

## ARTHROPODA CRUSTACEA

<i>Amphipoda</i>						
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<i>Caprellidea</i>						
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<i>Aeginellidae</i>						
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<i>Mayerella banksia</i>						
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<i>Caprellidae</i>						
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<i>Caprella californica</i>	4	60				
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<i>Caprella equilibra</i>		216				
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<i>Caprella verrucosa</i>						
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<i>Caprella</i> sp.						
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		1	13		8	
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		6	69		24	
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			1			
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		5	1		40	
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<i>Gammaridea</i> , unid.						
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<i>Aoridae</i>						
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<i>Aorides columbiae</i>						
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<i>Amphilochidae</i>						
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<i>Gitanopsis vilordes</i>						
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<i>Ampithoidae</i>						
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<i>Amphithoe plumulosa</i>						
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<i>Amphithoe</i> sp.						
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<i>Bateidae</i>						
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<i>Bata transversa</i>						
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<i>Corophiidae</i>						
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<i>Corophium acherusicum</i>	28	192				
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<i>Ericthonius brasiliensis</i>	740	740				
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<i>Ericthonius hunteri</i>						
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<i>Ericthonius</i> sp.						
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<i>Eusiridae</i>						
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<i>Pontogenia rostrata</i>						
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<i>Gammaridae</i>						
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<i>Elasmopus rapax</i>	200	152				
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<i>Maera simile</i>						
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<i>Melita sulca</i>						
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<i>Hyalidae</i>						
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<i>Hyale frequens</i>						
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<i>Hyale nigra</i>						
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		9	8		4	
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## SETTLING RACK DATA

1977-1978

STATION MDR-4

	Aug	Oct	Dec	Feb	Apr	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Gammaridea (cont.)						
Isaeidae						
<i>Gammaropsis thompsoni</i>						
Ischyroceridae						
<i>Jassa falcata</i>			112		3	317
<i>Microjassa litotes</i>						164
Leucothoidae						
<i>Leucothoe alata</i>						
Podoceridae						
<i>Podocerus brasiliensis</i>						
<i>Podocerus cristatus</i>	20	864		5	14	144
<i>Podocerus</i> sp.						
Stenothoidae						
<i>Stenothoe valida</i>			40		1	9
<i>Stenothoe</i> sp.						48
Copepoda	4	8		61	14	120
Decapoda, unid.						
Decapod larvae						
<i>Brachyura</i> (crabs)						
<i>Brachyura</i> larvae (megalops)				1		
Grapsidae						
<i>Hemigrapsus oregonensis</i>						
<i>Pachygrapsus crassipes</i>						
Majidae						
<i>Loxorhynchus</i> sp.						
Caridea (shrimp)						
<i>Lysmata californica</i>						
Isopoda						
Arthuridae						
<i>Paranthura elegans</i>						
Ianiidae, unid.						
<i>Ianiropsis</i> sp.						
Idoteidae, unid.						
Jaeropsidae						
<i>Jaeropsis</i> sp.						
Limnoridae						
<i>Limnoria tripunctata</i>					1	
Munnidae						
<i>Munna</i> sp.						
Sphaeromatidae						
<i>Paracerceis sculpta</i>			56		3	1
Mysidacea (Mysids)						4
Ostracoda						
Tanaidacea						
<i>Anatanais normani</i>	44	32			1	12
<i>Leptochelia dubia</i>						
<i>Leptochelia</i> sp.						
Thoracica (Barnacles)						
<i>Balanus amphitrite</i>					22	8
<i>Balanus tintinnabulum</i>						
<i>Balanus</i> sp.						
<i>Chthamalus fissus</i>						
<i>Chthamalus</i> sp.						

SETTLING RACK DATA	1977-1978	STATION MDR-4				
		Aug	Oct	Dec	Feb	Apr
<b>ARTHROPODA PYCNOGONIDA</b>						
ASCHELMINTHES Nematoda	4					
BRYOZOA (Counts=# of colonies)					16	36
Cheilostomata, unid.						
Bicellariellidae						
<i>Bugula neritina</i>		8				
<i>Bugula stolonifera</i>		7				6
(=B. californica)						
Celleporidae						
<i>Celleporaria brunnea</i>	2	1	12			
Cheiloporinidae						
<i>Cryptosula pallasiana</i>		4	3			
<i>Watersipora arcuata</i>	2	1	29			
Membraniporidae						
<i>Membranipora isabellaeana</i>						
(=M. villosa)						
<i>Membranipora membranacea</i>						
<i>Membranipora tenuis</i>						
<i>Membranipora tuberculata</i>						
Scrupariidae						
<i>Scruparia ambigua</i>						
Thalamoporellidae						
<i>Thalamoporella californica</i>		6				
Ctenostomata						
Vesiculariidae						
<i>Zoobotryon verticillatum</i>						
<b>CHORDATA</b>						
Asciidiacea						
Aplousobranchia						
<i>Diplosoma macdonaldi</i> (=pizoni)		0.08g				0.04g
Phlebobranchia						
<i>Ciona intestinalis</i>	372		4	56	576	
Stolidobranchia						
<i>Botryllus</i> sp.		0.04g		<0.01g	0.23g	0.04g
<b>CNIDARIA</b>						
Anthozoa (Sea anemones)						
Hydrozoa-hydroida						
Campanulariidae						
<i>Obelia</i> sp.						
Plumulariidae						
<i>Aglaophenia</i> sp.				<0.01g	0.01g	0.08g
Tubulariidae						
<i>Tubularia</i> sp.	0.20g	0.72g		<0.01g	0.01g	
ECHINODERMATA						
Echinoidea (Sea urchin)						
MOLLUSCA						
Gastropoda						
Archaeogastropoda, unid.						
Acmaeidae (limpets)						
Atyidae						
<i>Haminoea</i> sp.						

SETTLING RACK DATA	1977-1978	Aug	Oct	Dec	Feb	Apr	Jun
MOLLUSCA (cont.)							
Calyptaeidae							
<i>Crepidula onyx</i>							
<i>Crepidula</i> sp.							
Cephalaspidea, unid.							
Columbellidae							
<i>Mitrella carinata</i>							5
Nudibranchia, unid.				12			13
Scaphandridae							12
<i>Acteocina harpa</i>							
<i>Acteocina</i> sp.							
Pelecypoda		24				26	111
Hiatellidae							8
<i>Hiatella arctica</i>							
Mytilidae							
<i>Mytilus edulis</i>							4
Pectinidae							
<i>Leptopecten latiauratus</i>							
NEMERTEA							
PHORONIDA							
PLATYHELMINTHES							
Turbellaria							
<i>Polycladida</i>		16		4			6
PORIFERA							108
<i>Leucosolenia</i> sp.							
PROTOZOA							
Foraminifera						7	36
PLANTS - Total wet weight all plants						<0.01g	
ALGAE, unid.							
CHLOROPHYCOPHYTA CHLOROPHYCEAE							
Uvales							
<i>Enteromorpha</i> sp.							
<i>Ulva</i> sp.							
PHAEOPHYCOPHYTA PHAEOPHYCEAE							
<i>Ectocarpales-Ectocarpus</i> sp.							
RHODOPHYCOPHYTA FLORIDEOPHYCEAE							
<i>Ceramiales-Polysiphonia</i> sp.			≤0.04g				≤0.04g

## SETTLING RACK DATA

1977-1978

STATION MDR-6

Aug Oct Dec Feb Apr Jun

## ANNELIDA POLYCHAETA

## Capitellidae

*Capitella capitata*

4 20

3 2

## Chaetopteridae

*Chaetopterus variopedatus**Phyllochaetopterus limiculus*

## Chrysopetalidae

*Paleonotus bellis*

## Cirratulidae

*Caulieriella alata**Caulieriella hamata**Chaetozone corona**Tharyx* sp.

## Cossuridae

*Cossura candida*

## Ctenodrilidae

*Ctenodrilus serratus*

4

7 37

## Dorvilleidae

*Ophryotrocha puerilis*

16 6

2

*Schistomerings longicornis*

1

## Hesionidae

*Cyptis brevipalpa**Ophiodromus pugettensis*

## Nereidae

*Neanthes arenaceodentata**Platynereis bicanaliculata*

4

## Opheliidae

*Armandia bioculata**Polyopthalmus pictus*

1

## Pectinariidae

*Pectinaria* sp.

## Phyllodocidae

*Anaitides williamsi**Eulalia aviculifera**Eulalia* sp.*Eumida sanguinea*

## Polynoidae

*Halosydna brevisetosa**Harmothoe imbricata*

## Sabellariidae

*Sabellaria alcocki**Sabellaria* sp.

## Sabellidae

*Sabella* sp.

20

## Serpulidae

*Eupomatus gracilis**Hydroides pacificus*

4312 351

1 6798

## Spionidae

*Polydora ligni*

44 13

6 30

*Polydora limicola*

8

*Polydora socialis*

2

*Polydora* sp.*Prionospio cirrifera*

1

19

## SETTLING RACK DATA

1977-1978

STATION MDR-6

	Aug	Oct	Dec	Feb	Apr	Jun
<b>POLYCHAETA (cont.)</b>						
<b>Spionidae (cont.)</b>						
<i>Prionospio heterobranchia</i>						
<i>newportensis</i>						
<i>Prionospio</i> sp.						
<i>Pseudopolydora paucibranchiata</i>						6
<i>Spiophanes</i> sp.						
<i>Streblospio benedicti</i>						
<i>Spirorbidae, unid.</i>	672	292		1	229	
<i>Syllidae</i>	52	13		3	79	49
<i>Autolytus</i> sp.						
<i>Brania</i> sp.						
<i>Eusyllis assimilis</i>						
<i>Eusyllis</i> sp.						
<i>Exogone lourei</i>						
<i>Exogone</i> sp.						
<i>Typesyllis pulchra</i>						
<i>Typosyllis</i> sp.						
<b>ANNELIDA OLIGOCHAETA</b>						
<b>ARTHROPODA CRUSTACEA</b>						
<b>Amphipoda</b>						
<i>Caprellidea</i>			4			
<i>Aeginellidae</i>						
<i>Mayerella banksia</i>						
<i>Caprellidae</i>						
<i>Caprella californica</i>	20	2				1
<i>Caprella equilibra</i>		6				
<i>Caprella verrucosa</i>		1				
<i>Caprella</i> sp.					1	144
<i>Gammaridea, unid.</i>						
<i>Aoridae</i>						
<i>Aorides columbiae</i>						
<i>Amphilochidae</i>						
<i>Gitanopsis vilordes</i>						
<i>Ampithoidae</i>						
<i>Amphithoe plumulosa</i>						
<i>Amphithoe</i> sp.						
<i>Bateidae</i>						
<i>Bata transversa</i>						
<i>Corophiidae</i>						
<i>Corophium acherusicum</i>	8	1			25	24
<i>Ericthonius brasiliensis</i>	108	144				125
<i>Ericthonius hunteri</i>						
<i>Ericthonius</i> sp.						
<i>Eusiridae</i>						
<i>Pontogenia rostrata</i>						
<i>Gammaridae</i>						
<i>Elasmopus rapax</i>	80	65		4	13	50
<i>Maera simile</i>						
<i>Melita sulca</i>						
<i>Hyalidae</i>						
<i>Hyale frequens</i>						
<i>Hyale nigra</i>						

## SETTLING RACK DATA

1977-1978

STATION MDR-6

	Aug	Oct	Dec	Feb	Apr	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Gammaridea (cont.)						
Isaeidae						
<i>Gammaropsis thompsoni</i>						
Ischyroceridae						
<i>Jassa falcata</i>			2		1	
<i>Microjassa litotes</i>						1
Leucothoidae						
<i>Leucothoe alata</i>						
Podoceridae						
<i>Podocerus brasiliensis</i>						
<i>Podocerus cristatus</i>			72	44		
<i>Podocerus</i> sp.					4	30
Stenothoidae						
<i>Stenothoe valida</i>				1		
<i>Stenothoe</i> sp.						
Copepoda	92	26		136	100	38
Decapoda, unid.						
Decapod larvae						
Brachyura (crabs)						
Brachyura larvae (megalops)						
Grapsidae						
<i>Hemigrapsus oregonensis</i>						
<i>Pachygrapsus crassipes</i>						
Majidae						
<i>Loxorhynchus</i> sp.						
Caridea (shrimp)						
<i>Lysmata californica</i>						
Isopoda						
Arthuridae						
<i>Paranthura elegans</i>						
Ianiridae, unid.						
<i>Ianiropsis</i> sp.						
Idoteidae, unid.						
Jaeropsidae						
<i>Jaeropsis</i> sp.						
Limnoridae						
<i>Limnoria tripunctata</i>			1		1	
Munnidae			1			
<i>Munna</i> sp.						3
Sphaeromatidae			1			
<i>Paracerceis sculpta</i>	32	144		22	27	21
Mysidacea (Mysids)						
Ostracoda	8				1	7
Tanaidacea						
<i>Anatanais normani</i>	124	64			121	79
<i>Leptochelia dubia</i>						
<i>Leptochelia</i> sp.		4				
Thoracica (Barnacles)			1			
<i>Balanus amphitrite</i>						
<i>Balanus tintinnabulum</i>						
<i>Balanus</i> sp.						
<i>Chthamalus fissus</i>					8	
<i>Chthamalus</i> sp.						

## SETTLING RACK DATA

1977-1978

STATION MDR-6

	Aug	Oct	Dec	Feb	Apr	Jun
ARTHROPODA PYCNOGONIDA						
ASCHELMINTHES Nematoda			2			3
BRYOZOA (Counts=# of colonies)						
Cheilostomata, unid.						
Bicellariellidae						
<i>Bugula neritina</i>		1				
<i>Bugula stolonifera</i>			1			
(= <i>B. californica</i> )						
Celleporidae						
<i>Celleporaria brunnea</i>	5		5			
Cheiloporinidae						
<i>Cryptosula pallasiana</i>						
<i>Watersipora arcuata</i>			3			
Membraniporidae						
<i>Membranipora isabellaeana</i>						
(= <i>M. villosa</i> )						
<i>Membranipora membranacea</i>						
<i>Membranipora tenuis</i>						
<i>Membranipora tuberculata</i>						
Scrupariidae						
<i>Scruparia ambigua</i>						
Thalamoporellidae						
<i>Thalamoporella californica</i>						
Ctenostomata						
Vesiculariidae						
<i>Zoobotryon verticillatum</i>						
CHORDATA						
Asciidiacea						
Aplousobranchia						
<i>Diplosoma macdonaldi</i> (= <i>pizoni</i> )						0.03g
Phlebobranchia						
<i>Ciona intestinalis</i>	1332	172		1	129	373
Stolidobranchia						
<i>Botryllus</i> sp.	0.76g	0.32g				0.02g
CNIDARIA						
Anthozoa (Sea anemones)						
Hydrozoa-hydroida						
Campanulariidae						
<i>Obelia</i> sp.						
Plumulariidae	<0.04g	<0.01g			<0.01g	
<i>Aglaophenia</i> sp.						
Tubulariidae						
<i>Tubularia</i> sp.						
ECHINODERMATA						
Echinoidea (Sea urchin)						
MOLLUSCA						
Gastropoda						
Archaeogastropoda, unid.						
Acmaeidae (limpets)						
Atyidae						
<i>Haminoea</i> sp.						



## SETTLING RACK DATA

1977-1978

STATION MDR-7

	Aug	Oct	Dec	Feb	Apr	Jun
<b>ANNELIDA POLYCHAETA</b>						
<b>Capitellidae</b>						
<i>Capitella capitata</i>				2	1	1
<b>Chaetopteridae</b>						
<i>Chaetopterus variopedatus</i>						
<i>Phyllochaetopterus limiculus</i>						
<b>Chrysopetalidae</b>						
<i>Paleonotus bellis</i>						
<b>Cirratulidae</b>						1
<i>Caulleriella alata</i>						
<i>Caulleriella hamata</i>	4					
<i>Chaetozone corona</i>						
<i>Tharyx sp.</i>						
<b>Cossuridae</b>						
<i>Cossura candida</i>						
<b>Ctenodrilidae</b>						
<i>Ctenodrilus serratus</i>				2	26	
<b>Dorvilleidae</b>						
<i>Ophryotrocha puerilis</i>						4
<i>Schistomerings longicornis</i>						
<b>Hesionidae</b>						
<i>Gyptis brevipalpa</i>						
<i>Ophiadromus pugettensis</i>						
<b>Nereidae</b>						
<i>Neanthes arenaceodentata</i>						
<i>Platynereis bicanaliculata</i>						3
<b>Opheliidae</b>						
<i>Armandia bioculata</i>						
<i>Polyopthalmus pictus</i>						2
<b>Pectinariidae</b>						
<i>Pectinaria sp.</i>						
<b>Phyllodocidae</b>						
<i>Anaitides williamsi</i>						
<i>Eulalia aviculifera</i>						
<i>Eulalia sp.</i>						
<i>Eumida sanguinea</i>						
<b>Polynoidae</b>						
<i>Halosydna brevisetosa</i>						1
<i>Harmothoe imbricata</i>						
<b>Sabellariidae</b>						
<i>Sabellaria alcocki</i>						
<i>Sabellaria sp.</i>						
<b>Sabellidae</b>	12					1
<i>Sabella sp.</i>						
<b>Serpulidae</b>						
<i>Eupomatus gracilis</i>						
<i>Hydroides pacificus</i>	1508			1	2	1928
<b>Spionidae</b>						
<i>Polydora ligni</i>	16			1	28	101
<i>Polydora limicola</i>						
<i>Polydora socialis</i>	4					
<i>Polydora sp.</i>						
<i>Prionospio cirrifera</i>						

## SETTLING RACK DATA

1977-1978

STATION MDR-7

	Aug	Oct	Dec	Feb	Apr	Jun
POLYCHAETA (cont.)						
<i>Spionidae</i> (cont.)						
<i>Prionospio heterobranchia</i>						9
<i>newportensis</i>						
<i>Prionospio</i> sp.						
<i>Pseudopolydora paucibranchiata</i>						
<i>Spiophanes</i> sp.						
<i>Streblospio benedicti</i>						
<i>Spirorbidae</i> , unid.	936			1	19	166
<i>Syllidae</i>				16	35	58
<i>Autolytus</i> sp.						
<i>Brania</i> sp.						
<i>Eusyllis assimilis</i>						
<i>Eusyllis</i> sp.						
<i>Exogone lourei</i>						
<i>Exogone</i> sp.						
<i>Typosyllis pulchra</i>						
<i>Typosyllis</i> sp.						
ANNELEIDA OLIGOCHAETA						
ARTHROPODA CRUSTACEA						
<i>Amphipoda</i>						
<i>Caprellidea</i>						
<i>Aeginellidae</i>						
<i>Mayerella banksiae</i>						9
<i>Caprellidae</i>						
<i>Caprella californica</i>						9
<i>Caprella equilibra</i>						3
<i>Caprella verrucosa</i>						2
<i>Caprella</i> sp.						
<i>Gammaridea</i> , unid.				1		
<i>Aoridae</i>						
<i>Aorides columbiae</i>						
<i>Amphilochidae</i>						
<i>Gitanopsis vilordes</i>						
<i>Ampithoidae</i>						
<i>Amphithoe plumulosa</i>						
<i>Amphithoe</i> sp.						
<i>Bateidae</i>						
<i>Bata transversa</i>						
<i>Corophiidae</i>						
<i>Corophium acherusicum</i>	12			16	12	15
<i>Ericthonius brasiliensis</i>	44					1
<i>Ericthonius hunteri</i>						
<i>Ericthonius</i> sp.						
<i>Grandidierella japonica</i>						1
<i>Eusiridae</i>						
<i>Pontogenia rostrata</i>						
<i>Gammaridae</i>						
<i>Elasmopus rapax</i>	60			19	6	4
<i>Maera simile</i>						
<i>Melita sulca</i>						
<i>Hyalidae</i>						
<i>Hyale frequens</i>						
<i>Hyale nigra</i>						

## SETTLING RACK DATA

1977-1978

STATION MDR-7

	Aug	Oct	Dec	Feb	Apr	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Gammaridea (cont.)						
Isaeidae						
<i>Gammaropsis thompsoni</i>						
Ischyroceridae						
<i>Jassa falcata</i>				1	2	14
<i>Microjassa litotes</i>						
Leucothoidae						
<i>Leucothoe alata</i>						
Podoceridae						
<i>Podocerus brasiliensis</i>	4					
<i>Podocerus cristatus</i>				1	3	18
<i>Podocerus</i> sp.						
Stenothoidae						
<i>Stenothoe valida</i>						1
<i>Stenothoe</i> sp.						
Copepoda	48					
Decapoda, unid.				934	49	116
Decapod larvae						
Brachyura (crabs)						
Brachyura larvae (megalops)						
Grapsidae						
<i>Hemigrapsus oregonensis</i>						1
<i>Pachygrapsus crassipes</i>						
Majidae						
<i>Loxorhynchus</i> sp.						
Caridea (shrimp)						
<i>Lysmata californica</i>						
Isopoda						
Arthuridae						
<i>Paranthura elegans</i>						
Ianiidae, unid.						
<i>Ianiropsis</i> sp.						
Idoteidae, unid.						
Jaeropsidae						
<i>Jaeropsis</i> sp.						
Limnoridae						
<i>Limnoria tripunctata</i>	4			2	5	
Munnidae						
<i>Munna</i> sp.						
Sphaeromatidae						
<i>Paracerceis sculpta</i>				12	2	8
Mysidacea (Mysids)						
Ostracoda						
Tanaidacea						
<i>Anatanais normani</i>						8
<i>Leptochelia dubia</i>						
<i>Leptochelia</i> sp.						
Thoracica (Barnacles)						
<i>Balanus amphitrite</i>						
<i>Balanus tintinnabulum</i>						
<i>Balanus</i> sp.						
<i>Cthamalus fissus</i>						
<i>Cthamalus</i> sp.						
	24					

SETTLING RACK DATA	1977-1978	STATION MDR-7				
		Aug.	Oct	Dec	Feb	Apr
<b>ARTHROPODA PYCNOCONIDA</b>						
<b>ASCHELMINTHES Nematoda</b>					2	5
<b>BRYOZOA (Counts = # of colonies)</b>						32
Cheilostomata, unid.						
Bicellariellidae						
<i>Bugula neritina</i>						
<i>Bugula stolonifera</i>						
(= <i>B. californica</i> )						
Celleporidae						
<i>Celleporaria brunnea</i>	1					
Cheiloporinidae						
<i>Cryptosula pallasiana</i>	1					
<i>Watersipora arcuata</i>	4					
Membraniporidae						
<i>Membranipora isabelliana</i>						
(= <i>M. villosa</i> )						
<i>Membranipora membranacea</i>						
<i>Membranipora tenuis</i>						
<i>Membranipora tuberculata</i>						
Scrupariidae						
<i>Seruparia ambigua</i>						
Thalamoporellidae						
<i>Thalamoporella californica</i>						
Ctenostomata						
Vesiculariidae						
<i>Zoobotryon verticillatum</i>						
<b>CHORDATA</b>						
Asciidiacea						
Aplousobranchia						
<i>Diplosoma macdonaldi</i> (= <i>pizoni</i> )	<0.04g					
Phlebobranchia						
<i>Ciona intestinalis</i>	116				5	59
Stolidobranchia						148
<i>Botryllus</i> sp.	0.28g					
<b>CNIDARIA</b>					0.02g	0.01g
Anthozoa (Sea anemones)						
Hydrozoa-hydroida						
Campanulariidae						
<i>Obelia</i> sp.					<0.01g	0.02g
Plumulariidae						0.01g
<i>Aglaophenia</i> sp.						
Tubulariidae						
<i>Tubularia</i> sp.					<0.01g	
<b>ECHINODERMATA</b>						
Echinoidea (Sea urchin)						
<b>MOLLUSCA</b>						
Gastropoda						
Archaeogastropoda, unid.						
Acmaeidae (limpets)						
Atyidae						
<i>Haminoea</i> sp.						

## SETTLING RACK DATA

1977-1978

STATION MDR-7

Aug Oct Dec Feb Apr Jun

<b>MOLLUSCA (cont.)</b>						
Calyptidae						
<i>Crepidula onyx</i>						
<i>Crepidula</i> sp.						
Cephalaspidea, unid.						
Columbellidae						
<i>Mitrella carinata</i>						
Nudibranchia, unid.						1
Scaphandridae						
<i>Acteocina harpa</i>						
<i>Acteocina</i> sp.						
Pelecypoda	12					3
Hiatellidae						
<i>Hiatella arctica</i>						
Mytilidae						
<i>Mytilus edulis</i>					10	1
Pectinidae						
<i>Leptopecten latiauratus</i>						
NEMERTEA						
PHORONIDA						
PLATYHELMINTHES						
Turbellaria						
<i>Polycladida</i>	4				4	4
PORIFERA						13
<i>Leucosolenia</i> sp.						
PROTOZOA						
Foraminifera					2	1
PLANTS - Total wet weight all plants					2	2
ALGAE, unid.						0.01g
CHLOROPHYCOPHYTA CHLOROPHYCEAE						
Uvales						
<i>Enteromorpha</i> sp.						
<i>Ulva</i> sp.						
PHAEOPHYCOPHYTA PHAEOPHYCEAE						
Ectocarpales- <i>Ectocarpus</i> sp.						
RHODOPHYCOPHYTA FLORIDEOPHYCEAE						
Ceramiales- <i>Polysiphonia</i> sp.						

SETTLING RACK DATA

1977-1978

STATION MDR-8

Aug Oct Dec Feb Apr Jun

## ANNELIDA POLYCHAETA

## Capitellidae

*Capitella capitata*

4

## Chaetopteridae

*Chaetopterus variopedatus**Phyllochaetopterus limicola*

## Chrysopetalidae

*Paleonotus bellis*

## Cirratulidae

*Caulleriella alata**Caulleriella hamata**Chaetozone corona**Tharyx* sp.

## Cossuridae

*Cossura candida*

## Ctenodrilidae

*Ctenodrilus serratus*

## Dorvilleidae

*Ophryotrocha puerilis*

20

4

*Schistomerings longicornis*

## Hesionidae

*Gyptis brevipalpa**Ophiodromus pugettensis*

2

## Nereidae

*Neanthes arenaceodentata**Platynereis bicanaliculata*

## Opheliidae

*Armandia bioculata**Polyopthalmus pictus*

## Pectinariidae

*Pectinaria* sp.

## Phyllodocidae

*Anaitides williamsi**Eulalia aviculifera**Eulalia* sp.*Eumida sanguinea*

## Polynoidae

*Halosydna brevisetosa**Harmothoe imbricata*

## Sabellariidae

*Sabellaria alcocki**Sabellaria* sp.

## Sabellidae

*Sabella* sp.

## Serpulidae

*Eupomatus gracilis**Hydroides pacificus*

16064 260

16924

## Spionidae

*Polydora ligni*

4

1

108

*Polydora limicola**Polydora socialis*

4

*Polydora* sp.*Prionospio cirrifera*

## SETTLING RACK DATA

1977-1978

STATION MDR-8

Aug Oct Dec Feb Apr Jun

POLYCHAETA (cont.)

## Spionidae (cont.)

- Prionospio heterobranchia*
- newportensis*
- Prionospio* sp.
- Pseudopolydora paucibranchiata*
- Spiophanes* sp.
- Streblospio benedicti*

## Spirorbidae, unid.

4

1

4

## Syllidae

- Autolytus* sp.
- Brania* sp.
- Eusyllis assimilis*
- Eusyllis* sp.
- Exogone ligurei*
- Exogone* sp.
- Typosyllis pulchra*
- Typosyllis* sp.

## ANNELIDA OLIGOCHAETA

## ARTHROPODA CRUSTACEA

## Amphipoda

## Caprellidea

- Aeginellidae*
- Mayerella banksia*
- Caprellidae*
- Caprella californica*
- Caprella equilibra*
- Caprella verrucosa*
- Caprella* sp.

20

1

1

4

## Gammaridea, unid.

## Aoridae

- Aorida columbiae*
- Amphilochidae*
- Gitanopsis vilordes*

## Ampithoidae

- Ampithoe plumulosa*
- Ampithoe* sp.

## Bateidae

- Bata transversa*

## Corophiidae

- Corophium acherusicum*
- Ericthonius brasiliensis*
- Ericthonius hunteri*
- Ericthonius* sp.

36

23

210

76

60

6

## Eusiridae

- Pontogenia rostrata*

## Gammaridae

- Blasmapus rapax*
- Maera simile*
- Melita sulca*

28

112

42

14

## Hyalidae

- Hyale frequens*
- Hyale nigra*

## SETTLING RACK DATA

1977-1978

STATION MDR-8

	Aug	Oct	Dec	Feb	Apr	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Gammaridea (cont.)						
Isaeidae						
<i>Gammareopsis thompsoni</i>						
Ischyroceridae						
<i>Jassa falcata</i>			4			4
<i>Microjassa litotes</i>						
Leucothoidae						
<i>Leucothoe alata</i>						
Podoceridae						
<i>Podocerus brasiliensis</i>						
<i>Podocerus cristatus</i>	16	212			38	
<i>Podocerus</i> sp.						
Stenothoidae						
<i>Stenothoe valida</i>						6
<i>Stenothoe</i> sp.						
Copepoda	60				16	
Decapoda, unid.						54
Decapod larvae						
Brachyura (crabs)						
<i>Brachyura</i> larvae (megalops)						
Grapsidae						
<i>Hemigrapsus oregonensis</i>						
<i>Pachygrapsus crassipes</i>						
Majidae						
<i>Loxorhynchus</i> sp.						
Caridea (shrimp)						
<i>Lysmata californica</i>						
Isopoda						
Arthuridae						
<i>Paranthura elegans</i>						
Ianiridae, unid.						
<i>Ianiropsis</i> sp.						
Idoteidae, unid.						
Jaeropsidae						
<i>Jaeropsis</i> sp.						
Limnoridae						
<i>Limnoria tripunctata</i>				1		
Munnidae						
<i>Munna</i> sp.						
Sphaeromatidae						
<i>Paracarceis sculpta</i>	52	388		81		12
Mysidacea (Mysids)						
Ostracoda						
Tanaidacea						
<i>Anatanais normani</i>	20			1		
<i>Leptochelia dubia</i>						
<i>Leptochelia</i> sp.						
Thoracica (Barnacles)	4					
<i>Balanus amphitrite</i>						2
<i>Balanus tintinnabulum</i>						
<i>Balanus</i> sp.						
<i>Cthamalus fissus</i>						
<i>Cthamalus</i> sp.						

## SETTLING RACK DATA

1977-1978

STATION MDR-8

Aug Oct Dec Feb Apr Jun

## ARTHROPODA PYCNOGONIDA

## ASCHELMINTHES Nematoda

## BRYOZOA (Counts=# of colonies)

Cheilostomata, unid.

## Bicellariellidae

*Bugula neritina*

3

*Bugula stolonifera*(*=B. californica*)

## Celleporidae

*Celleporaria brunnea*

## Cheiloporinidae

*Cryptosula pallasiana**Watersipora arcuata*

1

## Membraniporidae

*Membranipora isabellleana*(*=M. villosa*)*Membranipora membranacea**Membranipora tenuis**Membranipora tuberculata*

## Scrupariidae

*Scruparia ambigua*

## Thalamoporellidae

*Thalamoporella californica*

## Ctenostomata

## Vesiculariidae

*Zoobotryon verticillatum*

## CHORDATA

## Asciidiacea

## Aplousobranchia

*Diplosoma macdonaldi* (*=pizoni*)

## Phlebobranchia

*Ciona intestinalis*

440 324

6

204

## Stolidobranchia

*Botryllus* sp.

## CNIDARIA

## Anthozoa (Sea anemones)

## Hydrozoa-hydroida

## Campanulariidae

*Obelia* sp.

## Plumulariidae

*Aglaophenia* sp.

## Tubulariidae

*Tubularia* sp.

## ECHINODERMATA

## Echinoidea (Sea urchin)

## MOLLUSCA

## Gastropoda

## Archaeogastropoda, unid.

## Acmaeidae (limpets)

## Atyidae

*Haminoea* sp.

SETTLING RACK DATA

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1977-1978

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STATION MDR-8

Aug Oct Dec Feb Apr Jun

MOLLUSCA (cont.)

*Calyptaeidae*  
*Crepidula onyx*  
*Crepidula* sp.  
*Cephalaspidea*, unid.  
*Columbellidae*  
*Mitrella carinata*  
*Nudibranchia*, unid.  
*Scaphandridae*  
*Acteocina harpa*  
*Acteocina* sp.

*Pelecypoda*  
*Hiatellidae*  
*Hiatella arctica*  
*Mytilidae*  
*Mytilus edulis*  
*Pectinidae*  
*Leptopecten latiauratus*

## NEMERTEA

## PHORONIDA

## PLATYHELMINTHES

*Turbellaria**Polycladida*

## PORIFERA

*Leucosolenia* sp.

## PROTOZOA

*Foraminifera*

## PLANTS - Total wet weight all plants

ALGAE, unid.

## CHLOROPHYCOPHYTA CHLOROPHYCEAE

*Uvales**Enteromorpha* sp.*Ulva* sp.

## PHAEOPHYCOPHYTA PHAEOPHYCEAE

*Ectocarpales-Ectocarpus* sp.

## RHODOPHYCOPHYTA FLORIDEOPHYCEAE

*Ceramiales-Polysiphonia* sp.

5

8

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SETTLING RACK DATA

1977-1978

STATION MDR-9

Aug Oct Dec Feb Apr Jun

## ANNELIDA POLYCHAETA

## Capitellidae

*Capitella capitata*

8

## Chaetopteridae

*Chaetopterus variopedatus**Phyllochaetopterus limicola*

## Chrysopetalidae

*Paleonotus bellis*

## Cirratulidae

*Caulieriella alata**Caulieriella hamata**Chaetozone corona**Tharyx* sp.

## Cossuridae

*Cossura candida*

## Ctenodrilidae

*Ctenodrilus serratus*

## Dorvilleidae

*Ophryotrocha puerilis*

3

1

4

*Schistomeringos longicornis*

1

## Hesionidae

*Gyptis brevipalpa**Ophiodromus pugettensis*

## Nereidae

*Neanthes arenaceodentata**Platynereis bicanaliculata*

## Opheliidae

*Armandia bioculata**Polyopthalmus pictus*

## Pectinariidae

*Pectinaria* sp.

## Phyllodocidae

*Anaitides williamsi**Eulalia aviculifera**Eulalia* sp.*Eumida sanguinea*

## Polynoidae

*Halosydna brevisetosa**Harmothoe imbricata*

## Sabellariidae

*Sabellaria alcocki**Sabellaria* sp.

## Sabellidae

*Sabella* sp.

## Serpulidae

*Eupomatus gracilis**Hydroïdes pacificus*

5086 10

1 2792

## Spionidae

*Polydora ligni*

12 4

13 32

*Polydora limicola**Polydora socialis**Polydora* sp.

1

*Prionospio cirrifera*

## SETTLING RACK DATA

1977-1978

STATION MDR-9

	Aug	Oct	Dec	Feb	Apr	Jun
<b>POLYCHAETA (cont.)</b>						
<b>Spionidae (cont.)</b>						
<i>Prionospio heterobranchia</i>						
<i>newportensis</i>						
<i>Prionospio</i> sp.						
<i>Pseudopolydora paucibranchiata</i>						
<i>Spiophanes</i> sp.						
<i>Streblospio benedicti</i>						
<b>Spirorbidae, unid.</b>	184	94		35	16	
<b>Syllidae</b>				39	14	
<i>Autolytus</i> sp.						
<i>Brania</i> sp.						
<i>Eusyllis assimilis</i>						
<i>Eusyllis</i> sp.						
<i>Exogone lourei</i>						
<i>Exogone</i> sp.						
<i>Typosyllis pulchra</i>		1				
<i>Typosyllis</i> sp.						
<b>ANNELIDA OLIGOCHAETA</b>						
<b>ARTHROPODA CRUSTACEA</b>						
<b>Amphipoda</b>						
<b>Caprellidea</b>						
<i>Aeginellidae</i>						
<i>Mayerella banksia</i>						
<i>Caprellidae</i>						
<i>Caprella californica</i>		1		1		
<i>Caprella equilibra</i>					3	
<i>Caprella verrucosa</i>			1			
<i>Caprella</i> sp.						
<b>Gammaridea, unid.</b>					10	
<b>Aoridae</b>						
<i>Aorides columbiae</i>						
<b>Amphilochidae</b>						
<i>Gitanopsis vilordes</i>						
<b>Ampithoidae</b>						
<i>Amphithoe plumulosa</i>						
<i>Amphithoe</i> sp.						
<b>Bateidae</b>						
<i>Bata transversa</i>						
<b>Corophiidae</b>						
<i>Corophium acherusicum</i>	4	3		1	4	12
<i>Ericthonius brasiliensis</i>	12	1				
<i>Ericthonius hunteri</i>						
<i>Ericthonius</i> sp.						
<b>Eusiridae</b>						
<i>Pontogenia rostrata</i>						
<b>Gammaridae</b>						
<i>Elasmopus rapax</i>	72	138		5	2	
<i>Maera simile</i>						
<i>Melita sulca</i>						
<b>Hyalidae</b>						
<i>Hyale frequens</i>						
<i>Hyale niara</i>						

## SETTLING RACK DATA

1977-1978

STATION MDR-9

	Aug	Oct	Dec	Feb	Apr	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Gammaridea (cont.)						
Isaeidae						
<i>Gammaropsis thompsoni</i>						
Ischyroceridae						
<i>Jassa falcata</i>			2		1	4
<i>Microjassa litotes</i>						
Leucothoidae						
<i>Leucothoe alata</i>						
Podoceridae						
<i>Podocerus brasiliensis</i>			23			
<i>Podocerus cristatus</i>	8		48			
<i>Podocerus</i> sp.						
Stenothoidae						
<i>Stenothoe valida</i>						
<i>Stenothoe</i> sp.						
Copepoda			5		11	25
Decapoda, unid.						72
Decapod larvae						
Brachyura (crabs)						
Brachyura larvae (megalops)						
Grapsidae						
<i>Hemigrapsus oregonensis</i>						2
<i>Pachygrapsus crassipes</i>						
Majidae						
<i>Loxorhynchus</i> sp.						
Caridea (shrimp)						
<i>Lysmata californica</i>						
Isopoda						
Arthuridae						
<i>Paranthura elegans</i>						
Ianiidae, unid.						
<i>Ianiropsis</i> sp.						
Idoteidae, unid.						
Jaeropsidae						
<i>Jaeropsis</i> sp.						
Limnoridae						
<i>Limnoria tripunctata</i>						
Munnidae						
<i>Munna</i> sp.						
Sphaeromatidae						
<i>Paracerceis sculpta</i>	8	140		4	4	2
Mysidacea (Mysids)						
Ostracoda						4
Tanaidacea						
<i>Anatanais normani</i>		2			1	14
<i>Leptochelia dubia</i>						
<i>Leptochelia</i> sp.						
Thoracica (Barnacles)						
<i>Balanus amphitrite</i>						
<i>Balanus tintinnabulum</i>						
<i>Balanus</i> sp.		16				
<i>Chthamalus fissus</i>						
<i>Chthamalus</i> sp.					20	

SETTLING RACK DATA	1977-1978	STATION MDR-9				
		Aug	Oct	Dec	Feb	Apr
ARTHROPODA PYCNOGONIDA						
ASCHELMINTHES Nematoda						
BRYOZOA (Counts=# of colonies)						
Cheilostomata, unid.						
Bicellariellidae						
<i>Bugula neritina</i>						
<i>Bugula stolonifera</i>						
(=B. californica)						
Celloporidae						
<i>Celloporaria brunnea</i>	1					
Cheiloporinidae						
<i>Cryptosula pallasiana</i>					2	
<i>Watersipora arcuata</i>	2					
Membraniporidae						
<i>Membranipora isabellaeana</i>						
(=M. villosa)						
<i>Membranipora membranacea</i>						
<i>Membranipora tenuis</i>						
<i>Membranipora tuberculata</i>						
Scrupariidae						
<i>Scruparia ambigua</i>						
Thalamoporellidae						
<i>Thalamoporella californica</i>						
Ctenostomata						
Vesiculariidae						
<i>Zoobotryon verticillatum</i>						
CHORDATA						
Asciidiacea						
Aplousobranchia						
<i>Diplosoma macdonaldi</i> (=pizoni)						
Phlebobranchia						
<i>Ciona intestinalis</i>	4					
Stolidobranchia					21	138
<i>Botryllus</i> sp.	0.20g					144
CNIDARIA						
Anthozoa (Sea anemones)						
Hydrozoa-hydroida						2
Campanulariidae						
<i>Obelia</i> sp.						
Plumulariidae					<0.01g	0.06g
<i>Aglaophenia</i> sp.						0.02g
Tubulariidae						
<i>Tubularia</i> sp.						
ECHINODERMATA						
Echinoidea (Sea urchin)						
MOLLUSCA						
Gastropoda						
Archaeogastropoda, unid.						
Acmaeidae (limpets)						
Atyidae						
<i>Haminoea</i> sp.						

## SETTLING RACK DATA

1977-1978

STATION MDR-9

Aug Oct Dec Feb Apr Jun

MOLLUSCA (cont.)						
Calyptidae						
<i>Crepidula onyx</i>						
<i>Crepidula</i> sp.						
Cephalaspidea, unid.						
Columbellidae						
<i>Mitrella carinata</i>						
Nudibranchia, unid.						
Scaphandridae						
<i>Acteocina harpa</i>	4					
<i>Acteocina</i> sp.						
Pelecypoda					5	
Hiatellidae						
<i>Hiatella arctica</i>						
Mytilidae						
<i>Mytilus edulis</i>					3	
Pectinidae						
<i>Leptopecten latiauratus</i>						
NEMERTEA						2
PHORONIDA						
PLATYHELMINTHES						
Turbellaria						
<i>Polycladida</i>	4					
PORIFERA					2	16
<i>Leucosolenia</i> sp.						
PROTOZOA						
Foraminifera					4	2
PLANTS - Total wet weight all plants						
ALGAE, unid.						
CHLOROPHYCOPHYTA CHLOROPHYCEAE						
Uvales						
<i>Enteromorpha</i> sp.						
<i>Ulva</i> sp.						
PHAEOPHYCOPHYTA PHAEOPHYCEAE						
<i>Ectocarpales-Ectocarpus</i> sp.						
RHODOPHYCOPHYTA FLORIDEOPHYCEAE						
<i>Ceramiales-Polysiphonia</i> sp.				≤0.01g		

SETTLING RACK DATA

1977-1978

STATION MDR-11

	Aug	Oct	Dec	Feb	Apr	Jun
<b>ANNELIDA POLYCHAETA</b>						
Capitellidae						
<i>Capitella capitata</i>			4		3	1
Chaetopteridae						
<i>Chaetopterus variopedatus</i>						
<i>Phyllochaetopterus limiculus</i>						
Chrysopetalidae						
<i>Paleonotus bellis</i>						
Cirratulidae						
<i>Caulieriella alata</i>						
<i>Caulieriella hamata</i>						
<i>Chaetozone corona</i>						
<i>Tharyx</i> sp.						
Cossuridae						
<i>Cossura candida</i>						
Ctenodrilidae						
<i>Ctenodrilus serratus</i>	8					3
Dorvilleidae						
<i>Ophryotrocha puerilis</i>		19			1	3
<i>Schistomerings longicornis</i>						4
Hesionidae						
<i>Gyptis brevipalpa</i>						
<i>Ophiodromus pugettensis</i>	4					
Nereidae						
<i>Neanthes arenaceodentata</i>						
<i>Platynereis bicanaliculata</i>					1	
Opheliidae						
<i>Armandia bioculata</i>						
<i>Polyopthalmus pictus</i>						
Pectinariidae						
<i>Pectinaria</i> sp.						
Phyllodocidae						4
<i>Anaitides williamsi</i>						
<i>Eulalia aviculifera</i>						
<i>Eulalia</i> sp.					1	
<i>Eunida sanguinea</i>						
Polynoidae					1	
<i>Halosydna brevisetosa</i>						
<i>Harmonothoe imbricata</i>						
Sabellariidae						
<i>Sabellaria alcocki</i>						
<i>Sabellaria</i> sp.						
Sabellidae						
<i>Sabella</i> sp.						
Serpulidae						
<i>Eupomatus gracilis</i>						
<i>Hydroides pacificus</i>	9292	157			5	4512
Spionidae						
<i>Polydora ligni</i>	40	1			17	248
<i>Polydora limicola</i>						
<i>Polydora socialis</i>		1				
<i>Polydora</i> sp.					1	
<i>Prionospio cirrifera</i>						

	Aug	Oct	Dec	Feb	Apr	Jun
POLYCHAETA (cont.)						
<i>Spionidae</i> (cont.)						
<i>Prionospio heterobranchia</i>						
<i>newportensis</i>						
<i>Prionospio</i> sp.						
<i>Pseudopolydora paucibranchiata</i>						
<i>Spiophanes</i> sp.						
<i>Streblospio benedicti</i>				1		
<i>Spirorbidae</i> , unid.	20	34		1	41	4
<i>Syllidae</i>				4	69	88
<i>Autolytus</i> sp.						
<i>Brania</i> sp.						
<i>Eusyllis assimilis</i>						
<i>Eusyllis</i> sp.						
<i>Exogone lourei</i>						
<i>Excogone</i> sp.						
<i>Typosyllis pulchra</i>						
<i>Typosyllis</i> sp.						
ANNELEIDA OLIGOCHAETA						
ARTHROPODA CRUSTACEA						
<i>Amphipoda</i>						
<i>Caprellidea</i>		60				
<i>Aeginellidae</i>						
<i>Mayerella banksia</i>						12
<i>Caprellidae</i>						
<i>Caprella californica</i>			100		1	
<i>Caprella equilibra</i>			1		1	1
<i>Caprella verrucosa</i>			2			
<i>Caprella</i> sp.						
<i>Gammaridea</i> , unid.						
<i>Aoridae</i>						
<i>Aorides columbiae</i>						
<i>Amphilochidae</i>						
<i>Gitanopsis vilordes</i>						
<i>Ampithoidae</i>						
<i>Amphithoe plumulosa</i>						
<i>Amphithoe</i> sp.						
<i>Bateidae</i>						
<i>Bata transversa</i>						
<i>Corophiidae</i>						
<i>Corophium acherusicum</i>	20	7		25	36	216
<i>Ericthonius brasiliensis</i>	76	23				12
<i>Ericthonius hunteri</i>						
<i>Ericthonius</i> sp.						
<i>Eusiridae</i>						
<i>Pontogenia rostrata</i>						
<i>Gammaridae</i>						
<i>Elasmopus rapax</i>	28	132		3	24	76
<i>Maera simile</i>						
<i>Melita sulca</i>						
<i>Hyalidae</i>						
<i>Hyale frequens</i>						
<i>Hyale nigra</i>						

## SETTLING RACK DATA

1977-1978

STATION MDR-11

	Aug	Oct	Dec	Feb	Apr	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Gammaridea (cont.)						
Isaeidae						
<i>Gammaropsis thompsoni</i>						
Ischyroceridae						
<i>Jassa falcata</i>			4		1	4
<i>Microjassa litotes</i>						
Leucothoidae						
<i>Leucothoe alata</i>						
Podoceridae						
<i>Podocerus brasiliensis</i>						
<i>Podocerus cristatus</i>	112	797		4	5	32
<i>Podocerus</i> sp.						
Stenothoidae						
<i>Stenothoe valida</i>					16	
<i>Stenothoe</i> sp.						
Copepoda	20	29		59	45	16
Decapoda, unid.						
Decapod larvae						
Brachyura (crabs)						
Brachyura larvae (megalops)						
Grapsidae						
<i>Hemigrapsus oregonensis</i>						
<i>Pachygrapsus crassipes</i>						
Majidae						
<i>Loxorhynchus</i> sp.						
Caridea (shrimp)						
<i>Lysmata californica</i>						
Isopoda						
Arthuridae						
<i>Paranthura elegans</i>						
Ianiidae, unid.						
<i>Ianiropsis</i> sp.						
Idoteidae, unid.						
Jaeropsidae						
<i>Jaeropsis</i> sp.						
Limnoriidae						
<i>Limnoria tripunctata</i>				1	4	
Munnidae						
<i>Munna</i> sp.						
Sphaeromatidae						
<i>Paracerceis sculpta</i>	76	615		12	16	56
Mysidacea (Mysids)						
Ostracoda				5	39	
Tanaidacea						
<i>Anatanais normani</i>					33	
<i>Leptochelia dubia</i>						
<i>Leptochelia</i> sp.						
Thoracica (Barnacles)					28	
<i>Balanus amphitrite</i>	4	1				
<i>Balanus tintinnabulum</i>						
<i>Balanus</i> sp.						
<i>Cthamalus fissus</i>						
<i>Cthamalus</i> sp.						

SETTLING RACK DATA	1977-1978	STATION MDR-11					
		Aug.	Oct	Dec	Feb	Apr	Jun
ARTHROPODA PYCNOGONIDA							
ASCHELMINTHES Nematoda							176
BRYOZOA (Counts=# of colonies)							
Cheilostomata, unid.							
Bicellariellidae							
<i>Bugula neritina</i>							
<i>Bugula stolonifera</i>							(=B. californica)
Celleporidae							
<i>Celleporaria brunnea</i>							
Cheiloporinidae							
<i>Cryptosula pallasiana</i>							
<i>Watersipora arcuata</i>							
Membraniporidae							
<i>Membranipora isabelleana</i>							
(=M. villosa)							
<i>Membranipora membranacea</i>							
<i>Membranipora tenuis</i>							
<i>Membranipora tuberculata</i>							
Scrupariidae							
<i>Scruparia ambigua</i>							
Thalamoporellidae							
<i>Thalamoporella californica</i>							
Ctenostomata							
Vesiculariidae							
<i>Zoobotryon verticillatum</i>			1				
CHORDATA							
Asciidiacea							
Aplousobranchia							
<i>Diplosoma macdonaldi</i> (=pizoni)							
Phlebobranchia							
<i>Ciona intestinalis</i>	532	17				13	194
Stolidobranchia							156
<i>Botryllus</i> sp.		3.16g					0.02g
CNIDARIA							
Anthozoa (Sea anemones)							
Hydrozoa-hydroida							
Campanulariidae							
<i>Obelia</i> sp.		<0.04g				0.01g	0.19g <0.04g
Plumulariidae							
<i>Aglaophenia</i> sp.							
Tubulariidae							
<i>Tubularia</i> sp.							<0.01g
ECHINODERMATA							
Echinoidea (Sea urchin)						1	
MOLLUSCA							
Gastropoda							
Archaeogastropoda, unid.							
Acmaeidae (limpets)							20
Atyidae							
<i>Haminoea</i> sp.							

SETTLING RACK DATA	1977-1978	Aug	Oct	Dec	Feb	Apr	Jun
MOLLUSCA (cont.)							
Calyptaeidae							
<i>Crepidula onyx</i>							
<i>Crepidula</i> sp.							
Cephalaspidea, unid.							
Columbellidae							
<i>Mitrella carinata</i>							
Nudibranchia, unid.				8			
Scaphandridae							
<i>Acteocina harpa</i>							
<i>Acteocina</i> sp.							
Pelecypoda		4				3	
Hiatellidae							
<i>Hiatella arctica</i>							
Mytilidae							
<i>Mytilus edulis</i>						4	
Pectinidae							
<i>Leptopecten latiauratus</i>							
NEMERTEA							
PHORONIDA							
PLATYHELMINTHES							
Turbellaria							
<i>Polycladia</i>						24	236
PORIFERA							
<i>Leucosolenia</i> sp.							
PROTOZOA							
Foraminifera							
PLANTS - Total wet weight all plants							
ALGAE, unid.							
CHLOROPHYCOPHYTA CHLOROPHYCEAE							
Uvales							
<i>Enteromorpha</i> sp.							
<i>Ulva</i> sp.							
PHAEOPHYCOPHYTA PHAEOPHYCEAE							
Ectocarpales- <i>Ectocarpus</i> sp.							
RHODOPHYCOPHYTA FLORIDEOPHYCEAE							
Ceramiales- <i>Polysiphonia</i> sp.							

SETTLING RACK DATA

1978-1979

STATION MDR-1

	Aug	Oct	Dec	Feb	Apr	Jun
<b>ANNELIDA POLYCHAETA</b>						
Capitellidae						
<i>Capitella capitata</i>						2
Chaetopteridae						
<i>Chaetopterus variopedatus</i>						2
<i>Phyllochaetopterus limiculus</i>						
Chrysopetalidae						
<i>Paleonotus bellis</i>					1	16
Cirratulidae						
<i>Caulieriella alata</i>						10
<i>Caulieriella hamata</i>						
<i>Chaetozone corona</i>						
<i>Tharyx</i> sp.						
Cossuridae						
<i>Cossura candida</i>						
Ctenodrilidae						
<i>Ctenodrilus serratus</i>				12		
Dorvilleidae						
<i>Ophryotrocha puerilis</i>						
<i>Schistomerings longicornis</i>						
Hesionidae						
<i>Gyptis brevipalpa</i>						
<i>Ophiodromus pugettensis</i>						
Nereidae						
<i>Neanthes arenaceodentata</i>						
<i>Platynereis bicanaliculata</i>			8	15	55	16
Opheliidae						
<i>Armandia bioculata</i>			292			
<i>Polyopthalmus pictus</i>	8			57	2	6
Pectinariidae						
<i>Pectinaria</i> sp.						
Phyllodocidae						
<i>Anaitides williamsi</i>						
<i>Eulalia aviculifera</i>						
<i>Eulalia</i> sp.					6	1
<i>Eumida sanguinea</i>						
Polynoidae					9	
<i>Halosydna brevisetosa</i>						
<i>Harmothoe imbricata</i>						
Sabellariidae						
<i>Sabellaria alcocki</i>						
<i>Sabellaria</i> sp.						
Sabellidae			4			
<i>Sabella</i> sp.						
Serpulidae						
<i>Eupomatus gracilis</i>						
<i>Hydroides pacificus</i>	176	1584				2
Spionidae						
<i>Polydora ligni</i>						
<i>Polydora limicola</i>				1	2	2
<i>Polydora socialis</i>					1	
<i>Polydora</i> sp.						
<i>Prionospio cirrifera</i>						

SETTLING RACK DATA	1978-1979	STATION MDR-1					
		Aug	Oct	Dec	Feb	Apr	
<b>POLYCHAETA (cont.)</b>							
Spionidae (cont.)							
<i>Prionospio heterobranchia</i>							
<i>newportensis</i>							
<i>Prionospio</i> sp.							
<i>Pseudopolydora paucibranchiata</i>							
<i>Spicophanes</i> sp.							
<i>Streblospio benedicti</i>							
Spirorbidae, unid.							
Syllidae	56	4	9	4	2		
<i>Autolytus</i> sp.							
<i>Brania</i> sp.							
<i>Eusyllis assimilis</i>							
<i>Eusyllis</i> sp.							
<i>Exogone lourei</i>							
<i>Exogone</i> sp.							
<i>Typosyllis pulchra</i>							
<i>Typosyllis</i> sp.							
ANNELIDA OLIGOCHAETA							
ARTHROPODA CRUSTACEA							
Amphipoda							
Caprellidea							
Aeginellidae							
<i>Mayerella banksia</i>							
Caprellidae							
<i>Caprella californica</i>	48		7	2	14		
<i>Caprella equilibra</i>	120	132	12		17		
<i>Caprella verrucosa</i>	120	108	56	4	3		
<i>Caprella</i> sp.	488	124	69	2	16		
Gammaridea, unid.							
Aoridae							
<i>Aorides columbiae</i>							
Amphilochidae							
<i>Gitanopsis vilordes</i>							
Ampithoidae							
<i>Amphithoe plumulosa</i>							
<i>Amphithoe</i> sp.							
Bateidae							
<i>Bata transversa</i>							
Corophiidae							
<i>Corophium acherusicum</i>	7096	344	23	72	193		
<i>Ericthonius brasiliensis</i>	216	56	19	1			
<i>Ericthonius hunteri</i>							
<i>Ericthonius</i> sp.							
Eusiridae							
<i>Pontogenia rostrata</i>							
Gammaridae							
<i>Elasmopus rapax</i>	16		2				
<i>Maera simile</i>							
<i>Melita sulca</i>							
Hyalidae							
<i>Hyale frequens</i>					7		
<i>Hyale nigra</i>							

SETTLING RACK DATA	1978-1979						STATION MDR-1
	Aug	Oct	Dec	Feb	Apr	Jun	
ARTHROPODA CRUSTACEA (cont.)							
Gammaridea (cont.)							
Isaeidae							
<i>Gammaropsis thompsoni</i>							
Ischyroceridae							
<i>Jassa falcata</i>	15800	196	1589	40	91		
<i>Microjassa litotes</i>							
Leucothoidae							
<i>Leucothoe alata</i>							
Podoceridae							
<i>Podocerus brasiliensis</i>	56					6	
<i>Podocerus cristatus</i>		48	3	2			
<i>Podocerus</i> sp.							
Stenothoidae							
<i>Stenothoe valida</i>			30		8		
<i>Stenothoe</i> sp.							
Copepoda	160	64	726	467	1000		
Decapoda, unid.							
Decapod larvae							
Brachyura (crabs)							
Brachyura larvae (megalops)							
Grapsidae							
<i>Hemigrapsus oregonensis</i>							
<i>Pachygrapsus crassipes</i>							
Majidae							
<i>Loxorhynchus</i> sp.				1			
Caridea (shrimp)							
<i>Lysmata californica</i>			2				
Isopoda							
Arthuridae							
<i>Paranthura elegans</i>							
Ianiidae, unid.							
<i>Ianiropsis</i> sp.			1				
Idoteidae, unid.							
Jaeropsidae							
<i>Jaeropsis</i> sp.							
Limnoridae							
<i>Limnoria tripunctata</i>							
Munnidae							
<i>Munna</i> sp.	4	5					
Sphaeromatidae							
<i>Paracerceis sculpta</i>			1		1		
Mysidacea (Mysids)							
Ostracoda			16		35		
Tanaidacea							
<i>Anatanaeus normani</i>	24	4	1				
<i>Leptocheilia dubia</i>							
<i>Leptocheilia</i> sp.							
Thoracica (Barnacles)							
<i>Balanus amphitrite</i>	16	12		2			
<i>Balanus tintinnabulum</i>							
<i>Balanus</i> sp.							
<i>Chthamalus fissus</i>							
<i>Chthamalus</i> sp.							

## SETTLING RACK DATA

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STATION MDR-1

	Aug.	Oct	Dec	Feb	Apr	Jun
ARTHROPODA PYCNOGONIDA	16		2	3		
ASCHELMINTHES Nematoda	72	112	31	15		3
BRYOZOA (Counts=# of colonies)						
Cheilostomata, unid.						
Bicellariellidae						
<i>Bugula neritina</i>	7		5			
<i>Bugula stolonifera</i> (= <i>B. californica</i> )						
Celleporidae						
<i>Celleporaria brunnea</i>						
Cheiloporinidae						
<i>Cryptosula pallasiana</i>						
<i>Watersipora arcuata</i>						
Membraniporidae						
<i>Membranipora isabelleana</i> (= <i>M. villosa</i> )	1					
<i>Membranipora membranacea</i>						1
<i>Membranipora tenuis</i>						
<i>Membranipora tuberculata</i>	6		1			
Scrupariidae						
<i>Scruparia ambigua</i>	7					
Thalamoporellidae						
<i>Thalamoporella californica</i>						
Ctenostomata						
Vesiculariidae						
<i>Zoobotryon verticillatum</i>						
CHORDATA						
Asciidiacea						
Aplousobranchia						
<i>Diplosoma macdonaldi</i> (= <i>pizoni</i> )		0.16g				
Phlebobranchia						
<i>Ciona intestinalis</i>	72	164		1		
Stolidobranchia						
<i>Botryllus</i> sp.		0.04g		<0.01g		
CNIDARIA						
Anthozoa (Sea anemones)						
Hydrozoa-hydrozoa						
Campanulariidae						
<i>Obelia</i> sp.	1.28g	0.04g	1.23g	4.41g	0.79g	
Plumulariidae						
<i>Aglaophenia</i> sp.		<0.04g				
Tubulariidae						
<i>Tubularia</i> sp.						
ECHINODERMATA						
Echinoidea (Sea urchin)					9	
MOLLUSCA						
Gastropoda				1	273	
Archaeogastropoda, unid.						
Acmaeidae (limpets)						8
Atyidae						
<i>Haminoea</i> sp.						

SETTLING RACK DATA	1978-1979					
	Aug	Oct	Dec	Feb	Apr	Jun
MOLLUSCA (cont.)						
Calyptaeidae						
<i>Crepidula onyx</i>						
<i>Crepidula</i> sp.						
Cephalaspidea, unid.						
Columbellidae						
<i>Mitrella carinata</i>						
Nudibranchia, unid.	24	8	33	39	98	
Scaphandridae						
<i>Acteocina harpa</i>						
<i>Acteocina</i> sp.						
Pelecypoda	48	92		80	762	
Hiatellidae						
<i>Hiatella arctica</i>						
Mytilidae						
<i>Mytilus edulis</i>	24	88	126	3148	1578	
Pectinidae						
<i>Leptopecten latiauratus</i>			1		4	
NEMERTEA						
PHORONIDA						
PLATYHELMINTHES						
Turbellaria						
<i>Polycladia</i>	96	20	7	5	1	
PORIFERA						
<i>Leucosolenia</i> sp.						
PROTOZOA						
Foraminifera	40	8			95	
PLANTS - Total wet weight all plants						
ALGAE, unid.		1.08g	0.07g		0.05g	
CHLOROPHYCOPHYTA CHLOROPHYCEAE						
Uvales						
<i>Enteromorpha</i> sp.	0.16g					
<i>Ulva</i> sp.			<0.01g			
PHAEOPHYCOPHYTA PHAEOPHYCEAE						
Ectocarpales- <i>Ectocarpus</i> sp.						
RHODOPHYCOPHYTA FLORIDEOPHYCEAE						
Ceramiales- <i>Polysiphonia</i> sp.	2.96g			<0.01g		

## SETTLING RACK DATA

1978-1979

STATION MDR-3

	Aug	Oct	Dec	Feb	Apr	Jun
<b>ANNELIDA POLYCHAETA</b>						
Capitellidae						
<i>Capitella capitata</i>				4	1	
Chaetopteridae						
<i>Chaetopterus variopedatus</i>						
<i>Phyllochaetopterus limiculus</i>						
Chrysopetalidae						
<i>Paleonotus bellis</i>					5	
Cirratulidae						
<i>Caulieriella alata</i>						
<i>Caulieriella hamata</i>						
<i>Chaetozone corona</i>						
<i>Tharyx</i> sp.						
Cossuridae						
<i>Cossura candida</i>						
Ctenodrilidae						
<i>Ctenodrilus serratus</i>	4					
Dorvilleidae						
<i>Ophryotrocha puerilis</i>				1		
<i>Schistomeriongus longicornis</i>						
Hesionidae						
<i>Gyptis brevipalpa</i>						
<i>Ophiodromus pugettensis</i>			8			
Nereidae						
<i>Neanthes arenaceodentata</i>						
<i>Platynereis bicanaliculata</i>				1	13	6
Opheliidae						
<i>Armandia bioculata</i>					1	
<i>Polyopthalmus pictus</i>	12	200	13	1	1	2
Pectinariidae						
<i>Pectinaria</i> sp.						
Phyllodocidae						
<i>Anaitides williamsi</i>						
<i>Eulalia aviculifera</i>						
<i>Eulalia</i> sp.						
<i>Eumida sanguinea</i>						
Polynoidae						
<i>Halosydna brevisetosa</i>	4					
<i>Harmothoe imbricata</i>						
Sabellariidae						
<i>Sabellaria alcocki</i>				4		
<i>Sabellaria</i> sp.						
Sabellidae					2	
<i>Sabella</i> sp.		8				
Serpulidae						
<i>Eponatus gracilis</i>						
<i>Hydroides pacificus</i>	924	7600	4			
Spionidae						
<i>Polydora ligni</i>				1	3	
<i>Polydora limicola</i>						
<i>Polydora socialis</i>					2	
<i>Polydora</i> sp.				1		
<i>Prionospio cirrifera</i>						

## SETTLING RACK DATA

1978-1979

STATION MDR-3

	Aug	Oct	Dec	Feb	Apr	Jun
<b>POLYCHAETA (cont.)</b>						
Spionidae (cont.)						
<i>Prionospio heterobranchia</i>						
<i>newportensis</i>			8			
<i>Prionospio</i> sp.						
<i>Pseudopcydora paucibranchiata</i>						
<i>Spiophanes</i> sp.						
<i>Streblospio benedicti</i>						
<i>Spirorbidae</i> , unid.	8	8	1			1
<i>Syllidae</i>	8	24	23	10		33
<i>Autolytus</i> sp.						
<i>Brania</i> sp.						
<i>Eusyllis assimilis</i>						
<i>Eusyllis</i> sp.						
<i>Exogone lourei</i>						
<i>Exogone</i> sp.						
<i>Typosyllis pulchra</i>						
<i>Typosyllis</i> sp.						
ANNELEDA OLIGOCHAETA						
ARTHROPODA CRUSTACEA						
<i>Amphipoda</i>		424				
<i>Caprellidea</i>						
<i>Aeginellidae</i>						
<i>Mayerella banksia</i>						
<i>Caprellidae</i>						
<i>Caprella californica</i>	68	32				110
<i>Caprella equilibra</i>	12	512	3	3		1
<i>Caprella verrucosa</i>	4	8				
<i>Caprella</i> sp.	220		4			9
<i>Gammaridea</i> , unid.	12			1		
<i>Aoridae</i>					2	
<i>Aorides columbiae</i>						
<i>Amphilochidae</i>						
<i>Gitanopsis vilordes</i>						
<i>Ampithoidae</i>						
<i>Amphithoe plumulosa</i>	8		1			
<i>Amphithoe</i> sp.					2	
<i>Bateidae</i>						
<i>Bata transversa</i>						
<i>Corophiidae</i>						
<i>Corophium acherusicum</i>	1120	56	59	26	230	
<i>Ericthonius brasiliensis</i>	828	704	260	20	7	
<i>Ericthonius hunteri</i>						
<i>Ericthonius</i> sp.						
<i>Eusiridae</i>						
<i>Pontogenia rostrata</i>						
<i>Gammaridae</i>						
<i>Elasmopus rapax</i>	44	16	33	1	3	
<i>Maera simile</i>					2	
<i>Melita sulca</i>						
<i>Hyalidae</i>						
<i>Hyale frequens</i>					1	
<i>Hyale nigra</i>						

## SETTLING RACK DATA

1978-1979

STATION MDR-3

	Aug	Oct	Dec	Feb	Apr	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Gammaridea (cont.)						
Isaeidae						
<i>Gammaropsis thompsoni</i>			3	1		
Ischyroceridae						
<i>Jassa fulcata</i>	4	40	202	4	52	
<i>Microjassa litotes</i>			1			
Leucothoidae						
<i>Leucothoe alata</i>						
Podoceridae						
<i>Podocerus brasiliensis</i>	536					
<i>Podocerus cristatus</i>		800	70	3	2	
<i>Podocerus</i> sp.						
Stenothoidae						
<i>Stenothoe valida</i>	20	208	20	1	8	
<i>Stenothoe</i> sp.						
Copepoda	52	216	505	36	496	
Decapoda, unid.						
Decapod larvae						
Brachyura (crabs)						
Brachyura larvae (megalops)						
Grapsidae						
<i>Hemigrapsus oregonensis</i>						
<i>Pachygrapsus crassipes</i>						
Majidae						
<i>Loxorhynchus</i> sp.						
Caridea (shrimp)						
<i>Lysmata californica</i>				1		
Isopoda						
Arthuridae						
<i>Paranthuria elegans</i>					2	
Ianiridae, unid.						
<i>Ianiropsis</i> sp.						
Idoteidae, unid.						
Jaeropsidae						
<i>Jaeropsis</i> sp.						
Limnoridae						
<i>Limnoria tripunctata</i>					1	
Munnidae						
<i>Munna</i> sp.			2			
Sphaeromatidae						
<i>Paracerceis sculpta</i>	4	40	42	2	3	
Mysidacea (Mysids)						
Ostracoda		24	3	2		
Tanaidacea						
<i>Anatanais normani</i>	116		2			
<i>Leptocheilia dubia</i>		8				
<i>Leptocheilia</i> sp.						
Thoracica (Barnacles)						
<i>Balanus amphitrite</i>			16	1	3	
<i>Balanus tintinnabulum</i>						
<i>Balanus</i> sp.						
<i>Chthamalus fissus</i>						
<i>Chthamalus</i> sp.						

## SETTLING RACK DATA

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1978-1979

STATION MDR-3

	Aug.	Oct	Dec	Feb	Apr	Jun
<b>ARTHROPODA PYCNOGONIDA</b>						
ASCHELMINTHES Nematoda						
BRYOZOA (Counts=# of colonies)	28	32				
Cheilostomata, unid.						
Bicellariellidae						
<i>Bugula neritina</i>	26	4				
<i>Bugula stolonifera</i> (=B. californica)	3					
Celleporidae						
<i>Celleporaria brunnea</i>				1		
Cheiloporinidae						
<i>Cryptosula pallasiana</i>						
<i>Watersipora arcuata</i>	1	2	1			
Membraniporidae						
<i>Membranipora isabellaeana</i> (=M. villosa)						
<i>Membranipora membranacea</i>						
<i>Membranipora tenuis</i>						
<i>Membranipora tuberculata</i>						
Scrupariidae						
<i>Scruparia ambigua</i>						
Thalamoporellidae						
<i>Thalamoporella californica</i>						
Ctenostomata						
Vesiculariidae						
<i>Zoobotryon verticillatum</i>						
CHORDATA						
Asciidiacea						
Aplousobranchia						
<i>Diplosoma macdonaldi</i> (=pizoni)	0.64g					
Phlebobranchia						
<i>Ciona intestinalis</i>	244	1480	89	11	869	
Stolidobranchia						
<i>Botryllus sp.</i>	<0.04g				0.01g	
CNIDARIA						
Anthozoa (Sea anemones)					1	
Hydrozoa-hydroida						
Campanulariidae						
<i>Obelia sp.</i>	0.16g	0.08g	0.04g	0.03g	0.01g	
Plumulariidae						
<i>Aglaophenia sp.</i>	<0.04g	0.48g	<0.01g	0.01g	0.01g	
Tubulariidae						
<i>Tubularia sp.</i>		6.80g				
ECHINODERMATA						
Echinoidea (Sea urchin)					3	
MOLLUSCA						
Gastropoda						
Archaeogastropoda, unid.	72	5				
Acmaeidae (limpets)						
Atyidae						
<i>Haminoea sp.</i>						

	Aug	Oct	Dec	Feb	Apr	Jun
MOLLUSCA (cont.)						
Calyptraeidae						
<i>Crepidula onyx</i>						
<i>Crepidula</i> sp.						
Cephalaspidea, unid.						
Columbellidae						
<i>Mitrella carinata</i>	12					41
Nudibranchia, unid.	20					15
Scaphandridae						
<i>Acteocina harpa</i>						
<i>Acteocina</i> sp.						
Pelecypoda	8	24	2	23	163	
Hiatellidae						
<i>Hiatella arctica</i>						
Mytilidae						
<i>Mytilus edulis</i>	24	32	7	61	95	
Pectinidae						
<i>Leptopecten laticuratus</i>	4					
NEMERTEA						
PHORONIDA						
PLATYHELMINTHES						
Turbellaria						
<i>Polycladida</i>	248	184	9	2		
PORIFERA						
<i>Leucosolenia</i> sp.						
PROTOZOA						
Foraminifera						
PLANTS - Total wet weight all plants		8	1			
ALGAE, unid.				0.02g	0.14g	
CHLOROPHYCOPHYTA CHLOROPHYCEAE						
Uvales						
<i>Enteromorpha</i> sp.						
<i>Ulva</i> sp.						
PHAEOPHYCOPHYTA PHAEOPHYCEAE						
Ectocarpales- <i>Ectocarpus</i> sp.						
RHODOPHYCOPHYTA FLORIDEOPHYCEAE						
Ceramiales- <i>Polysiphonia</i> sp.						

SETTLING RACK DATA

1978-1979

STATION MDR-4

	Aug	Oct	Dec	Feb	Apr	Jun
<b>ANNELIDA POLYCHAETA</b>						
Capitellidae						
<i>Capitella capitata</i>				10		
Chaetopteridae						
<i>Chaetopterus variopedatus</i>						
<i>Phyllochaetopterus limiculus</i>						
Chrysopetalidae						
<i>Paleonotus bellis</i>			1		1	
Cirratulidae						
<i>Caulieriella alata</i>						
<i>Caulieriella hanata</i>						
<i>Chaetozone corona</i>						
<i>Tharyx sp.</i>						
Cossuridae						
<i>Cossura candida</i>						
Ctenodrilidae						
<i>Ctenodrilus serratus</i>				1	1	
Dorvilleidae						
<i>Ophryotrocha puerilis</i>					1	
<i>Schistomerings longicornis</i>						
Hesionidae						
<i>Gyptis brevipalpa</i>						
<i>Ophiodromus pugettensis</i>						
Nereidae						
<i>Neanthes arenaceodentata</i>				7	1	
<i>Platynereis bicanaliculata</i>						
Opheliidae						
<i>Armandia bioculata</i>			1	2		
<i>Polyopthalmus pictus</i>	4	28		1	5	
Pectinariidae						
<i>Pectinaria sp.</i>				1		
Phyllodocidae						
<i>Anaitides williamsi</i>						
<i>Eulalia aviculifera</i>						
<i>Eulalia sp.</i>						
<i>Eumida sanguinea</i>						
Polynoidae						
<i>Halosydna brevisetosa</i>						
<i>Harmothoe imbricata</i>						
Sabellariidae				15		
<i>Sabellaria alcocki</i>						
<i>Sabellaria sp.</i>						
Sabellidae	4	4				
<i>Sabella sp.</i>						
Serpulidae						
<i>Eupomatus gracilis</i>						
<i>Hydroides pacificus</i>	11788	7672	1			
Spionidae					2	
<i>Polydora ligni</i>	4	4				
<i>Polydora limicola</i>	4					
<i>Polydora socialis</i>				8	2	
<i>Polydora sp.</i>						
<i>Prionospio cirrifera</i>	4					

## SETTLING RACK DATA

1978-1979

STATION MDR-4

	Aug	Oct	Dec	Feb	Apr	Jun
POLYCHAETA (cont.)						
<i>Spionidae</i> (cont.)						
<i>Prionospio heterobranchia</i>						
<i>newportensis</i>						
<i>Prionospio</i> sp.						3
<i>Pseudopolydora paucibranchiata</i>						
<i>Spiophanes</i> sp.						
<i>Streblospio benedicti</i>						
<i>Spirorbidae</i> , unid.	76	4	1	4	13	
<i>Syllidae</i>	4	12	21	5	22	
<i>Autolytus</i> sp.						
<i>Brania</i> sp.						
<i>Eusyllis assimilis</i>						
<i>Eusyllis</i> sp.						
<i>Exogone lourei</i>						
<i>Exogone</i> sp.						
<i>Typosyllis pulchra</i>						
<i>Typosyllis</i> sp.						
ANNEELIDA OLIGOCHAETA						
ARTHROPODA CRUSTACEA						
<i>Amphipoda</i>						
<i>Caprellidea</i>						
<i>Aeginellidae</i>						
<i>Mayerella banksia</i>						
<i>Caprellidae</i>	28					
<i>Caprella californica</i>		28	46	16	14	
<i>Caprella equilibra</i>		8	3	3	5	
<i>Caprella verrucosa</i>	8					
<i>Caprella</i> sp.	108	108	70	3	45	
<i>Gammaridea</i> , unid.						
<i>Aoridae</i>						
<i>Aorides columbiae</i>						
<i>Amphilochidae</i>						
<i>Gitanopsis vilordes</i>						1
<i>Ampithoidae</i>						
<i>Amphithoe plumulosa</i>						
<i>Ampithoe</i> sp.						
<i>Bateidae</i>						
<i>Bata transversa</i>						
<i>Corophiidae</i>						
<i>Corophium acherusicum</i>	432	48	90	12	30	
<i>Ericthonius brasiliensis</i>	792	232	97	6	1	
<i>Ericthonius hunteri</i>						
<i>Ericthonius</i> sp.						
<i>Eusiridae</i>						
<i>Pontogenia rostrata</i>						
<i>Gammaridae</i>						
<i>Elasmopus rapax</i>	72	28	17			
<i>Maera simile</i>						
<i>Melita sulca</i>						
<i>Hyalidae</i>						
<i>Ryale frequens</i>						
<i>Ryale nigra</i>						

## SETTLING RACK DATA

1978-1979

STATION MDR-4

	Aug	Oct	Dec	Feb	Apr	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Gammaridea (cont.)				6		
Isaeidae						
<i>Gammaropsis thompsoni</i>			1		2	
Ischyroceridae						
<i>Jassa falcata</i>		4	40	3	4	
<i>Microjassa litotes</i>						
Leucothoidae						
<i>Leucothoe alata</i>						
Podoceridae						
<i>Podocerus brasiliensis</i>						
<i>Podocerus cristatus</i>	320	196	218	17	19	
<i>Podocerus</i> sp.						
Stenothoidae						
<i>Stenothoe valida</i>		8	3		2	
<i>Stenothoe</i> sp.						
Copepoda	28	64	80	53	93	
Decapoda, unid.						
Decapod larvae		4				
Brachyura (crabs)						
Brachyura larvae (megalops)						
Grapsidae						
<i>Hemigrapsus oregonensis</i>		4				
<i>Pachygrapsus crassipes</i>						
Majidae						
<i>Loxorhynchus</i> sp.						
Caridea (shrimp)						
<i>Lysmata californica</i>			1			
Isopoda						
Arthuridae						
<i>Paranthura elegans</i>						
Ianiidae, unid.						
<i>Ianiropsis</i> sp.						
Idoteidae, unid.						
Jaeropsidae						
<i>Jaeropsis</i> sp.						
Limnoridae						
<i>Limnoria tripunctata</i>						
Munnidae						
<i>Munna</i> sp.						
Sphaeromatidae						
<i>Paracerceis sculpta</i>	8	16	22	3	4	
Mysidacea (Mysids)						
Ostracoda			1		2	
Tanaidacea						
<i>Anatanais normani</i>		12				
<i>Leptochelia dubia</i>						
<i>Leptochelia</i> sp.						
Thoracica (Barnacles)						
<i>Balanus amphitrite</i>						
<i>Balanus tintinnabulum</i>		16			1	
<i>Balanus</i> sp.						
<i>Chthamalus fissus</i>						
<i>Chthamalus</i> sp.						

## SETTLING RACK DATA

1978-1979

STATION MDR-4

	Aug	Oct	Dec	Feb	Apr	Jun
ARTHROPODA PYCNOGONIDA						
ASCHELMINTHES Nematoda	20	4				4
BRYOZOA (Counts=# of colonies)						
Cheilostomata, unid.						
Bicellariellidae						
<i>Bugula neritina</i>	4	46				
<i>Bugula stolonifera</i>						
(=B. californica)						
Celleporidae						
<i>Celleporaria brunnea</i>		2	5			
Cheiloporinidae						
<i>Cryptosula pallasiana</i>						
<i>Watersipora arcuata</i>	22	7				
Membraniporidae						
<i>Membranipora isabelleana</i>						
(=M. villosa)						
<i>Membranipora membranacea</i>						
<i>Membranipora tenuis</i>						
<i>Membranipora tuberculata</i>						
Scrupariidae						
<i>Scruparia ambigua</i>						
Thalamoporellidae						
<i>Thalamoporella californica</i>						
Ctenostomata						
Vesiculariidae						
<i>Zoobotryon verticillatum</i>		1				
CHORDATA						
Asciidiacea						
Aplousobranchia						
<i>Diplosoma macdonaldi</i> (=pizoni)	<0.04g	0.04g	0.01g			<0.01g
Phlebobranchia						
<i>Ciona intestinalis</i>	314	846		25	1035	
Stolidobranchia						
<i>Botryllus</i> sp.	0.20g	0.08g	<0.01g	0.01g	<0.01g	
CNIDARIA						
Anthozoa (Sea anemones)						
Hydrozoa-hydroida						
Campanulariidae						
<i>Obelia</i> sp.			0.01g	<0.01g	<0.01g	
Plumulariidae						
<i>Aglaophenia</i> sp.	<0.04g		<0.01g	<0.01g		
Tubulariidae						
<i>Tubularia</i> sp.	<0.04g			<0.01g	<0.01g	
ECHINODERMATA						
Echinoidea (Sea urchin)					1	
MOLLUSCA						
Gastropoda						
Archaeogastropoda, unid.						
Acmaeidae (limpets)						
Atyidae						
<i>Haminoea</i> sp.						

## SETTLING RACK DATA

1978-1979

STATION MDR-4

Aug Oct Dec Feb Apr Jun

<b>MOLLUSCA (cont.)</b>						
Calyptidae						
<i>Crepidula onyx</i>						
<i>Crepidula</i> sp.						
Cephalaspidea, unid.						
Columbellidae						
<i>Mitrella carinata</i>						18
Nudibranchia, unid.					8	14
Scaphandridae						
<i>Acteocina harpa</i>						
<i>Acteocina</i> sp.						
Pelecypoda	24				9	19
Hiatellidae						
<i>Hiatella arctica</i>						
Mytilidae						
<i>Mytilus edulis</i>	4				40	37
Pectinidae						
<i>Leptopecten latiauratus</i>						
NEMERTEA				1		
PHORONIDA						
PLATYHELMINTHES						
Turbellaria						
<i>Polycladia</i>	84	12	10	4	12	
PORIFERA						
<i>Leucosolenia</i> sp.	8					
PROTOZOA						
Foraminifera	4					18
PLANTS - Total wet weight all plants	<0.04g					
ALGAE, unid.						
CHLOROPHYCOPHYTA CHLOROPHYCEAE						
Uvales						
<i>Enteromorpha</i> sp.						
<i>Ulva</i> sp.						
PHAEOPHYCOPHYTA PHAEOPHYCEAE						
Ectocarpales- <i>Ectocarpus</i> sp.						
RHODOPHYCOPHYTA FLORIDEOPHYCEAE						
Ceramiales- <i>Polysiphonia</i> sp.						

## SETTLING RACK DATA

1978-1979

STATION MDR-6

	Aug	Oct	Dec	Feb	Apr	Jun
<b>ANNELIDA POLYCHAETA</b>						
<b>Capitellidae</b>						
<i>Capitella capitata</i>		5	9	4	6	
<b>Chaetopteridae</b>						
<i>Chaetopterus variopedatus</i>						
<i>Phyllochaetopterus limiculus</i>						
<b>Chrysopetalidae</b>						
<i>Paleonotus bellis</i>					1	
<b>Cirratulidae</b>						
<i>Caulieriella alata</i>		1				
<i>Caulieriella hamata</i>						
<i>Chaetozone corona</i>				2	5	
<i>Tharyx</i> sp.				4	2	
<b>Cossuridae</b>						
<i>Cossura candida</i>						
<b>Ctenodrilidae</b>						
<i>Ctenodrilus serratus</i>				1	3	
<b>Dorvilleidae</b>						
<i>Ophryotrocha puerilis</i>	2	4	4	8	8	
<i>Schistomerings longicornis</i>		3			13	
<b>Hesionidae</b>						
<i>Gyptis brevipalpa</i>						
<i>Ophiodromus pugettensis</i>						
<b>Nereidae</b>						
<i>Neanthes arenaceodentata</i>						
<i>Platynereis bicanaliculata</i>	1			1		1
<b>Opheliidae</b>						
<i>Armandia bioculata</i>						
<i>Polyopthalmus pictus</i>						
<b>Pectinariidae</b>						
<i>Pectinaria</i> sp.						
<b>Phyllodocidae</b>						
<i>Anaitides williamsi</i>						
<i>Eulalia aviculifera</i>						
<i>Eulalia</i> sp.						
<i>Eumida sanguinea</i>						
<b>Polynoidae</b>						
<i>Halosydna brevisetosa</i>						
<i>Harmothoe imbricata</i>						
<b>Sabellariidae</b>						
<i>Sabellaria alcocki</i>						
<i>Sabellaria</i> sp.						
<b>Sabellidae</b>	26		1		1	1
<i>Sabella</i> sp.						
<b>Serpulidae</b>						
<i>Eupomatus gracilis</i>						
<i>Hydroides pacificus</i>	1396	270				
<b>Spionidae</b>				2		5
<i>Polydora ligni</i>	9			1		7
<i>Polydora limicola</i>						
<i>Polydora socialis</i>					2	
<i>Polydora</i> sp.						
<i>Prionospio cirrifera</i>			1			

## SETTLING RACK DATA

1978-1979

STATION MDR-6

	Aug	Oct	Dec	Feb	Apr	Jun
<b>POLYCHAETA (cont.)</b>						
<b>Spionidae (cont.)</b>						
<i>Prionospio heterobranchia</i>						
<i>newportensis</i>	1	1				
<i>Prionospio</i> sp.						
<i>Pseudopolydora paucibranchiata</i>	1					
<i>Spiophanes</i> sp.						
<i>Streblospio benedicti</i>			1	2		
<i>Spirorbidae</i> , unid.	209	47		5	18	
<b>Syllidae</b>	30	5	25	77	115	
<i>Autolytus</i> sp.						
<i>Brania</i> sp.						
<i>Eusyllis assimilis</i>						
<i>Eusyllis</i> sp.						
<i>Exogone lourei</i>						
<i>Exogone</i> sp.						
<i>Typosyllis pulchra</i>						
<i>Typosyllis</i> sp.						
<b>ANNELIDA OLIGOCHAETA</b>						
<b>ARTHROPODA CRUSTACEA</b>						
<b>Amphipoda</b>						
<b>Caprellidea</b>						
<b>Aeginellidae</b>						
<i>Mayerella banksia</i>					104	
<b>Caprellidae</b>						
<i>Caprella californica</i>	17	1				
<i>Caprella equilibra</i>						
<i>Caprella verrucosa</i>						
<i>Caprella</i> sp.	11	2				
<b>Gammaridea</b> , unid.						
<b>Aoridae</b>						
<i>Aorides columbiae</i>						
<b>Amphilochidae</b>						
<i>Gitanopsis vilordes</i>						
<b>Ampithoidae</b>						
<i>Amphithoe plumulosa</i>						
<i>Amphithoe</i> sp.						
<b>Bateidae</b>						
<i>Bata transversa</i>						
<b>Corophiidae</b>						
<i>Corophium acherusicum</i>	26	10	11	26	14	
<i>Ericthonius brasiliensis</i>	171	10				
<i>Ericthonius hunteri</i>						
<i>Ericthonius</i> sp.						
<b>Eusiridae</b>						
<i>Pontogenia rostrata</i>			1			
<b>Gammaridae</b>						
<i>Elaemopus rapax</i>	84	126	18	23	2	
<i>Maera simile</i>						
<i>Melita sulca</i>						
<b>Hyalidae</b>						
<i>Ryale frequens</i>						
<i>Ryale nigra</i>						

## SETTLING RACK DATA

1978-1979

STATION MDR-6

	Aug	Oct	Dec	Feb	Apr	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Gammaridea (cont.)						
Isaeidae						
<i>Gammaropsis thompsoni</i>						
Ischyroceridae						
<i>Jassa falcata</i>				1		
<i>Microjassa litotes</i>						
Leucothoidae						
<i>Leucothoe alata</i>						
Podoceridae						
<i>Podocerus brasiliensis</i>						
<i>Podocerus cristatus</i>						
<i>Podocerus sp.</i>	116	46	4			
Stenothoidae						
<i>Stenothoe valida</i>						1
<i>Stenothoe sp.</i>						
Copepoda	55	15	46	53	146	
Decapoda, unid.						1
Decapod larvae						
Brachyura (crabs)						
Brachyura larvae (megalops)						
Grapidae						
<i>Hemigrapsus oregonensis</i>		1				
<i>Pachygrapsus crassipes</i>						
Majidae						
<i>Loxorhynchus sp.</i>						
Caridea (shrimp)						
<i>Lysmata californica</i>						
Isopoda						
Arthuridae						
<i>Paranthura elegans</i>						
Ianiidae, unid.						
<i>Ianiropsis sp.</i>						
Idoteidae, unid.						
Jaeropsidae						
<i>Jaeropsis sp.</i>						
Limnoridae						
<i>Limnoria tripunctata</i>						
Munnidae						
<i>Munna sp.</i>			2	1	3	
Sphaeromatidae						
<i>Paracerceis sculpta</i>	52	316	83	17	19	
Mysidacea (Mysids)						
Ostracoda		2	3		7	
Tanaidacea						
<i>Anatanais normani</i>	147		2	2	4	
<i>Leptochelia dubia</i>						
<i>Leptochelia sp.</i>						
Thoracica (Barnacles)						
<i>Balanus amphitrite</i>					1	
<i>Balanus tintinnabulum</i>						
<i>Balanus sp.</i>						
<i>Chthamalus fissus</i>						
<i>Chthamalus sp.</i>						

## SETTLING RACK DATA

1978-1979

STATION MDR-6

	Aug	Oct	Dec	Feb	Apr	Jun
ARTHROPODA PYCNOGONIDA						
ASCHELMINTHES Nematoda				3	4	4
BRYOZOA (Counts=# of colonies)						
Cheilostomata, unid.						
Bicellariellidae						
<i>Bugula neritina</i>		37				
<i>Bugula stolonifera</i>						
(= <i>B. californica</i> )						
Celleporidae				2		
<i>Celleporaria brunnea</i>						
Cheiloporinidae						
<i>Cryptosula pallasiana</i>						3
<i>Watersipora arcuata</i>						
Membraniporidae						
<i>Membranipora isabellaeana</i>						
(= <i>M. villosa</i> )						
<i>Membranipora membranacea</i>						
<i>Membranipora tenuis</i>						
<i>Membranipora tuberculata</i>						
Scrupariidae						
<i>Scruparia ambigua</i>						
Thalamoporellidae						
<i>Thalamoporella californica</i>						
Ctenostomata						
Vesiculariidae						
<i>Zoobotryon verticillatum</i>						
CHORDATA						
Ascidacea						
Aplousobranchia						
<i>Diplosoma macdonaldi</i> (= <i>pizoni</i> )	<0.01g					
Phlebobranchia						
<i>Ciona intestinalis</i>	224	1	138	32	<0.01g	
Stolidobranchia					646	
<i>Botryllus sp.</i>	<0.01g				<0.01g	
CNIDARIA						
Anthozoa (Sea anemones)						
Hydrozoa-hydroida						
Campanulariidae						
<i>Obelia sp.</i>	<0.01g	<0.01g	<0.01g	<0.01g		
Plumulariidae						
<i>Aglaophenia sp.</i>						
Tubulariidae						
<i>Tubularia sp.</i>				<0.01g	<0.01g	
ECHINODERMATA						
Echinoidea (Sea urchin)						
MOLLUSCA						
Gastropoda						
Archaeogastropoda, unid.						
Acmaeidae (limpets)						
Atyidae						
<i>Haminoea sp.</i>						

## SETTLING RACK DATA

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1978-1979

Page 5 of 5  
STATION MDR-6

	Aug	Oct	Dec	Feb	Apr	Jun
<b>MOLLUSCA (cont.)</b>						
Calyptidae						
<i>Crepidula onyx</i>						
<i>Crepidula</i> sp.						
Cephalaspidea, unid.						
Columbellidae						
<i>Mitrella carinata</i>						1
Nudibranchia, unid.						1
Scaphandridae						
<i>Acteocina harpa</i>						
<i>Acteocina</i> sp.						
Pelecypoda				3		4
Hiatellidae						
<i>Hiatella arctica</i>						
Mytilidae						
<i>Mytilus edulis</i>				2		5
Pectinidae						
<i>Leptopecten latiauratus</i>						
NEMERTEA						
PHORONIDA						
PLATYHELMINTHES						
Turbellaria						
<i>Polycladia</i>	5	4	3	3		8
PORIFERA						
<i>Leucosolenia</i> sp.						
PROTOZOA				3		
<i>Foraminifera</i>						
PLANTS - Total wet weight all plants						
ALGAE, unid.					≤0.01g	
CHLOROPHYCOPHYTA CHLOROPHYCEAE						
Uvales						
<i>Enteromorpha</i> sp.						
<i>Ulva</i> sp.						
PHAEOPHYCOPHYTA PHAEOPHYCEAE						
<i>Ectocarpales-Ectocarpus</i> sp.						
RHODOPHYCOPHYTA FLORIDEOPHYCEAE						
<i>Ceramiales-Polysiphonia</i> sp.						

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## SETTLING RACK DATA

1978-1979

STATION MDR-7

Aug Oct Dec Feb Apr Jun

**ANNELEA POLYCHAETA****Capitellidae***Capitella capitata*

10

2

**Chaetopteridae***Chaetopterus variopedatus**Phyllochaetopterus limicolus***Chrysopetalidae***Paleonotus bellis***Cirratulidae***Caulieriella alata**Caulieriella hamata**Chaetozone corona**Tharyx sp.***Cossuridae***Cossura candida***Ctenodrilidae***Ctenodrilus serratus*

5

1

**Dorvilleidae***Ophryotrocha puerilis*

20

3

1

*Schistomerings longicornis***Hesionidae***Gyptis brevipalpa**Ophiodromus pugettensis***Nereidae***Neanthes arenaceodentata*

2

*Platynereis bicanaliculata***Opheliidae***Armandia bioculata**Polyopthalmus pictus*

3

1

**Pectinariidae***Pectinaria sp.***Phyllodocidae***Anaitides williamsi**Eulalia aviculifera**Eulalia sp.**Eumida sanguinea***Polynoidae***Halosydna brevisetosa**Harmothoe imbricata***Sabellariidae***Sabellaria alcocki**Sabellaria sp.***Sabellidae**

132

*Sabella sp.***Serpulidae***Eupomatus gracilis**Hydroides pacificus*

2004 2700

**Spionidae***Polydora ligni*

2

2

*Polydora limicola*

1

1

*Polydora socialis*

1

*Polydora sp.**Prionospio cirrifera*

## SETTLING RACK DATA

1978-1979

STATION MDR-7

	Aug	Oct	Dec	Feb	Apr	Jun
POLYCHAETA (cont.)						
Spiridae (cont.)						
<i>Prionospio heterobranchia</i>	1					
<i>newportensis</i>						
<i>Prionospio</i> sp.						
<i>Pseudopolydora paucibranchiata</i>	3					
<i>Spiophanes</i> sp.				1		
<i>Streblospio benedicti</i>						
Spirorbidae, unid.	562	192	4	7		
Syllidae	34	8	6	9		
<i>Autolytus</i> sp.						
<i>brania</i> sp.						
<i>H. syllis assimilis</i>						
<i>H. syllis</i> sp.						
<i>Exogone lourei</i>						
<i>Exegone</i> sp.						
<i>Typosyllis pulchra</i>						
<i>Typosyllis</i> sp.						
ANNELEIDA OLIGOCHAETA						
ARTHROPODA CRUSTACEA						
Amphipoda						
Caprellidea						
Aeginellidae						
<i>Mayerella banksia</i>						
Caprellidae						
<i>Caprella californica</i>	12		2			
<i>Caprella equilibra</i>	1					
<i>Caprella verrucosa</i>						
<i>Caprella</i> sp.						
Gammaridea, unid.						
Aoridae						
<i>Aorida columbiae</i>						
Amphilochidae						
<i>Gitanopsis vilordes</i>						
Ampithoidae						
<i>Amphithoe plumulosa</i>						
<i>Ampithoe</i> sp.						
Bateidae						
<i>Bata transversa</i>						
Corophiidae						
<i>Corophium acherusicum</i>	34	8	9	4		
<i>Ericthonius brasiliensis</i>	30	8	2	3		
<i>Ericthonius hunteri</i>						
<i>Ericthonius</i> sp.						
Eusiridae						
<i>Pontogenia rostrata</i>						
Gammaridae						
<i>Elasmopus rapax</i>	88	8	4	5		
<i>Maera simile</i>				1		
<i>Melita sulca</i>						
Hyalidae						
<i>Huale frequens</i>						
<i>Huale nigra</i>						

## SETTLING RACK DATA

1978-1979

STATION MDR-7

	Aug	Oct	Dec	Feb	Apr	Jun
ARTHROPODA CRUSTACEA (cont.)						
Gammaridea (cont.)						
Isacidae						
<i>Gammaropsis thompsoni</i>						
Ischyroceridae						
<i>Jassa falcata</i>	1					
<i>Microjassa litotes</i>			1			
Leucothoidae						
<i>Leucothoe alata</i>						
Podoceridae						
<i>Podocerus brasiliensis</i>						
<i>Podocerus cristatus</i>	315	4	12	20		
<i>Podocerus sp.</i>						
Stenothoidae						
<i>Stenothoe valida</i>						
<i>Stenothoe sp.</i>						
Copepoda	143	24	30	21		
Decapoda, unid.						
Decapod larvae						
Brachyura (crabs)						
Brachyura larvae (megalops)						
Grapidae						
<i>Hemigrapsus oregonensis</i>						
<i>Pachygrapsus crassipes</i>						
Majidae						
<i>Loxorhynchus sp.</i>						
Caridea (shrimp)						
<i>Lysmata californica</i>						
Isopoda						
Arthuridae						
<i>Paranthura elegans</i>						
Ianiidae, unid.						
<i>Ianiropsis sp.</i>						
Idoteidae, unid.						
Jaeropsidae						
<i>Jaeropsis sp.</i>						
Limnoridae						
<i>Limnoria tripunctata</i>	4		1			
Munnidae				3		
<i>Munna sp.</i>						
Sphaeromatidae						
<i>Paracerceis sculpta</i>	54	68	5			
Mysidacea (Mysids)						
Ostracoda						
Tanaidacea						
<i>Anatanais normani</i>	23			2		
<i>Leptochelia dubia</i>	1					
<i>Leptochelia sp.</i>						
Thoracica (Barnacles)						
<i>Balanus amphitrite</i>						
<i>Balanus tintinnabulum</i>						
<i>Balanus sp.</i>						
<i>Chthamalus fissus</i>						
<i>Chthamalus sp.</i>						

## SETTLING RACK DATA

1978-1979

STATION MDR-7

	Aug	Oct	Dec	Feb	Apr	Jun
<b>ARTHROPODA PYCNOCHONIDA</b>						
ASCHELMINTHES Nematoda	4		1	1		
BRYOZOA (Counts=# of colonies)						
Cheilostomata, unid.						
Bicellariellidae						
<i>Bugula neritina</i>	2					
<i>Bugula stolonifera</i>	1					
(=B. californica)						
Celloporidae						
<i>Celloporaria brunnea</i>	1					
Cheiloporinidae						
<i>Cryptosula pallasiiana</i>	1					
<i>Watersipora arcuata</i>	25					
Membraniporidae						
<i>Membranipora isabelleana</i>						
(=M. villosa)						
<i>Membranipora membranacea</i>						
<i>Membranipora tenuis</i>						
<i>Membranipora tuberculata</i>						
Scrupariidae						
<i>Scruparia ambigua</i>						
Thalamoporellidae						
<i>Thalamoporella californica</i>						
Ctenostomata						
Vesiculariidae						
<i>Zoobotryon verticillatum</i>	3					
CHORDATA						
Asciidiacea						
Aplousobranchia						
<i>Diplosoma macdonaldi</i> (=pizoni)	0.05g	<0.04g	0.01g			
Phlebobranchia						
<i>Ciona intestinalis</i>	138	120	316	28		
Stolidobranchia						
<i>Botryllus sp.</i>	0.17g	0.12g	0.01g	<0.01g		
CNIDARIA						
Anthozoa (Sea anemones)						
Hydrozoa-hydroida						
Campanulariidae						
<i>Obelia sp.</i>	<0.01g		<0.01g	<0.01g		
Plumulariidae						
<i>Aglaophenia sp.</i>						
Tubulariidae						
<i>Tubularia sp.</i>						
ECHINODERMATA						
Echinoidea (Sea urchin)						
MOLLUSCA						
Gastropoda						
Archaeogastropoda, unid.						
Acmaeidae (limpets)						
Atyidae						
<i>Haminoea sp.</i>						

## SETTLING RACK DATA

1978-1979

Aug Oct Dec Feb Apr Jun

## MOLLUSCA (cont.)

Calyptaeidae  
*Crepidula onyx*  
*Crepidula* sp.

Cephalaspidea, unid.

Columbellidae  
*Mitrella carinata*  
Nudibranchia, unid.  
Scaphandridae  
*Acteocina harpa*  
*Acteocina* sp.

Pelecypoda

1

Hiatellidae  
*Hiatella arctica*

Mytilidae  
*Mytilus edulis*

Pectinidae  
*Leptopecten latiauratus*

## NEMERTEA

## PHORONIDA

## PLATYHELMINTHES

Turbellaria

Polycladida

7

2

## PORIFERA

*Leucosolenia* sp.

## PROTOZOA

Foraminifera

PLANTS - Total wet weight all plants &lt;0.01g

ALGAE, unid.

## CHLOROPHYCOPHYTA CHLOROPHYCEAE

Uvales

*Enteromorpha* sp.*Ulva* sp.

## PHAEOPHYCOPHYTA PHAEOPHYCEAE

Ectocarpales-*Ectocarpus* sp.

## RHODOPHYCOPHYTA FLORIDEOPHYCEAE

Ceramiales-*Polysiphonia* sp.

&lt;0.01g

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SETTLING RACK DATA

1978-1979

STATION MDR-8

	Aug	Oct	Dec	Feb	Apr	Jun
<b>ANNELIDA POLYCHAETA</b>						
<b>Capitellidae</b>						
<i>Capitella capitata</i>		2				
<b>Chaetopteridae</b>						
<i>Chaetopterus variopedatus</i>						
<i>Phyllochaetopterus limiculus</i>						
<b>Chrysopetalidae</b>						
<i>Paleonotus bellis</i>						
<b>Cirratulidae</b>						
<i>Caulieriella alata</i>						
<i>Caulieriella hamata</i>						
<i>Chaetozone corona</i>						
<i>Tharyx</i> sp.						
<b>Cossuridae</b>						
<i>Cossura candida</i>						
<b>Ctenodrilidae</b>						
<i>Ctenodrilus serratus</i>						
<b>Dorvilleidae</b>						
<i>Ophryotrocha puerilis</i>						
<i>Schistomerings longicornis</i>						
<b>Hesionidae</b>						
<i>Gyptis brevipalpa</i>						
<i>Ophiodromus pugettensis</i>						
<b>Nereidae</b>						
<i>Neanthes arenaceodentata</i>			2			
<i>Platynereis bicanaliculata</i>						
<b>Opheliidae</b>						
<i>Armandia bioculata</i>						
<i>Polyopthalmus pictus</i>						
<b>Pectinariidae</b>						
<i>Pectinaria</i> sp.						
<b>Phyllodocidae</b>						
<i>Anaitides williamsi</i>						
<i>Eulalia aviculifera</i>						
<i>Eulalia</i> sp.						
<i>Eumida sanguinea</i>						
<b>Polynoidae</b>						
<i>Halosydna brevisetosa</i>						
<i>Harmothoe imbricata</i>						
<b>Sabellariidae</b>						
<i>Sabellaria alcocki</i>						
<i>Sabellaria</i> sp.						
<b>Sabellidae</b>	42					
<i>Sabella</i> sp.						
<b>Serpulidae</b>						
<i>Eupomatus gracilis</i>						
<i>Hydroides pacificus</i>	622					
<b>Spionidae</b>						
<i>Polydora ligni</i>	8					
<i>Polydora limicola</i>						
<i>Polydora socialis</i>						
<i>Polydora</i> sp.						
<i>Prionospio cirrifera</i>						

## SETTLING RACK DATA

1978-1979

STATION MDR-8

Aug Oct Dec Feb Apr Jun

POLYCHAETA (cont.)						
<i>Spionidae</i> (cont.)						
<i>Prionospio heterobranchia</i>						
<i>newportensis</i>						
<i>Prionospio</i> sp.						
<i>Pseudopolydora paucibranchiata</i>						
<i>Spiophanes</i> sp.						
<i>Streblospio benedicti</i>						
<i>Spirorbidae</i> , unid.	8					2
<i>Syllidae</i>						1
<i>Autolytus</i> sp.						
<i>Brania</i> sp.						
<i>Eusyllis assimilis</i>						
<i>Eusyllis</i> sp.						
<i>Exogone lourei</i>						
<i>Excogone</i> sp.						
<i>Typosyllis pulchra</i>						
<i>Typsyllis</i> sp.						
ANNELEDA OLIGOCHAETA						
ARTHROPODA CRUSTACEA						
<i>Amphipoda</i>						
<i>Caprellidea</i>						
<i>Aeginellidae</i>						
<i>Mayerella banksia</i>						
<i>Caprellidae</i>						
<i>Caprella californica</i>	100					7
<i>Caprella equilibra</i>						
<i>Caprella verrucosa</i>						
<i>Caprella</i> sp.	174					1
<i>Gammaridea</i> , unid.						
<i>Aoridae</i>						
<i>Aorides columbiae</i>						
<i>Amphilochidae</i>						
<i>Gitanopsis vilordes</i>						
<i>Ampithoidae</i>						
<i>Amphithoe plumulosa</i>						
<i>Amphithoe</i> sp.						
<i>Bateidae</i>						
<i>Bata transversa</i>						
<i>Corophiidae</i>						
<i>Corophium acherusicum</i>	124					24
<i>Ericthonius brasiliensis</i>	392					
<i>Ericthonius hunteri</i>						
<i>Ericthonius</i> sp.						
<i>Eusiridae</i>						
<i>Pontogenia rostrata</i>						
<i>Gammaridae</i>						
<i>Elasmopus rapax</i>	28					80
<i>Maera simile</i>						
<i>Melita sulca</i>						
<i>Hyalidae</i>						
<i>Hyale frequens</i>						
<i>Hyale nigra</i>						

## SETTLING RACK DATA

1978-1979

STATION MDR-8

	Aug	Oct	Dec	Feb	Apr	Jun
<b>ARTHROPODA CRUSTACEA (cont.)</b>						
Gammaridea (cont.)						
Isaeidae						
<i>Gammaropsis thompsoni</i>						
Ischyroceridae						
<i>Jassa falcata</i>	8					
<i>Microjassa litotes</i>						
Leucothoidae						
<i>Leucothoe alata</i>						
Podoceridae						
<i>Podocerus brasiliensis</i>						
<i>Podocerus cristatus</i>	276					15
<i>Podocerus</i> sp.						
Stenothoidae						
<i>Stenothoe valida</i>						
<i>Stenothoe</i> sp.						
Copepoda	158					1
Decapoda, unid.						
Decapod larvae						
Brachyura (crabs)						
Brachyura larvae (megalops)						
Grapsidae						
<i>Hemigrapsus oregonensis</i>						
<i>Pachygrapsus crassipes</i>						
Majidae						
<i>Loxorhynchus</i> sp.						
Caridea (shrimp)						
<i>Lysmata californica</i>						
Isopoda						
Arthuridae						
<i>Paranthura elegans</i>						
Ianiidae, unid.						
<i>Ianiropsis</i> sp.						
Idoteidae, unid.						
Jaeropsidae						
<i>Jaeropsis</i> sp.						
Limnoridae						
<i>Limnoria tripunctata</i>						
Munnidae						
<i>Munna</i> sp.						
Sphaeromatidae						
<i>Paracerceis sculpta</i>	18					167
Mysidacea (Mysids)						
Ostracoda						
Tanaidacea						
<i>Anatanais normani</i>	4					
<i>Leptochelia dubia</i>	2					
<i>Leptochelia</i> sp.						
Thoracica (Barnacles)						
<i>Balanus amphitrite</i>	24					
<i>Balanus tintinnabulum</i>						
<i>Balanus</i> sp.						
<i>Chthamalus fissus</i>						
<i>Chthamalus</i> sp.						

SETTLING RACK DATA

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STATION MDR-8

	Aug	Oct	Dec	Feb	Apr	Jun
<b>ARTHROPODA PYCNOGONIDA</b>						
ASCHELMINTHES Nematoda	4					
BRYOZOA (Counts=# of colonies)						
Cheilostomata, unid.						
Bicellariellidae						
<i>Bugula neritina</i>	62					
<i>Bugula stolonifera</i>	9					
(=B. californica)						
Celleporidae						
<i>Celleporaria brunnea</i>						
Cheiloporinidae						
<i>Cryptosula pallasiana</i>						
<i>Watersipora arcuata</i>						
Membraniporidae						
<i>Membranipora isabelliana</i>						
(=M. villosa)						
<i>Membranipora membranacea</i>						
<i>Membranipora tenuis</i>						
<i>Membranipora tuberculata</i>						
Scrupariidae						
<i>Scruparia ambigua</i>						
Thalamoporellidae						
<i>Thalamoporella californica</i>						
Ctenostomata						
Vesiculariidae						
<i>Zoobotryon verticillatum</i>						
<b>CHORDATA</b>						
Asciidiacea						
Aplousobranchia						
<i>Diplosoma macdonaldi</i> (=pizoni) <0.01g						
Phlebobranchia						
<i>Ciona intestinalis</i>	1086					4
Stolidobranchia						
<i>Botryllus</i> sp.	0.28g					
<b>CNIDARIA</b>						
Anthozoa (Sea anemones)						
Hydrozoa-hydrida						
Campanulariidae						
<i>Obelia</i> sp.						
Plumulariidae						
<i>Aglaophenia</i> sp.						
Tubulariidae						
<i>Tubularia</i> sp.						
<b>ECHINODERMATA</b>						
Echinoidea (Sea urchin)						
<b>MOLLUSCA</b>						
Gastropoda						
Archaeogastropoda, unid.						
Acmaeidae (limpets)						
Atyidae						
<i>Haminoea</i> sp.						

SETTLING RACK DATA

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1978-1979Page 5 of 5  
STATION MDR-8

Aug Oct Dec Feb Apr Jun

MOLLUSCA (cont.)

*Calyptraeidae*  
*Crepidula onyx*  
*Crepidula* sp.  
*Cephalaspidea*, unid.  
*Columbellidae*  
*Mitrella carinata*  
*Nudibranchia*, unid.  
*Scaphandridae*

*Acteocina harpa*  
*Acteocina* sp.

*Pelecypoda*

*Hiatellidae*  
*Latella arctica*

*Mytilidae*  
*Mytilus edulis*

*Pectinidae*  
*Leptopecten latiauratus*

## NEMERTEA

## PHORONIDA

## PLATYHELMINTHES

## Turbellaria

## Polycladida

12

## PORIFERA

*Leucosolenia* sp.

## PROTOZOA

## Foraminifera

PLANTS - Total wet weight all plants <0.02g  
 ALGAE, unid.

## CHLOROPHYCOPHYTA CHLOROPHYCEAE

## Uvales

*Enteromorpha* sp.

*Ulva* sp.

## PHAEOPHYCOPHYTA PHAEOPHYCEAE

Ectocarpales-*Ectocarpus* sp.

## RHODOPHYCOPHYTA FLORIDEOPHYCEAE

Ceramiales-*Polysiphonia* sp. <0.02g

## SETTLING RACK DATA

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STATION MDR-9

	Aug	Oct	Dec	Feb	Apr	Jun
<b>ANNELIDA POLYCHAETA</b>						
Capitellidae						
<i>Capitella capitata</i>	2				36	
Chaetopteridae						
<i>Chaetopterus variopedatus</i>						
<i>Phyllochaetopterus limicolus</i>						
Chrysopetalidae						
<i>Paleonotus bellis</i>						
Cirratulidae						
<i>Caulleriella alata</i>						
<i>Caulleriella hamata</i>						
<i>Chaetozone corona</i>					1	
<i>Tharyx</i> sp.						
Cossuridae						
<i>Cossura candida</i>						
Ctenodrilidae						
<i>Ctenodrilus serratus</i>						1
Dorvilleidae						
<i>Ophryotrocha puerilis</i>	2				5	
<i>Schistomerings longicornis</i>					1	
Hesionidae						
<i>Gyptis brevipalpa</i>						
<i>Ophiodromus pugettensis</i>						
Nereidae						
<i>Neanthes arenaceodentata</i>						
<i>Platynereis bicanaliculata</i>						
Opheliidae						
<i>Armandia bioculata</i>						
<i>Polyopthalmus pictus</i>				1		
Pectinariidae						
<i>Pectinaria</i> sp.						
Phyllodocidae						
<i>Anaitides williamsi</i>						
<i>Eulalia aviculifera</i>						
<i>Eulalia</i> sp.						
<i>Eunida sanguinea</i>						
Polynoidae						
<i>Halosydna brevisetosa</i>						
<i>Harmothoe imbricata</i>						
Sabellariidae						
<i>Sabellaria alcocki</i>						
<i>Sabellaria</i> sp.						
Sabellidae	13		3			
<i>Sabella</i> sp.						
Serpulidae						
<i>Eupomatus gracilis</i>						
<i>Hydroides pacificus</i>	1388		558			
Spionidae						
<i>Polydora ligni</i>	5			1		1
<i>Polydora limicola</i>						
<i>Polydora socialis</i>						
<i>Polydora</i> sp.						
<i>Prionospio cirrifera</i>				2		

## SETTLING RACK DATA

1978-1979

STATION MDR-9

	Aug	Oct	Dec	Feb	Apr	Jun
POLYCHAETA (cont.)						
<i>Spionidae</i> (cont.)						
<i>Prionospio heterobranchia</i>						
<i>newportensis</i>						
<i>Prionospio</i> sp.						
<i>Pseudopolydora paucibranchiata</i>						
<i>Spiophanes</i> sp.						
<i>Streblospio benedicti</i>						
<i>Spirorbidae</i> , unid.	40	8	1	3	40	
<i>Syllidae</i>	3		1	12	10	
<i>Autolytus</i> sp.						
<i>Brania</i> sp.						
<i>Eusyllis assimilis</i>						
<i>Eusyllis</i> sp.						
<i>Exogone lourei</i>						
<i>Exogone</i> sp.						
<i>Typosyllis pulchra</i>						
<i>Typosyllis</i> sp.						
ANNELEA OLICOCHAETA						
ARTHROPODA CRUSTACEA						
<i>Amphipoda</i>						
<i>Caprellidea</i>						
<i>Aeginellidae</i>						
<i>Mayerella banksia</i>						
<i>Caprellidae</i>						
<i>Caprella californica</i>		4		4		
<i>Caprella equilibra</i>						
<i>Caprella verrucosa</i>						
<i>Caprella</i> sp.	1					
<i>Gammaridea</i> , unid.						
<i>Aoridae</i>						
<i>Aorides columbiae</i>						
<i>Amphilochidae</i>						
<i>Gitanopsis vilordes</i>						
<i>Ampithoidae</i>						
<i>Amphithoe plumulosa</i>						
<i>Amphithoe</i> sp.						
<i>Bateidae</i>						
<i>Bata transversa</i>						
<i>Corophiidae</i>				19		
<i>Corophium acherusicum</i>	7	8	8			
<i>Ericthonius brasiliensis</i>	30	18	7		16	
<i>Ericthonius hunteri</i>						
<i>Ericthonius</i> sp.						
<i>Eusiridae</i>						
<i>Pontogenia rostrata</i>						
<i>Gammaridae</i>						
<i>Elasmopus rapax</i>	21	3	3	1		
<i>Maera simile</i>						
<i>Melita sulca</i>						
<i>Hyalidae</i>						
<i>Hyale frequens</i>						
<i>Hyale nigra</i>						

## SETTLING RACK DATA

1978-1979

STATION MDR-9

	Aug	Oct	Dec	Feb	Apr	Jun
ARTHROPODA CRUSTACEA (cont.)						
Gammaridea (cont.)						
Isaeidae						
<i>Gammaropsis thompsoni</i>						
Ischyroceridae						
<i>Jassa falcata</i>						
<i>Microjassa litotes</i>						
Leucothoidae						
<i>Leucothoe alata</i>						
Podoceridae						
<i>Podocephalus brasiliensis</i>						
<i>Podocephalus cristatus</i>	19	40	18	2		
<i>Podocephalus sp.</i>						
Stenothoidae						
<i>Stenothoe valida</i>						
<i>Stenothoe sp.</i>						
Copepoda	14	4	19	8	36	
Decapoda, unid.						
Decapod larvae						
Brachyura (crabs)						
Brachyura larvae (megalops)						
Grapsidae						
<i>Hemigrapsus oregonensis</i>						
<i>Pachygrapsus crassipes</i>		1			4	
Majidae						
<i>Loxorhynchus sp.</i>						
Caridea (shrimp)						
<i>Lysmata californica</i>						
Isopoda						
Arthuridae						
<i>Paranthura elegans</i>						
Ianiridae, unid.						
<i>Ianiropsis sp.</i>						
Idoteidae, unid.						
Jaeropsidae						
<i>Jaeropsis sp.</i>						
Limnoridae						
<i>Limnoria tripunctata</i>		1				
Munnidae						
<i>Munna sp.</i>						
Sphaeromatidae						
<i>Paracerceis sculpta</i>	35	306	27	14	5	
Mysidacea (Mysids)						
Ostracoda					1	
Tanaidacea						
<i>Anatanais normani</i>	13				4	
<i>Leptochelia dubia</i>						
<i>Leptochelia sp.</i>						
Thoracica (Barnacles)						
<i>Balanus amphitrite</i>						
<i>Balanus tintinnabulum</i>						
<i>Balanus sp.</i>						
<i>Chthamalus fissus</i>						
<i>Chthamalus sp.</i>						

## SETTLING RACK DATA

1978-1979

STATION MDR-9

Aug Oct Dec Feb Apr Jun

## ARTHROPODA PYCNOGONIDA

## ASCHELMINTHES Nematoda

## BRYOZOA (Counts=# of colonies)

Cheilostomata, unid.

## Bicellariellidae

*Bugula neritina*

1

*Bugula stolonifera*(*B. californica*)

1

## Celleporidae

*Celleporaria brunnea*

1

## Cheiloporinidae

*Cryptosula pallasiana*

11

*Watersipora arcuata*

56

## Membraniporidae

*Membranipora isabellaeana*(*M. villosa*)*Membranipora membranacea**Membranipora tenuis**Membranipora tuberculata*

## Scrupariidae

*Scruparia ambigua*

## Thalamoporellidae

*Thalamoporella californica*

## Ctenostomata

## Vesiculariidae

*Zoobotryon verticillatum*

## CHORDATA

## Asciidiacea

## Aplousobranchia

*Diplosoma macdonaldi* (= *pizoni*)

&lt;0.01g

## Phlebobranchia

*Ciona intestinalis*

322 46 40 43 733

## Stolidobranchia

*Botryllus* sp.

&lt;0.01g &lt;0.01g &lt;0.01g &lt;0.01g

## CNIDARIA

## Anthozoa (Sea anemones)

## Hydrozoa-hydroidea

## Campanulariidae

*Obelia* sp.

&lt;0.01g &lt;0.01g &lt;0.01g

## Plumulariidae

*Aglaophenia* sp.

## Tubulariidae

*Tubularia* sp.

## ECHINODERMATA

## Echinoidea (Sea urchin)

## MOLLUSCA

## Gastropoda

## Archaeogastropoda, unid.

## Acmaeidae (limpets)

## Atyidae

*Haminoea* sp.

## SETTLING RACK DATA

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Aug Oct Dec Feb Apr Jun

MOLLUSCA (cont.)

Calyptaeidae  
*Crepidula onyx*  
*Crepidula sp.*  
 Cephalaspidea, unid.  
 Columbellidae  
*Mitrella carinata*  
 Nudibranchia, unid.  
 Scaphandridae  
*Acteocina harpa*  
*Acteocina sp.*

Pelecypoda  
 Hiatellidae  
*Hiatella arctica*  
 Mytilidae  
*Mytilus edulis*

Pectinidae  
*Leptopecten latiauratus*

## NEMERTEA

## PHORONIDA

## PLATYHELMINTHES

Turbellaria  
*Polycladida*

2 1 1 4

## PORIFERA

*Leucosolenia sp.*

## PROTOZOA

Foraminifera

PLANTS - Total wet weight all plants  
 ALGAE, unid.

2

## CHLOROPHYCOPHYTA CHLOROPHYCEAE

Uvales  
*Enteromorpha sp.*  
*Ulva sp.*

PHAEOPHYCOPHYTA PHAEOPHYCEAE  
*Ectocarpales-Ectocarpus sp.*  
 RHODOPHYCOPHYTA FLORIDEOPHYCEAE  
*Ceramiales-Polysiphonia sp.*

	Aug	Oct	Dec	Feb	Apr	Jun
<b>ANNELIDA POLYCHAETA</b>						
Capitellidae						
<i>Capitella capitata</i>	4			28	15	
Chaetopteridae						
<i>Chaetopterus variopedatus</i>						
<i>Phyllochaetopterus limicola</i>						
Chrysopetalidae						
<i>Paleonotus bellis</i>						
Cirratulidae						
<i>Caulieriella alata</i>						
<i>Caulieriella hamata</i>						
<i>Chaetozone corona</i>						
<i>Tharyx</i> sp.						
Cossuridae						
<i>Cossura candida</i>						
Ctenodrilidae						
<i>Ctenodrilus serratus</i>						1
Dorvilleidae						
<i>Ophryotrocha puerilis</i>	1		1			
<i>Schistomerings longicornis</i>						
Hesionidae						
<i>Gyptis brevipalpa</i>						
<i>Ophiodromus pugettensis</i>					1	
Nereidae						
<i>Neanthes arenaceodentata</i>						
<i>Platynereis bicanaliculata</i>						
Opheliidae						
<i>Armandia biculata</i>						
<i>Polyopthalmus pictus</i>						
Pectinariidae						
<i>Pectinaria</i> sp.						
Phyllodocidae						
<i>Anaitides williamsi</i>						1
<i>Eulalia aviculifera</i>						
<i>Eulalia</i> sp.						
<i>Eunida sanguinea</i>						
Polynoidae						
<i>Balosydna brevisetosa</i>	1					
<i>Harmothoe imbricata</i>						
Sabellariidae						
<i>Sabellaria alcocki</i>						
<i>Sabellaria</i> sp.						
Sabellidae			44			
<i>Sabella</i> sp.						
Serpulidae						
<i>Eupomatus gracilis</i>						
<i>Hydrodoides pacificus</i>	4965	1751				
Spionidae						
<i>Polydora ligni</i>	15				2	4
<i>Polydora limicola</i>						2
<i>Polydora socialis</i>						
<i>Polydora</i> sp.						
<i>Prionospio cirrifera</i>						

SETTLING RACK DATA

1978-1979

STATION MDR-11

	Aug	Oct	Dec	Feb	Apr	Jun
POLYCHAETA (cont.)						
Spionidae (cont.)						
<i>Prionospio heterobranchia</i>						
<i>newportensis</i>		1				
<i>Prionospio</i> sp.						
<i>Pseudopolydora paucibranchiata</i>						
<i>Spiophanes</i> sp.						
<i>Streblospio benedicti</i>						
<i>Spirorbidae</i> , unid.		8	1		4	
Syllidae	30	15	3	4	14	
<i>Autolytus</i> sp.						
<i>Brania</i> sp.						
<i>Eusyllis assimilis</i>						
<i>Eusyllis</i> sp.						
<i>Exogone lourei</i>						
<i>Exogene</i> sp.						
<i>Typosyllis pulchra</i>						
<i>Typosyllis</i> sp.						
ANNELEA OLIGOCHAETA						
ARTHROPODA CRUSTACEA						
Amphipoda						
Caprellidea						
Aeginellidae						
<i>Mayerella banksia</i>						
Caprellidae						
<i>Caprella californica</i>	2	3	12			
<i>Caprella equilibra</i>						
<i>Caprella verrucosa</i>		2				
<i>Caprella</i> sp.	5	7			1	
Gammaridea, unid.						
Aoridae						
<i>Aorides columbiae</i>						
Amphilochidae						
<i>Gitanopsis vilordes</i>						
Ampithoidae						
<i>Amphithoe plumulosa</i>						
<i>Amphithoe</i> sp.						
Bateidae						
<i>Bata transversa</i>						
Corophiidae						
<i>Corophium acherusicum</i>	23	36	13	27	133	
<i>Ericthonius brasiliensis</i>	58	10	2		2	
<i>Ericthonius hunteri</i>						
<i>Ericthonius</i> sp.						
Eusiridae						
<i>Pontogenia rostrata</i>						
Gammaridae						
<i>Elasmopus rapax</i>	15	83	8		3	
<i>Maera simile</i>						
<i>Melita sulca</i>						
Hyalidae						
<i>Hyale frequens</i>						
<i>Hyale nigra</i>						

## SETTLING RACK DATA

1978-1979

STATION MDR-11

	Aug	Oct	Dec	Feb	Apr	Jun
ARTHROPODA CRUSTACEA (cont.)						
Gammaridea (cont.)						
Isaeidae						
<i>Gammaropsis thompsoni</i>						
Ischyroceridae						
<i>Jassa falcata</i>	25			1		
<i>Microjassa litotes</i>						
Leucothoidae						
<i>Leucothoe alata</i>			1			
Podoceridae						
<i>Podocerus brasiliensis</i>						
<i>Podocerus cristatus</i>	103	64	31	1	7	
<i>Podocerus</i> sp.						
Stenothoidae						
<i>Stenothoe valida</i>			1			
<i>Stenothoe</i> sp.						
Copepoda	26	33	9	5	29	
Decapoda, unid.						
Decapod larvae		1				
Brachyura (crabs)						
Brachyura larvae (megalops)						
Grapsidae						
<i>Hemigrapsus oregonensis</i>		1			1	
<i>Pachygrapsus crassipes</i>						
Majidae						
<i>Loxorhynchus</i> sp.						
Caridea (shrimp)						
<i>Lysmata californica</i>						
Isopoda						
Arthuridae						
<i>Paranthura elegans</i>						
Ianiidae, unid.						
<i>Ianiropsis</i> sp.						
Idoteidae, unid.						
Jaeropsidae						
<i>Jaeropsis</i> sp.						
Limnoridae						
<i>Limnoria tripunctata</i>					1	
Munnidae						
<i>Munna</i> sp.						
Sphaeromatidae						
<i>Paracerceis sculpta</i>	95	241		35	101	
Mysidacea (Mysids)						
Ostracoda						
Tanaidacea						
<i>Anatanais normani</i>	1				24	
<i>Leptochelia dubia</i>						
<i>Leptochelia</i> sp.						
Thoracica (Barnacles)						
<i>Balanus amphitrite</i>						
<i>Balanus tintinnabulum</i>						
<i>Balanus</i> sp.						
<i>Chthamalus fissus</i>						
<i>Chthamalus</i> sp.						

## SETTLING RACK DATA

1978-1979

STATION MDR-11

Aug Oct Dec Feb Apr Jun

## ARTHROPODA PYCNOCONIDA

ASCHELMINTHES Nematoda

1 1

BRYOZOA (Counts=# of colonies)

Cheitostomata, unid.

Bicellariellidae

*Bugula neritina*

1

*Bugula stolonifera*

(=B. californica)

Celleporidae

*Celleporaria brunnea*

Cheioporinidae

*Cryptosula pallasiana**Watersipora arcuata*

Membraniporidae

*Membranipora isabelleana*

(=M. villosa)

*Membranipora membranacea**Membranipora tenuis**Membranipora tuberculata*

Scrupariidae

*Scruparia ambigua*

Thalamoporellidae

*Thalamoporella californica*

Ctenostomata

Vesiculariidae

*Zoobotryon verticillatum*

## CHORDATA

Asciidiacea

Aplousobranchia

*Diplosoma macdonaldi* (=pizoni)

0.02g 0.02g &lt;0.01g

Phlebobranchia

*Ciona intestinalis*

443 6 8 1136

Stolidobranchia

*Botryllus* sp.

&lt;0.01g

## CNIDARIA

Anthozoa (Sea anemones)

1

Hydrozoa-hydroida

Campanulariidae

*Obelia* sp.

&lt;0.01g

Plumulariidae

*Aglaophenia* sp.

&lt;0.01g &lt;0.01g

Tubulariidae

*Tubularia* sp.

## ECHINODERMATA

Echinoidea (Sea urchin)

## MOLLUSCA

Gastropoda

Archaeogastropoda, unid.

Acmaeidae (limpets)

Atyidae

*Haminoea* sp.

SETTLING RACK DATA

B584

1978-1979

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STATION MDR-J1

Aug Oct Dec Feb Apr Jun

<b>MOLLUSCA (cont.)</b>						
Calyptaeidae						
<i>Crepidula onyx</i>						
<i>Crepidula</i> sp.						
Cephalaspidea, unid.						
Columbellidae						
<i>Mitrella carinata</i>						
Nudibranchia, unid.						
Scaphandridae						
<i>Acteocina harpa</i>						
<i>Acteocina</i> sp.						
Pelecypoda						
Hiatellidae						
<i>Hiatella arctica</i>						
Mytilidae						
<i>Mytilus edulis</i>						
Pectinidae						
<i>Leptopecten latiauratus</i>						
NEMERTEA						
PHORONIDA						
PLATYHELMINTHES						
Turbellaria						
Polycladida	16	8	2	2	14	
PORIFERA						
<i>Leucosolenia</i> sp.						
PROTOZOA						
Foraminifera						
PLANTS - Total wet weight all plants			1		15	
ALGAE, unid.						
CHLOROPHYCOPHYTA CHLOROPHYCEAE						
Uvales						
<i>Enteromorpha</i> sp.						
<i>Ulva</i> sp.						
PHAEOPHYCOPHYTA PHAEOPHYCEAE						
Ectocarpales- <i>Ectocarpus</i> sp.						
RHODOPHYCOPHYTA FLORIDEOPHYCEAE						
Ceramiales- <i>Polysiphonia</i> sp.	<0.01g					

