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# **Epibenthic Sled Samples from Campbell River Estuary and Discovery Passage 1984**

B. A. Kask and T. J. Brown

Department of Fisheries and Oceans  
Fisheries Research Branch  
Pacific Biological Station  
Nanaimo, British Columbia V9R 5K6

November 1986

**Canadian Data Report of  
Fisheries and Aquatic Sciences  
No. 612**

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Canada

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Cat. No. Fs 97-13/612E      ISSN 0706-6465

Correct citation for this publication:

Kask, B. A. and T. J. Brown. 1986. Epibenthic sled samples from Campbell River estuary and Discovery Passage 1984. Can. Data Rep. Fish. Aquat. Sci. 612: 141 p.

#### ABSTRACT

Kask, B. A. and T. J. Brown. 1986. Epibenthic sled samples from Campbell River estuary and Discovery Passage 1984. Can. Data Rep. Fish. Aquat. Sci. 612: 141 p.

The epibenthic nearshore community was sampled on seventeen trips to the Campbell River area from January to September 1984, usually in conjunction with beach seining. The data from the two hundred and ninety-six samples collected are presented here.

#### RESUME

Kask, B. A. and T. J. Brown. 1986. Epibenthic sled samples from Campbell River estuary and Discovery Passage 1984. Can. Data Rep. Fish. Aquat. Sci. 612: 141 p.

La communauté épibenthique se trouvant près de la côte a été échantillonnée lors de dix-sept excursions dans le secteur de la Rivière Campbell entre janvier et septembre 1984, habituellement de concert avec la pêche à la senne de rivage. On présente ici les données tirées des deux cent quatre-vingt seize échantillons recueillis.

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## INTRODUCTION

This is the third in a series of data records on the epibenthic nearshore community of the Campbell River estuary and Discovery Passage.

In early 1982, four new intertidal islands were created in the Campbell River estuary in the area previously utilized for log booming and storage. Beginning in March 1982, epibenthic sled samples were collected in the new islands and at surrounding sites to monitor colonization of the newly created habitat and compare the availability of food organisms to the juvenile salmon. Most samples were collected in conjunction with beach seining. In 1982, one hundred and forty-six epibenthic samples were collected (Kask et al. 1984, 1986). In 1983, this was increased to two hundred and forty-two samples (Kask et al. 1985, in prep.).

During 1984, epibenthic samples were collected on seventeen trips between January and September. As in previous years, three zones were sampled - the estuarine zone consisting of the intertidal area at the mouth of the Campbell River, the transition zone immediately offshore of the river mouth and subjected to freshwater influence, and the marine zone in Discovery Passage and Seymour Narrows. Samples of juvenile salmon were taken at the same time on all but the September 11 trip (Brown et al. 1984).

## MATERIALS AND METHODS

The nearshore epibenthos was sampled using a sled described by Sibert et al. (1977). This sled had a 10 cm x 10 cm mouth opening and was fitted with a 100 $\mu$  mesh net. Duplicate five meter tows were made in the shallow water at each site, sampling an area of 0.5 m<sup>2</sup>. For comparison, samples were also collected at high tide just offshore on the bottom at three sites on 28 August and 25 September. A rose bengal and formalin solution was used to preserve the samples. Surface temperature and salinity were usually recorded with a Beckman RS-5 salinometer.

In the laboratory the samples were decanted through a 68 $\mu$  sieve and counted using a dissecting microscope fitted with a rotary counter. Some samples were split with a Folsom splitter and an appropriate correction factor applied to the resultant counts. Organisms were identified as far as possible in the time available and one hundred each of the harpacticoids and calanoids were retained for species identification. These copepods have not been identified further at this time.

## RESULTS

Five stations were sampled in the estuarine (Fig. 1), three in the transition and two in the marine zone (Fig. 2). The greatest number of samples were taken in the estuary (148), followed by the transition (92) and marine zones (56). Altogether, two hundred and ninety-six samples were collected. Station descriptions for each zone may be found in Tables 1, 3, and 5. Tables 2, 4, and 6 list the samples by date, time, location and station number. Tide type and height and surface temperature and salinity values are also presented. The notation "HT" indicates the samples taken at high tide when the temperature and salinity values were recorded offshore on the bottom (1.5-2.5 m depth). Raw counts and numbers of epifauna  $m^{-2}$  as well as station summaries are listed in Tables 7 to 12.

## ACKNOWLEDGMENTS

We would like to thank R. Clarke, M. Hudson, S. Milligan, and G. Bainbridge for counting the samples. Dr. J. R. Sibert provided the computer programs used in the analysis. B. Chang, P. Arndt, M. Kotyk, R. Lauzier, C. McPherson, Drs. C. D. McAllister, J. S. Macdonald, and C. D. Levings assisted in the field sampling.

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Table 1. Station descriptions, estuarine zone.

Station no.	Station name	Habitat type
1	Mother Ramp	Beside seaplane ramp, west side of Tyee Spit; sand, marsh at high elevation; moderate slope.
7	North Baikie Mouth	South shore of north arm of Baikie's Slough at confluence with the Campbell River; marsh at higher elevations, eelgrass at lower; moderate dropoff.
10	South Baikie Mouth	South shore of south arm of Baikie's Slough at confluence with the Campbell River; sand; moderate dropoff.
11	Island No. 1	Bay on Island No. 1; transplanted marsh at higher elevations, mud/wood debris at lower elevations; shallow slope.
17	Island No. 3	Experimental tidal groove on Island No. 3, lower groove spit side; transplanted marsh at higher elevations, gravel, mud/wood/algae at lower elevations; shallow slope.

Table 2. Campbell River 1984 estuarine zone. Date each station was visited, tide type and height and surface salinity and temperature.

Date	Time (PST)	Location	Stn. no.	Tide		Surface	
				Type	Ht. (m)	Sal. (°/oo)	Temp. (°C)
9 January	1825	North Baikie Mouth	7	Flooding	2.9	0.3	4.8
9 January	1905	Island No. 1	11	Flooding	3.0	0.3	4.7
9 January	1950	Mother Ramp	1	Flooding	3.1	1.0	4.3
10 January	1810	Island No. 3	17	Flooding	2.6	0.0	3.8
6 February	2205	North Baikie Mouth	7	Ebbing	3.0	0.5	3.7
6 February	2250	Mother Ramp	1	Ebbing	2.8	1.5	3.9
7 February	0005	Island No. 3	17	Ebbing	2.4	0.0	3.5
7 March	1345	North Baikie Mouth	7	Ebbing	2.0	0.6	5.3
7 March	1425	Mother Ramp	1	Ebbing	1.9	0.8	4.8
7 March	1630	Island No. 3	17	Flooding	2.3	0.3	4.9
7 March	1700	Island No. 1	11	Flooding	2.5	-	-
20 March	1400	North Baikie Mouth	7	Ebbing	1.4	1.2	5.4
20 March	1505	Island No. 3	17	Flooding	1.5	0.3	5.1
20 March	1540	Island No. 1	11	Flooding	1.8	0.3	5.4
20 March	1630	Mother Ramp	1	Flooding	2.3	0.7	5.4
3 April	1455	South Baikie Mouth	10	Flooding	2.0	0.2	6.5
3 April	1520	North Baikie Mouth	7	Flooding	2.2	1.0	7.1
3 April	1545	Mother Ramp	1	Flooding	2.4	0.4	6.1
4 April	1550	Island No. 3	17	Flooding	2.2	0.2	8.2
4 April	1630	Island No. 1	11	Flooding	2.5	1.0	9.0
16 April	1330	North Baikie Mouth	7	Flooding	1.4	1.0	8.3
16 April	1555	Mother Ramp	1	Flooding	3.1	3.5	8.5
17 April	1530	Island No. 3	17	Flooding	2.1	0.4	8.7
17 April	1605	Island No. 1	11	Flooding	2.5	0.4	7.8

Table 2 (cont'd)

Date	Time (PST)	Location	Stn. no.	Tide		Surface	
				Type	Ht. (m)	Sal. (°/oo)	Temp. (°C)
1 May	1500	Island No. 3	17	Flooding	2.5	0.2	9.0
1 May	1515	Island No. 1	11	Flooding	2.7	2.2	9.0
2 May	1455	Mother Ramp	1	Flooding	2.0	0.6	9.0
2 May	1545	North Baikie Mouth	7	Flooding	2.5	0.8	9.2
15 May	1235	North Baikie Mouth	7	Flooding	0.6	1.6	10.6
15 May	1445	Island No. 3	17	Flooding	2.3	0.0	12.5
15 May	1520	Island No. 1	11	Flooding	2.7	0.0	11.0
15 May	1640	Mother Ramp	1	Flooding	3.8	2.0	11.3
4 June	1235	North Baikie Mouth	7	Ebbing	1.3	3.6	14.2
4 June	1405	Mother Ramp	1	Ebbing	0.7	5.0	14.3
4 June	1735	Island No. 3	17	Flooding	2.1	0.5	12.8
6 June	1130	Island No. 1	11	Ebbing	2.7	5.5	13.9
18 June	1350	North Baikie Mouth	7	Ebbing	1.2	-	-
18 June	1430	Mother Ramp	1	Flooding	1.1	2.1	15.2
18 June	1715	Island No. 3	17	Flooding	2.4	0.0	15.0
18 June	1745	Island No. 1	11	Flooding	2.6	1.8	15.2
3 July	1205	North Baikie Mouth	7	Ebbing	1.6	-	-
3 July	1300	Mother Ramp	1	Ebbing	1.2	9.9	15.0
3 July	1740	Island No. 3	17	Flooding	2.5	0.3	15.2
3 July	1805	Island No. 1	11	Flooding	2.7	2.9	14.5
17 July	1350	North Baikie Mouth	7	Flooding	1.3	1.6	17.8
17 July	1450	Mother Ramp	1	Flooding	1.7	0.6	17.9
17 July	1600	Island No. 1	11	Flooding	2.2	3.0	20.7
17 July	1700	Island No. 3	17	Flooding	2.7	0.2	18.2

Table 2 (cont'd)

Date	Time (PST)	Location	Stn. no.	Tide		Surface	
				Type	Ht. (m)	Sal. (°/oo)	Temp. (°C)
31 July	1320	North Baikie Mouth	7	Flooding	0.9	1.9	17.6
31 July	1400	Mother Ramp	1	Flooding	1.3	1.4	18.2
31 July	1635	Island No. 1	11	Flooding	2.7	2.6	17.7
1 August	1640	Island No. 3	17	Flooding	2.7	0.0	18.5
14 August	1145	North Baikie Mouth	7	Ebbing	1.6	1.8	16.6
14 August	1405	Island No. 3	17	Flooding	2.0	0.8	15.8
14 August	1450	Mother Ramp	1	Flooding	2.3	1.0	16.1
14 August	1550	Island No. 1	11	Flooding	2.7	1.1	16.3
28 August	1235	North Baikie Mouth	7	Flooding	1.2	2.3	16.3
28 August	1440	Mother Ramp	1	Flooding	2.3	1.6	15.7
28 August	1520	Island No. 3	17	Flooding	2.7	0.9	16.1
28 August	1545	Island No. 1	11	Flooding	2.9	3.5	15.6
28 August	*HT1610	North Baikie Mouth	7	Flooding	3.2	2.1	-
28 August	HT1655	Mother Ramp	1	Flooding	3.5	2.5	-
28 August	HT1700	Island No. 3	17	Flooding	3.6	-	-
11 September	1336	Mother Ramp	1	Flooding	2.4	-	-
11 September	1345	Island No. 1	11	Flooding	2.5	-	-
11 September	1402	Island No. 3	17	Flooding	2.6	-	-
11 September	1408	North Baikie Mouth	7	Flooding	2.7	-	-
25 September	1300	Mother Ramp	1	Flooding	2.1	1.5	14.9
25 September	1311	North Baikie Mouth	7	Flooding	2.2	1.5	14.9
25 September	1324	Island No. 3	17	Flooding	2.4	0.3	15.3
25 September	1347	Island No. 1	11	Flooding	2.5	0.2	15.2
25 September	*HT1520	North Baikie Mouth	7	Flooding	3.5	27.4	10.8
26 September	HT1430	Mother Ramp	1	Flooding	3.1	16.4	12.2
26 September	HT1530	Island No. 3	17	Flooding	3.6	30.0	10.0

\*HT indicates high tide sample.

Table 3. Station descriptions, transition zone.

Station no.	Station name	Habitat type
20	Boat Ramp	Next to boat launch ramp on east side of Tyee Spit; gravel/cobble beach; moderate slope.
21	McDonald's	Est. 200 m north of ferry dock Campbell River; gravel/cobble; moderate slope. Exposed on tide levels <2 m; adjacent to rip-rap.
34	Painter's Channel	Eastern shore on a channel near Painter's Lodge exposed on tides <2 m; mud/sand with eelgrass in lower elevation; shallow slope.

Table 4. Campbell River 1984 transition zone. Date each station was visited, tide type and height and surface salinity and temperature.

Date	Time (PST)	Location	Stn. no.	Tide		Surface	
				Type	Ht. (m)	Sal. (‰)	Temp. (°C)
9 January	2035	Boat Ramp	20	Flooding	3.2	28.9	7.5
7 February	1435	Boat Ramp	20	Ebbing	2.8	31.5	7.7
7 March	1515	Boat Ramp	20	Flooding	1.9	29.7	8.2
7 March	1530	McDonalds	21	Flooding	2.0	32.0	8.4
8 March	1545	Painter's Channel	34	Flooding	1.8	2.6	6.3
20 March	1700	Boat Ramp	20	Flooding	2.7	26.5	7.6
21 March	1520	McDonalds	21	Flooding	1.2	-	9.0
21 March	1615	Painter's Channel	34	Flooding	1.6	-	7.0
3 April	1625	Boat Ramp	20	Flooding	2.8	30.8	8.5
4 April	1350	Painter's Channel	34	Flooding	1.4	4.0	10.0
4 April	1700	McDonalds	21	Flooding	2.8	27.4	9.3
16 April	1410	Painter's Channel	34	Flooding	1.9	22.4	13.1
16 April	1435	McDonalds	21	Flooding	2.1	28.1	9.4
16 April	1510	Boat Ramp	20	Flooding	2.6	27.5	9.0
2 May	1327	McDonalds	21	Flooding	1.2	23.6	9.4
2 May	1357	Boat Ramp	20	Flooding	1.5	26.3	8.9
2 May	1425	Painter's Channel	34	Flooding	1.8	24.8	10.1
16 May	1430	Painter's Channel	34	Flooding	1.5	26.5	12.9
16 May	1510	McDonalds	21	Flooding	2.0	23.4	13.7
16 May	1555	Boat Ramp	20	Flooding	2.4	26.5	10.4
4 June	1550	Painter's Channel	34	Flooding	1.3	17.6	11.6
4 June	1625	McDonalds	21	Flooding	1.6	28.0	11.8
5 June	1700	Boat Ramp	20	Flooding	1.7	27.5	9.8
19 June	1600	Painter's Channel	34	Flooding	1.8	22.1	14.2
19 June	1642	McDonalds	21	Flooding	2.0	29.7	13.7
19 June	1715	Boat Ramp	20	Flooding	2.3	30.7	11.0

Table 4 (cont'd.).

Date	Time (PST)	Location	Stn. no.	Tide		Surface	
				Type	Ht. (m)	Sal. (‰)	Temp. (°C)
3 July	1610	Painter's Channel	34	Flooding	1.7	9.8	17.4
3 July	1655	Boat Ramp	20	Flooding	2.1	29.7	11.5
5 July	0725	McDonalds	21	Flooding	2.8	28.8	12.4
18 July	1525	McDonalds	21	Flooding	2.1	28.9	12.9
18 July	1605	Boat Ramp	20	Flooding	2.3	28.1	14.1
18 July	1705	Painter's Channel	34	Flooding	2.7	29.9	12.3
31 July	1520	Boat Ramp	20	Flooding	2.0	25.7	14.9
31 July	1550	McDonalds	21	Flooding	2.3	28.1	16.4
1 August	1710	Painter's Channel	34	Flooding	2.9	6.2	19.1
14 August	1325	McDonalds	21	Flooding	1.7	28.9	13.9
14 August	1635	Boat Ramp	20	Flooding	2.9	30.2	11.0
15 August	1335	Painter's Channel	34	Flooding	1.7	3.5	18.7
28 August	1415	Painter's Channel	34	Flooding	2.1	27.1	12.2
29 August	0805	McDonalds	21	Ebbing	3.2	31.5	10.5
30 August	1040	Boat Ramp	20	Ebbing	2.8	30.1	11.2
11 September	1303	McDonalds	21	Flooding	2.2	-	-
11 September	1312	Boat Ramp	20	Flooding	2.3	-	-
26 September	1035	Boat Ramp	20	Ebbing	2.2	29.6	10.3
26 September	1100	McDonalds	21	Ebbing	2.0	29.8	10.0
26 September	1205	Painter's Channel	34	Flooding	2.0	8.8	14.5

Table 5. Station descriptions, marine zone.

Station no.	Station name	Habitat type
27	Outer Gowlland	Beach on southwest side of Gowlland Island; cobble/boulder, kelp beds; moderate slope.
31	Plumper Bay	Beach immediately southeast of rocky cliffs on north side of Plumper Bay; gravel in higher elevation, mud, eelgrass in lower elevation, kelp bed; moderate slope.

Table 6. Campbell River 1984 marine zone. Date each station was visited, tide type and height and surface salinity and temperature.

Date	Time (PST)	Location	Stn. no.	Tide		Surface	
				Type	Ht. (m)	Sal. (°/oo)	Temp. (°C)
10 January	1249	Outer Gowlland	27	Ebbing	3.9	30.4	7.9
7 February	1340	Outer Gowlland	27	Ebbing	3.0	32.3	7.9
7 March	1603	Outer Gowlland	27	Flooding	2.1	32.3	8.4
21 March	1345	Outer Gowlland	27	Ebbing	1.5	-	9.0
3 April	1645	Outer Gowlland	27	Flooding	3.0	32.2	8.8
4 April	0945	Plumper Bay	31	Ebbing	2.7	27.4	8.4
17 April	0850	Plumper Bay	31	Ebbing	2.7	28.6	9.0
17 April	1330	Outer Gowlland	27	Flooding	0.9	29.3	8.5
2 May	0816	Plumper Bay	31	Ebbing	2.4	28.7	8.5
2 May	1203	Outer Gowlland	27	Ebbing	0.9	28.7	8.9
16 May	0805	Plumper Bay	31	Ebbing	2.3	28.3	9.2
16 May	1250	Outer Gowlland	27	Flooding	0.5	28.8	9.9
5 June	0820	Plumper Bay	31	Ebbing	3.3	29.6	9.5
5 June	1455	Outer Gowlland	27	Ebbing	1.0	29.4	10.2
19 June	0840	Plumper Bay	31	Ebbing	2.9	31.3	10.7
20 June	1530	Outer Gowlland	27	Ebbing	1.8	31.1	11.8
4 July	1000	Plumper Bay	31	Ebbing	2.8	30.7	10.7
4 July	1510	Outer Gowlland	27	Flooding	1.5	28.0	13.5
18 July	0910	Plumper Bay	31	Ebbing	2.8	29.4	11.2
18 July	1310	Outer Gowlland	27	Ebbing	1.9	29.6	13.5
1 August	0930	Plumper Bay	31	Ebbing	2.8	29.6	11.8
1 August	1345	Outer Gowlland	27	Flooding	1.3	29.3	14.0

Table 6 (cont'd)

Date	Time (PST)	Location	Stn. no.	Tide		Surface	
				Type	Ht. (m)	Sal. (°/oo)	Temp. (°C)
15 August	0835	Plumper Bay	31	Ebbing	3.0	31.6	10.8
15 August	1250	Outer Gowlland	27	Ebbing	1.7	29.6	13.2
29 August	0845	Outer Gowlland	27	Ebbing	3.0	31.7	10.2
29 August	1040	Plumper Bay	31	Ebbing	2.2	31.5	10.9
11 September	1324	Outer Gowlland	27	Flooding	2.4	-	-
26 September	1220	Outer Gowlland	27	Flooding	2.1	30.2	10.8

Table 7. Major epifauna categories. Estuarine zone. Raw counts and numbers  
 $\text{m}^{-2}$ .

#### 1ME10TAB1: CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES;ESTUARINE ZONE;MAJOR CATEGORIES

WET-FAUNA	CATEGORIES	CODE	IDENTIFICATION
O	OSTR = OSTRACODS	O	HARP = HARPACTICOID COPEPODS
O	ACAR = ACARINANS	O	OVAL = COPEPOD NAUPLII
O	EGGS = UNIDENTIFIED EGGS	O	NEMA = NEMATODES
O	TUNI = TUNICATES	O	CALA = CALANOID COPEPODS
O	AMPH = AMPHIPODS	O	WORM = WORMS
O	CAST = GASTROPODS	O	OSTR = OSTRACODS
O	ECTO = ECTOPROCTS	O	ACAR = ACARINANS
O	BNAU = BARNACLE NAUPLII	O	EGGS = UNIDENTIFIED EGGS
O	CRZO = CRAB ZOEA	O	TUNI = TUNICATES
O	BCYP = BARNACLE CYPRIS	O	AMPH = AMPHIPODS
O	GEGG = GASTROPOD EGGS	O	CAST = GASTROPODS
O	MYSI = MYSIDS	O	ECTO = ECTOPROCTS
O	CLAD = CLADOCERANS	O	BNAU = BARNACLE NAUPLII
O	ISOP = ISOPODS	O	CRZO = CRAB ZOEA
O	INSE = INSECTS	O	BCYP = BARNACLE CYPRIS
O	BTIVA = BIVALVES	O	GEGG = GASTROPOD EGGS
O	CHAE = CHAETOGNATHS	O	MYSI = MYSIDS
O	ELPH = ELPHASITIDS	O	CLAD = CLADOCERANS
O	CUNA = CUMACEANS	O	ISOP = ISOPODS
O	TANA = TANAIDACEANS	O	INSE = INSECTS
O	MEDU = MEDUSAE	O	BTIVA = BIVALVES
O	PARA = PARASITIC COPEPODS	O	CHAE = CHAETOGNATHS
O	POLY = POLYCHAETES	O	ELPH = ELPHASITIDS
O	ECHL = ECHINODERM LARVAE	O	CUNA = CUMACEANS
O	SIPH = SIPHONOPHORES	O	TANA = TANAIDACEANS
O	FILA = FISH LARVAE	O	MEDU = MEDUSAE
O	ROTI = ROTIFERS	O	PARA = PARASITIC COPEPODS
O	DECA = DECAPODS	O	POLY = POLYCHAETES
O	TARD = TARDIGRADES	O	ECHL = ECHINODERM LARVAE

CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 9 JAN 1984, 1825 HRS PST	0	STATION CR 7	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM	0	REP	CVAU	AMPH	NEMA	ISOP	CALA	EGGS	CLAD	MYSI	ECTO	HARP	POLY	ECHL	FILA	SIPH	MEDU	BIVIA
0	0	1	7	4	3	2	1	2	2	1	2	1	0	0	0	1	0	0	0	0	0	0	0
0	0	2	5	1	1	2	2	2	2	2	2	2	2	1	0	1	0	0	0	0	0	0	0
0	0	REP	CVAU	AMPH	NEMA	ISOP	CALA	EGGS	CLAD	MYSI	ECTO	HARP	POLY	ECHL	FILA	SIPH	MEDU	BIVIA					
0	0	1	14.0	8.0	6.0	4.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
0	0	2	10.0	2.0	2.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	2.0	2.0	2.0	0.0	0.0	0.0					
0	0	MEAN	12.0	5.0	4.0	4.0	3.0	3.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0					
0	0	SD	2.8	4.2	2.8	0.0	1.4	1.4	2.8	2.8	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0					
0	0	SE	2.0	3.0	2.0	0.0	1.0	1.0	2.0	2.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0					
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CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 9 JAN 1984, 1905 HRS PST	0	STATION CR 11	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM	0	REP	CVAU	AMPH	NEMA	HARP	CALA	ISOP	CLAD	MYSI	ECTO	OSTR	EGGS	WORM	ACAR	INSE	BIVIA	FILA	POLY
0	0	1	28	34	25	27	9	7	4	4	5	4	6	2	2	4	2	1	0	1	1	0	0	
0	0	2	13	5	9	7	4	4	4	5	5	4	5	2	0	0	1	2	0	0	0	0	0	
0	0	REP	CVAU	AMPH	NEMA	HARP	CALA	ISOP	CLAD	MYSI	ECTO	OSTR	EGGS	WORM	ACAR	INSE	BIVIA	FILA	POLY					
0	0	1	56.0	68.0	50.0	54.0	18.0	16.0	12.0	4.0	4.0	8.0	4.0	4.0	4.0	4.0	4.0	0.0	2.0	2.0	0.0	0.0	0.0	
0	0	2	26.0	26.0	10.0	18.0	14.0	8.0	8.0	10.0	8.0	4.0	0.0	2.0	2.0	2.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	
0	0	MEAN	41.0	39.0	34.0	34.0	13.0	12.0	11.0	6.0	4.0	4.0	3.0	3.0	3.0	3.0	3.0	0.0	1.0	1.0	0.0	0.0	0.0	
0	0	SD	21.2	41.0	22.6	28.3	7.1	5.7	1.4	2.8	0.0	5.7	1.4	1.4	1.4	1.4	1.4	2.8	1.4	1.4	0.0	0.0	0.0	
0	0	SE	15.0	29.0	16.0	20.0	5.0	4.0	1.0	2.0	0.0	4.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0	1.0	0.0	0.0	0.0	

## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE	9 JAN 1984, 1950 HRS PST																
0	STATION CR	1																
0	SAMPLE AREA	0.50 SQ M , DEPTH 0 CM																
0	REP	NEMA																
0	1	40	CNAU	CLAD	ECTO	CALA	AMPH	ACAR	WORM	INSE	ISOP	FILA	SIPH	POLY	CUMA	ECHL	BIVA	
0	2	17	1	10	6	2	3	1	0	0	1	0	0	0	0	0	0	
0	REP	NEMA	WYSTI	CNAU	CLAD	ECTO	CALA	AMPH	ACAR	WORM	INSE	ISOP	FILA	SIPH	POLY	CUMA	ECHL	BIVA
0	1	80.0	44.0	12.0	10.0	8.0	0.0	4.0	4.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
0	2	34.0	2.0	20.0	12.0	4.0	6.0	2.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	MEAN	57.0	23.0	16.0	11.0	6.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	SD	32.5	29.7	5.7	1.4	2.8	4.2	1.4	2.8	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	SE	23.0	21.0	4.0	1.0	2.0	3.0	1.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE	10 JAN 1984, 1810 HRS PST																
0	STATION CR	17																
0	SAMPLE AREA	0.50 SQ M , DEPTH 0 CM																
0	REP	NEMA																
0	1	37	CNAU	AMPH	ECTO	HARP	ACAR	EGGS	CALA	BLVA	CLAD	ISOP	FILA	ECHL	CUMA	SIPH	MEDU	POLY
0	2	7	5	7	2	3	1	1	2	0	1	1	0	0	0	0	0	0
0	REP	NEMA	CNAU	AMPH	ECTO	HARP	ACAR	EGGS	CALA	BLVA	CLAD	ISOP	FILA	ECHL	CUMA	SIPH	MEDU	POLY
0	1	74.0	10.0	14.0	4.0	6.0	2.0	4.0	4.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
0	2	14.0	10.0	2.0	4.0	0.0	2.0	0.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	MEAN	44.0	10.0	8.0	4.0	3.0	2.0	2.0	2.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
0	SD	42.4	0.0	8.5	0.0	4.2	0.0	0.0	2.8	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	SE	30.0	0.0	6.0	0.0	3.0	0.0	0.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 6 FEB 1984, 2205 HRS PST	0	STATION CR 7	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM	RAW COUNTS										NUMBERS PER 1.00 SQ M									
0	REP	ISOP	NEMA	CNAU	AMPH	HARP	EGGS	TARD	CALA	ECTO	ACAR	FILA	POLY	ECHL	CUMA	SIPH	MEDU	BIVIA							
0	1	24	10	6	7	1	1	1	1	0	0	0	0	0	0	0	0	0							
0	2	23	27	10	5	4	2	1	1	0	1	0	0	0	0	0	0	0							
0	REP	ISOP	NEMA	CNAU	AMPH	HARP	EGGS	TARD	CALA	ECTO	ACAR	FILA	POLY	ECHL	CUMA	SIPH	MEDU	BIVIA							
0	1	48.0	20.0	12.0	14.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
0	2	46.0	54.0	20.0	10.0	8.0	4.0	2.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
0	MEAN	47.0	37.0	16.0	12.0	5.0	3.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
0	SD	1.4	24.0	5.7	2.8	4.2	1.4	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
0	SE	1.0	17.0	4.0	2.0	3.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
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## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 6 FEB 1984, 2250 HRS PST	0	STATION CR 1	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM	RAW COUNTS										NUMBERS PER 1.00 SQ M									
0	REP	ISOP	MYSI	EGGS	CNAU	WORM	AMPH	ECTO	NEMA	CLAD	ACAR	CALA	CUMA	HARP	POLY	ECHL	MEDU	BIVIA							
0	1	21	5	0	9	2	3	6	3	5	3	0	0	0	0	0	0	0							
0	2	23	25	16	5	10	4	0	2	0	1	3	1	1	0	0	0	0							
0	REP	ISOP	MYSI	EGGS	CNAU	WORM	AMPH	ECTO	NEMA	CLAD	ACAR	CALA	CUMA	HARP	POLY	ECHL	MEDU	BIVIA							
0	1	42.0	10.0	0.0	18.0	4.0	6.0	12.0	6.0	10.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
0	2	46.0	50.0	32.0	10.0	20.0	8.0	0.0	4.0	0.0	2.0	6.0	2.0	2.0	0.0	0.0	0.0	0.0							
0	MEAN	44.0	30.0	16.0	14.0	12.0	7.0	6.0	5.0	5.0	4.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0							
0	SD	2.8	28.3	22.6	5.7	11.3	1.4	8.5	1.4	7.1	2.8	4.2	1.4	1.4	0.0	0.0	0.0	0.0							
0	SE	2.0	20.0	16.0	4.0	8.0	1.0	6.0	1.0	5.0	2.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0							

## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 7 FEB 1984, 0005 HRS PST	0	STATION CR 17	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM	RAW COUNTS										NUMBERS PER 1.00 SQ M													
0	REP	NEMA	HARP	CNAU	AMPH	CLAD	ACAR	ISOP	CALA	ECTO	OSTR	WORM	FILA	SIPH	ECHL	CNAU	MEDU	POLY	0	0	0	0	0	0	0	0	0	0	
0	0	1	54	48	25	13	9	6	6	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	2	19	8	21	4	4	4	3	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	REP	NEMA	HARP	CNAU	AMPH	CLAD	ACAR	ISOP	CALA	ECTO	OSTR	WORM	FILA	SIPH	ECHL	CNAU	MEDU	POLY	0	0	0	0	0	0	0	0	0	0
0	0	1	108.0	96.0	50.0	26.0	18.0	12.0	4.0	4.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0	0	2	38.0	16.0	42.0	8.0	8.0	8.0	6.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0	0	MEAN	73.0	56.0	46.0	17.0	13.0	10.0	9.0	6.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0	0	SD	49.5	56.6	5.7	12.7	7.1	2.8	4.2	2.8	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0	0	SE	35.0	40.0	4.0	9.0	5.0	2.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
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## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 7 MAR 1984, 1345 HRS PST	0	STATION CR 7	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM	RAW COUNTS										NUMBERS PER 1.00 SQ M														
0	REP	NEMA	HARP	CNAU	ISOP	AMPH	WORM	EGGS	OSTR	ACAR	TARD	CALA	MYST	INSE	BNAU	SIPH	ECHL	FILA	0	0	0	0	0	0	0	0	0	0		
0	0	1	24	10	18	5	0	1	5	1	1	2	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
0	0	2	368	67	56	43	30	21	11	13	8	5	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0	0	REP	NEMA	HARP	CNAU	ISOP	AMPH	WORM	EGGS	OSTR	ACAR	TARD	CALA	MYST	INSE	BNAU	SIPH	ECHL	FILA	0	0	0	0	0	0	0	0	0	0	
0	0	1	48.0	20.0	36.0	10.0	0.0	2.0	10.0	2.0	2.0	4.0	0.0	2.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0	0	2	736.0	134.0	112.0	86.0	60.0	42.0	22.0	16.0	10.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0	0	MEAN	392.0	77.0	74.0	48.0	30.0	22.0	16.0	14.0	9.0	6.0	5.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0	0	SD	486.5	80.6	53.7	53.7	42.4	28.3	8.5	17.0	9.9	5.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	
0	0	SE	344.0	57.0	38.0	38.0	30.0	20.0	6.0	12.0	7.0	4.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE	7 MAR 1984, 1425 HRS PST	RAW COUNTS										
0	STATION CR	1	0.50 SQ M , DEPTH 0 CM										
0	SAMPLE AREA		EGGS	CALA	TARD	OSTR	CLAD	AMPH	ECHL	FILA	SIPH	MEDU	POLY
0	REP	NEMA	QNAU	HARP	ACAR	ISOP	WORM	4	1	0	0	0	0
0	1	144	19	10	8	4	3	6	2	0	0	0	0
0	2	22	12	3	2	6							
0	REP	NEMA	QNAU	HARP	ACAR	ISOP	WORM	5	3	4	3	0	0
0	1	288.0	38.0	20.0	16.0	8.0	8.0	10.0	6.0	6.0	4.0	2.0	0.0
0	2	44.0	24.0	6.0	4.0	12.0	6.0	2.0	4.0	0.0	0.0	2.0	0.0
0	MEAN	166.0	31.0	13.0	10.0	10.0	6.0	5.0	4.0	3.0	2.0	0.0	0.0
0	SD	172.5	9.9	9.9	8.5	2.8	1.4	5.7	1.4	5.7	2.8	0.0	0.0
0	SE	122.0	7.0	7.0	6.0	2.0	1.0	4.0	1.0	3.0	2.0	0.0	0.0
1													

## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE	7 MAR 1984, 1630 HRS PST	RAW COUNTS											
0	STATION CR	17	0.50 SQ M , DEPTH 0 CM											
0	SAMPLE AREA		EGGS	CALA	OSTR	CLAD	EUPH	ISOP	ECTO	FILA	CUMA	SIPH	MEDU	POLY
0	REP	NEMA	QNAU	HARP	ACAR	ISOP	WORM	3	6	1	1	0	0	0
0	1	24	23	14	6	2	3	3	0	1	0	0	0	0
0	2	83	45	20	5	4								
0	REP	NEMA	QNAU	HARP	ACAR	ISOP	WORM	4.0	6.0	12.0	2.0	2.0	0.0	0.0
0	1	48.0	28.0	12.0	4.0	6.0	6.0	6.0	0.0	2.0	2.0	0.0	0.0	0.0
0	2	166.0	90.0	40.0	10.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	MEAN	107.0	68.0	34.0	11.0	6.0	6.0	2.0	1.0	1.0	1.0	0.0	0.0	0.0
0	SD	83.4	31.1	8.5	1.4	2.8	0.0	8.5	0.0	1.4	1.4	0.0	0.0	0.0
0	SE	59.0	22.0	6.0	1.0	2.0	0.0	6.0	0.0	1.0	1.0	0.0	0.0	0.0
1														



CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

DATE 20 MAR 1984, 1505 HRS PST  
STATION CR 17  
SAMPLE AREA 0.50 SQ M , DEPTH 0 CM

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

DATE 20 MAR 1984, 1540 HRS PST  
STATION CR 11  
SAMPLE AREA 0.50 50 M : DEPTH 0 CM

CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES;ESTUARINE ZONE;MAJOR CATEGORIES

DATE 20 MAR 1984 1630 HRS PST

DATE 2011-08-04, PAGE 1

SAILON CR 1

SAMPLE AREA 0.50 SQ M . DEPTH 0 CM

PBM CONCERN

		NUMBERS PER 1.00 SQ M						TAWA									
REP		NEMA	QWAU	ACAR	ISOP	HARP	OSTR	ECTO	CALA	POLY	WORM	INSE	SIPH	FILA	CUMA	EUPH	EOHL
1	1	134.0	70.0	52.0	20.0	12.0	2.0	4.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
2	2	18.0	18.0	10.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN		76.0	44.0	31.0	11.0	6.0	2.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
SD		82.0	36.8	29.7	12.7	8.5	0.0	2.8	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
SE		58.0	26.0	21.0	9.0	6.0	0.0	2.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0

CAMPBELL RIVER FORESHORE STUDY; SLFD SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

) DATE 3 APR 1984, 1455 HRS PST

STATION 00 10

SALIUN CR 10

CAMPBELL RIVER FORESHORE STUDY; SLEDF SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE	3 APR 1984, 1520 HRS PST	0	STATION CR	7	0	SAMPLE AREA	0.50 SQ M , DEPTH 0 CM	RAW COUNTS									
0	REP	CNAU	CALA	NEMA	ISOP	HARP	CLAD	TARD	ACAR	OSTR	SIPH	PARA	EUPH	ECHL	FILA	INSE	MEDU	POLY
0	1	19	13	9	3	2	0	1	1	1	0	0	0	0	0	0	0	0
0	2	13	11	5	2	2	1	0	0	0	0	0	0	0	0	0	0	0
0	MEAN	32.0	24.0	14.0	5.0	4.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	SD	8.5	2.8	5.7	1.4	0.0	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	SE	6.0	2.0	4.0	1.0	0.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1																		

CAMPBELL RIVER FORESHORE STUDY; SLEDF SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE	3 APR 1984, 1545 HRS PST	0	STATION CR	1	0	SAMPLE AREA	0.50 SQ M , DEPTH 0 CM	RAW COUNTS									
0	REP	NEMA	CNAU	ACAR	CALA	WORM	ISOP	HARP	EGGS	POLY	OSTR	INSE	TANA	SIPH	FILA	PARA	ECHL	CUMA
0	1	39	28	21	11	8	5	4	2	2	1	1	0	0	0	0	0	0
0	2	92	24	13	15	6	9	3	2	1	1	1	1	0	0	0	0	0
0	MEAN	131.0	52.0	34.0	26.0	14.0	7.0	4.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
0	SD	75.0	5.7	11.3	5.7	2.8	5.7	1.4	0.0	1.4	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0
0	SE	53.0	4.0	8.0	4.0	2.0	4.0	1.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

DATE 4 APR 1984, 1550 HRS PST

STATION CB 17

CHIEN LIN / 200

SAMPLE AREA 0.30 50 M , DEPTH 0 CM

RAW COUNTS

	REP	CVAL	NEMA	HARP	AMPH	OSTR	CALA	ACAR	WORM	EGGS	CLAD	BCYP	ISOP	FILA	ECHL	CUMA	MEDU	POLY
0	0	1	65	22	16	14	7	6	5	2	1	0	1	1	0	0	0	0
0	0	2	18	4	4	2	7	7	2	1	1	2	0	0	0	0	0	0
0	0	2	18	4	4	2	7	7	2	1	1	2	0	0	0	0	0	0

0	0	REP	QNAU	NEMA	HARP	AMPH	OSTR	CALA	ACAR	WORM	EGCS	CLAD	BCYP	ISOP	FILA	ECH	CMIA	MEDU	POLY	
0	1	130.0	44.0	32.0	28.0	14.0	12.0	10.0	4.0	2.0	0.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	
0	2	36.0	8.0	4.0	8.0	14.0	14.0	4.0	2.0	2.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0	MEAN	83.0	26.0	20.0	16.0	14.0	13.0	7.0	3.0	2.0	2.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	
0	SD	66.5	25.5	17.0	17.0	0.0	1.4	4.2	1.4	0.0	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0	SE	47.0	18.0	12.0	12.0	0.0	1.0	3.0	1.0	0.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

DATE 4 APR 1984, 1630 HRS PST

STATION CR 11

SAMPLE AREA 0 50 80 M DEPTH 0 CM

SAMPLE AREA 0

RAW COUNTS		1.00
WORM	DECA	E
1	1	
2	0	

  

NUMBERS PER		1.00
WORM	DECA	E
2.0	2.0	
4.0	0.0	

CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 16 APR 1984, 1330 HRS PST	0	STATION CR 7	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM	RAW COUNTS													
0	REP	NEMA	QNAU	HARP	OSTR	CALA	EGGS	AMPH	ACAR	ISOP	MYSI	WORM	CLAD	ECHL	FILA	SIPH	MEDU	POLY	
0	0	1	52	26	22	16	8	6	4	3	1	1	1	0	0	0	0	0	
0	0	2	9	6	2	3	1	1	1	1	0	0	0	0	0	0	0	0	
0	0	REP	NEMA	QNAU	HARP	OSTR	CALA	EGGS	AMPH	ACAR	ISOP	MYSI	WORM	CLAD	ECHL	FILA	SIPH	MEDU	POLY
0	0	1	104.0	52.0	44.0	32.0	16.0	12.0	8.0	8.0	6.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
0	0	2	18.0	12.0	4.0	6.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	0	MEAN	61.0	32.0	24.0	19.0	9.0	7.0	5.0	4.0	4.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
0	0	SD	60.8	28.3	18.4	9.9	7.1	4.2	4.2	2.8	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	0	SE	43.0	20.0	20.0	13.0	7.0	5.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1																			

CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 16 APR 1984, 1555 HRS PST	0	STATION CR 1	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM	RAW COUNTS												
0	REP	ISOP	NEMA	QNAU	WORM	HARP	ACAR	BNAU	EGGS	INSE	AMPH	CLAD	FILA	CUMA	SIPH	ECHL	BIV/A	
0	0	1	6	7	10	3	2	1	1	2	0	1	0	0	0	0	0	0
0	0	2	16	13	10	4	2	3	1	0	2	0	0	0	0	0	0	0
0	0	REP	ISOP	NEMA	QNAU	WORM	HARP	ACAR	BNAU	EGGS	INSE	AMPH	CLAD	FILA	CUMA	SIPH	ECHL	BIV/A
0	0	1	12.0	14.0	20.0	14.0	6.0	4.0	2.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
0	0	2	32.0	26.0	20.0	8.0	4.0	4.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	0	MEAN	22.0	20.0	20.0	11.0	5.0	4.0	4.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
0	0	SD	14.1	8.5	0.0	4.2	1.4	0.0	2.8	0.0	2.8	1.4	1.4	0.0	0.0	0.0	0.0	0.0
0	0	SE	10.0	6.0	0.0	3.0	1.0	0.0	2.0	0.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
1																		

## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES;ESTUARINE ZONE;MAJOR CATEGORIES

0	DATE 17 APR 1984, 1530 HRS PST	0	SAMPLE AREA	0.50 SQ M , DEPTH 0 CM	RAW COUNTS								NUMBERS PER 1.00 SQ M							
0	REP	NEMA	OSTR	CNAU	HARP	ACAR	WORM	CALA	EGGS	ISOP	AMPH	BNAU	ECTO	ROTI	CRZO	GAST	INSE	SIPH		
0	0	1	2072	902	560	171	27	23	22	21	14	6	0	0	1	0	0	0		
0	0	2	1600	586	609	183	34	21	14	1	3	5	0	2	1	1	1	0		
0	0	REP	NEMA	OSTR	CNAU	HARP	ACAR	WORM	CALA	EGGS	ISOP	AMPH	BNAU	ECTO	ROTI	CRZO	GAST	INSE	SIPH	
0	0	1	4144.0	1804.0	1120.0	342.0	54.0	46.0	44.0	42.0	28.0	12.0	6.0	0.0	0.0	2.0	0.0	0.0	0.0	
0	0	2	3200.0	1172.0	1218.0	366.0	68.0	42.0	28.0	2.0	6.0	10.0	0.0	4.0	2.0	0.0	2.0	0.0	0.0	
0	0	MEAN	3672.0	1488.0	1169.0	354.0	61.0	44.0	36.0	22.0	17.0	11.0	3.0	2.0	1.0	1.0	1.0	0.0	0.0	
0	0	SD	667.5	446.9	69.3	17.0	9.9	2.8	11.3	28.3	15.6	1.4	4.2	2.8	1.4	1.4	1.4	0.0	0.0	
0	0	SE	472.0	316.0	49.0	12.0	7.0	2.0	8.0	20.0	11.0	1.0	3.0	2.0	1.0	1.0	1.0	0.0	0.0	
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES;ESTUARINE ZONE;MAJOR CATEGORIES

0	DATE 17 APR 1984, 1605 HRS PST	0	SAMPLE AREA	0.50 SQ M , DEPTH 0 CM	RAW COUNTS								NUMBERS PER 1.00 SQ M							
0	REP	NEMA	CNAU	HARP	ACAR	OSTR	EGGS	CALA	ISOP	WORM	ROTI	BNAU	MYSTI	CLAD	SIPH	EQHL	PARA	MEDU		
0	0	1	63	32	4	5	0	0	9	0	1	0	0	0	0	0	0	0		
0	0	2	106	82	22	19	21	18	8	3	1	2	2	1	1	0	0	0		
0	0	REP	NEMA	CNAU	HARP	ACAR	OSTR	EGGS	CALA	ISOP	WORM	ROTI	BNAU	MYSTI	CLAD	SIPH	EQHL	PARA	MEDU	
0	0	1	126.0	64.0	8.0	10.0	0.0	0.0	18.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0	0	2	212.0	164.0	44.0	38.0	42.0	36.0	16.0	6.0	2.0	4.0	4.0	2.0	2.0	0.0	0.0	0.0	0.0	
0	0	MEAN	169.0	114.0	26.0	24.0	21.0	18.0	17.0	3.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	
0	0	SD	60.8	70.7	25.5	19.8	29.7	25.5	1.4	4.2	0.0	2.8	2.8	1.4	1.4	0.0	0.0	0.0	0.0	
0	0	SE	43.0	50.0	18.0	14.0	21.0	18.0	1.0	3.0	0.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	

## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 1 MAY 1984, 1500 HRS PST	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM	RAW COUNTS																	
0	STATION CR 17	0		REP	CALA	CVAU	NEMA	ACAR	OSTR	CLAD	AMPH	EGGS	TNSE	ROTI	ISOP	FILA	ECHL	CUMA	SIPH	MEDU	POLY
0	1	28	12	8	5	3	3	1	1	0	1	0	1	0	1	0	0	0	0	0	
0	2	6	6	4	4	2	1	1	1	0	1	1	0	1	0	0	0	0	0	0	
0	MEAN	34.0	18.0	12.0	9.0	5.0	4.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	
0	SD	31.1	8.5	5.7	1.4	1.4	2.8	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	
0	SE	22.0	6.0	4.0	1.0	1.0	2.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	
1																					

## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 1 MAY 1984, 1515 HRS PST	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM	RAW COUNTS																	
0	STATION CR 11	0		REP	NEMA	CVAU	HARP	EGGS	OSTR	CALA	FILA	PARA	ECHL	TANA	CUMA	SIPH	CHAE	POLY	INSE	MEDU	CLAD
0	1	4	2	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	
0	2	5	2	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	
0	MEAN	9.0	4.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0	SD	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0	SE	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

DATE 2 MAY 1984, 1455 HRS PST		STATION CR 1		SAMPLE AREA 0.50 SQ M , DEPTH 0 CM				RAW COUNTS									
0		0		0				ISOP		WORM		ACAR		OSTR		EGGS	
0	0	0	0	0	0	REP	CNAU	NEMA	CALA	CLAD	HARP	BNAU	ISOP	WORM	ACAR	OSTR	EGGS
0	1	29	14	25	5	2	0	0	2	3	3	0	3	0	0	0	0
0	2	76	26	10	4	7	8	5	5	2	2	5	0	1	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
								NUMBERS PER 1.00 SQ M									
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	1	58.0	28.0	50.0	10.0	4.0	0.0	4.0	6.0	6.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0
0	2	152.0	52.0	20.0	8.0	14.0	16.0	10.0	4.0	4.0	10.0	0.0	2.0	0.0	0.0	0.0	0.0
0	0	105.0	40.0	35.0	9.0	9.0	8.0	7.0	5.0	5.0	5.0	3.0	1.0	0.0	0.0	0.0	0.0
0	SD	66.5	17.0	21.2	1.4	7.1	11.3	4.2	1.4	1.4	7.1	4.2	1.4	0.0	0.0	0.0	0.0
0	SE	47.0	12.0	15.0	1.0	5.0	8.0	3.0	1.0	1.0	5.0	3.0	1.0	0.0	0.0	0.0	0.0
1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

DATE 2 MAY 1984, 1545 HRS PST		STATION CR 7		SAMPLE AREA 0.50 SQ M , DEPTH 0 CM				RAW COUNTS									
0		0		0				HARP		ISOP		ROTI		ACAR		EGGS	
0	0	0	0	0	0	REP	CNAU	CALA	CLAD	NEMA	BNAU	TARD	HARP	ISOP	ROTI	ACAR	EGGS
0	1	39	23	10	2	2	0	1	2	0	0	0	2	0	0	0	0
0	2	23	11	3	5	1	2	1	0	0	0	0	0	0	0	2.0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
								NUMBERS PER 1.00 SQ M									
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	1	78.0	46.0	20.0	4.0	4.0	0.0	2.0	4.0	4.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0
0	2	46.0	22.0	6.0	10.0	2.0	4.0	2.0	0.0	0.0	0.0	2.0	0.0	2.0	0.0	0.0	0.0
0	0	62.0	34.0	13.0	7.0	3.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
0	SD	22.6	17.0	9.9	4.2	1.4	2.8	0.0	2.8	2.8	1.4	1.4	1.4	1.4	1.4	0.0	0.0
0	SE	16.0	12.0	7.0	3.0	1.0	2.0	0.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

DATE 15 MAY 1984, 1235 HRS PST		STATION CR 7		SAMPLE AREA 0.50 SQ M , DEPTH 0 CM		RAW COUNTS						NUMBERS PER 1.00 SQ M					
						CLAD	AMPH	WORM	ISOP	EGGS	ACAR	INSE	ROTI	BIVA	CUMA	ECHL	POLY
0	REP	CNAU	OSTR	HARP	NEMA	CLAD	21	22	7	5	7	5	3	1	0	0	0
0	1	211	95	88	41	30	18	6	10	3	0	1	0	0	0	0	0
0	2	204	22	25	40	14	18										
0	REP	CNAU	OSTR	HARP	NEMA	CLAD	42.0	44.0	14.0	10.0	14.0	10.0	6.0	2.0	0.0	0.0	0.0
0	1	422.0	190.0	176.0	82.0	60.0	36.0	12.0	20.0	6.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0
0	2	408.0	44.0	50.0	80.0	28.0											
0	MEAN	415.0	117.0	113.0	81.0	44.0	39.0	28.0	17.0	8.0	7.0	3.0	1.0	1.0	0.0	0.0	0.0
0	SD	9.9	103.2	89.1	1.4	22.6	4.2	22.6	4.2	2.8	9.9	5.7	4.2	1.4	0.0	0.0	0.0
0	SE	7.0	73.0	63.0	1.0	16.0	3.0	16.0	3.0	2.0	7.0	4.0	3.0	1.0	0.0	0.0	0.0
1																	

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

DATE 15 MAY 1984, 1445 HRS PST		STATION CR 17		SAMPLE AREA 0.50 SQ M , DEPTH 0 CM		RAW COUNTS						NUMBERS PER 1.00 SQ M						
						CLAD	AMPH	WORM	ACAR	EGGS	ISOP	GECC	AMPH	EUPH	CUMA	SIPH	MEDU	POLY
0	REP	CNAU	HARP	OSTR	NEMA	CLAD	20	20	3	3	2	0	1	0	0	0	0	
0	1	392	277	328	69	19	9	7	7	0	1	2	0	1	0	0	0	
0	2	149	196	97														
0	REP	CNAU	HARP	OSTR	NEMA	CLAD	40.0	40.0	6.0	6.0	4.0	0.0	2.0	0.0	0.0	0.0	0.0	
0	1	784.0	554.0	656.0	544.0	38.0	18.0	14.0	0.0	2.0	4.0	0.0	2.0	0.0	0.0	0.0	0.0	
0	2	298.0	392.0	194.0	138.0													
0	MEAN	541.0	473.0	425.0	341.0	39.0	29.0	27.0	10.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	
0	SD	343.7	114.6	326.7	287.1	1.4	15.6	18.4	5.7	4.2	1.4	2.8	1.4	0.0	0.0	0.0	0.0	
0	SE	243.0	81.0	231.0	203.0	1.0	11.0	13.0	4.0	3.0	1.0	2.0	1.0	0.0	0.0	0.0	0.0	

## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES;ESTUARINE ZONE;MAJOR CATEGORIES

DATE 15 MAY 1984, 1520 HRS PST

STATION CR 11

SAMPLE AREA 0.50 SQ M, DEPTH 0 CM

## RAW COUNTS

	REP	CALA	NEMA	HARP	ONAU	OSTR	GLAD	EGGS	ACAR	WORM	ANPH	ROTI	INSE	SIPH	CUMA	PARA	ECHL	POLY
1	53	71	73	42	11	5	4	4	4	6	1	0	0	0	0	0	0	
2	85	48	27	26	6	10	9	4	2	0	0	1	0	0	0	0	0	

## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

DATE 15 MAY 1984, 1640 HRS PST

STATION CR 1

SAMPLE AREA 0.50 SQ M , DEPTH 0 CM

## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE	4 JUN 1984, 1235 HRS PST	RAW COUNTS																
0	STATION	CR 7	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM																
0	REP	CNAU	HARP	OSTR	NEMA	CALA	AMPH	CLAD	EGGS	ACAR	MYST	WORM	BNAU	SIPH	ECHL	PARA	MEDU	FILA	
0	0	1	179	74	40	18	10	11	6	1	0	1	1	0	0	0	0	0	
0	0	2	59	28	11	10	13	4	6	3	3	0	0	0	0	0	0	0	
0	0	REP	CNAU	HARP	OSTR	NEMA	CALA	AMPH	CLAD	EGGS	ACAR	MYST	WORM	BNAU	SIPH	ECHL	PARA	MEDU	FILA
0	0	1	358.0	148.0	80.0	36.0	20.0	22.0	12.0	2.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
0	0	2	118.0	56.0	22.0	20.0	26.0	8.0	12.0	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	0	MEAN	238.0	102.0	51.0	28.0	23.0	15.0	12.0	4.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
0	0	SD	169.7	65.1	41.0	11.3	4.2	9.9	0.0	2.8	4.2	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
0	0	SE	120.0	46.0	29.0	8.0	3.0	7.0	0.0	2.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
1																			

## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE	4 JUN 1984, 1405 HRS PST	RAW COUNTS																
0	STATION	CR 1	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM																
0	REP	MYST	OSTR	HARP	CNAU	NEMA	WORM	CALA	EGGS	ACAR	CLAD	AMPH	GEGG	CUMA	ISOP	ECHL	MEDU	POLY	
0	0	1	5	20	37	39	23	1	8	0	1	4	0	1	0	0	0	0	
0	0	2	259	121	100	72	58	43	4	6	5	2	5	2	1	1	0	0	
0	0	REP	MYST	OSTR	HARP	CNAU	NEMA	WORM	CALA	EGGS	ACAR	CLAD	AMPH	GEGG	CUMA	ISOP	ECHL	MEDU	POLY
0	0	1	10.0	40.0	74.0	78.0	46.0	2.0	16.0	0.0	2.0	8.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0
0	0	2	518.0	242.0	200.0	144.0	116.0	86.0	8.0	12.0	10.0	4.0	10.0	4.0	2.0	2.0	0.0	0.0	0.0
0	0	MEAN	264.0	141.0	137.0	111.0	81.0	44.0	12.0	6.0	6.0	5.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0
0	0	SD	359.2	142.8	89.1	46.7	49.5	59.4	5.7	8.5	5.7	2.8	7.1	1.4	1.4	0.0	0.0	0.0	0.0
0	0	SE	254.0	101.0	63.0	33.0	35.0	42.0	4.0	6.0	4.0	2.0	5.0	1.0	1.0	0.0	0.0	0.0	0.0
1																			

## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 4 JUN 1984, 1735 HRS PST	0	STATION CR 17	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM	RAW COUNTS						NUMBERS PER 1.00 SQ M						
0	REP	CALAD	CALAU	NEMA	EGGS	OSTR	HARP	AMPH	ACAR	BNAU	GEGG	WORM	SIPH	ECHL	PARA	MEDU	CUMA	
0	0	1	253	132	93	49	47	20	8	4	1	0	0	0	0	0	0	
0	0	2	91	61	50	36	11	12	2	1	3	0	1	0	0	0	0	
0	0	REP	CALAD	CALAU	NEMA	EGGS	OSTR	HARP	AMPH	ACAR	BNAU	GEGG	WORM	SIPH	ECHL	PARA	MEDU	CUMA
0	0	1	506.0	264.0	186.0	98.0	94.0	40.0	16.0	8.0	2.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
0	0	2	182.0	122.0	100.0	72.0	22.0	24.0	4.0	2.0	6.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0
0	0	MEAN	344.0	193.0	143.0	85.0	58.0	32.0	10.0	5.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
0	0	SD	229.1	100.4	60.8	18.4	50.9	11.3	8.5	4.2	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
0	0	SE	162.0	71.0	43.0	13.0	36.0	8.0	6.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
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## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 6 JUN 1984, 1130 HRS PST	0	STATION CR 11	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM	RAW COUNTS						NUMBERS PER 1.00 SQ M							
0	REP	CNALU	NEMA	HARP	CALA	CLAD	EGGS	OSTR	WORM	ACAR	POLY	BNAU	GEGG	ECHL	CUMA	SIPH	MEDU	TANA	
0	0	1	97	63	36	11	14	6	6	7	5	4	7	2	0	0	0	0	
0	0	2	33	34	11	14	6	6	6	7	5	4	1	0	0	0	0	0	
0	0	REP	CNALU	NEMA	HARP	CALA	CLAD	EGGS	OSTR	WORM	ACAR	POLY	BNAU	GEGG	ECHL	CUMA	SIPH	MEDU	TANA
0	0	1	194.0	126.0	72.0	22.0	34.0	34.0	14.0	18.0	6.0	8.0	14.0	4.0	0.0	0.0	0.0	0.0	0.0
0	0	2	66.0	68.0	22.0	28.0	12.0	12.0	14.0	10.0	12.0	8.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
0	0	MEAN	130.0	97.0	47.0	25.0	23.0	23.0	14.0	14.0	9.0	8.0	8.0	2.0	0.0	0.0	0.0	0.0	0.0
0	0	SD	90.5	41.0	35.4	4.2	15.6	15.6	0.0	5.7	4.2	0.0	8.5	2.8	0.0	0.0	0.0	0.0	0.0
0	0	SE	64.0	29.0	25.0	3.0	11.0	11.0	0.0	4.0	3.0	0.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0
1																			

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 18 JUN 1984, 1350 HRS PST	0	STATION CR 7	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM	RAW COUNTS						NUMBERS PER 1.00 SQ M							
0	REP	HARP	OVAU	OSTR	NEMA	AMPH	WORM	CLAD	CALA	MYSI	EGGS	ACAR	ISOP	POLY	BNAU	GEGG	ROTI	TUNI	
0	0	1	215	185	144	133	112	14	9	7	3	3	1	1	0	0	0	0	
0	0	2	136	86	86	84	104	10	9	6	8	3	3	1	2	1	1	1	
0	0	REP	HARP	OVAU	OSTR	NEMA	AMPH	WORM	CLAD	CALA	MYSI	EGGS	ACAR	ISOP	POLY	BNAU	GEGG	ROTI	TUNI
0	0	1	430.0	370.0	288.0	266.0	224.0	28.0	18.0	14.0	6.0	6.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
0	0	2	272.0	172.0	172.0	168.0	208.0	20.0	18.0	12.0	16.0	6.0	6.0	2.0	4.0	2.0	2.0	2.0	2.0
0	0	MEAN	351.0	271.0	230.0	217.0	216.0	24.0	18.0	13.0	11.0	6.0	4.0	2.0	2.0	1.0	1.0	1.0	1.0
0	0	SD	111.7	140.0	82.0	69.3	11.3	5.7	0.0	1.4	7.1	0.0	2.8	0.0	2.8	1.4	1.4	1.4	1.4
0	0	SE	79.0	99.0	58.0	49.0	8.0	4.0	0.0	1.0	5.0	0.0	2.0	0.0	2.0	1.0	1.0	1.0	1.0
1																			

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 18 JUN 1984, 1430 HRS PST	0	STATION CR 1	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM	RAW COUNTS						NUMBERS PER 1.00 SQ M						EGGL	
0	REP	NEMA	HARP	OVAU	OSTR	AMPH	ACAR	WORM	CALA	CLAD	EGGS	MYSI	GEGG	ROTI	BLVA	POLY	TUNI	EGGL	
0	0	1	145	121	95	46	15	12	11	7	5	2	3	0	1	0	1	0	
0	0	2	14	16	6	3	1	3	2	4	3	0	2	0	1	1	0	0	
0	0	REP	NEMA	HARP	OVAU	OSTR	AMPH	ACAR	WORM	CALA	CLAD	EGGS	MYSI	GEGG	ROTI	BLVA	POLY	TUNI	EGGL
0	0	1	290.0	242.0	190.0	92.0	30.0	24.0	22.0	14.0	10.0	4.0	6.0	0.0	0.0	0.0	2.0	2.0	0.0
0	0	2	28.0	32.0	12.0	6.0	2.0	6.0	4.0	8.0	6.0	0.0	4.0	0.0	2.0	2.0	0.0	0.0	0.0
0	0	MEAN	159.0	137.0	101.0	49.0	16.0	15.0	13.0	11.0	10.0	5.0	4.0	3.0	1.0	1.0	1.0	1.0	0.0
0	0	SD	185.3	148.5	125.9	60.8	19.8	12.7	12.7	4.2	5.7	7.1	0.0	4.2	1.4	1.4	1.4	1.4	0.0
0	0	SE	131.0	105.0	89.0	43.0	14.0	9.0	9.0	3.0	4.0	5.0	0.0	3.0	1.0	1.0	1.0	1.0	0.0
1																			

## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 18 JUN 1984, 1715 HRS PST	0	SAMPLE AREA	0.50 SQ M , DEPTH 0 CM	RAW COUNTS										NUMBERS PER 1.00 SQ M									
0	REP	OSTR	NEMA	CLAD	CNAU	ACAR	HARP	EGGS	INSE	GEGG	AMPH	WORM	SIPH	CUMA	PARA	ECHL	POLY							
0	0	1	4	25	11	6	15	7	3	0	1	0	0	0	0	0	0	0	0	0	0	0		
0	0	2	185	63	22	26	14	15	4	1	1	1	1	0	0	0	0	0	0	0	0	0		
0	0	REP	OSTR	NEMA	CLAD	CNAU	ACAR	HARP	EGGS	INSE	GEGG	AMPH	WORM	SIPH	CUMA	PARA	ECHL	POLY						
0	0	1	8.0	50.0	22.0	12.0	30.0	6.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0	0	2	370.0	126.0	44.0	52.0	28.0	28.0	30.0	8.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0	0	MEAN	189.0	88.0	33.0	29.0	21.0	18.0	4.0	2.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0	0	SD	256.0	53.7	15.6	28.3	1.4	9.9	17.0	5.7	0.0	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0	0	SE	181.0	38.0	11.0	20.0	1.0	7.0	12.0	4.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
1																								

## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 18 JUN 1984, 1745 HRS PST	0	SAMPLE AREA	0.50 SQ M , DEPTH 0 CM	RAW COUNTS										NUMBERS PER 1.00 SQ M									
0	REP	NEMA	OSTR	ACAR	HARP	CNAU	CLAD	WORM	CALA	POLY	AMPH	GECK	EGGS	MYSI	SIPH	ECHL	PARA	MEDU						
0	0	1	175	123	62	45	29	22	15	7	4	1	0	1	0	0	0	0	0	0	0	0		
0	0	2	60	53	26	15	6	3	7	1	0	1	0	1	0	0	0	0	0	0	0	0		
0	0	REP	NEMA	OSTR	ACAR	HARP	CNAU	CLAD	WORM	CALA	POLY	AMPH	GECK	EGGS	MYSI	SIPH	ECHL	PARA	MEDU					
0	0	1	350.0	246.0	124.0	90.0	58.0	44.0	30.0	14.0	8.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0	0	2	120.0	106.0	52.0	30.0	12.0	6.0	14.0	2.0	0.0	2.0	0.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0		
0	0	MEAN	235.0	176.0	88.0	60.0	35.0	25.0	22.0	8.0	4.0	2.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0	0	SD	162.6	99.0	50.9	42.4	32.5	26.9	11.3	8.5	5.7	0.0	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0	0	SE	115.0	70.0	36.0	30.0	19.0	8.0	6.0	4.0	0.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

## CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE	3 JUL 1984, 1205 HRS PST
0	STATION	CR 7
0	SAMPLE AREA	0.50 SQ M , DEPTH 0 CM
0	REP	NEMA HARP CNVU CLAD WORM AMPH
0	1	18 4 19 11 3
0	2	62 34 14 15 8
0	REP	NEMA HARP CNVU CLAD WORM AMPH
0	1	36.0 8.0 38.0 22.0 6.0
0	2	124.0 68.0 28.0 30.0 16.0
0	MEAN	80.0 38.0 33.0 26.0 11.0
0	SD	62.2 42.4 7.1 5.7 5.7
0	SE	44.0 30.0 5.0 4.0 5.0
1		

## CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE	3 JUL 1984, 1300 HRS PST
0	STATION	CR 1
0	SAMPLE AREA	0.50 SQ M , DEPTH 0 CM
0	REP	CNVU HARP NEMA MYSI WORM OSTR
0	1	35 39 26 6 10 11
0	2	154 119 83 28 19 18
0	REP	CNVU HARP NEMA MYSI WORM OSTR
0	1	70.0 78.0 52.0 12.0 20.0 22.0
0	2	308.0 238.0 166.0 56.0 38.0 36.0
0	MEAN	169.0 158.0 109.0 24.0 29.0 9.0
0	SD	168.3 113.1 80.6 31.1 12.7 9.9
0	SE	119.0 80.0 57.0 22.0 9.0 7.0
1		

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE	3 JUL 1984, 1740 HRS PST	RAW COUNTS												
0	STATION	CR 17	NUMBERS PER 1.00 SQ M												
0	SAMPLE AREA	0.50 SQ M , DEPTH 0 CM	CALA				HARP				BNAU				
0	REP	NEMA	CLAD	EGGS	CNAU	OSTR	CALA	WORM	MYSI	ACAR	HARP	BNAU	POLY	CUMA	
0	0	1	124	21	22	29	4	10	6	9	2	6	5	1	1
0	0	2	90	35	20	12	21	14	6	2	7	3	0	0	0
0	REP	NEMA	CLAD	EGGS	CNAU	OSTR	CALA	WORM	MYSI	ACAR	HARP	BNAU	POLY	CUMA	AMPH
0	0	1	248.0	42.0	44.0	58.0	8.0	20.0	12.0	18.0	4.0	12.0	10.0	2.0	2.0
0	0	2	180.0	70.0	40.0	24.0	42.0	28.0	12.0	4.0	14.0	6.0	0.0	0.0	0.0
0	MEAN	SD	SE	MEAN	SD	SE	MEAN	SD	SE	MEAN	SD	SE	MEAN	SD	SE
0	0	0	0	214.0	56.0	42.0	41.0	25.0	24.0	12.0	11.0	9.0	5.0	1.0	1.0
0	0	0	0	48.1	19.8	2.8	24.0	5.7	0.0	9.9	7.1	4.2	7.1	1.4	1.4
0	0	0	0	34.0	14.0	2.0	17.0	4.0	0.0	7.0	5.0	3.0	5.0	1.0	1.0
1															

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE	3 JUL 1984, 1805 HRS PST	RAW COUNTS												
0	STATION	CR 11	NUMBERS PER 1.00 SQ M												
0	SAMPLE AREA	0.50 SQ M , DEPTH 0 CM	CALA				HARP				BNAU				
0	REP	NEMA	CLAD	ACAR	HARP	CALA	WORM	OSTR	EGGS	MYSI	BNAU	ROTI	GEGG	POLY	ECHL
0	0	1	106	22	20	17	15	9	10	8	4	1	2	0	0
0	0	2	35	17	17	8	5	8	5	4	1	2	0	1	1
0	REP	NEMA	CLAD	ACAR	HARP	CALA	WORM	OSTR	EGGS	MYSI	BNAU	ROTI	GEGG	POLY	ECHL
0	0	1	212.0	44.0	40.0	34.0	30.0	18.0	20.0	16.0	8.0	2.0	6.0	4.0	0.0
0	0	2	70.0	34.0	34.0	16.0	10.0	16.0	10.0	8.0	2.0	4.0	0.0	2.0	0.0
0	MEAN	SD	SE	MEAN	SD	SE	MEAN	SD	SE	MEAN	SD	SE	MEAN	SD	SE
0	0	0	0	141.0	39.0	37.0	25.0	20.0	17.0	15.0	12.0	5.0	3.0	2.0	1.0
0	0	0	0	100.4	7.1	4.2	12.7	14.1	1.4	7.1	5.7	4.2	4.2	2.8	1.4
0	0	0	0	71.0	5.0	3.0	9.0	10.0	1.0	5.0	4.0	3.0	1.0	2.0	1.0

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 17 JUL 1984, 1350 HRS PST	0	STATION CR 7	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM														
0	REP	NEMA	QNAU	HARP	OSTR	MSSI	WORM	AMPH	EGGS	GEGG	ROTI	ACAR	BNAU	BTVA	POLY	CLAD	MEDU	ECHL	
0	0	1	50	33	34	20	35	7	8	2	0	0	1	0	1	0	0	0	
0	0	2	129	110	95	65	12	20	9	2	3	2	1	0	1	1	0	0	
0	0	REP	NEMA	QNAU	HARP	OSTR	MSSI	WORM	AMPH	EGGS	GEGG	ROTI	ACAR	BNAU	BTVA	POLY	CLAD	MEDU	ECHL
0	0	1	100.0	66.0	68.0	40.0	70.0	14.0	16.0	4.0	0.0	0.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0
0	0	2	258.0	220.0	190.0	130.0	24.0	40.0	18.0	4.0	6.0	4.0	2.0	0.0	2.0	0.0	2.0	0.0	0.0
0	0	MEAN	179.0	143.0	129.0	85.0	47.0	27.0	17.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0
0	0	SD	111.7	108.9	86.3	63.6	32.5	18.4	1.4	0.0	4.2	2.8	1.4	1.4	1.4	1.4	1.4	0.0	0.0
0	0	SE	79.0	77.0	61.0	45.0	23.0	13.0	1.0	0.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0
1																			

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 17 JUL 1984, 1450 HRS PST	0	STATION CR 1	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM														
0	REP	HARP	QNAU	NEMA	MSSI	WORM	OSTR	ACAR	GEGG	ECCS	BCYP	CLAD	AMPH	POLY	ECTO	ECHL	MEDU	ISOP	
0	0	1	148	112	91	88	76	48	9	4	0	2	3	1	1	0	0	0	
0	0	2	23	25	34	28	16	10	5	0	1	5	2	0	1	1	0	0	
0	0	REP	HARP	QNAU	NEMA	MSSI	WORM	OSTR	ACAR	GEGG	ECCS	BCYP	CLAD	AMPH	POLY	ECTO	ECHL	MEDU	ISOP
0	0	1	296.0	224.0	182.0	152.0	96.0	18.0	18.0	8.0	0.0	4.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0
0	0	2	46.0	50.0	68.0	56.0	32.0	20.0	10.0	0.0	2.0	10.0	4.0	0.0	2.0	2.0	0.0	0.0	0.0
0	0	MEAN	171.0	137.0	125.0	116.0	92.0	58.0	14.0	9.0	5.0	5.0	4.0	3.0	2.0	1.0	0.0	0.0	0.0
0	0	SD	176.8	123.0	80.6	84.9	84.9	53.7	5.7	12.7	4.2	7.1	0.0	4.2	0.0	1.4	0.0	0.0	0.0
0	0	SE	125.0	87.0	57.0	60.0	38.0	4.0	9.0	3.0	5.0	0.0	3.0	0.0	1.0	0.0	0.0	0.0	0.0

## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 17 JUL 1984, 1600 HRS PST	0	SAMPLE AREA	0.50 SQ M , DEPTH 0 CM	RAW COUNTS										NUMBERS PER 1.00 SQ M									
0	REP	OSTR	WORM	HARP	NEMA	CNAU	MYSI	ACAR	EGGS	AMPH	BIV/A	GEGG	CLAD	ISOP	CALA	POLY	ECHL	MEDU						
0	0	1	406	93	294	71	229	15	9	2	3	1	2	0	1	0	0	0						
0	0	2	980	819	499	576	200	7	9	10	2	0	1	0	1	0	0	0						
0	0	REP	OSTR	WORM	HARP	NEMA	CNAU	MYSI	ACAR	EGGS	AMPH	BIV/A	GEGG	CLAD	ISOP	CALA	POLY	ECHL	MEDU					
0	0	1	812.0	186.0	588.0	142.0	458.0	30.0	18.0	4.0	6.0	4.0	2.0	4.0	0.0	2.0	0.0	0.0	0.0					
0	0	2	1960.0	1638.0	998.0	1152.0	400.0	14.0	18.0	20.0	4.0	0.0	2.0	0.0	2.0	0.0	2.0	0.0	0.0					
0	0	MEAN	1386.0	912.0	793.0	647.0	429.0	22.0	18.0	12.0	5.0	2.0	2.0	1.0	1.0	1.0	0.0	0.0	0.0					
0	0	SD	811.8	1026.7	289.9	714.2	411.0	11.3	0.0	11.3	1.4	2.8	0.0	2.8	1.4	1.4	0.0	0.0	0.0					
0	0	SE	574.0	726.0	205.0	505.0	29.0	8.0	0.0	8.0	1.0	2.0	0.0	2.0	1.0	1.0	0.0	0.0	0.0					
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## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 17 JUL 1984, 1700 HRS PST	0	SAMPLE AREA	0.50 SQ M , DEPTH 0 CM	RAW COUNTS										NUMBERS PER 1.00 SQ M									
0	REP	OSTR	NEMA	HARP	CNAU	WORM	ACAR	EGGS	BIV/A	CLAD	AMPH	MYSI	BNAU	CALA	INSE	GEGG	SIPH	ECHL						
0	0	1	196	226	153	172	38	19	5	0	2	1	2	1	0	0	0	0	0					
0	0	2	1438	1243	199	96	221	18	21	14	7	7	1	2	2	1	0	0	0					
0	0	REP	OSTR	NEMA	HARP	CNAU	WORM	ACAR	EGGS	BIV/A	CLAD	AMPH	MYSI	BNAU	CALA	INSE	GEGG	SIPH	ECHL					
0	0	1	392.0	452.0	306.0	344.0	76.0	38.0	10.0	0.0	4.0	2.0	10.0	4.0	2.0	0.0	0.0	0.0	0.0					
0	0	2	2876.0	2486.0	398.0	192.0	442.0	36.0	42.0	28.0	14.0	2.0	4.0	4.0	4.0	4.0	2.0	0.0	0.0					
0	0	MEAN	1634.0	1469.0	352.0	268.0	259.0	37.0	26.0	14.0	9.0	6.0	4.0	3.0	2.0	1.0	0.0	0.0	0.0					
0	0	SD	1756.5	1438.3	65.1	107.5	258.8	1.4	22.6	19.8	7.1	8.5	5.7	0.0	1.4	2.8	1.4	0.0	0.0					
0	0	SE	1242.0	1017.0	46.0	76.0	183.0	1.0	16.0	14.0	5.0	6.0	4.0	1.0	2.0	1.0	0.0	0.0	0.0					
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CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

DATE 31 JUL 1984, 1320 HRS PST  
STATION OR 7

RAW COUNTS										NUMBERS PER 1.00 SQ M									
0	REP	NEMA	OSTR	CVAU	HARP	AMPH	WORM	QAD	ACAR	MSSI	ISOP	EGGS	ROTI	GEGG	CALA	TARD	ECHL	MDU	
0	1	95	44	81	19	14	14	18	5	2	1	2	3	3	1	0	0	0	
0	2	615	516	375	267	171	158	22	28	16	10	8	3	3	3	1	0	0	
0	REP	NEMA	OSTR	CVAU	HARP	AMPH	WORM	QAD	ACAR	MSSI	ISOP	EGGS	ROTI	GEGG	CALA	TARD	ECHL	MDU	
0	1	190.0	88.0	162.0	38.0	342.0	28.0	36.0	10.0	4.0	2.0	4.0	6.0	6.0	2.0	0.0	0.0	0.0	
0	2	1230.0	1032.0	750.0	534.0	316.0	44.0	56.0	32.0	20.0	16.0	6.0	6.0	6.0	2.0	0.0	0.0	0.0	
0	MEAN	710.0	560.0	456.0	286.0	185.0	172.0	40.0	33.0	18.0	11.0	10.0	6.0	6.0	4.0	1.0	0.0	0.0	
0	SD	735.4	667.5	415.8	350.7	222.0	203.6	5.7	32.5	19.8	12.7	8.5	0.0	0.0	2.8	1.4	0.0	0.0	
0	SE	520.0	472.0	294.0	248.0	157.0	144.0	4.0	23.0	14.0	9.0	6.0	0.0	0.0	2.0	1.0	0.0	0.0	

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

DATE 31 JUL 1984, 1400 HRS PST  
STATION CR 1

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES  
DATE 31 JUL 1984, 1400 HRS PST

0 DATE 31 JUL 1984, 1400 HRS PST  
0 STATION CR 1  
0 SAMPLE AREA 0.50 SQ M , DEPTH 0 CM

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

DATE 31 JUL 1984, 1635 HRS PST  
STATION CR 11

CAMPBELL RIVER FORESHORE STUDY: SEDIMENT SAMPLES: ESTUARINE ZONE: MAJOR CATEGORIES

DATE 31 JUL 1984, 1635 HRS PST

NCR 11

SAMPLE AREA 0-50 SQ M - DEPTH 0 CM

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## CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 1 AUG 1984, 1640 HRS PST	0	STATION CR 17	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM	RAW COUNTS						NUMBERS PER 1.00 SQ M					
0	REP	NEMA	OSTR	CNAU	HARP	CLAD	EGGS	GEGG	ROTI	CALA	GAST	AMPH	ISOP	MYSI	ECHL	POLY	
0	0	1	229	74	33	35	11	16	2	5	5	0	2	0	0	0	
0	0	2	553	86	97	59	38	16	28	6	2	0	1	2	1	0	
0	0	REP	NEMA	OSTR	CNAU	HARP	CLAD	EGGS	ACAR	GEGG	ROTI	CALA	GAST	AMPH	ISOP	POLY	
0	0	1	458.0	148.0	66.0	70.0	22.0	32.0	4.0	10.0	10.0	0.0	6.0	4.0	0.0	0.0	
0	0	2	1106.0	172.0	194.0	118.0	32.0	56.0	4.0	12.0	0.0	2.0	0.0	4.0	2.0	0.0	
0	0	MEAN	782.0	160.0	130.0	94.0	49.0	32.0	30.0	11.0	7.0	6.0	4.0	2.0	1.0	0.0	
0	0	SD	458.2	17.0	90.5	33.9	38.2	0.0	36.8	1.4	4.2	8.5	7.1	2.8	1.4	0.0	
0	0	SE	324.0	12.0	64.0	24.0	27.0	0.0	26.0	1.0	3.0	6.0	5.0	2.0	1.0	0.0	
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## CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 14 AUG 1984, 1145 HRS PST	0	STATION CR 7	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM	RAW COUNTS						NUMBERS PER 1.00 SQ M					
0	REP	NEMA	CNAU	CLAD	CALA	MYSI	EGGS	ACAR	GEGG	ROTI	OSTR	HARP	PARA	ECHL	POLY	TANA	
0	0	1	5	5	6	1	0	0	0	1	1	0	0	0	0	0	
0	0	2	21	6	5	0	4	5	4	1	0	0	1	0	0	0	
0	0	REP	NEMA	CNAU	CLAD	CALA	MYSI	EGGS	ACAR	GEGG	ROTI	OSTR	HARP	PARA	ECHL	POLY	
0	0	1	10.0	10.0	12.0	2.0	0.0	0.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	
0	0	2	42.0	12.0	10.0	0.0	8.0	10.0	8.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0	
0	0	MEAN	26.0	11.0	6.0	5.0	4.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	
0	0	SD	22.6	1.4	1.4	8.5	4.2	7.1	5.7	1.4	1.4	1.4	0.0	0.0	0.0	0.0	
0	0	SE	16.0	1.0	1.0	6.0	3.0	5.0	4.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	
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CAMPBELL, RIVER FORESHORE STUDY: SLED SAMPLES:ESTUARINE ZONE: MAJOR CATEGORIES

DATE 14 AUG 1984. 1405 HRS PST

STATION CB 17

SAMPLE AREA 0 50 80 M DEPTH 0 CM

SAMPLE AREA 0.30 M<sup>2</sup>, DEFH 0 CM

RAW COUNTS

CAMPBELL RIVER FORESHORE STUDY: SEDIMENTS: ESTUARINE ZONE: MAJOR CATEGORIES

DATE 14 AUG 1984 1450 HRS PST

STATION CB 1

STATION AREA 1

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CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

DATE 14 AUG 1984, 1550 HRS PST

STATION CR 11

SAMPLE AREA 0.50 SQ M : DEPTH 0 CM

RAW COUNTS

	REP	NEMA	OSTR	ONAU	EGGS	CLAD	WORM	ACAR	HARP	ROTI	MEDU	SIPH	ECHL	POLY	PARA	ISOP	TANA
1	38	14	3	4	6	3	1	0	1	1	0	0	0	0	0	0	0
2	14	4	5	3	0	0	2	2	1	1	0	0	0	0	0	0	0

CAMPBELL RIVER FORESHORE STUDY: SLED SAMPLES: ESTUARINE ZONE: MAJOR CATEGORIES

DATE 28 AUG 1984; 1235 HRS PST

STATION CB 7

SAMPLE AREA 0 50 50 M DEPTH 0 CM

## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 28 AUG 1984, 1440 HRS PST	0	STATION CR 1	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM	RAW COUNTS													
0	REP	CNAU	NEMA	HARP	WORM	CLAD	CALA	OSTR	ACAR	MYSTI	GEGG	BNAU	ISOP	EUPH	EOHL	PARA	MEDU	SIPH	
0	0	1	42	28	15	21	7	3	4	2	2	2	1	0	0	0	0	0	
0	0	2	48	33	11	5	7	6	5	1	3	2	0	0	0	0	0	0	
0	0	REP	CNAU	NEMA	HARP	WORM	CLAD	CALA	OSTR	ACAR	MYSTI	GEGG	BNAU	ISOP	EUPH	EOHL	PARA	MEDU	SIPH
0	0	1	84.0	56.0	30.0	42.0	14.0	6.0	8.0	8.0	4.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
0	0	2	96.0	66.0	22.0	10.0	14.0	12.0	10.0	2.0	6.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	0	MEAN	90.0	61.0	26.0	26.0	14.0	9.0	9.0	5.0	5.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
0	0	SD	8.5	7.1	5.7	22.6	0.0	4.2	1.4	4.2	1.4	0.0	2.8	1.4	0.0	0.0	0.0	0.0	0.0
0	0	SE	6.0	5.0	4.0	16.0	0.0	3.0	1.0	3.0	1.0	0.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
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## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 28 AUG 1984, 1520 HRS PST	0	STATION CR 17	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM	RAW COUNTS													
0	REP	NEMA	OSTR	CNAU	HARP	AMPH	ACAR	WORM	MYSTI	GEGG	CLAD	EGGS	CALA	SIPH	EOHL	PARA	MEDU	POLY	
0	0	1	1035	130	24	29	25	23	13	6	6	4	1	0	0	0	0	0	
0	0	2	197	27	42	6	1	2	3	2	1	3	1	1	0	0	0	0	
0	0	REP	NEMA	OSTR	CNAU	HARP	AMPH	ACAR	WORM	MYSTI	GEGG	CLAD	EGGS	CALA	SIPH	EOHL	PARA	MEDU	POLY
0	0	1	2070.0	260.0	188.0	58.0	50.0	46.0	26.0	12.0	8.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	0	2	394.0	54.0	84.0	12.0	2.0	4.0	6.0	4.0	2.0	6.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
0	0	MEAN	1232.0	157.0	136.0	35.0	26.0	25.0	16.0	8.0	7.0	7.0	5.0	1.0	0.0	0.0	0.0	0.0	0.0
0	0	SD	1185.1	145.7	73.5	32.5	33.9	29.7	14.1	5.7	7.1	1.4	4.2	1.4	0.0	0.0	0.0	0.0	0.0
0	0	SE	838.0	103.0	52.0	23.0	24.0	21.0	10.0	4.0	5.0	1.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0

## CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 28 AUG 1984, 1545 HRS PST	0	SAMPLE AREA	0.50 SQ M , DEPTH 0 CM	RAW COUNTS										NUMBERS PER 1.00 SQ M									
0	REP	NEMA	HARP	WORM	CNAU	OSTR	MYSI	ISOP	CLAD	EGGS	ROTI	ACAR	CALA	AMPH	ECHL	TARD	BTVA	STPH	MEDU	POLY				
0	0	1	29	10	3	4	3	0	2	0	2	1	1	0	0	0	0	0	0	0				
0	0	2	30	32	33	24	16	15	14	4	0	0	0	0	0	0	0	0	0	0				
0	0	REP	NEMA	HARP	WORM	CNAU	OSTR	MYSI	ISOP	CLAD	EGGS	ROTI	ACAR	CALA	AMPH	ECHL	TARD	BTVA	STPH	MEDU	POLY			
0	0	1	58.0	20.0	6.0	8.0	6.0	0.0	4.0	0.0	4.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
0	0	2	60.0	64.0	48.0	48.0	32.0	30.0	28.0	8.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
0	0	MEAN	59.0	42.0	36.0	28.0	20.0	18.0	14.0	6.0	4.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
0	0	SD	1.4	31.1	42.4	28.3	17.0	17.0	19.8	2.8	5.7	2.8	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
0	0	SE	1.0	22.0	30.0	20.0	12.0	12.0	14.0	2.0	4.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
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## CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 28 AUG 1984, 1610 HRS PST	0	SAMPLE AREA	0.50 SQ M , DEPTH 0 CM	RAW COUNTS										NUMBERS PER 1.00 SQ M									
0	REP	NEMA	WORM	CNAU	HARP	AMPH	OSTR	ROTI	CLAD	ACAR	EGGS	CALA	BTVA	TARD	ECHL	STPH	MEDU	POLY						
0	0	1	15	2	17	17	0	9	1	4	3	2	1	0	0	0	0	0	0	0	0			
0	0	2	491	143	116	71	63	50	11	4	2	3	1	0	1	0	0	0	0	0	0			
0	0	REP	NEMA	WORM	CNAU	HARP	AMPH	OSTR	ROTI	CLAD	ACAR	EGGS	CALA	BTVA	TARD	ECHL	STPH	MEDU	POLY					
0	0	1	30.0	4.0	34.0	34.0	0.0	18.0	2.0	8.0	6.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
0	0	2	982.0	286.0	232.0	142.0	126.0	100.0	22.0	8.0	4.0	6.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0			
0	0	MEAN	506.0	145.0	133.0	88.0	63.0	59.0	12.0	8.0	5.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
0	0	SD	673.2	199.4	140.0	76.4	89.1	58.0	14.1	0.0	1.4	0.0	1.4	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0			
0	0	SE	476.0	141.0	99.0	54.0	63.0	41.0	10.0	0.0	1.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0			
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CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

DATE 28 AUG 1984, 1655 HRS PST

STATION QB 1

SAMPLE AREA 0 50 50 M DEPTH 0 CM

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RAW COUNTS

W. COUNTS	HARP	EGGS	CLAD	POLY	BIVA	GEGG	ECTO	OSTR	ACAR	TUNI
5	5	4	3	5	3	3	2	2	0	0
5	5	4	5	2	3	3	1	0	1	1

## RAW COUNTS

CAMPBELL RIVER FORESHORE STUDY; SEDIMENT SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

DATE 28 AUG 1984. 1655 HRS PST

STATION QB 1

SAMPLE AREA 0-50-50 M DEPTH 0 CM

	RS	PER	1.00	SO	M	HARP	EGCS	QAD	POLY	BIVIA	GEGG	ECTO	OSTR	ACAR	TUNI
MM	MM	MM	MM	MM	MM	MM	MM	MM	MM	MM	MM	MM	MM	MM	MM
0	10.0	8.0	6.0	6.0	10.0	10.0	10.0	10.0	10.0	6.0	6.0	4.0	4.0	0.0	0.0

10.0

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CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 28 AUG 1984, 1700 HRS PST
0	STATION CR 17
0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM
0	
0	REP CNWU CALA POLY BNWU NEMA HARP CLAD GAST EGGS TUNI WORM BIWA ECTO ROTI EGGS OSTR EGHL
0	1 109 72 17 7 9 8 8 2 3 2 3 0 1 0 1 0
0	2 132 68 28 9 6 6 5 7 2 2 1 4 2 1 0 0
0	
0	REP CNWU CALA POLY BNWU NEMA HARP CLAD GAST EGGS TUNI WORM BIWA ECTO ROTI EGGS OSTR EGHL
0	1 218.0 144.0 34.0 14.0 18.0 16.0 16.0 4.0 6.0 4.0 6.0 0.0 2.0 0.0 2.0 0.0
0	2 264.0 136.0 56.0 18.0 12.0 12.0 10.0 4.0 4.0 4.0 4.0 8.0 4.0 4.0 2.0 0.0
0	MEAN 241.0 140.0 45.0 16.0 15.0 14.0 13.0 9.0 5.0 4.0 4.0 3.0 2.0 1.0 1.0 0.0
0	SD 32.5 5.7 15.6 2.8 4.2 2.8 4.2 1.4 0.0 2.8 5.7 1.4 2.8 1.4 1.4 0.0
0	SE 23.0 4.0 11.0 2.0 3.0 2.0 3.0 5.0 1.0 0.0 2.0 4.0 1.0 2.0 1.0 0.0
1	

CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 11 SEP 1984, 1336 HRS PST
0	STATION CR 1
0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM
0	
0	REP HARP NEMA CNWU MYSI WORM CALA EGGS OSTR CLAD GEGL ECHL SIPH CHAE POLY PARA MEDU TANA
0	1 48 13 11 3 0 5 3 0 1 1 0 0 0 0 0 0
0	2 7 12 1 3 5 0 0 1 0 0 0 0 0 0 0 0
0	
0	REP HARP NEMA CNWU MYSI WORM CALA EGGS OSTR CLAD GEGL ECHL SIPH CHAE POLY PARA MEDU TANA
0	1 96.0 26.0 22.0 6.0 0.0 10.0 6.0 0.0 2.0 2.0 0.0 0.0 0.0 0.0 0.0 0.0
0	2 14.0 24.0 2.0 6.0 10.0 0.0 0.0 2.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0	MEAN 55.0 25.0 12.0 6.0 5.0 5.0 3.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0
0	SD 58.0 1.4 14.1 0.0 7.1 4.2 1.4 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0	SE 41.0 1.0 10.0 0.0 5.0 5.0 3.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0



## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 11 SEP 1984, 1408 HRS PST	0	STATION CR 7	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM	RAW COUNTS						NUMBERS PER 1.00 SQ M						
0	REP	OSTR	NEMA	HARP	CNAU	MYSI	AMPH	WORM	ACAR	TARD	ISOP	SIPH	EUPH	ECHL	FILA	PARA	MEDU	POLY
0	1	94	29	12	6	6	3	1	0	1	0	0	0	0	0	0	0	0
0	2	18	5	4	4	4	0	1	1	1	0	0	0	0	0	0	0	0
0	REP	OSTR	NEMA	HARP	CNAU	MYSI	AMPH	WORM	ACAR	TARD	ISOP	SIPH	EUPH	ECHL	FILA	PARA	MEDU	POLY
0	1	188.0	58.0	24.0	12.0	12.0	6.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	2	36.0	10.0	8.0	8.0	8.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	MEAN	112.0	34.0	16.0	10.0	10.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	SD	107.5	33.9	11.3	2.8	2.8	4.2	0.0	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	SE	76.0	24.0	8.0	2.0	2.0	3.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1																		

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## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 25 SEP 1984, 1300 HRS PST	0	STATION CR 1	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM	RAW COUNTS						NUMBERS PER 1.00 SQ M						
0	REP	HARP	CNAU	NEMA	MYSI	WORM	EGGS	ACAR	OSTR	CALA	AMPH	GEGG	ROTI	TARD	ECHL	PARA	MEDU	POLY
0	1	11	22	9	11	2	0	1	1	1	1	0	1	1	0	0	0	0
0	2	83	63	22	0	4	4	2	0	0	0	0	1	0	0	0	0	0
0	REP	HARP	CNAU	NEMA	MYSI	WORM	EGGS	ACAR	OSTR	CALA	AMPH	GEGG	ROTI	TARD	ECHL	PARA	MEDU	POLY
0	1	22.0	44.0	18.0	22.0	4.0	0.0	2.0	2.0	2.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0
0	2	166.0	126.0	44.0	0.0	8.0	8.0	4.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0
0	MEAN	94.0	85.0	31.0	11.0	6.0	4.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
0	SD	101.8	58.0	18.4	15.6	2.8	5.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0
0	SE	72.0	41.0	13.0	11.0	2.0	4.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0

CAMPBELL RIVER FORESTORE STUDY: SFD SAMPLES: ESTUARINE ZONE: MAJOR CATEGORIES

0 DATE 25 SEP 1984, 1311 HRS PST  
0 STATION QR 7  
0 SAMPLE AREA 0.50 SO M : DEPTH 0 CM

CAMPBELL RIVER FORESHORE STUDY SITE ESTUARINE ZONE: MAJOR CATEGORIES

DATE 25 SEP 1984, 1324 HRS PST  
STATION CR 17  
SAMPLE AREA 0.50 SQ M : DEPTH 0 CM

## CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 25 SEP 1984, 1347 HRS PST	0	STATION CR 11	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM	RAW COUNTS													
0	REP	HARP	CNAU	NEMA	OSTR	MYSI	WORM	EGGS	ACAR	CALA	CLAD	FILA	SIPH	ECHL	POLY	PARA	MEDU	TANA	
0	0	1	98	45	27	15	5	7	2	1	0	0	0	0	0	0	0	0	
0	0	2	51	28	9	3	4	1	3	0	1	1	0	0	0	0	0	0	
0	0	REP	HARP	CNAU	NEMA	OSTR	MYSI	WORM	EGGS	ACAR	CALA	CLAD	FILA	SIPH	ECHL	POLY	PARA	MEDU	TANA
0	0	1	196.0	90.0	54.0	30.0	10.0	14.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	0	2	102.0	56.0	18.0	6.0	8.0	2.0	6.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	0	MEAN	149.0	73.0	36.0	18.0	9.0	8.0	5.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	0	SD	66.5	24.0	25.5	17.0	1.4	8.5	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	0	SE	47.0	17.0	18.0	12.0	1.0	6.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1																			

## CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 25 SEP 1984, 1520 HRS PST	0	STATION CR 7	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM	RAW COUNTS													
0	REP	CNAU	CALA	NEMA	HARP	ACAR	GAST	ECTO	BIVA	OSTR	CLAD	WORM	MYSI	TUNI	POLY	ROTI	SIPH	TANA	
0	0	1	26	18	12	15	6	7	4	3	1	2	1	2	1	0	0	0	
0	0	2	23	13	11	5	2	0	1	1	1	2	1	1	1	1	1	0	
0	0	REP	CNAU	CALA	NEMA	HARP	ACAR	GAST	ECTO	BIVA	OSTR	CLAD	WORM	MYSI	TUNI	POLY	ROTI	SIPH	TANA
0	0	1	52.0	36.0	24.0	30.0	12.0	14.0	8.0	6.0	6.0	2.0	4.0	4.0	2.0	0.0	0.0	0.0	0.0
0	0	2	46.0	26.0	22.0	10.0	4.0	0.0	2.0	2.0	4.0	2.0	0.0	2.0	2.0	2.0	2.0	0.0	0.0
0	0	MEAN	49.0	31.0	23.0	20.0	8.0	7.0	5.0	4.0	4.0	3.0	2.0	2.0	1.0	1.0	1.0	0.0	0.0
0	0	SD	4.2	7.1	1.4	14.1	5.7	9.9	4.2	2.8	1.4	2.8	1.4	2.8	0.0	1.4	1.4	0.0	0.0
0	0	SE	3.0	5.0	1.0	10.0	4.0	7.0	3.0	2.0	2.0	1.0	2.0	2.0	1.0	1.0	1.0	0.0	0.0

CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

) DATE 26 SEP 1984, 1430 HRS PST

CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

DATE 26 SEP 1984, 1430 HRS PST

## CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES

0	DATE 26 SEP 1984, 1530 HRS PST
0	STATION CR 17
0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM
0	
0	REP CALA QNAU HARP OSTR NEMA ECTO MYSI POLY TUNI WORM AMPH SIPH ACAR INSE ROTI BIVA CLAD
0	1 47 21 6 2 3 4 0 2 5 3 0 1 3 1 0 1 0 1 1
0	2 11 20 8 11 10 2 6 4 0 1 3 1 0 1 0 0 0 0 0
0	
0	REP GEGG ECHL BCYP CRZO EUPH MEDU GAST TANA CLMA EGGS CHAE BNAL PARA ISOP TARD DECA FILA
0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0	2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1	

0	DATE 26 SEP 1984, 1530 HRS PST
0	STATION CR 17
0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM
0	
0	REP CALA QNAU HARP OSTR NEMA ECTO MYSI POLY TUNI WORM AMPH SIPH ACAR INSE ROTI BIVA CLAD
0	1 94.0 42.0 12.0 4.0 6.0 8.0 0.0 4.0 10.0 6.0 0.0 2.0 2.0 0.0 2.0 2.0 0.0 2.0 2.0
0	2 22.0 40.0 16.0 22.0 20.0 4.0 12.0 8.0 0.0 2.0 6.0 0.0 2.0 2.0 0.0 2.0 2.0 0.0 2.0
0	
0	MEAN 58.0 41.0 14.0 13.0 13.0 6.0 6.0 5.0 4.0 3.0 2.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
0	SD 50.9 1.4 2.8 12.7 9.9 2.8 8.5 2.8 7.1 2.8 4.2 0.0 1.4 1.4 1.4 1.4 1.4 1.4 1.4
0	SE 36.0 1.0 2.0 9.0 7.0 2.0 6.0 2.0 5.0 2.0 3.0 0.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
0	
0	REP GEGG ECHL BCYP CRZO EUPH MEDU GAST TANA CLMA EGGS CHAE BNAL PARA ISOP TARD DECA FILA
0	1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0	2 2.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0	
0	MEAN 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0	SD 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0	SE 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

Table 8. Major epifauna categories. Estuarine zone. Numbers  $m^{-2}$  for each station and for all stations combined.

MEIOTAB2: CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES;ESTUARINE ZONE;MAJOR CATEGORIES	
0	34. MEIOFAUNA CATEGORIES:
0	CODE IDENTIFICATION
0	HARP = HARPACTICOID COPEPODS
0	NAU = COPEPOD NAUPLII
0	NEMA = NEMATODES
0	CALA = CALANOID COPEPODS
0	WORM = WORMS
0	OSTR = OSTRACODS
0	ACAR = ACARINANS
0	EGGS = UNIDENTIFIED EGGS
0	TUNI = TUNICATES
0	AMPH = AMPHIPODS
0	GAST = GASTROPODS
0	ECTO = ECTOPROCTS
0	BNAU = BARNACLE NAUPLII
0	CRZO = CRAB ZOEA
0	BCYP = BARNACLE CYPRIS
0	CEGG = GASTROPOD EGGS
0	MYSI = MYSIDS
0	CLAD = CLADOCERANS
0	TSOP = ISOPODS
0	INSE = INSECTS
0	BIVVA = BIVALVES
0	CHAE = CHAETOGNATHS
0	EUPH = EURHAUSTIDS
0	CUMA = CUMACEANS
0	TANA = TANAIDACEANS
0	MEDU = MEDUSAE
0	PARA = PARASITIC COPEPODS
0	POLY = POLYCHAETES
0	ECHL = ECHINODERM LARVAE
0	SIPH = SIPHONOPHORES
0	FILA = FISH LARVAE
0	ROTI = ROTIFIERS
0	DECA = DECAPODS
0	TARD = TARDIGRADES

CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES  
0 NUMBERS PER 1.00 SQ M AVERAGED OVER ALL SAMPLES FOR STATION 1\*

0	STAT	NEMA	CNAU	HARP	MYSI	OSTR	WORM	CALA	ACAR	ISOP	CLAD	EGGS	AMPH	GEGG	BNAU	ECTO	POLY	ROTI
0	MEAN	78.2	66.5	50.2	35.9	20.6	16.8	10.3	8.9	6.5	6.4	4.1	2.9	0.9	0.6	0.5	0.6	0.5
0	SD	72.7	68.4	80.4	95.4	45.9	29.1	12.6	11.6	12.0	8.4	6.4	5.8	3.7	2.9	2.6	1.4	1.5
0	SE	12.5	11.7	13.8	16.4	7.9	5.0	2.2	2.0	2.1	1.4	1.1	1.0	0.6	0.5	0.4	0.2	0.3
0	V/MEAN	67.6	70.3	128.7	253.2	102.5	50.5	15.4	15.0	22.1	11.1	9.9	11.6	7.4	8.8	7.5	2.9	4.3
0	S/MEAN	0.9	1.0	1.6	2.7	2.2	1.7	1.2	1.3	1.8	1.3	1.6	2.0	3.1	2.9	2.1	2.8	5.4
0	S/M**M	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.3	0.2	0.4	0.7	1.1	3.3	3.3	3.3	3.3
0	STAT	INSE	BCYP	TARD	GAST	OUMA	TUNI	BIVA	TANA	CRZO	ECHL	EUPH	CHAE	PARA	MEDU	SIPH	DECA	FILA
0	MEAN	0.5	0.4	0.3	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	SD	1.0	1.7	1.4	0.5	0.5	0.5	0.5	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	SE	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	V/MEAN	2.1	8.6	6.7	1.9	1.9	1.9	1.9	1.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	S/MEAN	2.1	4.9	4.8	4.1	4.1	4.1	4.1	4.1	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	S/M**M	4.5	14.0	16.2	34.5	34.5	34.5	34.5	34.5	99.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES 0 NUMBERS PER 1.00 SQ M AVERAGED OVER ALL SAMPLES FOR STATION 7*																	
0	STAT	NEMA	CNAU	OSTR	HARP	AMPH	WORM	CLAD	CALA	ISOP	MYSI	ACAR	EGG	TARD	ROTI	POLY	BNAU	0.5
0	MEAN	119.0	112.7	85.8	73.4	31.5	17.5	10.5	10.4	9.9	6.9	5.5	5.1	1.3	1.1	0.8	0.5	0.5
0	SD	238.0	165.7	187.4	122.8	74.9	54.0	13.4	14.1	18.9	14.0	10.0	5.7	2.6	2.2	1.7	1.0	1.1
0	SE	40.8	28.4	32.1	21.1	12.8	9.3	2.3	2.4	3.2	2.4	1.7	1.0	0.4	0.4	0.3	0.2	0.2
0	V/MEAN	475.8	243.5	409.0	205.4	177.8	166.5	17.1	19.2	35.8	28.3	18.1	6.5	5.0	4.4	3.6	2.1	2.6
0	S/MEAN	2.0	1.5	2.2	1.7	2.4	3.1	1.3	1.4	1.9	2.0	1.8	1.1	2.0	2.0	2.1	2.1	2.4
0	S/M**M	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.1	0.2	0.3	0.3	0.2	1.5	1.9	2.5	4.5	5.0
0	STAT	INSE	ECTO	BIVA	TUNI	GAST	ECHL	CRZO	SIPH	BCYP	EUPH	CHAE	CUMA	PARA	MEDU	TAWA	DECA	FILA
0	MEAN	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	SD	1.1	0.6	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	SE	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	V/MEAN	4.2	1.9	1.9	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	S/MEAN	3.8	3.3	4.1	5.8	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	S/M**M	12.9	18.5	34.5	99.1	99.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

\*HIGH TIDE SAMPLES EXCLUDED.



1 CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES  
 0 NUMBERS PER 1.00 SQ M AVERAGED OVER ALL SAMPLES FOR STATION 17\*

	STAT	NEMA	OSTR	CNAU	HARP	CLAD	WORM	CALA	ACAR	EGGS	AMPH	MYSI	ISOP	GEGG	BIVU	ROTI	ECTO
0	MEAN	571.9	315.6	171.6	92.5	33.6	28.5	23.2	14.5	12.6	11.6	6.6	2.6	1.4	1.0	0.8	0.6
0	SD	991.2	624.2	292.1	147.9	90.3	76.3	48.9	16.1	20.3	30.2	12.3	5.2	3.0	4.8	2.2	2.3
0	SE	170.0	107.0	50.1	25.4	15.5	13.1	8.4	2.8	3.5	5.2	2.1	0.9	0.5	0.8	0.4	1.4
0	V/MEAN	1718.0	1234.4	497.2	236.5	242.6	204.6	102.8	17.9	32.5	78.4	22.7	10.6	6.3	23.3	5.9	3.1
0	S/MEAN	1.7	2.0	1.7	1.6	2.7	2.7	2.1	1.1	1.6	2.6	1.8	2.0	1.5	4.8	2.7	2.3
0	S/MMM	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.8	1.5	4.8	3.3	3.3	3.9
0	STAT	GAST	INSE	POLY	EUPH	CNAU	BCYP	TARD	CRZO	ECHL	SIPH	CHAE	TUNI	PARA	MEDU	TANA	FILA
0	MEAN	0.5	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	SD	1.5	0.9	0.8	0.5	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	SE	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	V/MEAN	4.3	2.4	2.8	1.9	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	S/MEAN	2.8	2.6	3.5	4.1	5.8	5.8	5.8	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	S/MMM	5.4	7.4	14.8	34.5	99.1	99.1	99.1	99.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

1 CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; ESTUARINE ZONE; MAJOR CATEGORIES  
 0 NUMBERS PER 1.00 SQ M AVERAGED OVER ALL SAMPLES FOR STATION ALL\*

	STAT	NEMA	OSTR	CNAU	HARP	WORM	MYSI	CLAD	CALA	AMPH	ACAR	EGGS	ISOP	GEGG	BIVU	ROTI	POLY	ECTO
0	MEAN	222.5	133.4	108.0	75.8	32.2	16.3	14.8	14.5	12.6	10.8	7.2	5.4	1.3	0.8	0.7	0.5	
0	SD	553.3	384.5	182.3	140.8	148.1	54.8	47.1	31.2	42.0	16.5	12.2	12.1	2.8	2.3	1.7	1.6	
0	SE	47.4	33.0	15.6	12.1	12.7	4.7	4.0	2.7	3.6	1.4	1.0	1.0	0.2	0.2	0.1	0.1	
0	V/MEAN	1375.8	1108.3	307.9	261.7	681.1	184.1	149.9	67.2	140.2	25.4	20.8	27.1	6.2	4.2	4.1	5.2	
0	S/MEAN	2.5	2.9	1.7	1.9	4.6	3.4	3.2	2.2	3.3	1.5	1.7	2.2	3.0	2.4	3.3	3.5	
0	S/MMM	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.1	0.3	0.1	0.2	0.4	1.7	3.9	3.3	7.1	
0	STAT	BIWA	TARD	INSE	GAST	BCYP	CUMA	TUNI	EUPH	TANA	DECA	CRZO	ECHL	CHAE	SIPH	MEDU	PARA	FILA
0	MEAN	0.4	0.4	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0	SD	2.5	1.4	0.9	0.8	0.9	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	
0	SE	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0	V/MEAN	16.6	5.0	2.6	3.9	7.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	
0	S/MEAN	6.7	3.7	2.7	4.7	8.6	5.8	6.7	8.2	8.2	11.7	11.7	0.0	0.0	0.0	0.0	0.0	
0	S/MMM	18.3	10.1	8.1	26.5	83.8	98.0	151.5	279.3	279.3	793.0	793.0	0.0	0.0	0.0	0.0	0.0	

\*HIGH TIDE SAMPLES EXCLUDED.

Table 9. Major epifauna categories. Transition zone. Raw counts and numbers  
 $\text{m}^{-2}$ .

1MEIOTAB1: CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

O	METFAUNA CATEGORIES	CODE IDENTIFICATION
O	HARP = HARPACTICOID COPEPODS	
O	NAU = COPEPOD NAUPLII	
O	NEMA = NEMATODES	
O	CALA = CALANOID COPEPODS	
O	WORM = WORMS	
O	OSTR = OSTRACODS	
O	ACAR = ACARINANS	
O	EGGS = UNIDENTIFIED EGGS	
O	TUNI = TUNICATES	
O	AMPH = AMPHIPODS	
O	CAST = GASTROPODS	
O	ECTO = ECTOPROCTS	
O	BNAU = BARNACLE NAUPLII	
O	CRZO = CRAB ZOEA	
O	BCYP = BARNACLE CYPRIS	
O	GEGG = GASTROPOD EGGS	
O	MYST = MYSIDS	
O	CLAD = CLADOCERANS	
O	ISOP = ISOPODS	
O	INSE = INSECTS	
O	BIVA = BIVALVES	
O	CHAE = CHAETOGNATHS	
O	EUPH = EUPHAUSTIDS	
O	CUMA = CUMACEANS	
O	TANA = TANAIDACEANS	
O	MEDU = MEDUSAE	
O	PARA = PARASITIC COPEPODS	
O	POLY = POLYCHAETES	
O	ECHL = ECHINODERM LARVAE	
O	SIPH = SIPHONOPHORES	
O	FILA = FISH LARVAE	
O	ROTI = ROTIFIERS	
O	DECA = DECAPODS	
O	TARD = TARDIGRADES	

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

0	DATE	9 JAN 1984, 2035 HRS PST																
0	STATION OR	20																
0	SAMPLE AREA	0.50 SQ M , DEPTH 0 CM																
0	REP	CALA	CNAU	EGGS	ACAR	OSTR	AMPH	TUNI	ISOP	NEMA	HARP	ECTO	WORM	ECHL	FILA	SIPH	MEDU	POLY
0	1	22	14	9	8	4	3	3	3	2	2	1	1	0	0	0	0	0
0	2	0	1	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0
0	MEAN	22.0	15.0	12.0	8.0	4.0	4.0	3.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
0	SD	31.1	18.4	8.5	11.3	5.7	2.8	4.2	2.8	2.8	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
0	SE	22.0	13.0	6.0	8.0	4.0	2.0	3.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
1																		

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

0	DATE	7 FEB 1984, 1435 HRS PST																
0	STATION OR	20																
0	SAMPLE AREA	0.50 SQ M , DEPTH 0 CM																
0	REP	CALA	CNAU	ECTO	HARP	NEMA	GAST	EGGS	BTVA	ACAR	AMPH	POLY	TUNI	CLAD	ISOP	CUMA	ECGL	FILA
0	1	106	54	14	13	11	4	2	6	3	0	4	2	0	1	1	0	0
0	2	162	62	12	12	5	7	6	1	3	6	2	3	3	1	0	0	0
0	REP	CALA	CNAU	ECTO	HARP	NEMA	GAST	EGGS	BTVA	ACAR	AMPH	POLY	TUNI	CLAD	ISOP	CUMA	ECGL	FILA
0	1	212.0	108.0	28.0	26.0	22.0	8.0	4.0	12.0	6.0	0.0	8.0	4.0	0.0	2.0	2.0	0.0	0.0
0	2	324.0	124.0	24.0	24.0	10.0	14.0	12.0	2.0	6.0	12.0	4.0	6.0	2.0	2.0	0.0	0.0	0.0
0	MEAN	268.0	116.0	26.0	25.0	16.0	11.0	8.0	7.0	6.0	6.0	5.0	3.0	2.0	1.0	0.0	0.0	0.0
0	SD	79.2	11.3	2.8	1.4	8.5	4.2	5.7	7.1	0.0	8.5	2.8	1.4	4.2	0.0	1.4	0.0	0.0
0	SE	56.0	8.0	2.0	1.0	6.0	3.0	4.0	5.0	0.0	6.0	2.0	1.0	3.0	0.0	1.0	0.0	0.0

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

0 DATE 7 MAR 1984, 1515 HRS PST							
0 STATION CR 20							
0 SAMPLE AREA 0.50 SQ M , DEPTH 0 CM							
0 REP	BNAU	CNAU	CALA	HARP	NEMA	EGGS	AMPH
0 1	100	44	23	30	31	31	14
0 2	112	48	41	28	24	21	16
1							
0 REP	BNAU	CNAU	CALA	HARP	NEMA	EGGS	AMPH
0 1	200.0	88.0	46.0	60.0	62.0	62.0	28.0
0 2	224.0	96.0	82.0	56.0	48.0	42.0	32.0
0 MEAN	212.0	92.0	64.0	58.0	55.0	52.0	30.0
0 SD	17.0	5.7	25.5	2.8	9.9	14.1	2.8
0 SE	12.0	4.0	18.0	2.0	7.0	10.0	2.0
1							
RAW COUNTS							
NUMBERS PER 1.00 SQ M							
OSTR GAST CUMA ECTO ISOP WORM ACAR DECA							
0 1	0	0	0	0	0	0	0
0 2	0	0	0	0	0	0	0
1							

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

0 DATE 7 MAR 1984, 1530 HRS PST							
0 STATION CR 21							
0 SAMPLE AREA 0.50 SQ M , DEPTH 0 CM							
0 REP	BNAU	CNAU	CALA	BNAU	NEMA	HARP	TUNI
0 1	76	17	11	16	16	8	8
0 2	67	41	20	14	10	9	7
1							
0 REP	BNAU	CNAU	CALA	BNAU	NEMA	HARP	TUNI
0 1	152.0	34.0	22.0	32.0	32.0	16.0	14.0
0 2	134.0	82.0	40.0	28.0	20.0	18.0	14.0
0 MEAN	143.0	58.0	31.0	30.0	26.0	17.0	14.0
0 SD	12.7	33.9	12.7	2.8	8.5	1.4	0.0
0 SE	9.0	24.0	9.0	2.0	6.0	1.0	0.0
1							
RAW COUNTS							
NUMBERS PER 1.00 SQ M							
OSTR GAST CUMA ECTO ISOP CUMA ACAR FILA							
0 1	0	0	0	0	0	0	0
0 2	0	0	0	0	0	0	0
1							

## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

0	DATE	8 MAR 1984, 1545 HRS PST	RAW COUNTS												RAW COUNTS			RAW COUNTS								
0	STATION CR	34	0.50 SQ M , DEPTH 0 CM												0.50 SQ M , DEPTH 0 CM											
0	SAMPLE AREA		NEMA	CNAU	ISOP	HARP	OSTR	WORM	ACAR	CALA	POLY	CUMA	AMPH	BNAU	QAD	ECHL	EGGS	INSE	MYSI							
0	REP		0	1	31	12	8	12	5	5	6	2	0	0	1	1	1	1	1	1						
0	REP		0	2	23	16	7	1	3	3	1	3	0	2	4	2	1	0	0	0						
0	REP		0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
0	REP		0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
0	REP		0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						

0	DATE	8 MAR 1984, 1545 HRS PST	NUMBERS PER 1.00 SQ M												NUMBERS PER 1.00 SQ M			NUMBERS PER 1.00 SQ M		
0	STATION CR	34	0.50 SQ M , DEPTH 0 CM												0.50 SQ M , DEPTH 0 CM			0.50 SQ M , DEPTH 0 CM		
0	SAMPLE AREA		NEMA	CNAU	ISOP	HARP	OSTR	WORM	ACAR	CALA	POLY	CUMA	AMPH	BNAU	QAD	ECHL	EGGS	INSE	MYSI	
0	REP		0	1	62.0	24.0	16.0	24.0	10.0	10.0	12.0	4.0	8.0	4.0	0.0	2.0	2.0	2.0	2.0	2.0
0	REP		0	2	46.0	32.0	14.0	2.0	6.0	6.0	2.0	6.0	0.0	4.0	8.0	4.0	2.0	0.0	0.0	0.0
0	MEAN		54.0	28.0	15.0	13.0	8.0	8.0	7.0	5.0	4.0	4.0	4.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0
0	SD		0	11.3	5.7	1.4	15.6	2.8	2.8	7.1	1.4	5.7	0.0	5.7	2.8	0.0	1.4	1.4	1.4	1.4
0	SE		0	8.0	4.0	1.0	11.0	2.0	2.0	5.0	1.0	4.0	0.0	4.0	2.0	0.0	1.0	1.0	1.0	1.0
0	REP		0	1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	REP		0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	MEAN		0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	SD		0	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	SE		0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

0 DATE 20 MAR 1984, 1700 HRS PST

0 STATION CR 20 ,

0 SAMPLE AREA 0.50 SQ M : DEPTH 0 CM

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CAMPBELL RIVER FORESHORE SITE: SED SAMPLES: TRANSITION ZONE MAJOR CATEGORIES

DATE 21 MAR 1984- 1520 HRS BST

STATION CB 21

SAMPLE AREA 0 50 90 M DEPTH 0 CM

CAMPBELL RIVER FORESHORE SITE: SEDIMENT SAMPLES: TRANSITION ZONE: MAJOR CATEGORIES

DATE 21 MAR 1984, 1520 HRS PST  
STATION CR 21  
SAMPLE AREA 0.50 SQ M : DEPTH 0 CM

CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

0	DATE 21 MAR 1984, 1615 HRS PST	0	STATION CR 34	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM	RAW COUNTS												
0	REP	CNAU	NEMA	HARP	EVAU	AMPH	OSTR	ISOP	WORM	EGGS	CALA	ACAR	MYSI	POLY	CUMA	ROTI	ECHL	MEDU
0	1	52	40	14	6	7	0	2	5	1	7	4	1	2	1	1	0	0
0	2	36	18	11	5	1	7	4	1	4	4	4	1	2	1	1	0	0
0	MEAN	88.0	58.0	25.0	11.0	8.0	7.0	6.0	5.0	5.0	5.0	5.0	3.0	3.0	2.0	1.0	0.0	0.0
0	SD	22.6	31.1	4.2	1.4	8.5	9.9	2.8	5.7	4.2	4.2	1.4	1.4	1.4	0.0	0.0	0.0	0.0
0	SE	16.0	22.0	3.0	1.0	6.0	7.0	2.0	4.0	3.0	3.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
1																		

CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

0	DATE 3 APR 1984, 1625 HRS PST	0	STATION CR 20	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM	RAW COUNTS												
0	REP	CNAU	CALA	EGGS	ECTO	HARP	OSTR	NEMA	POLY	GAST	ACAR	GEGG	BNAU	AMPH	TUNI	ECHL	BIVIA	SIPH
0	1	112	41	20	5	5	4	4	2	1	2	1	1	1	1	0	1	0
0	2	64	35	2	12	2	3	3	3	2	0	1	1	1	0	0	1	0
0	MEAN	176.0	76.0	22.0	17.0	7.0	7.0	4.0	3.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	0.0
0	SD	67.9	8.5	25.5	9.9	4.2	1.4	0.0	1.4	2.8	0.0	0.0	1.4	1.4	1.4	1.4	1.4	0.0
0	SE	48.0	6.0	18.0	7.0	3.0	1.0	1.0	0.0	2.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0
1																		

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

## CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

0	DATE	4 APR 1984, 1700 HRS PST
0	STATION CR	21
0	SAMPLE AREA	0.50 SQ M , DEPTH 0 CM
0	REP	CVAL CALA HARP BNVAU NEMA POLY EGGS ACAR ECTO AMPH GAST OSTR ISOP FILA BCYP TUNI MEDU
0	1	45 22 8 25 15 8 2 4 2 6 2 3 5 0
0	2	106 19 18 0 9 8 4 5 0 3 2 0 1 0
1		

  

0	REP	CVAL CALA HARP BNVAU NEMA POLY EGGS ACAR ECTO AMPH GAST OSTR ISOP FILA BCYP TUNI MEDU
0	1	90.0 44.0 16.0 50.0 30.0 16.0 4.0 8.0 4.0 12.0 4.0 6.0 10.0 0.0 2.0 0.0 2.0
0	2	212.0 38.0 36.0 0.0 18.0 16.0 8.0 10.0 0.0 6.0 4.0 0.0 2.0 0.0 2.0 0.0
0	MEAN	151.0 41.0 26.0 25.0 16.0 10.0 8.0 7.0 6.0 5.0 5.0 5.0 1.0 1.0 1.0 1.0
0	SD	86.3 4.2 14.1 35.4 8.5 0.0 8.5 0.0 4.2 8.5 1.4 7.1 1.4 1.4 1.4 1.4
0	SE	61.0 3.0 10.0 25.0 6.0 0.0 6.0 0.0 3.0 6.0 1.0 5.0 1.0 1.0 1.0 1.0
1		

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## CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

0	DATE	16 APR 1984, 1410 HRS PST
0	STATION CR	34
0	SAMPLE AREA	0.50 SQ M , DEPTH 0 CM
0	REP	CVAL CALA NEMA BNVAU HARP OSTR EGGS ACAR TUNI ECTO AMPH EGGS POLY ISOP WORM GEIGG BIVIA SIPH
0	1	80 51 22 23 10 7 3 4 5 3 4 0 2 0 1 1 0 1 0
0	2	49 36 39 33 44 18 6 4 3 5 3 0 1 1 0 0 0 0 0
1		

  

0	REP	CVAL CALA NEMA BNVAU HARP OSTR EGGS ACAR TUNI ECTO AMPH EGGS POLY ISOP WORM GEIGG BIVIA SIPH
0	1	160.0 102.0 44.0 46.0 20.0 14.0 6.0 8.0 10.0 6.0 8.0 6.0 4.0 0.0 2.0 0.0 2.0 0.0 0.0
0	2	98.0 72.0 78.0 66.0 88.0 36.0 12.0 8.0 6.0 10.0 6.0 0.0 2.0 0.0 2.0 0.0 0.0 0.0
0	MEAN	129.0 87.0 61.0 56.0 54.0 25.0 9.0 8.0 8.0 7.0 7.0 3.0 3.0 1.0 1.0 1.0 1.0 0.0
0	SD	43.8 21.2 24.0 14.1 48.1 15.6 4.2 0.0 2.8 1.4 4.2 1.4 1.4 1.4 1.4 1.4 1.4 0.0
0	SE	31.0 15.0 17.0 10.0 34.0 11.0 3.0 0.0 2.0 2.0 1.0 3.0 1.0 1.0 1.0 1.0 1.0 0.0

CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; TRANSITION ZONE: MAJOR CATEGORIES

CAMPBELL RIVER FORESHORE STUDY; SLEDD SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES



CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

D) DATE 2 MAY 1984, 1327 HRS PST

STATION CB 21

STATION OR ZONE SAMPLE AREA 0-50 CM : DEPTH 0 CM

## RAW COUNTS

CAMPBELL RIVER FORESHORE STUDY; SLEDD SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

DATE 2 MAY 1984, 1327 HRS PST

STATION CB 31

STATION CR 21 SAMPLE AREA 0 50 50 M DEPTH 0 CM





CAMPFIRE | RIVER FORESHORE STUDY SITE: SAMP F5, TRANSITION ZONE: MAJOR CATEGORIES

DATE 16 MAY 1984, 1430 HRS PST  
STATION CR 34  
SAMPLE AREA 0.50 SQ M , DEPTH 0

		NUMBERS PER 1.00 SQ M																
		CNAU	CALA	HARP	NEMA	EGGS	BNAU	OSTR	TUNI	ECHL	AMPH	POLY	CUMA	ISOP	BIVA	CLAD	GEGG	EUPH
0	REP	1102.0	250.0	348.0	140.0	96.0	92.0	68.0	26.0	2.0	56.0	14.0	18.0	26.0	6.0	12.0	8.0	0.0
0	1	1006.0	232.0	126.0	92.0	48.0	44.0	36.0	70.0	70.0	16.0	32.0	12.0	4.0	20.0	10.0	12.0	16.0
0	2																	
0	MEAN	1054.0	241.0	237.0	116.0	72.0	68.0	52.0	48.0	36.0	36.0	23.0	15.0	15.0	13.0	11.0	10.0	8.0
0	SD	67.9	12.7	157.0	33.9	33.9	22.6	31.1	48.1	28.3	12.7	4.2	15.6	9.9	1.4	2.8	11.3	
0	SE	48.0	9.0	111.0	24.0	24.0	16.0	22.0	34.0	20.0	9.0	3.0	11.0	7.0	1.0	2.0	8.0	
0	REP	CAST	WORM	ACAR	SIPH	MSI	INSE	BCYP	TANA	FILA	MEDU	ECTO	CRZO	PARA	QHAE	TARD	DECA	ROTI
0	1	8.0	4.0	2.0	6.0	2.0	0.0	0.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	2	4.0	8.0	6.0	0.0	0.0	2.0	2.0	0.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
0	MEAN	6.0	6.0	4.0	3.0	1.0	1.0	1.0	1.4	1.4	1.4	1.0	1.0	1.0	0.0	0.0	0.0	0.0
0	SD	2.8	2.8	2.8	4.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0
0	SE	2.0	2.0	2.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0

CAMPBELL RIVER FORESHORE STUDY: SHED SAMPLES; TRANSITION ZONE: MAJOR CATEGORIES

DATE 16 MAY 1984, 1510 HRS PST  
STATION CR 21  
SAMPLE AREA 0.50 SQ M , DEPTH (

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

0 DATE 16 MAY 1984 - 1510 HBS PST

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SALIN CR 21

CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

DATE 16 MAY 1984, 1555 HRS PST

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SISTEMI DI SVILUPPO

SHELL AREA (m²)		SHELL AREA (m²)		SHELL AREA (m²)		SHELL AREA (m²)	
0	0	0	0	0	0	0	0
REP	0	CNAU	CALA	HARP	ECHL	POLY	TUNI
0	1	346	31	23	15	7	11
0	2	559	115	26	25	29	20
0	REP	MEDU	WORM	CHAE	MSI	FILA	SIPH
0	1	0	1	0	0	0	0
0	2	1	0	0	0	0	0





CAMPBELL RIVER FORESHORE STUDY: SEDIMENT SAMPLES: TRANSITION ZONE • MAJOR CATEGORIES

CITRUS RIVER GULF OF MEXICO  
DATE 4 JUN 1984, 1625 HRS PST  
STATION CR 21  
SAMPLE AREA 0-50 SQ M, DEPTH 0

CAMPBELL RIVER FORESHORE STUDY: SEDIMENT SAMPLES: TRANSITION ZONE: MAJOR CATE CORRIES

DATE 5 JUN 1984, 1700 HRS PST  
STATION OR 20

CAMBRIAN FORESHORE STUDY SEDIMENT SAMPLES: TRANSITION ZONE • MAJOR CATEGORIES

DATE 5 JUN 1984, 1700 HRS PST  
STATION CR 20  
SAMPLE AREA 0.50 SQ M , DEPTH 0 CM

CAMBRIE RIVER EBESHOE STUDY SITE SAMPLES: TRANSITION ZONE: MAJOR CAFFOBIES

DATE 19 JUN 1984, 1600 HRS PST  
STATION CR 34

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES  
 DATE 19 JUN 1984, 1600 HRS PST  
 STATION CR 34  
 SAMPLE AREA 0.50 SQ M , DEPTH 0 CM

CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES  
 0 DATE 19 JUN 1984, 1642 HRS PST  
 0 STATION CR 21  
 0 SAMPLE AREA 0.50 SQ M DEPTH 0 CM

0 DATE 19 JUN 1984, 1642 hrs PST  
0 STATION 23 21  
0 CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES  
DATE 19 JUN 1984, 1715 HRS PST  
STATION CB 20

DATE 19 JUN 1984, 1715 HRS PST  
STATION CR 20  
SAMPLE AREA 0.50 SQ M , DEPTH 0 CM

		NUMBERS PER 1.00 SQ M												NUMBERS PER 1.00 SQ M												CNAU				BNAU				HARP				EGGS				NEMA				CALA				TUNI				ECHL				AMPH				BCYP				POLY				GEgg				WORM				GAST				ECTO				OSTR				CLAD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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CAMPBELL RIVER FORE-SHORE STUDY; SLED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

DATE 3 JUL 1984, 1610 HRS PST  
STATION CR 34  
SAMPLE AREA 0.50 SQ M , DEPTH 0 CM

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES  
DATE 3 JUL 1984, 1610 HRS PST  
STATION CR 34  
SAMPLE AREA 0.50 SQ M , DEPTH 0 CM

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CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

CAMBRIAN BIMER FORESHORE STUDY: SEDIMENT SAMPLES: TRANSITION ZONE: MAJOR CATEGORIES

DATE 3 JUL 1984, 1655 HRS PST  
STATION CR 20  
SAMPLE AREA 0.50 SQ M , DEPTH 0

CAMPBELL, R. T. M. B. FORE SHORE STUDY: SSI ED SAMP ES: TRANSITION ZONE: WATER CATCHMENT

DATE 5 JUL 1984, 0725 HRS PST  
STATION OR 21  
SAMPLE AREA 0.50 SQ M, DEPTH 0

CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

DATE 5 JUL 1984, 0725 HRS PST  
STATION CR 21  
SAMPLE AREA 0.50 SQ M , DEPTH 0 CM

CAMPBELL RIVER FORESHORE STUDY: SLED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

DATE 18 JUL 1984, 1525 HRS PST  
STATION OR 21

CAMPBELL RIVER FORESHORE STUDY::SEDIMENT SAMPLES::TRANSITION ZONE::MAJOR CATEGORIES

0 DATE 18 JUL 1984, 1525 HRS PST  
 0 STATION CR 21  
 0 SAMPLE AREA 0.50 SQ M , DEPTH (

CAMPBELL RIVER FORESHORE STUDY: SEDIMENT SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

0 DATE 18 JUL 1984, 1605 HRS PST  
0 STATION CR 20  
0 SAMPLE AREA 0.50 SQ M , DEPTH 0 CM

CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES  
DATE 18 JUL 1984, 1605 HRS PST  
STATION 22 20

0 DATE 18 71 1981 1605 HBS BST

151

STATION CR 20 SAMPLE AREA 0.50 SQ M , DEPTH 0 CM

CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

0 DATE 18 JUL 1984, 1705 HRS PST

34

SAMPLE AREA 0.50 SQ M , DEPTH 0 CM

CAMPBELL RIVER FORESHORE STUDY SEDIMENT SAMPLES TRANSITION ZONE: MARINE CATEGORIES

0 DATE 18 JUL 1984, 1705 HRS PST  
0 STATION CR 34  
0 SAMPLE AREA 0.50 SQ M , DEPTH 0 CM

CAMPBELL RIVER FORESHORE STUDY: SAMPLES: SHED CATEGORIES

0 DATE 31 JUL 1984, 1520 HRS PST  
0 STATION CR 20

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

) DATE 31 7/1981 1530 HRS DST

DATE 31 JUL 1984, 1220 H CST

) STATION CR 20  
)) SAMPLE AREA 0.50 SQ M , DEPTH 0 CM

CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

DATE 31-3-1984 HRS PST

STATION CB 21

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CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES  
DATE 31 JUL 1984, 1550 HRS PST  
STATION CR 21  
SAMPLE AREA 0.50 SQ M , DEPTH 0 CM

CAMPBELL RIVER FORESHORE STUDY; SLID SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES  
DATE 1 AUG 1984, 1710 HRS PST  
STATION CR 34

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES  
DATE 1 AUG 1984, 1710 HRS PST  
STATION 22

0 DATE 1 AUG 1984, 1710 HRS PST  
0 STATION CR 34  
0 SAMPLE AREA 0.50 SQ M , DEPTH 0 CM

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

DATE 14 AUG 1984, STATION CR 21 SAMPLE AREA 0.50 SQ M , DEPTH

CAMPBELL RIVER FORESHORE STUDY: SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

0 DATE 14 A/F 1984 1325 HRS PST

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CAMPBELL, BRYAN FORESHORE STUDY SEDIMENT TRANSITION ZONE: MAJOR CATE CORRIES

DATE 1/10/1984

1984, 1632 HK\$ 551

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## CAMPBELL RIVER FORESHORE STUDY: SEDIMENT SAMPLES: TRANSITION ZONE: MAJOR CATEGORIES

DATE 14 AUG 1984, 1635 HRS PST  
STATION CR 20  
SAMPLE AREA 0 50 90 M DEPTH



CAMEREE | RIVER FORESHORE STATIONES SAMPLING ZONE: MAJOR CATEGORIES

0 DATE 28 AUG 1984 1415 HRS BST

STATION CB 31

STATION 34 SAMPLE AREA 0.50 SQ M , DEPTH 0 CM

CAMPBELL RIVER FORESHORE STUDY: SEDIMENT SAMPLES; TRANSITION ZONE: MAJOR CATEGORIES

DATE 29 AUG 1984 0805 HBS PST

BRIEFS, NOTES, & CRITICS 31

SAMPLE AREA 0.50 SQ M , DEPTH 0 CM

CAMPBELL RIVER FORESHORE SITE INDEX SAMPLES: TRANSITION ZONE: MAJOR CATEGORIES

DATE 29 AUG 1984, 0805 HRS PST  
STATION CR 21  
SAMPLE AREA 0.50 SQ M , DEPTH 0 CM

CAMPBELL RIVER FORESHORE STUDY : SHED SAMPLES: TRANSITION ZONE : MAJOR CATEGORIES

0 DATE 30 AUG 1984, 1040 HRS PST  
0 STATION CR 20

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES  
DATE 30 AUG 1984, 1040 HRS PST  
STATION 22

## CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

CAMBELL RIVER FORESHORE STUDY SITE: TRANSITION ZONE: MAJOR CATEGORIES

DATE 11 SEP 1984, 1303 HRS PST  
STATION CR 21  
SAMPLE AREA 0.50 SQ M : DEPTH 0 CM



CAMPBELL RIVER FORESHORE STUDY: SED. SAMPLES; TRANSITION ZONE: MAJOR CATEGORIES

DATE 26 SEP 1984; 1035 HRS PST

STATION 03 20

SAMPLE AREA 0.50 SQ M , DEPTH 0 CM

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

0	DATE 26 SEP 1984, 1100 HRS PST	0	STATION CR 21	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM	RAW COUNTS										NUMBERS PER 1.00 SQ M									
0	REP	AMPH	HARP	NEMA	CALA	CNAU	BNAU	EGG	ECTO	EGGS	WORM	POLY	CUMA	MEDU	ECHL	OSTR	ACAR	SIPH							
0	1	30	60	54	19	16	5	3	6	1	2	3	2	1	0	0	0	0							
0	2	332	175	122	24	20	7	6	2	6	3	1	0	1	1	1	1	0							
0	REP	AMPH	HARP	NEMA	CALA	CNAU	BNAU	EGG	ECTO	EGGS	WORM	POLY	CUMA	MEDU	ECHL	OSTR	ACAR	SIPH							
0	1	60.0	120.0	108.0	38.0	32.0	10.0	6.0	12.0	2.0	4.0	6.0	4.0	2.0	0.0	0.0	0.0	0.0							
0	2	664.0	350.0	244.0	48.0	40.0	14.0	12.0	4.0	12.0	6.0	2.0	0.0	2.0	2.0	2.0	2.0	0.0							
0	MEAN	362.0	235.0	176.0	43.0	36.0	12.0	9.0	8.0	7.0	5.0	4.0	2.0	2.0	1.0	1.0	1.0	0.0							
0	SD	427.1	162.6	96.2	7.1	5.7	2.8	4.2	5.7	7.1	1.4	2.8	2.8	0.0	1.4	1.4	1.4	0.0							
0	SE	302.0	115.0	68.0	5.0	4.0	2.0	3.0	4.0	1.0	1.0	2.0	2.0	0.0	1.0	1.0	1.0	0.0							
1																									

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

0	DATE 26 SEP 1984, 1205 HRS PST	0	STATION CR 34	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM	RAW COUNTS										NUMBERS PER 1.00 SQ M									
0	REP	NEMA	HARP	EGG	CNAU	CALA	POLY	EGGS	BNAU	WORM	CUMA	OSTR	AMPH	ECTO	ACAR	BCMP	ECHL	CLAD							
0	1	146	52	40	20	11	10	9	8	1	4	3	2	2	1	1	0	0							
0	2	92	37	21	11	4	5	0	1	7	4	5	2	1	0	0	0	0							
0	REP	NEMA	HARP	EGG	CNAU	CALA	POLY	EGGS	BNAU	WORM	CUMA	OSTR	AMPH	ECTO	ACAR	BCMP	ECHL	CLAD							
0	1	292.0	104.0	80.0	40.0	22.0	20.0	18.0	16.0	2.0	8.0	6.0	4.0	4.0	2.0	2.0	0.0	0.0							
0	2	184.0	74.0	42.0	22.0	8.0	10.0	0.0	2.0	14.0	8.0	10.0	4.0	2.0	0.0	0.0	0.0	0.0							
0	MEAN	238.0	89.0	61.0	31.0	15.0	15.0	9.0	9.0	8.0	8.0	4.0	3.0	3.0	1.0	1.0	0.0	0.0							
0	SD	76.4	21.2	26.9	12.7	9.9	7.1	12.7	9.9	8.5	0.0	2.8	0.0	1.4	1.4	1.4	0.0	0.0							
0	SE	54.0	15.0	19.0	9.0	7.0	5.0	9.0	7.0	6.0	0.0	2.0	1.0	1.0	1.0	1.0	0.0	0.0							
1																									

Table 10. Major epifauna categories. Transition zone. Numbers  $m^{-2}$  for each station and for all stations combined.

MEIOTAB2: CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES

0	34. METOFAUNA CATEGORIES:
0	CODE IDENTIFICATION
0	HARP = HARPACTOID COPEPODS
0	CNAU = COPEPOD NAUPLII
0	NEVA = NEWTONODES
0	CALA = CALANOID COPEPODS
0	WORM = WORMS
0	OSTR = OSTRACODS
0	ACAR = ACARINANS
0	EGGS = UNIDENTIFIED EGGS
0	TUNI = TUNICLES
0	AMPH = AMPHIPODS
0	GAST = GASTROPODS
0	ECTO = ECTOPROCTS
0	ENAU = BARNACLE NAUPLII
0	CRZO = CRAB ZOEA
0	BCYP = BARNACLE CYPRIS
0	CEGG = CASTROPOD EGGS
0	MYSI = MYSIDS
0	CLAD = CLADOCERANS
0	ISOP = ISOPPODS
0	INSE = INSECTS
0	BIVA = BIVALVES
0	CHAE = CHAETOGNATHS
0	EUPH = EUPHAUSIIDS
0	CUMA = CUMACEANS
0	TANA = TANAIDACEANS
0	MEDU = MEDUSAE
0	PARA = PARASITIC COPEPODS
0	POLY = POLYCHAETES
0	ECHL = ECHINODERM LARVAE
0	SIPH = SIPHONOPHORES
0	FILA = FISH LARVAE
0	ROTI = ROTIFIERS
0	DECA = DECAPODS
0	TARD = TARDIGRADES

CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES  
NUMBERS PER 1.00 SQ M AVERAGED OVER ALL SAMPLES FOR STATION 20  
N= 34

1 CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES  
 0 NUMBERS PER 1.00 SQ M AVERAGED OVER ALL SAMPLES FOR STATION 21  
 0 N= 30

	STAT	QNAU	HARP	CALA	AMPH	NEMA	EGGS	POLY	BNAU	GEGG	BCP	ECHL	GAST	TUNI	WORM	BIVA	OSTR
0	MEAN	564.7	440.6	201.9	100.6	69.1	60.5	59.9	59.2	47.5	24.9	18.4	18.1	15.7	14.4	8.2	5.8
0	SD	621.4	358.9	487.6	161.7	52.4	63.9	121.8	58.4	61.3	59.0	58.2	30.0	19.6	11.3	22.3	8.0
0	SE	113.5	65.5	89.0	29.5	9.6	11.7	22.2	10.7	11.2	10.8	10.6	5.5	3.6	2.1	4.1	1.5
0	V/MEAN	683.8	292.4	1177.8	259.9	39.7	67.4	247.7	57.5	79.2	139.5	183.9	49.7	24.3	25.0	15.7	11.0
0	S/MEAN	1.1	0.8	2.4	1.6	0.8	1.1	2.0	1.0	1.3	2.4	3.2	1.7	1.2	1.4	3.0	1.4
0	S/MMM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.4	0.2

1 CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; TRANSITION ZONE; MAJOR CATEGORIES  
 0 NUMBERS PER 1.00 SQ M AVERAGED OVER ALL SAMPLES FOR STATION ALL  
 0 N= 92

	STAT	QNAU	HARP	NEMA	CALA	AMPH	BNAU	EGGS	POLY	GEGG	BCP	TUNI	OSTR	CHAE	PARA	FILA	SIPH
0	MEAN	398.1	310.1	147.9	126.1	120.3	79.3	52.9	37.4	28.7	15.7	15.2	12.7	10.4	9.7	8.0	7.2
0	SD	466.1	402.9	355.2	292.5	420.4	150.1	98.5	53.9	73.4	27.2	27.4	38.4	13.7	35.1	12.7	27.2
0	SE	48.6	42.0	37.0	30.5	43.8	15.6	10.3	5.6	7.7	2.8	2.9	4.0	1.4	3.7	1.3	2.8
0	V/MEAN	545.7	523.5	853.1	678.4	1469.1	284.1	183.4	77.6	187.5	47.2	49.3	116.2	18.0	126.9	43.5	102.1
0	S/MEAN	1.2	1.3	2.4	2.3	3.5	1.9	1.9	1.4	2.6	1.7	1.8	3.0	1.3	3.6	2.3	3.8
0	S/MMM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.1	0.4	0.3	0.5
0	STAT	ACAR	BIVA	CLAD	MEDU	ISOP	MYSI	EUPH	DECA	SIPH	TANA	INSE	CHAE	PARA	ROTI	TARD	CRZO
0	MEAN	5.1	4.3	1.7	1.6	1.4	0.5	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0
0	SD	10.5	13.6	10.0	4.3	3.8	4.8	2.0	0.7	0.8	0.6	0.6	0.3	0.3	0.3	0.2	0.2
0	SE	1.1	1.4	1.0	0.4	0.4	0.5	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
0	V/MEAN	21.6	43.4	24.4	10.5	9.2	15.8	8.5	2.1	4.2	2.4	2.4	2.0	2.0	2.0	2.0	2.0
0	S/MEAN	2.1	3.2	2.4	2.5	3.3	4.3	3.0	5.2	4.0	4.0	6.7	6.7	6.7	6.7	6.7	9.6
0	S/MMM	0.4	0.7	0.6	1.4	1.5	2.3	9.4	12.5	34.4	26.3	26.3	155.1	155.1	155.1	155.1	141.2

Table 11. Major epifauna categories. Marine zone. Raw counts and numbers  
 $\text{m}^{-2}$ .

MEIOFAUNA: CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; MARINE ZONE; MAJOR CATEGORIES

O	MEIOFAUNA CATEGORIES	CODE IDENTIFICATION
O	HARP = HARPACTICOID COPEPODS	
O	NAU = COPEPOD NAUPLII	
O	NEMA = NEMATODES	
O	CALA = CALANOID COPEPODS	
O	WORM = WORMS	
O	OSTR = OSTRACODS	
O	ACAR = ACARINANS	
O	EGGS = UNIDENTIFIED EGGS	
O	TUNI = TUNICLES	
O	AMPH = AMPHIPODS	
O	GAST = GASTROPODS	
O	ECTO = ECTOPROCTS	
O	BNAU = BARNACLE NAUPLII	
O	CRZO = CRAB ZOEA	
O	BCYP = BARNACLE CYPRIS	
O	GEGG = GASTROPOD EGGS	
O	MYST = MYSTIDS	
O	CLAD = CLADOCERANS	
O	ISOP = ISOPODS	
O	INSE = INSECTS	
O	BTVA = BIVALVES	
O	CHAE = CHAETOGNATHS	
O	EUPH = EUHAUSTIDS	
O	CUMA = CUMACEANS	
O	TANA = TANAIDACEANS	
O	MEDU = MEDUSAE	
O	PARA = PARASITIC COPEPODS	
O	POLY = POLYCHAETES	
O	EQHL = ECHINODERM LARVAE	
O	SIPH = SIPHONOPHORES	
O	FILA = FISH LARVAE	
O	ROTI = ROTIFERS	
O	DECA = DECAPODS	
O	TARD = TARDIGRADES	

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; MARINE ZONE; MAJOR CATEGORIES

0	DATE 10 JAN 1984, 1249 HRS PST	0	STATION CR 27	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM														
0	REP	CALA	CNAU	EGGS	HARP	ECTO	TUNI	MEDU	POLY	WORM	AMPH	OSTR	GAST	ECHL	CHAE	SIPIH	TARD	FILA	
0	1	16	9	8	2	2	0	1	0	1	1	0	1	0	0	0	0	0	0
0	2	9	13	3	4	2	1	0	0	0	0	1	1	0	0	0	0	0	0
0	REP	CALA	CNAU	EGGS	HARP	ECTO	TUNI	MEDU	POLY	WORM	AMPH	OSTR	GAST	ECHL	CHAE	SIPIH	TARD	FILA	
0	1	32.0	18.0	16.0	4.0	4.0	0.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	2	18.0	26.0	6.0	8.0	4.0	2.0	0.0	0.0	0.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
0	MEAN	25.0	22.0	11.0	6.0	4.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
0	SD	9.9	5.7	7.1	2.8	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
0	SE	7.0	4.0	5.0	2.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
1																			

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; MARINE ZONE; MAJOR CATEGORIES

0	REP	CALA	CNAU	EGGS	HARP	ECTO	TUNI	MEDU	POLY	WORM	AMPH	OSTR	GAST	ECHL	CHAE	SIPIH	POLY	BIVIA		
0	1	85	42	13	15	13	6	4	2	3	1	0	2	1	0	0	0	0	0	
0	2	66	47	8	4	1	4	3	1	0	0	0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	
0	REP	CALA	CNAU	EGGS	HARP	ECTO	TUNI	MEDU	POLY	WORM	AMPH	OSTR	GAST	ECHL	CHAE	SIPIH	POLY	BIVIA		
0	1	170.0	84.0	30.0	26.0	12.0	8.0	4.0	6.0	4.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0	2	132.0	94.0	16.0	8.0	2.0	8.0	6.0	2.0	0.0	0.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	
0	MEAN	151.0	89.0	21.0	19.0	14.0	10.0	7.0	3.0	3.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	
0	SD	26.9	7.1	7.1	15.6	17.0	2.8	1.4	4.2	2.8	0.0	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
0	SE	19.0	5.0	5.0	11.0	12.0	2.0	1.0	3.0	2.0	0.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; MARINE ZONE; MAJOR CATEGORIES

DATE 7 MAR 1984 1603 HBS PST

STATION NO. 27

SECTION C 21

0 SAMPLE AREA 0.50 SQ M ; DEPTH 0 CM

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CLINICAL

REF	UNAO	CALA	HARP	LNU	ECCS	NEMA	ENAU	ECIO	AMH	BIMA	ECHL	DEMA	ACAR	65R	ISOP	EUPH
1	41	30	8	5	7	2	4	2	4	3	0	1	1	1	0	1
2	43	26	21	7	4	7	3	4	1	2	1	0	0	0	1	0

	REP	CNAU	CALA	HARP	TUNI	EGGS	NEWA	BNAU	ECTO	AMPH	BTVA	ECHL	CUMA	ACAR	DECA	OSTR	ISOP	EUPH
1	82.0	60.0	16.0	10.0	14.0	4.0	8.0	4.0	8.0	6.0	0.0	2.0	2.0	2.0	2.0	0.0	2.0	
2	86.0	52.0	42.0	14.0	8.0	14.0	6.0	8.0	2.0	4.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	
MEAN	84.0	56.0	29.0	12.0	11.0	9.0	7.0	6.0	5.0	5.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
SD	2.8	5.7	18.4	2.8	4.2	7.1	1.4	2.8	4.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	
SE	2.0	4.0	13.0	2.0	3.0	5.0	1.0	2.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	

CAMPBELL RIVER FORESHORE STUDY: SEDIMENT SAMPLES: MARINE ZONE: MASTOB CATEGORIES

DATE 31 MAR 1981 13/5 HPS DST

DATE 21 MAR 198

0 STATION CR 27



CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; MARINE ZONE; MAJOR CATEGORIES

0	DATE	3 APR 1984, 1645 HRS PST
0	STATION CR	27
0	SAMPLE AREA	0.50 SQ M , DEPTH 0 CM
0	REP	EGGS CALA OVAU BCYP BNAY GECC ECTO HARP POLY NEMA AMPH EUPH ACAR GAST WORM CUMA BIVIA
0	1	134 56 37 22 12 14 9 3 2 2 1 0 1 0 0 0
0	2	1442 86 98 25 34 10 8 9 4 2 0 0 1 1 0 0
0	REP	EGGS CALA OVAU BCYP BNAY GECC ECTO HARP POLY NEMA AMPH EUPH ACAR GAST WORM CUMA BIVIA
0	1	268.0 112.0 74.0 44.0 24.0 28.0 18.0 6.0 4.0 4.0 2.0 0.0 2.0 0.0 0.0 0.0
0	2	2884.0 172.0 196.0 50.0 68.0 20.0 16.0 8.0 4.0 0.0 2.0 0.0 2.0 0.0 0.0 0.0
0	MEAN	1576.0 142.0 135.0 47.0 46.0 24.0 17.0 12.0 6.0 4.0 1.0 1.0 1.0 1.0 0.0 0.0
0	SD	1849.8 42.4 86.3 4.2 31.1 5.7 1.4 8.5 2.8 0.0 1.4 1.4 1.4 1.4 0.0 0.0
0	SE	1308.0 30.0 61.0 3.0 22.0 4.0 1.0 6.0 2.0 0.0 1.0 1.0 1.0 1.0 0.0 0.0
1		

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; MARINE ZONE; MAJOR CATEGORIES

0	DATE	4 APR 1984, 0945 HRS PST
0	STATION CR	31
0	SAMPLE AREA	0.50 SQ M , DEPTH 0 CM
0	REP	HARP OSTR OVAU ECTO NEMA CALA AMPH BNAY POLY CAST EGGS CUMA BIVIA TANA CEGG TUNI
0	1	900 201 107 86 86 46 51 56 25 12 17 13 9 9 4 2
0	2	430 95 44 42 28 40 26 21 17 17 2 3 2 5 4 7 3
0	REP	ECHL BCYP SIPH DECA CLAD CRZO CHAE MEDU PARA EUPH ACAR FILA INSE ISOP TARD MYSI ROTI
0	1	3 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0
0	2	1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0

CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; MARINE ZONE; MAJOR CATEGORIES  
0 DATE 4 APR 1984, 0945 HRS PST  
0 STATION CR 31

CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; MARINE ZONE; MAJOR CATEGORIES  
DATE 17 APR 1984, 0850 HRS PST  
STATION OR 31



CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; MARINE ZONE; MAJOR CATEGORIES

0	DATE	17 APR 1984, 1330 HRS PST																
0	STATION CR	27																
0	SAMPLE AREA	0.50 SQ M , DEPTH 0 CM																
RAW COUNTS																		
0	REP	HARP	CNAU	CALA	EGGS	ECTO	CAST	BNAU	AMPH	POLY	NEMA	TUNI	GEGG	BCYP	DECA	WORM	CLAD	ACAR
0	1	364	115	30	31	32	13	32	32	9	12	5	3	3	0	2	0	0
0	2	325	244	92	35	34	37	15	11	27	10	1	2	2	5	2	1	1
0	REP	HARP	CNAU	CALA	EGGS	ECTO	CAST	BNAU	AMPH	POLY	NEMA	TUNI	GEGG	BCYP	DECA	WORM	CLAD	ACAR
0	1	728.0	230.0	60.0	62.0	64.0	26.0	64.0	64.0	18.0	24.0	10.0	6.0	6.0	0.0	4.0	0.0	0.0
0	2	650.0	488.0	184.0	70.0	68.0	74.0	30.0	22.0	54.0	20.0	2.0	4.0	4.0	10.0	4.0	2.0	2.0
0	MEAN	689.0	359.0	122.0	66.0	66.0	50.0	47.0	43.0	36.0	22.0	6.0	5.0	5.0	4.0	1.0	1.0	1.0
0	SD	55.2	182.4	87.7	5.7	2.8	33.9	24.0	29.7	25.5	2.8	5.7	1.4	7.1	0.0	1.4	1.4	1.4
0	SE	39.0	129.0	62.0	4.0	2.0	24.0	17.0	21.0	18.0	2.0	4.0	1.0	5.0	0.0	1.0	1.0	1.0
1																		

CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; MARINE ZONE; MAJOR CATEGORIES

0	DATE	2 MAY 1984, 0816 HRS PST																
0	STATION CR	31																
0	SAMPLE AREA	0.50 SQ M , DEPTH 0 CM																
RAW COUNTS																		
0	REP	HARP	BNAU	AMPH	CNAU	EGGS	CALA	OSTR	GEGG	ECTO	POLY	NEMA	WORM	GAST	TUNI	CUMA	ECHL	BTVA
0	1	4122	2815	428	198	283	37	56	26	16	26	19	9	2	5	5	0	3
0	2	3756	1000	168	188	48	32	12	20	28	0	4	8	12	0	0	4	0
0	REP	MEDU	MSSI	CHAE	CRZO	SIPH	BCYP	CLAD	TANA	PARA	EUPH	ACAR	FILA	INSE	ISOP	TARD	DECA	ROTI
0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CAMPBELL RIVER FORESHORE STUDY SEDIMENT SAMPLES: MAJOR CATEGORIES

0 DATE 2 MAY 1984- 0816 HBS PST

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SAMPLE AREA 0.50 SQ M, DEPTH 0 CM

CAMPBELL RIVER FORESHORE STUDY :: SHED SAMPLES :: MAJOR CATEGORIES

0 DATE 2 MAY 1994 1203 HBS PST

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SAMPLE AREA 0.50 SQ M ; DEPTH 0 CM

CAMPBELL RIVER FORESHORE SITE: S1 ED: SAMPLES: MARINE ZONE: MATOR CATEGORIES:

0 DATE 2 MAY 1984 1203 HBS PST

27

SAMPLE AREA 0.50 SQ M • DEPTH 0 CM

CAMPBELL RIVER FORESHORE STUDY SITE SAMPLES: MARINE ZONE: MAJOR CATEGORIES

DATE 16 MAY 1998/ 0805 HRS DST

1984, 0800 CET

STATION CR 31 SAMPLE AREA 0 50 50 M DEPTH 0 CM

CAMPBELL RIVER FORESHORE STUDY SAMPLES: MARINE ZONE: MAJOR CATEGORIES

0 DATE 16 MAY 1984, 0805 HRS PST  
0 STATION CR 31  
0 SAMPLE AREA 0.50 SQ M , DEPTH 0 CM

## CAMPBELL RIVER FORESHORE STUDY : SLEED SAMPLES : MARINE ZONE : MAJOR CATEGORIES

0 DATE 16 MAY 1984, 1250 HRS PST  
0 STATION QR 27  
0 SAMPLE AREA 0.50 SQ M , DEPTH 0 CM

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; MARINE ZONE; MAJOR CATEGORIES

DATE 16 MAY 1984, 1250 HRS PST  
STATION CR 27  
SAMPLE AREA 0.50 SQ M , DEPTH C

## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; MARINE ZONE; MAJOR CATEGORIES

0	DATE	5 JUN 1984, 0820 HRS PST
0	STATION CR	31
0	SAMPLE AREA	0.50 SQ M , DEPTH 0 CM
0	REP	GEGG CNAU CALA HARP NEMA EGGS ACAR CLAD ECTO OSIR BNAL POLY TUNI CUMA BCYP ECHL TANA
0	1	191 116 24 12 11 6 4 8 2 3 0 0 2 1 0 0
0	2	348 187 55 38 17 11 7 0 6 4 3 1 0 1 0 0
0	REP	GEGG CNAU CALA HARP NEMA EGGS ACAR CLAD ECTO OSIR BNAL POLY TUNI CUMA BCYP ECHL TANA
0	1	382.0 232.0 48.0 24.0 22.0 12.0 8.0 16.0 4.0 6.0 0.0 0.0 4.0 2.0 0.0 0.0 0.0
0	2	696.0 374.0 110.0 76.0 34.0 22.0 14.0 0.0 12.0 8.0 8.0 6.0 2.0 0.0 2.0 0.0 0.0
0	MEAN	539.0 303.0 79.0 50.0 28.0 17.0 11.0 8.0 7.0 4.0 3.0 1.0 1.0 0.0 0.0 0.0
0	SD	222.0 100.4 43.8 36.8 8.5 7.1 4.2 11.3 5.7 1.4 4.2 1.4 1.4 0.0 0.0 0.0
0	SE	157.0 71.0 31.0 26.0 6.0 5.0 3.0 8.0 4.0 1.0 4.0 1.0 1.0 0.0 0.0 0.0
1		

## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; MARINE ZONE; MAJOR CATEGORIES

0	DATE	5 JUN 1984, 1455 HRS PST
0	STATION CR	27
0	SAMPLE AREA	0.50 SQ M , DEPTH 0 CM
0	REP	CNAU CALA HARP EGGS TUNI BNAL NEMA AMPH BCYP ECTO WORM GEGG POLY ACAR GAST OSTR DECA
0	1	207 99 48 80 36 29 41 10 15 1 18 0 1 1 2 0
0	2	1063 695 534 234 121 91 71 82 44 30 34 13 12 3 3 1 3
0	REP	CLAD ECHL SIPH CRZO FILA PARA MEDU TANA CUMA EUPH CHAE BIVA INSE ISOP TARD MYSI ROTI
0	1	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0	2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; MARINE ZONE; MAJOR CATEGORIES

0 DATE 5 JUN 1984, 1455 HRS PST  
0 STATION CR 27  
0 SAMPLE AREA 0.50 SQ M , DEPTH 0 CM

CAMPBELL RIVER FORESHORE STUDY; SLID SAMPLES; MARINE ZONE; MAJOR CATEGORIES

0 DATE 19 JUN 1984, 0840 HRS PST  
0 STATION CR 31  
0 SAMPLE AREA 0.50 SQ M , DEPTH 0 CM



CAMPBELL RIVER FORESHORE STONY:SED SAMPLES: MARINE ZONE:MAJOR CATEGORIES

0 DATE 20 JN 1984 1530 HBS PST

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STATION CR 2 / SAMPLE AREA 0.50 SQ M , DEPTH 0 CM

CAMPBELL RIVER FORE SHORE STUDY :: SLED SAMPLES :: MARINE ZONE :: MAJOR CATEGORIES

DATE 4 JUL 1984, 1000 HRS PST

31

SAMPLE AREA 0.50 SQ M , DEPTH 0 CM

CAMPBELL RIVER FORESHORE STUDY: SAMPLES: MARINE ZONE: MAJOR CATEGORIES

DATE 4/11/1984 - 1000 HRS PST

STATION CB 31

SAMPLE AREA 0 50 50 M - DEPTH 0 CM

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CAMPBELL RIVER FORE SHORE STUDY SLEDS SAMPLES; MARINE ZONE; MAJOR CATEGORIES

0 DATE 4 JULY 1984: 1510 HRS PST

STATION OR 27

0 SAMPLE AREA 0-50 SO M - DEPTH 0 CM

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REPLACES DRAFT OF 10/10/00

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CAMPBELL RIVER FORESHORE STUDY; SFD SAMPLES; MARINE ZONE; MAJOR CATEGORIES

DATE 4 JUL 1984, 1510 HRS PST  
STATION OR 27  
SAMPLE AREA 0.50 SQ M , DEPTH 0 CM

## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; MARINE ZONE; MAJOR CATEGORIES

DATE 18 JUL 1984, 0910 HRS PST  
STATION CR 31

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; MARINE ZONE; MAJOR CATEGORIES

0 DATE 18 JUL 1984, 0910 HRS PST

STATION OR 31 ,  
SAMPLE AREA 0.50 SQ M , DEPTH 0 CM

REFERENCES

CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; MARINE ZONE; MAJOR CATEGORIES

DATE 18 JUL 1984, 1310 HRS PST

STATION CR 27

SAMPLE AREA 0-50-50 M - DEPTH 0 CM

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DIDD HADD NEMA TINT AND EGGS WOOD CINI ENVI CUNI 3 CANA

CAMPBELL RIVER FORESHORE STUDY: SED SAMPLES: MARINE ZONE: MAJOR CATEGORIES

DATE 1 AUG 1984 0930 HRS PST

STATION CB 31

STATION 31 SAMPLE AREA 0 E0 E0 M DEPTH 0 CM

SAMPLE AREA	0.30 SQ M , DEPTH 0 CM						RAW COUNTS		EGGS
REP	HARP	GEGG	BIVAU	CUMA	CNAU	NEMA	CALA	OSTR	





CAMPBELL RIVER FORESHORE STONY SED SAMP FS MARINE ZONE MAJOR CATEGORIES

0 DATE 15 AUG 1984, 0835 HRS PST  
0 STATION CR 31  
0 SAMPLE AREA 0.50 SQ M , DEPTH 0 CM

CAMPBELL RIVER FORESHORE STUDY::SEDIMENT SAMPLES:WATERSHED CATEGORIES

DATE 15 AUG 1984, 1250 HRS PST

STATION CB 27

SAMPLE AREA 0 50 50 M DEPTH 0 CM

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RAW COUNTS AND WORKLOADS

	REP	REG	CAL	CNAU	HAR	NMA	BNAU	AMPH	WOM	ECU	EUS	BVA	GSI	PULY	ECH	MDU	DSR	EU-H	EU-L
1	358	105	41	59	32	16	13	7	6	4	5	5	3	1	0	0	0	1	1
2	134	118	83	39	15	11	2	3	2	3	1	1	2	0	1	1	0	1	1

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CAMPBELL RIVER FORESHORE STUDY: SAMPLES: MARINE ZONE: MAJOR CATEGORIES

DATE 29 AUG 1984 0845 HRS PST

STATION CB 27

STATION OR ZONE

RAW COUNTS  
BIVIA ECTO EG

## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; MARINE ZONE; MAJOR CATEGORIES

0	DATE 29 AUG 1984, 1040 HRS PST	0	STATION CR 31	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM	RAW COUNTS										NUMBERS PER 1.00 SQ M									
0	0	0	0	0	0	HARP	BNAU	AMPH	CALA	CNAU	EGGS	ECTO	GAST	POLY	GEGG	ECHL	ACAR	CUMA	TANA	NEMA	BIVA	CLAD			
0	0	1	4360	1168	88	112	96	8	80	36	80	8	8	16	0	0	0	0	0	0	0				
0	0	2	6532	520	132	24	36	80	12	8	0	0	0	16	0	8	0	4	4	0	0				
0	0	REP	REP	1	8720.0	2336.0	176.0	224.0	192.0	16.0	16.0	16.0	16.0	32.0	32.0	0.0	0.0	0.0	0.0	0.0	0.0				
0	0	2	13064.0	1040.0	264.0	48.0	72.0	160.0	24.0	16.0	0.0	0.0	0.0	16.0	16.0	8.0	8.0	8.0	8.0	0.0	0.0				
0	0	MEAN	10892.0	1688.0	220.0	136.0	132.0	88.0	20.0	16.0	16.0	16.0	16.0	22.6	22.6	11.3	11.3	5.7	5.7	0.0	0.0				
0	0	SD	3071.7	916.4	62.2	124.5	84.9	101.8	5.7	0.0	22.6	22.6	22.6	22.6	11.3	11.3	5.7	5.7	0.0	0.0	0.0	0.0			
0	0	SE	2172.0	648.0	44.0	88.0	60.0	72.0	4.0	0.0	16.0	16.0	16.0	16.0	8.0	8.0	4.0	4.0	4.0	4.0	0.0	0.0			
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## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; MARINE ZONE; MAJOR CATEGORIES

0	DATE 11 SEP 1984, 1324 HRS PST	0	STATION CR 27	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM	RAW COUNTS										NUMBERS PER 1.00 SQ M									
0	0	0	0	0	0	HARP	CNAU	CALA	AMPH	BNAU	EGGS	GEGG	GAST	ECTO	WORM	POLY	OSTR	BCYP	CUMA	DECA	NEMA	BIVA			
0	0	1	201	216	212	35	10	12	2	4	13	2	4	1	1	3	1	1	1	1	1	0	0		
0	0	2	473	122	98	28	8	4	4	13	2	3	3	3	0	0	1	0	0	0	0	0	1		
0	0	REP	REP	1	402.0	432.0	424.0	70.0	20.0	24.0	4.0	8.0	2.0	2.0	6.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0		
0	0	2	946.0	244.0	196.0	56.0	16.0	8.0	26.0	4.0	6.0	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0		
0	0	MEAN	674.0	338.0	310.0	63.0	18.0	16.0	15.0	6.0	4.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
0	0	SD	384.7	132.9	161.2	9.9	2.8	11.3	15.6	2.8	2.8	2.8	2.8	4.2	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4		
0	0	SE	272.0	94.0	114.0	7.0	2.0	8.0	11.0	2.0	2.0	2.0	2.0	3.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
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## CAMPBELL RIVER FORESHORE STUDY; SED SAMPLES; MARINE ZONE; MAJOR CATEGORIES

0	DATE 26 SEP 1984, 1220 HRS PST	0	STATION CR 27	0	SAMPLE AREA 0.50 SQ M , DEPTH 0 CM	RAW COUNTS												
0	REP	HARP	BNAU	AMPH	QNAU	NEMA	CALA	EGLS	GEGG	ECTO	WORM	CUMA	POLY	ACAR	BIVA	GAST	SIPH	CLAD
0	1	979	814	48	103	59	59	9	3	6	1	0	2	0	1	1	0	0
0	2	407	134	122	36	64	63	49	10	5	3	3	1	1	0	0	0	0
0	REP	HARP	BNAU	AMPH	QNAU	NEMA	CALA	EGLS	GEGG	ECTO	WORM	CUMA	POLY	ACAR	BIVA	GAST	SIPH	CLAD
0	1	1958.0	1628.0	96.0	206.0	118.0	118.0	18.0	6.0	12.0	2.0	0.0	4.0	0.0	2.0	2.0	0.0	0.0
0	2	814.0	268.0	244.0	72.0	128.0	126.0	98.0	20.0	10.0	6.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0
0	MEAN	1386.0	948.0	170.0	139.0	123.0	122.0	58.0	13.0	11.0	4.0	3.0	3.0	1.0	1.0	1.0	0.0	0.0
0	SD	808.9	961.7	104.7	94.8	7.1	5.7	56.6	9.9	1.4	2.8	4.2	1.4	1.4	1.4	0.0	0.0	0.0
0	SE	572.0	680.0	74.0	67.0	5.0	4.0	40.0	7.0	1.0	2.0	3.0	1.0	1.0	1.0	1.0	0.0	0.0

Table 12. Major epifauna categories. Marine zone. Numbers  $m^{-2}$  for each station and for all stations combined.

<sup>1</sup>MEIOTAB2: CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; MARINE ZONE; MAJOR CATEGORIES

0	34	MEIOFAUNA CATEGORIES:
0	CODE	IDENTIFICATION
---	---	---
0	0	HARP = HARPACTICOID COPEPODS
0	0	CNAU = COPEPOD NAUPLII
0	0	NEMA = NEMATODES
0	0	CALA = CALANOID COPEPODS
0	0	WORM = WORMS
0	0	OSTR = OSTRACODS
0	0	ACAR = ACARINANS
0	0	ECCS = UNIDENTIFIED EGGS
0	0	TUNI = TUNICLES
0	0	AMPH = AMPHIPODS
0	0	CAST = GASTROPODS
0	0	ECTO = ECTOPROCTS
0	0	BNAU = BARNACLE NAUPLII
0	0	CRZO = CRAB ZOEA
0	0	BCYP = BARNACLE CYPRIS
0	0	GEOG = GASTROPOD EGGS
0	0	MYSI = MYSIDS
0	0	CLAD = CLADOCERANS
0	0	ISOP = ISOPPODS
0	0	INSE = INSECTS
0	0	BITVA = BIVALVES
0	0	CHAE = CHAETOGNATHS
0	0	EUPH = EUPHAUSIIDS
0	0	CUMA = CUMACEANS
0	0	TANA = TANIDLAEANS
0	0	MEDU = MEDUSAE
0	0	PARA = PARASITIC COPEPODS
0	0	POLY = POLYCHAETES
0	0	ECHL = ECHINODERM LARVAE
0	0	SIPH = SIPHONOPHORES
0	0	FILA = FISH LARVAE
0	0	ROTI = ROTIFERS
0	0	DECA = DECAPODS
0	0	TARD = TARDIGRADES

1 CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; MARINE ZONE; MAJOR CATEGORIES  
 0 NUMBERS PER 1.00 SQ M AVERAGED OVER ALL SAMPLES FOR STATION 27  
 0 N° 34

0	STAT	CNAU	HARP	CALA	BNAU	EGGS	NEMA	CEGG	AMPH	TUNI	WORM	ECTO	POLY	ECHL	BCYP	GAST	CUMA	OSTR
0	MEAN	417.1	385.0	236.6	185.3	160.7	57.3	53.0	48.1	33.8	26.4	22.7	14.0	9.8	9.6	8.1	5.5	4.4
0	SD	516.6	513.2	250.1	420.4	492.4	55.3	127.8	68.5	57.3	58.0	22.2	17.0	27.1	19.7	14.3	23.6	10.7
0	SE	88.6	88.0	42.9	72.1	84.4	9.5	21.9	11.8	9.8	9.9	3.8	2.9	4.6	3.4	2.4	4.1	1.8
0	V/MEAN	639.8	684.0	264.3	953.8	1508.5	53.5	308.3	97.6	97.0	127.3	21.6	20.7	74.7	40.4	25.2	102.2	26.2
0	S/M**M	1.2	1.3	1.1	2.3	3.1	1.0	2.4	1.4	1.7	2.2	1.0	1.2	2.8	2.0	1.8	4.3	2.5
0	S/M***M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.3	0.2	0.2	0.8	0.6

1 CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; MARINE ZONE; MAJOR CATEGORIES  
 0 NUMBERS PER 1.00 SQ M AVERAGED OVER ALL SAMPLES FOR STATION 31  
 0 N° 22

0	STAT	HARP	BNAU	CEGG	DNAU	AMPH	EGGS	CALA	NEMA	OSTR	CUMA	ECTO	POLY	ECHL	BCYP	GAST	TARD	MSI	ROTI
0	MEAN	3378.1	803.7	464.5	274.7	244.3	149.2	106.5	75.6	63.1	37.2	34.9	15.5	9.1	8.4	6.0	3.7		
0	SD	4526.7	1467.6	563.9	294.5	462.1	279.4	91.5	72.1	98.2	103.2	41.0	20.1	16.8	10.5	11.2	11.2	6.4	
0	SE	965.1	312.9	120.2	62.8	98.5	59.6	19.5	15.4	20.9	22.0	8.7	4.3	3.6	2.2	2.4	2.4	1.4	
0	V/MEAN	6065.9	2679.6	684.6	315.6	874.1	523.4	78.7	68.8	152.8	286.6	48.2	26.2	20.2	12.1	15.0	20.9	11.1	
0	S/MEAN	1.3	1.8	1.2	1.1	1.9	1.9	0.9	1.0	1.6	2.8	1.2	1.3	1.2	1.3	1.9	1.7		
0	S/M**M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.5	

1 CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; MARINE ZONE; MAJOR CATEGORIES  
 0 NUMBERS PER 1.00 SQ M AVERAGED OVER ALL SAMPLES FOR STATION 31  
 0 N° 22

1 CAMPBELL RIVER FORESHORE STUDY; SLED SAMPLES; MARINE ZONE; MAJOR CATEGORIES  
 0 NUMBERS PER 1.00 SQ M AVERAGED OVER ALL SAMPLES FOR STATION ALL  
 0 N= 56

	STAT	HARP	BNAU	CNAU	GEGG	CALA	EGGS	AMPH	NEMA	EETO	OSIR	TUNI	WORM	CUMA	POLY	GAST	ECHL	BCYP
0	MEAN	1560.9	428.3	361.2	214.6	185.5	156.2	125.2	64.5	27.5	27.4	24.1	21.5	17.9	14.6	8.2	7.1	7.0
0	SD	3187.1	1010.6	445.1	415.1	211.8	418.7	306.1	62.5	31.2	67.7	46.5	46.5	68.2	18.1	13.0	21.5	16.6
0	SE	425.9	135.0	59.5	55.5	28.3	55.9	40.9	8.4	4.2	9.1	6.2	6.2	9.1	2.4	1.7	2.9	2.2
0	V/MEAN	6507.7	2384.7	548.6	802.9	241.8	1122.4	748.4	60.5	35.4	167.3	89.5	100.6	259.3	22.6	20.8	65.3	39.3
0	S/MEAN	2.0	2.4	1.2	1.9	1.1	2.7	2.4	1.0	1.1	2.5	1.9	2.2	3.8	1.2	1.6	3.0	2.4
0	S/MM*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.3
0	STAT	BLVA	ACAR	DECA	MEDU	TANA	QLAD	EUPH	ISOP	INSE	FILA	QHAE	SIPH	PARA	CRZO	TARD	MSI	ROTI
0	MEAN	3.5	3.3	1.4	1.4	1.4	0.8	0.6	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	SD	6.9	7.5	3.9	3.5	3.4	3.0	3.2	0.8	0.5	0.5	0.3	0.3	0.0	0.0	0.0	0.0	0.0
0	SE	0.9	1.0	0.5	0.5	0.5	0.4	0.4	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	V/MEAN	13.5	16.8	11.2	9.1	8.4	11.8	16.3	2.2	1.9	4.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
0	S/MEAN	2.0	2.2	2.9	2.6	2.5	3.9	5.0	2.6	3.6	7.5	7.5	0.0	0.0	0.0	0.0	0.0	0.0
0	S/MM*	0.6	0.7	2.1	1.9	1.8	4.9	7.8	8.1	25.5	104.8	209.5	209.5	0.0	0.0	0.0	0.0	0.0

and the first two were the most important. The third was also significant, but its effect was smaller than that of the first two.

The results of the second experiment are shown in Table 2. The first two factors were significant, but the third was not. The first factor had a large effect, while the second had a smaller effect.

The results of the third experiment are shown in Table 3. The first two factors were significant, but the third was not. The first factor had a large effect, while the second had a smaller effect.

The results of the fourth experiment are shown in Table 4. The first two factors were significant, but the third was not. The first factor had a large effect, while the second had a smaller effect.

The results of the fifth experiment are shown in Table 5. The first two factors were significant, but the third was not. The first factor had a large effect, while the second had a smaller effect.

The results of the sixth experiment are shown in Table 6. The first two factors were significant, but the third was not. The first factor had a large effect, while the second had a smaller effect.

The results of the seventh experiment are shown in Table 7. The first two factors were significant, but the third was not. The first factor had a large effect, while the second had a smaller effect.

The results of the eighth experiment are shown in Table 8. The first two factors were significant, but the third was not. The first factor had a large effect, while the second had a smaller effect.

The results of the ninth experiment are shown in Table 9. The first two factors were significant, but the third was not. The first factor had a large effect, while the second had a smaller effect.