Data Report on the

Surficial Geology of Hecate Strait

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V0S 1A0

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GEOLOGICAL SURVEY OF CANADA,
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Introduction

This data report is a listing of all surficial geology data held by the Pacific Geoscience Centre from the Hecate Strait region. The report contains maps of grab sample locations, seismic and side scan track lines as well as tables of textural analyses of 980 grab samples, descriptions of 8 piston cores, results of studies of the calcareous biogenic composition of 50 grab samples, and tables indicating the start and end times and data quality of all seismic and side scan sonar lines.

Grab Samples

Grab samples were collected by: (1) the Pacific Biological Station, Nanaimo, B.C. in the course of Fisheries investigations in the area; (2) the Canadian Hydrographic Service, Sidney, B.C.; and, (3) the Geological Survey of Canada, Pacific Geoscience Centre, Sidney, B.C.

Samples were collected using a Shipek grab sampler which obtains a sample 20 cm x 20 cm to a maximum depth of about 10 cm.

Samples were analysed texturally using sieves for the gravel fraction, settling tube for the sands and a Sedigraph 5000D for the mud fraction. Calcium carbonate content was determined by acid leaching.

Individual size fractions (gravel, sand, mud) are archived at the Pacific Geoscience Centre; information about these samples can be obtained from Ms. T. Forbes (604) 656-8425.

Cores

Cores were obtained using a 1200 kg Benthos piston corer (6.67 cm core diam.) with a 75 kg trip weight corer. Split cores are archived at the Pacific Geoscience Centre; further information about these cores can be

obtained from Dr. J. Luternauer, Geological Survey, Vancouver, (604) 666-0788.

Underway Geophysics

Air gun seismic profiles were obtained using a Bolt 82 cm^3 (5 $in.^3$) air gun and a 30-m single channel hydrophone array. Further information about data collected during cruise END84B can be obtained from Dr. J. Luternauer, Geol. Surv. Can., Vancouver, and for other cruises from Dr. B. Bornhold, Geological Survey, Pacific Geoscience Centre, Sidney, B.C. (604) 656-82657.

High resolution seismic profiles were obtained with a Huntec DeepTow boomer system. Further information about the data from HUD81-II lines 10-11, 15-16, and 25-26 and cruise END84B can be obtained from Dr. J. Luternauer; information on other data can be obtained from Dr. B. Bornhold.

Side scan sonographs were acquired using a Klein 50 kHz scale-corrected (K-MAPS) side scan system with a 500 m swath width for all cruises except for HUDSON 1981-II. A long-range side scan system (0.75 - 1.5 km swath width) developed by the Atlantic Geoscience Centre was used during the HUDSON 1981 cruise.

HECATE STRAIT GRAB SAMPLE DATA

Samples - Listed in order of collection - most recently collected listed last.

Location - To 00.1 minutes lat. and long.

Grain Size Stats. - Rounded to 0.01 ø units.

% G/S/S/C - Rounded to 0.1%

- Where rounding results in > 100% or < 100% drop or add 0.1% respectively from or to the highest value

S/M ratio - rounded to 0.1

% $CaCo_3$ - rounded to 0.5%

Comments - where samples are multimodal (M), have a gravel fraction mostly shell or living shell or contain wood. Where grain size data not available textural data from lab or field notes is given.

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Location Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR79A-1	54°22.1'	131°21.5'	190	6.13	2.91	1.10	0.0	22.2	55.2	22.6	0.3	<2.0	M
-2	54°22.5'	131°19.8'	183	-	-	-	-	-	-	-	-	-	mud
-3	54°21.7'	131°19.6'	164	6.13	2.97	1.09	0.0	23.3	53.3	23.4	0.3	-	M
-4	54°21.4'	131°18.8'	-	-	-	-	-	-	-	-	-	-	muddy sand
-5	54°21.1'	131°17.5'	-	-	-	-	-	-	-	-	-	-	sandy mud
-6	54°21.0'	131°16.6'	110	5.73	2.77	1.33	0.0	28.7	53.0	18.3	0.4	<2.0	M
-7	54°21.0'	131°15.0'	91	3.06	0.85	1.18	0.0	87.9	12.1	0.0	7.3	6.0	
-8	54°21.2'	131°13.5'	74	3.63	2.02	3.15	0.0	82.7	11.8	5.5	4.8	4.5	M
-9	54°14.5'	131°24.4'	29	3.24	1.88	3.61	0.0	89.0	6.8	4.2	8.1	3.5	M; wood fragments
-10	54°16.7'	131°25.2'	51	2.74	0.67	2.00	0.0	94.7	5.3	0.0	17.9	<2.0	
-11	54°17.3'	131°25.5'	70	2.92	1.60	4.72	0.0	94.0	3.1	2.9	15.9	3.0	M
-12	54°17.9'	131°25.2'	82	1.28	1.97	-1.23	21.9	77.0	1.1	0.0	69.5	3.0	M
-13	54°18.1'	131°25.5'	104	2.11	1.22	-2.36	5.7	92.0	2.3	0.0	40.6	3.0	M
-14	54°18.3'	131°25.6'	123	2.47	0.57	1.93	0.0	98.1	1.9	0.0	51.5	3.0	
-15	54°18.5'	131°26.0'	139	2.52	0.49	2.22	0.0	98.6	1.4	0.0	70.7	4.0	
-16	54°18.9'	131°26.5'	157	2.87	0.56	2.17	0.0	95.8	4.2	0.0	23.1	4.0	

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Location Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR79-17	54°19.7'	131°27.0'	176	2.97	0.82	1.33	0.0	89.8	10.2	0.0	8.9	7.5	
-18	54°14.5'	131°35.2'	37	3.06	0.86	1.26	0.0	87.2	12.8	0.0	6.8	5.0	
-19	54°14.6'	131°35.2'	59	3.32	1.00	0.65	0.0	78.2	21.8	0.0	21.8	6.0	M
-20	54°15.0'	131°35.5	75	-	-	-	-	-	-	-	-	-	sand; wood fragments
-21	54°15.1'	131°35.6	93	3.59	1.02	0.38	0.0	69.4	30.6	0.0	2.3	<2.0	
-22	54°15.2'	131°35.6'	108	2.61	0.48	2.27	0.0	98.3	1.7	0.0	56.8	<2.0	
-23	54°16.0'	131°36.5'	124	2.79	0.59	1.95	0.0	96.2	3.8	0.0	25.6	4.5	
-24	54°17.4'	131°36.5'	146	2.98	0.64	1.52	0.0	94.4	5.6	0.0	17.0	4.0	wood fragments
-25	54°18.4'	131°37.4'	163	3.26	0.71	1.23	0.0	89.5	10.5	0.0	10.5	-	
-26	54°15.0'	131°10.0'	22	-	-	-	-	-	-	-	-	-	a - shelly gravelly sand b - fine sand
-27	54°15.0'	131°20.0'	28	1.95	0.67	-0.54	1.2	97.5	1.3	0.0	77.5	4.0	M
-28	54°15.0'	131°30.0'	60	3.56	0.83	0.81	0.0	77.8	22.2	0.0	3.5	-	
-29	54°10.0'	131°30.0'	18	-	-	-	-	-	-	-	-	-	a - muddy fine sand b - shelly coarse sand
-30	54°05.0'	131°30.0'	18	-	-	-	-	-	-	-	-	-	a - shelly muddy sand b - shelly coarse sand

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Location Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR79A-31	54°00.0'	131°30.0'	18	2.44	0.48	2.69	0.0	98.3	1.7	0.0	59.4	4.5	
-32	54°00.0'	131°20.0'	25	2.18	0.54	1.95	0.0	98.6	1.4	0.0	71.3	5.5	
-33	54°05.0'	131°20.0'	25	1.76	0.59	2.27	0.0	98.8	1.2	0.0	85.7	5.0	
-34	54°10.0'	131°20.0'	24	2.14	0.81	-0.68	0.8	98.1	1.1	0.0	93.7	4.5	M
-35	54°00.0'	131°10.0'	33	-2.05	2.69	0.95	72.5	25.4	2.1	0.0	12.3	14.5	M
-36	54°05.0'	131°10.0'	35	2.36	0.83	1.36	0.0	94.6	5.4	0.0	17.4	-	
-37	54°10.0'	131°10.0'	33	2.17	0.85	-0.07	2.0	94.7	3.3	0.0	28.7	5.0	M
-38	54°10.0'	131°05.2'	22	-0.33	2.12	-0.25	39.1	59.2	1.7	0.0	34.6	5.5	M
-39	54°10.0'	131°04.6'	41	1.81	1.02	-1.11	3.8	93.7	2.5	0.0	37.6	6.0	M
-40	54°10.0'	131°04.5'	60	2.90	0.82	1.51	0.0	89.8	10.2	0.0	8.8	3.5	
-41	54°10.0'	131°04.2'	82	3.34	0.88	0.88	0.0	81.8	18.2	0.0	4.5	6.0	
-42	54°10.0'	131°03.8'	100	3.43	0.89	0.80	0.0	78.6	21.4	0.0	3.7	5.0	
-43	54°10.0'	131°02.7'	104	2.10	0.83	1.27	0.0	96.5	3.5	0.0	28.0	-	
-44	54°10.0'	131°01.4'	82	-2.37	2.89	1.16	73.7	22.5	3.8	0.0	5.9	20.0	M
-45	54°10.0'	131°00.8'	70	1.23	3.02	0.18	18.9	72.7	4.6	3.8	8.7	27.0	M
-46	54°10.0'	131°00.2'	51	-1.19	3.18	0.07	50.8	45.2	4.0	0.0	11.3	46.5	M; mostly shell

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Location Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR79A-47	54°10.0'	131°58.5'	57	1.87	0.81	1.09	0.7	96.3	3.0	0.0	32.4	5.0	M
-48	54°10.0'	130°55.5'	42	-0.81	2.88	0.20	49.7	45.8	4.5	0.0	10.1	17.5	M
-49	54°15.0'	131°00.8'	102	1.86	1.75	0.08	12.6	74.0	13.4	0.0	5.5	10.5	M
-50	54°15.1'	131°02.0'	119	3.23	1.04	0.61	0.0	78.7	21.3	0.0	21.3	-	
-51	54°15.0'	131°03.0'	102	3.95	1.98	3.27	0.0	82.2	12.0	5.8	4.6	5.5	M
-52	54°15.1'	131°03.5'	82	3.26	0.82	1.22	0.0	84.7	15.3	0.0	5.6	-	
-53	54°15.2'	131°03.8'	64	2.95	0.55	1.93	0.0	95.9	4.1	0.0	23.4	3.5	
-54	54°15.2'	131°04.4'	46	2.71	0.54	1.90	0.0	97.4	2.6	0.0	38.0	4.0	
-55	54°15.0'	131°00.5'	22	0.98	1.28	-0.51	9.9	88.1	2.0	0.0	43.2	<2.0	M
-56	54°20.0'	131.00.0'	42	-	-	-	-	-	-	-	-	-	entirely shell
-57	54°20.0'	131.01.2'	66	1.39	1.44	0.54	8.6	85.2	6.2	0.0	13.6	9.5	M
-58	54°20.0'	131°03.0'	85	1.55	1.07	0.99	2.8	93.1	4.1	0.0	22.6	-	M
-59	54°20.0'	131°04.0'	100	2.02	1.29	0.13	3.7	90.0	6.3	0.0	14.2	5.5	M
-60	54°20.0'	131°06.8'	84	3.36	0.57	1.59	0.0	91.8	8.2	0.0	11.3	-	
-61	54°21.2'	131°08.5'	68	3.28	1.31	5.10	0.0	93.8	3.8	2.4	15.1	4.5	M
-62	54°20.0'	131°10.0'	62	2.97	0.92	1.52	0.0	84.6	15.4	0.0	15.4	5.5	

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Location Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR79A-63	54°22.0'	131°10.0'	69	3.33	0.86	1.21	0.0	80.8	19.2	0.0	4.2	-	
-64	54°24.0'	131°10.0'	80	3.39	0.54	2.00	0.0	91.9	8.1	0.0	11.3	5.0	
-65	54°25.0'	131°10.0'	97	3.89	2.00	2.97	0.0	79.9	13.8	6.3	20.0	6.0	M
-66	54°25.5'	131°10.0'	120	4.06	2.27	2.44	0.0	76.0	15.6	8.4	24.0	5.0	M
-67	54°26.0'	131°10.0'	137	3.61	0.94	0.60	0.0	70.7	29.3	0.0	29.3	5.5	
-68	54°05.0'	131°00.0'	101	-	-	-	-	-	-	-	-	-	fine sand
-69	53°50.0'	130°50.0'	97	-	-	-	-	-	-	-	-	-	muddy sand
-70	53°45.0'	131.00.0'	47	0.64	1.48	-0.84	16.7	81.1	2.2	0.0	36.3	3.5	M; gravel mostly shell
-71	53°45.0'	130°52.6'	64	2.20	0.54	2.66	0.0	98.1	1.9	0.0	53.0	<2.0	
-72	53°45.0'	130.50.8'	82	2.49	0.51	2.75	0.0	97.8	2.2	0.0	44.9	<2.0	
-73	53°45.0'	130°49.7'	101	2.79	0.59	1.22	0.2	96.1	3.7	0.0	26.2	<2.0	M
-74	53.45.0'	130°47.5'	119	3.33	1.46	4.27	0.0	91.9	5.0	3.1	11.4	<2.0	M
-75	53°45.0'	130°45.3'	137	4.12	2.32	2.82	0.0	82.7	9.1	8.2	4.8	<2.0	M
-76	53°40.0'	130°50.0'	49	1.67	0.64	2.53	0.3	97.8	1.9	0.0	52.1	2.0	M
-77	53°40.0'	130°47.2'	68	1.96	0.55	2.10	0.1	98.6	1.3	0.0	78.1	<2.0	M
-78	53°40.0'	130°46.0'	88	1.96	0.68	1.53	0.0	98.2	1.8	0.0	54.4	<2.0	

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR79A-79	53°40.0'	130°45.8'	104	2.20	0.76	1.38	0.0	97.1	2.9	0.0	33.8	<2.0	
-80	53°40.0'	130°45.5'	122	3.06	1.45	4.56	0.0	95.1	2.0	2.9	19.1	<2.0	M
-81	53°40.0'	130°44.5'	137	3.49	1.95	2.98	0.0	87.3	6.9	5.8	12.7	2.0	M
-82	53°38.0'	131°10.0'	44	1.91	0.93	-0.27	3.2	94.0	2.8	0.0	33.8	23.0	M
-83	53°38.0'	131°07.2'	60	2.00	0.98	-0.45	3.9	92.7	3.4	0.0	27.6	22.5	M
-84	53°38.0'	131°06.7'	48	-0.51	3.14	-0.66	34.9	62.8	2.3	0.0	26.9	25.0	M
-85	53°38.0'	131°05.3'	53	0.72	1.60	-0.56	21.0	76.3	2.7	0.0	28.9	52.0	M; gravel mostly shell
-86	53°38.0'	131°04.7'	71	2.01	1.53	-2.39	7.2	89.8	3.0	0.0	30.1	14.5	M; gravel mostly shell
-87	53°38.0'	131°04.0'	57	0.86	1.73	-0.96	17.6	79.0	3.4	0.0	23.5	75.0	M; gravel mostly shell
-88	53°38.0'	131°03.0'	77	2.19	0.85	0.91	0.0	95.0	5.0	0.0	19.0	8.0	M
-89	53°38.0'	131°02.1'	50	0.42	1.82	-0.88	26.0	72.3	1.7	0.0	43.7	57.5	M; gravel mostly shell
-90	53°38.0'	131°00.0'	59	0.30	1.84	-0.67	27.4	70.4	2.2	0.0	32.2	49.5	M; gravel mostly shell
-91	53°36.0'	131°00.0'	46	-3.06	2.87	0.72	72.8	26.1	1.1	0.0	22.8	30.5	M
-92	53°36.0'	131°01.8'	40	-2.70	3.25	0.01	60.2	39.3	0.5	0.0	75.2	18.5	M
-93	53°36.0'	131°03.8'	37	-3.87	1.45	1.90	97.9	1.5	0.6	0.0	2.6	51.0	M
-94	53°36.0'	131°05.1'	42	-1.93	2.07	0.19	70.3	29.3	0.4	0.0	76.1	16.5	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Location Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR79A-95	53°36.0'	131°06.8'	66	1.50	0.86	0.19	4.0	94.0	2.0	0.0	46.3	53.5	M
-96	53°36.0'	131°08.8'	55	0.81	2.35	-1.16	20.2	76.9	2.9	0.0	26.9	15.5	M
-97	53°36.0'	131°10.0'	40	-3.22	3.38	0.77	71.4	27.1	1.5	0.0	18.4	28.0	M
-98	53°34.0'	131°10.0'	55	1.84	0.80	0.05	2.0	96.0	2.0	0.0	47.6	17.0	M
-99	53°34.0'	131°08.3'	66	1.97	0.69	0.24	1.1	97.2	1.7	0.0	57.7	31.5	M
-100	53°34.0'	131°07.5'	62	0.80	1.92	-1.01	19.0	77.6	3.4	0.0	22.7	87.5	M; gravel mostly shell
-101	53°34.0'	131°06.5'	46	-3.83	2.55	1.51	86.7	12.4	0.9	0.0	14.3	55.0	M
-102	53°34.0'	131°04.0'	46	-3.29	2.51	1.37	81.8	17.3	0.9	0.0	19.8	71.5	M
-103	53°34.0'	131°00.0'	49	-3.72	2.54	1.53	84.7	14.6	0.7	0.0	20.7	32.0	M
-104	53°32.0'	131°00.0'	53	0.01	2.68	-0.72	32.9	66.1	1.0	0.0	70.0	6.5	M
-105	53°32.0'	131°02.5'	50	-4.18	1.98	2.54	92.3	6.8	0.9	0.0	7.5	82.0	M
-106	53°32.0'	131°05.2'	39	-4.85	2.45	1.78	89.3	10.1	0.6	0.0	18.0	60.0	M
-107	53°32.0'	131°07.8'	40	-2.83	3.07	0.77	70.9	27.7	1.4	0.0	20.4	49.0	M
-108	53°32.0'	131°08.5'	55	1.36	0.77	0.28	3.4	95.3	1.3	0.0	73.7	45.5	M
-109	53°32.0'	131°10.0'	71	1.70	1.54	-1.54	9.0	87.3	3.7	0.0	23.6	29.0	M
-110	53°38.3'	131°02.9'	68	-0.16	5.70	0.52	43.5	41.1	4.7	10.7	2.7	11.0	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Location Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR79A-111	53°40.0'	131°00.0'	38	-3.26	2.47	1.36	83.8	14.5	1.7	0.0	8.8	47.5	M
-112	53°40.0'	131°01.6'	42	-4.77	1.81	3.37	95.5	3.3	1.2	0.0	2.8	56.5	M
-113	53°40.0'	131°03.4'	57	-0.73	3.15	-0.21	44.9	52.9	2.2	0.0	24.2	23.5	M
-114	53°40.0'	131°05.7'	46	-4.30	2.58	2.01	87.6	11.1	1.3	0.0	8.7	44.5	M
-115	53°40.0'	131°06.8'	57	0.23	2.89	-0.89	28.1	69.2	2.7	0.0	25.4	14.0	M
-116	53°40.0'	131°09.1'	46	1.36	1.99	-1.84	12.1	84.2	3.7	0.0	22.7	27.5	M
-117	53°40.0'	131°10.0'	44	2.30	2.25	3.05	3.3	88.4	3.7	4.6	10.7	8.0	M
-118	53°39.0'	131°10.0'	46	-2.65	3.30	0.89	69.4	27.7	2.9	0.0	9.7	18.0	M
-119	53°39.0'	131°09.3'	47	-0.35	3.14	-0.49	35.4	60.7	3.9	0.0	15.7	18.0	M
-120	53°39.0'	131°08.6'	42	0.37	2.00	-0.86	18.7	78.3	3.0	0.0	26.5	10.5	M
-121	53°39.0'	131°08.2'	47	1.62	1.77	-2.09	10.2	87.0	2.8	0.0	31.2	10.0	M
-122	53°39.0'	131°05.6'	44	1.83	0.80	-1.10	3.0	95.9	1.1	0.0	87.8	10.5	M
-123	53°39.0'	131°05.0'	47	-2.77	2.71	1.27	77.3	19.6	3.1	0.0	6.4	48.0	M
-124	53°39.0'	131°03.8'	66	-0.15	4.36	-0.15	42.0	31.7	26.3	0.0	26.3	14.5	M
-125	53°39.0'	131°02.7'	47	-2.30	3.29	0.44	64.0	34.5	1.5	0.0	23.5	10.5	M
-126	53°39.0'	131°00.0'	44	-3.72	2.86	1.35	82.2	16.1	1.7	0.0	9.3	40.0	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Location Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR79A-127	53°37.0'	131°00.0'	46	1.05	1.33	-1.30	13.5	85.0	1.5	0.0	58.0	25.0	M
-128	53°37.0'	131°02.5'	38	-5.08	1.28	4.35	98.2	1.3	0.5	0.0	2.6	84.5	M
-129	53°37.0'	131°03.8'	46	-0.57	1.99	-0.24	39.3	59.4	1.3	0.0	46.6	28.0	M
-130	53°37.0'	131°05.3'	47	0.63	1.62	-0.94	20.0	78.0	2.0	0.0	39.6	57.0	M; gravel mostly shell
-131	53°37.0'	131°06.6'	58	1.63	1.57	-2.23	7.9	89.6	2.5	0.0	35.5	14.5	M; gravel mostly shell
-132	53°37.0'	131°08.3'	44	-4.67	2.32	2.39	89.3	10.2	0.5	0.0	21.0	22.0	M
-133	53°37.0'	131°10.0'	46	-0.22	3.02	-0.68	32.2	64.5	3.3	0.0	19.4	31.0	M
-134	53°35.0'	131°10.0'	58	1.90	2.53	0.43	10.7	84.0	2.3	3.0	15.8	13.5	M
-135	53°35.0'	131°07.3'	60	1.31	1.84	-1.70	10.5	85.1	4.4	0.0	19.3	50.5	M; gravel mostly shell
-136	53°35.0'	131°06.3'	42	-3.74	2.53	1.34	84.7	14.5	0.8	0.0	19.3	28.5	M
-137	53°35.0'	131°04.4'	38	-4.06	2.79	1.33	83.7	15.4	0.9	0.0	16.8	73.0	M
-138	53°35.0'	131°02.1'	40	-3.65	2.64	1.44	87.3	10.6	2.1	0.0	5.1	54.0	M
-139	53°35.0'	131°00.0'	47	-4.19	1.24	4.64	97.7	1.7	0.6	0.0	2.7	78.0	M
-140	53°33.0'	131°00.0'	49	-3.24	2.25	1.76	85.5	12.5	2.0	0.0	6.4	16.0	M
-141	53.33.0'	131°02.8'	44	-2.51	2.87	0.95	69.7	27.3	3.0	0.0	9.2	56.5	M
-142	53°33.0'	131°05.2'	33	-1.03	2.51	0.22	50.5	46.5	3.0	0.0	15.7	50.5	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR79A-143	53°33.0'	131°06.3'	53	0.02	1.92	-0.51	33.2	65.1	1.7	0.0	38.6	53.5	M; gravel mostly shell
-144	53°33.0'	131°08.0'	53	-1.67	2.48	0.73	68.3	28.2	3.5	0.0	8.0	79.0	M
-145	53°33.0'	131°08.5'	62	1.48	1.11	-0.85	4.6	92.3	3.1	0.0	29.4	62.5	M; gravel mostly shell
-147	53°33.0'	131°10.0'	44	-	-	-	-	-	-	-	-	-	trace of sand
-148	53°31.0'	131°10.0'	31	0.58	1.31	-1.71	12.5	86.9	0.6	0.0	144.7	7.5	M
-149	53°31.0'	131°09.5'	49	0.81	1.43	-1.18	15.4	82.9	1.7	0.0	49.3	50.5	M; gravel mostly shell
-150	53°31.0'	131°07.8'	42	-	-	-	-	-	-	-	-	-	Shelly sandy gravel
-151	53°31.0'	131°06.0'	42	-1.71	2.81	0.24	58.5	39.9	1.6	0.0	25.8	46.5	M
-152	53°00.0'	131°00.0'	25	-1.78	2.45	0.02	55.6	44.2	0.2	0.0	203.7	21.5	M
-153	53°00.0'	130°55.0'	29	1.47	0.76	-0.34	2.0	97.0	1.0	0.0	94.7	28.5	M
-154	53°00.0'	130°54.7'	31	-0.38	1.93	-0.94	31.5	68.3	0.2	0.0	326.2	13.0	M
-155	53°00.0'	130°54.2'	33	1.59	0.51	1.39	0.4	98.9	0.7	0.0	140.6	5.5	M
-156	53°00.0'	130°52.2'	29	1.17	1.11	0.09	3.0	93.3	3.7	0.0	25.3	7.5	M
-157	53°00.0'	130°31.3'	57	1.48	0.96	-0.44	4.0	94.8	1.2	0.0	79.3	62.5	M; gravel mostly shell
-158	53°00.0'	130°49.0'	75	2.92	0.55	1.60	0.0	96.6	3.4	0.0	28.2	4.0	
-159	53°00.0'	130°46.9'	86	3.26	1.24	5.05	0.0	92.7	5.3	2.0	12.6	4.5	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR79A-159	53°00.0'	130°46.9'	86	3.26	1.24	5.05	0.0	92.7	5.3	2.0	12.6	4.5	M
-160	53°00.0'	130°44.2'	98	3.24	1.25	4.62	0.0	92.9	4.9	2.2	0.0	13.1	M
-161	53°00.0'	130°42.3'	113	-	-	-	-	-	-	-	-	-	trace of sand
-162b	53°00.0'	130°41.4'	139	1.93	1.41	3.95	0.0	94.6	3.9	1.5	17.7	2.0	M
-163b	53°00.0'	130°39.5'	133	3.93	1.68	2.86	0.0	73.3	21.2	5.5	2.8	<1.0	M
-164	53°00.0'	130°37.1'	122	4.32	1.91	2.71	0.0	61.3	31.5	7.2	1.6	<1.0	M
-165	53°00.0'	130°35.7'	92	2.75	2.30	1.35	3.8	81.6	10.4	4.2	5.6	2.0	M
-166	53°00.0'	130°33.1'	93	1.29	2.61	1.09	15.6	74.0	7.4	3.0	7.1	<1.0	M
-167	53°00.0'	130°31.1'	117	3.65	1.36	4.63	0.0	86.3	10.9	2.8	6.3	<1.0	M
-168	53°00.0'	130°30.0'	122	2.67	0.92	0.45	0.0	94.6	5.4	0.0	17.4	<1.0	M
-169	52°55.9'	130°37.2'	88	2.05	0.58	1.61	0.0	98.6	1.4	0.0	70.7	<1.0	
-170	52°58.0'	130°35.0'	119	-0.94	3.22	0.54	59.7	32.4	7.9	0.0	4.1	14.5	M
-171	52°58.0'	130°36.8'	121	1.60	0.64	2.59	0.0	98.4	1.6	0.0	61.1	<1.0	
-172	52°58.0'	130°38.8'	75	0.54	1.83	-2.32	10.0	89.5	0.5	0.0	167.3	<1.0	M
-173	52°58.0'	130°39.7'	60	0.64	1.50	-0.71	17.0	81.1	1.9	0.0	43.5	<1.0	M
-174	52°58.0'	130°41.3'	55	-2.38	2.31	0.44	67.5	32.2	0.3	0.0	130.6	2.5	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR79A-175	52°58.0'	130°43.3'	59	-	-	-	-	-	-	-	-	-	gravelly sand
-176	52°58.0'	130°44.2'	66	1.50	0.60	1.89	0.0	99.1	0.9	0.0	105.2	5.0	M
-177	52°58.0'	130°45.0'	64	1.80	0.73	2.11	0.0	97.6	2.4	0.0	40.0	7.5	
-178	52°56.0'	130°45.0'	48	-0.14	1.94	-0.77	30.2	68.6	1.2	0.0	55.4	42.5	M; gravel mostly shell
-179	52°56.0'	130°43.6	53	-0.54	1.86	-0.66	35.3	64.3	0.4	0.0	168.0	7.5	M
-180	52°56.0'	130°42.3'	55	1.14	1.01	-1.84	4.9	94.0	1.1	0.0	86.4	16.5	M
-181	52°56.0'	130°41.8'	55	-4.76	1.72	3.26	95.3	3.9	0.8	0.0	4.6	26.3	M
-182	52°56.1'	130°39.3'	70	0.43	0.95	-0.86	10.3	89.2	0.5	0.0	167.6	<1.0	M
-183	52°56.0'	130°37.9'	81	1.46	0.88	-0.41	2.2	96.4	1.4	0.0	67.3	<1.0	M
-184	52°56.0'	130°37.0'	93	1.50	0.58	0.34	0.5	99.3	0.2	0.0	498.0	<1.0	M
-185	52°56.0'	130°36.0'	99	1.34	1.62	1.25	4.9	91.4	2.6	1.1	25.0	2.0	M
-186	52°56.0'	130°35.0'	102	1.90	2.84	-0.07	12.2	79.0	5.8	3.0	9.0	6.5	M
-187	52°54.0'	130°35.0'	104	2.51	1.18	4.80	0.0	96.5	2.3	1.2	27.6	<1.0	M
-188b	52°54.0'	130°36.3'	93	2.97	1.62	4.17	0.0	92.9	3.9	3.2	13.1	1.0	M
-189	52°54.0'	130°37.8'	88	1.10	1.80	-0.62	15.9	79.4	4.7	0.0	17.1	4.5	M
-190	52°54.0'	130°38.9'	77	-0.04	2.70	-0.22	38.7	56.9	4.4	0.0	12.9	16.0	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR79A-191	52°54.0'	130°41.2'	66	1.11	1.91	1.19	11.7	70.9	17.4	0.0	4.1	-	M
-192	52°54.0'	130°43.2'	57	-0.85	2.12	-0.54	44.2	55.3	0.5	0.0	115.4	6.5	M
-193	52°54.0'	130°44.5'	57	-0.42	2.06	-0.07	42.3	55.7	2.0	0.0	28.3	45.5	M
-194	52°54.0'	130°45.0'	55	-0.70	2.10	0.25	55.0	43.1	1.9	0.0	22.9	65.0	M; gravel mostly shell
-195b	53°02.9'	130°44.0'	133	3.61	1.57	3.94	0.0	85.1	11.1	3.8	5.7	<1.0	M
-196	53°02.1'	130°44.0'	126	1.71	0.63	2.95	0.0	98.1	1.9	0.0	53.0	<1.0	
-197	53°01.1'	130°44.0'	108	3.52	1.07	0.43	0.0	68.4	31.6	0.0	31.6	4.5	M
-198	53°00.1'	130°44.0'	104	3.49	1.09	-0.39	1.1	70.8	28.1	0.0	2.5	-	M
-199	52°59.1'	130°44.0'	91	2.22	0.60	1.86	0.0	97.8	2.2	0.0	43.6	3.5	
-200	52°58.8'	130°44.0'	82	2.14	1.00	1.87	0.0	91.1	8.9	0.0	10.3	3.0	
-201	52°58.5'	130°44.0'	73	1.37	0.67	2.07	0.1	98.8	1.1	0.0	89.0	2.5	M
-202	52°58.0'	130°44.0'	64	1.20	0.67	-0.44	1.3	98.1	0.6	0.0	168.1	3.0	M
-203	52°57.0'	130°44.0'	55	0.84	1.23	-0.38	10.1	87.9	2.0	0.0	43.1	40.0	M
-204	52°57.0'	130°42.0'	55	1.42	0.66	2.26	0.6	98.0	1.4	0.0	68.1	3.5	M
-205	52°57.9'	130°42.0'	55	-0.25	1.87	-0.68	33.3	66.1	0.6	0.0	121.2	2.5	M
-206	52°58.8'	130°42.0'	70	0.06	1.68	-0.38	32.6	66.9	0.5	0.0	127.5	<1.0	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Location Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR79A-207	52°59.0'	130°42.0'	89	1.50	0.77	0.46	1.4	97.4	1.2	0.0	80.4	8.0	M
-208	52°59.6'	130°42.0'	106	3.03	0.79	1.25	0.0	90.3	9.7	0.0	9.3	-	M
-209	53°00.8'	130°42.0'	128	3.29	0.92	0.87	0.0	81.2	18.8	0.0	4.3	-	
-210	53°01.0'	130°42.0'	146	1.82	2.85	0.17	22.8	67.4	6.7	3.1	6.9	12.0	M
-211	53°01.6'	130°42.0'	21	4.10	1.84	3.00	0.0	68.1	26.6	5.3	2.1	<1.0	M
-212	53°03.0'	130°42.0'	113	3.36	1.22	5.53	0.0	91.7	6.4	1.9	11.1	<1.0	M
-213	53°03.0'	130°40.0'	106	2.83	0.59	2.06	0.0	95.6	4.4	0.0	21.7	<1.0	
-214	53°01.6'	130°40.0'	124	4.35	2.07	2.87	0.0	61.9	31.2	6.9	1.6	<1.0	M
-215	53°00.6'	130°40.0'	128	4.27	2.10	2.89	0.0	67.8	25.2	7.0	2.1	<1.0	M
-216	53°00.2'	130°40.0'	145	2.94	1.62	3.97	0.0	91.3	5.6	3.1	10.5	1.5	M
-217	52°59.4'	130°40.0'	137	3.59	1.70	3.90	0.0	86.7	9.3	4.0	6.5	4.0	M
-218	52°58.8'	130°40.0'	108	1.65	0.82	1.89	0.3	96.7	3.0	0.0	32.4	<1.0	M
-219	52°58.6'	130°40.0'	77	1.22	0.94	-0.14	4.1	94.5	1.4	0.0	68.4	<1.0	M
-220	52°58.4'	130°40.0'	62	1.11	1.00	-0.65	5.7	92.8	1.5	0.0	61.3	<1.0	M
-221	52°58.1'	130°40.0'	59	0.14	1.61	-0.56	29.6	69.9	0.5	0.0	155.7	<2.0	M
-222	52°57.7'	130°40.0'	62	1.03	1.06	-1.16	6.8	92.6	0.6	0.0	153.3	<2.0	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR79A-223	52°57.0'	130°40.0'	62	0.13	1.48	-0.72	22.6	78.9	0.5	0.0	146.8	<1.0	M
-224	52°57.0'	130°38.0'	81	1.17	0.64	2.17	0.4	98.8	0.8	0.0	119.7	<1.0	M
-225	52°58.0'	130°38.0'	91	0.90	1.18	-1.18	17.6	80.6	1.8	0.0	44.9	2.5	M
-226	52°58.3'	130°38.3'	113	0.27	2.24	-0.20	38.5	59.0	2.5	0.0	23.7	8.0	M
-227	52°58.6'	130°38.0'	139	2.15	0.68	1.85	0.0	97.6	2.4	0.0	40.6	-	
-228	52°59.5'	130°38.0'	135	3.83	1.64	3.98	0.0	85.6	10.2	4.2	5.9	<1.0	M
-229b	53°01.0'	130°38.0'	120	2.68	1.29	4.46	0.0	92.3	6.2	1.5	12.0	<2.0	M
-230	53°01.7'	130°38.0'	104	-1.16	3.47	0.57	56.5	37.5	5.1	0.9	6.3	14.0	M
-231a	53°02.4'	130°38.0'	106	2.76	0.63	1.54	0.0	96.1	3.9	0.0	24.6	<2.0	
-232	53°03.0'	130°38.0'	102	2.64	0.63	1.83	0.0	96.2	3.8	0.0	25.5	<1.0	
-233	53°00.0'	131°00.0'	33	0.00	1.72	-0.27	36.9	62.4	0.7	0.0	88.2	28.0	M; gravel mostly shell
-234	53°00.0'	131°05.0'	131	1.24	1.24	1.39	4.8	89.0	6.2	0.0	14.4	<1.0	M; gravel mostly shell
-235	53°00.0'	131°10.0'	29	-1.72	2.59	0.28	62.8	36.3	0.9	0.0	38.5	32.0	M
-236	53°00.0'	131°15.0'	27	-4.11	2.03	2.18	92.3	6.8	0.9	0.0	7.9	95.5	M
-237	53°00.0'	131°20.0'	22	-3.60	2.21	1.65	88.9	9.9	1.2	0.0	8.1	61.5	M
-238	52°57.5'	131°20.0'	22	-	-	-	-	-	-	-	-	-	gravel

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Location Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR79A-239	52°55.0'	131°20.0'	44	-1.82	3.42	0.02	53.8	44.2	2.0	0.0	22.6	49.5	M
-240	52°55.0'	131°15.0'	26	-5.98	1.22	6.02	98.7	0.8	0.5	0.0	1.6	-	M
-241	52°55.0'	131°10.0'	26	-3.59	1.67	2.17	95.0	4.0	1.0	0.0	3.9	72.0	M
-242	52°55.0'	131°05.0'	29	-1.41	1.80	0.02	60.7	38.6	0.7	0.0	55.3	11.2	M
-243	52°55.0'	131°00.0'	31	-0.73	2.36	-0.29	42.7	56.6	0.7	0.0	87.1	21.5	M
-244	52°52.5'	131°00.0'	31	-1.21	2.82	-0.07	49.8	49.3	0.9	0.0	53.4	21.5	M
-245	52°50.0'	131°00.0'	29	-2.89	2.79	0.83	73.6	25.5	0.9	0.0	27.1	36.5	M
-246	52°50.0'	131°05.0'	27	-2.59	2.86	0.98	78.0	19.1	2.9	0.0	6.6	60.0	M
-247	52°50.0'	131°10.0'	26	-2.11	1.73	0.80	80.7	18.5	0.8	0.0	22.3	15.5	M
-248	52°50.0'	131°15.0'	22	-2.33	2.74	0.97	72.5	23.5	4.0	0.0	5.9	54.0	M
-249	52°50.0'	131°20.0'	88	-0.12	3.61	-0.27	42.5	51.7	5.8	0.0	9.0	18.5	M
-250	52°47.5'	131°20.0'	95	-0.73	3.16	0.48	55.6	33.0	11.4	0.0	2.9	38.5	M
-251	52°45.0'	131°20.0'	174	3.05	0.30	6.37	0.0	97.7	2.3	0.0	42.5	-	
-252	52°45.0'	131°15.0'	110	2.13	0.68	1.32	0.0	98.2	1.8	0.0	55.3	4.0	
-253	52°45.0'	131°15.0'	126	1.22	2.18	-1.73	14.3	83.5	2.2	0.0	37.4	5.5	M
-254	52°45.0'	131°05.0'	40	-	-	-	-	-	-	-	-	-	gravelly sand

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR79A-255	52°45.0'	131°00.0'	38	-3.75	2.45	1.80	86.3	11.8	1.9	0.0	6.3	55.0	M
-256	52°42.5'	131°00.0'	55	-	-	-	-	-	-	-	-	-	sandy shelly gravel
-257	52°40.0'	131°00.0'	68	-2.33	2.91	0.91	72.4	24.0	3.6	0.0	6.6	37.5	M
-258	52°40.0'	131°05.0'	71	-	-	-	-	-	-	-	-	-	shelly sandy gravel
-259	52°40.0'	131°10.0'	80	-3.21	2.06	0.69	88.8	10.5	0.7	0.0	15.2	14.0	M
-260	52°39.2'	131°10.0'	67	-0.92	2.70	0.23	55.3	42.6	2.1	0.0	20.6	24.0	M
-261	52°38.0'	131°10.0'	78	3.63	0.93	0.79	0.0	68.4	31.6	0.0	2.2	-	
-262	52°37.5'	131°10.0'	95	1.70	0.66	2.75	0.0	97.9	2.1	0.0	46.6	-	
-263	52°37.2'	131°10.0'	102	1.90	0.61	2.96	0.0	97.9	2.1	0.0	47.6	<1.0	
-264	52°36.5'	131°10.0'	126	1.22	2.75	-0.99	24.0	71.8	4.2	0.0	17.0	2.0	M
-265	52°35.0'	131°10.0'	144	-	-	-	-	-	-	-	-	-	sand
-266	52°35.0'	131°05.0'	100	1.95	2.06	0.33	7.2	88.1	2.8	1.9	19.1	2.5	M
-267	52°37.0'	131°05.3'	108	0.67	3.41	-1.18	23.9	74.9	1.2	0.0	60.9	<1.0	M
-268	52°37.4'	131°05.5'	100	-0.31	2.65	-0.00	47.7	51.0	1.3	0.0	41.0	1.0	M
-269	52°38.0'	131°05.6'	86	-1.08	2.63	0.65	64.3	32.9	2.8	0.0	11.8	26.5	M
-270	52°39.2'	131°05.2'	66	-3.61	2.26	1.87	88.8	10.0	1.2	0.0	8.1	56.0	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR79A-271	52°40.0'	131°05.2'	69	-0.99	2.74	0.62	60.0	35.1	4.9	0.0	7.1	74.0	M
-272	52°40.0'	131°00.0'	69	-	-	-	-	-	-	-	-	-	shelly gravel
-273	52°38.6'	131°00.4'	77	1.94	0.93	2.00	0.0	94.1	5.9	0.0	16.1	-	M
-274	52°37.8'	131°00.2'	84	-3.01	3.27	0.96	71.9	26.0	2.1	0.0	12.4	36.5	M
-275	52°36.4'	131°00.1'	110	-1.38	3.02	0.41	60.8	37.4	1.8	0.0	21.3	4.0	M
-276	52°35.0'	131°00.1'	110	2.26	0.54	2.03	0.2	97.9	1.9	0.0	51.2	<1.0	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR79B-1	52°17.8'	131°26.0'	82	2.46	0.53	2.38	0.0	97.9	2.1	0.0	46.7	<2.0	M
-2	54°17.5'	131°26.0'	82	2.31	0.56	2.20	0.0	98.0	2.0	0.0	50.0	3.0	
-3	54°25.0'	131°17.8'	91	2.56	0.60	2.50	0.0	96.6	3.4	0.0	28.4	3.0	
-4	53°34.3'	131°08.0'	73	2.11	0.63	2.18	0.0	97.7	2.3	0.0	42.1	27.0	
-5	53°31.0'	131°06.0'	40	-2.69	2.72	0.96	75.7	22.5	1.8	0.0	13.0	66.5	M
-6	53°31.0'	137°04.7'	44	-0.26	2.17	-0.22	41.1	56.3	2.6	0.0	21.6	78.5	M; gravel mostly shell
-7	53°31.0'	131°02.5'	44	-3.69	1.78	2.09	93.4	6.0	0.6	0.0	9.9	62.5	M
-8	53°31.0'	131°00.9'	48	-3.33	1.52	2.48	93.4	6.0	0.6	0.0	10.2	61.0	M
-9	53°31.0'	130°59.3'	59	0.37	2.61	-0.92	27.8	70.9	1.3	0.0	52.7	12.5	M
-10	53°31.0'	130°57.7'	70	0.47	2.25	-1.13	25.2	73.8	1.0	0.0	72.1	3.5	M
-11	53°31.0'	130°55.8'	81	0.79	2.20	-1.37	19.0	79.7	1.3	0.0	63.4	3.0	M
-12	53°31.0'	130°54.0'	90	1.84	0.66	1.73	0.0	98.3	1.7	0.0	58.1	<2.0	M
-13	53°30.9'	130°52.3'	93	2.17	0.53	1.91	0.0	98.7	1.3	0.0	76.1	<2.0	
-14	53°31.0'	130°51.1'	95	0.82	2.47	-1.06	24.8	73.3	1.9	0.0	39.2	2.5	M
-15	53°31.0'	130°49.2'	99	2.31	0.60	1.60	0.0	98.0	2.0	0.0	48.4	<2.0	
-16	53°31.0'	130°47.4'	112	2.31	0.71	0.82	0.0	97.7	2.3	0.0	42.9	<2.0	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Location Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR79B-17	52°54.0'	130°24.1'	147	1.13	1.12	-0.29	5.1	92.4	2.5	0.0	37.3	<1.0	M
-18	52°53.8'	130°26.0'	128	2.12	1.66	1.76	2.7	91.3	4.3	1.7	15.4	<1.0	M
-19	52°54.0'	130°32.2'	110	2.50	1.89	2.94	0.0	87.6	9.6	2.8	12.3	1.6	M
-20	52°54.0'	130°36.6'	94	2.78	1.60	2.48	3.2	83.8	10.7	2.3	6.4	2.5	M
-21	52°54.0'	130°39.4'	73	-	-	-	-	-	-	-	-	-	trace of shell
-22	52°54.0'	130°45.0'	55	0.24	2.09	-0.07	41.8	55.5	2.7	0.0	20.3	65.5	M; gravel mostly shell
-23	52°40.0'	131°00.0'	70	-4.09	1.39	4.21	96.5	2.8	0.7	0.0	4.0	-	M
-24	52°40.0'	131°00.0'	71	-2.88	2.05	1.87	86.4	12.4	1.2	0.0	10.6	51.0	M
-25	52°40.0'	130°58.2'	77	-0.98	3.10	-0.15	46.6	50.0	3.4	0.0	14.7	14.0	M
-26	52°40.0'	130°56.5'	84	-2.99	2.59	1.69	82.7	15.2	2.1	0.0	7.3	45.0	M
-27	52°40.0'	130°54.7'	98	-1.97	3.15	0.67	65.8	30.7	3.5	0.0	8.8	25.0	M
-28	52°40.0'	130°50.9'	97	-0.09	2.90	-0.67	33.0	65.1	1.9	0.0	34.8	1.0	M
-29	52°40.0'	130°51.2'	101	-0.53	2.78	-0.29	44.0	52.5	3.5	0.0	14.9	4.0	M
-30	52°40.0'	130°48.8'	104	2.09	0.62	1.39	0.0	98.3	1.7	0.0	58.5	<1.0	M
-31	52°40.0'	130°46.9'	110	2.33	0.65	1.63	0.0	97.3	2.7	0.0	36.3	<1.0	
-32	52°40.0'	130°44.9'	114	2.17	0.61	2.06	0.0	97.9	2.1	0.0	46.8	<1.0	

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Location Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR79B-33a	52°40.0'	130°43.8	130	2.56	1.09	4.82	0.0	95.6	3.5	0.9	21.6	<1.0	M
-33b	52°40.0'	130°43.8'	130	2.61	0.90	0.70	0.0	94.3	5.7	0.0	16.6	<1.0	
-34	52°58.0'	131°00.0'	30	1.38	0.80	-0.73	2.7	96.5	0.8	0.0	121.6	9.0	M; gravel mostly shell
-35	52°58.0'	130°58.1'	29	0.37	1.58	-1.05	20.6	78.6	0.8	0.0	101.8	21.5	M; gravel mostly shell
-36	52°58.0'	130°55.6'	33	1.57	0.74	-0.30	2.8	96.2	1.0	0.0	93.5	17.6	M
-37	52°58.0'	130°53.7'	35	1.06	1.15	-1.41	8.0	91.0	1.0	0.0	89.5	21.0	M; gravel mostly shell
-38	52°58.0'	130°51.7'	37	1.61	0.71	-0.08	0.9	97.8	1.3	0.0	75.5	6.5	M
-39	52°58.0'	130°49.7'	55	1.66	0.65	0.56	1.1	97.9	1.0	0.0	102.7	17.5	M; gravel mostly shell
-40	52°58.0'	130°47.4'	62	2.03	0.53	2.48	0.0	98.8	1.2	0.0	81.6	9.5	
-41	52°58.0'	130°45.3'	64	1.71	0.60	1.45	0.5	98.4	1.1	0.0	93.9	9.0	M; gravel mostly shell
-42	52°56.0'	130°45.0'	48	-0.91	2.08	-0.03	49.6	49.4	1.0	0.0	48.5	23.0	M
-43	52°56.0'	130°47.5'	42	-2.33	2.32	0.68	70.3	29.4	0.3	0.0	105.0	1.5	M
-44	52°56.0'	130°49.6'	46	1.41	0.86	-1.91	2.6	96.5	0.9	0.0	103.6	9.5	M; gravel mostly shell
-45	52°56.0'	130°51.8'	37	-0.69	1.39	0.75	58.0	41.3	0.7	0.0	58.0	14.0	M
-46	52°56.0'	130°54.0'	31	-0.70	1.74	0.39	56.8	42.8	0.4	0.0	97.0	5.0	M
-47	52°56.0'	130°56.0'	31	-1.23	2.47	-0.04	51.2	48.1	0.7	0.0	73.8	20.0	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR79B-48	52°56.0'	130°58.2'	29	-0.97	2.76	-0.27	44.7	54.7	0.6	0.0	93.6	34.5	M; gravel mostly shell
-49	52°56.0'	131°00.0'	31	1.37	0.70	0.34	2.4	96.8	0.8	0.0	115.7	21.5	M; gravel mostly shell
-50	53°20.0'	130°54.0'	123	0.23	2.56	-0.50	32.4	64.1	3.5	0.0	18.3	3.5	M
-51	53°20.0'	130°55.6'	97	1.24	1.25	-1.52	12.1	86.4	1.5	0.0	58.2	<1.0	M
-52	53°20.0'	130°57.6'	88	1.75	0.66	2.46	0.0	98.0	2.0	0.0	49.2	<2.0	M
-53	53°20.0'	130°59.7'	81	2.04	0.56	1.86	0.0	98.7	1.3	0.0	78.4	<2.0	
-54	53°20.0'	131°01.4'	71	1.93	0.56	2.49	0.0	98.6	1.4	0.0	72.5	<2.0	
-55	53°20.0'	131°03.5'	55	-0.61	2.96	-0.45	36.4	61.5	2.1	0.0	29.6	5.0	M
-56	53°20.0'	131°05.6'	44	1.57	0.66	1.20	0.7	98.3	1.0	0.0	94.0	6.5	M
-57	53°20.0'	131°07.8'	44	0.79	1.87	-1.07	19.5	79.3	1.2	0.0	64.0	9.5	M
-58	53°20.0'	131°10.0'	20	-1.60	3.09	0.05	52.3	47.0	0.7	0.0	65.8	6.0	M
-59	53°25.0'	131°09.0'	27	-4.32	1.67	1.96	94.9	5.1	0.0	0.0	442.3	80.5	M
-60	53°25.0'	131°06.5'	33	-4.54	2.17	1.77	91.4	8.6	0.0	0.0	908.4	58.0	M
-61	53°25.0'	131°04.6'	46	1.82	1.69	3.24	2.9	84.3	11.4	1.4	6.6	2.5	M
-62	63°25.0'	131°02.6'	57	1.81	0.69	2.27	0.0	97.9	2.1	0.0	45.9	<2.0	
-63	53°25.0'	131°00.2'	77	2.46	0.47	2.20	0.0	98.7	1.3	0.0	77.1	<2.0	

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR79B-64	53°25.0'	130°57.8'	98	2.34	0.68	0.76	0.0	97.7	2.3	0.0	42.8	<2.0	M
-65	53°25.0'	130°55.6'	108	2.28	0.64	1.70	0.0	97.5	2.5	0.0	39.4	<2.0	M
-66	53°25.0'	139°53.6'	128	-1.16	3.56	0.10	51.7	45.8	2.5	0.0	18.5	3.0	M
-67	53°25.0'	130°51.6'	128	-2.51	3.67	1.40	74.4	20.5	3.4	1.7	4.0	8.5	M
-68	53°25.0'	130°49.8'	155	3.50	1.90	3.16	0.0	84.8	10.0	5.2	5.6	<2.0	M
-69	53°15.0'	130°48.5'	150	3.96	2.02	2.71	0.0	74.7	18.7	6.6	3.0	<2.0	M
-70	53°15.0'	130°50.5'	122	1.96	0.84	1.70	0.1	95.9	4.0	0.0	24.2	<2.0	M
-71	53°15.0'	130°52.2'	121	2.41	0.71	1.94	0.0	95.7	4.3	0.0	22.3	<2.0	
-72	53°15.0'	130°53.7'	112	2.50	0.69	1.66	0.0	95.8	4.2	0.0	22.8	2.5	M
-73	53°15.0'	130°55.7'	97	2.50	0.54	1.82	0.0	98.0	2.0	0.0	49.0	<2.0	
-74	53°15.0'	130°57.5'	90	-1.63	3.25	0.29	57.2	42.1	0.7	0.0	62.3	<2.0	M
-75	53°15.0'	130°59.4'	82	-3.15	3.18	1.13	75.1	23.4	1.5	0.0	15.3	5.5	M
-76	53°15.0'	131°01.3	68	0.79	2.51	-1.14	23.0	74.7	2.3	0.0	33.5	4.5	M
-77	53°15.0'	131°03.3'	42	1.41	1.00	-0.99	4.7	93.8	1.5	0.0	64.3	21.5	M; gravel mostly shell
-78	53°15.0'	131°05.4'	40	-0.09	1.61	-0.28	32.6	66.5	0.9	0.0	76.5	15.0	M
-79	53°15.0'	131°07.3'	38	0.01	2.04	-0.91	28.3	71.1	0.6	0.0	113.2	24.2	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR79B-80	53°10.0'	131°06.7'	38	1.19	1.10	-1.15	5.6	92.7	1.7	0.0	56.0	32.5	M
-81	53°10.0'	131°05.0'	44	-1.16	2.55	-0.06	49.8	49.5	0.7	0.0	68.5	5.5	M
-82	53°10.0'	131°03.3'	46	1.57	2.50	-0.25	20.4	56.0	23.6	0.0	2.4	17.5	M
-83	53°10.0'	131°01.7'	46	-	-	-	-	-	-	-	-	-	trace of shell
-84	53°10.0'	131°00.0'	51	0.53	1.15	-0.41	13.0	86.4	0.6	0.0	136.8	13.0	M
-85	53°10.0'	130°58.3'	62	1.70	1.98	-0.69	11.7	75.5	12.8	0.0	5.9	5.5	M
-86	53°10.0'	130°56.5'	82	0.59	2.76	-0.93	28.6	69.1	2.3	0.0	30.9	4.0	M
-87	53°10.0'	130°54.9'	93	2.34	0.56	2.71	0.0	97.5	2.5	0.0	38.6	<2.0	
-88	53°10.0'	130°53.0'	106	0.20	2.37	-0.21	38.7	58.6	2.7	0.0	21.5	3.0	M
-89	53°10.0'	130°51.3'	117	-1.13	3.58	-0.27	43.3	54.7	2.0	0.0	28.1	3.0	M
-90	53°10.0'	130°49.5'	124	-3.51	1.62	3.40	94.9	3.9	1.2	0.0	3.2	19.0	M
-91	53°10.0'	130°47.8'	124	2.65	1.79	3.17	0.0	88.7	8.3	3.0	11.2	<2.0	M
-92	53°10.0'	130°46.1'	145	3.50	1.29	4.08	0.0	87.2	10.2	2.6	6.9	2.5	M
-93	52°50.0'	131°00.0'	29	-2.99	1.96	0.92	85.2	14.8	0.0	0.0	439.1	38.5	M
-94	52°50.0'	130°54.7'	46	0.10	2.04	-1.24	23.1	76.1	0.8	0.0	101.7	39.5	M
-95	52°50.0'	130°49.7'	59	-0.06	1.52	-0.27	31.2	68.2	0.6	0.0	112.3	<2.0	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR79B-96	52°50.0'	130°44.6'	73	2.16	0.63	1.71	0.0	98.1	1.9	0.0	50.6	<2.0	
-97	52°50.0'	130°40.0'	93	2.96	0.62	0.35	0.1	96.2	3.7	0.0	26.0	1.5	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
VEC81B-1	52°42.0'	130°46.5'	106	2.26	0.64	1.79	0.0	97.4	2.6	0.0	37.1	<2.0	
-2a	52°42.0'	130°43.5'	119	1.07	2.39	-0.73	24.0	69.8	6.2	0.0	11.3	<2.0	M
-2b	52°42.0'	130°43.5'	119	-0.55	3.27	0.01	46.8	48.1	5.1	0.0	9.4	<2.0	M
-3	52°42.0'	130°40.0'	135	2.98	1.79	2.77	0.0	77.4	19.9	2.7	3.4	<2.0	M; wood fragment
-4	52°42.0'	130°36.6'	143	4.17	1.80	3.18	0.0	62.1	32.7	5.2	1.6	<2.0	M
-5	52°42.0'	130°33.5'	143	1.24	3.78	0.01	27.3	47.5	21.7	3.5	1.9	7.0	M
-6a	52°44.0'	130°33.2'	140	-1.85	3.24	0.98	68.0	22.8	9.2	0.0	2.5	<2.0	M
-6b	52°44.0'	130°33.2'	140	1.54	1.78	0.65	6.4	79.9	13.7	0.0	5.8	<2.0	M
-7a	52°44.0'	130°36.6'	130	-2.76	2.02	2.28	85.6	12.7	1.7	0.0	7.5	-	M
-7b	52°44.0'	130°36.6'	130	-3.62	3.16	1.53	82.7	11.9	5.4	0.0	2.2	6.0	M
-8	52°44.0'	130°40.0'	124	1.05	3.48	-0.30	25.5	59.5	13.1	1.9	4.0	<2.0	M
-9	52°44.0'	130°43.2'	110	-2.01	3.56	1.05	65.5	29.2	4.0	1.3	5.5	3.5	M
-10	52°44.0'	130°46.5'	98	-0.41	3.47	0.99	57.6	33.0	6.5	2.9	3.5	17.0	M
-11	52°44.0'	130°49.8'	90	1.31	1.49	-2.28	6.1	92.7	1.2	0.0	76.1	<2.0	M
-12	52°44.0'	130°53.0'	80	0.22	3.10	0.67	36.9	56.9	3.7	2.5	9.2	27.0	M
-13	52°44.0'	130°56.5'	61	-1.58	2.26	0.23	62.8	36.4	0.8	0.0	48.0	8.0	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
VEC81B-28	52°46.0'	130°56.5'	55	-0.80	2.10	-0.15	46.3	52.9	0.8	0.0	66.2	18.0	M
-29	52°46.0'	131°00.0'	41	-1.70	2.06	0.28	65.8	33.3	0.9	0.0	36.8	46.5	M; gravel mostly shell
-30	52°46.0'	131°03.1'	45	0.18	1.73	-0.79	26.4	71.9	1.7	0.0	43.7	63.0	M; gravel mostly shell
-31	52°34.0'	131°13.0'	160	3.89	1.63	3.68	0.0	83.9	11.5	4.6	5.2	<2.0	M
-32	52°34.0'	131°09.5'	155	2.22	0.67	2.24	0.0	96.7	3.3	0.0	29.2	<2.0	
-33	52°34.0'	131°06.3'	138	2.07	0.60	2.63	0.0	97.7	2.3	0.0	41.7	<2.0	
-34	52°34.0'	131°03.0'	115	1.49	2.03	0.81	9.6	85.5	3.3	1.6	17.4	10.5	M
-35	52°34.0'	131°00.0'	129	0.49	2.95	-0.44	32.5	61.8	5.7	0.0	10.8	8.0	M
-36	52°34.0'	130°56.5'	145	2.28	0.48	3.81	0.0	97.9	2.1	0.0	46.6	2.0	
-37A	52°36.0'	130°56.5'	95	-1.55	3.11	0.43	61.9	33.7	4.4	0.0	7.6	19.0	M
-37B	52°36.0'	130°56.5'	95	-2.65	3.02	1.18	74.9	21.4	3.7	0.0	5.8	26.5	M
-38	52°38.0'	130°56.5'	94	-1.83	3.61	0.31	57.6	38.6	3.8	0.0	10.1	39.0	M
-39	52°38.0'	130°53.0'	102	-1.26	3.19	0.27	54.8	41.1	4.1	0.0	9.9	27.2	M
-40A	52°36.0'	130°53.0'	105	-2.63	3.12	1.10	75.7	19.7	4.6	0.0	4.3	26.0	M
-40B	52°36.0'	130°53.0'	105	-0.01	3.01	-0.40	35.5	60.5	4.0	0.0	15.0	28.0	M
-41	52°34.0'	130°53.0'	146	2.46	0.59	2.69	0.0	96.7	3.3	0.0	29.2	<2.0	

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
VEC81B-42	52°34.0'	130°49.8'	160	0.40	2.32	-0.75	25.1	71.6	3.3	0.0	21.8	<2.0	M
-43	52°36.0'	130°49.8'	119	2.29	0.62	1.77	0.0	97.8	2.2	0.0	44.3	<2.0	
-44	52°38.0'	130°49.8'	111	1.60	0.73	1.43	0.5	97.1	2.4	0.0	40.1	4.0	M
-45	52°38.0'	130°46.5'	123	2.42	1.60	3.98	0.0	93.8	3.9	2.3	15.1	<2.0	M
-46	52°36.0'	130°46.5'	123	2.99	1.31	3.15	0.0	91.7	6.8	1.5	11.1	<2.0	M
-47	52°34.0'	130°46.5'	154	3.32	1.26	4.49	0.0	90.0	8.1	1.9	9.0	<2.0	M
-48	52°34.0'	130°43.2'	133	3.00	1.31	4.38	0.0	90.6	7.6	1.8	9.6	<2.0	M
-49	52°36.0'	130°43.2'	133	2.24	1.81	2.79	0.0	88.5	9.1	2.4	7.7	<2.0	M
-50	52°38.0'	130°43.2'	134	-	-	-	-	-	-	-	-	-	trace of sand
-51	52°40.0'	130°40.0'	140	3.11	1.78	2.45	0.0	77.0	20.5	2.5	3.3	<2.0	M
-52	52°38.0'	130°40.0'	141	3.99	1.72	3.44	0.0	76.0	18.9	5.1	3.2	<2.0	M
-53	52°36.0'	130°40.0'	136	3.00	1.11	4.64	0.0	91.6	7.3	1.1	10.9	<2.0	M
-54	52°34.0'	130°40.0'	138	2.91	1.21	4.61	0.0	91.0	7.6	1.4	10.1	<2.0	M
-55	52°36.0'	130°36.5'	146	3.32	2.01	2.61	0.0	79.4	16.3	4.3	3.9	<2.0	M
-56	52°38.0'	130°36.5'	144	2.16	2.06	1.73	2.1	81.3	14.3	2.3	4.9	<2.0	M
-57	52°40.0'	130°36.5'	150	2.65	1.87	2.48	0.5	81.1	15.6	2.8	4.4	<2.0	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
VEC81B-73	53°02.0'	131°09.5'	31	-1.13	2.09	0.18	57.8	41.6	0.6	0.0	66.6	33.0	M
-74	53°04.0'	131°09.5'	37	-2.89	2.96	0.89	72.0	27.1	0.9	0.0	30.6	45.5	M
-75	53°04.0'	131°06.3'	33	1.93	0.58	2.92	0.0	97.9	2.1	0.0	46.7	14.5	
-76	53°02.0'	131°06.3'	32	0.05	1.70	-0.40	31.6	67.3	1.1	0.0	63.2	53.0	M
-77	53°00.0'	131°06.2'	31	-0.35	1.86	-0.40	35.9	63.6	0.5	0.0	117.2	22.5	M
-78	52°58.0'	131°06.2'	30	-1.38	2.90	0.32	53.7	42.9	3.4	0.0	12.8	32.0	M
-79	52°56.0'	131°06.2'	32	-0.53	1.93	-0.37	37.1	62.3	0.6	0.0	97.2	24.0	M
-80	52°54.0'	131°06.3'	32	0.16	1.39	-0.77	23.2	76.0	0.8	0.0	100.6	46.3	M
-81	52°52.0'	131°06.3'	32	-1.94	1.73	0.69	75.5	24.0	0.5	0.0	46.7	45.0	M
-82	52°50.0'	131°06.2'	35	-3.01	1.98	0.56	86.0	13.8	0.2	0.0	67.2	41.5	M
-83	52°48.0'	131°06.2'	33	-1.79	2.21	0.19	59.2	40.7	0.1	0.0	525.6	71.0	M
-84	52°46.0'	131°06.3'	42	-2.62	2.77	0.82	71.7	27.2	1.1	0.0	25.7	72.0	M
-85	52°44.0'	131°06.3'	50	-2.89	2.84	0.54	72.3	27.6	0.1	0.0	368.0	45.5	M
-86	52°42.0'	131°06.1'	50	-3.67	3.15	0.92	76.0	23.0	1.0	0.0	23.8	27.0	M
-87	52°36.0'	131°13.0'	133	0.86	3.52	-0.28	29.9	62.4	5.9	1.8	8.1	<2.0	M
-88	52°38.2'	131°13.0'	110	-	-	-	-	-	-	-	-	-	trace of gravelly sand

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
VEC81B-120	53°02.1'	131°00.1'	37	1.78	0.79	-0.78	1.1	97.6	1.3	0.0	72.9	22.0	M
-121	53°04.0'	131°00.1'	50	2.42	0.53	2.43	0.0	97.8	2.2	0.0	45.2	10.0	
-122	53°04.0'	131°03.1'	49	2.29	0.52	2.18	0.0	98.3	1.7	0.0	58.3	23.5	
-123	53°02.0'	131°03.1'	36	0.66	1.37	-1.03	15.3	83.6	1.1	0.0	78.4	27.0	M
-124	53°00.0'	131°03.1'	32	1.39	0.57	1.95	0.3	98.7	1.0	0.0	96.9	18.5	M
-125A	52°58.0'	131°03.1'	37	0.81	1.12	-0.59	10.2	88.7	1.1	0.0	81.4	35.0	M
-125B	52°58.0'	131°03.1'	37	-2.57	2.56	1.27	76.6	21.6	1.8	0.0	12.3	52.5	M
-126	52°56.0'	131°03.1'	35	-0.57	1.79	-0.28	41.7	57.4	0.9	0.0	65.3	40.0	M
-127	52°52.0'	131°13.0'	28	-4.66	2.09	1.68	92.1	7.6	0.3	0.0	29.9	49.5	M
-128	52°54.0'	131°13.0'	30	-2.62	2.53	1.26	77.0	21.6	1.4	0.0	15.4	19.5	M
-129	52°56.0'	131°13.0'	29	-2.80	2.05	0.89	81.3	18.1	0.6	0.0	28.2	38.5	M
-130	52°58.0'	131°13.0'	38	-2.03	2.18	0.85	71.6	27.2	1.2	0.0	22.6	51.5	M
-131	52°00.0'	131°13.0'	28	-3.31	1.92	1.82	88.2	10.8	1.0	0.0	11.0	48.0	M
-132	53°02.0'	131°13.0'	34	0.02	1.88	-0.39	33.5	64.3	2.2	0.0	29.3	73.0	M; gravel mostly shell
-133	53°04.0'	131°13.0'	36	0.12	1.62	-0.49	26.6	71.6	1.8	0.0	39.1	72.0	M; gravel mostly shell
-134	53°04.0'	131°16.0'	36	-0.67	2.20	-0.01	45.2	51.5	3.3	0.0	15.5	63.0	M; gravel mostly shell

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Location Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
VEC81B-150	53°02.0'	131°19.0'	30	-3.02	3.24	0.63	64.9	33.7	1.4	0.0	24.0	87.5	M
-151	53°04.1'	131°19.8'	32	-3.27	3.15	0.67	72.0	26.4	1.6	0.0	16.8	56.0	M
-152	53°04.0'	131°23.0'	35	-6.17	0.62	10.21	99.6	0.3	0.1	0.0	5.4	-	M
-153	53°02.1'	131°23.1'	30	-0.17	1.90	-0.20	38.2	59.7	2.1	0.0	28.7	83.5	M; gravel mostly shell
-154	53°00.0'	131°23.0'	24	-4.84	2.14	2.07	90.2	9.6	0.2	0.0	39.9	57.5	M
-155	52°58.0'	131°23.0'	24	-	-	-	-	-	-	-	-	-	trace of shell, suspected bedrock
-156	52°56.0'	131°23.0'	40	-1.55	2.47	0.30	69.3	27.6	3.1	0.0	9.1	93.5	M; gravel mostly shell
-157	52°54.0'	131°23.0'	82	1.96	1.92	-1.68	9.1	85.9	5.0	0.0	17.2	17.0	M
-158	52°52.0'	131°23.0'	159	3.62	1.33	4.99	0.0	91.5	5.8	2.7	10.8	<2.0	M
-159	52°50.0'	131°23.0'	179	-0.69	3.71	0.58	53.9	39.6	4.3	2.2	6.1	12.5	M
-160	52°48.0'	131°23.0'	155	0.54	3.84	-0.03	38.4	55.1	4.5	2.0	8.5	6.5	M
-161	52°46.0'	131°23.0'	152	2.36	2.65	-0.31	13.9	77.1	6.5	2.5	8.6	4.5	M
-162	52°44.0'	131°23.0'	205	2.72	1.82	1.22	2.6	90.3	4.4	2.7	12.8	4.5	M; wood fragments
-163	52°44.0'	131°26.4'	145	-0.81	4.57	0.58	54.9	35.1	6.5	3.5	3.5	16.0	M
-164	52°46.0'	131°26.4'	150	0.51	4.06	0.69	46.9	37.9	9.7	5.5	2.5	11.5	M
-165	52°48.0'	131°26.4'	95	2.53	2.73	-0.92	14.9	43.2	41.9	0.0	1.0	52.0	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Location Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
VEC81B-166	52°50.0'	131°26.4'	210	-4.45	3.03	3.24	90.7	5.4	2.5	1.4	3.8	12.5	M
-167	52°52.0'	131°26.4'	140	-1.51	2.18	1.52	77.2	18.1	4.7	0.0	3.9	19.0	M
-168B	52°54.0'	131°26.4'	95	1.99	3.23	1.38	15.9	67.3	9.0	7.8	4.0	62.0	M; glauconitic
-169	52°54.0'	131°30.0'	190	-2.89	4.19	1.84	79.4	12.6	4.0	4.0	8.0	15.5	M; glauconitic
-170	52°54.0'	131°33.0'	48	2.57	3.07	1.45	7.3	74.2	9.7	8.8	4.0	60.0	M
-171	52°56.0'	131°35.5'	51	0.10	2.22	0.22	40.8	52.2	7.0	0.0	7.5	94.0	M; gravel mostly shell
-172	52°56.0'	131°33.0'	80	0.85	3.02	0.86	33.4	59.7	3.5	3.4	8.6	33.0	M
-173A	52°58.0'	131°33.0'	48	-	-	-	-	-	-	-	-	92.0	M; gravel mostly shell
-173B	52°58.0'	131°33.0'	48	-4.41	2.59	2.05	83.4	12.9	1.7	0.0	7.7	-	M
-174	53°00.0'	131°33.0'	20	-4.94	2.75	1.78	84.2	15.2	0.6	0.0	27.7	82.0	M
-175	53°02.2'	131°32.8'	33	-0.61	2.09	0.25	52.9	44.2	2.9	0.0	15.4	98.0	M; gravel mostly shell
-176	53°04.0'	131°36.0'	25	-0.16	1.77	0.06	40.9	56.7	2.4	0.0	23.2	97.5	M; gravel mostly shell
-177	53°04.0'	131°33.0'	28	-	-	-	-	-	-	-	-	87.5	M
-178	53°04.0'	131°30.0'	28	-1.18	2.58	-0.17	49.4	48.7	1.9	0.0	26.3	95.5	M; gravel mostly shell
-179	53°02.1'	131°30.1'	22	-2.80	3.04	0.59	72.5	25.2	2.3	0.0	11.0	93.5	M; gravel mostly shell
-180	53°00.1'	131°30.0'	23	-2.12	3.22	0.18	58.1	40.7	1.2	0.0	34.9	52.0	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Location Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
VEC81B-181	52°58.0'	131°30.0'	49	1.11	2.25	-1.46	15.1	81.8	3.1	0.0	26.0	50.0	M
-182	52°56.0'	131°30.0'	53	-	-	-	-	-	-	-	-	86.5	almost entirely biogenic sample
-183	52°56.0'	131°26.3'	67	1.55	1.88	-1.72	7.8	87.1	5.1	0.0	17.0	75.5	M
-184	52°58.0'	131°26.4'	36	-	-	-	-	-	-	-	-	50.5	M; gravel mostly shell
-185	53°00.0'	131°26.4'	14	-4.05	1.47	3.06	95.1	4.3	0.6	0.0	7.8	47.0	M
-186	53°02.1'	131°26.4'	16	-3.26	2.38	0.99	81.3	18.4	0.3	0.0	56.3	45.0	M
-187	53°04.0'	131°26.4'	29	-0.93	2.20	-0.03	50.1	49.0	0.9	0.0	53.9	61.0	M
-188	52°59.0'	130°56.5'	29	-1.11	2.01	-0.18	55.0	44.6	0.4	0.0	116.9	8.0	M
-189	52°52.0'	130°56.5'	35	0.57	1.88	-1.26	19.8	79.3	0.9	0.0	91.0	29.0	M
-190	52°50.0'	130°56.5'	40	-1.14	2.05	0.44	60.2	38.9	0.9	0.0	44.3	27.5	M
-191	52°48.0'	130°56.5'	45	-1.96	2.43	0.03	61.8	37.3	0.9	0.0	43.6	30.5	M
-192	52°48.0'	130°53.2'	56	1.36	0.82	-0.03	2.2	96.7	1.1	0.0	89.4	7.0	M
-193	52°50.0'	130°53.1'	49	1.00	1.01	-1.46	6.7	92.4	0.9	0.0	98.4	7.5	M; gravel mostly shell
-194A	52°52.1'	130°53.1'	40	-0.31	1.45	0.12	24.4	73.8	1.8	0.0	41.6	36.0	M
-194B	52°52.1'	130°53.1'	40	-3.66	2.69	1.51	80.4	18.8	0.8	0.0	23.3	39.0	M
-195	52°54.0'	130°53.1'	38	1.70	0.82	-0.06	1.5	96.5	2.0	0.0	48.6	19.5	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
VEC81B-196	52°54.0'	130°49.8'	42	0.51	2.18	-1.21	21.6	77.4	1.0	0.0	75.3	14.5	M
-197	52°52.1'	130°49.7'	50	1.39	1.88	-0.34	11.9	77.5	10.6	0.0	7.3	23.0	M
-198	52°50.1'	130°49.8'	65	1.17	0.92	0.0	4.1	95.0	0.9	0.0	102.2	2.0	M
-199	52°48.0'	130°49.7'	72	1.67	0.66	1.46	0.1	99.0	0.9	0.0	108.6	<2.0	M
-200	52°50.0'	130°46.5'	70	2.61	0.47	1.83	0.0	98.8	1.2	0.0	85.6	<2.0	
-201	52°52.0'	130°46.5'	52	1.37	1.40	-1.64	8.0	90.1	1.9	0.0	48.5	20.0	M
-202	52°54.0'	130°46.5'	50	-2.13	2.09	0.61	74.5	24.5	1.0	0.0	24.3	49.0	M
-203	52°52.0'	130°43.1'	72	-0.97	3.55	-0.02	47.2	49.5	3.3	0.0	14.8	27.5	M
-204	52°52.0'	130°39.8'	86	1.72	2.18	-1.72	13.1	83.6	3.3	0.0	25.5	5.0	M
-205	52°52.0'	130°36.5'	109	3.62	1.15	5.37	0.0	85.9	12.5	1.6	6.1	<2.0	M
-206	52°52.0'	130°33.1'	119	2.74	1.76	2.74	0.0	84.0	13.3	2.7	5.3	<2.0	M
-207	52°50.0'	130°33.1'	127	2.83	1.77	2.44	0.0	80.4	17.2	2.4	4.1	<2.0	M
-208	52°50.0'	130°36.5'	119	3.69	1.26	3.26	0.0	75.2	22.9	1.9	24.8	-	M
-209	52°50.0'	130°39.8'	102	-	-	-	-	-	-	-	-	-	trace of shell - suspected bedrock; wood
-210	52°50.0'	130°43.1'	85	2.15	0.77	-0.24	0.5	97.9	1.6	0.0	61.3	<2.0	M
-211	52°59.0'	131°00.0'	30	-1.47	1.97	0.52	68.2	31.2	0.6	0.0	49.8	20.0	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Location Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
VEC81B-212A	52°59.0'	130°58.0'	34	1.35	1.64	-2.19	9.3	89.5	1.2	0.0	76.6	21.0	M
-212B	52 59.0'	130°58.0'	34	0.43	2.14	-1.09	24.0	75.2	0.8	0.0	101.1	26.5	M
-213	52°59.0'	130°55.5'	29	-1.49	2.53	0.67	64.6	32.9	2.5	0.0	13.0	53.5	M
-214	52°57.0'	130°55.7'	33	-1.90	2.09	0.63	64.7	34.3	1.0	0.0	32.9	10.0	M
-215	52°57.0'	130°58.1'	32	-1.12	1.45	1.37	71.2	28.1	0.7	0.0	38.2	19.0	M
-216	52°57.0'	131°00.0'	34	1.36	0.99	-1.21	5.2	93.7	1.1	0.0	85.9	31.0	M
-217	52°55.0'	131°00.0'	33	-0.47	2.24	-0.09	41.5	56.1	2.4	0.0	23.5	33.5	M
-218	52°55.0'	130°58.0'	29	0.14	2.06	-0.93	24.4	74.4	0.9	0.0	82.2	21.0	M
-219	52°54.9'	130°55.5'	35	-1.44	1.91	0.48	63.7	35.8	0.5	0.0	69.9	17.5	M
-220	52°41.8'	131°19.4'	108	-3.85	1.78	2.95	93.3	5.7	1.0	0.0	5.6	15.0	M
-221	52°42.0'	131°23.0'	100	0.20	4.63	0.74	47.3	33.8	11.1	7.8	1.8	40.0	M
-222	52°40.0'	131°23.0'	95	1.44	3.29	0.11	18.5	72.0	5.5	4.0	7.6	68.5	M
-223	52°40.0'	131°19.4'	120	2.39	1.60	4.39	0.0	94.7	2.8	2.5	17.9	3.5	M
-224	52°38.0'	131°23.2'	81	1.33	4.13	0.02	28.8	53.6	12.3	5.3	3.0	25.5	M
-225	52°38.0'	131°19.2'	132	2.72	1.85	3.52	0.0	92.3	4.2	3.5	12.0	4.0	M
-226	52°36.0'	131°19.2'	128	3.35	1.73	4.05	0.0	91.6	4.4	4.0	10.9	<2.0	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Location Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR83A-01	53°55.0'	131°02.0'	37	-1.76	2.51	0.44	60.4	38.4	1.2	0.0	32.6	-	M
-02	53°55.0'	131°09.9'	26	-0.17	2.34	-0.16	39.7	57.8	2.5	0.0	23.1	-	M
-03	53°55.1'	131°22.3'	24	1.80	0.92	-2.24	3.1	95.8	1.1	0.0	90.4	-	M
-04	53°50.0'	131°21.8'	24	-2.87	2.49	1.32	80.0	18.8	1.2	0.0	16.3	-	M
-05	53°50.0'	131°11.4'	26	-1.01	2.12	0.39	55.6	42.7	1.7	0.0	26.0	-	M
-06	53°50.0'	131°03.4'	44	0.57	4.48	0.62	39.0	46.2	8.1	6.7	3.1	-	M
-07	53°39.2'	131°05.6'	38	-1.95	2.51	0.72	67.5	30.9	1.6	0.0	19.6	-	M
-08	53°25.0'	131°12.1'	29	0.71	1.04	-1.70	13.7	85.6	0.7	0.0	128.4	-	M
-09	53°25.0'	131°18.8'	26	1.19	0.74	-0.72	2.5	96.7	0.8	0.0	121.7	-	M
-10	53°25.0'	131°25.5'	24	-2.63	3.20	0.46	65.2	34.2	0.6	0.0	55.7	-	M
-11	53°25.0'	131°32.5'	22	1.26	0.83	0.08	2.0	96.6	1.4	0.0	70.8	-	M
-12	53°25.0'	131°39.3'	27	1.96	0.90	0.65	1.1	94.7	4.2	0.0	22.4	-	M
-13	53°20.0'	131°32.8'	38	2.35	0.67	2.39	0.0	96.0	4.0	0.0	24.1	-	
-14A	53°20.0'	131°25.8'	29	-4.32	2.89	1.72	84.0	15.2	0.8	0.0	18.9	-	M
-14B	53°20.0'	131°25.8'	29	0.83	1.38	-0.99	13.9	84.6	1.5	0.0	58.3	-	M
-15	53°20.0'	131°19.0'	29	-0.30	1.83	-0.40	38.6	60.6	0.8	0.0	76.4	-	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Location Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR83A-16	53°20.0'	131°12.2'	31	0.83	2.21	-1.54	17.9	80.2	1.9	0.0	41.6	-	M
-17	53°20.0'	131°05.6'	51	-1.31	3.19	0.08	52.3	44.9	2.8	0.0	16.2	-	M
-18	53°15.0'	131°07.1'	40	-0.42	1.82	-0.41	37.9	61.4	0.7	0.0	86.3	-	M
-19	53°15.0'	131°13.6'	40	-0.82	2.64	-0.16	45.5	53.0	1.5	0.0	36.1	-	M
-20	53°15.0'	131°20.7'	35	0.77	1.20	-0.58	12.6	85.9	1.5	0.0	56.5	-	M
-21	53°15.0'	131°27.5'	26	0.06	1.83	-0.95	25.2	74.0	0.8	0.0	89.5	-	M
-22A	53°10.0'	131°33.0'	20	0.51	1.42	0.16	20.4	76.6	3.0	0.0	26.0	-	M
-22B	53°10.0'	131°33.0'	20	-2.41	2.15	1.02	78.7	19.9	1.4	0.0	14.3	-	M
-23	53°10.0'	131°26.0'	27	-2.08	2.58	0.26	62.7	36.4	0.9	0.0	40.9	-	M
-24	53°10.0'	131°19.3'	27	-0.59	2.18	-0.84	37.4	61.7	0.9	0.0	69.2	-	M
-25	53°10.0'	131°12.1'	37	0.68	1.27	-1.27	12.8	86.0	1.2	0.0	74.8	-	M
-26	53°10.0'	131°05.0'	42	-1.18	1.46	0.87	63.7	35.6	0.7	0.0	54.8	-	M
-27	53°05.0'	131°07.0'	37	1.81	0.56	0.10	0.6	98.6	0.8	0.0	122.2	-	M
-28	53°05.0'	131°14.2'	31	1.43	1.45	-0.42	6.2	88.3	5.5	0.0	16.1	-	M
-29	53°05.0'	131°21.0'	26	0.07	1.64	-0.28	30.3	67.7	2.0	0.0	34.8	-	M
-30	53°05.0'	131°28.0'	26	0.29	1.46	-0.23	25.7	75.2	2.1	0.0	34.3	-	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR83A-31	53°00.0'	131°20.1'	20	-4.07	2.37	1.42	87.3	11.9	0.8	0.0	15.9	-	M
-32	53°00.0'	131°15.0'	24	-1.98	2.80	0.11	59.9	38.2	0.9	0.0	43.1	-	M
-33	53°00.0'	131°10.0'	27	-1.32	1.98	0.07	59.3	40.0	0.7	0.0	57.4	-	M
-34	53°00.0'	131°05.0'	24	-0.68	2.09	-0.37	43.3	56.1	0.6	0.0	92.5	-	M
-35	53°00.0'	131°00.0'	29	1.42	0.85	-1.75	3.5	95.5	1.0	0.0	97.5	-	M
-36	53°00.0'	130°55.0'	37	0.22	1.86	-0.88	28.1	71.2	0.7	0.0	107.8	-	M
-37	53°00.0'	130°51.0'	64	2.59	0.51	2.00	0.0	98.1	1.9	0.0	50.6	-	

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR83B-01	54°25.0'	131°12.9'	132	2.02	2.75	-1.68	15.6	72.8	11.6	0.0	6.3	-	M
-02	54°24.9'	131°10.7'	108	3.73	2.14	2.70	0.0	79.5	13.8	6.7	3.9	-	M
-03	54°25.0'	131°07.1'	128	4.31	2.16	2.53	0.0	64.2	22.9	12.9	1.8	-	M
-04	54°25.1'	131°05.4'	124	1.95	3.39	0.56	18.4	61.4	15.1	5.1	3.1	-	M
-05	54°25.1'	131°04.0'	110	1.29	3.55	0.89	26.5	55.6	12.3	5.6	3.1	-	M
-06	54°25.2'	131°02.9'	91	1.57	1.45	0.53	5.7	85.0	9.3	0.0	9.1	-	M
-07	54°26.1'	131°03.3'	110	2.52	1.81	0.24	2.2	68.6	29.2	0.0	2.4	-	M
-08	54°26.3'	131°06.3'	145	3.64	0.80	0.92	0.0	75.9	24.1	0.0	3.2	-	
-09	54°26.2'	131°10.9'	148	3.31	0.75	1.45	0.0	85.4	14.6	0.0	5.9	-	
-10	52°57.0'	130°39.4'	70	1.02	0.76	0.07	3.2	95.9	0.9	0.0	102.8	-	M
-11	52°57.4'	130°38.8'	73	0.40	2.63	-1.03	24.4	73.7	1.9	0.0	38.7	-	M
-12	52°57.7'	130°38.0'	90	0.86	1.79	-1.04	18.8	79.6	1.6	0.0	49.9	-	M
-13	52°52.9'	130°37.6'	117	0.35	2.01	-0.39	31.1	66.7	2.2	0.0	30.6	-	M
-14	52°58.7'	130°36.7'	121	3.74	1.45	4.06	0.0	80.2	16.6	3.2	4.0	-	M
-15	52°59.5'	130°35.4'	95	2.24	1.63	-1.02	4.8	86.3	8.9	0.0	9.7	-	M
-16	53°00.0'	130°34.9'	91	1.34	2.57	-0.37	14.3	77.2	7.5	1.0	9.1	-	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR83B-17	53°00.3'	130°34.3'	91	-0.09	2.60	0.59	40.0	54.6	4.6	0.8	10.1	-	M
-18	53°01.0'	130°32.9'	91	0.99	0.86	-0.78	3.2	95.6	1.2	0.0	80.7	-	M
-19	53°01.4'	130°32.2'	112	1.33	0.86	-0.02	2.9	96.1	1.0	0.0	98.2	-	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Location Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR84A-01	54°22.1'	131°00.5'	38	-1.61	2.82	0.74	67.6	28.5	3.9	0.0	7.3	58.0	M
-02	54°22.0'	131°03.7'	81	0.99	3.19	0.43	26.4	63.5	7.0	3.1	6.4	20.0	M
-03	54°22.0'	131°07.0'	99	3.88	2.58	1.89	0.0	69.2	21.7	9.1	2.3	5.5	M
-04	54°22.0'	131°10.5'	70	3.47	1.62	3.85	0.0	85.2	11.5	3.3	5.8	5.5	M
-05	54°22.0'	131°13.8'	77	2.83	1.22	5.08	0.0	93.8	4.9	6.3	14.9	3.5	M
-06	54°22.0'	131°17.0'	124	3.69	2.19	2.71	0.0	77.7	15.8	6.5	3.5	3.5	M
-07	54°22.0'	131°20.5'	185	5.24	2.64	1.70	0.0	40.1	46.0	13.9	0.7	6.5	M
-08	54°22.0'	131°23.9'	210	6.27	2.73	1.06	0.0	17.9	59.8	22.3	0.2	8.0	M
-09	54°22.0'	131°27.3'	220	6.32	2.96	1.19	0.0	11.5	65.0	23.5	0.1	6.5	M
-10	54°19.9'	131°20.5'	150	5.47	2.68	1.44	0.0	33.3	50.1	16.6	0.5	7.0	M
-11	54°19.9'	131°24.0'	166	4.65	2.35	1.91	0.0	50.3	39.4	10.3	1.0	4.5	M
-12	54°19.9'	131°27.3'	181	4.41	1.94	2.48	0.0	52.0	41.5	6.5	1.1	3.5	M
-13	54°19.9'	131°30.8'	192	4.42	2.07	2.52	0.0	57.8	34.8	7.4	1.4	3.5	M
-14	54°19.9'	131°34.2'	194	4.18	2.19	2.40	0.0	70.1	21.5	8.4	2.4	3.0	M
-15	54°19.9'	131°37.5'	183	2.61	1.63	3.75	0.0	90.3	6.7	3.0	9.4	<2.0	M
-16	54°19.9'	131°41.0'	183	2.54	1.52	4.50	0.0	93.5	3.9	2.6	14.4	<2.0	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Location Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR84A-17	54°19.9'	131°44.4'	205	2.66	1.54	4.05	0.0	90.8	6.5	2.7	9.8	<2.0	M
-18	54°19.9'	131°47.8'	209	3.40	1.73	3.25	0.0	82.1	14.0	3.9	4.6	<2.0	M
-19	54°19.9'	131°51.0'	212	2.94	2.16	2.91	0.0	87.3	6.9	5.8	6.9	<2.0	M
-20	54°22.0'	131°51.0'	240	3.10	2.32	3.16	0.0	90.1	3.3	6.6	9.1	<2.0	M
-21	54°22.0'	131°47.5'	245	2.55	1.46	4.29	0.0	93.3	4.3	2.4	14.0	<2.0	M
-22	54°22.0'	131°44.6'	241	3.63	2.15	2.69	0.0	81.1	12.1	6.8	4.3	<2.0	M
-23	54°22.6'	131°41.0'	234	2.41	3.07	0.32	10.7	76.0	7.5	5.8	5.7	<2.0	M
-24	54°22.3'	131°37.3'	220	1.84	0.98	1.23	1.6	92.8	5.6	0.0	16.5	<2.0	M
-25	54°21.9'	131°34.2'	227	3.90	2.42	2.14	0.0	71.5	19.7	8.8	2.5	2.5	M
-26	54°21.9'	131°30.9'	230	7.20	2.93	0.58	0.0	10.1	53.9	36.0	0.1	-	M
-27	54°23.8'	131°30.9'	258	7.17	2.97	0.63	0.0	9.6	55.3	35.1	0.1	-	M
-28	54°23.9'	131°34.2'	258	4.41	2.78	1.59	0.0	58.2	29.3	12.5	1.4	2.5	M
-29	54°23.9'	131°37.5'	267	3.56	2.22	2.52	0.0	73.3	20.8	5.9	2.8	<2.0	M
-30	54°23.9'	131°41.0'	285	2.77	3.71	-0.18	14.7	58.2	19.5	7.6	2.2	<2.0	M
-31	54°24.1'	131°44.6'	278	3.31	2.17	2.94	0.0	82.9	11.3	5.8	4.8	<2.0	M
-32	54°24.0'	131°47.7'	298	4.40	2.37	1.98	0.0	67.0	21.8	11.2	2.0	<2.0	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR84A-33	54°23.9'	131°51.1'	258	-0.38	2.60	-0.14	38.7	56.6	4.7	0.0	11.9	<2.0	M
-34	54°25.9'	131°51.2'	333	-0.81	2.48	0.13	47.1	49.1	3.8	0.0	13.0	<2.0	M
-35	54°09.9'	131°03.9'	106	3.29	2.70	1.81	0.5	73.9	17.4	8.2	2.9	6.5	M
-36	54°09.9'	131°00.4'	48	-3.36	2.78	1.42	81.5	15.6	2.9	0.0	5.4	54.0	M
-37	54°09.9'	130°56.8'	62	-2.24	2.99	0.75	69.3	28.1	2.6	0.0	10.7	14.5	M
-38	54°09.0'	130°53.6'	97	-0.07	2.84	-0.55	35.5	61.5	3.0	0.0	20.7	4.5	M
-39	54°12.0'	130°53.6'	132	2.75	0.68	1.92	0.0	94.2	5.8	0.0	16.3	3.0	
-40	54°12.0'	130°56.8'	77	2.13	0.75	2.10	0.1	95.5	4.4	0.0	21.9	5.5	M
-41	54°12.0'	131°00.4'	66	1.51	1.88	-1.65	9.7	84.3	6.0	0.0	14.1	26.0	M
-42	54°12.0'	131°03.9'	108	4.01	2.80	1.83	0.0	66.7	22.8	10.5	2.0	4.6	M
-43	54°12.0'	131°07.0'	27	1.79	0.63	2.21	0.0	98.4	1.6	0.0	60.3	12.0	
-44	54°12.0'	131°10.5'	29	2.08	0.56	1.92	0.0	98.3	1.7	0.0	58.1	6.0	
-45	54°12.0'	131°13.6'	20	0.87	1.90	-1.18	17.3	80.2	2.5	0.0	32.4	4.5	M
-46	54°12.0'	131°17.4'	31	0.56	2.24	-0.73	27.3	70.8	1.9	0.0	36.6	5.5	M
-47	54°12.0'	131°20.6'	24	0.65	1.46	-1.84	11.6	87.6	0.8	0.0	111.1	7.5	M
-48	54°12.0'	131°24.0'	22	1.00	1.03	-0.94	8.1	90.9	1.0	0.0	89.2	9.0	M; living bivalves

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR84A-49	54°12.0'	131°27.5'	22	1.44	0.68	-0.33	0.9	98.4	0.7	0.0	132.9	10.0	M
-50	54°14.1'	131°27.5'	26	-0.50	2.33	-0.18	46.8	52.7	0.5	0.0	110.0	5.5	M
-51	54°14.1'	131°24.0'	24	1.27	0.85	-1.16	4.0	95.2	0.8	0.0	112.7	6.0	M
-52	53°56.0'	131°53.9'	37	-2.92	3.03	0.79	71.0	27.6	1.4	0.0	19.6	32.5	M
-53	53°56.0'	131°57.0'	64	-0.27	1.80	-0.41	32.6	66.5	0.9	0.0	77.0	<2.0	M
-54A	53°56.0'	131°00.5'	81	-2.95	2.47	1.36	78.7	20.3	1.0	0.0	21.0	3.5	M
-54B	53°56.0'	131°00.5'	81	-2.37	2.48	1.0	74.4	24.2	1.4	0.0	17.8	4.0	M
-55	53°56.0'	131°03.8'	79	1.80	0.55	1.86	0.1	98.7	1.2	0.0	85.5	<2.0	M
-56	53°56.0'	131°07.3'	48	2.19	0.42	3.40	0.0	98.8	1.2	0.0	82.7	2.5	
-57	53°56.0'	131°10.6'	37	-0.57	1.85	-0.50	40.0	59.3	0.7	0.0	84.2	12.0	M
-58	53°56.0'	131°14.0'	33	-1.61	3.26	0.23	55.4	41.7	2.9	0.0	14.3	8.0	M
-59	53°56.0'	131°17.5'	26	2.13	7.07	0.26	46.3	11.7	12.1	29.9	0.3	18.5	M
-60	53°56.0'	131°20.7'	31	1.14	0.63	1.67	0.5	98.5	1.0	0.0	98.2	7.0	M
-61	53°56.0'	131°24.2'	29	-2.91	3.32	0.65	67.9	31.2	1.3	0.0	25.0	9.5	M
-62	53°54.0'	131°24.2'	26	2.03	0.65	0.23	0.0	99.0	1.0	0.0	95.5	4.5	
-63	53°54.0'	131°20.7'	31	2.07	0.61	1.49	0.0	98.2	1.8	0.0	56.0	5.0	

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Location Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR84A-64	53°54.0'	131°17.3'	31	1.19	0.97	-1.26	6.4	92.3	1.3	0.0	73.7	20.0	M; gravel mostly shell
-65	53°42.1'	130°30.0'	70	4.01	2.13	2.36	0.0	75.9	16.0	8.1	3.2	16.0	M
-66	53°42.1'	130°33.2'	57	3.93	2.05	2.85	0.0	81.7	11.0	7.3	4.5	35.0	M
-67	53°42.1'	130°46.5'	66	3.37	1.44	4.22	0.0	91.2	5.5	3.3	10.4	34.0	M
-68	53°42.1'	130°39.6'	130	3.56	1.44	4.04	0.0	87.3	9.3	3.4	6.9	<2.0	M
-69	53°42.1'	130°43.0'	135	3.54	1.76	3.28	0.0	86.8	8.2	5.0	6.6	<2.0	M
-70	53°42.1'	130°46.5'	113	2.61	0.51	2.16	0.0	97.8	2.2	0.0	43.7	<2.0	
-71	53°42.1'	130°49.9'	59	2.17	0.63	1.33	0.1	97.9	2.0	0.0	49.2	<2.0	M
-72	53°42.1'	130°53.2'	49	1.38	0.51	3.16	0.0	99.1	0.9	0.0	105.7	6.0	
-73	53°42.1'	130°56.5'	44	0.26	2.20	-0.63	32.4	66.6	1.0	0.0	66.7	12.0	M
-74	53°42.1'	131°00.0'	38	-0.65	2.37	-0.33	43.7	53.2	3.1	0.0	17.1	79.5	M; gravel mostly shell
-75	53°42.1'	131°03.2'	40	1.73	1.20	-2.31	5.7	92.1	2.2	0.0	41.2	22.5	M; gravel mostly shell
-76	53°42.1'	131°06.2'	51	1.58	0.93	2.07	0.0	96.0	4.0	0.0	24.1	14.0	M
-77	53°42.1'	131°09.6'	40	1.57	0.57	2.36	0.3	98.4	1.3	0.0	78.2	4.5	M
-78	53°42.1'	131°12.9'	44	0.63	2.07	-1.09	21.3	76.4	2.3	0.0	33.9	10.0	M; gravel mostly shell
-79	53°42.1'	131°16.4'	48	2.59	0.68	2.06	0.0	95.1	4.9	0.0	19.4	6.5	

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Location Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR84A-80	53°40.0'	130°43.0'	141	3.25	1.37	4.27	0.0	91.9	5.6	2.5	11.3	3.0	M
-81	53°40.0'	130°39.8'	117	3.20	1.47	4.22	0.0	93.0	4.0	3.0	13.2	2.0	M
-82	53°52.0'	130°56.5'	91	-3.18	2.60	1.62	81.8	16.3	1.9	0.0	8.6	9.5	M
-83	53°50.0'	130°56.5'	84	1.81	0.52	2.23	0.0	98.6	1.4	0.0	72.8	2.0	M
-84	53°48.1'	130°56.5'	73	2.23	0.44	2.99	0.0	98.7	1.3	0.0	76.0	<2.0	
-85	53°46.0'	130°56.5'	62	1.89	0.52	2.85	0.0	98.7	1.3	0.0	75.3	2.0	
-86	53°44.0'	130°56.5'	59	1.70	0.71	0.07	2.0	96.2	1.8	0.0	54.0	5.5	M; gravel mostly shell
-87	53°40.0'	130°56.5'	48	-2.87	3.13	0.48	64.1	35.4	0.5	0.0	79.5	1.5	M
-88	53°38.2'	130°56.5'	51	0.78	1.08	-1.34	10.7	88.6	0.7	0.0	122.0	<2.0	M
-89	53°36.2'	130°56.5'	59	-3.82	2.35	1.76	86.3	13.0	0.7	0.0	18.5	12.0	M
-90	53°34.0'	130°56.5'	59	-0.18	2.44	-0.49	36.7	61.9	1.4	0.0	45.4	5.0	M
-91	53°40.0'	131°13.0'	35	0.05	2.00	-0.51	34.8	64.1	1.0	0.0	64.1	12.0	M
-92	53°40.0'	131°16.5'	24	1.56	1.36	-1.90	7.9	90.2	1.9	0.0	46.9	6.0	M; gravel mostly shell
-93	53°40.0'	131°20.0'	20	1.96	0.50	2.43	0.0	98.8	1.2	0.0	84.2	3.5	
-94	53°40.0'	131°23.0'	18	1.96	0.48	2.26	0.0	99.0	1.0	0.0	97.5	4.0	
-95	53°40.0'	131°26.5'	20	1.99	0.94	-1.86	2.8	95.7	1.5	0.0	64.1	10.0	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Location Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR84A-96	53°38.0'	131°30.0'	22	1.39	0.65	1.05	0.6	98.4	1.0	0.0	101.9	11.0	M
-97	53°38.0'	131°26.9'	20	2.19	0.46	3.29	0.0	98.5	1.5	0.0	65.9	3.0	
-98	53°38.0'	131°23.3'	20	0.82	1.40	-1.68	12.1	87.0	0.9	0.0	97.5	10.5	M; gravel mostly shell
-99	53°38.0'	131°20.0'	18	1.56	0.55	2.13	0.0	99.0	1.0	0.0	96.8	7.0	M
-100	53°38.0'	131°16.5'	20	1.29	0.80	-0.80	3.3	95.6	1.1	0.0	87.1	10.5	
-101	53°38.0'	131°13.0'	24	1.20	0.69	0.42	3.0	96.0	1.0	0.0	94.2	7.0	M
-102	53°36.0'	131°13.0'	20	1.35	0.65	1.71	0.3	98.5	1.2	0.0	84.8	10.5	M
-103	53°36.0'	131°16.5'	26	0.86	0.92	-0.64	12.9	86.1	1.0	0.0	88.0	14.5	M
-104	53°36.0'	131°19.8'	20	1.88	0.48	2.96	0.0	98.8	1.2	0.0	84.0	4.0	
-105	53°14.0'	130°53.1'	119	2.42	0.70	1.63	0.0	96.3	3.7	0.0	25.8	<2.0	
-106	53°14.0'	130°49.9'	121	1.62	1.04	0.82	3.0	92.6	4.4	0.0	20.9	<2.0	M
-107	53°14.0'	130°46.2'	155	4.06	1.58	2.96	0.0	62.4	33.5	4.1	1.7	<2.0	M
-108	53°14.0'	130°43.3'	170	4.86	2.46	1.78	0.0	49.3	38.3	12.4	1.0	<2.0	M
-109	53°15.8'	130°43.3'	188	5.71	3.14	1.12	0.0	42.3	34.9	22.8	0.7	<2.0	M
-110	53°17.8'	130°43.3'	183	7.40	3.17	0.26	0.0	18.0	39.0	43.0	0.2	<2.0	M
-111	53°17.8'	130°46.5'	154	4.88	2.85	1.33	0.0	56.4	26.6	17.0	1.3	4.5	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR84A-112	53°17.8'	130°49.8'	148	2.88	1.06	0.90	0.0	84.2	15.8	0.0	5.4	5.0	
-113	53°17.8'	130°53.2'	128	2.56	0.69	1.35	0.0	95.9	4.1	0.0	23.2	<2.0	
-114	53°17.8'	130°56.5'	91	1.44	0.59	2.64	0.0	98.7	1.3	0.0	78.0	<2.0	M
-115	53°17.8'	131°00.0'	79	1.14	1.12	-0.80	12.8	85.6	1.6	0.0	55.0	<2.0	M
-116	53°17.8'	131°03.0'	64	2.00	0.49	2.44	0.0	98.8	1.2	0.0	83.4	<2.0	
-117	53°17.8'	131°06.5'	50	2.12	0.65	2.57	0.0	96.8	3.2	0.0	30.2	<2.0	
-118	53°06.0'	130°39.8'	137	3.38	1.88	2.96	0.0	81.9	13.1	5.0	4.5	<2.0	M
-119	53°06.0'	130°43.2'	128	3.41	1.49	4.47	0.0	89.0	7.9	3.1	8.2	<2.0	M
-120	53°06.0'	130°46.6'	126	3.64	1.44	3.92	0.0	83.9	12.8	3.3	5.2	<2.0	M
-121	53°06.0'	130°49.9'	123	3.50	1.13	3.96	0.0	83.9	14.5	1.6	5.2	<2.0	M
-122	53°06.0'	130°53.0'	90	-2.22	2.91	1.07	73.3	24.0	2.7	0.0	9.0	4.5	M
-123	53°06.0'	130°56.5'	66	2.30	0.63	0.77	0.0	98.4	1.6	0.0	63.2	<2.0	M
-124	53°06.0'	131°00.0'	50	2.60	0.60	0.64	0.0	98.0	2.0	0.0	48.9	10.0	
-125	53°06.0'	131°03.1'	46	-1.85	3.01	0.02	53.3	45.5	1.2	0.0	36.7	34.5	M
-126	53°06.0'	131°06.5'	38	-2.53	2.63	1.09	75.7	21.8	2.5	0.0	8.9	45.5	M
-127	53°06.0'	131°09.8'	33	2.82	3.20	2.13	1.4	81.6	6.4	10.6	4.8	55.0	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR84A-128	53°06.0'	131°13.0'	31	0.10	1.85	-0.57	30.9	67.4	1.7	0.0	40.6	79.5	M
-129	53°06.0'	131°16.5'	31	0.16	1.28	-0.06	22.6	76.0	1.4	0.0	53.1	42.5	M
-130	53°06.0'	131°19.9'	31	-1.24	1.75	1.04	72.8	25.1	2.1	0.0	11.8	96.0	M
-131	53°06.0'	131°23.3'	27	-1.17	1.98	0.86	68.1	29.4	2.5	0.0	11.7	91.5	M
-132	53°06.0'	131°26.6'	29	-4.89	2.38	1.72	90.3	9.2	0.5	0.0	17.8	83.0	M
-133	53°06.0'	131°30.1'	29	-0.81	2.60	-0.07	47.8	48.5	3.7	0.0	13.3	82.0	M
-134	53°06.0'	131°33.1'	20	-1.45	2.46	0.60	62.5	33.9	3.6	0.0	9.3	84.0	M; gravel mostly shell
-135	52°52.0'	130°30.0'	119	-1.04	3.93	0.28	48.2	39.3	11.1	1.4	3.2	14.5	M
-136	52°52.0'	130°26.5'	134	0.32	2.26	-0.49	24.8	71.1	4.1	0.0	17.5	<2.0	M
-137	52°52.0'	130°23.1'	166	1.54	0.77	1.22	1.5	96.4	2.1	0.0	43.4	<2.0	M
-138	52°52.0'	130°20.0'	205	5.78	2.77	1.01	0.0	32.7	44.4	22.9	0.5	<2.0	M
-139	52°52.0'	130°16.3'	227	6.18	2.96	0.69	0.0	27.5	44.9	27.6	0.4	<2.0	M
-140	52°52.0'	130°13.0'	234	-0.52	5.20	0.97	61.9	14.1	14.4	9.6	0.6	4.0	M
-141	52°52.0'	130°09.7'	247	8.47	2.56	0.16	0.0	1.2	43.5	55.3	0.0	-	M
-142	52°52.0'	130°06.3'	263	8.23	2.49	0.35	0.0	0.7	49.7	49.6	0.0	-	M
-143	52°52.0'	130°03.2'	265	8.27	2.50	0.31	0.0	0.6	48.2	51.2	0.0	-	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Location Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR84A-144	52°50.0'	130°03.2'	269	8.50	2.94	0.24	0.0	1.3	46.9	51.8	0.0	-	M
-145	52°50.0'	130°06.2'	263	7.97	3.00	0.40	0.0	2.9	52.9	44.2	0.0	<2.0	M
-146	52°50.0 '	130°10.0'	254	7.99	2.70	0.34	0.0	2.1	50.9	47.0	0.0	<2.0	M
-147A	52°50.0'	130°13.0'	234	2.56	4.39	0.62	25.6	39.6	20.9	13.9	1.1	<2.0	M
-147B	52°50.0'	130°13.0'	234	0.24	4.88	0.70	48.2	29.0	14.0	8.8	1.3	<2.0	M
-148	52°50.0'	130°16.6'	229	5.94	2.64	1.10	0.0	22.8	55.2	22.0	0.3	<2.0	M
-149	52°50.0'	130°20.0'	210	5.17	2.58	1.41	0.0	41.3	42.3	16.4	0.7	<2.0	M
-150	52°42.0'	130°30.0'	161	3.46	1.50	3.19	0.0	79.0	18.1	2.9	3.8	<2.0	M
-151A	52°42.0'	130°26.5'	144	2.04	0.92	1.33	0.7	93.8	5.5	0.0	17.0	<2.0	M
-151B	52°42.0'	130°26.5'	144	-0.33	3.24	-0.42	38.9	57.8	3.3	0.0	17.6	3.0	M
-152	52°42.0'	130°23.3'	143	-2.51	3.37	0.26	60.0	38.1	1.9	0.0	20.5	<2.0	M
-153	52°42.0'	130°20.0'	227	4.88	2.35	1.64	0.0	41.6	46.7	11.7	0.7	<2.0	M
-154	52°42.0'	130°16.5'	229	-0.41	4.56	0.72	51.3	34.7	7.9	6.1	2.5	4.5	M
-155	52°42.0'	130°13.0'	254	1.96	4.85	-0.10	26.8	46.7	15.9	10.6	1.8	<2.0	M
-156	52°42.0'	130°09.8'	243	-1.04	3.63	0.84	54.9	38.4	4.2	2.5	5.8	7.0	M
-157	52°42.0'	130°06.5'	256	5.94	3.33	0.74	0.0	40.5	31.5	28.0	0.7	<2.0	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Location Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR84A-158	52°42.0'	130°03.1'	271	6.88	2.90	0.57	0.0	15.3	50.8	33.9	0.2	<2.0	M
-159	52°42.0'	130°00.0'	274	6.69	2.80	0.74	0.0	13.4	55.8	30.8	0.2	<2.0	M
-160	52°44.0'	130°00.0'	276	7.30	2.64	0.51	0.0	4.3	56.9	38.8	0.0	-	M
-161	52°44.0'	130°03.1'	274	7.42	2.69	0.29	0.0	12.8	45.9	41.3	0.2	-	M
-162	52°44.0'	130°06.5'	241	-0.47	3.88	0.91	48.4	43.3	4.1	4.2	5.2	<2.0	M
-163	52°44.0'	130°09.8'	256	1.23	5.05	0.31	37.2	34.4	16.7	11.6	1.2	<2.0	M
-164	52°44.0'	130°13.0'	256	5.77	2.87	1.02	0.0	37.7	38.6	23.7	0.6	<2.0	M
-165	52°44.0'	130°16.5'	235	3.97	3.54	0.30	9.0	46.6	30.2	14.2	1.1	<2.0	M
-166	52°44.0'	130°20.0'	220	4.62	2.43	1.83	0.0	58.9	28.8	12.3	1.4	<2.0	M
-167	53°06.0'	130°36.5'	154	4.13	1.87	2.69	0.0	69.3	18.5	12.2	2.3	<2.0	M
-168	53°06.0'	130°33.2'	168	3.84	1.69	3.28	0.0	74.3	21.1	4.6	2.9	<2.0	M
-169	53°06.0'	130°30.0'	176	7.05	3.14	0.47	0.0	14.2	48.9	36.9	0.2	<2.0	M
-170	53°06.0'	130°26.5'	198	5.18	2.58	1.62	0.0	40.1	45.2	14.7	0.7	<2.0	M
-171	53°06.0'	130°23.0'	201	5.49	2.56	1.40	0.0	33.1	49.5	17.4	0.5	<2.0	M
-172	53°08.0'	130°23.0'	209	6.90	3.17	0.57	0.0	20.2	44.7	35.1	0.3	<2.0	M
-173	53°08.0'	130°26.5'	203	0.09	4.96	0.31	43.2	32.8	18.1	5.9	1.4	<2.0	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
BR84A-174	53°08.0'	130°30.0'	203	3.98	3.31	-0.18	12.3	49.2	27.9	10.6	1.3	<2.0	M
-175	53°08.0'	130°33.0'	177	6.84	3.07	0.45	0.0	18.5	46.0	35.5	0.2	13.0	M
-176	53°08.0'	130°36.5'	166	6.49	3.01	0.66	0.0	19.5	50.3	30.2	0.2	14.5	M
-177	53°08.0'	130°39.8'	154	4.48	1.90	2.55	0.0	49.4	37.6	13.0	1.0	<2.0	M
-178	53°08.0'	130°43.0'	141	4.04	1.82	2.70	0.0	70.5	23.3	6.2	2.4	<2.0	M
-179	53°08.0'	130°46.6'	126	-0.34	3.40	0.37	45.3	48.2	4.9	1.6	7.5	<2.0	M
-180	53°08.0'	130°49.9'	119	0.20	3.72	0.24	34.4	56.9	5.7	3.0	6.6	<2.0	M
-181	53°08.0'	130°53.2'	99	-3.01	2.46	1.86	84.1	13.3	2.6	0.0	5.1	14.0	M
-182	52°32.0'	130°56.8'	135	4.54	3.75	0.67	4.8	46.9	30.2	18.1	1.0	7.5	M
-183	52°32.0'	130°53.2'	91	-2.48	2.18	2.21	85.4	11.0	3.6	0.0	3.1	-	M
-184	52°32.0'	130°50.0'	132	2.70	0.56	2.30	0.0	96.6	3.4	0.0	28.0	<2.0	
-185	52°32.0'	130°46.6'	132	1.67	1.75	-1.90	11.0	86.7	2.3	0.0	37.0	<2.0	M
-186	52°32.0'	130°43.2'	128	3.01	1.09	4.63	0.0	86.8	11.8	1.4	6.6	<2.0	M
-187	52°32.0'	130°39.8'	117	1.56	0.82	2.06	0.2	96.9	2.9	0.0	33.1	<2.0	M
-188	52°32.0'	130°36.5'	117	0.47	1.73	0.30	27.9	67.7	4.4	0.0	15.4	4.0	M
-189	52°32.0'	130°33.0'	146	2.65	2.08	3.01	0.0	85.3	10.1	4.6	5.8	<2.0	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR84A-190	52°32.0'	130°30.0'	163	2.65	2.35	2.88	0.0	86.3	7.8	5.9	6.3	<2.0	M
-191	52°34.2'	130°30.0'	176	3.31	2.18	2.56	0.0	81.9	11.4	6.7	4.5	4.5	M
-192	52°36.3'	130°30.0'	170	4.27	2.40	1.88	0.0	64.4	25.1	10.5	1.8	7.0	M
-193	52°38.2'	130°30.0'	146	1.38	3.32	0.14	23.8	59.7	13.0	3.5	3.6	6.5	M
-194	52°40.2'	130°30.0'	146	1.32	3.81	0.37	30.4	47.9	16.5	5.2	2.2	11.5	M
-195	52°44.0'	130°30.0'	145	1.78	2.33	1.06	8.4	79.6	9.5	2.5	6.6	<2.0	M
-196	52°46.0'	130°30.0'	148	3.89	1.83	2.90	0.0	71.1	23.4	5.5	2.5	<2.0	M
-197	52°48.0'	130°30.0'	134	-1.17	3.30	0.75	55.5	37.9	5.3	1.3	5.8	9.0	M
-198	52°50.0'	130°30.0'	134	2.94	2.77	0.90	6.0	70.4	17.5	6.1	3.0	<2.0	M
-199	52°50.0'	130°26.5'	139	-0.82	2.35	0.89	65.1	30.3	4.6	0.0	6.6	8.5	M
-200	52°48.0'	130°26.5'	139	-1.82	2.92	0.74	67.5	28.1	4.4	0.0	6.4	11.5	M
-201	52°46.0'	130°26.5'	143	0.38	3.69	0.31	38.1	50.3	8.4	3.2	4.4	13.5	M
-202	52°44.0'	130°26.5'	150	0.62	3.81	-0.06	29.0	57.5	10.5	3.0	4.3	6.0	M
-203	52°44.0'	130°23.3'	154	0.24	2.03	-0.47	33.0	64.6	2.4	0.0	26.7	<2.0	M
-204	52°34.0'	130°36.5'	146	3.31	1.60	3.17	0.0	81.7	14.9	3.4	4.5	<2.0	M
-205	52°30.0'	130°36.5'	104	-2.79	2.43	1.29	79.0	19.5	1.5	0.0	12.7	33.0	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR84A-206	52°28.0'	130°36.5'	126	1.07	2.68	0.63	18.7	72.5	6.4	2.4	8.2	12.5	M
-207	52°26.0'	130°36.5'	139	-0.57	3.41	0.38	41.3	46.4	10.7	1.6	3.8	5.0	M
-208	52°24.0'	130°36.5'	143	1.64	1.44	3.78	0.4	93.2	5.1	1.3	14.5	<2.0	M
-209	52°22.0'	130°36.5'	148	1.44	0.91	1.62	2.2	94.0	3.8	0.0	25.1	<2.0	M
-210	52°20.0'	130°36.5'	170	2.49	2.60	1.09	9.1	72.4	13.5	5.0	3.9	18.5	M
-211	52°18.0'	130°36.5'	174	0.85	3.11	0.47	31.8	58.7	6.8	2.7	6.2	32.0	M
-212	52°16.0'	130°36.5'	177	0.67	2.75	0.76	32.0	61.5	4.3	2.2	9.5	21.5	M
-213	52°16.0'	130°40.0'	172	0.63	3.15	-1.05	24.6	71.4	4.0	0.0	17.9	6.5	M
-214	52°16.0'	130°43.2'	172	0.54	2.88	0.35	30.9	62.7	4.5	1.9	9.9	14.0	M
-215	52°16.0'	130°46.6'	177	0.55	2.65	-1.11	19.9	75.9	4.2	0.0	18.0	<2.0	M
-216	52°16.0'	130°50.0'	181	2.20	0.89	1.37	0.0	95.2	4.8	0.0	19.9	<2.0	M
-217	52°16.0'	130°53.3'	187	2.93	0.59	1.98	0.0	94.6	5.4	0.0	17.7	<2.0	

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
PAR84A-18	53°55.1'	131°28.4'	9	2.35	0.61	-1.10	1.1	97.5	1.4	0.0	72.5	<2.0	M; gravel mostly shell
-19	54°02.4'	131°34.2'	17	-0.77	2.61	-0.35	48.9	50.0	1.1	0.0	45.5	7.0	M; gravel mostly shell
-20	54°02.8'	131°33.3'	17	0.40	1.58	-1.06	21.7	77.2	1.1	0.0	71.3	4.5	M; gravel mostly shell
-21	54°02.2'	131°33.1'	17	1.42	1.06	-1.95	6.3	92.6	1.1	0.0	85.1	<2.0	M
-22	54°02.9'	131°34.0'	17	-0.15	2.12	-1.18	28.2	70.8	1.0	0.0	73.4	4.5	M
-23	54°08.2'	131°34.4'	17	0.81	1.63	-2.78	8.9	89.9	1.2	0.0	75.2	7.0	M; gravel mostly shell
-24	54°11.1'	131°31.2'	17	-2.83	2.65	1.11	77.3	20.7	2.0	0.0	10.4	23.0	M; gravel mostly shell
-25	54°05.7'	131°32.0'	18	2.25	0.39	4.27	0.0	98.8	1.2	0.0	82.6	<2.0	
-26	54°12.7'	131°26.3'	20	-3.05	2.07	1.49	84.8	14.7	0.5	0.0	31.1	13.5	M
-27	54°14.5'	131°29.1'	26	-0.91	1.92	0.02	52.2	47.2	0.6	0.0	78.3	9.5	M
-28	54°12.6'	131°28.5'	18	1.02	0.73	0.16	4.2	95.0	0.8	0.0	114.8	7.0	M
-29	54°07.4'	131°31.5'	17	-0.43	2.43	-0.60	37.1	61.8	1.1	0.0	54.4	9.0	M
-30	54°07.4'	131°31.5'	17	0.23	1.76	-1.18	24.2	75.0	0.8	0.0	91.6	8.0	M; gravel mostly shell
-31	53°59.5'	131°24.6'	19	1.63	0.61	0.08	1.4	97.7	0.9	0.0	103.6	6.0	M; gravel mostly shell
-32	53°57.4'	131°34.8'	13	1.50	0.66	0.47	1.3	97.7	1.0	0.0	99.1	<2.0	M; gravel mostly shell
-33	54°12.7'	131°28.1'	18	0.52	1.31	-1.00	18.2	80.9	0.9	0.0	91.2	17.0	M; gravel mostly shell

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR85A-33	53°33.0'	131°17.9'	27	1.44	0.69	0.01	2.3	96.7	1.0	0.0	102.1	-	M
-34	53°32.0'	131°18.6'	31	1.69	0.51	2.03	0.0	99.2	0.8	0.0	120.3	-	M
-35	53°31.0'	131°18.0'	33	2.00	0.48	1.12	0.0	99.2	0.8	0.0	124.9	-	M
-36	53°31.0'	131°16.5'	29	1.65	0.57	0.83	0.8	98.2	1.0	0.0	97.3	-	M
-37	53°32.0'	131°16.5'	29	0.74	0.96	-0.79	5.9	93.3	0.8	0.0	119.1	-	M
-38	53°09.5'	130°45.0'	146	3.99	1.70	2.81	0.0	71.9	22.8	5.3	2.6	-	M
-39	53°09.5'	130°46.7'	131	1.67	1.84	1.31	7.3	85.1	6.2	1.4	11.1	-	M
-40	53°09.5'	130°48.5'	128	2.68	1.60	2.92	0.0	88.7	8.8	2.6	7.8	-	M
-41	53°09.5'	130°50.0'	119	-1.43	3.74	0.70	57.3	35.8	5.1	1.8	5.2	-	M
-42	53°10.5'	130°50.0'	140	-0.84	4.16	0.73	54.7	33.1	8.5	3.7	2.7	-	M
-43	53°10.5'	130°48.5'	144	2.49	1.61	3.22	0.0	91.1	6.1	2.8	10.3	-	M
-44	53°10.5'	130°46.7'	131	3.08	1.66	2.73	0.0	85.9	10.7	3.4	6.1	-	M
-45	53°10.5'	130°45.0'	120	2.75	1.49	3.08	0.0	87.8	10.1	2.1	7.2	-	M
-46	53°11.5'	130°45.0'	151	3.92	1.86	2.54	0.0	70.4	24.1	5.5	2.4	-	M
-47	52°11.5'	130°46.7'	144	3.31	1.58	3.06	0.0	84.3	12.5	3.3	5.4	-	M
-48	52°11.5'	130°48.5'	128	1.88	1.79	1.37	5.1	87.9	5.3	1.7	12.6	-	M

HECATE STRAIT GRAB SAMPLE DATA

Sample	Location Lat°N	Long°W	Depth m	Mean Ø	Std.Dev. Ø	Skewness Ø	% gravel	% sand	% silt	% clay	S/M	%$CaCo_3$ sand fraction	Comments
GBR85A-49	53°11.5'	130°50.0'	124	1.35	2.41	-0.03	17.4	76.8	4.4	1.5	13.0	-	M
-50	53°12.5'	130°50.0'	128	1.58	2.08	0.10	13.6	79.8	5.4	1.2	12.1	-	M
-51	53°12.5'	130°48.5'	128	1.56	0.77	2.33	0.7	96.3	3.0	0.0	31.7	-	M
-52	53°12.5'	130°46.7'	130	3.38	1.92	2.18	0.0	77.6	17.7	4.7	3.5	-	M
-53	53°12.5'	130°50.0'	161	4.40	2.10	1.99	0.0	62.6	27.9	9.5	1.7	-	M

Hecate Strait Piston Core Data

Sample	Lat °N	Long °W	Length	Depth
HUD81-12	52°12.92'	130°12.92'	7.63 m	458 m
HUD81-13	52°09.02'	130°15.64'	6.96 m	458 m
END84B-01	52°13.96'	130°35.81'	0.55 m	178 m
END84B-02	52°17.97'	130°13.34'	0.30 m	375 m
END84B-03	52°17.00'	130°10.93'	0.13 m	485 m
END84B-04	52°14.72'	130°09.05'	4.79 m	327 m
END84B-05	52°13.67'	130°11.24'	5.46 m	474 m
END84B-06	52°17.13'	130°10.32'	3.49 m	432 m
END84B-07	52°16.70'	130°12.27'	5.73 m	474 m

Core data (HUD81II - 12 cont.)

depth cm	mean Ø	std.dev. Ø	skewness Ø	% gravel	% sand	% silt	% clay	% organic C	% N	^{14}C yBP
27-30								0.77		
33-34	6.51	2.93	0.95	0.0	21.3	51.3	27.4			
34-37								0.83	0.10	
79-80	8.11	3.18	0.11	0.0	16.1	35.8	48.1			
133-134	7.18	3.30	0.47	0.0	27.2	36.4	36.4			
141.5-142.5	7.36	3.19	0.49	0.0	19.1	43.8	37.1			
222										$10610^{1} \pm 85$
229.5-230.5	5.73	3.00	1.11	0.0	39.8	39.6	20.6			
232-235								0.20	0.014	
284.5-285.5	6.15	3.26	0.85	0.0	41.0	33.2	25.8			
296.5-297.5	6.30	3.35	0.83	0.0	40.0	33.1	26.9			
331										$11100^{2} \pm 70$
376.5-377.5	5.52	2.99	1.41	0.0	40.6	42.2	17.2			
381.5-382.5	6.44	3.03	0.84	0.0	29.9	42.8	27.3			
438.5-439.5	6.01	2.95	0.94	0.0	38.8	29.1	22.1			
444										$11370^{3} \pm 114$

Core data (HUD81II - 12 cont.)

depth cm	mean Ø	std.dev. Ø	skewness Ø	% gravel	% sand	% silt	% clay
452.5-453.5	5.95	3.06	0.98	0.0	39.9	37.1	23.0
522.5-523.5	5.57	2.84	1.22	0.0	45.3	37.0	17.7
590.5-591.5	5.19	2.52	1.31	0.0	52.4	33.7	13.9
612-613	5.19	2.61	1.51	0.0	47.1	37.9	15.0
637-638	7.14	2.92	0.64	0.0	13.8	53.2	33.0
665.5-666.5	6.14	3.26	1.07	0.0	34.5	42.1	23.4
745-746	5.55	2.99	1.28	0.0	47.6	33.4	19.0

1 - TO-176 on a pelecypod shell fragment.

2 - TO-177 on a pelecypod valve, *Macoma calcarea*.

3 - TO-178 on a pelecypod valve, *Macoma calcarea*.

Core HUD81II - 13

Water depth 458 m
Core length 694.5 cm

Latitude 52°09.024'N
Longitude 130°15.635'W

Core description

0 - 694.5 cm silty mud with minor sand, 5Y4/3 (olive), massive, bioturbated, minor shell debris, soft - becoming stiff below 80 cm

Core data

depth cm	mean Ø	std.dev. Ø	skewness Ø	% gravel	% sand	% silt	% clay
3-4	7.10	2.58	0.69	0.0	5.7	59.9	34.4
46-47	7.25	2.43	0.65	0.0	3.0	60.9	36.1
76-77	7.35	2.50	0.52	0.0	5.0	57.0	38.0
85-86	7.50	2.67	0.59	0.0	4.7	57.6	37.7
160-161	7.54	2.64	0.56	0.0	3.2	58.3	38.5
211-212	7.78	2.73	0.48	0.0	3.4	54.1	42.5
239-240	7.23	2.54	0.71	0.0	4.3	61.4	34.3
317-318	7.63	2.60	0.51	0.0	3.7	55.7	40.6
383-384	7.40	2.52	0.56	0.0	4.5	57.9	37.6
394.5-395.5	6.80	2.55	0.79	0.0	8.6	62.9	28.5
478.5-395.5	7.08	2.40	0.71	0.0	4.8	62.1	33.1

Core Hud81II-13 (continued)

depth cm	mean Ø	std.dev. Ø	skewness Ø	% gravel	% sand	% silt	% clay
528.5-529.5	7.68	2.47	0.46	0.0	2.9	55.3	41.8
546.5-547.5	7.41	2.53	0.65	0.0	3.1	60.2	36.7
634.5-635.5	7.40	2.49	0.50	0.0	3.7	58.5	37.8
685.5-686.5	6.90	2.52	0.87	0.0	3.2	63.6	33.2

Core END84B-01

Water depth 178 m
Core length 51 cm

Latitude 52°13.96'N
Longitude 130°35.81'W

Core description

0 - 9 cm gravelly, shelly sand, 2.5Y5/4 (light olive brown), gravel to 2.0 cm diameter encrusted with bryozoans and worm tubes, firm; sharp lower contact.

9 - 51 cm clayey mud, 2.5Y4/0 (dark grey) mottled with 2.5Y3/0 (very dark grey), bioturbated, very compact and hard, homogenous.

Core data

depth cm	mean Ø	std.dev. Ø	skewness Ø	% gravel	% sand	% silt	% clay	undrained shear strength Kg cm^{-2}
3-5	3.59	4.33	0.95	8.5	60.0	10.6	20.9	
14-16	9.49	2.16	-0.13	0.0	0.9	26.8	72.3	
30-32	9.35	2.23	-0.04	0.0	0.2	30.9	68.9	
31-33								0.88
40-42	9.51	2.23	-0.07	0.0	0.1	28.0	71.9	
41-43								1.19

Core END84B-02

Water depth 375 m
Core length 29 cm

Latitude 52°17.97'N
Longitude 130°13.34'W

Core description

0 - 17 cm muddy, gravelly sand, 2.5Y4/4 (olive brown), massive, rounded gravel to 2 cm diameter, sharp lower contact.

17-25 cm gravelly, muddy fine sand, 5Y3/1 (very dark grey), stiff, massive; gradational lower contact.

25-29 cm sandy, muddy gravel, 5Y2.5/1 (black), subrounded gravel to 1 cm diameter, massive.

Core data

depth cm	mean Ø	std.dev. Ø	skewness Ø	% gravel	% sand	% silt	% clay
4-6	2.12	2.66	1.93	5.7	77.8	10.8	5.7
10-12	1.35	1.14	1.42	2.3	92.2	5.5	0.0
20-22	1.92	2.58	1.72	8.0	78.7	8.4	4.9
27-29	-0.97	2.22	0.79	60.2	36.5	3.3	0.0

Core END84B-04

Water depth	327 m	Latitude	52°14.72'N
Core length	451 cm	Longitude	130°09.05'W

Core description

0-5 cm	muddy fine sand, 5Y4/3 (olive), massive.
5-365 cm	sandy, silty mud, 5Y4/1 (dark grey), massive or finely laminated, soft to stiff, some shells and shell debris, gradational lower contact.
365-395 cm	muddy sand, 5Y4/1 (dark grey), stiff, abundant shells and shell debris, massive, sharp lower contact.
395-407 cm	sandy mud, 5Y4/1 (dark grey), soft to stiff, minor shell debris, massive, sharp lower contact.
407-415 cm	muddy sand 5Y4/1 (dark grey), stiff, minor shell debris, massive, sharp lower contact.
415-451 cm	sandy mud grading into muddy sand at 445 cm, 5Y4/1 (dark grey), soft to stiff, minor shell debris, massive.

Core END84B-04 (Continued)

Core data

depth cm	mean Ø	std. dev. Ø	skewness Ø	% gravel	% sand	% silt	% clay	undrained shear strength kg cm^{-2}	^{14}C yBP
3-5	5.15	2.90	1.70	0.0	51.9	32.7	15.4		
17-19	5.81	2.45	1.39	0.0	19.6	63.9	16.5		
30-32	6.18	2.64	1.11	0.0	18.5	60.7	20.8		
41-43								0.11	
58-60	5.78	2.47	1.39	0.0	21.5	62.0	16.5		
75-77	5.80	2.46	1.34	0.0	21.3	61.8	16.9		
99-101	6.02	2.38	1.26	0.0	14.5	67.5	18.0		
102-104								0.14	
115-117	5.94	2.47	1.25	0.0	18.6	63.5	17.9		
121									11800[1] ± 120
141-143	5.87	2.49	1.31	0.0	20.5	62.4	17.1		
163-165	5.98	2.59	1.32	0.0	18.3	62.9	18.8		
181-183	6.13	2.65	1.16	0.0	18.1	61.4	20.5		
191-193								0.12	
211-213	6.35	2.75	1.08	0.0	15.7	61.5	22.8		

Core END84B-04 (Continued)

Core data

depth cm	mean Ø	std.dev. Ø	skewness Ø	% gravel	% sand	% silt	% clay	undrained shear strength kg cm^{-2}	^{14}C yBP
231-233	5.99	2.62	1.28	0.0	19.4	61.6	19.0		
253-255	6.26	2.65	1.10	0.0	15.7	62.8	21.5		
270-272	5.38	2.22	1.86	0.0	23.0	66.2	10.8		
276-278								0.15	
290-292	6.07	2.62	1.23	0.0	19.3	61.3	19.4		
310-312	5.16	2.23	1.95	0.0	31.7	58.1	10.3		
325-327	5.65	2.45	1.51	0.0	23.3	61.7	15.0		
340-342	5.97	2.61	1.20	0.0	21.5	58.9	19.6		
343-345									12020²±90

Core END84B-04 (Continued)

Core data

depth cm	mean Ø	std. dev. Ø	skewness Ø	% gravel	% sand	% silt	% clay	undrained shear strength kg cm^{-2}	^{14}C yBP
352-354								0.13	
355-357	5.57	2.32	1.65	0.0	20.5	66.0	13.5		
364-366	5.34	2.42	1.67	0.0	32.4	54.8	12.8		
375-377	5.31	2.58	1.56	0.0	39.1	46.0	14.9		
386-388								0.24	
390-392									12400[3] ± 290
397-399	5.68	2.84	1.19	0.0	37.3	42.9	19.8		
410-412	4.68	2.31	2.05	0.0	55.0	35.3	9.7		
415-417	5.22	2.56	1.52	0.0	42.1	43.1	14.8		
435-437								0.07	
447-449	4.67	2.37	1.95	0.0	56.3	33.4	10.3		

1 - GSC-4115 on a gastropod shell, Colus sp. (Buccinidae).

2 - TO-167 on a fragment of a pelecypod valve, Macoma calcarea.

3 - GSC-4120 on 3 palecypod valves, Macoma calcerea.

Core END84B-05

Water depth	474 m	Latitude	52°13.67'N
Core length	532 cm	Longitude	130°11.24'W

Core description

0-532 cm sandy, silty mud, 5Y4/1 (dark grey), finely laminated, soft to stiff, minor shell debris, fleck of wood at 263 cm, muddy, shelly sand lense or layer 462-465 cm.

Core END84B-05 (Continued)

Core data

depth cm	mean Ø	std. dev. Ø	skewness Ø	% gravel	% sand	% silt	% clay	undrained shear strength kg cm^{-2}	^{14}C yBP
10-12	5.97	2.82	0.93	0.0	30.5	46.6	22.9		
40-42	6.43	2.77	0.80	0.0	18.4	55.5	26.1		
62-64	6.22	3.15	0.73	0.0	31.7	41.7	26.6		
68-70								0.13	
75-77	6.62	2.96	0.70	0.0	21.1	49.7	29.2		
93-95	5.53	2.76	1.24	0.0	39.6	42.0	18.4		
106-108	6.28	2.91	0.91	0.0	25.3	50.0	24.7		
118-120								0.17	
156-158	5.60	2.92	1.13	0.0	41.7	37.9	20.4		
196-198	5.65	2.81	1.20	0.0	38.6	42.1	19.3		
236-238	5.62	2.75	1.21	0.0	37.6	43.1	19.3		
265-267	6.43	2.81	0.83	0.0	20.3	53.4	26.3		
278-280								0.17	
285-287	5.75	2.77	1.15	0.0	35.0	45.2	19.8		

Core END84B-05 (Continued)

Core data

depth cm	mean Ø	std.dev. Ø	skewness Ø	% gravel	% sand	% silt	% clay	undrained shear strength kg cm^{-2}	^{14}C yBP
335-337	5.92	2.80	1.16	0.0	28.3	51.2	20.5		
357-359	6.55	2.78	0.87	0.0	15.4	58.4	26.2		
373-375								0.15	
375-377	6.64	2.79	0.82	0.0	14.9	57.9	27.2		
412-414	6.10	2.74	1.08	0.0	22.1	56.1	21.8		
437-439	6.20	2.91	0.90	0.0	26.7	48.7	24.6		
450-452								0.21	
467-469	5.67	2.79	1.21	0.0	35.8	44.9	19.3		
492-494	6.37	2.89	0.86	0.0	20.9	53.8	25.3		
492-494								0.18	
522-524	5.89	2.67	1.27	0.0	23.0	57.7	19.3		

Core END84B-06

Water depth	432 m	Latitude	52°17.13'N
Core length	70 cm	Longitude	130°10.32'W

Core description

0-1 cm	sandy mud, 5Y4/3 (olive), sharp contact
1-70 cm	fine muddy sand, 5Y3/1 (very dark grey), soupy becoming firm and cleaner down core, minor shell debris

depth cm	mean Ø	std. dev. Ø	skewness Ø	% gravel	% sand	% silt	% clay
15-17	4.27	1.45	2.13	0.0	42.0	55.1	2.9
40-42	3.18	1.25	4.05	0.0	89.5	8.8	1.7

Core END84B-07

Water depth	474 m	Latitude	52°16.70'N
Core length	565 cm	Longitude	130°12.27'W

Core description

0-470 cm	sandy mud, 5Y4/3-4/2 (olive-olive grey), massive or weakly laminated, soft, becoming less sandy with depth, slightly bioturbated, minor shell debris.
470-565 cm	mud with muddy sand laminae and minor sand lenses, 5Y4/1 (dark grey), soft, massive, abundant shell debris from 470-480 cm.

Core END84B-07 (Continued)

Core data

depth cm	mean Ø	std. dev. Ø	skewness Ø	% gravel	% sand	% silt	% clay	undrained shear strength kg cm^{-2}	^{14}C yBP
10-12	6.73	2.71	0.56	0.0	16.2	51.9	31.9		
40-42	6.44	2.59	0.78	0.0	15.5	57.9	26.6		
90-92	7.07	2.72	0.56	0.0	10.8	54.0	35.2		
111-113								0.09	
115-117	6.85	2.75	0.42	0.0	15.8	50.5	33.7		
136-138	6.29	2.64	0.77	0.0	21.3	52.7	26.0		
196-198	7.53	2.49	0.51	0.0	2.8	58.8	38.4		
236-238	8.12	2.45	0.22	0.0	2.1	49.9	48.0		
271-273	8.26	2.47	0.08	0.0	2.7	46.2	51.1		
298-300	8.41	2.33	-0.07	0.0	2.3	43.5	42.2		
307-309								0.11	
338-340	8.51	2.55	-0.07	0.0	4.2	39.8	56.0		
378-380	8.63	2.52	-0.04	0.0	3.4	39.6	57.0		
418-420	8.29	2.67	-0.03	0.0	7.1	39.9	53.0		

Core END84B-07 (Continued)

Core data

depth cm	mean Ø	std.dev. Ø	skewness Ø	% gravel	% sand	% silt	% clay	undrained shear strength kg cm^{-2}	^{14}C yPB
440-442	7.19	3.01	0.48	0.0	13.5	51.9	34.6		
449-451								0.12	
462-464	7.36	2.91	0.22	0.0	14.2	46.8	39.0		
470-472									10900[1] ±280
482-484	7.38	2.74	0.57	0.0	6.1	58.7	35.2		
512-514	7.32	2.75	0.68	0.0	5.0	61.7	33.3		
520-522	7.65	2.82	0.47	0.0	5.2	55.5	39.3		
531-533								0.13	
545-547	7.50	2.76	0.50	0.0	6.0	56.8	37.2		

1 - GSC - 4108 on a pelecypod valve, *Macoma liparia*.

Sidescan sonar and Huntec deep-tow seismic

- an entry denotes a change in record availability or quality.

VEC81B

Day	Time	Line	Sidescan	Qual.*	Huntec DTS	Qual.	Reflectivity	Qual.	12 kHz	Qual.
233	2115	4	+	P	-		-		+	
	2150		+	F	-		-		+	
	2210		+	G	-		-		+	
	2315		+	F	-		-		+	
234	0410		+	P	-		-		+	
	0440		EOL							
	0520	6	+	F	-		-		+	
	0730		+	G	-		-		+	
	1430		EOL							
	2110	8	+	F	-		-		+	
	2350		-		-		-		+	
235	0505		+	F	-		-		+	
	0530		+	G	-		-		+	
	1035		+	P	-		-		+	
	1130		+	F	-		-		+	
	1300		EOL							

* Quality of record obtained G - good
F - fair
P - poor

VEC81B

Day	Time	Line	Sidescan	Qual.	Huntec DTS	Qual.	Reflectivity	Qual.	12 kHz	Qual.
235	2110	10	+	G	-		-		+	
236	0200		+	F	-		-		+	
	0340		EOL							
	0935	100	+	F	-		-		+	
	1010		+	G	-		-		+	
	1142		-		-		-		+	
	1230		+	G	-		-		+	
	1433		-		-		-		+	
	1515		+	G	-		-		+	
	1604		EOL		-		-			

HUD81 PHASE II

Day	Time	Line	Sidescan	Qual.	Huntec DTS	Qual.	Reflectivity	Qual.	12 kHz	Qual.
154	0410	10-11	-		+	F	-		+	
	0420		+	F	+	F	-		+	
	0450		+	G	+	F	-		+	
	0520		+	P	+	F	-		+	
	0620		+	G	+	F	-		+	
	1300		EOL							
	2300	13-14	+	G	+	F	-		+	
155	0015		+	G	+	P	-		+	
	0110		+	G	+	F	-		+	
	0300		+	G	+	P	-		+	
	0330		+	G	+	G	-		+	
	0710		+	G	+	F	-		+	
	1235		EOL							
	1350	10-11	+	G	+	F	-		+	
	1920		EOL							
	2120	11-12	+	G	+	F	-		+	
156	0400		+	F	+	F	-		+	
	0640		EOL							

HUD81 PHASE II

Day	Time	Line	Sidescan	Qual.	Huntec DTS	Qual.	Reflectivity	Qual.	12 kHz	Qual.
156	0720	12-20	+	P	+	F	-		+	
	1040		+	F	+	F	-		+	
	1220		+	F	-		-			
	1420		EOL							
	1715	16-15	+	G	+	F	-		+	
	1820		+	P	+	F	-		+	
	2210		+	P	+	G	-		+	
	2220		+	G	+	G	-		+	
157	0002		+	G	+	F	-		+	
	0050		+	G	+	G	-		+	
	0200		+	P	+	G	-		+	
	0240		+	F	+	G	-		+	
	0400		+	G	+	G	-		+	
	0550		EOL							
	0600	15-18	+	G	-		-		-	
	0618		+	G	+	G	-		-	
	0740		+	G	+	F	-		-	
	0800		+	P	+	F	-		-	
	0935		EOL							

HUD81 PHASE II

Day	Time	Line	Sidescan	Qual.	Huntec DTS	Qual.	Reflectivity	Qual.	12 kHz	Qual.
157	1640	18-17	+	G	+	F	-		+	
	2000		+	F	+	F	-		+	
	2210		+	F	+	G	-		+	
158	0200		+	F	+	F	-		+	
	0320		EOL							
158	1000	22-21	+	P	+	F	-		+	
	1110		+	F	+	F	-		+	
	1600		+	F	+	G	-		+	
	1820		+	F	+	F	-		+	
	1918		EOL							
159	0920	25-26	-		+	F	-		-	
	1244		EOL							

PAN82/PGC-04

Day	Time	Line	Sidescan	Qual.	Huntec DTS	Qual.	Reflectivity	Qual.	12 kHz	Qual.
202	2200	9	+	F	-		-		-	
	2300		+	G	-		-		-	
203	0330		+	F	-		-		-	
	0445		EOL							
	1630	7	+	F	-		-		-	
	1700		+	G	-		-		-	
	2256		EOL		-		-		-	
	2328	5	+	F	-		-		-	
204	0100		+	G	-		-		-	
	0610		+	F	-		-		-	
	0634		EOL							
	0640	5a	+	G	-		-		-	
	0810		EOL							

VEC84B/PGC-03

Day	Time	Line	Sidescan	Qual.	Huntec DTS EXT. CHAN.	Qual.	HUNTEC DTS INT. CHAN.	Qual.	Reflectivity	Qual.	12 kHz
151	1245	2	+	F	+	G	+	G	+	G	+
	1340		+	G	+	G	+	G	+	G	+
	1520		+	G	+	G	+	P	+	G	+
	1540		+	F	+	G	+	P	+	G	+
	1600		EOL								
151	1738	3	+	G	+	P	+	P	+	F	+
	1800		+	G	+	G	+	P	+	F	+
	1808		+	G	+	G	+	P	+	G	+
	1856		+	G	+	F	+	P	+	G	+
	2014		+	G	+	F	+	F	-		+
	2018		+	G	-		+	F	-		+
	2040		+	G	-		+	F	-		+
	2044		+	G	+	F	+	F	-		+
	2046		+	G	+	F	+	F	+	P	+
	2100		EOL								
151	2140	4	+	G	+	G	+	G	+	G	+
	2210		+	G	+	G	+	G	-		+
	2246		+	G	+	G	+	G	+	F	+
	2340		+	G	+	G	+	G	+	G	+
	2354		+	G	+	F	+	G	+	G	+
152	0104		EOL								

VEC84B/PGC-03

Day	Time	Line	Sidescan	Qual.	Huntec DTS EXT. CHAN.	Qual.	HUNTEC DTS INT. CHAN.	Qual.	Reflectivity	Qual.	12 kHz
152	0232	5	+	G	+	G	+	G	+	F	+
	0300		+	P	+	G	+	G	+	F	+
	0304		+	P	+	F	+	G	+	F	+
	0310		-		+	F	+	G	+	F	+
	0632		EOL								
152	0730	6	-		+	F	+	F	+	F	+
	0944		-		+	P	+	F	+	F	+
	0959		+	G	+	P	+	F	+	F	+
	1044		EOL								
152	1200	7	+	G	+	F	+	G	+	P	+
	1230		+	P	+	F	+	G	+	P	+
	1232		+	P	+	F	+	G	+	G	+
	1246		+	G	+	F	+	G	+	G	+
	1250		+	G	+	P	+	G	+	G	+
	1318		+	G	+	P	+	G	+	P	+
	1326		+	G	+	F	+	G	+	P	+
	1350		+	F	+	F	+	G	+	P	+
	1354		+	F	+	F	+	G	-		+
	1410		+	G	+	F	+	G	-		+
	1427		+	P	+	F	+	G	-		+

VEC84B/PGC-03

Day	Time	Line	Sidescan	Qual.	Huntec DTS EXT. CHAN.	Qual.	HUNTEC DTS INT. CHAN.	Qual.	Reflectivity	Qual.	12 kHz
152	1754	8	-		+	G	+	G	-		+
	1900		+	G	+	G	+	G	-		+
	1908		+	G	+	G	+	G	+	G	+
	2024		+	G	+	G	+	G	+	F	+
	2126		+	G	+	G	+	G	+	G	+
	2143		EOL								
152	2396	10	+	G	+	G	+	G	+	G	+
153	0020		+	P	+	G	+	G	+	G	+
	0110		+	G	+	G	+	G	+	G	+
	0334		+	G	-		+	G	+	G	+
	0408		EOL								
153	0512	11	+	P	+	F	+	G	-		+
	0532		+	P	+	F	+	G	+	G	+
	0702		+	P	+	G	+	G	+	G	+
	0806		+	F	+	G	+	G	+	G	+
	0822		+	F	+	P	+	G	+	G	+
	0842		+	F	+	P	+	G	+	P	+
	0850		+	F	+	F	+	G	+	P	+
	0916		+	F	+	F	+	G	+	G	+
	0946		+	F	+	G	+	G	+	G	+
	1012		EOL								

VEC84B/PGC-03

Day	Time	Line	Sidescan	Qual.	Huntec DTS EXT. CHAN.	Qual.	HUNTEC DTS INT. CHAN.	Qual.	Reflectivity	Qual.	12 kHz
153	1156	12	-		+	F	+	F	+	F	+
	1212		-		-		+	F	+	F	+
	1214		-		-		+	F	-		+
	1230		-		+	G	+	F	-		+
	1232		-		+	G	+	F	+	G	+
	1300		-		+	G	+	G	+	G	+
	1510		EOL								
153	1554	21	-		-		+	G	+	G	+
	1704		-		+	G	+	G	+	G	+
	1812		EOL								
153	1842	13	-		+	G	+	G	+	P	+
	1946		-		+	G	+	G	+	G	+
	2040		+	G	+	G	+	G	+	G	+
	2118		EOL								
153	2152	22	+	G	+	G	+	G	+	G	+
	2315		+	P	+	G	+	G	+	G	+
	2335		+	G	+	G	+	G	+	G	+
	2338		+	G	+	G	+	G	+	P	+
154	0001		EOL								

VEC84B/PGC-03

Day	Time	Line	Sidescan	Qual.	Huntec DTS EXT. CHAN.	Qual.	HUNTEC DTS INT. CHAN.	Qual.	Reflectivity	Qual.	12 kHz
154	0102	14	+	G	-		+	G	+	P	+
	0118		+	G	+	F	+	G	+	P	+
	0120		+	G	+	F	+	G	+	G	+
	0146		+	G	+	G	+	G	+	G	+
	0324		+	G	+	P	+	G	+	G	+
	0344		+	G	+	F	+	G	+	G	+
	0448		EOL								
154	0538	15	+	G	+	F	+	G	+	P	+
	0640		+	P	+	F	+	G	+	P	+
	0652		+	P	+	F	+	G	+	F	+
	0700		+	G	+	F	+	G	+	F	+
	0750		+	G	+	P	+	G	+	F	+
	0954		EOL								
154	1041	16	+	G	+	G	+	G	+	G	+
	1226		+	G	+	P	+	G	+	G	+
	1254		+	G	+	P	+	G	+	P	+
	1258		+	G	-		+	G	+	P	+
	1312		+	G	-		+	G	-		+
	1330		+	G	-		+	G	+	F	+
	1350		+	G	-		+	G	+	G	+
	1418		EOL								

VEC84B/PGC-03

Day	Time	Line	Sidescan	Qual.	Huntec DTS EXT. CHAN.	Qual.	HUNTEC DTS INT. CHAN.	Qual.	Reflectivity	Qual.	12 kHz
154	2232	17	+	G	-		+	G	+	G	+
	2356		+	G	-		+	P	-		+
155	0020		+	P	-		+	P	-		+
	0024		+	P	-		+	G	+	G	+
	0234		EOL								
155	0746	18	+	G	-		+	G	+	G	+
	0920		+	P	-		+	G	+	G	+
	1028		+	P	-		+	F	+	P	+
	1045		+	F	-		+	F	+	P	+
	1056		+	F	-		+	G	+	P	+
	1110		+	F	-		+	G	+	F	+
	1150		+	G	-		+	G	+	F	+
	1220		+	G	-		+	P	+	G	+
	1246		+	G	-		+	G	+	G	+
	1700		EOL								
156	1520	27	+	G	-		+	G	+	G	+
	1630		+	P	-		+	G	+	G	+
	1650		+	P	-		+	G	+	G	+
	1658		+	P	-		+	F	+	P	+
	1758		+	P	-		+	G	+	G	+
	1830		+	G	-		+	G	+	G	+
	1950		+	G	-		+	G	+	G	+
	2026		+	G	-		+	G	+	F	+
	2045		+	G	-		+	G	-		+

VEC84B/PGC-03

Day	Time	Line	Sidescan	Qual.	Huntec DTS EXT. CHAN.	Qual.	HUNTEC DTS INT. CHAN.	Qual.	Reflectivity	Qual.	12 kHz
156	2110	27	+	F	-		+	G	-		+
	2130	(cont.)	+	P	-		+	G	-		+
	2210		+	P	-		+	G	+	G	+
	2224		EOL								
157	0010	25	+	F	-		+	G	+	G	+
	0146		+	F	-		+	G	+	P	+
	0208		+	F	-		+	P	-		+
	0230		+	F	-		+	P	-		+
	0232		+	F	-		-		-		+
	0258		+	F	-		+	G	+	F	+
	0312		+	F	-		+	G	+	G	+
	0330		+	F	-		+	G	+	G	+
	0400		+	G	-		+	G	+	G	+
	0428		+	G	-		+	G	+	P	+
	0502		EOL								
157	0620	24	+	F	-		+	G	+	G	+
	0640		+	F	-		+	G	+	F	+
	0700		+	G	-		+	G	+	F	+
	0820		+	G	-		+	G	+	P	+
	0900		+	G	-		+	G	+	P	+
	0904		+	G	-		+	G	+	G	+
	0920		+	F	-		+	G	+	G	+
	0936		+	F	-		+	G	+	P	+
	1010		+	G	-		+	G	+	P	+

END84B

Day	Time	Line	Sidescan	Qual.	Huntec DTS EXT. CHAN.	Qual.	HUNTEC DTS INT. CHAN.	Qual.	Reflectivity	Qual.	12 kHz
200	1030	1	-		+	F	+	G	+	P	+
	1230		-		+	G	+	G	+	G	+
	1850		-		+	G	+	G	+	F	+
	2000		-		+	G	+	G	+	P	+
	2100		-		+	G	+	G	+	F	+
	2124		EOL								
201	0001	2	-		+	G	+	G	+	G	+
	0110		-		+	G	+	G	+	P	+
	0330		-		-		-		-		+
	0540		-		+	G	+	G	+	G	+
	0543		EOL								
201	0603	3	-		+	G	+	G	+	G	+
	0740		-		-		-		-		+
	1140		EOL								
201	1230	4	-		+	G	+	G	+	G	+
	1420		-		+	G	+	G	+	P	+
	1745		EOL								
201	1828	5	-		+	G	+	G	+	F	+
	1940		-		+	G	+	G	+	G	+
	2015		-		+	G	+	G	+	P	+
	2203		-		+	G	+	G	+	F	+
	2338		EOL								

END84B

Day	Time	Line	Sidescan	Qual.	Huntec DTS EXT. CHAN.	Qual.	HUNTEC DTS INT. CHAN.	Qual.	Reflectivity	Qual.	12 kHz
202	0050	6	-		+	G	+	F	+	G	+
	0140		-		+	G	+	F	+	F	+
	0220		-		+	G	+	F	+	P	+
	0450		-		+	G	+	F	+	F	+
	0659		EOL								
202	0800	7	-		+	G	+	F	+	F	+
	0930		-		+	G	+	F	+	P	+
	1100		-		+	G	+	F	+	F	+
	1130		-		+	G	+	F	+	P	+
	1240		-		+	G	+	F	+	G	+
	1430		EOL								
202	1650	9	-		+	G	+	G	+	G	+
	2127		-		+	G	+	G	-		+
	2150		-		+	G	+	G	+	G	+
	2219		EOL								
203	0035	10	-		+	G	+	G	+	G	+
	0948		EOL								
203	1028	11	-		+	G	+	G	+	G	+
	1300		EOL								

END84B

Day	Time	Line	Sidescan	Qual.	Huntec DTS EXT. CHAN.	Qual.	HUNTEC DTS INT. CHAN.	Qual.	Reflectivity	Qual.	12 kHz
203	1410	3	-		+	G	+	G	+	F	+
	1445		-		+	G	+	G	+	G	+
	1500		-		+	G	+	G	+	F	+
	1525		-		+	G	+	G	+	G	+
	1610		EOL								
204	0200	12	-		+	G	+	P	+	G	+
	0320		-		+	G	+	F	+	G	+
	0410		-		+	G	+	G	+	G	+
	0525		EOL								

Descriptions of Biogenic

Carbonate Content

SAMPLE NUMBER: GBR79A-12

SAMPLE COMPOSITION: less than 1% whole shell
40% broken shell
60% gravel

MISCELLANEOUS: gravel mostly clean; broken shell- many large unidentifiable pieces; pieces of shell with boring sponge holes; encrusting sponges on pieces of seaweed; encrusting bryozoans on broken shell; very few broken barnacles; piece of black barnacle shell; chitinous worm tubes (several).

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Pododesmus macroschisma*	rare	38 mm; 1 shell; worn.
	Tellina salmonea	present	to 13 mm; 1 drilled; worn.
	Hiatella arctica	rare	17 mm; 1 shell; worn, chipped and drilled.
	Glycymeris subobsoleta	rare	21 mm; 1 shell worn and drilled.
GASTROPODA	*Olivella baetica*	scarce	about 10 mm; 3-4 shells; worn and chipped; 1 drilled.

SAMPLE NUMBER: GBR79A-70

SAMPLE COMPOSITION: 20% whole shell
75% broken shell, mainly broken barnacles.
less than 5% gravel

MISCELLANEOUS: occasional old shell with boring sponge holes; erect bryozoans- rare.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Pododesmus macroschisma*	scarce	13-45 mm; worn; 1 shell with encrusting bryozoans.
	Glycymeris subobsoleta	very abundant	5-30 mm; worn; occasional small shell (10 mm) drilled; 2-20 mm shells in good condition, with periostracum.
	Miodontiscus prolongata	present	3-5 mm; worn.
	Semele rubropicta	rare	1 shell; 38 mm; worn and drilled.
	Chlamys sp.	rare	1 shell; 50 mm; well worn and drilled.
	Astarte alaskensis	scarce	3 shells; 5 and 7 mm; worn.
	Humilaria kennerlyi	rare	2 shells; to 13 mm; somewhat worn.
	Cyclocardia ventricosa	present	5-14 mm; somewhat worn to well worn condition; largest shell with holes (burrowing sponge?)
GASTROPODA	*Olivella baetica*	scarce	3 shells; 18 mm; well worn and good condition.
	Thais emarginata	present	5-8 mm; worn; some broken.
	Acteocina culcitella	rare	1 shell; worn and drilled.
	Crepipatella lingulata	rare	1 shell; 10 mm; somewhat worn and chipped.
SCAPHOPODA	*Dentalium pretiosum*	scarce	2 shells; 25 and 32 mm; worn; 1 drilled; plus fragments.
BRACHIOPODA	*Terebratalia transversa*	rare	2 shells; 7 mm; worn.

SAMPLE NUMBER: GBR79A-85

SAMPLE COMPOSITION: 10% whole shell
90% broken shell

MISCELLANEOUS: most shells (whole and broken) worn; some evidence of drill activity; erect bryozoans-rare, some evidence of wear; encrusting bryozoans, rare, a few small patches on very worn *Glycymeris*;barnacles, rare, present on whole shell.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
AMPHINEURA	unidentified chiton plate	rare	slightly worn.
PELECYPODA	*Astarte alaskensis*	rare	5 mm; juvenile.
	Pododesmus macroschisma	rare	1 cm; 1 juvenile; drilled.
	Glycymeris subobsoleta	common	all sizes to 2.0 cm; small shells (less than 7mm) less worn; larger shells well worn and/or broken; a few with encrusting bryozoans; some shells drilled.
	Miodontiscus prolongatus	rare	5 mm; shells worn.
	Cyclocardia crassidens	present	4-10 mm; larger shells worn and chipped; smaller shells intact.
	Chlamys rubidus	present	5 mm to 2.0 cm; older shells more worn.
	Diplodonta orbellus	rare	1 shell; slightly chipped
	Tellina salmonea	present	shells worn; 1 shell drilled.
	Humilaria kennerlyi	rare	1 well-worn specimen.
	Gari californica	rare	1 shell; broken, somewhat worn.
GASTROPODA	*Homalopoma luridum*	rare	5-8 mm; specimens worn or chipped.
	Crepipatella lingulata	rare	8 mm; 1 chipped specimen.
	Puncturella multistriata	rare	5 mm; 1 specimen; good condition.
	Olivella baetica	present	all specimens worn; some broken; several with drill holes.
	Amphissa columbiana	rare	good condition.
SCAPHOPODA	*Dentalium pretiosum*	rare	worn; broken segments.
BRACHIOPODA	*Terebratalia transversa*	rare	1 complete shell with halves joined, 5 mm; 1 worn and chipped, 5 mm.

SAMPLE NUMBER: GBR79A-90

SAMPLE COMPOSITION: 10% whole shell
85% broken shell
5% rocks (2-3 cm)

MISCELLANEOUS: predominantly broken barnacle shells; occasional serpulid and encrusting bryozoans on worn shell or stones; occasional drilled bivalve shell; occasional erect bryozoan.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Glycymeris subobsoleta*	very abundant	3-35 mm; very few in good condition; most in worn condition; several in well worn condition.
	Humilaria kennerlyi	present	7-42 mm; worn; 1 specimen with bryozoans and serpulids.
	Pododesmus macroschisma	present	1-45 mm specimen well worn and broken; remainder 2-12 mm; broken and worn.
	Chlamys sp.	scarce	2 broken well worn specimens; 27 and 42 mm; encrusted with bryozoans and serpulids.
	Chlamys hericia	rare	1 specimen; 4 mm; somewhat worn.
	Chlamys rubida	rare	2 specimens; 1 cm and 2 cm; chipped; worn.
	Nemocardium centifilosum	rare	1 specimen; 5 mm; somewhat worn.
	Diplodonta orbellus	scarce	3 specimens, 10-12 mm; somewhat worn; 1 with serpulids.
	Tellina salmonea	rare	1 specimen; about 1 cm; worn.
	Miodontiscus prolongata	scarce	2 specimens; 5 mm; somewhat worn.
	Cyclocardia ventricosa	present	7 shells; 4-12 mm; somewhat to well worn; 1 shell with bore holes (sponge?)
GASTROPODA	*Puncturella cucullata*	scarce	2 shells; 5 mm; somewhat worn.
	Puncturella multistriata	present	7 shells; 5-8 mm; worn.
	Notoacmea persona	present	6 shells; 3-9 mm; worn.
	Calyptraea fastigiata	scarce	3 shells; 6-9 mm; worn.
	Crepipatella lingulata	scarce	4 shells; 3-7 mm; worn.
	Olivella baetica	rare	1 shell; 19 mm; good condition.
	Homalopoma luridum	scarce	4 shells; 4-6 mm; worn; broken.
	Calliostoma annulatum	rare	1 shell; 6 mm; worn; broken.
	Acteocina culcitella	rare	1 shell; 4 mm; womewhat worn.
	Thais emarginata	rare	1 shell; 5 mm; somewhat worn; drilled.
	unidentified gastropod # 1	rare	1 shell; 5 mm; somewhat worn.

SAMPLE NUMBER: GBR79A-100

SAMPLE COMPOSITION: 30% whole shell
70% broken shell

MISCELLANEOUS: broken shells mainly barnacles; barnacles of 1 worn *Glycymeris* shell; occasional erect bryozoans; drilled shells present.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
AMPHINEURA	unidentifed chiton plate	rare	1 broken, worn plate.
PELECYPODA	*Glycymeris subobsoleta*	very abundant	dominant species; 5-35 mm; somewhat worn to worn condition.
	Pododesmus macroschisma	scarce	20-35 mm; well worn and broken.
	Humilaria kennerlyi	rare	1 shell; 20 mm; somewhat worn.
	Diplodonta orbellus	rare	1 shell; 20 mm; worn; encrusting bryozoan on inside of shell.
	Semele rubropicta	rare	1 shell; 35 mm; worn and broken.
	Tellina salmonea	present	to 15 mm; worn, chipped and many drilled.
	Miodontiscus prolongata	present	3-5 mm; worn.
	Cyclocardia ventricosa	scarce	several shells to 15 mm; one drilled and broken.
	Cyclocardia crassidens	rare	5 mm; worn and broken.
GASTROPODA	*Olivella baetica*	present	12-15 mm; somewhat worn; 1 shell drilled.
	Homalopoma luridum	rare	5 mm; worn and broken.
	Puncturella multistriata	scarce	4 shells; 3-9 mm; worn.
SCAPHOPODA	*Dentalium pretiosum*	rare	1 shell; 12 mm; worn.

SAMPLE NUMBER: GBR79A-153

SAMPLE COMPOSITION: 15% whole shell
75% broken shell
10% gravel

MISCELLANEOUS: barnacle bits; encrusting bryozoans rare on rocks, not noted on shells or shell fragments.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELCYPODA	*Tellina salmonea*	abundant	whole and broken shell; adults and juveniles present; some larger shells with drill holes.
	Pododesmus macroschisma	scarce	few juveniles; mostly whole shells.
	Glycymeris subobsoleta	scarce	mainly juveniles under 5 mm; shells both in good condition and worn condition.
	Hiatella arctica	rare	1 small specimen; good condition.
GASTROPODA	*Olivella baetica*	rare	shells whole; good condition.

SAMPLE NUMBER: GBR79A-154

SAMPLE COMPOSITION: 10% whole and broken shell
90% rock

MISCELLANEOUS: *Balanus glandula*, rare, cluster of 3 on rock, 2 barnacles whole, one broken; bryozoans, rare, erect (rather than encrusting) form; a few unidentified barnacle fragments.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Pododesmus macroschisma*	present	mainly juveniles less than 1 cm; shells in good condition with slight chipping; 1 broken adult shell, slightly worn; 1 black specimen, broken.
	Tellina salmonea	abundant	shells mainly 10-12 mm long; most had periostracum partially or completely worn away; whole and broken shells.
	Chlamys hericia	rare	1 juvenile; shell chipped.
	Glycymeris subobsoleta	scarce	5 mm- 1.5 cm; small shells worn.
	Miodontiscus prolongata	rare	1 worn specimen.
	Mactra californica	rare	2 specimens less than 1 cm; good condition, 1 chipped.
GASTROPODA	*Olivella baetica*	scarce	shells whole; some worn, most in excellent condition.
	Calyptraea fastigiata	rare	1 juvenile specimen 4 mm diameter; shell whole.

SAMPLE NUMBER: GBR79A-157

SAMPLE COMPOSITION: 20% whole shell
60% broken shell
20% gravel

MISCELLANEOUS: broken barnacles; erect bryozoans; gravel and shell free of encrusting bryozoans etc.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Glycymeris subobsoleta*	scarce	5 mm-2.5 cm; good to worn condition.
	Tellina salmonea	common	8-13 mm; worn; few drilled.
	Chlamys sp.	rare	2 shells; 7-10 mm; somewhat worn.
	Pododesmus macroschisma	scarce	shells 7-8 mm; worn and chipped.
	Pandora grandis	rare	1 shell; 25 mm; worn and chipped.
GASTROPODA	*Puncturella multistriata*	rare	1 shell; 7 mm; well worn.
	Olivella baetica	abundant	7-17 mm; most worn; about 30% good condition.
	Halistylus pupoides	rare	1 shell; 5 mm; worn.
SCAPHOPODA	*Dentalium pretiosum*	rare	1 shell; 1 cm; worn.

SAMPLE NUMBER: GBR79A-178

SAMPLE COMPOSITION: 30% whole shell
20% broken shell
50% rock/gravel

MISCELLANEOUS: occasional shell encrusted with barnacles and bryozoans; occasional shell drilled; rocks mostly clean; 1 calcareous worm tube (unattached).

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Glycymeris subobsoleta*	very abundant	5mm-2.5 cm; most worn, some somewhat worn condition.
	Miodontiscus prolongata	scarce	4-6 mm; several shells; worn.
	Pododesmus macroschisma	scarce	3 shells; worn and broken; 1 encrusted with bryozoans.
	Astarte alaskensis	present	8-15 mm; worn.
	Cyclocardia ventricosa	rare	7 mm and 12 mm; 2 shells; 1 broken, both worn.

SAMPLE NUMBER: GBR79A-180

SAMPLE COMPOSITION: 10% whole shell
70% broken shell
20% gravel

MISCELLANEOUS: unidentified barnacle fragments; drill holes in some Pelecypoda and Gastropoda; encrusting bryozoans, mostly on worn shell; *Balanus glandula* on *Chlamys rubida* shell, whole, in good condition.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Pododesmus macroschisma*	rare	small specimens
	Chlamys rubida	present	juveniles and 1 adult; whole shells in good condition; barnacle on adult shell; lots of broken, worn shells.
	Panope generosa	rare	1 specimen.
	Tellina salmonea	rare	shells whole, in good condition.
	Astarte alaskensis	rare	shells whole, in good condition.
	Protothaca staminea	abundant	shell size varies from 5 mm - 4 cm. most somewhat worn; several with drill holes.
	Miodontiscus prolongata	present	shells somewhat worn- no periostracum; 3-5 mm.
	Glycymeris subobsoleta	common	most shells somewhat worn; all sizes juvenile (5 mm) to adult 2.5 cm.
GASTROPODA	*Olivella baetica*	rare	whole and fragments; whole shell in good condition; fragments somewhat worn.
SCHAPHOPODA	*Dentalium pretiosum*	scarce	whole shells generally in good condition; 1 whole shell worn; fragments worn.
BRACHIOPODA	*Laqueus californianus*	rare	1 worn brachial valve.

SAMPLE NUMBER: GBR79A-193

SAMPLE COMPOSITION: 30% whole shell
40% broken shell, including barnacle fragments
30% rock

MISCELLANEOUS: broken barnacle shells present, about 2% of sample; 1 small piece of erect bryozoan.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Chlamys rubida*	rare	2 broken shells.
	Humilaria kennerlyi	rare	2 worn shells.
	Glycymeris subobsoleta	very abundant	dominant; 50% worn, occasional encrusting bryozoans and serpulid, 10% drilled; 50% somewhat worn.
	Astarte alaskensis	rare	1 worn shell.
GASTROPODA	*Homalopoma luridum*	scarce	3 worn and broken shells; 1 with encrusting bryozoan.
BRACHIOPODA	*Terebratalia transversa*	rare	2 broken worn shells.

SAMPLE NUMBER: GBR79A-194

SAMPLE COMPOSITION: 60% whole shell
30% broken shell
10% rock

MISCELLANEOUS: encrusting bryozoans present, mostly on worn shell; erect bryozoans rare; encrusting worm tubes rare, on worn shell; barnacles, scarce, on rocks, etc. in sample, some fragments.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Astarte alaskensis*	rare	1 broken shell; periostracum worn off.
	Miodontiscus prolongata	rare	shell whole, slightly worn.
	Glycymeris subobsoleta	very abundant	more than 50% of the shells are very worn; some encrusted with bryozoans; size range is great 4 mm to 2.5 cm.
	Cyclocardia crassidens	rare	1specimen; worn, encrusted with bryozoans on inside.
	Cyclocardia ventricosa	rare	2 specimens 1 cm; good condition.
	Chlamys hericia	rare	7-8 mm; good condition.
	Humilaria kennerlyi	rare	1 adult; encrusted with barnacles and bryozoans.
	Diplodonta orbellus	rare	1 specimen.
GASTROPODA	*Homalopoma luridum*	scarce	mostly good condition; 1 large worn shell.
	Amphissa columbiana	scarce	range of sizes to adult; shells in good condition.
	Calyptraea lingulata	rare	1 broken adult shell.
	Puncturella multistriata	rare	shells in good condition; 1 chipped.
	Puncturella cucullata	rare	shells broken; worn or chipped.
	Notocamea persona	rare	shells worn and/or chipped; 1 cm or less.
BRACHIOPODA	*Terebratalia transversa*	rare	shells in good condition; some slightly chipped.

SAMPLE NUMBER: GBR79A-203

SAMPLE COMPOSITION: 20% whole shell
40% broken shell
40% gravel

MISCELLANEOUS: broken shell is about 50% barnacles; few encrusting bryozoans on old worn shell; occasional bored shell; few erect bryozoans pieces.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Pododesmus macroschisma*	rare	1 shell; 26 mm; worn; encrusted with bryozoans.
	Chlamys rubida	rare	2 shells; 1 and 2 cm; worn.
	Glycymeris subobsoleta	common	3-25 mm; good condition to worn condition; some encrusted with bryozoans.
	Diplodonta orbellus	rare	1 shell; 15 mm; somewhat worn.
	Miodontiscus prolongata	scarce	several shells to 5 mm; worn.
	Humilaria kennerlyi	rare	2 shells; 3 and 10 mm; worn.
	Tellina salmonea	rare	2 shells; 8 mm; somewhat worn.
	Pandora filosa	rare	1 shell; about 12 mm; worn and drilled.
GASTROPODA	*Olivella baetica*	scarce	2 shells; about 14 mm; well worn.
	Calyptraea fastigiata	rare	1 shell; 3 mm; worn and chipped.
	Halistylus pupoides	rare	2 shells; 2 mm; worn.
SCAPHOPODA	*Dentalium pretiosum*	rare	1 shell; 35 mm; worn.

SAMPLE NUMBER: GBR79A-233

SAMPLE COMPOSITION: 5% whole shell
10% broken shell
85% rock

MISCELLANEOUS: barnacle fragments; encrusting bryozoans, rare, on gravel.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Tellina salmonea*	common	dominant shell in sample; shells mainly adults; good condition-periostracum and internal colour still present; a few with drill holes.
	Glycymeris subobsoleta	scarce	mostly juveniles less than 1 cm; 1 specimen 1.5 cm; good condition.
	Pododesmus macroschisma	rare	1 small broken shell.
GASTROPODA	*Olivella baetica*	rare	1 broken shell.

SAMPLE NUMBER: GBR79A-235

SAMPLE COMPOSITION: 20% whole shell
10% broken shell
70% rock/gravel with brnacles on larger rocks and encrusting bryozoans.

MISCELLANEOUS: barnacle fragments; encrusting bryozoans.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Chlamys rubida*	rare	1 cm; 1 slightly worn shell.
	Pododesmus macroschisma	rare	about 2.5 cm; 1 worn, chipped shell with encrusting bryozoans.
	Humilaria kennerlyi	rare	less than 1 cm; 1 slightly chipped shell.
	Glycymeris subobsoleta	common	most somewhat worn; several good condition; 1 specimen 1.5 cm - worn; remainder less than 1 cm.
GASTROPODA	*Thais emarginata*	rare	about 1 cm; somewhat worn; 1 drilled.
	Homalopoma luridum	scarce	3 broken worn shells to 7 mm.
	Thais canaliculata	rare	2 worn shells; 1 cm; 1.5 cm.
	Olivella baetica	rare	1 somewhat worn; about 2 cm.

SAMPLE NUMBER: GBR79A-239

SAMPLE COMPOSITION: 15% whole shell
75% broken shell (including barnacles)
10% rock

MISCELLANEOUS: erect bryozoans, rare, some good condition, 1 specimen worn, has encrusting bryozoans on it; encrusting bryozoans, present, on most shells and large fragments showing signs of wear; *Strongylocentrotus purpuratus*, rare, spines broken, not badly worn; barnacles, rare, whole specimen.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Chlamys sp.* (too worn to identify species)	rare	1 shell; very worn; definite identification difficult to make.
	Astarte alaskensis	rare	2 shells; somewhat worn.
	Miodontiscus prolongata	rare	3 shells; 2 periostracum still partially present; 1 slightly worn.
	Glycymeris subobsoleta	present	5 mm-1.5 cm; some of the larger shells are worn.
GASTROPODA	*Thais lamellosa*	rare	1 broken adult specimen; worn.
	Homalopoma luridum	rare	2 moderately worn specimens; 5-7 mm; few fragments.
	Puncturella multistriata	rare	1 small specimen; good condition.
	Calyptraea fastigiata	rare	1 shell; adult; several more worn pieces.
	Amphissa columbiana	rare	1 shell, 6 mm; worn.
	Cyclocardia crassidens	rare	2 juveniles.
	Columbella gausapata	rare	1 specimen; 7 mm.
SCAPHOPODA	*Dentalium pretiosum*	rare	1 small specimen.
BRACHIOPODA	*Terebratalia transversa*	scarce	1 whole adult, partially encrusted with bryozoans; a few broken shells.

SAMPLE NUMBER: GBR79A-244

SAMPLE COMPOSITION: 10% whole shell
40% broken shell (including barnacles)
50% rock with encrusting bryozoans, serpulids and barnacles

MISCELLANEOUS: barnacle fragments; encrusting bryozoans; 2 broken pieces of erect bryozoans about 1 cm long.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Pododesmus macroschisma*	scarce	worn; white colouration.
	Chlamys rubida	scarce	somewhat worn with encrusting bryozoans.
	Glycymeris subobsoleta	common	maximum size to 1 cm; occasional specimen drilled.
	Humilaria kennerlyi	rare	1, worn and broken.
GASTROPODA	*Olivella baetica*	scarce	2 broken, somewhat worn.
	Amphissa columbiana	rare	1 broken.
	Searlesia dira	rare	1 somewhat worn.
	Calliostoma sp.	rare	1 worn.
	Crepipatella lingulata	scarce	3 broken and somewhat worn.
	Calyptraea fastigiata	rare	1 broken.

SAMPLE NUMBER: GBR79B-5

SAMPLE COMPOSITION: 20% whole shell
10% broken shell
70% rock/gravel

MISCELLANEOUS: rocks and shells with encrusting bryozoans, serpulids, barnacles; erect bryozoans; occasional shell is drilled.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
CORALS	*Balanophyllia elegans*	rare	one 5 mm specimen on a *Chlamys* shell; well worn.
PELECYPODA	*Chlamys hericia*	rare	1 specimen; about 15 mm; somewhat worn.
	Chlamys rubida	rare	2 specimens; about 15 mm; somewhat worn; (1 specimen with *Balanophyllia* (see above) barnacles, encrusting bryozoans, and serpulids- well worn and chipped).
	Glycymeris subobsoleta	abundant	most well worn; 4-30 mm; several somewhat worn; several drilled; many broken.
	Humilaria kennerlyi	rare	2 shells; to 1 cm; 1 broken; both worn.
	Miodontiscus prolongata	scarce	3 shells; 4 mm; somewhat worn.
	Tellina salmonea	rare	1 shell; 8 mm; well worn.
GASTROPODA	*Amphissa columbiana*	present	5-14 mm; worn.
	Homalopoma luridum	scarce	3-6 mm; worn and broken.
	Trichotropis cancellata	rare	1 specimen; about 1.5 cm; somewhat worn.
	Puncturella cucullata	rare	1 specimen; 5 mm; good condition.
	Puncturella multistriata	rare	1 specimen; 8 mm; somewhat worn.
	Calyptraea fastigiata	rare	1 specimen; 12 mm; somewhat worn.
	Crepipatella lingulata	rare	1 specimen; 7 mm; worn and chipped.
	Notoacmea persona	rare	1 specimen; 8 mm; worn and chipped.
	Searlesia dira	rare	1 specimen; 4 mm; worn.
BRACHIOPODA	*Terebratalia transversa*	scarce	3 specimens; #1 1.7 cm; 2 valves #2 2.5 cm; 1 valve both well worn with barnacles, serpulids and encrusting bryozoans #3 4 mm; 2 valves; somewhat worn.

SAMPLE NUMBER: GBR79B-6

SAMPLE COMPOSITION: 30% whole shell
70% broken shell, including barnacle shells

MISCELLANEOUS: larger *Glycymeris* shells with encrusting bryozoans, barnacles and serpulids; occasional shell drilled; erect bryozoans present, several pieces up to 4 cm; broken shell component predominantly broken barnacles; barnacle scars on larger shells; piece of sea urchin test and 2 broken spines.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Humilaria kennerlyi*	scarce	several shells; 5-28 mm; several about 1 cm; worn.
	Diplodonta orbellus	scarce	about 18 mm; 2 shells with worm burrows; 1 shell with encrusting bryozoans and serpulids; somewhat worn and chipped.
	Glycymeris subobsoleta	very abundant	up to 28 mm; worn.
	Pododesmus macroschisma	scarce	several broken well worn shells to 27 mm.
	Chlamys hericia	rare	1 shell about 1 cm; worn.
	Chlamys sp.	scarce	several well worn, broken shells encrusted with bryozoans, serpulids and barnacles.
	Miodontiscus prolongata	rare	3 shells to 5 mm; worn.
	Astarte alaskensis	rare	2 shells to 9 mm; worn.
	Tellina salmonea	rare	2 shells; about 15 mm; well worn and drilled.
GASTROPODA	*Acmaea mitra*	rare	2 shells; to 12 mm; worn.
	Notoacmea persona	rare	1 shell; about 10 mm; worn and chipped.
	Calyptraea fastigiata	present	8 shells; 3-12 mm; worn and chipped; 1 shell with serpulid on undersurface.
	Crepipatella lingulata	scarce	several shells; 8-12 mm; worn; with serpulids.
	Puncturella multistriata	rare	2 shells to 5 mm; worn.
	Homalopoma luridum	rare	1 shell; 5 mm; worn.
	Thais emarginata	rare	2 shells; 5 and 11 mm; worn; larger shell is drilled.
	Trophonopsis tenuisculptus	rare	2 shells; 27 mm; worn; encrusted with bryozoans and barnacles.
SCAPHOPODA	*Dentalium pretiosum*	rare	1 shell; 4 cm; worn.
BRACHIOPODA	*Terebratalia transversa*	rare	2 shells to 6 mm; worn.

SAMPLE NUMBER: GBR79B-22

SAMPLE COMPOSITION: 50% whole shell
50% broken shell

MISCELLANEOUS: few erect bryozoans; some shells with encrusting bryozoans and barnacles; occasional shell drilled; abundant broken barnacles; several medium sized broken bivalve shells- unidentifiable.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Pododesmus macroschisma*	scarce	12-30 mm; worn and chipped; 1 encrusted with barnacles and a serpulid.
	Humilaria kennerlyi	scarce	5- 10 mm; worn; 1 with drill hole and serpulid on inside of shell.
	Miodontiscus prolongata	scarce	3-5 mm; worn.
	Glycymeris subobsoleta	very abundant	5-27 mm; good condition to well worn; some encrusted with bryozoans; 1 with serpulid; occasional shell with drill hole.
	Chlamys rubida	scarce	13-18 mm; worn; 1 with serpulid and encrusting bryozoans.
	Chlamys hericia	rare	1 shell; 5 mm; worn and broken.
	Cyclocardia ventricosa	scarce	3-8 mm; worn.
	Clinocardium ciliatum	rare	2 shells; worn; 5 mm.
	Cyclocardia crassidens	rare	5-8 mm; well worn.
GASTROPODA	*Homalopoma luridum*	scarce	3-8 mm; worn and broken.
	Amphissa columbiana	scarce	5-8 mm; worn; 1 shell drilled.
	Olivella sp.	rare	10 mm; 1 broken very worn shell.
	Puncturella multistriata	scarce	3-8 mm; broken; worn.
	Crepidula nummaria	rare	1 shell; 5 mm; worn.
	Calyptraea fastigiata	rare	8-10 mm; broken and worn.
	Notoacmea persona	present	5-12 mm; worn.
	unidentified gastropod #3	rare	1 shell; worn and broken; 6 mm.
BRACHIOPODA	*Terebratalia transversa*	rare	2 worn, broken shells; 1 encrusted with bryozoans; 10-12 mm.

SAMPLE NUMBER: GBR79B-34

SAMPLE COMPOSITION: 10% whole shell
85% broken shell
5% gravel

MISCELLANEOUS: several broken pieces of scallop shell with holes of boring sponge; broken pieces of black *Pododesmus* and barnacles.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Tellina salmonea*	very abundant	dominant species; to 12 mm; worn; 5% drilled.
	Pododesmus macroschisma	scarce	2 small chipped shells; about 5 mm.
	Glycymeris subobsoleta	present	to 1 cm in length; worn.
	Chlamys hericia	rare	1 small shell; about 5mm; good condition.
	Spisula falcata	rare	1 somewhat worn shell; 1.7 cm.
	Family Carditidae - unidentified	scarce	2 broken shells.
GASTROPODA	*Mitrella gausapata*	rare	1 slightly worn shell; about 4 mm.
	Olivella sp.	rare	1 broken well worn shell; piece about 8 mm.

SAMPLE NUMBER: GBR79B-35

SAMPLE COMPOSITION: 20% whole shell
40% broken shell
40% gravel

MISCELLANEOUS: gravel clean; encrusting bryozoans, barnacles, boring worm/sponge holes in many shells; occasional shell drilled; occasional serpulid; broken barnacles; several large pieces of bivalve shell-unidentifiable.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Pododesmus macroschisma*	present	7mm-4cm; worn; broken, encrusted with bryozoans and barnacles (1 piece black).
	Glycymeris subobsoleta	present	5-28 mm; good condition(few), somewhat worn (most), well worn (few), occasionally encrusted with bryozoans and barnacles.
	Tellina salmonea	abundant	5-15 mm; worn, chipped occasional shell encrusted with bryozoans; occasional shell drilled.
	Humilaria kennerlyi	rare	9 mm; 1 shell; worn.
GASTROPODA	*Olivella baetica*	rare	10 mm; 1 shell-broken; worn.
	Thais emarginata	rare	5 mm; 1 shell-broken and worn.

SAMPLE NUMBER: GBR79B-36

SAMPLE COMPOSITION: 5% whole shell
90% broken shell
5% gravel

MISCELLANEOUS: encrusting bryozoans, baranacles and serpulids; erect bryozoans.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Pododesmus macroschisma*	present	2 large broken pieces; about 40 mm; encrusted heavily with serpulids and bryozoans; also somewhat worn and chipped; 10 shells; 5-12 mm.
	Glycymeris subobsoleta	present	3 mm - 1 cm; worn and broken.
	Tellina salmonea	present	5-10 mm; worn and chipped; 2 drilled.
	Mactra californica	rare	2 shells; 15-25 mm; chipped, broken and worn; 1 drilled.
	Chlamys hericia	rare	1 shell; 3 mm; good condition.
	Hiatella arctica	rare	1 shell; 10 mm; worn.
GASTROPODA	*Mitrella gausapata*	rare	7 mm; worn.
	Notoacmea persona	rare	2 shells; 6 mm; worn, chipped.
	Puncturella multistriata	rare	1 shell; 4 mm; somewhat worn.
	Crepipatella lingulata	rare	2 shells; 3 mm; somewhat worn and chipped.
	Calyptraea fastigata	rare	1 shell; 4 mm; worn and chipped

SAMPLE NUMBER: GBR79B-37

SAMPLE COMPOSITION: 25% whole shell
75% broken shell (including broken barnacles)
trace of gravel

MISCELLANEOUS: 1 *Glycymeris* shell encrusted with barnacles; 1 large piece (4 cm) barnacle test *B. nubilis*?; several pieces of erect bryozoans.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Chlamys hericia*	rare	1 small (4 mm) shell in good condition.
	Chlamys rubida	scarce	≤1 cm; 3 shells moderately worn.
	Glycymeris subobsoleta	common	≤2 cm; most ≤1 cm; several drilled; worn.
	Tellina salmonea	common	≤1.5 cm; moderately worn and chipped
	Pododesmus macroschisma	present	2-2.5 cm, worn; several ≤1 cm, worn.
GASTROPODA	*Olivella baetica*	present	15 mm, worn; 1 in good condition; 1 drilled.
	Thais emarginata	rare	1 broken, worn shell.

SAMPLE NUMBER: GBR79B-44

SAMPLE COMPOSITION: 30% whole shell
70% broken shell

MISCELLANEOUS: broken barnacles; drilled shells common.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Glycymeris subobsoleta*	abundant	5-30 mm; worn; some drilled; some with boring sponge or worm holes.
	Chlamys sp.	rare	1broken piece (1 cm) of shell; worn.
	Tellina salmonea	common	5-12 mm; worn.
	Humilaria kennerlyi	rare	5 mm; 1 shell; well worn.
GASTROPODA	*Olivella baetica*	present	6-12 mm; worn; broken.
	Thais emarginata	rare	6 mm; 1 broken, worn shell.
SCAPHOPODA	*Dentalium pretiosum*	rare	1-15 mm; worn.

SAMPLE NUMBER: VEC81B-14B

SAMPLE COMPOSITION: 25% whole shell
70% broken shell
5% rock/gravel

MISCELLANEOUS: broken barnacles very abundant; encrusting bryozoans, barnacles, and serpulids on many shells; occasional shell drilled and/or with boring sponge holes; erect bryozoans-scarce; serpulids-rare; sea urchin test (fragments) rare.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Chlamys rubida*	scarce	5-22 mm; worn and broken.
	Chlamys hericia	rare	5-8 mm; worn.
	Glycymeris subobsoleta	very abundant	5-27 mm; worn; often encrusted with bryozoans, serpulids and barnacles; some drilled.
	Pododesmus macroschisma	present	18-25 mm; worn and broken; encrusted with bryozoans and serpulids inside and out; some with boring sponge holes.
	Humilaria kennerlyi	scarce	7-12 mm; worn and broken.
	Cyclocardia crassidens	present	5-15 mm; worn.
	Cyclocardia ventricosa	present	3-6 mm; worn.
	Semele rubropicta	rare	32 mm; worn; encrusted with bryozoans, inside; few boring sponge holes.
	Miodontiscus prolongata	rare	3-5 mm; worn.
	Astarte alaskensis	rare	6-9 mm; worn.
	Diplodonta orbellus	rare	9-20 mm; worn and broken; encrusted with bryozoans and serpulids, inside and out.
GASTROPODA	*Puncturella multistriata*	scarce	5-10 mm; worn.
	Puncturella cucullata	rare	6 mm; worn and broken.
	Notoacmea persona	rare	5-9 mm; worn.
	Crepipatella lingulata	scarce	5-14 mm; worn; often with encrusting bryozoans on outside; 1 shell drilled.
	Calyptraea fastigiata	scarce	5-10 mm; worn.
	Margarites pupillus	scarce	3-8 mm; worn, broken.
	Epitonium indianorum	rare	5 mm; somewhat worn.
	Thais emarginata	scarce	5-15 mm; worn and broken.
	Amphissa columbiana	present	5-10 mm; somewhat worn to worn and broken condition; occasional drilled shell.
	Homalopoma luridum	present	3-7 mm; worn; some broken; some encrusted with bryozoans.
	Trophonopsis tenuisculptus	rare	13 mm; worn.
BRACHIOPODA	*Terebratalia transversa*	rare	5-7 mm; worn.

SAMPLE NUMBER: VEC81B-15

SAMPLE COMPOSITION: 10% whole shell
10% broken shell
80% rock/gravel

MISCELLANEOUS: most rocks with barnacles, serpulids and encrusting bryozoans; 2 large (8 & 12 cm) rocks; several shells drilled; erect bryozoans scarce.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Glycymeris subobsoleta*	common	3-28 mm; worn to good condition.
	Astarte alaskensis	rare	2 shells; 12 mm; good condition.
	Miodontiscus prolongata	rare	about 3 mm; worn.
	Chlamys rubida	rare	1 shell; 30 mm; worn and broken shell.
	Humilaria kennerlyi	scarce	several shells about 1 cm; worn, broken and 1 is drilled; 1 large (5.2 cm) shell with encrusting bryozoans, barnacles, and serpulids, also burrowing sponge holes.
	Pododesmus macroschisma	rare	2 shells; to 15 mm; worn and chipped.
GASTROPODA	*Trophon triangulatus*	rare	28 mm; 1 shell; worn; with encrusting bryozoans, barnacles, and serpulids.
	Ceratostoma foliata	rare	36 mm; 1 shell; worn; with encrusting bryozoans, barnacles, and serpulids.
	Notoacmea persona	rare	2 shells; 8 mm; worn.
	Crepipatella lingulata	rare	2 shells; 5 and 10 mm; worn and encrusted with bryozoans outside.
	Homalopoma luridum	rare	1 broken worn shell; 7 mm.
	Amphissa columbiana	scarce	several worn and broken shells to 1 cm.
	Thais emarginata	rare	1 shell; 5 cm; somewhat worn.
	Columbella gausapata	rare	2 shells; 7 mm; somewhat worn.

SAMPLE NUMBER: VEC81B-29

SAMPLE COMPOSITION: 5% whole shell
15% broken shell
80% rock/gravel

MISCELLANEOUS: encrusting bryozoans and barnacle scars and serpulids on some rocks; occasional erect bryozoans; occasional drilled shell; sea urchin spines and piece of test (*Strongylocentrotus purpuratus*); broken barnacle shells common.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
AMPHINEURA	unidentified chiton	rare	a single broken plate; piece 8 mm; worn.
PELECYPODA	*Chlamys rubida*	scarce	3 worn shells; 8-20 mm; 1 shell encrusted with serpulids and bryozoans on inside.
	Diplodonta orbellus	rare	1 shell; 13 mm with encrusting bryozoans, serpulids on inside; worn; chipped with worm or sponge bore hole.
	Cyclocardia crassidens	rare	2 shells; worn; 7 mm.
	Pododesmus macroschisma	scarce	9-25 mm; most broken; encrusted with bryozoans, serpulids and barnacles; worn.
	Glycymeris subobsoleta	common	3-25 mm; good condition to worn condition; often encrusted with bryozoans, barnacles; occasionally drilled.
	Humilaria kennerlyi	scarce	8-22 mm; broken and worn.
	Astarte alaskensis	rare	1 shell; broken piece; 8 mm; worn.
	Miodontiscus prolongata	rare	1 shell; 3 mm; worn.
	Hiatella arctica	rare	2 shells; 5 mm; somewhat worn; drilled.
GASTROPODA	*Thais emarginata*	common	3-15 mm; several drilled; worn and some broken.
	Amphissa columbiana	scarce	5-15 mm; worn and broken; 1 drilled.
	Calyptraea fastigiata	common	3-10 mm; worn; broken.
	Crepipatella lingulata	present	3-10 mm; worn; chipped.
	Notoacmea persona	scarce	5-7 mm; worn; chipped.
	Puncturella multistriata	rare	1 shell; 6 mm; worn.
	Homalopoma luridum	rare	2 shells; to 6 mm; worn; 1 encrusted with bryozoans.
	Margarites pupillus	rare	2 broken shells; to 6 mm; worn.
	Calliostoma annulatum	rare	1 shell; 3 mm; somewhat worn.
	Vermetus compactus	rare	2 broken pieces; to 10 mm; well worn.
	unidentifed gastropod #3	rare	1 shell; 8 mm; worn.
SCAPHOPODA	*Dentalium pretiosum*	rare	1 shell; 22 mm; worn.

SAMPLE NUMBER: VEC81B-30

SAMPLE COMPOSITION: 40% whole shell
60% broken shell

MISCELLANEOUS: broken barnacle shells-abundant; sea urchin test fragments; occasional erect bryozoan; encrusting bryozoans on occasional shell; boring sponge holes in occasional shell; occasional shell drilled; several large shell fragments- unidentifiable (worn and broken).

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
AMPHINEURA	unidentified chiton plate	rare	1 chiton plate fragment; worn, chipped.
PELECYPODA	*Semele rubropicta*	rare	33 mm; worn.
	Humilaria kennerlyi	present	8-33 mm; worn; some encrusted with bryozoans and serpulids, inside and out.
	Pododesmus macroschisma	common	5-45 mm; worn, often encrusted with bryozoans and serpulids; boring sponge holes common.
	Glycymeris subobsoleta	abundant	3-30 mm; somewhat to well worn condition; often encrusted with bryozoans and serpulids; many drilled.
	Diplodonta orbellus	scarce	10-17 mm; worn.
	Chlamys rubida	rare	35 mm; worn; encrusted with bryozoans; boring sponge holes present.
	Tellina salmonea	rare	6 mm; worn.
	Miodontiscus prolongata	scarce	3-6 mm; worn.
	Astarte alaskensis	rare	10 mm; worn.
	Cyclocardia crassidens	scarce	8-18 mm; worn.
	Cyclocardia ventricosa	scarce	3-12 mm; worn.
GASTROPODA	*Amphissa columbiana*	rare	9 mm; worn, chipped.
	Olivella baetica	rare	12-18 mm; somewhat worn and worn condition; 1 drilled.
	Thais emarginata	scarce	3-21 mm; worn and broken.
	Homalopoma luridum	scarce	3-6 mm; worn and chipped.
	Acteocina culcitella	rare	5 mm; worn and drilled.
	Mitrella gausapata	rare	6 mm; worn.
	Vermetus compactus	rare	20 mm; worn.
	Notoacmea persona	rare	6-8 mm; worn.
	Crepipatella lingulata	scarce	6-12 mm; worn.
	Puncturella multistriata	scarce	5-8 mm; worn.
	Calyptraea fastigiata	scarce	5-12 mm; worn.
BRACHIOPODA	*Terebratalia transversa*	rare	6-12 mm; worn.

SAMPLE NUMBER: VEC81B-65

SAMPLE COMPOSITION: 20% whole shell
80% broken shell

MISCELLANEOUS: broken shell primarily barnacles; occasional erect bryozoan

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Astarte alaskensis*	scarce	14 mm; good to worn condition.
	Diplodonta orbellus	rare	17mm; worn.
	Miodontiscus prolongata	scarce	3-6mm; worn.
	Glycymeris subobsoleta	common	3-25 mm; good to worn condition.
	Cyclocardia ventricosa	rare	18 mm; worn.
	Cyclocardia crassidens	rare	5 mm; worn and drilled.
	Pandora bilirata	scarce	8-12 mm; somewhat worn.
	Pandora sp. (too worn for species identification)	rare	1 shell, 21 mm; worn and chipped.
	Tellina salmonea	rare	1 shell, 5 mm; worn.
GASTROPODA	*Polinices caurinus*	rare	1 shell, 25 mm; encrusted with bryozoans.
	Olivella baetica	present	5-15 mm; good to worn condition; several drilled.
	Amphissa columbiana	rare	5 mm; worn.
	Acteocina culcitella	rare	5 mm; somewhat worn.
SCAPHODADA	*Dentalium pretiosum*	present	15-25 mm; worn, many broken pieces.
BRACHIOPODA	*Terebratalia transversa*	rare	1 shell, 5 mm; worn.

SAMPLE NUMBER: VEC81B-84

SAMPLE COMPOSITION: 10% whole shell
20% broken shell
70% rock

MISCELLANEOUS: rocks heavily encrusted with bryozoans, barnacles, some coralline algae and serpulids; broken barnacles abundant; erect bryozoans present; most shells encrusted with bryozoans and serpulids; some also encrusted with barnacles.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
AMPHINEURA	unidentified chiton plates	rare	2 worn, chipped chiton plates; encrusted with bryozoans.
PELECYPODA	*Glycymeris subobsoleta*	present	5-25 mm; worn and encrusted; few drilled.
	Diplodonta orbellus	scarce	14-20 mm; worn and broken and encrusted.
	Pododesmus macroschisma	rare	12 mm; worn and encrusted.
	Miodontiscus prolongata	rare	4 mm; worn.
	Chlamys rubida	scarce	6-12 mm; worn and encrusted.
GASTROPODA	*Crepipatella lingulata*	present	3-12 mm; worn and encrusted.
	Puncturella cucullata	scarce	5-11 mm; worn.
	Margarites pupillus	scarce	5-9 mm; worn and encrusted.
	Homalopoma luridum	scarce	3-7 mm; worn and encrusted.
	Amphissa columbiana	rare	8-11 mm; worn and encrusted.
	Mitella gausapata	scarce	5-8 mm; worn.
	Vermetus compactus	scarce	9-11 mm; worn.
SCAPHOPODA	unidentified scaphopods	scarce	2 fragments of scaphopods; 6 and 8 mm; worn.

SAMPLE NUMBER: VEC81B-107

SAMPLE COMPOSITION: 20% whole shell
30% broken shell
50% rock

MISCELLANEOUS: rocks with encrusting bryozoans, barnacles and barnacle scars; occasional erect bryozoans; broken barnacles; piece (1.5 cm) of crab shell; hermit crab in gastropod shell, see below.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Pododesmus macroschisma*	present	to 27 mm; worn and broken; 1 shell with serpulid.
	Glycymeris subobsoleta	abundant	5-23 mm; few good condition (with meat); remainder somewhat worn and worn condition; occasional shell drilled.
	Humilaria kennerlyi	rare	1 broken piece of shell; worn; 1 cm piece.
	Tellina salmonea	rare	1 broken piece of shell; 8 mm piece; worn.
	Clinocardium ciliatum	rare	3 shells; 6 mm; somewhat worn.
GASTROPODA	*Puncturella multistriata*	rare	1 shell; 12 mm; worn; serpulid inside.
	Crepidula nummaria	rare	1 shell; 6 mm; worn; chipped.
	Calyptraea fastigiata	rare	2 shells; 3 and 6 mm; worn; chipped.
	Crepipatella lingulata	scarce	4 shells; 6-13 mm; worn; chipped; encrusting bryozoans on and in 2 shells.
	Olivella baetica	rare	1 broken piece; 8 mm; worn.
	Thais emarginata	present	3-10 mm; worn to well worn condtion; some chipped.
	Searlesia dira	rare	1 shell; 12 mm; worn and broken.
	Homalopoma luridum	scarce	6 shells; 3-6 mm; worn and broken.
	Margarites pupillus	rare	1 shell; 8 mm; worn and chipped.
	Tegula pulligo	rare	1 shell; 7 mm; worn; shell drilled; contains hermit crab, *Pagurus sp.*

SAMPLE NUMBER: VEC81B-133

SAMPLE COMPOSITION: 20% whole shell
70% broken shell
10% rock

MISCELLANEOUS: most rocks and shells clean; few encrusting bryozoans on worn shells; occasional drilled shell; erect bryozoans; occasional serpulid on rock or shell.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Pododesmus macroschisma*	scarce	1 large shell-45mm; remainder less than 1 cm; well worn.
	Humilaria kennerlyi	present	1 shell about 35 mm with encrusting bryozoans, well worn; remainder 5mm-2 cm; somewhat worn and worn; 1 shell drilled.
	Glycymeris subobsoleta	abundant	5 mm-2.5 cm; good condition-well worn, occasional drilled shell; encrusting bryozoans, barnacles, and serpulids on 1 well worn shell.
	Miodontiscus prolongata	present	3-6 mm; worn.
	Tellina salmonea	present	6-15 mm; worn; 2 drilled.
GASTROPODA	*Homalopoma luridum*	present	2-7 mm; worn and broken, occasionally drilled.
	Thais emarginata	scarce	5-10 mm; worn and broken.
	Diodora aspera	rare	5 mm; 1 shell; worn.
	Calyptraea fastigiata	rare	3 mm-1 cm; 3 shells; worn and chipped.
	Crepipatella lingulata	rare	3 mm; 1 shell; worn and chipped.
BRACHIOPODA	*Terebratalia transversa*	rare	8 mm; 2 worn, broken shells.

SAMPLE NUMBER: VEC81B-132

SAMPLE COMPOSITION: 10% whole shell
70% broken shell
20% rock

MISCELLANEOUS: broken barnacles-very abundant; few erect bryozoans; few sea urchin spines and a fragment of test; rocks encrusted with bryozoans, serpulids, coralline algae and barnacles; many shells encrusted with bryozoans and serpulids inside and out; few shells drilled or with boring sponge holes.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
AMPHINEURA	unidentified chiton plate	rare	1 broken piece of chiton plate
PELECYPODA	*Glycymeris subobsoleta*	abundant	5-25 mm; somewhat to well worn; often encrusted with barnacles, serpulids and bryozoans.
	Pododesmus macroschisma	present	12-42 mm; often worn; often encrusted with bryozoans and serpulids, inside and out.
	Humilaria kennerlyi	present	8-23 mm; worn often encrusted with bryozoans and serpulids, inside and out.
	Miodontiscus prolongata	scarce	3-5 mm; worn.
	Tellina salmonea	rare	to 8 mm; broken pieces only; worn.
GASTROPODA	*Crepipatella lingulata*	present	4-15 mm; worn; some encrusted with bryozoans and serpulids, inside and out.
	Calyptraea fastigiata	scarce	5-10 mm; worn; one encrusted with bryozoans and serpulids, inside and out.
	Calliostoma ligatum	rare	3 mm; worn.
	Tegula pulligo	rare	6 mm; worn.
BRACHIOPODA	*Terebratalia transversa*	rare	5 mm; worn.

SAMPLE NUMBER: VEC01B-140

SAMPLE COMPOSITION: 10% whole shell
60% broken shell
30% rock/gravel

MISCELLANEOUS: rocks encrusted with bryozoans, barnacles and serpulids; elaborate, erect bryozoans present; broken shell component primarily barnacles; crab legs; sea urchin(*Strongylocentrotus purpuratus*) spines.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
AMPHINEURA	unidentified chiton plate	rare	several worn pieces; 5-10 mm.
PELECYPODA	*Humilaria kennerlyi*	present	8-20 mm; worn; often encrusted with bryozoans; (1 well worn, encrusted shell at 70 mm).
	Pododesmus macroschisma	scarce	5-8 mm; worn, chipped.
	Glycymeris subobsoleta	common	3-20 mm; good condition to worn condition; many encrusted with bryozoans, barnacles and serpulids, inside and out.
	Crenella decussata	rare	3 shells to 3 mm; good condition.
	Miodontiscus prolongata	present	3-6 mm; good to worn condition.
	Diplodonta orbellus	rare	1 shell; 5 mm; somewhat worn.
GASTROPODA	*Margarites pupillus*	present	3-6 mm; worn; broken; 1 encrusted with bryozoans.
	Homalopoma luridum	present	3-6 mm; worn; broken; some encrusted with bryozoans.
	Thais emarginata	scarce	5 mm; worn; broken.
	Aceteocina culcitella	scarce	3 mm; worn; broken.
	Notoacmea persona	rare	1 shell; 5 mm; worn.
	Calyptraea fastigiata	scarce	3-8 mm; worn.
	Crepipatella lingulata	present	3-10 mm; worn; some encrusted with bryozoans.
	Acmaea mitra	rare	7 mm; worn; encrusted with bryozoans.
	Amphissa columbiana	rare	6 mm; worn.
	Mitrella gausapata	rare	7 mm; worn.
	Natica clausa	rare	6 mm; good condition.
	unidentified gastropod #3	rare	6 mm; worn.
BRACHIOPODA	*Terebratalia transversa*	rare	5 mm; worn.
DECAPODA	unidentified crab legs	scarce	broken pieces of crab legs.

SAMPLE NUMBER: VEC81B-153

SAMPLE COMPOSITION: 30% whole shell
50% broken shell
20% rock/gravel

MISCELLANEOUS: shells and rocks often encrusted with bryozoans, serpulids and barnacles; sea urchin spines and test-scarce (*Strongylocentrotus purpuratus*); erect bryozoans-rare; broken barnacles-abundant.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
AMPHINEURA	unidentified chiton plate	rare	broken and worn.
PELECYPODA	*Pododesmus macroschisma*	rare	10-40 mm; worn and chipped; encrusted with bryozoans and serpulids.
	Humilaria kennerlyi	scarce	8-25 mm; worn and broken; 1 drilled, encrusted with bryozoans and serpulids, inside and out.
	Glycymeris subobsoleta	abundant	3-25 mm; somewhat to well worn; many encrusted with bryozoans and serpulids; often drilled.
	Miodontiscus prolongata	scarce	3-6 mm; worn.
	Astarte alaskensis	rare	11 mm; well worn.
	Chlamys rubida	rare	12 mm; worn; encrusted with bryozoans and serpulids, inside and out.
GASTROPODA	*Thais lamellosa*	rare	5 cm; worn, encrusted with bryozoans and barnacles.
	Margarites pupillus	present	3-10 mm; worn, most encrusted with bryozoans.
	Homalopoma luridum	common	3-9 mm; worn and chipped.
	Tegula pulligo	present	3-13 mm; worn, often encrusted with bryozoans.
	Calliostoma ligatum	scarce	3-8 mm; worn.
	Thais emarginata	present	3-12 mm; worn.
	Amphissa columbiana	rare	8 mm; worn.
	Trophon beringi	rare	6 mm; worn, broken.
	Searlesia dira	rare	5-8 mm; worn.
	Crepipatella lingulata	present	5-17 mm; worn; most encrusted with bryozoans and serpulids, inside and out.
	Calyptraea fastigiata	scarce	8-13 mm; worn; encrusted with bryozoans and serpulids, inside and out.
	Puncturella multistriata	rare	5 mm; worn.
BRACHIOPODA	*Terebratalia transversa*	scarce	6-8 mm; worn.

SAMPLE NUMBER: VEC81B-156

SAMPLE COMPOSITION: 20% whole shell
75% broken shell
5% rock/gravel

MISCELLANEOUS: rock encrusted with bryozoans, barnacles, serpulids, and coralline algae (also on many shells); serpulids-scarce; erect bryozoans-present; broken barnacles-very abundant; boring sponge holes on many shells; 1 crab leg.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Glycymeris subobsoleta*	abundant	3-25 mm; worn to well worn; often encrusted with bryozoans, serpulids, barnacles; occasionally drilled.
	Miodontiscus prolongata	present	3-6 mm; worn.
	Humilaria kennerlyi	rare	5-10 mm; worn.
	Astarte alaskensis	rare	3-5 mm; somewhat worn.
	Diplodonta orbellus	rare	11-15 mm; worn; serpulids, bryozoans on inside
	Chlamys hericia	scarce	5-10 mm; worn.
	Chlamys rubida	scarce	10-15 mm; worn.
	Cyclocardia crassidens	scarce	5-16 mm; worn and encrusted with bryozoans and serpulids, inside and out.
GASTROPODA	*Margarites pupillus*	rare	4 mm; worn.
	Diodora aspera	rare	7 mm; worn.
	Puncturella cucullata	rare	5 and 14 mm; worn.
	Puncturella multistriata	rare	9 mm; worn.
	Crepidula nummaria	rare	10 mm; worn.
	Crepipatella lingulata	present	5-12 mm; worn; occasionally encrusted with bryozoans; 1 shell drilled.
	Calyptraea fastigiata	scarce	5-10 mm; worn.
	Homalopoma luridum	present	3-8 mm; worn; chipped; often encrusted with bryozoans.
	Thais emarginata	scarce	5-11 mm; worn; drilled.
	Amphissa columbiana	scarce	6-9 mm; worn; chipped.
	Nassarius mendicus	scarce	7 mm; worn.
BRACHIOPODA	*Terebratalia transversa*	present	7-22 mm; worn.
	Terebratulina crossei	rare	9 mm; worn; chipped with encrusting bryozoans inside and out.
DECAPODA	unidentified crab leg	rare	1 broken crab leg.

SAMPLE NUMBER: VEC81B-171

SAMPLE COMPOSITION: 15% whole shell
80% broken shell
5% rock/gravel

MISCELLANEOUS: broken shell component primarily barnacles; rocks and some shells with encrusting bryozoans and serpulids; some shells drilled; sea urchin test fragment present; chiton plate fragment present.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
CORALS	*Balanophyllia elegans*	scarce	3-10 mm; well worn.
AMPHINEURA	unidentified chiton plate	rare	1 chiton plate fragment; worn.
PELECYPODA	*Glycymeris subobsoleta*	abundant	3-25 mm; somewhat worn to well worn condition; some encrusted with bryozoans and serpulids; some with boring sponge holes.
	Miodontiscus prolongata	present	3-6 mm; somewhat worn.
	Humilaria kennerlyi	scarce	4-12 mm; worn; one shell drilled.
	Diplodonta orbellus	scarce	12-18 mm; worn; some encrusted with serpulids; some with boring sponge holes.
	Chlamys rubida	rare	22 mm; worn.
	Cyclocardia crassidens	rare	6-15 mm; worn.
	Cyclocardia ventricosa	scarce	3-12 mm; worn.
GASTROPODA	*Notoacmea persona*	rare	5-8 mm; worn.
	Puncturella multistriata	rare	3-5 mm; worn.
	Acteocina culcitella	rare	5 mm; worn.
	Mitromorpha gracilior	rare	6 mm; worn and drilled.
	Halistylus pupoides	rare	4 mm; worn.
	Epitonium indianorium	rare	5 mm; somewhat worn.
	Homalopoma luridum	present	3-8 mm; worn and chipped; many encrusted with bryozoans.
	Margarites pupillus	rare	4 mm; worn.
	Thais emarginata	rare	4 mm; worn.
BRACHIOPODA	*Terebratalia transversa*	rare	4-8 mm; worn.

SAMPLE NUMBER: VEC81B-173

SAMPLE COMPOSITION: 5% whole shell
45% broken shell
50% rock/gravel

MISCELLANEOUS: erect bryozoans present; broken barnacles very abundant; sea urchin spines scarce; rocks with encrusting and erect bryozoans, barnacles and serpulids; drilled shells very rare.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
CORALS	*Balanophyllia elegans*	rare	5 mm; worn.
AMPHINEURA	unidentified chiton plate	rare	1 broken and worn chiton plate.
PELECYPODA	*Glycymeris subobsoleta*	abundant	5-25 mm; good condition to well worn; many encrusted with bryozoans and serpulids often with boring sponge holes.
	Miodontiscus prolongata	present	3-5 mm; worn.
	Cyclocardia ventricosa	rare	3-7 mm; worn.
	Hiatella arctica	rare	5 mm; worn.
GASTROPODA	*Calyptraea fastigiata*	rare	8 mm; worn; chipped.
	Crepipatella lingulata	scarce	3-16 mm; worn and broken; several encrusted with bryozoans. and serpulids, inside and out.
	Margarites pupillus	scarce	3-8 mm; worn; encrusted with bryozoans.
	Homalopoma luridum	present	3-6 mm; worn and broken;several encrusted with bryozoans.
	Amphissa columbiana	rare	4-8 mm; worn and broken.
	Vermetus compactus	rare	8 mm; worn.
BRACHIOPODA	*Terebratalia transversa*	scarce	5-13 mm; worn.

SAMPLE NUMBER: VEC81B-184

SAMPLE COMPOSITION: 40% whole shell
35% broken shell
25% rock/gravel

MISCELLANEOUS: broken shell component about 50% barnacle fragments; encrusting bryozoans and coralline algae on rock and shell; barnacles, serpulids and corals on rock and shell; occasional erect bryozoan; boring sponge holes in many shells; drilled shells common.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
CORALS	*Balanophyllia elegans*	scarce	4 specimens to 15 mm in height and 10 mm in diameter; well worn, encrusted with bryozoans and serpulids.
PELECYPODA	*Glycymeris subobsoleta*	abundant	3 mm-3.5 cm; good to well worn conditions; some encrusted with bryozoans, serpulids and barnacles
	Diplodonta orbellus	scarce	10-18 mm;worn with barnacle scars.
	Humilaria kennerlyi	present	5-70 mm; worn to well worn condition; encrusted with bryozoans and barnacles.
	Pododesmus macroschisma	rare	18-22 mm; well worn; encrusted with bryozoans and serpulids.
	Miodontiscus prolongata	present	4-6 mm; worn.
	Astarte alaskensis	scarce	12-15 mm; worn; encrusted with bryozoans and serpulids.
	Hiatella arctica	rare	1 shell; 5 mm; worn and chipped.
	Cyclocardia crassidens	present	3-18 mm; worn to well worn condition; encrusted with bryozoans and serpulids inside and out; boring sponge holes in most.
GASTROPODA	*Homalopoma luridum*	scarce	3-6 mm; worn and chipped.
	Polinices caurinus	rare	15 mm; somewhat worn.
	Epitonium indianorum	rare	1 shell; 8 mm; somewhat worn.
	Tritonalia interfossa	rare	1 shell; 7 mm; worn.
	Searlesia dira	rare	1 shell; 8 mm; worn.
	Diadora aspera	rare	1 shell; 17 mm; worn; encrusted with serpulids and bryozoans inside and out.
	Calyptraea fastigiata	scarce	3-14 mm; worn; encrusted with bryozoans and serpulids inside and out
	Crepipatella lingulata	scarce	3-10 mm; worn; 1 specimen heavily encrusted with bryozoans on outside.
	Puncturella cucullata	rare	1 shell; 3 mm; worn.
SCAPHOPODA	unidentified scaphopod shell	rare	1 shell; broken; 14 mm piece.

SAMPLE NUMBER: VEC81B-184 cont'd.

SPECIES LIST, CONT'D.

GROUP	SPECIES	ABUNDANCE	COMMENTS
BRACHIOPODA	*Terebratalia transversa*	scarce	3-6 mm; worn.

SAMPLE NUMBER: VEC81B-134

SAMPLE COMPOSITION: 10% whole shell
60% broken shell
30% rock/gravel

MISCELLANEOUS: Chiton plate fragments-rare, worn; sea urchin spine fragments-rare, worn; barnacle fragments predominate broken shell component; encrusting bryozoans, serpulids on rock and shell; occasional drilled shell; occasional shell with boring sponge holes.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
AMPHINEURA	unidentified chiton plate	rare	broken chiton plate; worn.
PELECYPODA	*Humilaria kennerlyi*	present	6-45 mm; worn and broken, with sponge holes; encrusting bryozoans and serpulids, inside and out.
	Chlamys hericia	rare	5 mm; somewhat worn.
	Pododesmus macroschisma	scarce	35-45 mm; broken; well worn; encrusting sponges and serpulids, inside and out.
	Glycymeris subobsoleta	common	5-23 mm; encrusted with bryozoans and serpulids, inside and out.
	Miodontiscus prolongata	scarce	3-6 mm; worn.
	Tellina salmonea	rare	8 mm; 2 broken, worn shells.
	Spisula falcata	rare	55 mm; chipped, cracked and worn.
GASTROPODA	*Thais emarginata*	scarce	5-8 mm; worn and broken.
	Notoacmea persona	rare	5 mm; worn and chipped.
	Crepipatella lingulata	scarce	5-8 mm; worn and chipped.
	Amphissa columbiana	rare	8-10 mm; worn and broken.
	Acteocina culcitella	rare	5 mm; worn and broken.
	Olivella baetica	rare	17 mm; worn and broken.
	Homalopoma luridum	common	3-6 mm; worn and broken.
	Acmaea mitra	rare	10 mm; worn.
	Halistylus pupoides	rare	3 mm; somewhat worn.
	Tegula pulligo	scarce	5-8 mm; worn, drilled and broken.
	Puncturella multistriata	rare	3 mm; worn.
	unidentified gastropod #3	rare	7 mm; worn.

SAMPLE NUMBER: VEC81B-139

SAMPLE COMPOSITION: 70% whole shell
20% broken shell
10% rock

MISCELLANEOUS: broken barnacles present; shells and rocks encrusted with barnacles and bryozoans ; occasional serpulid; erect bryozoans present; sea urchin spine (*Strongylocentrotus purpuratus*); old worn shells with boring sponge holes.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
CORALS	*Balanophyllia elegans*	scarce	about 16 x 22 mm; fragments or whole on shell.
AMPHINEURA	unidentified chiton plate	rare	1 broken; well worn plate; 10 mm.
PELECYPODA	*Humilaria kennerlyi*	common	8-36 mm; plus fragments of larger shells; old, well worn, encrusted with bryozoans and barnacles; occasionally drilled.
	Chlamys sp.	rare	45 mm; well worn; encrusted with barnacles and bryozoans, inside and out.
	Chlamys rubida	present	10-22 mm; worn, chipped and broken, encrusting bryozoans and serpulids inside and out.
	Astarte alaskensis	scarce	9-15 mm; worn; encrusted with bryozoans inside and out.
	Cyclocardia ventricosa	rare	8 mm; worn.
	Glycymeris subobsoleta	very abundant	5-27 mm; few in good condition, most in well worn condition; encrusted with bryozoans, barnacles, and serpulids; boring sponge holes in many.
	Diplodonta orbellus	scarce	9-24 mm; worn, broken; encrusted with bryozoans and serpulids, inside and out; boring sponge holes in 1 shell.
	Pododesmus macroschisma	scarce	to 23 mm; encrusted with bryozoans and serpulids; boring sponge holes in most.
	Tellina salmonea	rare	1 shell; 10 mm; worn.
	Cyclocardia crassidens	rare	15-18 mm; worn, encrusted with bryozoans and serpulids, inside and out.
	Miodontiscus prolongata	scarce	3-4 mm; worn.
	Hiatella arctica	rare	4 mm; worn.
GASTROPODA	*Thais emarginata*	rare	5 mm; worn.
	Homalopoma luridum	rare	6 mm; worn; broken; encrusted with bryozoans.
	Amphissa columbiana	scarce	9-13 mm; worn.
	Searlesia dira	rare	6-10 mm; worn.

SAMPLE NUMBER: VEC81B-139 cont'd

SPECIES LIST, CONT'D.

GROUP	SPECIES	ABUNDANCE	COMMENTS
GASTROPODA cont'd	*Calyptraea fastigiata*	scarce	5-12 mm; worn, encrusted with bryozoans and serpulids.
	Crepipatella lingulata	scarce	6-9 mm; worn.
	Puncturella multistriata	rare	6 mm; worn.
	Puncturella cucullata	rare	6 mm; worn.
	unidentifed gastropod #3	rare	10-12 mm; worn.
BRACHIOPODA	*Terebratalia transversa*	scarce	10-20 mm; worn; encrusted with bryozoans.
	Laqueus californianus	rare	3 mm; worn.

SAMPLE NUMBER: VEC81B-175

SAMPLE COMPOSITION: 20% whole shell
80% broken shell
rock- negligible

MISCELLANEOUS: broken barnacles, common; erect bryozoans, present; sea urchin test fragments, rare; chiton plate fragments, rare; serpulid tubes, rare; corals, scarce; large shells/fragments with boring sponge holes; encrusting bryozoans, serpulids and barnacles very abundant on shells.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
CORALS	*Balanophyllia elegans*	rare	5-12 mm; worn.
AMPHINEURA	unidentified chiton plates	rare	fragments of chiton plates; well worn.
PELECYPODA	*Pododesmus macroschisma*	present	5-35 mm; worn; encrusted with bryozoans, barnacles and serpulids, inside and out.
	Diplodonta orbellus	present	7-22 mm; worn; encrusted with bryozoans and serpulids, inside and out.
	Humilaria kennerlyi	common	5-70 mm; worn and well worn with encrusting bryozoans and serpulids; large fragment (7 cm) full of sponge holes.
	Glycymeris subobsoleta	abundant	5-28 mm; good to well worn condition; often encrusted with bryozoans, serpulids and barnacles, inside and out.
	Miodontiscus prolongata	scarce	5-7 mm worn.
	Cyclocardia crassidens	scarce	15 mm; well worn; full of sponge holes.
	Chlamys hericia	rare	6 mm; somewhat worn.
	Chlamys rubida	rare	9 mm; somewhat worn.
	Hiatella arctica	rare	5 mm; worn and drilled.
GASTROPODA	*Margarites pupillus*	present	3-9 mm; worn; encrusted with bryozoans.
	Homalopoma luridum	present	3-9 mm; worn, chipped; often encrusted with bryozoans.
	Tegula pulligo	rare	1 cm; worn.
	Calliostoma ligatum	rare	6-8 mm; fragments to 15 mm; worn and broken.
	Amphissa columbiana	rare	11 mm; well worn and broken.
	Thais emarginata	scarce	5-10 mm; worn and broken.
	Trophon beringi	scarce	8-15 mm worn and broken.
	Calliostoma annulatum	rare	fragment; 10 mm; worn and broken.
	Puncturella cucullata	scarce	5-10 mm; worn.
	Puncturella multistriata	rare	7 mm; worn.
	Acmaea mitra	present	5-15 mm; worn with encrusting bryozoans and serpulids and boring sponge holes.

SAMPLE NUMBER: VEC81B-175 cont'd

SPECIES LIST, CONT'D.

GROUP	SPECIES	ABUNDANCE	COMMENTS
GASTROPODA cont'd	*Notoacmea persona*	rare	4 mm; worn.
	Crepipatella lingulata	present	5-12 mm; worn; encrusted with bryozoans and serpulids, inside and out.
	Calyptraea fastigiata	present	5-12 mm; worn; encrusted with bryozoans and serpulids, inside and out.
	Diodora aspera	scarce	8-15 mm; well worn; encrusting bryozoans and serpulids, inside and out.
	unidentified gastropod #2	scarce	6-15 mm; worn.
BRACHIOPODA	*Terebratalia transversa*	present	4-25 mm; worn; with encrusting bryozoans, and serpulids, inside and out.

SAMPLE NUMBER: VEC81B-176

SAMPLE COMPOSITION: 10% whole shell
85% broken shell
5% rock/gravel

MISCELLANEOUS: broken barnacles-abundant; sea urchin test fragments-scarce; few drilled shells; boring sponge holes on some shells.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
CORALS	*Ballanophyllia elegans*	present	3-9 mm; worn.
AMPHINEURA	unidentified chiton plate	rare	1 broken chiton plate; worn.
PELECYPODA	*Glycymeris subobsoleta*	abundant	5-25 mm; somewhat to well worn; often encrusted with bryozoans, serpulids, inside and out.
	Miodontiscus prolongata	present	3-5 mm; worn.
	Humilaria kennerlyi	present	4-30 mm; worn; encrusted with bryozoans inside and out; 1 shell drilled.
	Pododesmus macroschisma	rare	35 mm; worn and broken.
	Astarte alaskensis	rare	8 mm; worn and broken.
	Cyclocardia ventricosa	present	3-11 mm; worn; occasionally drilled.
GASTROPODA	*Homalopoma luridum*	common	3-6 mm; worn and broken.
	Trophon beringi	rare	8 mm; worn and broken.
	Acteocina culcitella	rare	5 mm; worn.
	Tegula pulligo	rare	3 mm; worn.
	Calyptraea fastigiata	scarce	5-15 mm; worn.
	Puncturella multistriata	rare	5 mm; worn.
	Margarites pupillus	rare	5-8 mm; worn.
BRACHIOPODA	*Terebratalia transversa*	rare	5 mm; worn.

SAMPLE NUMBER: VEC81B-177

SAMPLE COMPOSITION: 10% whole shell
60% broken shell
30% rock

MISCELLANEOUS: most shells and rocks encrusted with barnacles, bryozoans and serpulids, occasionally coralline algae also; shells often with boring sponge holes; broken barnacles abundant.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Cyclocardia crassidens*	rare	5 mm; worn.
	Humilaria kennerlyi	present	8-75 mm; worn and encrusted with bryozoans, inside and out.
	Pododesmus macroschisma	rare	25 mm; worn and broken; encrusted with barnacles and bryozoans, inside and out.
	Glycymeris subobsoleta	abundant	5-25 mm; somewhat to well worn condition; most heavily encrusted.
	Miodontiscus prolongata	scarce	3-5 mm; worn.
	Diplodonta orbellus	rare	16 mm; worn and broken.
GASTROPODA	*Crepipatella lingulata*	rare	5 mm; worn.
	Calyptraea fastigiata	rare	5-10 mm; worn.
	Puncturella cucullata	rare	7 mm; worn.
	Homalopoma luridum	common	3-7 mm; worn.
	Tegula pulligo	rare	3 mm; worn.
	Thais emarginata	scarce	5-8 mm; worn.
BRACHIOPODA	*Terebratalia transversa*	rare	7 mm; worn.

SAMPLE NUMBER: VEC81B-178

SAMPLE COMPOSITION: 20% whole shell
50% broken shell
30% rock

MISCELLANEOUS: 1 sea urchin test fragment; broken barnacles-very abundant; rocks encrusted with bryozoans, serpulids, barnacles and occasionally coralline algae; most shells encrusted with bryozoans and serpulids-many with boring sponge holes; several large pieces of shell-too worn and encrusted to identify; erect bryozoans-scarce.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
AMPHINEURA	unidentified chiton plate	rare	1 worn encrusted chiton plate.
PELECYPODA	*Humilaria kennerlyi*	scarce	8-15 mm; broken.
	Miodontiscus prolongata	rare	4-5 mm; worn.
	Glycymeris subobsoleta	abundant	5-26 mm; somewhat to well worn condition;many heavily encrusted.
	Cyclocardia crassidens	rare	5 mm; worn.
GASTROPODA	*Crepipatella lingulata*	scarce	6-18 mm; worn and heavily encrusted.
	Calyptraea fastigiata	scarce	5-15 mm; worn and heavily encrusted.
	Notoacmea persona	rare	5 mm; worn.
	Diodora aspera	rare	6 mm; worn.
	Searlesia dira	rare	12 mm; worn.
	Homalopoma luridum	common	3-6 mm; worn, chipped and encrusted.
	Margarites pupillus	rare	3-6 mm; worn.
	Amphissa columbiana	rare	8 mm; worn and broken.
	Thais emarginata	rare	5-6 mm; worn.
	Tegula pulligo	rare	3-8 mm; worn.
BRACJOP‡PDA	*Terebratalia transversa*	scarce	6-29 mm; worn; encrusted with bryozoans and serpulids.

SAMPLE NUMBER: VEC81B-179

SAMPLE COMPOSITION: 20% whole shell
30% broken shell
50% rock

MISCELLANEOUS: rocks and shells encrusted with bryozoans (erect and encrusting), barnacles, serpulids, coralline algae; boring sponge holes in many shells; erect bryozoans present; broken barnacles abundant; occasional shell drilled; several sea urchin spines and test fragments; crab parts.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Humilaria kennerlyi*	rare	5-28 mm; worn; encrusted with bryozoans and serpulids, inside and out.
	Miodontiscus prolongata	present	3-6 mm; worn.
	Diplodonta orbellus	present	12-20 mm; worn; encrusted with bryozoans and serpulids, inside and out.
	Glycymeris subobsoleta	abundant	5-25 mm; worn; some drilled; encrusted with bryozoans, serpulids; boring sponge holes present.
	Pododesmus macroschisma	scarce	15-17 mm; well worn; encrusted with bryozoans and serpulids, inside and out.
GASTROPODA	*Amphissa columbiana*	rare	8 mm; worn.
	Tegula pulligo	scarce	6-10 mm; worn and broken.
	Crepipatella lingulata	present	8-12 mm; worn and encrusted with bryozoans, serpulids, inside and out.
	Acmaea mitra	present	7-15 mm; encrusted with serpulids and bryozoans; some with boring sponge holes.
	Homalopoma luridum	common	3-9 mm; worn and chipped; often encrusted with bryozoans and serpulids.
	Margarites pupillus	present	3-9 mm; worn.
	Puncturella cucullata	rare	6 mm; worn.
	Trophon beringi	rare	8 mm; worn.
	Thais lamellosa	scarce	35 mm; well worn; encrusted with bryozoans, serpulids and with boring sponge holes.
	Mitrella gausipata	rare	7 mm; worn.
	Calyptraea fastigiata	rare	6-12 mm; worn and encrusted with bryozoans, inside and out.
BRACHIOPODA	*Terebratalia transversa*	scarce	10-28 mm; worn; encrusted with bryozoans, barnacles and serpulids on outside only.
DECAPODA	unidentifed crab exoskeleton	rare	20 mm long.

SAMPLE NUMBER: VEC81B-193

SAMPLE COMPOSITION: 20% whole shell
20% broken shell
60% gravel

MISCELLANEOUS: Rocks and shell-clean, no encrusted bryozoans etc.; broken barnacles, rare.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Glycymeris subobsoleta*	common	7-28 mm; worn; occasionally drilled.
	Tellina salmonea	abundant	5-13 mm; worn; occasionally drilled.
	Chlamys rubida	present	pieces to 54 mm; worn and broken.
	Pododesmus macroschisma	present	9-35 mm; worn.
SCAPHOPODA	*Dentalium pretiosum*	present	pieces to 38 mm; worn.

SAMPLE NUMBER: VEC81B-202

SAMPLE COMPOSITION: 10% whole shell
10% broken shell
80% rock/gravel

MISCELLANEOUS: rocks encrusted with barnacles and occasional serpulid or bryozoan; erect bryozoans rare; broken barnacles abundant; drilled shells present.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Glycymeris subobsoleta*	abundant	5-28 mm; somewhat worn to worn condition.
	Astarte alaskensis	rare	13 mm; worn.
	Miodontiscus prolongata	rare	4 mm; worn.
	Cyclocardia crassidens	rare	6-8 mm; worn.
GASTROPODA	*Olivella baetica*	rare	20 mm; encrusted with bryozoans; worn
	Thais emarginata	scarce	6-15 mm; worn; one encrusted with bryozoans.
BRACHIOPODA	*Terebratalia transversa*	rare	12 mm; worn and broken.

SAMPLE NUMBER: VEC81B-217

SAMPLE COMPOSITION: 10% whole shell
30% broken shell
60% rock/gravel

MISCELLANEOUS: barnacle fragments; a few drill holes in bivalve shells;encrusting bryozoans scarce, on some rocks and a few worn shells; calcareous worm tube, rare, 1 broken specimen; 1 worn erect bryozoan; barnacles in good condition on rocks.

SPECIES LIST

GROUP	SPECIES	ABUNDANCE	COMMENTS
PELECYPODA	*Pododesmus macroschisma*	present	mostly adult shells, about 4 cm, broken, worn or encrusted with bryozoans and/or barnacles; 1 juvenile, 1.5 cm, in good condition. (white variety)
	Glycymeris subobsoleta	abundant	majority (90%) juveniles less than 1 cm, in good condition; a few adults, condition varying from somewhat worn to worn (encrusted with bryozoans)
	Tellina salmonea	rare	shells in good condition; periostracum somewhat worn.
	Humilaria kennerlyi	rare	shells in good condition; 1 drilled.
	Saxidomus giganteus	rare	1 specimen; few encrusting bryozoans.
GASTROPODA	*Polinices sp.*	rare	1 specimen; drilled, slightly worn.
	Olivella baetica	scarce	shells somewhat worn and chipped or broken.
	Amphissa columbiana	rare	1 juvenile, whole; 1 adult broken.
	Thais emarginata	rare	2 adult specimens (1.5 - 2.5 cm) 1 broken, 1 drilled; juveniles intact except for drill hole on one.
	Searlesia dira	rare	1 specimen; drilled, slightly worn.
	Thais canaliculata	rare	juvenile specimens; 1 with encrusting bryozoans.