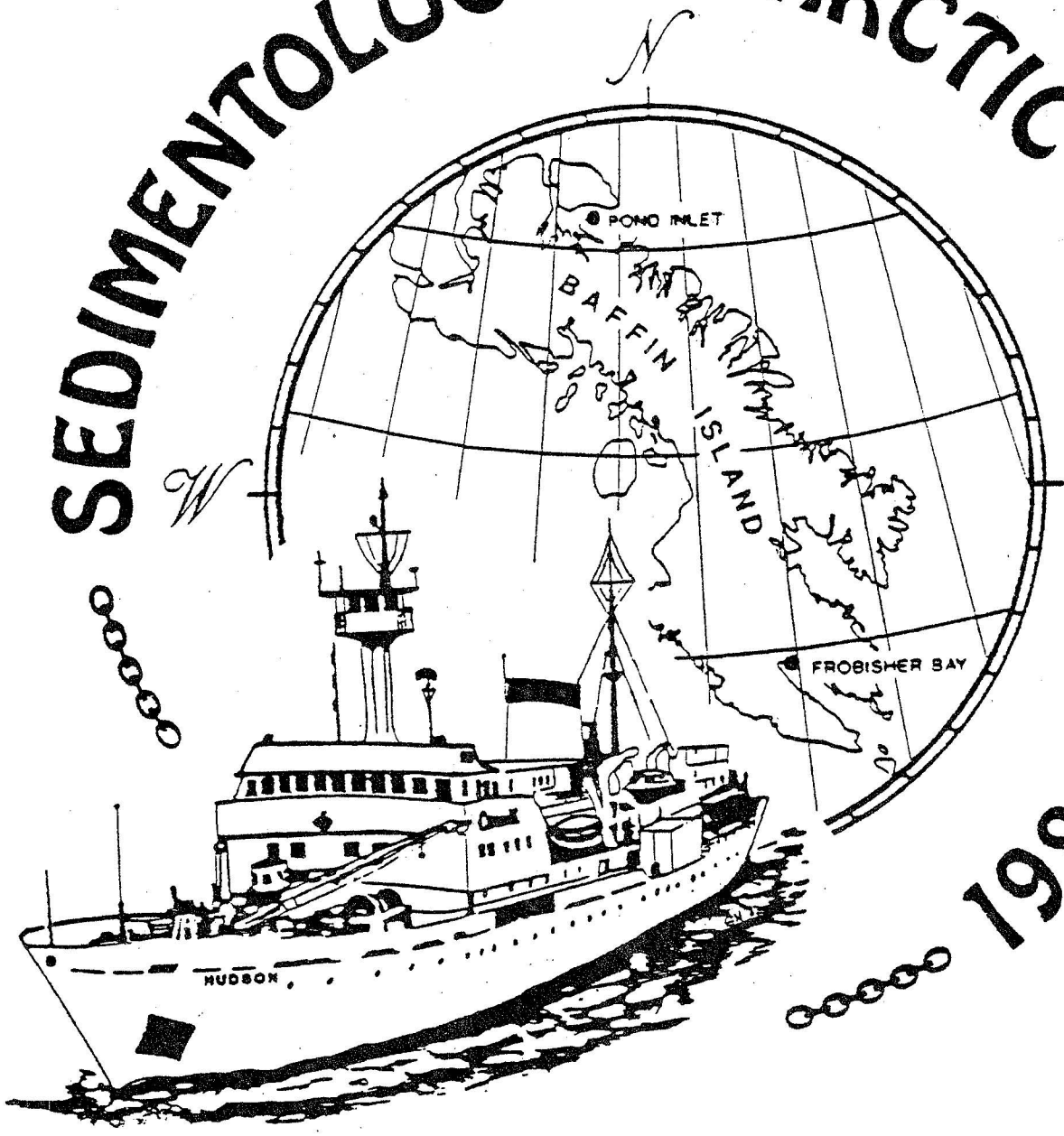
SEDIMENTOLOGY OF ARCTIC FJORDS



1982

OPEN FILE 897

CRUISE REPORT

HUDSON 82-031

HUDSON cruise 82-031 is the first of three sister cruises to Baffin Island under the Sedimentology of Arctic Fjords Experiment (SAFE). The project was initiated by the Geological Survey of Canada at the Atlantic Geoscience Centre (BIO, Dartmouth) under project SYVITSKI 810042. The program to date includes participation by three federal government departments and seven universities (see below). SAFE is a comprehensive study on the climatology, hydrography, physical oceanography, sediment dynamics, sedimentological history, and animal-sediment relationships of Arctic Fjords. The major questions to be answered are:

1. What is the hydrographic character of the glacier-fed rivers draining into the fjords in terms of discharge and sediment load?
2. What are the time-dependent influences of rivers, tides, wave activity, wind, and deep-water renewal, on the current regime of these Arctic fjords?
3. How do the above energy inputs affect the sedimentation in these Arctic fjords? I.e., what are the dynamics of pelagic sedimentation, resuspension events, turbidity, current episodes, ice-rafting, eolian transport, and other events?
4. What is the Quaternary sedimentological history of these northern inlets? How do these Arctic fjords differ from east-coast and west-coast inlets found in lower latitudes?
5. What climatological record can be resolved from foram investigations? How do these records relate to other lower latitude environments?

6. What are the limiting factors for faunal diversity and numbers?
7. What is the relationship between bayhead deltaic environments to their respective prodelta environments?
8. What are the geotechnical and geochemical properties of high latitude fjord sediments?
9. What are the casual relationships between planktonic production and nutrients, bacterial level and SPM?
10. Does groundwater flow into these permanent permafrost Arctic fjordic systems? If so, how?

The final product of this survey will be a workable model that can be used to predict the fate of natural sediment with inference to waste disposal - a problem of increasing significance with northern development. The cross-discipline coordination and site study by all scientists at the same time is the aim and advantage of SAFE.

HUDSON 82-031 was set out as the pilot and survey cruise with detailed sampling and experimentation to follow. The cruise was set up to survey the breadth of fjord environments as could be ascertained from LANDSAT images, areal photography, topographic and bathymetric maps and charts, and previous scattered information.

On September 9, 1982, 1600 hrs, the HUDSON departed Frobisher Bay with a scientific staff of 26. These included:

1. Dr. C.T. Schafer, EMG/AGC/GSC/DEMR - Chief Scientist
2. Dr. J.P.M. Syvitski, EMG/AGC/GSC/DEMR - Senior Scientist (Project Coordinator)
3. Dr. A. Hay, DP/MU - Physical Oceanography, Launch Scientist
4. Dr. R. Trites, MEL/DFO - Physical Oceanography

5. Mr. L. Petrie, MEL/DFO - Physical Oceanography
6. Mr. B. DeYong, DP/MU - Physical Oceanography
7. Dr. R. Gilbert, DG/QU - Geophysics
8. Mr. B. Maclean, RR/AGC/GSC/DEMR - Geophysics
9. Mr. J. Nielsen, PS/AGC/GSC/DEMR - Geophysics
10. Mr. A. Boyce, PS/AGC/GSC/DEMR - Technical Equipment
11. Mr. G. Bika, Huntec - Huntec Operations
12. Dr. F. Hein, DG/UA - Geotechnical Work
13. Mr. R. Fitzgerald, EMR/AGC/GSC/DEMR - Electrochemistry (cores)
14. Ms. K. Ellis, AOL/DFO - Isotopic Chemistry
15. Mr. G. Winters, EMG/AGC/GSC/DEMR - Attenuance/SPM
16. Dr. U. Weyer, NHRI/WSC/DEC - Hydrogeology
17. Mr. J. Banner, NHRI/WSC/DEC - Hydrogeology
18. Mr. D. Stroh, DB/SFU - Bacteriology
19. Mr. J. Stravers, INSTAAR/UBC - Quaternary Geology
20. Mr. G. Hodge, DGS/UBC - Photography, Delta Work
21. Mr. G. Rodgers, HSC/DFO - Hydrography
22. Mr. K. Robertson, EMG/AGC/GSC/DEMR - Watch Leader
23. Mr. K. Asprey, EMG/AGC/GSC/DEMR - Watch Leader
24. Mr. B. Murphy, PS/AGC/GSC/DEMR - Water Leader, Senior Technician
25. Mr. L. Johnson, PS/AGC/GSC/DEMR - Data Manager
26. Ms. C. Powell-Blakeney, EMG/AGC/GSC/DEMR - Data Manager

HUDSON 82-031 was to initially sample 10 inlets: Pangnirtung, Cornation, Maktak, Nedlukseak, Tingin, Iterbilung, McBeth, Inugsuin, Clark and Cambridge Inlets. Pangnirtung, a macrotidal inlet, was not surveyed due

to heavy ice conditions in Cumberland Sound. Sunneshine Fjord was substituted since it also had a reasonable tidal range (4 m). Launch and land parties were not deployed there due to heavy ice near the delta head. Liam Petric seriously injured his leg and had to be put ashore at Broughton; also at this time missing scientific supplies were recovered. Time rescheduling forced us to sample a nearby fjord, North Pangnirtung, and this was compensated by dropping Nedlukseak. All other fjords were sampled and the total number of inlets studied remained at ten.

The HUDSON did geophysical profiling up inlet (BIO sidescan, Huntec (R), 40 inch air gun, echo sounder, acoustic profiler) which helped position our sampling. The HUDSON's station work consisted of (part or all of): vertical haul (200 m) plankton tow (200 μm); UMEL(R) camera drifting; Leheigh coring (3 m); piston coring (≈12 m); grab sampling; SCTD profiling; water sampling (10 per cast); and Larsen attenuance profiling. Details of shipboard analysis are given below. The scientific launch (GREBE) was used to study the prodelta environment via sidescan, RTT 1000, Ross acoustic profiler and SCTD profiling. Water samples were occasionally collected. The launch GULL was used principally as a hydrography vessel doing cross-inlet profiles. The Boston-Whaler was used to collect marine and river water samples as well as survey bayhead deltas via sediment sampling, trenching and photography. A jet ranger helicopter was used in Cambridge Fjord to position mountain-side cameras, aid in the delta survey as well as collecting water from nearby lakes (isotope chemistry/SPM work).

The scientific crew of HUDSON 82-031 were off loaded at 1600 hours, September 24, 1982, at Pond Inlet, N.W.T. Sea/wind/ice conditions were mostly favorable throughout the cruise. Ice conditions were encountered in

attempt to navigate Cumberland Sound, head of Sunneshine Fjord, entrance to Cambridge Fjord and route to Pond Inlet. Strong winds were encountered in most fjords blowing seaward (westerlies) and once in excess of 70 kts caused 1.5 hour delay and stoppage of sampling (McBeth). Winds were weak on the Baffin Shelf except crossing inlets. Swells were mostly less than 3 m except once we navigated 6.5 m waves (towards Tingin). Fjord wave height was fully developed in many fjords at 2 to 2.5 m. Mid-day temperatures drop from 5°C to -5°C northward as cruise progressed. Snow conditions were mild (Inugsuin, Clark and towards Pond Inlet)

SHIP-SIDE INSTRUMENTATION

Physical Oceanography

Datasonics Acoustic Profiler (HUDSON)

Ross Acoustic Profiler (GREBE)

Guildline Digital SCTD (HUDSON)

Guildline Portable SCTD (GREBE)

General Oceanics Rosette (HUDSON)

GO Niskin 5-L Water Samplers

GO Niskin 12-L Water Sampler

Larsen Attenuance Meter

HP 2100 MX Mini Computer

Oregon Red Attenuance Meter

Geophysics

Huntec DTS, Hewlett-Packard 3960A Tape Recorder

RTT 1000 Profiler (GREBE)

AGC Sidescan Sonar, Racal Store 4DS Recorded, FM

Klein 421T Sidescan Sonar, Racal Store 4DS Recorded, FM

Klein 421T Sidescan Sonar, TEAC R70A Recorder

40 In^3 Air Gun, NSRF Streamer, Tapered, Racal Store 4D Recorded, FM

Varion Magnetometer

Interocean 711EA Winch

TECHNICAL REPORT - By W.A. Boyce

Prepared systems such as Huntec DTS, AGC and Klein sidescan sonar and seismic reflection systems had little or no down time. Unprepared systems, such as RTT 1000 launch seismics and attenuance/rosette package did not perform well. Huntec records including ARM graphic function were up to usual good calibre. The AGC sidescan sonar was used in water depth too deep for bottom coverage at the chosen 6-7 knot survey speeds. However good records of high ranges of 1000-1500 m each side of ship's track resolved good signals from sidewalls as well as bottom areas where shallowing occurred (prodeltas, sills). The Klein 421T system in the GREBE produced good prodelta records. Seismic reflection records were better than average for surficial purposes, using NSRF tapered noise cancelling short streamer and 40 in^3 air gun.

The AGC small sidescan winch (Interocean 711EA) broke drive gearing teeth after new ones were installed last year suggesting that this winch may be too old or over powered for its present application. The rosette/ attenuance/CTD sampling package, after failing during previous cruises, was not overhauled or set up for cold climate operation. Although found to be in working order at BIO, no major inspection attempt or preparations were

made. Many problems were discovered, evaluated and mostly repaired with full description available on request from Project Coordinator.

The Guildline SCTD on HUDSON and GREBE as well as both acoustic packages performed well. Launch GREBE radar system broke down a number of times as did the HUDSON's: more care and better instrumentation are needed.

SCIENTIFIC LAUNCH RECOMMENDATIONS - By A. Hay

1. Range-Finding Radar and Spares

   The radar on the launch did not have a digital read-out variable-range ring, which is necessary for accurate position-fixing by radar. The radar unit failed early in the cruise and was inoperative for the remainder due to the absence of spare parts.

2. Precision Microwave Positioning System

   A system like Mini-Ranger or Trisponder is necessary near the deltas. The deltas themselves present very poor radar targets because of their low relief and variability, both tidal and long term. The best solution would be a precision system, with suveying equipment for locating the shore transponders.

3. Winch for Water and Bottom Sampling

   Could be gasoline powered and is needed in addition to the CTD winch. Should have a capstan for the sidescan tow cable.

4. Portable Shallow Seismic System

   The RTT-1000 did not produce good records. Part of the problem may have been the ADTEK-8000 Graphic Recorder, but this was never properly ascertained.

5. Anchoring

Three Danforth-type anchors of weight suitable for the launch and sufficient chain are required to effect triple-point mooring of the launch in up to 80 m of water.

6. A second shelf on the port side in the forecastle.

SUMMARY

	Grabs	Leheigh	Piston	CTD (Trites)	CTD (Ellis) Radio-Chemical	Cam.	Plank.	Neph.	JAWS
Sunneshine	5	3	1	6	1	4	3	-	-
Coronation	5	2	2	5	1	2	2	-	-
Maktak	7	4	2	6	11	3	3	-	-
North Pang.	4	2	-	-	-	1	1	-	-
Tingin	4	1	2	7	-	2	2	1	-
Iterbilung	4	2	1	4	1	2	2	-	-
McBeth	9	2	2	8	1	2	2	-	-
Inugsuin	7	2	2	9	1	1	1	3	-
Clark	8	2	2	8	-	2	2	1	-
Cambridge	9	2	2	9	1	3	2	1	1
	62	22	16	59	17	22	20	6	1

ACKNOWLEDGEMENTS

The Senior and Chief Scientists of this cruise extend great appreciation to the scientific staff whose enthusiasm and energy made this cruise the success it has shown to be. Their appreciation is also extended to Captain Mauger of the CSS HUDSON and his officers and crew who extended help beyond the call of duty. Many others, back at BIO and at various universities and government laboratories, who although did not attend, worked hard to assure success: to these, much appreciation.

WATER MONITORING STATIONS

DURING THE CRUISE 82-031 ON C.S.S. HUDSON, CTD PROFILES AND WATER SAMPLES WERE COLLECTED AT MOST STATIONS WITH A GUILDLINE CTD PACKAGE, EQUIPPED WITH A GENERAL OCEANICS ROSETTE SAMPLER COMPLETE WITH 10 (5 LITRE) NISKEN BOTTLES. CTD PROFILES WERE LOGGED ON THE UP AND DOWN CASTS ON MAGNETIC TAPE VIA A HP-2100MX MINI COMPUTER. WATER SAMPLES WERE COLLECTED ON THE UP CAST AND SUBSAMPLED FOR SALINITY, OXYGEN, NUTRIENTS AND SUSPENDED PARTICULATE MATTER (SPM). AT SELECTED STATIONS ADDITIONAL CASTS WERE DONE TO OBTAIN WATER SAMPLES FOR CESIUM-137 AND STRONTIUM-90 ANALYSIS.

STATION #	FIORD	TIME (ADT)	LATITUDE	LONGITUDE	DEPTH (M)	PLANKTON TOW DEPTH	SAMPLE DEPTH	STICKER #	SAMPLE DEPTH	STICKER #	STATION NOTES
CA1	CAMBRIDGE	2660533	711250	750000	196	170	185	8203734	30	8203739	SALINITY,OXYGEN,NUTRIENTS
							150	8203735	20	8203740	SUBSAMPLED.
							100	8203736	10	8203741	
							75	8203737	5	8203742	
							50	8203738	1	8203743	
CA1ELLS	CAMBRIDGE	2660625	711250	750000	196	0	190	8204469	0	0	SAMPLES TAKEN FOR KATHY
							100	8204487	0	0	ELLIS,CESIUM-137 AND
							50	8204488	0	0	STRONTIUM-90.
							1	8204489	0	0	
							0	0	0	0	
CA2	CAMBRIDGE	2660926	711620	745200	314	0	309	8203744	30	8203749	SALINITY,OXYGEN,NUTRIENTS
							200	8203745	20	8203750	SUBSAMPLED
							150	8203746	10	8203751	
							100	8203747	5	8203752	
							50	8203748	1	8203753	
CA3	CAMBRIDGE	2661620	712360	744000	366	0	362	8203754	30	8203759	SALINITY,OXYGEN,NUTRIENTS
							300	8203755	20	8203760	SUBSAMPLED
							200	8203756	10	8203761	
							100	8203757	5	8203762	
							50	8203758	1	8203763	
CA4	CAMBRIDGE	2661737	712650	744370	476	0	460	8203764	30	8203769	SALINITY,OXYGEN,NUTRIENTS
							400	8203765	20	8203770	SUBSAMPLED
							200	8203766	10	8203771	
							100	8203767	5	8203772	
							50	8203768	1	8203773	
CA5	CAMBRIDGE	2661912	713300	744570	575	0	560	8203774	30	8203779	SALINITY, OXYGEN AND
							400	8203775	20	8203780	NUTRIENTS SUBSAMPLED.
							200	8203776	10	8203781	
							100	8203777	5	8203782	
							50	8203778	1	8203783	

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CA6	CAMBRIDGE	2652114	713485	744000	640	0	636	8203724	30	8203729	SALINITY,OXYGEN,NUTRIENTS SUBSAMPLED.
							400	8203725	20	8203730	
							200	8203726	10	8203731	
							100	8203726	5	8203732	
							50	8203728	1	8203733	
CA602 W	CAMBRIDGE	266	0	0	0	0	0	8204701	0	0	SPRING NEAR BEACH. SUB-
							0	0	0	0	SAMPLED FOR SPM MAJOR
							0	0	0	0	IONS, TRACE METALS AND
							0	0	0	0	ISOTOPES.
							0	0	0	0	
CA603 W	CAMBRIDGE	266	0	0	0	0	0	8204702	0	0	SPRINGS NEAR BEACH SUB-
							0	0	0	0	SAMPLED FOR SPM, CS,
							0	0	0	0	MAJOR IONS TRACE METALS
							0	0	0	0	AND ISOTOPES.
							0	0	0	0	
CA604 W	CAMBRIDGE	266	0	0	0	0	0	8204703	0	0	SPRINGS NEAR BEACH.
							0	0	0	0	SUBSAMPLED FOR SPM,MAJOR
							0	0	0	0	IONS, TRACE METALS AND
							0	0	0	0	ISOTOPES.
							0	0	0	0	
CA605 W	CAMBRIDGE	266	0	0	0	0	0	8204704	0	0	10 FT OFF BEACH. SUB-
							0	0	0	0	SAMPLED FOR SPM MAJOR
							0	0	0	0	IONS, TRACE METALS,AND
							0	0	0	0	ISOTOPES.
							0	0	0	0	
CA606 W	CAMBRIDGE	266	0	0	0	0	0	8204705	0	0	10 FT OFF BEACH. SUB-
							0	0	0	0	SAMPLED FOR SPM, MAJOR
							0	0	0	0	IONS TRACE METALS AND
							0	0	0	0	ISOTOPES.
							0	0	0	0	

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STATION #	FIORD	TIME (AUT)	LATITUDE	LONGITUDE	DEPTH (M)	PLANKTON TOW DEPTH	SAMPLE DEPTH	STICKER #	SAMPLE DEPTH	STICKER #	STATION NOTES
CA607 W	CAMBRIDGE	266	0	0	0	0	0	8204706	0	0	10 FT OFF BEACH. SUB-
							0	0	0	0	SAMPLED FOR SPM, MAJOR
							0	0	0	0	IONS, TRACE METALS AND
							0	0	0	0	ISOTOPES.
							0	0	0	0	
CA608 W	CAMBRIDGE	266	0	0	0	0	0	8204707	0	0	10 FT OFF BEACH. SUB-
							0	0	0	0	SAMPLED FOR SPM, CS,
							0	0	0	0	MAJOR IONS, TRACE METALS
							0	0	0	0	AND ISOTOPES.
							0	0	0	0	
CA609 W	CAMBRIDGE	266	0	0	0	0	0	8204708	0	0	10 FT OFF BEACH. SUB-
							0	0	0	0	SAMPLED FOR SPM, CS,
							0	0	0	0	TRACE METALS, MAJOR IONS
							0	0	0	0	AND ISOTOPES.
							0	0	0	0	
CA610 W	CAMBRIDGE	266	0	0	0	0	0	8204709	0	0	NEAR POLYNYA. SUBSAMPLED
							0	0	0	0	FOR SPM, OX, N, MAJOR
							0	0	0	0	IONS, TRACE METALS AND
							0	0	0	0	ISOTOPES.
							0	0	0	0	
CA611 W	CAMBRIDGE	266	0	0	0	0	0	8204710	0	0	NEAR POLYNYA. SUBSAMPLED
							0	0	0	0	FOR SPM, N, MAJOR IONS
							0	0	0	0	TRACE METALS AND ISOTOPES
							0	0	0	0	
							0	0	0	0	
CA612 W	CAMBRIDGE	266	0	0	0	0	0	8204711	0	0	NEAR POLYNYA. SUBSAMPLED
							0	0	0	0	FOR SPM,OX,N,MAJOR IONS
							0	0	0	0	AND ISOTOPES.
							0	0	0	0	
							0	0	0	0	

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CA613 W	CAMBRIDGE	266	0	0	0	0	0	8204712	0	0	NEAR POLYNYA. SUBSAMPLED
							0	0	0	0	FOR SPM,OX,N,MAJOR IONS
							0	0	0	0	TRACE METALS AND ISOTOPES
							0	0	0	0	
							0	0	0	0	
CA614 W	CAMBRIDGE	266	0	0	0	0	0	8204713	0	0	NEAR POLYNYA. SUBSAMPLED
							0	0	0	0	FOR SPM,OX,N,TRACE METALS
							0	0	0	0	MAJOR IONS AND ISOTOPES
							0	0	0	0	
							0	0	0	0	
CA615 W	CAMBRIDGE	266	0	0	0	0	0	8204714	0	0	LAKES SOUTH OF POLYNYA.
							0	0	0	0	SUBSAMPLED:SPM,CS,MAJOR
							0	0	0	0	IONS AND ISOTOPES.
							0	0	0	0	APPROX. 200 FT ABOVE SL.
							0	0	0	0	
CA616 W	CAMBRIDGE	266	0	0	0	0	0	8204715	0	0	LAKES SOUTH OF POLYNYA
							0	0	0	0	SUBSAMPLED FOR SPM,CS,
							0	0	0	0	MAJOR IONS,TRACE METALS
							0	0	0	0	AND ISOTOPES.
							0	0	0	0	
CA7	CAMBRIDGE	2651920	714130	742560	398	0	380	8203714	30	8203719	SALINITY,OXYGEN,NUTRIENTS
							300	8203715	20	8203720	SUBSAMPLED.
							200	8203716	10	8203721	
							100	8203717	5	8203722	
							50	8203718	1	8203723	
CA8	CAMBRIDGE	2651645	714690	741230	631	0	630	8203704	50	8203709	SALINITY,OXYGEN,NUTRIENTS
							400	8203705	30	8203710	SUBSAMPLED.
							200	8203706	20	8203711	
							150	8203707	10	8203712	
							100	8203708	1	8203713	

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CA9	CAMBRIDGE	2651440	714880	733100	610	0	600	8203694	30	8203699	SALINITY,OXYGEN,NUTRIENTS
							400	8203695	20	8203700	SUBSAMPLED.
							200	8203696	10	8203701	
							100	8203697	5	8203702	
							50	8203698	0	8203703	

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CL1	CLARK	2641507	704960	723700	192	180	180,	8203614	30	8203619	SALINITY,OXYGEN,NUTRIENTS
							150	8203615	20	8203620	SUBSAMPLED.
							100	8203616	10	8203621	
							75	8203617	5	8203622	
							50	8203618	1	8203623	
CL2	CLARK	2641902	705000	722700	234	0	225	8203624	30	8203629	SALINITY,OXYGEN,NUTRIENTS
							200	8203625	20	8203630	SUBSAMPLED
							100	8203626	10	8203631	
							75	8203627	5	8203632	
							50	8203628	1	8203633	
CL3	CLARK	2641955	705280	721570	256	0	240	8203634	30	8203639	SALINITY,OXYGEN,NUTRIENTS
							200	8203635	20	8203640	SUBSAMPLED.
							100	8203636	10	8203641	
							75	8203637	5	8203642	
							50	8203638	1	8203643	
CL4	CLARK	2642150	705850	720730	540	0	535	8203644	30	8203649	SALINITY,OXYGEN,NUTRIENTS
							400	8203645	20	8203650	SUBSAMPLED.
							200	8203646	10	8203651	
							100	8203647	5	8203652	
							50	8203648	1	8203653	
CL5	CLARK	2652345	710550	715300	683	0	685	8203654	50	8203659	SALINITY,OXYGEN,NUTRIENTS
							600	8203655	30	8203660	
							400	8203656	20	8203661	
							200	8203657	10	8203662	
							100	8203658	5	8203663	
CL6	CLARK	2650405	710270	713100	655	0	655	8203664	50	8203669	SALINITY,OXYGEN,NUTRIENTS
							600	8203665	30	8203670	SUBSAMPLED EXCEPT FOR OXY
							400	8203666	20	8203671	SAMPLE # 8203667 VIAL WAS
							200	8203667	10	8203672	BROKEN NO TITRATION DONE.
							100	8203668	1	8203673	

WATER MONITORING STATIONS

DURING THE CRUISE 82-031 ON C.S.S. HUDSON, CTD PROFILES AND WATER SAMPLES WERE COLLECTED AT MOST STATIONS WITH A GUILDLINE CTD PACKAGE, EQUIPPED WITH A GENERAL OCEANICS ROSETTE SAMPLER COMPLETE WITH 10 (5 LITRE) NISKEN BOTTLES. CTD PROFILES WERE LOGGED ON THE UP AND DOWN CASTS ON MAGNETIC TAPE VIA A HP-2100MX MINI COMPUTER. WATER SAMPLES WERE COLLECTED ON THE UP CAST AND SUBSAMPLED FOR SALINITY, OXYGEN, NUTRIENTS AND SUSPENDED PARTICULATE MATTER (SPM). AT SELECTED STATIONS ADDITIONAL CASTS WERE DONE TO OBTAIN WATER SAMPLES FOR CESIUM-137 AND STRONTIUM-90 ANALYSIS.

STATION #	FJORD	TIME (ADT)	LATITUDE	LONGITUDE	DEPTH (M)	PLANKTON TOW DEPTH	SAMPLE DEPTH	STICKER #	SAMPLE DEPTH	STICKER #	STATION NOTES
CL7	CLARK	2650550	710260	711370	685	0	680	8203674	50	8203679	SALINITY,OXYGEN,NUTRIENTS SUBSAMPLED.
							600	8203675	30	8203680	
							400	8203676	20	8203681	
							200	8203677	10	8203682	
							100	8203678	1	8203683	
CL8	CLARK	2650745	711090	704920	790	0	765	8203684	50	8203689	SALINITY,OXYGEN,NUTRIENTS SUBSAMPLED.
							600	8203685	30	8203690	
							400	8203686	20	8203691	
							200	8203687	10	8203692	
							100	8203688	1	8203693	

WATER MONITORING STATIONS

DURING THE CRUISE 82-031 ON C.S.S. HUDSON, CTD PROFILES AND WATER SAMPLES WERE COLLECTED AT MOST STATIONS WITH A GUILDLINE CTD PACKAGE, EQUIPPED WITH A GENERAL OCEANICS ROSETTE SAMPLER COMPLETE WITH 10 (5 LITRE) NISKEN BOTTLES. CTD PROFILES WERE LOGGED ON THE UP AND DOWN CASTS ON MAGNETIC TAPE VIA A HP-2100MX MINI COMPUTER. WATER SAMPLES WERE COLLECTED ON THE UP CAST AND SUBSAMPLED FOR SALINITY, OXYGEN, NUTRIENTS AND SUSPENDED PARTICULATE MATTER (SPM). AT SELECTED STATIONS ADDITIONAL CASTS WERE DONE TO OBTAIN WATER SAMPLES FOR CESIUM-137 AND STRONTIUM-90 ANALYSIS.

STATION #	FIORD	TIME (ADT)	LATITUDE	LONGITUDE	DEPTH (M)	PLANKTON TOW DEPTH	SAMPLE DEPTH	STICKER #	SAMPLE DEPTH	STICKER #	STATION NOTES
C01	CORNATION	2561415	671250	644650	98	0	92	8203148	10	8203153	SALINITY,OXYGEN,NUTRIENTS SUBSAMPLED,SPM-NUCLEOPORE AND SILVER FILTERS.
							75	8203149	5	8203154	
							50	8203150	1	8203155	
							30	8203151	0	0	
							20	8203152	0	0	
C02	CORNATION	2561611	671410	643800	248	205	225	8203163	30	8203168	SALINITY,OXYGEN,NUTRIENTS SUBSAMPLED. SPM-NUCLEOPORE AND SILVER FILTERS.
							200	8203164	20	8203169	
							100	8203165	10	8203170	
							75	8203166	5	8203171	
							50	8203167	1	8203172	
C02-A	CORNATION	2561521	671410	643800	248	0	224	8203159	0	0	SAMPLE FOR KATHY ELLIS, RADIOCHEMISTRY. TESTED FOR CESIUM 137 AND STRONTIUM 90.
							100	8203160	0	0	
							50	8203161	0	0	
							1	8203162	0	0	
							0	0	0	0	
C03	CORNATION	2562035	671450	643000	269	0	250	8203173	50	8203178	SALINITY,OXYGEN,NUTRIENTS SUBSAMPLED. SPM-NUCLEOPORE AND SILVER FILTERS.
							200	8203174	30	8203179	
							150	8203175	20	8203180	
							100	8203176	10	8203181	
							75	8203177	1	8203182	
C04	CORNATION	2562310	671520	641820	356	200	352	8203183	30	8203188	SALINITY,OXYGEN,NUTRIENTS SUBSAMPLED. SPM-NUCLEOPORE AND SILVER FILTERS.
							300	8203184	20	8203189	
							200	8203185	10	8203190	
							100	8203186	5	8203191	
							50	8203187	1	8203192	
C05	CORNATION	2570228	671780	640900	497	0	497	8203193	30	8203198	SALINITY,OXYGEN,NUTRIENTS SUBSAMPLED. SPM-NUCLEOPORE AND SILVER FILTERS.
							400	8203194	20	8203199	
							200	8203195	10	8203200	
							100	8203196	5	8203201	
							50	8203197	1	8203202	

WATER MONITORING STATIONS

DURING THE CRUISE 82-031 ON C.S.S. HUDSON, CTD PROFILES AND WATER SAMPLES WERE COLLECTED AT MOST STATIONS WITH A GUILDLINE CTD PACKAGE, EQUIPPED WITH A GENERAL OCEANICS ROSETTE SAMPLER COMPLETE WITH 10 (5 LITRE) NISKEN BOTTLES. CTD PROFILES WERE LOGGED ON THE UP AND DOWN CASTS ON MAGNETIC TAPE VIA A HP-2100MX MINI COMPUTER. WATER SAMPLES WERE COLLECTED ON THE UP CAST AND SUBSAMPLED FOR SALINITY, OXYGEN, NUTRIENTS AND SUSPENDED PARTICULATE MATTER (SPM). AT SELECTED STATIONS ADDITIONAL CASTS WERE DONE TO OBTAIN WATER SAMPLES FOR CESIUM-137 AND STRONTIUM-90 ANALYSIS.

STATION #	FIORD	TIME (ADT)	LATITUDE	LONGITUDE	DEPTH (M)	PLANKTON TOW DEPTH	SAMPLE DEPTH	STICKER #	SAMPLE DEPTH	STICKER #	STATION NOTES
IN1	INUGSUIN	2630822	694080	694350	160	150	155	8203572	30	8203577	SALINITY,OXYGEN,NUTRIENTS
							125	8203573	20	8203578	SUBSAMPLED.
							100	8203574	10	8203579	
							75	8203575	5	8203580	
							50	8203576	1	8203581	
IN1-A	INUGSUIN	2630902	694080	694350	160	0	148	8204429	0	0	SALINITIES TAKEN.
							100	8204430	0	0	SAMPLES FOR KATHY ELLIS.
							50	8204431	0	0	TESTS DONE FOR CESIUM-137
							1	8204432	0	0	AND STRONTIUM-90.
							0	0	0	0	
IN2	INUGSUIN	2631318	694290	695400	280	0	270	8203582	30	8203587	SALINITY,OXYGEN,NUTRIENTS
							200	8203583	20	8203588	SUBSAMPLED.
							100	8203584	10	8203589	
							75	8203585	5	8203590	
							50	8203586	1	8203591	
IN3	INUGSUIN	2631519	694880	693300	557	0	550	8203592	30	8203597	SALINITY,OXYGEN,NUTRIENTS
							400	8203593	20	8203598	SUBSAMPLED.
							200	8203594	10	8203599	
							100	8203595	5	8203600	
							50	8203596	1	8203601	
IN4	INUGSUIN	2632000	695300	691725	585	0	560	8203602	30	8203607	SALINITY,OXYGEN,NUTRIENTS
							400	8203603	20	8203608	SUBSAMPLED.
							200	8203604	10	8203609	
							100	8203605	5	8203610	
							50	8203606	1	8203611	
IN5	INUGSUIN	2632121	695850	690200	503	0	100	8203612	0	0	SALINITY,OXYGEN,NUTRIENTS
							1	8203613	0	0	SUBSAMPLED.
							0	0	0	0	
							0	0	0	0	
							0	0	0	0	

WATER MONITORING STATIONS

DURING THE CRUISE 82-031 ON C.S.S. HUDSON, CTD PROFILES AND WATER SAMPLES WERE COLLECTED AT MOST STATIONS WITH A GUILDLINE CTD PACKAGE, EQUIPPED WITH A GENERAL OCEANICS ROSETTE SAMPLER COMPLETE WITH 10 (5 LITRE) NISKEN BOTTLES. CTD PROFILES WERE LOGGED ON THE UP AND DOWN CASTS ON MAGNETIC TAPE VIA A HP-2100MX MINI COMPUTER. WATER SAMPLES WERE COLLECTED ON THE UP CAST AND SUBSAMPLED FOR SALINITY, OXYGEN, NUTRIENTS AND SUSPENDED PARTICULATE MATTER (SPM). AT SELECTED STATIONS ADDITIONAL CASTS WERE DONE TO OBTAIN WATER SAMPLES FOR CESIUM-137 AND STRONTIUM-90 ANALYSIS.

STATION #	FIORD	TIME (ADT)	LATITUDE	LONGITUDE	DEPTH (M)	PLANKTON TOW DEPTH	SAMPLE DEPTH	STICKER #	SAMPLE DEPTH	STICKER #	STATION NOTES
IN6	INUGSUIN	2430128	700380	604140	267	0	260	8203562	30	8203567	SALINITY,OXYGEN,NUTRIENTS SUBSAMPLED. SPM:NUCLEOPORE AND SILVER FILTERS.
							200	8203563	20	8203568	
							100	8203564	10	8203569	
							75	8203565	5	8203570	
							50	8203566	1	8203571	
IN7	INUGSUIN	2622208	701910	601920	391	0	378	8203552	30	8203557	SALINITY,OXYGEN,NUTRIENTS SUBSAMPLED. SPM:NUCLEOPORE AND SILVER FILTERS.
							300	8203553	20	8203558	
							200	8203554	10	8203559	
							100	8203555	5	8203560	
							50	8203556	1	8203561	
IN8	INUGSUIN	2622049	702313	600364	338	0	325	8203542	30	8203547	SALINITY,OXYGEN,NUTRIENTS SUBSAMPLED. SPM:NUCLEOPORE AND SILVER FILTERS.
							300	8203543	20	8203548	
							200	8203544	10	8203549	
							100	8203545	5	8203550	
							50	8203546	1	8203551	

WATER MONITORING STATIONS

DURING THE CRUISE 82-031 ON C.S.S. HUDSON, CTD PROFILES AND WATER SAMPLES WERE COLLECTED AT MOST STATIONS WITH A GUILDLINE CTD PACKAGE, EQUIPPED WITH A GENERAL OCEANICS ROSETTE SAMPLER COMPLETE WITH 10 (5 LITRE) NISKEN BOTTLES. CTD PROFILES WERE LOGGED ON THE UP AND DOWN CASTS ON MAGNETIC TAPE VIA A HP-2100MX MINI COMPUTER. WATER SAMPLES WERE COLLECTED ON THE UP CAST AND SUBSAMPLED FOR SALINITY, OXYGEN, NUTRIENTS AND SUSPENDED PARTICULATE MATTER (SPM). AT SELECTED STATIONS ADDITIONAL CASTS WERE DONE TO OBTAIN WATER SAMPLES FOR CESIUM-137 AND STRONTIUM-90 ANALYSIS.

STATION #	FIORD	TIME (ADT)	LATITUDE	LONGITUDE	DEPTH (M)	PLANKTON TOW DEPTH	SAMPLE DEPTH	STICKER #	SAMPLE DEPTH	STICKER #	STATION NOTES
IT1	ITERBILUNG	2601015	691850	691000	167	150	145	8203416	30	8203421	SALINITY,OXYGEN,NUTRIENTS SUBSAMPLED.
							100	8203417	20	8203422	
							75	8203418	10	8203423	
							50	8203419	5	8203424	
							40	8203420	1	8203425	
IT1ELLS	ITERBILUNG	2601100	691850	691000	167	0	150	8204907	0	0	SAMPLES TAKEN FOR KATHY ELLIS FOR RADIOCHEMISTRY.
							100	8204908	0	0	
							50	8204909	0	0	
							1	8204910	0	0	
							0	0	0	0	
IT2	ITERBILUNG	2601510	692050	685300	320	0	305	8203426	30	8203431	SALINITY,OXYGEN,NUTRIENTS SUBSAMPLED.
							200	8203427	20	8203432	
							100	8203428	10	8203433	
							75	8203429	5	8203434	
							50	8203430	1	8203435	
IT3	ITERBILUNG	2601645	691690	682200	417	230	405	8203436	30	8203441	SALINITY,OXYGEN,NUTRIENTS SUBSAMPLED.
							300	8203437	20	8203442	
							200	8203438	10	8203443	
							100	8203439	5	8203444	
							50	8203440	1	8203445	
IT4	ITERBILUNG	2602045	691000	674500	303	0	290	8203446	30	8203451	SALINITY,OXYGEN,NUTRIENTS SUBSAMPLED.
							200	8203447	20	8203452	
							100	8203448	10	8203453	
							75	8203449	5	8203454	
							50	8203450	1	8203455	

WATER MONITORING STATIONS

DURING THE CRUISE 82-031 ON C.S.S. HUDSON, CTD PROFILES AND WATER SAMPLES WERE COLLECTED AT MOST STATIONS WITH A GUILDLINE CTD PACKAGE, EQUIPPED WITH A GENERAL OCEANICS ROSETTE SAMPLER COMPLETE WITH 10 (5 LITRE) NISKEN BOTTLES. CTD PROFILES WERE LOGGED ON THE UP AND DOWN CASTS ON MAGNETIC TAPE VIA A HP-2100MX MINI COMPUTER. WATER SAMPLES WERE COLLECTED ON THE UP CAST AND SUBSAMPLED FOR SALINITY, OXYGEN, NUTRIENTS AND SUSPENDED PARTICULATE MATTER (SPM). AT SELECTED STATIONS ADDITIONAL CASTS WERE DONE TO OBTAIN WATER SAMPLES FOR CESIUM-137 AND STRONTIUM-90 ANALYSIS.

STATION #	FIORD	TIME (ADT)	LATITUDE	LONGITUDE	DEPTH (M)	PLANKTON TOW DEPTH	SAMPLE DEPTH	STICKER #	SAMPLE DEPTH	STICKER #	STATION NOTES
MA1	MAKTAK	2571042	672130	644650	90	0	75	8203213	5	8203218	SALINITY,OXYGEN,NUTRIENTS
							50	8203214	1	8203219	SUBSAMPLED.
							30	8203215	0	0	SPM-NUCLEOPORE AND SILVER
							20	8203216	0	0	FILTERS.
							10	8203217	0	0	
MA2	MAKTAK	2571300	671970	643360	257	230	254	8203220	30	8203225	SALINITY,OXYGEN,NUTRIENTS
							200	8203221	20	8203226	SUBSAMPLED.
							100	8203222	10	8203227	SPM-NUCLEOPORE FILTER
							75	8203223	5	8203228	
							50	8203224	1	8203229	
MA2-A	MAKTAK	2571215	671970	643360	252	0	250	8203230	0	0	SAMPLE FOR KATHY ELLIS.
							100	8203231	0	0	RADIOCHEMISTRY.
							50	8203232	0	0	
							1	8203233	0	0	
							0	0	0	0	
MA4	MAKTAK	2571635	671890	641700	333	300	320	8203234	30	8203239	SALINITY,OXYGEN,NUTRIENTS
							300	8203235	20	8203240	SUBSAMPLED.
							200	8203236	10	8203241	SPM-NUCLEOPORE FILTER.
							100	8203237	5	8203242	
							50	8203238	1	8203243	
MA5	MAKTAK	2570340	671750	640100	585	550	576	8203203	30	8203208	SALINITY,OXYGEN,NUTRIENTS
							400	8203204	20	8203209	SUBSAMPLED.
							200	8203205	10	8203210	SPM-NUCLEOPORE FILTER.
							100	8203206	5	8203211	
							50	8203207	1	8203212	
MA6A	MAKTAK	2581107	672743	633540	658	0	640	8203244	50	8203249	SALINITY,OXYGEN,NUTRIENTS
							600	8203245	30	8203250	SUBSAMPLED.
							400	8203246	20	8203251	SPM-NUCLEOPORE FILTER.
							200	8203247	10	8203252	
							100	8203248	1	8203253	

WATER MONITORING STATIONS

DURING THE CRUISE 82-031 ON C.S.S. HUDSON, CTD PROFILES AND WATER SAMPLES WERE COLLECTED AT MOST STATIONS WITH A GUILDLINE CTD PACKAGE, EQUIPPED WITH A GENERAL OCEANICS ROSETTE SAMPLER COMPLETE WITH 10 (5 LITRE) NISKEN BOTTLES. CTD PROFILES WERE LOGGED ON THE UP AND DOWN CASTS ON MAGNETIC TAPE VIA A HP-2100MX MINI COMPUTER. WATER SAMPLES WERE COLLECTED ON THE UP CAST AND SUBSAMPLED FOR SALINITY, OXYGEN, NUTRIENTS AND SUSPENDED PARTICULATE MATTER (SPM). AT SELECTED STATIONS ADDITIONAL CASTS WERE DONE TO ORTAIN WATER SAMPLES FOR CESIUM-137 AND STRONTIUM-90 ANALYSIS.

STATION #	FIORD	TIME (ADT)	LATITUDE	LONGITUDE	DEPTH (M)	PLANKTON TOW DEPTH	SAMPLE DEPTH	STICKER #	SAMPLE DEPTH	STICKER #	STATION NOTES
MA7	MAKTAK	2581240	673480	643440	585	0	575	8203254	30	8203259	SALINITY,OXYGEN,NUTRIENTS
							400	8203255	20	8203260	SUBSAMPLED.
							200	8203256	10	8203261	SPM-NUCLEOPORE FILTER.
							100	8203257	5	8203262	
							50	8203258	1	8203263	

WATER MONITORING STATIONS

DURING THE CRUISE 82-031 ON C.S.S. HUDSON, CTD PROFILES AND WATER SAMPLES WERE COLLECTED AT MOST STATIONS WITH A GUILDLINE CTD PACKAGE, EQUIPPED WITH A GENERAL OCEANICS ROSETTE SAMPLER COMPLETE WITH 10 (5 LITRE) NISKEN BOTTLES. CTD PROFILES WERE LOGGED ON THE UP AND DOWN CASTS ON MAGNETIC TAPE VIA A HP-2100NX MINI COMPUTER. WATER SAMPLES WERE COLLECTED ON THE UP CAST AND SUBSAMPLED FOR SALINITY, OXYGEN, NUTRIENTS AND SUSPENDED PARTICULATE MATTER (SPM). AT SELECTED STATIONS ADDITIONAL CASTS WERE DONE TO OBTAIN WATER SAMPLES FOR CESIUM-137 AND STRONTIUM-90 ANALYSIS.

STATION #	FIORD	TIME (ADT)	LATITUDE	LONGITUDE	DEPTH (M)	PLANKTON TOW DEPTH	SAMPLE DEPTH	STICKER #	SAMPLE DEPTH	STICKER #	STATION NOTES
MC1	MCBETH	2611748	693290	694750	329	0	312	8203486	30	8203491	SUBSAMPLED FOR SALINITY,
							200	8203487	20	8203492	OXYGEN AND NUTRIENTS.
							100	8203488	10	8203493	CTD FOR TRITES.
							75	8203489	5	8203500	NO OXY AT 50 M DEPTH.
							50	8203490	1	8203501	
MC11	MCBETH	2610405	692950	663900	250	0	241	8203456	30	8203461	SALINITY,OXYGEN,NUTRIENTS
							200	8203457	20	8203462	SUBSAMPLED. SAMPLE FOR
							100	8203458	10	8203463	ELLIS.
							75	8203459	5	8203464	
							50	8203460	1	8203465	
MC1ELLS	MCBETH	2612030	693290	694750	329	300	313	8204412	0	0	CTD LOWERED FOR ELLIS
							100	8204413	0	0	CESIUM-137 & STRONTIUM-90
							50	8204414	0	0	CABLE BEING TESTED AT
							1	8204415	0	0	SAME TIME. SEEMS TO WORK.
							0	0	0	0	
MC3	MCBETH	2620056	693140	691600	440	0	435	8203502	30	8203507	SALINITY,OXYGEN,NUTRIENTS
							300	8203503	20	8203508	SUBSAMPLED.
							200	8203504	10	8203509	
							100	8203505	5	8203510	
							50	8203506	1	8203511	
MC3ELLS	MCBETH	2620020	693140	691600	440	0	420	8204416	0	0	SAMPLES TAKEN FOR KATHY
							1	8204417	0	0	ELLIS.TESTS DONE FOR
							0	0	0	0	CS-137 AND STRONTIUM-90.
							0	0	0	0	
							0	0	0	0	
MC4	MCBETH	2620240	693470	685700	530	0	520	8203512	30	8203517	SALINITY,OXYGEN,NUTRIENTS
							400	8203513	20	8203518	SUBSAMPLED.
							200	8203514	10	8203519	NO OXYGEN TITRATION AT
							100	8203515	5	8203520	20 M DEPTH.
							50	8203516	1	8203521	

WATER MONITORING STATIONS

DURING THE CRUISE 82-031 ON C.S.S. HUDSON, CTD PROFILES AND WATER SAMPLES WERE COLLECTED AT MOST STATIONS WITH A GUILDLINE CTD PACKAGE. EQUIPPED WITH A GENERAL OCEANICS ROSETTE SAMPLER COMPLETE WITH 10 (5 LITRE) NISKEN BOTTLES. CTD PROFILES WERE LOGGED ON THE UP AND DOWN CASTS ON MAGNETIC TAPE VIA A HP-2100MX MINI COMPUTER. WATER SAMPLES WERE COLLECTED ON THE UP CAST AND SUBSAMPLED FOR SALINITY, OXYGEN, NUTRIENTS AND SUSPENDED PARTICULATE MATTER (SPM). AT SELECTED STATIONS ADDITIONAL CASTS WERE DONE TO OBTAIN WATER SAMPLES FOR CESIUM-137 AND STRONTIUM-90 ANALYSIS.

STATION #	FIORD	TIME (ADT)	LATITUDE	LONGITUDE	DEPTH (M)	PLANKTON TOW DEPTH	SAMPLE DEPTH	STICKER #	SAMPLE DEPTH	STICKER #	STATION NOTES
MC6	MCBETH	2610840	693170	680940	415	0	380	8203476	30	8203481	SALINITY,OXYGEN,NUTRIENTS SUBSAMPLED.
							300	8203477	20	8203482	
							200	8203478	10	8203483	
							100	8203479	5	8203484	
							50	8203480	1	8203485	
MC7	MCBETH	2620835	693750	681600	497	480	490	8203522	30	8203527	SALINITY,OXYGEN,NUTRIENTS SUBSAMPLED. SPM:NUCLEOPORE AND SILVER FILTERS.
							400	8203523	20	8203528	
							200	8203524	10	8203529	
							100	8203525	5	8203530	
							50	8203526	1	8203531	
MC8	MCBETH	2621350	694400	674400	290	0	287	8203532	30	8203537	SALINITY,OXYGEN,NUTRIENTS SUBSAMPLED,EXCEPT OX-30M. SPM:NUCLEOPORE AND SILVER FILTERS.
							200	8203533	20	8203538	
							100	8203534	10	8203539	
							75	8203535	5	8203540	
							50	8203536	1	8203541	
MC9	MCBETH	2610645	693000	685100	326	0	305	8203466	30	8203471	SALINITY,OXYGEN,NUTRIENTS SUBSAMPLED. SPM:NUCLEOPORE AND SILVER FILTERS.
							200	8203467	20	8203472	
							100	8203468	10	8203473	
							75	8203469	5	8203474	
							50	8203470	1	8203475	

SUNNESHINE

DURING THE CRUISE 82 031 ON C.S.S. HUDSON, CTD PROFILES AND WATER SAMPLES WERE COLLECTED AT MOST STATIONS WITH A GUILDLINE CTD PACKAGE, EQUIPPED WITH A GENERAL OCEANICS ROSETTE SAMPLER COMPLETE WITH 10 (5 LITRE) NISKEN BOTTLES. CTD PROFILES WERE LOGGED ON THE UP AND DOWN CASTS ON MAGNETIC TAPE VIA A HP-2100MX MINI COMPUTER. WATER SAMPLES WERE COLLECTED ON THE UP CAST AND SUBSAMPLED FOR SALINITY, OXYGEN, NUTRIENTS AND SUSPENDED PARTICULATE MATTER (SPM). AT SELECTED STATIONS ADDITIONAL CASTS WERE DONE TO OBTAIN WATER SAMPLES FOR CESIUM-137 AND STRONTIUM-90 ANALYSIS.

STATION	CLOUD	TIME (ADT)	LATITUDE	LONGITUDE	DEPTH (M)	PLANKTON TOW DEPTH	SAMPLE DEPTH	STICKER #	SAMPLE DEPTH	STICKER #	STATION NOTES
SU1	SUNNESHINE	2541054	663695	615380	215	175	200	8203101	30	8203106	SALINITY,OXYGEN,NUTRIENTS SUBSAMPLED. NO OXYGEN SAMPLE FOR 8203104 (75M).
							150	8203102	20	8203107	
							100	8203103	10	8203108	
							75	8203104	5	203109	
							50	8203105	1	8203110	
SU1-A	SUNNESHINE	2542105	663702	615423	215	0	180	8204817	0	0	SAMPLE FOR KATHY ELLIS, RADIOCHEMICAL.
							100	8204816	0	0	
							50	8204815	0	0	
							1	8204814	0	0	
							0	0	0	0	
SU1ELLS	SUNNESHINE	2542100	663702	615423	192	0	180	8204814	0	0	SAMPLES TAKEN FOR KATHY ELLIS, CESIUM-137 AND STRONTIUM-90.
							100	8204815	0	0	
							50	8204816	0	0	
							1	8204817	0	0	
							0	0	0	0	
SU5	SUNNESHINE	2542342	663330	614260	155	125	150	8203112	20	8203117	SALINITY,OXYGEN,NUTRIENTS SUBSAMPLED,SPM-NUCLEOPORE AND SILVER FILTERS,SPM ON 8203117 POSSIBLY IN ERROR
							100	8203113	10	8203118	
							75	8203114	5	8203119	
							50	8203115	1	8203120	
							30	8203116	0	0	
SU6	SUNNESHINE	2550722	663070	613920	100	0	150	8203122	20	8203127	SALINITY,OXYGEN,NUTRIENTS SUBSAMPLED.
							100	8203123	10	8203128	
							75	8203124	5	8203129	
							50	8203125	1	8203130	
							30	8203126	0	0	
SU7	SUNNESHINE	2550400	662930	613100	67	60	57	8203131	5	8203136	SALINITY,OXYGEN,NUTRIENTS SUBSAMPLED.
							50	8203132	1	8203137	
							30	8203133	0	0	
							20	8203134	0	0	
							10	8203135	0	0	

SUNNESHINE

DURING THE CRUISE 82-031 ON C.S.S. HUDSON, CTD PROFILES AND WATER SAMPLES WERE COLLECTED AT MOST STATIONS WITH A GUILDLINE CTD PACKAGE, EQUIPPED WITH A GENERAL OCEANICS ROSETTE SAMPLER COMPLETE WITH 10 (5 LITRE) NISKEN BOTTLES. CTD PROFILES WERE LOGGED ON THE UP AND DOWN CASTS ON MAGNETIC TAPE VIA A HP-2100MX MINI COMPUTER. WATER SAMPLES WERE COLLECTED ON THE UP CAST AND SUBSAMPLED FOR SALINITY, OXYGEN, NUTRIENTS AND SUSPENDED PARTICULATE MATTER (SPM). AT SELECTED STATIONS ADDITIONAL CASTS WERE DONE TO OBTAIN WATER SAMPLES FOR CESIUM-137 AND STRONTIUM-90 ANALYSIS.

STATION #	FIORD	TIME (ADT)	LATITUDE	LONGITUDE	DEPTH (M)	PLANKTON TOW DEPTH	SAMPLE DEPTH	STICKER #	SAMPLE DEPTH	STICKER #	STATION NOTES
SU8	SUNNESHINE	2551040	663010	611180	160	0	155	8203138	30	8203143	SALINITY,OXYGEN,NUTRIENTS
							150	8203139	20	8203144	SUBSAMPLED.SPM-NUSLEOPORE
							100	8203140	10	8203145	AND SILVER FILTERS.
							75	8203141	5	8203146	
							50	8203142	1	8203147	

WATER MONITORING STATIONS

DURING THE CRUISE 82-031 ON C.S.S. HUDSON, CTD PROFILES AND WATER SAMPLES WERE COLLECTED AT MOST STATIONS WITH A GUILDLINE CTD PACKAGE, EQUIPPED WITH A GENERAL OCEANICS ROSETTE SAMPLER COMPLETE WITH 10 (5 LITRE) NISKEN BOTTLES. CTD PROFILES WERE LOGGED ON THE UP AND DOWN CASTS ON MAGNETIC TAPE VIA A HP-2100MX MINI COMPUTER. WATER SAMPLES WERE COLLECTED ON THE UP CAST AND SUBSAMPLED FOR SALINITY, OXYGEN, NUTRIENTS AND SUSPENDED PARTICULATE MATTER (SPM). AT SELECTED STATIONS ADDITIONAL CASTS WERE DONE TO OBTAIN WATER SAMPLES FOR CESIUM-137 AND STRONTIUM-90 ANALYSIS.

STATION #	FJORD	TIME (ADT)	LATITUDE	LONGITUDE	DEPTH (M)	PLANKTON TOW DEPTH	SAMPLE DEPTH	STICKER #	SAMPLE DEPTH	STICKER #	STATION NOTES
TI1	TINGIN	2591650	685940	685760	90	0	85	8203278	10	8203283	SALINITY,OXYGEN,NUTRIENTS SUBSAMPLED,8203278 & 284 BOTTLES BROKE, NO OXYGEN SUBSAMPLED.
							75	8203279	5	8203284	
							50	8203280	1	8203285	
							30	8203281	0	0	
							20	8203282	0	0	
TI1A	TINGIN	2591740	690540	685400	302	280	285	8203286	30	8203291	SALINITY,OXYGEN,NUTRIENTS SUBSAMPLED.
							200	8203287	20	8203292	
							100	8203288	10	8203293	
							75	8203289	5	8203294	
							50	8203290	1	8203295	
TI2	TINGIN	2592215	690700	685050	347	0	330	8203296	30	8203401	SALINITY,OXYGEN,NUTRIENTS SUBSAMPLED.
							300	8203297	20	8203402	
							200	8203298	10	8203403	
							100	8203299	5	8203404	
							50	8203300	1	8203405	
TI3	TINGIN	2592355	691150	682350	487	400	475	8203406	30	8203411	SALINITY,OXYGEN,NUTRIENTS SUBSAMPLED.
							400	8203407	20	8203412	
							200	8203408	10	8203413	
							100	8203409	5	8203414	
							50	8203410	1	8203415	
TI4	TINGIN	2591155	690580	675450	298	0	280	8203276	0	0	SALINITY,OXYGEN,NUTRIENTS SUBSAMPLED.
							1	8203277	0	0	
							0	0	0	0	
							0	0	0	0	
							0	0	0	0	
TI5	TINGIN	2591010	685425	671720	575	0	550	8203274	0	0	SALINITY,OXYGEN,NUTRIENTS SUBSAMPLED.
							1	8203275	0	0	
							0	0	0	0	
							0	0	0	0	
							0	0	0	0	

WATER MONITORING STATIONS

DURING THE CRUISE 82-031 ON C.S.S. HUDSON, CTD PROFILES AND WATER SAMPLES WERE COLLECTED AT MOST STATIONS WITH A GUILDLINE CTD PACKAGE, EQUIPPED WITH A GENERAL OCEANICS ROSETTE SAMPLER COMPLETE WITH 10 (5 LITRE) NISKEN BOTTLES. CTD PROFILES WERE LOGGED ON THE UP AND DOWN CASTS ON MAGNETIC TAPE VIA A HP-2100MX MINI COMPUTER. WATER SAMPLES WERE COLLECTED ON THE UP CAST AND SUBSAMPLED FOR SALINITY, OXYGEN, NUTRIENTS AND SUSPENDED PARTICULATE MATTER (SPM). AT SELECTED STATIONS ADDITIONAL CASTS WERE DONE TO OBTAIN WATER SAMPLES FOR CESIUM-137 AND STRONTIUM-90 ANALYSIS.

STATION #	FIORD	TIME (ADT)	LATITUDE	LONGITUDE	DEPTH (M)	PLANKTON TOW DEPTH	SAMPLE DEPTH	STICKER #	SAMPLE DEPTH	STICKER #	STATION NOTES
T16	TINGIN	2590745	684890	660540	800	0	770	8203264	50	8203269	SALINITY,OXYGEN,NUTRIENTS
							600	8203265	30	8203270	SUBSAMPLED.
							400	8203266	20	8203271	SPM-NUCLEOPORE FILTER.
							200	8203267	10	8203272	
							100	8203268	1	8203273	

GRABS

DURING THE CRUISE 82-031 ON C.S.S. HUDSON, GRAB SAMPLES WERE TAKEN AT MOST STATIONS USING A VAN VEEN OR SHIPEK SAMPLER. 3 SUBSAMPLES WERE TAKEN FROM THE SURFACE LAYER AND 1 FROM THE SUBSURFACE LAYER IF THE SAMPLE WAS NOT HOMOGENEOUS. MACROFAUNA SAMPLES WERE TAKEN IF PRESENT. THE REMAINDER OF THE SAMPLE WAS STORED IN A PLASTIC BAG/BUCKET. ALL SAMPLES WERE LABELED WITH THE CRUISE AND STATION NUMBERS AND A YELLOW TAG NUMBER. THE FORAM AND MACROFAUNA SAMPLES WERE TREATED WITH FORMALIN.

STATION #	FJORD	TIME (GMT)	LATITUDE	LONGITUDE	DEPTH (M)	TYPE OF SAMPLER	SUBS (SURF)	SUBS (SUBSURF)	SUBS (MACRO)	STICKER #	STATION NOTES
CA1	CAMBRIDGE	2660550	711250	750000	196	VAN VEEN	3	1	1	8204466	1-FORAM(SCH) 2-SUBF(SYV) 3-BACT(STROH) 4 SUBSURF (SYV) 5-MACROFAUNA OLIVE GREEN MUD - 1CM - MED BROWN SURFACE MUD.
CA1-G	CAMBRIDGE	2661400	711250	750000	196	IKU SAMP	3	3	3	NO #	THE IKU (JAWS) SAMPLER WAS SET UP AND SUCCESSFULLY RUN BY BOB MURPHY. ON THE THIRD ATTEMPT THE GRAB WORKED WITH A 15M FREE FALL. THE GRAB WAS COMPLETELY FULL AND SUBSAMPLED BY C.T. SCHAFER.
CA2	CAMBRIDGE	2660905	711620	745200	316	VAN VEEN	3	1	0	8204491	1-FORAM(SCH) 2-SUBF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) SANDY MUD BELOW
CA3	CAMBRIDGE	2661643	712340	744000	366	VAN VEEN	3	1	0	8204494	APPROX 1 CM THICK. OLIVE GREEN MUD. ---- UPPER UNIT MEDIUM BROWN MUD, BOTH UNITS LADEN WITH ICE RAFTED MATERIAL. TWO ATTEMPTS WERE MADE TO GET SAMPLE.COBBLE IN 1ST.

GRABS

DURING THE CRUISE 82-031 ON C.S.S. HUDSON, GRAB SAMPLES WERE TAKEN AT MOST STATIONS USING A VAN VEEN OR SHIPEK SAMPLER. 3 SUBSAMPLES WERE TAKEN FROM THE SURFACE LAYER AND 1 FROM THE SUBSURFACE LAYER IF THE SAMPLE WAS NOT HOMOGENEOUS. MACROFAUNA SAMPLES WERE TAKEN IF PRESENT. THE REMAINDER OF THE SAMPLE WAS STORED IN A PLASTIC BAG/BUCKET. ALL SAMPLES WERE LABELED WITH THE CRUISE AND STATION NUMBERS AND A YELLOW TAG NUMBER. THE FORAM AND MACROFAUNA SAMPLES WERE TREATED WITH FORMALIN.

STATION #	FIORD	TIME (ADT)	LATITUDE	LONGITUDE	DEPTH (M)	TYPE OF SAMPLER	SUBS (SURF)	SUBS (SUBSURF)	SUBS (MACRO)	STICKER #	STATION NOTES
CA4	CAMBRIDGE	2661720	712650	744370	476	VAN VEEN	3	1	0	8204495	UPPER UNIT 1/2 CM THICK. LOWER UNIT OLIVE GREEN M MUD. UPPER UNIT OXIDIZED, CONTAINS DROPSTONES AND BRITTLE STARS.
CA5	CAMBRIDGE	2661945	713300	744570	575	VAN VEEN	3	1	0	8204497	UPPER UNIT SOUPY LOWER UNIT OLIVE GREEN MUD AND SILT PLUS SOME ICE RAFTED DEBRIS.
CA6	CAMBRIDGE	2652302	713485	744000	640	VAN VEEN	3	1	0	8204461	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) 3 MM BROWN SILTY CLAY OVERLYING HOMOGENEOUS LTY CLAY.
CA7	CAMBRIDGE	2651950	714130	742520	398	VAN VEEN	3	1	0	8204460	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) UPPER: THIN BROWN SURFACE LAYER (1 CM) LOWER: GREEN MUD (SILT) FREQUENT PEBBLES TWO ATTEMPTS

GRABS

DURING THE CRUISE 82 031 ON C.S.S. HUDSON, GRAB SAMPLES WERE TAKEN AT MOST STATIONS USING A VAN VEEN OR SHIPEK SAMPLER. 3 SUBSAMPLES WERE TAKEN FROM THE SURFACE LAYER AND 1 FROM THE SUBSURFACE LAYER IF THE SAMPLE WAS NOT HOMOGENEOUS. MACROFAUNA SAMPLES WERE TAKEN IF PRESENT. THE REMAINDER OF THE SAMPLE WAS STORED IN A PLASTIC BAG/BUCKET. ALL SAMPLES WERE LABELED WITH THE CRUISE AND STATION NUMBERS AND A YELLOW TAG NUMBER. THE FORAM AND MACROFAUNA SAMPLES WERE TREATED WITH FORMALIN.

STATION #	FLOAT	TIME (GMT)	LATITUDE	LONGITUDE	DEPTH (M)	TYPE OF SAMPLER	SUBS (SURF)	SUBS (SUBSURF)	SUBS (MACRO)	STICKER #	STATION NOTES
CA8	CAMBRIDGE	2651715	714690	741230	681	VAN VEEN	3	1	0	8204457	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) GREEN MUD OVERLAIN BY MEDIUM BROWN SURFACE MUD
CA9	CAMBRIDGE	2651515	714800	733100	610	VAN VEEN	3	1	1	8204456	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) 5-MACROFAUNA
CL1	CLARK	2641522	704960	723700	192	VAN VEEN	3	1	1	8204438	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) 5-MACROFAUNA THIN VENEER OF SURFACE MATERIAL, LOWER UNIT FIRM -COLLECTIVELY A SILTY CLAY.
CL2	CLARK	2641920	705000	722700	234	VAN VEEN	3	1	0	8204443	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) GREY CLAY- NO SURFACE SEDIMENT.

GRABS

DURING THE CRUISE 82-031 ON C.S.S. HUDSON, GRAB SAMPLES WERE TAKEN AT MOST STATIONS USING A VAN VEEN OR SHIPEK SAMPLER. 3 SUBSAMPLES WERE TAKEN FROM THE SURFACE LAYER AND 1 FROM THE SUBSURFACE LAYER IF THE SAMPLE WAS NOT HOMOGENEOUS. MACROFAUNA SAMPLES WERE TAKEN IF PRESENT. THE REMAINDER OF THE SAMPLE WAS STORED IN A PLASTIC BAG/BUCKET. ALL SAMPLES WERE LABELED WITH THE CRUISE AND STATION NUMBERS AND A YELLOW TAG NUMBER. THE FORAM AND MACROFAUNA SAMPLES WERE TREATED WITH FORMALIN.

STATION #	FIORD	TIME (ADT)	LATITUDE	LONGITUDE	DEPTH (M)	TYPE OF SAMPLER	SUBS (SURF)	SUBS (SUBSURF)	SUBS (MACRO)	STICKER #	STATION NOTES
CL3	CLARK	2442054	705280	721570	256	VAN VEEN	3	1	0	8204444	1-FORAM(SCH) 2-SURF(SYV) -BACT(STROH) 4-SUBSURF (SYV) SILT AND CLAY WITH ONE COBBLE IN IT.
CL4	CLARK	2442230	705850	720730	530	VAN VEEN	3	1	0	8204447	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) SAND WITH A THIN COVER OF SILTY CLAY.
CL5	CLARK	2650130	710550	715600	683	VAN VEEN	3	1	0	8204452	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) UPPER UNIT-LARGE SILTY CLAY. LOWER UNIT-FIRM GREY CLAY WITH SOME SILT AND SAND.
CL6	CLARK	2650410	710270	713100	552	VAN VEEN	3	1	1	8204453	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) 5-MACROFAUNA 1-2CM BROWN SEDIMENT UNDERLAIN BY GREEN CLAY. SOME SILT SAND + 1 COBBLE

GRABS

DURING THE CRUISE 82-031 ON C.S.S. HUDSON, GRAB SAMPLES WERE TAKEN AT MOST STATIONS USING A VAN VEEN OR SHIPEK SAMPLER. 3 SUBSAMPLES WERE TAKEN FROM THE SURFACE LAYER AND 1 FROM THE SUBSURFACE LAYER IF THE SAMPLE WAS NOT HOMOGENEOUS. MACROFAUNA SAMPLES WERE TAKEN IF PRESENT. THE REMAINDER OF THE SAMPLE WAS STORED IN A PLASTIC BAG/BUCKET. ALL SAMPLES WERE LABELLED WITH THE CRUISE AND STATION NUMBERS AND A YELLOW TAG NUMBER. THE FORAM AND MACROFAUNA SAMPLES WERE TREATED WITH FORMALIN.

STATION #	FJORD	TIME (ADT)	LATITUDE	LONGITUDE	DEPTH (M)	TYPE OF SAMPLER	SUBS (SURF)	SUBS (SUBSURF)	SUBS (MACRO)	STICKER #	STATION NOTES
CL7	CLARK	2650615	710260	711370	685	VAN VEEN	3	1	0	8204454	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) MEDIUM BROWN CLAY AND COURSE SAND, UNDERLYING GREEN CLAY WITH OCCASIONAL PEBBLES.
CL8	CLARK	2650836	711090	704920	755	VAN VEEN	3	1	0	8204455	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) BROWN SILTY CLAY OVER GREENISH CLAY.
C01	CORNATION	2561400	631250	644650	90	SHIPEK	3	1	1		1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) GREY SOUPY HOMOGENEOUS SILTY CLAY. WORM TUBES PRESENT.
C02	CORNATION	2561642	671410	643800	240	SHIPEK	3	0	0	8204884	1-FORAM(SCH) 2-SURF(SYV) -BACT(STROH) GREENISH GREY MUD

GRABS

DURING THE CRUISE 82-031 ON C.S.S. HUDSON, GRAB SAMPLES WERE TAKEN AT MOST STATIONS USING A VAN VEEN OR SHIPEK SAMPLER. 3 SUBSAMPLES WERE TAKEN FROM THE SURFACE LAYER AND 1 FROM THE SUBSURFACE LAYER IF THE SAMPLE WAS NOT HOMOGENEOUS. MACROFAUNA SAMPLES WERE TAKEN IF PRESENT. THE REMAINDER OF THE SAMPLE WAS STORED IN A PLASTIC BAG/BUCKET. ALL SAMPLES WERE LABELED WITH THE CRUISE AND STATION NUMBERS AND A YELLOW TAG NUMBER. THE FORAM AND MACROFAUNA SAMPLES WERE TREATED WITH FORMALIN.

STATION #	FIORD	TIME (ADT)	LATITUDE	LONGITUDE	DEPTH (M)	TYPE OF SAMPLER	SUBS (SURF)	SUBS (SUBSURF)	SUBS (MACRO)	STICKER #	STATION NOTES
C03	CORONATION	2562021	671450	643000	269	SHIPEK	3	0	0	8204853	HOMOGENEOUS. SILT AND CLAY.
C04	CORNATION	2562235	671520	641820	356	SHIPEK	3	0	1	8204855	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) 5-MACROFAUNA SILTY CLAY
C05	CORNATION	2560323	671780	640900	495	SHIPEK	3	1	1	8204860	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) DISTINCT LAYERS. SOUPEY TOP, COMPACTED BOTTOM. CLAYEY SILT.
IH1	INUGSUIN	2639043	694080	694350	160	VAN VEEN	3	0	0	8204423	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) HOMOGENEOUS SILTY CLAY.

GRABS

DURING THE CRUISE 82 031 ON C.S.S. HUDSON, GRAB SAMPLES WERE TAKEN AT MOST STATIONS USING A VAN VEEN OR SHIPEK SAMPLER. 3 SUBSAMPLES WERE TAKEN FROM THE SURFACE LAYER AND 1 FROM THE SUBSURFACE LAYER IF THE SAMPLE WAS NOT HOMOGENEOUS. MACROFAUNA SAMPLES WERE TAKEN IF PRESENT. THE REMAINDER OF THE SAMPLE WAS STORED IN A PLASTIC BAG/BUCKET. ALL SAMPLES WERE LABELED WITH THE CRUISE AND STATION NUMBERS AND A YELLOW TAG NUMBER. THE FORAM AND MACROFAUNA SAMPLES WERE TREATED WITH FORMALIN.

STATION #	FIXED	TIME (AHT)	LATITUDE	LONGITUDE	DEPTH (M)	TYPE OF SAMPLER	SUBS (SURF)	SUBS (SUBSURF)	SUBS (MACRO)	STICKER #	STATION NOTES
IN2	INUGSUIN	2631337	694290	695400	103	VAN VEEN	3	1	1	8204434	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) 5-MACROFAUNA. UPPER LAYER: THIN LAYER OF LIGHT BROWN MUD. LOWER LAYER: LIGHT GREY MEDIUM SAND.
IN3	INUGSUIN	2631500	694800	693300	557	VAN VEEN	3	1	0	8204324	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV)
IN4	INUGSUIN	2632024	695300	691725	570	VAN VEEN	3	1	1	8204436	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) 5-MACROFAUNA SILTY MUD, UNDERLAIN BY A MUDDY SAND. SAND HIGH IN HEAVY MINERALS.
IN5	INUGISUIN	2632136	695850	690200	503	VAN VEEN	3	1	0	8204437	UPPER UNIT GREENISH COLOR LOWER UNIT BLACK ---------- BOTH UPPER AND LOWER UNITS ARE SILTY MUD. LOWER UNIT CONTAINS HIGH PERCENTAGE OF HEAVY MINERALS THUS BLACK COLOR

GRABS

DURING THE CRUISE 82-031 ON C.S.S. HUDSON, GRAB SAMPLES WERE TAKEN AT MOST STATIONS USING A VAN VEEN OR SHIPEK SAMPLER. 3 SUBSAMPLES WERE TAKEN FROM THE SURFACE LAYER AND 1 FROM THE SUBSURFACE LAYER IF THE SAMPLE WAS NOT HOMOGENEOUS. MACROFAUNA SAMPLES WERE TAKEN IF PRESENT. THE REMAINDER OF THE SAMPLE WAS STORED IN A PLASTIC BAG/BUCKET. ALL SAMPLES WERE LABELED WITH THE CRUISE AND STATION NUMBERS AND A YELLOW TAG NUMBER. THE FORAM AND MACROFAUNA SAMPLES WERE TREATED WITH FORMALIN.

STATION #	FIORD	TIME (ADT)	LATITUDE	LONGITUDE	DEPTH (M)	TYPE OF SAMPLER	SUBS (SURF)	SUBS (SUBSURF)	SUBS (MACRO)	STICKER #	STATION NOTES
IN6	INUGSUIN	2630146	700380	684140	267	VAN VEEN	3	1	1	8204428	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) 5-MACROFAUNA SURFACE: SILTY CLAY. SUBSURFACE: SILTY CLAY WITH ICE RAFTED SAND AND PEBBLES . MACROFAUNA PRESENT.
IN7	INUGSUIN	2622240	701910	681920	417	VAN VEEN	3	1	1	8204421	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) 5-MACROFAUNA HOMOGENEOUS MUD.
IN8	INUGSUIN	2622122	702313	680364	338	VAN VEEN	3	1	0	8204312	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF(SYV) UPPER: BROWN MUD (SILT AND CLAY). LOWER: COMPACTED GREENISH GREY FIRM COMPACTED MUD.
IT1	ITERBILUNG	2601250	691850	691000	167	VAN VEEN	3	1	1	8204904	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) 5-MACROFAUNA TOP UNIT: SOUPEY BROWN CLAYEY SILT. LOWER UNIT: GREY CLAYEY SILT WITH ISOLATED POCKETS OF SANBD

GRABS

DURING THE CRUISE 82 031 ON C.S.S. HUDSON, GRAB SAMPLES WERE TAKEN AT MOST STATIONS USING A VAN VEEN OR SHIPEK SAMPLER. 2 SUBSAMPLES WERE TAKEN FROM THE SURFACE LAYER AND 1 FROM THE SUBSURFACE LAYER IF THE SAMPLE WAS NOT HOMOGENEOUS. MACROFAUNA SAMPLES WERE TAKEN IF PRESENT. THE REMAINDER OF THE SAMPLE WAS STORED IN A PLASTIC BAG/BUCKET. ALL SAMPLES WERE LABELLED WITH THE CRUISE AND STATION NUMBERS AND A YELLOW TAG NUMBER. THE FORAM AND MACROFAUNA SAMPLES WERE TREATED WITH FORMALIN.

STATION #	FIORD	TIME (ADT)	LATITUDE	LONGITUDE	DEPTH (M)	TYPE OF SAMPLER	SUBS (SURF)	SUBS (SUBSURF)	SUBS (MACRO)	STICKER #	STATION NOTES
IT2-A	ITERBILUNG	2601550	692050	695300	320	VANVEEN	4	1	1	8204880	UPPER UNIT LESS COMPACTED LOWER UNIT MORE COMPACTED 1.FORAMS 2.SURFACE 3.SUB-SURFACE 3.BACTERIA 4.MACROFAUNA.
IT3	ITERBILUNG	2601722	691690	682200	417	VAN VEEN	3	1	1	8204881	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) CLAYEY SILT, TOP LAYER SOUPEY, BOTTOM FIRM. GREENISH GREY.
IT4	ITERBILUNG	2602024	691000	674500	303	VAN VEEN	3	1	1	8204404	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF(SYV) 5-MACRO GREENISH HOMOGENEOUS MUD
MA1	MAKTAK	2571031	672130	644650	90	SHIPEK	3	1	0	8204893	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SMITH HOMOGENEOUS GREY SILTY CLAY.

GRABS

DURING THE CRUISE 82-031 ON C.S.S. HUDSON, GRAB SAMPLES WERE TAKEN AT MOST STATIONS USING A VAN VEEN OR SHIPEK SAMPLER. 3 SUBSAMPLES WERE TAKEN FROM THE SURFACE LAYER AND 1 FROM THE SUBSURFACE LAYER IF THE SAMPLE WAS NOT HOMOGENEOUS. MACROFAUNA SAMPLES WERE TAKEN IF PRESENT. THE REMAINDER OF THE SAMPLE WAS STORED IN A PLASTIC BAG/BUCKET. ALL SAMPLES WERE LABELED WITH THE CRUISE AND STATION NUMBERS AND A YELLOW TAG NUMBER. THE FORAM AND MACROFAUNA SAMPLES WERE TREATED WITH FORMALIN.

STATION #	FIORD	TIME (ADT)	LATITUDE	LONGITUDE	DEPTH (M)	TYPE OF SAMPLER	SUBS (SURF)	SUBS (SUBSURF)	SUBS (MACRO)	STICKER #	STATION NOTES
MA2	MAKTAK	2571154	671970	643360	252	VAN VEEN	3	1	0	8204892	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) 5-FORAM(SCH) CLAYEY SILT- 2 UNITS. SOUPEY TOP - COMPACTED BOTTOM.
MA4	MAKTAK	2571617	671890	641700	333	VAN VEEN	4	1	1	8204899	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) 5-MACROFAUNA UPPER-SOUPY BROWN CLAYEY SILT. LOWER-FIRM GREY CLAYEY SILT. WORM TUBES.
MA5	MAKTAK	2570417	671750	640100	585	SHIPEK	3	1	1	8204862	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF SYV) 5-MACROFAUNA UPPER LAYER-SOUPEY BROWN CLAYEY SILT. LOWER-FIRM GREY CLAYEY SILT. SLIGHTLY INVERTED IN GRAB
MA5A	MAKTAK	2580705	671680	635500	575	SHIPEK	3	1	0	8204999	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) 5-ROCK SOUPEY BROWN CLAYEY SILT OVER FIRM GREY CLAYEY SILT.

GRABS

DURING THE CRUISE 82 031 ON C.S.S. HUDSON, GRAB SAMPLES WERE TAKEN AT MOST STATIONS USING A VAN VEEN OR SHIPEK SAMPLER. 3 SUBSAMPLES WERE TAKEN FROM THE SURFACE LAYER AND 1 FROM THE SUBSURFACE LAYER IF THE SAMPLE WAS NOT HOMOGENEOUS. MACROFAUNA SAMPLES WERE TAKEN IF PRESENT. THE REMAINDER OF THE SAMPLE WAS STORED IN A PLASTIC BAG/BUCKET. ALL SAMPLES WERE LABELLED WITH THE CRUISE AND STATION NUMBERS AND A YELLOW TAG NUMBER. THE FORAM AND MACROFAUNA SAMPLES WERE TREATED WITH FORMALIN.

STATION #	FIORD	TIME (ADT)	LATITUDE	LONGITUDE	DEPTH (M)	TYPE OF SAMPLER	SUBS (SURF)	SUBS (SUBSURF)	SUBS (MACRO)	STICKER #	STATION NOTES
MA6A	MAKTAK	2501042	672743	633540	670	SHIPEK	3	1	1	8204975	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) 5-MACROFAUNA SILTY CLAY
MA7	MAKTAK	2501310	673480	643420	585	VAN VEEN	3	1	1	8205095	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) 5-MACROFAUNA CLAYEY SILT, SOUPEY BROWN MUD OVER GREENISH GREY MUD.
MC1	MCBETH	2411815	693290	694750	322	VAN VEEN	4	1	0	8204301	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) 5-MACROFAUNA 1ST ATTEMPT GOT A BOULDER (IN BAG) AND 2ND ATTEMPT GOT A SAMPLE.
MC11	MCBETH	2410443	692950	663900	250	VAN VEEN	3	1	1	8204405	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) 5-MACROFAUNA UPPER:BROWN SOUPEY MUD. LOWER:DARK GREENISH GREY FIRM CLAY

GRABS

DURING THE CRUISE 82-031 ON C.S.S. HUDSON, GRAB SAMPLES WERE TAKEN AT MOST STATIONS USING A VAN VEEN OR SHIPEK SAMPLER. 3 SUBSAMPLES WERE TAKEN FROM THE SURFACE LAYER AND 1 FROM THE SUBSURFACE LAYER IF THE SAMPLE WAS NOT HOMOGENEOUS. MACROFAUNA SAMPLES WERE TAKEN IF PRESENT. THE REMAINDER OF THE SAMPLE WAS STORED IN A PLASTIC BAG/BUCKET. ALL SAMPLES WERE LABELED WITH THE CRUISE AND STATION NUMBERS AND A YELLOW TAG NUMBER. THE FORAM AND MACROFAUNA SAMPLES WERE TREATED WITH FORMALIN.

STATION #	FIORD	TIME (ADT)	LATITUDE	LONGITUDE	DEPTH (M)	TYPE OF SAMPLER	SUBS (SURF)	SUBS (SUBSURF)	SUBS (MACRO)	STICKER #	STATION NOTES
MC3	MCBETH	2620122	693140	691600	432	VAN VEEN	3	1	0	8204419	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) GREEN GREY CLAY, VERY LOW SILT CONTENT. TOP UNIT LESS COMPACTED THAN LOWER
MC4	MCBETH	2620223	693470	685700	530	VAN VEEN	3	1	1	8204307	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) 5-MACROFAUNA CLAY WITH SOME SILT AND VERY FINE SAND. TOP LAYER SOUPEY. 1 DROPSTONE BOULDER.
MC5	MCBETH	2620400	693680	683500	572	VAN VEEN	3	1	0	8204420	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) FINE GRAINED SILT AND CLAY.2 UNITS, SOUPEY ON TOP, FIRM BELOW.
MC6	MCBETH	2610816	693170	680940	425	VAN VEEN	3	1	0	8204408	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) UPPER UNIT: BROWN SOUPEY MUD. LOWER UNIT: FIRMER GREENISH GREY MUD.

GRABS

DURING THE CRUISE 82 031 ON C.S.S. HUDSON, GRAB SAMPLES WERE TAKEN AT MOST STATIONS USING A VAN VEEN OR SHIPEK SAMPLER. 3 SUBSAMPLES WERE TAKEN FROM THE SURFACE LAYER AND 1 FROM THE SUBSURFACE LAYER IF THE SAMPLE WAS NOT HOMOGENEOUS. MACROFAUNA SAMPLES WERE TAKEN IF PRESENT. THE REMAINDER OF THE SAMPLE WAS STORED IN A PLASTIC BAG/BUCKET. ALL SAMPLES WERE LABELED WITH THE CRUISE AND STATION NUMBERS AND A YELLOW TAG NUMBER. THE FORAM AND MACROFAUNA SAMPLES WERE TREATED WITH FORMALIN.

STATION #	FIORD	TIME (ADT)	LATITUDE	LONGITUDE	DEPTH (M)	TYPE OF SAMPLER	SUBS (SURF)	SUBS (SUBSURF)	SUBS (MACRO)	STICKER #	STATION NOTES
MC7	MCRETH	2620914	693750	681600	497	VAN VEEN	3	0	0	8204306	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) GREY HOMOGENEOUS MUD.
MC8	MCRETH	2621416	694400	674400	0	VAN VEEN	3	1	0	8204422	1-FORAM(SCH) 2 SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) BROWN SOUPEY MUD OVER GREY COMPACTED MUD.
MC9	MCRETH	2610645	693000	685100	326	VAN VEEN	3	1	0	8204406	UPPERMOST BROWN SOUPY MUD LOWER FIRM LOWER UNIT FIRM GREEN GRAY MUD, WITH BLACK STREAKS.
MP1	MPANGNIRTUNG	2500022	670350	644000	80	VAN VEEN	3	1	0	8204867	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) SOUPEY BROWN MUD OVER COMPACTED GREY MUD.

GRABS

DURING THE CRUISE 82-031 ON C.S.S. HUDSON, GRAB SAMPLES WERE TAKEN AT MOST STATIONS USING A VAN VEEN OR SHIPEK SAMPLER. 3 SUBSAMPLES WERE TAKEN FROM THE SURFACE LAYER AND 1 FROM THE SUBSURFACE LAYER IF THE SAMPLE WAS NOT HOMOGENEOUS. MACROFAUNA SAMPLES WERE TAKEN IF PRESENT. THE REMAINDER OF THE SAMPLE WAS STORED IN A PLASTIC BAG/BUCKET. ALL SAMPLES WERE LABELED WITH THE CRUISE AND STATION NUMBERS AND A YELLOW TAG NUMBER. THE FORAM AND MACROFAUNA SAMPLES WERE TREATED WITH FORMALIN.

STATION #	FIORD	TIME (ADT)	LATITUDE	LONGITUDE	DEPTH (M)	TYPE OF SAMPLER	SUBS (SURF)	SUBS (SUBSURF)	SUBS (MACRO)	STICKER #	STATION NOTES
NP2	NPANGNIRTUNG	2580127	670950	642500	347	VAN VEEN	3	1	1	8204871	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) 5-MACROFAUNA SOUPEY BROWN MUD OVER FIRM MUD. BIG WORM TUBES.
NP3	NPANGNIRTUNG	2580345	671160	640500	333	VAN VEEN	3	1	1	8204976	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) SOUPEY BROWN LAYER OVER A FIRM GREY LAYER. CLAYEY SILT.
SU1	SUNNESHINE	2541834	663702	615423	215	SHIPEK	3	1	0	8204801	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) SILTY CLAY
SU5	SUNNESHINE	2542337	663330	614260	155	SHIPEK	3	1	0	8204833	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV)

GRABS

DURING THE CRUISE 82-031 ON C.S.S. HUDSON, GRAB SAMPLES WERE TAKEN AT MOST STATIONS USING A VAN VEEN OR SHIPEK SAMPLER. 3 SUBSAMPLES WERE TAKEN FROM THE SURFACE LAYER AND 1 FROM THE SUBSURFACE LAYER IF THE SAMPLE WAS NOT HOMOGENEOUS. MACROFAUNA SAMPLES WERE TAKEN IF PRESENT. THE REMAINDER OF THE SAMPLE WAS STORED IN A PLASTIC BAG/BUCKET. ALL SAMPLES WERE LABELED WITH THE CRUISE AND STATION NUMBERS AND A YELLOW TAG NUMBER. THE FORAM AND MACROFAUNA SAMPLES WERE TREATED WITH FORMALIN.

STATION #	FIORD	TIME (ADT)	LATITUDE	LONGITUDE	DEPTH (M)	TYPE OF SAMPLER	SUBS (SURF)	SUBS (SUBSURF)	SUBS (MACRO)	STICKER #	STATION NOTES
SU6	SUNNESHINE	2550225	663070	613920	117	MACINTYR	3	1	1	8204836	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) 5-MACROFAUNA GREENISH GREY SILTY MUD. MICA AND FERROMAG. WELL SORTED. HOMOGENEOUS.
SU7	SUNNESHINE	2550420	662930	613100	67	SHIPEK	3	0	1	8204824	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 5-MACROFAUNA GREENISH GREY SANDY/SILTY (SOME FINES)(MUD). HIGH MICA CONTENT AND FERRO MAG. WELL SORTED.
SU8	SUNNESHINE	2551040	663010	611180	160	SHIPEK	3	0	6	8204843	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-MACROFAUNA MEDIUM GRAINED SAND WITH SAND GRAVEL. MOST GRAVEL ON SURFACE.
TI1A	TINGIN	2591740	690540	685400	302	VAN VEEN	3	1	0	8205097	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) SOUPEY BROWN SURFACE LAYER OVER A GREENISH GREY FIRM SAND WITH SOME CLAY. SURFACE HAS SOME SAND. IRON OXIDE IN LOWER

GRABS

DURING THE CRUISE 82-031 ON C.S.S. HUDSON, GRAB SAMPLES WERE TAKEN AT MOST STATIONS USING A VAN VEEN OR SHIPEK SAMPLER. 3 SUBSAMPLES WERE TAKEN FROM THE SURFACE LAYER AND 1 FROM THE SUBSURFACE LAYER IF THE SAMPLE WAS NOT HOMOGENEOUS. MACROFAUNA SAMPLES WERE TAKEN IF PRESENT. THE REMAINDER OF THE SAMPLE WAS STORED IN A PLASTIC BAG/BUCKET. ALL SAMPLES WERE LABELED WITH THE CRUISE AND STATION NUMBERS AND A YELLOW TAG NUMBER. THE FORAM AND MACROFAUNA SAMPLES WERE TREATED WITH FORMALIN.

STATION #	FIORD	TIME (ADT)	LATITUDE	LONGITUDE	DEPTH (M)	TYPE OF SAMPLER	SUBS (SURF)	SUBS (SUBSURF)	SUBS (MACRO)	STICKER #	STATION NOTES
TI2	TINGIN	2592143	690700	685050	347	VAN VEEN	3	1	0	8204874	1-FORAM(SCH) 2-SURF(SYV) 3-BACT(STROH) 4-SUBSURF (SYV) GREY SILTY CLAY, UPPER LAYER BROWN MUDDY SILTY CLAY, LOWER GREY SILTY CLAY.
TI3	TINGIN	2600030	691150	682350	487	VAN VEEN	3	1	0	8204876	1-FORAM(SCH) 2-SURF(SYV) 3-SUBSURF(SYV) 4-BACTERIA(STROH)
TI6	TINGIN	2590803	684890	660540	800	VAN VEEN	3	1	0	8305096	1-FORAM(SCH) 2-SURF(SYV) 3-SUBSURF(SYV) 4-BACTERIA (STROH)

CORES

FOLL. IS A SUMMARY OF THE WORK DONE ON LEHEIGH CORES TAKEN ON 82-031 HUDSON. PISTON CORES WERE ALSO COLLECTED ON THIS CRUISE.
GEOCHEMICAL SYNOPOSIS:: GEOCHEMICAL PROCEDURES INCLUDED SPLITTING,DESCRIBING,LOGGING,ARCHIVING,SUBSAMPLING AND EVALUATING ELECTROMAGNETIC PARAMETERS INCLUDING PH,PE AND PS. LEHEIGH CORES EXAMINED ARE SU5,C04,MA2,NP2,T13,MC7,IN3 AND CA2 RESPECTIVELY.
CONCLUSION: STASTICAL EVALUATION,BASED ON 260 DISCRETE SUBSAMPLES AND 780 DATA POINTS INDICATES THE FOLL. OXIDATION-REDUCTION SEQUENCE. C04>MA2>T13>NP2>IN3>MC7>SU5 RESPECTIVELY. END MEMBERS INCLUDE C04(OXIDIZED) WITH PH=7.42+/- 0.05, PE=4.79+/-0.30 AND PS=3.49+/-0.27 AS APPOSED TO SU5 (REDUCED) WITH PH=7.80+/-0.07,PE=3.25+/-0.73 AND PS=2.53+/-0.19 RESPECTIVELY.
GEOTECHNICAL SYNOPOSIS:: LEHEIGH CORES WERE HALVED AND SPLIT ONBOARD. SUBSAMPLES BAGGED INCLUDE- CORE CATCHER(CC),DROP STONES(DST), GEOTECH(GT),LITHOLOGIC(L) AND WATER CONTENT(W). MINIATURE VANE SHEAR TESTS(MVS) AND PICON VANE SHEAR CALIBRATIONS(PVS) WERE DONE DOWN CORE. CORES WERE LABELLED:CRUISE,STATION,YELLOW TAG. INCREMENTS IN METERS. STYROFOAM PLUGS INSERTED WHERE SUBSAMPLES TAKEN.

STATION #	PTORD	TIME (ADT)	LAT	LONG	STICKER #	DEPTH (M)	EQUIP TYPE	LENTH	TWC	SEC	NOTES	NOTES
CA-2D	CAMBRIDGE	2661043	711620	745200	8204493	316	LEHEIGH	145	N	1	GRAY BROWN MUD SLIGHTLY BIOTURBATED, 93-94 THIN SAND LENS. 93-94 GRAY BROWN MUD SLIGHTY BIOTURBATED. ELECTRO- PH=7.38+/-0.14 (N=25) PE=4.37+/-0.39 (N=25) PS=2.78+/-0.29 (N=25)	CONCLUSION: OXIDATION > REDUCTION SEQUENCE IS AS FOLLOWS C0-4>CA-2>MA-2>T1-3>NP-2>IN-4>MC-7>SU-5 SO BE IT!!!
CA-2F	CAMBRIDGE	2660955	711620	745200	8204492	316	BENTHOS	0	Y	0	CORE STORED IN UPRIGHT POSITION IN COOLER.DEPTH AND LENGTH WILL BE REPORTED WHEN HUDSON RETURNS	
CA-4G	CAMBRIDGE	2660015	713405	744000	8204465	640	LEHEIGH	249	N	2	3-SECT T/TOP M/MID B/BOT L=2.72M GRADED SS-SL DEPTH TST SAMPLES 0.07M --- GT 83,83 W 0.22M MVS GT 84,84 W 0.50M MVS GT 85,85 W 0.90M MVS GT 86,86 W 0.95M MVS GT 87,87 W 1.50M MVS GT 88,88 W	1.90M MVS GT 89,89 W 2.00M MVS GT 90,90 W 2.20M MVS GT 91,91 W 2.50M MVS GT 92,92 W 0.75M MVS GT 93,93 W 1.52M DST (DROPSTONE) 0.92M SHELL DATING SURF PB-210 DATING CC CORECATCHER

CORES

FOLL. IS A SUMMARY OF THE WORK DONE ON LEHEIGH CORES TAKEN ON 82-031 HUDSON. PISTON CORES WERE ALSO COLLECTED ON THIS CRUISE.
GEOCHEMICAL SYNOPOSIS:: GEOCHEMICAL PROCEDURES INCLUDED SPLITTING,DESCRIBING,LOGGING,ARCHIVING,SUBSAMPLING AND EVALUATING ELECTROMAGNETIC PARAMETERS INCLUDING PH,PE AND PS. LEHEIGH CORES EXAMINED ARE SU5,CO4,MA2,NP2,TI3,MC7,IN3 AND CA2 RESPECTIVELY. CONCLUSION: STASTICAL EVALUATION,BASED ON 260 DISCRETE SUBSAMPLES AND 780 DATA POINTS INDICATES THE FOLL. OXIDATION>REDUCTION SEQUENCE. CO4>MA2>TI3>NP2>IN3>MC7>SU5 RESPECTIVELY. END MEMBERS INCLUDE CO4(OXIDIZED) WITH PH=7.42+/- 0.05. PE=4.79+/-0.30 AND PS=3.49+/-0.27 AS APPOSED TO SU5 (REDUCED) WITH PH=7.80+/-0.07,PE=3.25+/-0.73 AND PS=2.53+/-0.19 RESPECTIVELY.
GEOTECHNICAL SYNOPOSIS:: LEHEIGH CORES WERE HALVED AND SPLIT ONBOARD. SUBSAMPLES BAGGED INCLUDE- CORE CATCHER(CC),DROP STONES(DST), GEOTECH(GT),LITHOLOGIC(L) AND WATER CONTENT(W). MINIATURE VANE SHEAR TESTS(MVS) AND FLICON VANE SHEAR CALIBRATIONS(FVS) WERE DONE DOWN CORE. CORES WERE LABELLED;CRUISE,STATION,YELLOW TAG. INCREMENTS IN METERS. STYROFOAM PLUGS INSERTED WHERE SUBSAMPLES TAKEN.

STATION #	FIORD	TIME (ADT)	LAT	LONG	STICKER #	DEPTH (M)	EQUIP TYPE	LENTH	TWC	SEC	NOTES	NOTES
CA-6P	CANBRIDGE	2662334	713485	744000	8204464	640	BENTHOS	0	Y	0	CORE STORED IN UPRIGHT IN COOLER EXCEPT 5FT SECTION THE 12-4 WATCH LOST . THIS SECTION STORED IN BUCKET IN COOLER LABELLED PISTON CORE E-F MURPHY WATCH LEADER	
CL-5-G	CLARK	2650246	710550	715300	8204451	683	LEHEIGH	0	Y	0		1ST BARREL BROKE OFF, 2ND BARREL FRACTURED IN THE
CL1-G	CLARK	2641611	704960	723700	8204440	192	LEHEIGH	127	N	2	CL-1:0.00-1.25 M DEPTH MASSIVE,STRUCTURELESS SANDY MUDS,LOTS OF 'REDUCED' STREAKS, NO DEFD BURROWS, DISPERSED CONGL. AND PEBBLE CONCENTRATION ORG SHELLY ZONE 0.75M DEPTH TST SAMPLE:	0.02M --- GT77,77W 0.20M MVS GT78,78W 0.35M MVS GT79,79W 0.60M MVS GT80,80W 0.80M MVS GT81,81W 1.00M MVS GT82,82W DRP STONES:TOP FEW CM,0.3M,0.6M PEBBLE CONCENTRATE FVS .6,.8,.4,.2,1M

FOLI, IS A SUMMARY OF THE WORK DONE ON LEHEIGH CORES TAKEN ON 82-031 HUDSON. PISTON CORES WERE ALSO COLLECTED ON THIS CRUISE.
GEOCHEMICAL SYNOPOSIS:: GEOCHEMICAL PROCEDURES INCLUDED SPLITTING,DESCRIBING,LOGGING,ARCHIVING,SUBSAMPLING AND EVALUATING
ELECTROMAGNETIC PARAMETERS INCLUDING PH,PE AND PS. LEHEIGH CORES EXAMINED ARE SU5,CO4,MA2,NF2,TI3,NC7,IN3 AND CA2 RESPECTIVELY.
CONCLUSION: STASTICAL EVALUATION,BASED ON 240 DISCRETE SUBSAMPLES AND /80 DATA POINTS INDICATES THE FOLI. OXIDATION REDUCTION
SEQUENCE, CO4>MA2>TI3>NF2>IN3>NC7>SU5 RESPECTIVELY. END MEMBERS INCLUDE CO4(OXIDIZED) WITH PH=7.42+/- 0.05, PE=4.79+/ 0.30 AND
PS=3.49+/ 0.27 AS APPOSED TO SU5 (REDUCED) WITH PH=7.80+/-0.07,PE=3.25+/-0.73 AND PS=2.53+/-0.19 RESPECTIVELY.
GEOTECHNICAL SYNOPOSIS:: LEHEIGH CORES WERE HALVED AND SPLIT ONBOARD. SUBSAMPLES BAGGED INCLUDE- CORE CATCHER(CC),DROP STONES(DST),
GEOTECH(GT),LITHOLOGIC(L) AND WATER CONTENT(W). MINIATURE VANE SHEAR TESTS(MVS) AND FLICON VANE SHEAR CALIBRATIONS(FVS) WERE DONE
DOWN CORE. CORES WERE LABELLED;CRUISE,STATION,YELLOW TAG. INCREMENTS IN METERS. STYROFOAM PLUGS INSERTED WHERE SUBSAMPLES TAKEN.

STATION #	FIORD	TIME (GMT)	LAT	LONG	STICKER #	DEPTH (M)	EQUIP TYPE	LENTH	TWC	SEC	NOTES	NOTES
CL1-P	CLARK	2641537	704960	723700	8204439	192	BENTHOS	420	Y	3		
												DISTURBATED GREENISH SILTY CLAY.
CL5-P	CLARK	2650207	710550	715300	8204450	603	BENTHOS	1016	N	7	NOTES: A LEHEIGH CORE WAS TAKEN AT THIS STATION BUT AFTER TWO ATTEMPTS AND TWO BROKEN LEHEIGH CORE BARRELS WE GAVE UP!	
												NO TWC, CATCHER AND CUTTER SEDIMENTS SAVED IN,
CO2-G	CORNATION	2561850	671410	643800	8204887	248	LEHEIGH	248	N	2	CO2(T):0.0-1.25 M DEPTH CO2(B):1.25-2.48 M DEPTH GREYISH BLACK MUD, TOP 0.1 M DISTURBED, WATER WASH TO 0.9 M FROM BASE UP, LOWER 0.4 M WELL-LAMINATED SANDS AND SILT. DEPTH TST SAMPLES: 0.10M MVS GT6,25W	0.60M MVS GT7,70W 0.95M MVS GT8,14W 1.5 M MVS GT9,20W 1.9 M MVS GT10,37W 2.3 M MVS GT11,66W CO2 CC CORE CATCHER DISTURBED DURING SPLIT WATER WASHED UP THE SIDES CORE CATCHER SUBSAMPLED 2

FOLL. IS A SUMMARY OF THE WORK DONE ON LEHEIGH CORES TAKEN ON 82-031 HUDSON. PISTON CORES WERE ALSO COLLECTED ON THIS CRUISE.
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GEOTECHNICAL SYNOPOSIS:! LEHEIGH CORES WERE HALVED AND SPLIT ONBOARD. SUBSAMPLES BAGGED INCLUDE- CORE CATCHER(CC),DROP STONES(DST), GEOTECH(GT),LITHOLOGIC(L) AND WATER CONTENT(W). MINIATURE VANE SHEAR TESTS(MVS) AND FLICON VANE SHEAR CALIBRATIONS(FVS) WERE DONE DOWN CORE. CORES WERE LABELLED;CRUISE,STATION,YELLOW TAG. INCREMENTS IN METERS. STYROFOAM PLUGS INSERTED WHERE SUBSAMPLES TAKEN.

STATION #	FIORD	TIME (ADT)	LAT	LONG	STICKER #	DEPTH (M)	EQUIP TYPE	LENTH	TWC	SEC	NOTES	NOTES
C02-P	CORNATION	2561710	671410	643800	8204809	248	BENTHOS	1067	Y	7	NO GEOCHEMICAL ANALYSIS DONE,ALL 7 SECTIONS A-H WERE STORED UPRIGHT IN COOLER.	
											NO GEOTECHNICAL ANALYSIS	CORE CUTTER BENT. FULL PEN. OF TWC. LOST 15 CM.
C04-G	CORNATION	2570130	671520	641820	8204858	356	LEHEIGH	246	N	2	PH= 7.42 +/- .05 (N=34) PE= 4.79 +/- .30 (N=33) PS= 3.49 +/- .27 (N=34)	
C04-P	CORNATION	2570044	671520	641820	8204859	356	BENTHOS	1090	Y	7	NO GEOCHEMICAL ANALYSIS	
												TWC FULL PENETRATION.40FT BARREL,7 SECTIONS A-H

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STATION #	FIORD	TIME (ADT)	LAT	LONG	STICKER #	DEPTH (M)	EQUIP TYPE	LENTH	TWC	SEC	NOTES	NOTES
IN1-G	INUGSUIN	2631130	694080	69435	8204425	160	LEHEIGH	245	N	2	IN1(T):0.00-1.23 M DEPTH IN1(B)1.23-2.45 M DEPTH WELL-DEFD GREY/TAN TURBS UP TO GRANULE SIZE MATERIAL;MIDDLE MORE MASSIVE DEPTH TST SAMPLE: 0+1.3M--- SURF,GT59,60,5W 0.05 TO 0.23M MVS GT61-63,61-63W	0.30 TO 0.70M MVS GT64-66,64-66W 0.80M MVS GT67,67W 1.0 TO 1.50M MVS GT68-71,68-71W 1.75 TO 2.40M MVS GT72-76,72-76W 0.03M DST,L ARCHIVE 1.32M --- L ARCHIVE
IN1-P	INUGSUIN	2631041	694080	694350	8204424	160	BENTHOS	716	Y	5	NO GEO CHEMICAL ANALYSIS CORE STORED UPRIGHT IN COOLER.	
											NO GEOTECHNICAL ANALYSIS	SECTIONS A-B, B-C, C-D, D-E, E-F.
IN3-G	INUGSUIN	2631623	694880	691725	8204325	557	LEHEIGH	127	N	1	PH= 7.78 +/- 0.11 (N=25) PE= 3.74 +/- 0.88 (N=25) PS= 2.64 +/- 0.40 (N=25)	

CORES

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STATION #	FIORD	TIME (ADT)	LAT	LONG	STICKER #	DEPTH (M)	EQUIP TYPE	LENTH	TWC	SEC	NOTES	NOTES
IN3-F	INUGSUIN	2631549	694880	691725	8204326	557	BENTHOS	598	Y	4		
IT1-G	ITERDILUNG	2601336	691850	691000	8204905	167	LEHEIGH	0	N	0	2 ATTEMPTS WERE MADE. BROKE THE BARREL BOTH TIMES. NO SAMPLE TAKEN.	
IT1-F	ITERDILUNG	2601300	691850	691000	8204906	167	BENTHOS	634	Y	5	NO GEOCHEMICAL ANALYSIS	
											NO GEOTECHNICAL ANALYSIS	5 SECTIONS A-F,SOME PARTS OF THE CORE WERE LOST,THE

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TI3-G	ITERDILUUG	2401915	691690	680220	8204401	417	LEHEIGH	241	N	2	TI3(T):0.00-1.20 M DEPTH TI3(B):1.20-2.40 M DEPTH MASSIVE GREENISH MUD WITH VARIABLE BIOTURBATION. DEPTH TSI TEST: SURF --- MICROFAUNA,L 0.02M --- GT40,60W 0.10M MVS GT41,42W 0.19M --- DST,L	0.20M MVS GT42,01W 0.40M MVS GT43 19W 0.60M MVS GT44,54W 1.00M MVS GT45,28W 1.40M MVS GT46,18W 1.65M MVS GT47,34W 1.75M MVS GT48,23W 2.00M MVS GT49,77W 2.30M MVS GT50,62W
MA2-G	MAKTAK	2571430	671970	643360	8204897	252	LEHEIGH	266	N	2	PH= 7.36 +/- .04 (N=35) PE= 4.29 +/- .48 (N=35) PS= 3.03 +/- .25 (N=35)	
MA2-P	MAKTAK	2571335	671970	643360	8204898	252	BENTHOS	976	Y	7		

40 FOOT BARREL,7 SECTIONS
AB/BC/CD/DE/EF/FG/GH.

CORES

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MA4-G	MAKTAK	2571840	671890	641700	8204996	333	LEHEIGH	295	N	2	NO GEOCHEMICAL ANALYSIS DOMINANTLY TAN MUD WITH BIOTURBATION AND REDUCTION STREAKS TO VARYING DEGREES DOWNCORE. DEPTH TST SAMPLES: DEPTH TST SAMPLES:	0.02M ---- GT20,31W 0.55M MVS GT21,16W 1.0 M MVS GT22,73W 1.5 M MVS GT23,11W 2.0 M MVS GT24,07W 2.6 M MVS GT25,74W MA4(T):0.0 -1.48 M DEPTH MA4(B):1.48 - 2.98M DEPTH
MA4-P	MAKTAK	2571825	671890	641700	8205030	333	BENTHOS	1006	Y	7		STORED UPRIGHT IN THE COOLER
MA5-G	MAKTAK	2580615	671750	640100	8204865	585	LEHEIGH	198	N.	2	NO GEOCHEMICAL ANALYSIS! DOMINANTLY MASSIVE TAN/ GREY MUD,SOME BIOTURBATIO N, DARK REDUCED STREAKS AND SOME LAMINATION. DEPTH TST SAMPLES: 0.02M ---,GT12,61W 0.10M MVS,GT13,55W 0.30M MVS,GT14,35W	0.39M MVS,GT15,79W 0.50M MVS,GT16,78W 0.70M MVS,GT17,72W 1.05M MVS,GT18,63W 1.50M MVS,GT19,50W 0.90M FVS ---- 0.20M FVS ---- 1.65M FVS ----

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GEOTECH(GT),LITHOLOGIC(L) AND WATER CONTENT(W). MINIATURE VANE SHEAR TESTS(MVS) AND FLICON VANE SHEAR CALIBRATIONS(FVS) WERE DONE
DOWN CORE. CORES WERE LABELLED:CRUISE,STATION,YELLOW TAG. INCREMENTS IN METERS. STYROFOAM PLUGS INSERTED WHERE SUBSAMPLES TAKEN.

STATION	FIORD	TIME (ADT)	LAT	LONG	STICKER	DEPTH (M)	EQUIP TYPE	LENTH	TWC	SEC	NOTES	NOTES
MA5A-G	MAKTAK	2500640	671680	635500	8204068	575	LEHEIGH	150	N	2	MA5A 0.0-1.45 M DEPTH TOP 0.1M ACCIDENTLY CUT- BAGGED FOR ARCHIVE. TOP 0.3M GRADED SANDS,0.3 -1.3M TAN SILTY MUDS, VARYING BIOTURBATION,1.3- 1.45 WELL LAMINATED SILTS DEPTH TST SAMPLES SURF --- FOR PB210	0.10M - FOR ARCHIVE 0.10M MVS GT32,52W 0.15M MVS GT33,06W 0.23M MVS GT34,29W 0.30M MVS GT35,13W 0.50M MVS GT36,75W 1.00M MVS GT37,68W 1.35M MVS GT38,65W 1.40M MVS GT39,51W
MC1-G	MCBETH	2611943	693290	694750	8204303	322	LEHEIGH	100	N	1	MC1:0.0-1.0 M DEPTH LOWEST 0.4 M BIOTURBATED UPPER 0.60 M VERY WELL DEFINED, SHARP-BASED MED- COARSE TO FINE SAND/SILTY MUD TOPS - 6 TURBIDITES LOGGED, ALL DARK SANDS. DEPTH TST SAMPLE 0.05 --- GT51,85W	0.15M MVS GT52,40W 0.30M MVS GT53,47W,L- TKD1 0.37M MVS GT54,76W 0.40M MVS GT55,39W 0.50M MVS GT56,46W 0.60M MVS GT57,00W,L- TKD2 0.00M MVS GT58,53W MC1 CC CORE CATCHER
MC1-F	MCBETH	2611930	693290	694750	8204302	322	BENTHOS	1100	Y	7		

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STATION	FJORD	TIME (ADT)	LAT	LONG	STICKER	DEPTH (M)	EQUIP TYPE	LENTH	TWC	SEC	NOTES	NOTES
MC7-GC	MCBETH	2621020	693750	681600	8204310	497	LEHEIGH	243	N	2	PH= 7.64 +/- 0.08 PE= 3.69 +/- 1.24 PS= 2.82 +/- 0.27	
MC7-P	MCBETH	2620945	693750	681600	8204311	497	BENTHOS	1121	Y	8	NO GEOCHEMICAL ANALYSIS. STORED UPRIGHT IN COOLER. 8 SECTIONS A-H	CORE WAS FRAGMENTED WITH LOTS OF WATER IN IT.
NP2-G	NPANGNIRTUNG	2580247	670950	642500	8204870	347	LEHEIGH	284	N	2	PH= 7.51 +/- .05 (N=38) PE= 3.75 +/- .85 (N=38) PS= 2.09 +/- .31 (N=38)	

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GEOTECHNICAL SYNOPOSIS:: LEHEIGH CORES WERE HALVED AND SPLIT ONBOARD. SUBSAMPLES BAGGED INCLUDE- CORE CATCHER(CC),SKOF STONES(DST), GEOTECH(GT),LITHOLOGIC(L) AND WATER CONTENT(W). MINIATURE VANE SHEAR TESTS(MVS) AND FLICON VANE SHEAR CALIBRATIONS(FVS) WERE DONE DOWN CORE. CORES WERE LABELLED;CRUISE,STATION,YELLOW TAG. INCREMENTS IN METERS. STYROFOAM PLUGS INSERTED WHERE SUBSAMPLES TAKEN.

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NP3-G	NPANGNIRTUNG	2580415	671160	640500	8204972	333	LEHEIGH	225	N	2	NP3(T):0.00-0.77 M DEPTH NP3(B):0.77-2.20 M DEPTH UPPER 1.9 M GREY TAN MUD WITH VARYING DEGREES OF BIOTURBATION AND DARK REDUCED STREAKS,LOWER PART OF CORE DARK,GRADED SANDY TO SILTY MUD,LITTLE BIOTURBATION,- 4 STACKED	TURBIDITES DEPTH TST SAMPLES: 0.02M - GT26,09W 0.10M MVS GT27,59W 0.46M MVS GT28,77W 1.00M MVS GT29,02W 1.50M MVS GT30,56W 2.25M MVS GT31,22W
SU1-G	SUNNESHINE	2542031	663702	615423	8204832	215	LEHEIGH	240	N	2	SU1(T):0.0-1.2 M DEPTH SU1(B):1.2-2.4 M DEPTH GREENISH BLACK MUD WITH OXIDIZED TAN ZONES NEAR BURROWS; BIOTURBATED AND MOTTLED THROUGHOUT. DEPTH TST SAMPLES: 0.02M ---,MFI,L(SHELLS)	L(SHELLS) IS A CORDINA 0.05M - ,GT1,71W 0.5 M MVS,GT2,40W 1.0 M MVS,GT3,45W 1.5 M MVS,GT4,41W 2.0 M MVS,GT5,12W SU1 CC CORE CATCHER GRAVITY CORE. UPPER 15 CM. DAMAGED.
SU5-G	SUNNESHINE	2550116	663330	614260	8204835	155	LEHEIGH	232	N	2	PH=7.804+/- .07 (N=32) PE=3.254+/- .73 (N=32) PS=2.534+/- .19 (N=32) ON THE FIRST TRY LOST THE WHOLE CORE BARREL,SECOND ATTEMPT WAS SUCCESSFULL NO GEOTECHNICAL ANALYSIS	DONE ON THIS CORE CORE CATCHER SUBSAMPLED. MICRO PALEO- DIATOM

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GEOCHEMICAL SYNOPOSIS:: GEOCHEMICAL PROCEDURES INCLUDED SPLITTING,DESCRIBING,LOGGING,ARCHIVING,SUBSAMPLING AND EVALUATING ELECTROMAGNETIC PARAMETERS INCLUDING PH,PE AND PS. LEHEIGH CORES EXAMINED ARE SU5,C04,MA2,NP2,TI3,MC7,IN3 AND CA2 RESPECTIVELY. CONCLUSION: STASTICAL EVALUATION,BASED ON 260 DISCRETE SUBSAMPLES AND 780 DATA POINTS INDICATES THE FOLL. OXIDATION>REDUCTION SEQUENCE. C04>MA2>TI3>NP2>IN3>MC7>SU5 RESPECTIVELY. END MEMBERS INCLUDE C04(OXIDIZED) WITH PH=7.42+/- 0.05, PE=4.79+/-0.30 AND PS=3.49+/-0.27 AS APPOSED TO SU5 (REDUCED) WITH PH=7.80+/-0.07,PE=3.25+/-0.73 AND PS=2.53+/-0.19 RESPECTIVELY.
GEOTECHNICAL SYNOPOSIS:: LEHEIGH CORES WERE HALVED AND SPLIT ONBOARD. SUBSAMPLES BAGGED INCLUDE- CORE CATCHER(CC),DROP STONES(DST), GEOTECH(GT),LITHOLOGIC(L) AND WATER CONTENT(W). MINIATURE VANE SHEAR TESTS(MVS) AND FLICON VANE SHEAR CALIBRATIONS(FVS) WERE DONE DOWN CORE. CORES WERE LABELLED;CRUISE,STATION,YELLOW TAG. INCREMENTS IN METERS. STYROFOAM PLUGS INSERTED WHERE SUBSAMPLES TAKEN.

STATION #	FIORD	TIME (ADT)	LAT	LONG	STICKER #	DEPTH (M)	EQUIP TYPE	LENTH	TWC	SEC	NOTES	NOTES
SU5-P	SUNNESHINE	2550846	663330	614260	8204827	146	BENTHOS	770	Y	5	NO GEOCHEMICAL ANALYSIS CORE STORED UPRIGHT IN COOLER	
												4 BARRELS (40 FT.) NOTE: WATER DEPTH CHANGED
SU7-G	SUNNESHINE	2550532	662930	613100	8204840	67	LEHEIGH	0	N	0	TWO ATTEMPTS WERE MADE BOTH UNSUCCESSFULL	
												2 ATTEMPTS MADE WITHOUT SUCCESS. OUTSIDE OF CORE
TI1A-P	TINGIN	2592007	690540	685400	8204873	302	BENTHOS	824	Y	6	NO GEOCHEMICAL ANALYSIS	
											NO GEOTECHNICAL ANALYSIS	6 SECTIONS STORED UPRIGHT IN COOLER.

CORES

FULL, IS A SUMMARY OF THE WORK DONE ON LEHEIGH CORES TAKEN ON 82-031 HUDSON. PISTON CORES WERE ALSO COLLECTED ON THIS CRUISE.
GEOCHEMICAL SYNOPOSIS!! GEOCHEMICAL PROCEDURES INCLUDED SPLITTING,DESCRIBING,LOGGING,ARCHIVING,SUBSAMPLING AND EVALUATING
ELECTROMAGNETIC PARAMETERS INCLUDING PH,PE AND PS. LEHEIGH CORES EXAMINED ARE SU5,C04,MA2,MP2,TI3,MC7,IN3 AND LA2 RESPECTIVELY.
CONCLUSION: STASTICAL EVALUATION,BASED ON 260 DISCRETE SUBSAMPLES AND /80 DATA POINTS INDICATES THE FULL, OXIDATION-REDUCTION
SEQUENCE, C04>MA2>TI3>MP2>IN3>MC7>SU5 RESPECTIVELY, END MEMBERS INCLUDE C04(OXIDIZED) WITH PH=7.421/- 0.05, PE 4.771/-0.30 AND
PS=3.491/-0.27 AS APPOSED TO SU5 (REDUCED) WITH PH=7.801/-0.07,PE=3.251/-0.73 AND PS=2.531/-0.19 RESPECTIVELY.
GEOTECHNICAL SYNOPOSIS!! LEHEIGH CORES WERE HALVED AND SPLIT ONBOARD. SUBSAMPLES BAGGED INCLUDE- CORE CATCHER(CC),DROP STONES(DST),
GEOTECH(GT),LITHOLOGIC(L) AND WATER CONTENT(W). MINIATURE VANE SHEAR TESTS(MVS) AND FLICON VANE SHEAR CALIBRATIONS(FVS) WERE DONE
DOWN CORE. CORES WERE LABELLED;CRUISE,STATION,YELLOW TAG. INCREMENTS IN METERS. STYROFOAM PLUGS INSERTED WHERE SUBSAMPLES TAKEN.

STATION	FIORD	TIME (ADT)	LAT	LONG	STICKER	DEPTH (M)	EQUIP TYPE	LENTH	TWC	SEC	NOTES	NOTES
TI3-G	TINGIN	2600145	691150	602350	8204879	487	LEHEIGH	253	N	2	PH= 7.51 +/- .06 (N=36) PE= 3.79 +/- 1.05 (N=36) PS= 2.77 +/- .23 (N=36)	
											NO GEOTECHNICAL ANALYSIS	
TI3-F	TINGIN	2600057	691150	602350	8204875	487	BENTHOS	1141	Y	8	NO GEOCHEMICAL ANALYSIS CORE STORED UPRIGHT IN COOLER.	
											NO GEOTECHNICAL ANALYSIS	CORE CATCHER AND BOTTOM SECTION STORED IN BUCKET

PHOTOGRAPHY

DURING THE CRUISE 82-031 ON C.S.S. HUDSON BOTTOM PHOTOGRAPHS WERE TAKEN AT MANY OF THE STATIONS USING 2 "UMEL" UNDERWATER CAMERAS MOUNTED VERTICALLY ON A TUBULAR STEEL FRAME EQUIPED WITH A PINGER AND A BOTTOM SENSING TRIP WEIGHT TO TRIGGER THE CAMERAS. USING 2 CAMERAS IN THIS MANNER ALLOWS THE PHOTOGRAPHS TO BE VIEWED IN STEREO. THE FILM USED WAS TRI-X 400 ASA B/W WITH 350 FRAMES/ROLL. 15 OR 20 PHOTOGRAPHS WERE TAKEN AT EACH CAMERA STATION. NO FILM PROCESSING WAS PERFORMED ON THE SHIP.

STATION #	FIORD	TIME (ADT)	LATITUDE	LONGITUDE	DEPTH (M)	STICKER #	# OF SHOTS	CAMERA SETTING	FILM #	STATION NOTES
CA1	CAMBRIDGE	2660700	711250	750000	196	8204468	15	F8.0 AT 4 FT	2	LOST COMPASS-BROKEN LINE REPLACED
CA5	CAMBRIDGE	2661820	713300	744870	475	8204496	15	F8 AT 4 FEET	2	PROBLEMS WITH PINGER, NOT SHUTTING OFF ON BOTTOM
CA6	CAMBRIDGE	2652138	713485	744000	640	8204462	15	F8.0 AT 4 FT	2	START 2150 END 2225
CL1	CLARK	2641640	704960	723700	192	8204441	19	F8.0 AT 4 FT	2	START: 2641656 END: 2641705
CL3	CLARK	2642018	705280	721570	256	8204445	15	F8.0 AT 4 FT	2	START: 2642030 END: 2642042
CL5	CLARK	2650056	710550	715300	683	8204449	15	F8.0 AT 4 FT	2	CAMERA REQUIRED SOME REPAIRS ON THIS STATION.
CO2	CORNATION	2561754	671410	643800	248	8204886	15	F8. INFINITY	1	FOCUSED FOR INFINITY INSTEAD OF 4 FT. FOR ROLL 1. 400 ASA TRI-X B/W.
CO4	CORNATION	2562332	671520	641820	356	8204857	15	F8. INFINITY	1	FOCUSED FOR INFINITY INSTEAD OF 4 FT. FOR ROLL 1. 400 ASA TRI-X B/W.
IN1	INUGSUIN	2630940	694080	694350	160	8204426	15	F8.0 AT 4 FT	2	START TIME-2630940 END TIME -2631013

PHOTOGRAPHY

DURING THE CRUISE 82-031 ON C.S.S. HUDSON BOTTOM PHOTOGRAPHS WERE TAKEN AT MANY OF THE STATIONS USING 2 "OMEL" UNDERWATER CAMERAS MOUNTED VERTICALLY ON A TUBULAR STEEL FRAME EQUIPED WITH A FINGER AND A BOTTOM SENSING TRIP WEIGHT TO TRIGGER THE CAMERAS. USING 2 CAMERAS IN THIS MANNER ALLOWS THE PHOTOGRAPHS TO BE VIEWED IN STEREO. THE FILM USED WAS TRI-X 400 ASA B/W WITH 250 FRAMES/ROLL. 15 OR 20 PHOTOGRAPHS WERE TAKEN AT EACH CAMERA STATION. NO FILM PROCESSING WAS PERFORMED ON THE SHIP.

STATION #	FIORD	TIME (ADT)	LATITUDE	LONGITUDE	DEPTH (M)	STICKER #	# OF SHOTS	CAMERA SETTING	FILM #	STATION NOTES
111	TIERRIIUNG	2601155	691050	691000	167	8204901	15	F8.0 AT 4 FT	2	START TIME 1145. STOP TIME 1203
113	TIERRIIUNG	2601742	691690	680220	417	8204402	15	F8.0 AT 4 FT	2	START TIME 1013 STOP TIME 1029
MA2	MARTAK	2571525	671970	643360	250	8204896	15	F8. INFINITY	1	FOCUSED FOR INFINITY INSTEAD OF 4 FT. FOR ROLL 1, 400 ASA TRI X B/W.
MA4	MARTAK	2571732	671890	641700	333	8204997	15	F8. INFINITY	1	FOCUSED FOR INFINITY INSTEAD OF 4 FT. FOR ROLL 1, 400 ASA TRI-X B/W.
MA5	MARTAK	2580513	671750	640100	580	8204863	15	F8. INFINITY	1	FOCUSED FOR INFINITY INSTEAD OF 4 FT. FOR ROLL 1, 400 ASA TRI-X B/W.
MC1	MCRETH	2612200	693290	694750	322	8204304	15	F8.0 AT 4 FT	2	START TIME 2200 STOP TIME 2219
MC7	MCRETH	2621125	693750	681600	497	8204308	15	F8.0 AT 4 FT	2	START 1105, STOP 1201. REQUIRED 2 LOWERINGS TO REPAIR FINGER.
MF3	MFANGNIKIIUNG	2580330	671160	646500	333	8204973	15	F8. INFINITY	1	FOCUSED FOR INFINITY INSTEAD OF 4 FT. FOR ROLL 1, 400 ASA TRI-X B/W.
SU1	SUNNESHINE	2542000	663702	615423	215	8204812	15	F8. INFINITY	1	FOCUSED FOR INFINITY INSTEAD OF 4 FT. FOR ROLL 1, 400 ASA TRI X B/W.

PHOTOGRAPHY

DURING THE CRUISE 82-031 ON C.S.S. HUDSON BOTTOM PHOTOGRAPHS WERE TAKEN AT MANY OF THE STATIONS USING 2 'UMEL' UNDERWATER CAMERAS MOUNTED VERTICALLY ON A TUBULAR STEEL FRAME EQUIPED WITH A FINGER AND A BOTTOM SENSING TRIP WEIGHT TO TRIGGER THE CAMERAS. USING 2 CAMERAS IN THIS MANNER ALLOWS THE PHOTOGRAPHS TO BE VIEWED IN STEREO. THE FILM USED WAS TRI-X 400 ASA B/W WITH 350 FRAMES/ROLL. 15 OR 20 PHOTOGRAPHS WERE TAKEN AT EACH CAMERA STATION. NO FILM PROCESSING WAS PERFORMED ON THE SHIP.

STATION #	FIORD	TIME (ADT)	LATITUDE	LONGITUDE	DEPTH (M)	STICKER #	# OF SHOTS	CAMERA SETTING	FILM #	STATION NOTES
SU5	SUNNESHINE	2550010	663330	614260	155	8204834	15	F8. INFINITY	1	FOCUSED FOR INFINITY INSTEAD OF 4 FT. FOR ROLL 1. 400 ASA TRI-X B/W.
SU6	SUNNESHINE	2550241	663070	613920	117	8204837	14	F8. INFINITY	1	FOCUSED FOR INFINITY INSTEAD OF 4 FT. FOR ROLL 1. 400 ASA TRI-X B/W.
SU7	SUNNESHINE	2550509	662930	613100	67	8204841	15	F8. INFINITY	1	FOCUSED FOR INFINITY INSTEAD OF 4 FT. FOR ROLL 1. 400 ASA TRI-X B/W.
TI1A	TINGIN	2591850	690540	685400	302	8205098	15	F8. AT 4 FT	2	START TIME 1847. STOP TIME 1903
TI3	TINGIN	2600251	691150	682350	487	8204877	15	F8.0 AT 4 FT	2	START TIME 0251 STOP TIME 0301

GEOPHYSICAL DATA

DURING HUDSON CRUISE 82-031 GEOPHYSICAL LINES WERE RUN FROM THE MOUTH TO THE HEAD OF EACH FIORD. EQUIPMENT DEPLOYED ON THESE LINES INCLUDED 1: 40 CU IN BOLT AIR GUN COMPLETE WITH 100FT NSRF EEL. 2: BIO SIDE SCAN. 3: AGC HUNTEC DTS REFLECTION SYSTEM. 4: MUN'S ACOU STIC PROFILING SYSTEM. 5: CONTINUOUS BATHYMETRY. NAVIGATION METHODS INCLUDED RADAR FIXING AND DEAD RECKONING PLOTTED AT A SCALE OF 1: 50:000.

LINE	FIORD	EQUIPMENT	START TIME	END TIME	START LAT	START LON	END LAT	END LOG	NOTES
CO-A61	CORONATION	AIR GUN	2560805	2561339	671505	633830	671451	644620	THIS LINE COVERS FIX POINTS 1-26 INCLUSIVE FIXES ARE EVERY NAUTICAL MILE.
CA-A61	CAMBRIDGE	AIR GUN	2661747	2670505	714860	733180	711275	750100	TAPE 415 FOOT 2070 1177 40 CU IN GUN AND NSRF EEL INFO TO FOLLOW ON HUDSON' S RETURN TO BIO
CA-HI	CAMBRIDGE	HUNTEC DTS	2661747	2670505	714860	733180	711275	750100	TAPE NOT AVAILABLE YET
CA-SS1	CAMBRIDGE	SIDE SCAN	2661747	2670505	714860	733180	711275	750100	FIXES EVERY NAUTICAL MILE INFO WILL BE AVAILABLE ON HUDSON'S RETURN TO BIO
CL-A61	CLARK	AIR GUN	2640950	2641413	710560	715350	704960	724080	TAPE 4 FOOTAGE 0502-2065 40 CU IN GUN AND NSRF EEL FIXES EVERY NAUTICAL MILE FIX 1-20
CL-HI	CLARK	HUNTEC DTS	2640950	2641413	710560	715350	704960	724080	THIS LINE COVERS FIXES 1-27 INCLUSIVE FIXES EVERY NAUTICAL MI.

GEOPHYSICAL DATA

DURING HUDSON CRUISE 82-031 GEOPHYSICAL LINES WERE RUN FROM THE MOUTH TO THE HEAD OF EACH FIORD. EQUIPMENT DEPLOYED ON THESE LINES INCLUDED 1: 40 CU IN BOLT AIR GUN COMPLETE WITH 100FT NSRF EEL. 2: BIO SIDE SCAN. 3: AGC HUNTEC DTS REFLECTION SYSTEM. 4: MUN'S ACOUSTIC PROFILING SYSTEM. 5: CONTINUOUS BATHYMETRY. NAVIGATION METHODS INCLUDED RADAR FIXING AND DEAD REKONING PLOTTED AT A SCALE OF 1: 50:000.

LINE	FIORD	EQUIPMENT	START TIME	END TIME	START LAT	START LON	END LAT	END LOG	NOTES
CL-SS1	CLARK	SIDE SCAN	2641028	2641413	0	0	704960	724080	THIS LINE COVERS FIX POINTS 1-27 SS DEPLOYED AT FIX #4.
CO-AG1	CORONATION	AIRGUN	2560730	2561339	671505	633830	671251	644620	#1,0600-2357 FT. 40 CU IN GUN.NSRF EEL FIXES 1-26. EVERY NAUTICAL MILE.
CO-HI	CORONATION	HUNTEC DEEP TOW	2560805	2561339	671505	633830	671251	644620	#1,2&3;3 ENDS AT 1999 FT. FIRST FIX IS (FIX A) FIX # 1 LAT 671620 LONG 634830 DTS HAVING PROBLEMS
CO-SS1	CORONATION	SIDE SCAN	2560929	2561339	0	0	671251	644620	NOT AVAILABLE YET. SS DEPLOYED AT FIX # 3. 1500M RANGE EACH SWATH. CH #2 (STB) SS TAPE RECORDER NOT WORKING.
IN-AG1	INUGSUIN	AIR GUN	2630026	2630723	700750	682890	694090	695720	TAPE 3+4 FOOT 2644-0840 FIXES EVERY 2 NAUTICAL MI 40 CU IN GUN AND NSRF EEL 0105 PROBLEMS WITH GUN 0201 AIR GUN WORKING
IN-HI	INUGSUIN	HUNTEC DTS	2630026	2630723	700750	682890	694090	695720	TAPE NOT AVAILBLE YET FIXES EVERY 2 NAUTICAL MI (FIX 25-26-27 1-20)

GEOPHYSICAL DATA

DURING HUDSON CRUISE 82-031 GEOPHYSICAL LINES WERE RUN FROM THE MOUTH TO THE HEAD OF EACH FIORD. EQUIPMENT DEPLOYED ON THESE LINES INCLUDED 1: 40 CU IN BOLT AIR GUN COMPLETE WITH 100FT NSRF EEL. 2: EIC SIDE SCAN. 3: AGC HUNTEC DTS REFLECTION SYSTEM. 4: HUN'S ACOUSTIC PROFILING SYSTEM. 5: CONTINUOUS BATHYMETRY. NAVIGATION METHODS INCLUDED KADAR FIXING AND DEAD RECKONING PLOTTED AT A SCALE OF 1: 50:000.

LINE	FIORD	EQUIPMENT	START TIME	END TIME	START LAT	START LON	END LAT	END LOG	NOTES
IN-SSI	INUGSUIN	SIDE SCAN	2630026	2630723	700750	682890	694090	695720	TAPE NOT AVAILABLE YET 0455 SIDE SCAN RETRIEVED
IT-AGI	TIERRTIUNG	AIR GUN	2600330	2600916	691160	681800	691960	690600	TAPE 213 2366 0276 FIXES EVERY NAUTICAL MILE 40 CU IN GUN NSRF EEI FIXES 1-34
IT-HI	TIERRTIUNG	HUNTEC DTS	2600338	2600916	691160	681800	691960	690600	TAPE NOT AVAILABLE YET BAD RECORDS DUE TO SPEED AND HARD BOTTOM SPEED REDUCED AT FIX 7
IT-SSI	TIERRTIUNG	SIDE SCAN	2600338	2600916	691160	681800	691960	690600	TAPE NOT AVAILABLE YET SIDE SCAN RECORDS IMPROVE AROUND 0500HR
MA-AGI	MARTAR	AIRGUN	2570657	2571000	671765	640320	672080	644302	TAPE NUMBER ONE TAPE FOOTAGE 2420-3411 LINE STARTED ON FIXES 7,8 ,9 FROM CO. FIORD THEN FOLL. FIX 27-39
MA-HI	MARTAR	HUNTEC DTS	2570657	2571005	671765	640320	672080	644320	2000 FT ON 13 TO 1000 14. SAME LINE AS AIR GUN FIX 8-39.

GEOPHYSICAL DATA

DURING HUDSON CRUISE 82-031 GEOPHYSICAL LINES WERE RUN FROM THE MOUTH TO THE HEAD OF EACH FIORD. EQUIPMENT DEPLOYED ON THESE LINES INCLUDED 1: 40 CU IN BOLT AIR GUN COMPLETE WITH 100FT NSRF EEL. 2: BIO SIDE SCAN. 3: AGC HUNTEC DTS REFLECTION SYSTEM. 4: HUN'S ACOUSTIC PROFILING SYSTEM. 5: CONTINUOUS BATHYMETRY. NAVIGATION METHODS INCLUDED RADAR FIXING AND DEAD RECKONING PLOTTED AT A SCALE OF 1:50:000.

LINE	FIORD	EQUIPMENT	START TIME	END TIME	START LAT	START LON	END LAT	END LOG	NOTES
MA-SS1	MAKTAK	SIDESCAN	2570657	2571000	671765	640320	672080	644320	TAPE FOOTAGE UNAVAILABLE
MC-AG1	MCBETH	AIR GUN	2610922	2611600	693240	681370	693172	695900	TAPE 3 FOOTAGE 0374-2306 40 CU IN GUN, NSRF EEL GALE FORCE WINDS FIXES 1-36
MC-H1	MCBETH	HUNTEC DTS	2610922	2611600	693240	681370	693172	695900	TAPE NOT AVAILABLE YET FIXES 1-36
MC-SS1	MCBETH	SIDESCAN	2610922	2611600	693240	681378	693172	695900	TAPE NOT AVAILABLE YET 1253 RETRIEVED DEEP SS 1330 DEPLOYED SHALLOW SS
NP-AG1	N.PANGNIRTUNG	AIR GUN	2572022	2580010	671555	635310	670425	644000	TAPE 2 FOOTAGE 0000-1122 FIXES EVERY NAUTICAL MILE FIXES 27-51 40 CU IN GUN & 100FT NSRF SHORT EEL
NP-H1	N.PANGNIRTUNG	HUNTEC DTS	2572022	2580010	671555	635310	670425	644000	NOT AVAILABLE SAME LINE AS AIR GUN

GEOPHYSICAL DATA

DURING HUDSON CRUISE 82-031 GEOPHYSICAL LINES WERE RUN FROM THE MOUTH TO THE HEAD OF EACH FIORD. EQUIPMENT DEPLOYED ON THESE LINES INCLUDED 1: 40 CU IN BOLT AIR GUN COMPLETE WITH 100FT NSRF EEL. 2: BIO SIDE SCAN. 3: AGC HUNTEC DTS REFLECTION SYSTEM. 4: HUN'S ACOU STIC PROFILING SYSTEM. 5: CONTINUOUS BATHYMETRY. NAVIGATION METHODS INCLUDED RADAR FIXING AND DEAD RECKONING PLOTTED AT A SCALE OF 1: 50:000.

LINE	FIORD	EQUIPMENT	START TIME	END TIME	START LAT	START LON	END LAT	END LOG	NOTES
NF-SS1	N.FANGNERTUNG	SIDE SCAN	2572022	2580010	671555	635310	670425	644000	NOT AVAILABLE YET SAME LINE AS AIR GUN
SU-AG1	SUNNESHINE	AIR GUN	2541420	2541644	662890	611900	663420	614370	1 TAPE #1 TURNED ON AT TIME 1450 AT 0000 FT AND ENDED AT 0545 FT. 40 CU IN. GUN, NSRF EEL.
SU-H1	SUNNESHINE	HUNTEC DEEP TOW	2541443	2541645	662890	611900	663420	614370	11,START:0000FT,END:2339. RECORDS SATISFACTORY NO SIDE SCAN RUN IN THIS FJORD. FIXES 4-12 INCLUSIVE.
TI-AG1	TINGIN	AIRGUN	2591227	2591624	690655	675690	690025	685740	#2 @ 1169FT TO #2 AT 2303 FEET.FIXES EVERY NAUTICAL MI.FIXES 1-29.40 CU IN AIRGUN,100FT NSRF SHORT E EEL.HYDROPHONE CUT BY SS.
TI-H1	TINGIN	HUNTEC DTS	2591227	2591624	690655	675690	690025	685740	NOT AVAILABLE YET SOME INTERFERENCE FROM AIRGUN.HUN. TAPE RECORDER MALFUNCTIONING FROM 1440 TO 1539HRS.
TI-SS1	TINGIN	SIDE SCAN	2591227	2591624	690655	675690	690025	685740	NOT AVAILABLE YET STARTED GETTING RECORD AT 1539 ADT (FIX 23) CHANGED RANGE FROM 1500M TO 1000M KEN AZZBERY IS A SWINDLER

BACTERIOLOGY

DURING HUDSON CRUISE 82-031 SAMPLES WERE COLLECTED TO MEASURE MICROBIAL ACTIVITY AND BIOMASS ACTIVITIES AND PRODUCTIVITIES OF COASTA
L WATERS OF BAFFIN ISLAND. EMPHASIS WAS PLACED UPON THESE PARAMETERS AS INFLUENCED BY THE MIXING OF FRESH RIVER WATER AND SEA WATER
SURFACE WATER SAMPLES WERE COLLECTED IN EVERY FIORD.

STATION NUMBER	FIORD NAME	YELLO STICKER NUMBER	HETEROTROPHIC PRODUCTIVITY	SUBSAMPLES BACTERIAL COUNT	CHLOROPHYLL "A" SAMPLE	LIGHT PRODUCTIVITY	TOTAL ORGANIC CARBON
CO-3	CORONATION	8204846	YES	YES	YES	NO	NO
CL-1	CLARK	8204501	YES	YES	YES	NO	NO
CL-2	CLARK	8204502	YES	YES	YES	NO	NO
CL-3	CLARK	8204503	YES	YES	YES	NO	NO
CL-4	CLARK	8204504	YES	YES	YES	NO	NO
CL-5	CLARK	8204505	YES	YES	YES	NO	NO
CL-6	CLARK	8204506	YES	YES	YES	NO	NO
CL-7	CLARK	8204507	YES	YES	YES	NO	NO
CL-8	CLARK	8204508	YES	YES	YES	NO	NO
CO-01	CORONATION	8204844	YES	YES	YES	YES	YES
CO-2	CORONATION	8204845	YES	YES	YES	NO	NO
CO-4	CORONATION	8204847	YES	YES	YES	NO	NO
CO-5	CORONATION	8204848	YES	YES	YES	YES	YES
IN-1	INUGSUIN	8204929	YES	YES	YES	YES	YES

BACTERIOLOGY

DURING HUDSON CRUISE 82-031 SAMPLES WERE COLLECTED TO MEASURE MICROBIAL ACTIVITY AND BIOMASS ACTIVITIES AND PRODUCTIVITIES OF COASTA L WATERS OF BAFFIN ISLAND. EMPHASIS WAS PLACED UPON THESE PARAMETERS AS INFLUENCED BY THE MIXING OF FRESH RIVER WATER AND SEA WATER SURFACE WATER SAMPLES WERE COLLECTED IN EVERY FIORD.

STATION NUMBER	FIORD NAME	YELLO STICKER NUMBER	HETEROTROPHIC PRODUCTIVITY	SUBSAMPLES BACTERIAL COUNT	CHLOROPHYLL "A" SAMPLE	LIGHT PRODUCTIVITY	TOTAL ORGANIC CARBON
IN-2	INUGSUIN	8204930	YES	YES	YES	NO	NO
IN-3	INUGSUIN	8204931	YES	YES	YES	NO	NO
IN-4	INUGSUIN	8204943	YES	YES	YES	YES	YES
IN-5	INUGSUIN	8204944	YES	YES	YES	NO	NO
IN-6	INUGSUIN	8204920	YES	YES	YES	NO	NO
IN-7	INUGSUIN	8204927	YES	YES	YES	YES	YES
IN-8	INUGSUIN	8204926	YES	YES	YES	YES	YES
IT-1	ITERKILUNG	8204937	YES	YES	YES	YES	YES
IT-2	ITERKILUNG	8204938	YES	YES	YES	YES	YES
IT-3	ITERKILUNG	8204939	YES	YES	YES	YES	YES
IT-4	ITERKILUNG	8204940	YES	YES	YES	YES	YES
MA-1	MAKTAK	8204849	YES	YES	YES	YES	YES
MA-2	MAKTAK	8204850	YES	YES	YES	NO	NO
MA-4	MAKTAK	8204851	YES	YES	YES	NO	NO

BACTERIOLOGY

DURING HUDSON CRUISE 82-031 SAMPLES WERE COLLECTED TO MEASURE MICROBIAL ACTIVITY AND BIOMASS ACTIVITIES AND PRODUCTIVITIES OF COASTAL WATERS OF BAFFIN ISLAND. EMPHASIS WAS PLACED UPON THESE PARAMETERS AS INFLUENCED BY THE MIXING OF FRESH RIVER WATER AND SEA WATER SURFACE WATER SAMPLES WERE COLLECTED IN EVERY FIORD.

STATION NUMBER	FIORD NAME	YELLO STICKER NUMBER	HETEROTROPHIC PRODUCTIVITY	SUBSAMPLES BACTERIAL COUNT	CHLOROPHYLL "A" SAMPLE	LIGHT PRODUCTIVITY	TOTAL ORGANIC CARBON
MA-5	MAKTAK	8204852	YES	YES	YES	YES	YES
MA-6A	MAKTAK	8204942	YES	YES	YES	YES	YES
MC-1	MCBETH	8204941	YES	YES	YES	YES	YES
MC-11	MCBETH	8204921	YES	YES	YES	YES	YES
MC-3	MCBETH	8204923	YES	YES	YES	YES	YES
MC-4	MCBETH	8204924	YES	YES	YES	YES	YES
MC-5	MCBETH	8204925	YES	YES	YES	YES	YES
MC-9	MCBETH	8204022	YES	YES	YES	YES	YES
SU-1	SUNNESHINE	8204831	YES	YES	YES	YES	YES
SU-5	SUNNESHINE	8204829	YES	YES	YES	NO	NO
SU-6	SUNNESHINE	8204838	YES	YES	YES	NO	NO
SU-8	SUNNESHINE	8204839	YES	YES	YES	NO	NO
TI-1	TINGIN	8204934	YES	YES	YES	YES	YES
TI-2	TINGIN	8204935	YES	YES	YES	YES	YES

BACTERIOLOGY

DURING HUDSON CRUISE 82-031 SAMPLES WERE COLLECTED TO MEASURE MICROBIAL ACTIVITY AND BIOMASS ACTIVITIES AND PRODUCTIVITIES OF COASTAL WATERS OF BAFFIN ISLAND. EMPHASIS WAS PLACED UPON THESE PARAMETERS AS INFLUENCED BY THE MIXING OF FRESH RIVER WATER AND SEA WATER. SURFACE WATER SAMPLES WERE COLLECTED IN EVERY FIORD.

STATION NUMBER	FIORD NAME	YELLO STICKER NUMBER	HETEROTROPHIC PRODUCTIVITY	SUBSAMPLES BACTERIAL COUNT	CHLOROPHYLL "A" SAMPLE	LIGHT PRODUCTIVITY	TOTAL ORGANIC CARBON
TI-3	TINGIN	8204936	YES	YES	YES	YES	YES
TI-4	TINGIN	8204933	YES	YES	YES	YES	YES
TI-5	TINGIN	8204932	YES	YES	YES	YES	YES

DELTA WORK

STATION	FIORD	JUL	SAMPLE	STICKER
NOTE 1			NOTE 2	
NOTE 3				
CL1D	CLARK	264	SEDIMENT	8204327
MEDIUM GRAINED SAND WITH HEAVIES. (DELTA FRONT)			HIGH CONCENTRATION OF	
CL2D	CLARK	264	SEDIMENT	8204328
GRAVELLY SAND, (DELTA FRONT)			SCRAPED FROM FROZEN SEDIMENT	
CL3D-A	CLARK	264	SEDIMENT	8204329
COLLECTED NEAR DELTA FRONT. SAND.			SURFACE SAMPLE OF MEDIUM	
CL3D-B	CLARK	264	SEDIMENT	8204329
COLLECTED NEAR DELTA FRONT. SAND WITH HEAVIES.			UNDERLYING CL3D-A. MEDIUM	
CL4D	CLARK	264	SEDIMENT	8204330
GRAVELLY SAMPLE, AEOLIAN LAG				
CL5D	CLARK	264	SEDIMENT	8204331
IRON STAINED MEDIUM TO FINE IRON PAN.			GRAINED SAND, COLLECTED FROM	
CL6D	CLARK	264	SEDIMENT	8204332
GLACIER FLOUR AND SAND			COLLECTED FROM GLACIER FRONT	
CL7D	CLARK	264	WATER	8204333
WATER TAKEN AT EDGE OF			MORAINE.	
CL8D	CLARK	264	WATER	8204334
WATER TAKEN CLOSER TO			GLACIER	

DELTA WORK

STATION NOTE 1 NOTE 3	FLOOD	JHH	SAMPLE NOTE 2	STICKER
C010D-A	CORNATION	256	SEDIMENT	8204989
C010D-B	CORNATION	256	WATER	8204990
C011D-A	CORNATION	256	SEDIMENT	8204991
C011D-B	CORNATION	256	WATER	8204992
C012D-A	CORNATION	256	WATER	8204993
C012D-B	CORNATION	256	ICE	8204994
C013D	CORNATION	256	LICHEN	8204995
C01D-A	CORNATION	256	SEDIMENT	8204977
C01D-B	CORNATION	256	WATER	8204978
C02D	CORNATION	256	WATER	8204979

DELTA WORK

STATION NOTE 1 NOTE 3	FIORD	JUL	SAMPLE NOTE 2	STICKER
C03D	CORNATION	256	ICE	8204980
C04D-A	CORNATION	256	WATER	8204981
C04D-B	CORNATION	256	WATER	8204982
C04D-C	CORNATION	256	SEDIMENT	8204983
C05D	CORNATION	256	WATER	8204984
C06D	CORNATION	256	WATER	8204985
C07D	CORNATION	256	WATER	8204986
C08D	CORNATION	256	WATER	8204987
C09D	CORNATION	256	SEDIMENT	8204988
I11D	ITERDILUUG	260	SEDIMENT	8204920

PHOTO TAKEN OF THE STATION, SAND WAS FROZEN.

DELTA WORK

STATION NOTE 1 NOTE 3	FJORD	NR.	SAMPLE NOTE 2	STICKER
EE2D	EIERBEELDING	260	WATER	B203494
SAMPLED FROM THE MOUTH OF TH 0/00.			E MAIN CHANNEL. SALINITY 25	
EE3D	EIERBEELDING	260	WATER	B203495
SAMPLED AT WHALER MOORING, N Y 25 0/00.			ORTH SIDE OF DELTA. SALINIT	
EE4D	EIERBEELDING	260	SEDIMENT	B203496
WIND BLOWN SEDIMENT COLLECTE . ABOVE THE GROUND.			D DIRECTLY FROM THE AIR 4 IN	
EE5D	EIERBEELDING	260	SEDIMENT	B203497
WIND BLOWN SAND COLLECTED OV			ER BEDROCK.	
EE6D	EIERBEELDING	260	SEDIMENT	B203498
SHEET SAND, MED TO COURSE GR			AINED - POSSIBLE LAG.	
EE7D	EIERBEELDING	260	SEDIMENT	B203499
TAKEN ALONG BANK OF TRIBUTAR			Y.	
EE8D	EIERBEELDING	260	SEDIMENT	B204400
PEGMATITIC ROCK GIVEN TO KAT			HY ELLIS (LICHEN).	
MC1D	MCMEEH	261	SEDIMENT	B204313
SANDY GRAVEL				
MC2D-A	MCMEEH	261	SEDIMENT	B204314
MC2D-B	MCMEEH	261	SEDIMENT	B204314

DELTA WORK

STATION NOTE 1 NOTE 3	FJORD	JUL	SAMPLE NOTE 2	STICKER
MC3D	MCBETH	261	SEDIMENT	8204315
MC4D-A	MCBETH	261	SEDIMENT	8204316
MC4D-B	MCBETH	261	SEDIMENT	8204316
MC5D	MCBETH	261	SEDIMENT	8204317
MC6D	MCBETH	261	SEDIMENT	8204318
MC7D	MCBETH	261	SEDIMENT	8204320
TI-D-1A	TINGIN	259	SEDIMENT	8204912
TI-D-1B	TINGIN	259	SEDIMENT	8204913
TI-D-1C	TINGIN	259	WATER	8204911

SUBSAMPLES TO DAN STROH FOR BACTERIA. SALINITY 4 0/00.

TI-D-1D	TINGIN	259	WATER	8204914

SUBSAMPLES TO STROH-BACTERIA . SALINITY 25 0/00.

DELTA WORK

STATION NOTE 1 NOTE 3	FIORD	HR	SAMPLE NOTE 2	STICKER
TI-D-2	TINGIN	259	SEDIMENT	8204915
TI-D-3	TINGIN	259	WATER	8204916
ONLY NUCLEOPORE FILTERING DO			NE.	
TI-D-4	TINGIN	259	SEDIMENT	8204917
TI-D-5	TINGIN	259	WATER	8204918
SUBSAMPLES FOR STROH BACTERI			A. SALINITY 15 0/00.	
TI-D-6	TINGIN	259	DESCRIPT	8204919
GENERALLY A GRAVELLY BEACH W			ITH BRAIDED TIDAL CHANNELS,B	
ARS ETC.				

SCIENTIFIC LAUNCH: SUMMARY OF OPERATIONS

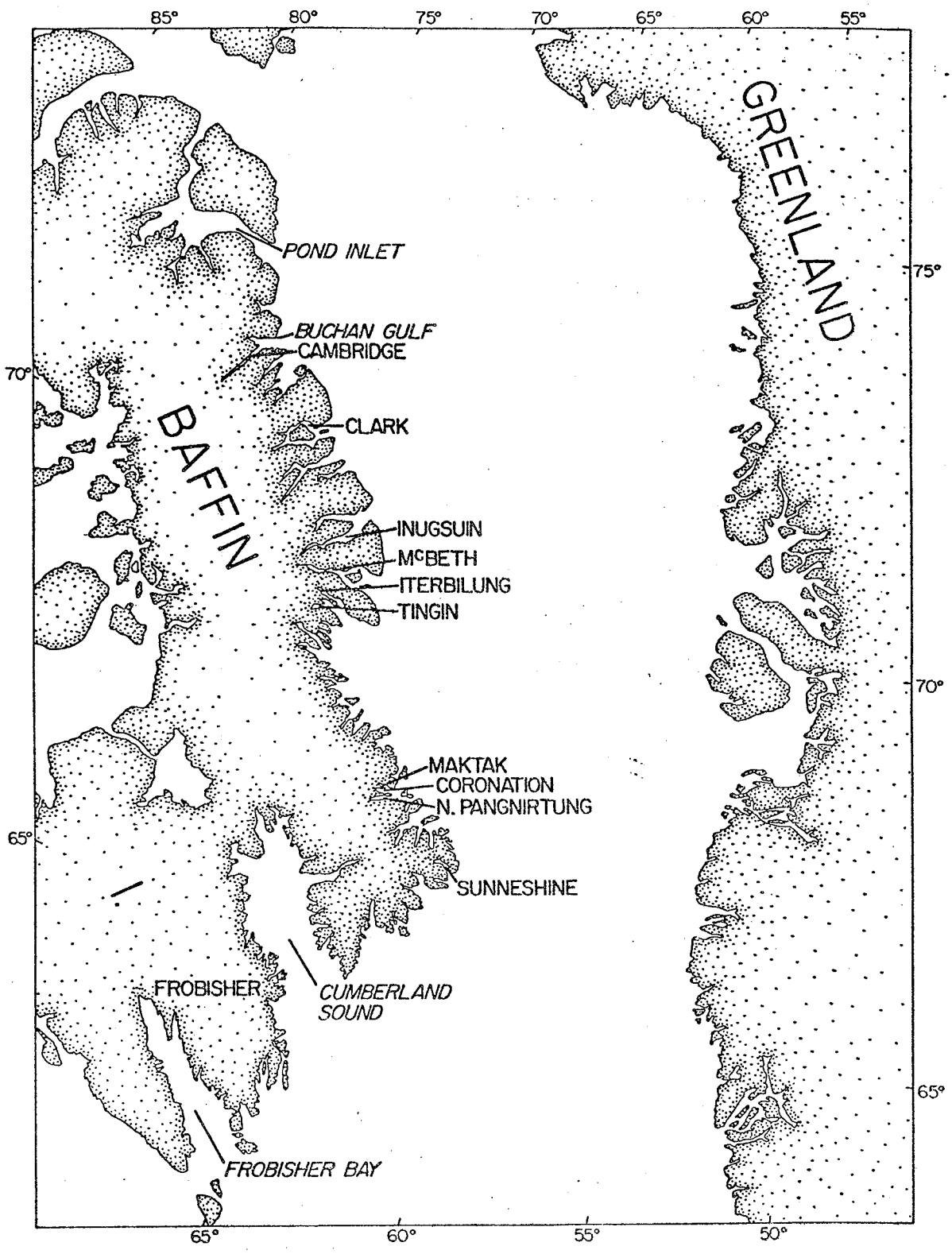
DURING THE CRUISE 82-031 ON C.S.S. HUDSON, LAUNCH WORK WAS CARRIED OUT NEAR THE DELTA AREA OF SEVERAL FIORDS. LAUNCH INSTRUMENTATION INCLUDED A KLEIN 402 SIDE-SCAN, A ROSS LABORATORIES 192 KHZ ACOUSTIC SOUNDER, A GUILDLINE PORTABLE CTD AND AN RTT 1000 SHALLOW SEISMIC SYSTEM. THE RTT 1000 DID NOT PERFORM SATISFACTORILY. THE REMAINING SYSTEMS OPERATED NORMALLY. CTD AND SIDE-SCAN DATA WERE RECORDED ON MAG TAPE. WATER SAMPLES WERE TAKEN AT SEVERAL LOCATIONS. POSITIONS WERE DETERMINED WHEN POSSIBLE BY RADAR OR SEXTANT.

FIORD	DAY	RECORDER TYPE	TAPE #	FOOTAGE	LINE #	FIXES	CTD STATION	CTD #	TIME (ADT)	DEPTH (M)	LATITUDE	LONGITUDE	STATION NOTES
CLARK	264	TEAC	7	265-528	1-2	1-13	CL1S	25	2641618	31	0	0	ACOUSTIC PROFILING AND SIDE-SCAN INFORMATION COLLECTED.
		RACAL	3	0-517	1-2	1-13	CL2S	26	2641626	50	0	0	
		TEAC	8	000-180	3	14-20	CL3S	27	2641639	76	0	0	
		RACAL	3	550-815	3	14-20	CL4S	28	2641713	115	0	0	
			0					0	0	0	0	0	
			0					0	0	0	0	0	
			0					0	0	0	0	0	
			0					0	0	0	0	0	
CORNATION	256	TEAC	1		1	1-10	C01S	1	2561340	60	0	0	ACOUSTIC PROFILING AND SIDE-SCAN INFORMATION COLLECTED.
		RACAL	1		1	1-10	C02S	2	2561353	72	0	0	
		TEAC	2		2	11-17	C03S	3	2561412	94	0	0	
		RACAL	1		2	11-17	C04S	4	2561600	30	0	0	
		RACAL	1		3	18-21		0	0	0	0	0	
			0					0	0	0	0	0	
			0					0	0	0	0	0	
			0					0	0	0	0	0	
								0	0	0	0	0	
INUGSUIN	263	TEAC	6	402-525	1	1-7	IN1S	17	1127	32	0	0	ACOUSTIC PROFILING AND SIDE-SCAN INFORMATION COLLECTED.
		RACAL	2	3225-3484	1	1-7	IN2S	18	1137	57	0	0	
		TEAC	7	000-114	2	8-10	IN3S	19	1148	101	0	0	
		TEAC	7	138-250	3	11-15	IN4SA	20	1209	55	0	0	
			0				IN4SB	21	1215	47	0	0	
			0				IN5S	22	1409	140	693850	694550	
			0				IN6S	23	1544	380	694630	693300	
			0				IN7S	24	1649	560	694880	693300	
								0	0	0	0	0	
TIERBILUNG	260	TEAC	5	000-175	1	1-3	IT1S	11	1211	30	0	0	ACOUSTIC PROFILING AND SIDE-SCAN INFORMATION COLLECTED.
		RACAL	2	2100-2335	1	1-3	IT2S	12	1223	55	0	0	
		TEAC	5	187-348	2	4-7	IT3S	13	1240	106	0	0	
		RACAL	2	2370-2634	2	4-7		0	0	0	0	0	
		TEAC	5	368-494	3	8-11		0	0	0	0	0	
		RACAL	2	2940-3190	3	8-11		0	0	0	0	0	
		TEAC	0					0	0	0	0	0	
		RACAL	0					0	0	0	0	0	
								0	0	0	0	0	

SCIENTIFIC LAUNCH: SUMMARY OF OPERATIONS

DURING THE CRUISE 82-031 ON C.S.S. HUDSON, LAUNCH WORK WAS CARRIED OUT NEAR THE DELTA AREA OF SEVERAL FIORDS. LAUNCH INSTRUMENTATION INCLUDED A KELVIN 402 SIDE-SCAN, A ROSS LABORATORIES 192 KHZ ACOUSTIC SOUNDER, A GUILDLINE PORTABLE CTD AND AN RTI 1000 SHALLOW SEISMIC SYSTEM. THE RTI 1000 DID NOT PERFORM SATISFACTORILY. THE REMAINING SYSTEMS OPERATED NORMALLY. CTD AND SIDE SCAN DATA WERE RECORDED ON MAG TAPE. WATER SAMPLES WERE TAKEN AT SEVERAL LOCATIONS. POSITIONS WERE DETERMINED WHEN POSSIBLE BY KAPOK OR SEXTANT.

FIORD	DAY	RECORDER TYPE	TAPE #	FOOTAGE	LINE #	FIXES	CTD STATION	CTD #	TIME (ADT)	DEPTH (M)	LATITUDE	LONGITUDE	STATION NOTES
MAKTAK	257	TEAC	3		1	1-10	MA1S	5	1309	27	0	0	ACOUSTIC PROFILING AND
		TEAC	3		2	11-20	MA2S	6	1319	57	0	0	SIDE SCAN INFORMATION
		TEAC	4		3	21-26	MA3S	7	1334	91	0	0	COLLECTED.
			0					0	0	0	0	0	
			0					0	0	0	0	0	
			0					0	0	0	0	0	
			0					0	0	0	0	0	
			0					0	0	0	0	0	
MCBETH	241	TEAC	6	000-128	1	1-10	MC1S	14	1831	25	0	0	ACOUSTIC PROFILING AND
		TEAC	6	143-384	2	11-20	MC2S	15	1837	50	0	0	SIDE-SCAN INFORMATION
			0				MC3S	16	1853	105	0	0	COLLECTED.
			0					0	0	0	0	0	
			0					0	0	0	0	0	
			0					0	0	0	0	0	
			0					0	0	0	0	0	
			0					0	0	0	0	0	
TIMOTH	259	TEAC	4	376-442	1	1-3	TI1S	8	1827	35	0	0	ACOUSTIC PROFILING AND
		RACAL	2	1465-1623	1	1-3	TI2S	9	1840	52	0	0	SIDE-SCAN INFORMATION
		TEAC	4	452-550	2	4-11	TI3S	10	1856	95	0	0	COLLECTED. SIDE-SCAN LINE
		RACAL	0					0	0	0	0	0	WAS NOT TAPED.
		TEAC	0					0	0	0	0	0	
		RACAL	0					0	0	0	0	0	
		TEAC	0					0	0	0	0	0	
		RACAL	0					0	0	0	0	0	


85°
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GREENLAND
BAFFIN
POND INLET
BUCHAN GULF
CAMBRIDGE
CLARK
INUGSUIN
McBETH
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MAKTAK
CORONATION
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SUNNESHINE
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