

70-0948

00511

Lamont Geological Observatory  
Core Descriptions

VEMA Cruise No. 16

~~Proprietary~~

~~Restrictions~~

on use

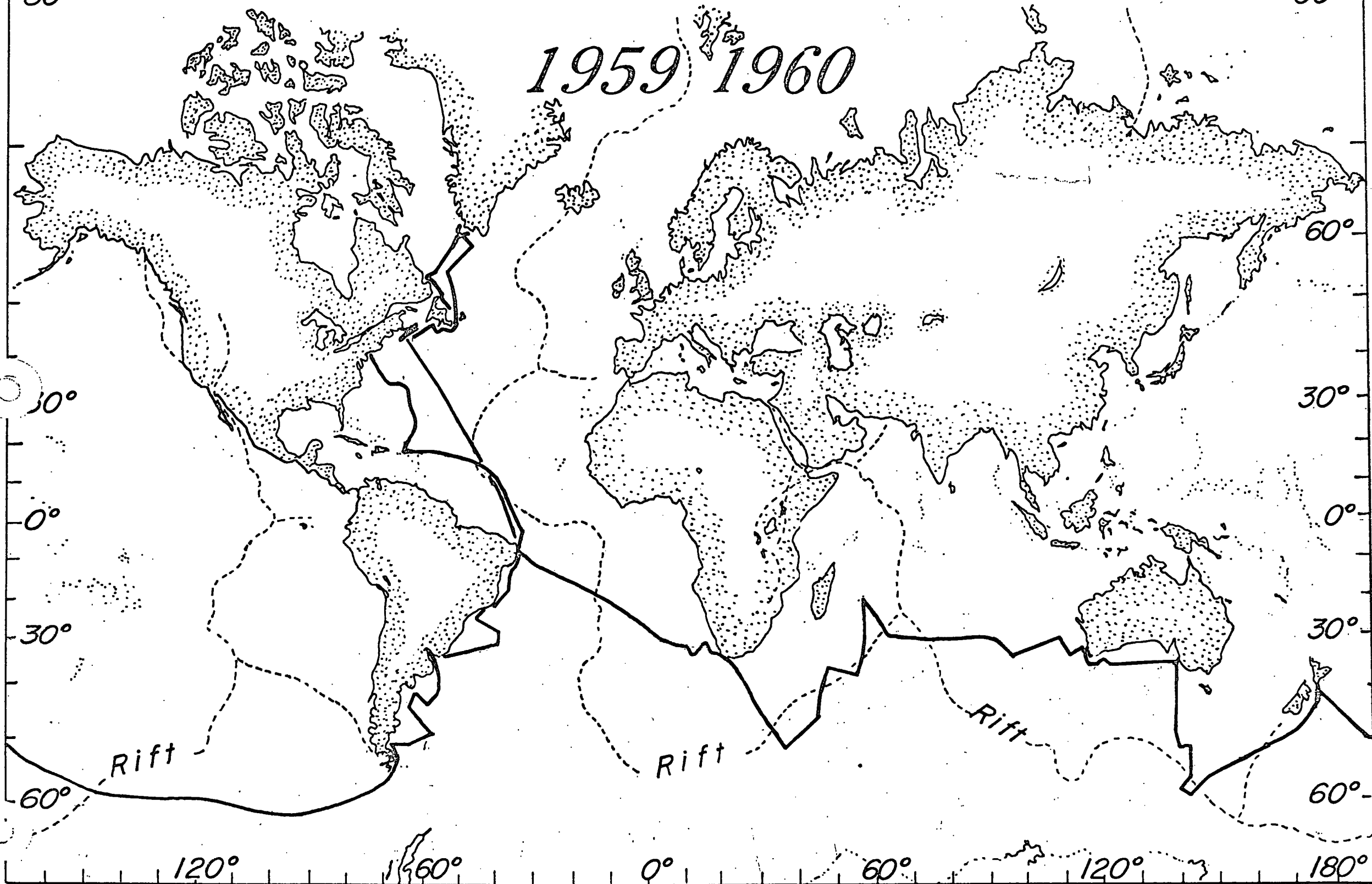
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cover

00511

# VEMA CRUISE 16

## 1959 1960



VEMA 16 TRAWLS

SBT - Small Biology Trawl

Note: All times represented are actual times Trawl on bottom.

RECIFE, BRAZIL - CAPE TOWN, SOUTH AFRICA  
20 November - 21 December 1959

<u>Trawl No.</u>	<u>Date</u> 1959-1960	<u>Times</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Corrected</u> <u>Depths (M)</u>	<u>Core</u> <u>No.</u>	<u>Amount of Trawl</u>
-V16-SBT1	Nov. 23	1316-1335	09°05' S	32°57' W	4797	27	1 quart - Organic Material
V16-SBT2	Nov. 25	1210-1310	11°06' S	29°15' W	5462	28	1 quart - Organic Material and shells
V16-SBT3	Nov. 27	1947-2052	13°04' S	24°41' W	4415	31	2 boxes rocks, shark's teeth, Manganese nodules and 1 small bag - Organic Material
-V16-SBT4	Dec. 2	1137-1240	17°02' S	16°13' W	3530	34	1 quart - Organic Material
V16-SBT5	Dec. 7	2250-2348	22°59' S	06°46' W	5031	38	1 quart - Organic Material, shells
<del>V16-SBT6</del>	Dec. 10	2005-2114	27°52' S	01°06' W	N.I.	<del>41</del>	Unsuccessful
-V16-SBT7	Dec. 11	1731-1831	29°06' S	00°20' E	4455	42	1 quart - Organic Material
V16-SBT8	Dec. 13	1558-1700	30°58' S	05°26' E	5134	44	1 quart - Organic Material and shells
-V16-SBT9	Dec. 18	1319-1340	32°21' S	15°49' E	1655-1628		1 quart, 1 pint - Organic Material
-V16-SBT10	Dec. 18	2131-2201	31°52.5' S	16°19' E	414-414	49	2 quarts - Organic Material
V16-SBT11	Dec. 20	1620-1640	33°28' S	17°02' E	902-893	51	1 pint - Organic Material

CAPE TOWN, SOUTH AFRICA - MAURITIUS  
27 December 1959 - 22 January 1960

V16-SBT12	Jan. 4	0015-0035	49°54' S	36°34' E	4574-4574	60	1 box, 1 pint - Mud, sand, cobbles, Organic Mat. and MNOX
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VEMA 16 TRAWLS

<u>Trawl No.</u>	<u>Date</u> 1960	<u>Times</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Corrected</u> <u>Depths (M)</u>	<u>Core</u> <u>No.</u>	<u>Amount of Trawl</u>
V16-SBT13	Jan. 5	2311-2331	48°42' S	39°57' E	--4252-4270	61	1 bag - pumice and basaltic rocks, Organic material
V16-SBT14	Jan. 6	2248-2325	47°19' S	41°58' E	3884-3384	63	4 bags, 1 pint - pumice rock and Organic material
V16-SBT15	Jan. 8	1455-1515	45°00' S	45°46' E	1618-1518	65	1 pint, 1 bag - Organic material, limey coarse sand and grains
V16-SBT16	Jan. 11	1356-1416	37°09' S	45°31' E	3612-3609	67	1 bag, 1 pint jar? (1 quart) - Organic material, silt, and volcanic rocks
V16-SBT17	Jan. 18	1535-1555	26°54' S	56°04' E	5009-4993	72	1 bag - Manganese nodules

MAURITIUS - FREMANTLE, AUSTRALIA  
25 January - 22 February 1960

V16-SBT18	Jan. 27	1740-1810	25°11' S	59°54' E	5072-5072	76	1 pint - Organic material and slight coarse fraction Red Clay
V16-SBT19	Jan. 29	2135-2202	29°52' S	62°36' E	4609-4426	78	3 boxes - Manganese nodules
V16-SBT20	Feb. 1	1428-1510	30°38' S	70°06.5'E	4032-4069	81	1 bag - Manganese nodules
V16-SBT21	Feb. 6	0938-1018	31°02.5'S	82°57' E	4003-4003	86	1 pint, 1 bag - Organic material
V16-SBT22	Feb. 14	1354-1424	31°30' S	99°17' E	2417-2408	96	1 pint, 1 bag - Organic material and manganese fragments

FREMANTLE, AUSTRALIA - ADELAIDE, AUSTRALIA  
26 February - 14 March 1960

VEMA 16 TRAWLS

FREMANTLE, AUSTRALIA - ADELAIDE, AUSTRALIA  
26 February - 14 March 1960

<u>Trawl No.</u>	<u>Date</u> 1960	<u>Times</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Corrected</u> <u>Depths (M)</u>	<u>Core</u> <u>No.</u>	<u>Amount of Trawl</u>
- V16-SBT23*	Feb. 26	1700-1715	32°05' S	115°16' E	132-132		1 pint - Organic Material
V16-SBT24	Feb. 26	1726-1756	32°04.5' S	115°16.5' E	132-132		1 gallon, 2 quarts - Shell fragments and Organic material
V16-SBT25	Feb. 27	1000-1015	32°17.5' S	115°06' E	240-254	99	1 gallon - Shell fragments and Organic material
V16-SBT26	Feb. 29	0132-0140	33°20' S	114°46' E	55-55		1 quart, 1 bag - limey grains of coarse sand, white powder and Organic material
- V16-SBT27	Mar. 2	0741-0754	35°04' S	115°05' E	929-938	100	2 quarts - Organic material
V16-SBT28	Mar. 5	1940-2012	37°15' S	118°42' E	5156-5156	103	1 bag, 1 quart - pumice stones, volcanic ash and Organic material
V16-SBT29	Mar. 7	2105-2124	37°50' S	124°30' E	5667-5663	105	1 box, 1 pint - Manganese nodules, manganese encrusted volcanic rocks, silt, sand, and Organic material
-V16-SBT30	Mar. 10	1350-1420	36°45' S	132°02' E	5570-5570	108	1 pint - Organic Material

ADELAIDE, AUSTRALIA - WELLINGTON, NEW ZEALAND  
16 March - 6 April 1960

V16-SBT31	Mar. 17	0655-0705	36°57' S	137°33' E	214-265	109	4 gallons - Organic material, medium sand and shell fragments
-V16-SBT32	Apr. 4	1535-1541	46°41' S	171°32' E	1256-1256	122	1 pint - Organic material

\*Shallow water Biology Trawl

VENA 16 TRAWLS

WELLINGTON, NEW ZEALAND - USHUAIA, ARGENTINA  
11 April - 12 May 1960

<u>Trawl No.</u>	<u>Date</u> 1960	<u>Times</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Corrected</u> <u>Depths (M)</u>	<u>Core</u> <u>No.</u>	<u>Amount of Trawl</u>
V16-SBT33	Apr. 16	2345-0012	52°19' S	179°30' W	5167-5225	126	1 pint - Organic material
V16-SBT34	Apr. 18	1342-1416	54°30' S	163°19' W	4640-4658	127	1 box, 5 sample bags - Gravel, basaltic rocks, gneissic pebbles, manganese nodules
V16-SBT35	Apr. 25	0050-0114	59°22' S	132°49' W	3975-3990	130	1 box - manganese nodules, manganese coated worm tubes and Organic material
V16-SBT36	May 2	2210-2241	61°55' S	91°21' W	5086-5086	134	2 boxes, 1 quart - Gravel, Manganese nodules, large basaltic and granitic rocks, Organic material

USHUAIA, ARGENTINA - BUENOS AIRES, ARGENTINA  
14 May - 10 June 1960

V16-SBT37	May 16	2351-2357	51°52' S	67°01' W	101-101	141	7 gals., 1 box - Sand, silt, shells, basaltic rocks, Organic material
V16-SBT38	May 18	1531-1536	51°22.5' S	65°07' W	126-126	142	1 pint, 2 bags - Coarse sand and Organic material
V16-SBT39	May 19	1303-1309	50°53' S	62°35' W	157-157	143	2 gals., 1 pint - Fine to coarse sand, quartzitic and basaltic pebbles, Organic material
V16-SBT40	May 27	0203-0218	42°48' S	63°11' W	70-70		2 gals., 3 pints, 1 box - Shell fragments, clay, silt, quartzose sand, pebbles, Organic material

VEMA 16 TRAWLS

LUNENBERG - HALIFAX, NOVA SCOTIA - ARGENTIA, NEWFOUNDLAND  
4 - 12 August 1960

<u>Trawl No.</u>	<u>Date</u> 1960	<u>Times</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Corrected</u> <u>Depths (M)</u>	<u>Core</u> <u>No.</u>	<u>Amount of Trawl</u>
V16-SBT41	Aug. 10	2320-2322*	46°15' N	56°49' W	49-49		1 gal. - Coarse sand, shells, Organic material
V16-SBT42	Aug. 11	1348-1352	46°38' N	55°07' W	148-148		Sand and pebbles
* Time lowered - time on bottom							
ARGENTIA, NEWFOUNDLAND - ST. PIERRE ISLAND 12 August - 9 September 1960							
V16-SBT43	Aug. 13	2002-2005	47°51' N	51°50' W	N.I.	218	1 quart, 1 gallon - Green mud and Organic material
XV16-SBT44	Aug. 14	1410-1415	48°54' N	51°08' W	311-311	219	N.I.
-V16-SBT45	Aug. 15	0950-0953	50°53' N	52°26' W	265	220	2 quart jars - Organic material
XV16-SBT46	Aug. 16	1707-1713	52°30' N	54°24' W	190-190	221	N.I.
-V16-SBT47	Aug. 17	0830-0835	53°41' N	55°13' W	293-293	222	1 quart jar - Organic material
V16-SBT48	Aug. 21	1312-1318	60°10' N	47°08' W	300-300	224	2 gal. container, 2 quarts - Organic material, 3 bags pebbles
-V16-SBT49	Aug. 21	1700-1715	60°12' N	47°10' W	~274		1 quart - Organic Material
-V16-SBT50	Aug. 24	0655-0700	60°47.5' N	45°37.6' W	412-412	226	1 gal. - Organic material
-V16-SBT51	Aug. 26	1355-1455	60°03' N	50°50' W	3303-3160	227	1 quart jar - Organic material
-V16-SBT52	Aug. 29	1047-1117	55°37' N	56°08' W	2078-2078	230	1 gal. jar - Organic material
-V16-SBT53	Aug. 29	1556-1602	55°22' N	56°43' W	192-192		2 - 1 quart jars - Organic material

## VEMA 16 TRAWLS

<u>Trawl No.</u>	<u>Date</u> 1960	<u>Times</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Corrected</u> <u>Depths (M)</u>	<u>Core</u> <u>No.</u>	<u>Amount of Trawl</u>
-V16-SBT54	Aug. 29	1922-1928	55°13' N	57°00' W	207-207		4 - 1 quart jars - Organic material
V16-SBT55	Aug. 30	1450-1520	55°48' N	56°00' W	2452-2452	231	2 quarts, 1 pint - Sand; limestone-submarble gneiss rocks, Organic material, schists and slates
V16-SBT56	Aug. 31	1443-1449	55°32' N	58°31' W	499-499	232	1 quart - Green clay
-V16-SBT57	Aug. 31	1842-1854	55°35' N	58°37' W	767-791	233	3-1 quart jars - Organic material
V16-SBT58	Sept. 1	0120-0125	55°26' N	58°09' W	95-95		10 - 1 quart jars - Organic material
V16-SBT59	Sept. 1	0920-0924	55°00' N	57°57' W	91-91		1 quart jar - Organic material and 1 bag - 2 granite rocks and gypsum powder
-V16-SBT60	Sept. 4	2100-2103	52°13' N	55°24' W	165-165	237	5 quarts - Organic material
V16-SBT61	Sept. 5	1800-1802	51°18' N	56°52' W	101-101		1 sack - quartzitic, granitic (gneissic) rocks; 2 quarts, 1 pint - Organic material
-V16-SBT62	Sept. 5	2150-2152	51°01' N	57°10' W	55-55		1 quart - Organic material
-V16-SBT63	Sept. 6	0041-0043	51°09' N	57°23' W	91-91	238	2 - 1 quart jars - Organic material
V16-SBT64	Sept. 8	1058-1105	46°53' N	58°31' W	448-448	241	1 quart jar - Brown, silty clay
V16-SBT65	Sept. 9	0326-0335	46°45' N	56°22' W	42-42		2 - 1 quart jars - Organic material; 1 bag - calcium carbonate covered rocks (20), pink granite rocks (3), basaltic rocks (2), and quartzitic rocks (3)



VEMA 16 TRAWLS

LUNENBERG, NOVA SCOTIA - PIERMONT, NEW YORK  
16 - 21 September 1960

<u>Trawl No.</u>	<u>Date</u> 1960	<u>Times</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Corrected</u> <u>Depths (M)</u>	<u>Core</u> <u>No.</u>	<u>Amount of Trawl</u>
-V16-SBT66	Sept. 19	2112-2115	39°45' N	72°01' W	126		9 - 1 quart jars - Organic material (marked as SBT 65)

# Summary Sheets

## VEMA 16 PISTON CORES

CORE NO.	DATE 1959	LOCAL TIME	LATITUDE	LONGITUDE	CORRECTED DEPTH (M)	LENGTH (CM)	TRIGGER CORE LENGTH (CM)
SANDY HOOK, NEW JERSEY - BERMUDA 3 - 18 October 1959							
1 ✓ V16-1	Oct. 4	2203	39°37.8' N	72°27.5' W	132	100	None 116-92
2 ✓ V16-2	Oct. 6	0117	39°31.8' N	72°17.5' W	130	360	None 116-92
3 ✓ V16-3	Oct. 6	1120	39°35' N	72°27' W	124	470	None 116-92
4 ✓ V16-4	Oct. 6	1250	39°34.5' N	72°22.4' W	132	280	None 116-92
5 ✓ V16-5	Oct. 6	1654	39°34.5' N	72°25' W	397	511	None 116-92
6 ✓ V16-6	Oct. 8	1200	38°15' N	71°13' W	2996	24	34 116-81
X ✓ V16-7	Oct. 13	1428	35°11' N	68°03' W	5207	No Core	14 115-58
7 ✓ V16-8	Oct. 14	1200	34°58' N	66°50' W	5176	1160	28 115-46
X ✓ V16-9	Oct. 14	1655	35°02' N	66°43' W	5244	No Core	34 115-56
BERMUDA - SAN JUAN, PUERTO RICO 19 - 30 October 1959							
X ✓ V16-10	Oct. 20	1922	31°56' N	65°11' W	357	No Core	Frag. 115-15
8 ✓ V16-11	Oct. 20	2128	31°57.5' N	65°14.7' W	282	75	None 115-15
9 ✓ V16-12	Oct. 21	0032	31°56.8' N	65°13.5' W	395	47	None 115-15
10 ✓ V16-13	Oct. 21	0129	31°56.8' N	65°13.7' W	772	177	Frag. 115-15
11 ✓ V16-14	Oct. 21	1112	31°57.5' N	65°12.8' W	57	336	Frag. 115-15
12 ✓ V16-15	Oct. 25	2140	25°15' N	62°31' W	5890	943	37 079-52
13 ✓ V16-16	Oct. 28	1435	20°54' N	63°59' W	5222	965	29 079-03
14 ✓ V16-17	Oct. 28	2303	20°52.5' N	64°04' W	5233	2360	24 079-04
SAN JUAN, PUERTO RICO - RECIFE, BRAZIL 31 October - 20 November 1959							
15 ✓ V16-18	Nov. 4	0928	19°10' N	60°31.5' W	5869	70	14 043-90
16 ✓ V16-19	Nov. 6	2106	19°04' N	53°46.5' W	4815**	533	41 042-93

\*\*Water depth at the time the Corer was lowered.

VEMA 16 PISTON CORES

	CORE NO.	DATE 1959	LOCAL TIME	LATITUDE	LONGITUDE	CORRECTED DEPTH (M)	LENGTH (CM)	TRIGGER COR LENGTH (CM)
17	V16-20	Nov. 8	1617	17°56' N	50°21' W	4539	871	42 042-70
18	V16-21	Nov. 9	1053	17°16.5' N	48°25' W	3975	702	29 041-78
19	V16-22	Nov. 10	0956	16°24' N	45°46' W	3948	1190	18 041-65
20	V16-23	Nov. 12	1532	13°15' N	40°40' W	4886	1140	34 041-30
21	V16-24	Nov. 14	1358	08°18' N	38°03' W	3702	60	Frag. 004-88
22	V16-25	Nov. 15	1855	05°04' N	36°48' W	4254	1166	37 004-56
23	V16-26	Nov. 16	1858	02°47' N	35°42' W	4131	1280	24 004-25
RECIFE, BRAZIL - CAPE TOWN, SOUTH AFRICA 20 November - 21 December 1959								
24	V16-27	Nov. 23	1135	09°05' S	32°57' W	4797	1006	34 303-92
25	V16-28	Nov. 24	1318	10°35' S	31°02.5' W	5267	1132	30 339-01
26	V16-29	Nov. 25	1215	11°06' S	29°15' W	5462	70	33 338-19
27	V16-30	Nov. 26	1035	11°44' S	27°37' W	5521	677	37 338-17
28	V16-31	Nov. 27	1927	13°04' S	24°41' W	4424	245	None 338-34
29	V16-32	Nov. 28	2048	13°54' S	22°47' W	5276	1039	34 338-32
30	V16-33	Nov. 30	1053	15°20' S	19°43' W	4360	662	33 337-59
31	V16-34	Dec. 2	1031	17°02' S	16°13' W	3530	765	30 337-76
32	V16-35	Dec. 3	1044	17°39.5' S	15°06' W	3891	980	33 337-75
33	V16-36	Dec. 5	1244	19°22.5' S	11°26.5' W	3329	830	59 337-91
34	V16-37	Dec. 6	2126	21°20' S	08°57' W	3908	517	39 372-18
35	V16-38	Dec. 7	2322	22°59' S	06°46' W	4925	300	31 372-26
36	V16-39	Dec. 8	2306	24°43.5' S	04°45.5' W	4596	602	44 372-44
37	V16-40	Dec. 9	2213	26°16' S	03°01' W	4740	590	38 372-63
38	V16-41	Dec. 10	2247	27°52' S	01°06' W	4462	885	31 372-71
39	V16-42	Dec. 11	1430	29°06' S	00°20' E	4510	834	29 407-90
40	V16-43	Dec. 12	2118	30°10' S	03°11' E	1006	445	Frag. 443-03

## VEMA 16 PISTON CORES

	CORE NO.	DATE 1959-1960	LOCAL TIME	LATITUDE	LONGITUDE	CORRECTED DEPTH (M)	LENGTH (CM)	TRIGGER CORE LENGTH (CM)
41	V16-44	Dec. 13	1618	30°58' S	05°26' E	5127	980	57-443-05
42	V16-45	Dec. 15 <sup>tu, dn</sup>	0448	31°42' S	08°37' E	4817	240	None 443-18
43	V16-46	Dec. 15	2052	32°08' S	10°45' E	4821	398	32-442-20
44	V16-47	Dec. 16	2135	33°24' S	12°35' E	4400	284	13-442-32
45	V16-48	Dec. 18	0351	33°12' S	15°00' E	3680	~1010	61-442-35
46	V16-49	Dec. 18	2127	31°52.5' S	16°19' E	410	894	15-442-16
47	V16-50	Dec. 20	0712	33°21' S	16°26' E	2376	535	31-442-36
48	V16-51	Dec. 20	1605	33°27.5' S	17°02' E	898	572	15-442-37
CAPE TOWN, SOUTH AFRICA - MAURITIUS 27 December - 22 January 1960								
49	V16-52	Dec. 28	1323	35°37' S	19°48' E	168	550	28-442-59
50	V16-53	Dec. 29	0453	36°50' S	21°17.5' E	1500	131	None 441-61
51	V16-54	Dec. 29	1744	37°58' S	22°05' E	5156	810	66-441-72
52	V16-55	Dec. 30	2102	40°14' S	25°15' E	2772	182	Frag. 477-05
53	V16-56	Dec. 31	1043	41°21' S	26°38' E	2961	234	Frag. 477-16
54	V16-57	Jan. 1	2254	45°14' S	29°29' E	5289	1255	35-477-59
55	V16-58	Jan. 3	0223	46°30' S	31°16' E	4731	1283	42-476-61
56	V16-59	Jan. 4	1106	50°03' S	35°11' E	4868	882	23-512-05
57	V16-60	Jan. 4 <sup>tu</sup>	2354	49°59.5' S	36°45.5' E	4574	755	None 476-96
58	V16-61	Jan. 5	2339	48°41.5' S	39°56' E	4534	1196	Frag. 476-89
x	V16-62	Jan. 6 <sup>tu</sup>	1158	48°10' S	40°43' E	4266	No Core (Frag.) 892	29-475-80
59	V16-63	Jan. 6 <sup>tu</sup>	2336	47°19' S	41°58' E	3866	892	None 475-71
60	V16-64	Jan. 7	2312	46°01' S	44°22' E	2202	120	54-475-64
61	V16-65	Jan. 8 <sup>tu</sup>	1512	45°00' S	45°46' E	1618	640	64-475-55
62	V16-66	Jan. 9	1120	42°39' S	45°40' E	2985	1108	32-475-25
63	V16-67	Jan. 11 <sup>tu</sup>	1039	37°09' S	43°30' E	3643	461	42-4439-73

## VEIA 16 PISTON CORES

	CORE NO.	DATE 1960	LOCAL TIME	LATITUDE	LONGITUDE	CORRECTED DEPTH (M)	LENGTH (CM)	TRIGGER CORE LENGTH (CM)
X	V16-68	Jan. 13	1606	39°11' S	54°51' E	4129	No Core (Frag.) 1061	None 438-94
64	V16-69	Jan. 14	1602	37°35' S	56°14' E	4960		36 438-76
65	V16-70	Jan. 16	0944	32°06' S	55°51' E	4649	863	33 438-25
66	V16-71	Jan. 17	1414	29°27' S	56°06' E	4338	332	37 402-96
67	V16-72	Jan. 18	1542	26°54' S	56°04' E	4997	700	62 402-66
68	V16-73	Jan. 21 <sup>†</sup>	1126	21°30' S	56°34' E	4056	1010	None 402-16

MAURITIUS - FREMANTLE, AUSTRALIA  
25 January - 22 February 1960

69	V16-74	Jan. 25	2000	20°40' S	57°35' E	2906	490	21 402-07
70	V16-75	Jan. 26	1055	22°13' S	58°23' E	4766	1256	33 402-28
71	V16-76	Jan. 27 <sup>†</sup>	1500	25°09' S	59°54' E	5316	1193	30 402-59
72	V16-77	Jan. 28	2043	27°15' S	61°02' E	5588	434	None 401-71
73	V16-78	Jan. 29	1912	29°52' S	62°37' E	4684	158	4 401-92
74	V16-79	Jan. 30 <sup>†</sup>	1254	30°07' S	64°14' E	4960	290	36 437-04
75	V16-80	Jan. 31	1754	30°19.5' S	67°16' E	4929	920	Frag. 437-07
76	V16-81	Feb. 1	1636	30°38' S	70°06.5' E	4050	209	34 436-00
77	V16-82	Feb. 2 <sup>†</sup>	1707	31°04' S	73°33' E	3851	710	34 436-13
78	V16-83	Feb. 4	1029	29°57.5' S	78°40' E	2838	125	None 400-98
79	V16-84	Feb. 4	2027	29°44.5' S	79°34' E	3938	610	21 400-99
80	V16-85	Feb. 5	1643	30°00' S	81°32' E	3852	456	None 435-01
81	V16-86	Feb. 6	0748	31°03' S	82°57' E	4001	603	32 435-12
82	V16-87	Feb. 6	2016	31°38' S	83°48.5' E	4316	700	31 435-13
83	V16-88	Feb. 7	1021	32°23' S	84°51' E	3855	700	12 435-24
84	V16-89	Feb. 7	1856	33°01' S	85°47' E	3416	350	4 435-35
85	V16-90	Feb. 8	2158	34°30.5' S	88°18.5' E	4123	601	None 435-48
86	V16-91	Feb. 9	1444	33°23' S	89°08' E	3506	395	5 435-39

VEMA 16 PISTON CORES

CORE NO.	DATE 1960	LOCAL TIME	LATITUDE	LONGITUDE	CORRECTED DEPTH (M)	LENGTH (CM)	TRIGGER CORE LENGTH (CM)
87	Feb. 10	1140	30°45' S	91°18' E	2231	380	None 434-01
88	Feb. 10	2151	30°12' S	91°13' E	2769	275	19 434-01
89	Feb. 11	1426	28°53' S	92°50' E	3878	433	35 398-82
90	Feb. 12	1742	28°01' S	95°11' E	4071	375	24 398-85
91	Feb. 14	1052	31°31.5' S	99°15' E	2417	230	13 434-19
92	Feb. 16 <sup>tr</sup>	1114	33°31' S	101°08.5' E	5967	575	18 433-31
93	Feb. 19	2345	36°07.5' S	106°13' E	6077	1198	47 433-66

FREMANTLE, AUSTRALIA - ADELAIDE, AUSTRALIA  
 26 February - 14 March 1960

X	Feb. 27 <sup>tr</sup>	0932	32°18' S	115°06.5' E	234	No Core (Frag.)	None 432-25
94	Mar. 2 <sup>tr</sup>	0838	35°04' S	115°06' E	855	413	22 432-55
95	Mar. 4	1615	37°30.5' S	116°09' E	5389	33	25 432-76
X	Mar. 4	1925	37°29.5' S	116°07.5' E	5340	No Core	24 432-76
96	Mar. 5	1640	37°15' S	118°11' E	5152	1070	32 432-78
97	Mar. 6 <sup>tr</sup>	1712	38°03' S	121°09' E	5024	93	None 431-81
98	Mar. 7 <sup>tr</sup>	1807	37°50' S	124°29' E	~5663	~1130	44 431-74
99	Mar. 8	1705	37°28' S	126°22' E	5585	995	34 431-76
100	Mar. 9	1437	36°53.5' S	129°15' E	5572	40	33 431-69
101	Mar. 10	1701	36°44' S	132°03' E	5570	1091	40 430-62

ADELAIDE, AUSTRALIA - WELLINGTON, NEW ZEALAND  
 16 March - 6 April 1960

102	Mar. 17	0639	36°57' S	137°33' E	203	585	None 430-67
103	Mar. 17 <sup>tr</sup>	1140	37°43' S	137°15' E	5287	1043	27 430-77
X	Mar. 18	1345	40°45' S	137°10' E	5225	No Core (Frag.)	None 466-07
104	Mar. 19	1154	43°05' S	137°10.5' E	4700	640	56 466-37
105	Mar. 21	1429	48°05' S	137°39' E	3599	530	57 466-87

VEMA 16 PISTON CORES

	CORE NO.	DATE 1960	LOCAL TIME	LATITUDE	LONGITUDE	CORRECTED DEPTH (M)	LENGTH (CM)	TRIGGER CORE LENGTH (CM)
106	V16-114	Mar. 22	1037	49°36' S	138°13' E	3116	1080	None 466-98
107	V16-115	Mar. 25	1347	55°41' S	141°17' E	3147	1020	18 501-51
108	V16-116	Mar. 28	1925	55°05.5' S	147°29' E	3296	765	None 501-57
109	V16-117	Mar. 30	1036	53°24' S	153°59' E	3992	590	19 500-33
110	V16-118	Mar. 31	1838	52°52' S	158°53' E	4305	40	56 500-28
111	V16-119	Mar. 31	2046	52°51.5' S	158°55' E	4338	785	60 500-98
112	V16-120	Apr. 1	1045	52°30.30' S	160°23.10' E	220	465	Frag. 499-20
113	V16-121	Apr. 2	1544	50°39.5' S	164°23' E	3614	1042	32 499-04
114	V16-122	Apr. 4	1330	46°41.5' S	171°30' E	1265	1010	34 462-61
115	V16-123	Apr. 6	0907	42°38' S	174°49' E	1774	298	15 462-24

WELLINGTON, NEW ZEALAND - USHUAIA, ARGENTINA  
 11 April - 12 May 1960

116	V16-124	Apr. 12	1526	43°09' S	175°17' E	115	204	None 462-35
117	V16-125	Apr. 13	1520	47°01' S	179°15' W	2953	896	33 461-79
118	V16-126	Apr. 16	1640	52°16' S	170°30' W	5216	80	62 497-20
119	V16-127	Apr. 18	1602	54°30' S	163°19' W	4471	173	42 496-43
120	V16-128	Apr. 20	1333	57°29' S	153°53' W	3528	441	None 495-73
121	V16-129	Apr. 22	2255	59°22' S	142°52.5' W	3651	312	28 494-92
122	V16-130	Apr. 24	2220	59°22' S	132°46' W	3904	535	None 493-92
123	V16-131	Apr. 27	2350	59°19.5' S	117°24' W	5029	1074	4 491-97
124	V16-132	Apr. 29	0122	60°44.5' S	107°29' W	4898	1162	None 526-07
125	V16-133	May 2	0414	61°56.5' S	95°03' W	5062	435	49 525-15
126	V16-134	May 3	0148	61°54' S	91°15' W	5138	828	63 525-11
X	V16-135	May 5	2317	61°03' S	80°40' W	4916	No Core (Frag.)	None 524-10
127	V16-136	May 7	1224	59°17' S	74°37' W	4874	1215	44 487-94
128	V16-137	May 9	0836	58°53' S	71°57' W	4045	52	45 487-81

## VEMA 16 PISTON CORES

	CORE NO.	DATE 1960	LOCAL TIME	LATITUDE	LONGITUDE	CORRECTED DEPTH (M)	LENGTH (CM)	TRIGGER CORE LENGTH (CM)
129	V16-138	May 11	1235	55°13.5' S	66°35' W	88	411	None
USHUAIA, ARGENTINA - BUENOS AIRES, ARGENTINA 14 May - 10 June 1960								
133	V16-139	May 14	1514	54°54' S	67°43' W	187	550	21 486-47
1	V16-140	May 16	1030	53°06' S	65°29' W	115	111	None 486-35
2	V16-141	May 17	0008	51°52' S	67°01' W	97	84	None 486-17
3	V16-142	May 18	0855	51°26' S	65°08' W	126	226	None 486-15
4	V16-143	May 19	0945	50°53' S	62°42' W	157	165	None 486-02
5	V16-144	May 20	1058	50°30' S	60°26' W	141	440	Frag. 486-00
6	V16-145	May 20	1917	50°14' S	59°13' W	146	450	None 485-09
7	V16-146	May 21	0838	49°20' S	57°22' W	353	64	None 449-97
8	V16-147	May 22	0556	49°00' S	58°41' W	549	221	None 449-98
9	V16-148	May 22	1810	48°34' S	60°03' W	439	320	8 450-80
140	V16-149	May 23	0945	48°09' S	61°19' W	150	262	None 450-81
1	V16-150	May 23	1758	48°05' S	61°13' W	159	284	None 450-81
2	V16-151	May 24	1042	46°45' S	61°28' W	128	48	None 450-61
3	V16-152	May 25	0535	46°05.5' S	61°44.5' W	101	145	N. I. 450-61
4	V16-153	May 25	1524	45°45' S	62°22.5' W	86	141	None 450-52
5	V16-154	May 26	0930	44°31' S	62°06' W	97	150	None 450-42
6	V16-155	May 26	1954	44°12' S	62°21.5' W	91	200	None 450-42
7	V16-156	May 27	0918	42°51' S	63°16' W	70	30	None 450-23
8	V16-157	May 28	1730	40°41' S	61°35' W	31	160	None 450-01
9	V16-158	May 29	1041	39°37.5' S	61°27' W	17	282	None 414-91
150	V16-159	May 30	1549	42°04' S	58°09' W	124	105	None 449-28
1	V16-160	May 30	1626	42°05' S	58°06' W	192	<del>87</del>	None 449-28
X	V16-161	May 30	2126	42°22' S	57°48' W	1315	No Core	None 449-27

~~\*\*\*Both shipboard log and description state "No Core" obtained but Core Storage has 87 cm. of sediment marked V16-160.~~



VEMA 16 PISTON CORES

CORE NO.	DATE 1960	LOCAL TIME	LATITUDE	LONGITUDE	CORRECTED DEPTH (M)	LENGTH (CM)	TRIGGER CORE LENGTH (CM)
152 ✓ V16-162	May 31	1152	43°38' S	56°11' W	5059	1000	24 449-36
3 ✓ V16-163	May 31	1818	43°50' S	55°34' W	5222	22	24 449-35
4 ✓ V16-164	June 1	0753	43°48' S	57°12' W	3957	980	27 449-37
5 ✓ V16-165	June 1	2131	43°58' S	57°20' W	3566	1091	26 449-37
6 ✓ V16-166	June 2	1310	43°26' S	57°37' W	4032	290	N. I. 449-37
7 ✓ V16-167	June 2	1740	43°17' S	57°30' W	4019	118	N. I. 449-37
8 ✓ V16-168	June 3	1149	43°48' S	57°43' W	3180	331	25 449-37
9 ✓ V16-169	June 4	0840	42°45' S	57°43' W	1873	201	N. I. 449-27
160 ✓ V16-170	June 4	1803	41°50' S	57°53' W	115	190	N. I. 449-17
1 ✓ V16-171	June 5	1303	40°58' S	57°12' W	101	260	N. I. 449-07
✓ V16-172	June 5	1607	40°53' S	57°10' W	93	296	None 449-07
3 ✓ V16-173	June 6	0842	39°43' S	56°01' W	97	130	N. I. 413-96
4 ✓ V16-174	June 7	0901	39°02' S	55°42' W	115	98	N. I. 413-95
5 ✓ V16-175	June 7	2243	37°36' S	55°07' W	115	206	None 413-75
6 ✓ V16-176	June 8	0848	37°14' S	54°43' W	134	492	None 413-74
7 ✓ V16-177	June 8	1315	36°50' S	54°23' W	123	475	N. I. 413-64

BUENOS AIRES, ARGENTINA - RIO DE JANEIRO, BRAZIL  
16 - 30 June 1960

8 ✓ V16-178	June 16	1432	34°56' S	54°06' W	33	559	13 413-44
9 ✓ V16-179	June 16	1745	34°56' S	54°12' W	31	1345	15 413-44
170 ✓ V16-180	June 16	1143	34°52' S	52°40' W	75	398	None 413-42
1 ✓ V16-181	June 18	1405	34°24' S	49°32' W	3374	852	39 412-49
2 ✓ V16-182	June 19	0615	34°00' S	48°04' W	3748	742	33 412-48
3 ✓ V16-183	June 19	2311	33°41' S	45°26' W	4120	959	32 412-35
4 ✓ V16-184	June 20	1135	33°33' S	44°33' W	4144	640	59 412-34
5 ✓ V16-185	June 21	0939	33°25' S	43°00' W	4437	1074	48 412-33

VEMA 16 PISTON CORES

CORE NO.	DATE 1960	LOCAL TIME	LATITUDE	LONGITUDE	CORRECTED DEPTH (ft)	LENGTH (CM)	TRIGGER CORE LENGTH (CM)
176 - V16-186	June 22	1420	32°55' S	40°25' W	4746	434	None 412-20
7 - V16-187	June 23	0943	31°28' S	40°05' W	3643	711	28 412-10
8 - V16-188	June 24	0327	30°56' S	39°27' W	4665	10	None 411-09
9 - V16-189	June 25	1723	28°50' S	41°02' W	3781	913	36 376-81
180 - V16-190	June 26	1314	27°57' S	42°27' W	2919	487	None 376-72
1 - V16-191	June 27	0032	27°12' S	43°27' W	2626	783	50 376-73
2 - V16-192	June 27	1344	26°25' S	44°13' W	2434	717	5 376-64
3 - V16-193	June 28	1240	25°28' S	45°19' W	137	569	None 376-55
4 - V16-194	June 28	2119	24°46' S	45°01' W	117	473	None 376-45
5 - V16-195	June 29	1436	23°33' S	43°54' W	88	428	19 376-33
6 - V16-196	June 30	0731	22°57.5' S	43°08.7' W	17	270	None 376-23

RIO DE JANEIRO, BRAZIL - LUNenburg, NOVA SCOTIA  
2 July - 1 August 1960

7 - V16-197	July 6	1602	15°56' S	35°17' W	4078	950	46 339-5
8 - V16-198	July 7	1606	13°28' S	35°41' W	4409	478	35 339-35
9 - V16-199	July 10	1302	04°04' S	35°00' W	3400	1193	26 303-45
190 - V16-200	July 12	1015	01°58' N	37°04' W	4093	1050	19 004-17
1 - V16-201	July 12	1415	02°01' N	37°09' W	4274	2020	None 004-27
2 - V16-202	July 13	1342	04°32' N	37°50' W	4292	907	23 004-47
3 - V16-203	July 15	1206	09°21' N	39°52' W	4158	1164	9 004-99
4 - V16-204	July 16	1130	10°44' N	40°24' W	5271	1127	Frag. 041-00
5 - V16-205	July 18	1545	15°24' N	43°24' W	4043	1232	30 041-53
6 - V16-206	July 21	1200	23°20' N	46°29' W	3733	525	35 077-36
7 - V16-207	July 22	1721	25°51' N	48°23' W	4828	877	37 077-58
8 - V16-208	July 23	1231	27°44' N	49°55' W	4861	859	31 077-79
9 - V16-209	July 24	1255	30°00' N	51°52' W	4673	540	32 114-01

VEMA 16 PISTON CORES

CORE NO.	DATE 1960	LOCAL TIME	LATITUDE	LONGITUDE	CORRECTED DEPTH (M)	LENGTH (CM)	TRIGGER CORE LENGTH (CM)
200 / V16-210	July 27	0321	34°53' N	55°34' W	5471	515	24 114-45
1 / V16-211	July 27	2134	36°18' N	57°00' W	5266	798	42 114-67
2 / V16-212	July 29	1250	38°36' N	58°55' W	5222	338	None 114-88
3 / V16-213	July 30	2344	41°43' N	61°54.5' W	3866	1073	33 151-11
LUNENBURG, NOVA SCOTIA - HALIFAX, NOVA SCOTIA HALIFAX, NOVA SCOTIA - ARGENTIA, NEWFOUNDLAND 4 - 12 August 1960							
4 / V16-214	Aug. 9	1426	45°31.5' N	60°01' W	152	328	N. I. 151-50
5 / V16-215	Aug. 10	0908	45°57' N	58°11' W	384	586	10 150-58
6 / V16-216	Aug. 11	0845	46°26' N	55°31' W	163	232	11 150-65
7 / V16-217	Aug. 11	1652	46°38' N	55°05' W	155	176	7 150-65
ARGENTIA, NEWFOUNDLAND - ST. PIERRE ISLAND 12 August - 9 September 1960							
8 / V16-218	Aug. 13	1927	47°51' N	51°50' W	179	180	11 150-71
9 / V16-219	Aug. 14	1141	48°56' N	51°11' W	346	290	7 150-81
210 / V16-220	Aug. 15	0854	50°53' N	52°26' W	265	565	N. I. 186-02
1 / V16-221	Aug. 16	1703	52°30' N	54°24' W	187	55	None 186-24
2 / V16-222	Aug. 17	0746	53°41' N	55°13' W	284	585	None 186-35
3 / V16-223	Aug. 18	0800	54°44.5' N	53°41' W	386	10	None 186-43
4 / V16-224	Aug. 21	1225	60°10' N	47°07' W	300	83	8 221-07
5 / V16-225	Aug. 22	0917	60°08' N	46°52' W	293	560	None 221-06
6 / V16-226	Aug. 24	0651	60°47.6' N	45°37.2' W	412	1280	20 221-05
7 / V16-227	Aug. 26	1340	60°02.5' N	50°50' W	3305	1178	42 222-00
8 / V16-228	Aug. 27	1919	58°21' N	52°18' W	3407	1170	45 186-82
9 / V16-229	Aug. 28	1859	56°41' N	54°11' W	3255**	1154	48 186-64

\*\*Water depth at the time the Corer was lowered.

## VEMA 16 PISTON CORES

CORE NO.	DATE 1960	LOCAL TIME	LATITUDE	LONGITUDE	CORRECTED DEPTH (M)	LENGTH (CM)	TRIGGER CORE LENGTH (CM)
220 ✓ V16-230	Aug. 29	1004	55°37' N	56°08' W	2063	896	22 186-56
1 ✓ V16-231	Aug. 30 <sup>th</sup>	1459	55°48' N	56°00' W	2453	591	N. I. 186-56
2 ✓ V16-232	Aug. 31	1352	55°32' N	58°31' W	496	569	17 186-58
3 ✓ V16-233	Aug. 31 <sup>th</sup>	1844	55°35' N	58°37' W	749	577	13 186-58
4 ✓ V16-234	Sep. 1	1523	55°14' N	58°00' W	232	105	9 186-58
5 ✓ V16-235	Sep. 2 <sup>th</sup>	1303	55°50' N	58°40' W	564	615	N. I. 186-58
6 ✓ V16-236	Sep. 3	1433	54°35' N	55°38' W	293	592	N. I. 186-45
7 ✓ V16-237	Sep. 4 <sup>th</sup>	1437	52°18' N	55°26' W	155	100	N. I. 186-25
8 ✓ V16-238	Sep. 6	0007	51°09' N	57°23.5' W	88	530	N. I. 186-17
9 ✓ V16-239	Sep. 6	1547	50°15.5' N	58°27' W	315	472	None 186-08
230 ✓ V16-240	Sep. 7	2205	47°15' N	59°30' W	457	1225	N. I. 150-79
1 ✓ V16-241	Sep. 8 <sup>th</sup>	1021	46°53' N	58°33' W	439	332	28 150-68
ST. PIERRE ISLAND - LUNenburg, NOVA SCOTIA 9 - 12 September 1960							
232 ✓ V16-242	Sep. 11	1321	44°59' N	60°46.5' W	190	591	15 151-40

REVISED JULY 1965