

## COLUMBIA UNIVERSITY • INTERDEPARTMENT MEMORANDUM

Date December 5, 1963To WHOEVER IT MAY CONCERNFrom Carolyn PeppinSubject CONRAD 7

There has been a great deal of confusion over the break-down of the legs of CONRAD-7 and a great many people looking for the various data, navigation, etc. In an effort to clear it all up, I have put together all the information I could find on it.

All the Chief Scientists involved feel the legs should be broken down as:

Leg 1 -	Boston to New York	23 July - 26 July	C. Windish
Leg 2 -	New York to Martinique	26 July - 9 Aug.	C. Fray
Leg 3 -	Martinique to Martinique	13 Aug. - 16 Aug.	S. Gerard
	Martinique to Martinique	19 Aug. - 22 Aug.	"
	Martinique to Martinique	24 Aug. - 2 Sept.	"
	Martinique to Martinique	4 Sept. - 26 Sept.	"
	Martinique to St. Thomas	7 Sept. - 20 Sept.	"
Leg 4 -	St. Thomas to San Juan	25 Sept. - 14 Oct.	M. Talwani

The data taken on these legs is scattered around the observatory as follows:

Leg 1 -	Profiler Records	- Dr. Ewing has copies
	Sparker Records	- Paul Chelminski
	Scientific Log	- Left on Board Ship (no camera, no cores taken)
	Navigation	- C. Peppin
	PDR Records	- C. Peppin
Leg 2 -	Profiler Records	- Dr. Ewing has copies ready.
	Scientific Log	- very rough - C. Fray will make copies when
	Navigation	- very rough - C. Fray will make copies when ready - Bob Houtz has last part of the leg.
	PDR Records	- C. Peppin - Both Narrow Beam & Standard Beam
	Camera Log	- Dr. Ewing - C. Peppin has negatives
Leg 3 -	Profiler Records	- #1-56 - Dr. Ewing has copies
	Scientific Log	- Sam Gerard has - copies enroute
	Navigation	- Bob Sexton - he also has Deck Log
	PDR Records	- C. Peppin
	Camera Log	- C. Peppin ( <del>Sam Gerard has one negative #5</del> )
Leg 4 -	Profiler Records	- Dr. Ewing has copies (#57-154)
	Scientific Log	- Dr. Ewing
	Navigation	- Alberto Lenardi
	PDR Records	- C. Peppin
	Camera Log	- C. Peppin - Bottom Negatives too

*Peppin has some Deck Log*

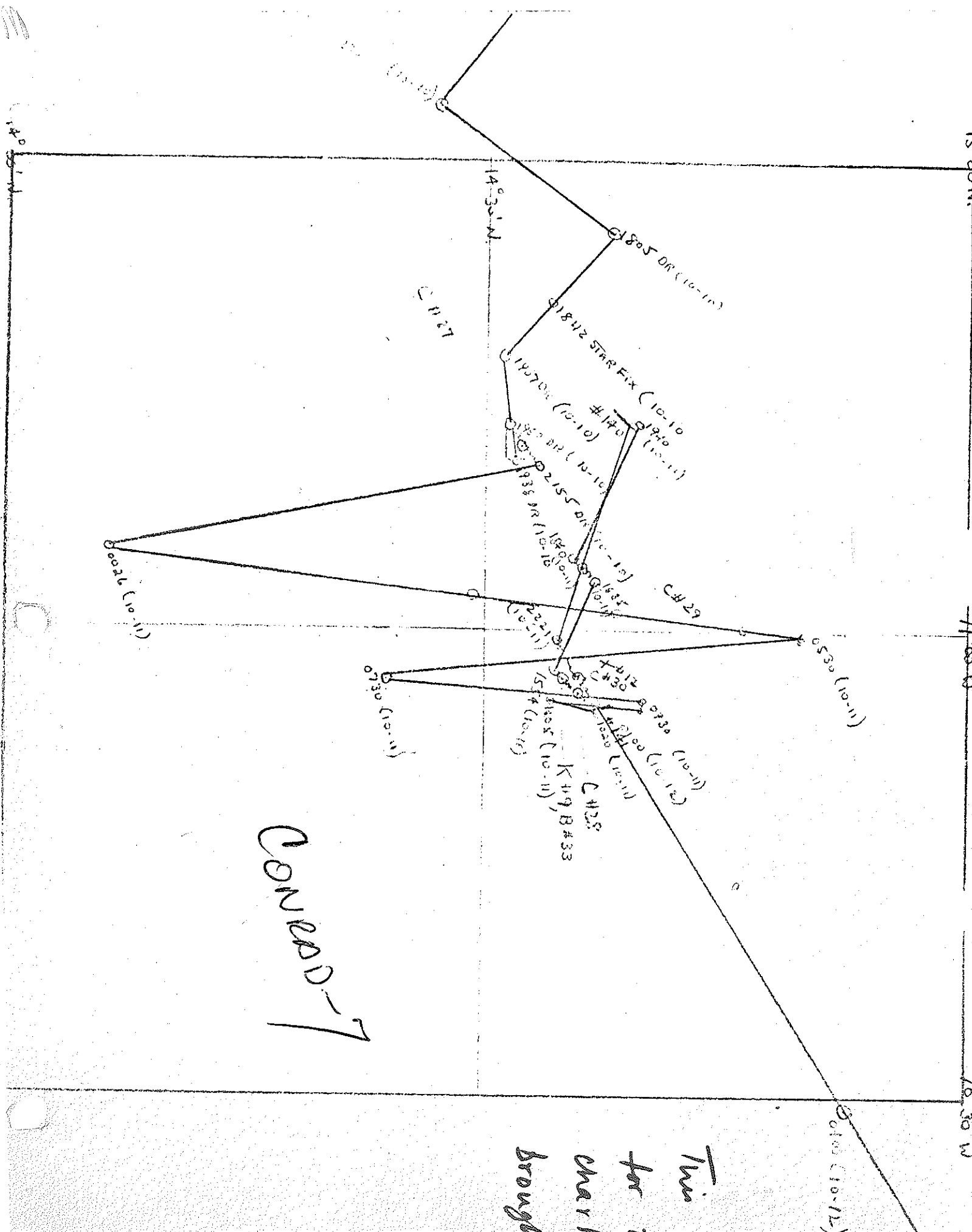
## COLUMBIA UNIVERSITY • INTERDEPARTMENT MEMORANDUM

Date November 13, 1963To Captain SinclairFrom Carolyn PeppinSubject Numbering of Legs of CONRAD-7

Skipper - Have just talked to Roy Cape and there still seems to be a little confusion on the break-down of the legs of CONRAD-7. Most everyone I've talked to is marking there data according to the following:

Leg 1	Boston to Earle	23 July - 26 July	Charlie Windish
Leg 2	Earle to Martinique	26 July - 9 Aug.	Chuck Fray
Leg 3	Martinique to Martinique	13 Aug. - 16 Aug.	Sam Gerard
	Martinique to Martinique	19 Aug. - 22 Aug.	
	Martinique to Martinique	24 Aug. - 2 Sept.	
	Martinique to Martinique	4 Sept.- 6 Sept.	
	Martinique to St. Thomas	7 Sept.- 20 Sept.	
Leg 4	St. Thomas to San Juan	25 Sept. - 14 Oct.	Manik Talwani

Have you been advised to break it down differently?? If so, we'd better all have a pow-wow so that everyone is going in the same direction. Thanks.



CONRAD-7

This is for the chart brought

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SCIENTIFIC LOG

CONRAD 7 Leg 3

ONE

Research Vessel *VISTA CONRAD*

CRUISE N° *7*

CRUISE LEG--From *MARTINIQUE* To *ST THOMAS*

Date	STATION and N°	TIME		SOUNDING		POSITION		LOG
		Start	End	Start	End	N, Lat.	W, Long.	
1963 13/8/63	PROFILING	1539	2107					5500/REV. BOOMER 7KW SEC BANK - OFF SIGHT IN COIL
13/8	PROFILING	2214						RESUME SHOOTING USING CAPS WITH LEL
14/8			1152					HYDROPHONE - STOP FOR CURRENT METER STA.
14/8	ANCHOR STA	1400		AVG 535 FM		14°17.2'	60°53.0'	ANCHOR STA IN ST LUCIA CHANNEL USING DECK
14/8			1430					RECORDING METER - MADE 5 UP+DOWN LOWERINGS
15	HYDRO 1	0845	1120	530 FM		14°17.2'	60°53.0'	2 CAST STATION, 15 BOTTLES -
15	ISOTOPE 2TH	0900		530 FM		14°17.2'	60°53.0'	190L SURFACE SAMPLE, UNSPIKED, ABSORBED Fe(OH)
15	ISOTOPE 4	1000		530 FM		14°17.2'	60°53.0'	16L SURF. SAMPLE SPIKED WITH U <sup>232</sup> ABS ON Fe(OH)
15	BIO#1	1130	1145	530 FM		14°17.2'	60°53.0'	16 MIN VERTICAL HAUL FROM 300 METERS
15	BUOY 1a	1500	1930	522 FM		14°17.3'	60°54.3'	PUT OVER WHALE BUOY, 5 RECORDING METERS, ON 1/2 INCHES
15	PROFILING	2045						RESUME SHOOTING CAPS
16	PROFILING	0402	0430					BEGIN 1/2 LB BLOCKS THEN STOP FOR PORT.
19	PROFILING	1709						SHOOTING 1/2 LB FLOATERS - RUN WEST OF
20			0343					ST LUCIA CHANNEL + RETURN
20	BUOY 1	1030	1350	530 FM		14°17'	60°53.6'	ANCHORED METER ARRAY USING TOROID FLOAT, 4 METERS
20	ANCHOR STA	1530		475 FM		14°19.5'	60°53.9'	ANCHOR STA. USING ELECTRIC CURRENT METER.
21	#2		1530					COMPLETED 4 UP+DOWN LOWERINGS
20	HYDRO 2	1815	2045	480 FM		14°19.5'	60°53.9'	16 BOTTLES IN 2 CASTS WHILE ANCHORED.
21	BOTTOM METER 1	1130	1400	477 FM		14°19.5'	60°53.9'	THORNDYKE PHOTO. CURRENT METER USED WHILE ANCHORED
21	BIO #5	0035						VERTICAL FROM 300M - 16 MIN.
		0109		475 AVG		14°19.5'	60°53.9'	SURF TOW - 23 MIN.
		1426						VERTICAL FROM 300M - 20 MIN.
		1505						SURFACE TOW - 19 MIN.
21	ANCHOR STA	1800				14°13.7'	60°54.7'	3 DOUBLE LOWERINGS OF ELECTRIC CURRENT
22	#3		0830					METER WHILE ANCHORED
20	ISOTOPE 3Po	1830		480 FM		14°19.5'	60°53.9'	190L SURFACE WATER SPIKED WITH Pa <sup>233</sup>
20	ISOTOPE 3U	1930		480 FM		14°19.5'	60°53.9'	16 L SURFACE WATER SAME TREATMENT AS 2U
22	BOTTOM METER 2	0200	0310	462 FM		14°13.7'	60°54.7'	THORNDYKE PHOTO METER PUT ON BOTTOM WHILE ANCHORED

R. Conrad

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Research Vessel *CONRAD*

CRUISE N° 7

CRUISE LEG—From MARTINIQUE To ST THOMAS

TIME ZONE \_\_\_\_\_

1963 Date	STATION and N°	TIME		SOUNDING		POSITION		LOG	REMARKS
		Start	End	Start	End	N/Lat.	W/Long.		
AUG									
22	HYDRO 3	0037	0245	468 FM		14°13.7'	60°54.7'		16 NANSSEN BOTTLES IN 2 CASTS
22	PROFILING	0909	1038					7948	SHOOTING 1/2 LB FLOATERS
		1038	1105						CHANGE TO CAPS THEN STOP FOR ENTERING PORT
25	PROFILING	1558							BEGIN 1/2 LB FLOATERS 5 SEC/REV.
26	PROFILING	0007	0717						SHOOTING CAPS
26	PROFILING	0717	0932						CHANGE TO BLOCKS
26	PROFILING	0932	1127					8293	CHANGE TO CAPS THEN STOP FOR STATION
26	BUOY #2	1500	1920	488 FM		13°24.8'	61°00.5'		SET TIDE BODY IN ST VINCENT CHANNEL WITH 4 METERS.
26	ANCHOR STA	2130		280 FM		13°30.8'	61°00.5'		MADE 4 DOUBLE CURRENT METER LOWERINGS
27	# 4		2330	220 FM					CURSORY LOOK AT RECORDS SEEMS ALL OK.
27	HYDRO 4	0840	1000	218 FM		13°30.5'	60°59.5'		ONE CAST, 10 NANSSEN BOTTLES, AT ANCHOR
27	BOTTOM METER 3	1050	1310	218 FM		13°30.5'	60°59.5'		THORNDYKE CAMERA METER - SHOWED 15 cm/sec TO NE. WHILE AT ANCHOR
27	BIO. 6	1020	1050			13°30.5'	60°59.5'		19 MIN VERTICAL - 300 M
		1800	1830			13°30.5'	60°59.5'		20 MIN VERTICAL - 300 M
28	ANCHOR STA	1130		435 FM		13°27.4'	61°01.1'		3 UP AND DOWN LOWERINGS OF ELEC. CURRENT METER WHILE ANCHORED
29	# 5		0200						
28	HYDRO 5	1432	1600	435 FM		13°26.8'	61°00.8'		ONE CAST, 15 BOTTLES WHILE AT ANCHOR
28	BIO 7	1610	1630	435 FM		13°26.8'	61°00.8'		VERTICAL - 300 M - 19 MIN.
28	BOTTOM METER 4	1630	1800	435 FM		13°26.8'	61°00.8'		THORNDYKE BOTTOM PHOTO METER ON ANCHOR STA.
29	ANCHOR 6	0530	2000	410 FM		13°22'	61°03'		SIX SINGLE LOWERINGS OF ELECTRIC CURRENT METER

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CRUISE N° 7

CRUISE LEG—From MARTINIQUE To ST. THOMAS

TIME ZONE \_\_\_\_\_

1963 Date	STATION and N°	TIME		SOUNDING		POSITION		LOG	REMARKS
		Start	End	Start	End	Lat.	Long.		
<u>AUG</u>									
29	BIO. 8	1000		410 FM		13°22'	61°03'		SURFACE TOW - 30 MIN.
		1105							VERTICAL - 300 M. - 17 MIN.
29	HYDRO 6	1315	1430	410 FM		13°21.4'	61°02.1'		ONE CAST, 15 NANSSEN BOTTLES.
29	BOTTOM METER 5	1500	1700	410 FM		13°21.4'	61°02.1'		THOMSONDYKE PHOTO-METER FROM ANCHORED SHIP.
29	PROFILING	1946	2040						SHOOTING CAPS THEN STOP FOR STA.
29	HYDRO 7	2109	2315	680 FM		13°19.9'	60°41.0'		20 NANSSEN BOTTLES IN 2 CASTS
29	PROFILING	2322							RESUME SHOOTING CAPS
30			0434						STOP FOR HYDRO STA.
30	HYDRO 8	0440	0700	128 FM		14°15.5'	60°42.0'		20 NANSSEN BOTTLES IN 2 CASTS
30	HYDRO 9	0955	1200	707 FM		14°02'	60°36'		20 NANSSEN BOTTLES IN 2 CASTS
30	PROFILING	1204	1351					8394.9	RESUME CAPS THEN STOP FOR STA.
30	HYDRO 10	1423	1605	1009 FM		14°24'	60°35.5'		20 NANSSEN BOTTLES IN 2 CASTS
30	PROFILING	1615	1727						RESUME WITH CAPS THEN STOP FOR STA.
30	DRAGUE 1	2218				14°13'	60°44'		SURFACE (10M.) PARACHUTE DRAGUE
1 SEPT			1800			041.5°	10.25 mi		USING SURFACE SPAR BUOY
									R. & B. TO ROCHER DU DIAMANT MARTINIQUE
30	DRAGUE 2	2328				314°	11.4 mi		TO CARRIT PT. MARTINIQUE. } PARACHUTE
1 SEPT			2255			48°	16.2 mi		" " " " } AT 65 (M.)
31	DRAGUE 3	0041	1146			321°	10.6 mi		TO CARRIT PT. } PARACHUTE WITH PINGER
						335	7.75 mi		" " " " } AT 325 M.

R. Deserand

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CRUISE N° 7

CRUISE LEG<sup>3</sup> From MARTINIQUE To St Thomas

TIME ZONE

Date 1963	STATION and N°	TIME		SOUNDING		POSITION		LOG	REMARKS
		Start	End	Start	End	N. Lat.	W. Long.		
AUG 31	HYDRO 11	1810	2045	1466 FM		14°26.5'	61°16'		22 NANSEN BOTTLES IN 2 CASTS
31	PROFILING	2107	2325						SHOOTING 1/2 LB. FLOATERS.
SEPT. 1	DRAGUE 4	0415				350°	6.6 mi		PT. CAIRIT PT. } PARACHUTE DEQUE AT 610 M
2			0850			356°	12.1 mi		" " " } ST. LUCIA CHANNEL
1	HYDRO 12	1835	2135	1461 FM		14°17'	61°14'		22 NANSEN BOTTLES IN 2 CASTS
2	HYDRO 13	0355	0715	1540 FM		14°08'	61°19'		22 NANSEN BOTTLES IN 2 CASTS
2	RECOVERY BUOY #1	1200	1448	530 FM		14°17'	60°53.6'		TOOK UP BUOY AND METERS USING CORE WINCH
2	PROFILING	1507	1642					8750.1	SHOOTING 1/2 LB. FLOATERS
4	PROFILING	1814							SHOOTING 1/2 LB. FLOATERS LEAVING PORT
5			0044					8950.3	
5	HYDRO 14	0130	0430	1453 FM		13°35'	61°20'		22 NANSEN BOTTLES IN 2 CASTS
5	BIO. 9	0440	0500			13°35'	61°20'		20 MIN VERTICAL FROM 300 M.
5	RECOVERY BUOY #2	0915	1115			13°24.8'	61°00.5'		TOOK UP ARRAY USING CORE WINCH
5	PROFILING	1122	1300					8903.0	SHOOTING 1/2 LB. FLOATERS
5	HYDRO 15	1330	1630	780		13°09.5'	60°52.5'		17 BOTTLES - 2 CASTS
5	BIO. 10	1630	1700			13°09.5'	60°52.5'		B.P.S. TOW 500 M - 875 M - 30 MIN.
5	DRAGUE 5	1948							PARACHUTE AT 685 M
6			1130						ST VINCENT
5	DRAGUE 6	2155							PASSAGE
7			0835						PARACHUTE AT 137 M
5	DRAGUE 7	2140							PARACHUTE AT SURFACE
7			0705						

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CRUISE N° 7

CRUISE LEG 3 From MARTINIQUE To ST THOMAS

TIME ZONE

Date	STATION and N°	TIME		SOUNDING		POSITION		LOG	REMARKS
		Start	End	Start	End	N. Lat.	W. Long.		
SEPT 6	DEQUEB	1658				ST VINCENT			PARACHUTE AT 550 METERS
7			1023			CHANNEL			
6-7	HYDRO 16	2351	0200	827 PM		13°31' 60°39'			17 BOTTLES IN 2 CASTS
7	BIO #11	0012	0037			13°31' 60°39'			SURFACE TOW
7	SED SAMPLE	0051	0310			13°31' 60°39'			CENTRIFUGE SURFACE SAMPLE
7	ISOTOPE A-M - 4U	0100	0130			13°31' 60°39'			190 L. AND 16 L. SURFACE SAMPLES TAKEN
7	PROFILING	0351	0542						SHOOTING 1/2 LB FLOATERS
8			0342						
8	HYDRO 17	0422	0800	1512	1526	13°46' 61°20'			22 BOTTLES IN 2 CASTS
8	BIO #12	0608	0625			13°46' 61°20'			SURFACE TOW (15 MIN.)
8	PROFILING	0838	0920						
8	HYDRO 18	0925	1300	1378 AM		13°22.5' 61°15'			22 BOTTLES IN 2 CASTS
8	BIO #13	1305	1350			13°22.5' 61°15'			9 MIN VERTICAL, 285 - OM. AND 20 MIN SURFACE.
8	ISOTOPE STH-5	1400	1510			13°22.5' 61°15'			165 L. AND 16 L. FROM 500 FMS. (WATER DBL.)
8	SED SAMPLE #2					13°22.5' 61°15'			CENTRIFUGE SAMPLE FROM 500 FMS.
8	PROFILING	1523							SHOOTING 1/2 LB FLOATERS
9	"		0136						STOPPED - EEL MALFUNCTION
9	"	0320	0600						RESUME USING SPARKER EEL.
9	CORE #5	0640	0851	1220	1314	13°01' 63°46'			PAGE TO MED GREEN LOUITE
9	ISOTOPE GPa-60	0640	0851			13°01' 63°46'			155 L AND 16 L. FROM 1225 FMS.
9	SED SAMPLE #3	0650	0829			13°01' 63°46'			CENTRIFUGE FROM 1225 FMS.

9 SEPT CAMERA 5

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CRUISE N° 7

CRUISE LEG 3 From MARTINIQUE To ST. THOMAS

TIME ZONE \_\_\_\_\_

1963 Date	STATION and N°	TIME		SOUNDING		POSITION		LOG	REMARKS
		Start	End	Start	End	Lat.	Long.		
9	BIO #14	0755	0810			13°01'	63°46'		11 MIN VERTICAL FROM 300 M.
9	PROFILING	1210	1529					94743	SHOOTING 1/2 LB FLOATERS
9	BOOY #3	1700	2145	1815 FM		13°10.7'	64°40.5'		PLACED TOROID BODY WITH 6 CURRENT METERS.
9	PROFILING	2353						9486	SHOOTING 1/2 LB FLOATERS
10	"		0511						
10	PROFILING	0841	0904						USING SPARKER EEL + 1/2 LB FLOATERS
10	PROFILING	0904	1340					9604	SWITCH EELS
10	HYDRO 19	1435	1830	2035 FM		14°38'	64°42'		22 NANSEN BOTTLES IN 2 CASTS
10	BOOY #4	1900	2225	2045 FM		14°45'	64°40'		PLACED TOROID BODY WITH 6 CURRENT METERS
11	PROFILING	0053	0904						SHOOTING 1/2 LB FLOATERS
11	HYDRO 20	0939	1345	1962 FM		14°29.5'	64°41.5'		22 NANSEN BOTTLES IN 2 CASTS
11	BIO #15	1355	1415			14°29.5'	64°41.5'		16 MIN. VERTICAL FROM 300 M
11	PROFILING	1426	2249						SHOOTING 1/2 LB FLOATERS
11	CORE 7	2332	0300	1721	1750	13°21'	64°19.5'		PALE TO MED. GREEN LUTITES
11	SED. SAMPLE #4	0310				13°21'	64°19.5'		CENTRIFUGE SAMPLE FROM 400 FATHOMS
11	ISOTOPE 7pa + 7u	0300				13°21'	64°19.5'		165 L AND 16 L SAMPLE FROM 400 FATHOMS
12	PROFILING	1354	0807					9791	SHOOTING 1/2 LB. FLOATERS
12	HYDRO 21	0852	1300	1821 FM		12°51.5'	64°40.5'		26 BOTTLES IN 2 CASTS.
12	DROGUE	1836							PARACHUTE AT 800 METERS
14	#9		0915						
12	DROGUE	1836							
14	#10		1015						

AREA OF  
BOOY #  
5

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CRUISE N° 7

CRUISE LEG 3 From MARTINIQUE To ST. THOMAS

TIME ZONE

1945 Date	STATION and N°	TIME		SOUNDING		POSITION		LOG	REMARKS
		Start	End	Start	End	N. Lat.	W. Long.		
SEPT 12	DROGUE	1836							PARACHUTE AT SURFACE
14	# 11		0255						
14	DROGUE	1900							PARACHUTE AT 2500 M.
14	# 12		0820						
14	DROGUE	1900							PARACHUTE AT 1250 M.
14	# 13		0845						
13	BIO # 16	1400	1430			13°10.5'	64°40.5'		B.P.S. TOW (500m-1000m)
14	BIO # 17	1155	1205			13°11'	64°40'		VERTICAL FROM 300M.
14	HYDRO 22	1210	1500	1820 FM		13°11'	64°40'		26 BOTTLES - 2 CASTS
14	SED. SAMPLE # 5	1254	1339			13°11'	64°40'		CENTRIFUGE SAMPLE FROM SURFACE
15	HYDRO 23	1250	1610	1860 FM		13°30'	64°40'		23 BOTTLES IN 2 CASTS
15	SED. SAMPLE # 6	1320	1406			13°30'	64°40'		CENTRIFUGE SAMPLE FROM SURFACE
16	RECOVERY BOOY 3	0945	1245			13°10.7'	64°40.5'		TOOK BOOY ABOARD AND PULLED UP AREA
16	PROFILING	1315	1650					0143	SHOOT 1/2 Lb FLOATERS
16	BIO # 18	1720	1730			13°55.5'	64°36'		VERTICAL TOW (300M TO SURF)
16	HYDRO 24	1735	2045	1864	1866 FM	13°55.5'	64°36'		23 BOTTLES IN 2 CASTS
16	SED. # 7	1737	1815			13°55.5'	64°36'		CENTRIFUGE SURFACE SAMPLE
16	PROFILING	2055	2223						1/2 Lb BLOCKS - FLOATERS

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CRUISE N° 7

CRUISE LEG<sup>3</sup> From MAETNIQUE To ST. THOMAS

TIME ZONE \_\_\_\_\_

1963 Date	STATION and N°	TIME		SOUNDING		POSITION		LOG	REMARKS
		Start	End	Start	End	N. Lat.	W. Long.		
SEPT 16	HYDRO	2250		2017		14° 14'	64° 40'		23 NANSEN BOTTLES IN 2 CASTS
17	# 25		0300	1938					
17	ISOTOPE 8th - 8u		0130			14° 14'	64° 40'		180L AND 16L SURFACE SAMPLES
17	PROFILING	0417	0544						1/2 lb FLOATERS
17	BOAT RECOVERY	0640	1100						TOOK IN BOAT AND ARRAY USING CORE WINCH
17	PROFILING	1107	1213						1/2 lb FLOATERS
17	BIO #19	1258	1310			15° 05'	64° 41'		<del>23 BOTTLES</del> VERTICAL, 300M
17	HYDRO 26	1325	1730	2050	2036	15° 05'	64° 41'		23 BOTTLES 2 CASTS
17	SED. SAMPLE # 8	1355	1452			15° 05'	64° 41'		CENTRIFUGE SURF SAMPLE
17	METER (BOTTOM)	1755	1945	2045		15° 05'	64° 41'		THORNDYKE PHOTO METER USED ON BOTTOM
17	PROFILING	2014						1296	1/2 lb FLOATERS USING #2 EEL
18			0956					1380	
18	ANCHOR	1330		960 FM		17° 36.7'	65° 15.4'		MADE 3 DOUBLE LOWERINGS WITH ELECTRIC METER
19	# 7		0900						USING FILM METER ALONGSIDE
18	HYDRO 27	1632	1915	942 FM		17° 36.7'	65° 15.4'		17 BOTTLES IN 2 CASTS
18	DEOGUE	1830				NEAR HYDRO			PUT OVER DEOGUE AT HYDRO STA, POSITN.
19	# 14		0800			STATION			WHILE ANCHORED - SURFACE PARACHUTE
19	BOTTOM METER	0002	0200	950 FM		17° 36.7'	65° 15.4'		THORNDYKE BOTTOM METER AT ANCHOR STA
19	SED. SAMPLE # 9	0931	1024			17° 36.7'	65° 15.4'		CENTRIFUGE SAMPLE FROM 400 FMS.
19	ISOTOPE 9th, 10th, 9u	0930	1010			17° 36.7'	65° 15.4'		LARGE VOL WATER SAMPLER USED AT 400 FMS - GOT 170 L AND 16L SAMPLES.

R. Gerard  
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PALISADES

CRUISE N° 7

CRUISE LEG<sup>7</sup> From MARTINIQUE To ST. THOMAS

TIME ZONE \_\_\_\_\_

[illegible]

R. Gerson  
Chief Scientist

## SCIENTIFIC

## LOG

CONRAD-7 Log

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Name St. Thomas - San Juan

No. Experiment No.

Instructor Date

CUR 42

Station No. #	Date	Time over	Time Surface	Lat.	Long.	Remarks (include sounding)
CAMERA STA. #6	SEPT. 30 1963	1147	1442	<del>14°09N</del> 14°11N	<del>68°35W</del> 68°08W	10 HITS - 6½ PRINTS WIRE & 45° AZIM 90° CSE. 350° P.D.R. DEPTH 2506
T-Grad #2	Sept 27 1963	2017		<del>14°N</del> 14°01N	<del>62°14W</del> 62°13W	Four probes on, Three worked. Gradient looks low
T-Grad #2	Sept 28 1963	1424		13°06N	<del>63°14W</del> 63°09W	4 probes on, lower 3 went into mud
T-Grad #3	Sept 29 1963	1310		12°34N	<del>66°15W</del> 66°18W	Six probes on, lower 3 went in
T-Grad #4	Oct 1 1963	1224		<del>13°54N</del> 13°59N	<del>71°51W</del> 71°43W	Six probes on, lower 3 went in
core No. 8	Sept 27 1963	1131	1304	14°56N	62°10W	core did not trigger 45 cm of core in pipe pale-medium gray green silty, lutite 1459 fm
core No. 9	Sept. 27 1963	2017	2205	<del>14°N</del> 14°01N	<del>62°14W</del> 62°13W	Tube bent slightly - extremely fluid core of lutite, silt and silt/clay 1470 to 1584 fm
CUT No. 10 -	Sept 28 1963	1423	1505	13°06N	<del>63°14W</del> 63°09W	Tube bent about 30°. predominately lutite with some intermixed silt.
CUT No. 11	Sept 29 1963	1309	1517	12°34N	<del>66°15W</del> 66°18W	57 ft well, com- pacted lutite. 2444 fm