USGS DREDGE LOG

Depth Interval 3140-2500

Julian Date 304

Cruise I.D. F11-90-CP

Local Date (m/d/y) 10-31-90

Station No. 13

Chief Scientist Hein/Ahn

Dredge No. 15

Tech on Watch Walter

	On Station	Dredge on Btm	Dredge off btm	Off Station
GMT	0611	0711	1200	1825
LATITUDE	9°10.21	09 10.25	9 09.88	09° 09.46 N
LONGITUDE	141 34.33	141 34.21	141 33.79	141° 33.84 E
WATER DEPTH	3245	3140	2400	1900

Site Description and Target : Very steep north facing slope - this dredge starts at the base. Got caught 3 times trying to hold position and reel wire in; wire slipped off each time

OPERATION*	GMT	DEPTH (m)	WIRE OUT (m)	TENSION	HDG/SPD	COMMENTS
On bottom	0711	3140/3240	3140			
Small Bites?	737	2800	3800m			600 m along
A couple Bites?	740	2550, 2795	3800	2.15		Wire catching?
Pulling ship around so we can bring wire in	800	2100, 2400	3800			Going to pull in wire
	~~08~~					to about 2800m
Bring in wire in	0806		3800			Holding position
Bite	0808	2100 2400		2.3		
Very small bites	0811			2.2-2.4		Consistently
Bite	0813		3600	2.5		
"	0815			2.6		
	0816		3535	2.8		
	0817		3506	2.9		
	0819		3467	2.9		
Lung up	0820	2115	2400			took up to 5.1
Redrive off	0834		3321	4.5		
[illegible]	0851	2250	2914			
Scoring up	0855	2400?	2800			Stopped taking wire in
Bites	0924		2780	2.7		Reeling wire in

*on/off bottom, bites, etc.

Holding position

OTHER COMMENTS:

12,089,529
10 497600
1 591 929

OPERATION*	GMT	DEPTH (m)	WIRE OUT (m)	TENSION	HDG/SPD	COMMENTS
Bite	926	1750	2755	3.0		Reeling in
Hung up	928	1750	2740			Tugging on it up to 5.9
Backing down	931					Taking in wire
6.1 pull	947	2075	2609			6.1 highest pull so far
Fell off	1005	2425?	2560			tension dropped way down
	1008		2504			but also moving toward it
Paying out scope	1009	2290?				to 2800 m
Scope out	1015	2500?	2801			
Hung	1050	1750?	2780	>5.75		
~~[illegible]~~	~~[illegible]~~			~~5.~~		
Broke off	1105	1870?	2722	5.15		
Bite	1106		"	4.89		
Bite	1109		"	3.0, 2.7		Hauling in
Bite	1110			3.1		
	1110		2715	5.0		
	1111		2710	3.8		
backing down { Hung up	1114		2670			Pulled up to 6T
Still hung	1123		2584			" " "

OPERATION*	GMT	DEPTH (m)	WIRE OUT (m)	TENSION	HDG/SPD	COMMENTS
Off bottom	1200	2400	2300			

*on/off bottom, bites, etc.

OTHER COMMENTS:

USGS DREDGE LOG

Depth Interval 1450 - 1385

Julian Date 304

Cruise I.D. FII - 90 - CP

Local Date (m/d/y) Nov 1 1990

Station No. 13

Chief Scientist Hein/Ahn

Dredge No. D16

Tech on Watch Rideout

	On Station	Dredge on Btm	Dredge off btm	Off Station
GMT	0611	1408	1519	1825
LATITUDE	09° 10.21	09°09.16	09°09.5	09°09.46 N
LONGITUDE	141°34.33	141'34.03	141° 33.66	141°33.84 E
WATER DEPTH	3245	1450	1380	1900

Site Description and Target : YAP G a shallow Water Dredge 1500 up to 1300

OPERATION*	GMT	DEPTH (m)	WIRE OUT (m)	TENSION	HDG/SPD	COMMENTS
IN WATER	1337	1360				
ON BOTTOM	1408	1450	1550			steep slope dredge must be
—	—	—	—	—	—	trailing behind
Scope Out	1418	1370	1960			Full scope Out
Starting to Dredge	1432	1300				
Bite	1433	1300		2.0		
Bites	1434			2.0, 2.7,		
Bite	1435			3.0		
Hung Up	1436		2200	8.0		
	1443		1970	3.0		Broke Off?
Bite	1453		1970	3.25		
	1453					
Bite	1455			7.0		
	1456			7.0		QUICK RELEASE
			K680			ANCHORED
	1505			5-7		
	1510		1800	5.5		BITE
	1513		1730	4.0		STEADY

*on/off bottom, bites, etc.

OTHER COMMENTS:

OPERATION*	GMT	DEPTH (m)	WIRE OUT (m)	TENSION	HDG/SPD	COMMENTS
		1360	1680	7 → 4.5		SHARP RELEASE
OFF BOTTOM	1519	1385	1460			OFF BOTTOM
ON DECK	1548					

OPERATION*	GMT	DEPTH (m)	WIRE OUT (m)	TENSION	HDG/SPD	COMMENTS

*on/off bottom, bites, etc.

OTHER COMMENTS:

USGS DREDGE LOG

Depth Interval 2330-2050

Julian Date 304/305

Cruise I.D. F11-90-Ct

Local Date (m/d/y) Nov 4, 1990

Station No. 14

Chief Scientist Heim Ann

Dredge No. D17

Tech on Watch Rideout/Olsen

	On Station	Dredge on Btm	Dredge off btm	Off Station
GMT	2300	2353	0410	305/0940
LATITUDE	08° 24.9 N	8° 24.70	8 24.82	08° 25.46 N
LONGITUDE	141° 49.01E	141° 49.02	141 48.97	
WATER DEPTH	~2000	2330	1980	

Site Description and Target : Yap H Steep Upper Slope of S.W. Side Seamount

OPERATION*	GMT	DEPTH (m)	WIRE OUT (m)	TENSION	HDG/SPD	COMMENTS
In Water	2308	2400	—			
On Bottom	2353	[illegible]	2370			
Dredging Begins	0023		2720			
Bite	0027	1700-2000		2.5		
Bite	0028	1700-2000		2.5		
Bite	0032	1700-2000		3.0		
Bite	0039	1700-2000		2.5, 2.5, 2.5, 2.5		
Hung Up	0041	1730-2000				
Broke off	0056			7.3		
Bite	0057			3.0, 2.2		
Bite	0059	1775		3.0-4.0		
Hung	0100	1730	2760	3.0-5-7.07		
still Hung	0115	1730	2781	7.4		
" "	0129	1700	2810	7.5		
" "	0138		2830	7.68		
Backing down	0138					Reeling in line
Still pulling	0205					Downslope of the bag
Broke off	0208	2300	2487	4.8		Moving back up slope

*on/off bottom, bites, etc.

OTHER COMMENTS:

OPERATION*	GMT	DEPTH (m)	WIRE OUT (m)	TENSION	HDG/SPD	COMMENTS
Paying out scope	0220	2000	2487	—		moving up line, dredge behind
0220 along ← Ash thinks we're	0238		2700			pulling out the scope
Bite	0240	1800	2700	2.2		
	241			2.1, 2.1		
	243			2.2		
	245			2.2		
	247			3.6		Good one!
Hung up			2720			Up to 7.3 tension
Going to back down	0259	1700	2779	A lot		up to 7.3, reeling in
	0339		2550	4.50		
	0342		2505	3.15		
Off bottom	0410	1980	2000	—		

OPERATION*	GMT	DEPTH (m)	WIRE OUT (m)	TENSION	HDG/SPD	COMMENTS

*on/off bottom, bites, etc.

OTHER COMMENTS:

USGS DREDGE LOG

Depth Interval 2950-2600m

Julian Date 305

Cruise I.D. F11-90-CP

Local Date (m/d/y) 11/1/90

Station No. 14

Chief Scientist Hein/Ahn

Dredge No. D18

Tech on Watch Walter (Conan)

	On Station	Dredge on Btm	Dredge off btm	Off Station
GMT	304/2300	0618	0847	305/0940
LATITUDE	08° 24.9 N	8° 24.04	8° 24.38	8 25.40
LONGITUDE	141° 49.01E	141 48.28	141° 48.10	141 47.70
WATER DEPTH	~2850 m.	2950	2800	1800m

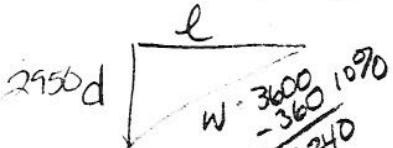
Site Description and Target : Yap H - further down slope than last dredge

OPERATION*	GMT	DEPTH (m)	WIRE OUT (m)	TENSION	HDG/SPD	COMMENTS
Dredge in H_2O	0515	3000?				
On bottom	0618	2950	3270			Letting out scope/moving up hill
Scope out	0625	2850	3600			
Bite	0650	2260		2.9		1095 along line
"	0651			3.1, 2.9		
"	0655			2.1-2.5		Continuously only record is over 2.5
"	0656			2.6 2.6		
"	0701	2575		3.0, 3.8		
"	0705	2525		2.84, 3.15	4.0	Broke off
"	0710	2520		4.03, 72		
"	0713			5.3, 4.17	3.56	
"	0717			5.90		
"	0725	1875		3.12, 3.84		
"	0729	1850		5.3		
Hung	0730		3614	6.0-8.25		Pay out 11m then pull in
Backing up	0712					
	0936		3120	6.1		
On bottom	0944	2800	300			

*on/off bottom, bites, etc.

OTHER COMMENTS:

If bag stayed where we dropped it,



10,497,600
8702500
1795100 l^2
l = 1340

USGS DREDGE LOG

Depth Interval 3020 - 2850 | Julian Date 305

Cruise I.D. F11-90-CP | Local Date (m/d/y) 11/02/90

Station No. 15 | Chief Scientist Heirtzler/Ahn

Dredge No. D-19 | Tech on Watch Rideout

	On Station	Dredge on Btm	Dredge off btm	Off Station
GMT	2011	2118	306/0000	0100
LATITUDE	06° 35.95	06°35.66'	06°36.20	6'36.52
LONGITUDE	142° 16.48	142° 16.91'	142°17.72	142 18.05
WATER DEPTH	3050	3050	2650	2460

Site Description and Target : YAP I; south western slope, put dredge down on flat (sediment?) at base of slope

OPERATION*	GMT	DEPTH (m)	WIRE OUT (m)	TENSION	HDG/SPD	COMMENTS
In Water	2022	3050				
On Bottom	2118	3050	3022			
LG 600 Pay Out Fully	2130	3050	3600			
LG 1000	2155	3050				Up 0.5 From Ave
	2159	2820		2.0		steady Pull
Bite	2205	2810		2.5		
Bites	2207	2800		2.3, 2.3,	2.3, 2.3	
Bites	2210	2800		2.35, 2.35		
Pulling in 100m	2239	2350				
	2243		3525	2.1-2.3		STEADY TENSION
	2249	2350	"	3.0		BITE
	2250	"	"	3.4		BITE
	2250	2330		5.8-		SHARP RELEASE
	2252			3.9		" "
	2255			3.6		" "
	2257			3.7		BITE
	2259	2250		4.2, 3.4, 3.2, 3.75,		BITES
	2301		3562	4.5, 5.0,		

*on/off bottom, bites, etc.

OTHER COMMENTS:

Bottom very visible at Beginning; on upslope it smudges out over about a 1000 meter spread, which then became a hard echo at about 2500 m

OPERATION*	GMT	DEPTH (m)	WIRE OUT (m)	TENSION	HDG/SPD	COMMENTS
	2305	2230	3546	4.0, 5.0, 4.7		HARD BITES
BITES	2312			3.5-5.4		STARTING TO PULL IN WIRE
GRABBING	2314	2235	3527	4.0-5.0		SLOWING SHIP
INTO SLOPE	2318	2235	3511	4.5, 5.0, 6.0, 6.3		ANCHORING DRAGGER ON + OFF
	2324	2225	3500	5.0, 5.5		BACKING OFF SHIP
	2327	2225		4.3		HOLDING STEADY TENSION
	2332	2260	3320	4.5		" " "
	2338	2350	3152	4.5		" " "
	2346	2470	2970	5.0		" " "
	2350	2520	2914	5-6		WELL HUNG!
	2352	2580	2880	"		
	2357	2650	2800	"		
	0000	2650	2820	2.5		OFF BOTTOM

OPERATION*	GMT	DEPTH (m)	WIRE OUT (m)	TENSION	HDG/SPD	COMMENTS

*on/off bottom, bites, etc.

OTHER COMMENTS:

USGS DREDGE LOG

Depth Interval 2900-2450 | Julian Date 307

Cruise I.D. FI1-90-CP | Local Date (m/d/y) 11-3-90

Station No. 16 | Chief Scientist Hein/Ahn

Dredge No. D20 | Tech on Watch Walter

LOST BAG

	On Station	Dredge on Btm	Dredge ~~off btm~~ broke off	Off Station
GMT		0751	0927	307/2205
LATITUDE		6 09.50	6 11.3	06° 11.05 N
LONGITUDE		144 57.54	144 58.1	144° 58.90 E
WATER DEPTH		2930	2000	1660

Site Description and Target : Yap J South facing slope

Constant wire out ~1.85

OPERATION*	GMT	DEPTH (m)	WIRE OUT (m)	TENSION	HDG/SPD	COMMENTS
Dredge in H2O	0655	2925				
On Bottom	0751	2930	2910			Letting out scope
Scope load	0819	2930	3550			Moving up line
Tension up start	0835		3556			Starting to tension
Bite	0849	2400?		2.3		
Bite	904	2200	3556	2.15		Taking in wire
Hung up	916	2050	3283	7.3		Broke off, taking in
Hung up	919		3259	7.4		Broke off 920 wire
Bite	922	2050	3230	4.4		
Hung up	923		3210	7.5		Broke off 925
Bag broke off	927	2000				
Wire is in	1035					Weak link broke

*on/off bottom, bites, etc.

OTHER COMMENTS:

1274

2930

3550 - 10% - 355 = 3195

10208025
8584900
1623100 - 1274

USGS DREDGE LOG

Depth Interval 2800 – 2780

Cruise I.D. F11-90-CP

Station No. 16

Dredge No. D21

Julian Date 307

Local Date (m/d/y) 11/3/90

Chief Scientist Hein/Ahn

Tech on Watch Walter/RANSOME

	On Station	Dredge on Btm	Dredge off btm	Off Station
GMT		1237	1510	307/2205
LATITUDE		6 09.62	6' 09.96'	06°11.05 N
LONGITUDE		144 57.83	144' 58.03'	144°58.90 E
WATER DEPTH		2910	2700	1660

Site Description and Target : YAP J

OPERATION*	GMT	DEPTH (m)	WIRE OUT (m)	TENSION	HDG/SPD	COMMENTS
Bag in the water	1143	2930				
On bottom	1237	2910	2884			
Scope out	1248	2910	3500	1.7-1.9		
SCOPE PULLED IN	1328	2400	3500	2-2.8		TENSION SLOWLY BUILDING
	1333	2380	3500	2.3		SHARP BITE
	1335	2300	3500	"		NIBBLES
	1343	2260	3500	2-2.3		SOFT BOUNCES, NO BITES
	1357	1950	3500	2.2-2.4		NIBBLES AGAIN
	1402	1920	3500	3.0-3.2		STARTING TO DIG IN
	1405	1900	3500	3.7-4.2		BETTER BITE NOW
	1407	"	"	6.1-7.0		WORKING HIGHER
	1408	"	"	"		STUCK!
	1412	1880	3530	"		WELL HUNG!
	1414	1880	3480	"		YANKED IT GOOD! GROAN
	1417		3340			BACKING DOWN SHIP-TAKING IN SLACK
ANCHORED	1425		3300			STILL BACKING DOWN
	1438		3100	4.5-5.0		PULLING IN SLACK - STILL STUCK

*on/off bottom, bites, etc.

OTHER COMMENTS:

OPERATION*	GMT	DEPTH (m)	WIRE OUT (m)	TENSION	HDG/SPD	COMMENTS
STILL HUNG UP	1443	2055	3000			
	1450	2300	2900	HOLDING AT 4.5		PULLING IN SLACK WIRE
	1454	2500	2830			
HUNG	1501	2550	HOLDING AT 2828			REPOSITIONING SHIP
	1509	2700	2800	4.5		PICKING UP SLACK AGAIN
	1510	2700	2780	4.7		OFF BOTTOM

OPERATION*	GMT	DEPTH (m)	WIRE OUT (m)	TENSION	HDG/SPD	COMMENTS

*on/off bottom, bites, etc.

OTHER COMMENTS:

USGS DREDGE LOG

Depth Interval 2550 – 2100

Julian Date 307

Cruise I.D. FIL-90-CP

Local Date (m/d/y) 11-4-90

Station No.

Chief Scientist Hein / Ahn

Dredge No. D22

Tech on Watch Rideout

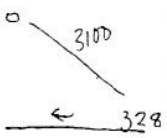
	On Station	Dredge on Btm	Dredge off btm	Off Station
GMT		1847	2125	307/2205
LATITUDE		06° 10.23′	06° 11.14′	06° 11.05 N
LONGITUDE		144° 57.74	144° 58.69′	144° 58.90 E
WATER DEPTH		2580	1800	1660

Site Description and Target : Higher up slope From D21

OPERATION*	GMT	DEPTH (m)	WIRE OUT (m)	TENSION	HDG/SPD	COMMENTS
IN WATER	1630	2570				
	1650				Winch	Wire Jumped Block Smoking
	1710		670m	Pulling	in to fix axle on winch block	
Wire sawed through axle on block. Will Replace axle and try again.						
IN WATER-2	1757	2920				
On Bottom	1847	2580	2590			
ALO 540 Full Scoop Out	1859	2500	3100			
ALO 860 Slack Out	1910		3100			
	1920	2000	3100	1.9		scraping
Bite	1922			2.27		
	1924	2020		2.3		
	1925	2020		3.1		
	1926	2015		2.6		
Hung Up	1928	2000	3130	Up to 6.0		paying out at each 6 ton pull
Backing Down		2140	3000	Up to 6.4		
		2340	2900			
Off The Snag	1953	2450	2820	3.25		Come Off or Broke Off
ALO 592 Back Up line	2000	2445				

*on/off bottom, bites, etc.

OTHER COMMENTS:



Yet another Dredge with a Bottom zone rather than a firm echo.

OPERATION*	GMT	DEPTH (m)	WIRE OUT (m)	TENSION	HDG/SPD	COMMENTS
Bite	2008	2440	2820	3.0		
Bite	2010	2420		3.0		
	2014	2400		2.3,		clearing for soft mud?
Bite	2020	2250		5.0		
Bite	2034	2000		4.2		
Bite	2038	1970		3.0		
Bite	2039	1960		4.2		
~ 2HRS on BOTTOM	2049	1890		Stopping,	at 1900M	Going to Pull in Wire
Bite	2052	1840		2.5		
Hung Up	2107	1840	2300	6.4		
Broke	2110	1840		6.8		
Bite	2110			3.0		
Bite	2111			4.07		
Bite	2111		2260	3.7		
Bite	〃			3.85		
Bite	2111			5.00		
Bite	〃		2250	3.7		
Bite	〃			3.3, 3.3,		

OPERATION*	GMT	DEPTH (m)	WIRE OUT (m)	TENSION	HDG/SPD	COMMENTS
Bite	2112			6.2		
Bite	2113		2228	4.07,	3.57	
Comment —	2114	1830	2200	—	—	Wire Out
Bite	2115	1830	2185	3.3		
Comment —	2118	1820	2100	—		Wire Out
Comment	2121	1820	2000	—		Wire Out
〃	2124	1900	1900	—		〃
	2125	1800	1870 ?			

*on/off bottom, bites, etc.

OTHER COMMENTS:

USGS DREDGE LOG

Depth Interval 2450-2200 Julian Date 308

Cruise I.D. F11-90-CP Local Date (m/d/y) 11-5-90

Station No. 17 Chief Scientist Hein/Ahn

Dredge No. 23 Tech on Watch Rideout

	On Station	Dredge on Btm	Dredge off btm	Off Station
GMT	1948	2249	0234	0310
LATITUDE	07 18.6	07° 17.74N	0719.5	07 19.2
LONGITUDE	148 16.0	148° 16.02E	148 16.4	148 16.6
WATER DEPTH		2460	2000	

Site Description and Target : Chuuk B 2500 to 2000 m

OPERATION*	GMT	DEPTH (m)	WIRE OUT (m)	TENSION	HDG/SPD	COMMENTS
In Water	2203	2450				
On Bottom	2249	2460	2435			
Full Scope	2259	2460	2950			
780 Starting to	Dredge	2320 GMT		1.6 Ave		
Tension Up	2338	2315		1.8 - 2.0 Ave		
Tension Up	2345	2315		2.5 Ave		
Hung Up	2347					
Bite Broke	2349	2280		5.2		
Nibbles	0022	2250		2.0's	— since the large bite nibbling along	
Bite	0023	2250		2.2	back to nibbles	
Bite	0030	2265		2.2		
Bite	0031	2265		2.3		
Bite	0032	2265		2.42,	2.32, 2.35	
Bite	0035	2265		2.5,	3.1, 3.0, 2.1	
Bites	0039	2265		3.0,		
Hung Up/Bite	0041	2265		3.7 and	Climbing	Broke at 4.2
Bite	0043	2265		2.4		
Bite	0044	2265		3.0		

*on/off bottom, bites, etc.

OTHER COMMENTS:

OPERATION*	GMT	DEPTH (m)	WIRE OUT (m)	TENSION	HDG/SPD	COMMENTS
Bite	0048	2265	2950	2.4		
Bite	0055	2230	2950	2.4		
Bite	0123	2140		2.36, 2.30, 2.31		
	0124			2.45, 2.37		
	0133	2125		2.40		
	0139	2105		2.5		
	0141			2.2		
	0150	2025	2950	2.7		Starting to reel in
	0151		2945	3.0		
	0152		2905	3.4		
	0154		2869	2.7		
off Bottom	0234	2000	1990			

OPERATION*	GMT	DEPTH (m)	WIRE OUT (m)	TENSION	HDG/SPD	COMMENTS

*on/off bottom, bites, etc.

OTHER COMMENTS:

USGS DREDGE LOG

Depth Interval 3120-3100 | Julian Date 312

Cruise I.D. F7-90-CP | Local Date (m/d/y) 11/8/90

Station No. 18 | Chief Scientist Hein/Ahn

Dredge No. 24 | Tech on Watch Walter

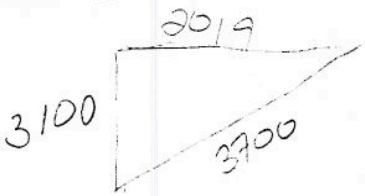
	On Station	Dredge on Btm	Dredge off btm	Off Station
GMT		0724	1048	1145
LATITUDE		5° 16.99	5 16.49	05° 15.82
LONGITUDE		158 17.48	158 17.16	158° 16.93
WATER DEPTH		3100	3120	

Site Description and Target : Steep slope ~~or~~ east facing from 3150 to ~~[illegible]~~ 2400m

OPERATION*	GMT	DEPTH (m)	WIRE OUT (m)	TENSION	HDG/SPD	COMMENTS
Over the side	530	~3100				on its way down
Pay out meter reset itself	610	~3100	~2400			Trying to fix it
Going down again	709					
on bottom	0724	3100?	~3130			paying out scope to 3700
Scope out	0734		3700			
Pulls ?	084					Pulls ~1.9 Prob not bites
Hangup	0942			1.80?		
Broke off	0942			2.82		
Bite	0945			2.38		
Bite	0948	2630		2.64		
	0955	2500		2.63		
	0957	2490		2.62		
Hung	1006	2410		3.60↑		
"	1011		3720	7.00		Pay out 20m at 7
Backing down	1014	2395	3720	up to 7.4		Still hung up - pulling
Finally broke off	1041	3170	3250	5.3		
off bottom	1048					

*on/off bottom, bites, etc.

OTHER COMMENTS:



13690000
9610000
4080000