DIVE SAMPLE LOG

DIVE DAY #1

DELTA LOG

POWELL SU2-388/DELTA
Holley/Wilbur/Milliman
BAHAMAS SHELF
May 13-20, 1985

Dive No: 1004 Date: 5/14 Time down: 13:31 Max Depth: 80'
Location: BIMINI Bahamas Time up: 13:47
Client: USGS/NURP Duration: 16 MIN
Purpose: Systems check Water Vis: 80'
Pilot: R. Slater Sea State: 0
Observer: Scott Stokes/NURP Recorder: D Slater
Remarks: 1st Dive: Systems Check
2 kt current interior sub temp 88°F

Dive No: 1005 Date: 5/14 Time down: 1555 Max Depth: 1004'
Location: BIMINI Time up: 17:23
Client: USGS Duration: 1:28
Purpose: Sampling/Ecology Water Vis: 100'
Pilot: R Slater Sea State: 0'
Observer: L. Shinn/USGS Recorder: D Slater
Remarks: Photo 002 - 027

Dive No: 1006 Date: 5/14 Time down: 18:14 Max Depth: 770'
Location: BIMINI Time up: 19:47
Client: USGS Duration: 1:33 MIN
Purpose: Sampling/Ecology Water Vis: 100'
Pilot: R. Slater Sea State: 0
Observer: Jude WILBER/WHOI Recorder: D. Slater
Remarks:
Trimix Photo 028-069

DIVE DAY #2

Dive No: 1007 Date: 5/15 Time down: 10:25 Max Depth: 640'
Location: BIMINI Time up: 12:37
Client: USGS/NURP Duration: 2:12
Purpose: Sampling/Ecology Water Vis: 100'
Pilot: R. Slater Sea State: 0
Observer: B. HALLEY/USGS Recorder: R. HOLLAR
Remarks: SED. SAMPLING
PHOTO 1-16 Interior Photo check. ft

1005

Gentle slope 30-35° on Bottom 16:00 500' 25° 43.36"
Change 570' to sediment cover 79° 19.28"

Current ripples # Transverse to slope 850' Steep Slope
Mud patches behind ripples Coarse Seds.
Rock & Ripples Current at depth 900' T 16:12
750' Sample in #1 460' Sample #4
620' SAMPLE BIN #3
LORAN
25° 43.5
79° 19.2

LAUNCH 25 48.08 LORANC
79 17.84
1818 250'
1823 700' ON BOTTOM
25 48.10
79 17.89
NO CURRENT
SOFT BOTTOM
1831 770' FLAT BOTTOM
LITTLE TO SEE
TAKING SAMPLE
25° 48.16'
79° 17.96'
1844 BIN #4 765' SAMPLE

1854 600' SAMPLE #1 bin 1
25° 47.99'
79° 17.83'
19:09 RISE 500'
19:11 480' SAMPLE #2 bin 2,
TOP OF DUMP BUMP 485
25° 47.95"
79° 17'.22"
1926 SAMPLE #3 BIN 3
25° 47'.88"
79° 17'.67"

420' 30°
30' BASE OF WALL

1025 LAUNCH PHOTO COUNT 0
25 51.72
79 16.57
1026 O² CHECK
1033 ON BOTTOM
563'
25° 51.79'
79° 16.39'
1057 SAMPLE 1007-1
25° 51.83'
79° 16.48'
640'
HEADING UPSLOPE
490'
1104 STEEPER SLOPE

1105 DUMP BUMP
DIDN'T GET
FIX
1115 DUMP BUMP
450'
25° 51.75'
79° 16.29'
1122 DUMP BUMP
460'
25° 51.47'
79° 16.30'
1130 452'
DUMP BUMP
25° 51.45'
79° 16.44'
PHOTO STOP/HAND HELD

1200 PHOTO SESS,
1155 CONT.
1204 SWALE,
355'
25° 51.53'
79° 16.32'
1210 WORKING UP
SLOPE
1219 370'
1228 ROCK SAMPLE
300'
25 51.66
79 16.17
1237 ON SURFACE

DELTA LOG

Dive No: 1008 Date: 5/15 Time down: 1350 Max Depth: 710'

Location: BIMINI Time up: 1500

Client: USGS/NURP Duration: 1:10

Purpose: Sampling/Recon/Geology Water Vis: 100'

Pilot: R. Slater Sea State: 0

Observer: J. Wilbur (WHOI) Recorder: D Slater

Remarks:
Photo 17-36 34?

Dive No: 1009 Date: 5/15 Time down: 16:00 Max Depth: 600'

Location: BIMINI Time up: 16:43

Client: USGS/NURP Duration: :43

Purpose: SAMPLING Geology Water Vis: 100'

Pilot: R. Slater Sea State: 0

Observer: ~~[illegible]~~ / B Halley Recorder: D Slater

Remarks: PHOTO 34-0 35-36?
37-45

Dive Day #3

Dive No: 1010 Date: 5/16 Time down: 0940 Max Depth: 772'

Location: BIMINI Time up: 1117

Client: USGS Duration: 1:47

Purpose: SAMPLING Geology Water Vis: 100'

Pilot: R Slater Sea State: 0

Observer: B Shinn Recorder: D Slater

24° 52' 1"
79° 11' 7"

Remarks:
photo 45- LAZER UTILIZED

Dive No: 1011 Date: 5/16 Time down: 1400 Max Depth: 910'

Location: BIMINI Time up: 1528

Client: USGS Duration: 1:28

Purpose: SAMPLING Geology Water Vis: 100'

Pilot: R. Slater Sea State: 0

Observer: J. Wilber (WHOI) Recorder: D Slater

Remarks:
Photo Seq #0-41
no time

1008 · CONOR Hydrophone ·

1400 650' on Bottom
14:03 710'
14:11 710' SAMPLING BIN #3
25° 54' 75"
79° 15' 21"
14:17 660'
14:22 660' SAMPLING BIN #4
25° 54' 74"
79° 15' 16"

14:38 590' SAMPLE BIN #1 Rocky Slope.
54'76"
15'10"

14:53 385' BIN #2
No Fix

1009.

1610 600'
26° 00.31'
79° 13.57'
GENERAL DIVE LOCATION

1619 26° 00.26'
79 13.50'
SAMPLING
495'
4 SAMPLES

1627 WORKING UP SLOPE
1637 400'
1638 350'
1639 300'
1641 SURFACING

BETA PACKAGE CHALKED-UP DIVE DAY #3. Photo Sea not firing

950 ON BOTTOM 772'
95 [redacted] 25° 17'.09" } SUSPECT
79 17.15" }

002 SAMPLE 1 BIN #1 D 740' SAT NAV 24° 57' 46"
79° 09' 74"

1017 700' Large Hole in Sediment Slope.
24° 56.69'
79° 10.96'
Deep 50' long 10' deep 10' across.

OFF ORANGE CAN
1011
24° 45.96
79 12.34.

1410 910' ON BOTTOM
1413 SAMPLING 900' IN BIN #2
24° 45.98'
79° 12.29'
1425 Tile Fish SPOTTED.
1429 750'

1022 Waiting for dust to settle
1030 SAMPLE 2 BIN 2 IN Hole. 5' below surface.
1035 MOVING BACKUP SLOPE.
1039 620'
1045 550'
1046 500' Fix Sample. BIN #3
24°56.63'
79°10.75.
11:00 425' Base of rocky slope no Bump.

1102
24° 56.43'
79° 10.53'
Sample in Claw (Rock)
1110 360'

1438 600' SAMPLE BIN #4
24°45.17
79°11.80'
1448 535'
1500 430' Top of BUMP SAMPLE IN BIN #3.
24°45.90'
79°11.73'
1506 465' TROUGH AT BASE OF ROCKY SLOPE. IN BIN #1
24°45.90'
79° 11.65'
1514 Start up Slope
1519 375'

Up @ 200'

DELTA LOG

Dive No: 1012 Date: 5/16 Time down: 1654 Max Depth: 960'

Location: Bimini Time up: 1842

Client: USGS/NURP Duration: 1:48

Purpose: Geology Sediment Survey Water Vis: 100'

Pilot: R. Slater Sea State: 0

Observer: B Halley Recorder: D Slater

Remarks:

PHOTO SEA 42

DIVE DAY #4

Dive No: 1013 Date: 5/17 Time down: 1045 Max Depth: 970'

Location: BIMINI (50 MILES OFF CUBA) Time up: 1237

Client: USGS/NURP Duration: 1:52

Purpose: Geology/SAMPLING Water Vis: 100'

Pilot: R. Slater Sea State: 1-2

Observer: J. Wilber Recorder: D SLATER

Remarks:

Photo Sea 0-'of CAMERA #1 Excellent Vis

Dive No: 1014 Date: 5/17 Time down: 1508 Max Depth: 620'

Location: Bimini Time up: 1800

Client: USGS Duration: 2:52

Purpose: Geology/Sampling Water Vis: 100'+

Pilot: R. Slater Sea State: 3

Observer: B Halley Recorder: D Slater

Remarks:

Photo Sea 68-94 Choppy Seas; Exc Vis.

DIVE DAY #5.

Dive No: 1015 Date: 5/18 Time down: 0847 Max Depth: 600'

Location: BIMINI Time up: 1000

Client: USGS/NURP Duration: 1:13

Purpose: SAMPLING GEOLOGY Water Vis: 100'

Pilot: R. SLATER Sea State: 0-1

Observer: KEN ~~PERNOSKIE~~ PAROLSKI Recorder: D SLATER

Remarks:

PHOTO SEA 94-98

1702 ON BOTTOM 772'
1706 800'
1710 890'
1715 960' SAMPLE BIN #3
24° 37.67'
79° 13.41'
1723 WORKING UP SLOPE
1732 840' MONITOR BATTERY DIED
1741 740' WORKING UP SLOPE
1751 SAMPLE, 600'
24° 37.44'
79° 13.07' BIN #

1754 WORKING UPSLOPE
1805 TOP OF BUMP
450'
24° 38.98'
79° 12.66'
1814 540' SAMPLE IN TROUGH IN BIN #2
~~24° 58.29'~~ SUSPECT 24° 36.96'
~~79° 19.29'~~ 79° 12.62' Good
1832 WORKING UP ROCK SLOPE
1836 360'
1842 SURFACE

1045 LAUNCH
Slight Current to N
1059 880' VISIBILITY Very Good EDDING LAUNCHED
1104 960' ON BOTTOM 23° 50.76'
1105 970' MAX DEPTH BIN 2 SAMPLE. 79° 06.21'
1122 820'
1134 580' 23° 50.80'
1147 510' TOP OF BUMP BIN #3 79° 05.96'
1157 580'
1213 SAMPLE BIN #1
23° 50.91'
79° 05.87'

1505 LAUNCH 23° 38.22'
1514 400' 79° 02.74'
1517 605'
1519 East up BUMP
1525 503' TOP of BUMP
1542 580' BOTTOM OF TROUGH
1546 RUNNING NORTH ALONG TROUGH 38.46 02.49
1602 620'
1603 500' 38.69 02.40 38.82 02.61

1632 550' sample (ROCK)
1634 23° 38.68'
79° 02.50'
1654 MOVING NORTH IN TROUGH
1705 SADDLE IN TROUGH 600'
23°51.53' BAD !!
79° 06.33'
1718 WORKING UP SLOPE. 600'
1723 530'
1726 450' 23° 39.27'
1730 79° 06.99'
1733 350'
1742 SURFACE

.09 ft on Track point. D. Pruitt

0850 ON BOTTOM 300' 23° 36.46'
0852 HEADED FURTHER DOWN 79° 01.86'
0855 560' LANDED IN TROUGH NICE SCARP SAMPLING
0930 HEADING EAST AND UP THE WALL.
0940 600'
1000 SURFACE.

DELTA LOG

Dive No: 1016 Date: 5/18 Time down: 1306 Max Depth: 725

Location: BIMINI Time up: 1442

Client: USGS/NURP Duration: 1:36

Purpose: Geological Surveying Water Vis: 100'

Pilot: R. SLATER Sea State: 0

Observer: B SHINN Recorder: D SLATER

Remarks: PHOTO [redacted] 99 - 109

WOE W SUB

Dive No: 1017 Date: 5/18 Time down: 1605 Max Depth: 680'

Location: BIMINI Time up: 1735

Client: USGS/NURP Duration: 1:30

Purpose: GEOLOGICAL SURVEYING Water Vis: 100'

Pilot: R. SLATER Sea State: 0

Observer: J. WILBER Recorder: D SLATER

Remarks:

PHOTO NO - 174

Dive No: 1018 Date: 5/18 Time down: 1754 Max Depth: 360'

Location: BIMINI Time up: _____

Client: USGS/NURP Duration: _____

Purpose: Geological Surveying Water Vis: 100'

Pilot: R. SLATER Sea State: 0

Observer: B. HALLEY Recorder: D SLATER

Remarks:

175-188 Rock Gathering

DIVE DAY #6

Dive No: 1019 Date: 5/19 Time down: 0831 Max Depth: 800'

Location: BIMINI Time up: 1029

Client: USGS/NURP Duration: 1:58

Purpose: Geological Surveying Water Vis: 100'+

Pilot: R SLATER Sea State: 0

Observer: B SHINN Recorder: D SLATER

Remarks:

PHOTOS NO 0 - 19

23 57.93 N
79° 08.06 W

1314 ON THE BOTTOM
725'
NO PICTURE ON MONITOR. CABLED INCORRECTLY - ALL
1320 OK. NOW
1321 SAMPLE BIN #1
23°58.14'
79°08.15'
720'
1333 600'

13:38 500'
13:45 ON BUMP
440'
SAMPLE BIN #2
23° 58.18'
79° 07.84'
1355 MOVING NORTH IN TROUGH
1403 BIN #3 23° 58.59'
79° 07.83'
420'
BARRIER ACROSS TROUGH

1411 SAMPLE 4
445'
23° 58.42'
79° 07.81'
1427 STARTING UPSLOPE
1429 ROCK SAMPLE
465'
23° 58.57'
79° 07.87'
1442 SURFACE

1615 ON BOTOM 740'
BIN #2 SAMPLE #1 1618
1625 680' SAMPLE #2 BIN #3
FROM TILE FISH BURROW
1637 580'
1644 24°07.89
79° 10.43
1648 490' on CREST BIN #4
1703 RUNNING ALONG TRUCH.
1706 IN TROUGH SAMPLING. BIN #1
520'

24 07.78'
79 10.62'
24.07.97'
79 10.37'
24° 07.06'
79° 10.41'

17:16 500'
17:25 400' SAMPLE IS IN CLAW

1800 360' ON BOTTOM
1812 250' SAMPLING ROCK
24° 08.40
79° 10.31
1828 SURFACE

DIVE 1019
0831 LAUNCH
24 24.98
79 13.02
0841 550'
O2 CHECK
0842 ON BOTTOM
720'
HEADING DEEPER
0846 SAMPLE BIN #1
800'
24 24.97
79 13.22
HEADING UPSLOPE

0855 740'
STRONG CURRENT TO SOUTH ≈ ½ KT
0904 630'
0914 SAMPLE BIN #2
530'
24°25.08'
79°13.02'
DOWN SLOPE SIDE OF BUMP
0920 TOP OF BUMP
480'
SAMPLE BIN #3
24°25.04'
79°12.93'

0929 MOVING NORTH IN TROUGH
0942 BIG PROMATORY
445'
244
BAD LORAN
0948 470' IN TROUGH MOVING NORTH
0955 SAMPLE BIN #4
445'
IN TROUGH
BAD LORAN
1001 24°25.43'
79°12.80'

1018 SAMPLE
240'
1029 SURFACE

DELTA LOG

Dive No: 1020 Date: 5/19 Time down: 1545 Max Depth: 846'

Location: BIMINI Time up: 1745

Client: USGS | NURP Duration: 2:00

Purpose: GEOLOGICAL SAMPLING Water Vis: 100'

Pilot: R SLATER Sea State: 0

Observer: J WILBER Recorder: D SLATER

Remarks:

PHOTOSEA 1-70

DIVE DAY #7

Dive No: 1021 Date: 5/20 Time down: 0815 Max Depth: 710'

Location: BIMINI Time up: 0909

Client: USGS | NURP Duration: 54 MIN

Purpose: GEOLOGICAL SAMPLING Water Vis: 100+

Pilot: R SLATER Sea State: 0

Observer: B HALLEY Recorder: D SLATER

Remarks:

PHOTOSEA 77-91

Dive No: 1022 Date: 5/20 Time down: 1020 Max Depth: 1000'

Location: BIMINI Time up: 1129

Client: USGS | NURP Duration: 1:09

Purpose: Geology Water Vis: 100+'

Pilot: R. SLATER Sea State: 0

Observer: J. WILBER Recorder: D SLATER

Remarks:

PHOTOSEA-98-151

Dive No: 1023 Date: 5/20 Time down: 1312 Max Depth: 800'

Location: BIMINI Time up: 1415

Client: USGS | NURP Duration: 103

Purpose: Ecology Water Vis: 100'+

Pilot: R SLATER Sea State: 0

Observer: J. WILBER Recorder: D SLATER

Remarks:

152-174

1557 840' ON BOTTOM
1600 BIN #4 SAMPLE #1 25° 05.4',
79° 10.8'

1610 820' RUNNING UP SLOPES
1611 800 BIG HOLE 15' ACROSS
1621 700' ANOTHER HOLE.
1627 680' BIN #2 SAMPLE #2
25° 05.08' SAMPLE 4' BELOW SURFACE
79° 10.53' W

1638 CONTINUING EAST
1644 550'
1647 500'
1649 NO BUMP.

PHOTO SEQ
20.21.1.
1 2 3

1652 420

1659 480' BIN #1
05.20
10.27

1709 440' UP ROCKY SLOPES.
1710 340'
CORE @ 340'
1714 290' SAMPLE ON LEDGE BIN #3. NO FIX

1728 235'
1741 80

0816 SUB UNDER.
0820 350'
0823 508' ROCKY SLOPES ON BOTTOM
0828 710' ON SEDIMENT SAMPLE BIN #3
25° 27.96',
79° 15.89',
0836 BACK UP ON ROCK 620'
0842 500'
0849 400'
0847 300' 28.00',
79° 15.82'
0850 150'
0854 SAMPLE 115' BIN #2

0904 60'

1034 1000' ON BOTTOM
25° 33.62',
79° 18.98'
1039 SAMPLE 1000' BIN #2.
25° 33.68'
79° 18.02'
MOVING UP SLOPE
1052 900'
LARGE BLOCK
25° 33.70' NO SAMPLE
79° 18.68'
1058 O2 CHECK
MOVING UPSLOPE

1108 693'
SAMPLE BIN #3
25° 33.75'
79° 18.92'
1112 650'
1121 275'
1123 160'
1125 120'
SAMPLE BIN #4
25° 33.86
79° 18.73'
1127 PERMISSION TO SURFACE
1129 SURFACE

1522 800' ON BOTTOM
1533 760' SAMPLE
1346 640' SAMPLE
1356 250' ON THE WALL

43.19'
19.52'

43.27'
19.15'

STRONG S CURRENT

DELTA LOG

Dive No: 1024 Date: 5/20 Time down: 1432 Max Depth: 520'

Location: BIMINI Time up: 1522

Client: USGS/NURP Duration: 50MIN

Purpose: RECON Water Vis: 100'+

Pilot: D PRATT Sea State: 0

Observer: JOHN MILLIMAN (WHOI) Recorder: D SLATER

Remarks:

Dive No: Date: Time down: Max Depth:

Location: Time up:

Client: Duration:

Purpose: Water Vis:

Pilot: Sea State:

Observer: Recorder:

Remarks:

Dive No: Date: Time down: Max Depth:

Location: Time up:

Client: Duration:

Purpose: Water Vis:

Pilot: Sea State:

Observer: Recorder:

Remarks:

Dive No: Date: Time down: Max Depth:

Location: Time up:

Client: Duration:

Purpose: Water Vis:

Pilot: Sea State:

Observer: Recorder:

Remarks:

#442 · 440' 25° 43.56
1446 520' 79° 19.05