104991

COASTAL AND MARINE SCIENCE AT THE WOODS HOLE FIELD CENTER (WHFC)

384 Woods Hole Rd., Quissett Campus, Woods Hole, MA 02543-1598

97027cor

CORE OPERATIONS AND PROCESSING LOG

SHIP AND CRUISE: AND97027

AREA: NY BIGHT

DATES: 7/4/97 - 7/12/97

CHIEF SCIENTIST: ALLISON - TAMU

CORE OPERATIONS AND PROCESSING LOG

Ship: Anderson

Cruise: 97027

Date: 7/5/97

Time:JD 186 / 1132 EDT Z

Latitude: 40° 33.948' N

Longitude: 73° 42.714' W

Core type: Vibracore

Station: 1

Depth: 40.5 ft m

Core barrel length: 20 ft m

Free-fall length: — m

Penetration: 50cm m

Recovered length: — m

Section #	Length (m)

Comments: Section 1, Ripple scour depressions. bottom seems to hard to penetrate. Seismic shows what might be outcrop. Grab sampler Retrieved medium course sand/gravel Video shows Rippled sand.

Processors:

CORE OPERATIONS AND PROCESSING LOG

Ship: Anderson

Cruise: 97027

Date: 7-5-97

Time:JD 186 , 1324 EDT Z

Latitude: 40 32.795 N

Longitude: 73 38.716 W

Core type: Vibracore

Station: 2

Depth: 40.8 ft m

Core barrel length: 30' m

Free-fall length: m

Penetration: m

Recovered length: 221 cm m

Section #	Length (m)
1	21 cm
2	2 Meters

Comments: ~~Station~~ Site 28 in pick list Station 2
Gravel in end. Video showed Longitudinal Bed forms
Bottomed out in shelly gravel

Processors:

CORE OPERATIONS AND PROCESSING LOG

Ship: Anderson

Cruise: 97027

Date: 7-5-97

Time:JD 186 / 19:06:34 Z

Latitude: 40°25.804 N

Longitude: 073°40.385 W

Core type: Vibracore

Station: 3

Depth: ~~78.9~~ 84.9 m

Core barrel length: m

Free-fall length: m

Penetration: m

Recovered length: 190 cm m

Section #	Length (m)

Comments: Station 18 on Pick list
No penetration Boundry Reached
Guide broke off and could not
core any further, Upper 90 cm
disturbed because core only half fell
laterally

Processors:

CORE OPERATIONS AND PROCESSING LOG

Ship: Anderson

Cruise: 97027

Date: 7/6/97

Time: JD 187 / 6:39:40 Z

Latitude: 40°17.255 N

Longitude: 073°34.648 W

Core type: Vibracore

Station: 4

Depth: 91.5 ft m

Core barrel length: 20ft m

Free-fall length: m

Penetration: m

Recovered length: 438cm m

Section #	Length (m)
1	38cm
2	2m
3	2m

Comments: Site is #24 on original pick
- upper ~1.5m of core migrated up tube.
- stood upright to repack, bottomed in marine shelly sand

Processors:

CORE OPERATIONS AND PROCESSING LOG

Ship: ANDERSON

Cruise: 97027

Date: 7-6-97

Time:JD 187 / 0825 EDT Z

Latitude: 40° 18.454 N

Longitude: 73° 31.689 W

Core type: Vibracore

Station: 5

Depth: 91.2 m

Core barrel length: 20ft m

Free-fall length: m

Penetration: m

Recovered length: 238cm m

Section #	Length (m)
1	38cm
2	2m

Comments: Sta. 29 in original pick Highly turbated Bottom / FLAT. Bottom came out Shell Hash Looks like Holocene

Processors:

CORE OPERATIONS AND PROCESSING LOG

Ship: ANDERSON

Cruise: 97027

Date: 7/6/97

Time:JD 187 / 0940 EDT Z

Latitude: 40° 19.353 N

Longitude: 73° 34.955 W

Core type: Vibracore

Station: 6

Depth: 91.6 ft m

Core barrel length: 20 ft m

Free-fall length: m

Penetration: m

Recovered length: 417 cm m

Section #	Length (m)
Sec 1	Top → 17cm
Sec 2	17 cm → 217 cm
Sec 3	217 cm → 417 cm +

Note: Sediment from the core catcher saved in Whirl-bag for Sta# 6

Comments: Station 27 in org. pick - have whirl pack of bottom last section only upper meter was sliced.

Processors:

CORE OPERATIONS AND PROCESSING LOG

Ship: ANDERSON

Cruise: 97027

Date: 7/6/97

Time:JD 187 / 12:17:48 Z

Latitude: 40° 21.344 N

Longitude: 073° 47.867 W

Core type: Vibracore

Station: 7

Depth: 140 m

Core barrel length: 350 m

Free-fall length: m

Penetration: m

Recovered length: 350 cm

Section #	Length (m)
1	150 cm
2	200 cm
whirl pack bag #3 section	

Comments: This was station #8 on original pick bottomed out in soft mud didn't reach the bottom material didn't penetrate because failed the hydrolic line in propellor

Processors:

CORE OPERATIONS AND PROCESSING LOG

Ship: Anderson

Cruise: 97027

Date: 7/7/97

Time:JD 188 / 1629 edt Z

Latitude: 40°31.211' N

Longitude: 73°46.093' W

Core type: Vibracore

Station: 8

Depth: 67 ft m

Core barrel length: 20 ft m

Free-fall length: — m

Penetration: m

Recovered length: 306 cm 108 cm m

Section #	Length (m)
1	106 cm
2	2 m

Comments: Site is Sta 30 of original pick
Some upcore slippage in upper 1 m
Bottomed in marine shell hash

Processors:

CORE OPERATIONS AND PROCESSING LOG

Ship: Anderson

Cruise: 97027

Date: 7-7-97

Time: JD 188 / 1804 edt Z

Latitude: 40 33.681 N

Longitude: 73 32.878 W

Core type: Vibracore

Station: 9 / Pick 31

Depth: 39.7 ft m

Core barrel length: 20 ft m

Free-fall length: m

Penetration: m

Recovered length: 50cm m

Section #	Length (m)
1	50 cm

Comments: have whirl pack → 30cm lost below barrel → below sand ran into shell hash - Broke core barrel

Processors:

CORE OPERATIONS AND PROCESSING LOG

Ship: Anderson

Cruise: 97027

Date: 7/8/97

Time: JD 189 / 0617 edt Z

Latitude: 40 25.665' N

Longitude: 73 38.908' W

Core type: Vibracore

Station: 10

Depth: 77 ft m

Core barrel length: m

Free-fall length: m

Penetration: m

Recovered length: 485cm m

Section #	Length (m)
1	85 cm
2	200 cm
3	200 cm

Comments: Station was pick #25
Some migration of upper meter

Processors:

CORE OPERATIONS AND PROCESSING LOG

Ship: Anderson

Cruise: 97027

Date: 7/8/97

Time:JD 189 / 07:46:06 Z

Latitude: 40° 22.951 N

Longitude: 073° 41.137 W

Core type: Vibracore

Station: 11

Depth: 84.0 m

Core barrel length: m

Free-fall length: m

Penetration: m

Recovered length: 453 m

Section #	Length (m)
catcher	
1	53 cm
2	200 cm
3	200 cm
catcher	

Comments: Station was pick #32
CORE Catch in Whirl Pack (Beach Pebble in bag)
Also surface in Whirlpak (sand)
Migration of upper 1.5 m

Processors:

* return

CORE OPERATIONS AND PROCESSING LOG

Ship: Anderson

Cruise: 97027

Date: 7/8/97

Time:JD 188 / 0852 edt Z

Latitude: 40 23.824 N

Longitude: 73 37.860 W

Core type: Vibracore

Station: 12

Depth: 70 ft m

Core barrel length: m

Free-fall length: m

Penetration: m

Recovered length: 331 cm m

Section #	Length (m)
whirlpak	
1	131cm
2	200cm

Comments: Station was pick #26 from the original picks (Giesmic line 49 / T3 channel)
Whirlpak of upper mig rate
migrated down to ~1m
marine shell hash at base

Processors:

* return

CORE OPERATIONS AND PROCESSING LOG

Ship: Anderson

Cruise: 97027

Date: 7/8/97

Time:JD 189 / 1049 est Z

Latitude: 40 20.969 N

Longitude: 73 48.158 W

Core type: Vibracore

Station: 13

Depth: 140.5 m

Core barrel length: m

Free-fall length: m

Penetration: m

Recovered length: 40cm m

Section #	Length (m)
1	40cm

2 whirlpacks → core catcher and drill bit

Comments: pick #13 on original list.
- malfunction of compressor - no water in tube on return, catcher blocked, outside of barrel showed ~4m of penetration

Processors:

CORE OPERATIONS AND PROCESSING LOG

Ship: Anderson

Cruise: 97027

B time 1329 edt

Date: 7/8/97

Time:JD 189 / 1227 Z

Latitude: 40 17.921 N

Longitude: 73 47.813 W

B position → 40 17.922
73 47.815

Core type: Vibracore

Station: 14A & B

Depth: 169.5 ft m

Core barrel length: m

Free-fall length: m

Penetration: m

Recovered length: 115cm m

Section #	Length (m)
1	115cm
core catcher in whirlpak → sand bed	

A

Comments: Pick 14 in original list
went in w/o air pressurization

Processors:

CORE OPERATIONS AND PROCESSING LOG

Ship: RV Anderson

Cruise: AND 97027

Date: July 8, 1987

Time:JD 189 / 15:20:00 Z

Latitude: 40°: 12.621 N

Longitude: 73: 45.728 W

Core type: Vibracore

Station: 15

Depth: 167.4' m

Core barrel length: 20' m

Free-fall length: m

Penetration: m

Recovered length: 358cm m

Section #	Length (m)
1	158 cm
2	200 cm
Core catcher	

Comments: Pick # 12 HSV Marine flooding surface
Mud throughout - penetrated ≈5m

Processors:

CORE OPERATIONS AND PROCESSING LOG

Ship: Anderson

Cruise: AND97027

Date: 7/8/97

Time:JD 189 , 16:21:36 Z

Latitude: 40° 11.902 N

Longitude: 073° 45.160 W

Core type: Vibracore

Station: 16

Depth: 169.2' m

Core barrel length: m

Free-fall length: m

Penetration: m

Recovered length: 399cm m

Section #	Length (m)
1	199 cm
2	200 cm

Comments: Station is Pick #10 in original
Mud throughout
25 m of penetration

Processors:

* repeat

CORE OPERATIONS AND PROCESSING LOG

Ship: Anderson

Cruise: AUD97027

Date: 7/8/97

Time:JD 189 / 18:38:58 Z

Latitude: 40° 11.759 N

Longitude: 073° 44.378 W

Core type: VibraCore

Station: 17

Depth: 215.9' m

Core barrel length: m

Free-fall length: m

Penetration: m

Recovered length: m

Section #	Length (m)

Comments:

Processors:

CORE OPERATIONS AND PROCESSING LOG

Ship: Anderson

Cruise: AND 97027

Date: 9 Jul 97

Time: JD 190 / _____ Z

Latitude: 40° 32.943 N

Longitude: 073° 46.586 W

Core type: Vibracore

Station: 18

Depth: 47.3' ~~m~~

Core barrel length: _____ m

Free-fall length: _____ m

Penetration: _____ m

Recovered length: _____ m

Section #	Length (m)

None Collected

Comments: fine to med sand (in grab)

Processors: _____

CORE OPERATIONS AND PROCESSING LOG

Ship: Anderson

Cruise: AD097027

Date: 7/11/97

Time:JD 192 / 08:36:04 Z

Latitude: 40° 28.385 N

Longitude: 073° 46.203 W

Core type: Vibracore

Station: 19

Depth: 85' m

Core barrel length: 20' m

Free-fall length: m

Penetration: m

Recovered length: 304 cm m

Section #	Length (m)
#1	104 cm
#2	200 cm

Comments: Pick # 19 shelf Valley

Processors:

CORE OPERATIONS AND PROCESSING LOG

Ship: Anderson

Cruise: AND97027

Date: 7/11/97

Time:JD 192 / 11:10:48 Z

Latitude: 40° 20.080 N

Longitude: 073° 40.861 W

Core type: Vibracore

Station: 20

Depth: 84' / m

Core barrel length: 30 m

Free-fall length: m

Penetration: ~ 7ft m

Recovered length: 56cm m

Section #	Length (m)
1	56 cm
core catcher	

Comments: Station 26 (new position) on original pick hard packed sand → did not reach channel

Processors:

CORE OPERATIONS AND PROCESSING LOG

Ship: Anderson

Cruise: 97027

Date: 7/11/97

Time:JD 192 / 1309 dt Z

Latitude: 40 11.885 N

Longitude: 73 46.953 W

Core type: Vibracore

Station: STOP 21

Depth: m

Core barrel length: m

Free-fall length: m

Penetration: m

Recovered length: 62cm m

Section # Length (m)

IN addition To SECTION
2 core catche samples were saved in
whirl packs 1 from the metal bit
and one from plastic core catcher

Comments: Station 11 (new) in original pick
Notice inter bed of sand and
clay in core bit & catcher

Processors:

CORE OPERATIONS AND PROCESSING LOG

Ship: Anderson

Cruise: 97027

Date: 7/11/97

Time: JD 192 / 1433.d4 Z

Latitude: 40° 10.600 N

Longitude: 73 44.099 W

Core type: Vibracore

Station: 22

Depth: 134' m

Core barrel length: m

Free-fall length: m

Penetration: m

Recovered length: ~20cm m

Section #	Length (m)
core catcher only saved	
→ sand plugged barrel	

Comments: Line 204 HSU Flank → sta 2 on pick

Processors:

CORE OPERATIONS AND PROCESSING LOG

Ship: ANDERSON

Cruise: AND 97027

Date: 7/11/97

Time: JD 192 / 16 37 Z

Latitude: 40° 11.430 N

Longitude: 73° 43.903 W

Core type: Vibracore

Station: 23

Depth: 210' m

Core barrel length: m

Free-fall length: m

Penetration: m

Recovered length: m

Section #	Length (m)

The END

Third core barrel broken off

Comments:

Processors: