CORE OPERATIONS AND PROCESSING LOG

SHIP AND CRUISE: Jean A 90-1

AREA: Vieques, Puerto Rico

DATES: 10/31/90 - 11/7/90

CHIEF SCIENTIST: Delorey / Poppe

104760

CORE OPERATIONS AND PROCESSING LOG

Ship: JEAN A 90-1

Cruise: 90-1

Date: 11/5/90

Time:JD 10:30 1430 Z

Latitude: 18°9'16.0" N

Longitude: 65°34'45.0" W

Core type: Vibra Core Driven Assit

Station: VC-1

Depth: (37 Feet) 11.2 m

Core barrel length: 4.24 m

Free-fall length: m

Penetration: 4.07 m

Recovered length: 2.70 m

Section # Length (m)

First core took ~ an hour & included instruction for mitch, DANN, + THO by Willy & RON

Comments:

Processors:

CORE OPERATIONS AND PROCESSING LOG

Escollo de Arenas Vieques P.R.

Ship: Jean A

Cruise: 90-1

Date: 11/5/90

Time: JD 1208 / 1608 Z

Latitude: 18° 9' 7.3" N

planned Longitude: 65° 34' 49.5" W

actual x=795841
y=116512 w 88 m from station

actual { 18° 9' 8.33"
65° 34' 52.16"

Core type: Hammer Core (Diver Assist

Station: HC-2

Depth: (33') 10.05 m

Core barrel length: .66 m

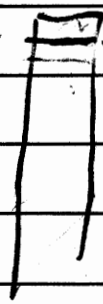
Free-fall length: m

Penetration: m

Recovered length: 32 cm

Section # Length (m)

thickness



3 cm salt & pepper
& thalassia roots

- muddy carbonate
sand light gray

Comments: First attempt aborted, anchor would not hold

Processors:

CORE OPERATIONS AND PROCESSING LOG

Ship: Jean A

Cruise: 90-1

Date: 11/5/90

Time:JD 1340, 1740 Z

Latitude: 18° 8' 51.5" N

Longitude: 65° 34' 56.3" W

actual x= 795165
y= 114872

Section # actual 18° 8' 52.10" 65° 34' 59.25 Length (m)

Core type: Hammer Core (Diver assisted)

Station: HC-1

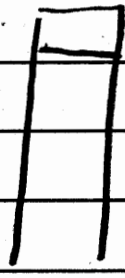
Depth: (29') 8.8 m

Core barrel length: 0.66 m

Free-fall length: m

Penetration: 0.43 m

Recovered length: 0.35 m



7.5 cm sand + pepper } some sparkle to 11 cm

– light gray muddy carbonate sand

Comments:

Processors:

CORE OPERATIONS AND PROCESSING LOG

Ship: JEAN A

Cruise: 90-1

Date: 11/6/90

Time:JD 0932 1342 Z

Latitude: 18°9' 31.97" N

Longitude: 65°35'10.07" W

x: 794103

y: 118888

Core type: Hammer Core (DIVER Assisted)

Station: HC-4

Depth: 44' 13.4 m

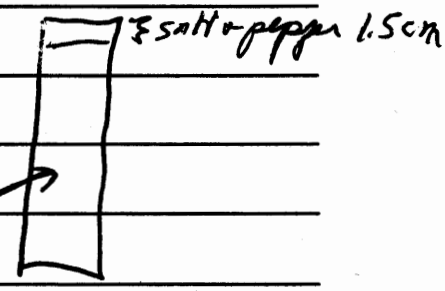
Core barrel length: 0.66 m

Free-fall length: m

Penetration: m

Recovered length: 32.5 cm

Section # Length (m)



cream, yellowish
light gray carbonate
sand

Comments: storm layer 1.5 cm thick

Processors:

CORE OPERATIONS AND PROCESSING LOG

Ship: Jean A

Cruise: 90-1

Date: 11/6/90

Time: JD 0950 / 1350 Z

Latitude: 18° 9' 28.18" N

Longitude: 65° 35' 34.47" W

x = 791752
y = 118495

Core type: Hammer Core (diver assist)

Station: HC-5

Depth: m

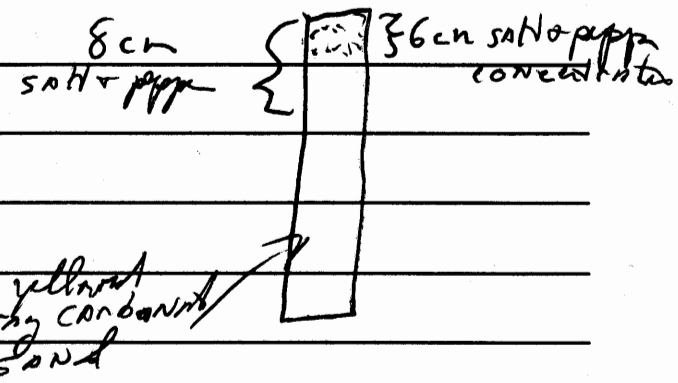
Core barrel length: 0.66 m

Free-fall length: m

Penetration: m

Recovered length: 23.5 cm

Section # Length (m)



Comments:

Processors:

CORE OPERATIONS AND PROCESSING LOG

Ship: Jean A

Cruise: 90-1

Date: 11/6/90

Time:JD 1158 / 1558 Z

Latitude: 18°9'33.5" N

Longitude: 65°36'14.6" W

Core type: Vibracore (dive assisted)

Station: VC-4

Depth: 44 13.4 m

Core barrel length: 20' m

Free-fall length: m

Penetration: m

Recovered length: m

Section # Length (m)

3' sand waves

Comments: No coring possible; currents too strong!

Processors:

CORE OPERATIONS AND PROCESSING LOG

Ship: Jean A

Cruise: 90-1

Date: 11/6/90

Time:JD ____ / 1813 Z

Latitude: 18° 9' 8.6" N

Longitude: 65° 36' 15.5" W

Core type: Vibracore

Station: VC-6

Depth: (42') 12.8 m

Core barrel length: ____ m

Free-fall length: ____ m

Penetration: ____ m

Recovered length: ____ m

Section # Length (m)

Circé: Diver description: depth 44' hydroids, and soft corals abound. Large (15 cm high x 30 cm long) sponges. Bottom salt/pepper with large shells (5-7 cm). Current ≈ 270°. Bottom flat-sand med. to coarse w/shell hash ≈ 5-7 cm below sed/H_2O lithified layer - looks like old coral - extensive throughout sometimes deeper: up to 15 cm sometimes on surface. Mostly ≈ 5-10 cm below surface. Sand over is very loose, no hard corals seen. Hold fasten for all soft corals + stinging hydroids attached

Comments: Observation Dive: coarse sediment ~5 cm thick over lithified sequence; hand sample collected by rock hammer.

- even large 15 x 30 cm sponges attached to lithified structure.

Processors: ____

CORE OPERATIONS AND PROCESSING LOG

Ship: Jean A

Cruise: 90-1

Date: 11/6/90

Time:JD 1555 / 1955 Z

Latitude: 18°8'16.34" N

Longitude: 65°35'30.08" W

x = 792209

y = 111251

Core type: Hammer Core (Diver Assisted)

Station: HC-9

Depth: (22') 6.7 m

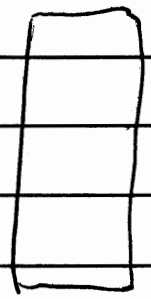
Core barrel length: 0.66 m

Free-fall length: m

Penetration: m

Recovered length: 14 cm

Section # Length (m)



very coarse carbonate sand & gravel, gray - light yellow - white

Comments:

Processors:

CORE OPERATIONS AND PROCESSING LOG

Ship: Jean A

Cruise: 90-1

Date: 11/6/90

Time:JD ____ / ~2050 Z

Latitude: 18° 8' 5.91" N

Longitude: 65° 35' 36.86" W

X = 791560

Y = 110196

Core type: Hammer Core (Diver Assisted)

Station: HC-10

Depth: 24' 7.3 m

Core barrel length: ____ m

Free-fall length: ____ m

Penetration: ____ m

Recovered length: 11 cm

Section # Length (m)

0 - .5 cm gray muddy layer

weathered-looking salt + pepper coarser than salt + pepper [illegible] other side

Comments:

Processors:

CORE OPERATIONS AND PROCESSING LOG

Ship: Jean A

Cruise: 90-1

Date: 11/7/90

Time: JD 0837 / 1237 Z

Latitude: 18° 9' 52.377" N

Longitude: 65° 35' 36.584" W

x = 791537

y = 120935

Core type: Hammer Core (Dive Assisted)

Station: HC-6

Depth: (43') 13.1 m

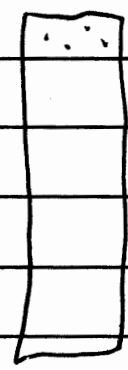
Core barrel length: 0.66 m

Free-fall length: m

Penetration: m

Recovered length: 28 cm

Section # Length (m)



A few scattered sand dark gram in the 4 cm vipe muddy carbonate sand

some dark mottling

Comments:

Processors:

CORE OPERATIONS AND PROCESSING LOG

Ship: Jean A

Cruise: 90-1

Date: 11/7/90

Time: JD 0932 / 1332 Z

Latitude: 18° 9' 45.710" N

Longitude: 65° 35' 53.561" W

x = 789503

y = 120255

Core type: Hammer Core

Station: HC-7

Depth: 46' 14.3 m

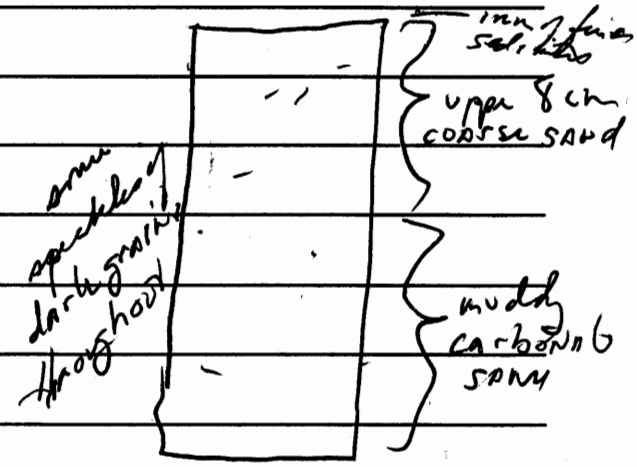
Core barrel length: 0.66 m

Free-fall length: m

Penetration: m

Recovered length: 23.5 cm

Section # Length (m)



Comments:

Processors:

15
8

CORE OPERATIONS AND PROCESSING LOG

Ship: JEAN A

Cruise: 90.1

Date: 11/7/90

Time: JD 1025, 1425 Z

Latitude: 18° 9' 11.149" N

Longitude: 65° 35' 19.795" W

X = 793175
Y = 116784

Core type: Hammer Core (Diver Assisted)

Station: HC-3

Depth: 38' m

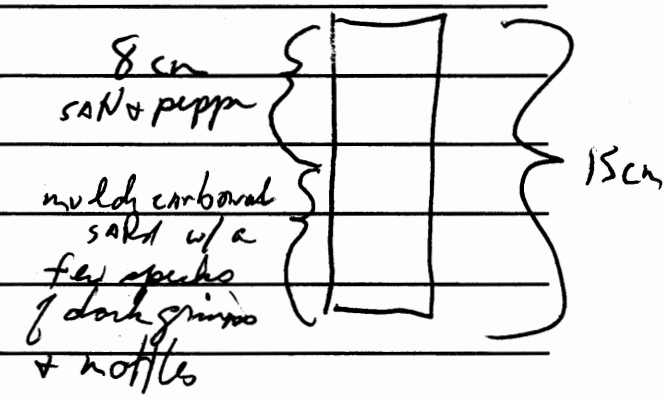
Core barrel length: 0.66 m

Free-fall length: m

Penetration: m

Recovered length: 15.0 cm m

Section # Length (m)



Comments:

Processors:

CORE OPERATIONS AND PROCESSING LOG

Ship: Jean A

Cruise: 90

Date: 11/7/90

Time:JD _____ / _____ Z

Latitude: 18° 8' 51.611" N

Longitude: 65° 35' 56878" W

x = 789608

y = 114797

Core type: Diver Assisted Vibracore

Station: VC-7

Depth: (22') 6.7 m

Core barrel length: _____ m

Free-fall length: _____ m

Penetration: 79½" 2.02 m

Recovered length: 17¾" 45 cm

Section # Length (m)

Very loose coarse sand; did not stay in core barrel during extraction

Comments:

Processors: