GRAB OPERATIONS AND PROCESSING LOG

SHIP AND CRUISE: Jean A 90-1

AREA: Vieques, Puerto Rico

DATES: 10/31/90 - 11/2/90

CHIEF SCIENTIST: Deloreg / Poppe

104761

GRAB OPERATIONS AND PROCESSING LOG

Ship: Jean A

Cruise: 90-1

Date: 11/5/90

Time: JD 1430 / ~1830 Z

Latitude: 65°34'47.26" N

Longitude: 18° 8' 43.63 W

796257

actual 114023

Grab type: Shipec

Station: SS-32

Sample ID: SS-32 m

Depth: (27') 8.2 m

Comments:

Processors:

GRAB OPERATIONS AND PROCESSING LOG

Ship: JEAN A

Cruise: 90-1

Date: 11/5/90

Time: JD 309 / 1847 Z

Latitude: -65° 35' 5.99" N

Longitude: 18° 8' 31.77" W

actual x = 794525
y = 112819

Grab type:

Station: 33

Sample ID: SS33 m

Depth: (21') 6.4 m

Comments:

Processors:

GRAB OPERATIONS AND PROCESSING LOG

Ship: Jean A

Cruise: 90-1

Date: 11/5/90

Time:JD 1900 Z

Latitude: 18° 8' 25.85" N

Longitude: 65° 35' 8.92" W

actual 794245

112220

Grab type: Shipek

Station: SS-34

Sample ID: SS-34 m

Depth: (19') 5.8 m

Comments:

Processors:

GRAB OPERATIONS AND PROCESSING LOG

Ship: Jean A

Cruise: 90-1

Date: 11/5/90

Time:JD 1506 / 1906 Z

Latitude: 18° 8' 22.99" N

Longitude: 65° 35' 18.66" W

x= 793307

y= 111927

Grab type: Shipek

Station: SS-39

Sample ID: SS-39 m

Depth: 20 6.1 m

Comments:

Processors:

GRAB OPERATIONS AND PROCESSING LOG

Ship: Jean A

Cruise: 90-1

Date: 11/5/90

Time: JD 1511 / 1911 Z

Latitude: 18° 8' 32.41" N

Longitude: 65° 35' 40.30" W

x = 791216

y = 112868

Grab type: Shipec

Station: 55-38

Sample ID: 55-38 m

Depth: (16') 4.9 m

Comments:

Processors:

GRAB OPERATIONS AND PROCESSING LOG

Ship: Jean A

Cruise: 90-1

Date: 11/5/90

Time:JD 1519 , 1919 Z

Latitude: 18°8' 43.33" N

Longitude: 65°35' 28.82" W

x = 792318

y = 113974

Grab type: Shipek

Station: SS-36

Sample ID: SS-36 m

Depth: (20) 6.1 m

Comments:

Processors:

GRAB OPERATIONS AND PROCESSING LOG

Ship: Jean A

Cruise: 90-1

Date: 11/5/90

Time:JD 1525 / 1925 Z

Latitude: 18° 8' 56.59" N

Longitude: 65° 35' 28.95" W

x - 792295

y = 115311

Grab type: Shipec

Station: SS-29

Sample ID: SS-29 m

Depth: (22') 6.7 m

Comments:

Processors:

GRAB OPERATIONS AND PROCESSING LOG

Ship: Jean A

Cruise: 90-1

Date: 11/5/90

Time: JD 1530 / 1930 Z

Latitude: 18° 8' 51.76" N

Longitude: 65° 35' 41.49" W

x = 791092

y = 114819

Grab type: Shipec

Station: SS-28

Sample ID: SS-28 m

Depth: (22') 6.7 m

Comments:

Processors:

GRAB OPERATIONS AND PROCESSING LOG

Ship: Jean A

Cruise: 90-1

Date: 11/5/90

Time: JD 1539 / 1939 Z

Latitude: 18° 8' 38.77" N

Longitude: 65° 36' 7.15" W

x: 788623

y: 113497

Grab type: Shipek

Station: SS-42

Sample ID: SS-42 m

Depth: (36') 11.0 m

Comments:

Processors:

GRAB OPERATIONS AND PROCESSING LOG

Ship: Jean A

Cruise: 90.1

Date: 11/5/90

Time: JD 1548 / 1948 Z

Latitude: 18°8' 24.13 N

Longitude: 65°36' 39.78" W

x = 785483

y = 112007

Grab type: Shipek

Station: 5544

Sample ID: 5544 m

Depth: 36' 11.0 m

Comments:

Processors:

GRAB OPERATIONS AND PROCESSING LOG

Ship: Jean A

Cruise: 90-1

Date: 11/5/90

Time: JD 1610 / 2010 Z

Latitude: 18° 9' 13.36" N

Longitude: 65° 36' 17.70" W

x = 787590
y = 116982

Grab type: Shipek

Station: SS-22

Sample ID: SS-22 m

Depth: 41' 12.5 m

Comments:

Processors:

GRAB OPERATIONS AND PROCESSING LOG

Ship: Jean A

Cruise: 90-1

Date: 11/5/90

Time: JD 1618 / 2018 Z

Latitude: 18° 9' 14.72" N

Longitude: 65° 36' 8.41" W

x = 788486

y 117123

Grab type: Shipec

Station: 5523

Sample ID: 5523 m

Depth: (30') 9.1 m

Comments:

Processors:

GRAB OPERATIONS AND PROCESSING LOG

Ship: Jean A

Cruise: 90-1

Date: 11/5/90

Time:JD 1628 / 2029 Z

Latitude: 18° 9' 6.46" N

Longitude: 65° 35' 51.28' W

X= 790141

Y= 116297

Grab type: Shipec

Station: SS24

Sample ID: SS24 m

Depth: 22 6.7 m

Comments:

Processors:

GRAB OPERATIONS AND PROCESSING LOG

Ship: Jean A

Cruise: 90-1

Date: 11/5/90

Time: JD 1636 / 2036 Z

Latitude: 18°9'12.67" N

Longitude: 65 35 25.81 W

X = 792594

Y = 116935

Grab type: Shipek

Station: SS 30

Sample ID: SS 30 m

Depth: (37') 11.3 m

Comments:

Processors:

GRAB OPERATIONS AND PROCESSING LOG

Ship: Jean A

Grab type: Shipek

Cruise: 90-1

Station: SS-19

Date: 11/5/90

Sample ID: SS-19 m

Time: JD 1641, 2041 Z

Depth: 43 m

Latitude: 18° 9' 28.84" N

Longitude: 65° 35' 19.92" W

x = 793155
y = 118568

Comments:

Processors:

GRAB OPERATIONS AND PROCESSING LOG

Ship: Jean A

Cruise: 90-1

Date: 11/6/90

Time:JD 0955 / 1355 Z

Latitude: 18° 9' 36.63" N

Longitude: 65° 35' 49.28" W

790320

119341

Grab type: Shipec

Station: SS-17

Sample ID: SS-17 m

Depth: (48') 14.6 m

Comments:

Processors:

GRAB OPERATIONS AND PROCESSING LOG

Ship: Jean A

Cruise: 90-1

Date: 11/6/90

Time: JD 1002 / 1402 Z

Latitude: 18° 9' 25.37" N

Longitude: 65° 36' 12.79" W

x = 788058

y = 118195

Grab type: Shipec

Station: SS-16

Sample ID: SS-16 m

Depth: 40' 12.2 m

Comments:

Processors:

GRAB OPERATIONS AND PROCESSING LOG

Ship: Jean A

Grab type: Shipek

Cruise: 90-1

Station: SS-14

Date: 11/6/90

Sample ID: SS-14 m

Time: JD 1008 / 1408 Z

Depth: (24') 7.31 m

Latitude: 18° 9' 35.55" N

Longitude: 65° 36' 12.24" W

x = 788107

y = 119222

Comments:

Processors:

GRAB OPERATIONS AND PROCESSING LOG

Ship: Jean A

Cruise: 90-1

Date: 11/6/90

Time: JD 1013 / 1413 Z

Latitude: 18° 9' 46.69" N

Longitude: 65° 36' 20.98" W

x = 787259

y = 120342

Grab type: Shipek

Station: SS-12

Sample ID: SS-12 m

Depth: (47') 14.3 m

Comments:

Processors:

GRAB OPERATIONS AND PROCESSING LOG

Ship: Jean A

Cruise: 90-1

Date: 11/6/90

Time: JD 1019 / 1419 Z

Latitude: 18° 9' 48.28" N

Longitude: 65° 36' 15.67" W

x = 787720

y = 120505

Grab type: Shipek

Station: SS-13

Sample ID: SS 13 m

Depth (25') 7.6 m

Comments:

Processors:

GRAB OPERATIONS AND PROCESSING LOG

Ship: Jean A

Cruise: 90-1

Date: 11/6/90

Time: JD 1052 / 1452 Z

Latitude: 18° 9' 34.47" N

Longitude: 65° 37' 20.32" W

X = 781542

Y = 119084

Grab type: Shipek

Station: SS-8

Sample ID: SS-8 m

Depth: (47) 14.3 m

Comments:

Processors:

GRAB OPERATIONS AND PROCESSING LOG

Ship: Jean A

Cruise: 90-1

Date: 11/6/90

Time: JD 11031 1503 Z

Latitude: 18°9'52.84" N

Longitude: 65°36'48.12" W

x = 784639

y = 120950

Grab type: Shipec

Station: SS10

Sample ID: SS10 m

Depth: (48') 14.6 m

Comments:

Processors:

GRAB OPERATIONS AND PROCESSING LOG

Ship: Jean A

Cruise: 90.1

Date: 11/6/90

Time:JD 1113 / 1513 Z

Latitude: 18°10'4.76" N

Longitude: 65°36'25.03" W

X=786860

Y=122163

Grab type: Shipek

Station: 55-4

Sample ID: 55-4 m

Depth: (51') 15.5 m

Comments:

Processors:

GRAB OPERATIONS AND PROCESSING LOG

Ship: Jean A

Grab type: Shipek

Cruise: 90-1

Station: 55-6

Date: 11/6/90

Sample ID: 55-6 m

Time: JD / Z

Depth: (57') 17.4 m

Latitude: 18° 10' 20.55" N

Longitude: 65° 36' 16.34" W

x 787691

y 123759

Comments:

Processors:

GRAB OPERATIONS AND PROCESSING LOG

Ship: Jean A

Cruise: 90-1

Date: 11/6/90

Time: JD 1612 / 2012 Z

Latitude: 18°7'26.49" N

Longitude: 65°36'4.10" W

x 788951

y 106208

Grab type: Shipek

Station: 5556

Sample ID: 5556 m

Depth: 34' 10.4 m

Comments:

Processors:

GRAB OPERATIONS AND PROCESSING LOG

Ship: Jean A

Cruise: 90-1

Date: 11/6/90

Time:JD 1631 2031 Z

Latitude: 18° 7' 51.26" N

Longitude: 65°35' 20.81" W

x = 793114

y = 108726

Grab type: Shipek

Station: 5547

Sample ID: 5547 m

Depth (26') 7.9 m

Comments:

Processors: