

820345M1

SAMPLE Log
Sheets
GYRE 82-6-11

101513

Geop. Log and ~~Dist~~ Station sheet format

Line #

L - TRANSIT

S - 1

S - 1b ??

L - 1

S - 2 a or b ?

L = line

S = Station

milliSec x .75
= meters

Time

Zulu (GMT) assumed

24 hour clock

Crs/Hdg

(?)

Speed

PC - 1

PC - 2, etc.

Piston core

$\boxed{2-D} \equiv D-1$

D - 1

D - 2, etc.

Dredge

D - 3

D - 4

D - 5

all at Station 4

(S4)

(S4)

(S4)

STA

- 1 - PC 1
 - 2 - DI
 - 2 - PC 2
 - 2 - PC 3
 - 2 - DZ
 - 3 - PC 4
 - 3 - D3
- C

PC 1
2D

Field Log Sheet

SAMPLE # 13 (PC1)
 STATION # 1

SHIP Byre CRUISE # 82-G-11 DATE 19 Sept. 82

GENERAL AREA Off Cape Fear

EQUIPMENT Short banded Piston Corer

METHOD OF POSITIONING Drift

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	33° 19.7	77° 17.6	0002Z 0840	38 m	_____°
	LORANS:				_____°
START UP					
	LORANS:				

RESULTS: # OF DROPS _____ IF MORE THAN 1, WHY? Penetration ~ 6 m
 DISTURBED? LOST MOST OF SAMPLE FROM CORER BECAUSE NO CLOTH BAG Label Procedure--indicate--
 Cruise No. 82-11 TOP 1
 Station # 1 3
 Core # 1 4 BOTTOM

LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY?	
<u>Phosphate sand size fraction</u>	1
	2
BIOLOGY: WHAT & WHERE?	3
<u>Arthropods</u>	4
	5
SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?	6
	7
	8

COMMENTS: components: quartz sand, phosphate, shell debris, benthic forams
 quartz is angular to subrounded. Phosphate angular to rounded.
 few benthic forams (recent). Phosphate colors: light Brn., gray,
 dark gray, to black, highly polished, oval to spherical
 med to very coarse grain sized; also some agglomerated
 carbonate-phosphate mixtures

OBSERVERS:

PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX.

Field Log Sheet

SAMPLE # 2D-01
STATION # 2

SHIP Gyre CRUISE # 82-11 DATE Sept. 19 82

GENERAL AREA Blake Plateau (N.E., Phoenix Islands)

EQUIPMENT Dredge 48" chain drag

METHOD OF POSITIONING Loran - Satnav at max
950 m out

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	32° 16.59 N	77° 41.48 W	1351 Z	550 m	(570 m ?)
	LORANS:				
START UP	32 17.70 N	77 40.87 W	1427 Z	530 m	
	LORANS:				

RESULTS: # OF DROPS 1 IF MORE THAN 1, WHY?

DISTURBED? collected 350 kg

Label Procedure--indicate--
Cruise No. 82-11 TOP
Station # 2
Core # 3
BOTTOM

Top/Bottom--and Sect. #

LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY? smooth cemented phosphatic cobbles (size range -) ; phosphatic slabs - dark brown rubby texture (size range -) . About 80% cobbles and pebbles, 20% slabs, some sand. One granite gneiss cobble ~15cm in diameter. One limestone fragment.

BIOLOGY: WHAT & WHERE? Recovered in dredge: sea urchins, silicious sponges, skates (~8cm) Foram species: Globorotalia truncatulinoides, Neogloboquadrina dutertrei, Globorotalia menardii, Globigerinoides sacculifer, Globorotalia tumida, Turborotalia inflata, Globigerinoides tuber (red), Oxalina universa, Globigerinoides conglobatus, Globorotalia flexuosa, Pulleniatina obliquiloculata. Gastropods, several unidentified benthic forams.

SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?

COMMENTS: 5500 1358 Z Iron-staining is present throughout
3000 W tip at 1412 Z sample. Several benthics showing signs of
on deck at 1437 Z replacement or mineralization. Minor amounts of
phosphate. Age of sample is Pleistocene.

SECTION 1 2 3 4 5 6 7 8
* PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX. *

OBSERVERS: Lane, Aruscavage, Hall,

Field Log Sheet

SAMPLE # PC 2A

STATION # 2

SHIP Rivgyre

CRUISE # 82-11

DATE 19 Sep 82

GENERAL AREA _____

EQUIPMENT _____

METHOD OF POSITIONING _____

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM					_____ °
	LORANS:				_____ °
START UP					
	LORANS:				

RESULTS: # OF DROPS _____ IF MORE THAN 1, WHY?
 DISTURBED? _____

Label Procedure--indicate--
 Cruise No. TOP 1
 Station # 2
 Core # 3
 BOTTOM 4

Top/Bottom--and Sect. #

LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY?

BIOLOGY: WHAT & WHERE?

SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?

COMMENTS:

no recovery

PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX.

OBSERVERS:

Field Log Sheet

SAMPLE # PC 2B

STATION # 2

SHIP R/V Gyre

CRUISE # 82-11

DATE 19 Sep 82

GENERAL AREA Blake Plateau (N.E. Phosphorite Region)

EQUIPMENT Short-barreled piston corer

METHOD OF POSITIONING Drift Satellite

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	32° 19.28' 32° 19.316'	77° 41.33' 77° 41.317'	1637Z	525m	537m ^o
	LORANS:				
START UP					
	LORANS:				

RESULTS: # OF DROPS 1 IF MORE THAN 1, WHY?

DISTURBED? Only thin skin of sediment recovered in surgical glove catcher soup and grains

Label Procedure--indicate--
Cruise No. 82-11 TOP SECTION
Station # 2
Core # 2 BOTTOM 4
Top/Bottom--and Sect. #

LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY?

Phosphatic sand with, considerable glauconite and falled foram tests, sponge spicular; fragments of small larger phosphorite pieces to 4m and round polished phosphorite

BIOLOGY: WHAT & WHERE? Sample rich in planktic foraminifera. Species include: Globorotalia truncatulinoides, Neoglobobulimina dutertrei, Globorotalia menardii, Globigerinoides sacculifer, Globorotalia tumida, Turborotalia inflata, Globigerinoides tuber, Globigerinella aequilateralis, Possibly Globorotalia - Several unidentifiable benthics. Scaphopods

SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?

COMMENTS: Sample contains a fair amount of glauconite. There is also a fair amount of oxidized sediment. Iron and phosphate are present, with only small amounts of reworked carbonate. Preservation of the carbonate is moderate. The age of this sample is Pleistocene to recent (probably recent).

PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX.

OBSERVERS: DeYoung, Manheim, Hall

Field Log Sheet

SAMPLE #	<u>PC-3</u>
STATION #	<u>3</u>

SHIP R/V GYRE CRUISE # 82-11 DATE 20 Sep 82

GENERAL AREA Blake Plateau (N.E. slope to pavement)

EQUIPMENT Short barreled piston corer

METHOD OF POSITIONING Satellite calibrated Loran

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	<u>A 32 11.653</u>	<u>77 45.433</u>	<u>1432Z</u>	<u>530</u>	<u>572</u> °
	LORANS:				°
START UP			<u>1433Z</u>		
	LORANS:				

RESULTS: # OF DROPS 1 IF MORE THAN 1, WHY? _____
 DISTURBED? _____

Label Procedure--indicate--
 Cruise No. 82-11 TOP
 Station # 3
 Core # 3 BOTTOM
 Top/Bottom--and Sect. #

LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY? _____

BIOLOGY: WHAT & WHERE? _____

SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS? _____

COMMENTS: _____

1	*PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX.*
2	
3	
4	
5	
6	
7	
8	

core drop 3A - Triggering did not function properly
 core

OBSERVERS:

Field Log Sheet

SAMPLE # C-4
 STATION # 3

SHIP Gyrf CRUISE # Gyrc 11-82 DATE 20 SEP 82

GENERAL AREA BLAKE Plateau

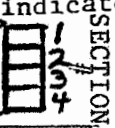
EQUIPMENT Gravity Core with hardened wire

METHOD OF POSITIONING Loran-Satnav

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	32° 11.48'N	77° 45.00'W	1650Z	545 m	597 m°
	LORANS:				
START UP					
	LORANS:				

RESULTS: # OF DROPS 1 IF MORE THAN 1, WHY?
 DISTURBED? _____

Label Procedure--indicate--
 Cruise No. 82-11 TOP
 Station # 3
 Core # 4 BOTTOM



LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY?	
	1
	2
BIOLOGY: WHAT & WHERE?	3
	4
	5
SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?	6
	7
	8

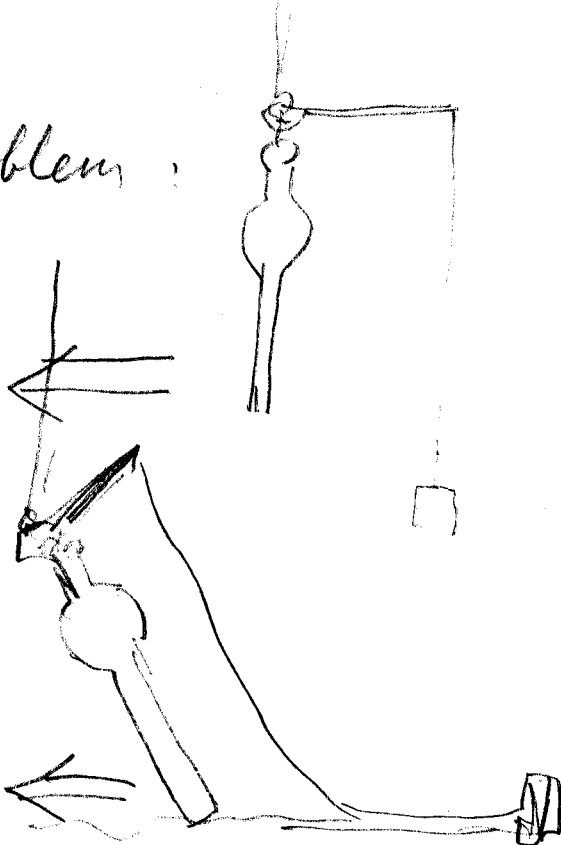
COMMENTS: 3rd attempt on placement. Removed piston see reverse
On Sta 1633 32° 10.71 77 44.68 557 m
Down 164033 32 10.97 Depth 555 m
77 44.77

OBSERVERS:

* PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX. *

⊕

Problem:



cover drifts down current on striking, causing failure of trigger w/d release

cover scrapes along bottom causing one side to be abraded

New system:

- 1) Reach station $\frac{1}{2}$ mi upstream of current
Hold till cover ready
- 2) Stop ship; cover down (drift)
as rapidly as possible

Field Log Sheet

SAMPLE # C-5

STATION # 3

SHIP R/V Gyre CRUISE # 82-11 DATE 20 Sep 82

GENERAL AREA Blake Plateau

EQUIPMENT Gravel core with heidevald nose + 20' freefall

METHOD OF POSITIONING Loran Salva

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	32° 11.0' N	77° 45.3' W	1802	551 m	582 m °
	LORANS:				
START UP					
	LORANS:				

RESULTS: # OF DROPS 1 IF MORE THAN 1, WHY?

DISTURBED? Recovered core but lost

it by banging core against vessel

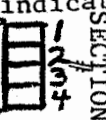
Label Procedure--indicate--

Cruise No. 82-11 TOP

Station # 3

Core # 5 BOTTOM

Top/Bottom--and Sect. #



LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY?

Manganese smearing on nose indicates encountered pavement; phosphate on teeth shows hard substrate stopping core was phosphatic

BIOLOGY: WHAT & WHERE?

pavement,

SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?

COMMENTS: 4th attempt on pavement

1750 32 10.47 555 m
77 45.12

welded
barrel to nose

PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX.

OBSERVERS:

Field Log Sheet

SAMPLE # CG
STATION # 3

SHIP R/V Gyre CRUISE # 82-11 DATE 20 Sep 82

GENERAL AREA Blake Plateau

EQUIPMENT Gravity core with hardened nose and 29' free fall

METHOD OF POSITIONING LORAN - Satnav (INS)

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	32° 11.9'	77° 43.9'	1956 Z	549 m	535 m °
	LORANS:				
START UP					
	LORANS:				

RESULTS: # OF DROPS 1 IF MORE THAN 1, WHY? Label Procedure--indicate--
 DISTURBED? rec. 8-10 cm very hard pavement Top/Bottom--and Sect. #
 Cruise No. 82-11 TOP 1 SECTION
 Station # 3 2
 Core # 6 BOTTOM 3
 PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX.

LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY? Phosphate slab w/ yellow sediment
interlayered and - surface of slab is black-brown
polished, knobby; interior is mixed crystalline
dense yellow phosphorite with lenses or fractures filling
of carbonate minerals

BIOLOGY: WHAT & WHERE? Globorotalia truncatulinoides, Globorotalia menardii, Globorotalia
inner nose - Planktic foraminifers; tumida, Globigerinoides sacculifer, Neogloboquadrina
datertrei, ? Turborotalia inflata. Several benthic foraminifera

Outer nose - Barren of Planktic or benthic foraminifers.

SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?

Bottom part of core not "soft" because fragments
are all sharp, broken crystalline - r. Freese in character
but has been smashed by tremendous force of blow.

COMMENTS: LATER CONCLUSION

Sensim experiment estimated pavement
thickness at ~2' The inner nose contains a sparse planktic foraminiferal
population, indicative of Pleistocene to recent. CaCO₃ makes up only
a minor component. No nannoplankton was observed.
The outer nose contains no forams and is composed mainly of
phosphate.

OBSERVERS:

Field Log Sheet

SAMPLE #

STATION # 61

SHIP Gyre

CRUISE # 82-11

DATE 9/20/82

GENERAL AREA Blake Plateau

EQUIPMENT Datasonics Bottom Pinger (27kHz, 0.2msec pulse)

METHOD OF POSITIONING Loran - Satnav

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	32° 13.0	77° 44.7	2020Z	537m	500m °
	LORANS:				°
START UP					
	LORANS:				

RESULTS: # OF DROPS 2

DISTURBED?

IF MORE THAN 1, WHY?

Not enough weight on 1st deployment, pinger probably not vertical. Added weight for second run.

Label Procedure--indicate--

Cruise No. TOP

Station #

Core #

Top/Bottom--and Sect. #

BOTTOM

SECTION
1
2
3
4
5
6
7
8

LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY?

BIOLOGY: WHAT & WHERE?

SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?

COMMENTS:

Second bottom reflection lags trial by 0.4 msec indicates subbottom at depth of 45-8 m (7000-7500 m/s velocity)

PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX.

OBSERVERS: SUNDBK0157

Field Log Sheet

SAMPLE #	D2
STATION #	6

SHIP RV Gyre CRUISE # 82-11 DATE 21 Sep 82

GENERAL AREA Blake Plateau (W.E. Nodule Area)

EQUIPMENT Dredge 48" chain

METHOD OF POSITIONING Loran - SatNav

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	31°42.7 N	77°29.4 W	215417 15012	825m	1045m°
	LORANS:				
START UP	31°42.8 N	77°29.1 W	1506		
	LORANS:				

RESULTS: # OF DROPS 1 IF MORE THAN 1, WHY? _____

10 Kg DISTURBED? collected ~

Label Procedure--indicate--
 Cruise No. 82-11 TOP SECTION
 Station # 6
 Core # 32 BOTTOM SECTION
 Top/Bottom--and Sect. #

LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY?
~~At~~ Mainly cemented carbonate 3-20 cm diam grey, brown stain
in part, and much deepwater coral, both fresh and
thin-encrusted; one cobble probably phosphatic, but mixed with
Carbonate

BIOLOGY: WHAT & WHERE?
 Deepwater corals, soft corals, brachiopods,
 brittle stars, siliceous sponges, funiculate,
 hydroids, mainly encrusting forms on corals

SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?
 Foram species include: *Spharoidinella dehiscens*, *Globigerinoides ruber*, *Globigerinoides conglobatus*, *Globigerinoides sacculifer*, *Neoglobobulimina dutertrei*, *Globorotalia menardii*, *Globorotalia tumida*, *Globorotalia crassula*, *Orbulina universa*, *Palkenatina obliquogulata*

COMMENTS: See reverse Distance traveled on bottom = 0.88 naut. mi. (See Reverse)
 Forams indicate a Pleistocene age. Of paleontologic interest is the fact the *Spharoidinella dehiscens* is one of the dominant planktics. The sample is essentially all forams.

OBSERVERS: Aws cage, Mannheim, & Young

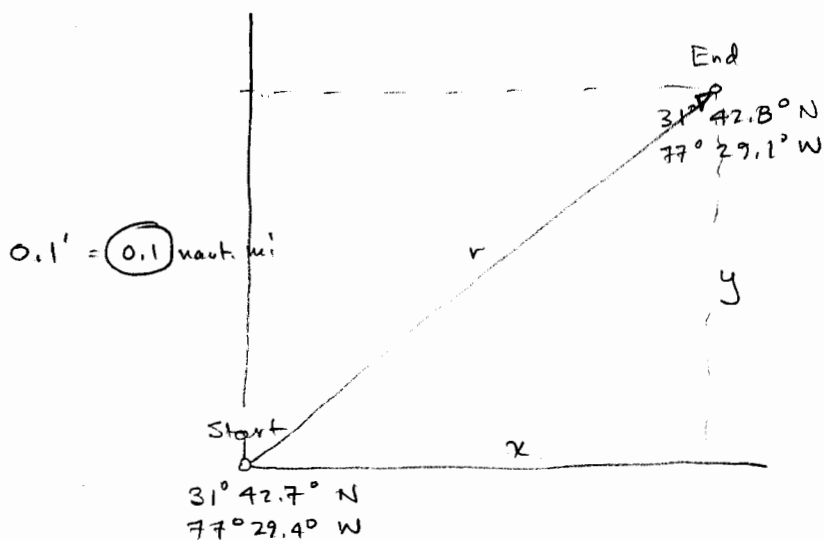
PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX.*

Station # 6 D2

Dredge 2



Dredged soil



0.3' = 0.26 naut. mi

1° Longitude \approx
0.86° Latitude

$$r = \sqrt{x^2 + y^2}$$

$$r = \sqrt{(0.26)^2 + (0.1)^2}$$

$$r = 0.28 \text{ nautical mile}$$

(does not account for change in depth)

Field Log Sheet

SAMPLE # D3

STATION # 7

SHIP R/V Gyre

CRUISE # BZ-11

DATE 21 Sep 82

GENERAL AREA Blake Plateau (N.E. nodule area)

EQUIPMENT Dredge 48" chain

METHOD OF POSITIONING LORANS-INS

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	31° 38.9' N	77° 25.6' W	1637Z	891 m	1150 m °
	LORANS:				
START UP	31° 39.3' N	77° 25.2' W	1652Z	893 m	
	LORANS:				

RESULTS: # OF DROPS IF MORE THAN 1, WHY?

*only 1 3cm cottle recovered but
DISTURBED?
1600 lb mamre slab, partially phosphatic shell
off dredge*

Label Procedure--indicate--

Cruise No. BZ-11 TOP

Station # 7

Core # D3

BOTTOM

Top/Bottom--and Sect. #

SECTION
1
2
3
4

LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY?

*1 small piece (5cm) of pyritized green-yellow
glassy phosphorite
loaded with planktonic foraminiferal remains & molds
but hard to identify*

BIOLOGY: WHAT & WHERE?

SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?

COMMENTS:

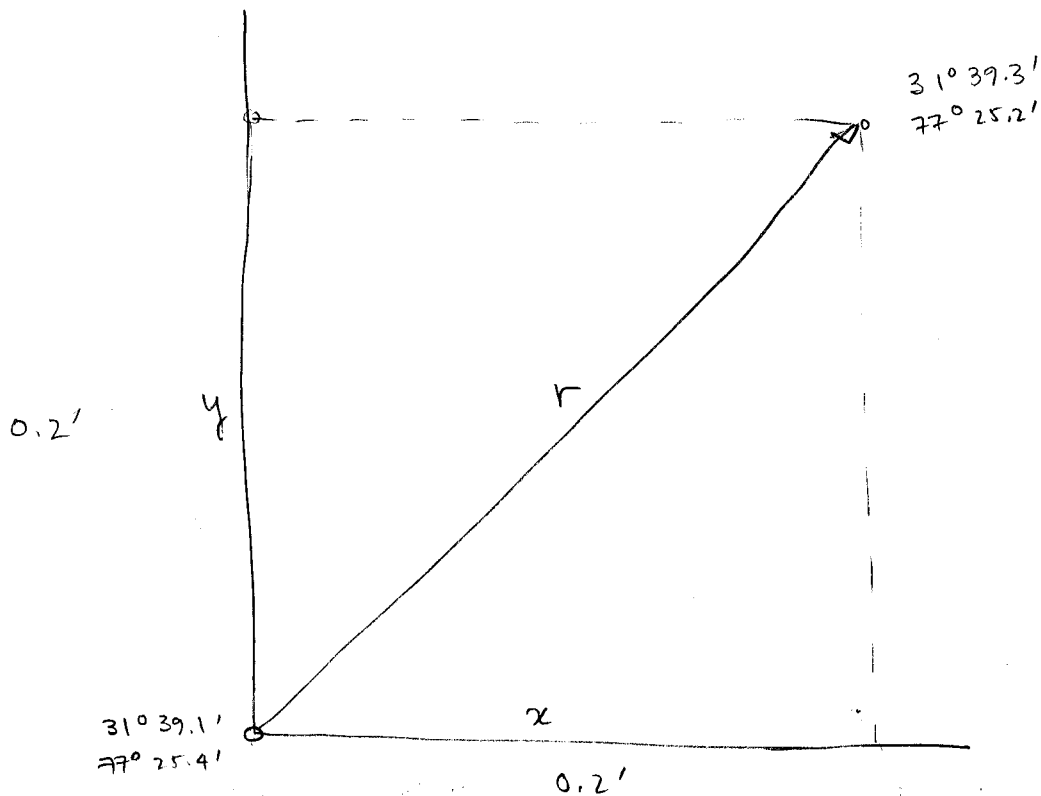
dropped ~ 1600 lb. rock on lift from bottom

dredging distance = 0.26 naut. mi (see reverse)

PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX.

OBSERVERS: DoYous, Manhem

Station # 7 D3



$0.2' = 0.17$ naut mi

1° Long $\approx 0.86^\circ$ Lat.

$$r = \sqrt{x^2 + y^2}$$

$$r = \sqrt{(0.17)^2 + (0.2)^2}$$

$$r = 0.26 \text{ nautical miles}$$

(does not account for 2m depth change!)

Field Log Sheet

SAMPLE #	D4
STATION #	7

SHIP R/V Gyre CRUISE # 82-11 DATE 21 Sep 82

GENERAL AREA Blake Plateau (N.E. nodule area)

EQUIPMENT Dredge - 48" clam

METHOD OF POSITIONING LORANS - INS

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	31° 40.3' N	77° 24.2' W	1721Z	891 m	1300 m
	LORANS:				°
START UP	31° 41.1' N	77° 23.2' W	1748Z	900 m	
	LORANS:				

RESULTS: # OF DROPS	IF MORE THAN 1, WHY?	Label Procedure--indicate--
<p>6 Kg <u>rock cobbles</u> DISTURBED?</p>		<p>Cruise No. 82-11 TOP</p> <p>Station #</p> <p>Core # D4 BOTTOM</p> <p>Top/Bottom--and Sect. #</p>

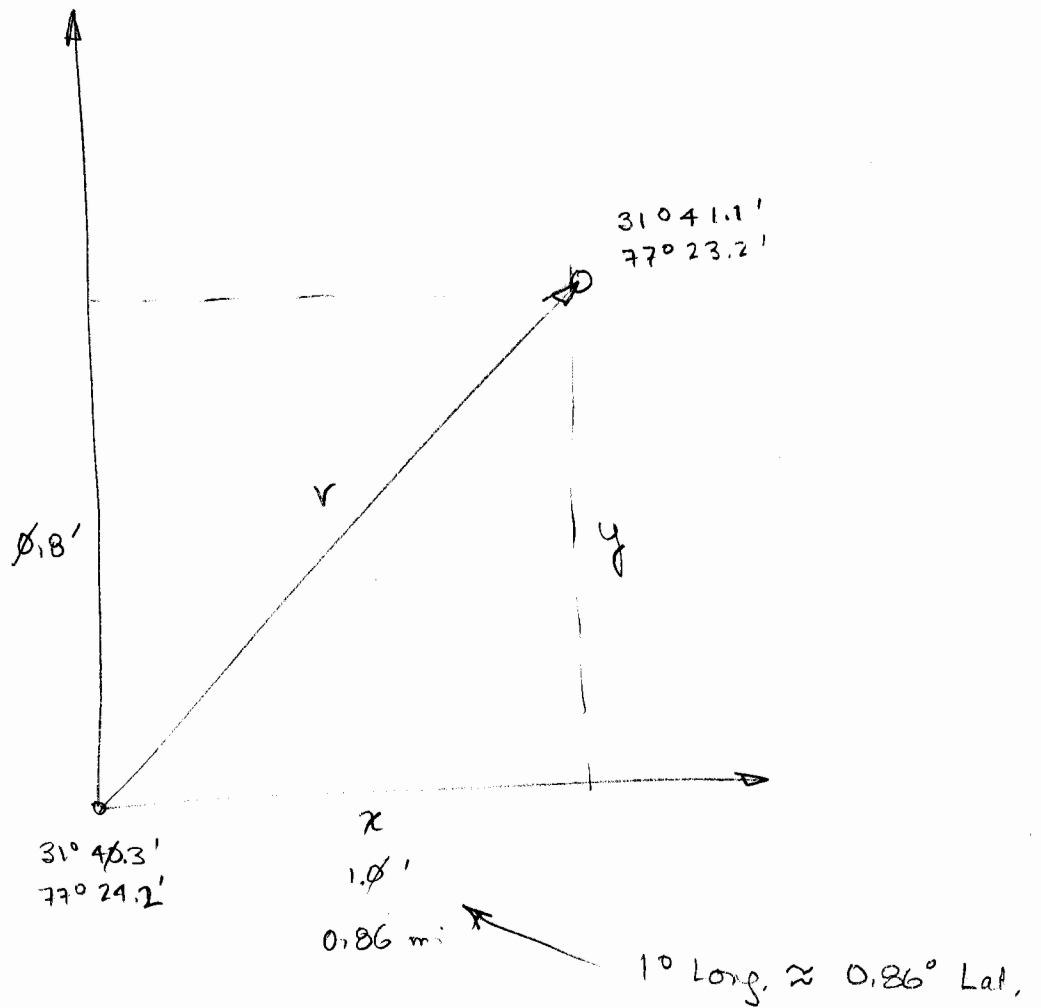
LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY?	SECTION
<p>a) Brownish to greenish (!) coated hard phosphorite cobbles 2 - 12 cm in diameter; semi-porous but little carbonate with them; some rough, subangular</p>	1
<p>b) Yellowish-green cemented carbonate ooze with some partly coated with hard phosphorite crust</p>	2
<p>c) One piece of "petrified pine bark" 2 cm x 9 cm"</p>	3
<p>BIOLOGY: WHAT & WHERE? <u>highly irregular-knobby surface</u></p>	4
<p>SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?</p> <p><u>all phosphorite.</u></p>	5
<p><u>ASSUMPTION</u>: relatively smooth hard phosphate pavement with occasional carbonate mounds</p>	6
<p>COMMENTS: <u>dredging distance = 1.17 naut. mi (see reverse)</u></p>	7
<p>3 small sample bags, 1 large bag</p>	8

PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX.

OBSERVERS: DeYoung, Manheim

Station # 7

D4



$$r = \sqrt{x^2 + y^2}$$

$$r = \sqrt{(0.86)^2 + (0.8)^2}$$

$$r = 1.17 \text{ (1.0)} \text{ nautical miles}$$

(does not account for 9 m depth change!)

Field Log Sheet

SAMPLE # DS

STATION # 8

SHIP R/V Gyre

CRUISE # 82-11

DATE 21 Sep 82

GENERAL AREA Blake Plateau (N.E. nodule area)

EQUIPMENT Dredge - 48" chain

METHOD OF POSITIONING LORANS / INS

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH (max)
ON BOTTOM	31° 33.4' N	77° 22.2' W	2662z	952 m	1420m.
	LORANS:				
START UP	31° 39.1' N	77° 21.4' W	2045z	957m.	
	LORANS:				

RESULTS: # OF DROPS 1 IF MORE THAN 1, WHY?

DISTURBED? _____

Label Procedure--indicate--

Cruise No. 82-11 TOP

Station # 8

Core # DS BOTTOM

Top/Bottom--and Sect. #

SECTION
1
2
3
4
5
6
7
8

LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY? 85% Phosphatic Plates and Cobbles, 10-15% Carbonate ooze w/ less than 5% Mn Plates + Cobbles. About 800-1000 lbs of material.

BIOLOGY: WHAT & WHERE? Planktic forams: Globigerinoides sacculifer, Globigerinoides tuber (some red), Neogloboquadrina dutertrei, Globorotalia truncatulinoides, Globorotalia menardii, Globorotalia tumida. Some microfossils, Scaphopods, Gastropods,

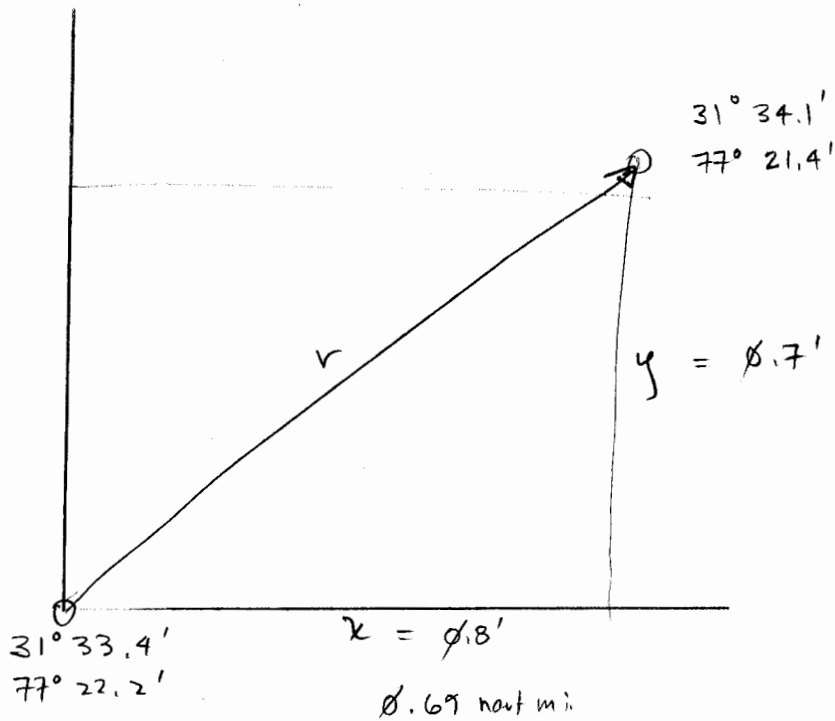
SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?

COMMENTS: ONE PRIME EXAMPLE OF MN Nodule in 2 pieces. Stored in white sample bags (2). The age of the forams are Pleistocene. Small amount of shell debris with Strombolis.

PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX.

OBSERVERS:

Station # 8, D5



$$r = \sqrt{x^2 + y^2}$$

$$r = \sqrt{(0.69)^2 + (0.7)^2}$$

$$r = 0.98 \approx 1.0 \text{ nautical miles}$$

(does not account for 3 m depth change)

Field Log Sheet

SAMPLE # D6
 STATION # 11

SHIP R/V Gyre CRUISE # 82-11 DATE 22 Sep 82

GENERAL AREA Blake Plateau - N.E. nodule area

EQUIPMENT Dredge - 48" clam

METHOD OF POSITIONING LORANS - INS

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	31° 46.5' N	77° 45.0' W	~1756Z	~692m	_____ °
	LORANS:				_____ °
START UP	31° 47.1'	77° 43.0'	1833Z		
	LORANS:				

RESULTS: # OF DROPS 1 IF MORE THAN 1, WHY? _____
 DISTURBED? _____

Label Procedure--indicate--
 Cruise No. 82-11 TOP
 Station # 11
 Core # D6 BOTTOM
 Top/Bottom--and Sect.#

LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY?		
BIOLOGY: WHAT & WHERE?		
SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?		
COMMENTS:		

NO RECOVERY

* PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX. *

OBSERVERS:

Field Log Sheet

SAMPLE # 0-7
STATION # 512

SHIP GYRE CRUISE # GYRE 82-G-11 DATE 22 SEPT 82

GENERAL AREA Blake Plateau N.E. nodule area

EQUIPMENT Dredge - 48" chain

METHOD OF POSITIONING LORAN-C Ins.

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	31°43.4	77°41.7	2020Z	722 m	1095m°
	LORANS:				
START UP					
	LORANS:				

RESULTS: # OF DROPS _____ IF MORE THAN 1, WHY?
DISTURBED? _____

Label Procedure--indicate--
Cruise No. TOP
Station # 1
Core # 3
BOTTOM 4

Top/Bottom--and Sect. #

LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY?

BIOLOGY: WHAT & WHERE?

SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?

COMMENTS:

Lost dredge on bottom.

SECTION
1
2
3
4
5
6
7
8
* PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX. *

OBSERVERS:

Field Log Sheet

SAMPLE # C7

STATION # 12

SHIP R/V Gyre

CRUISE # 82-11

DATE 22 Sep 82

GENERAL AREA Blake Plateau N.E. nodule area

EQUIPMENT Gravity core

METHOD OF POSITIONING LORANS-INS

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	31°42: 84 ₈ N	77 41. 47 ₅ W	21452	724 m	748 m .
	LORANS:				
START UP					
	LORANS:				

RESULTS: # OF DROPS 1 IF MORE THAN 1, WHY?

DISTURBED? _____

Label Procedure--indicate--

Cruise No. 8211 TOP

Station # 12

Core # 7 BOTTOM

Top/Bottom--and Sect. #

SECTION
1
2
3
4

LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY? 5 Sections; core catcher, core cutter, top of barrel, bottom barrel, washings, core nose - lithified carbonate tests

BIOLOGY: WHAT & WHERE? Planktic foraminifers; Globorotalia truncatulinoides, Globorotalia menardii, Globigerinoides tuber (some red), Neoglobobuadrina dutertrei, Globorotalia fumida, Globigerinoides sacculifer, Globigerinoides conglobatus, Turborotalia inflata, Orbulina universa, ~~Gastropods~~, Gastropods,

SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?

COMMENTS: Re-worked carbonate; iron-staining on carbonate. Age of forams are Pleistocene.

PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX.

OBSERVERS:

Field Log Sheet

SAMPLE # C-8
 STATION # 14

SHIP R/V Gyre CRUISE # 82-11 DATE 23 Sep 82

GENERAL AREA Blake Plateau - N.E. pavement area

EQUIPMENT Gravity cover

METHOD OF POSITIONING LORANS-INS

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	31° 55.5'	77° 36.4'	0902	705m	810m°
	LORANS:				
START UP					
	LORANS:				

RESULTS: # OF DROPS _____ IF MORE THAN 1, WHY? core lost when core banged on side
 DISTURBED? nearby 8000.0 pulled out fine
 Label Procedure--indicate--
 Cruise No. 82-11 TOP
 Station # 14
 Core # 8 BOTTOM
 Top/Bottom--and Sect. #

LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY?	
	1
	2
	3
	4
	5
	6
	7
	8

BIOLOGY: WHAT & WHERE?

SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?

COMMENTS: 1st ATTEMPT UNSUCCESSFUL - SCRAPPED SED. OFF OF OUTER CORE NOSE - APPEARS TO BE MARSHY. SCRAPINGS FROM TEETH OF CORE NOSE POSITIVE PHOSPHATE TEST!

OBSERVERS:

PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX.

Field Log Sheet

SAMPLE # C-9

STATION # 14

SHIP R/V GYRE

CRUISE # GYRE 82-11

DATE 23 Sep 82

GENERAL AREA Blake Plateau N.E. Pavement Area

EQUIPMENT Gravity Corer

METHOD OF POSITIONING Loran - INS

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	31° 55.5' N	77° 36.7' W	1041	719m	739m°
	LORANS:				
START UP					
	LORANS:				

6500 lbs pull out tension

RESULTS: # OF DROPS _____ IF MORE THAN 1, WHY?

DISTURBED? Received about 5" of core

Label Procedure--indicate--
 Cruise No. 82-11 TOP
 Station # 14
 Core # 9 BOTTOM
 Top/Bottom--and Sect. #

LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY?

Bottom of core more yellowish, white phosphates intensely fractured by impact, Above Manganese pavement (crud, pure, soft) about 3 1/2 - 4 cm

BIOLOGY: WHAT & WHERE?

topped by thin layer of carbonate ooze

SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?

COMMENTS:

no forams. Mineralogy: mixed manganese-phosphate phases, badly crushed & aggregated, grading to pure tan to buff phosphorite. Boundary zone shows dendritic encroachment of manganese. Some phosphates has ooid-type cavity fillings of manganese; possible recrystallization of phosphate around manganese. Very few polished phosphate grains. Reddish hematitic-looking material.

OBSERVERS:

PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX.

Field Log Sheet

SAMPLE # D8
STATION # 15

SHIP R/V Gyre CRUISE # 82-11 DATE 23 Sep 82

GENERAL AREA Blake Plateau, south central pavement area

EQUIPMENT Dredge - 24" chain bag

METHOD OF POSITIONING LORANS - INS

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	31° 24.6' N	78° 30.6' W	1947Z	635m	<u>1000m</u> °
	LORANS:				°
START UP	31° 24.3' N	78° 30.6' W	2013Z	632m	
	LORANS:				

RESULTS: # OF DROPS 1 IF MORE THAN 1, WHY?
DISTURBED? _____

Label Procedure--indicate--
Cruise No. 82-11 TOP
Station # 15
Core # D8 BOTTOM
Top/Bottom--and Sect. #

1
2
3
4

LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY? Various sized slabs of phosphate w/ Manganese coating

BIOLOGY: WHAT & WHERE? SPONGES, CORAL

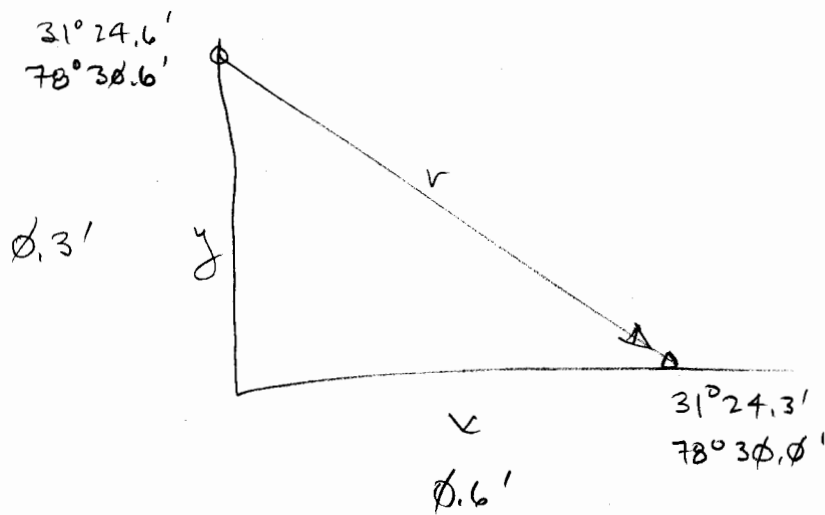
SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?

COMMENTS: flat bottom topography

PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX.

OBSERVERS: DeYoung,

Station 15, D8



$$r = \sqrt{x^2 + y^2}$$

$$r = \sqrt{(0.51)^2 + (0.3)^2}$$

$$r = 0.59 \text{ naut mi} \approx 0.6 \text{ naut mi}$$

(does account for 3m depth change!)

Field Log Sheet

SAMPLE # 09
STATION # 17

SHIP R/V GYRE CRUISE # 82-11 DATE 24 SEPT 82

GENERAL AREA Blake Plateau Central west of Blake Area

EQUIPMENT Dredge 36" chain bag

METHOD OF POSITIONING LORANS - TMS

Lower 2224

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	31° 1.3' 31° 1.24'	78° 23.2' 78° 23.31'	2245Z 2247Z	796 m	1110 m
	LORANS:				
START UP	31° 1.33' 31° 1.33'	78° 23.40' 78° 23.41'	2300 ✓		890 m
<u>on deck</u>	LORANS:		(2317)		

RESULTS: # OF DROPS 1 IF MORE THAN 1, WHY?
DISTURBED? _____

Label Procedure--indicate--
Cruise No. TOP
Station # 17
Core # 1
Bottom 4

LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY?
~~27 kg.~~ 65 Kgs.

NODULES + SLABS

BIOLOGY: WHAT & WHERE? CORAL

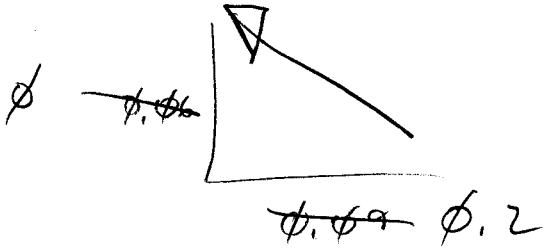
SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?

COMMENTS:

SECTION	1	2	3	4	5	6	7	8
INDICATE SECTION LENGTH IN APPROPRIATE BOX.								

OBSERVERS:

Poor targeting



$$r = \sqrt{(.85x)^2 + y^2}$$

$$r = \phi.2 \text{ naut. mi.}$$

Field Log Sheet

SAMPLE # D10

STATION # 18

SHIP Cyre

CRUISE # 82-6-11

DATE 24-25 Sep 82

GENERAL AREA Blake Plateau Patito Block Area

EQUIPMENT Middle Dredge 36" Chain Bag

METHOD OF POSITIONING LORANS - INS

over 8

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	31° 09.9' N	78° 22.8' W	2352Z	800m	1200m°
	LORANS:				
START UP	31° 1.02	78° 23.4' W	0028		815m
	LORANS:				

RESULTS: # OF DROPS 1 IF MORE THAN 1, WHY?

DISTURBED? _____

Label Procedure--indicate--

Cruise No. TOP

Station #

Core #

Top/Bottom--and Sect. #

BOTTOM

SECTION
1
2
3
4

LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY?

~ 200 kg nodules, igneous rock (1)
with quartz, apatite, ? Hornblende,
thin coating of manganese.

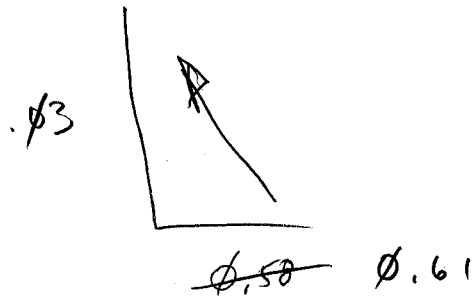
BIOLOGY: WHAT & WHERE?

SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?

COMMENTS:

PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX.

OBSERVERS:



$$r = \sqrt{(.85x)^2 + y^2}$$

$$r = \phi.5 \text{ hart. mi.}$$

Field Log Sheet

SAMPLE # 011
STATION # 19

SHIP GyRE CRUISE # 82-G-11 DATE 2/29/82
25 Sep 82

GENERAL AREA Blake Plateau PATCO Block Area

EQUIPMENT Small Dredge

METHOD OF POSITIONING LORANS - INS.

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	30° 59.826	78° 21.274	0218	840	950.
	LORANS:				
START UP	30° 59.86	78° 21.33	0240	825	
	LORANS:				

RESULTS: # OF DROPS _____ IF MORE THAN 1, WHY?
DISTURBED? _____

Label Procedure--indicate--
Cruise No. TOP 1
Station # 2
Core # 3
BOTTOM 4
Top/Bottom--and Sect. #

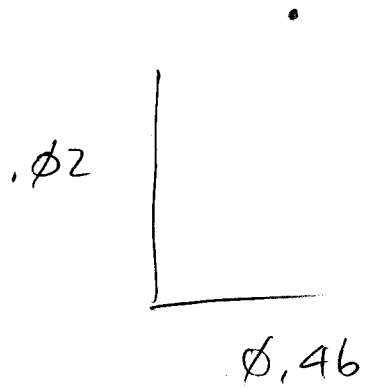
LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY?	SECTION
<u>~ 400 lbs nodules, slabs, boulders carbonate sand & gravel</u>	1
	2
<u>BIOLOGY: WHAT & WHERE? Deep water corals, Alcyonarian corals & rounded carbonates</u>	3
	4
<u>SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS? Rich in scaphopod, gastropod, & pteropods. Some miliolids. Planktic forams: <i>Orbulina</i> <i>univerrsa</i>, <i>Globigerinoides sacculifer</i>, <i>G. ruber</i>, <i>Globorotalia truncatulinoides</i>, <i>Globorotalia</i> <i>menardii</i>, <i>Globogirrenella nequilateralis</i>, <i>Globorotalia tumida</i>, <i>Neoglobobulimina dutertrei</i>, <i>Pulleniatina obliquiloculata</i>, <i>Globorotalia scitula</i>. An assemblage is tentatively Pleistocene. There are possibly several Pliocene <i>Toesoni</i>, however, they may be atypical <i>truncatulinoides</i>.</u>	5
	6
	7
	8

COMMENTS: Several pits, near 10,000 lb in
w. by Texaco. only small amount of iron-staining.

OBSERVERS:

*PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX. *

1. 2/16



$$r = \sqrt{(0.85x)^2 + y^2}$$

$$r = 0.4 \text{ naut. mi}$$

Field Log Sheet

SAMPLE # C-10

STATION # 20

SHIP Gyre CRUISE # 82-11 DATE 25 Sept 92

GENERAL AREA Blake Plateau PATIO Block area

EQUIPMENT Corer

METHOD OF POSITIONING Loran

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	31° 00.03'	78° 23.34'	0407Z	800 m	_____°
	LORANS:				_____°
START UP					
	LORANS:				

RESULTS: # OF DROPS _____ IF MORE THAN 1, WHY?
 DISTURBED? _____

Label Procedure--indicate--
 Cruise No. TOP
 Station #
 Core #
 BOTTOM SECTION

Top/Bottom--and Sect.#

LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY?

BIOLOGY: WHAT & WHERE?

SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?

COMMENTS:

lost core cutter on bottom - no sample

	1
	2
	3
	4
	5
	6
	7
	8

PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX.

OBSERVERS:

Field Log Sheet

SAMPLE # _____
STATION # 20

SHIP Gyre CRUISE # 82-11 DATE 9-25-82

GENERAL AREA Blake Plateau Ratio Block Area

EQUIPMENT Data Sonics bottom pinger (27 kHz, 0.2 msec pulse)

METHOD OF POSITIONING Loran - SatNav

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	31° 1.0622' N	78° 23.582' W	0518	800 m	800 m °
	LORANS:				°
START UP	31° 0.9388' N	78° 24.296' W	0605		
	LORANS:				

RESULTS: # OF DROPS 1 IF MORE THAN 1, WHY?
DISTURBED? _____

Label Procedure--indicate--
Cruise No. TOP 1 SECTION
Station # 3
Core # 4 BOTTOM

Top/Bottom--and Sect. #

LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY?

BIOLOGY: WHAT & WHERE?

SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?

COMMENTS: Bottom reflection disturbance at delay of .25 msec indicates subbottom depth of 0.25 - 0.5 m (2000-4000 m/s velocity)

PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX.

OBSERVERS: SUNDKVIST

Field Log Sheet

SAMPLE # _____

STATION # 20

SHIP Cyre

CRUISE # 82-11

DATE 9-25-82

GENERAL AREA Blake Plateau Patia Block Area

EQUIPMENT Dohu Sonics bottom pinger (15 kHz, 0.2 m sec pulse)

METHOD OF POSITIONING Loran - SofNav

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	31° 0.965' N	78° 23.353' W	0736	860 m	800 m °
	LORANS:				°
START UP					
	LORANS:				

RESULTS: # OF DROPS 2

DISTURBED? _____

IF MORE THAN 1, WHY?
NO SIGNAL UPON FIRST
DEPLOYMENT

Label Procedure--indicate--

Cruise No. TOP

Station # 1

Core # 3

BOTTOM

Top/Bottom--and Sect.#

SECTION

LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY?

BIOLOGY: WHAT & WHERE?

SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?

COMMENTS:

Bottom reflection disturbance at time delay of
0.3 msec indicates subbottom depth of
.3 - .6 m (2000-4000m/s velocity)

PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX.

OBSERVERS: SUNDRIST

Field Log Sheet

SAMPLE # _____

STATION # 20

SHIP Gyre

CRUISE # 82-11

DATE 9-25-82

GENERAL AREA Blake Plateau Patia Block Area

EQUIPMENT Data Sonics bottom ping (27kHz, 2m sec pulse)

METHOD OF POSITIONING _____

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	31° 10.9949' N	78° 23.950' W	1048	800 m	_____ °
	LORANS:				_____ °
START UP	31° 0.9299' N	78° 22.950' W	1112		
	LORANS:				

RESULTS: # OF DROPS 1 IF MORE THAN 1, WHY?

DISTURBED? _____

Label Procedure--indicate--

Cruise No. TOP

Station #

Core #

Top/Bottom--and Sect. #

BOTTOM

SECTION
1
2
3
4

LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY?

BIOLOGY: WHAT & WHERE?

SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?

COMMENTS:

.15-.3 m sec amplitude and phase disturbances
indicates sediment depth of .15-.6 m (assuming 27k velocity.)

PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX.

OBSERVERS: GARDNER

Field Log Sheet

SAMPLE # C-11

STATION # 20

SHIP Gyre

CRUISE # 82-11

DATE 9-25-82

GENERAL AREA Blake Plateau Palis Block Area

EQUIPMENT Piston Core

METHOD OF POSITIONING Loran - Sat Nav

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	31° 1.041'	78° 23.185'	1228	800 m	830 m °
	LORANS:				°
START UP					
	LORANS:				

RESULTS: # OF DROPS 1 IF MORE THAN 1, WHY?
 DISTURBED? Recovered 6" of black pavement

Label Procedure--indicate--
 Cruise No. 82-11 TOP
 Station # 20
 Core # 11 BOTTOM
 SECTION 1 2 3 4

LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY?

Top 2 sample knobby pavement overlain by thin carbonate sand (few mm) [Most of nose material not yet analyzed - waiters cutting of core off at 4401] Bottom of core earthy, black soft Mn crust (possibly

BIOLOGY: WHAT & WHERE? bottom of slab. Some carbonate admixture

sample scraped from broken pieces of core nose are phosphate but it is not certain that the re-used cutter did not pick up any part of material in earlier drop. Probably not. Clearly, cutter slammed into very hard material -

SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?

not cemented carbonate which is easily cut.

COMMENTS:

Pull-out tension 7000 lb
 Core cutter distorted, and containing black material (manganese)
 Core barrel (rather bent).

PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX.

OBSERVERS:

Field Log Sheet

SAMPLE # _____

STATION # 21

SHIP Gyre

CRUISE # 82-11

DATE 25 Sept. 82

GENERAL AREA Southwest Blake Plateau

EQUIPMENT Datasonics Bottom Piv.

METHOD OF POSITIONING Loran - Saina

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	31° 7.7545' N	78° 56.752' W	1643	660m	_____ °
	LORANS:				_____ °
START UP					
	LORANS:				

RESULTS: # OF DROPS 1 IF MORE THAN 1, WHY?

DISTURBED? _____

Label Procedure--indicate--

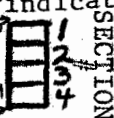
Cruise No. TOP

Station # _____

Core # _____

Top/Bottom--and Sect.#

BOTTOM



LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY?

BIOLOGY: WHAT & WHERE?

SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?

COMMENTS:

Initially a disturbance of the bottom reflected signal was observed at 0.2 msec lag indicating subbottom at 0.2-0.4m depth (2000-4000 msec velocity). Later the disturbance moved through the signal - possibly due to scattering from bottom topography as we drifted by

OBSERVERS: SANDICIST

* PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX. *

Field Log Sheet

SAMPLE #	
STATION #	21

SHIP Gyre CRUISE # 82-11 DATE 25 Sept 82

GENERAL AREA Southern & Blake Plateau

EQUIPMENT Datasonic Bottom profiler (215 kHz, 12 msec pulse) and streaming hydrophone on 1000 foot lead

METHOD OF POSITIONING _____

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	31° 7.8135' N	78° 57.163' W	1857	660 m	_____°
	LORANS:				_____°
START UP					
	LORANS:				

RESULTS: # OF DROPS	1	IF MORE THAN 1, WHY?	
DISTURBED?			

Label Procedure--indicate--

Cruise No. TOP

Station #

Core #

Top/Bottom--and Sect.#

SECTION

LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY?	
BIOLOGY: WHAT & WHERE?	
SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?	
COMMENTS:	

1

2

3

4

5

6

7

8

* PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX. *

OBSERVERS:

Field Log Sheet

SAMPLE # D-12

STATION # 23

SHIP GYRE CRUISE # 82-G-11 DATE 26 Sept 82

GENERAL AREA Blake plateau S.W. pavement Area

EQUIPMENT 38" Dredge

METHOD OF POSITIONING Loran

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	31° 7.4	78° 56.6	0226	670 m	1000 m°
	LORANS:				
START UP	31° 7.8	78° 56.7	0241	670 m	1000 m.
	LORANS:				

RESULTS: # OF DROPS 1 IF MORE THAN 1, WHY?
 DISTURBED? _____

Label Procedure--indicate--
 Cruise No. TOP 1 SECTION
 Station # 23 2
 Core # BOTTOM 4

LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY?

5m Phos plates, P. Nodules!, chunks of carbonate

BIOLOGY: WHAT & WHERE?

SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?

COMMENTS:

1	*PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX.*
2	
3	
4	
5	
6	
7	
8	

OBSERVERS:

Field Log Sheet

SAMPLE # D-13

STATION # 24

SHIP R/V Gyre CRUISE # 82-11

DATE 26 Sep 82

GENERAL AREA Blake Plateau

EQUIPMENT Dredge - 24"

METHOD OF POSITIONING LORANS-INS

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	31° 6.3'	78° 50.6'	0415 Z	710 - 735 m (canyon - 2 reflections)	_____ °
	LORANS:				_____ °
START UP	31° 6.7'	78° 51.1'	0443 Z	696 m	
	LORANS:				

RESULTS: # OF DROPS 1 IF MORE THAN 1, WHY?

DISTURBED? _____

Label Procedure--indicate--

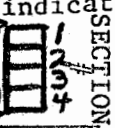
Cruise No. 82-11 TOP

Station # 24

Core # D-13

Top/Bottom--and Sect. #

BOTTOM



LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY?

BIOLOGY: WHAT & WHERE?

SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?

COMMENTS:

lost dredge

* PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX. *

OBSERVERS:

Field Log Sheet

SAMPLE # D-14

STATION # 24

SHIP R/V Gyre CRUISE # 82-11

DATE 26 Sep 82

GENERAL AREA Blake Plateau

EQUIPMENT Dredge - 24"

METHOD OF POSITIONING LORANS - INS

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	31° 6.3'	78° 50.5'	0631Z	718 m	> 1000m
	LORANS:				
START UP	31° 6.45'	78° 50.46'	0702Z	0702 m	
	LORANS:				

RESULTS: # OF DROPS 1 IF MORE THAN 1, WHY?

DISTURBED? _____

Label Procedure--indicate--

Cruise No. 82-11 TOP

Station # 24

Core # D-14 BOTTOM

Top/Bottom--and Sect. #

SECTION
1
2
3
4

LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY?

Small Mn-P plates

BIOLOGY: WHAT & WHERE?

SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?

COMMENTS:

PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX.

OBSERVERS:

Field Log Sheet

SAMPLE # 015
STATION # 25

SHIP R/V GYRE CRUISE # 82-G-11 DATE 82 09 26

GENERAL AREA Southwest Blake Plateau - "triple junction"

EQUIPMENT Dredge 24" chain

METHOD OF POSITIONING LORAN - INS

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	31 00.5	78 59.6	0859	777 m	1000 m °
	LORANS:				°
START UP	31 00.7	78 59.4	(0817) 0924	760 m	
	LORANS:				

RESULTS: # OF DROPS 1 IF MORE THAN 1, WHY?
DISTURBED? _____

Label Procedure--indicate--
Cruise No. TOP 1
Station # 2
Core # 3
BOTTOM 4
SECTION

LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY?
some carbonate (15%), soft ~~coral~~ and hard coral (10%) 15 kg. Pure Manganese slabs

BIOLOGY: WHAT & WHERE?

SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?

COMMENTS:

PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX.

OBSERVERS:

Field Log Sheet

SAMPLE # D-16
STATION # 26

SHIP R/V GYRE CRUISE # 82-G-11 DATE 26 SEPT 82

GENERAL AREA S. Blake Plateau

EQUIPMENT 29" Dredge Chain Bag

METHOD OF POSITIONING LORAN INS

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	30° 52.15	78° 49.47	1112	825m	1000m°
	LORANS:				
START UP	30° 52.4	78° 48.8	1137	740m	
	LORANS:				

RESULTS: # OF DROPS 1 IF MORE THAN 1, WHY?
DISTURBED? _____

Label Procedure--indicate--
Cruise No. TOP 1
Station # 2
Core # 3
BOTTOM 4
SECTION

LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY?
and one bowl only ~ 5 kgs.

Carbonate chunks w/ coral
hard, soft

BIOLOGY: WHAT & WHERE?

SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?

COMMENTS:

PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX.

OBSERVERS: R. Hall C. Lane

Field Log Sheet

SAMPLE #	D.17
STATION #	27

SHIP Gyde CRUISE # 82-11 DATE 26 Sept 1982

GENERAL AREA Black Plateau S.W.

EQUIPMENT Small Dredge

METHOD OF POSITIONING Loran

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	30° 42.89	78° 37.83	1324	835 m	890°
	LORANS:				
START UP	30° 42.80	78° 37.63	1334	835 m	1150 m
	LORANS:				

RESULTS: # OF DROPS 1 IF MORE THAN 1, WHY? Label Procedure--indicate--

DISTURBED? ~ 10 kilos Cruise No. 82-11 TOP SECTION

Station # 27 BOTTOM SECTION

Core # Top/Bottom--and Sect.#

LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY?	
<u>3 cemented carbonite 5cm-25cm, bored + Fe stained</u>	1
<u>manganese-phosphate slabs 7-10cm, rounded, slabs + cobbles</u>	2
<u>some Mn plates are almost pure, others 50% phosphate</u>	
BIOLOGY: WHAT & WHERE?	
<u>large fan sponges, deep water coral heavily stained</u>	3
<u>with Fe + Mn. Pleistocene assemblage of planktic foraminifera on</u>	4
<u>both the weathered and underside.</u>	
SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?	
	5
	6
	7
	8

COMMENTS: Found on flat Terrain with slight surface
corrosion & acoustical double layering 15-20m

OBSERVERS:

PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX.

Field Log Sheet

SAMPLE # D-18
STATION # 28

SHIP Gyre CRUISE # 82-11 DATE 26 Sept 82

GENERAL AREA Blake plateau S.W. corner

EQUIPMENT Small dredge

METHOD OF POSITIONING Lozan

	LATITUDE	LONGITUDE	TIME	SONIC DEPTH	WIRE DEPTH
ON BOTTOM	30°34.99	78°39.11	1501	815 m.	920 °
	LORANS:				°
START UP	30°34.8	78°38.3	1555	810 m	1250 m
	LORANS:				

RESULTS: # OF DROPS 1 IF MORE THAN 1, WHY? Label Procedure--indicate--
 DISTURBED? Only one first size Carbonate ooze rocks + organics
 Core # 18 SECTION 1
 Station # 28 2
 Top/Bottom--and Sect. # 3 4
 BOTTOM

LITHOLOGY: TEXTURE, COLOR, HOMOGENEITY?	BIOLOGY: WHAT & WHERE?	SURFACE MORPHOLOGY: RIPPLES, SHELL DEBRIS, ORGANICS?	SECTION
<u>Carbonate ooze 5x8 cm yellowish sand and bored; several pink algal remains coral on deep water coral rubble</u>	<u>↓</u>		1
			2
			3
			4
			5
			6
			7
			8

COMMENTS: Second dredge to 3500
no breakup in dredge may have lost small pebbles, seen in DSV TV scans.

OBSERVERS:

PLEASE INDICATE SECTION LENGTH IN APPROPRIATE BOX.