OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V REVELLE — Ship Station # 1

Cruise: KNOX55RR — Leg: 1 — Core Name & Station # NR0705-01GC

Mo/Day/Yr 05 / 08 / 2007 — Observer GOLDFINGER

Latitude: launch 4 D 34 .1066 min (N) S
on bottom 4 D 34 .1097 min N S

Longitude: launch 92 D 58 .0956 min (E) W
on bottom 92 D 58 .0928 min E W

Navigation Type:
Loran SatNav (GPS) (PCODE) other_____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
Kasten - K
Gravity - GC (BENTHOS)
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR
Other _____

	launched	on bottom	recovered	
Time:	2236	2332		(GMT)
Water Depth:	4436	4434		Meters
Wire:	0	4479		Meters

Piston Core Length: 20 40 60 80 100 other ✓

Scope: ✓

Trigger Line Length: ✓

Safety Pin Size: ✓ or Actuating Depth: ✓

Pinger (Meters above corehead): 75m

Tension:

Prior to trip:	~1300
On Bottom:	1100
Pullout (max):	1685
Ascending:	1710

X	depth
1	750
2	1500
3	2250
4	3000
5	3770

Other Samplers:

Type & No: Section Length:

X	depth
1	

Remarks:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	18	0	18	NO MST

Revised 4/00

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V REVELLE

Ship Station # 2

Cruise: _____ Leg: 1

Core Name & Station # RR0705-02GC

Mo/Day/Yr 05 / 09 / 2007 JD129

Observer GOLDFINGER

Latitude: launch 4° D 32 . 1859 min (N) S

on bottom 4° D 32 . 1854 min (N) S

Longitude: launch 92° D 56 . 0420 min (E) W

on bottom 92° D 56 . 0398 min (E) W

Navigation Type:
Loran SatNav (GPS) (PCODE) other_____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
Kasten - K
(Gravity - GC) BENTHOS
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR

Other _____

	launched	on bottom	recovered	
Time:	0134	0231		(GMT)
Water Depth:	4483	4483		Meters
Wire:	0	4510		Meters

Piston Core Length: 20 40 60 80 100 other____

Scope: X

Trigger Line Length: X

Safety Pin Size: X or Actuating Depth: X

Pinger (Meters above corehead): 75

Tension: Surface:

Prior to trip:	1400lb
On Bottom:	997lbs
Pullout (max):	1668lbs
Ascending:	

X	Wire
1	790
2	1550
3	2300
4	3060
5	3820

Other Samplers:

Type & No: Section Length:

_____

_____

_____

_____

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks

Remarks: 60m/min going into Bottom
Pinger @ 75m wire out
up @ 10 m/min

Revised 4/00

OSU Oceanography

MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle

Ship Station # 2 P

Cruise: KNOX05RR Leg: 1

Core Name & Station # RR-0705-03JC

Mo/Day/Yr 05 / 09 / 2007

Observer Romsos / Moser

Latitude: launch 4 D 32 . 1846 min (N) S

on bottom 40 D 32 . 1852 min N S

Longitude: launch 92 D 56 . 0402 min (E) W

on bottom 92° D 56 . 0397 min E W

Navigation Type:

Loran SatNav (GPS) (PCODE) other_____

Sampler types

2.5" Piston Core - PC

4" Piston Core - JC (PC JRP→currently take 4"PC 20')

Kasten - K

Gravity - GC

Box Core - BC

Multi Corer - MC

Rock Core - RC

Shipek Grab - SG

Dredge - DR

Other _____

	launched	on bottom	recovered	
Time:	04:30	0656		(GMT)
Water Depth:	4482			Meters
Wire:	0	4437		Meters

Piston Core Length: (20) 40 60 80 100 other____

Scope: 26.75'

Trigger Line Length: 32' (trigger)

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): NA

Tension: Surface: 4,000lb (wire = 61.4 m)

Prior to trip: ____ 10,600lb

On Bottom: 61341bs @4437mwo

Pullout (max): 13063lbs

Ascending: _____

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
TC 1	46.7	0	46.7	
TC 2	145.7	46.7	192.4	
PC 1	150	0	150	
PC 2	123.5	150	273.5	

Other Samplers:

Type & No: Section Length:

Remarks:

- 7 lead weights on Trigger (TC).
- No PIGS.
- Shock Absorber Installed. (single washer pairs).
- Hydrostatic Pin.
- Flat. - 40m/minute

Revised 4/00

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V ROBERT G. SPROUL Ship Station # 3

Cruise: KNOX05RR Leg: LONG Core Name & Station # RR0705-04KC

Mo/Day/Yr 05 / 09 / 2007 Observer WILSON/KASTEN

Latitude:	launch	04°	D 18	.443	min	(N)	S
	on bottom	04	D 18	.444	min	(N)	S
Longitude:	launch	92°	D 56	.027	min	(E)	W
	on bottom	92	D 56	.021	min	(E)	W

Navigation Type: Loran SatNav (GPS) (PCODE) other_____

	launched	on bottom	recovered	
Time:	1500	1652		(GMT)
Water Depth:	4540m			Meters
Wire:	0	4505		Meters

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
(Kasten - K)
Gravity - GC
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR
Other _____

40m/min max rate!

Piston Core Length: 20 40 60 80 100 other____

Scope: KASTEN

Trigger Line Length:_____

Safety Pin Size:_____ or Actuating Depth:_____

Pinger (Meters above corehead): 75m

Tension: Surface: _____

Prior to trip:	11,500
On Bottom:	7000
Pullout (max):	17,028
Ascending:	13,000

X	wire
1	822
2	1576
3	2322
4	3072
5	3822

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
Note:	1745Z - wire stopped			
	to grease crane			
	trawl block!			
NO	RECOVERY			
due to cutter door failure: the				
doors were blown out and bent.				
all sediment was lost.				

NOTE: Bad bolts on crane base sheave! ↑

USED GRINDER TO CLEAN PIG TUBE.

Remarks:
KASTEN HAS 4 PIGS.
KASTEN FLAPS TAPED OPEN.
ROUGH LAUNCH NEXT TIME PREP CRANE OP TO BOOM DOWN.

Revised 4/00

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle

Ship Station # 4

Cruise: KNOX OSRR Leg: 1

Core Name & Station # RR0705-05PC

Mo/Day/Yr 07 / 10 / 07

Observer Sapta / PATTON

Latitude: launch 04 D 28 . 822 min (N) S
on bottom 04 D 28 . 8225 min (N) S

Longitude: launch 92 D 55 . 609 min (E) W
on bottom 92 D 55 . 6100 min (E) W

Navigation Type:
Loran SatNav (GPS) (PCODE) other_____

Sampler types
2.5" Piston Core - PC
4" Piston Core - ~~JC~~ PC JRP
Kasten - K
Gravity - GC
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR
Other _____

we only take 4" PC

	launched	on bottom	recovered	
Time:	0049	0242		(GMT)
Water Depth:	4497	4498		Meters
Wire:	8.5	4470		Meters

Piston Core Length: (20) 40 60 80 100 other____

Scope: 26.75'

Trigger Line Length: 32'

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): NA

Tension: Surface: 5250
Prior to trip: 10500
On Bottom: 7500
Pullout (max): 16076
Ascending: 12800

Payout	Tension (#)
1500	6900
2000	7700
3000	8500
4000	10200
4000	12 000
3500	11 200
3000	10 600
2500	9 800
2000	8 600
1500	7 800
1000	7280
500	6600

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	34.8	0	34.8	
2	150.8	34.8	185.6	
3	123.1	185.6	308.7	
1	92.2			

Remarks:
- TWO PIGS
- SHOCK ABSORBER (SINGLE WASHER PAIRS)
- 40 MPM
- FLAT
- 7 lead rings on Trigger Core

- pullout out greater than 5 mpm
  ↳ PC triple cored at station #2
  ∴ 10 mpm

Revised 4/00

This core (06KC) was redeployed in the same location and is described on the next page. The reason is that this deployment did not reach the ocean floor.

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V REVELLE

Ship Station # 4

Cruise: KNOX05RR Leg: 1

Core Name & Station # ~~RR0705-06KC~~ JR0 CO1

Mo/Day/Yr 5 / 10 / 07

Observer PATTON

Latitude: launch 4 D 28 . 821 min (N) S

on bottom — D — . — min (N) S

Longitude: launch 92 D 55 . 610 min (E) W

on bottom — D — . — min (E) W

Navigation Type:
Loran SatNav (GPS) (PCODE) other_____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
(Kasten - K)
Gravity - GC
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR
Other _____

	Payout	tension
	2000	

	launched	on bottom	recovered	
Time:	08:37	—	1345	(GMT)
Water Depth:	4498	—	4497	Meters
Wire:	4.6	—		Meters

Piston Core Length: 20 40 60 80 100 other 10

Type: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): Y 75m

Tension: Surface 5500

Prior to trip: _____

On Bottom: _____

Pullout (max): _____

Ascending: _____

X	PAYOUT
1	810
2	1570
	—

Other Samplers:

Type & No: Section Length:

_____

_____

_____

_____

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
NO RECOVERY				
Bad sheave on crane pedestal between rams.				

Remarks: - Kasten core with R/V Revelle modified door flaps (① flat stock welded to flaps ② flat stock bolted to cutter)
- 40 mpm -,
- 1289 m stopped due to large sound, resumed slow descent @ 30 mpm, chief engineer on deck listening w/ capt., then up to 38 mpm; 0 mpm @ 2018 payout
- OSU coring tech Wilson Aborted coring to preserve gear and to clear the deck for safety concerns @ 09:47; pullout 8 mpm

Revised 4/00

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle

Ship Station # 4 06KC

Cruise: KNOX05RR Leg: 1

Core Name & Station # RR0705 - ~~07KC~~

Mo/Day/Yr 5 / 10 / 07 (GMT)

Observer ROMSOS / PATTORS

1st CORE of same ship station because first attempt did not reach ocean floor, we named this core the same core name. Orig. called 07KC is now renamed 06KC

CG JRP

Latitude: launch 04 D 28 . 823 min (N) S

on bottom 04 D 28 . 823 min (N) S

Longitude: launch 92 D 55 . 609 min (E) W

on bottom 92 D 55 . 609 min (E) W

Navigation Type:
Loran SatNav (GPS) (PCODE) other_____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
(Kasten - K)
Gravity - GC
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR
Other _____

	launched	on bottom	recovered	
Time:	18:21:00	20:18:00	22:20:00	(GMT)
Water Depth:	4498	4498	4497	Meters
Wire:	0	4493	0	Meters

Piston Core Length: 20 40 60 80 100 other 10

Scope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75m

Tension: @ SURFACE = 5,600 lb.

Prior to trip:	14,100 lb.
On Bottom:	7,000 lb.
Pullout (max):	16,300 lb
Ascending:	15,000 lb

X	Payout
1	810
2	1560
3	2305
4	3055
5	3810
4	3800
3	
2	
1	

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
				* poor penetration = less mud to weigh down on cutter doors to keep them closed.
NO RECOVERY				
• possibly due to a combination				
of (1) poor penetration - mud				
coated lower 3' (10%) of outside				
of corer - however, did not clean				
corer prior to deployment				
(2) the corer was deployed from				
A frame so vertical movement				
during recovery was greater				
and may have flushed any mud				
out (3) cutter door springs were				
not strong enough to hold doors				
closed (we reinstalled them for				
next deployment but door still				
rubs on cutter).				

Remarks: - 4 pigs - Kasten deployed from stern A-frame.
- 40 m/m into the bottom / 5m/min recovery pullout.
- lost pinger signal @ approx 3250m on ascent.
40m/min. At 1,000m w/o 50m/min.
At 2000m w/o 60m/min.

Revised 4/00

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle

Ship Station # 4

Cruise: KNOX05RR Leg: 1

Core Name & Station # RR0705 - ~~08MC~~ 07MC

Mo/Day/Yr 5 / 11 / 07

Observer ROMSOS

Latitude:	launch	4	D 28 . 793 min	N	S
	on bottom		D . min	N	S
Longitude:	launch	92	D 55 . 637 min	E	W
	on bottom		D . min	E	W

Navigation Type:
Loran SatNav GPS PCODE other_____

CG JRP Correct => After we renamed 07KC to 06KC (the same ship station only one KC to ocean floor), we renamed 08mc to 07MC

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
Kasten - K
Gravity - GC
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR
Other _____

	launched	on bottom	recovered	
Time:	00:18			(GMT)
Water Depth:	4498			Meters
Wire:				Meters

Piston Core Length: 20 40 60 80 100 other____

Scope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75

Tension: @surface 100016

Prior to trip:	
On Bottom:	~~7~~500
Pullout (max):	11206
Ascending:	9500

x	m
1	810
2	1560 (+750)
3	2310 (+750)
4	3060
5	3810

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
	1			

Remarks: - 4 snow shoes - flat seas
- 1 sticky actuating pin
- deployed from stern A-frame

Revised 4/00

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle — Ship Station # 5

Cruise: KNOX05RR — Leg: 1 — Core Name & Station # RR0705 - ~~08GC~~ 09GC

Mo/Day/Yr 5 / 11 / 07 — Observer Romsos

CG JRP This core was incorrectly labelled 09GC. Therefore it was corrected to 08GC

Latitude:	launch	03	D 36 . 284	min	N	S
	on bottom	03	D 36 . 283	min	N	S
Longitude:	launch	93	D 19 . 074	min	E	W
	on bottom	93	D 19 . 074	min	E	W

Navigation Type: Loran SatNav GPS PCODE other_____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
Kasten - K
Gravity - GC (4" Big Bertha)
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR
Other _____

	launched	on bottom	recovered	
Time:	1910	2038		(GMT)
Water Depth:	4509	4502		Meters
Wire:	0			Meters

~~Piston~~ Core Length: 20 40 60 80 100 other 10

Rope:_____

Trigger Line Length:_____

Safety Pin Size:_____ or Actuating Depth:_____

Pinger (Meters above corehead): 75 m

Tension: @ Surface = 5700 lb

Prior to trip:	13,600
On Bottom:	8,200
Pullout (max):	16,900
Ascending:	14,100

X	Zm
1	820
2	1570
3	2320
4	3070
5	3820

Other Samplers:

Type & No: Section Length:

_____

_____

_____

_____

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
				Recovered very small amount
				of very well sorted fine
				sand.

Remarks: 4" Gravity Core - Big Bertha, deployed from A-Frame (stern)
4 pigs. 60 m/min into bottom / 10 m/min recovery pullout.

OSU Oceanography (~~852~~) ✓

MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle

Ship Station # 6

Cruise: KNOX05RR Leg: 1

Core Name & Station # RR0705-~~10GC~~ 09GC

Mo/Day/Yr 5 / 12 / 07

Observer PATTON

JRP Because 08GC was incorrectly labelled 09GC and this was not determined until this core was labelled 10GC, this core was corrected to 09GC

Latitude:	launch	3	D 34 . 20	min	N	S
	on bottom	3	D 34 . 20	min	N	S
Longitude:	launch	93	D 07 . 79	min	E	W
	on bottom	93	D 07 . 80	min	E	W

Navigation Type: Loran SatNav GPS PCODE other_____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
Kasten - K
Gravity - GC
Box Core - BC
Multi Corer - MC (Benthos)
Rock Core - RC
Shipek Grab - SG
Dredge - DR

Other _____

	launched	on bottom	recovered	
Time:	07:20	08:11		(GMT)
Water Depth:	4541	4541		Meters
Wire:				Meters

Piston Core Length: 20 40 60 80 100 other 10

Rope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75m

Tension: Surface

Payout # 550 404

Prior to trip:	1200
On Bottom:	1200
Pullout (max):	1680
Ascending:	1600

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
NO	RECOVERY			
o less	than 1 cc of	fine		
grained	sediment re	covered		
in core	catcher. No	sand		
found	in sediment.	Z	planktic	
foraminifera	found	in sieved		
sample.				
o no re	covery po	ssibly	due to	
hard	sand at	sea	floor?	

Remarks: ~ 100mPM

SEEMED LIKE A GOOD PULLOUT. ✓

Revised 4/00

OSU Oceanography (OSS) ✓

MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V REVELLE

Ship Station # 7

Cruise: KNOX 05 Leg: 1

Core Name & Station # RR0705-10GC

Mo/Day/Yr 05 / 12 / 2007

Observer PATTON

Latitude:	launch	3	D 27 . 394	min	N	S
	on bottom	3	D 27 . 394	min	N	S
Longitude:	launch	93	D 01 . 483	min	E	W
	on bottom	93	D 01 . 483	min	E	W

Navigation Type: Loran SatNav GPS PCODE other_____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
Kasten - K
Gravity - GC (BENTHOS)
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR

Other _____

	launched	on bottom	recovered	
Time:	11:14	12:06		(GMT)
Water Depth:	4478	4481		Meters
Wire:	75	4551		Meters

Piston Core Length: 20 40 60 80 100 other 10

Rope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75

Tension: Surface: 220

		PAYOUT	TENSION
Prior to trip:	1200		
On Bottom:	807	1000	457
Pullout (max):	1697	4200	1400
Ascending:	1500		

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	23	0	23	(No MST)

Other Samplers:

Type & No:	Section	Length:

Remarks: ~100 mpm descent - stopped @ 4200, 100 mpm to sea floor
- flat seas 5 mpm pullout, incr to 10 mpm, incr to 100 mpm
Stop @ 200 m.

Revised 4/00

OSU Oceanography (~~851~~) ✓

MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V REVELLE

Ship Station # 8

Cruise: KNOX05 Leg: 1

Core Name & Station # RR0705-11GC

Mo/Day/Yr 5 / 12 / 07

Observer PATTON

Latitude: launch 3 D 28 . 927 min N S

on bottom 3 D 28 . 927 min N S

Longitude: launch 93 D 03 . 924 min E W

on bottom 93 D 03 . 924 min E W

Navigation Type:
Loran SatNav GPS PCODE other_____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
Kasten - K
Gravity - GC 4" Big Bertha
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR
Other _____

	launched	on bottom	recovered	
Time:	15:26	17 10		(GMT)
Water Depth:	4514	4515		Meters
Wire:	0	4507		Meters

Piston Core Length: 20 40 60 80 100 other 10

Rope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75M

Tension:

		Payout	Tension
Surface	5600		
Prior to trip:	14,000	1588	8500
On Bottom:	8000	2331	10,000
Pullout (max):	19560	3073	10,730
Ascending:	14,000	3830	

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
				* NO RECOVERY ABOVE CORE catcher - very small smear of sandy silt on inside of core cutter

Remarks:
- All 4 PIGS in Bomb
- 4" Big Bertha Gravity Core deployed from Stern A frame
- began @ 40 mpm, increased to 60 mpm @ 985 m payout
- decreased back to 40 m/min → core had a piston core weight core catcher w/ sock

→ WINCH stopped @ 2957, speed varying 55-65 mpm
→ WINCH RESTARTED @ 40 mpm

Revised 4/00

OSU Oceanography ~~(855)~~

MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle

Ship Station # 8

Cruise: KNOX05RR Leg: 1

Core Name & Station # RR0705 - 12GC

Mo/Day/Yr 5 / 12 / 07

Observer Ramsos

Latitude:	launch	03	D 28 . 928	min	N	S
	on bottom		D 28 . 927	min	N	S
Longitude:	launch	93	D 03 . 924	min	E	W
	on bottom		D 03 . 924	min	E	W

Navigation Type: Loran SatNav GPS PCODE other_____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
Kasten - K
Gravity - GC -4" Big Bertha
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR

Other _____

	launched	on bottom	recovered	
Time:	20:40	22:35	00:45	(GMT)
Water Depth:	4516	4516		Meters
Wire:	-2	4507		Meters

Piston Core Length: 20 40 60 80 100 other 10

Rope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75m

Tension: Surface 5,500 lb

Prior to trip:	14,000 lb.
On Bottom:	7,500 lb
Pullout (max):	18,988
Ascending:	14,200

x	z
1	330
2	1580
3	
4	

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	54	0	54	(No MST)

Remarks: -thinnest most flexible Gravity core catcher installed w/sock, 40m/min until 4,400m, w/o then 50m/min into bottom.

Revised 4/00

OSU Oceanography (~~ESC~~) ✓

MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle — Ship Station # 8

Cruise: KNOX05 — Leg: 1 — Core Name & Station # RR0705-13KC

Mo/Day/Yr 5 / 13 / ~~07~~ — Observer PATTON/Wilson

Latitude:	launch	3	D 28 . 927 min	N	S
	on bottom	3	D 28 . 92 min	N	S
Longitude:	launch	93	D 03 . 923 min	E	W
	on bottom	93	D 03 . 92 min	E	W

Navigation Type: Loran SatNav GPS PCODE other_____

Sampler types
- 2.5" Piston Core - PC
- 4" Piston Core - JC
- Kasten - K (OVER THE STERN W/ RAILROAD TRACKS)
- Gravity - GC
- Box Core - BC
- Multi Corer - MC
- Rock Core - RC
- Shipek Grab - SG
- Dredge - DR

Other _____

	launched	on bottom	recovered	
Time:	04:17	06:13	08:30	(GMT)
Water Depth:	4523	4523		Meters
Wire:	5	4524		Meters

Piston Core Length: 20 40 60 80 100 other 10

Rope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 45 (80m w/o)

Tension: Surface 5500

Prior to trip:	1400
On Bottom:	7560
Pullout (max):	17600
Ascending:	

X	Wire
1	840
2	1586
	2326
	3073
3X	3820m

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
NO RECOVERY:				
KC Door Flap mods: 01" x 1/8" x 7" flat stock welded flat along leading edge; 3/4" from leading edge; parallel to hinge				
PLASTIC FILM TO SEAL LATCHES. PLASTIC FILM AS CORE CATCHER				

Remarks: - Kasten core launched from stern A-frame :41 PM PM
- Revelle modified door cutter installed w/ plastic trash bag sock and ziplock bag water plugs on the inside.

CHECKED Fiji

Revised 4/00

OSU Oceanography (857) ✓

MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle — Ship Station # 9

Cruise: KNOX 05 — Leg: 1 — Core Name & Station # RR0705- 14GC

Mo/Day/Yr 5 / 13 / 07 — Observer PATTON/wilson

Latitude:	launch	3	D 34 . 154	min	N	S
	on bottom	3	D 34 . 1534	min	N	S
Longitude:	launch	93	D 29 . 785	min	E	W
	on bottom	3	D 34 . 7838	min	E	W

Navigation Type: Loran SatNav GPS PCODE other_____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
Kasten - K
Gravity - GC (Benthos)
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR

Other _____

	launched	on bottom	recovered	
Time:	11:01	1146		(GMT)
Water Depth:	4414	4414		Meters
Wire:	0	4480		Meters

Piston Core Length: 20 40 60 80 100 other 10

Rope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75

Tension: Surface _____

Prior to trip: _____

On Bottom: _____

Pullout (max): ~~1614~~ 1667

Ascending: _____

X	payout
1	758
2	1503
3	2242
X 4	3000
X 5	3750

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks

Remarks: ; no cloth sock; plastic sock
; pinger batteries are cheap; this one is low voltage
; Benthos core
; 100m pm

Revised 4/00

~~(858)~~ V

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle — Ship Station # 10

Cruise: Knox 05 — Leg: 1 — Core Name & Station # RR0705-15GC

Mo/Day/Yr 5 / 13 / 07 — Observer C. Moser

Latitude:	launch	3	D 17 . 193	min	(N)	S
	on bottom	3	D 17 . 195	min	N	S
Longitude:	launch	94	D 02 . 117	min	(E)	W
	on bottom	94	D 02 . 111	min	E	W

Navigation Type:
Loran SatNav (GPS) PCODE other_____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
Kasten - K
Gravity - GC Benthos
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR
Other _____

	launched	on bottom	recovered	
Time:	1645	1712		(GMT)
Water Depth:	1911	1912		Meters
Wire:	0	1945		Meters

~~Piston~~ Core Length: 20 40 60 80 100 other 10

Rope: ✓

Trigger Line Length: ✓

Safety Pin Size: ✓ or Actuating Depth: ✓

Pinger (Meters above corehead): 75m

Tension:
Prior to trip: 600
On Bottom: 300
Pullout (max): 845
Ascending:

Other Samplers:
Type & No: Section Length:

Remarks: P

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	32	0	32	(No MST)

Revised 4/00

(8595)

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle

Ship Station # 10

Cruise: KNOX05 Leg: 1

Core Name & Station # RR0705-16GC

Mo/Day/Yr 5 / 13 / 07

Observer

Latitude:	launch	3	D 17 . 193	min	N	S
	on bottom	3	D 17 .	min	N	S
Longitude:	launch	94	D 02 . 115	min	E	W
	on bottom	94	D 02 .	min	E	W

Navigation Type: Loran SatNav GPS PCODE other

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
Kasten - K
Gravity - GC Big Bertha
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR
Other

	launched	on bottom	recovered	
Time:	19:20	20:13		(GMT)
Water Depth:	1911	1911		Meters
Wire:	0	1907		Meters

Piston Core Length: 20 40 60 80 100 other 10

Rope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75

Tension: Surface 5200

Prior to trip:	8800
On Bottom:	2900
Pullout (max):	9800
Ascending:	

X	wire
1	490
2	1242

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	45.5	0	45.5	
2	150.2	45.5	195.7	

Remarks: 4" Big Bertha Gravity Core deployed from Aft A frame
40 m/min descent into bottom. Plastic sock.
4 pigs. 5 m/min recovery.

Revised 4/00

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Roger Revelle — Ship Station # 10

Cruise: KNOX05RR — Leg: 1 — Core Name & Station # RR0705 - 17KC

Mo/Day/Yr 05 / 13 / 07 — Observer Romsos

Latitude:	launch	03	D 17 . 192	min	N	S
	on bottom	03	D 17 . 1930	min	N	S
Longitude:	launch	94	D 02 . 114	min	E	W
	on bottom	94	D 02 . 1162	min	E	W

Navigation Type: Loran SatNav (GPS) (PCODE) other_____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
(Kasten - K)
Gravity - GC
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR
Other _____

	launched	on bottom	recovered	
Time:	2350	00:38		(GMT)
Water Depth:	1912	1911		Meters
Wire:	0	1907		Meters

Piston Core Length: 20 40 60 80 100 other 10

Rope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75

Tension: @ Surface = 5500 lbs.

		X	WIRE
Prior to trip:	8,900		
On Bottom:	2,800	1	500
Pullout (max):	12,331	2	1245
Ascending:	9,500		

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
* NO RECOVERY.				
NO evidence of any sediment inside the Kasten liner.				
* 2-3 bag	cc of shell	sample is fragments		in plastic and a single 2x2 x 0.2 cm shell

Remarks:
- Using a black trash bag as a core catcher
- Using a flapper valve
- Initial pinger bottom trace shows two layers, separated by 22 meters
- 4 pigs. 50m/min into bottom.
- Tape + Doorseal applied to Coreliner to retain evidence of sediment

Revised 4/00

OSU Oceanography (old) ✓

MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle

Ship Station # 11

Cruise: KNOX05 Leg: 1

Core Name & Station # RR0705-18GC

Mo/Day/Yr 5 / 14 / 07

Observer PATTON

Latitude:	launch	3	D 16	.567 min	N	S
	on bottom	3	D 16	.566 min	N	S
Longitude:	launch	94	D 01	.190 min	E	W
	on bottom	94	D 01	.192 min	E	W

Navigation Type: Loran SatNav GPS PCODE other_____

Sampler types
- 2.5" Piston Core - PC
- 4" Piston Core - JC
- Kasten - K
- Gravity - GC 4"
- Box Core - BC
- Multi Corer - MC
- Rock Core - RC
- Shipek Grab - SG
- Dredge - DR

Other _____

	launched	on bottom	recovered	
Time:	03:31	04:20	05:30	(GMT)
Water Depth:	1820	1820		Meters
Wire:	0	1817		Meters

Piston Core Length: 20 40 60 80 100 other 10

Rope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75

Tension: 4400

Prior to trip:	8300
On Bottom:	2800
Pullout (max):	12833
Ascending:	9200

X	wire
1	405
2	1155
3	1910
4	2660?
5	3370
6	4120

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	85.4	0	85.4	
2	80.4	85.4	165.8	
3	150.6	165.8	316.4	

Remarks: - Big Bertha gravity core deployed from Aft A-frame.
- plastic sock installed
- 4 pigs. TC core catcher.
50m/min into bottom.

Revised 4/00

OSU Oceanography (~~862~~) ✓
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle — Ship Station # 12

Cruise: KNOX05 — Leg: 1 — Core Name & Station # RR0705-19GC

Mo/Day/Yr 5 / 14 / 07 — Observer PATTON

Latitude:	launch	02	D 14	.853 min	N	S
	on bottom	02	D 14	.85 min	N	S
Longitude:	launch	94	D 30	.868 min	E	W
	on bottom	94	D 30	.86 min	E	W

Navigation Type: Loran SatNav GPS PCODE other_____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
Kasten - K
Gravity - GC Benthos
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR
Other _____

	launched	on bottom	recovered	
Time:	14:14	15:14		(GMT)
Water Depth:	4816			Meters
Wire:	0			Meters

Piston Core Length: 20 40 60 80 100 other 10

Scope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75

Tension: Surface 160

Prior to trip:	1300
On Bottom:	800
Pullout (max):	2029
Ascending:	

X	Layout
1	375
2	1135
3	1887
4	2645
5	3400
6	4165

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	67.7	0	67.7	MST done

Remarks: 2.5" Benthos Gravity core deployed from starboard Hydro winch
PLASTIC SOCK.
pinger ser# 1074

Revised 4/00

(~~863~~) –

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle — Ship Station # 12

Cruise: KNOX05 — Leg: 1 — Core Name & Station # RR0705-20GC

Mo/Day/Yr 5 / 14 / 07 — Observer Ramsos / Mosher

Latitude:	launch	02	D 14 . 8530	min	N	S
	on bottom	02	D 14 . 8528	min	N	S
Longitude:	launch	94	D 30 . 8683	min	E	W
	on bottom	94	D 30 . 8691	min	E	W

Navigation Type: Loran SatNav (GPS) PCODE other_____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
Kasten - K
(Gravity - GC) 4" Big Beth
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR
Other _____

	launched	on bottom	recovered	
Time:	17:10	19:12		(GMT)
Water Depth:	4815	4816		Meters
Wire:	Ø	4807		Meters

~~Piston~~ Gravity Core Length: 20 40 60 80 100 (other 10)

Scope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75m

Tension: @ surface = 5,250m

Prior to trip:	13,700
On Bottom:	8,000
Pullout (max):	20,080
Ascending:	14,500

x	z
1	375
2	1125
3	1875
4	
5	3370
6	4120

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	71	0	71	
2	151	71	222	

Remarks: – plastic bag core catcher, using TC core catcher
– 4 pigs
– 50 m/min into bottom
– winch tripped off – no winch control ~~after~~/while on bottom

Revised 4/00

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle — Ship Station # 13

Cruise: KNOX05RR — Leg: 1 — Core Name & Station # RR0705-21GC

Mo/Day/Yr 5 / 14 / 07 — Observer

Latitude:	launch	02	D 16 . 4063	min	N	S
	on bottom	2	D 16 .	min	N	S
Longitude:	launch	094	D 32 . 3185	min	E	W
	on bottom	94	D 32 .	min	E	W

Navigation Type: Loran SatNav (GPS) (PCODE) other

Sampler types
- 2.5" Piston Core - PC
- 4" Piston Core - JC
- Kasten - K
- (Gravity - GC BENTHOS)
- Box Core - BC
- Multi Corer - MC
- Rock Core - RC
- Shipek Grab - SG
- Dredge - DR

Other

	launched	on bottom	recovered	
Time:	2220	23:15	00:20	(GMT)
Water Depth:	4834	4834		Meters
Wire:	0	4890		Meters

Piston Core Length: 20 40 60 80 100 (other 10)

Scope:

Trigger Line Length:

Safety Pin Size: or Actuating Depth:

Pinger (Meters above corehead): 75

Tension: Surface: 300

Prior to trip:	1,500
On Bottom:	1,300
Pullout (max):	1862
Ascending:	1,600

X	wire
1	430
2	1180
3	1930
4	2680
5	3430
6	4190

Other Samplers:

Type & No: Section Length:

Remarks:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	40	0	40	

Revised 4/00

OSU Oceanography

MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle — Ship Station # 14

Cruise: KNOX 05 — Leg: 1 — Core Name & Station # RR0705 - 226C

Mo/Day/Yr 5 / 15 / 07 — Observer PATTON

Latitude:	launch	1	D 38	.126 min	(N)	S
	on bottom	1	D 38	.1364 min	(N)	S
Longitude:	launch	95	D 34	.084 min	(E)	W
	on bottom	95	D 34	.085 min	(E)	W

Navigation Type: Loran SatNav (GPS) PCODE other_____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
Kasten - K
(Gravity - GC Benthos)
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR
Other _____

	launched	on bottom	recovered	
Time:	09:26	1019Z		(GMT)
Water Depth:	4983	4985m		Meters
Wire:	0	5051m		Meters

Piston Core Length: 20 40 60 80 100 other (10)

Rope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75m

Tension:

Prior to trip:	1321 lbs
On Bottom:	1250
Pullout (max):	1922
Ascending:	

X	Payout
1	535
2	1308
3	2058
4	MISSED
5	3559
6	4323

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	94.6	0	94.6	

Remarks: - plastic sock
- 100 mpm
Stop @ 4700 mwd about 3 min.

Revised 4/00

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle

Ship Station # 14

Cruise: KNOX 05 Leg: 1

Core Name & Station # RR0705 - 23 GC

Mo/Day/Yr 5 / 15 / 07

Observer PATTON

Latitude:	launch	01	D 38 . 136 min	N	S
	on bottom	01	D 38 . 136 min	N	S
Longitude:	launch	95	D 34 . 086 min	E	W
	on bottom	95	D 34 . 086 min	E	W

Navigation Type: Loran SatNav GPS PCODE other_____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
Kasten - K
Gravity - GC Big Bertha
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR

Other _____

	launched	on bottom	recovered	
Time:	11:50	14:01		(GMT)
Water Depth:	4973	4973		Meters
Wire:		4968		Meters

Piston Core Length: 20 40 60 80 100 other 10

Rope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75 m

Tension: surface 5000

Prior to trip:	14000
On Bottom:	6800
Pullout (max):	18500
Ascending:	

x	payout
1	516 mwd
2	1272 mwd
3	2011 mwd
4	2762 mwd
5	3515
6	4268 mwd

Other Samplers:

Type & No:	Section	Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	109	0	109	
2	101	109	210	

Remarks: - Big Bertha gravity core deployed from stern A-frame
- plastic sock, beautiful sunset w/ rainbow in sky
FIJI FITTING CHECKED. Valve Checked.

Revised 4/00

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle

Ship Station # 15

Cruise: KNOX05RR Leg: 1

Core Name & Station # RR0705-24GC

Mo/Day/Yr 5 / 15 / 07

Observer ROMSOS

Latitude:	launch	1	D 38 . 1849 min	N	S
	on bottom	1	D 38 . 1854 min	N	S
Longitude:	launch	95	D 34 . 0947 min	E	W
	on bottom	95	D 34 . 0948 min	E	W

Navigation Type: Loran SatNav (GPS) (PCODE) other_____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
Kasten - K
(Gravity - GC) BENTHOS
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR
Other _____

	launched	on bottom	recovered	
Time:	17:10	18:14	19:20	(GMT)
Water Depth:	4976	4975	4975	Meters
Wire:	ϕ	5025	ϕ	Meters

Piston Core Length: 20 40 60 80 100 (other 10)

Rope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75m

Tension: @ Pinger Depth ≈ 300 lbs

- Prior to trip: 1375
- On Bottom: 1350
- Pullout (max): ~~1986~~
- Ascending: 1650

x	z
1	545
2	1300
3	2050
4	2800
5	3570
6	4352

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	99.5	0	99.5	

Remarks:
- Stop 200m above the bottom,
- 100 m/min descent rate on hydro wire and 100 m/min into bottom
- Good recovery, sample seems undisturbed (clear H_2O above)

Revised 4/00

OSU Oceanography ✓

MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Roger Revelle

Ship Station # 16

Cruise: _____ Leg: _____

Core Name & Station # RR0705-25GC

Mo/Day/Yr 5 / 16 / 07

Observer Jim Dorrance

Latitude:	launch	01	D 04	.0341 min	(N)	S
	on bottom	01	D 04	.033 min	(N)	S
Longitude:	launch	096	D 28	.0295 min	(E)	W
	on bottom	96	D 28	.029 min	(E)	W

Navigation Type:
Loran SatNav (GPS) PCODE other_____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
Kasten - K
(Gravity - GC Benthos)
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR
Other _____

	launched	on bottom	recovered	
Time:	0227	0324		(GMT)
Water Depth:	5224.1			Meters
Wire:	0	5295		Meters

Piston Core Length: 20 40 60 80 100 other 10

Rope: ✓

Trigger Line Length: _____

Safety Pin Size: _____ or Actuating Depth: _____

Pinger (Meters above corehead): 75

Tension:

	Surface:	X	wire
	300		
Prior to trip:	1560	1	790
On Bottom:	1380	2	1540
Pullout (max):	1670	3	2290
Ascending:	1750	4	3045
		5	3800
		6	4550

Other Samplers:

Type & No: Section Length:

_____

_____

_____

_____

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
NO RECOVERY; core was deployed in a region where the 3.5 kz LF showed a "sandy" region on the surface. This may be why no sediment was recovered. JRP				

Remarks: Plastic sock. Into bottom @ 100 m/min

Revised 4/00

FOULED ON RECOVERY. LANDED CORE HORIZONTALLY. CLEARED FOULED HYDRO WIRE, LIFTED VERTICALLY TO REMOVE LINER. RCW

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle — Ship Station # 17

Cruise: KNOX 05 — Leg: 1 — Core Name & Station # RR0705 - 26 GC

Mo/Day/Yr 5 / 16 / 07 — Observer PATTON

Latitude:	launch	00	D 59 . 727	min	N	S
	on bottom	00	D 59 . 73	min	N	S
Longitude:	launch	96	D 22 . 323	min	E	W
	on bottom	96	D 22 . 32	min	E	W

Navigation Type: Loran SatNav GPS PCODE other_____

Sampler types (RCW)
- 2.5" Piston Core - PC
- 4" Piston Core - JC
- Kasten - K
- Gravity - GC (Benthos)
- ~~Box Core - BC~~
- Multi Corer - MC
- Rock Core - RC
- Shipek Grab - SG
- Dredge - DR

Other _____

	launched	on bottom	recovered	
Time:	JRP 5220 0610	0706		(GMT)
Water Depth:	~~5510~~	~~5520~~ JRP 5220		Meters
Wire:	0	5214		Meters

Piston Core Length: 20 40 60 80 100 other 10

Rope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75

Tension: Surface 0

	Y	payout
Prior to trip: 1400	1	780
On Bottom: 1250	2	1550
Pullout (max): 2020	3	2278
Ascending:	4	3035
	5	3806
	6	4570
	7	

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
I	2645	0	2645	

Remarks: plastic sock
- 200 m off bottom stop
- 100 mpm

Slop 5000m Check Winch

At 5200 there are at least 1 7/8 wraps of wire on hydro drum

Revised 4/00

RETERMINATED. CUT OFF 10M OF 1/4" 1x19 SS WIRE,

OSU Oceanography w/ winch Ø = −3
MARINE GEOLOGY CORING DATA SHEET DINGER = 72 mwd

Vessel: R/V Revelle — Ship Station # 17

Cruise: KNOX05 — Leg: 1 — Core Name & Station # RR0705 - 27GC

Mo/Day/Yr 5 / 16 / 07 — Observer PATTON

Latitude:	launch	00	D 59 . 721	min	N	S
	on bottom	00	D 59 . 73	min	N	S
Longitude:	launch	96	D 22 . 318	min	E	W
	on bottom	96	D 22 . 32	min	E	W

Navigation Type: Loran SatNav GPS PCODE other_____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
Kasten - K
Gravity - GC Bertha
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR
Other _____

	launched	on bottom	recovered	
Time:	0981	11:16		(GMT)
Water Depth:	5214	5214		Meters
Wire:	−3 0	5204		Meters

Piston Core Length: 20 40 60 80 100 other 10

Scope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): ~~75~~ 72

Tension: Surface 4900

5000m Prior to trip: ≈ 13000lbs

On Bottom: 6800

Pullout (max): 19200

Ascending: _____

X	Payout
	755
1	
2	1502
3	2250
4	3000
5	3750
6	4507

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	82	0	82	
2	150.5	82	232.5	

Remarks: Big Bertha 4" Gravity Core deployed w/plastic sock from Stern A frame
- seas are flat
TOTAL DEPTH 5294m BY GRAVITY CORE.

Revised 4/00

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle — Ship Station # 18

Cruise: KNOX05 — Leg: 1 — Core Name & Station # RR0705-28GC

Mo/Day/Yr 5 / 16 / 07 — Observer PATTON ~~PATTON~~ Ramos

Latitude: launch 00 D 04 . 8026 min N S

on bottom ____ D ____ . 804 min N S

Longitude: launch 97 D 02 . 6987 min E W

on bottom ____ D ____ . 700 min E W

Navigation Type: Loran SatNav GPS PCODE other____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
Kasten - K
Gravity - GC Bertha
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR
Other ____

	launched	on bottom	recovered	
Time:	21:25	23:35		(GMT)
Water Depth:	5240	5238		Meters
Wire:		5228		Meters

Piston Core Length: 20 40 60 80 100 other 10

Scope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75

Tension: @ Proje Depth = 5,200 lb.

Prior to trip:	14,100
On Bottom:	8,700
Pullout (max):	16,800
Ascending:	14,700

X	WIRE
1	783m
2	1532
3	2281
4	3025
5	3775
6	4540
7	

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
				recovered
				1 BAG SAND
				FROM CATCHER

Remarks: Big Bertha deployed with plastic sock from stern A-frame. Into bottom @ 40m/min!
-winch lost power while core was on bottom, started hauling in @ 23:40.

Revised 4/00

OSU Oceanography ✓

MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle

Ship Station # 19

Cruise: KNOX05RR Leg: _____

Core Name & Station # RR0705-29GC

Mo/Day/Yr 5 / 17 / 2007

Observer Romsos

Latitude:	launch	00	D 00 .4543	min	N	S
	on bottom	00	D 00 .4546	min	N	S
Longitude:	launch	097	D 00 .4651	min	E	W
	on bottom	97	D 00 .4655	min	E	W

Navigation Type: Loran SatNav (GPS) (PCODE) other_____

Sampler types
- 2.5" Piston Core - PC
- 4" Piston Core - JC
- Kasten - K
- (Gravity - GC) BENTHOS
- Box Core - BC
- Multi Corer - MC
- Rock Core - RC
- Shipek Grab - SG
- Dredge - DR

Other _____

	launched	on bottom	recovered	
Time:	02:49	03:49		(GMT)
Water Depth:	5302	5303		Meters
Wire:	0	~~5370~~ 5364		Meters

Piston Core Length: 20 40 60 80 100 (other 10)

Scope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75m

Tension: @surface = 2501bs

Prior to trip:	1,450
On Bottom:	1,400
Pullout (max):	2,007
Ascending:	1,800

X	WIRE
1	
2	
3	
4	
5	
6	

Other Samplers:

Type & No: Section Length:

_____

_____

_____

_____

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
I	139	0	139	

Remarks:

Revised 4/00

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle — Ship Station # 19

Cruise: KNOX 05 — Leg: 1 — Core Name & Station # RR0705 - 30GC

Mo/Day/Yr 05 / 17 / 07 — Observer PATTON

Latitude:	launch	0	D 0 . 455	min	N	S
	on bottom	0	D 0 . 46	min	N	S
Longitude:	launch	97	D 0 . 465	min	E	W
	on bottom	97	D 0 . 47	min	E	W

Navigation Type: Loran SatNav GPS PCODE other_____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
Kasten - K
Gravity - GC — Bertha
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR
Other _____

	launched	on bottom	recovered	
Time:	05:25	07:39		(GMT)
Water Depth:	5303	5303		Meters
Wire:	0	5296.4		Meters

Piston Core Length: 20 40 60 80 100 other 10

Scope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75

Tension:

Prior to trip:	14000
On Bottom:	8000
Pullout (max):	18500
Ascending:	

X	payout
1	841
2	1585
3	2335
4	3085
5	3835
6	4590

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	61.7	0	61.7	ok
2	108.14	61.7	169.84	ok

Remarks: - Big Bertha Gravity Core deployed with plastic sock from Stern A-frame
- 40 mpm

Revised 4/00

OSU Oceanography

MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle

Ship Station # 20

Cruise: KN0705 Leg: 1

Core Name & Station # RR0705-31 GC

Mo/Day/Yr 5 / 17 / 07

Observer PATTON/ROMSOS

Latitude: launch 00 D 51 . 568 min N S

on bottom 00 D 51 . 568 min N S

Longitude: launch 097 D 25 . 779 min E W

on bottom 097 D 25 . 778 min E W

Navigation Type:

Loran SatNav GPS PCODE other_____

Sampler types

2.5" Piston Core - PC

4" Piston Core - JC

Kasten - K

Gravity - GC Benthos

Box Core - BC

Multi Corer - MC

Rock Core - RC

Shipek Grab - SG

Dredge - DR

Other _____

	launched	on bottom	recovered	
Time:	1645	1731		(GMT)
Water Depth:	5420			Meters
Wire:	0	5480		Meters

Piston Core Length: 20 40 60 80 100 other 10

Scope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75

Tension: Surface

Prior to trip: 1450

On Bottom:

Pullout (max): 2055

Ascending:

X	
1	980
2	1730
3	2490
4	3250
5	4020
6	4780

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
I	136.7	0	136.7	

Remarks: Benthos 2.5" Gravity core deployed with plastic sock from Hydro winch 100 mpm to seafloor. Stopped at ~200 mab to settle out and check wire on drum.

Revised 4/00

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Roselle — Ship Station # 21

Cruise: KNOK05RR — Leg: 1 — Core Name & Station # RR0705-32GC

Mo/Day/Yr 5 / 17 / 2007 — Observer Romsos

Latitude:	launch	00	D 51 . 5682 min	N (S)	
	on bottom	00	D 51 . 5688 min	N (S)	
Longitude:	launch	097	D 26 . 5004 min	(E) W	
	on bottom	097	D 26 . 5004 min	(E) W	

Navigation Type: Loran SatNav (GPS) (PCODE) other_____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
Kasten - K
(Gravity - GC) BB Bertha 4"
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR
Other _____

	launched	on bottom	recovered	
Time:	19:31	22:00		(GMT)
Water Depth:	5436	5435		Meters
Wire:		5425		Meters

Piston Core Length: 20 40 60 80 100 (other 10)

Scope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75

Tension: @ surface = 5,200

Prior to trip: 15,000
On Bottom: 9,000
Pullout (max): 19,768
Ascending: 15,300

X	Wire
1	225
2	970
3	1720
4	2470
5	3215
6	3975
7	4735

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
I	74	0	74	
II	107	74	181	

Into bottom @ 40 m/min.

Remarks: Spring-less purge valve on bigbertha Core deployed with plastic sock from stern A-frame

Revised 4/00

Winched stopped @ 2140z maintenance. started @ 2150z. Core weight overpenetrated with much intype of bomb. Recovered only 180cms sediment.

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle

Ship Station # 22

Cruise: KNOX05 Leg: 1

Core Name & Station # RR0705 - 33GC

Mo/Day/Yr 5 / 18 / 07

Observer PATTON

Latitude: launch 01 D 17 . 5775 min N S

on bottom 01 D 17 . 57 min N S

Longitude: launch 097 D 40 . 6810 min E W

on bottom 097 D 40 . 68 min E W

Navigation Type:
Loran SatNav GPS PCODE other_____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
Kasten - K
Gravity - GC Benthos
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR

Other _____

	launched	on bottom	recovered	
Time:	04:45	05:50		(GMT)
Water Depth:	5,489	5489		Meters
Wire:		5583		Meters

Piston Core Length: 20 40 60 80 100 other 10

Scope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75

Tension: @surface = 2001b

Prior to trip:	1500
On Bottom:	1456
Pullout (max):	2118
Ascending:	

X	wire
1	290
2	1031
3	1793
4	2551
5	3308
6	4071
7	4840
8	

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
NO				
RECOVERY				

Remarks: BENTHOS W/ PLASTIC SOCK.

Revised 4/00

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle — Ship Station # 23

Cruise: KNOX05 — Leg: 1 — Core Name & Station # RR0705-34GC

Mo/Day/Yr 5 / 18 / 07 — Observer PATTON

Latitude: launch 01 D 17.273 min N S
on bottom 01 D 17.27 min N S

Longitude: launch 97 D 39.807 min E W
on bottom 97 D 39.81 min E W

Navigation Type:
Loran SatNav GPS PCODE other_____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
Kasten - K
Gravity - GC Benthos
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR

Other _____

	launched	on bottom	recovered	
Time:	08:13	09:08		(GMT)
Water Depth:	5462	5463		Meters
Wire:	0	5560.9		Meters

Piston Core Length: 20 40 60 80 100 other 10

Scope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75

Tension: surface 300

Prior to trip: 1400

On Bottom: 1350

Pullout (max): 2126

Ascending: _____

X	
1	272 ~~272~~
2	1039
3	1780
4	2530
5	MISSED
6	4056
7	4822

Other Samplers:

Type & No: Section Length:

_____

_____

_____

_____

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	85.4	0	85.4	

Remarks: Benthos GC deployed with plastic sock on hydro winch

Revised 4/00

OSU Oceanography ✓

MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle

Ship Station # 24

Cruise: Knox05 Leg: 1

Core Name & Station # RR0705-35GC

Mo/Day/Yr 5 / 19 / 07

Observer JPATTON

Latitude: launch 1 D 17 .286 min N S

on bottom 1 D 17 .27 min N S

Longitude: launch 97 D 39 .011 min E W

on bottom 97 D 39 .00 min E W

Navigation Type:

Loran SatNav GPS PCODE other_____

Sampler types

2.5" Piston Core - PC

4" Piston Core - JC

Kasten - K

Gravity - GC (Big Bertha)

Box Core - BC

Multi Corer - MC

Rock Core - RC

Shipek Grab - SG

Dredge - DR

Other _____

	launched	on bottom	recovered	
Time:	11:27	13:43		(GMT)
Water Depth:	5462	5455		Meters
Wire:	0	5448.7		Meters

Piston Core Length: 20 40 60 80 100 other 10

Scope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75

Tension: Surface 5000

Prior to trip: 10500

On Bottom: 10000

Pullout (max): 18620

Ascending: _____

X	payout
1	
2	990
3	1740
4	2490
5	3258
6	3980
7	4747
8	

Other Samplers:

Type & No: Section Length:

_____

_____

_____

_____

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	98.4	0	98.4	
2	100.4	98.4	198.8	
TOP	2cm	bagged		

Remarks: - Big Bertha GC deployed from stern A-frame with plastic sock
- 40 MPM

Revised 4/00

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle — Ship Station # 24

Cruise: KNOX05 — Leg: 1 — Core Name & Station # RR0705-36KC

Mo/Day/Yr 5 / 18 / 07 — Observer

Latitude: launch 01 D 17 . 273 min N (S)
on bottom 01 D 17 . 273 min N (S)

Longitude: launch 097 D 38 . 999 min (E) W
on bottom 097 D 39 . 000 min (E) W

Navigation Type:
Loran SatNav GPS (PCODE) other_____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
(Kasten - K)
Gravity - GC
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR
Other _____

	launched	on bottom	recovered	
Time:	1715	19:35	2230	(GMT)
Water Depth:	5455	5455		Meters
Wire:	0	5440	0	Meters

Piston Core Length: 20 40 60 80 100 other 10

Scope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75

Tension: Surface: 5200

X	wire
1	250
2	995
3	1740
4	2485
5	3235
6	3985
7	4745

Prior to trip: 15,000 lb
On Bottom: 9,000 lb
Pullout (max): 20,221 lb.
Ascending: 16,000 lb

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
I	163	0	163	163
core cutter subsample → 3 tubes bagged				
II-1	22	163	185	remaining
II-2	22	163	185	
II-3	22	163	185	

Remarks: Four pigs. deployed from stern A Frame
"5200" caulking installed on upper edge of flat stock that doors rest upon so to form a gasket between the flat stock and the doors in an attempt to prevent sediment from escaping. The doors are the Revelle modified doors previously described. A black plastic trash bag is installed. The Chris ROMSOS flap is installed on top of bomb. → 5mpm pullout

Revised 4/00

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle — Ship Station # 25

Cruise: KNOX05 — Leg: 1 — Core Name & Station # RR0705-37-GC

Mo/Day/Yr 5 / 19 / 07 — Observer PATTON

Latitude:	launch	1	D 42 . 450	min	N	S
	on bottom	1	D 42 . 45	min	N	S
Longitude:	launch	97	D 55 . 381	min	E	W
	on bottom	97	D 55 . 27	min	E	W

Navigation Type: Loran SatNav GPS PCODE other_____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
Kasten - K
Gravity - GC Benthos
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR
Other _____

	launched	on bottom	recovered	
Time:	04:26	05:24		(GMT)
Water Depth:	5492	5492		Meters
Wire:	0	5578.6		Meters

Piston Core Length: 20 40 60 80 100 other 16

Scope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75

Tension: Sfce 300

Prior to trip:	1400
On Bottom:	1250
Pullout (max):	2058
Ascending:	

x	payout
1	290
2	1045
3	1800
4	2554
5	3312
6	4077
7	4850

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	88.6	0	88.6	

Remarks: Benthos Gravity Core w/plastic sock.

1m MUD
RECOVERED 1/4 WIRE FOULED ON FINS.

Revised 4/00

OSU Oceanography ✓

MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle

Ship Station # 26

Cruise: KNOX 05 Leg: 1

Core Name & Station # RR0705-38BB GC JRP

Mo/Day/Yr 5 / 19 / 07

Observer Wulczak

Latitude: launch 01° D 41 .934 min N (S)

on bottom 010 D 41 .9342 min N (S)

Longitude: launch 097° D 56 .2650 min (E) W

on bottom 097° D 56 .2658 min (E) W

Navigation Type:

Loran SatNav GPS PCODE other_____

Sampler types

2.5" Piston Core - PC

4" Piston Core - JC

Kasten - K

Gravity - GC 10' BERTHA

Box Core - BC

Multi Corer - MC

Rock Core - RC

Shipek Grab - SG

Dredge - DR

Other _____

	launched	on bottom	recovered	
Time:	0730Z	0954Z		(GMT)
Water Depth:	5511m	5511m		Meters
Wire:	0	5502		Meters

Piston Core Length: 20 40 60 80 100 other____

Scope: NIL

Trigger Line Length: NIL

Safety Pin Size: NIL or Actuating Depth: NIL

Pinger (Meters above corehead): 75MOW

Tension:

Prior to trip: _____

On Bottom: 9400

Pullout (max): 18800

Ascending: _____

x	Payout
1	1050
2	1797
3	2547
4	3295
5	4050
6	4810
7	

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	86.6	0	86.6	
2	100	86.6	186.6	

Remarks: FUJI FITTING CHECKED

R/V REVELLE'S SCIENCE BOAT DEPLOYED AND TESTRUN DURING THIS CORE.

Revised 4/00

OSU Oceanography

MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle — Ship Station # 26

Cruise: Knox05 — Leg: 1 — Core Name & Station # RR0705-39KC

Mo/Day/Yr 5 / 19 / 07 — Observer

Latitude:	launch	1	D 41 .934	min	N	S
	on bottom	1	D 41 .9337	min	N	S
Longitude:	launch	97	D 56 .265	min	E	W
	on bottom	97	D 56 .2651	min	E	W

Navigation Type: Loran SatNav GPS PCODE other_____

	launched	on bottom	recovered	
Time:	1350	1608Z		(GMT)
Water Depth:	5510	5510 m		Meters
Wire:	0	5502 m		Meters

Piston Core Length: 20 40 60 80 100 other 10

Scope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75 mwd

Tension:

Prior to trip: 15000 lbs

On Bottom: 8300 lbs

Pullout (max): 21590 lbs

Ascending: _____

Other Samplers:

Type & No: Section Length:

_____

_____

_____

_____

Sampler types
- 2.5" Piston Core - PC
- 4" Piston Core - JC
- Kasten - K 10'
- Gravity - GC
- Box Core - BC
- Multi Corer - MC
- Rock Core - RC
- Shipek Grab - SG
- Dredge - DR

Other _____

KASTEN

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
I	209	0	209	
sec. III	22	209	231	
sec. III	23	209	232	
sec. III	23.5	209	2325	

Core Cutter Samples

Remarks: NOSE CORE RE-WORKED W/OUT PLASTIC SOCK W/ EXTRA WHITE PVC LINER INTO WEIGHT STAND.

Revised 4/00

OSU Oceanography ✓

MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle — Ship Station # 27

Cruise: KNOK05RR — Leg: 1 — Core Name & Station # RR0705 - 40GC

Mo/Day/Yr 5 / 19 / 07 — Observer Ramos

Latitude: launch 02 D 08 . 071 min N (S)

on bottom 02 D 08 .0707 min N (S)

Longitude: launch 098 D 13 . 265 min (E) W

on bottom 098 D 13 . 2648 min (E) W

Navigation Type: Loran SatNav GPS PCODE other_____

Sampler types
- 2.5" Piston Core - PC
- 4" Piston Core - JC
- Kasten - K
- Gravity - GC Benthos
- Box Core - BC
- Multi Corer - MC
- Rock Core - RC
- Shipek Grab - SG
- Dredge - DR

Other _____

	launched	on bottom	recovered	
Time:	2340	0039		(GMT)
Water Depth:	5527	5529		Meters
Wire:				Meters

Piston Core Length: 20 40 60 80 100 other 10

Scope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75m

Tension: @ surface 25016

Prior to trip:	14,500
On Bottom:	14,250
Pullout (max):	2099
Ascending:	1800

X	wire
1	330
2	1080
3	1830
4	2585
5	3340
6	4110
7	4880

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
I	122.5	0	122.5	

Remarks: Into bottom @ 100 m/min. after 200 mab stop to settle.

Revised 4/00

OSU Oceanography ✓

MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle — Ship Station # 28

Cruise: KNOX05RR — Leg: _____ — Core Name & Station # RR0705 - 41GC

Mo/Day/Yr 5 / 20 / 2007 — Observer _____

Latitude:	launch	02	D 07 . 7195	min	N	(S)
	on bottom	02	D 07 . 72	min	N	S
Longitude:	launch	098	D 14 . 6193	min	(E)	W
	on bottom	98	D 14 . 62	min	E	W

Navigation Type: Loran SatNav (GPS) PCODE other_____

Sampler types
- 2.5" Piston Core - PC
- 4" Piston Core - JC
- Kasten - K
- (Gravity - GC 4" - Big Berthe)
- Box Core - BC
- Multi Corer - MC
- Rock Core - RC
- Shipek Grab - SG
- Dredge - DR

Other _____

	launched	on bottom	recovered	
Time:	02:45	05:09		(GMT)
Water Depth:	5540	5540		Meters
Wire:		5533		Meters

Piston Core Length: 20 40 60 80 100 (other 10)

Scope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75

Tension: @ surface 50016,

	Prior to trip:	On Bottom:	Pullout (max):	Ascending:
1	12000	9000	19100	
2	1080			
3	1830			
4	2580			
5	3330			
6	4080			
7	4830			
8				

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	101	0	101	
2	61	101	162	

Remarks: - 40 mpm descent. Four pigs. Plastic sock. TC core catcher. Spring purge valves.

Revised 4/00

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 29
Cruise: Knox 05RR Leg: _____
Core Name & Station # RR0705-42GC
Mo/Day/Yr 5 / 22 / 2007
Observer J. Domanico

Latitude:	launch	02	D 00 . 9391	min	N	S
	on bottom	02	D 00 . 938	min	N	S
Longitude:	launch	098	D 46 . 3907	min	E	W
	on bottom	98	D 46 . 390	min	E	W

Navigation Type: Loran SatNav GPS PCODE other _____

	launched	on bottom	recovered	
Time:	0226	0238		(GMT)
Water Depth:	1152			Meters
Wire:	75m	1170		Meters

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

Piston Core Length: 20 40 60 80 100 other 10

Scope: _____
Trigger Line Length: _____
Safety Pin Size: _____ or Actuating Depth: _____
Pinger (Meters above corehead): 75

Tension:
At surface: 325
Prior to trip: 520
On Bottom: 140
Pullout (max): 680
Ascending: _____

Other Samplers:
Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
I	~~101~~	0	~~101~~	
	16		16	

Remarks:
- Plastic Sleeve on catcher
- Deployed to 50 m, then retrieved before this station deployment

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle

Ship Station # 30

Cruise: KNOX05RR Leg: 1

Core Name & Station # RR0705 - 43GC

Mo/Day/Yr 5 / 22 / 07

Observer PATTON

Latitude: launch 02 D 13 .927 min N (S)
on bottom 02 D 13 .93 min N (S)

Longitude: launch 98 D 21 .379 min (E) W
on bottom 98 D 21 .38 min (E) W

Navigation Type:
Loran SatNav (GPS) PCODE other _____

	launched	on bottom	recovered	
Time:	09:05	10:03		(GMT)
Water Depth:	~~5555~~	5555		Meters
Wire:	0	5650		Meters

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

Piston Core Length: 20 40 60 80 100 other 10

Scope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): @ 75

Tension:

At surface:	250
Prior to trip:	1470
On Bottom:	1200
Pullout (max):	2020
Ascending:	

X	Payout
1	PIN ISSET
2	1127
3	1875
4	2625
5	3380
6	4145
7	4910

Other Samplers:

Type & No:	Section	Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
I	83.7	0	83.7	

Remarks:
Benthos GC deployed with plastic sock.
RE-RIG 1/2" & SAFETY SHACKLES & 1/2" EYE SWIVEL THIS IN AN EFFORT TO PREVENT HYDRO WIRE FOULING BENTHOS FINS.

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle

Ship Station # 30

Cruise: RRkwon05 Leg: _____

Core Name & Station # RR0705-44MC

Mo/Day/Yr 05 / 22 / 07 (JD 142)

Observer GOLDFINGER

Latitude: launch 02 D 13 . 926 min N (S)

on bottom 02 D 13 . 930 min N (S)

Longitude: launch 98 D 21 . 379 min (E) W

on bottom 98 D 21 . 380 min (E) W

Navigation Type:
Loran SatNav (GPS) (PCODE) other _____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
(Multi Corer - MC)
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

	launched	on bottom	recovered	
Time:	11 55 00	14:15		(GMT)
Water Depth:	5561	5557		Meters
Wire:	0	5557		Meters

Piston Core Length: 20 40 60 80 100 other _____

Scope: —

Trigger Line Length: —

Safety Pin Size: — or Actuating Depth: —

Pinger (Meters above corehead): 75

Tension:

At surface:	950
Prior to trip:	9000 lbs
On Bottom:	8400
Pullout (max):	10200
Ascending:	

x	Payout
1	~270
2	1090
3	1831
4	2585
5	3340
6	4090
(7.4)	4851

Other Samplers:

Type & No: Section Length:

_____

_____

_____

_____

Remarks:

On bottom for ~3 min
Up slow ~3m/min out of bottom

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
				No Recovery, very little
1 cm				

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 30
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705 - 45PC
Mo/Day/Yr 05 / 22 / 2007
Observer ROMSOS / Dorrance

Latitude: launch 02 D 13 . 9261 min N (S)
on bottom 02 D 13 . 9271 min N (S)
Longitude: launch 098 D 21 . 3793 min (E) W
on bottom 098 D 21 . 3780 min (E) W

Navigation Type:
Loran SatNav (GPS) PCODE other

	launched	on bottom	recovered	
Time:	2021	2243		(GMT)
Water Depth:	5561	5561		Meters
Wire:	0	5530		Meters

Sampler types
2.5" Piston Core - PC
(4" Piston Core - JC)
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other

Piston Core Length: (20) 40 60 80 100 other
Scope: 30'
Trigger Line Length: 32'
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): NA

Tension:
At surface: 5,300 lbs.
Prior to trip: 13,500 lbs
On Bottom: 9,200 lbs
Pullout (max): 18,083
Ascending: 13,800 lb

Other Samplers:

Type & No:	Section	Length:
45TC	1	10'

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	41.5	0	41.5	
2	151	41.5	192.5	
3	150	192.5	342.5	
4	130	342.5	472.5	
TC-sec 1	0-136.5	0	136.5	

Remarks:
2 pigs. 7 lead rings on TC. Single washer pair shock absorber.

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 31
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705 - 46 GC
Mo/Day/Yr 5 / 23 / 07
Observer PATTON

Latitude:	launch	02	D 56 . 544	min	N	(S)
	on bottom	02	D 56 . 52	min	N	S
Longitude:	launch	98	D 52 . 050	min	(E)	W
	on bottom	98	D 52 . 23	min	E	W

Navigation Type: Loran SatNav (GPS) PCODE other ____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
(Benthos Corer-GC)
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other ____

	launched	on bottom	recovered	
Time:	09:20	1025		(GMT)
Water Depth:	5727	5813		Meters
Wire:	0			Meters

Piston Core Length: 20 40 60 80 100 other (10)
Scope: NA
Trigger Line Length: NA
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): 75

Tension:

		X	payout
At surface:	250	1	548
Prior to trip:	1750	2	1275
On Bottom:	1600	3	2025
Pullout (max):	2147	4	2775
Ascending:		5	3543
	WIRE out?	6	4330
		7	

Other Samplers:

Type & No:	Section	Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	147	0	147	

Remarks:
- Benthos GC deployed with plastic sock
- 100 mPM

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 31 D
Cruise: KN182-05RR Leg: 2
Core Name & Station # RR0705-47TC
Mo/Day/Yr 5 / 23 / 07
Observer PATTON

Latitude: launch 2 D 56 . 518 min N S
on bottom 2 D 56 . 5187 min N S
Longitude: launch 98 D 52 . 229 min E W
on bottom 98 D 52 . 2261 min E W

Navigation Type:
Loran SatNav GPS PCODE other

	launched	on bottom	recovered	
Time:	13:01	15267		(GMT)
Water Depth:	5726			Meters
Wire:	0	5698		Meters

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other

Piston Core Length: 20 40 60 80 100 other
Scope: ~~NA 29'6"~~
Trigger Line Length: ~~30' NA 29'6"~~ 32"
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): NA

Tension:
At surface: 5000
Prior to trip: 130001bs @ 5500m
On Bottom: 87001bs
Pullout (max): 175591bs
Ascending:

Other Samplers:

Type & No:	Section	Length:
47TC		

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
PC sec 1	147.5	0	147.5	
sec 2	124.5	147.5	272	
				WEIGHT STAND
				HAD MUD INSIDE
TC sec 1	143	0	143	
sec 2	8	143	151	

Remarks:
20' piston core deployed. single washer pair installed
2 pigs 7 lead rings on TC
40 MPM. ENG ADVISE NEED TO TIGHTEN BOLTS IN WINCH AFTER PULLOUT.
BLOCK ABOVE TRACTION UNIT FAILING?, NO MORE CORING W/A CRANE - C.E.

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Cruise: KNOX05RR Leg: 2
Mo/Day/Yr 5 / 23 / 07

Ship Station # 32
Core Name & Station # RR0705 - 48GC
Observer ROMSOS

Latitude: launch 3 D 16 . 090 min N (S)
on bottom 3 D 16 . 090 min N (S)
Longitude: launch 99 D 16 . 472 min (E) W
on bottom 99 D 16 . 476 min (E) W

Navigation Type: Loran SatNav GPS PCODE other ____

	launched	on bottom	recovered	
Time:	23:56	00:58		(GMT)
Water Depth:	5790	5790		Meters
Wire:		5863		Meters

Piston Core Length: 20 40 60 80 100 other 10

Scope: NA
Trigger Line Length: NA
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): 75m

Tension:

At surface:	25016.
Prior to trip:	15501b.
On Bottom:	15001b.
Pullout (max):	21331b.
Ascending:	18501b.

∝	Wire m
1	580
2	1330
3	2085
4	2840
5	3590
6	4380
7	5142

750

Other Samplers:

Type & No:	Section	Length:

Remarks:

Descent = 100 mpm

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other ____

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	39	0	39	
2	1305	39	169.5	

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # ~~31~~ 32
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705 - 49 PC
Mo/Day/Yr 5 / 24 / 07
Observer Ramsos

Latitude:	launch	3	D 16	.088 min	N	(S)
	on bottom	3	D 16	.0894 min	N	S
Longitude:	launch	99	D 16	.476 min	(E)	W
	on bottom	99	D 16	.4766 min	E	W

Navigation Type:
Loran SatNav (GPS) PCODE other_____

	launched	on bottom	recovered	
Time:	04:08	06529		(GMT)
Water Depth:	5790	5777 m		Meters
Wire:	0	5760		Meters

METER WHEEL 5760m WO
ECHO 5789m

Sampler types
2.5" Piston Core - PC
(4" Piston Core - PC)
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

Piston Core Length: (20) 40 60 80 100 other_____
Scope:_____
Trigger Line Length:_____
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): NA

Tension:
At surface: 5000
Prior to trip:
(MISSED) On Bottom: 16,700 lbs
Pullout (max):
Ascending:

Other Samplers:
Type & No: Section Length:
49 TC

	PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
PC	sec 1	122	0	122	
	sec 2	150	122	272	
	sec 3	125	272	397	
TC	sec 1	125.5	0	125.5	
	sec 2	132	125.5	257.5	

Remarks:

- 40 mpm descent rate
- blade below decks is still making noise

"IT MAKES YOU REALIZE, MOSER IS SMARTER THAN HE LOOKS." ANNON,

WINCH STOP 062027 5' 20mwo STOP CALL BY ENG OF WATCH.

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 33
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705 - 50GC
Mo/Day/Yr 5 / 24 / 07
Observer PATTON

Latitude:	launch	3	D 39 . 488	min	N	S
	on bottom	3	D 39 . 49	min	N	S
Longitude:	launch	99	D 36 . 256	min	E	W
	on bottom	99	D 36 . 26	min	E	W

Navigation Type: Loran SatNav GPS PCODE other_____

	launched	on bottom	recovered	
Time:	~ 1420	1535		(GMT)
Water Depth:	5806	5806		Meters
Wire:	0	5907		Meters

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

Piston Core Length: 20 40 60 80 100 other 10.
Scope: NA
Trigger Line Length: NA
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): 75

Tension:

At surface:	175
Prior to trip:	1500
On Bottom:	1400
Pullout (max):	2120
Ascending:	

X	Payout
1	602
2	1356
3	2150
4	2890
5	3630
6	4398
7	5190

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
sec 1	107	0	107	

Remarks:

- Benthos GC deployed with plastic sock
- 40 mpm descent → 100 m/min
- 3.5K ⇒ 2007_144_1021_012.kab, sgy

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 34
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705-51GC
Mo/Day/Yr 5 / 24 / 07
Observer ~~PATTON~~ JRP ROMSOS, Dorrance

Latitude: launch 64 D 08 . 9010 min N (S)
on bottom 04 D 08 . 9017 min N S
Longitude: launch 099 D 57 . 1871 min (E) W
on bottom 099 D 57 . 1857 min (E) W

Navigation Type:
Loran SatNav (GPS) (PCODE) other

	launched	on bottom	recovered	
Time:	21:35	2244		(GMT)
Water Depth:	5988m	5987		Meters
Wire:	Ø	6071		Meters

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
(Benthos Corer-GC)
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other

Piston Core Length: 20 40 60 80 100 (other 10)
Scope: NA
Trigger Line Length: NA
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): 75

Tension:

At surface:	210 lbs.
Prior to trip:	1600
On Bottom:	1560
Pullout (max):	2166
Ascending:	

1	772
2	1522
3	2279
4	3040
5	3808
6	4578
7	5356

Other Samplers:

Type & No:	Section	Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
NO	RECOVERY			EXCEPT FOR
TRACE	SAND	ON	PLASTIC	BAG.
POSSIBLY	DUE	TO	POOR	PENETRATION
INTO	SAND	ON	SEA	FLOOR. JRP
TRACE	MUD.			

Remarks:
- Plastic bag on catcher
- 117" liner
- 100 m/min descent/Ascent
- 5 MIN @ BOTTOM

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 35
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705-52GC
Mo/Day/Yr 5 / 25 / 07
Observer PATTON, Dorrance

Latitude:	launch	04	D 18 . 758	min	N	S
	on bottom	04	D 18 . 759	min	N	S
Longitude:	launch	100	D 05 . 834	min	E	W
	on bottom	100	D 05 . 834	min	E	W

Navigation Type: Loran SatNav GPS PCODE other_____

	launched	on bottom	recovered	
Time:	03:41	04:46		(GMT)
Water Depth:	5990	5991		Meters
Wire:	0	6066		Meters

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

Piston Core Length: 20 40 60 80 100 other 10
Scope: NA
Trigger Line Length: NA
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): 75

Tension:

At surface:	200
Prior to trip:	1600
On Bottom:	≈ 1600
Pullout (max):	2297
Ascending:	1950

1	785 m
2	
3	
4	
5	
6	
7	5355

Other Samplers:

Type & No:	Section	Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	13.7	0	13.7	
The outside of the core barrel was coated in mud for ~ 2m (all the way around). Above the short sediment sample, the entire water column was opaque chocolate milk.				

Remarks:
- Benthos GC deployed with plastic sock
- 117" liner, Same liner + piston used on previous GC deployment
- 100 m wire speed, Stop @ 5,750 m wire out
- Piston "loose", possible Rt. Spring damage on piston Apparatus.

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 36
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705 - 53GC
Mo/Day/Yr 5 / 25 / 07
Observer PATTON

Latitude: launch 04 D 35 .4884 min N (S)
on bottom 04 D 35 .4892 min N (S)
Longitude: launch 100 D 15 .4197 min (E) W
on bottom 100 D 15 .4189 min (E) W

Navigation Type:
Loran SatNav GPS (PCODE) other

	launched	on bottom	recovered	
Time:	0830Z	0934Z		(GMT)
Water Depth:	6060m	6063m		Meters
Wire:	0	6137m		Meters

Piston Core Length: 20 40 60 80 100 other 10
Scope: NA
Trigger Line Length: NA
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): 75

Tension:
At surface:
Prior to trip:
On Bottom: 1641 lbs
Pullout (max): 22551bs
Ascending:

~7/8 LAYERS USABLE @ 5500 mud

Other Samplers: 1/4" HYDRO WIRE

Type & No: Section Length:

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
(Benthos Corer-GC)
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	16.8	0	16.8	

Remarks: Benthos GC deployed from starboard hydro winch w/ plastic sock. taped to core catcher

QUOTE OF THE CORE,
"IDIOSYNCRACIES ASIDE, MOSER DOES SEEM TO KNOW PISTON CORING."
ANNON. ALSO

- Flapper valve has 2 springs
- after core recovered and on deck: covered in mud (all the way around) for ~2 filled with
- core filled with chocolate milk colored water. it looked like the core was sediment: it was not.

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 36
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705 - 54GC
Mo/Day/Yr 5 / 25 / 07
Observer PATTON / WALCZAK

Latitude:	launch	04	D 35 . 489	min	N	S
	on bottom	04	D 35 . 489	min	N	S
Longitude:	launch	100	D 15 . 419	min	E	W
	on bottom	100	D 15 . 419	min	E	W

Navigation Type: Loran SatNav GPS PCODE other _____

	launched	on bottom	recovered	
Time:	12:20	1330		(GMT)
Water Depth:	6060	6061		Meters
Wire:	0	6160		Meters

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

Piston Core Length: 20 40 60 80 100 other 10
Scope: NA
Trigger Line Length: NA
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): 75

Tension:

At surface:	150
Prior to trip:	1651
On Bottom:	1200
Pullout (max):	2050
Ascending:	

X	Payout
1	
2	848
3	1600
4	2360
5	3100
6	3880
7	4650
8	5430

Other Samplers:

Type & No:	Section	Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
Sec 1	43	0	43	
- almost entire outside surface of core is coated in mud. - water above sediment is almost entirely clear				

Remarks:
- Benthos GC deployed from starboard w/ taped plastic sock.
- flapper valve is the one glued by C. Moser, it has a single spring and is not the valve used in 53GC.
- PULLED OUT OF BOTTOM @ 10MPM.

Revised 3/07

OSU Oceanography ✓✓
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 37
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705-55PC
Mo/Day/Yr 5 / 25 / 07
Observer Dorrance

Latitude:	launch	04	D 31 . 179	min	N	S
	on bottom	84	D 31 . 1785	min	N	S
Longitude:	launch	100	D 12 . 786	min	E	W
	on bottom	100	D 12 . 7854	min	E	W

Navigation Type: Loran SatNav GPS PCODE other_____

	launched	on bottom	recovered	
Time:	16:36	19:21		(GMT)
Water Depth:	6046	6046		Meters
Wire:	0	6020		Meters

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

Piston Core Length: 20 40 60 80 100 other_____
Scope: 30'
Trigger Line Length: 32'
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): NA

Tension:
At surface: 5150
Prior to trip: 15,750 @ 6000
On Bottom: 11,500
Pullout (max): 21,176
Ascending: 16,500 lb

Other Samplers:
Type & No: Section Length:
55 TC

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
PC sec 1	137	0	137	
sec 2	123	137	260	
TC RECOVERED No Sediment. - empty!				

Remarks:
- Piston core deployed from stern A frame.
- 40 m/min Des/Asc
- 4510 m out, winch Failure, to all Stop, 1531 (GMT)
- Start again @ 1534 slow increase in winch speed back to 40 m/min
- Stop again @ 1837 GMT, winch failure, 4637 m wire out. Started again ~ 1847 w/ speeds ~ 40 m/min

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle

Ship Station # 38

Cruise: KNOX05RR Leg: 2

Core Name & Station # RR0705-56 GC

Mo/Day/Yr 5 / 26 / 07

Observer PATTON I

Latitude: launch 05 D 26 .410 min N S

on bottom 05 D 26 .4145 min N S

Longitude: launch 100 D 47 .920 min E W

on bottom 100 D 47 .9249 min E W

Navigation Type:
Loran SatNav GPS PCODE other

	launched	on bottom	recovered	
Time:	0745	0859Z		(GMT)
Water Depth:	6069	6069m		Meters
Wire:	0	4166		Meters

Piston Core Length: 20 40 60 80 100 other 10

Scope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75

Tension:

At surface:	175
Prior to trip:	1500-2000lbs
On Bottom:	
Pullout (max):	2129lbs
Ascending:	

oscillation at stop 5800m

x	payout
1	~950
2	1610
3	2375
4	3130
5	3895
6	MISS
7	5430

Other Samplers:

Type & No: Section Length:

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
~~Gravity - GC~~
Benthos Corer-GC
~~Kasten - K~~
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
				Liner Contents accidentally came out; repacked into ½ liner, cut to size.

Remarks:

Benthos GC deployed with plastic sock from starboard hydro winch 100 mpm

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 38
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705 - 57PC
Mo/Day/Yr 5 / 26 / 07
Observer PATTON

Latitude: launch 05 D 26 . 414 min N (S)
on bottom 05 D 26 . 4131 min N S
Longitude: launch 100 D 47 . 926 min (E) W
on bottom 100 D 47 . 9269 min (E) W

Navigation Type: Loran SatNav (GPS) PCODE other_____

Sampler types
2.5" Piston Core - PC
4" Piston Core - ~~IC~~ PC
4" Gravity (Big Bertha) GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

	launched	on bottom	recovered	
Time:	11:32	1410		(GMT)
Water Depth:	6069			Meters
Wire:	~14m	6043		Meters

Piston Core Length: 20 40 60 80 100 other_____
Scope: 3 30
Trigger Line Length: 32'
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): NA

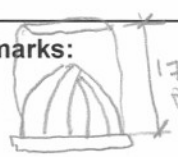
Tension:
At surface: ~5100
Prior to trip: Oscillations
On Bottom: 21 300 lbs
Pullout (max): 21 300 lbs
Ascending:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
PC sec 1	62	0	62	
sec 2	151.3	62	213.3	
sec 3	149.9	213.3	363.2	
sec 4	128.1	363.2	491.3	
NOTE SECTIONS RECOVERED AGAIN!				

Other Samplers:

Type & No:	Section	Length:
57 TC		

Remarks:



40 mpm

4" Piston core deployed from stern A frame w/ plastic sock
Bit mounted next to rack that was extended further astern
WINCH TRIPS OFF 1411Z W/ CORE IN BOTTOM. 1414Z WINCH UP AT 3m/min

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 39
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705 - 58GC
Mo/Day/Yr 5 / 27 / 07
Observer PATTON

Latitude:	launch	06	D 32 . 7304	min	N	S
	on bottom	06	D 32 . 7310	min	N	S
Longitude:	launch	101	D 53 . 1619	min	E	W
	on bottom	101	D 53 . 1643	min	E	W

Navigation Type:
Loran SatNav GPS PCODE other_____

	launched	on bottom	recovered	
Time:	05:13	0618		(GMT)
Water Depth:	6278	6275		Meters
Wire:	0	6360		Meters

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

Piston Core Length: 20 40 60 80 100 other 10
Scope: NA
Trigger Line Length: NA
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): 75

Tension:

At surface:	~200
Prior to trip:	1690
On Bottom:	1400
Pullout (max):	2345
Ascending:	2275

X	payout
1	307
2	1060
3	1813
4	2562
5	3321
6	4085
7	4875
8	5648

Other Samplers:

Type & No:	Section	Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
sec. 1	148.9	0	148.9	1.4cm foam on bottom

Remarks:
- Benthos GC deployed with plastic sock from hydro winch
- PULLED OUT @ 10MPM

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 39
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705 - 59PC
Mo/Day/Yr 5 / 27 / 2007
Observer PATTON/WALCZAK

Latitude: launch 36 D 32.731 min N S
on bottom 36 D 32.____ min N S
Longitude: launch 101 D 53.166 min E W
on bottom 101 D 53.____ min E W
Navigation Type: Loran SatNav GPS PCODE other____

	launched	on bottom	recovered	
Time:	0818	1131		(GMT)
Water Depth:	6275			Meters
Wire:	0	6250		Meters

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other ____

Piston Core Length: 20 40 60 80 100 other____
Scope: 3.0
Trigger Line Length: 32-chain
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): NA

Tension:
At surface: 5500
Prior to trip: 16,000
On Bottom: 10 000
Pullout (max): 18800
Ascending: ____

Other Samplers:
Type & No: Section Length:
59 TC

	PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
TC	Sec1	80.8	0	80.8	
TC	Sec2	112.8	80.8	1935	
	Pre-trip in water column				
	Took corer to bottom and laid on side.				
	Recovered TC sample. No PC sample recovered.				
	NOTE: Used chain cut to 32ft. for trigger line.				

Remarks:
Piston core deployed with plastic sock from stern A-frame.
TC also was plastic sock.
TC line is chain 3/8"
Switched to mooring line for ball-line
stop's restard @ 4549, @ 6150
excursion to 2 3302, possible pretrip, but no lower excursion to match pretrip examples of CM.

ENG. STOP & ADJUST WINCH. SURGING LOADS SEEM TO TRIP ELECTRONIC CONTROLS,

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 40
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705-60GC
Mo/Day/Yr 5 / 27 / 07
Observer PATTON / ROMSOS

Latitude: launch 06 D 08 . 339 min N (S)
on bottom 06 D 08 . 339 min N (S)
Longitude: launch 101 D 53 . 315 min (E) W
on bottom 101 D 53 . 316 min (E) W

Navigation Type: Loran SatNav (GPS) (PCODE) other _____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
(Benthos Corer-GC)
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

	launched	on bottom	recovered	
Time:	19 00	1953		(GMT)
Water Depth:	4184	4190		Meters
Wire:	~~9~~ 0	4243		Meters

Piston Core Length: 20 40 60 80 100 (other 10)
Scope: NA
Trigger Line Length: NA
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): ~~75 84~~ 75

Tension:

		X	payout
At surface:	150	1	Fuzzy 2520
Prior to trip:	1200	2	1275
On Bottom:	1106	3	2025
Pullout (max):	1774	4	2783
Ascending:	1425	5	3545
		6	

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
sec. 1	72.5	0	72.5	
sec. 2	100	72.5	172.5	

Remarks: Benthos GC deployed from Starboard hydro winch w/plastic sock
- Bottom Return from pinger very light at start of descent. likely a result of the local topography

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 40
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705-61PC
Mo/Day/Yr 5 / 28 / 07
Observer Romsos

Latitude: launch 06 D 08 . 338 min N (S)
on bottom 06 D 68 . 339 min N (S)
Longitude: launch 101 D 53 . 317 min (E) W
on bottom 101 D 53 . 317 min (E) W

Navigation Type:
Loran SatNav (GPS) (PCODE) other_____

	launched	on bottom	recovered	
Time:	00:09	0158		(GMT)
Water Depth:	4187	4184		Meters
Wire:	0	4184		Meters

Sampler types
2.5" Piston Core - PC
(4" Piston Core - JC)
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

Piston Core Length: (20) 40 60 80 100 other_____
Scope: 26.5'
Trigger Line Length: 32' chain
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): NA

Tension:
At surface: 5,250 lb
Prior to trip: 12,530 - 13,000 lb
On Bottom: 7,800 lb
Pullout (max): 18,000 lbs
Ascending: 13,000 lb

Other Samplers:

Type & No:	Section	Length:
61TC		

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	129	0	129	61TC
2	146	129	275	
1	151	0	151	61PC
2	150	151	301	
3	127	301	428	
				Core penetrated to base of bomb. ~20ft.
				Recovered ~ 16 ft of sediments.

Remarks:

→ Piston core deployed from Stern A-Frame, w/plastic sock, 2pigs in the Bomb.
→ Trigger core line is 3/8" chain, 7 lead rings on the TC, TC has a plastic sock
→ 0150, 200 m off of Bottom, Winch Stop.
- 40 m/min descent following, @ 0154

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 41
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705-62GC
Mo/Day/Yr 5 / 28 / 07
Observer PATTON/WALCZAK/NILSON

Latitude:	launch	05	D 36	.567 min	N	(S)
	on bottom	05	D 36	.5710 min	N	(S)
Longitude:	launch	101	D 28	.609 min	(E)	W
	on bottom	101	D 28	.6082 min	(E)	W

Navigation Type:
Loran SatNav (GPS) (PCODE) other_____

	launched	on bottom	recovered	
Time:	1024	1352Z		(GMT)
Water Depth:	3392			Meters
Wire:	0	3447m		Meters

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
(Benthos Corer-GC)
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

Piston Core Length: 20 40 60 80 100 (other 10)
Scope: NA
Trigger Line Length: NA
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): 75

Tension:

At surface:	
Prior to trip:	
On Bottom:	8421bs
Pullout (max):	1581 lbs
Ascending:	

X	payout
1	484
2	1236
3	1985
4	2736

Other Samplers:

Type & No:	Section	Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
sec. 1	119.2	0	119.2	

Remarks:
Benthos core with plastic sock deployed from starboard hydro winch 1000psi
Pinger issues @ 1600m wire out, 1948: brought pinger to surface 1000psi to replace possible dead batteries.
Up to 75min to change pingers, Pinger S/N 1305 attached & deployed @ 13:15

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Cruise# KNOX05RR Leg: 2
Mo/Day/Yr 5 / 28 / 07

Ship Station # 41
Core Name & Station # RR0705 - 63 PC
Observer PATTON

Latitude:	launch	05	D 36.570	min	N	S
	on bottom	05	D 36.570	min	N	S
Longitude:	launch	101	D 28.607	min	E	W
	on bottom	101	D 28.608	min	E	W

Navigation Type:
Loran SatNav GPS PCODE other_____

	launched	on bottom	recovered	
Time:	1530	1657		(GMT)
Water Depth:	3397	3397		Meters
Wire:	0	3371		Meters

Sampler types
2.5" Piston Core - PC
4" Piston Core - PC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

Piston Core Length: 20 40 60 80 100 other_____
Scope: 25
Trigger Line Length: 32
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): NA

Tension:
At surface: ~ 5000
Prior to trip: 11,000
On Bottom: 6300
Pullout (max): 15,150
Ascending: 12,000

Other Samplers:

Type & No:	Section	Length:
63 TC		

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
sec. 1 PC	130.8	0	130.8	
sec. 2 PC	129.2	130.8	260	
sec. 1 TC	110	0	110	

Remarks:
- 63 PC deployed from stern A-frame w/17cm plastic sock.
- hook caught on padeye, shackle caught on track, ~~stopper line was never placed in fore shackle (stayed in aft shackle entire deployment)~~
- next time when the samson line is moved from the capstan to the bit, we will use the line between the weight stand and the block to ensure the weight stand remains starboard of the center line.

Revised 3/07

Pinger S/N 1305

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 42
Cruise: KNOX0 Leg: 2
Core Name & Station # RR0705 - 64 GC
Mo/Day/Yr 5 / 29 / 07
Observer PATTON/JD

Latitude:	launch	04	D 34	.740	min	N	S
	on bottom	04	D 34	.741	min	N	S
Longitude:	launch	100	D 51	.478	min	E	W
	on bottom	100	D 51	.478	min	E	W

Navigation Type:
Loran SatNav GPS PCODE other_____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

	launched	on bottom	recovered	
Time: (0442 →)	0442	0516		(GMT)
Water Depth:	2751			Meters
Wire:	0	2785		Meters

Piston Core Length: 20 40 60 80 100 other 10
Scope: NA
Trigger Line Length: NA
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): 75

Tension:

At surface:	750
Prior to trip:	900
On Bottom:	780
Pullout (max):	1473
Ascending:	1000

x	payout
1	600
2	
3	
4	

Other Samplers:

Type & No:	Section	Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
sec1	86.4	0	86.4	
sec2	90.5	86.4	176.9	

Remarks:

- Benthos GC deployed w/ plastic sock on starboard hydro winch.
- liner made of two sections taped together, 100 cm & 163/4 cm sxns
- 100 m/min desc

estimate 5m at Bomb surface, close to ZERO.

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 42
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705 - 65PC
Mo/Day/Yr 5 / 29 / 07
Observer PATTON

Latitude:	launch	04	D 34	.740 min	N	S
	on bottom	04	D 34	.7395 min	N	S
Longitude:	launch	100	D 51	.478 min	E	W
	on bottom	100	D 51	.4787 min	E	W

Navigation Type: Loran SatNav GPS PCODE other _____

	launched	on bottom	recovered	
Time:	0649	0758	0200	(GMT) 5/30/07
Water Depth:	2751	2752		Meters
Wire:	0	2737		Meters

Sampler types
2.5" Piston Core - PC
4" Piston Core - ~~PC~~ PC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC STUCK 2719.5m
Dredge - DR
Rock Core - RC ~~2717.5m~~
Shipek Grab - SG 2717.0m
Other _____

Piston Core Length: 20 40 60 80 100 other _____
Scope: 23'6" 24'
Trigger Line Length: 32'
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): NA

Tension:
At surface: ~5000
Prior to trip: _____
On Bottom: 41581bs
Pullout (max): _____
Ascending: _____

Other Samplers:

Type & No:	Section	Length:
65 TC		

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	142	0	142	TC ↓
2	126	142	268	
1	71.5	0	71.5	PC ↓
2	150.5	71.5	222	
3	150.3	222	372.3	
4	120	372.3	492.3	

Remarks:
PISTON CORE DEPLOYED FROM STERN A FRAME w/ plastic SOCK @ 40 MPM

Bomb & 2000m wire ≈ 8000 lbs

Wire @ 2720m Tension 2342 lbs
stop winch, roll ship

Revised 3/07

RR0705-65PC

CORE LOG

Julian 149

0758Z — Core stuck in bottom. Pulling vertical. >27,000lbs. Average 24,000lbs.

2134 - SHIFTED WINCH CONTROL TO COMPUTER LAB
- REDUCED LINE TENSION TO 4400 AVG (WEIGHT OF WIRE)
- 2717 m OF WIRE OUT AT START
- 2735m OF WIRE OUT (BOTTOM DEPTH 2753m)

2136 - BEGIN PULLING STRAIGHT AHEAD AT 004°

2145 - MOVING 500m NORTHWARD - YIELDS 10° ANGLE FROM VERTICAL

2157 - 2779 m WIRE OUT

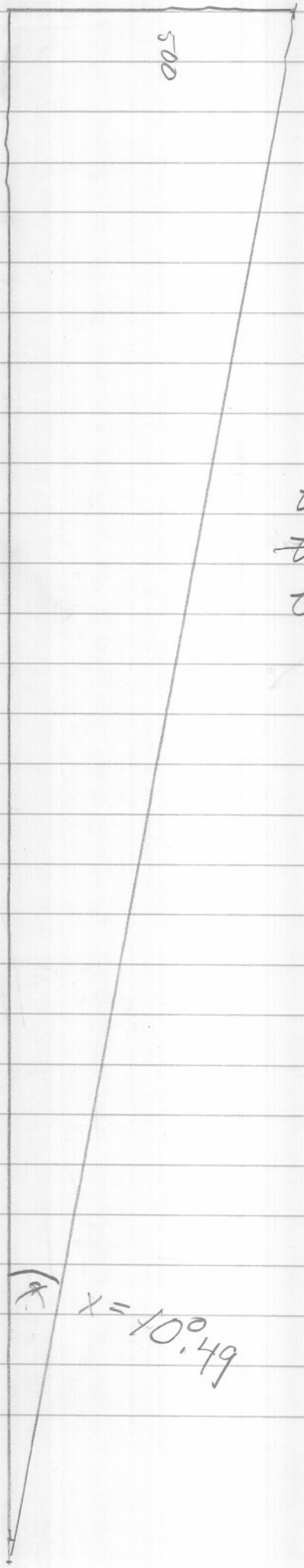
2206

2212 - ON SITE 500m N
- INCREASING WIRE OUT TO 2860m
- TENSION - AROUND 9000 - 11,000, INCREASING TO 18,000 ↑ → 24000, WIRE OUT = 2764m

2222 HOLDING AT 24000 LBS TENSION

2306 - RELEASED

2316 - TENSION DROPPED TO 6000 LBS
- STARTED PULLING WIRE IN AT 5m/MIN
- WE THINK THE PACKAGE IS DRAGGING ALONG BOTTOM
- SHIP IS BACKING DOWN SLOWLY



Ship moves 500 m
Depth = 2700 m

$\frac{500}{2700}$ = tangent $\angle x$

$0.1851851 = \tan \angle x$

$\tan 5° = 0.0874886$

~~$\tan 10° = 0.1851851$~~

$\tan 10.49° = 0.1851851$

65 PC
29 MAY 07
R/V Revelle

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 43
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705 - 66GC
Mo/Day/Yr 5 / 30 / 07
Observer PATTON

Latitude: launch 03 D 48 .253 min N S
on bottom 03 D 48 .2538 min N S
Longitude: launch 100 D 02 .548 min E W
on bottom 100 D 02 .5475 min E W

Navigation Type: Loran SatNav GPS PCODE other

	launched	on bottom	recovered	
Time:	1134	1218Z		(GMT)
Water Depth:	3891			Meters
Wire:	0	3951m		Meters

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other

Piston Core Length: 20 40 60 80 100 other 10
Scope: NA
Trigger Line Length: NA
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): 75

Tension:

	kpayout
At surface:	200
Prior to trip:	
On Bottom:	
Pullout (max):	16941/65
Ascending:	

1
2
3
21

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	80	0	80	
2	82	80	162	

RECOVERED UNFOULED.

Remarks: Benthos GC deployed from starboard hydro winch w/plastic sock

1/4" HYDRO WIRE USED TO PREVENT FOULING THUS;

4 HOLES IN LOWER CORNER EACH FIN.
HYDRO WIRE REEVED THRU EACH HOLE & TENSIONED PRESSED).

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 43
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705 67PC
Mo/Day/Yr 5 / 30 / 07
Observer PATTON / Walczak

Latitude: launch 03 D 40 .253 min N S
on bottom 03 D 40 .254 min N S
Longitude: launch 180 D 02 .546 min E W
on bottom 180 D 02 .548 min E W
Navigation Type: Loran SatNav GPS PCODE other

	launched	on bottom	recovered	
Time:	1350	1530		(GMT)
Water Depth:	3888	3896		Meters
Wire:	0	3896.8		Meters

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
~~4" Gravity (Big Bertha)-GC~~
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other

Piston Core Length: 20 40 60 80 100 other
Scope: 25.6"
Trigger Line Length: 32"
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): NA

Tension:
At surface: 4900
Prior to trip: 11500
On Bottom: 7500
Pullout (max): 23027
Ascending:

Other Samplers:
Type & No: Section Length:
67 TC

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	58	0	58	
2	150	58	208	
3	150.5	208	358.5	
4	128.5	358.5	487	
TC: 1	91	0	91	
2	150	91	241	

Remarks:
- Piston core deployed from stern A-frame with plastic sock.
- 40 mpm - new cable termination following 65 PC.

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 43
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705-68MC
Mo/Day/Yr 5 / 30 / 2007
Observer Ramsey

Latitude:	launch	03	D 40	.2535 min	N	(S)
	on bottom	03	D 40	.2536 min	N	(S)
Longitude:	launch	100	D 02	.5475 min	(E)	W
	on bottom	100	D 02	.5471 min	(E)	W

Navigation Type: Loran SatNav (GPS) PCODE other _____

	launched	on bottom	recovered	
Time:	18:50	20:41:30		(GMT)
Water Depth:	3890	3890		Meters
Wire:		3897		Meters

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
(Multi Corer - MC)
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

Piston Core Length: 20 40 60 80 100 other Multicore
Scope: NA
Trigger Line Length: NA
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): 75m

Tension:

At surface:	~ 10016
Prior to trip:	7,000
On Bottom:	6,000
Pullout (max):	8,200
Ascending:	7,500

X	wire
1	215
2	965
3	1720
4	2455
5	3206

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Cum Length (cm from top) Lower	Remarks
NO RECOVERY				

Remarks:

- on bottom for 3.5 minutes, approx 10 m slack in the wire when on bottom.
- pullout = 5 mpm

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle — Ship Station # 43

Cruise: KNOX05RR — Leg: 2 — Core Name & Station # RR0705-69MC

Mo/Day/Yr 5 / 30 / 2007 — Observer Romsos

Latitude:	launch	03 D 40 . 2532 min	N	(S)		
	on bottom	03 D 40 . 5538 min	N	(S)		
Longitude:	launch	100 D 02 . 5475 min	(E)	W		
	on bottom	100 D 02 . 5485 min	(E)	W		

Navigation Type: Loran SatNav (GPS) PCODE other _____

	launched	on bottom	recovered	
Time:	23:45	01:30:30		(GMT)
Water Depth:	3893	3893		Meters
Wire:	ϕ	~~3887~~/3888		Meters

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
(Multi Corer - MC)
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

Piston Core Length: 20 40 60 80 100 (other MC) — on Bottom Slack

Scope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75m

Tension:

At surface:	≈ 1,000 lb.
Prior to trip:	7,000 lb.
On Bottom:	5,900 lb.
Pullout (max):	
Ascending:	

X	Z
1	NA
2	968
3	1715
4	2456
5	3207

Other Samplers:

Type & No: Section Length:

Remarks:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
NO RECOVERY				

→ After the previous failed mc attempt, Jim/Chris M. removed the plug in the mc "piston" mechanism. Previous successful coring using this config.

→ Time on bottom = 3 minutes 17 seconds ; Slack = 11 m

→ Pullout = 5mpm ;

Revised 3/07

Depth 5804
Pulling 5781
23

RMM/LS

OSU Oceanography ✓
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Ruelle
Ship Station # 33
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705 - 70PC
Mo/Day/Yr 5 / 31 / 07
Observer PATTON/Wilson

Latitude: launch 03 D 39 . 458 min N (S)
on bottom 03 D 39 . ____ min N (S)
Longitude: launch 99 D 36 . 256 min (E) W
on bottom 99 D 36 . ____ min (E) W

Navigation Type: Loran SatNav (GPS) (PCODE) other____

Sampler types
2.5" Piston Core - PC
4" Piston Core - (PC)
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other ____

	launched	on bottom	recovered	
Time:	0639	0936		(GMT)
Water Depth:	5804			Meters
Wire:	0	5804		Meters

Piston Core Length: (20) 40 60 80 100 other____
Scope: 29'6"
Trigger Line Length: 32'
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): NA

Tension:
At surface: 5000
Prior to trip: ____
On Bottom: 8-9000 lbs
Pullout (max): 18678 lbs
Ascending: ____

Other Samplers:
Type & No: Section Length:
70 TC
Bagged: top 3.5cm core cutter

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
PC: 1	77.4	0	77.4	
2	151.4	77.4	228.8	
3	149.8	228.8	378.6	
4	130.3	378.6	508.9	
TC: 1	90.5	0	90.5	
2	90.5	90.5	181	
Bagged:	top of PC	sec. 1		
	weight stand			
	PC nose cone	(		subsampled into benthos liner

Remarks:
Piston core deployed from stern A-frame w/ 17 cm plastic sock liner.

Mushy Trip.

Winch trip @ 3296 m w.d, 5781 mwd, 4106 mwd, 5782 mwd

Revised 3/07

OSU Oceanography ✓
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 44
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705-71GC
Mo/Day/Yr 5 / 31 / 07
Observer PATTON

Latitude:	launch	02	D 58	.849 min	N	S
	on bottom	02	D 58	.870 min	N	S
Longitude:	launch	99	D 25	.725 min	E	W
	on bottom	99	D 25	.709 min	E	W

Navigation Type: Loran SatNav GPS PCODE other

	launched	on bottom	recovered	
Time:	1914	2016		(GMT)
Water Depth:	4082	4074		Meters
Wire:	0	4136		Meters

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other

Piston Core Length: 20 40 60 80 100 other 10
Scope: NA
Trigger Line Length: NA
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): 75

Tension:

At surface:	~250
Prior to trip:	1150
On Bottom:	1050
Pullout (max):	1702
Ascending:	~1400

1400 max →

x	Payout
1	410 <3>
2	1167 <10>
3	1922 <15>
4	2678 <21>
5	3438 <31>

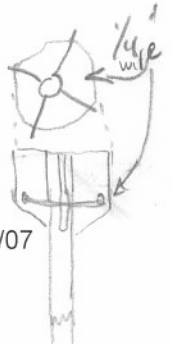
Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Cum Length (cm from top) Lower	Remarks
1	126.5	0	126.5	

Remarks:

- Benthos GC deployed w/ plastic sock from starboard hydro winch.
- 0 1/4" wire rope anti-fouling device installed
- no bow thruster, manually positioned
- retrieved after 75 m p-t on deck for ship maneuvering, redployed after 10-15 min. Launch time provided may be inaccurate.



OSU Oceanography ✓
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle — Ship Station # 44

Cruise: KNOX05RR — Leg: 2 — Core Name & Station # RR0705 - 72 PC

Mo/Day/Yr 5/31/07 — Observer PATTON

Latitude: launch 02 D 58 . 868 min N (S)
on bottom 02 D 58 . 869 min N (S)

Longitude: launch 99 D 25 . 708 min (E) W
on bottom 99 D 25 . 708 min (E) W

Navigation Type: Loran SatNav (GPS) (PCODE) other _____

	launched	on bottom	recovered	
Time:	2156	2337		(GMT)
Water Depth:	4082	4082		Meters
Wire:	0	4065		Meters

Sampler types
2.5" Piston Core - PC
(4" Piston Core - JC)
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

Piston Core Length: (20) 40 60 80 100 other _____

Scope: 26'

Trigger Line Length: 32'

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): NA

Tension:

At surface: ~5300

Prior to trip: ~12,000 lbs

On Bottom: 6,020

Pullout (max): ~~16~~ 16,970 lbs

Ascending: 13,1K lbs

Other Samplers:

Type & No:	Section	Length:
72 TC	1	0-84
	2	84 - 234.5

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	69	0	69	
2	150.5	69	219.5	
3	151	219.5	370.5	
4	128.8	370.5	499.3	

Remarks:

- PISTON CORE Deployed from Stern A-frame with plastic sock. 2 pigs
- Bow thruster out, manually positioned
- 40 MPM
- Deployed an additional 12-13 m of wire after trip / all Stop command. winch failure?

Revised 3/07

OSU Oceanography ✓
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 44
Cruise: Juno + 05RR Leg: –
Core Name & Station # RR0705-73MC
Mo/Day/Yr 06 / 01 / 07
Observer J. Dorrance

Latitude: launch 02 D 58 . 870 min N (S)
on bottom 02 D 58 . 870 min N (S)
Longitude: launch 099 D ~~25~~ 58 . 707 min (E) W
on bottom 099 D ~~25~~ 58 . 707 min (E) W

Navigation Type:
Loran SatNav (GPS) (PCODE) other_____

	launched	on bottom	recovered	
Time:	0314	0501		(GMT)
Water Depth:	4080			Meters
Wire:	0	4077		Meters

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
(Multi Corer - MC)
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

Piston Core Length: 20 40 60 80 100 other_____
Scope: NA
Trigger Line Length: NA
Safety Pin Size: NA or Actuating Depth:_____
Pinger (Meters above corehead): 75 m

Tension:

At surface:	700 lbs	1	410
Prior to trip:	7300	2	1155
On Bottom:	6000	3	1900
Pullout (max):	9100	4	2650
Ascending:	7600	5	3400 3400

Other Samplers:

Type & No:	Section	Length:

~~PC Section~~ Core Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	19.5			
2	18.7			
3	20.3			
4	21			
5	20.5			
6	20			
7	19.8			
8	19.5			

Remarks:
~40 m/min
NOTE: had inner piston rebuilt ~~then~~ after inspection.
0504Z – start haul in @ 5m/min.

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 45
Cruise: KN182-05RR Leg: 2
Core Name & Station # RR0705-74MC
Mo/Day/Yr 6 / 1 / 07
Observer Team: Mozer + Dorrance

Latitude: launch 02 D 07 .964 min N (S)
on bottom 02 D 07 .959 min N (S)
Longitude: launch 98 D 38 .882 min (E) W
on bottom 98 D 38 .884 min (E) W

Navigation Type: Loran SatNav (GPS) PCODE other_____

	launched	on bottom	recovered	
Time:	16:20	17:46:46		(GMT)
Water Depth:	3221	3221		Meters
Wire:	0	3230 = 3223		Meters

Piston Core Length: 20 40 60 80 100 other ✓
Scope: NA
Trigger Line Length: NA
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): 75

Tension:

At surface:	650
Prior to trip:	5,660
On Bottom:	4,770
Pullout (max):	7626
Ascending:	6200

#	payout
1	306
2	1056
3	1806
4	2556

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
~~Box Core - BC~~
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
				No Recovery!
				MC did not trip!

Other Samplers:

Type & No:	Section	Length:

Remarks:
- multicorer deployed from stern A-frame
- 25 m/min into Bottom
- Add additional 5 m after all stop
- 13 m excess wire
- ~~3000~~ min Bottom time Before recover
- 10 m/min pulled out

Revised 3/07

OSU Oceanography ✓
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle — Ship Station # 45

Cruise: KN208-05RR — Leg: 2 — Core Name & Station # RR705-75MC

Mo/Day/Yr 6 / 1 / 07 — Observer C. Moser

Latitude:	launch	02 D 07 . 950 min	N	(S)		
	on bottom	02 D 07 . 951 min	N	(S)		
Longitude:	launch	098 D 38 . 885 min	(E)	W		
	on bottom	98 D 38 . 883 min	(E)	W		

Navigation Type: Loran SatNav (GPS) (PCODE) other_____

	launched	on bottom	recovered	
Time:	1950	2122		(GMT)
Water Depth:	3221	3225		Meters
Wire:	0	3225	hit	Meters

3240 stop

Piston Core Length: 20 40 60 80 100 other_____

Scope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75m.

Tension:

At surface:	
Prior to trip:	5800
On Bottom:	4600
Pullout (max):	7626
Ascending:	6200

X	wire
1	310
2	1065
3	1815
4	2555

Other Samplers:

Type & No: Section Length:

Sampler types
- 2.5" Piston Core - PC
- 4" Piston Core - JC
- 4" Gravity (Big Bertha)-GC
- Gravity - GC
- Benthos Corer-GC
- Kasten - K
- Box Core - BC
- (Multi Corer - MC)
- Dredge - DR
- Rock Core - RC
- Shipek Grab - SG
- Other _____

~~PC Section~~ Core Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	11-11,8			
2	10-11,5			
3	11,5-19			
4	12,3			
5	12,7			
6	13,5-14,5			
7	11-11,5			
8	11,6-12,5			

Remarks:

2108Z - stopped 200mcb. // 2110Z - 25m/min wire speed out //
2116Z - 15m/min wire speed out. Pullout @ 5m/min wire hauln.

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 45
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705-76PC
Mo/Day/Yr 6 / 02 / 07
Observer TEAM: Moyer + Dorman

Latitude: launch 02 D 07 .951 min N S
on bottom 02 D 07 .952 min N S
Longitude: launch 098 D 38 .?896 min E W
on bottom 098 D 38 .897 min E W

Navigation Type: Loran SatNav ~~GPS~~ ~~PCODE~~ other _____

	launched	on bottom	recovered	
Time:	0040	0203		(GMT)
Water Depth:	3221	3226		Meters
Wire:	0	3208		Meters

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

Piston Core Length: 20 40 60 80 100 other 10
Scope: 24.5'
Trigger Line Length: ~~32~~
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): NA

Tension: PC
At surface: 5,200
Prior to trip: 10,800 lbs
On Bottom: 10,700
Pullout (max): 15380
Ascending: TC

Other Samplers:

Type & No:	Section	Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	150	0	150	
2	150.5	150	300.5	
3	117.5	300.5	418	
1	0	114		SEAFLOOR
				DOUBLE
				CORED

Remarks: 2 pigs / 7 lead weights on TC with 32ft. chain trigger line.

Revised 3/07

OSU Oceanography ✓
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V REVELLE
Ship Station # 46
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705 - 77 PC
Mo/Day/Yr 06/02/07
Observer WILSON

Latitude: launch 01 D 28 .6999 min N (S)
on bottom 01 D 28 .7037 min N (S)
Longitude: launch 098 D 09 .2838 min (E) W
on bottom 094 D 09 .2816 min (E) W
Navigation Type: Loran SatNav (GPS) PCODE other_____

	launched	on bottom	recovered	
Time:	1015Z	1144Z		(GMT)
Water Depth:	3378m			Meters
Wire:	0	3764m		Meters

DEPTH 3778m

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC (77)
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

Piston Core Length: (20) 40 60 80 100 other_____
Scope: 25'
Trigger Line Length: 32' chain
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): NONE

Tension:
At surface: 5250 lbs.
Prior to trip: ≈10,000lbs @ 3500 mwd
On Bottom: 7600 lbs
Pullout (max): 16016 lbs mushy
Ascending: _____

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	136	0	136	
2	179.5	136	265.5	

Other Samplers:

Type & No:	Section	Length:
TTC	1	0-53

Remarks: PLASTIC SOCK.
FIJI FITTING ✓OK
2 pigs 7 lead weights, deployed from stern A-frame (JRP)
BENT BRUMMEL HOOK ON TRIP CORE.
NOW USING SHACKLES.

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle — Ship Station # 24

Cruise: KNOX05RR — Leg: 2 — Core Name & Station # RR0705-78PC

Mo/Day/Yr 06 / 02 / 2007 — Observer ?

Latitude: launch 01 D 17 . 270 min N (S)
on bottom 01 D 17 . 278 min N (S)

Longitude: launch 97 D 38 . 990 min (E) W
on bottom 97 D 38 . 986 min (E) W

Navigation Type: Loran SatNav (GPS) PCODE other_____

	launched	on bottom	recovered	
Time:	1730	1955	2300	(GMT)
Water Depth:	5455	5455	5455	Meters
Wire:	Ø	5427	Ø	Meters

Sampler types
2.5" Piston Core - PC
~~4" Piston Core - JC~~
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

Piston Core Length: (20) 40 60 80 100 other_____
Scope: 29'
Trigger Line Length: 32'
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): NA

Tension:
At surface: NA
Prior to trip: 14,500
On Bottom: 9,580
Pullout (max): 18,645
Ascending: _____

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
PC 1	20	0	20	
2		20	170	
3		170	320	
4		320	444	

Other Samplers:

Type & No:	Section	Length:
RTC	1	0 - 151.5

Remarks:
- winch tripped (HBU shutdown) before reaching the bottom
Coe barrel penetrated to weight stand bottom.

Revised 3/07

OSU Oceanography ✓
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle — Ship Station # 47

Cruise: KN205RR Leg: 2 — Core Name & Station # RR0205 - 79PC

Mo/Day/Yr 6 / 3 / 07 — Observer PATTON, beg mms

Latitude: launch 00 D 59 .845 min N (S)
on bottom 00 D 59 .83 min N (S)

Longitude: launch 097 D 47 .613 min (E) W
on bottom 097 D 47 .65 min (E) W

Navigation Type: Loran SatNav (GPS) PCODE other_____

	launched	on bottom	recovered	
Time:	0342	0526	0717	(GMT)
Water Depth:	3833	3833		Meters
Wire:	0	3816		Meters

Sampler types
~~2.5" Piston Core - PC~~
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

Piston Core Length: 20 40 60 80 100 other 5

Scope: 25.5

Trigger Line Length: 32'

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): NA

Tension:

At surface: ~5000
Prior to trip: ~12000
On Bottom: 8500
Pullout (max): 15800
Ascending: _____

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
PC sec 1	146	0	146	
PC sec 2	150.5	146	296.5	
PC sec 3	123	296.5	419.5	
TC sec 1	56	0	56	

Remarks:

2 pigs & 7 lead weights; no bow thrusters
Piston core w/ plastic sock deployed from stern A-frame
0510 Winch tripped w/ 3451 m wire out
0516 " " w/ 3590 " "
-> Decided to take core into bottom at 30 m/min
At trip spike both down and up in tension

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 47
Cruise: KNOW05RR Leg: 2
Core Name & Station # RR0705 – 80 MC
Mo/Day/Yr 6/3/07
Observer PATTON / Zoralda / Bob Wilson

Latitude:	launch	00	D 50	.844	min	N	S
	on bottom	00	D 50	.84	min	N	S
Longitude:	launch	097	D 47	.614	min	E	W
	on bottom	097	D 47	.61	min	E	W

Navigation Type: Loran SatNav GPS PCODE other _____

	launched	on bottom	recovered	
Time:	0750	1034	1220	(GMT)
Water Depth:	3835	3835		Meters
Wire:	0	3849	0	Meters

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

Piston Core Length: 20 40 60 80 100 other _____
Scope: NA
Trigger Line Length: NA
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): 75

Tension:

At surface:	500
Prior to trip:	6500
On Bottom:	5800
Pullout (max):	8418
Ascending:	

x	payout
1	~~910~~
2	910
3	1660
4	2405
5	3160

Other Samplers:

Type & No:	Section	Length:

~~PC Section~~ Tube Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	—			
2	78-88			
3	66,5			
4	89,5			
5	68-87			
6	86-95			
7	79-9			
8	—			

Remarks:
Multicorer deployed from stern A-frame w/ 18 lead weights
NO Bow thrusters
5 TUBES W 6 INCH SAMPLES.
One Tube #8 did NOT trip!

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 48
Cruise: KN194-05 RR Leg: 2
Core Name & Station # RR0705-81GC
Mo/Day/Yr 6 / 3 / 07
Observer MICK E. MOUSE (?)

Latitude: launch 00 D 39 .775 min N (S)
on bottom 00 D 39 .7724 min N (S)
Longitude: launch 097 D 44 .539 min (E) W
on bottom 097 D 44 .5396 min (E) W

Navigation Type:
Loran SatNav (GPS) (PCODE) other ____

	launched	on bottom	recovered	
Time:	1520	1559Z		(GMT)
Water Depth:		3438m		Meters
Wire:	0	3497m		Meters

Piston Core Length: 20 40 60 80 100 other 10
Scope: NA
Trigger Line Length: NA
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): 75

Tension:
At surface: ____
Prior to trip: ____
On Bottom: 9051bs Rcvd
Pullout (max): ~~12371bs~~ 13321bs
Ascending: ____ 14011bs

Other Samplers:
Type & No: Section Length:

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
(Benthos Corer-GC)
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other ____

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
sec. 1	31.5	0	31.5	

Remarks:
Benthos GC deployed with plastic sock from starboard hydro winch.
PINGER S/N 1305

Revised 3/07

OSU Oceanography ✓
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle — Ship Station # 49

Cruise: KNOX05RR — Leg: 2 — Core Name & Station # RR0705-82 MC

Mo/Day/Yr 6 / 03 / 07 — Observer ROMSOS

Latitude:	launch	00	D 07	.7970 min	N	S
	on bottom	00	D 07	.792 min	N	S
Longitude:	launch	97	D 21	.6381 min	E	W
	on bottom	97	D 21	.677 min	E	W

Navigation Type: Loran SatNav GPS PCODE other_____

	launched	on bottom	recovered	
Time:	22:48	00:25		(GMT)
Water Depth:	3038	3036		Meters
Wire:	0	3030		Meters

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

Piston Core Length: 20 40 60 80 100 other_____

Scope: —

Trigger Line Length: —

Safety Pin Size: — or Actuating Depth: —

Pinger (Meters above corehead): 75

Tension:

At surface:	5501bs.
Prior to trip:	5500
On Bottom:	4500
Pullout (max):	6500
Ascending:	5800

X	wire
1	120
2	873
3	1632
4	2350

Other Samplers:

Type & No:	Section	Length:

~~PC~~ Core Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	23,8			
2	23,4			
3	21,5			
4	21,8			
5	21			
6	19,5			
7	20,8			
8	empty			

Remarks:

Re-checked shovels @ surface to make sure MC still rigged and not pre-tripped.
Held for 3 minutes @ 2800m w/o, into bottom @ 15m/min.
Payed out extra 20m after MC hit bottom. W.i.w. out = 3050m.
0028Z - up @ 5m/min.

Revised 3/07

OSU Oceanography ✓
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 49
Cruise: KNOX05RR Leg: 2
Core Name & Station # 0705 - 83PC
Mo/Day/Yr 6 / 4 / 07
Observer PATTON

Latitude:	launch	00	D 07	.803 min	N	S
	on bottom	00	D 07	.804 min	N	S
Longitude:	launch	97	D 21	.650 min	E	W
	on bottom	97	D 21	.648 min	E	W

Navigation Type: Loran SatNav (GPS) PCODE other

	launched	on bottom	recovered	
Time:	0336	0451	0620	(GMT)
Water Depth:	3034		3032	Meters
Wire:	0	3016	0	Meters

Sampler types
2.5" Piston Core - PC
(4" Piston Core - JC)
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other

Piston Core Length: (20) 40 60 80 100 other
Scope: 24
Trigger Line Length: 32
Safety Pin Size: — or Actuating Depth: —
Pinger (Meters above corehead): —

Tension:
At surface: 5300
Prior to trip: 10,500
On Bottom: 5,000
Pullout (max): 17,247
Ascending: 11,000

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
PC sec 1	56	0	56	
sec 2	150.5	56	206.5	
sec 3	151	206.5	357.5	
sec 4	129.5	357.5	487	
TC sec 1	78.5	0	78.5	
sec 2	130	78.5	208.5	

Other Samplers:

Type & No:	Section	Length:

Remarks:

Piston core deployed w/ plastic sock, 2 pigs, 7 lead weights from sternt-frame.
• 40 m/min d/A. sticky pullout with sudden release.
Mud up and over weight-stand at recovery
→ lots of overpenetration

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

SAP/CG

Vessel: R/V Revelle
Ship Station # ~~19~~ ~~50~~ 19
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705-84PC
Mo/Day/Yr 6 / 4 / 07
Observer PATTON

Latitude:	launch	00	D 00	.103	min	N	S
	on bottom	00	D 00	.101	min	N	S
Longitude:	launch	96	D 59	.559	min	E	W
	on bottom	96	D 59	.564	min	E	W

Navigation Type: Loran SatNav GPS PCODE other_____

	launched	on bottom	recovered	
Time:	0954	12:29		(GMT)
Water Depth:	5305	5305		Meters
Wire:	15.0	5297.4		Meters

Sampler types
2.5" Piston Core - PC
4" Piston Core - PC
~~4" Gravity (Big Bertha)-GC~~
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

Piston Core Length: (20) 40 60 80 100 other_____
Scope: 28'6"
Trigger Line Length: 32' chain
Safety Pin Size: NA or Actuating Depth: NA
Pinger (Meters above corehead): NA

Tension:
At surface: 5250
Prior to trip: 15000 lbs @ 5000 m
On Bottom: 11000
Pullout (max): 20454
Ascending:

Other Samplers:
Type & No: Section Length:
84 TC

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
PC 1	70.0	0	70.0	
PC 2	150.5	70.0	220.5	
PC 3	123.7	220.5	344.2	
TC 1	110.8	0	110.8	

Remarks:
PC deployed from stern A-frame with plastic sock, 2 pigs, and 7 leadwts.
METER WHEEL 15m WHEN CORE @ SURFACE.
∴ ADD 15m

WINCH TRIPS OFF 4074 mwd WINCH @ 25 m/min after trip.

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

JAP/CG

Vessel: R/V Revelle

Ship Station # ~~5~~ 50

Cruise: KNOX05RR Leg: 2

Core Name & Station # RR0705 -85PC

Mo/Day/Yr 6 / 4 / 07

Observer Romsos

Latitude:	launch	01	D 01 .729	min	N	S
	on bottom	01	D 01 .729	min	N	S
Longitude:	launch	096	D 47 .983	min	E	W
	on bottom	096	D 47 .985	min	E	W

Navigation Type: Loran SatNav GPS PCODE other_____

	launched	on bottom	recovered	
Time:	23:25	00:49	02:35	(GMT)
Water Depth:	3337			Meters
Wire:	0	3316		Meters

Sampler types
- 2.5" Piston Core - PC
- 4" Piston Core - JC
- 4" Gravity (Big Bertha)-GC
- Gravity - GC
- Benthos Corer-GC
- Kasten - K
- Box Core - BC
- Multi Corer - MC
- Dredge - DR
- Rock Core - RC
- Shipek Grab - SG
- Other _____

Piston Core Length: 20 40 60 80 100 other 20

Scope: 24.5'

Trigger Line Length: 32'

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): NA

Tension:

At surface: ~5100

Prior to trip: 10,500

On Bottom: 6200

Pullout (max): 16,168

Ascending: 12,000

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	58.5	0	58.5	PC
2	149.5	58.5	208	
3	150.5	208	358.5	
4	128	358.5	486.5	
1	27.5	0	27.5	TC
2	150.5	27.5	178	

Other Samplers:

Type & No:	Section	Length:
85 TC		

Remarks:

PISTON CORE DEPLOYED W/ PLASTIC SOCK FROM STBD A-frame. 2 pigs / 7 lead weights on 32 ft, chain trigger line on TC. 40m/min into bottom.

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

JAP/CG

Vessel: R/V Revelle

Ship Station # ~~5K~~ 50

Cruise: KNOX05RR Leg: 2

Core Name & Station # RR0705 - 86MC

Mo/Day/Yr 6 / 5 / 07

Observer ROMSOS

Latitude:	launch	01	D 01 .730	min	N S
	on bottom	01	D 01 .7772	min	N S
Longitude:	launch	96	D 47 .985	min	E W
	on bottom	96	D 47 .9839	min	E W

Navigation Type:
Loran SatNav GPS PCODE other_____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
Kasten - K
Gravity - GC
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR
Other _____

	launched	on bottom	recovered	
Time:	03:20	04:55:20		(GMT)
Water Depth:	3337	3337		Meters
Wire:	0	3332		Meters

Piston Core Length: 20 40 60 80 100 other X

Scope: X

Trigger Line Length: X

Safety Pin Size: X or Actuating Depth: X

Pinger (Meters above corehead): 75

Tension:

Prior to trip:	5750
On Bottom:	4900
Pullout (max):	7550
Ascending:	6300

X	payout
1	410
2	1160
3	1945
4	2650

Other Samplers:

Type & No: Section Length:

CORE PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	11,8-12			
2	11-12,8			
3	—	CLOSED, ALMOST EMPTY		
4	12,8-14			
5	13-14			
6	15-15,7			
7	13,5-14,6			
8	OPEN →	EMPTY		

Remarks: Multi corer deployed from stern A-frame with full ration of lead bricks (18 on vertical stack)
actuator pin ring maintained b-4 deployment
- 5 minutes bottom time, 17m wire payout after touchdown.

Revised 4/00

OSU Oceanography

MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle

Ship Station # 17

Cruise: KNOX05RR Leg: 2

Core Name & Station # RR0705-87PC

Mo/Day/Yr 6 / 5 / 07

Observer PATTON

Latitude:	launch	00	D 59 .726	min	N	S
	on bottom	00	D 59 .7281	min	N	S
Longitude:	launch	96	D 22 .319	min	E	W
	on bottom	96	D 22 .3219	min	E	W

Navigation Type: Loran SatNav GPS PCODE other_____

Sampler types
- 2.5" Piston Core - PC
- 4" Piston Core - JC
- Kasten - K
- Gravity - GC
- Box Core - BC
- Multi Corer - MC
- Rock Core - RC
- Shipek Grab - SG
- Dredge - DR

Other _____

	launched	on bottom	recovered	
Time:	0948	1221Z		(GMT)
Water Depth:	5212	5211m		Meters
Wire:	15	5211m		Meters

Piston Core Length: 20 40 60 80 100 other____

Scope: 28'

Trigger Line Length: 32' chain

Safety Pin Size: — or Actuating Depth: —

Pinger (Meters above corehead): —

Tension: surface 5200

Prior to trip: _____

On Bottom: 8500lbs

Pullout (max): 19078lbs @ 5197m

Ascending: _____

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
PC ①	68.9	0	68.9	
②	151	68.9	219.9	
③	152.6	219.9	372.5	
④	129.6	372.5	502.1	
TC ①	76.9	0	76.9	

Other Samplers:

Type & No: Section Length:

87TC

Remarks: Piston core deployed from stern A-frame with plastic sock, 2 pigs, 7 lead weights.
METER WHEEL = 15 w/ CORE @ SURFACE.
After winch trip, 30 m/min into bottom!

37 winch wire out

Revised 4/00

OSU Oceanography ✓

MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle — Ship Station # 51

Cruise: KNOX05RR — Leg: 2 — Core Name & Station # RR0705-88PC

Mo/Day/Yr 6 / 5 / 07 — Observer (:)

Latitude:	launch	01	D 18 . 688	min	N	S
	on bottom	01	D 18 . 696	min	N	S
Longitude:	launch	096	D 15 . 808	min	E	W
	on bottom	096	D 15 . 814	min	E	W

Navigation Type: Loran SatNav GPS PCODE other_____

Sampler types
- 2.5" Piston Core - PC
- 4" Piston Core - JC
- Kasten - K
- Gravity - GC
- Box Core - BC
- Multi Corer - MC
- Rock Core - RC
- Shipek Grab - SG
- Dredge - DR

Other _____

	launched	on bottom	recovered	
Time:	18:25	20:49		(GMT)
Water Depth:	5190	5197		Meters
Wire:	0	5169		Meters

Piston Core Length: 20 40 60 80 100 other____

Scope: 28'

Trigger Line Length: 32' chain

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): NA

Tension: Surface 5200
- Prior to trip: 14000
- On Bottom: 9500
- Pullout (max): 20,179
- Ascending: 15,000

Other Samplers:

Type & No: Section Length:

88TC

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
PC (1)	411.5	0	411.5	
(2)	150.5	411.5	192	
(3)	150.5	192	342.5	
(4)	128.5	342.5	471	
TC (1)	90.5	0	90.5	

Remarks: raining cats and dogs, deployed piston core w/plastic sock from stern A-frame. 2 pigs, 7 lead weights, chain trigger line 32ft. At 3800m w/o slowed to 30m/min into bottom to help prevent winch trip!

Revised 4/00

OSU Oceanography ✓

MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle

Ship Station # 52

Cruise: KNOR05RR Leg: 2

Core Name & Station # RR0705-8aPC

Mo/Day/Yr 06 / 06 / 07

Observer PATTON / Moser

Latitude:	launch	01	D 31 . 223	min	N	S
	on bottom	01	D 31 . 199	min	N	S
Longitude:	launch	96	D 22 . 787	min	E	W
	on bottom	96	D 22 . 757	min	E	W

Navigation Type: Loran SatNav GPS PCODE other_____

Sampler types
- 2.5" Piston Core - PC
- 4" Piston Core - JC
- Kasten - K
- Gravity - GC
- Box Core - BC
- Multi Corer - MC
- Rock Core - RC
- Shipek Grab - SG
- Dredge - DR

Other _____

	launched	on bottom	recovered	
Time:	0230	0351	0530	(GMT)
Water Depth:	3256	3255		Meters
Wire:	0	3241		Meters

Piston Core Length: 20 40 60 80 100 other____

Scope: 24'6"

Trigger Line Length: 32' chain

Safety Pin Size: — or Actuating Depth: —

Pinger (Meters above corehead): —

Tension: Surface 5200

Prior to trip: 10,400 lbs

On Bottom: 5,406 lbs

Pullout (max): 18,935 lbs

Ascending: 11,800 lbs

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
PC (1)	15.5	0	15.5	
(2)	151	15.5	166.5	
(3)	151.5	166.5	318	
(4)	120	318	438	
TC (1)	147.5	0	147.5	

Remarks: PC deployed from stern A-frame w/ plastic sock, 2 pigs & 7 lead weights on TC with 32 ft. chain trigger line. In to bottom @ 40 m/min!

Revised 4/00

OSU Oceanography

MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle

Ship Station # 52

Cruise: KNOX05RR Leg: 2

Core Name & Station # RR0705-90MC

Mo/Day/Yr 6 / 6 / 07

Observer PATTON

Latitude:	launch	01	D 31 . ____	min	N	S
	on bottom	01	D 31 . 2051	min	N	S
Longitude:	launch	96	D 22 . ____	min	E	W
	on bottom	96	D 22 . 7632	min	E	W

Navigation Type: Loran SatNav GPS PCODE other_____

Sampler types
- 2.5" Piston Core - PC
- 4" Piston Core - JC
- Kasten - K
- Gravity - GC
- Box Core - BC
- Multi Corer - MC
- Rock Core - RC
- Shipek Grab - SG
- Dredge - DR

Other _____

	launched	on bottom	recovered	
Time:	07:25	0857		(GMT)
Water Depth:	3255			Meters
Wire:	0	3277		Meters

Piston Core Length: 20 40 60 80 100 other Ø

Scope: NA

Trigger Line Length: NA

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): 75

Tension: surface 675

Prior to trip:	
On Bottom:	
Pullout (max):	
Ascending:	

x	payout
1	338
2	1080
3	1830
4	2580

Other Samplers:

Type & No: Section Length:

PC ~~Section~~ Tube Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	12-12,5			
2	11,5			
3	11,5			
4	9,7-10,5			
5	10,5-11,5			
6	12,5-17			
7	19,5-20			
8	9,7-12			

Remarks: multicorer deployed from stern A-frame w/ 18 horiz and 8 vert. lead weights, raining

RE-Fiji

Revised 4/00

OSU Oceanography ✓

MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle

Ship Station # 53

Cruise: KNOX05RR Leg: 2

Core Name & Station # RR0705-91MC

Mo/Day/Yr 6 / 6 / 2007

Observer C. Moser

Latitude:	launch	01	D 53 . 416	min	N	S
	on bottom	01	D 53 . 415	min	N	S
Longitude:	launch	95	D 58 . 360	min	E	W
	on bottom	95	D 58 . 368	min	E	W

Navigation Type:
Loran SatNav GPS PCODE other_____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
Kasten - K
Gravity - GC
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR
Other _____

	launched	on bottom	recovered	
Time:	1445	16:44		(GMT)
Water Depth:	3836	3836		Meters
Wire:	0	3838 - on bottom 3857 - extra payout		Meters

Piston Core Length: 20 40 60 80 100 other____

Scope:_____

Trigger Line Length:_____

Safety Pin Size:_____ or Actuating Depth:_____

Pinger (Meters above corehead): 75

Tension:

Prior to trip:	6500
On Bottom:	5500
Pullout (max):	8251
Ascending:	

X	Wire
1	170
2	920
3	1662
4	2407
5	3157

Other Samplers:

Type & No: Section Length:

_____

_____

_____

_____

~~PC Section~~ Tube Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	12,8-13,5			
2	13,8-14,5			
3	13,5-14			
4	14,2-14,6			
5	15-15,2			
6	15,7-16			
7	14,5			
8	13,9-14,5			

Remarks:
- STOPPED WIRE @ 3600 to allow MC to settle.
- Tension dropped @ 3838
- Wire out to 3857

Revised 4/00

OSU Oceanography ✓ ~~26~~

MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle

Ship Station # ~~RR0507 92PC~~ 53

Cruise: KNOX05RR Leg: 2

Core Name & Station # RR0507-92PC

Mo/Day/Yr 6 / 6 / 2007

Observer Romsos

Latitude:	launch	01	D 53 . 4157	min	(N)	S
	on bottom	01	D 53 . 4164	min	(N)	S
Longitude:	launch	095	D 58 . 3602	min	(E)	W
	on bottom	095	D 58 . 3579	min	(E)	W

Navigation Type:
Loran SatNav GPS (PCODE) other_____

Sampler types
2.5" Piston Core - PC
(4" Piston Core - JC)
Kasten - K
Gravity - GC
Box Core - BC
Multi Corer - MC
Rock Core - RC
Shipek Grab - SG
Dredge - DR
Other _____

	launched	on bottom	recovered	
Time:	20:00	21:43	23:45	(GMT)
Water Depth:	3836	3836		Meters
Wire:	0	3817		Meters

Piston Core Length: (20) 40 60 80 100 other____

Scope: 25.5"

Trigger Line Length: 32'

Safety Pin Size: NA or Actuating Depth: NA

Pinger (Meters above corehead): NA

Tension: @surface = 45001b
Prior to trip: 12,0001b
On Bottom: 7,7501b
Pullout (max): 17,0031b
Ascending: 12,6001b

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
PC (1)	55.5	0	55.5	
(2)	151	55.5	206.5	
(3)	150	206.5	356.5	
(4)	120	356.5	476.5	
TC (1)	114	0	114	

Remarks:

- winch was slowed to 30mpm @ 3750 m wire out
- winch tripped - at when the core was on the bottom. 31 minute duration
- 30 mpm into the bottom.

Revised 4/00

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 54
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705-93PC
Mo/Day/Yr 6 / 7 / 07
Observer PATTON / WILSON / MOSER

Latitude:	launch	01	D 43 . 252	min	N	S
	on bottom	01	D 43 . ____	min	N	S
Longitude:	launch	095	D 48 . 741	min	E	W
	on bottom	095	D 48 . ____	min	E	W

Navigation Type: Loran SatNav GPS PCODE other____

	launched	on bottom	recovered	
Time:	0235	0508	0734	(GMT)
Water Depth:	5040		5091	Meters
Wire:	0	5018	0	Meters

Sampler types
2.5" ~~Piston Core - PC~~
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other ____

Piston Core Length: 20 40 60 80 100 other____
Scope: 28'
Trigger Line Length: 32' chain
Safety Pin Size: — or Actuating Depth: —
Pinger (Meters above corehead): —

Tension:
At surface: 5200
Prior to trip: 13,500
On Bottom: 8,200
Pullout (max): 19,766
Ascending: 14,200

Other Samplers:
Type & No: Section Length:
93 TC

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	65.5	0	65.5	PC
2	150.5	65.5	216	
3	151	216	367	
4	124.5	367	491.5	
1	120.2	0	120.2	TC

Remarks:
PC deployed from stern A-frame with plastic sock, 2 pigs, 7 lead weights on TC. Winch tripped @ 3151 m. wire out. Re-started winch @ 25m/min wire speed. At 4,050 m. wire out increased to 30m/min wire speed.

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 55
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705-94PC
Mo/Day/Yr 6 / 7 / 07
Observer PATTON/Wilson

Latitude:	launch	02 D 07 . 431	min	N	S
	on bottom	02 D 07 . 45	min	N	S
Longitude:	launch	095 D 03 . 070	min	E	W
	on bottom	095 D 03 . 05	min	E	W

Navigation Type: Loran SatNav GPS PCODE other_____

	launched	on bottom	recovered	
Time:	13:34	15:47		(GMT)
Water Depth:	4918	4918		Meters
Wire:	0	4902.4		Meters

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

Piston Core Length: (20) 40 60 80 100 other_____
Scope: 27'6"
Trigger Line Length: 32' chain
Safety Pin Size: ~ or Actuating Depth: ~
Pinger (Meters above corehead): —

Tension:
At surface: ≈5100
Prior to trip: ≈13500
On Bottom: ≈4500
Pullout (max): 16834
Ascending: _____

Other Samplers:

Type & No:	Section	Length:
94 TC		
No Recovery!		

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	108	0	108	PC
2	150.5	108	258.5	
3	122.5	258.5	381.0	

Remarks:
Piston core deployed from stern A-frame with plastic sock, 2 pigs in weight stand, and 7 lead weights on Trigger core.
Winch tripped as core hit bottom 15:45
15:49 Winch beginning up slow
- Small block used for trigger- core jammed while removing the trigger core valve. - took about 1hr to fix.

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle

Ship Station # 56

Cruise: ~~TNO05RR~~ Leg: 2

Core Name & Station # RR0705 95PC

Mo/Day/Yr 6 / 08 / 07

Observer PATTON/WILSON/MOSER/ROMSOS

Latitude:	launch	02	D 52.465	min	N	S
	on bottom	02	D 52.470	min	N	S
Longitude:	launch	94	D 12.363	min	E	W
	on bottom	94	D 12.362	min	E	W

Navigation Type:
Loran SatNav GPS PCODE other_____

Sampler types
~~2.5" Piston Core - PC~~
4" Piston Core - JC
~~4" Gravity (Big Bertha)-GC~~
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

	launched	on bottom	recovered	
Time:	04:37	06:02		(GMT)
Water Depth:	3418			Meters
Wire:	0	3409		Meters

Piston Core Length: 20 40 60 80 100 other_____

Scope: 24.5'

Trigger Line Length: 32' chain

Safety Pin Size: ___ or Actuating Depth: —

Pinger (Meters above corehead): —

Tension:

At surface:	52501b.
Prior to trip:	11,000
On Bottom:	5500
Pullout (max):	13,759 lbs. ?!
Ascending:	11,500

Other Samplers:

Type & No: Section Length:

95 TC No Recovery on TC due to sandy impenetrable nature of sub bottom sediment

Remarks:

Piston core deployed from stern A-frame w/ plastic sock, 2 pigs, 9 lead weights on TC with 32ft. chain trigger line.

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	101	0	101	PC
2	121.5	101	222.5	

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle

Ship Station # 57

Cruise: KNOX05RR Leg: 2

Core Name & Station # RR0705-96PC

Mo/Day/Yr 6 / 8 / 07

Observer PATTON/WILSON

moved ship by core deployment

Latitude: launch 02 D 55 55.996 min N S

on bottom 02 D 55 54.014 min N S

Longitude: launch 94 D 08 08.323 min E W

on bottom 94 D 08 .335 min E W

Navigation Type: Loran SatNav GPS PCODE other_____

	launched	on bottom	recovered	
Time:	11 36	13:02	14 45	(GMT)
Water Depth:	3410	3411		Meters
Wire:	0	3394.2		Meters

Piston Core Length: 20 40 60 80 100 other_____

Scope: 3.25 (rev?)

Trigger Line Length: 32' chain

Safety Pin Size: — or Actuating Depth: —

Pinger (Meters above corehead): —

Tension:

At surface: 5300

Prior to trip: ~11000

On Bottom: ~5000

Pullout (max): 16705

Ascending: _____

Other Samplers:

Type & No: Section Length:

96TC

Sampler types

2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	42.6	0	42.6	PC
2	137.0	42.6	179.6	
3	146.7	179.6	324.3	
4	115.7	324.3	440.0	
1	132.7	0	132.7	TC

Remarks:

Piston core deployed from stern A-frame with plastic sock, 2 pigs in weight stand, and 9 lead weights on Trigger core.

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle

Ship Station # 57

Cruise: KNOX05RR Leg: 2

Core Name & Station # RR0705-97MC

Mo/Day/Yr 6 / 08 / 07

Observer PATTON / WILSON / MOSER LANGNER

Latitude: launch 02 D 56 . 018 min N S

on bottom 02 D 56 . 016 min N S

Longitude: launch 94 D 08 . 339 min E W

on bottom 94 D 08 . 337 min E W

Navigation Type:
Loran SatNav GPS PCODE other_____

	launched	on bottom	recovered	
Time:	16:30	18.10		(GMT)
Water Depth:	3412	3412		Meters
Wire:	0	3420		Meters

Piston Core Length: 20 40 60 80 100 other_____

Scope: —

Trigger Line Length: —

Safety Pin Size: — or Actuating Depth: —

Pinger (Meters above corehead): 75

Tension:

		x	payout
At surface:	800		
Prior to trip:	6300	1	493
On Bottom:	5000	2	1240
Pullout (max):	7562	3	1988
Ascending:	6500	4	2738

Other Samplers:

Type & No: Section Length:

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
~~Box Core - BC~~
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	63.8			
2	69			
3	69			
4	—			EMPTY; LIDS CLOSED
5	69			
6	69			
7	69			
8	69			

Remarks:

multicorer deployed from stern A-frame w/ 18 lead bricks in horizontal position and 8 bricks in vertical position. On bottom @ 3420m w/o. Payed out to 3438m w/o.

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 58
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705-98 PC
Mo/Day/Yr 6 / 8 / 07
Observer J. Dorance, Snr. moseff K-Fed

Latitude: launch Ø2 D 41 .523 min N S
on bottom Ø2 D 41 .522 min N S
Longitude: launch Ø94 D 06 .005 min E W
on bottom Ø94 D 06 .003 min E W

Navigation Type: Loran SatNav GPS PCODE other

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other

	launched	on bottom	recovered	
Time:	23:56	0206		(GMT)
Water Depth:	4716	4716		Meters
Wire:	0	4694		Meters

Piston Core Length: 20 40 60 80 100 other
Scope: 26'6"
Trigger Line Length: 32' chain
Safety Pin Size: = or Actuating Depth:
Pinger (Meters above corehead):

Tension:
At surface: 5300
Prior to trip: 13,600 lbs
On Bottom: 9,600 lbs
Pullout (max): 16,534 lbs
Ascending: 14,200 lbs

Other Samplers:

Type & No:	Section	Length:
98TC		

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	52.5	0	52.5	PC
2	149.5	52.5	202	
3	151	202	353	
4	124	353	477	
1	121.5	0	121.5	TC

Remarks:

Piston core deployed from stern A-frame with plastic sock, 2 pigs, and 9 lead weights on TC. 40m/min. - slowed to 30 m/min @ 3500m w/o.
- winch shut down @ 4516 m wire out For 45 sec. reduce winch speed to 25m/min into Bottom.

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 58
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705-99MC
Mo/Day/Yr 6 / 9 / 07
Observer PATTON / DAWBER

Latitude:	launch	02	D 41	.52 min	N	S
	on bottom	02	D 41	.524 min	N	S
Longitude:	launch	94	D 06	.003 min	E	W
	on bottom	94	D 06	.003 min	E	W

Navigation Type:
Loran SatNav GPS PCODE other

	launched	on bottom	recovered	
Time:	05:42	0753	10:10	(GMT)
Water Depth:	4715	4715	4716	Meters
Wire:	0	4735	6	Meters

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other

Piston Core Length: 20 40 60 80 100 other —
Scope: —
Trigger Line Length: —
Safety Pin Size: — or Actuating Depth: —
Pinger (Meters above corehead): 75

Tension:

At surface:	600
Prior to trip:	8200 lb
On Bottom:	7,100 lb
Pullout (max):	9,591
Ascending:	9,000 lb

X	payout
1	275
2	1027
3	1780
4	2525
5	3272
6	4027
7	

Other Samplers:

Type & No:	Section	Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	22			
2	24			
3	23			
4	24.7			
5	25.4			
6	25.3			
7	24			
8	23.5			

Remarks:
multicorer deployed from stern A-frame w/ 18 horizontal and 6 vertical lead weights, and with snow shoes on.
-winch operater missed stop @ 4500 and had a faster than usual stop @ 4521
-15 m/min in Bottom, 7 min in Bottom
additional, 15 m out of wire

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 11
Cruise: KNOX05RR Leg: 2
Core Name & Station # PR0705-100MC
Mo/Day/Yr 6 / 9 / 07
Observer PATTON/LANGNER

Latitude:	launch	03	D 16 . 572	min	N	S
	on bottom	03	D 16 . 57	min	N	S
Longitude:	launch	94	D 01 . 187	min	E	W
	on bottom	94	D 01 . 19	min	E	W

Navigation Type: Loran SatNav GPS PCODE other_____

	launched	on bottom	recovered	
Time:	13:50	14:47		(GMT)
Water Depth:	1819	1819		Meters
Wire:	0	1823 bottom 1839 stopped		Meters

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

Piston Core Length: 20 40 60 80 100 other ~
Scope: ~
Trigger Line Length: ~
Safety Pin Size: ~ or Actuating Depth: ~
Pinger (Meters above corehead): 75

Tension:

At surface:	1050
Prior to trip:	~3500
On Bottom:	~2500
Pullout (max):	~5536
Ascending:	

X	payout
1	398
2	1149

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	empty			
2	8-9			
3	<0,5			
4	0,5			
5	<0,5			
6	4-6			
7	<0,5			
8	6-7,3			

Remarks:

- Multi corer deployed from stern A-frame with snow shoes, 18 lead horiz. bricks, and 6 vertical lead bricks.
→ All stop @ 1600 m for ~3 min
→ Start to bottom (1819 m) @ 30 m/min
→ Slowed winch to 15 m/min @ 1780 m
→ On bottom at 1823 m wire out, payed out 16 m of wire to 1839 m wire out
→ Start up at 14:51 @ 5 m/min

Revised 3/07

16057 ✓

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V REVELLE
Ship Station # 11
Cruise: KNOX05RR Leg: 2
Core Name & Station # 101 BC GC
Mo/Day/Yr 06 / 09 / 07
Observer ? JDP

Latitude: launch 03 D 16 .5695 min (N) S
on bottom 03 D 16 .5663 min (N) S
Longitude: launch 094 D 01 .1907 min (E) W
on bottom 094 D 01 .1902 min (E) W
Navigation Type: Loran SatNav GPS PCODE other_____

	launched	on bottom	recovered	
Time:	16057	1625		(GMT)
Water Depth:	1823m			Meters
Wire:		1857m		Meters

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
~~Kasten - K~~
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

Piston Core Length: 20 40 60 80 100 other_____
Scope:_____
Trigger Line Length:_____
Safety Pin Size:_____ or Actuating Depth:_____
Pinger (Meters above corehead): 75m

Tension:
At surface: _____
Prior to trip: 6011bs ≈ 100m above mud
On Bottom: 352 lbs
Pullout (max): 1017 lbs
Ascending: _____

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	52.5	0	52.5	

Other Samplers:
Type & No: Section Length:

Remarks:
BENTHOS CORE
WINCH STOPPED @ ≈ 1600 mwd due to noise.
Level wind visually OK. ENG ADVISED.

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle — Ship Station # 59

Cruise: KNOX0SRA — Leg: 2 — Core Name & Station # RR0705-102MC

Mo/Day/Yr 6 / 9 / 07 — Observer PATTON | JimmyD

Latitude:	launch	03 D 36 . 299	min	N	S
	on bottom	03 D 36 . 303	min	N	S
Longitude:	launch	93 D 37 . 850	min	E	W
	on bottom	93 D 37 . 894	min	E	W

Navigation Type: Loran SatNav (GPS) PCODE other_____

	launched	on bottom	recovered	
Time:	21:21	22:54		(GMT)
Water Depth:	3073			Meters
Wire:	0	3078		Meters

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
(Multi Corer - MC)
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

Piston Core Length: 20 40 60 80 100 other —

Scope: —

Trigger Line Length: —

Safety Pin Size: — or Actuating Depth: —

Pinger (Meters above corehead): 75

Tension:

At surface:	450
Prior to trip:	5600
On Bottom:	4500
Pullout (max):	6822
Ascending:	6,000

2 910
3 1673
4 2395

Other Samplers:

Type & No: Section Length:

Remarks:

multi corer deployed from stern A-frame with 18 horiz. lead weights, 6 vertical lead weights, and snow shoes.
stopped wire @ 3096m. w/o. 2256z up @ 5m/min

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	21			
2	21			
3	20-20,7			
4	21,5-21,8			
5	19,8-20			
6	24			
7	23,5-24			
8	23,5			

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle

Ship Station # 60

Cruise: KNOX05RR Leg: 2

Core Name & Station # RR0705-103PC

Mo/Day/Yr 6 / 16 / 2007

Observer Davies / Moser

Latitude: launch 03 D 36 . 3069 min (N) S

on bottom 03 D 36 . 303 min (N) S

Longitude: launch 093 D 37 . 9063 min (E) W

on bottom 093 D 37 . 893 min (E) W

Navigation Type:
Loran SatNav GPS PCODE other_____

	launched	on bottom	recovered	
Time:	02:00	03:18		(GMT)
Water Depth:	3073	3075		Meters
Wire:	0	3061		Meters

Sampler types
2.5" Piston Core - PC
(4" Piston Core - JC)
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

Piston Core Length: (20) 40 60 80 100 other_____

Scope: 2.3

Trigger Line Length: 32

Safety Pin Size: ____ or Actuating Depth: ____

Pinger (Meters above corehead): ____

Tension:

At surface:	5500
Prior to trip:	11,500
On Bottom:	3200
Pullout (max):	17,252
Ascending:	12,000

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	44.0	0	44	PC
2	150.5	44	194.5	
3	150.5	194.5	345	
4	129	345	474	
1	100	0	100	TC
2	63	100	163	

Remarks:

Piston core deployed from stern (A-frame) with plastic sock, 2 pigs, 8 9 lead weights on trigger core @40 m/min
At deployment, half of Tape was ripped off of out side scope loop! Had to re-tape all three loops of scope together on that half! Winch tripped at 2,945m w/o.
In to bottom @ 30m/min!

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # ~~02~~ 61 CR
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705/04 PC
Mo/Day/Yr 6 / 10 / 07
Observer PATTON / WILSON

Latitude:	launch	03 D 52 .299 min	N	S
	on bottom	03 D ____ .294 min	N	S
Longitude:	launch	093 D 28 .481 min	E	W
	on bottom	093 D ____ .46 min	E	W

Navigation Type: Loran SatNav GPS PCODE other____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other ____

	launched	on bottom	recovered	
Time:	0937	11:19	____	(GMT)
Water Depth:	3476	3476	____	Meters
Wire:	0	3471	____	Meters

Piston Core Length: 20 40 60 80 100 other____
Scope: 24'6"
Trigger Line Length: 32' drain
Safety Pin Size: — or Actuating Depth: —
Pinger (Meters above corehead): —

Tension:
At surface: ~5400
Prior to trip: ~11000
On Bottom: ~4900
Pullout (max): ~17045
Ascending: ____

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
PC				
1	30.2	0	30.2	
2	150.3	30.2	180.5	
3	150	180.5	330.5	
4	127	330.5	457.5	
TC				
1	92.3	0	92.3	
2	100.1	92.3	192.4	

Other Samplers:

Type & No:	Section	Length:
104 TC		

Remarks:

PISTON CORE Deployed from stern A-frame with plastic sock, 2 pigs, & 9 lead weights on TC. STERN TO WEATHER.
SHIP BOUNCES W/SOME SPLASH
SLOW WINCH TO 35m/min @ 1000 mwd.
X1260 mwd BIG BOUNCH. 100%
Slow winch to 30m/min @ 2000 mwd.

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle

Ship Station # ~~61~~ 62 CR

Cruise: Knox0512 Leg: 2

Core Name & Station # RR0705-105PC

Mo/Day/Yr 6 / 10 / 07

Observer Grupo 'Alpha' / J. Dorrance

Latitude:	launch	04	D 04 . 730	min	(N)	S
	on bottom	04	D 04 . 731	min	(N)	S
Longitude:	launch	093	D 10 . 875	min	(E)	W
	on bottom	093	D 10 . 879	min	(E)	W

Navigation Type: Loran SatNav (GPS) (PCODE) other_____

Sampler types
2.5" Piston Core - PC
(4" Piston Core - JC)
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

	launched	on bottom	recovered	
Time:	17:55	20 05	2230	(GMT)
Water Depth:	4486	4487		Meters
Wire:	0	4468	0	Meters

Piston Core Length: (20) 40 60 80 100 other_____

Scope: 26.5'

Trigger Line Length: 32' chain

Safety Pin Size: - or Actuating Depth: -

Pinger (Meters above corehead): -

Tension:

At surface: 52001b

Prior to trip: 12,9001b

On Bottom: 8,2001b

Pullout (max): 17,2271b

Ascending: 13,8061b

Other Samplers:

Type & No:	Section	Length:
10" TC		

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	151	0	151	
2	123.5	151	274.5	
TC				
1	54.5	0	54.5	

Remarks:

Piston Core deployed from Stern A-frame. 2 pigs / 9 lead weights on TC w/ 32' chain / single pair shock absorber. 40 m/min then slowed to 30 m/min @ 2,500 m w/o.

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 62
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705 - 106 PC
Mo/Day/Yr 6 / 11 / 07
Observer PATTON / WALCZAK / WILSON

Latitude:	launch	03	D 19 . 791	min	N	S
	on bottom	03	D 19 . 780	min	N	S
Longitude:	launch	91	D 56 . 374	min	E	W
	on bottom	91	D 56 . 367	min	E	W

Navigation Type:
Loran SatNav GPS PCODE other_____

	launched	on bottom	recovered	
Time:	0845	10:44		(GMT)
Water Depth:	4142	4147		Meters
Wire:	0	4132		Meters

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

Piston Core Length: 20 40 60 80 100 other_____
Scope: 26'
Trigger Line Length: 32' chain
Safety Pin Size: — or Actuating Depth: —
Pinger (Meters above corehead): —

Tension:
At surface: _____
Prior to trip: ~12800
On Bottom: ~7000
Pullout (max): 16700
Ascending: ~13000

Other Samplers:

Type & No:	Section	Length:
106 TC		

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
PC				
1	139.4	0	139.4	
2	132.9	139.4	272.3	
3	78.7	272.3	351	
TC				
1	99.6	0	99.6	
2	145.6	99.6	245.2	

Remarks:
Piston core deployed from stern A-frame w/ plastic sock, 2 plgs in weight stand
Head into bottom @ 30 m/min

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 63
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705 - 107PC
Mo/Day/Yr 6 / 11 / 07
Observer Ronson / Jimmy D / C. Moser

Latitude: launch 04 D 19 . 6088 min N S
on bottom 04 D 19 . _____ min N S
Longitude: launch 92 D 55 . 068 min E W
on bottom 92 D 5 . _____ min E W

Navigation Type: Loran SatNav GPS PCODE other _____

	launched	on bottom	recovered	
Time:	22:10	00:31		(GMT)
Water Depth:	4518			Meters
Wire:	0	4494		Meters

Piston Core Length: 20 40 60 80 100 other _____
Scope: 27'
Trigger Line Length: 32' chain
Safety Pin Size: — or Actuating Depth: —
Pinger (Meters above corehead): —

Tension:
At surface: 5,500
Prior to trip: 13,000
On Bottom: 8,000
Pullout (max): _____
Ascending: _____

Other Samplers:
Type & No: Section Length:
107TC

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
CORE	PRE-TRIPPED.			
MINIMAL	PC	Recovery!		
Pre-trip tension				spike = 19,354 lbs!
1	15.5	0	15.5	PC
2	65	15.5	80.5	
1	50.5	0	50.5	TC
2	117.5	50.5	168	
3	11	168	179	

Remarks:
Piston core deployed from stern A-frame w/ plastic sock, 2 pigs in weight stand, and 9 lead weights on trigger core w/ 32ft. chain trigger line.
Possible pre-trip of core at 1134Z?
Slowed to 35m/min @ 200m.
Slowed to 30m/min @ 3,000m.
30m/min Into to bottom. Core pre-tripped. No trip tension drop and no pullout tension spike.

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Ship of Fools — Ship Station # 64

Cruise: Knox 05RR — Leg: 2 — Core Name & Station # RR0705-108PC

Mo/Day/Yr 6 / 12 / 07 — Observer Polly Wog

Latitude:	launch	04 D 39.593 min	N	S		
	on bottom	04 D 39.593 min	N	S		
Longitude:	launch	093 D 08.575 min	E	W		
	on bottom	093 D 08.574 min	E	W		

Navigation Type: Loran SatNav GPS PCODE other_____

	launched	on bottom	recovered	
Time:	06:12	07:23		(GMT)
Water Depth:	2959	2959		Meters
Wire:	0	2948		Meters

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
Multi Corer - MC
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

Piston Core Length: 20 40 60 80 100 other_____

Scope: 23.5'

Trigger Line Length: 32'

Safety Pin Size: ✓ or Actuating Depth: ✓

Pinger (Meters above corehead): ✓

Tension:

At surface:	5,500
Prior to trip:	11,000
On Bottom:	5,000
Pullout (max):	13,995
Ascending:	11,700

Other Samplers:

Type & No: Section Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	100.5	0	100.5	PC
2	150.5	100.5	251	
3	118.5	251	369.5	
1	128	0	128	TC

Remarks: Last piston core! 2 pigs / 9 lead TC weights w/ 32' chain
Into bottom @ 40m/min!
Winch tripped at core trip on bottom.

Revised 3/07

OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel: R/V Revelle
Ship Station # 64
Cruise: KNOX05RR Leg: 2
Core Name & Station # RR0705-109MC
Mo/Day/Yr 6 / 12 / 07
Observer Crusty Shellback / LANGNER

Latitude:	launch	04	D 39 .594	min	(N)	S
	on bottom	04	D 39 .5916	min	(N)	S
Longitude:	launch	93	D 08 .572	min	(E)	W
	on bottom	93	D 08 .5759	min	(E)	W

Navigation Type: Loran SatNav (GPS) PCODE other_____

Sampler types
2.5" Piston Core - PC
4" Piston Core - JC
4" Gravity (Big Bertha)-GC
Gravity - GC
Benthos Corer-GC
Kasten - K
Box Core - BC
(Multi Corer - MC)
Dredge - DR
Rock Core - RC
Shipek Grab - SG
Other _____

	launched	on bottom	recovered	
Time:	10:00	11:27		(GMT)
Water Depth:	2959	2959		Meters
Wire:	Ø	2963		Meters

Piston Core Length: 20 40 60 80 100 other_____
Scope: ✓
Trigger Line Length: ✓
Safety Pin Size: ✓ or Actuating Depth: ✓
Pinger (Meters above corehead): 75

Tension:

At surface:	1000
Prior to trip:	5,500
On Bottom:	4,400
Pullout (max):	7,000
Ascending:	

	Wire
X	
1	~~790~~
2	1540
3	2286

Other Samplers:

Type & No:	Section	Length:

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks
1	empty			lids closed; tub full of H_2O
2	7.75			
3	empty			>>
4	6.7			
5	6			
6	7.5			
7	7			
8	2			

Remarks:

- Our last core-period!
- Touchdown @ 2966 payout to 2983 (touchdown @ 15mpm).
- Slow decrease in tension @ touchdown (indistinct).
- Pullout @ 5mpm, 3 minutes on the bottom.
- our touchdown estimate looked delayed. Real touchdown may have been as early as 5959 given the pullout display.

Revised 3/07