Gravity Corer Deck Log

SESAR IGSN #: __ECS003000___

USGS ID: H-3-10-AR

Coast Guard ID: HLY1002

Date/Time 11 Aug 2010

Latitude 71° 19.06

Longitude 143° 59.897

Wire Out 2487

Weight Stand 2400

Purpose Piercement struct L125 L977AR

Depth 2530

Number of Barrels 1

Pull Out 7110

Static 6500

Target Pt _71°19.08'N, -144°00.0'W__

Observer BDE

Ships in H_2O 2130z

sea state 5'

wind 060° ~ 20 kts

hit @ 100 m/min

hold 200m off btm

Gravity Core

Core ID 1GB1

Max Recovery _____

Mud Line

240

Catcher (CA)

Cutter(CC)

Cut Points

S1	✓	Section 1
S2	✓	Section 2
S3		Section 3
S4		Section 4
CA		Core Catcher
CC	✓	Core Cutter
MFx	✓	Microfauna (ext)
GG		Gas (geochem)

Brief Textural Description

Other Comments Test various wire rates 80, 100, 100+

2500
1300
3800

4000
2400
6500

Piston Corer Deck Log
(2500 lb)

SESAR IGSN #: ECS 003001 3002

USGS ID: H-3-10-AR

Coast Guard ID: HLY1002

Date/Time 3:15:30

Latitude 71 19.048

Longitude 143 59.982

Wire Out 2465

Scope 16'

Purpose Piercement Structure Line 725 L977AR

Depth 2538

Observer BDE

in H_2O ~1915 load Pullout 8750 Base Tension ~6200

Piston Core

Core ID 1P-1 ECS-3001

Max Recovery 571cm

Mud Line 20ft

0 D 121cm

121 C 150

271 B 150

many cracks

421 A 150

464 GAP 522

571

Catcher (CA)

Cutter(CC)

Cut Points

S1	✓	Section 1 0-121
S2	✓	Section 2 121-271
S3	✓	Section 3 271-421
S4	✓	Section 4 421-571
~~S5~~		~~Section 5~~
~~S6~~		~~Section 6~~
CA	✓	Core Catcher 2bags
CC	✓	Core Cutter (HYDRATE) NOW GONE
MFx	✓	Microfauna (ext)
GG	✓	Gas (geochem)
Photo	✓	of gas hydrate in cc

Gas hydrate in core cutter
CC undamaged
A Lower sections fractured by apparent gas, numerous voids throughout
0cm Measurements on deck from bottom of section
B Gap in core 121-123cm

☑ MFsurface Strong Gas Odor

Wire kinked when 9/16 wire slacked + trigger arm struck bucket. Wire reterminated. Pull test required.

Trigger Core ECS 3002

Core ID 1TC-1

Max Recovery 83 cm

Mud Line

Catcher (CA)

Cutter(CC)

Cut Points

S1	✓	Section 1
~~S2~~		~~Section 2~~
CA	✓	Core Catcher
CC	✓	Core Cutter
MFx	✓	Microfauna (ext)

Trigger core overpenetrated surface sediment blown out of top of core

Brief Textural Description → ice band @ bow - beginning to come along side

Other Comments

payout @ btm 20m/min

Deck forgot to put water in barrel @ deployment

after txfr of 9/16 to 3/8 on recovery, the 9/16 slacked - trigger landed in bucket

Piston Corer Deck Log
(2500 lb)

SESAR IGSN #: ECS003003 3004

USGS ID: H-3-10-AR

Coast Guard ID: HLY1002

Date/Time 12 Aug 11:19 Z

Latitude 70 57.546

Longitude 144 03.143

Wire Out 1118 m

Scope 16'

Purpose Line 720 upper outcrop

Depth 1157 m

Observer BDE

Pull out 9000 lbs

Base ~~weight~~ tension 4100

Piston Core ECS003003

Core ID 2P-1

Max Recovery ~~292 cm~~ 302 cm

Mud Line

5m

0 C 62cm

62 B 90cm

152 ~~142~~ A 150cm

302 ~~292~~ 0cm

Catcher (CA) CA3 CA1/2

Cutter(CC)

Cut Points

S1	✓	Section 1 0-62
S2	✓	Section 2 62-~~142~~ 152
S3	✓	Section 3 ~~142-292~~ 152-302
S4		Section 4
S5		Section 5
S6		Section 6
CA	✓	Core Catcher (3)*
CC	✓	Core Cutter (2)
MFx	✓	Microfauna (ext)
GG		Gas (geochem)

Trigger Core ECS003004

Core ID 2TC-1

Max Recovery 0-79

Mud Line

Catcher (CA)

Cutter(CC)

Cut Points

S1	✓	Section 1
~~S2~~		~~Section 2~~
CA	✓	Core Catcher (2)
CC	✓	Core Cutter
MFx	✓	Microfauna (ext)

CC Undamaged, No dents

* CA 1+2 are stratigraphically equivalent CA3 is stratigraphically shallower

Sediment in CA is very stiff - removal of CA pulled plug out of barrel (sample CA3) CA 1+2 firmly held in CA, cut from same piece.

* Measurements on deck from bottom of core

Breakaway piston 27cm from top of core

Brief Textural Description

Other Comments

Piston Corer Deck Log
(2500 lb)

SESAR IGSN #: ECS 0003005 / ECS 0003006
USGS ID: H-3-10-AR
Coast Guard ID: HLY1002

Date/Time 25 Aug 2010 / 1046 local 1746 Z
Latitude 87° 34.77933 } Reconstructed from log
Longitude 134° 28.67372 }
Wire Out 3009 m
Scope 16'

Purpose Date 2009 Seamount
Depth 3070 m
Observer

Piston Core ECS 3005

Core ID 3P-1
Max Recovery

Mud Line — Cut Points

546 cm
Actual 0 cm E — 76 cm
Top of Core
4 cm
80 C* — 120 cm
200 B — 144 cm
344 A — 150 cm
Contact (418 cm)
494 cm — 0

S1	☐	Section 1
S2	☐	Section 2
S3	☐	Section 3
S4	☐	Section 4
S5	☐	Section 5
S6	☐	Section 6
CA2	☑	Core Catcher (in sleeve)
CC	☑	Core Cutter
MFx	☑	Microfauna (ext)
GG	☐	Gas (geochem)
Tx (Ext)	☑	outside core barrel top of CC (~496 cm)

Also for MFx

~~See other side~~

Catcher (CA) — CA1 ☑ end cut (bag)
Cutter(CC)

*Field measurements from bottom of barrel.
Piston 33 cm above mud line

Trigger Core ECS 3006

Core ID 3TC-1
Max Recovery

Mud Line — Cut Points

S1	☐	Section 1
S2	☐	Section 2
CA1	☑	Core Catcher
CC	☐	Core Cutter
MFx	☐	Microfauna (ext)
	☐	

No CC
CA2 ☑

Catcher (CA)
Cutter(CC)

CA1 is bottom
CA2 is top

Bottom of Core
Yellowish orange sticky, silty clay w/ granules of same (granular silty clay clasts)

Brief Textural Description Liner imploded from 207 - 232 cm
** Sample D is in Ziplock Bag

Other Comments C: 130 - 149 cm gap (core disturbed) - contains plastic liner from below?

344
74

A: Contact at 418 cm from Top of Core (74 cm from top of Section A)

Piston Corer Deck Log
(2500 lb)

SESAR IGSN #: ECS003007 3008

USGS ID: H-3-10-AR

Coast Guard ID: HLY1002

Date/Time 31 Aug 2010

Latitude 75 35.048

Longitude 140 05.576

Wire Out 3591 wire tension 8300

Scope ~~11~~ 17' pullout 10800

Purpose Distal Submarine Fan Channel site M02

Depth 3700

Observer BDE/CS

on deck & secured 1254 hrs

Piston Core

Core ID 4P-1 ECS003007

Max Recovery _____

25' Mud Line (on weight stand)

2 pipe

Cut Points

S1	☑	Section 1 0-87
S2	☑	Section 2 87-187
S3	☑	Section 3 187-337
S4	☐	Section 4
S5	☐	Section 5
S6	☐	Section 6
CA	☑	Core Catcher
CC	☐	Core Cutter
MFx	☑	Microfauna (ext)
GG	☐	Gas (geochem)
	☐	

C — 100 cm

B — 150 cm

A — 0

Catcher (CA)

Cutter(CC)

No Core Cutter sample

Trigger Core

Core ID 4TC-1 ECS003008

Max Recovery _____

Mud Line 100 cm

Cut Points

S1	☐	Section 1
S2	☐	Section 2
CA	☑	Core Catcher
CC	☐	Core Cutter
MFx	☐	Microfauna (ext)
	☐	

Ball of sed in CA - otherwise clean.

Catcher (CA)

Cutter(CC)

Brief Textural Description

Other Comments

- not a clean hit: bounce? / fall over?
- Trigger wire wrapped around 9/16 wire
- Piston was all the way up the liner
- Primarily a Gravity Core

Piston Corer Deck Log
(2500 lb)

SESAR IGSN #: ESC 003009 3010

USGS ID: H-3-10-AR

Coast Guard ID: HLY1002

Date/Time 02 Sept 2010 / 18:36z

Latitude 76° 32.626

Longitude -128° 37.647

Wire Out 2015

Scope 16' - Loop tied up on main wire

wire wt ~5800 #'s

Pullout 8240 #'s

⇒ 2400 # ↑ @ pullout

Purpose Site of Opportunity (WP 37

Depth 2081

Observer

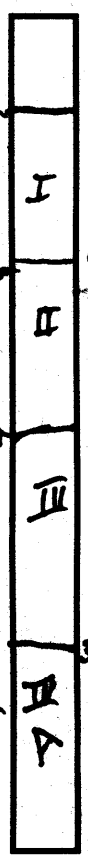
Piston Core ESC 003009

Core ID 5P-1

Max Recovery

Mud Line

To top of weight stand



Catcher (CA)

Cutter(CC)

Cut Points

S1	✓	Section 1
S2	✓	Section 2
S3	✓	Section 3
S4	✓	Section 4
S5		Section 5
S6		Section 6
CA	✓	Core Catcher
CC		Core Cutter *
MFx	✓	Microfauna (ext)
GG		Gas (geochem)
WSS	✓	Scrapings from wt stand head ↳ jammed into ports

*No CC

Trigger Core ESC 003010

Core ID 5TC-1

Max Recovery

Mud Line

Catcher (CA)

Cutter(CC)

Cut Points

S1	✓	Section 1
S2		Section 2
CA	✓	Core Catcher
CC		Core Cutter *
MFx	✓	Microfauna (ext)

*No CC

Brief Textural Description

Other Comments

waiting for LSSL

Fog 1/2 mile vis; 9/10 ice

@ 2010 strange decrease in wt no hard abrupt drop