#105137REF1 03036
REEFS1 03050
Madison-Swanson
Sep 24-29, 2003
Steamboat Lumps
Nov 20-24, 2003
VIDEO LOG
(Sep 25-28, Nov 21-23, 2003)

USGS
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COASTAL AND MARINE GEOLOGY PR
WOODS HOLE FIELD CENTER (WI
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GRAB OPERATIONS AND PROCESSING LOG

SHIP AND CRUISE: REEFS1

AREA: Madison Swanson & Steamboat Lumps

Leg 1: DATES: Sept/Oct 2003 (24-29 Sep) cruise # 03036

CHIEF SCIENTIST: Scanlon/Koenig

Leg 2: 20-24 Nov 03 cruise # 03050

03036 vid

REEFS 03036
Madison-Swanson
Steamboat Lumps
west Florida Shelf
sep 24-29, 2003
K. Scanlon / C. Koenig
FSU

GPS points

	Date	Time	Latitude	Longitude
009	26 Sep	10:03	29° 16.801'	85° 46.203'
010	26 Sep	10:16	29° 16.766'	85° 46.525'
011	26 Sep	10:30	29° 16.718'	85° 46.843'
012	26 Sep	10:45	29° 16.702'	85° 47.154'
013	"	11:55	29° 16.196'	85° 46.883'
014	"	12:10	29° 16.132'	85° 47.183'
015	"	12:27	29° 16.059'	85° 47.526'
016	"	12:42	29° 16.019'	85° 47.810'
017	"	13:58	29° 14.654'	85° 44.598'
018	"	14:13	29° 14.655'	85° 44.946'
019	"	14:28	29° 14.664'	85° 45.287'
020	"	14:44	29° 14.678'	85° 45.630'
021	"	15:42	29° 12.970'	85° 43.255'
022	"	15:57	29° 13.002'	85° 43.569'
023	"	16:12	29° 13.034'	85° 43.862'
024	"	16:28	29° 13.083'	85° 44.151'
025	"	17:14	29° 12.911	85° 41.224'
026	"	17:29	29° 12.936	85° 41.503'
027	"	17:45	29° 12.929	85° 41.831'
028	"	18:00	29° 12.946	85° 42.126'
029	"	18:16	29° 12.977	85° 42.386'
030	27 Sep	9:20	29° 11.463	85° 38.783'
031	"	9:35	29° 11.157	85° 38.757'
032	"	9:51	29° 10.853	85° 38.737'
033	"	10:06	29° 10.521	85° 38.725'

Fix	Date	Time	Latitude	Longitude
034	27Sep03	11:22	29°09.788	85°38.633'
035	"	11:37	29°09.477	85°38.680'
036	"	11:53	29°09.139	85°38.735'
037	"	12:08	29°08.822	85°38.865'
038	"	14:03	29°06.980	85°38.809'
039	"	14:19	29°06.688	85°38.842'
040	"	14:34	29°06.381	85°38.901'
041	"	14:49	29°06.069	85°38.964'
042	"	16:43	29°11.313	85°48.238'
043	"	16:58	29°10.940	85°48.253'
044	"	17:15	29°10.561	85°48.301'
045	"	17:30	29°10.262	85°48.340'
046	"	18:31	29°14.127	85°49.033'
047	"	18:48	29°13.890	85°49.065'
048	"	19:03	29°13.546	85°49.049'
049	"	19:18	29°13.198	85°49.036'
050	28Sep03	9:18	29°12.705	85°38.866'
051	"	9:33	29°12.452	85°38.859'
052	"	9:48	29°12.117	85°38.844'
053	"	10:05	29°11.850	85°38.854'
054	"	11:37	29°08.231	85°41.994'
055	"	11:51	29°07.985	85°41.975'
056	"	12:06	29°07.682	85°41.932'
057	"	12:21	29°07.322	85°41.886'

ROV

~~GRAB~~ OPERATIONS AND PROCESSING LOG

Ship: REEFS I

~~Grab type:~~ ROV

Cruise: 03036

Station: A

Date: 25 Sep 03

Sample ID: 1 m

Time: JD / Z

Depth: m

Latitude: 29° 16.758' N

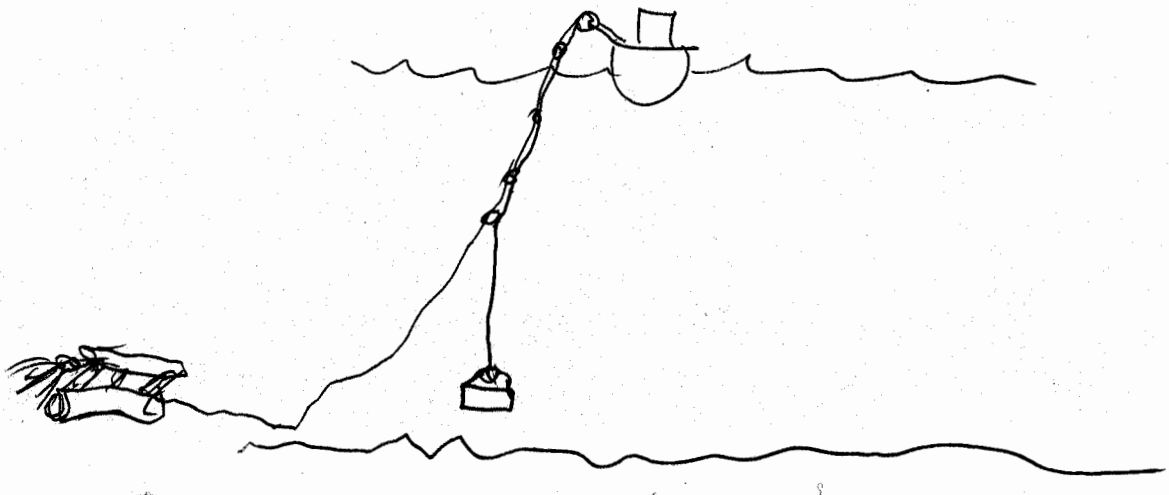
Longitude: 85° 39.384' W

Comments: on bottom 203'

lots of purgies.

ROV worked well, trimmed well, tilt stopped functioning partway through. Hung the umbilical during recovery (under the boat) – Chris went in to free it.

Processors:



SLED

~~ROV~~

~~GRAB~~ OPERATIONS AND PROCESSING LOG

Ship: REEFS1 **~~Grab type:~~** Koenig sled.

Cruise: 03036 **Station:** M

Date: 26 Sep 03 **Sample ID:** 2 m

Time:JD / Z **Depth:** ~80 m

Latitude: N

Longitude: W

Comments: trying the Koenig sled w/ Gledhill's camera. Capt'n is using trolling gear to keep speed over bottom at ~1 kt. Tied off about 10:03 am (CT) - Chris's GPS fix 09 - with about 700' of tow line out.

position of boat - sled is about 500' aft -

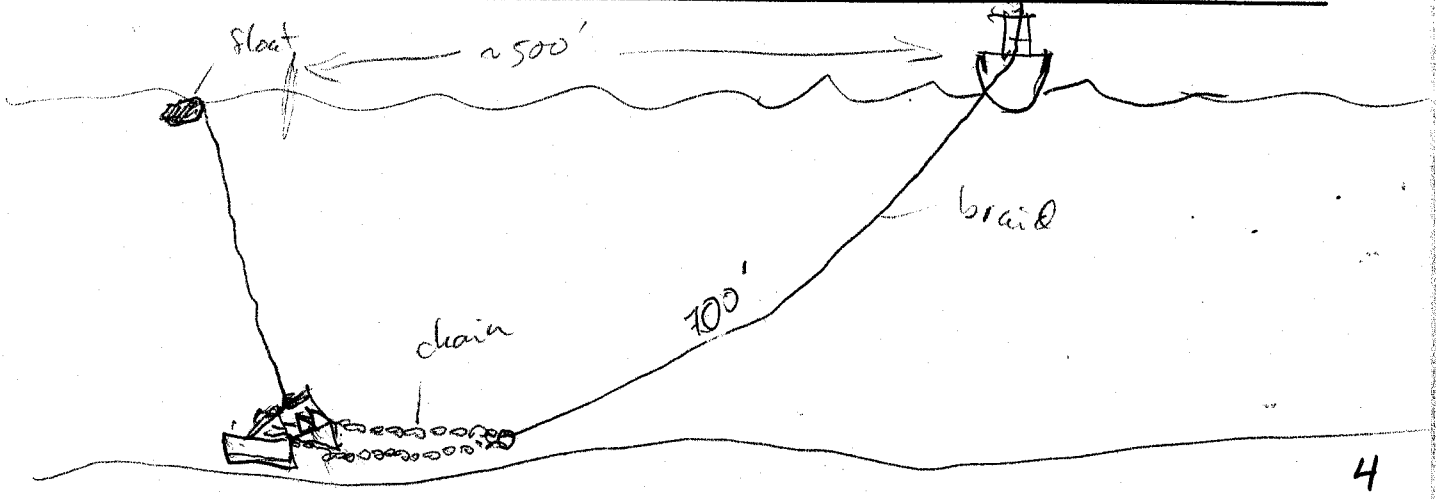
10:03 - GPS fix 09

10:15 - GPS fix 10

" "

" 12

Processors:



SLED

~~Reef~~

~~GRAB~~ OPERATIONS AND PROCESSING LOG

Ship: REEFS1

~~Grab~~ type: Koenig sled

Cruise: 03036

Station: N

Date: 26 Sep 03

Sample ID: 3 m

Time: JD ____ / ____ Z

Depth: ~85 m

Latitude: ____ N

Longitude: ____ W

Comments: towed with ~1000' of line this time

GPS fix 13

" 14

" 15

" 16

lower backscatter than site 2 – video shows more burrows, less shell here.

Processors: ____

SLED

~~ROV~~

~~GRAB~~ OPERATIONS AND PROCESSING LOG

Ship: REEFS1

~~Grab type~~: Koesing sled

Cruise: 03036

Station: L

Date: 26 Sep 03

Sample ID: Site 4 m

Time: JD ____ / ____ Z

Depth: ____ m

Latitude: ____ N

Longitude: ____ W

Comments: 800' of line out

GPS 17

18

19

20

Processors: ____

SLED

~~GRAB~~ OPERATIONS AND PROCESSING LOG

Ship: RREFS I

~~Grab~~ type: Koenig sled

Cruise: 03036

Station: K

Date: 26 Sep 03

Sample ID: site 5 m

Time: JD ____ / ____ Z

Depth: ____ m

Latitude: ____ N

Longitude: ____ W

Comments: 800' of line

GPS #021

022

023

024

Processors: ____

~~ROV~~

SLED ~~GRAB~~ OPERATIONS AND PROCESSING LOG

Ship: REEFS I

Cruise: 03036

Date: 26 Sep 03

Time: JD ____ / ____ Z

Latitude: ____ N

Longitude: ____ W

Grab type: Koenig sled

Station: J

Sample ID: Sit 6 m

Depth: ~80-85 m

Comments: 800' line out

GPS #25

26

27

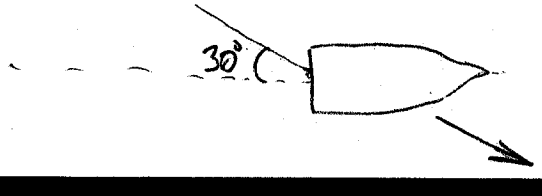
28

29

Last site for tonight. Sun is setting and everyone is tired after a rough night (6'-8' seas) last night.

Processors: Big John at the helm...

at Sites 2-6 the sled was towed off the stern with about a 30° angle to port



~~ROV~~

SLED ~~GRAB~~ OPERATIONS AND PROCESSING LOG

Ship: REEFS I

Cruise: 03036

Date: 27 Sep 03

Time:JD ____ / ____ Z

Latitude: ____ N

Longitude: ____ W

~~Grab type:~~ Koenig sled

Station: 6

Sample ID: Site 7 m

Depth: 95 - 100 m

Comments: put my Sony VX2000 w/ Gates housing and Chris's lasers on for this deeper site - on the Koenig sled. 900' of line out.

GPS fix 30

31

32

33

- light level too low - need to add flood light
- lens fogged - need to add dessicant

Processors: ____

Gates housing is good to 450', according to phone call to Gates yesterday.

~~ROV~~

SLED ~~GRAB~~ OPERATIONS AND PROCESSING LOG

Ship: REEFS1

Cruise: 03036

Date: 27Sep03

Time:JD ____ / ____ Z

Latitude: ____ N

Longitude: ____ W

Grab type: Koenig sled

Station: H

Sample ID: Site 8 m

Depth: ~105-115 m

Comments: Koenig sled w/ my Sony VX 2000 + Halcyon light. Dessicant in camera housing. 1000' line out

Light was out when we brought it on deck — suspect batterie ran down. Worked later when batterie warmed up and appeared to be working for whole 1 hr tape.

GPS 34

35

36

37

Processors: ____

~~TOW~~

SLED ~~GRAB~~ OPERATIONS AND PROCESSING LOG

Ship: REEFS I

Cruise: 03036

Date: 27 Sep 03

Time:JD ____ / ____ Z

Latitude: ____ N

Longitude: ____ W

Grab type: Koenig sled

Station: V

Sample ID: Site 9 m

Depth: 125-130 m

Comments: repositioned the light, added weight to sled (10lbs), used red filter — bad idea, no need with flood light on! Light position & wt good & 1000' line out

GPS 38

39

40

41

Processors: ____

Greg's Camel pack experiment...

~~ROV~~

SLED ~~GRAB~~ OPERATIONS AND PROCESSING LOG

Ship: REEFS I

Cruise: 03036

Date: 27 Sep 03

Time: JD _____ / _____ Z

Latitude: _____ N

Longitude: _____ W

~~Grab~~ type: Koenig sled

Station: R

Sample ID: Site 10 m

Depth: 105-110 m

Comments: 1000' line out

Sony VX2000 camera (no red filter!) & flood light & lasers. Flood light seems over-bright at center - maybe because we are losing the ambient sunlight?

GPS 42

43

44

45

Processors: _____

SLED ~~GRAB~~ OPERATIONS AND PROCESSING LOG

Ship: REEFS1

Cruise: 03036

Date: 27 Sep 03

Time:JD ____ / ____ Z

Latitude: ____ N

Longitude: ____ W

Grab type: Koenig sled

Station: W

Sample ID: Site 11 m

Depth: ~120 m

Comments: Sony VX 2000 w/ Halogen lights & lasers

Chris is adjusting the light angle to shine a bit further forward and is reattaching the tagline/buoy rig to a lower attachment point on the sled.

1000' line out

GPS 46

47

48

49

Processors: ____

SLED ~~GRAB~~ OPERATIONS AND PROCESSING LOG

Ship: REEFS I

Cruise: 03036

Date: 28 Sep 03

Time: JD _____ / _____ Z

Latitude: _____ N

Longitude: _____ W

~~Grab~~ type: Koenig sled

Station: near D (¼ nm: S)

Sample ID: Site 12 m

Depth: 80-90 m

Comments: ~800' line out

GPS fix 50

51

52

53

Processors: _____

SLED ~~GRAB~~ OPERATIONS AND PROCESSING LOG

Ship: REEFS I

~~Grab~~ type: Koenig Sled

Cruise: 03036

Station: U

Date: 28 Sep 03

Sample ID: Site 13 m

Time: JD ____ / ____ Z

Depth: 135-140 m

Latitude: ____ N

Longitude: ____ W

Comments: 1000' line out

camera went out of focus during descent — whole tape is blurry. Can't get it to focus on deck now.

Heading for home - low fuel, fuel filter problems, and deteriorating weather. Hmm... Site 13...

Processors: ____

Steamboat Lumps

GRAB OPERATIONS AND PROCESSING LOG

Ship: REEFS1 | ~~Grab type~~: Koenig sled

Cruise: 03050 | Station: A

Date: 21 Nov 03 / ~12:30 pm CST | Sample ID: Sta14 m

Time:JD ____ / ____ Z | Depth: ~87 m m

Latitude: ____ N

Longitude: ____ W

Comments: First site of second leg. Weather is fine, seas < 2'.

Sony camera set on auto focus, Halcyon light.

Put out ~1000' line (call of it), towing South but current is pushing sled to east.

Forgot the lasers!

light went out about 30 min into the tow.

I'm going to try recharging 2 or 3 times each time.

Processors: ____

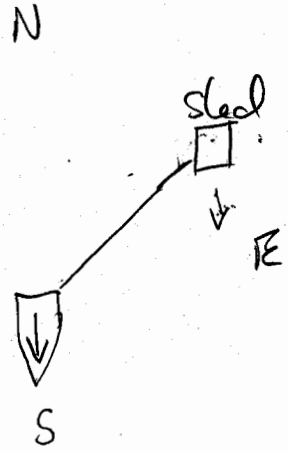
Nav WayPoint 59

60

61

62

200°



Steamboat Lumps

GRAB OPERATIONS AND PROCESSING LOG

Ship: REEFS1

~~Grab~~ type: Koenig sled

Cruise: 03050

Station: C

Date: 21 Nov 03

Sample ID: Site 15 m

Time: JD ____ / 4:10 EST Z

Depth: 95 - 90 m m

Latitude: ____ N

Longitude: ____ W

Comments: same configuration as Site 14, but added lasers (20 cm space),

accidently left focus on manual - tape out of focus - Damn

Processors: ____

WP # 63

64

65

missed taking one fix

Steamboat Lumps

GRAB OPERATIONS AND PROCESSING LOG

Ship: REEFS I

Cruise: 03050

Date: 7 Nov 03

Time:JD 6:33 EST Z

Latitude: N

Longitude: W

~~Grab-type~~: Koenig sled

Station: S/L

Sample ID: Site 16 m

Depth: ~90m m

Comments: Trying to run across bright band — expected gravel, but didn't see it on 1st quick review of tape. Maybe we missed the target? or bright band is actually buried hard bottom?

Processors:

Waypts: 66
67
68
69

Steamboat Lumps

GRAB OPERATIONS AND PROCESSING LOG

Ship: REFFS1 **Grab type:** Koenig sled

Cruise: 03050 **Station:** N

Date: 21 Nov 03 **Sample ID:** Site 17 m

Time:JD / Z **Depth:** ~90m m

Latitude: N

Longitude: W

Comments: Current is carrying us off target, trackline is curving to north. Taking extra waypoints and saving detailed track.

dark band on SSS

Processors:

WP: 70
↓
75

Steamboat Lumps

GRAB OPERATIONS AND PROCESSING LOG

Ship: REEFS1

~~Grab type~~: Koenig sled

Cruise: 03050

Station: 0

Date: 21Nov03

Sample ID: Site 18 m

Time:JD 10:15 EST Z

Depth: ~90m m

Latitude: N

Longitude: W

Comments: light band on sss

Quitting for the night.

Processors:

taking waypoints every 9 minutes

wp: 76

↓

81

Steamboat Lumps

~~GRAB~~ OPERATIONS AND PROCESSING LOG

Ship: REEFS I

Cruise: 03050

Date: 22 Nov 03

Time:JD 9:03 EST Z

Latitude: N

Longitude: W

Grab type: Koenig sled "Rosebud"

Station: ~J

Sample ID: Site 19 m

Depth: ~90 m m

Comments: trying to cross the suspected gravel band that we missed at Sta 16 - Got it!

Processors:

WP: 82
↓
46

Steamboat Lumps

~~GRAB~~ OPERATIONS AND PROCESSING LOG

RoseBud (Remote Submersible Benthic Device)

Ship: REBPS1

Grab type: Koenig Sled

Cruise: 03050

Station: V

Date: 22 Nov 03

Sample ID: Site 20 m

Time:JD 11:24 EST Z

Depth: 120m+ m

Latitude: N

Longitude: W

Comments: going off the mosaic in SW corner of Steamboat Lumps

Processors:

WP: 87

↓

91

Steamboat Lumps

Rose Bud

~~GRAB~~ OPERATIONS AND PROCESSING LOG

Ship: REEFS1

~~Grab type:~~ Koenigsled

Cruise: 03050

Station: P & Q

Date: 22 NOV 03

Sample ID: Site 21 m

Time: JD 326 1515 EST Z

Depth: 100-110 m m

Latitude: N

Longitude: W

Comments: Saw some dolphins at surface...

Trying to go from P (dark SSS) to Q (bright SSS - maybe hardbottom).

Processors:

WP: 92

↓

95

Steamboat Lumps

RoseBud

~~GRAB~~ OPERATIONS AND PROCESSING LOG

Ship: REEFS I

~~Grab~~ type: Koenig Sled

Cruise: 03050

Station: S

Date: 22 Nov 03

Sample ID: S.Te 22 m

Time: JD 04:06 EST Z

Depth: ~ 85 m m

Latitude: N

Longitude: W

Comments: SE corner of Steamboat Lumps - looks v. uniform on SSS

Processors:

WP 96

↓

99

Steamboat Lumps

RoseBud

~~GRAB~~ OPERATIONS AND PROCESSING LOG

Ship: REBFS1

~~Grab~~ type: Koenigsled

Cruise: 03050

Station: I

Date: 22 Nov 03

Sample ID: Site 23 m

Time: JD 6:07 EST Z

Depth: 75-80m m

Latitude: N

Longitude: W

Comments: MANY FISH SEEN ON VIDEO.
Lots of sediment in water column - fish stirring thing up.

Processors:

WPts. 100

↓

103 — last WP late - probably ran out of tape while on bottom

Steamboat Lumps

Rose Bud

~~CRAB~~ OPERATIONS AND PROCESSING LOG

Ship: REEFS1

~~Gear~~ Type: Koenig sled

Cruise: 03050

Station: G

Date: 22 NOV 03

Sample ID: Site 24 m

Time: JD 8:10 EST Z

Depth: ~70 m m

Latitude: N

Longitude: W

Comments:

Processors:

WP: 104

↓

107

Steamboat Lumps

Rose Bud

~~GRAB OP~~ERATIONS AND PROCESSING LOG

Ship: REFS1

~~Grab type~~: Koenig Sled

Cruise: 03050

Station: F

Date: 22 Nov 03

Sample ID: Site 25 m

Time:JD 9:51 EST Z

Depth: ~70 m m

Latitude: N

Longitude: W

Comments: NE corner of Steamboat ("Hills" region). This will be our last tow for today - will head to Mad Swan overnight.

Processors:

WPts 108

↓

111

Madison - Swanson area

Rose Bud

~~GRAB~~ OPERATIONS AND PROCESSING LOG

Ship: REEFS1

Cruise: 03050

Date: 23Nov 03

Time: JD 10:51 EST Z

Latitude: N

Longitude: W

Grab type: Koenig sled

Station: 1

Sample ID: Site 26 m

Depth: ~85/90 m m

Comments:

Processors:

WP: 112

↓

115

Rose Bud Steamboat Lumps

~~GRAB~~ OPERATIONS AND PROCESSING LOG

Ship: REEFS I

~~Grab~~ Type: Koenig sled

Cruise: 03050

Station: P

Date: 23NOV03

Sample ID: Site 27 m

Time: JD 12:16 EST Z

Depth: 100 m m

Latitude: N

Longitude: W

Comments:

Processors:

WP# 116

Madison Swanson

Rose Bud

~~GRAB~~ OPERATIONS AND PROCESSING LOG

Ship: REEFS I

~~Gear~~ type: Koenig sled

Cruise: 03050

Station: 0

Date: 23 Nov 03

Sample ID: Site 28 m

Time: JD 209 EST Z

Depth: ~100m m

Latitude: N

Longitude: W

Comments: NW corner of MadSwan. Last site for this cruise. Seas are building 3'-5' now, at least

Processors: