

2005 Wavy

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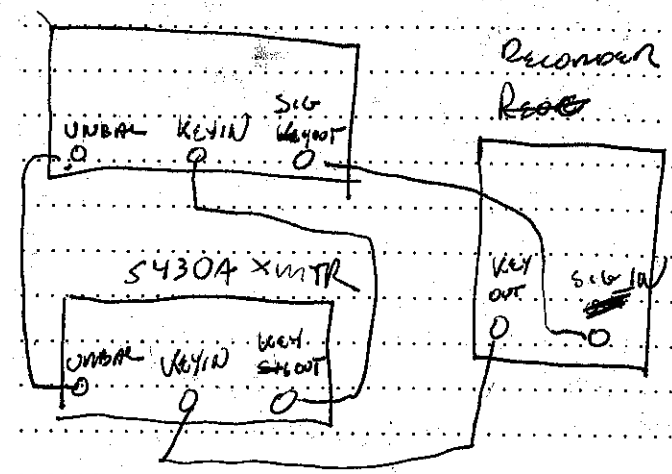
07293

Book No. _____
 Proj. No. _____ Road No. _____
 County _____
 From _____
 To _____
 Survey For _____
 Date _____
 Chief of Party _____

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Projects

5.210.1A RWR



7:00a - @ GK
 Eckerd College Docks
 Gresh Brooks
 Home 367-5521

3200

CHART SETTINGS

TIME BASE A 1/32 15ward * 10T
 B 1/8 sweep

CHART ADV = 150
 AC COUPLING ANALOG IN

5430A XMITR

4 PULSES CYCLES 3.5 kHz 100% PWR

RWR

00B 0GAIN 12dB 1kHz Low Cut 10 kHz High Cut
 1x Key Program RAW TAPL

DISSEN

88-0205

CROSS SECTION BOOK

EPC
 978
 500/777-1996
 1978

11/8 ATM - Canaville 0440

Janet Hearn

Gahagan + Bryant J.D. work for
Town of Jupiter Beach (Clay Bryant) 413/431-4408

Did work in Martin Co. in 11-93

ST LUCY INLET AREA
(12-15 to 12-105)

All work in state waters within 3 miles of coast
ACE positioning off by 1000 ft in 1978

Vibracores continued to refusal (5 minutes vibration)
Alpine in NJ did Fieldwork

Also ATM J.D. work at Sebastian Inlet

Sediment Characterization (based on compatibility)
Onshore samples collected in the Hutchinsons Pt. in
Martin Co.

Must water dredging is done w/ hopper

20 ft max water depth

12 ft max cut

cuthead head 1-5 feet for max cut

Stroke has 150 m max zone

- background turbidity unit measure ²⁷ 100% above legal
outside of 150m of side site
- cameras available

Turbidity monitoring 24/day - cut meters responsibility

8-10% fines - upper limit for fine content
200 sieve for 200 sieve fine limit

Beaches + Coast
Lettie Bergante(?) works for coastal photos

Shore Sampling
Only run 6-12"
Near Inlet had dinner sample directly

Photomicro Volume
- core lines 35% 100% coverage
- planimetry done w/ autocad

OLSEN + ASSOC - JAK 904 / 353-6114
ALPINE, NORWOOD NJ

Valid Badge
BILLY MCGINNIS

Reports available from Coastal Engineering Archives
at CE - Helen Tinsley 392-1477 36
→ 2700 albums

1300 FMP Titusville

Check out yard, look for launch point

1505 Broward Co.

Mark Cusley
Lisa Bahn

On and finding for engineering pay in 87-88
Recommend suggested for Commercial + Industrial
Sand core from Port Commercial Sand

ACE Nelson Cussey - 100% for funds

- ACE J.D. not adequate 20 offshore samples

- offshore samples needs to be J.D.

- Olsen J.D. provide study

- ACE J.D. full feasibility study

- Mark Cusley concerned about overlap w/ ACE

- We are working w/ ACE - trying to establish subcontractor
relationship

Broward Co had side scan + vibracores done

w/ Olsen Study

STATE OF FL. - ACE IN COAST OF FL STUDY

7 to 35' water depth

Core will come out w/ costs construct - recommendations in
m-25

Coastal Islands on

ACE subcontracting to extend s. portion of Commercial Jetty
630 ft 70s to be moved w/ Hopper Dredger

*PATRICK SHOALS

- need to be employed on board area

- side scan photography data available from
your study at ACE

Offshore Reefs from Indian Rocks to Patrick Shoals

(within 3 mi limit)
Need to understand Ground Truth Reefs (not water depth)

* SOUTH BEACHES - South of Melbourne Beach

- Repair Dune Blowouts

- Re-survey for Sand (Trench Hall)

- Curious Analysis of 4 Bottom Pits done by Olsen

FOR BREVARD

1) IDENTIFY FUNDING SOURCE

- PROVE NOT NET NEGATIVE ON BREVARD

2) COST-BENEFIT ANALYSIS FOR DOING WHOLESALE WORK
AS OPPOSED TO FARMING OUT

3)

IDENTIFY AREAS (IS FULL IN DATA GAPS)

County has 350K/yr available from Tourism Development
Trust

① 3/92 ACE Jax Report Recommending Full Feasibility
(WORK DONE IN LATE 80'S, SUSPENDED IN 87)

② S Value study from Olsen Engineering - working at end (1989)
Study shortcomings:
- No map 2D
- No Ground Truthing
- Inadequate Environmental Aspects

③ Coastal Technology Followed up Olsen work (6-92)
PHASE II OF OLSEN
- FEASIBILITY STUDY TWENTY BY MARK CROSLAND
+ TOM SMITH (ACE)
PERIOD CONSTRUCTION PERMITTING

④ FS signed w/ACE 6/93
TASK ASSIGNMENT DONE
ACE IS STARTING ON DELIVERABLES NOW
GO TO CORP FOR INFO
KLEIN 575 55 USED IN SURVEY

⑤ SOUTH BEACH MAR PLAN (11-93)
COASTAL MAR PLANNING + ENGINEERING
DUNE RECLAMATION

⑥ PORT CANAVERAL INLET MAINTENANCE
OLSEN + ASSOC. 2-24 12-92
BY KEVIN BODUS

Summer is BEST TIME TO WORK OFFSHORE (June, July, August)
SEA SURGE NOTHING 2-1 to 8-31

MARINAS

- * - PORT CANAVERAL INLET HAS MARINA CO. HAS 26' RANGER
- SEBASTIAN - TOUGH INLET - HEAVY FLOW CURRENT
- * - ST LUCY - GOOD FOR ~~SEAS~~ NAVIGATION (RT. PIERCE)
- N OF JUPITER AIR ARMS ALONG BEACH
- * JUPITER INLET RUNS ON ALSO

11-21

Called Ray Lukens
will send the
Photography

11-9-94

0830 mts. at Indian River Co. Commission

Don Donaldson - County
Cliff Sandtrich - City of Vero Beach
Jim Davis - DPW Director

- Beach Survey for Baseline Analysis
- State contributions to buy significant data

Indian River Co. is shallow + flat

ACE - abt to initiate Region III Coast of Florida Study
ACE will generate Data Base
DEP will maintain Data Base

ACE will do Bathymetric + side scan for City of Vero Beach
Coastal Planning in Indian River is Project Simons
- No master Plan?

City of Vero Beach has Federally approved nourishment program
making money References by in City of Vero Repeated Times

* Diggs - Auction Area Towards South End of County
Recreation is wild - it is occurring and (future thesis topic?)

map of Vero Shaded Area Showing Submerged Habitat

Amals Plan in '93 for County
- modifications clearly visible

Sebastian Inlet Tax District had 94 photos showing sand
within 20 miles of inlet showing hard bottom

* Easier to interpret aerial photos than Sidescan.

Samples taken in conjunction for permit apps for Reef
Project

250' transects
500' and

grab samples - jet probe (smaller sediment cores)

City of Vero Beach Restoration Assessment

1989 Feasibility Report for Beach Erosion Control
(89 ACE Report)

Map showing potential borrow Areas.
Feasibility Report for Beach Erosion Control
Indian River County FL (ACE 82)

1989

City of Vero Beach Restoration Assessment Report
1989

due to Coastal Planning + Engineering Inc.

Cliff Sandtrich has file index of all data City of
Vero Beach has (from late 1960's)

Commissioner Jim Adams comes into mty at 0910

- No money in Budget assigned to Don Donaldson or
Indian River Co.

Breakwater most affordable way of controlling wave action
- may take 100' back filled

Get copy of Fla. Gold Coast Fish/Dive map

Submersible available at Harbor Branch in Ft. Pierce

Smithsonian Outpost at Harbor Branch (Grant Williamson in
good contact)

NOAA WATERWAY CHART #198 From marine stores OR
FROM NOAA DIRECTLY (THASONS COAST FISH/DIVE)
WATERWAY CHART #198

HARD BOTTOM SHEETS ALSO INDICATE BATHYMETRIC LIMITS

SEBASTIAN INLET TAX DISTRICT

KATHY FITZPATRICK

407/727-5175

RAY LAROUX

Ft. Pierce is MAINTAINED AS A FEDERAL INLET

DEP PERMITTING CRITERIA MUST BE MET
(MATERIAL DREDGED - SAND REPLACEMENT)

FURTHER HEADING MAJOR ENVIRONMENTAL ISSUE
6MO LOBSTER SEASON BEGINS IN AUG.

10:45 Mike Darkenwick
Coastal Technology

11-7-94

Vero Beach - Palm Beach

Beach Restoration

Vero Beach - Indian River Co
St. Lucie

- S. side of Ft Pierce Inlet

ACE prog 1.2 mi S. of inlet to stabilize shoreline
min 100 ft thru 2020 at 10 yr intervals

male extension to south

high grading ACE 934 Study

Task Assignment for county

① Ft Pierce Shoreline Protection Plan (1993)
Section 934 Study

② Geomorphology + Sediments of the Inner Continental Shelf
Palm Beach - Cape Kennedy
Moultrie + Sabine (1971)
Tom 34 ACE

③ Indian River Beach Preservation 1988
Coast Engineering

④ H.C. Final Report
URL 1202L 761004
Borrow for Beach Restoration
Evaluation - Melbourne Beach
Deerwood Co. FL

⑤ South Symposium on S. FL. G.O.
Miami Beach Soc. March 3, 1987
(papers by Moultrie, Reed + Moultrie)

⑥ Broward Co. Beach Erosion Project
General and Detail Design Memorandum
Addendum
ACE 6-76

⑦ City of Vero Beach
Beach Restoration Project
Assessment Report
Coastal Engineering Planning
for Don Davidson 1-89

⑧ Ft Pierce FL
Shoreline Protection Project
Reevaluation Report
Section 934 Study
With Environmental Assessment
8-93

⑨ Port Commercial Inlet Management Plan
Draft 12-92
Olson Associates (Broward Co. FL)

⑩ Martin Co. FL
Shore Protection Project
General Design Manual
With Environmental Assessment
ACE 12-93 (Revised 6/94)

⑪ Feasibility Report for
Beach Erosion Control
Martin Co. FL
ACE 1985?

⑫ Beach Erosion Control Study
Martin Co. FL
ACE 1968 (Serial 1279?)

⑬ Beach Erosion Control (8-80)
Indian River Co. FL
Design Memo (C.A.E.)
With
Supplemental Info Report for the C.I.S

Ex. memo - Don Davidson - Vero Beach Constructors

Alpine - memo + Acquire 30x10 Vero Beach = 35,000 (1984) 1-2 days work

201/768-8000
Call McGinnis

Vibrocore Mike Clark 404/655-9582 - EXMAR MARINA

Clay Bryant
Gulcher + Bryant
Tampa

Speedy Recovery Rate in Construction

Ongoing Gulcher + Bryant Drilling in St. Lucie
Done in '74

Upland + Flood Sand in Inlet Same

6:00 St. Lucie Co. Mtg

Richard Bouchard
Don Brown - Director of Public Works

Spending Co. Money on tanks that they feel should probably be
pulled up by the state.

-Coordinate w/ Mike Dushinski

see 111

see 734 reports

on per Mr. Brown

① Nobody has come up with solution other than
beach replenishment through sand placement
other schemes don't work

② St. Lucie Inlet cannot Truck Haul for Ft. Pierce
Marina

③ County has ^{three} problems w/ permits

④ They pulled in "Strapdown" placement

⑤ ACE will do 2.3 min beach replenishment

600000 for 2000 yds
sand being ripped in hope of advancing ACE's program

⑥

Ft. Pierce Inlet Mgt Plan
Coastal Planning - now in Final Drafts

Caprow Storm - offshore same

⑦ Ocean Village Resort Cords 2.3 min S of Ft. Pierce
Inlet - Private Dune Replenishment Sand same as
local pit.

Ft. Pierce Inlet Sand Nourishment
Ongoing w/ACE

⑧ Longer Term 2.3 min S of Inlet w/Comps

⑨ Inlet Mgt considers Sand Bypassing across Inlet

* Ft. Pierce Inlet Management Plan
submitted to St. Lucie Co by
Coastal Planning + Engineering 1992

* General Re-evaluation Report Ft. Pierce Harbor
Deepening Project (94) Tony Scarborough ACE-34X

Port Improvement Project

Co. will put to Voter Referendum for Port Development

* Mr. Brown suggests water suggested recharges for
support letter

Co wants to replenishment on as needed basis + be
recharged by Fed's - need ACE permission

11-10-94

800
0815+ mtg w/ Lee Wilberman Co. Eng
Don Hillman DPW Director
Don

Greg Fleming - County Surveyor
ATM is County consultant

Town of Jupiter Island has done offshore studies
w/ Galtsoy and Bergant

- 4 Mile Beach Reclamation in conjunction w/ ACR (ACR consultant)

- 3T Lure
- Jupiter Reclamation Plan
- No Budget Distinct
- County responsible for effort

- Jupiter Island erosion concerns
40500 section of Road w/ Reclamation on Jupiter Is
(S. Beach Rd.)

- Most preliminary work self funded by county
D20 came in w/ budget funding

- Some ACR trucks were self funded in order to expedite project,
- Co did Environmental Assessment, Core Boring, Balcony Access

Board did special assessment for 1/3 costs with
1/3 contribution to property owners
1/3 public taxes

- Worked w/ Lawrence Snyder for Beach Projects
- Greg Fleming does GIS work for County
Check w/ Greg abt platter

- Contact EPA abt GIS system (Greg Fleming will have contact info).
Southern Resource Mapping in Miami
2D partial Digitalization

11-10-94

1200 Gary Zullo - Julie Vann EIT
Talk abt work already accomplished

- Summary of Brevard Co. Sand Survey
- Olsen Brevard Co

- EIT did geotechnical work
- 62 vibrocores taken by Olsen
- Samples collected held by EIT
- Alpine did coring

Alpine

30 Vibrocores off of county Palm Beach Co.
40-50K for Vibrocores

- May need 15 tons of dead lift to lift cores out of sediment
- need 25' of clearance for 20' vibrocores
- critical capacity is dead lift capacity
- Extreme Sediments are younger than compacted
- Alpine Vibrocore uses pneumatic hammer to
drive core

- Typical Vibrocore in Brevard is 15-20'
- Be sure that system has capacity to do work
- do numbers to see what it will cost + check
Dead weight lift.

- Alpine can recover 5-12 cores/day
- All work done on Thursday basis
- Budget \$1500/core

- Klein 500 KHz sub scan 50-60K
2.5 KHz sub bottom system 80-100K
EG & G Unibeam

Klein has automated system
- am to record everything on disk

Gary Zullo has 6-8 hp Vibro corer

- Uses Dolphin (EIT Boat) for offshore
\$1000/day incl food fuel etc.

SS noted from Glen Yully a Alpine
25-2700 ft for central

Seismic - Alpine - Unibeam \$300/core
Coastal Curacao

FIT has lab to repair equipment
Klein has geomaterial

1-2 ft resolution w/ Undercon

GARY ZAPUNO has original ECOM sparker records
Brennan co has sidescan, Seismic, 62 cores

* FIT has many ECOM cores
need to be worked into study

FIT has tried to compete for ACE Geotechnical Work
we will be competing w/ FIT for ACE work

Arling Salinger - Marine Geology Branch
has Fed money

- Curtis always go to low bidder

How can we work w/ FIT

- Jones Analysis
- Stratigraphy

Coastal Sediments 91 Parker Serran

Pleistocene - Holocene

Therapography of Pleistocene from seismic record

Shoal Part of channel seem to be structurally
controlled

Most shoals are N-S or oblique orientation

Many shoals constructed of carbonate sands (coquina frags)

Inner shelf areas similar to mid-Atlantic area

30-50% CO₂ off of Commercial

99% mud and oolite dump site

CO₂ content increases as you go south

Coarse SD fraction is almost all CO₂

Early Pleistocene has been merged Brenard & Beach Sds,
at Sebastian Inlet

Major sed thickness map

Coastal sed 91 has map

Transverse vs East Transverse

Dunspies have spools from Commercial Towing Basin

FIT has 100 samples from off of Cape Commercial

Shupak spray loaded grab samples used for samples

Grab samples collected to depths of 70-80 ft, 15-17 mi. ^{out}

Lots of fine grained sediments come out of Brenard Co.

Sebastian Inlet Tidal Inlet may provide sand

Need all volumes from Brenard County Ocean Survey

→ Geomorphology and Sediments

of the

- Inner Continental Shelf

Cape Commercial PL

Field & Dunes

Peak view 42

3-74

Sand, Gravel & Heavy Mineral Resources

Reinterpret of Surficial Sediments

Phase II and Final Reports

Wooten et al - USF

- may have from
Gary FIT

Cape Mican - Cape Commercial

FIT Anchorage - Melbourne Harbor

FIT has Sebastian Inlet Wave Data

Check Wave Gauges for CERC

FIT has 250 data sets from SAX-MAT

* Need to Inventory FIT cores

Location, Depth, Did they reach Pleistocene

Cape Shoal - FIT Piece

Shoreline Shoal

100% Carbonate gravel

- TM 54 Geomorph, similar structures and sediments of
the Florida Inner Continental Shelf, Cape Commercial
to Georgia

11-28 SAMPLING T2.A w/ CHEN

12:20 Arrive at Marks Lg in Brevard Co

Spot Loc 1 on Top of Dune

Loc 2 at High Water (just below camp)

1256 Begin to collect core 1

Pound Core 1 in 30 1/2 5" above gfc

1350 Could not retrieve Pipe,
but Pipe Broke Ladder

Popped Rued, Brakes, Engine Member

Move off to Goring 2

Will return later w/ new ladder

1430 Pound B-2 in to 30" showing
Tide many, Pipe Pipe

Go into Pan for Supplies High Tide at 1530

1650 Run to Site

Finish Drilling B-2

Plumb 10' core

18" pipe above gfc

23" Depth to SD w/ WC

1709 Retrieve B-2

34" escape at bottom

Core was wet

1736 Recover B-1 core

SD full to bottom

Wrap w/ My Trail

1800 P/U + go to hotel

1445 Arr at Hotel

11-29 0700

Load Trunk + Head for Cape w/ stops at

Putnick Monument Area

Tulle Pix at Putnick

1054 Arr Bonifas at A.F. Sta.

Escorted by Jerry Smith

All back Army removed within last year

Mark Mercadante

853-6823(?) Knows Army History

He has 21 km of beach history

Harlem Beach has Cape Commercial Remnant

Ditch as per June Remnant

Core Taken at Sec. 12 in False Cape

Quail (Km 26)

1145 Begin to set up for B-3, Jan Remnant in site
at Km 27

1235 Finish Drilling B-3

9.5" inside

28" showing outside

High Tide at 1530

Begin Recovery

1330 Recover B-3

SD 12" from Top

Full to Bottom

P/U Run HIT to Bonifas

1400 LV Cape Commercial for Pgs. w/ Chen

AND METER STICK

CRESCANT WRENCHES

TO SUPPLY LIST

1-4-95

1300 Arrive at Sebastian Tax District w/Chen & Brad Hargis
Meet w/ Susan Herbold.
Review Docs

WX - Rain steadily

Supply Susan w/ letter saying that documents

- Inlet District involved in litigation w/ Dunsmuir homeowners
- ~~Sand Temp~~ - well down 125-150K yds easily other year
- District believes Inlet itself is in equilibrium
- Coastal Tech sediment samples

need to be reexplained - too optimistic

Susan Herbold aka 724-5125
home 724-1203

1410 Lu w/L, Susan will copy

1430 Arr at Mark's Landing to take GPS

Reading for loops: 1, 2

B-7 PDOP

7.4

1

RAINING MINIMALLY

B-1 PDOP 5.3 HDOP 3.2
VDOP 4.2 TDOP 3.9
BDOT 162 m/sec

B-1
27 57 22.3
80 30 07.5

B-2
27 57 21.9
80 30 06.9

1500 Repeat measurement
w/ 4 SV's and

B-1 27 57 20.2
80 30 08.1

Lu site

1500 Arr Patrick collect Anomalous B-1
Sample from Surf

1600 Stop Raining
Set up for B-4 coil at
S Patrick shops

B-4 Location

PDOP 3.3

HDOP 2.0

VDOP 2.6

TDOP 1.9

BDOT 165 m/sec

TRACKING 4 SV's

28 11 41.1 W

40.5 W?

40.5 W

80 35 36.1 W

at 1707

at 1707 N/3 SV's

Argued at 1706 26T

Tropic

36.7 W

AT 1742

28 11 39.2

4 SV's

80 35 39.2

GPS 3D

BAD

133.6

42.2

17.7

69.8

BDOT 154 m/s

1750 Lu Site to pick up Xerox

Finish Core B-4

Recover all but 18" at Top
15" ± from bottom

Bottom of core bbl. is severely splintered
Probably hit beachrock on way down

1-5-95

0720 P/U at Hatch w/ Ben + Higgins + Chen
Buy Supplies
Scout Beaches

1000 Set up for IR 2
Appx 2000 ft. S. of Sebastian Inlet Bridge

IR 2 LOC AT 1015

PDOP 3.8

HDOP 1.5

SP

VAOP 3.5

TDOP 2.7

BDOT 178 m/sec

TRACKING 6 SV's

27 51 05.2 N

80 26 36.0 W

679,809.271

~~679,809.271~~

~~679,809.271~~

~~679,809.271~~

1278,939.652

at 10:19 at 10:20

06.1 6.0

36.3 36.0

All Track 6 SV's w/ low PDOP's

Good Erosional Scarp Development on Beach
Wx CAUV Strong N. Wind 15-20 Kts

1100 Met Refusal after 1 hr pounding rock
42" stuck up
37" inside pipe

1133 Return Core

P/U at site, move to next location

Core bit was strongly deformed on bottom (oval shape)

took pictures

Stopped driving core after 1 hr when refusal was met

1145 Arr at IR 2 Site Wabasso Beach

Set up for Core

1150 Begin Drilling (Ben + Chen - I go for Gatorade)

1210 I return to site, core is down to 10'

11.5" sticking up

13.5" to F/ sediment

IR 2 Pos

PDOP 4.6

HDOP 2.2

HDOP 4.1

TDOP 3.4

BDOT 73 m/sec

TRACKING 5 SV's

2745 48.4

8023 49.5

at 1225 local

1235 P/U, leave site, 12-15' of beach duff
at IR 2 site

1300 Arr at IR 3 site next to Pungwa Canyon
Center beach club
Set up for IR 3

1307 Begin to Drive IR 3

PDOP 3.8

HDOP 2.0

VAOP 3.3

TDOP 2.5

BDOT 153 m/s

Tracking 6 SV's

27 38 41.0 40.8 42.1

80 21 09.1 8.6 10.7

at 1312 13.3 1577 (PDOP 4.3)

1342 Finish Drilling IR 3

18" pipe shaming

18" to F/ sediment

Core Split At Bottom for Recovery

Never recovered bottom 8'

Abt 3' SD missing from bottom

Out 8' 5' recovered

5' recovery

1425 P/U to site

194 910.955
SP ~~681,981.025~~
~~1,247,017.254~~
1,247,017.254

709,547.348
SP ~~709,547.348~~
~~1,203,927.947~~
1,203,927.947

1522 Arr at Co Park at 5. End of core
Met Core

AT 1541

POOP = 2.8

VOOP = 2.1

HDOP 1.5

TDOP 1.6

VDOT 137 m/s

FRACKING 6 SV's

27 33 40.8

40.7

40.6

40 17 21.5

21.6

1542

~~40.6~~
1543

1556

Stop Pumping

Met refusal, afraid of cracking pipe

38" sticking up

30" to T/sediment

1606 Recover Core

Bottom 10" of core is split,

cut off

6'9" Total Recovery

1645

Begin SL-1 on N. Shore of

St. Lawrence Inlet

Beach about 1/4 mi N of Inlet entrance

Meet w/ Dan Guffer Park Mgr

20.5" sticking up

15" to T/sediment

Recover entire core, lost 2" from bottom 15" from top

AT 1716

POOP 3.2

VOOP 2.6

VDOT 150 m/sec

FRACKING 5 SV's

27 28 29.3

40 17 26.7

1719

HDOP 1.8

TDOP 1.7

29.0

26.7

1719

28.5

27.3

1720

1727 Finish SL-1 P/W at Site,

w

Checked out Beach Adjacent to Hake St,

Found adjacent property was unimproved

1830 Rtn to Hotel

AT 0842

POOP 2.5

HDOP 1.6

VOOP 1.9

TDOP 2.0

2.7

VDOT 189 m/sec

FRACKING 8 SV's

1-6-96

0800 Arr at SL-2 loc, 1/4 mi S of Ocean Village
Condo Complex
Try take core, must refusal after 3'
Move off 5' closer to shore & try again

At 0853

PDOP 2.8 HOOP 1.9
VDOP 2.2 TOOP 1.6
Bdot 99 m/sec

Tracking 6 SV's

27 26 13.2 at 0855
80 16 44.3 13.2
44.2

28" sticking up
28.5" to T/sediment

At 0913

27 26 14.2 (PDOP 4.7)
80 16 45.8

w/ 6 SV's

LV Site at 0920

1000 Arr at SL-3 site
Blind Creek Beach N of Am Station

20" sticking up
24" to T/sediment

At 10:15

PDOP 3.4 HOOP 1.7
VDOP 2.9 TOOP 2.1
Bdot 101 m/s

Tracking 6 SV's

27 21 44.2 44.5 44.7 S
80 14 42.2 42.3 42.3
101.2 101.8

1045 Arr at SL-4 location
Hawland Park

18" sticking up
22" to T/sediment

PDOP 3.0 2.7 HOOP 1.5
VDOP 2.5 2.2 TOOP 1.4
Bdot 89 m/sec

Tracking 6 SV's

27 16 30.2 30.0 29.9
80 12 20.2 20.0 20.0
at 11:12 11:13 at 11:14

Break Hackman Retrieving Core
Finish at site at 11:22

12:22 Arrive at M-1 location, beach N of
St Louis Inlet
Same Arrangement (?) Outcrop
Will probably take short core

1240 Finish driving to refusal
24" sticking up
31" to T/sediment

At 1238

PDOP 3.6 HOOP 1.9
VDOP 3.0 TOOP 2.2
Bdot 106 m/sec

Tracking 6 SV's

27 12 21.3 20.9 20.4
80 10 07.9 8.0 8.2
at 1239 at 1240

28 05 20.8 21.0 21.6
80 33 53.6 53.6 53.8

1500 hr at M-2 Hake Sound turn
Set up on Beach

At 1524

POOP 2.6

HOOP 1.6

VDOP 2.1

TOOP 1.3

BDOT 103 m/sec

Tracking 6 SU's

27 05 24.1

24.0

27.0

80 07 37.0

36.0

38.9

1526

1527

Met Refusal

w/38" Above Gnd

-28" TO T/SO

1550 French M-2

(could) not get to beach N of Hake Sd MWN

Went to Blowing Rocks, No Beach Access

1650 hr at Lc for M-3 after much searching

Set up to Cuv

22" Sticking up

17" TO T/SO

Cut 18" off Bottom

~~1730 P/U leave site~~

POOP 2.6

VDOP 2.5

HOOP 1.6

BDOT 77 m/sec

TOOP 2.0

Tracking 6 SU's

at 1725

27 01 14.1

27 01 13.4

12.9

80 05 43.4

80 05 42.6

42.1

at 1725

1726

27

P/U Lc site at 1730

Spoke w/ Mr French - Local Resident

He says M-3 Beach was Remanured
5 years ago

1-26
0830 0830

W/ Anne Wiggins
Dan Hill at Carl in St Pete

1- Dan's draft copy of Negotiated Agreements for SD rights have addressed to Governor

* 2- Show In Kind Breakdowns for work already accomplished
Need to sell pump
Need to demonstrate matching monies - break out some
MMS sells to be management, & other In Kind Donations
(F-10 etc.)
(partnerships)
- Emphasize that project is partnership
& show benefits to Fed Govt due to our
in kind subs.

* Which beaches have been done, how much it cost
Don't need inlet thru Technical Info - shows
interested in state perspective

Talk about migration of common areas offshore

Don't call it joint - Co-operative Partnership
MMS - Office of Envtl Activities &
MMS - MMS

So Study in Support of MMS and
Initiative

- Re Do Quarterly w/ New Titles
- Don't need ICD paper
- Don't use MMS money to purchase GNS equipment
- Don't use MMS money for field equipment
- difficult to find
- any big ticket items are hard to find
- will have to revert to MMS
- MMS MMS Technology Center
(under attack) - funded by Bureau of MMS
linked to University of MS

Robert Mung

410/293-6434

Call Clay DeWitt

W/ Next Week S. Adams
Papers

2-6

Lo Hotel at 0700

0830 Arr at Loc for B-5
after splitting Distance between
B-1 and B-4

Vibrometer

Wx CALD Temp 45° NE Wind 15-20 kts

21.0 21.3
80.33 53.6 53.6

AT 0842

POOP 2.5 HPOOP 1.6

VOOP 1.9 TOOP 1.7

BOAT 144 m/sec
Tracking 75V

28.05 20.8 21.0 21.3

80.33 53.6 53.6 53.8
at 45 at 46

Vibrometer 3' but Ganche rock
to reference

0925 P/O at SDC

1040 Arr at Loc for B-6
Burstel Pond

POOP 2.8 HPOOP 1.4

VOOP 2.4 TOOP 1.5

BOAT 102 m/s

27.54 TRACKING 6 SV's
08.7 05.5 5.3
80.28 12.2 12.0 11.7

1115

16

17

1120 P/O at site Jan 3-6

Recover 5 ps Core

Advance Truck to Refusil

1130 Lv Site

3-6-95

0545 Lv for COEL lab at UF/600

0930 Arr at Lab

Meet w/ Helen Tinsley - Librarian

1245 Lunch for Day

Return to Hotel

3-7-95

0730 Arr at COEL Library Begin Reviewing Articles

1230 Lunch, go to Hotel

3-8-95

Rainy heavily

~~2745 Arr~~

0745 Arr at COEL begin work

Do lots of typing and map review

9-12-95

0800 Prop Boat - Curlew Shell

0920 Launch at Cape Commercial - Jetty Rk

1070 CAVU 65°

At sta for Vibrocane

28 25.932 W

80 31.887 W

6' sucl 10" pd

TO rough to core

No Water Visibility

Return to Inlet to pick up

Grab Sampler

1140 Rtn to Commercial P/U grab Sampler

1210 Depart for Sampling Transit

FGS T3 27.2

16.44 16.6N 80 22.7 W

Sample 3

1751 At sta FGS T3 SAMPLE 3

28 20.559 N 20.3

80 29.676 W 29.6

44' to bottom w YSI

PH 8.18

Turbidity 6 ?

TO 28.7

O₂ 4.26

Cond. 64.46

Sal 35.9

SW 23.7

1840 At AT FGS T1 STA 3

28 21.600

80 29.745

PH 4.3

O₂ 3.99 mg/l

25.48°C

Cond 54.61

Sal 35.9 SW 22.6 TS 0.38

1600 24 21.613 N STA 4 FGS T-1

80 30.712 W

4' Water Vis.

~~6.8~~ Swell 6-8' Swell

YSI
PH 8.32

28.70

O₂ 3.98

Depth 28.6

Lu Station at 1610

Cond 54.54

Sal 36

Stn 229 mm Turbidity 4

1616 AM FGS T2 STA 4

30.82

20.83

PH 8.33

28.8

O₂ 4.15 mg/l

C 54.52

Sal 36

Stn 231

Turbidity 2

Depth 20.8

1635 AM FGS T2 STA 5

29 20.6 N

80 31.42 W

PH 8.33

28.70

O₂ 3.70

54.55 Cond

Sal 36

Stn 236

3 Turbidity

22.6 ft

1718 T1 STA 5

24 21.7

80 31.782

PH 8.34

28.60

O₂ 4.15

Cond 54.49

Sal 35.9

Stn 230

Turbidity 2

41.8

1733 Batteries On 6th Gate Off
Head into Port

2000 Arr at Dock

9-20-95

1000 Lr At Camp and
After refueling + maintenance

28 21.6 W

60 32.6 W

1138 Arr in Station

FGS ~~F1~~ T1 STA 6

PH 8.2

26.8°C

O₂ 4.19

Cond 54.52

Sal 36

Ch 2.13

Turbid 3

Depth 41'

1200 Arr at FGS T2 STA 6 20.8

PH 4.31

O₂ 3.94 mg/L

Cond 54.45

Sal 36.0

Sample at end of YSI cable

Not on bottom

Burge appeared to be dumping

appx 2 m E. of sample loc.

1300 Arr at FGS T2 STA 7

20.75

34.02

PH 8.23

O₂ 3.60 mg/L

Cond 51.49

Turb 1 NTU at Depth

Sal 33.50

Ch 1.87 mg/L

Turbid 11

Depth 44.6

5 NTU @ 34 ft

20.8

Arr at F1 Sta 7

1330 GPS Problems

Go into Port to Electronics Shop

1500 Lr Back after GPS Repair

1540 Arr F1 STA 7

21.8

34.0

PH 8.25

28.4°C

O₂ 4.2 mg/L

No differential GPS
Repair did not fix problem

47.625 cm

31.00% Sal

Ch 1.68 mg/L

Turb 3 NTU

36.8 ft

1650 Arr at F1 STA 8

21.8 W

35.0 W

PH 8.29

28.8°C

3.55 O₂

Cond 49.38 mg/L

Sal 35.9

Ch 2.27 mg/L

Turb 18 NTU

Depth 39 ft

1612 Arr at FGS T2 STA 8

20.8 W

35.0 W

PH 8.32 28.8°C

O₂ 4.19

Cond 54.47 mg/L

Sal 36.00%

Ch 2.42 mg/L

Turb 2 NTU

Depth 37 ft

9-20

1716 20.795 An T40 to STA 2
28.734

PH 8.36
29.2°C
O₂ 4.6 ml/l
54.45 can.

Sal 35.8
229 mm Ch
Turb 2
Depth 34.9
Net on Bottom

1734 T₂ STA 1
20.731
27.186

PH 8.37
O₂ 4.66
Can 54.18
Sal 36.0

CH 247
Turb 1 NTU
Depth 34.8

Net on Bottom

1754 T₁ STA 1
21.607
27.205

PH 8.37
O₂ 4.65
Can 54.46

Sal 35.8
249 mm
Turb 1 NTU
Depth 34.6
Net on Bottom

1810 T₁ STA 2

21.743

28.416

6 fs Run Out of Balts
at Station

PH 8.38
O₂ 4.67
Can 54.27
Sal 35.87

CH 280 mm
Turb 2 NTU
Depth 35.8

Net on Bottom

1817 Start 1N

1923 Arr at Dock

9-21-95

16.7N 27.2W

0900 IN WARM L. BACK

1024 AL FGS TS STA-1

16.691 N

27.176 W

PH 8.35

O₂ 4.34

Cond 54.44

Sal 35.9‰

CH 242 m

Turb O

Depth 43.6 ft

Not on Bottom

1054 AL FGS TS STA 2

16.700 N

26.400 W

PH 8.36

29.0°C

O₂ 4.49 mg/L

Cond 54.37

Sal 36.0‰

CH 238 m

Turb O NTV

Depth 44.8 ft

Not on Bottom

Visibility 7.8 ft

1116 AL FGS TS STA 3

16.704 N

29.504 W

PH 8.33

28.9°C

O₂ 4.24 mg/L

Cond. 54.52

Sal 35.9

CH 246

Turb 1 NTV

Depth 45.4 ft

Not on Bottom

1123 AL FGS TS

STA 4

16.665 N

30.679 W

PH 8.33

28.7°C

O₂ 4.16 mg/L

Cond 54.5

Sal 36.0‰

CH 249

Turb 1 NTV

Depth 46.6 ft

Not on Bottom

9-21-95 An FGS TB STA 5
1155

16 653 N
31 693 W

pH 8.33
28.8°C

O₂ 4.14

Cond 59.4

Sal 36.0‰

CH 253 μm

Turb 2

Depth 46.2 ft

Not on bottom

12:10 An FGS TB STA 6

16 702 N

22 693 W

pH 8.34
28.8°C

O₂ 4.16 μm/L

54.36 Cond.

35.9 Cond Sal

250 μm CH

Turb 6 NTU

Depth 47 ft

12:37 An FGS TB STA 7

16 700 N

33 901 W

pH 8.33
28.7°C

O₂ 4.05 μm/L

Cond 54.31

Sal 35.8

CH 252 μm

Turb 6 NTU

Depth 42.6 ft

Not on bottom

9-21-95 An FGS TB STA 8
1251

16 717

35 011

pH 8.31

O₂ 4.19

Cond 47.44

Sal 30.7

CH 159 μm

Turb 43 NTU ?? 2 NTU at 36 ft

Depth 41.6 ft

12:56 p/u + Head in

14:00 An at Dock

16:45 An at FIT

Meet w/ Barry Z

100 cores in boxes

many unsplit cores

1 GK to box + describe
w/FIT Cond Students

Need to coordinate w/ ONE Demo
18:33 Leave FIT for FLH

10-13-95

Meet w/ Harry Andrews @ Mooring on Canaballe
for Dangle Present

Observe 555-100K SW Fishers UWAT

HARRY SAYS UWAT IS 8-9 yrs old
will sell entire unit for 23K

Saw some old 100 kHz records
Seems OK

1555 Go up 6 ft surf to rough to tow fish
Go back to Bay - will test unit in
protected water

Data OK

but no provision for DAT

No provision for inputting Loran - GPS.

10/20 Took w/ 300 Fishers

1-31-96

Samuel Deiner

Joe Dangle et al
Jimmy Reynolds from ORN

1000 Got GPS differential system for
communication system, could not get
to plot

ORN Chup Deiner

1.5 mi from Day Island Reef Bays
EAC Recorder has software bug
would not accept data

50 m full scale vertical
St Marks inside @ 30 ft, no
penetration below St. Marks

Ideally TVG should start at Bottom

5 Minute Time marks

10:28 Chup

E. End of Day Is Reef
Course Change

1036

2952 1210
84 26 2440

w/ differential

1040

29 52 51, 3780 843
84 26, 043

1046

29 51 4540
84 25 7771

Valid deep reflection

1050

29 51.173

84 25.624

1055

29 50.887

84 25.885

1100 101

29 50.474

84 25.977

1105

29 50.202

84 26.074

lower fish to 8' tow depth
see record.

more detail visible

1120

29 49.176

84 26.427

Approach Hump Wilson ledge

Deep to 3 kts.

Multiple Viscible

1127

29 48.623

84 26.527

Coming Out, Saw Irregularity in
Water Bottom on Reef

Generally, Reflecta Channels well full
apart while transiting hard bottom

1132

29 49.103

84 26.225

Cave ahead

1137

1137

29 49.193

84 26.142

Bedding possibly visible
w/ High Resolution

all w/ differential

Sens Picking Up - Sens Hump
Visible

1143 Thrust Reef w/ Tunny Bank

29 48.987

84 26.389

Generally, you can see signature changes
if you know what to look for
Difficult to pick up deep sections &
know what you have

11:50 SWAP OUT TO BOOMER

1216 START UP BOOMER

29 49.1001

84 26.6510

1245 Could not get Boomer to fire.
Began to hook up Silescam

1250

29 48.709

84 26.398

1 channel on Silescam not coming through
Need to pull up fish & check connector
SS shipped w/ improper cable.
Will only record 1 channel at a time
but will not work w/ single channel

1316 Began Our Acoustic Profiler

w/ EPC Recorder

Had problems but needed to tie imbalanced
inputs together

1332

29 48.786

84 26.555

5 ms/div

5 ms 2 ms funnel time
10 feet

1332 Cross feature

1-31-76

Cont. not turned down
Record quality degraded as heard

11346 29 48.905

44 26.475

Course for full reef

11341 Pursued Reef

44 7.82

26.472

11349 Saw Hill

44 5.010

26.476

11355

48.271

26.520

11357

Purs Reef Mark
Possible Dump off

11400

Return to Reef
Acoustic Profiler out for 5 days
Subsurface Data - not Bottom Type

48.945

26.511

11402

11407 Hook Up EDO Chart Recorder

EDO recorder no Barker Stylus
Belt should be changed once per Day
Recorder makes marks on Paper but
no useful data put, Daily need new
Recorder

11432

Tried Second EPC Unit
Could not get second EPC Recorder
working
Kept getting somewhere not engaged flag.

11455

Got call from Master
Reset Caps in Bunker

11530

Could not get Bunker Working
Heard into port.

Mental Notes

Bunker

57

3/14

Day

WK

125 w/Recorder
400 w/o Recorder
560 w/o Recorder
300 day work

Mo's

and

under

(1 day allowance)

2-10-95

Delivered to Education Counselor at CPD

1400 Took 3 guests from Smithsonian to Wilkulla

Ann Bay
Teresa Estera

1400 Put her off

4-11-96

Suncoast Cruise w/ Joe Bonagline

0854 Lu Daell

1300 Can't get someone to walk
Put out Trawl

6-13-96

USGS Bunt
Meet w/ Ron
Ask what

- 850+gas for boat, check gas consumption
- check vibration vibrometer. Apparatus
Recovery
WATER DEPTH
TIME ON STATION
- GPS w/ Amax output + D.P. receiver
- Boomer system availability
- Boat Availability Dates
- OVERNITE Accommodations

FOOD?

FACILITIES?

DIVE SUPPORT?

CRAB SAMPLING
OVERNITE BOATWORK

SEASIDE, CONCRETE

6-14

0700 meet at Hotel, Go Out to R/V
Gilbert

John the Engineer
Terry Kelley
also Maria Huelbert - Bulakun
Shogun Rep? Fred Ziegler
Carmel Page

Vibrometer

60-80', up to 100% recovery

Crab cone catchers

Don't need to put anyone in water
+ 20 minute station set up

GPS

on board w/ Amax output

OVERNITE

Sleep 3-4 for 1-2 miles

Has Haul, Dive support

Crane for Crab sampling

Cost

3 x 8 7/1 Diesels

32 Kts top

24-25 Kts cruise

Cost

850+gas 75-80 gal/hr for cruise, avg 150/day for
could work something out w/ equipment fuel
Supply and food, etc.

Availability Dates

3rd wk in July?

Seismic equipment in TX in July
Vibrometer Available

1 wk in July

Nothing scheduled for October

Best to wait for Oct - all equipment
will be available

SPC 3100
available for
Xmas

Paragon 15 3100's behind

USGS has 070 recorder 8500

1500 meters
070

etc 9000 used as backup -

Call Dan Wessing at 0365

talk abt EPC 3100, 3200, 0300
availability + GAS inputs

Additional Fuel Tank being put in

Went out for 1/2 hr in channel, but 35 kts
+ came back in

check in w/park at 6:30.

7-10-96

0630 LV Hotel in Colon Beach
Stage for push cores at Carriacou Inlet

1st Core will be B-7 B-7

0718 Arr at B-7 low

Temp 27.8, HIGH SWL, 2-3 ft Sand
to bottom

Sta	GPS time	Position	Tracking	±
B7	8:35?	Lat 28° 23' 52.9 N Lon 80° 35' 80.0 W	7 SV's	300

10' Pipe, Drive for 54 cm sticking up
52 within 22 cm of top

0853 Finish B-7, lots of water in Core

0935 Arr at B-6 low at Candy Park

B8	GPS 9:44:52m	Lat 28° 20' 27.0 N Lon 80° 36' 46.3 W	7 SV's	± 1000
----	--------------	--	--------	--------

Differential would not settle down
1006 Finish driving core

10' Pipe

48 cm sticking up

52 2 cm from top

B9	10:49:23	Lat 28° 18' 9.96 N Lon 80° 36' 50.6 W	6 SV's	± 1000
----	----------	--	--------	--------

Moved to Refound

103 cm sticking up

50 to 63 cm

1103 Finish Refounding

1125 Pick up SHV Site

B 10

12:58:00

Lat
Lon

NO SATS

1300

~~B-10~~

B-10 mostly refusals
1.5 m above and
Sun is 1.41 m down
Anastasia Clust on Beach
Sunset core TD in Anastasia

7-16-96

1630 LU Hurler p. B-11

B 11

17:05:32

Lat 28° 11' 17.4 N

Lon 80° 35' 34.8 W

Tracking 6 SV's $\pm$ 300 ft

1720 Finish

advancing B-11

Loc in 50m N of condo scull on
Open Beach

Anastasia Outcrop visible on surf 50 m
N of Loc

164 cm Pipe sticking up

SV 128 cm from top

TD in Anastasia?

1605

Begin B-12

50m N of Stem Driv W of Condo at
junction

B12

17:06:58

Lat 28° 09' 13.0 N

Lon 80° 35' 01.8 W

Tracking 7 SV's $\pm$ 300'

1820

Finish Drawing B-12

82 cm sticking up

Sun is 58 cm from top

Anastasia Outcrop 75 m S of loc
in Surf

Boulder TD in Anastasia

1907

B-13

Finish B-13

in Anastasia

145 cm sticking up

SD TO 108 cm

B 13

18:59:56

Lat 28° 06' 53.5" N

Lon 80° 34' 24.1" W

Tracking 7 SV's $\pm$ 300'

B14

19:44:09

Lat 28° 01' 52.8" N

Lon 80° 32' 25.3 W

Tracking 8 SV's $\pm$ 300'

65 cm sticking up

45 Top of SD is 45 cm

2-17

0630 Cu started
0730 Au at B-15 line

68 cm sticking up outside
SD is 43 cm inside pipe
Lost 59 cm off bottom on extraction

07:32:59

B15

Lat $27^{\circ}59'17.2''N$

Lon $80^{\circ}31'05.5''W$

tracking 7 SV's ± 300 ft

B16

08:15 @ location

08:22:04

Lat $27^{\circ}56'10.7''N$

Lon $80^{\circ}29'24.7''W$

tracking 6 SV's ± 1000 ft

52 cm sticking up

SD is 36 cm down

lost 84 cm upon retrieval
(all below water table)

0845 P/V + same site

B17 noon

Drags on Topo Cone

Put cone in opposite proposed wave
gauge location, in muds (F-15-Turtle)

Recovery Pit pulled from Inlet District on
site.

B-17

99 cm sticking up
31 to 76 cm

Lost 5 cm from bottom on Recovery

Tree Overhang at Cu
Took GPS reading at ^{water} treatment plant
location

B17

10:21:53

Lat $27^{\circ}51'55.5''N$

Lon $80^{\circ}27'03.2''W$

tracking 5 SV's ± 1000 ft

8-23 Boat Check

1715 Arr at Dick Beyer Marine at S&S

No one at all

Check Out Solution 30' Tugan

Looks clean

Cockpit 4.1

Has A/C but no ~~boat~~ genset

Not really enough Am in cockpit to
work + have genset

Twin Engines

hooked at Bridge, Unhooked at set
anchoring A-Fire - Dunt

Took Pix

New Hoses + A/C

1630 Left Site

8-24

1400 Arr at Cannibal Creek YH

Inspect Windy Gale at W. 17

Boat looks to be in good cond w/ ~~no~~
w/minimal rust

Only 1' of Freeboard (bunthole) w/o railing

Boat has 7' of Cockpit Space

May have enough room to walk around for
looking Cores + Tripod

Badge Says Person 17

Don't think that there is enough room
for genset in engine compartment

Some of Railing has repaired corrosion

Tom Takes home lots of algae w/ them

No visible rust

Unhooked at Dunt Fastening

Some wood needs repainting, Bottom needs repair

8-26-96

MARINE SONICS SS Dunt 0830 set up at Dunt

W4

BRENNAN CARTER - ANTIPOD FSU

ROGER SMITH - STATE ARCHAEOLOGIST

BRENT PHANEUR

JOHN BRANTEN - UWF

BILL BRYAN - BOAT CAPT

KEITH PLANE - DOS - PC SHUTTERCAM Survey

SUN TRACKER 24' PONTON BOAT

1950 Arr at Station

Talk to Brett get File Commissions

PC is dedicated handheld unit

Display was bad at - no sunshade

Whole System is software based

PC HAS GPS INPUT FOR SPEED

AND POSITION

FISH IS 1 PIECE PVC - SEALED

NO REMAINS

REPLACEMENT FISH #4000

HE HANDWIRED INTO FISH

FEATURES DEFINITELY VISIBLE

NEED PRACTICE TO ID

10:30 THUNDER IN AREA

163 - 48 RECORDING HUG

1600 BEGIN TO RAIN

PV FISH

1140 Squall Passes, Return to Survey

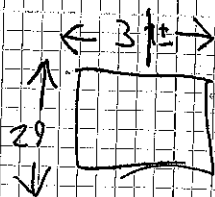
Changes in Bottom Character Visible

1250 Plan In Port

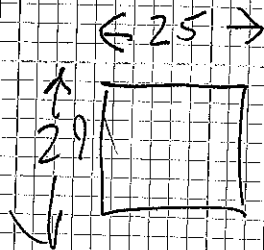
9-11-96

Probe Windows

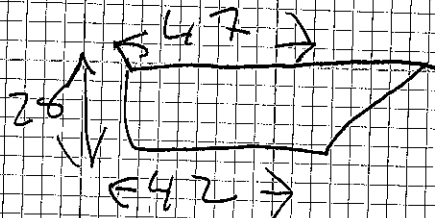
REAR WINDOW



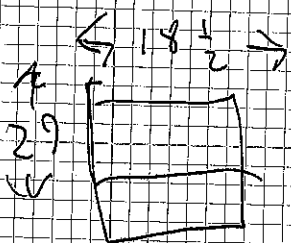
LEFT REAR



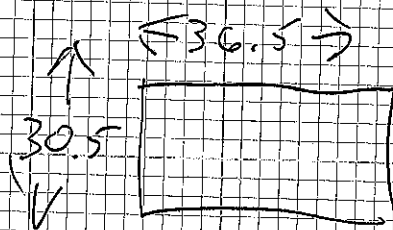
LEFT FRONT, RIGHT FRONT



DOOR



WINDSHIELD



CABIN FLOOR 53.5 W X 84" LONG

17 5/8" CLEARANCE FROM STRUCTURE DOWNWARD TO FLOOR

9-27-96

Carroll Probe

w/ Joe Donofrio
Ted Kiper
Chris

Came for testing Geaculase, LV st marks 10:12

Nikki

What is final count for # of 2-W lines?
61 EAST-WEST LINES

2) How Long are you showing E-W lines?
7 miles 6 miles*

3) How Long are the 2 N-S lines
A = 36 miles B = 41 miles

Henry

* 60 X 6 miles + 1 X 3 miles

10-31

Lv atc at 1600 for MCB - Colon Beach
Ar at 2230

11-1-77

Lv hotel at 0700

Ar at Bant 0730

Gen Arrives 0900 w/Equipment

Dana Wiese - Operator

Rich Yang - Captain, Engineer

Phil Thompson - Engineer

Set Load Up at Dock, P/U Equipment

613/580 - 0316

Engine Maintenance

1500 Finish Setting Up, Get Under Way

1545 Arrive at SP B-2

1630 Over HV cable in PG while setting up for
line, continue to set up SS

1800 J supply, running at 60 S when
cable failed

1650 SS could not bring up SS - loose cable in
fish?

1800 Bn to Dock, Clean Up ~~to~~

1900 on at Hotel (Dinner, Sleep)

11-2-77

~~1800~~ 0600 Lv Hotel

0630 Ar at Bant

Continue w/Engine Repairs

1100 Finish Equipment Set Up

Per Supply Repair

Side Scan Repair (1 hr)

1145 Get Under Way

Begin Shunting

Argue Lines B-2, B-4, Part of B-6

Stop Shunting Due to impending Darkness

1430 Arr to Hotel

11-3-77

0600 Lv Hotel for Bant

Ar at Bant - Wind N @ 15 kts

6 ft seas predicted

Stay in Port

1400 Arr to Bant Wx condx same

Wx Day - Not Workable

11-4-77

0900 Ar at Bant

Announcing 6-7 ft Seas at Sea Broom

Wind NE 15 g 20

0200 Arr to Bant

Announcing 5-6 ft Seas at Sea Broom

Wind E 15 g 10-15

Whitcaps Visible on Ocean from Beach

11-5-77

0600 Lv Hotel

0630 Ar at Bant

W 5-9 kts

Seas? 4-6 predicted

5 ft NORA

0645 Get Underway to check seas

11/5/96

0740 Arr in Sta B-6 Remunder
B-5 Small

Start B6A @ 1300 1307

Pwr 105J

A. Acoustic Record looks
good because of small

Will go to end of line + reverse

Cause

0810 Safety Link on SS Fish

Broken, Pull in Fish, Start Turn
SS

0840 Acoustic Pines failing, pull, need
to Rtn to first useful link up unit

0920+030 High Seas, Cont Data Quality Rotten
Some Unusable, Scarce, Rumbles

1000 Stern in channel, Repair Equipment

1200 Rtn to W. end Line 6 for Recheck

1230 6 mi offshore

Small - 5' Too High to work. Fish got
T Stems come in from S.

Head in for day

Water too rough for good data

Wx Day - no shooting

Return to channel, Wait as Subcom

1500 Tie Up & Rtn to Port

16-6-96 Bait Herring on Boat

0600 W. Hired

0630 Arr at Boat

Crew not present, Go to Jetty ME to check on

0700 Electrical Activity + 1-2 ft volume

0730 Rtn to Boat, Get Underway Underway

0900 Arr in Station at ~~2~~ end of

B-6 Begin shooting in E. Direction

Temp 72° W 10 E

5' Small Squares in Area

Small shows up on line

Put small Filter on Printer Output

0944 Finish B-6

1200 Finish B-6

0200 Start B-10

1515 Finish Line D-10

1600 Start D-12

* Profiler 16 KHz ADC Sampling (?)

1/2 sec

1/4 stroke plate interval

100 ms record length

1545 Finish B-12

Rtn to Port

1620 Arr. at Dock for fishing fishing

11-7-76

0600 Lv Hotel
0630 Arr at Bunt

Sea Breeze 78° 74° W 142

04500 4 ft seas w/d sea Pd.

→ Arr in Station for B-14

04505 Begin Shooting B-14

→ LINE 12 MAY HAVE BEEN SHOT FROM
E END OF 14 TO W. END OF 12. NEED
TO CHECK

0944 End B-14

1054 Begin B-16

12005 Waters Launch of Miss Surveyor
Delta

1225 End Line

1327 Begin B-16

1515 Finish B-16

1600 Arr at Start B-20
Replace Blank Platter Paper
Clean Out Strainer for Generator
- No Saltwater Cooling

~~1602~~ 1610 Start Line B-20

1700 End Line at 80' 30" - Due to Darkness

Will shoot remainder thru

1815 Arr in Port

11-8-76 ~~Arr~~ Hotel

0640 Get Unhooking to Pick Up End Remainder of
Line B-20

0820 Arr in Station, Finish E portion
of B-20

1152 NAV Data Goes Out - Ant ~~at~~ (11:20)²⁶

seems Cause Tree Interpolated Data
Connected to Computer fell
out because of wave pounding

1215 End B-22

Recover Equipment

Sea Anchor Blown Out

Heard for part due to incoming
front around 2-3 ft swell also
inshore, 5 ft + offshore

W SW 157 SW

1330 Arr at Dock after pulling Sals
down channel, 1/2 day working.

~~ARR in Port~~ See later

21
11-20-96

A/V Probe

w/ Band Hupley
Sam Bussell
Sam Linder
Ted Kiper

Cause in St Mike's Channel to check out St men
EPC 1086 Chant Recorder

10:07 Could not get test print pattern in
chant recorder to work

EPC 508/777-1996

TAKE RECORDER OUT OF STBY BEFORE
RUNNING TEST PATTERN

RPT CR SCL LING INT? ~~200ms~~

NEED TO FIND AT OUR APT DISPLAY

SCALING

1315 RTN TO DOCK

WX CLOSING IN FROM N.

Scale Markers -

* Set Key Rate = 0.250 (250 ms) ^{* Bump/sec} ^{ie interval between bumps}
Scan Rate - 200 (200 ms x scan)
(Full Scale) - (ms Full Scale Reflection)
Delay - 0 (used for not eliminating noise)
Column - use to write

12-11
0400

Probe Cause

Joe Dunaford

Steve Spencer

Adel Dabrows

Rodney Deham

Ted Kiper

myself

0930 Arr at St Mike's

Get set up

Fuel Burn

1100 Begin Survey

2-10-97

1600 Lv for MCB
2230 Arr at Hotel

2-11-97

0700 Lv Hotel

Arr at Site + Buy Supplies
Check at Palmdale + to Seb
Palmdale AFB Beach
+ N SEBASTIAN WALK

1015 Arr at IR 5

Prepare for Core
Property Owner - Sorenson
- Spoke w/ Sam + left Card

Last Alt 1 ft due to shattering
SD 65 cm from top

GPS II R09

27 49.443 N
80 25.803 W

1100 Lv IR 5

1115 Arr IR 6

Collected Core

11 cm fell out bottom

~~27 48.0050~~ 38 cm next removed
from top

27 47.999

80 24.943

Campy Park

1220 P/O at WC

1245 Arr IR 7

Orchard Beach IR CO

72 cm fell off bottom
sediment to ⁵¹cm? from top

27 46.411

80 24.078

EPE 283 ft

1330 Lv IR 7 Site

1430 Arr at IR 8

30 cm from msg from bottom

27 44.189

80 22.900

20 cm msg from top

1350 Arr at IR 9

Last true penitizing GPS

27 ⁴²~~42~~.693

80 22.410

Max refilled w/ 120 cm sticking up
75 cm inside pipe

~~Bottom message~~ OK 52 cm msg from
bottom

1620 Finish IR 9

1655 Start IR 10

27 40.894

80 21.817

53 cm shattered off top

21 cm pipe, sticking up

48 cm pipe

Whole full of water, last 52 cm from bottom

1705 LV 12 10

1717 Arr 12 11

Harrison Park

sample taken 10 ft from front of pep rock

27 36.995

80 21.248

top 65 in shuttered

Sediment to top

36 in core cut

Center

nothing lost off top

2/12/97

0700 LV Hatch

Get to Walmart

Fuel Vehicle

0830 Arr at IR 12

37 36.686

80 20.397

Nothing msg from Gutter

SD 7 in from top

appt. 25 in shuttered while

0940

Arr 12 13

27 34.905

80 19.643

Lost 22 in from Bottom

22 in shuttered in during

2 in sediment lost

from top

P/U

1001 LV 12 13

1030 Arr 12 14

27 45.607

80 23.610

30.5 in msg from Gutter

Sediment to 1/2 core

15 in shuttered in during

1115 P/U IV site

Bank for Sale at Cape

407/699-5982

245 SF 10' x 10' w/ trailer

Ryan Moore

International Tunny

453-7783 alt

459-5609 pager

5-4-97

1630 Lv for Cocoon

2330 Ar Cocoon; Check into Hotel
8 hrs for N. K. K., 7 hrs for H. K.

5-5-97

0800 Lv Hotel

Meet USGS crew on Boat

Dinner Where

Rich Yang

Set up Equipment

1930 Lv Boat + Arr at Hotel

11.5 hrs

5-6-97

0700 Lv Hotel for Boat

Get Set Up

W x 650, W 5-1000s 2-3 ft sens

0935 Begin B-12 READ

1119 Finish Shading B-12

1120 Shoot 1 mile N-S Test Line

T-1 SP Source, S. Jensen!

T-1: 35

B-24

1215 Begin B-24

7358 End B-24

1428 Start B-26

1650 End B-26

5-6-97

1646 Begin B-28

1818 End B-28

1837 Begin B-30

1940 Break Line Due to Darkness

2100 P/U + Go into Dark
5-7-97 Arr at Dark → Close Dam

14 hrs
me + W. W. W.

0700 Arr at Boat

Jack K. K. K.

Adkki Storing

Dann Wine

Rick Yang

Move out to SB 30A

Quit at SB-30 yesterday

Confirmation in SB 30A

Couldnt Cancel note

0840 Arr at SB-30A

0844 Begin Shaking Line is continuation
of SB-30

0922 Finish SB 30A

0939 Begin SB 32 Reverse Course

1117 Finish SB 32

1141V Start SB ³⁵ ~~34~~ ~~Reverse Course~~ 35 fed into computer
instead of 34 in error

13:11 Finish SB 34 35

13:20 Start SB 36 Reverse Course

Need to FILL IN 34

5-7-97

140049 Finish SB 36

1506 START SB 38

1636 FINISH SB 38

1653 START SB-40 Reverse Course

1807 Finish SB-40

P/U Equipment, Head for Port

2000 Tie Up at Dark, Finish Cleaning Up
13 hrs HF + WS

5-8-97

0600 Lv Hotel

0630 Sail for Start SB-40 42

0700 Arr at SP starting Port 340 42

Seas 2-3 Short Period Swell

Too Rough to Deploy Side Scan

Just Short Schooner

Seas Predicted to Rise throughout day

First Run through the

63° W W 6 mph

Course on Course at SP 1300

0814 Begin B-42

0949 Begin B-42

1005 Begin SB 44 Reverse Course

1031 Blew Out Son Anchor

1127 End B 44

1148 Begin B 46

1328 End B 46

1344 Begin B46 Reverse Current

Sens Quit to 1-2 ft W of South

Deploy Sidescan after we begin shooting B46

Strong current @ 6025.000 Also seen on B46

1516 End B48

1537 Start B50

Sens 0-2, W of South 300 ft

1720 Finish B-50

1740 Start B-52 Reverse Current

191007 Finish B-52 P/O + Head into Port

2100 An at Dark + Park Up

5-10-97

9500 Morning Report from Nikki Strong
On 8.9

Start B54

B56

Sens started picking up + returned to

Port for manifold replacement on Boat

Sen had white caps - Underway to start
dive shooting

5-11-97

1151 Telephone Boat for Morning Report
No Answer

12125 Nikke calls

On 5-10

0630 Lv Dock

1830 Return

3 lines done

1-3 foot sens at shooting

B-56

B-60 sens picked w/chop

B-62 marginal data

did test line, marginal
results

6' sens carry pack

3 1/2 hrs into port

On 5-11

10-15 mph winds NE

73°

3ft sens at current buoy

3ft sens off of New Surgeon

Spillie w/ Damm Confirmed doing add lines
in lee of Cape

5-12-97

0855

Called Boat - phone turned off

1104

Called Boat

No Additional shooting on 5-12

Spent day cutting CDs

5-14-97

0615 LV Hotel for Bant

Crew Collected Arrived in 6-13
 & completed

B-21, B19, B17, B13

Documented on log sheets

Bant out in at Dark on 5-13

On 5-14 At Commercial Bay 720 WSW 12 2 ft 5 sec

Start in to 64 Head out to 364

28 mile run 64

0845 Arr at B-28 Begin to Set Up

0850 Begin to Shoot ~~P-11~~

W WNW B-28 64
 W ENE S-10

Sens 0-2

Shoot Line at 090 heading

0914 Begin Shooting

1055 End B-64

1121 Begin 66 - Reverse Course

1300 Finish B-66

1330 Start B-68

1520 Finish B-68

1538 Begin B-70

1700 Finish B-70, Shot ~~was~~ 1/4 mile extra

& 30 in to Commercial - Too Late to complete
 another line

Pick Up & Head for Port

1930 Arr at Dark

5-15-97

0615 LV Hotel

0700 Arr Fuel Dock

Decide to shoot N. End of Sequence
 (Even Lines) to make up for time spent
 at Dark

First Line will be B-23

0845 Arr on Sta

0921 Begin B-23

1100 End B-23

1125 Begin B-25

1305 End B-25

Reverse Order

1331 Begin B-27

1522 End B-27

1544 Start B-29 Reverse Order

1719 ~~1719~~ B-29 Finish

1930 Arr at Dark + P/V

5/16

0600 Arr at Hotel

W WNW at 14 2 ft 5 sec Announced

3 sec pil. at Commercial Bay

New Sequence 3 ft 8 sec.

0756 Arr on Sta for B-31

10-15 KB WNW NNE

Will not try to go down to Sebastiano Today

0807 Start B-31

0829 Check in w/Ron

0852 Finish Line

5/16/97 Cont

1013 Begin B-33 ~~B~~ Reverse Order

2-3 ft Chop off beam

Bent rolling aggressively

1205 End B-33

Sens Short Period off Beam

Data Marginal

Head into port.

1342 Arr at Fueling Dock

8 hrs

5/17/97

0600 Lw Hatch

0630 Lw Deck for B-72

0850 Arr at Sta Get set up for B-72

0919 Start B-72

1001 Finish B-72 Short extra $\frac{1}{2}$ mile

1123 Start B-74 Reverse course

~~1123~~

1259 Finish B-74

1326 Start B-76

1520 End B-76

1537 Start B-76 Reverse course

1711 End of Line B-78

1930 Arr at Fuel Dock

Big Piece (10x16?) of Visqueen
Came up with w/ 55cm Push
Probably on for 2-3 Lines

5/18/97

0630 Lw Hatch

Fuel Bunt

Will try to go N-S Line A

0840 Arr on Sta Line A

Shunt to Sanfran

NOAA announces

High Scattered Clouds

76° Wind Calm

3' Seas

8 sec per

at Commercial

3' w/ 9 sec per at New Smyrna

0850 Begin Data Acquisition

Heading South

1645 Finish Shunting Line A

Off Sebastian

Seas up to 2-3 ft

W 5-10

1930 P/U & Head for Port

1930 Arr at Dock Clear Bunt & Equipment

5/19/97

0600 Lw Hatch

0900 Arr on Sta for B-79 Deploy Equipment

0921 Start B-79

No MANUAL NAV FILE

1059 NAV File RECORDED ON BATMAN

1056 Finish B-79

5/19/97

1134 Start N-S Line B at South End of Line
W 5-10 zwa

2-4 ft yield

1214 1 Generator Fails

Swap Well Success try to swap away
so that we can continue with Subsurface
Profile Acquisition

28 13.465

60 27.534

Miss 3 minutes of Data in Swapping Over
Generators + 1000' of Data

S.D. Scan Still Running

Power Everything with 1 generator

1814 Stop Shooting at

28 17.464

80 27.462

Head into Port Before Dairies
Will continue from

2-3 ft Scan 5-10 zwa wind
Long small OVC
Temp 50° Low 60°

2000 L Bant after shut down

5/20/97

0630 Luv Hatch

0800 Luv Dark After Fueling & Landing Water
Tank

~~0800~~

0911 Begin Shooting S. from N. End of
Line B

28, 24, 580

40, 26, 162

Begin 1 min N of intended position

0915 Pass Planned Start of Line Shooting

LOGGING INFO ON BATHY

- NO MANUAL LOG KEPT

1019

BLOW OUT SEPARATOR

SWAP FOR NEW ANCHOR

1040 PASS UNKNOWN SUB

1100 GPS SPOT

Sub in Area?

USCG Target Practice Second Announcement

1115 16 End second Pattern of Line B

28 17 860 712

40 27 910 867 881

1124 Shoot Line D

Dragged Line D from Endpoint
of B Segment to W. End of B-11

1134

28 17 122

40 26 661

095 Hdg

Start Line D

WX 80 W NOZ 25-30
High OVC

5/20/97

1226 End Line D

28 20 493

80 25 704

1227 Start B-1 Reverse Course

28 20 480

80 25 718

Line start in Reverse Order

1408 End B-11

Start B-2

1426 Start B-3

1606 End B-9

1619 Start B-7 Reverse Course

1802 Finish B-2

Pick Up, Need to Clear Area for Delta Launch

1930 Arr at Dock, Close Dam Bunt

5/21/97

0600 L Watch

0740 Arr on Station Set Up for B-35

0856 Start B-35

0925 End B-35

0941 Start B-37 Reverse Order

28 08 981

80 27 880 obvious sand structure

1112 End of Line B-37

1129 Start B-39

1200 Generate Fails

Leave Sonoma

Will Creek track to Pick Up Line?

± 1200' data ~~missed~~ subsurface data

msg. Guide to continue line

@ 28 08 054

80 27 866

1215 ± Restart Generation

Generation Out for 3 minutes

1257 End B-39

1426 Begin W. End of B-5

Right Sonoma Channel
Intermittent, Phy Problems?

1600 Problems w/ GPS Both Units go
out simultaneously for 3-4 minutes
Covers track, then goes out again
Signal being jammed?

1604 End Line B-5

Completed by Dead Reckoning

on 5/20 and 5/21 had GPS problems at
1600 local

LOAN Fix at end of line

28 28 400

80 24.94

1624 Start B-3 Reverse Course

1753 End of Line B-3

P/U & Head into Port

1930 P/U Leave Bunt

6/22/97

0630 LV Hotel

Change Generator Oil & Filter

0833 LV Dock, Sail south to B 41

1010 Start Line B-41

1134 Finish Line B-41

1157 Start B-45 Reverse Order

1330 Finish B-45 on Dev Rackonville
Lost GPS 5 minutes before end of line

1352 Start B-43 45

1556 End B-43 45
Sewer picked up 2-3 pm 1/3 sec (W)
Wd. ENE 15

FE

1612 Start B-47 Reverse Course

1700 25 04.647

60 26.227

PIU Equipment, stop shooting

Due to Rough Seas,

4' Seas on Return

6-22

1600 LV YEM for 6th Pete w/N. L. Stum
2330 Arr 8th Pete 7 hrs

6-23

0600 LV for USGS

Meet w/ Jack & Dan

Start Setting Up Batch Files

Run FRT

Most energy from 160kHz to 4.5kHz

Set up Batch files for 160 to 4.5kHz

ELKS program ^{max} high pass must
be $\leq 12\%$ of sampling frequency

10 hrs

1 PM Finish & FLS

6-24

0700 LV Hotel

Dump N. L. L. at USGS

Drive to Ocala

0930 Arr EO Commerce & Chase

Speak w/ Glen Guntz 029-3506

COUNPS CONST.

6-24 MARLOW CO

1130 AM AT 140TH AVE NE Mine?

Sec 29
Truck w Name South
at end of? Lane Lane

29 17.490

81 54.996 WGS 84

difficult to locate
roads don't appear map

NE 150 AV + NE 120 LN

MARLOW ON MAP AS 140
150 ON 616W

C-29-29E 135

Alternate Pass

approx .25 mi N
overgrown w/veg
could not get heading

12:24 AM at Bantmill Reservoir Citrus Mine

29 23.40693

82 05.108

1258 STAVOLA Mines

Access DENIED AT SULL HOUSE

Went to STAVOLA FOUNTAINS OFC

Went to TALK TO MR HOUTCHINSON IN TOWN
FOR Access

629 352 / C-29-9715

1400 AM at Bantmill CR 484. Property
Property is stone ranch - now grass + weeds
sparse scrub (Next to New Testament
Church)

17-175-14E

29 02 183

82 03.749

WGS 84

1600 PM to USGS St Pete, Mike's working on computer
+ Work on Seismic

Recommended GPS Procedure

1) COE for County Map

2) Approver for location

3) Property Owner for Info

This will save time in field

4) - Know where loc is before you arrive on site

Seis Processing

- Need to finalize processing sequence
procedure for ^{reproducible} ~~reproducible~~ _{use}

I make 10 hrs

Mike works straight through to 11pm

6-25

0700 Arr at Eckman Dock, set up Vibrometer
 0800 L.V. Dock w/ Greg Brubaker
 0855 Arr on Station for Vibrometer + students
 Rich Gunn-capt.

Off of Blind Pass (USGS 97-252)

Uneven Sediment Cover above L.S.
 Penetrometer Under Repair

0945 2745 Begin to Vibrate
 0955 2755 Stop Vibrating - No Penetration
 Core is Island w/ L.S.

Soil Recovery

No Penetrometer - Well open in Lab
 Core Recovery must be made to
 be 5' to 4 ft - core in L.S.

1020 W for next site
 1030 Arr at USGS (97-247)

1041 Begin Vibrating
 1102 Finish Vibrating
 Estimate 15' Penetration
 8' Recovery

1140 P/U at Site
 1150 Arr on Station for USGS (97-248)

1157 Start Vibrating
 1230 Finish Vibrating
 10' penetration
 6' of core bbl chipped w/ live mud
 8' recovery

1240 P/U - move to next site

6-25

1253 Arr USGS 97-249 loc + set up

1301 Start Vibrating
 1330 Stop Vibrating - All water depths 15' - 20'
 9' Penetration 2 11'
 9' Recovery

1403 Arr at USGS 97-250 set up

1422 Start Vibrating
 1445 Finish Vibrating
 9' Penetration
 6' Recovery

1505 P/U at beach

151555 Arr at Dock

8-19-97

LV FGS for Cocoon at 1330
Arr at Cocoon + Unpack 2000

60-46-20-97

0700 LV Hotel

Stage Boat

0830 LV for 1st Group Sample Luv
GS-27

0925

Arr - Sta GS 27

28 23.427

60 26.475

Could not get sample working

1015 Arr to Dock

Buy 150' Luv at Same Marine

1101 LV Dock for GS-27

1130 Engine Dred - Do 180 Arr to Port.

1230 Arr to Dock for bus

1245 LV for GS-27

313 Arr @ GS 27 - 1400

28 23.418

60 26.460

1333 Couple GS 27

Go to GS 22

1340

Arr GS 26

28 22.154

60 22.151

Could Recover
Lots of sh.

Recover
Appx 500 gms

Go to GS 25

1401 Arr GS 25

28 21.336

60 26.059

Recover 1.5 kg

LV for GS 23

1416 Arr GS 23

28 20.500

60 26.732

Recover 500 gms
LV for GS 24

1440 Arr at GS 24

28 20.477

60 29.747

Made 4 attempts

Recover 300 gms

Go to GS 22

1510 Arr GS 22

28 18.784

60 27.863

Recover 500 gms in 4 attempts

LV for GS 21

1530 Motor Problems

1550 Arr GS 21 under reduced power

28 17.844

60 30.219

4 Times No Bucket Close

do
Recover

Sample to Joe Dampier Sampler - recovered 3-400 gms
1615 L-6521 for fuel put
1725 Air in Port

4-21-77

0630 L-6521

Woke in Boat Maintenance
Refueled in MCB (Duesel)
Air at Sebastia at 0930

1000 Lunch, L-65-1

1104 Air at GSI

Had water problems in way out
Max Speed ± 10 Kts

27 52.912

60 19.433

3 Tries - Just Brought Up
Shells - more ± 500 ft w/ Tug
GS-1A Again

27 52.875

60 17.533

4 Tries, Recovered ≈ 300 gms
on 1st attempt
Grabbed Shells + Imprinted
Close to Recovered

Go to G52

1138 Air at G52

27 52.922

60 20.331

2 Attempts

Recovered Shells

All recovered in G51, 1A, 2
have about 20% unwanted material
(Anastasia)

3rd attempt buckets closed
fully, came up w/ shell trash
L-65

1208 Air at G53

27 52.903

60 22.343

Recovered 1.5 kg

L-65

1230 F cell over G54 area

Lightning, Rain

Rain for 20 min

Turn in NOAA

Front w/ 35-40 Kts winds + 15 mph
Hailing for 20 min
Lightning + Thunder

1320 Air at Sebastia Dock
Lightning + Thunder

4-21-97

1530 Lv Sebastian Dock for GS4 after Storms
Pass

1610 Arr at GS4

27 55.329

60 23.214

Recover Shell Hatch & Cannon Sds in
1st Grub

2nd Grub Recovered Med-Cannon S)

4-500 gms recovered

Go to GS5

1443 Arr at GS5

27 56.132

60 19.367

5 Attempts 80% Shell Muffin

~~Same Induration~~

Same Induration

Shelled out Rock?

Recovered Recovered $\pm$ 450 gms shell

Go to GS6 GS7 - 800 - 700 ft

Return in AM

Return to Sebastian

1800 Arr at Dock

2000 Arr at Hotel

4-22-97

0620 Lv Hotel for Port Commercial

0755 Lv Dock

~~Swamp~~ Wind 10-15 Kts $\rightarrow$ SW

PC w/ High Curdles

Go to GS21

0930 Arr GS 21-A

DUPG

28 17.871

60 30.160

4-6 ft seas

NO DGP

Recovered $\pm$ 5 Kg $\pm$ 1 Kg

Lv for GS 20

1016 Arr GS 20

28 15.162

60 27.066

Recover 400 gms $\pm$

Go to GS 19

1105 Arr GS 19

28 ~~15~~ 14.739

60 ~~27~~ 29.811

Recover 1 Kg

Lv for GS 18

1123 An GS-16

28 13.878

60 28.772

3 tries Newer ± 300 gms

Lv for GS-17

1149 An at GS-17

~~80~~ 28 12.999

80 28.490

4 attempts ± 350 gms

Lv for GS-16

1210 An GS-16

28. 12.970

29 80 29.333

Collected 400 gms in 2 attempts

Brings Fuel

Rtn to Port

1400 An ~ Port

2200 An in TEL

L-13-78

3.5 to Subsurface

Pt at Joe

Probe

Test Line

O-1 FT SEAS

OUL

Temp $\approx 60^\circ F$

Start 1227

29 46.367⁰

85 23.919

Still having Trouble w/DGPS

~~8~~ 10 Scale Lines / DN

1249 Change track for Port Channel

Pressure Panel to 50%

Key Rate ~~0.25~~ 0.25

Scum Rate ~~0.25~~

6-10-76

FT PIERCE ROSE CORNS
W/ALAN WILLIETT
ADRI DABOOS

0700 LV H&C Room
Scrub for supplies

0905 Set up for SC5
27 33.000 060
80 19.170

SL 5

27" sticking up
Sediment to 5" from top
Lost 48" out bottom
6" from top

0950 P/U at site

1005 Arr at SL 6

27 29.804

80 17.955

Reform w/27" sticking up

Sed 16" from top

Lost 5" from bottom

20" from top

cracked pipe

1100 P/U at site

1146 Arr at SL 7

27 27.582

80 17.242

Met Refund w/27" sticking up

Sed 29" from top

Lost 27" from bottom

12:01 P/U at site

1420 Arr at SL 6

Glenside Tank Development
(Site Cleared)

Spoke w/Harold Mungler

Asked abt Bank Restaurant

Gave him Richard Barclay's Name

Stayed for supplies before arriving at
site

27 23.248

80 15.517

Pipe Sticks up 20"

Sediment 17" from top

1524 P/U at site

1550 An at 549

27 19.127

80 13.540

24" Gravel off top

18" sticking up

18" sediment

Lost 39" from bottom
1630 P/V at site

1721 An at M-4

GPS Not Working
Lantern on coast opposite Jaws Bay
Thru on A1A Unmarked Beach Access
at end of road / access at N end of Comb Strip

25" sticking up

Sediment 26" from top

30" Gravel off top

Bottom Recovery Complete

GPS Rpe on 6-11

27 14.420

80 11.267

1200 An to Antic

6-11-98

0700 CV Mabel

0805 An at M-5

GPS New Wagon WKA

Thru measurement

0915 An at M-5

27 03.153

80 06.508

20" sticking up

7" sample from top

38" Mng from bottom

20" A

085 0952

P/V to site

5 mile N from Hake S2 work

No Beach Access for Quarry

S End of Mabel Co @ 2658.118

immediately Enter Blowing Rocks Reserve

1045 An at C for M-6

2659.593

80 05.576

28" sticking up

Sediment 10" from top

lost 36" from bottom 1130 P/V at site

6-12 Rtn to ofc

Received offshore grab sample
collected by Ted Kiper
Sample collected at

27 28.479

40 14.306

7-6-90

1400 Arr at Pt St Joe

Boob is now underground

Low tide

meet w/ Dunn

Will have to wait for high tide
to set up

7-7-90

Pt St Joe

0630

LV Hotel

0700 Arr at Parker

meet w/ DANA WALK

UNPACK & SET ON MOUNT

0944 LV Rock to test equipment

1150 Finish Trench

1805

1 shot/sec

500 250 m

(Depth 100 m)

Don't Fiddle

Double Hydraulic Flare

1245 for test engine

1245 Dodge SB19 shot to W

Saw some interesting features
along cut up

Still using Hydraulic Flare

1230 Hydraulic broke a 6 meter

could not push line
will reshoot

Ted + N. K. go into town, will try
again tomorrow w/ skill.

Now Arr at Hotel

Chris

7-8-94

0800 Arr at Munro, meet w/ Dave

0922 ~~F~~ Review sections

0930 Ted Kiper arrives w/skiff from TUM

1115 Finish Darkside prep w/skiff

Start steering off of Munro for setup

1156 Begin SS 14A

Shooting to E (020)

CAUO 0-2

100 J, 5 kHz single

1 shot/sec, 250 ms record

4 kts shooting speed

1311 Finish SS 14A

1342 SS Start SS 13

Start 29 46 507 85 18 596

Finish 29 46.494 85 23.739

1504

1532 Begin SS 11

29 47 556

85 23.915

Forward OMOAN

1643 Finish SS 11

29 47 554 85 16.464

1709 Begin SS 9 29 48.5 85 18.741

1847 Finish SS 9

29 48.446 85 24.245

7-9-94

0030 In Hotel

0700 Arr at Bant, Begin to make Ready
Purchase Gas etc

1000 Luv Darker, I had darkroom
waited for it to clear

1030 Arr at start for SS 7

Set Up Shooting equipment

1059 Begin SS 7

29 49.503 85 24.144 ±

3 min after line begins
at OVC, 90°, 0-2 ft

Wind Lt + Var

Fish began to submerge

Slowed to 3 kts.

1215 Finish SS 7

85 19.054 29 49.503

7-9-96

1242 BEGINS SS-5 Also 5-A

29 58.451 85 19.625

Stopped shooting due to rough seas

much water coming into boat

Severe Pounding

Resumed shooting 1/2 way across Bay

29 50.26 85 23.749
57.75

1422

Start in middle of SSB

29 60.255 85 22.335
50.392 20.3554

1600

SQUAD moves in

STOP SHOOTING

WILL START GET SHUT DOWN COORDS
THRU

Stopped SJ-B at

85 23.566 29 46.411
at 1915Z

7-10-96

0800 in Hotel

0700 Arr at Mann

Set up Equipment

Under storage after squall

0900 in Mann

0921 Begins SS 15

29 45.975

85 23.496

0930 BEGIN TO RAIN

1027 Platten Pambars

Not Pounding

Go into Orient

End 85 19.680

29 45.483

NW LINA 15A

29 45.452

85 19.239

SEWA 15A

29 45.472

85 18.679

1100

Start SS 12

29 44.518

85 19.131

W 10-15

Sea 0-2 Lt Chop

Final SS 13

29 44.500 85 22.867

7-10-96

Burn SS 1

1237

29 43.502

85 22.648

Detour to ~~W~~ of Blacks Island

1342

29 43.502

85 19.102

Line ended in shallow weeds

1417

Burn SS 21

29 42.895

85 19.235

1516

29 42.510

85 22.028

Finish 1/4 mi from shore

1536

Burn SS 23

29 41.589

85 21.552

1607

END

28 41.910

85 20.371

ENDING EARLY DUE TO SHALLOW
WATER (CLIFF) & WEEDS CLOGGING
INTAKE

1620

BOAT SWINGING PROBS

OVERLAP? TOO MUCH CRASH?

7-10-96

SS-2

Low On Gas, Engine troubles

Shut from S. End of
Bay to Eagle Pt. Main

1632

Burn shooting

29 42.669

85 20.471

1757

END

29 45.918

OR

MARINA 85 23.506

ROUGH CHOP - 2-3 FT

WIND 15-20 MPH

GUSTS - SWARMING

1845 Finish Picking Up
LO SETC

1

7-11-94

0630 LV Hotel

USED TO REPLACE
DIGG PUMP

0730 Arrive W/S in Camp

0750 Get underway FOR 1ST LINE

4N
1134

BEGIN SS3

2951. ~~493~~ 523

85 23.428 804

CHOP TO W side of Bay

1222 Finish 29.51.533

Line 85 20.708

1247 BEGIN SS1

2952.493

85 21.172

1327 Finish SS1

~~2952.524~~

85 23.968

29 52.486

22.662

Printer
Wait off Line
Printer Prints

7-11-94

1353 BEGIN SS2

29 52.486

85 21.937

Shooting N2S

AT N end 2' Beam shot

Shorten line to Avoid Shallow
Grass Flats at S. end of Bay

1635 END Line

2943.644

8522.502 ✓

BEGIN SS-C

1645 2943.561 8522.909

DATA QUALITY AT S end

UY POOL

- SHALLOW WATER }

PLOTTER END MIN LINE

LINE ~~SAVED~~ CONTINUED AS

SD CA and SAVED PRINTED
TO DISK

1803 29 46 877 8522.992

End of Line due to Fuel
exhaustion

7-20-96

Traveled to Ft Pierce
meet w/ Dan
Clean Boat

Leave to Hotel at 2000

7-21

0700 Lr Hotel
Prepare Boat (Merse. Juice)
for field work

1330 Sail for SL-1

1444 Start SL-1

27 26.64
80 14.759

1 sec shot into
2nd with accuracy
6 kHz sample data

27 26.665 80 07.103

1640

1709 Begin SL-2

27 27.403
80 07.087

1838 End SL-2

27 27.796

80 13.870

1930 Arr at
Dinner

7.655 mi

6.78 mi

14.43
mi

*

AT 26° LAT

1 DEG LONG

= 1.0034 SM

= .6725 AM

7/22/96

Yesterday production was 14.43 mi (7/21)

0700 Lr Hotel

0730 Arr at Boat

0830 Lr Pier

0936 Arr On Station

1247

27 29.335

80 14.260

1114 Finish 1247

27 29.425

80 07.293

1136

Begin 1245

27 29.363

80 07.22740±

1312

End SL-2 1245

27 30.317

80 14.578

7.51 mi

6.86 mi

7122/194
1328 Begin IR 43

27 31.315
80 14.966

1459 End IR 43

27 31.324
80 05.104

1513

Begin IR 41
27 32.332
80 08.647

1636 Finish IR 41

27 32.34
80 15.52

START IR 39

1655 27 33.296

80 15.767

1733 LINE INCOMPLETE

WILL USED TO RESHOOT

PWR SUPPLY PROBABLY

HEAD FOR PORT

1830 Am at Dark - Patrol Head on Star Port
Work on Bank and Documented Need to
Also IR 39

1930 Lw Dark for Dinner

26.67 SW

6.90
6.86 mi

7.40

7123/194

IR 39A - RESHoot OF IR 39

0904
Begin

27 33.298
80 15.641

END
1041

27 33.350
80 08.91

6.75 mi

IR 37
1054

START

27 34.220
80 09.223

END

IR 34

IR 35

START

1253

27 35.300
80 16.317

END

1457

27 35.340
80 09.527

IR 33

START

1457

END 1623

27 36.348
80 09.764
27 36.327
80 16.505

Same Photos
w/ platter
msg. given
in middle of line

6.80 mi

81
6.79 mi

6.74

7-23-98

163 START 1231

1638 27 37.357
80 16.412

END 1432 27 37.359
80 10.121

6.71 mi

37.86
Sun set on 7/23
46.96 Sun
since 7/20

7-24-98 0745 Lv Dark After
Prep work
Dan Dahlstrom Visited

SL-6 0859
27 26.824
80 13.310

Finish

1030 80 06.707
START 507 27 28.413

1051 80 06.140
27 25.722

END 1224 27 28.628
80 13.017

6.60 mi
6.62

6.65 mi

7-24-98 cont.

SL-9

1248 start 27 24.788
80 12.564

1425 END 27 24.793
80 05.774

81
6.77 mi

SL-11
START

1453 27 23.756
80 05.159

END 1615 27 23.791
80 12.058

6.872 mi
92

SL-13 1637
START 27 22.817 80 11.465
FINISH 27 22.802 80 04.713
1817

77
6.75 mi

34.02 mi Sun
on 7/24
110.9 mi since
7/20

7-25-98

0700 Arrived Boat
Prepare
Fuel Boat

START 1229

1036 27 38.294
80 17.516

END

1159 27 36.320
80 10.619

1227

START

27 39.355
80 10.929

PRINTED DWD

FINISHED DATA SAVED TO DISK OK

1333 27 39.326
80 17.851

1225

START

1346 27 40.297
80 18.165

END

1526 27 40.294
80 11.544

6.69 sm

6.85 sm

6.82 sm

7-26-98

1223

START

1223

1539

27 41.297
80 11.794

6.62 sm

1703

FINISH

1223

START

1223

27 41.300

1710

80 18.418

END

1926

27 42.258 80 18.773

27 42.311
80 11.994

6.78 sm

33.76 sm
TODAY

10:30 22:30
Rtn to Hotel

144.6 sm
SINCE
7/20

* 7-26-98

0645 Lr Hotel Buy Supplies

Repair & Maintenance on Boat

0900 Lr Dock

1015 Xmas probes - new found on engine

1200 TOOK US TO WORKING

1137

W. END OF 1211

1211

START

1133

27 47.106
80 13.207

1234 sm

1320

27 47.114
80 20.105

6.74 sm

7-26-98

IR 13

START

13 412

27 46.122 80 20.121

FINISH

27 46.122 80 13.290

1547

PLV

HARD FOR POINT

TOO LATE TO START NEW LINE

6.855m
85

13.195m

TODAY

158.05m since
7/20

7-27-98 0700 LU Hatch

0900 LU Deck After Xmasn Check
Decide to Summit ST LUCIE since
less run time

1045 Arr at SL 15

1046 27 21.758 START SL 15

80 10.873

1237 FINISH SL 15

10

27 21.765

80 04.450 245

START SL 17

1300

27 20 802

80 03 778

1420

END SL 17

27 20.773

80 10.615

6.655m

6.86m

7-27-98

START SL 19

1436

27 19.805 80 10.116

K WASH SL 19

1631

27 19.750 80 03.420

Hard for Put it to Place

6.725m

20.23m
on 7/27

179.23m since
7/20

7-28-98

0800 LU Deck

1020 Stopped at Marked Wreck, lowered

27 20.272

80 04.490

Did not see wreck, Saw Sand Ripples
On Bottom

1045 Arr at Start SL 21

1054 Start Shooting SL 21

START 80 02.656

27 16.823

END

80 09.690

1213

27 16.76 18.76

6.865m

7-28-96

1232 START SL23
27 17.765
80 09.192

END SL23
1402
80 02.500
20 17.796

BOARD BY USCG
1400 ± Down SAFETY & ID
CHECK

START SL25
1737 27 16.736 80 02.523
1552 27 16.744 80 06.459

~~START SL27~~ HKMO FOR PT ST LUCIA
DATA W/ EQUIPMENT

19.925m
on 7-28
199.15 Sm same
7/20

6.615m
6.71

7-29-96

0700 CV Hated
0900 CV Port after Fueling - LV from Man ~~ABE~~
Luging in ship
Rocket

0945 An SL27

0947 Start SL27
27 15.841
80 06.620

1117 Finish SL27
27 15.705 / 80 02.677

START SL29

1134
27 14.755 80 02.563
FINISH SL29

1244
27 14.716 80 07.673

1307 START SL31

27 13.619
80 07.158

1424
27 13.0703
80 02.541

SL31 NOT SAVED TO DISK
Paper copy only

5.975m

5.175m

4.635m

7-29-98

SL-33

START

1501 27 12.774
80 02.144

FINISH

1610 27 12.726
80 06.463

SL-35

1632 START

27 11.690
80 06.272

END

1733 27 11.210 714
80 01.997

M-1

START

1752 27 10.641
80 01.768

END

1850 27 10.651
80 05.855

P/V jump

227.57 sun
28.42 sun
on 7129
since 7120

4.3195m

4.295m

4.065m

7-30-98

M-3

0206

27 09.636
80 05.544

1058

END M-3
27 09.638
80 01.728

M-5

START

1024 27 08.628 / 80 01.584
END

11012 27 08.645 80 05.465

M-7 START

1133 27 07.670 80 05.104

M-7 END

1223 27 07.621 80 01.653

M-9 START

1243 27 06.591 80 01.364

M-9

END

1333 27 06.616 80 04.584

M-11

START

1404 27 05.590 80 03.978
1450 27 05.611 80 00.995

3.645m

3.885m

3.465m

3.235m

3.005m

7-30-96

M-13 START

1508 27 04.630 60 01.017

BEAR OFF FOR TOW PLASTIC LINE

1524 PLASTIC M-13
27 04.641

80 01.1063

1600 END M-13

27 04.619
60 03.593

2.665m

START M-15

1617 27 03.582
60 03.050
END M-15

1649 27 03.562 27 03.599
60 03.520 60 00.813

2.145m

1710 START M-17
27 02.615 60 00.452

1734 27 02.598 60 02.748 END

1.95m

START M-19

1749 27 01.620
80 02.323

1814 END M-19 27 01.591

1.795m

80 00.544 25.605m

253.17

253.17 m same 7/20

7/31/96

1003 START M-21

27 00.638 80 01.990

1033 END M-21

27 00.623 80 00.31

1.69 mi

START M-23

1109 26 59.598 80 00.070

END M-23

1134 26 59.540 80 01.766

1.70 mi

START M-25

1149 ~~26 58.643 / 60 01.504~~

1151 START M-25

26 58.719 / 80 01.564

1211 END M-25

26 58.673 / 79 59.996

1.57 mi

1210 START LINE A

A-1 A-2

26 58.673 79 59.996

1800 END LINE A FOR DAY

27 18.736 80 06.490

20.31 mi

25.09 mi on 7/31

278.26 mi same 7/20

8-1-96 Saturday

0700 Lv Hotel
Fuel Boat

0957 Arr on Station

Line A-3

27 146.419 50 06.4496

Finish A-3

1054

80 15.472

27 ⁴² 21.370

23.63 mi on 8/1

301.89 mi

Since 7/20

1800* Loose Steaming Abt 2-3
miles N of Ft Pierce Inlet
Begin Towing in water
Call Trenchant VS
Towed to Port
Pump out Bilge
Put Boat on Skid
Return USGS Vehicle from
Muntze Parcel

2330 Return to Hotel Room

IF
Hos has worked

8/2/96

Sunday

0700 Arr at Boat Lv Hotel

Transfer Gear to Sahle

Set up Sahle

1230 Lv for Fuel Dock

Pay for 160 gallons

1305 Get Under way for Line 1219

1449 Arr 1219

1450 START DATA ACQUISITION 1219

1502

27 43.249

80 19.658

1510 Poor Quality Data

ReDeploying Equipment + Return to
Line Start

*1534 Restart 12-19

80 19.631

27 ~~40.5~~ 43.300

1730 End 12-19

~~60 19.825~~

80 12.349

~~27 27.776~~

27 43.220

0800 Rt to Hotel

Bill for 12 hrs

7.30 mi

on 8/2

309.19 mi

since 7/20

8/3/98 MONDAY

0700 in Hotel

1030 IR 17

START 80 19.424

27 44.296

1259

27 43.910

80 10.269

LINE H11R17 extended 1 mi E to corner
~~H11R17~~ Bethel
Shed

IR 15 STARTED 1 mi N of

BETHEL SHOALS BOU

VB 13 BEGIN IR 15

27 44.308

80 10.509

Line following damaged to

27 45.12 80 12.74 then

stronger west

Turn at ??

to 270

for W end of IR 15

27 44.810

80 10.710

9.185 m

9/3/98

PT Commercial

0500 0530 Lu Hotel

0600 Arr at Atlantic Town

Leave for Com

6-8' Seas outside of Channel

20-25 kt winds

0700 Study for WX

Return to Dock

Will try to sail again at Noon

1100 Return to Dock

Dinner Supp Seas will be

too rough to sail + Day is

Wash. Go to Hotel

1500 Storm moves through, 40-50 mph gusts

9/4/98

0545 Lu Hotel

0615 Arr at Boat

Get Underway 2 ft Seas 5-10 mph wind

0847 Arr at Station for VB-7

28 08 57.93 58.44 ²⁸² F

80 26 16.67 15.529

RUN VB-7

Refused 5' Runway

Covered into Anastasia - more than

VB-7 Run 2

28 08 57.903

80 26 16.479

15' Recovery - persons have boats

all in
5' and

9-11-98 cont

VB-7 15' mud + Amur

1052 Arr at Station

VB-7

28° 05' 04.205"

80° 25' 17.186" ±

* Shell Debris of Surface
of Top Core

Struck in Cores
Not sure if it will appear in core
tubes

1250

Arr ~~1000~~ draft at VB-9

27 56 02.595

80 19 22.411

0.4% shell debris of slk
Core 50 at 5 ft.

1400

Arr at VB-10

27 52 53.722 → 976

80 22 17.20.008 314

Core 50 at 5 ft
infect valves 251

1-15-99

1000 Arr at USGS Marine Science Center
at Deermood Well Field in Sax

Talk w/ Bill Stephenson - 303/273-8573

Jack Odum

+ Dave Weller

Paul W. Weller

Know Stan Davidson - St Pete
Also know met Jerry Kelley?

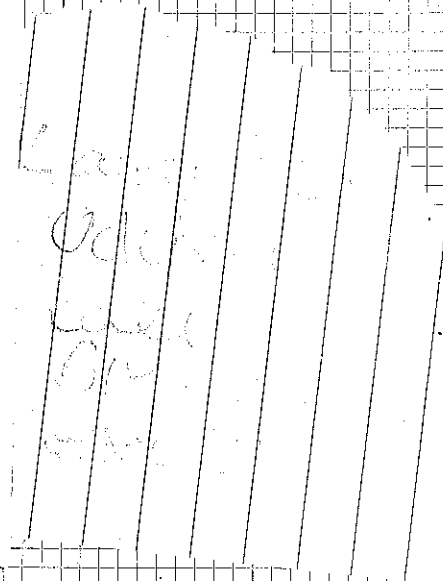
OK with OK

VB-7

5'

VB-7-2

15'



5-21-99

SPRING CRANK - OYSTERS BAY

0620 Lr OTC

0926 Arr at Oyster Bay Ldy

10130 - Berge's Shanty

11/1 2.5 mph
613 Data on Pintail

7-11

1500 Lr OTC for Stuart

2230 Arr at Stuart

7-12-99

0715 Meet up w/ Jim Linder

Load Up Supplies

1047 Fresh Prawns

Lunch

Head for Sampling Loc.

1142 Collect M-16 GS

27 10.663

80 05.348

M-16

12 Oct-99

Attempt to collect M-19

27 10.781

80 04.390

After 6 attempts
was only able to
bring up small qty
of JTB sd/silt

M-20

1224

27 10.716

80 03.037

3 tries only collected
JTB sd + silt

M-17

1244

2709.75

5005.55

3 tries

M-5

1 try found sd but
no evidence of live

7-12-97

M-16

1306

27 07.63

60 03.62

3 Times

Mostly VFg to SD w/alt

M-15

1323

27 08.700

60 03.070

2 times mostly FG SD

M 14

1335

27 06.77

60 04.43

3 Times VFg SD to Silt

M 13

1354

27 07.49

60 03.97

FG - VFg SD w/silt

7-12-97 1915

M-12

27 07.83

60 02.59

mg > FG SD

w/some silt

M-11

1426

27 06.93

60 02.52

mg - FG SD

4 times

M 10

1501

27 06.78

60 03.73

FG to VFg SD

isolated shell frags

M-9

1526

27 08.53

30 02.48

VFg SD, 4 times, minimal recovery

7-12-99
M-6 1547

27 04.65
60 01.95

4 + n
mg - fg sd

M 3/7 1604
Vg → 27 03.728
80 02.002

LOW
GND

Vs Sparse Recovery
Rock Frags? Shell?
Sand numerous Looks good
Mn
Soft Coral

M 6 1426
27 02.64
60 02.12

2 + trees
Good numerous Good looking sd

7-12-99
M 5 1655

27 01.86
60 01.07

3 Empty 100' Cords
Added 25' line
Good Recovery w/ m 6 sd
Looks good
Cable is OK by - 1 m

M 4 1706

27 01.81
60 01.85
Good looking sd

M 3 1725
27 00.81
80 01.00
Good m 6 sd

7/2-99

M-2 17286

26 59.53

80 01.27

M-1 1749

26 56.67

80 00.86

2 tries

Recover

Gorgonids & Halmed

& Un Identified mollusks

No sample collected

Lava GROWING

7/3 99

0743 West of Hotel, get
supplies & lunch

SL1

0743 An on Sta

2

27 12.80

80 04.80

2 Tries Good Luckless

MG SL

SL2 1015

27 14.83

80 06.63

Ufg sd-slt

sure several

6 tries from hearing

SL3 1028

27 14.73

80 05.24

Good MG SL

Also SD & many

Nice looking

7-3-99

SC4 1045

27 16.51

80 05.97

Good Looking MC SD

2 tries

SC6 1056

27 17.35

80 05.99

Good Looking MC SD

2 tries

SC5 1115

27 17.67

80 08.87

Good Looking MC SD

2 tries

1121 NO SAMPLE COLLECTED

27 18.44

80 08.96

SAW SWALLOW BOTTOM TOOK GRAB

FOUND 100% 100% I shell material (Amphispina
Corymbus)

7-13-99

1130 SC7

80 08.41

27 18.79

2 tries

Good Looking MC SD

1153 SC8

27 18.77

80 05.40

MC SD

Good Looking

2 tries

~~1515~~ 1215 SC9

27 20.76

80 09.51

2 tries

MC SD Looks Good

1230 SC11

27 22.85

80 09.75

2 tries

MC-CA SD

Looks Good

7.13.99

1242 SL10

80 11.86

27 22.84

2 Tries

Good looking Mu-Ca sd

1316

SL12

80 25.76

80 09.03

4 Tries, Mu-Ca sd

w/ worm rock frags
numerous probably at top
of subelliptical reef

1328

SL14

27 26.82

80 09.01

3 Tries

Frags - of sd

1342

SL13

27 26.76

80 11.91

4 Tries Only 1 sample up shell
large frags, some complete, but many?

7.14.99

Meat at Habel

Park

Drop Sublim if Sulfuric Mamm

Leave Keys of feather

1033

1R1

27 29.29

80 11.08

3 Tries, all shell

material, some well
indicated,

No for beach

10.55

1R2

27 32.24

80 12.46

Lots of shell material

w/ ~~o~~ mu s/

1/2 M. Sael contact

~~some~~ many shells intact

1104

SL3 1R3

27 33.20

80 12.99

2 Tries, Good looking

Frags - mu sd, Good quality

7-14-99

1114 124

27 35.27

80 12.77

2 tries

Good FG-MG ~~PS~~ SD

1152 125

27 36.6

→ 29

80 12.09

2 tries

Low Molluscs

w/fg-cg sd

Low Bottom? No for Beach

1132

126

27 37.37

80 13.29

mg-cg sd lots of
big shell fragments
valves beach quality

1159

27 38.38

127

80 13.29

4 tries 2 shells caught
good mg sd, maybe too much shell?

7-14-99

1215

128

27 40.29

80 12.25

Lots of vfg + s. Hg material

2 tries

Too Many lines for Beach

1232

1210

27 42.43

80 15.55

4 tries

Lots of shell material
(complete valves)

w/Good Cambrian
MG-CG sd

1245

129

27 43.34

80 14.37

2 Tries

Good Looking MG-CG sd

Should be suitable for
beach

No complete shells

7-19-99

0700 Meet Dan at Hotel

Go to Court

Help Set up

Here Boomer

& Greg Brooks Chimp Unit

1730 Go Dock for Testing

1800 Begin Shooting MW-26

Platter Failed

26 58.1037

80 01.4095

No. 1st Platter malfunction

1632 start line

17

1827

26 58.1104

80 79.58.2383

End line in 300' water

1740 Start MW-27

26 59.1131 79 58.1010

No. 1st - platter w/ platter
Same to Dock

1830

End MW-27

26 59.0937 80 01.5683

Pick up equipment.

7-20-99

0700 Meet Dan at Hotel, Travel to Kent

0750 Go Kent

0911 Arr an station

Set up eq up

Boomer + Chimp

0912 MW-22 Start

80 02.3964

79 27 00.1694

1017

27 00.1288

Finish MW-22

79 58.1278

1034

79 57.4541

START MW-20

27 01.1545

Take Raps Notation ul

27 01.0642 79 59.7953 in chart

1125

Finish MW-20

79 80 02.1288

27 01.1035

1140

Start MW-18

27 02.0512

80 02.5663

1255

End MW-18

79 57.1934

27 02.1088

7-20-71

1327 m-16
START 27 03
79 57 7296
27 03 1069

Finish m-16 1426
27 03.0954 80 02, 8998

1456 Begin m-14
27 04.1076
80 03.2220

1616 end m-14
79 58, 1600
27 04.1682

Stopped Line in 300' water depth

1630 m-12 start
79 57.6366
27 08.1183

1735 80 03.7162 end m-12
27 05.0952

Now in at Hotel

7-21-71

Open meet w/ Dave as to Boat
Fuel Boat, 1. Purpose for Seal
0900 Arr at station

0910 start m-10
27 06.1466
80 04.5045

Not running Chry. Tied
will try off 7th Police tower

1050 Finish m-10
27 06.041
79 57.840
New Problems

Check tracks on NM File

1103 Start m-6
27 07.145
79 58.0148
End m-6
27 07.440
80 04.838

1300 Start m-6
27 06.185 80 05.230
End 27 05.162 79 55.0189
1415

1507 Start m-4
27 09.161 79 57.620
27 09.460 80 05.454

7-21-97

1654 Start m-z

27 10.131

80 05.998

1725 Finish m-z

27 10.158

79 56.955

P/U equipment

7-22-97

0800 Park + Lu Hotel

0930 Boat sails from Stuart to Ft Pierce

1030 Lu to Ft Pierce for shooting

1143 Start SL3

27 27.791

80 13.097

1313 end SL3

27 27.405

80 96.115

1330 Start SL1

27 28.833

80 07.065

1510

27 28.723

80 13.822

Head into port to meet w/ Ann at 1700
(Ft Pierce)

Ray Outing in Port

Turned to left then @ Sebastian + Ray (w/)

No space at Capt Hains

meet Ann at Dock @ 1700

7-23-97

0700 met + route to Lu for Boat - Ft Pierce

0815 Arr on station near Sebastian

Ray Up Sea Ancher

Outing for seaplane shooting

1049

Start 1129

27 48.199

80 21.131

1228

Finish 1129

27 48.119

80 14.327

1313

Start 1127

27 49.084

80 14.850

Finish 1127

1439

27 49.126

80 21.530

START 1125

1457

27 50.052

80 22.156

1624

Finish 1125

27 50.120

80 15.269

111 miles to home

7-24-97

0700 Lu Hotel for Boat

Finish Boat in Ft Pierce

1040 Arr on Sta for IR3 off Sebastian

1040

Start 80 14.098

1123

27 61.441

1231

Finish 1123 80 22.784

27 51.124

1257

START m 27 52.131

80 23.209

1428

F. WASH 1121 27 52.118

80 16.439

3.49 B-77
52.50 to 16.004

B-77
27 52.502/80 23.505

99

An in Station, Launch Hand Deploying Equip
B-75 First Aid Kit Sample, will go to Mark in shore

Start 27 53.32080 80 16.375
END 27 53.306 80 23.923

B-73

Start B-73 27 54.146 80 24.353

6 FISH B-73 27 54.129 80 17.363

START B-71

1354 27 54.902/80 17.644
1523 27 54.933 80 24.065

154 (155.3
air)

Hotel for Boat
First Aid Kit
etc to Am with injury
and Boat

in station B-49 69

Start 27 55.716 80 25.305
END 27 55.707 80 24.5315

Observer Failure

Continue up B-49 A

27 55.765 80 15.961
27 55.752 80 16.179

Observer Failure, No Alt

Start 1364

27 56.632 80 17.426
27 56.613 80 25.545

27 57.441/80 26.000

27 57.462/80 18.920

904 488-9380 (222)
488-8086 (100)

MARK CROSLY - BREVARD CO 904 407/633-2016
DON DONALDSON - INDIAN RIVER 888 407/567-8000
LEE WEBERMAN - MARTIN DON DONALDSON 407/288-5927
RICHARD BOUCHARD - ST LUCIE 888 407/462-1100
LARRY ZARULLO - FT
SEBASTIAN ZIMMELT DIST 407/768-8000 x7
407/724-5125

OLSEN - KEVIN 30062 JAX 904/387-6114
CARSTEN TECH - MIKE DOMBROWSKI VB 407/562-8580
JOHN - JAMES HEARN GVL

ACE - JAX 904/232-1697
3747

ANGIE WIGGINS - MMS 703/787-1293

GILBERT CELLULUM 813/580-0316 Room

PAUL SPEER 407/867-7575

DANA CURRAN 813/432-1124

ROB CELLULUM 850/933-6994/933-6995

GRACE BROWNS 727/864-8992 AL 367-5221 home

893-2221
FIO 893-9100 0209
-498

SUNCOM

545-9100

Exxon Wm

DON
WINDOWS
→ 222-8100

SAT 2

2 Lines B54, B56

→ Return ~~0209~~ ??

Seas picking up
Late Start

Sure White Caps
on way to Line

ST. JOE BAY SEIS. SHOOT

West Pt.

029° 46' 20"

085° 24' 00"

EAST Pt.

029° 46' 20"

085° 18' 40"

Kennedy Access
Dr. Bill Knott 407 853-5142 (Colleen Son.) - Clearance
Carlton Hall 407 853-3281 - Schedule Escort

KYURT 0900 3950
SOUTHERN 1000 7251
SUMMIT 1200 14245

GRAB SAMPLE LOCATIONS

LATITUDE	LONGITUDE	GS #	LINE #	SHOT #	TOPO HIGH	TOPO LOW	SFC ANOMALY	10 ms DROPOUT	COMMENTS
✓ 28d23.42m	80d26.53m	GS27	B4	?	X			X	
✓ 28d22.17m	80d27.19m	GS26	B7	6200			X		on slope
✓ 28d21.34m	80d28.06m	GS25	B9	15000		X	X		
✓ 28d20.48m	80d26.72m	GS23	B11	3350			X	X	flat
✓ 28d20.48m	80d29.72m	GS24	B11	14200					control
✓ 28d18.77m	80d27.92m	GS22	B15	6250			??		flat
✓ 28d17.87m	80d30.20m	GS21	B17	8400			??		flat
✓ 28d15.19m	80d27.09m	GS20	B23	18250				X	close to TH
✓ 28d14.76m	80d29.79m	GS19	B24	15300					control
✓ 28d13.88m	80d28.80m	GS18	B26	14500		X	X	X	
✓ 28d12.99m	80d28.89m	GS17	B28	11750	X		??		
✓ 28d12.99m	80d29.32m	GS16	B28	13250				X	on slope
28d12.11m	80d30.35m	GS15	B30	6450		X		X	
28d11.65m	80d28.97m	GS14	B31	10150	X				
28d10.76m	80d30.92m	GS13	B33	24200	X		X		poor quality data
28d09.43m	80d28.49m	GS12	B36	12650					control
28d08.93m	80d25.77m	GS11	B37	3700			??	X	on slope
28d08.06m	80d26.41m	GS10	B39	13600	X		X	X	
28d07.61m	80d29.39m	GS9	B40	13450					control
28d05.17m	80d27.94m	GS8	B45	9000			X	X	
28d05.91m	80d25.14m	GS28	B44	4400		X			
28d05.09m	80d26.30m	GS29	B46	12475	??				pinch-out
28d00.20m	80d25.58m	GS7	B58	15800	??				
✓ 27d58.00m	80d29.04m	GS6	B64	12050	X		X		
✓ 27d56.13m	80d19.39m	GS5	B68	21600				X	flat
✓ 27d55.32m	80d23.22m	GS4	B70	16500			X		flat
✓ 27d52.93m	80d22.33m	GS3	B76	5700		X		X	
✓ 27d52.92m	80d20.32m	GS2	B76	13600	X			X	
✓ 27d52.91m	80d19.46m	GS1	B76	17000	X		X		