

Dis mantling offshore
morning — water depth
160 cm

Begin tow in @ 8:53

Nearshore Porewater @ 50cm

Restart: 8:15

Ra stop: 8:24

pH collected: 8:31

smart bottle

Collected majors using Geotech
filter

started purging: 11:56

USGS 1 consists of:

USGS RAD7s

HOB0 A/Blue (7730)

Blue taped probe

USGS 2 consists of:

VF RAD7s

HOB0 B/Green (7723)

Green taped probe

USGS 1 Test start: 12:35

USGS 2 Test start: 12:39

YSI started: 12:20

17:48

Generator On: 12:33

17:46

Pumps on: 12:34

Transect	Direction	Start time	Stop time
T1A	N-S	12:59	13:35
T1B	S-N	13:44	14:03
T1C	N-S	14:15	15:08
T2A	S-N	15:19	15:39
T2B	N-S	15:47	16:24
T2C	S-N	16:33	16:53
T3A	N-S	17:07	17:46

CRP Settings

- Electrode Spacing 5m
- GPS Electrode offset - 10 m
- Survey info X as - 15m
- Using 5m pigtail

TXOVL on EGN602 every few minutes

Crab trap right on ~~the~~ middle of line so slight curve westward to avoid it (EGN603)

Wind 10 knots out of S-SE

TXOVL on EGN604 every few minutes — potentially due to wind pushing too us fast on the S-N direction

Stopped YSI @ 15:42 to check that salinity was logging since it was not on the display screen

Restarted YSI @ 15:43 w/ salinity displayed

Transect	Direction	Start	Stop	corresponding
EGN601	N-S	12:57	*	T1A
EGN602	S-N	13:43	14:04	T1B
EGN603	N-S	14:14	*	T1C
EGN604	S-N	15:19	15:41	T2A
EGN605	N-S	15:46	16:29	T2B
EGN606	S-N	16:32	16:57	T2C
EGN607	N-S	17:04	17:	T3A

* Not recorded

- Sporadic TXOVL on EGN605
- TXOVL every few minutes on EGN606
- Generator off @ 16:55 to refuel and back on @ 17:02
- Sporadic TXOVL on EGN607

started purging: 7:37

USGS 1 consists of:

USGS RADTs

HOB0 A / Blue (7730)

blue taped temp probe

USGS 2 consists of:

UF RADTs

HOB0 B / Green (7728)

Green taped temp probe

USGS 1 Test start: 8:11
stop 14:38

USGS 2 Test start: 8:15
stop: 14:41

Generator on: 8:09

Pumps on: 8:10

YSI started: 8:09

Transect	Direction	start time	stop time
T3A	N-S	8:18	8:42
T3B	S-N	8:44	9:10
T3C	N-S	9:15	9:44
T4A	S-N	9:52	10:18
T4B	N-S	10:23	10:50
T4C	S-N	10:56	11:22
T5A	N-S	11:29	11:57
T5B	S-N	12:01	12:24
T5C	N-S	12:30	12:56
T6A	S-N	13:04	13:25
T6B	N-S	13:31	14:06
T6C	S-N	14:13	14:32
T7A	S-N	14:13 17:07	17:21
T7B	N-S	17:22	17:45
T7C	S-N	17:44	18:02

Note: Garmin transducer running for T3A + T3B

lowrance GPS + transducer turned on @ T3B halfway

Wind conditions T3B — 5 knot wind from the south

CRP Settings:

- Electrode Spacing 5 m
- Survey info X as - 15 m
- GPS Electrode offset - 10 m
- Using 5 m pigtail

lowrance reporting depth of 1.5 m when depth is 1 m or less on T5A/EGN612, T5B/EGN613, and T5C/EGN614

Changed out USGS2 drierite column @ 12:28

Garmin also not producing correct depths for T5

Generator turned off to refuel @ 12:57 and turned back on @ 13:02

Transect	Direction	start	stop	corresponding
EGN608	N-S	9:15	9:45	T3C
EGN609	S-N	9:51	10:20	T4A
EGN610	N-S	10:23	10:53	T4B
EGN611	S-N	10:56	11:23	T4C
EGN612	N-S	11:29	11:59	T5A
EGN613	S-N	12:02	12:27	T5B
EGN614	N-S	12:30	12:59	T5C
EGN615	S-N	13:03	13:27	T6A
EGN616	N-S	13:31	14:10	T6B
EGN617	S-N	14:13	14:34	T6C
EGN618	notes	14:43	14:27	_____

- Wind picked @ around 13:30 to about 8-10 knots, still from South.
- Lawrence transducer reporting incorrect depth of 0.9 m for duration of T6A, T6B.
- TC reported 3.5 m water depth.
- Generator off @ 14:37
- Wind picked to ~10-12 knots @ ~~14:50~~ 14:50

- Started on shore 1 line @ northern most line going W-E
- #267 @ 15:03 turn started
- #363 @ 15:16 begin 2nd turn
- #~~267~~ @ 15:13 turn finished w/ cable straight and heading @ 2nd most northern line E-W
- #603 @ 15:27 turn started
- #636 @ 15:29 end turn
- #725 @ 15:35 start to line
- #755 @ 15:37 turn finished w/ cable straight and heading @ 3rd most northern line W-E
- #~~1026~~ @ ~~15:58~~ 15:58 turn started
- #1053 @ 16:00 end turn
- #~~1170~~ @ 16:08 start turn to line
- #1170 @ 16:10 turn finished w/ cable straight + heading to southern most line E-W
- Started purging: 15:59
- Generator on: 16:37 (+ pumps)
- USGS 1 Test start: 16:38
- USGS 2 Test start: 16:41

- For T7 only Garmin GPS — no lowrance for this line

Generator off: 18:03

Pumps off: 18:03

V8I stopped: 18:04

USGS 1: 18:04

USGS 2: 18:07

Transect	Direction	start time	stop time	corresponding
RWP001	S-N	14:31	15:04	T1
RWP002	N-S	15:13	15:38	T2
RWP003	S-N	15:45	16:13	T3
RWP004	N-S	16:17		T4
RWP005	S-N	#		T5

Started purging: 13:21

YSI started: 13:58

Cheyenne set Hobos to record every ~~10~~ second so will delay Rn til tomorrow

- Wind 8-10 knots from the south west
- Started out RWP002 slightly north of T2 due to 2 tri-marans in our way — will get back on T2 slowly

CRP Settings:

- Scaling factor 5 m
- GS-Electrode offset -10m
- Survey Info X as -15 m
- Using 5 m pigtail

Transect	Direction	start time	stop time
T1A	S-N	8:21	8:45
T1B	N-S	8:46	9:15
T1C	S-N	9:17	9:42
T2A	N-S	9:47	10:15
T2B	S-N	10:17	10:44
T2C	N-S	10:45	11:15
T3A	S-N	11:22	11:46
T3B	N-S	11:48	12:14
T3C	S-N	12:15	12:41
T4A	N-S	12:51	13:18
T4B	S-N	13:19	13:50
T4C	N-S	13:54	14:17 14:17
T5A	S-N	14:24	14:55
T5B	N-S	15:00	
T5C			

Started purging: 7:20

USGS 1 consists of:

USGS RAD7s

HOB0 A/Blue (7730)

Blue taped probe

USGS 2 consists of:

UF RAD7s

Black HOB0 / U54828

Black taped probe

USGS 1 Test start: 8:18

USGS 2 Test start: 8:21

Generator on: 8:09

Pumps on: 8:10

YSI started: 8:05

Note: using different HOB0 for USGS 2 than usual due to HOB0 B malfunctioning

Transect	Direction	Start	Stop	Corresponding
RWP006	N-S	13:54	14:17	T4C
RWP007	S-N	14:24	14:57	T5A
RWP008	N-S	15:00		T5B

- Depth data being pulled from Garmin ^{from 2265+ 2528}
- 2531 is 1 second or less off potentially due to lag in response time — started multiple times but could not get exactly in time
- Wind 5-8 knots from the West at start of T1A ^{speed variable gusts up to 12 knots}
- Wind picked up towards the last third of T1B to 12 knots causing slight drift ~~to~~ on transect
- Between 10:45-11:00 drifted off transect about 20m to the east (T2C)
- Switched out drierite columns in both US651 + 2 @ 11:18
- 12:43 generator off to refuel and back on @ 12:45
- Winds have been very variable as little storm cells form and pass to our north

- Wind conditions during T4A + T4B much stronger ~ 20 Knot in comparison to T4C w/ about 2 knots
- Rain ~~shower~~ shower passed thru @ 15:20
- Rain shower passed but noticed larger cell approaching from west and packed up
- Left RWP @ ~15:30

started purging: 7:47

USGS 1 Consists of:

USGS RAD7s

HOB0 A/ Blue (7730)

Blue taped probe

USGS 2 consists of:

UF RAD7s

Black HOB0 (4828)

Black taped probe

USGS 1 Test start: 8:15
11:13

USGS 2 Test start: 8:19
11:13

Generator on: 8:12 off: 11:12

Pumps on: 8:14 11:12

YSI started: 8:11 11:12

Sonar logging: 8:21
(Lowrance)

Garmin

Transect	Direction	start	stop	Depth	End depth
T5A	S-N	8:22	8:42	2m	1.4m
T5B	N-S	8:43	9:12	—	2m
T5C	S-N	9:14	9:37	2m	1.4m
T6A	N-S	9:41	10:07	1.5m	—
T6B	S-N	10:13	10:36	1.7m	1.4m
T6C	N-S	10:41	11:08	—	—

Transect	Direction	start	stop	corresponding
RWP609	N-S	9:41	10:10	T6A
RWP610	S-N	10:12	10:38	T6B
RWP611	N-S	10:42		T6C
RWP612				

Notes

Scale

- Transducer for Lowrance → depth 0.4 m
 - Transducer for Garmin → depth 0.3 m
 - Depths seem to be consistently 0.3 m offset btwn Garmin + Lowrance
 - Depth in Rn mapping table was recorded @ beginning of transect
- CRP Settings:
- Electrode Spacing 5 m
 - GPS-Electrode offset -10 m
 - Survey Info X as -15 m
 - Using 5 m pigtail
 - We have been using bridle for CRP cable

Transect	Direction	start	stop	Depth
T7A	N-S	8:46	9:00	
T7B	S-N	9:02	9:22	1m
T7C	N-S	9:28	9:49	1m

Transect	Direction	start	stop	corresponding
RWP612	N-S	9:28	9:45	<u>T7C</u>
RWP613	see notes	9:54	11:22	

Started purging: 8:00

USGS 2 Test start: 8:32
stop: 9:41

USGS 2 Test start: 8:44

Generator on: 8:29 off: 9:53

Pumps on: 8:30 off: 9:52

VSI started at: 8:29

off: 11:23

- 9:54 @ #3 Start Southern most shore \perp w/ cable straight going W-E
- 10:05 @ #135 started turn
- 10:07 @ #164 ended turn
- 10:08 @ #179 begin turn
- 10:09 @ # straight on 2nd most southern \perp going E-W
- 10:19 @ #337 begin turn
- 10:23 @ # ended turn
- 10:25 @ #434 straight on line W-E
- 10:36 @ #568 start turn
- 10:39 @ #606 end turn
- 10:45 @ #681 start turn
- 10:49 @ #738 straight on 2nd most northern \perp going EW
- 10:58 @ #877 start turn
- 11:07 @ #1011 start turn to line
- 11:10 @ #1053 straight on northern most \perp going W-E

- USGS 2 mapping sys unable to start w/o a one second offset between each
 BUT today 2531 did not have one second delay
- Due to fishing boat, about 25 m off line near island on T7A
 - 1534 is 1 sec faster than 1186 and 1533 is 1 sec slower than 1186