

ENAM Passive OBS Recovery (Endeavor Cruise EN554) March 27/April 09 2015

Station Name C04 WHOI OBS ID S01
 Surveyed location 34°52.7860N 74°38.7876W Water depth (m) 3023.3
 Novatech radio freq. (MHz) 160.785
 Edgetech#1 33077 Interrogate 11 kHz / Reply 11.5 kHz
 enable 316445 disable 316466
 release 1 333477 release 2 333506 option 316517
 Edgetech Deck-Box S/N 42805 8011A or M M Transducer HULL

Confirm Ship's Position Conforms to Station Location: ✓

Disable ship acoustics (Knudsen, ADCP, etc) ✓

EdgeNmea.py

Start range tracking program

- file name Sxx (program completes name) S01-C04
- if 8011A deck box, turn on RS232 output

Edgetech 8011A/M

Enable acoustics, check Guralp status, Edgetech#1

- UTC date 11 2015-04-01
- UTC time 11:00 20.7 NM, period (s) 1
- send enable command, confirm reply, # pings 15
 (more than 8 pings = Guralp ready, fewer than 8 = not ready)
- if repeats necessary
- UTC time _____
 - record repeated enable commands sent _____
- ranges 3231, 3216
- assessment: Guralp ready ✓, not ready _____

Lock Guralp (release 2 command), Edgetech#1

Edgetech 8011A/M

- UTC time 11:07 after numerous attempts underway, finally get response after lowering to power level 1, period (s) 1
- send release 2 command, confirm reply, # pings 15
- time of last reply ping (sec. of the minute) 17
- # burning pings/minutes 111
- # burning pings/minutes _____
- burn shutdown confirmation, # pings 7, period (s) 1
 (shutdown after 1 to 3 minutes => Guralp locked; after 15 minutes => Guralp not locked)
- if repeat necessary, UTC time _____
- send release 2 command, confirm reply, # pings _____, period (s) _____
- time of last reply ping (sec. of the minute) _____
- # burning pings _____, # mins _____
- burn shutdown confirmation, # pings _____, period (s) _____
- assessment: Guralp locked ✓, not locked _____
- ranges 3014, 3015

ENAM Passive OBS Recovery (Endeavor Cruise EN554) March 27/April 09 2015

Station Name C04

WHOI OBS ID 501

Edgetech 8011A/M

Release/burn (release 1 command), Edgetech#1

- UTC time 11:11, period (s) 1
- send release 1 command, confirm reply, # pings 7
- time of last ping (second of the minute) 31 *Birth was double*
- # burning pings/minutes 111, period (s)
- burn shutdown confirmation, # pings
- ranges 2492, 2478

- if repeat necessary, UTC time , period (s)
- send release 1 command, confirm reply, # pings
- time of last ping (start of 15 minute burn)
- # burning pings/minutes , period (s)
- burn shutdown confirmation, # pings
- ranges

- if repeat necessary, UTC time , period (s)
- send release 1 command, confirm reply, # pings
- time of last ping (start of 15 minute burn) # mins
- # burning pings , period (s)
- burn shutdown confirmation, # pings
- ranges

Track package during ascent

- estimated rise time duration (min) 75, est. rise rate (m/min) 40
- estimated liftoff time (UTC) 11:14
- estimated surface time (UTC) 12:29

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Station Name 0404

WHOI OBS ID SØ1

If no release with Edgetech#1

Edgetech#2 _____ Interrogate _____ kHz / Reply _____ kHz
 enable _____ disable _____
 release 1 _____ Option _____

Enable acoustics, Edgetech#2

Edgetech 8011A/M

- UTC date _____
- UTC time _____
- send enable command, confirm reply, # pings _____, period (s) _____
- if repeats necessary _____
- UTC time _____
- record repeated enable commands sent _____
- ranges _____
- assessment: Guralp ready _____, not ready _____

Release/burn (release 1 command), Edgetech#2

Edgetech 8011A/M

- UTC time _____
- send release 1 command, confirm reply, # pings _____, period (s) _____
- time of last ping (second of the minute) _____
- # burning pings/minutes _____
- burn shutdown confirmation, # pings _____, period (s) _____
- ranges _____
- if repeat necessary, UTC time _____
- send release 1 command, confirm reply, # pings _____, period (s) _____
- time of last ping (start of 15 minute burn) _____
- # burning pings/minutes _____
- burn shutdown confirmation, # pings _____, period (s) _____
- ranges _____
- if repeat necessary, UTC time _____
- send release 1 command, confirm reply, # pings _____, period (s) _____
- time of last ping (start of 15 minute burn) _____
- # burning pings _____, # mins _____
- burn shutdown confirmation, # pings _____, period (s) _____
- ranges _____

Track package during ascent

- estimated rise time duration (min) _____, est. rise rate (m/min) _____
- estimated liftoff time (UTC) _____
- estimated surface time (UTC) _____

ENAM Passive OBS Recovery (Endeavor Cruise EN554) March 27/April 09 2015

Station Name c04

WHOI OBS ID S01

Notes during package ascent

Recover

- Novatech radio received, UTC time _____ - visual sight, UTC time 12:27:23
- on board, UTC time _____ touch the deck 12:27:34

OBS on deck

- Novatech flasher working(Y/N) Y - Novatech radio working(Y/N) N

OBS condition

- stop EdgeNmea logging program (^C) _____ - switch off Deck-Box _____
- restart ship acoustics _____ - confirm next station with bridge _____