

Dive Plan 4897– April 30, 2017

Port: Horst Felbeck **Starboard:** Phil Forte **Pilot:** Danik Forsman

On Bottom Target: Crab Spa

Objectives: Release LVP at Crab Spa, take majors, pick up Crab Trap, collect Riftia

Basket List

1. Large biobox w/ Crab Trap
2. 5 Majors
3. T probe

<u>Locations:</u>	Lat	Long	m	x	y
Pvent	9 50.276	104 17.474	2511	4628	77926
Bio9	9 50.296	104 17.476	2514	4624	77962
Crab Spa MkF	9 50.396	104 17.489	2505	4600	78147
Tica	9 50.406	104 17.490	2505	4598	78165
Teddy Bear	9 50.50	104 17.51	2514		

1. On bottom, transit to Crab Spa
2. Release LVP
3. Take 5 majors at warmest spot, should be around 23-25°C, look for spot in right, back corner of Crab Spa
4. Swap Trap with new one in the biobox
5. Collect Riftia around Alvinella mound
6. Before collecting Riftia, proceed with following:
 - a. Measure T at base of Riftia clump
 - b. Make a T measurements at various spots at plume level
7. Proceed with collection and put worms in large biobox. Make sure worms fit into biobox and nothing sticks out. Don't fold them!

Alvin Dive 4894 – AT37-12
APR 30, 2017

Pilot: Danik Forsman (PIT)
Port Observer: Horst Felbeck
Starboard Observer: Phil Forte

GMT	comments
14:05	in the water
15:40	at the bottom
15:53	found LVP, intake in place inside crab spa, video. Temp. at intake measured with basket temp. probe 18.5 C
16:40	wand in quiver
16:51	release LVP
17:14	start taking majors inside Crab Spa, blue: 23.7 C
17:22	yellow 31.3C
17:31	green 22.5C
17:42	black 21.4C
17:52	red 21.8C
18:14	collect old crab trap, about 7 crabs and 3 fish inside
18:15	deploy new crab trap at the same spot, entry towards the Riftia bundle
18:40	collect Riftia at the bottom of the large Alvinella mound below crab spa, temp. measure with basket probe is 3.2C deep inside the Riftia clump where collection was made. About 10 midsize Riftia collected
17:26	continue PIT training
19:50	at the surface

AT 37-12 Sample Sheet

Alvin Dive# 4897 Date 4/30/17 Logged by HORST FELBECK
 Port Obs. HF Starboard Obs. PHIL Pilot DAMIK
 Descend: 18:05 At Seafloor: 15:40 Ascend: 19:50

FLUID SAMPLES crab spa T before major basket pole 24°C
 Major# _____ Time _____ Temp ICL _____ Vent _____
 X _____ Y _____ Hdg _____ Depth _____ Alt _____ Marker _____ (type/#)
 Comments _____

Major# blue Time 17:14 Temp ICL 23.7 Vent crab spa
 X 4588 Y 78147 Hdg 8 Depth 2505 Alt _____ Marker _____ (type/#)
 Comments _____

Major# yellow Time 17:22 Temp ICL 31.3 Vent crab spa
 X _____ Y _____ Hdg _____ Depth _____ Alt _____ Marker _____ (type/#)
 Comments see above

Major# green Time 17:31 Temp ICL 22.5 Vent crab spa
 X _____ Y _____ Hdg _____ Depth _____ Alt _____ Marker _____ (type/#)
 Comments see above

Major# black Time 17:42 Temp ICL 21.4 Vent _____
 X _____ Y _____ Hdg _____ Depth _____ Alt _____ Marker _____ (type/#)
 Comments _____

Major# red Time 17:52 Temp ICL 21.8 Vent _____
 X _____ Y _____ Hdg _____ Depth _____ Alt _____ Marker _____ (type/#)
 Comments _____

BIOLOGICAL SAMPLES

Take photos before collection, in the claw (if possible), and after collection.
 If needed, make sketches with scales.

Sample # 1 Time 6 Temp below ^{3.3} plume ² Vent bottom of large chamber mound
 X 4577 Y 78153 Hdg 62 Depth 2514 Alt _____ Marker _____ (type/#)
 Sample type _____
 Basket location _____

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- wand on quiver 15:40
1. On bottom, transit to Crab Spa ^{15:53} found LVP - viclo
 2. Release LVP ^{16:51} Temp - of wand Temp pole lower at Temp 2.2C 16:24-27 18.5C
 3. Take 5 majors at warmest spot, should be around 23-25°C, look for spot in right, back corner of Crab Spa ^{insert No - wand}
 4. Swap Trap with new one in the biobox ^{18:14 old ~~biobox~~ crab trap in bio. 18:15 new crab trap deployed}
 5. Collect Riftia around Alvinella mound
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