

Surface Buoy
WHOI Float
with 2 mast mounted Iridium Beacons

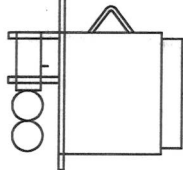
Winfro Swivell

1M of 5/8" Chain
Connected to Swivell with M12 Shackle

Downward Facing RDI Workhorse
Mounted in Mooring Cage

Clamp on Wire Stopper

Seahorse Profiler
With Seabird 19+ including O2 and OCR
FRRF included



Note:
All connections are made with M12 Shackles with cotter pins.
All mooring components supplied by BIO

200m of 5/16" Seahorse Mooring Wire

Clamp on Wire Stopper

Upward Facing RDI Workhorse
Mounted in Mooring Cage

1m of 5/8" Chain
Connected to Buoy with M12 Shackle

Winfro Swivell

2 Lead Bottom Weights
Attached together with 1m of 5/8 Chain
280Lbs.



Placement

Mooring No. Ross Sea Deployment #1
 Geographic Area: Ross Sea - West Intended Duration 3-4 days
 Ship: R/V I.B. Palmer Mission No: NBP12-01 Date: 15 Jan 2012
 Weather/Sea Conditions: Cloudy, Wind Speed 5 Kts, Sea 0.5 m
 Mooring Technician: Randy King Type of Navigation: DGPS
 Latitude: -76 43.8'S Longitude: 170° 28.4'E Time of Fix: 0355
 Main Float: Type: W/OT Markings: Yellow/Blue
 Beacon: Type: Iridium I.D. #: 620 and 990
 Mooring Line: Type: Jacketed Steel Colour: Yellow
 Release: Type: N/A S/N: - Release Code: - Frequency -
 Sounding:

*In drifting mode

	LSR	Knudsen(____ khz)	Other _____
SV of Recorder	1463 m/s	_____ m/s	_____ m/s
Initial Depth	_____ fms	_____ m	_____ m
Xducer Depth	_____ m	_____ m	_____ m
Initial + xducer	_____ m	_____ m	_____ m
Depth Corrected	_____ m	_____ m	_____ m
@ SV = _____ m/s	@ SV = _____ m/s	@ SV = _____ m/s	

Placement Log Event # NBP1201091

Time (Z)	Instrument	Remarks
0400	Seathorse	Deployment aborted due to accidental release of the bottom weight and ADCP on the deck. The slip release was accidentally pulled dropping part of the ADCP/clump weight on the deck, the wire securing the the clump weight failed and the weight dropped in the water. The jacket on the wire was damaged so we had to recover the mooring.

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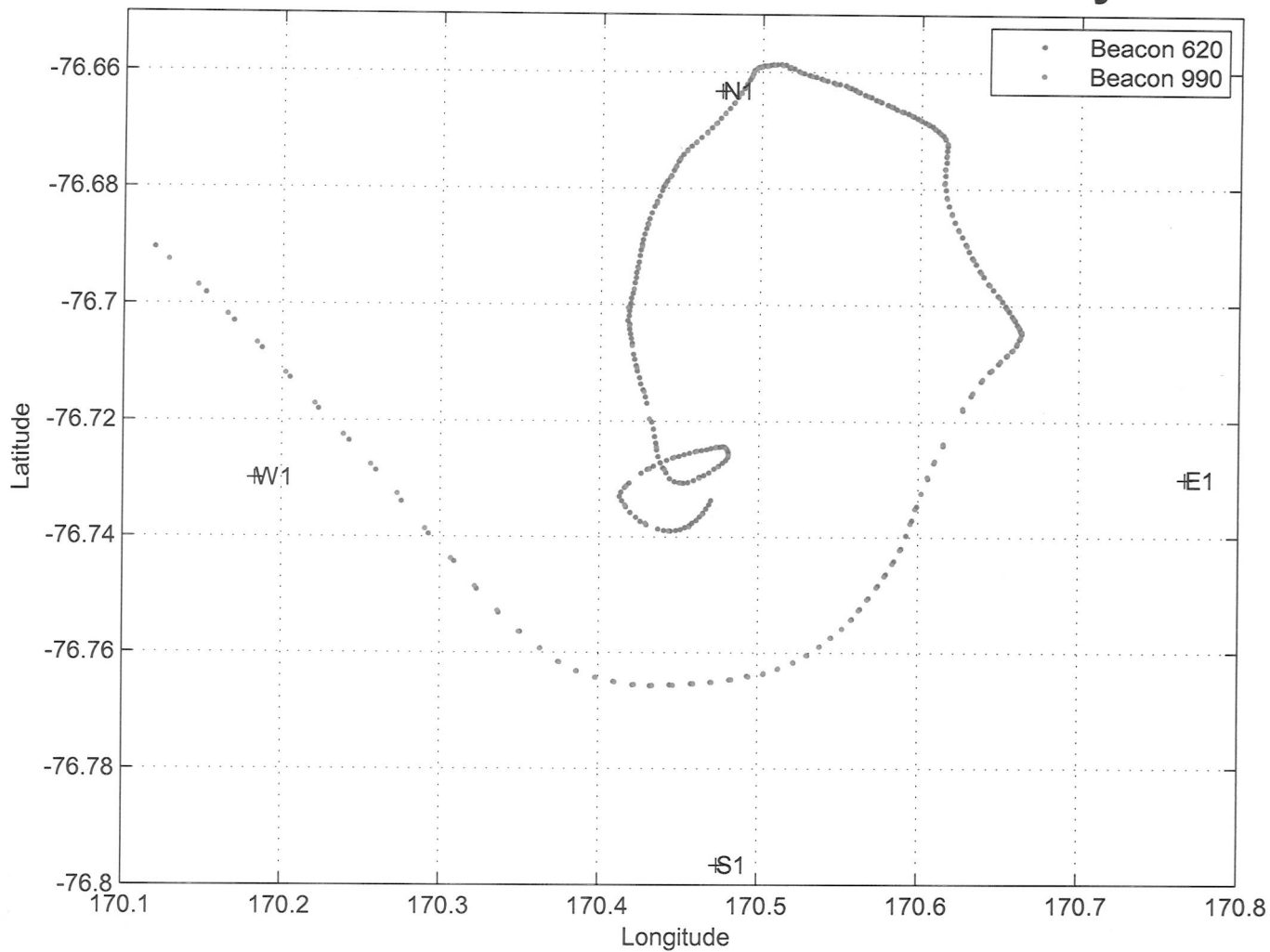
Recovery

Mooring No: Ross Sea #2
 Ship: N.B. Palmer Cruise No: NBP12-01 Date: 19 Jan 2012
 Mooring Tech: Randy King
 Type of Nav: GPS
 Weather Conditions: Wind 25 Kts, Cloudy
 Cancel Notship: Yes No NA

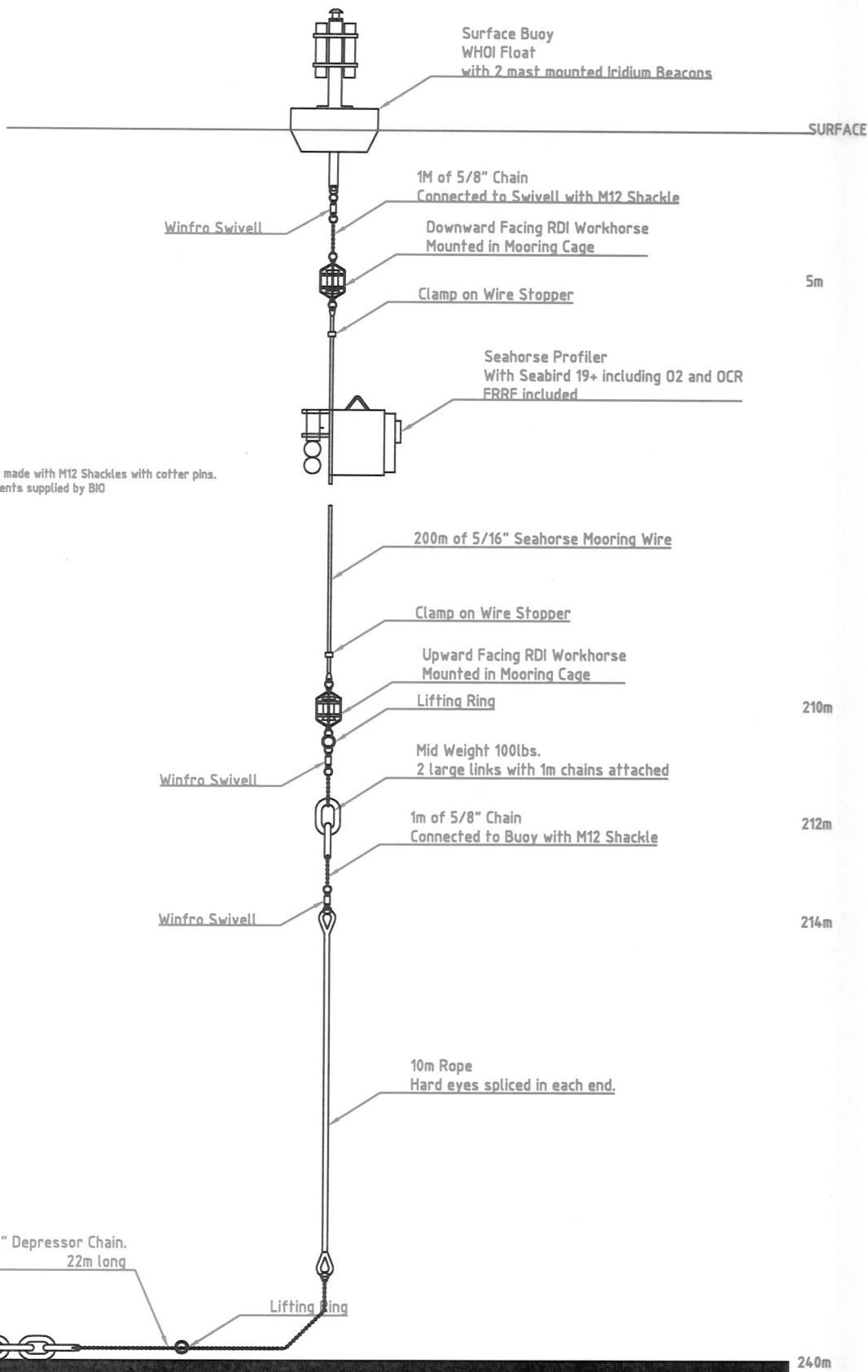
Recovery Log

Time(Z)	Instrument	Remarks
0010 0015		Buoy + Top ADCP - out of water at 0010 UTC
0030 UTC		seathorse and bottom ADCP out of water
0040		- All secure on deck.
		76° 42.1' S
		170° 05.7' E
		0055 UTC - Downlooking ADCP on
		0100 UTC - seathorse clamp cycled. but FRRF did not flash
		0105 UTC - Uplooking ADCP on.
		It appears there was no FRRF data collected on this deployment

Iridium Locations on SeaHorse Buoy



S2



Note:
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SURFACE

5m

210m

212m

214m

240m

Placement

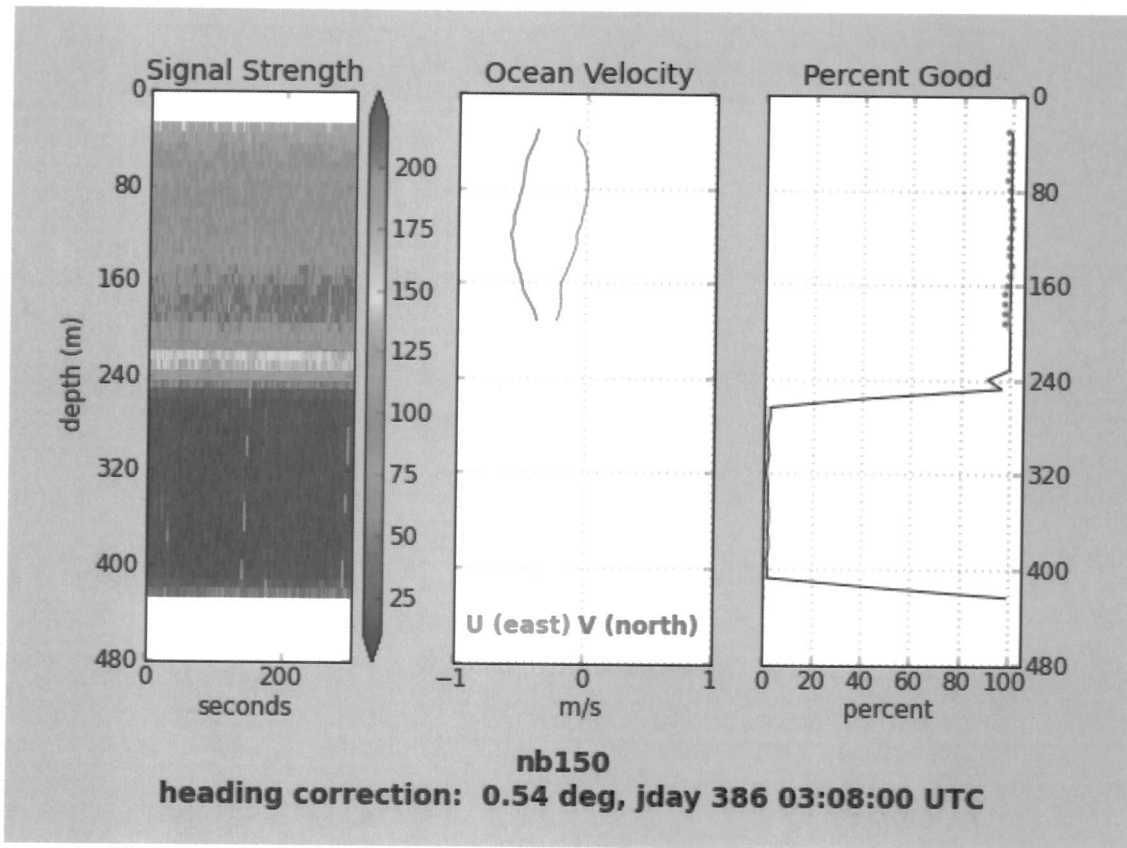
Mooring No. Ross Sea #3
 Geographic Area: Ross Bank, Antarctica Intended Duration 10 days
 Ship: R/V B Nathaniel B Palmer Mission No: NBP12-01 Date: 21 Jan 2012
 Weather/Sea Conditions: 1 m sea,
 Mooring Technician: Randy King Type of Navigation: GPS
 Latitude: -76 39.6035 Longitude: 179° 15.193° E Time of Fix: 0255 UTC
 Main Float: Type: WHOI Markings: _____
 Beacon: Type: Iridium I.D. # 660 + 920 (two WHOI beacons)
 Mooring Line: Type: Jacketed steel Colour: yellow
 Release: Type: N/A S/N: _____ Release Code: _____ Frequency _____
 Sounding: _____

	LSR	Knudsen(____ khz)	Other _____
SV of Recorder	1463 m/s	_____ m/s	_____ m/s
Initial Depth	_____ fms	_____ m	_____ m
Xducer Depth	_____ m	_____ m	_____ m
Initial + xducer	_____ m	_____ m	_____ m
Depth Corrected	_____ m	_____ m	_____ m
@ SV = _____ m/s	@ SV = _____ m/s	@ SV = _____ m/s	@ SV = _____ m/s

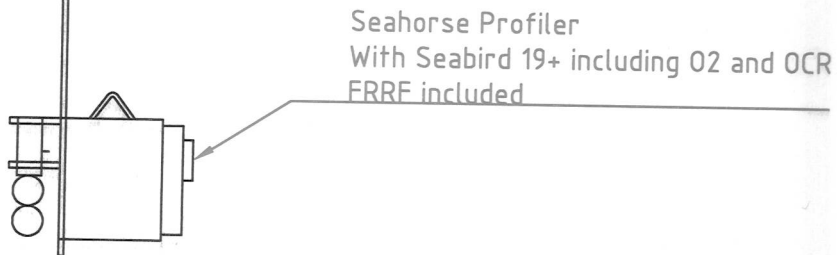
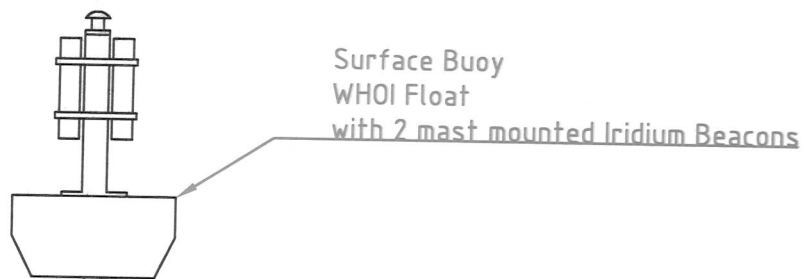
Placement Log

Time (Z)	Instrument	Remarks
		Instrument Package
		(1) Seahorse with SBE19 plus CTD, Wetlabs Wetstar fluorometer, SBE43 oxygen sensor, Satlantic OCR504i irradiance sensor and Chelsea FRRF
		(2) 300kHz Workhorse ADCP at top and bottom of mooring wire.
0253 UTC		Anchor is away
		Sounding (Multi-beam) 223m

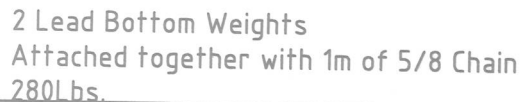
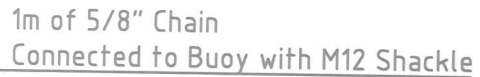
Down-looking ADCP S/N 9184
 Up-looking ADCP S/N 14074



Velocity profile for VM-ADCP at
 time of Seathorse mooring deployment
 21 Jan 2012.



Note:
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All mooring components supplied by BIO



Placement

Mooring No. Ross Sea Deployment #4
 Geographic Area: Western Ross Sea Intended Duration 3 days
 Ship: RVIB Nathaniel B. Palmer Mission No: NBP12-01 Date: 1 Feb 2012
 Weather/Sea Conditions: Mix sun/cloud, wind 5kts, 0.5 m sea
 Mooring Technician: Randy King Type of Navigation: GPS
 Latitude: 76° 46.03' S Longitude: 169° 00.51' E Time of Fix: 0942 UTC
 Main Float: Type: WHOI Markings: Yellow/Blue/WHOI Address
 Beacon: Type: Xeos Iridium I.D. #: 9901600 (WHOI beacons)
 Mooring Line: Type: stainless jacketed Colour: yellow
 Release: Type: N/A S/N: _____ Release Code: _____ Frequency: _____
 Sounding: _____

	LSR	Knudsen(____ khz)	Other_____
SV of Recorder	<u>1463 m/s</u>	_____ m/s	_____ m/s
Initial Depth	_____ fms	_____ m	_____ m
Xducer Depth	_____ m	_____ m	_____ m
Initial + xducer	_____ m	_____ m	_____ m
Depth Corrected	_____ m	_____ m	_____ m
	@ SV = _____ m/s	@ SV = _____ m/s	@ SV = _____ m/s

Placement Log

Time (Z)	Instrument	Remarks
0942	Deployed	Sea Horse with SBE19 plus, Wetlabs Wetlabs Wetstar fluorometer, SBE43 dissolved oxygen sensor, Sattlantic OCR504i, and Chelsea FRPF - ADCPs (300 kHz) deployed at top and bottom of the mooring wire. - drifting deployment with ~280 lb weight at bottom of the mooring the - water depth ~800m

