

Mooring Deployment Record

Project Name:	Aquaculture		
Project Area:	Okisollo Channel		
Mooring Name:	OC1-A	Station Name	OC1
Latitude:	50°18.444'	Longitude:	125°17.925'
Depth:	118.5 m	Tide:	+3 m. datum = 115.5 m *
Mag. Declination:		Time Zone:	UTC
Date:	16/09/2010	Time:	2336
Remarks:			

Recovery

Date:	May 15, 2011	Time:	1225 PDT
Remarks:	- recovered without incident		

Instruments

Type	Serial #	Depth	Time In:	Time Out	Notes
WH 600	1820	40 m	upward		1 new battery inside
					2 new batteries in external case
WH 300	5588	105 m	upward		1 old battery inside
	5588 (Stuck)				2 new batteries in external case

Releases

Release	Serial #	Range:	Release	Freq	Other
AR 861	736	1686	1655		1649

diag. deployed with 5.1.3.4.

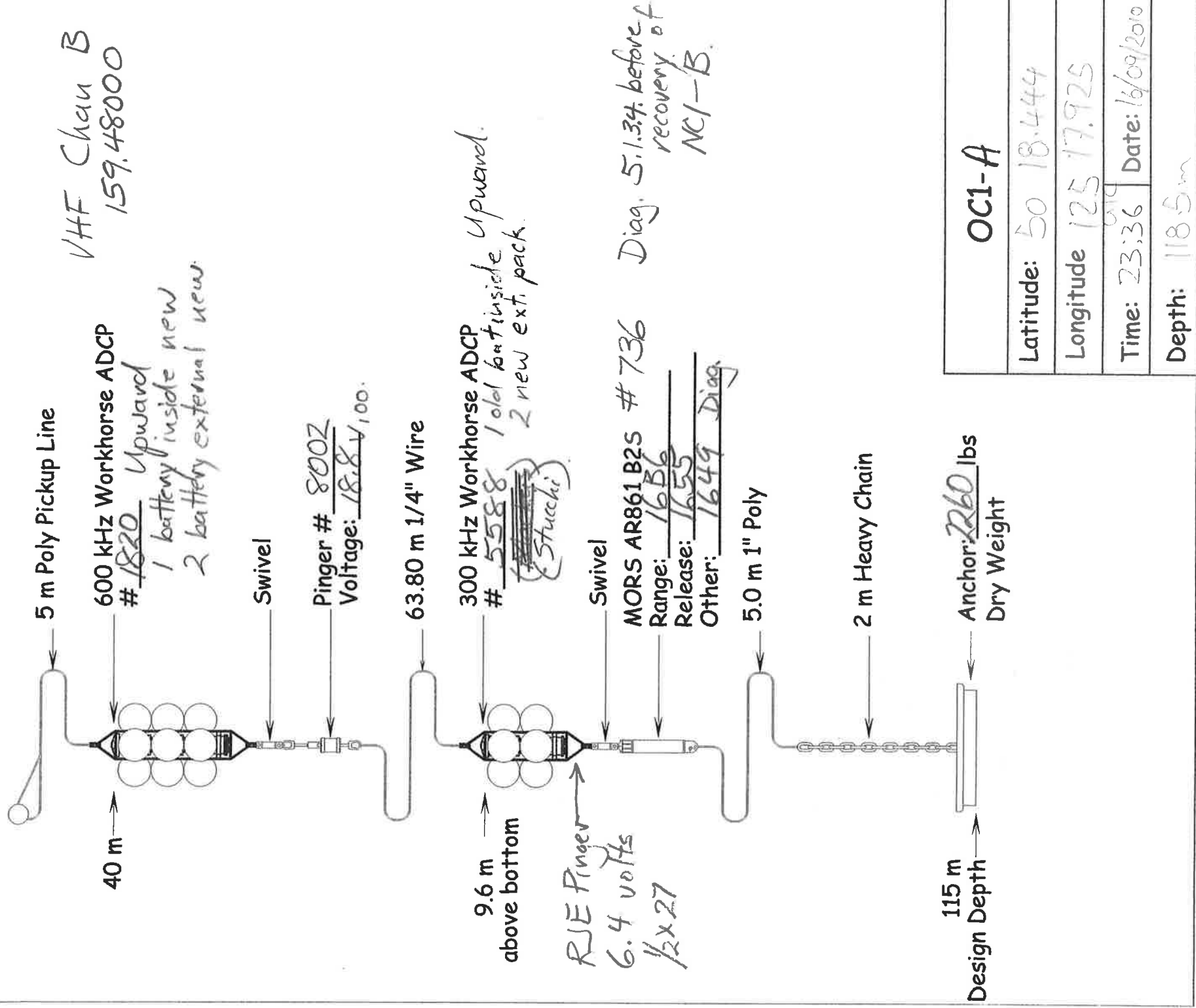
Pingers

No Argo's

Pinger	Serial #	Voltage	Freq
Halk.	8002	18.8	27 kHz
RJE		6.4	27 kHz

Flotation

Type	Serial #	Size	Colour	Type	Serial #	Size	Colour
12 Vinyl Buoy Frame			orange				
8 Vinyl Buoy Frame			orange				



Sept 16, 2010

OCL - A Deck Check

5m poly line (no float) $\frac{1}{2}\phi$

WHS 600 1820 in heavy frame w 12 Vines
 $\frac{1}{2}\phi$ $\frac{1}{2}\phi$ Swivel $\frac{1}{2}\phi$

Pinger 8002 18.8 V100 $\frac{1}{2}\phi$

63.80 m $\frac{1}{4}$ " Wire $\frac{1}{2}\phi$

WHS 300 5588 w 8 Vines
& RTE 6.44V

$\frac{1}{2}\phi$ $\frac{1}{2}\phi$ Swivel $\frac{1}{2}\phi$ $\frac{5}{8}\phi$

AR 801 736

5m Poly line $\frac{7}{8}\phi$

2780 Single + axle

Date Time PDT

Sep. 16 1636 - deployed mooring (with 3m) tide = 115.5 m datum (with 3m) tide = 115.5 m datum
 ② OCI-A in 118.5 m water on sounder
 ② NCI mooring is relocated to Kisollo Channel + becomes OCI

- proceed to *DPI for deployment.*

*DPI (Thompson)
 DPI (Stuchi) mooring
 identifiers have been confusing thus DPI was renamed DP2

1939 - deployed mooring DPI-C in 238 m water (on sounder) at 50° 18.255' 125° 25.346'

- head for Brook's Penn.

- en route contacted 1.05 (Thompson + Perreault) and R/V T. Thompson to coordinate science crew in Gold River change

RDI 75/150/300/600 kHz Long Ranger/Workhorse

Project: 2010 Tully 69
Serial Number: 1820 60KHz
Cruise ID: 69
Platform: Tully
Station: OC1-A
Deployment Date: 16-Sept-2010
Recovery Date: ~330 days
Position: _____
Depth: 40 m

Parameters:
Ensemble Interval: 15 minutes
Bin Size: 2m
Number of Pings: 150
Number of Bins: 20
Ambiguity Velocity: 400
Water profiling Mode: WPP
Time: _____

Start Time: 2200 UTC

Power: 1082.5W

Battery Type: 3x6023 (2x external 1x internal)

- 600kHz, red case

- brought from 105

- no flash card - borrowed from EOI recovered unit # 2275

- flash memory 20MB - get backup card

- red external batt case from 105

I have lots of
with me CP
will install
new

RDI 75/150/300/600 kHz Long Ranger/Workhorse

Project: 2010 Tully 69
Serial Number: 5588 300kHz
Cruise ID: 69
Platform: Tully
Station: OC9-A
Deployment Date: 16-Sept-2010
Recovery Date: ~330 days
Position:
Depth: 150m

Parameters:
Ensemble Interval: 20 minutes
Bin Size: 4m
Number of Pings: 80
Number of Bins: 27
Ambiguity Velocity:
Water profiling Mode: WBO
Time:

Start Time: 2230 UTC
Power: 894.95 W

Battery Type: 1x internal 6023, 1x external 6023

- 300 kHz, plastic case
- flash memory 105 MB
- plastic battery case

Note:

Date Time (PDT)

May 15 0945 - leave DP2-B and head for Seymour. - going for recovery of OCI and DPI.

1215 - approaching OCI-A getting ranges 486, 350-ish, 155, 160
as we come to a stop.
- stopped over mooring 164

1220 - moved off to position for release

1225 - 224 m release sent got range 235 got rec'd + exec'd
- sighted on surface

1325 - head for DPI-C for recovery.

1330 - arrive on site - release responding to ranges as we go

1331 - stopped over station ranges 295 + 297

- move off 1 1/2 - 1 cable for release

1334 - app. 1 cable off range = 367.

- sent release code range = 385 got rec'd + exec'd.

1338 - sighted on surface but only the bottom float came up

WH300 #3566 8 vinyl frame SS37 #2588 missing.

- the evidence points to corrosion of the wire app. 50 m above the bottom float.

Juhász, Tamás

From: Juhász, Tamás
Sent: August 24, 2010 4:16 PM
To: Foreman, Mike; Stucchi, Dario; Guo, Ming
Cc: Thomson, Richard; Spear, David
Subject: RE: Discovery current meter moorings

Mike, Dario and Ming,

This won't be a problem. We'll try for the configuration which employs two upward looking Work Horse instruments.

I have very little confidence left in the RCMs especially the oldest RCM4s.

Can I assume the new mooring will be OC1 ?

Thanks, Tom

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From: Foreman, Mike
Sent: August 24, 2010 9:03 AM
To: Stucchi, Dario; Guo, Ming; Juhász, Tamás
Cc: Foreman, Mike
Subject: RE: Discovery current meter moorings

Hi Tom,

Dario, Ming and I discussed our Discovery Islands mooring priorities yesterday and they are summarized below. In particular, if you have time on your Sept cruise we would like you to move the Nodales mooring to a location in Okisollo Channel. We now have a full year of observations at Nodales and given that there are several fish farms in Okisollo, we thought it would be wise to have observations to validate our model currents there. Preliminary model results suggest the currents at this new site will be slightly larger than those at the Nodales mooring but only about 70% of those at the Discovery mooring. Specifically, in addition to a maximum tidal current of about 2 knots, our model predicts a two-layer estuarine flow at the Okisollo location with the top layer going westward with average speeds of about 10cm/s (0.2 knots). However our model doesn't yet include winds and they could add another 0.5 knots to the surface flows.

Please let us know if you have any questions or concerns about moving the Nodales mooring, or re-deploying the one in Discovery Channel.

Thanks

Mike

Cc Dario, Ming

<< File: Okisollo current meter mooring location.jpg >>

From: Stucchi, Dario
Sent: August 23, 2010 2:56 PM
To: Foreman, Mike; Guo, Ming
Subject: Discovery current meter moorings

Mike and Ming,

From our meeting today we agreed that for Tom's September cruise (2010-69) the priorities should be:

- 1) the Discovery Passage mooring (DP) with top (high freq) and near bottom (low freq) ADCPs. Highest priority for the ADCP's is the top ADCP.
- 2) Move the Nodales Channel mooring (NC) to Okisollo Channel (OK 50° 18.46'N, 125° 17.62'W). I have attached a map showing the proposed location. Water depth is approximately 115m and currents are likely to be smaller than in Nodales Channel. Preliminary model speeds should be given to Tom for mooring design. The mooring should have a high frequency ADCP (600 or 300 kHz) looking up from about 40m depth and a near bottom ADCP (300kHz or lower) also looking up. The top ADCP should be given highest priority and should a near bottom ADCP not be available then 2 RCM7's should be positioned in the lower part of the mooring.

Please review, modify or correct and then send to Tom.

Thanks

Dario

<< File: Okisollo current meter mooring location.jpg >>

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