

TRIP REPORT
05-GBI-1A and 05-GB-1A
F/V Alitak, Seward

The F/V Alitak, owed and operated by Gary Nielson, was chartered to deploy the subsurface iron meter mooring and the subsurface nitrate meter mooring at the GB-1 site south of Seward.

Joe Resing, Calvin Mordy and I met in Seward on 16 Aug., 2005. Calvin set up the nitrate meter for deployment, Joe set up the iron meter for deployment. Both instruments were set up and secured in the mooring cages by 2330 on Aug. 16th. The Alitak sailed at 0400 Aug. 17th with Bill Floering aboard.

We steamed to the GB-1 site arriving around 0730 Wed. morning. A short bottom search was conducted to locate a bottom depth of 230 meters and to avoid placing the mooring on the underwater cable that is in this area. The iron meter was the first instrument to be deployed. Equipment is limited on the Alitak so both moorings were deployed anchor last. The nitrate mooring was deployed a few tenths of a mile away from the iron meter. Anchor last deployments require that you free fall the anchor to the bottom. As the anchor drops it drags the rest of the mooring along the surface of the ocean as a rate that I would estimate approaches 4-5 knots. The resulting water pressure during this period may or may not have an impact on the multiple tubing connections for these two instruments.

Tom Smith at the Seward Univ. of Alaska Science Center was very helpful in accepting our shipment of equipment and assisting with loading the equipment on the Alitak. The following items were left aboard the Alitak and delivered to the Kodiak NMFS lab. 3 line spools, 3 acoustic release boxes, 1 foot locker, 1 RCM9 box and one syntactic foam float cradle.

05-GBI-1A deployed 17 Aug. 2005 in 232 meters of water.
59 degrees 41.25 N 149 degrees 20.49 W

05-GB-1A deployed 17 Aug. 2005 in 230 meters of water.
59 degrees 41.31 N 149 degrees 19.96 W.

Floering
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206-526-6480

Mooring I.D.:	<u>05GB-1A</u>	Deployment date (L):	<u>11 Aug 05</u>
Cruise No.:	_____	Actual deployment depth (m):	<u>230</u>
Project:	_____	Est. deployment depth (m):	<u>230</u>
Ship:	<u>ALIBAK ALTOX</u>	Time of release:	<u>17:03 GMT</u>
Chief Sci.:	<u>Bill Floering</u>	Time on bottom:	_____
Timekeeper:	_____	Position:	_____
CTD cast no.:	_____	GPS latitude:	<u>59 41.31 N</u>
Bottom temp:	_____	GPS longitude:	<u>159 19.90 W</u>
		Magnetic variation:	_____

INSTRUMENT	SERIAL NUMBER	DEPTH (M)		TIME ON		DEPLOYMENT		RECOVERY		TIME OFF	
		Actual	Est	JD	Time	JD	Time	JD	Time	JD	Time
Nitrate meter	<u>234</u>		<u>25</u>			<u>228</u>	<u>1703</u>	<u>257</u>	<u>1703</u>		
Microcat/SG	<u>2340</u>		<u>26</u>			<u>228</u>	<u>1703</u>	<u>257</u>	<u>1703</u>		
RCM-9/cond	<u>83</u>		<u>30</u>			<u>228</u>	<u>1703</u>	<u>257</u>	<u>1703</u>		

RECOVERY	<u>14 Sept 05</u>	FLOATS	Top	Mid	Bottom
Cruise number:	_____	Type:	<u>McLure ORE/ORE</u>	<u>McLure ORE</u>	<u>McLure</u>
Time released fm anchor:	<u>1650 Local</u>	Size:	<u>30"/30"</u>	<u>30"</u>	<u>30"</u>
Recovery time at surface:	_____	S/N:	<u>30-22</u>	<u>30-22</u>	<u>30-22</u>
CTD cast number:	<u>none</u>	Color:	<u>yellow/yellow</u>	<u>yellow</u>	<u>yellow</u>
		Depth (m):	<u>22/23</u>	<u>130</u>	

RELEASE	PRIMARY	SECONDARY
Type: _____		
Serial Number: <u>018062</u>		

Comments:
 Nitrate meter plugged at 1700 GMT

ACOUSTIC RELEASE DATA

TYPE	SER NO	PROJECT	New Battery	RECOVERY	COMMENTS
8242	018062		7/20/2005		NEW 05-22-95
INTERROGATE FREQ	9.0 KHZ		MECHANISM	ROTARY	TRANSPONDER YES
REPLY FREQ	10.0 KHZ				ENABLE/DISABLE YES
CMD 1/A CODE-FUNCTION-REPLY					547140 - RELEASE - VERT 16 P; HORIZ 8 P @ 1 SEC INTERVAL
CMD 2/B CODE-FUNCTION-REPLY					575120 - DISABLE - VERT 16 P; HORIZ 8 P @ 2 SEC INTERVAL
CMD 3/C CODE-FUNCTION-REPLY					575145 - ENABLE
CMD 4/D CODE-FUNCTION-REPLY					

ADDITIONAL COMMENTS:

Rubber Boot

Handwritten notes:
12:41
Jan 03
4:50
5:03
[Signature]

Mooring I.D.:	<u>05GBI-1A</u>	Deployment date (L):	<u>17 Aug 05</u>
Cruise No:	_____	Actual deployment depth (m):	<u>232</u>
Project:	_____	Est. deployment depth (m):	<u>230</u>
Ship:	<u>ATRAK Albatross</u>	Time of release:	<u>1645 GMT</u>
Chief Sci:	<u>Bill Floering</u>	Time on bottom:	_____
Timekeeper:	<u>Floering</u>	Position	_____
CTD cast no.:	<u>111</u>	GPS latitude:	<u>34° 35' N</u>
Bottom temp:	_____	GPS longitude:	<u>179° 20' W</u>
		Magnetic variation:	<u>0.0°</u>

INSTRUMENT	SERIAL NUMBER	DEPTH (M)		TIME ON		DEPLOYMENT		RECOVERY		TIME OFF	
		Actual	Est	JD	Time	JD	Time	JD	Time	JD	Time
Iron Sampler	<u>2512</u>		<u>290</u>			<u>251</u>	<u>1600</u>	<u>257</u>	<u>1642</u>		
Microcat/SG	<u>2511</u>		<u>292</u>			<u>251</u>	<u>1601</u>	<u>257</u>	<u>1642</u>		

RECOVERY	<u>14 Septos</u>	FLOATS	Top	Mid	Bottom
Cruise number:	_____	Type:	Flotation Tech	<u>ORE</u>	
Time released fm anchor:	<u>1624 Local Time</u>	Size:	<u>37"</u>	<u>30"</u>	
Recovery time at surface:	_____	S/N:	<u>11/1</u>		
CTD cast number:	<u>none</u>	Color:		<u>yellow</u>	
		Depth (m):	<u>25</u>	<u>221</u>	

RELEASE	PRIMARY	SECONDARY
Type:	<u>EGG</u>	
Serial Number:	<u>25929</u>	

Comments:

ACOUSTIC RELEASE DATA

TYPE	SER NO	PROJECT	New Battery	RECOVERY	COMMENTS
8242XS	025929		7/20/2005		NEW 05-19-00
INTERROGATE FREQ	CH A 11.0	CH B 9.0 KHZ	MECHANISM	ROTARY	TRANSPONDER YES
REPLY FREQ	CH A 12.0	CH B 11.0 KHZ			ENABLE/DISABLE YES
CMD 1/A CODE-FUNCTION-REPLY	327562	- RELEASE			VERT 15 P; HORIZ 7 P @ 1 SEC INTERVAL
CMD 2/B CODE-FUNCTION-REPLY	312415	- DISABLE CH A & CH B			VERT 15 P; HORIZ 7 P @ 2 SEC INTERVAL
CMD 3/C CODE-FUNCTION-REPLY	312351	- ENABLE CH A			SAME AS ABOVE
CMD 4/D CODE-FUNCTION-REPLY	312372	- ENABLE CH B			SAME AS ABOVE

ADDITIONAL COMMENTS:

Urithane Boot Checked 3/25/02

*Deploy at Iron meter morning
Sewer 17 Aug 05*

*4:24 hook
release
Inert out 4:42*

GB-1 59 degrees 41.66 min N
149 degrees 21.49 min W

238 meters deep

Tom Smith U. of AK. 907-224-5261

Petro Marine Fuel dock T-Dock 907-224-8040

Gary Nielson Alitak

Chemicals by Lynden Air

Pallets by Lynden

To Inst. Of Marine Studies

Calvin will be there 4pm or so on the 16th setting up.