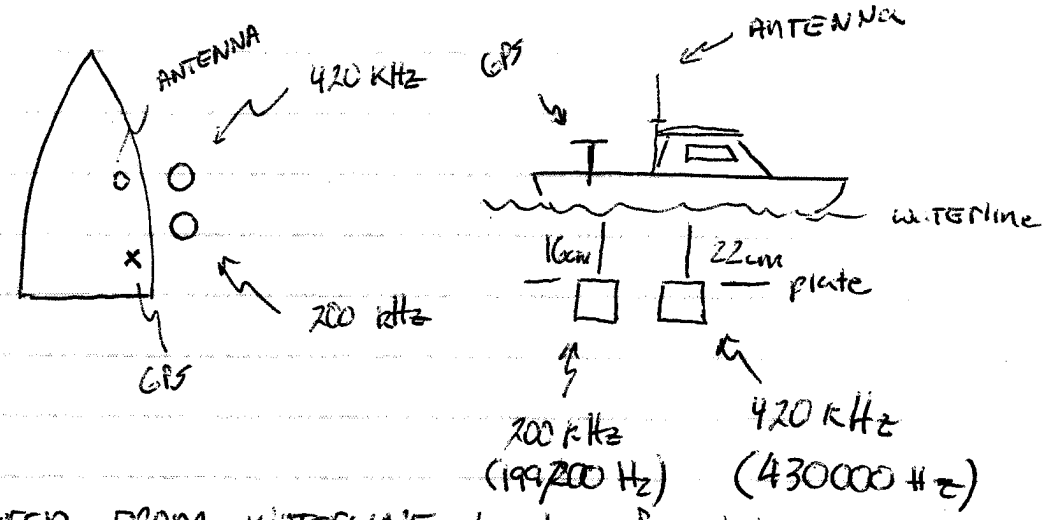


NOTE MEASURED FROM WATERLINE to top of plate
NEED TO ADD plate width + Xducer depth

WATER TEMP 4.6°C (hull echosounder) 5.5° surface dip hand held
Salinity (NOT MEASURED)

(A N)

TIDES Predicted (Jtides, Seattle) 01/29/2007 (local)
Pacific Standard TIME
03.26 +3.4 m (HIGH)
07:58 +2.6 m (LOW)
12:28 +3.3 m (HIGH)
20:20 −0.4 m (LOW)

30 Jan 2007 JD030 POSSESSION Beach
Sonar was dropping to many packets to use. We tried trouble shooting over the phone w/ BIOSONIC. They concluded it was a hardware problem and recommended we bring the unit in (to Seattle where they are based). AFTER testing in

Seattle, it was determined that the hardware was in good condition, but power from boat was a likely cause of errors.

Today, we are going to run the Sonar off a 12 volt battery.

We did not do any other boat work yesterday.

Tides 1/30/2007 (Local Time) Seattle, JTides

UTC	PST		
12:16	04:16	+3.6 m	H
17:12	09:12	+2.6 m	L
21:30	13:30	+3.2 m	H
5:10 (Jan 31)	21:10	-0.5 m	L

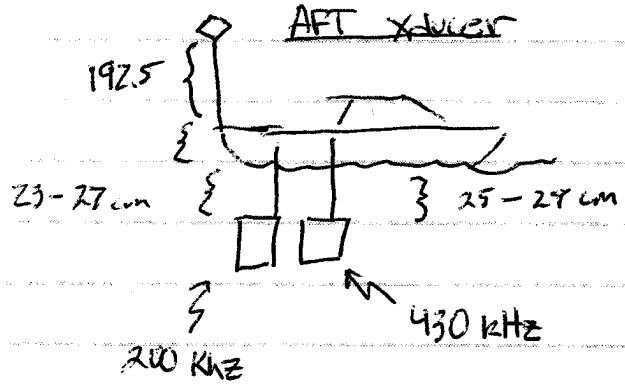
Today's crew

	Skipper	Collin Smith	BRD
	Chief Scientist	David Finlayson	CMG
Sonar	Information Specialist	Andrew ~~Schwartz~~ Stevens	CMG
	GPS	Andrew Schwartz	WA. dept. Ecology

Operation Log 30 JAN 2007 (Possession Beach)

EQUIPMENT	START (UTC)	COMMENT	STOP	COMMENT
Boat ~~in water~~	16:23	in water		
Temperature	16:26	Air Temp 5.9°C Water Temp 4.9°C		

Xducer measurements 16:30 Forward Xducer to waterline
to top of plate 25 → 24 cm
AFT Xducer 23 → 27 cm



~~16:40~~

Start Line 42	16:50	(Tide 2.6m)	16:51	Stop
Start Line 43	16:53	(Tide 2.6m)	16:54	Stop
Start Line 44	16:55	(Tide 2.6m)	16:56	Stop
Start Line 45	16:56	(")	16:58	Stop

Swapped to David's 17:06
Computer all older data is on Itronix
Tide program is on David's no more tides in log.

2

Start Line 46	17:11	Mistake, didn't record data		
Start Line 46	17:13		17:13	Stop
Start Line 47	17:14		17:15	Stop

Operation Log (Cont) 30 JAN 2007

EQUIPMENT	START		
Start LINE 48	17:17	Stop	17:17
Start LINE 49	17:18	Stop	17:19
Start LINE 50	17:20	Stop	17:22 ← started outside pilings
Start LINE 51	17:23	Stop	17:25
Start LINE 52	17:26	Stop	17:28
Start LINE 53	17:29	Stop	17:31
Start LINE 54	17:32	Stop	17:35 interesting thermal layer coming off low tide terrace

Surveying at 2:45

Start LINE 55 17:36 Stop 17:38 incomplete line when switching display. need to redo this. We Switched displays once befor

Start LINE 55	17:40	Stop	17:43
Start LINE 56	17:44	Stop	17:47
Start LINE 57	17:47	Stop	17:51
Start LINE 58	17:51	Stop	17:54
Start LINE 59	17:55	Stop	17:58
Start LINE 60	17:59	Stop	~ 18:05

file name in biosonic JD LINE # ↳030_D15

Andrew plugged a computer into powerstrip and we lost pinging on this line. Very sensitive to power - even if only the computer

Start LINE 60	18:08	Stop	18:11
Start LINE 61	18:11	Start	18:15

EVENT	START	EVENT	STOP
Start LINE 62	18:15	Stop	18:19
Start line 63	18:19	Stop	18:23
start line 64	18:24	Stop	18:28

Starting to pick up small waves in the data 1 sec chop ~20 cm height

Starting line 65	18:29	Stop	18:33
Starting line 66	18:34	Stop	18:38

Some obstructions in water right at shoreline rocks?

Start line 67	(missed start)	Stop	
Start line 68	18:46	stop	18:51
Start line 69	missed	stop	18:56
start line 70	missed	Stop	19:03

Transducer mount is not bolted down now that waves are picking up there is some play in mount. We are bolting it down a bit better now

Start LINE 71	19:04	stop	19:10
Start line 72	19:10	stop	19:16

19:22 When we restarted logging after Andrew plugged computers, line names reverted to default format. (>18:05)

19:23 Stopped for lunch

19:46 Lowered transducers so that they don't come out in waves

AFT 24-40 cm ~ 35 cm

Fore 35 cm

EVENT	TIME	EVENT	TIME
START LINE 77	19:56	Stop LINE	1958
START LINE 79	20:00	Stop LINE	20:02
Start LINE 81	20:05	Stop LINE	20:08
Start LINE 83	20:08	Stop LINE	20:12

Waves have died down a bit, Fairly smooth now

Start LINE 85	12:13	Stop LINE	20:16

we are surveying every other line ~~today~~ now to get more coverage of the area (in case of trouble) 20:17

Start line 87	~~12:17~~	Stop line	20:21
Start line 89	20:23	Stop line	20:28
Start line 91	20:28	Stop line	20:33
Start line 93	20:35	Stop line	20:41

Fish at start of line.

<u>Notes for Biosonic</u> — Visualize feedback of logging file + space remaining on disk

Start line 95	20:41	Stop LINE	20:47
Start line 97	20:49	Stop line	20:54

cut line short, new driver (Andrew Stevenson) took over

Start line 99	20:56	Stop line	21:02

moved all logged data files from C drive to D/~~bioson~~ b2-07-95/biosonic directory

Start line 101	21:10	Stop line	21:16
Start line 103	21:17	Stop line	21:23
Start line 105	21:25	Stop line	21:31

EVENT	TIME	EVENT	TIME

WATER TEMP 4.5°C 21:25

NICE SEA GRASS DELINIATION ON THESE LINES.

21:30 very easy to see difference b/w grass/no grass

21:31 very calm water – some currents

Start line 107 21:32 Stop line 21:39

Start line 109 21:41 Stop line 21:47

Start line 111 21:51 Stop line 21:57

Start line 113 21:59 Stop line 22:06

Start line 115 22:06 Stop line 22:13

Boat WAKE left strong roll bleed in data

Start line 117 22:15 Stop line 22:23

Start line 119 22:23 Stop line 22:31

Start line 121 22:33 Stop line 22:40

Switched driver to Andrew Schwartz

Note for biosonic can't change view while logging or software freezes

right at end of line both echo sounders (Biosonic / boat depth finder) picked up a really hard return – erratic?

Start line 123 22:42 Stop line 22:48

@ 2243 went over hard return area again this is worth checking out w/ video?

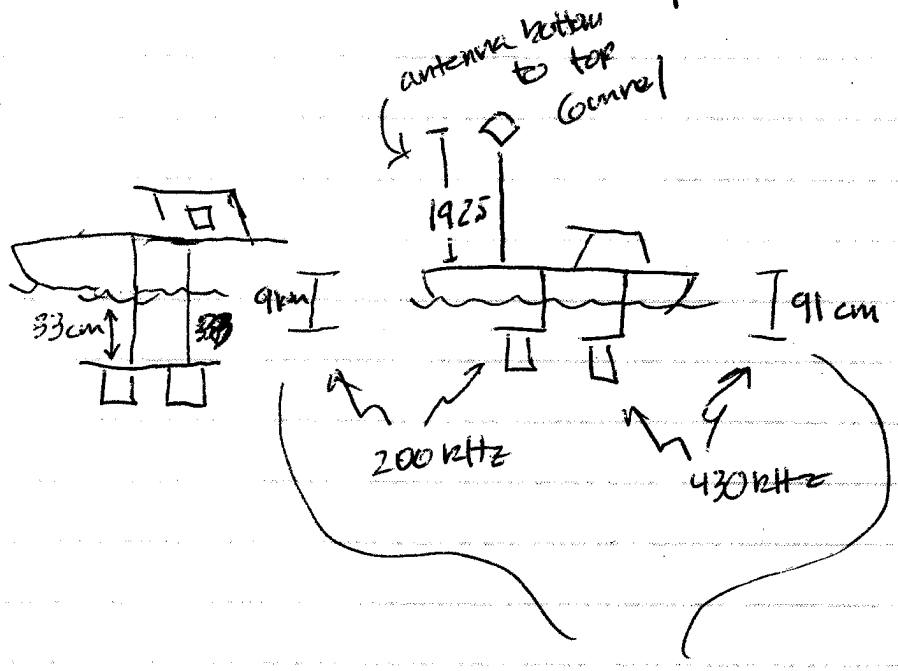
@ 2247 swell in data – Ferry wake?

Start line 125 22:50 Stop line 22:59

Start line 127 23:00 Stop line 23:07

Start line 129 23:09 Stop line 23:16

EVENT	TIME	EVENT	TIME
Start line 131	23:17	STOP LINE	23:22
Start line 133	2325	Stop LINE	23:30



Top of Gunnel
To top transducer plate