H Series

DEPLOYMENT RECORD

Project Name: Covariability. Start Date: Oct 4 End Date: Late May
Mooring Name: JF2C-H Station Name: JF2C

Geog. Desc.: Juan de Fuca Central Tide: +1.3 m
Latitude: 48°21.534' Longitude: 124° 12.753
Water Depth: 183m datum Ice Thickness: —
Magnetic decl: — Time Zone: PDT Anchor Type: 2 wheels 1280 lbs
Date: — Time Anchor Dropped: 0812 PDT Date: Oct. 4, 2005
Remarks:

RECOVERY RECORD

Date: May 31, 2006 Time Anchor Released: 1836-1923 successful @ 1923 PDT
Remarks:
-required activation of both releases

INSTRUMENTS (Start at TOP)

Type	Serial #	Depth	Time in	Time Out	Notes
RDI 150kHz	1588	178m			LR mode. (winter)
SBE 16+	4201	179m			with oxygen sensor

Release	Serial	R Code	Arm Code	Freq	On/Off	B0	B1	Aux Codes			
1090	465	ABEF	CDFG	8kHz							
1090	460	ACDE	CDFG	8kHz							

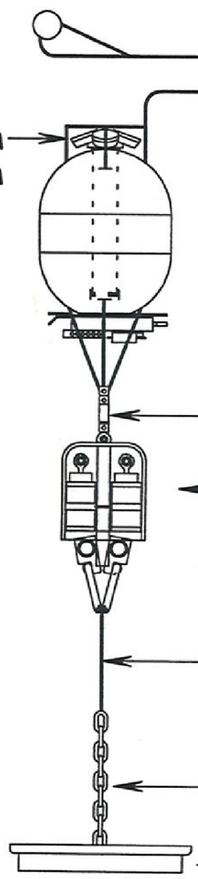
Pinger 1	Type	Serial	Pinger 2	Type	Serial	Battery Volt	

FLOTATION

Type	Serial #	Size	Colour
Floatec buoy.	1000m	ADCP	yellow.

Type	Serial #	Size	Colour

Data Entry by:



5 m Poly Pickup Line

5.23 m off bottom

RDI S/N: 1588

VHF S/N 104044 Ch: 70 156.525 on

Strobe S/N: 107031 Double flash/4sec. on

ARGOS: 4014 on

Pinger S/N: RJE 7052 6.3 volts on

Voltage:

Secat 16 Plus: 4201

Swivel

Double Acoustic Release

1090 # 465 Rel: ABEF Rearm CDFG Reply: 8kHz

1090 # 460 Rel: ACDE Rearm CDFG Reply: 9kHz

1 m 1" Poly

1m Heavy Chain 1m.

Anchor: 1280 lbs 2 wheels.

Dry Weight

184 − 1.3 m = 182.7 m datum.

+1.3 m tide at Ft. Renfrew

JF2C-H	
Latitude: 48° 21.534	
Longitude 124° 12.753	
Time: 0812 PDT	Date: 04/10/2006
Depth: 184 = 183 m datum	

Date	Time	P
Oct. 4	0730	
	0812	
	0930	
	1020	
	1623	
	1629	

Date	Time PDT	
Oct. 4	0730	- on station JF2C for deployment
	0812	- deployed JF2C-H in 183 m datum at 48° 21.534 & 124° 12.753
		- head for Port Renfrew to drop Jim + Sue
		- attempts to contact D Allen not successful - Chief confirmed it yesterday
		- gave Jim a paper with contacts, numbers, $200.00, coding, signed.
	0930	- Jim + Sue depart by 733 for Port Renfrew.
		- we head for A1 and B101 for recovery ETA 1600
	1020	- launch returns
		- notes about ECOHAB next year:
		- drain buoys + patch + anti-foul paint.
		- make a better equivalent lifting ring for 3rd buoy
		- fix 3rd tripod.
		- better radar reflectors - same reflector better angle.
	1623	- on station B101-H for recovery. - developing gale
		- ranges 417, 418, drifting over it 395, 396, 398 (directly over.) drifting away 402.
	1629	- 445 m range sent BCDF received positive response - sighted on surface.
		- recovered without incident.

Recovered.
Batteries @ 54 volts

1588-JF2C-CV-H.txt

```
[ File Name - 1588-JF2C-CV-H.txt]

>[ ========================================================================== ]
[ I)   ADCP CONFIGURATION AND SETUP NOTE****This does not apply]
[ ]
[       System Frequency:                150 kHz]
[       Beam Angle:                      20 deg]
[       System Power                     High]
[ ]
[       Temperature:                     6.00 deg C]
[       Salinity:                        34 ppt]
[       Depth of Trans:                  180.0 m]
[ ]
[       WT pings/ensemble                50]
[       Depth Cell Size                  4.00 m]
[       Number of Cells                  50]
[       Blank After Tx                   4.00 m]
[       WT profiling mode                1]
[       WT ambiguity velocity            200cm/s ]
[ ]
[       BT pings/ensemble                0]
[       Time btwn ping groups            0.00 s]
[       Time/ensemble                    00:15:00]
[       Deployment Length                150 Days]
[       Velocity Collected               YES]
[       Coordinate System                Earth]
[       Correlation system               YES]
[       Correlation collected            YES]
[       Intesity collected               YES]
[       % good collected                 YES]
[       Status collected                 YES]
[       Enable Recorder                  YES]
[       Enable Serial Port               YES]
[       Baud Rate                        38400 ]
[ ]
[ II)  PREDICTIONS]
[ ]
[       First depth cell                 8.92 m]
[       Last depth cell                  204.92 m]
[      WT max predicted range            314.90 m]
[       WT min ping time                 0.81 s]
[       wt vel std dev                   0.88cm/s]
[       ]
[       Bytes/ensemble                   1312]
[       Min time/ensemble                41.40s]
[       Total Space needed               18.89 MB]
[       Energy Required                  2421.84 Wh                                ]
[ ]
[ III) WARNINGS]
[       None]
[ ]
[ IV)   COMMANDS]
[       WP00040 no of pings]
WP00040
>
>
[       WD111110000]
WD111110000
>
>
[       WN050 50 bins]
WN050
```

```
>
>
[       WS0400  4m ]
WS0400
>
>
[       WF0400 blank after transmit]
WF0400
>
>
[       WM1 Mode 1]
WM1
>
>
[       TP00:00.00 time between pings]
TP00:00.00
>
>
[       WV200 ambiguity velocity]
WV200
>
>
[       BP000 bottom track off]
BP000
>
>
[       TE00:15:00.00 ensemble time]
TE00:15:00.00
>
>
[       ET0600 temp]
ET0600
>
>
[       ES34   salinity]
ES34
>
>
[       ED1800   depth]
ED1800
>
>
[       EZ1111111  sensors]
EZ1111111
>
>
[       EX11111 earth coordinates bin mapping tilts and rolls ]
EX11111
>
>
[       CF11101]
CF11101
>
Broadband ADCP Version 5.59
RD Instruments (c) 1991-2000
All rights reserved.

[       WB2  Narrow band]
>
>WB2
>
>
>?
```

```
B? ------------------------ BOTTOM TRACK Commands
C? ------------------------ CONTROL Commands
D? ------------------------ APPLIED MICROSYSTEMS Commands
E? ------------------------ ENVIRONMENTAL SENSORS Commands
P? ------------------------ PERFORMANCE Commands
R? ------------------------ RECORDER Commands
T? ------------------------ TIMING Commands
W? ------------------------ WATER PROFILING Commands
>C?
CB = 611 ----------------- Serial Port Control (Baud; Par; Stop)
CF = 11101 --------------- Flow Ctrl (EnsCyc;PngCyc;Binry;Ser;Rec)
CG = 0,00000 ------------- Ping Mode(0=Std, 2=MCM),MCM Trig Dly(0-65535ms)
CK ------------------------ Keep Parameters as USER Defaults
CL = 1 ------------------- Battery Saver Mode (0=OFF, 1=ON)
CP = 255 ----------------- Xmt Power (0=min, 255=max)
CQ = 008 ----------------- Xmt Delay Select (0-127)
CR # --------------------- Retrieve Parameters (0 = USER, 1 = FACTORY)
CS ------------------------ Go (Start Pinging)
CT = 00 ------------------ Turnkey Mode (0=OFF,1=TURNKEY)
CX = 0 ------------------- Triggered Xmt (0=OFF,1=LH,2=HL,3=LH/HL,4=L,5=H)
CY = E609FEFF ------------ Clear BIT Log
CZ ------------------------ Power Down BBADCP
>E?
EA = +00000 -------------- Heading Alignment (1/100 deg)
EB = +00000 -------------- Heading Bias (1/100 deg)
EC = 1500 ---------------- Speed Of Sound (m/s)
ED = 01800 --------------- Transducer Depth (0 - 65535 dm)
EF = +0001 --------------- Pitch/Roll Divisor/Multiplier (pos/neg) [1/99 - 99]
EH = 00000 --------------- Heading (1/100 deg)
EP = +0000 --------------- Tilt 1 Sensor (1/100 deg)
ER = +0000 --------------- Tilt 2 Sensor (1/100 deg)
ES = 34 ------------------ Salinity (0-40 pp thousand)
ET = +0600 --------------- Temperature (1/100 deg Celsius)
EX = 11111 --------------- Coord Transform (Xform:Type; Tilts; 3Bm; Map)
EZ = 1111111 ------------- Sensor Source (C;D;H;P;R;S;T)
>R?
RA = 000 ----------------- Number of Deployments Recorded
RB ### ------------------- Blank Check 1 MB of Recorder Memory (0 = ALL)
RD = 000 ----------------- Current Deployment Selected (0 = NONE)
RE ErAsE ----------------- Erase Recorder
RJ +##### ---------------- Number of Ensembles to Jump (+/- 99999)
RP = 0000 ---------------- Recorder Parameters (-;-;-;No Buffer)
RS = 000,080 ------------- Rec Space Used (MB), Free (MB), (999 = Erasing)
RT ------------------------ Recorder BIT
RY ### ------------------- Start YModem (Batch) Xfer Deployment # (0=All)
>T?
TB = 00:00:00.00 --------- Time per Burst (hrs:min:sec.sec/100)
TC = 00000 --------------- Ensembles Per Burst (0-65535)
TE = 00:15:00.00 --------- Time per Ensemble (hrs:min:sec.sec/100)
TF = **/**/**,**:**:** --- Time of First Ping (yr/mon/day,hour:min:sec)
TG = ****/**/**,**:**:** - Time of First Ping (CCYY/MM/DD,hh:mm:ss)
TP = 00:00.00 ------------ Time per Ping (min:sec.sec/100)
TS = 05/10/03,21:59:47 --- Time Set (yr/mon/day,hour:min:sec)
TT = 2005/10/03,21:59:47 - Time Set (CCYY/MM/DD,hh:mm:ss)
>TS?
TS = 05/10/03,21:59:48 --- Time Set (yr/mon/day,hour:min:sec)
>W?
WA = 255 ----------------- False Target Threshold (Max) (0-255 counts)
WB = 2 ------------------- Mode 1 Bandwidth Control (0=Wid,1=Med,2=Nar)
WC = 064 ----------------- Low Correlation Threshold (0-255)
WD = 111 110 000 --------- Data Out (V;C;A  PG;St;Vsum  Vsum^2;#G;P0)
WE = 9999 ---------------- Error Velocity Threshold (0-5000 mm/s)
WF = 0400 ---------------- Blank After Transmit (cm)
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WG = 000 ----------------- Percent Good Minimum (0-100%)
WH = 111 100 000 --------- Bm 5 Data Out (V;C;A  PG;St;Vsum  Vsum^2;#G;P0)
WI = 0 ------------------- Clip Data Past Bottom (0=OFF,1=ON)
WJ = 1 ------------------- Rcvr Gain Select (0=Low,1=High)
WL = 000,005 ------------- Water Reference Layer:  Begin Cell (0=OFF), End Cell
WM = 1 ------------------- Profiling Mode (1-8)
WN = 050 ----------------- Number of depth cells (1-128)
WP = 00040 --------------- Pings per Ensemble (0-16384)
WQ = 0 ------------------- Sample Ambient Sound (0=OFF,1=ON)
WS = 0400 ---------------- Depth Cell Size (cm)
WT = 0000 ---------------- Transmit Length (cm) [0 = Bin Length]
WV = 200 ----------------- Mode 1 Ambiguity Velocity (cm/s radial)
WW = 004 ----------------- Mode 1 Pings before Mode 4 Re-acquire
WX = 999 ----------------- Mode 4 Ambiguity Velocity (cm/s radial)
WZ = 010 ----------------- Modes 5 and 8 Ambiguity Velocity (cm/s radial)
>C?
CB = 611 ----------------- Serial Port Control (Baud; Par; Stop)
CF = 11101 --------------- Flow Ctrl (EnsCyc;PngCyc;Binry;Ser;Rec)
CG = 0,00000 ------------- Ping Mode(0=Std, 2=MCM),MCM Trig Dly(0-65535ms)
CK ----------------------- Keep Parameters as USER Defaults
CL = 1 ------------------- Battery Saver Mode (0=OFF, 1=ON)
CP = 255 ----------------- Xmt Power (0=min, 255=max)
CQ = 008 ----------------- Xmt Delay Select (0-127)
CR # --------------------- Retrieve Parameters (0 = USER, 1 = FACTORY)
CS ----------------------- Go (Start Pinging)
CT = 00 ------------------ Turnkey Mode (0=OFF,1=TURNKEY)
CX = 0 ------------------- Triggered Xmt (0=OFF,1=LH,2=HL,3=LH/HL,4=L,5=H)
CY = E609FEFF ------------ Clear BIT Log
CZ ----------------------- Power Down BBADCP
>CS
```

886-3764

Date	Time PDT	
May 31	1907	- 1½ cable. rec'd range 335/335 8kHz/9kHz
		- sent ACDE 2x getting noise. switched transducers.
		- range 396/400 8kHz/9kHz. - 9kHz clean signal 8kHz very noisy.
		- sent ACDE rec'd positive response.
	1913.	- range 498. sent ACDE positive response.
		range 485. app. 2 cable off. returning to 1 cable away.
	1921	- 1 cable off - double check position.
		- 9kHz range = 258 m, 258 m sent ACDE positive response.
	1923	- sending ABEF rec'd positive response range 265 m.
		again " " ".
		- sending ACDE. " " "
	1926	- sighted on surface. - being rec'd on Chan. 70. VHF.
		- light flashing
		- Argos 4014 working
		- Pinger working
		- on deck - heavy corrosion to stainless hose clamps and ADCP hardware.
app.	2000	- data on ADCP looks good
	-2100.	- attempting to down load at higher baud rate not working download at 38300 is best - down loading overnight.

- heading for EH3 for deployment.