DEPLOYMENT RECORD

Project Name: Juan de Fuca Start Date: May 2007 End Date: Sep. 2007
Mooring Name: JF2C-J Station Name: JF2C

Geog. Desc.: Mid Channel Juan de Fuca Tide: +0.1m, Renfrew
Latitude: 48° 21.456' Longitude: 124° 12.800'
Water Depth: 185m datum Ice Thickness: —
Magnetic decl: — Time Zone: PDT Anchor Type: 3 wheels 2260 lbs
Date: May 19, 2007 Time Anchor Dropped: 0921 PDT Date:
Remarks:

RECOVERY RECORD

Date: Sep. 17 2007 Time Anchor Released: 1110 PDT
Remarks: — some finger trouble with time delay between sending Window(arm) command + release command. (15 sec)

INSTRUMENTS (Start at TOP) — the release instrument worked well

Type	Serial #	Depth	Time in	Time Out	Notes
ADCP WH~~300~~ 75					UW
	3867	175m	0921 PDT		
SBE37	5309	178m	"	"	

Argos M1265 20920 TT301 #81 FR2

Release	Serial	R Code RLS	~~Trm~~ WIN Code	~~Freq~~ RNG	FR1/2 On/Off	B0	B1	Aux Codes
RT661	151	6434	6431	9000	6433/6433			Deploy Disabled FR1+2 OFF

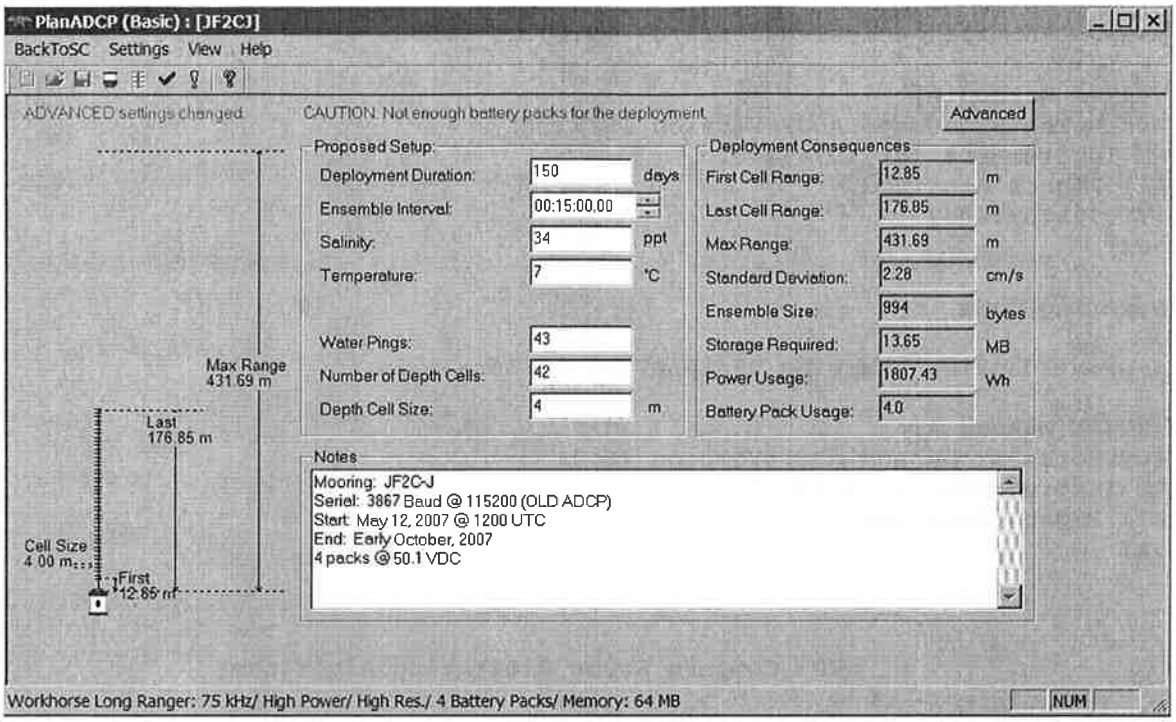
Pinger 1	Type	Serial	Pinger 2	Type	Serial	Battery Volt	
RJE	½ x 27	?	—	—	—	6.4	—

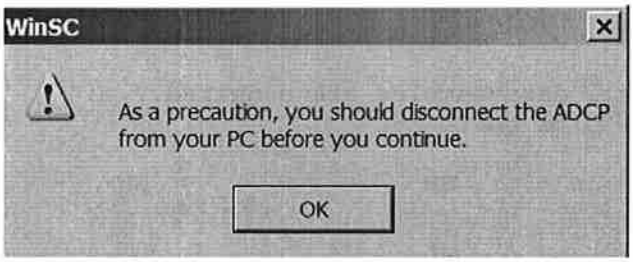
FLOTATION

Type	Serial #	Size	Colour
Floated	4.5" x 1500m		orange

Type	Serial #	Size	Colour

Data Entry by:


PlanADCP (Basic) : [JF2C]
BackToSC Settings View Help
ADVANCED settings changed.
CAUTION. Not enough battery packs for the deployment.
Advanced
Proposed Setup:
Deployment Duration: 150 days
Ensemble Interval: 00:15:00.00
Salinity: 34 ppt
Temperature: 7 °C
Water Pings: 43
Number of Depth Cells: 42
Depth Cell Size: 4 m
Deployment Consequences
First Cell Range: 12.85 m
Last Cell Range: 176.85 m
Max Range: 431.69 m
Standard Deviation: 2.28 cm/s
Ensemble Size: 994 bytes
Storage Required: 13.65 MB
Power Usage: 1807.43 Wh
Battery Pack Usage: 4.0
Max Range 431.69 m
Last 176.85 m
Cell Size 4.00 m
First 12.85 m
Notes
Mooring: JF2C-J
Seriel: 3867 Baud @ 115200 (OLD ADCP)
Start: May 12, 2007 @ 1200 UTC
End: Early October, 2007
4 packs @ 50.1 VDC
Workhorse Long Ranger: 75 kHz/ High Power/ High Res./ 4 Battery Packs/ Memory: 64 MB
NUM


WinSC
As a precaution, you should disconnect the ADCP from your PC before you continue.
OK

```
>>>>>> Function starting 05/10/07 19:40:29 >>>>>>

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.21
RD Instruments (c) 1996-2002
All Rights Reserved.
>TS070510194032
>CZ

Powering Down

>>>>>> Function starting 05/10/07 19:40:36 >>>>>>

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.21
RD Instruments (c) 1996-2002
All Rights Reserved.
>AX

------------------------------------------------------------------------
------
                    RDI Compass Error Estimating Algorithm

   Press any key to start taking data after the instrument is setup.


Rotate the unit in a plane until all data samples are acquired...
   rotate less than 5ø/sec.  Press Q to quit.

 N       NE       E        SE       S       SW       W        NW
N
 ^               ^               ^               ^
^
                                                          Û□ □

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.21
RD Instruments (c) 1996-2002
All Rights Reserved.
>CZ

Powering Down

>>>>>> Function starting 05/10/07 19:40:53 >>>>>>

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.21
RD Instruments (c) 1996-2002
All Rights Reserved.
>DEPLOY?
Deployment Commands:
RE ---------------------- Recorder ErAsE
RN ---------------------- Set Deployment Name

WD = 111 100 000 --------- Data Out (Vel,Cor,Amp; PG,St,P0; P1,P2,P3)
WF = 0704 ---------------- Blank After Transmit (cm)
```

```
WN = 062 ----------------- Number of depth cells (1-128)
WP = 00051 --------------- Pings per Ensemble (0-16384)
WS = 0800 ---------------- Depth Cell Size (cm)
WV = 175 ----------------- Mode 1 Ambiguity Vel (cm/s radial)

TE = 00:30:00.00 --------- Time per Ensemble (hrs:min:sec.sec/100)
TF = **/**/**,**:**:** --- Time of First Ping (yr/mon/day,hour:min:sec)
TP = 00:35.29 ------------ Time per Ping (min:sec.sec/100)
TS = 07/05/10,19:40:55 --- Time Set (yr/mon/day,hour:min:sec)

EA = +00000 -------------- Heading Alignment (1/100 deg)
EB = +00000 -------------- Heading Bias (1/100 deg)
ED = 04900 --------------- Transducer Depth (0 - 65535 dm)
ES = 32 ------------------ Salinity (0-40 pp thousand)
EX = 11111 ---------------- Coord Transform (Xform: Type,Tilts,3 Bm,Map)
EZ = 1111111 ------------- Sensor Source (C,D,H,P,R,S,T)

Press any key to continue

CF = 11101 ---------------- Flow Ctrl (EnsCyc;PngCyc;Binry;Ser;Rec)
CK ------------------------ Keep Parameters as USER Defaults
CR # ---------------------- Retrieve Parameters (0 = USER, 1 = FACTORY)
CS ------------------------ Start Deployment

>SYSTEM?
System Control, Data Recovery and Testing Commands:
AC ------------------------ Output Active Fluxgate & Tilt Calibration
data
AF ------------------------ Field calibrate to remove hard/soft iron
error
AR ------------------------ Restore factory fluxgate calibration data
AX ------------------------ Examine compass performance
AZ ------------------------ Zero pressure reading

CB = 811 ------------------ Serial Port Control (Baud; Par; Stop)
CP # ---------------------- Polled Mode (0 = NORMAL, 1 = POLLED)
CZ  ----------------------- Power Down Instrument

FC ------------------------ Clear Fault Log
FD ------------------------ Display Fault Log

OL ------------------------ Display Features List

PA ------------------------ Pre-Deployment Tests
PC1 ----------------------- Beam Continuity
PC2 ----------------------- Sensor Data
PS0 ----------------------- System Configuration
PS3 ----------------------- Transformation Matrices

RR ------------------------ Recorder Directory
Press any key to continue

RF ------------------------ Recorder Space used/free (bytes)
RY ------------------------ Upload Recorder Files to Host

>TS?
TS = 07/05/10,19:40:58 --- Time Set (yr/mon/day,hour:min:sec)
```

```
>PS0
  Instrument S/N:  3867
       Frequency:  76800 HZ
   Configuration:  4 BEAM, JANUS
     Match Layer:  10
      Beam Angle:  20 DEGREES
    Beam Pattern:  CONVEX
     Orientation:  UP
       Sensor(s):  HEADING  TILT 1  TILT 2  DEPTH  TEMPERATURE  PRESSURE
Pressure Sens Coefficients:
              c3 = +4.455094E-11
              c2 = -1.355289E-06
              c1 = +9.525920E-01
          Offset = +2.886955E+01

Temp Sens Offset:  -0.13 degrees C

    CPU Firmware:  16.21 [0]
   Boot Code Ver:  Required:  1.13   Actual:  1.13
    DEMOD #1 Ver:  ad48, Type:  1f
    DEMOD #2 Ver:  ad48, Type:  1f
    PWRTIMG  Ver:  85d3, Type:   5

Board Serial Number Data:
   88  00 00 02 FB B2 3A  09 CPU727-2000-00H
   C9  00 00 02 48 A5 7A  09 HPI727-3007-O0A
   EE  00 00 02 FB B0 46  09 TUN727-1005-06X
   F1  00 00 02 FB B4 46  09 DSP727-2001-06F
   72  00 00 02 FB 79 FB  09 REC727-1004-06X
   CE  00 00 02 48 B1 27  09 HPA727-3009-00A
>PA

PRE-DEPLOYMENT TESTS

CPU TESTS:
  RTC.....................................PASS
  RAM.....................................PASS
  ROM.....................................PASS
RECORDER TESTS:
  PC Card #0..............................NOT DETECTED
  PC Card #1..............................DETECTED
    Card Detect...........................PASS
    Communication.........................PASS
    DOS Structure.........................PASS
    Sector Test (short)...................PASS
DSP TESTS:
  Timing RAM..............................PASS
  Demod  RAM..............................PASS
  Demod  REG..............................PASS
  FIFOs...................................PASS
SYSTEM TESTS:
  XILINX Interrupts... IRQ3  IRQ3  IRQ3 ...PASS
  Receive Loop-Back.......................PASS
  Wide Bandwidth.....................***FAIL***
  Narrow Bandwidth...................***FAIL***
  RSSI Filter.............................PASS
  Transmit................................PASS
```

```
SENSOR TESTS:
  H/W Operation.....................***FAIL***
>PC2

Press any key to quit sensor display ...

Heading   Pitch    Roll   Up/Down    Attitude Temp   Ambient Temp
PRESSURE
295.60ø -27.59ø  26.53ø     Up          20.24øC        20.69øC
6.6 kPa
295.63ø -27.59ø  26.53ø     Up          20.24øC        20.71øC        -
0.5 kPa
295.64ø -27.59ø  26.52ø     Up          20.25øC        20.69øC        -
12.7 kPa
295.63ø -27.59ø  26.52ø     Up          20.25øC        20.71øC        -
10.6 kPa
295.63ø -27.59ø  26.53ø     Up          20.26øC        20.70øC        -
13.8 kPa
295.65ø -27.59ø  26.52ø     Up          20.25øC        20.68øC        -
5.4 kPa
295.64ø -27.59ø  26.52ø     Up          20.25øC        20.70øC        -
35.3 kPa
295.64ø -27.59ø  26.52ø     Up          20.26øC        20.67øC
0.5 kPa
295.64ø -27.59ø  26.53ø     Up          20.25øC        20.70øC        -
11.0 kPa
295.63ø -27.59ø  26.53ø     Up          20.25øC        20.70øC        -
10.4 kPa
295.63ø -27.59ø  26.52ø     Up          20.25øC        20.69øC        -
55.9 kPa
295.63ø -27.59ø  26.52ø     Up          20.26øC        20.69øC        -
11.0 kPa
295.65ø -27.59ø  26.53ø     Up          20.25øC        20.70øC        -
10.2 kPa
295.63ø -27.59ø  26.52ø     Up          20.26øC        20.69øC        -
10.6 kPa
295.64ø -27.59ø  26.52ø     Up          20.26øC        20.70øC        -
8.3 kPa
295.63ø -27.59ø  26.52ø     Up          20.25øC        20.70øC
22.2 kPa
295.62ø -27.59ø  26.52ø     Up          20.25øC        20.70øC        -
0.3 kPa
295.64ø -27.59ø  26.52ø     Up          20.26øC        20.70øC
9.8 kPa
295.63ø -27.59ø  26.52ø     Up          20.27øC        20.71øC
1.4 kPa
295.63ø -27.59ø  26.53ø     Up          20.25øC        20.70øC
2.4 kPa
295.64ø -27.59ø  26.52ø     Up          20.26øC        20.70øC        -
3.3 kPa
295.63ø -27.59ø  26.52ø     Up          20.26øC        20.70øC
2.4 kPa
295.62ø -27.59ø  26.52ø     Up          20.26øC        20.71øC        -
15.3 kPa
295.65ø -27.59ø  26.52ø     Up          20.27øC        20.69øC        -
1.2 kPa
295.64ø -27.59ø  26.53ø     Up          20.27øC        20.69øC        -
```

```
21.6 kPa
295.62ø -27.59ø  26.52ø      Up          20.26øC        20.68øC        -
15.5 kPa
295.65ø -27.59ø  26.53ø      Up          20.26øC        20.71øC        -
0.9 kPa
295.63ø -27.59ø  26.52ø      Up          20.27øC        20.71øC
12.7 kPa
295.64ø -27.59ø  26.53ø      Up          20.28øC        20.69øC        -
2.9 kPa
295.63ø -27.59ø  26.53ø      Up          20.28øC        20.71øC
22.4 kPa

>RS
RS = 001,986 ------------- REC SPACE USED (MB), FREE (MB)

>PC1


BEAM CONTINUITY TEST

When prompted to do so, vigorously rub the selected
beam's face.

If a beam does not PASS the test, send any character to
the ADCP to automatically select the next beam.

Collecting Statistical Data...
  28  30  32  32
  27  30  31  31
  28  30  30  31
  28  30  30  31
  28  30  30  31
  27  30  30  32
  27  29  30  32
  27  29  31  32
  27  29  31  32
  28  29  31  32
  28  29  31  32
  28  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
```

```
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32
  27  29  31  32

Rub Beam 1 = PASS
Rub Beam 2 = PASS
Rub Beam 3 = PASS
Rub Beam 4 = PASS


>CZ

Powering Down

>>>>>> Function starting 05/10/07 19:43:16 >>>>>>

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.21
RD Instruments (c) 1996-2002
All Rights Reserved.
>AZ
Pressure Offset Updated in NVRAM.

>CZ
```

```
Powering Down

>>>>>> Function starting 05/10/07 19:43:22 >>>>>>

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.21
RD Instruments (c) 1996-2002
All Rights Reserved.
>RE ErAsE  erasing...
Recorder erased.

>CZ

Powering Down

>>>>>> Function starting 05/10/07 19:43:31 >>>>>>

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.21
RD Instruments (c) 1996-2002
All Rights Reserved.
>RR
Recorder Directory:
Volume serial number for device #1 is b09b-6bcf

  No files found.

  Bytes used on device #1 = 0
Total capacity   = 1034469376 bytes
Total bytes used =          0 bytes in 0 files
Total bytes free = 1034469376 bytes

>
[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.21
RD Instruments (c) 1996-2002
All Rights Reserved.
>CR1
[Parameters set to FACTORY defaults]
>CQ255
>CF11101
>EA0
>EB0
>ED1800
>ES34
>EX11111
>EZ1111111
>WA50
>WB0
>WD111100000
>WF704
>WN42
>WP43
>WS400
>WV175
>TE00:15:00.00
>TP00:20.93
```

```
>TF07/05/12 12:00:00
>CK
[Parameters saved as USER defaults]
>The command CS is not allowed in this command file.  It has been
ignored.
>The following commands are generated by this program:
>CF?
CF = 11101 --------------- Flow Ctrl (EnsCyc;PngCyc;Binry;Ser;Rec)
>CF11101
>RN JF2CJ
>cs
```