

OBS

RECOVERY

Date 26/06/2003

Checker \_\_\_\_\_

no. 120

OBS Name - No. DXC-3

Depth 2721 m

Radio beacon Freq. 159.000 MHz

Ch. \_\_\_\_\_

Transponder MX-1337

Code 4C - 1 (Call. Command - Answer)

Auto reset: (yes) (no)

\*\*\*\*\*

When you're 100% sure the OBS has been released, send reset command to it (2\*8 replies)

Time Zone: (GMT / JST / LST (    ))

UTC

Time	Range	Time	Range	Time	Range	Time	Range	Time	Range
+ 5km 1134	Release								
1135	5137								
11530	2469								
115800	2452								
30	2422								
40	2473								
50	2429								
115900	2360								
10	2351								
20	2340								
30	-								
40	2321								
50	2310								
120000	2299								
120150	2221								
120200	2239								

\*\*\*\*\*

Position of OBS recovered

Date & Time: 26/6-3 ~ 13:00 UTC

Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

**AFTER RECOVERY:**

Wash the OBS by freshwater

**Radio beacon, Flasher**

- Turn off the switch
- Did the beacon and flasher work OK?

**Transponder**

- Detach the cables from the transponder to the FRPs, remove the transponder from the OBS, dry it and bring it to the laboratory. After a minimum of 24 hours from recovery, you can put the transponder back in its storing case.

**CALIBRATION OF OBS CLOCK AND RECORDING STOP:**

**Connect the OBS to the master clock**

- Read the time difference between the OBS clock and the master clock, and write it down in a notebook.

**Connect the OBS to the PC (DAT OBS)**

- Connection to OBS:
  - Serial type:
    - Load the correct settings (9600,8,n,1)
    - Type "CONNECT", reply should be "CONNECT9600" and the prompt changes from ":" to ">"
    - (to terminate the connection, simply disconnect the cable)
  - Modem type:
    - Load the correct settings (9600,8,n,1)
    - Type "ATZ", "ATX0", "ATD", "CONNECT". Prompt changes to ">" after a successful connect.

• Commands to stop recording:

"cr:" = Clock Read  
 Check if the OBS clock is correct. Is it faster or slower than the master clock? slower

"ss:" = Stop Sampling  
 Terminate sampling and clamp on

"rd:" = Read D?? 24/6-3 04:00 > 26/6-3 12:56:34  
 Review observation period:

"ts:" = Check Start Time 24/6-3 04:00  
 Did the recorder start at the correct time?

"ag:" = Amplifier Gain 60 dB  
 Read the amp. gain:

"sf:" = Sampling Frequency 256 Hz  
 Read the sampling frequency:

"tr:" = Temperature Read 8070 ... = -17.7  
 Read OBS temperature:

○ "lc:" = Line Close  
 Only necessary for modem connections.

OBS

RECOVERY

Date 26, 06, 2003

Checker \_\_\_\_\_

no. 127

OBS Name - No.

DE-3

Depth

2842 m

Radio beacon Freq.

160.725 MHz

Ch.

2842 C

Transponder

MX- 1185

Code

30 - 1 (Call. Command - Answer)

Auto reset: (yes) (no)

\*\*\*\*\*

When you're 100% sure the OBS has been released, send reset command to it (2\*8 replies)

Time Zone: (GMT / JST / LST ( ))

Time	Range	Time	Range	Time	Range	Time	Range	Time	Range
	<u>2893</u>	<u>143050</u>	<u>2745</u>						
<u>14055</u>	<u>Release</u>	<u>3000</u>	<u>2735</u>						
<u>140310</u>	<u>2893</u>	<u>3110</u>	<u>2712</u>						
		<u>143020</u>	<u>2709</u>						
<u>142502</u>	<u>2908</u>	<del><u>143000</u></del>							
<del><u>142510</u></del>	<del><u>2888</u></del>	<u>143050</u>	<u>Reset</u>						
<u>40</u>	<u>"</u>								
<u>50</u>	<u>2887</u>								
<u>142600</u>	<u>"</u>								
<u>10</u>	<u>2886</u>								
<u>20</u>	<u>2886</u>								
<u>30</u>									
<u>142700</u>	<u>2900</u>								
<u>30</u>	<u>2886</u>								
<u>142800</u>	<u>"</u>								
<u>30</u>	<u>"</u>								
<u>142900</u>									
<u>30</u>									
<u>50</u>	<u>2803</u>								
<u>143000</u>									
<u>10</u>	<u>2781</u>								
<u>20</u>	<u>2771</u>								
<u>30</u>	<u>2765</u>								
<u>40</u>	<u>2754</u>								

\*\*\*\*\*

Position of OBS recovered

Date & Time:

2006-3 15:30 UTC

Latitude:

Longitude:

**AFTER RECOVERY:**

Wash the OBS by freshwater

**Radio beacon, Flasher**

- Turn off the switch
- Did the beacon and flasher work OK?

**Transponder**

- Detach the cables from the transponder to the FRPs, remove the transponder from the OBS, dry it and bring it to the laboratory. After a minimum of 24 hours from recovery, you can put the transponder back in its storing case.

**CALIBRATION OF OBS CLOCK AND RECORDING STOP:**

**Connect the OBS to the master clock**

- Read the time difference between the OBS clock and the master clock, and write it down in a notebook.

**Connect the OBS to the PC (DAT OBS)**

- Connection to OBS:
  - Serial type:
    - Load the correct settings (9600,8,n,1)
    - Type "CONNECT", reply should be "CONNECT9600" and the prompt changes from ":" to ">"
    - (to terminate the connection, simply disconnect the cable)
  - Modem type:
    - Load the correct settings (9600,8,n,1)
    - Type "ATZ", "ATX0", "ATD", "CONNECT". Prompt changes to ">" after a successful connect.
- Commands to stop recording:

✓ ○ "cr:" = Clock Read  
 Check if the OBS clock is correct. Is it faster or slower than the master clock? slower

✓ ○ "ss:" = Stop Sampling  
 Terminate sampling and clamp on

✓ ○ "rd:" = Read D??    24/6-3 04:00 > 26/6-3 15:36:43  
 Review observation period:

✓ ○ "ts:" = Check Start Time  
 Did the recorder start at the correct time? 24/6-3 04:00

✓ ○ "ag:" = Amplifier Gain  
 Read the amp. gain: 60 dB

✓ ○ "sf:" = Sampling Frequency  
 Read the sampling frequency: 256 Hz

✓ ○ "tr:" = Temperature Read  
 Read OBS temperature: 0°C

✓ ○ "lc:" = Line Close  
 Only necessary for modem connections.

OBS

RECOVERY

Date 26/06/2003

Checker \_\_\_\_\_

OBS Name - No. no. 722  
DXA-3

Depth 2875 m

Radio beacon Freq. 159.250 MHz

Ch. 6

Transponder MX-1012

Code 2C-3 (Call. Command - Answer)

Auto reset: (yes) (no)

\*\*\*\*\*

When you're 100% sure the OBS has been released, send reset command to it (2\*8 replies)

Time Zone: (GMT / JST / LST ( ))

Time	Range	Time	Range	Time	Range	Time	Range	Time	Range
		550	2819						
		165600	2812						
<u>+1km</u>	<u>162140</u>	<u>5988</u>	<u>8610</u>	<u>2801</u>					
			<u>20</u>	<u>2893</u>					
	<u>1622</u>	<u>+clear</u>	<u>30</u>	<u>2839</u>					
	<u>16230</u>	<u>5988</u>	<u>40</u>	<u>2770</u>					
			<u>50</u>	<u>2768</u>					
	<u>164100</u>	<u>2971</u>	<u>165700</u>	<u>2980</u>					
	<u>30</u>	<u>2925</u>		<u>2751</u>					
	<u>45</u>	<u>2925</u>		<u>2744</u>					
	<u>164230</u>	<u>2927</u>		<u>2995</u>					
	<u>4300</u>	<u>2927</u>		<u>2722</u>					
	<u>164730</u>	<u>3052</u>		<u>2801</u>					
	<u>4800</u>	<u>2931</u>		<u>2726</u>					
	<u>4830</u>	<u>2944</u>		<u>"</u>					
	<u>164900</u>	<u>2962</u>		<u>0 "</u>					
	<u>30</u>	<u>3037</u>		<u>2712</u>					
	<u>165000</u>	<u>2936</u>		<u>2708</u>					
	<u>30</u>	<u>2938</u>		<u>2661</u>					
	<u>165300</u>	<u>2946</u>	<u>170000</u>	<u>Reset</u>					
			<u>20</u>	<u>Reset</u>					
	<u>165500</u>			<u>2622</u>					
	<u>5530</u>	<u>2881</u>							

\*\*\*\*\*

Position of OBS recovered

Date & Time: 26/6-3 1754 UT

Latitude: 68° 13, 820' Longitude: 1° 24, 261'

**AFTER RECOVERY:**

✓ Wash the OBS by freshwater

**Radio beacon, Flasher**

- ✓  Turn off the switch
- Did the beacon and flasher work OK?

**Transponder**

- ✓  Detach the cables from the transponder to the FRPs, remove the transponder from the OBS, dry it and bring it to the laboratory. After a minimum of 24 hours from recovery, you can put the transponder back in its storing case.

**CALIBRATION OF OBS CLOCK AND RECORDING STOP:**

**Connect the OBS to the master clock**

- ✓  Read the time difference between the OBS clock and the master clock, and write it down in a notebook.

**Connect the OBS to the PC (DAT OBS)**

- Connection to OBS:
  - Serial type:
    - Load the correct settings (9600,8,n,1)
    - Type "CONNECT", reply should be "CONNECT9600" and the prompt changes from ":" to ">"
    - (to terminate the connection, simply disconnect the cable)
  - Modem type:
    - Load the correct settings (9600,8,n,1)
    - Type "ATZ", "ATX0", "ATD", "CONNECT". Prompt changes to ">" after a successful connect.
- Commands to stop recording:

✓  "cr:" = Clock Read  
 Check if the OBS clock is correct. Is it faster or slower than the master clock? faster

✓  "ss:" = Stop Sampling  
 Terminate sampling and clamp on

"rd:" = Read D?? 24/6-3 04:00 > 26/6-3 18:01:18  
 Review observation period: \_\_\_\_\_

"ts:" = Check Start Time 24/6-3 04:00  
 Did the recorder start at the correct time? \_\_\_\_\_

"ag:" = Amplifier Gain 60  
 Read the amp. gain: \_\_\_\_\_ dB

"sf:" = Sampling Frequency 256  
 Read the sampling frequency: \_\_\_\_\_ Hz

"tr:" = Temperature Read 8010 ??  
 Read OBS temperature: \_\_\_\_\_

"lc:" = Line Close  
 Only necessary for modem connections.

OBS

RECOVERY

Date 26, 06, 2003

Checker \_\_\_\_\_

no. 123

OBS Name - No. DXD-3

Depth 2611 m

Radio beacon Freq. 160.725 MHz

Ch. \_\_\_\_\_

Transponder MX-1008

Code 1B-2 (Call. Command - Answer)

Auto reset: (yes) (no)

\*\*\*\*\*

When you're 100% sure the OBS has been released, send reset command to it (2\*8 replies)

Time Zone: (GMT / JST / LST ( ))

Time	Range	Time	Range	Time	Range	Time	Range	Time	Range
<u>184340</u>		<u>191300</u>	<u>2463</u>						
<u>184420</u>	<u>58105</u>	<u>10</u>	<u>2498</u>						
	<u>5354</u>	<u>20</u>	<u>2515</u>						
		<u>30</u>	<u>2431</u>						
<u>184500</u>	<u>Release</u>	<u>191400</u>	<u>Reset</u>						
<u>190430</u>	<u>2691</u>	<u>1440</u>	<u>Reset</u>						
<u>50</u>	<u>2659</u>	<u>191500</u>	<u>2393</u>						
<u>0500</u>	<u>2646</u>								
<u>30</u>	<u>2633</u>								
<u>0600</u>	<u>2643</u>								
<u>30</u>	<u>2639</u>								
<u>0700</u>	<u>2645</u>								
<u>30</u>	<u>"</u>								
<u>0800</u>	<u>2646</u>								
<u>30</u>	<u>2641</u>								
<u>0900</u>	<u>2633</u>								
<u>30</u>	<u>2643</u>								
<u>1000</u>	<u>2748</u>								
<u>1030</u>	<u>2717</u>								
<u>1100</u>	<u>2575</u>								
<u>30</u>	<u>2549</u>								
<u>1200</u>	<u>2553</u>								
<u>30</u>	<u>2506</u>								

\*\*\*\*\*

Position of OBS recovered

Date & Time: 26/6-3 20:15 UT

Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

**AFTER RECOVERY:**

✓ Wash the OBS by freshwater

**Radio beacon, Flasher**

- ✓  Turn off the switch
- ✓  Did the beacon and flasher work OK?

**Transponder**

✓  Detach the cables from the transponder to the FRPs, remove the transponder from the OBS, dry it and bring it to the laboratory. After a minimum of 24 hours from recovery, you can put the transponder back in its storing case.

**CALIBRATION OF OBS CLOCK AND RECORDING STOP:**

**Connect the OBS to the master clock**

✓  Read the time difference between the OBS clock and the master clock, and write it down in a notebook.

**Connect the OBS to the PC (DAT OBS)**

- Connection to OBS:
  - Serial type:
    - Load the correct settings (9600,8,n,1)
    - Type "CONNECT", reply should be "CONNECT9600" and the prompt changes from ":" to ">"
    - (to terminate the connection, simply disconnect the cable)
  - Modem type:
    - Load the correct settings (9600,8,n,1)
    - Type "ATZ", "ATX0", "ATD", "CONNECT". Prompt changes to ">" after a successful connect.

• Commands to stop recording:

✓  "cr:" = Clock Read  
Check if the OBS clock is correct. Is it faster or slower than the master clock?

about 26 seconds faster!!  
~~Hard to tell,~~  
~~big offset!!~~

✓  "ss:" = Stop Sampling  
Terminate sampling and clamp on

✓  "rd:" = Read D??  
Review observation period: 24/6-3 04:00 > 24/6-3 20:33:44

✓  "ts:" = Check Start Time  
Did the recorder start at the correct time? 24/6-3 04:00

"backslash"  
↓

✓  "ag:" = Amplifier Gain  
Read the amp. gain: 60 dB  
note: I accidentally typed in 99dB at the dB prompt, so it was reset to 40dB, but it was set to 60dB during assembly!

✓  "sf:" = Sampling Frequency  
Read the sampling frequency: 256 Hz

✓  "tr:" = Temperature Read  
Read OBS temperature: 0°C

○ "lc:" = Line Close  
Only necessary for modem connections.

\* master clock was ~~set~~ a reset between DxA and DxD (20:18:40, etc)



OBS

RECOVERY

Date 26/06/2003

Checker \_\_\_\_\_

no. 124

OBS Name - No. DK-3

Depth 2158 m

Radio beacon Freq. 159.300 MHz

Ch. \_\_\_\_\_

Transponder MX-1384

Code 3C-1 (Call. Command - Answer)

Auto reset: (yes) (no)

\*\*\*\*\*

When you're 100% sure the OBS has been released, send reset command to it (2\*8 replies)

Time Zone: (GMT / JST / LST ( ))

	Time	Range	Time	Range	Time	Range	Time	Range	Time	Range
+5km	20300	5237								
	2055	release								
	205510	5236								
	211230	2189								
	211300	2190								
	10	"								
	211330	2190								
	1400	2229								
	1430	2158								
	1500	2130								
	1630	2103								
	1700	2073								
	1730	2084								
	1800	2045								
	211930	1952								

\*\*\*\*\*

Position of OBS recovered

Date & Time: 26-3 22:40 UTC

Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

**AFTER RECOVERY:**

✓ Wash the OBS by freshwater

**Radio beacon, Flasher**

- Turn off the switch
- ✓  Did the beacon and flasher work OK?

**Transponder**

- ✓  Detach the cables from the transponder to the FRPs, remove the transponder from the OBS, dry it and bring it to the laboratory. After a minimum of 24 hours from recovery, you can put the transponder back in its storing case.

**CALIBRATION OF OBS CLOCK AND RECORDING STOP:**

**Connect the OBS to the master clock**

- ✓  Read the time difference between the OBS clock and the master clock, and write it down in a notebook.

**Connect the OBS to the PC (DAT OBS)**

- Connection to OBS:
  - Serial type:
    - Load the correct settings (9600,8,n,1)
    - Type "CONNECT", reply should be "CONNECT9600" and the prompt changes from ":" to ">"
    - (to terminate the connection, simply disconnect the cable)
  - Modem type:
    - Load the correct settings (9600,8,n,1)
    - Type "ATZ", "ATX0", "ATD", "CONNECT". Prompt changes to ">" after a successful connect.

• Commands to stop recording:

✓ "cr:" = Clock Read

Check if the OBS clock is correct. Is it faster or slower than the master clock?

*about 16 secs slower, due to m.c. reset*

✓  "ss:" = Stop Sampling

Terminate sampling and clamp on

✓  "rd:" = Read D??

Review observation period: 24/6-3 04:00 > 26/6-3 22:07:22

✓  "ts:" = Check Start Time

Did the recorder start at the correct time? 24/6-3 04:00

✓  "ag:" = Amplifier Gain

Read the amp. gain: 60 dB

✓  "sf:" = Sampling Frequency

Read the sampling frequency: 256 Hz

✓  "tr:" = Temperature Read

Read OBS temperature: 0°C

✓  "lc:" = Line Close

Only necessary for modem connections.

OBS

RECOVERY

Date 26/06/2003

Checker \_\_\_\_\_

OBS Name - No. DXG-3

Depth 1597 m

Radio beacon Freq. 150.050 MHz

Ch. \_\_\_\_\_

Transponder MX-1029

Code 1B-2 (Call. Command - Answer)

Auto reset: (yes) (no)

\*\*\*\*\*

When you're 100% sure the OBS has been released, send reset command to it (2\*8 replies)

Time Zone: (GMT / JST / LST ( ))

Time	Range	Time	Range	Time	Range	Time	Range	Time	Range
		231700	1742						
		231730	1560						
<i>44den</i>	225230 4675	231800	1529						
	225300 Release	231830	1497						
	225330 4681	231900	1514						
		231930	1545						
		232000							
		232030	1380						
	231100 1645	232100	1362						
	1110 1621	232130	1322						
	1120 1136								
	1130 1734		reset						
	40 1621	2323	1257						
	50 1631								
	<del>60</del>								
	23230 1632								
	231300 1623								
	231330 u								
	231400 u								
	231430 1625								
	231500 1624								
	231530 1626								
	231600 1628								
	231630 2256								

\*\*\*\*\*

Position of OBS recovered

Date & Time: 26/6-3 23190 UTC

Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

**AFTER RECOVERY:**

Wash the OBS by freshwater

**Radio beacon, Flasher**

- Turn off the switch
- Did the beacon and flasher work OK?

**Transponder**

- Detach the cables from the transponder to the FRPs, remove the transponder from the OBS, dry it and bring it to the laboratory. After a minimum of 24 hours from recovery, you can put the transponder back in its storing case.

**CALIBRATION OF OBS CLOCK AND RECORDING STOP:**

**Connect the OBS to the master clock**

- Read the time difference between the OBS clock and the master clock, and write it down in a notebook.

**Connect the OBS to the PC (DAT OBS)**

- Connection to OBS:
  - Serial type:
    - Load the correct settings (9600,8,n,1)
    - Type "CONNECT", reply should be "CONNECT9600" and the prompt changes from ":" to ">"
    - (to terminate the connection, simply disconnect the cable)
  - Modem type:
    - Load the correct settings (9600,8,n,1)
    - Type "ATZ", "ATX0", "ATD", "CONNECT". Prompt changes to ">" after a successful connect.

• Commands to stop recording:

✓ "cr:" = Clock Read

Check if the OBS clock is correct. Is it faster or slower than the master clock?

*about 16 sec slower, due to m.c. reset.*

✓ "ss:" = Stop Sampling

Terminate sampling and clamp on

✓ "rd:" = Read D??

Review observation period: 24/6-3 04:00 > 24/6-3 23:53:16

✓ "ts:" = Check Start Time

Did the recorder start at the correct time? 24/6-3 04:00

✓ "ag:" = Amplifier Gain

Read the amp. gain: 60 dB

✓ "sf:" = Sampling Frequency

Read the sampling frequency: 256 Hz

✓ "tr:" = Temperature Read

Read OBS temperature: 950 8010 ~ 3

○ "lc:" = Line Close

Only necessary for modem connections.

OBS

27 RECOVERY

Date ~~26~~ / 06 / 2003

Checker \_\_\_\_\_

no. 126

OBS Name - No. DI-3

Depth 1374 m

Radio beacon Freq. 159,700 MHz

Ch. 3

Transponder MX-1341

Code 5C-1 (Call. Command - Answer)

Auto reset: (yes) (no)

\*\*\*\*\*

When you're 100% sure the OBS has been released, send reset command to it (2\*8 replies)

Time Zone: (GMT / JST / LST ( ))

Time	Range	Time	Range	Time	Range	Time	Range	Time	Range
003700	4506	010630	Reset						
3715	Release	010700	1167						
40	4515								
005640	1393								
005700	1392								
30	1391								
005800	1390								
30	1400								
005900	1390								
30	"								
010000	"								
010030	1480								
010100	1389								
30	"								
010200	"								
010230	"								
010300	1464								
30	1342								
010400	1378								
30	1285								
010500	1255								
30	1229								
010600	1200								

\*\*\*\*\*

Position of OBS recovered

Date & Time: 27/6-3 01:30 E UTC

Latitude: 67°42,160' Longitude: 2°43,570'

**AFTER RECOVERY:**

✓ Wash the OBS by freshwater

**Radio beacon, Flasher**

- ✓  Turn off the switch
- Did the beacon and flasher work OK?

**Transponder**

- ✓  Detach the cables from the transponder to the FRPs, remove the transponder from the OBS, dry it and bring it to the laboratory. After a minimum of 24 hours from recovery, you can put the transponder back in its storing case.

**CALIBRATION OF OBS CLOCK AND RECORDING STOP:**

**Connect the OBS to the master clock**

- ✓  Read the time difference between the OBS clock and the master clock, and write it down in a notebook.

**Connect the OBS to the PC (DAT OBS)**

- Connection to OBS:
  - Serial type:
    - Load the correct settings (9600,8,n,1)
    - Type "CONNECT", reply should be "CONNECT9600" and the prompt changes from ":" to ">"
    - (to terminate the connection, simply disconnect the cable)
  - Modem type:
    - Load the correct settings (9600,8,n,1)
    - Type "ATZ", "ATX0", "ATD", "CONNECT". Prompt changes to ">" after a successful connect.

• Commands to stop recording:

- ✓  "cr:" = Clock Read  
 Check if the OBS clock is correct. Is it faster or slower than the master clock? *about 16 secs slower, due to m.c. reset.*
- ✓  "ss:" = Stop Sampling  
 Terminate sampling and clamp on *? Stopped very fast!*
- ✓  "rd:" = Read D??  
 Review observation period: *4/6-3 12:42:30 > 17/6-3 18:47:38*
- ✓  "ts:" = Check Start Time  
 Did the recorder start at the correct time? *24/6-3 04:00*
- "ag:" = Amplifier Gain  
 Read the amp. gain: \_\_\_\_\_ dB
- "sf:" = Sampling Frequency  
 Read the sampling frequency: \_\_\_\_\_ Hz
- "tr:" = Temperature Read  
 Read OBS temperature: \_\_\_\_\_
- "lc:" = Line Close  
 Only necessary for modem connections.

Did not start!!