

STAR 2000
JORDAN

SONOBOLY
RECORD

SONOBOLY

JORDAN 2000

STAR

520106005

Here is the list which is published in the Navy sonobuoy manual with the asterisked channels prohibited as noted.

JAY BARLOW (858) 546-7178
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Channel	Freq.	Channel	Freq.	Channel	Freq.
1	162.250	34	136.750	67	149.125
2	163.000	35	137.875	68	149.500
3	163.750	36	137.500	69	149.875
4	164.500	37	137.875	70	150.250
5	165.250	38	138.250	71	150.625
6	166.000	39	138.625	72	151.000
7	166.750	40	139.000	73	151.375
8	167.500	41	139.375	74	151.750
9	168.250	42	139.750	75	152.125
10	169.000	43	140.125	76	152.500
11	169.750	44	140.500	77	152.875
12	170.500	45	140.875	78	153.250
13	171.250	46	141.250	79	153.625
14	172.000	47	141.625	80	154.000
15	172.750	48	142.000	81	154.375
16	173.500	49	142.375	82	159.750
17	162.625	50	142.750	83	155.125
18	163.375	51	143.125	84	155.500
19	164.125	52	143.500	85	155.875
20	164.875	53	143.875	86	156.250
21	165.625	54	144.250	87	156.625
22	166.375	55	144.625	88	157.000
23	167.125	56	145.000	89	157.375
24	167.875	57	145.375	90	157.750
25	168.625	58	145.750	91	158.125
26	169.375	59	146.125	92	158.500
27	170.125	60	146.500	93	158.875
28	170.875	61	146.875	94	159.250
29	171.625	62	147.250	95	159.625
30	172.375	63	147.625	96	160.000
31	173.125	64	148.000	97	160.375
32	173.875	65	148.375	98	160.750
33	174.625	66	148.750	99	161.125

Navigation channels prohibited within 200 miles of the coast

[illegible]

50106005 USE The Wide - WFM - mode

STAROO DST
CRUISE #1615

SONOBUOY #1
Channel 27, popped to surface, but all I heard
was static, recorded for ~15 minutes just in case
it worked.

Deployed in vicinity of blue whales
Sighting # 1013.

If commercial whaling and no humpbacks
was not confirmed.

Start 130730

End 130735

Sonobuoy position $29^{\circ} 43' 05'' N$
 $115^{\circ} 50.79' W$

30 July 00

SONOBUOY #2

Channel 21. popped to surface but just heard static.

Recorded about 15 minutes of static

Deployed in vicinity of blue whale, dropped it when Sonobuoy #2 started signaling at 1328

Preamplifier was not hooked up to receiver - no cetacean sounds - just static

Started recording 132315

Ended recording 133557

Sonobuoy Position 29° 42.69 N
115° 52.00 W

30 July 00

SONOBUOY #3

Started recording at 1606. Channel 14 sonobuoy
many blue whales in area Sighting #1018
WFM - Nothing heard - just static
Stop 16:31:45

Note: 31 July 00

DAT & computer synched to GPS time.
Computer was 2 minutes faster than DAT time.

position 29° 52.10 N
115° 52.25 W

6 AUG 00

SONOBODY #4

DROPPED IN VICINITY OF POWELL MARSHES (S)

SIGHTING #1104

CHANNEL 30

14 MIN FROM 0600 TO 0614

DID NOT PICK UP - FAILED

DROPPED 1906 34

POSITION 24 05.40 N

111 39 20 W

POSITION NOTED IN WINCRO2

6 AUG 00

SONOBOUY #5

AUG 6, 2000

2ND SONOBOUY DEPLOYED IN VICINITY OF 2 BATHY-
THERMOGRAPHY (BT) STATIONS

CHANNEL 31

CAN PICK UP RADIO TRANSMISSIONS (1900-20)

NO BIOLOGICAL SOUNDS

1700 SONOBOUY DEPLOYED TO STATION 1700 BT STATION
COMM.

START 1859 33

STOP 1941 03

Sonobuoy position 24°N 05.38
111° 39.28 W

Tape DST00-01
Sonobouy #6

Re-examination 5/16/01 - Shanklin
8/7/00

B. musculus

(*B. edeni* also in area)

1001 Bouy launched - good bouy
101505 ^{LF} Vocal? 43-73Hz ~1sec
102050 ^{LF} Vocal? 41-75Hz ~1sec

-end of recording -

Two possible Vocals!!

7 AUG 00

SONOBOUY #6

Channel 9

Logging of HOB

B. musculus

Aug 2, 2000

(bined)

Several animals seen in this area along with
at least 1 *B. edeni* which animals were individually identified.

Small boat was deployed for photos & biopsy - successful

START RECORDING 957 08

STOP RECORDING 1039 00

100848 water noise

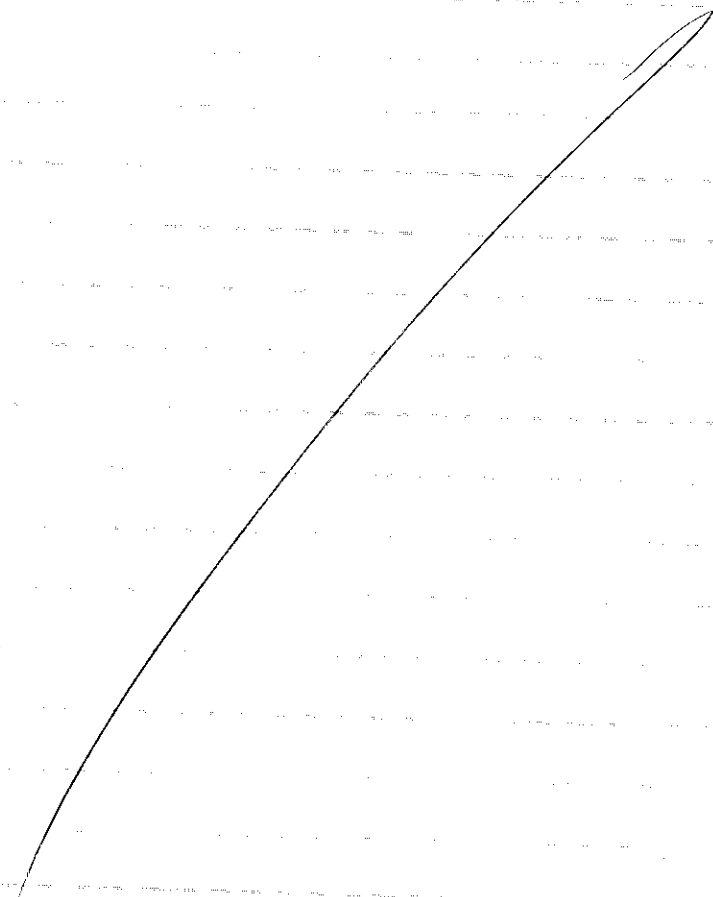
57 CLB

Steno

Sonobuoy #8

528 pm - deployed on Steno - no antennas popped up yet

rescan, drifting



8/5/00

DSS-013 02

13494 Alt 20.34

Sci - heavily fanned w/ hydrophone from small boat
a few faint whistles heard

22:34 end recording

Not hearing much despite the fact we are within 20 meters
of the feresa. This recording was made after biopsies were
taken.

Due to distance from ship, we were unable to stay and attempt
more recording.

9/7/00

S. attenuata (Star unicorn fish) # 1311

Top says (Ship clocks are 1hr ahead of this - forgot to adjust LAT time)

1318L

22:35

start recording

nic whistles thru out, knocking from hydrophone

22:40

End recording

Hydrophone / small boat
(10Hz - 40kHz)

Feresa attenuata # 1298

Channel 15

53

Soft

Sonde buoy #9

9/21/00

Brydes/Sci # 1341

#15 (1005 AM Local (Says 906 on DAT)) * The DAT is 1hr and 5sec ahead of
computer time *

Atime 31:25 Some static noise, think it's problem w/ buoy. Can hear ship initially
heard small boat. Hearing water. Not hearing anything biological.

34:02 Atime - will continue to record but need to head up top to search for
whales -

43:00 Atime : whale surfaced a few minutes ago about 500 meters in front of
ship. Buoy is close but we have been unable to resight.

Round 0955 ship time:

1 covered on E 030 looks fairly dense from 40 - 95 meters, dense layer
at 80 meters. Can't save some E 02-50 data. Going to run 10 minutes
ASC P 0100. Dense layers at 50m, 80m & 95m

54:32 Atime. Still recording, ship noise fading, lots of static noise, maybe due
to higher bandwidth conditions.

59:10 Atime. heard some high pitched squeals not sure if Biological
mechanical.

1:02:17 Atime. we are about 1/2 mile away from buoy.

1:02:00 Atime 10:14L: Both Icons down to 2 bars, lots of static/noise
can still hear water

1:05L: Signal lost

1:05:12 Atime: end recording

9/27/02

Torscape Sonobuoy (14547 14548)
Same day 14547

Small boat
10-13-14 (10-13-14)
Recording high class

At time 1:05:09: Torscape Sonobuoy area. (1332 local)
Continued to other side of island. Great recording.
Many animals remained after Sonobuoy, after others left the whole recording.

We started a 1st group of 3. Then was a 2nd group.
1. amount of bird droppings. ^{many} Animals seen in subgroups of 2-5 individuals.

4th 1:10:28 - funky vocals

1:12:09 - some weird sounds, mechanical, biological

At time 1:15:30 - end recording (1353 local)

ape or LP. tape. Now getting better before I begin recording.
Sounds like there is also a problem w/ the connection. All the funky Radio the tape sounds.

★ Remainder of Tape #2 blank - put in fresh tape to start off Leg #3 with ★

12 October 2002

B. musculus

Tape DSJ 00-03

Sonobuoy #10

Channel 19

19:15:32 Sonobuoy dropped.

Blue Whale. Splitting 1543

Dry location: 10°05.420 N

31°12.578 W

WFM Freq: 164.125

Ship speed 7.8 knots

ESJ 00

Sight Blue whale in area. Slow moving animal and curious about 100. Submerged 100-150 m of bow.

Bigley:

DSJ 001012-04

Sonobuoy dropped as I was pointing up rhio and leaving area of whale. To be able to wait until rhio was completely on - would not have recognized. Beautiful - 4 - mainly, but decided to go for it b/c we have so few positive blue whale recordings this year.

19:14:32 Start recording on DAT tape 12

19:15:32 Sonobuoy dropped off port stern. Saw baboon.

19:23:24 Clear ship, water, VIFAR sounds along with others. I can receive bar - All 7 bars visible on both. DAT recording level @ 2 1/2 with 1-dB over 12 and 1-dB one bar below 12.

19:25:12 Icons: top received 7th bar flickering (at 97)

bottom 6th "

19:28:12 top 6th "

bottom 5th "

19:33:00 top 5th "

bottom 4th "

9/27/07

Torsion (1404/105)

Small boat
1000 ft deep (1000 = 1/2 ft)
Recon with 1/2 ft depth

At time 1:05:09: Torsion
(1332 local) continuation of the
Many animal movements in some of the other areas of the

whole recording.

We arrived at 1:05:09

1. amount of tail slapping

1. individual

At time 1:10:28 - funky vocals

1:12:09 - some weird sounds, r

At time 1:15:38 - end recording (E

tape on LP. Some time s

sounds like there is also a problem
sounds

★ Remainder of Tape #

to start off Leg #3.

Tape DST 00-03

Sonobuoy #10

B. musculus

1915 Sonobuoy deployed

1920 Ship noise still pretty loud

1935 Still no vocals

1945 Still no vocals

2000 Still no vocals - Stop Here

Listened for 45min - NO VOCALS
(so I stopped @ 2000)

12 October 2007

B. musculus

19:15:32 Sonobuoy deployed

Blue Whale. Sighting 1543

Drop location: 10°05.420N

91°12.535W

*Re examination 5/10/01 - Skunk

10/2/00

Tape DST 00-

Sonobuoy #10

Channel 10

WFM Freq: 164.125

Ship speed: 7.8 kn

East

ca. Slow moving animal

DST. Sonobuoy #10

born. B. musculus

DST 001010 - 04

as it was moving up

ca. 1000 ft. Too late to

completely on - would

be about 4 - many very

not b/c we have so few possibilities

this year.

on DAT tape #2

off of 1000 ft. Sonobuoy

re, B. musculus sounds along

some receive bars - All 7

both. DAT recording line

B over 12 and 13 dB one

bar below 12.

I can't top receiver 7th bar flicking (at 97)

bottom 6th 11

top 6th 11

bottom 5th 11

top 5th 11

bottom 4th 11

~19:36:45 Icom: top receiver 4th bar flickering
 " bottom 3rd " "
 ~19:39:37 " top 3rd " "
 " bottom 2nd " "
 19:59:11 " top 2nd " "
 " bottom 3rd " "
 20:02:00 " top 3rd " "
 " bottom 2nd " "

} ? weird static pulses
 } 20:01-02
 } 1st water

* CTD in water - Ship stationary. Sonobuoy dropped 4 minutes prior - CTD location:
 10°10.649' N
 91°13.368' W

20:10:05 Still hear water and DIFAR.
 20:15:02 Stopped monitoring receiver.
 ~21:05 CTD out of water. DIFAR still heard a couple minutes before MANTA goes in.
 21:13 Still hear water, DIFAR and 1st bar. 3rd bar of top receiver flickering; 2nd bar of bottom receiver flickering.
 ~21:45 Tape ended - 2 hours.

13 October 2000 B. musculus
 Sighting #1545 Blue whale. No biopsy.
 11:27:45 Sonobuoy dropped.
 Drop location: 10°54.620' N
 091°53.160' W

Tape D8:00-04
 Sonobuoy #11
 Channel 12
 WFM Freq. 170.5
 EQ50 ON.

Two maybe 3 blue whales in the area. Beautiful, but with occasional squalls. S. attenuata and S. longirostris (Eastern) in area too. EQ50 showed a few small possible prey patches at ~150 m.

Balloon surfaced about 10:00. DIFAR heard ship static, diler and water noises.

12:03:00 Checked Icom's. 2nd bar flickering on both. Heard water, diler, static.
 12:45:00 Both Icoms showed the 7th bar. Just heard static. Rewound tape to 1 hour to allow recording of a 2nd sonobuoy.

~19:36:45 Icon top receiver 4th bar flickering
 ~19:39:32 " top 3rd " "
 " " 2nd " "
 19:54:11 " top 2nd " "
 " bottom 2nd " "

20:02:08 Top Tape DSI 00-04

* CTD in water Sonobuoy #11
 dropped 46'

1127 Bury Deployed (Intermittent Noise)
 1131 Intermittent noise getting worse (shorter intervals)
 1134 noise stopped - lots of static, dist. ship noise & water noise difficult to hear

20:10:05 Still hear

20:15:02 Stopped

~21:05 CTD out

a couple

goes in

21:15 Still hear

3rd bar of

2nd bar of

~21:15 Tape ends

13 October 2000

B. musculus

Stratling #1545 Blue whale. No biopsy.

11:27:15 Sonobuoy dropped.

Drop location: 10°54.620'N
 60°W

Tape DSI 00-04

Sonobuoy #11

Channel 12

WFM Freq. 170.5

EQ50 CH.

* Re-examination Shot at 10:00

B. musculus

10/13/00

1145 Novocals - noise is pretty bad, but I should be able to hear vocals (but there are none)
 1149 - 2 tiny squeak-like calls - didn't sound like whale
 1202 - Stopped - no vocals

Listened for ~35 min - No Vocals
 (stopped @ 1202)

whales in the area with occasional squalls. S. longirostris (Eastern) in the area. a few small fish at ~150 m.

noise. Initially like and water noises.

flashing on both. ar, static red for 1st bar. Just round tape to 1 hour of a 2nd sonobuoy.

Complete test
Done 10/31/00

Teas: DS300-05
DS300-05
DS300-05

October 14, 2000 B. musculus / Sound test?

Sighting 1561 - 2 Blue Whales together.

19:36:33 Sonobuoy dropped

Drop location: 08° 43.952' N
099° 19.329' W

Sonobuoy #12

Channel 17

WFA 162.625

Base Course 270°

Ground Speed: 8.2

Water Speed: 7.9

EQ50: On during drop.

Depth: ~ 3500 M

No ships w/in 10 nmi

- Note: Started recording ~ 10 minutes before drop. Waited to drop until ship was outboard, and we were able to course and speed for possible noise test. First tracks of recording on DS300-05.

- Two blue whales in area, possible 1st sighting. Too dark to see when first sighting, but heard ship, water, etc. etc. when came back up to check receivers. Both receivers maxed.

- Two possible noise test.

Time	Speed over ground	Speed through water	Deployment ~ 22 minutes
19:36:33	8.2	7.9	
19:48:52	8.5	7.8	
19:53:43	8.5	8.0	
19:58:43	8.5	8.0	

19:59:10 Slowing down for 1st ship.
Top receiver 1st ship, 2nd ship.
Bottom receiver 2nd ship.

20:53 CTD out of the water. Manta govt. Tuna are in ship's log that goes to lab.

Complete test
Done 10/31/00

Tape 03: DSJ00-05

DSJ00-04

Sonobuoy #12

Channel 17

WFM 162.625

Base Co 270°

Ground Speed: 8.2

Water Speed: 7.9

250: On during deployment

Depth: ~ 3500 M

No ships w/in 10nm

Sign on DSJ00-05

10/14/00

10/14/01

10/14/02

10/14/03

10/14/04

10/14/05

10/14/06

10/14/07

10/14/08

10/14/09

10/14/10

10/14/11

10/14/12

10/14/13

10/14/14

10/14/15

10/14/16

10/14/17

10/14/18

10/14/19

October 14, 2000

Sighting 1561 - 2 Blue Whales together

19:36:33 Sonobuoy dropped

Location: 08°43.952' N

199°19.329' W

* Reexamination

B. MUSCULUS

regarding time (at hour differs from log)

Sound Test was during a

Start Listening (recording?) here!

Tape - DSJ00-04

Sonobuoy #12

9:38 - Confusion

& I'm not sure if

blue whale sighting?

9:50 - No vocals yet

10:05 - No vocals yet

10:12 - No vocals yet

Listened for ~35 min - No Vocals
(stopped @ 10:12)

19:58:41

19:59:10

20:00:00

20:01:00

20:02:00

20:03:00

20:04:00

20:05:00

20:06:00

20:07:00

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23:54:00

23:55:00

21:31 Tape DS100-05 ended. Put in tape DS100-04 to continue recording in case the blue whales are still in area. Too hopeful maybe, but this is fun. Put in tape DS100-04 ~ 21:40. Sonobuoy 12 recording starts. 1 hour into tape. First half is recording for Sonobuoy 11. Top Icon: 4th bar flickering. Bottom Icon: 3rd bar flickering.

Photos and biopsies taken of both whales.

Distance: DSJ001014-06, DSJ001014-07

Upon initial sighting, looked like there were several whales. When we caught up to them, there was a pair. They were side by side throughout sighting/chase. They were curious about the DSJ (surfaced ~ 50m off station) and slowly traveled in an arc around boat. They did not like the chie.

~22:12 Top receiver at 2 bars. Bottom at one. Can still hear water. Had a couple down-sweeps recently. Blue whales??

22:40 Tape DS100-04 ended. Receivers both at 1st bar.

October 30, 2000

B. edeni

Sonobuoy #13

Sighting 1632. Cow/calf Brydes whales.

09:04:25 deployed. Antennae/balloon. Whal 168.625 did not pop. Not receiving. Just hearing static. Monitored for 1/2 hour. Re-recorded over tape.

Drop location: 12°28.9 N 92°30.5 W. 109 mi from shore. Thought we were farther.

BAD BUOY

Tape DST00.06 *Re-examination 5/10/01 - Skankin
Sonobuoy #14 Sound Test/B. musculus 10/31/00

1807 Bouy deployed

1811 Good sound (good chirps, a few whistles)

1815 Been getting horrible HF electrical noise (intermittent)
HF sound good though

1827 HF electrical noise is pretty obnoxious
No vocals yet

1837 No vocals yet - stopped here

Listened for ~30 Min - No Vocals
(stopped at 1837)

October 31, 2000 Sound test/B. musculus

Sonobuoy Sound test and Blue whale sighting

Sighting # 1648 - Single blue whale.

18:10:26 - Sonobuoy dropped

Location: 09° 51.146' N

095° 36.904' W

Biopsy:

DSS001031-01

Tape DSS00-06

Sonobuoy #14

Channel 20

WFM 164.875

Ground Speed 10.0

Water Speed 9.0

Depth ~3900 M

No ships w/in 10 mi.

18:10:26 - Sonobuoy dropped when back to course and speed.

18:12:30 - Top and bottom ICOM receivers maxed. Hear ship, Difar, and water noises.

18:14:12 - Bottom ICOM - 7th bar flickering.

18:17:30 - Speed over ground = 10.0; Speed through water = 9.2.
The readings constantly fluctuate 1-2 tenths.

18:19:27 - Top ICOM - 6th bar flickering.

Bottom ICOM - 5th bar flickering.

Hear water + difar.

18:32:26 - Top ICOM - 4th bar flickering.

Bottom ICOM - 3rd bar flickering.

Hear water, difar, static.

18:38:33 - Top ICOM - 3rd bar flickering.

Bottom ICOM - 2nd bar flickering.

Hear water, difar, static.

18:43:11 - Static is worse.

18:48:38 - Top ICOM - 2nd bar flickering.

Bottom ICOM - 1st bar flickering.

Hear difar and a lot of static.

18:54:47 - Slow down for CTD station. Signal is the same strength (2nd and 1st bars).

18:57:44 - Signal stronger! Top ICOM at 3rd bar; Bottom ICOM at 2nd bar.

Tape D5J00-06 5/10/01 - Skatkin

Sonobuoy #14 Sound Test/B. musculus 10/31/00

1807 Buoy deployed

1811 Good sound (good ship noise, etc. (heard))

1815 Been getting horrible HF electrical noise (intermittent).
[Faint & good, though]

1827 HF electrical noise is pretty obnoxious
No vocals yet

1837 No vocals yet - stopped here

Listened for ~30 Min - No Vocals
(stopped at 1837)

October 31, 2000 Sound test/B. musculus

Sonobuoy sound test and Blue whale sighting.
Sighting # 1648 - Single blue whale.

18:10:26 - Sonobuoy dropped

Loc³ com: 09° 51.146' N

095° 36.904' W

Biopsy:

D5J001031-01

Tape D5J00-06

Sonobuoy #14

Channel 20

WFM 164.875

Ground Speed 10.0

Water Speed 9.0

Depth 3900 M

No ships w/in 10 mi

18:10:26 - Sonobuoy dropped when back to course and speed.

18:12:30 - Top and bottom ICOM receivers maxed. Hear ship, Difar, and water noise.

18:14:12 - Bottom ICOM - 7th bar flickering.

18:17:30 - Speed over ground = 10.0; Speed through water = 9.2.
The readings constantly fluctuate 1-2 knots.

18:19:27 - Top ICOM - 6th bar flickering.

Bottom ICOM - 5th bar flickering.

Hear water + difar.

18:32:26 - Top ICOM - 4th bar flickering

Bottom ICOM - 3rd bar flickering

Hear water, difar, static

18:38:33 - Top ICOM - 3rd bar flickering

Bottom ICOM - 2nd bar flickering

Hear water, difar, static

18:43:11 - Static is worse

18:48:38 - Top ICOM - 2nd bar flickering

Bottom ICOM - 1st bar flickering

Hear difar and a lot of static.

18:54:47 - Slow down for CTD station. Signal is the same strength (2nd and 1st bars).

18:57:44 - Signal stronger. Top ICOM at 3rd bar; Bottom ICOM at 2nd bar.

19:20:41 - No signal. Both ICOMs show the last bar.
20:06:55 - Top ICOM - 2nd bar flickering
Bottom ICOM - No signal
Still on CTD station, but about to leave.

- Entire tape is recorded due to
CTD station. Still faintly receiving
2 hrs. later.

- Possible 90 Hz pulses from blue whale at beginning of
recording. Having problems receiving
from CTD b/c of color ramping, so
do not have details about possible
whale sounds.

November 1, 2000 B. musculus

Sighting 1651 - Blue whale

Biopsy DSS001101-01 - Sloughed skin

08:01:51 - Sonobuoy dropped

Drop location: 08°53.66'N

096°36.27'W

08:01:51 - Sonobuoy dropped

08:05:27 - Hear water, ship, distant

08:09:30 - Top ICOM - 7th bar flickering
Bottom ICOM - 6th bar

08:10:00 - Dolphin sighting at 10° right

08:13 - Top ICOM - 6th bar flickering
Bottom ICOM - 5th bar flickering
Lot of communication

08:17 - Top ICOM - 5th bar flickering
Bottom ICOM - 4th bar flickering
Stopped monitoring

08:42 - Off dolphin sighting chase.

Top ICOM at 3 bars

Bottom ICOM at 2 bars

Hear water, static, distant

09:03 - Top ICOM at 2nd bar barely

Bottom ICOM - No signal

End recording. Tape backed up to one hour.

Tape DSS00-07

Sonobuoy #15

Channel 20

WFS 164.875

19:20:41 - No signal. Both ICOMs show the last bar.
 20:06:55 - Top ICOM - 2nd bar flickering
 Bottom ICOM - No signal
 Still on CTD station, but about to leave.

Tape DSSJ00-07
 Sonobuoy #15

- Entire tape is
 CTD station.
 2 hrs. later.

- Possible 90 Hz pulses from
 recording.
 Some that
 do not ha
 whale son

0801 Sonobuoy deployed
 → More of that awful HF electrical noise
 (0810 - on chase for dolphins - DWN not heard @ sonobuoy)
 → lots of radio interference
 0811 - No vocals Yet (still lots of electrical noise)
 0824 - No vocals Yet (still lots of Elec. Noise)
 0831 - No vocals Yet - stopped here

Listened for ~ 30 min - No Vocals
 (stopped at 0831)

November 1, 2000 B. musculus
 Sighting 1651 - Blue whale
 Biopsy DSSJ001101-01 - Sloughed skin
 08:01:51 - Sonobuoy dropped
 Drop location: 08°53.66'N
 096°36.27'W

Tape DSSJ00-07
 Sonobuoy #15
 Channel 20
 WFO: 164.875

*Re-examine Sonobuoy dropped.
 near water, ship, distant

ICOM - 7th bar flickering
 - com - 6th bar

starting at 10° right
 6th bar flickering
 7th bar flickering

ation
 flickering
 in flickering

ing chase.

ous
 Sans.
 ic, distant
 bar barely
 a signal.

Tape backed up to one hour.

Tape DSJ00-07

Sonobuoy*16

Channel 28

WFM 170.875

Tag Sy: DSJ001113-01

Yarem/CL B, 2000 *B. musculus*

Sighting 1704 - 1 or 2 whales.

11:55:55 - Sonobuoy dropped

Drop location: 15°15.85'N

102°40.698'W

11:55:55 - Sonobuoy dropped

12:00 - 7 bars on both ICOMS

Hear ship, chifan

12:02 - Adjusted record level to ⑫

12:03 - Bottom ICOM - 7th bar flickering

~ 12:06 - 90 Hz pulse w/ slight down sweep just after 2 sets of three lines at 35, 50, 66 Hz.

12:08 - Top ICOM - 6th bar flickering

Bottom ICOM - 5th bar

Hear water, ship, chifan

12:12 - Top = 5th bar

Bottom = 4th bar

12:17 - Top = 4th bar

Bottom = 3rd bar

12:21 - Top = 3rd bar

Bottom = 2nd bar

Lot of static

12:24 - Top = 2nd bar

Bottom = 1st bar - No signal

12:25:45 - Adjusted record level - high Hc of ? static

DSJ 00-07

Sonobuoy #16

B. musculus

*Re-examination 010101 standard

11/13/00

1155 Sonobuoy deployed - lots of radio interference

1210 No vocals yet - still annoying electrical interference

1220 No vocals yet

1230 No vocals yet - stopped here

listened for ~ 35 min - No vocals
(stopped at 1230)

19.
2c

1

1 - Possible 90 Hz A type calls and 3 part calls at.

12:11

12:13

12:16

12:20

12:22

12:24

- Maybe more - difficult to see on Gram.

December 3, 2000

B. edeni

Sooty Buoy #17

Sighting 1794 - Off effort, but ideal conditions.

Channel 28

Drop time 11:27:10

NFSN 170.875

Drop location: 19°07.71'N

116°07.17'W

Bad buoy - No balloon popped. No signal.

Monitored for half an hour.

BAD

BUOY

Tan