

STAR 2000
McArthur

SONOBOUY RECORD

SONOBOUY

MAC 2000

STAR

→ 10 buoys use the wide - WFM - mode
Here is the list which is published in the Navy sonobuoy manual with
the asterisked channels prohibited as noted.

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	154.750
17	174.250	50	142.750	83	155.125
18	175.000	51	143.125	84	155.500
19	175.750	52	143.500	85	155.875
20	176.500	53	143.875	86	156.250
21	177.250	54	144.250	87	156.625
22	178.000	55	144.625	88	157.000
23	178.750	56	145.000	89	157.375
24	179.500	57	145.375	90	157.750
25	180.250	58	145.750	91	158.125
26	181.000	59	146.125	92	158.500
27	181.750	60	146.500	93	158.875
28	182.500	61	146.875	94	159.250
29	183.250	62	147.250	95	159.625
30	184.000	63	147.625	96	160.000
31	184.750	64	148.000	97	160.375
32	185.500	65	148.375	98	160.750
33	186.250	66	148.750	99	161.125

Channels prohibited within 200 miles of the coast

Sono-buoy # (53A, 57B)	Type	Chan#	Depth Setting	Date	Time	Tape#	Sight#	Species	Lat.itude	Long.itude	E	Water?	Ship?	Cetac?
1	53	55	70'	7/31/00	0947	Test 1	N/A	Ship Noise	25	06	N	48	Y	N
2	53	22	60'	8/6/00	1936	SB2	018	Brydes	10	59	N	12	Y	N
3	53	10	60'	8/6/00	1936	SB2	018	Brydes	10	59	N	12	Y	N
4	53	20	60'	8/6/00	1940	SB2	018	Brydes	10	59	N	12	Y	N
5	53	21	90'	8/10/00	1116	SB3	041	Brydes	10	07	N	38	Y	N
6	57	11	90'	8/11/00	1033	SB4	049	Globiophela/te	11	27	N	49	Y	N
7	53	9	90'	8/12/00	1412	SB4	067	Brydes	13	04	N	28	Y	N
8	53	56	90'	8/13/00	0905	SB5	074	Brydes	12	26	N	21	Y	N
9	57	9	400'	8/15/00	1521	NA	070	Indopacetus	6	50	N	39	Y	N
10	53	12	90'	9/4/00	~1028	NA	133	Brydes	11	30	N	31	Y	N
11	53	16	90'	9/4/00	~1028	SB6	133	Brydes	11	30	N	31	Y	N
12	53	13	90'	9/8/00	1610	SB7	140	Brydes	2	19.6	N	18.2	Y	N
13	57A	12	600'	9/9/00	~1612	SB8	144	O.orca	0	21.7	N	53.9	Y	N
14	53	9	90	9/10/00	1448	SB9	148	Brydes	2	27	S	14	Y	N
15	53	15	90	9/13/00	~1252	SB10	165	Brydes	4	23.5	S	21	Y	N
16	53	6	90	9/13/00	1534	SB11	168	Brydes	4	23.5	S	21	Y	N
17	53	21	90	9/13/00	1611	SB11	169	Brydes	4	23.5	S	21	Y	N
18	57	23	60	9/14/00	1490	SB12	173	Brydes	4	22	S	43	Y	N
19	57	12	60	9/14/00	1434	SB12	173	Brydes	4	22	S	43	Y	N
20	57	23	60	9/15/00	~1500	SB13	174	Brydes	4	03	S	18	Y	N
21	57	12	60	9/15/00	1552	SB13	174	Brydes	4	03	S	18	Y	N
22	53	17	60	9/20/00	1042	SB14	183	Brydes	3	10.44	N	50.26	Y	N
23	57	23	90	9/20/00	~1412	SB15	185	P. crassidens	3	24	N	24	Y	N
24	53	5	90	9/20/00	1416	SB15	185	P. crassidens	3	24	N	24	Y	N
25	57	19	100	9/22/00	~0705	SB16	188	P. crassidens	4	11	N	12	Y	N

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1	162.250	34	136.750
2	163.000	35	137.875
3	163.750	36	137.500
4	164.500	37	137.875
	165.250	38	138.250
		67	149.125
		68	149.500
		69	149.875
		70	150.250
		71	150.625

Jay Bc

1000000 1170

Sono-buoy #	Type	Chan#	Depth	Date	Time	Tape#	Sight#	Species	Lat	Long	E	Water?	Ship?	Cetac?		
			Setting						Deg.	Min.	S	W	(Y,N,?)	(Y,N,?)		
26	53	55	90	9/23/00	1545	5816	204	B. edeni	5°	32.4	N	95°	38.0	W	Y	N
27	53	12	90	9/23/00	~1630	5810/13	206	B. edeni							Y	N
28	53	63	90	9/23/00	1748	5817	208	B. edeni	5°	31.48	N	95°	22.01	W	N	N
29	57	23	90	9/24/00	1400	5818	211	Pilot whales	6°	39.73	N	93°	12.87	W	N	N
30	57	12	90	9/24/00	1407	5818	211	Pilot whales	6°	39.73	N	93°	12.87	W	Y	N
31	53	28	90	10/09/00	1852	5818	269	Brydes/Sei	1°	34.73	N	94°	18.66	W	N	N
32	53	5	90	10/09/00	1855	5818	269	Brydes/Sei	1°	34.73	N	94°	18.66	W	Y	Y
33	53	54	90	10/21/00	1446	5819	307	Brydes	11°	41.3	S	86°	52.1	W	Y	N
34	53	60	90	10/21/00	1541	5819	308	Brydes/Sei	11°	46.3	S	86°	51.4	W	Y	N
35	57	9	90	10/24/00	1430	5820	320	Humpback whale	12°	44.2	S	78°	55.3	W	N	N
36	57	23	90	10/24/00	1440	5820	320	Humpback	12°	44.2	S	78°	55.3	W	N	N
37	57	12	90	10/24/00	1445	5820	320	Humpback	12°	44.2	S	78°	55.3	W	Y	N
38	53	60	90	10/30/00	11:55	5821	338	B. edeni	9°	48.9	S	79°	03.5	W	Y	Y
39	53	25	90	10/30/00	13:42	—	330	Brydes/Sei	9°	32.1	S	79°	05.4	W	N	N
40	53	63	90	10/30/00	18:12	5822	333	B. musculus	8°	38.7	S	79°	04.8	W	Y	N
41	53	12	90	10/30/00	18:48	5822	333	B. musculus	8°	72.9	S	79°	04.8	W	Y	N
42	53	12	90	10/31/00	15:00	58	341	unidentified	8°	19.4	S	79°	54.9	W	N	N
43	53	60	?	11-02-00	18:45	5823	(358)	blue whale	6°	59.8	S	81°	91.3	W	Y	Y
44	57	23	60	11/09/00	9:12	—	402	Peterson	1°	42.1	N	80°	12.1	W	N	N
45	57	23	60	11/14/00	11:15	—	403	D. orca	1°	37.8	N	80°	4.14	W	N	N
46	53	57	?	11-02-00	19:21	5823	(358)	Brydes/Sei	6°	59.5	S	81°	91.3	W	Y	Y
47	53	61	?	11-02-00	23:04	5824	(?)	blue whale?	6°	54.6	S	80°	50.1	W	Y	Y
48	53	58	?	11-02-00	23:42	5824	(?)	blue? humpback	6°	52.0	S	80°	44.7	W	Y	Y
49	53	29	90	11-26-00	12:55	5825	478	Blue Whale	7°	45.4	N	98°	6.2	W	N	N
50	53	17	90	11-26-00	12:27	5825	478	Blue Whale	7°	45.4	N	98°	6.2	W	Y	Y

Jay Bc

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7170

SONOBUOYS USE The Wide - WFM - Mode
Here is the list which is published in the Navy sonobuoy manual with
the asterisked channels prohibited as noted.

STAR 00 MAC
CRUISE # 1616

1

Star 2000 McArthur
Sono buoy Log

The Sono buoy set up this year is essentially the same as on the Mac last year. We have two Icom-100 receivers (modified by Charlie Green) and a ship-installed Diamond F-23A antenna at the highest mast level. These feed into a Sony Dot-Mat recorder, with headphone output (using Line-in input)

SONOBOUY #1

7/31/2000

TEST SONOBOUY → TO TEST SYSTEMS & SHIP NOISE

94713 Start DAT

~~94713~~

94801 - Mark?

94850 - Sonobouy functional, hear ship noise & water noise

This Difar buoy is to measure ship noise.

We can estimate distances from time & speed

Speed Through The water is 8.7 Kts

1018 - Signal level is down to zero Bars on radio A and four BARS on radio B. However, both still sound OK.

1047 - Signal level down to two bars on radio B

1058 - Channel R - (radio A) is gone
Channel L (radio B) is staticy (2 BARS)

We continued straight on course for the duration of
The recording

Sighting # Sei/Brydes

8/6/00
Ch 22 Rt Channel

SONOBOUY #2

1930 Sonobouy deployed, Ch 22

→ Did not function at first,
So we tossed in another bouy
(sonobouy #3, Ch 10)

→ About 5 min later, this bouy
started working, but had tossed a 3rd
bouy (sonobouy #4, Ch 20) in.

FOR REST OF INFO ON
SONOBOUY #2 (Ch 22), see
Sonobouy #4 (Ch 20) → both
were monitored at the
same time

(DIED AGAIN AROUND 19:50)

Sighting # Sei/Brydes

8/06/00
1936

Channel 10

SONOBOUY #3

DID NOT FLOAT

BAD BOUY

8/06/00
(Sonobouy #4 in 'F)

2020 Another LF Pulse
Dolphins still going

2023 Switched L/R channels
both down ~ 1-2 bars
lots of static (i)

2026 Pulse - but lots of static from
radio interference - CTD radio chat time (i)

2029 End tape, poor reception

Monitoring w/ crossover, headphones & specplus in stereo

1940 - 1950 lots of ship noise, noise lines @ 42.46 Hz & 66.68 Hz
& 196 Hz
1950:15 signals at 42 Hz, left channel, DIFAR = 65°
1950:50 harmonic signals? 112 Hz, left channel, Rt Chan is noise
1953:20 " " ?
1955 Rt channel is alive, same as Left
1950-1957 Nearly continuous 100-200 Hz sounds
1957:40 Loud 43 Hz sound - DIFAR = 64°
2002 Ended monitoring, 100-200 Hz sounds continued
2005:40 43 Hz tone (w/echo?) yeh! a bottom bounce
2012:42 42 Hz tone, 2 sec long, DIFAR Bearing = 54° Magnetic
2015:20 Small 42 Hz tone - DIFAR = 31° Mag
2020 good 42 Hz tone, 2 bottom echos, DIFAR 42° Magnetic
2026 ok signal, interrupted by radio, DIFAR 47° Mag

Sonobouy Tape #2

SONOBOUY #4

8/06/00

1939 bouy deployed

Channel 20 (Left)

Sighting #18 Brydes/Sei

Depth = 3900 m

(*Dolphins - prob streakers - spotted ahead of ship
after returning to course/spd

1940 2 bouys in water
Ch 22 - Rt
Ch 20 - left

1941 Now off chase

1942 Dolphins just spotted ahead
Observers off effort → course & speed

1943 Ch 22 (R) = 4-5 bars
Ch 20 (L) = 7 bars

1950 Ch 22 out (no reception / bars)
Ch 20 good - 6-7 bars

52 two tiny "knocks"?

1954 now monitoring Ch 20 on both right / left

1957 41 Hz tone → suspicious (may have been
more of these earlier?)

2001 Dolphin clicks & whistles

2004 Dolphins still going at it (very cool)
Ch 20 Rt = 3 bars; Left = 4 bars

2005 2 pulses at 45 Hz

2008 116 Hz pulse somewhere around this time

2012 Great 44 Hz Pulse!! (possible multipath?)

2019 Rt Ch 20 = 1 bar (barely) but still sounds ok
Left Ch 20 = 2 bars but still sounds ok

Monitoring - Evening

- 11:17 begin
- 11:21 3 pulses 0-100 Hz, followed by system overload
- 11:27:15 Quiet again
- 11:28:30 system overload - no good
- 11:32:09 Finally ok sound
- 11:34:20 2 pulses
- 11:37 2 pulses. freq. goes to 3 Hz - Therefore not real.
- 11:38 Pulses 26-109 Hz
- 11:40:40 2 pulses
- 12:07:20 42 Hz tone 0.9 sec

Spot checked to end

Could not find any signals that looked convincingly like a baleen whale

Sonobuoy Tape #3

8/13/55 11:14

CH 21

90 ft

Baleen Whale

Baleen E

SONOBOUY #5

1120 Good RF and audio signals. DIFAL carrier is clear. Whale was $\frac{1}{4}$ mile away.

1125 Circling for biosonar, prey path radius @ 350 m

1127 up to 1/2 speed. now pulses

1129 upswEEP 59-82 Hz, 1/2 sec

1132 about 1/2 mile from sonobuoy. the whale

1137 34-84 Hz pulse

1138 up to 10 kts / noise heard 200 m below @ 31 sec

1140 whale is right in front of sonobuoy, whale from buoy

1141 25-32 Hz pulses / noise heard 200 m below

1142 30-32 Hz upswEEP / 1/2 sec long

1143 25-30 Hz pulses / no noise heard

1144 30-32 Hz pulse

1145 still circling near whale

1147 25-30 Hz pulse

1148 some faint 25-30 Hz noise heard

1149 pulse / observed briefly 6-10 sec resolution

1150 pulses @ 26 Hz over long

1151 end monitor for lunch

12:13 Shannon on 2500 monitor only

12:15 pulse @ 1000 - noise right to left

12:18 Good wave 81 Hz

12:19 brief 20 Hz pulse

Approx 1/2 mile from sonobuoy

End of
English 10/12

- 1220 some brief pulses ~ 13-40 Hz & 30 mV. Long burst
- 1221 Good long wave (12 Hz?) good & bright tone wave
above 2 sec lag!
- 1222 another wave 20 Hz, little bit up & down
- 1223 another well 63 Hz wave
- 1223 2 brief pulses ~ 16-9 Hz
- 1223 another 24 Hz wave (w/ echoes?) some wave
- 1225 2 Hz? looks like noise, but check it out
lots of noise ~ 8 Hz, but not sure if noise or wave
- 1227 pulse ~ 15-22 Hz. noise? background?
- 1228 pac - also low 20 Hz, very brief
- 1229 wave? 20 Hz - looks like a set of 5 pulses
- 1230 wave? 20 Hz, very brief. Last wave! They
are changing. Change RFLH when starting it
on screen. Check base signals ~ 20 Hz
We are up to 100 Hz now, so signal will be 2 Hz
- 1233 wave? 20 Hz
- 1234 wave 20-30 Hz
- 1235 wave 20 Hz
- 1237 pulse 20 Hz
- 1239 wave 20 Hz
- 1240 Back to Sonobuoy 48
- 1241 Ship still moving, but it looks a bit like
there's a wave behind there for there
- 1244 pulse ~ 20 Hz. (another 30 Hz pulse) noise
- 1245 pulse? 20 Hz? - and it's changed one
a few sec later
- 1250 some long wave ~ 2 Hz? - looks like some wave

Sonobuoy #8
Y3

8/14/55
Brydes Bay

1251 Pulse 10-25 Hz 51-105 Hz

1254 Pulse 10-25 Hz - peak ~29 Hz

1255 Another pulse? ~22 Hz - another one 1 sec later

1257 Radio interference 84 Ch 21
Ltr Ch 21 4 bars

1300 Pulse 24-30 Hz - 3 sec later

(Pulse 1 sec later 10 Hz - 2 sec later 10 Hz)

1301 Pulse 10-25 Hz - 1 sec later

1305 24 Hz Pulse

1306 24 Hz pulse (repeated) ~25 Hz

1307 Pulse ~23 Hz, another 3 sec later

NF signal down to 2.3 BARS

1311 Radio interference

1314 Sonobuoy Receivers

Rt Ch 21 Load

Left Ch 21 2 bars

1316 LF pulse, 215 Hz - another sec later

NO MONITOR →

1318 LF pulse (repeated)

1317 LF pulse

1319 Pulse ~73 Hz 2 sec later

NO MONITOR →

↓ NO MONITOR

1321 Sonobuoy 21 1327

1327 NO MONITOR

↓

Sonoboy
#6

Ch 11

S#

Globicephala & Tursiops

1133 Buoy deployed
Bad buoy. Float did not come up
No signal

(1)

BAD BOUY

Sonobouy #7 812100 Bredeni Mother/Calf

2:17ish wavering line @ 500 Hz - this must be from ship (almost continuous ~1 min?)

I may see some harmonics? - lots

2:18: Possible harmonics? Cannot see fundamental (ship noise high)

2:20:40 Sounds ~ 500 Hz, 400-500 Hz - very odd, very interesting
→ to ~ 2:21:30

* These 2 sets of signals (from 2:18, 2:20) are saved on Jays (computer) as Brydes 8/2a
2:26:20 pulse (up to 58 Hz) - could be interference?
3:03: another pulse (up to 40 Hz)

12:10 ish pulse - strong
pulses - ?? doesn't really look biological

13:00ish a few pulses -

13:55 pulse

14:45 fat pulse (has 2nd pulse behind it)

16:00 → good pulse, more promising

17:45 small pulse

18:00 2 pulses

26:00 2 faint pulses? } oops, did not save

28:40 pulse? } had problems, see
29:00 pulse } how others came out
36:00 pulse - faint (not saved) } then go back if necessary

55 min heard nothing. Signal still ok, but gonna stop monitoring

Sonobouy #7

Sonobouy Type #4

8/12/00
Ch 9

Bryde's Whale

Mother & Calf

* Shallow prey patches ~ 50-100m

14:12 rec on all is well, Good Boy
SB in

14:15 Water Noise, Ship noise, Difan > all ok

Rt Ch 9 7 bars

Lt Ch 9 7 bars

14:53 Low frequency pulses?

(headphones turned down - basically not monitored before now)

14:59 Suspicious pulses < 100 Hz (22-85 Hz)

15:00 another pulse? *

15:03 start .wav file recording

15:12 pulse?

15:15 - Not monitoring, put out array

15:44 - No signal on right

3 BARs still on left

16:00 Both Buoy are essentially gone



BOAT CHASE
WHILE



BOAT
BOILED, DONE
W/ WHALE
BOAT TURNS



BOAT drops
body



boat
leaves

SO, DIFAN
SHOULD
REFLECTING
UNTIL WE
ARE LATER
DONE PU BOLT,
THEN MAYBE
PASSED LATER
TO GO TO COURSE
& SPEED

8/13/00 B. edeni 09:05 Sonobuoy #8
Sighting # 74 on Sonobuoy Tape #5

Sonobuoy Tape #

Ch 56, 90 ft

0905 Sonobuoy functional - all bars = 7, both channels

0910 Resuming course & speed

The whales stayed in the same area (V-1/4 mi)
during about 1/2 hr of buoy attempt
Prey patch @ 250 m.

0914 Whale just surfaced within 50 m
of buoy

0921 42 Hz tone is suspicious

0923 42 Hz

0923 2 pulses

0924 42 Hz

0925 Pulses

0926 42 Hz ?

0927 Pulse 20-100 Hz

0928 Pulses 350-450

0930 Pulses 10-100 Hz

0931 42 Hz

0932 Pulses 350-450 Hz - Scattered throughout. Wide Noise?

0932 42 Hz

0933 ~40 Hz

0935 Pulses 100-100 Hz and 42 Hz.

0935 Few Pulse > 300 Hz for minute

0937 Pulse ? @ 120 Hz

0937 42 Hz

0937 58 Hz - loudest

Sonobouy #8
8/13/00^{cont}

0939 42 Hz
0940 42 Hz
0940 Pulses < 100 Hz
0941 2 40 Hz Pulses in a row
0942 Pulse < 75 Hz
0943 42 Hz
0944 42 Hz
0944 Right channel = 3 bars, left = 4 bars
0945 42 Hz and 2 low pulses < 100 Hz
0947 42 Hz - ~~two~~^{three} of them
0948 350 Hz pulse?
0951 42 Hz
0953 2-42 Hz
0954 44 Hz
0955 42 Hz
0956 42 Hz - two
0956 Static < 100 Hz
0957 40 Hz - less dense than others
0958 42 Hz
0959 Pulse 0-100 Hz
0959 42 Hz
1000 Pulse energy at 154 Hz - ^{center} narrow
1001 42 Hz
1002 Pulses? 0-100 Hz
1003 Pulse? - center @ 55 Hz
1003 42 Hz
1005 Stopped monitoring

← Rt Ch 1 bar
Lft Ch 2 bars

Shannon digitized some of the 42 Hz ~~pulses~~ tones
and we ran them through DIFAR processing.
They were certainly coming from a different
direction than the ship (ship left @ 186° True)

Sonobuoy #9

15:21 Sonobuoy deployed
- possible Indopacetus

Dead on arrival - no float

When we got into Hawaii, Jay
took the Sonobuoy Dat Tapes from
Leg 1 back to the lab with him

8/24/00

SONOB004 TAPE # 6

5min recording from
solitary hydrophone on AR2
of *Globicephala* off the
island of Hawaii

* Animals did not vocalize *

This recording occurred after
animals had been chased &
biopsied. They had been rafting
in the lee of the island, and
were not vocalizing prior to
biopsy attempts (we made 2 passes
w/ hydrophone array on Mac, no
vocals were detected).

S# 133 Bredeni

Sonobou #10

9/4/00

Ch 12 Bad Bouy

53A

906T

4hrs

60

~1019 am

Antennae did not pop up

Bad Bouy

S#133 B. edeni

1015 Start Monitoring (lost process)

1030 stopped monitoring

1030 restart monitoring

1040 still nothing, Ants/ly Quiet

Problems w/ Dat Hookup, Must re-monitor

1023 Bovy deployed

1024⁵⁰ knock-like pulse ~20 Hz to 127 Hz, 0.5 sec duration

1028²⁰ 16-150 Hz pulse - did not hear, but intense?

32⁵¹ 27-104 Hz pulse ~0.6 sec.

34¹⁰ 3 pulses III ~26-188 Hz

37¹⁵ 42 Hz, ~1 sec long signal

38¹⁰ 51-111 Hz faint pulse

39⁴⁰ sounds @ 130 Hz - occasionally get these. May be background noise??

41⁵⁸ sm, faint 40 Hz sound, ~1.2 sec long

48⁰⁰ static too bad to discern sounds

Some suspicious pulses, but not a whole lot. Also, some of the pulses that we noted might not have been on the recording, but rather just

S#133 B. edeni

Ch 16

53A

90H

4/1/03

Sondbury
#14

9/4/03

Bovy was deployed - 1023 am (we had problems & I'm afraid beginning notes are bad)

~1023 Bovy deployed, antennae up, Bovy is good (all bars on all channels)

1034 - ~~B~~ Animal should be ~ 3m from us at -176 bearing.

1037 Right Channel 2-3 bars

Left Channel 3 bars

→ There

1049 R=1 bar L=1 bar
getting more stationary

141-441
2 net

Ch 13 B.edeni

1610 Bouy deployed - radio interference (n)
- There is a fair amount of noise at 42 Hz (not a whale)

1614³⁰ - pulse (strong) 11-180 Hz (just before radio interference. Not sure if biological)

1615³⁰ a few faint @ 20 Hz ~1 sec long
→ I think we occasionally get

some very LF (20 Hz or so) sounds. I don't think these are from bydes' (bouy was tossed near whales, sounds are very faint) - But note that there are occ. 20 Hz sounds

1423 pulse 21-112 Hz, 0.5 sec duration

1428 Noise getting worse (reception not so great)

1430 pulse 22-80 Hz

1433 - another one of those 20 Hz sounds (have been a couple, this one was pretty good)

1434²⁰ pulse - main energy ~ 50 Hz

1436 Noise really getting worse

1440 - Noise really bad - I'm gonna stop here. Doesn't really look like there is anything substantial here (n)

B.edeni

SONOBOUY #12

FRI SEPT 8, 2000

Ch 13

90ft

4hrs

* note: shallow prey patches @ ≤ 100 m (high density @ surface) - At least one of these animals appears to be a juvenile, and there appear to be ≥ 2 animals

→ We got a biopsy (yeah!) - so it was sometime before we dropped a bouy. Animals have not been resighted, but we dropped bouy near original sighting since there was a good prey patch, and they will hopefully (??) go back to that spot when we leave

1609 - Start Tape

1610 Sonobouy Deployed

1611 Good Bouy - all Channels (R/L) - Full Bars

1615 (I hit pause for a second) - ~~played with the tape~~

* There is a distinct prey patch in surface waters, and it is especially intense (They are doing an XBT)

1633 R=2 bars L=2 bars

NOT MONITORING (But it's looks bleak)

1655 1 bar each (still not monitoring)

Sonoboo? B

CH12
57A
60 ft
8hrs

S#144 Orcinus Orca 9/9/00
DatTape SB #8

Large group of Killer whales (Adult males/females/
juveniles) swimming fast & changing directions a lot
as we chased them. Swam in Chorus Line a lot.

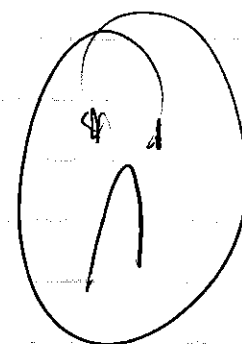
~1612 Sonoboo? launched, good booy Rt=7bars
Lft=7bars

no cetaceans, but all else good

stop ~~and~~ monitoring @ 16:45 no vocals
at all (i)

→ Now, monitoring from 16:40 to end (if no vocals,
will stop monitoring @ 17:15 or when reception goes
bad)

→ Listened through until ~~17:16~~ 17:16
reception was getting poor
no vocals



No
Vocals

Ch 9
90 ft
4 hrs
53A

B. edeni
S#148

Sonobuoy
#14

9/10/00

- 1448 Buoy in water, good buoy
(1456 on chase for another animal)
1503 Radio interference a little bit (from our ship)
(1517 may have been a LF signal?)
1537 L & R channels each have 2 bars
1546 No signals so far on sonobuoy, ∴ stopped monitoring

~~No Vocals~~

Yes There were
vocals (?!?!)

good

Sonobouy #5

165
S# ~~165~~

Bydes/Sei

9/13/00

Ch 15

90ft

4MA

DAT

1251 Sonobouy deployed

Shallow prey patches in area
(max ~75-100m)

SB #10 - BAD RECORDING!!!

1251 Sonobouy deployed

Rt Ch 15 = 7bars

Lt Ch 15 = 7bars

1302 - Just checked DAT & IT HAD STOPPED.
Recording!! Started it again @ THIS
Time

1312 Losing reception fairly quickly

Rt Ch 15 = 2-3 bars Lt Ch 15 = 2-3 bars

1315 Really losing Reception - Bad State

Rt Ch 15 = 1-2 bars

Lt Ch 15 = 2 bars

(1318 stopped monitoring for R & break)

1321 back

Rt Ch = 1 bar

Lt Ch = 1-2 bars

1330

Rt Ch = 1 bar

Lt Ch = 1 bar

Very bad Reception, no vocals - giving up

Still lots of Room on Tape, leave
in!!

9/13/00

* Note: I just noticed that the Sony DAT for the Sonobuoys was not hooked up properly, and it is possible that only one channel has been recorded to the DAT.

I don't know when this was hooked up wrong, or how many tapes/recordings were affected. All bryde's recordings affected should be re-analyzed/re-monitored, as the output to the computer was also hooked up incorrectly.

Hopefully no serious damage was done??