

STAR-97
D.S. Jordan

Sonobuoy
RECORD

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

Channel	Freq.	Channel	Freq.
1	162.250	34	136.750
2	163.000	35	137.875
3	163.750	36	137.500
4	164.500	37	137.875
5	165.250	38	138.250
6	166.000	39	138.625
7	166.750	40	139.000
8	167.500	41	139.375
9	168.250	42	139.750
10	169.000	43	140.125
11	169.750	44	140.500
12	170.500	45	140.875
13	171.250	46	141.250
14	172.000	47	141.625
15	172.750	48	142.000
16	173.500	49	142.375
17	174.250	50	142.750
18	175.000	51	143.125
19	175.750	52	143.500
20	176.500	53	143.875
21	177.250	54	144.250
22	178.000	55	144.625
23	178.750	56	145.000
24	179.500	57	145.375
25	180.250	58	145.750
26	181.000	59	146.125
27	181.750	60	146.500
28	182.500	61	146.875
29	183.250	62	147.250
30	184.000	63	147.625
31	184.750	64	148.000
32	185.500	65	148.375
33	186.250	66	148.750

* These channels prohibited within 200 miles of the coast

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Sono-buoy # (53A, 57B)	Type	Chan#	Depth Setting	Date	Time	Tape#	Sight#	Species	Latitude		N	Long	itude	E	Water? (Y,N,?)	Ship? (Y,N,?)	Cetac? (Y,N,?)
									Deg.	Min.							
1	53A	87	90	07-31-99	17:21	No Recording	1052	B. edeni	26°	42.79	N	113°	59.77	W	N	N	N
2	53A	87	90	07-31-99	18:15	No Recording	1052	B. edeni	26°	38.30	N	113°	57.41	W	N	N	N
3	53A	89	40	08-02-99	07:07	No Recording	1077	B. musculus	26°	09.04	N	113°	23.74	W	N	N	N
4	53A	86	400	08-02-99	07:30	No Recording	1077	B. musculus	26°	08.98	N	113°	23.81	W	N	N	N
5	53A	88	90	08-13-99	07:01	01	1105	B. edeni			N				N	N	N
6	53A	91	40	09-17-99	13:29	01	1307	B. edeni	16°	51.7	N	147°	15.4	W	N	N	N
7	53A	17	40	09-17-99	17:36	01	1310	O. bina	6°	42.75	N	100°	33.59	W	N	N	N
8	53A	17	40	09-17-99	13:54	01	1318	B. musculus	08°	43.41	N	94°	23.74	W	N	N	N
9	53A	17	40	09-24-99	13:53	02	1345	B. musculus	05°	43.41	N	94°	23.74	W	N	N	N
10	53A	86	400	09-26-99	07:59	02	1358	B. musculus	09°	26.08	N	091°	26.98	W	N	N	N
11	53A	90	400	09-26-99	09:09	02	1358	B. musculus	09°	58.91	N	091°	26.98	W	N	N	N
12	53A	19	60	10-11-99	13:25	03	1413	S. bairdii	00°	10.71	N	088°	01.0	W	N	N	N
13	53A	31	90	10-20-99	13:25	03	1434	P. macdonaldi	00°	26.4	S	095	21.3	W	N	N	N
14	57B	19	60	10-20-99	08:16	03	1440	S. bairdii	11°	06.4	S	092	07.3	W	N	N	N
15	53A	86	90	10-20-99	14:16	03	1440	S. bairdii	11°	06.4	S	091	07.3	W	N	N	N
16	53A	40	90	10-23-99	08:11	03	1443	B. edeni	12°	23.8	S	089	29.1	W	N	N	N
17	53A	34	90	10-23-99	17:50	04	1443	B. edeni	13°	07.1	S	088°	16.9	W	N	N	N
18	53A	34	90	10-24-99	16:50	04	1450	B. edeni	14°	00.0	S	088°	16.9	W	N	N	N
19	53A	86	90	10-25-99	13:37	04	1450	B. edeni	14°	00.0	S	088°	16.9	W	N	N	N
20	53A	40	90	10-25-99	13:37	04	1450	B. edeni	14°	00.0	S	088°	16.9	W	N	N	N
21	53A	34	90	10-25-99	17:00	04	1453	B. edeni	14°	03.6	S	088°	43.3	W	N	N	N
22	53A	86	90	10-26-99	14:34	04	1466	B. edeni	14°	14.4	S	088°	27.2	W	N	N	N
23	53A	90	90	10-26-99	19:18	05	1473	B. musculus	14°	16.5	S	079°	55.97	W	N	N	N
24	53A	86	90	10-26-99	19:51	05	1473	B. musculus	14°	18.1	S	079°	55.97	W	N	N	N
25	53A	20	60	10-27-99			1473	B. musculus	14°	18.1	S	079°	55.97	W	N	N	N

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Channel	Freq.	Channel	Freq.	Channel	Freq.
162.250	34	136.750	67	149.125	
149.125	35	149.500	68	149.500	

Sono-buoy # (53A, 57B)	Type	Chan#	Depth Setting	Date	Time	Tape#	Sight#	Species	Lat. itude Deg.	Long. itude Deg.	E Min. W	Water? (Y,N,?)	Ship? (Y,N,?)	Cetac? (Y,N,?)
26	53	90	90	11/18/99	1752			DUP						
27	53	76	76	11/18/99	1226	6	1492	B. melas	10	52.8 S	83		N	N
28	53	70	70	11/18/99	1236	6	1492	B. melas	10	53.2 S	83		Y	Y
29	57	19	60	11/15/99	1113	6	1502	G. melas	6	11.1 S	85		Y	Y
30	53	70	70	11/17/99	0940	6	1518	und. whale	5	05.7 S	81		Y	N
31	53	86	90	11/17/99	0953	6	1518	und. whale	5	05.7 S	81		Y	Y
32	57	23	—	11/17/99	1706	—	—	DUP					N	N
33	53	90	90	11/18/99	1238	6/7	1534	B. melas	3	11.9 S	83		Y	Y
34	53	40	90	11/18/99	1403	7	1534	B. melas	3	12.3 S	83		Y	Y
35	53	86	400	11/18/99	1500	7	1534	B. melas	3	12.2 S	83		Y	Y
36	53	50	90	11/18/99	1626	7	1567	B. melas	1	36.6 N	87		Y	N
37	57	19	60	11/11/99	0749	7	1575	S. alba	02	37.1 N	86		Y	Y
38	53	90	90	11/11/99	0825	8	1574	B. melas	00	37.8 N	86		Y	Y
39	53	40	40	11/12/99	1604	8	1589	M. melas	05	49.9 N	82		Y	N
40	57	17	60	11/16/99	1608	8	1590	T. melas	05	52.6 N	83		Y	N
41	57	23	60	11/14/99				DUP					N	N
42	57	23	60	11/20/99				DUP					N	N
43	57	17	60	11/22/99				DUP					N	N
44	53	90	400	11/22/99	1829	9	1661	B. melas	07	39.6 N	89		Y	Y
45	53	40	90	11/22/99	1836	9	1661	B. melas	07	38.6 N	89		Y	Y
46	53	40	400	11/23/99	0944	10	1663	B. melas	07	55.1 N	89		Y	Y
47	53	90	90	11/23/99	0957	10	1663	B. melas	07	55.1 N	89		Y	Y
48	53	86	90	11/23/99	1049	10	1664	B. melas	07	53.7 N	89		Y	Y
49	57	17	60	11/23/99	1300	11	1666	S. melas	—	—	—		N	N
50	53	34	90	11/27/99	1553	11	1670	B. melas	07	58 N	89		Y	Y

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34	162.250	67	136.750
35	162.250	68	137.000
36	162.250	69	137.250
37	162.250	70	137.500
38	162.250	71	137.750
39	162.250	72	138.000
40	162.250	73	138.250
41	162.250	74	138.500
42	162.250	75	138.750
43	162.250	76	139.000
44	162.250	77	139.250
45	162.250	78	139.500
46	162.250	79	139.750
47	162.250	80	140.000
48	162.250	81	140.250
49	162.250	82	140.500
50	162.250	83	140.750
51	162.250	84	141.000
52	162.250	85	141.250
53	162.250	86	141.500
54	162.250	87	141.750
55	162.250	88	142.000
56	162.250	89	142.250
57	162.250	90	142.500
58	162.250	91	142.750
59	162.250	92	143.000
60	162.250	93	143.250
61	162.250	94	143.500
62	162.250	95	143.750
63	162.250	96	144.000
64	162.250	97	144.250
65	162.250	98	144.500
66	162.250	99	144.750
100	162.250	100	145.000

[illegible]

Sono Luoy #1

THIS BOOK WAS TAKEN TO THE

LIBRARY OF THE U.S. AIR FORCE

I COULD NOT LOCATE THE BOOK

BUT I WILL TRY TO LOCATE IT

AND I WILL TRY TO LOCATE IT

AND I WILL TRY TO LOCATE IT

DID NOT LOCATE IT

* SORRY... I GOOFED & DID NOT KEEP

THE RECORDINGS FROM THE FIRST FEW

BAD SOUNDINGS (#3-4).

Sonobuoy #2

DID NOT FUNCTION

(SIC: CONFIDENTIAL)

NO RECORDINGS

Sonoboy
#3

Sonoboy did not function. Loud, good
static - in ship with no wind (dried).

NO RECORDINGS

Sonoboy
#4

Sonoboy was deployed from
RHIB with 100m of wire. The
R/V Jordan was 500m away.

Sonoboy did not function. I only
got static. I had deployed this one
to go to depth 400m (hoping for
less noise). Only got static, and
I could not hear the ship nor the
RHIB engines.

Green

NO RECORDINGS

Sandoway #2

Sandoway deployed around 07:03. One animal seen swimming - the big ship maneuvered around its location for a while, so ship noise is probably high.

07:25 we are now at all stop - the boat is about 1 nm behind us, and the whale is about 13 nm ahead of us. We hear above the animal and a few more (very faint). There was a lot of ship noise at 07:15, when the ship, bow, & engine were seen last time.

(Ideally, I think I should have waited until we had a better view of the animal.)
07:30 - but I was afraid it would miss it.)

07:31 - I did not see any very short pulse - with
at 07:28 or later in wide band.
72944 sharp rise (no? mechanical?) at high
components.

07:33 - It's starting to rain, heavily and soon.
Paved 12/15/12 07:34:12

07:55 - Signal low (no bars for 2 bars red)
08:00 - no signal (no bars for 2 bars red)
from low

* SANDOWAY WAS RECORDED INTO BOTH CHANNELS

SONOBODY SEEMS TO BE WORKING, BUT NO VOCALIZATIONS

... THIS WAS A SINGLE BRYDE'S WHALE AND WE CHASED IT ~ 1 NM & ATTEMPTED TO ELOPE FROM THE BOW - AFTER PICKING UP THE LINE WE DEPLOYED THE SONOBODY, AND AT THAT TIME WE DID NOT KNOW WHERE THE WHALE MIGHT HAVE GONE. WE THINK THE WHALE IS 2/100 LS AWAY FROM THE BOAT, BUT ITS EXACT LOCATION IS NOT KNOWN.

1 AT: GETTING WATER NOISE, SHIP NOISE, & RADIO INTERFERENCE. (ALL GOOD SIGNS, RIGHT?)

TIME OF FADEOUT TO 1 BAR. (BOAT TIMES)
 RD: 1:42 BLACK.

STOPPED RECORDING AT: 1:55

(Black record off
 remains strong pulse
 at 3-4 bars)

ERROR IN RECORDING:

THIS WAS NOT RECORDED ON TAPE
 (DID NOT SET RECORDER CORRECTLY)

* This goes for sighting #6, 7, and 8

* SONOBODY WAS RECORDED ON BOTH CHANNELS

SONOBODY IS FUNCTIONING! Small group of orcas,
at least 2 large adult males. Lost animal
17:43 - faint whistle and a faint whistle? (long
dive)
17:44 - possible faint whistles?

(Ship has gone back to course & speed, if I
get good signals and decreased static, then
I'll have the boat stop for a bit.

THEY HAVE PILOT WHISTLES! 20 ft 17:46
1 nmi.
(sig # 1310) 06:42, 008 N
100, 32.711 W

lots of static -

17:52 Upsweep whistle (sounded very narrowband)

(Some. I kept having to turn up the gain, etc, didn't check
time bars went down)

STOPPED AT 18:03 (i)

ERROR IN RECORDING:
REORDER SET INCORRECTLY,
NOT RECORDED

Sonobuoys #8

1

Deployed buoy which animals were ~200m off the bow. We are going to maneuver & try to biopsy them, so ship noise will be high & extra while. Reception keeps fading in/out.

14:04 - Animals are very near bow - we had been at 1/2 speed, now at 3/4 speed. Animals had been (originally) slow traveling.

14:06 (black receiver had been on FM that was reason for fade in/out - now on UFM)

14:08 faint whistles

14:12 faint whistles

14:19 faint whistles

14:24 Nothing really detected reading