

cont from previous Greenbook

at 818 SB2 deployed @ $55^{\circ}48.2'N$
 $166^{\circ}19.8'W$

→ Monitoring Ch 56 on left/right

822 Busy within 0.5 mi. of right whale

823 Start recording again.

836 Ship turning 100° left

859 right 5° left 14 reticles, right whale up (has breached)
so close to SB that mostly hearing engines

902 Signal went out on SB? - No ~~tape ended~~

903 Flying bridge has SB @ 4° right $\approx 1\frac{1}{2}$ mile.

905 New Tape SB DAT 76 started recording

912 ship noise (engines rev)

915 ship coming up to full speed.

917 observers have a pair of right whales @ 40° right & 2.3 mi

920 calls upsweep both $\sim 60^{\circ}$ true

926 calls upsweep

931 ship coming to minimum speed.

932 calls upsweep - again $\sim 60^{\circ}$ true

935 upsweeps $\sim 67^{\circ}$ true

938 upsweeps - didn't get a fix

942 calls (upsweeps & other?) - some calls (fin?) ~ 20 Hz

945 Fin @ ~ 30 Hz $\sim 180^{\circ}$ true

951 humpback's (bangs?)

951 downsweep

955 strong up $\sim 64^{\circ}$ True

1008 SB ~ 3.5 mi away - signal getting weaker

1013 NEW TAPE = SB DAT 77

sb 1c = Ch 58 - should die ~1200

sb 2 = Ch 56

sb 3 = Ch 62

1112
SB3 w/in
0.5 nm
of RW

36

SB2 (cont...)

36

09 Sept. '04
right whale

1014 strong rw call ~74° tone

1016 have been recording a mix of right, fin, and humpback calls

1027 ship turning 10° left @ 3/4 speed (~7 knot)

1028 ship turning 130° left @ ~8B ~3.5 nm from ship

1033 rw calls - then ship noise

1035 turning 60° right - still detecting ship noise

1037 28° right/minnow spec

1038 ship noise gone

1042 upswipe ~53° tone

1043 fin whale ~30 Hz 193° tone

1045 fin and sword ~60° tone

1048 upswipe ~53° tone

1049 ship tracking = engine noise

1107 SB2 fades in/out - will deploy a 3rd buoy when ok

1112 SB3 deployed - Ch 62, 8 hrs, 90ft

55° 48.524'N; 166° 14.734'W

1113 whale up 70R, 12nm, AR1 coming in

→ change both channels to Ch 62

1120 set SBDAT 77 / BRT SBDAT 78

→ AR-1 intermittently very loud for chases

1144 very good calls now

1150 → Going to original waypoint this morning (H5)

1204 monitoring SB3 on both channels; buoy is now 1nm away

SB1c should be dead about now

SB2 is ~3.6 nm away.

9/9/04

(3)

1227 sb2 - 3nm - Ch 56-left/ch1 - 1 bar
sb3 - 2.3nm - Ch 62-right/ch2 - 3 bars
now monitoring both channels

1228 ERT 78 BRT 79

1241 - Ch 56/SB2 out - monitoring SB3 on both channels

1258 → we are now ~4nm from SB3 - goes out a lot w/ radio interference

1316 - lots of good MN calls, med-intensity RW up
- SB3 (both ch) is at 4nm

1317 #572 MN 058°, 0.8 net (now @ 65, 0.6 net)

1320 SB3 is 4.6nm away - 1-2 bars reception, but sounds great (radios interfere a lot, though)

1334 #572 one animal @ 141R, 1.8nm

1336 ERT 79 eot / brt 80 bot
SB3 in/out

probable
1352 - There is a whale off port low-MN; RW is nearby, too

1418 - bony is in bad shape - reception mostly dead

(3)

1425 SB4-deployed (will be left ch/ch1)
Ch 54, 8 hrs, 90ft
55° 51.694
766° 7.891

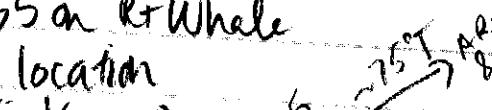
1428 Good 100Hz up-sweeps @ 318°T

SB4 Ch 54 - (new) - left/ch1
SB3 Ch 62 - (old) - rt/ch2

15

38

9/9/04

5b5 on Lt Whale
location
(w/in 14nm)


38

147°55'51.5 166°03.8 -Rt whale location-new one

→ 34R, 1.8nm - still S#572

1431 Full Speed, Going due East for 5 min
see what we run into

1432 - This buoy is going bad, keep recording, no monitor.

→ BAD TONES, NO D/FAR

THERE ARE VOCALS, BUT THEY ARE F---UP

1443 ~~ent~~ SB DAT 80 EOT

no more recording for now

1448 Turned on a RT whale - just flicked up
→ gonna toss another buoy

1451 - CH 60, 8 hrs, 90ft dropped almost 255°
S 77' 11" N
 166°
03 98 N

451 - Start Recording - Good buoy, good calls
SB5-Ch 60 - Both Channels, full reception

145(e) lotsa ^{rn} calls 303°, 304°

also hb thumps 302°

1458 on visual 65° R, 0.7 mi

-1502-

1502 rw ups 302°

1906

1910 CW 485 300

1911 hb shump 301° ship ~54°

1814 fainter and up - overpowered by hb thru

9/09/04

very

1515 faint rw up steps - distant?

1516 fainter rw 307°

1518 hb hump 308°) faint rw - can't get good by

1519 med-faint fw 304° , 305°

1520 faint rw 307°

1526 [373] blow 0.75 mi $010^\circ R$ int, id humpback

1527 great on call 304°

1528 " 305° , 307°

1529 letter B humpback

1531 C hb $2^\circ F$ 0.4 ret

1538 faint fw kps 308° ? hb thumbs are necessary

1545 PW ups 300° , 303° , 292°

1546 1349 land out ups 293°

1548 1346 ✓ dn ups 301° loud!

1548 1348 faint ups 293° - scattered

ship 72°? 1349 med-faint 296° , 1350 higher freq 24

1559 ERT 81, BRT 82 1W 39 24

1641 - Going after some animals now - s#573

573G - originally 55R, 0.6 ret (1620) poss. MN

573H - originally 5R, 1 ret 1641 und

1643-S15 now @ 2.6nm - only 1 bar, doesn't hook to good

1645 573 H 9R, 1.8 ret - resight

1656 buoy is very good again at 2.3nm from buoy

1658 resight 573G 45L, 4.5 ret - MN

SO. 9 13, 9

(39)

09/09/04

1701 - ARI ~55°51.2N, 166°10.1'W - They have whales
~3nm from North of them

1703 - sight 0° 3 animals, 1nm ahead of us

1706 set SBDAT 82 / but SBDAT 22

1711 cw dn 246°, ship 138°-ish (scattered)

1714 faint cw moan? 120 Hz, 162° ship 150°

1716 cw moan 304°

~ humpbacks "off bow fairly close"

1733 ship 177°

1735 start heading toward AR-1

1738 hb thumps, some faint cw moans

1743 nice upshot ... can't get by bc of pops

1744 " 249°

1747 faint moan? 100°, ship 227°

1751 hb thump-modes 91°

1758 buoy dying? lots of pops

will wait to see if comes back

1803 no signal on sonobuoy

1801 S#574 330° 0.4 ret humpbacks (2)

1802 S#575 cw 4°R 0.5 ret

1813 ERT 83, will monitor but not record
to see if buoy recovers

1855 Ch56 SB6 - 55°52.57N
deployed during 12 nm of a RW 166°12.72W

1838 Start Recording T84

(38)

9/09/04

- 1840 super loud rw up! 109°
~1842 couple more ups } recurring
1847 mean 120 Hz } staticky
↓ more noise - can't distn 6c of ↑ bursts
1852 hb thump
1855 RW up w/in ~200 m of sbuoy 90° mn
1858 RW ~200 m from sbuoy, $\sim 0^\circ$ mn

1903 ship 90° , poss RW mean 273

1903 rw ups 172° , 170°

1907 " - not good bgs, AR 1 too close

1908 sighting 6° L, 2 mi

1910 dn-up 156° ? ship 300° ? not

1911 RW sighted 15° L off bow 0.26 mi,
passing Sonobuoy 6 about 100 m

1915 sk6 just went dead

1916 pause tape 84

1939 sk #7 Ch 62 resume tape 84

1940 staticky bursts

↓ loud calls 192° then mean hb thumps

1942 dn-up 192°

1943 mean 196° , 1944 mean 192 ship 190°

calls continue ↓ 4 RW's w/in 1 nm radius

1946 loud dn up 221°

{ 1950 con call 16° R 3.5 mi, 400 m $1/2$ mi off
More 1-2 mi 90° R

(40)

5516
5515
166

9/2/04

⑨

- 1948 down 192°
- 1954 land up 168° , 1955 same all 169°
- 1955 buoy getting bad static + pops
- 1956 land up 170° , more ups 170°

2003 Heading towards cow/calf 1.54 nmi off bow

⑩

- 2004 SB8 deployed w/in 1nm of cow/calf $\angle 55^\circ 47.41'N$
 $166^\circ 16.33'W$
new Ch 54 SB8 left / Ch 1 full reception
(old) Ch 62 SB7 - right / Ch 2 - 1 bar
- 2010 2nd SB8A $\angle 54.1^{\circ} N$ $166.3^{\circ} W$ 85
- 2016 3rd w/in 100m of bow
land up @ 0° L

New SB8 = L
old SB7 = R

2020 land up 11° L
2023 land ups arrive R first not good
arrive L 1 sec later brng

2027 single RW 100m off bow
RW 45° R 0.5 mi

2031 UPSWPS L 14°
R can't get good brng

9/07/04

0751 Sbway 1: 57-04.60
165-43.78

1340 Sbway 2: 56-24.92
165-48.25

1916 Sb 3: 56-20.39
165-43.87

1913 Sb 4: 55-58.76
165-56.90

1950 Sb 5: 55-58.10
165-48.45

~~9/8/04?~~

2035 RW up L 16° arrive ~ 1sec later
R 164° arrive first

2051 Mean L 19°
R 167°? arrive almost same time

2054 RW up L 17°
R 163°

2058 CTD Time - will hold station here for CTD

2100 LOUD ~ 167°M (Ch2); 17°M (Ch1)

2106 weird sound on L only \Rightarrow CTD? not good long
hb |
thump | 2107 Mean - L only 173° (CTD going in)

thump | 2116 end tape 85, BRT 86

2038 faint mean? L 225°?, R 201°?

2151 Fain fin call

2157 RW & med. \Rightarrow no good DIFAR.

2200 Humpbacks silent for a minute, then started again

2205 faint rw mean? 222°?

2207 fin whales - L - faint

2207 rw up L 249°? (Ab thump also)
arrive L R 238°

2 sec before R

9/9/04

0423
Sb 1c:
good
55 - 49.78
166 - 17.54

0417 Sb 1b: 55- 50.0 (bad)

166 - 16.80

0411 Sb 1a: 55- 50.23
(bad) 166 - 15.98

0818 Sb 2 55-48.85
166 - 19.83

1112 Sb 3: 55-48.52
166 - 14.73

1425 Sb 4: 55- 51.69
166 - 07.89

1451 Sb 5: 55- 51.77
166 - 03.99

1835 Sb 6: 55- 52.602
166 - 12.77

Sb 7: 55- 51.01
166 - 15.58

Sb 8: 55-47.42
166 - 16.33

9/8/04?
evening 9/07/04

buoy 1 2320
55 - 50.16
166 - 15.07

9/08/04 buoy 2 0012
55 - 50.27
166 - 11.95

9/08/04 buoy 3 06:05
55 - 46.097
166 - 11.511

buoy 4 08:25
55 - 51.16
166 - 14.21

buoy 5 16:22
55 - 54.18
166 - 00.58

2211 faint mean L 221°
2214 " " " 215°

2216 old buoy down to 1 bar rec'd - going
2 mi N to get closer.

2217 faint dn-up R 47°

2221 faint up L 230° arrive 1st 177
R 123° ?? not good arrive
bg 181

2223 ERT 86, BRT 87
fin whales cont

2246 have missed some faint rw calls in there

2258 rw faint dn-up L: 221°

2325 rw bloop? L 163° arrive 1st 1621.1
R 172° 4.4s delay 1625.5

2328 faint up L not good bg.

ERT 87, BRT 88

2332 faint up L 222°
R crappy bg 4.5 s delay

9/9/04

9/09/04

2336 faint cw up L 227°

R $212-218^\circ$? bad

2338 "

L ~~old~~ bad bearings

2344 "

L 223°

R $\sim 204^\circ$

0020 Faint cw up R 83°

0022 " not good brg

9/10/04

0027 blurb $\sim 161^\circ$
160Hz R 170

0030 few more faint ups on R

0034 faint up R 85° arrive 1st

L 83° ? delay 2 sec

0037 " L 89° ?
R 77° delay 2 sec

0038 ERT 88
arrive 1st

done for the night!

42

09/4/04

RW sbuoy 53-16.92 N, 165-30.10 W

2009 ERT 89

2117 ERT 89 BR 190

St 37 Right Whale.

bucy 1: 03° N. 28' E 165° 30.09' N

ch 54, 2ms 90ft

2000 Right whale w/in.

2009 Start recording, RW 200-300' ahead of us
Buoy 1 deployed no float, bad buoy

2014 Sonobuoy 2 deployed - Good buoy, 50m apart.
→ whale is 250m Q50R
→ 53-16.92 165-30.10

2027 ship v. close to right whale

2028 RW 50m, 30° R

2034 RW 90° R, 100 m

2043 RW 40° L 300m

2045 RW 70° L 200m

2046 sbuoy visual 75m off stbd beam

2048 RW 50m port bow

2049 RW is 50m from sbuoy

2056 no light yet heading ~1.5 mi from sbuoy
to do CTD.

2109 hb + hump

2117 ERT 89 BR 190

2126 pose RW bias. 202 m ship about 240°

2207 fin whale calls

2227

9/14/68

84

2227 ERT 90 BRT 91

2308 tone 320Hz 345° poss 6.6s?
was broken up, not solid tone
over 10 sec long

85

2312 broken up tone 15 Hz again
→ fast & it spreads!
bearing 300°, distance 6.5 miles

2332 ERT 91, BRT 92

0040 ERT 92, brt 93

0044 → we are turning to head back towards the box,
still very quiet (just fins)

0147 ERT 93, brt 94 bot 3H11 Quiet!
But 3H11 recording second,
well, I'm not out of tape yet!
(Just in case)
→ just fins

0158 faint 60Hz down sweep then another
1 min later. No lift

0255 ERT 94 / brt 95 - still finners
→ ship turning around again to head
back to buoy,

09/16/04

9/14/04

(43)

0307 finners very low now; we are now 2.3 nmi ID buoy
0316 very faint 40 Hz down sweep (a/sec)

0413 pilot tones are dead

0418 SB2 53-16.47 165-23.40
ch 62, 8 h, 90'

0423 - buoy is good, still rec. tape 95 - diff. tape type
(HF, 6.5m = 2.5m)

0450 ERT 95, BRT 96

0516 reception is fuzzy but pilot tones still ok

0546 ERT 96

0607 first 10 s of 96 but with noise
exp. shadowing (rec + pause)

0608 ERT 96 off

0659 More fin whale calls

0706 " " "

0713 fin calls little change

0744 visual team on effort, going into search mode

0820 Nothing

no record of a fin
of a fin
of a fin

9/15/04

0842 Coming back to CS → done with search option

0913 getting pretty far from us today.

0917 Humpback singing → headed over there
S1598 21L 0.6 ref Mn

0920 we are out of range of SB, will wait a
little while till they get this animal (also
we turning slightly back toward SB)

0921 animal is exhibiting lots of aerial behavior.

0930 will wait till this animal is photo'd then
get LISA ID possibly put in arrays.

(44)

MORNING SONOBUOY OPS

9/16/04

51° 58.4638' N 163° 06.904' W

Ch62,8msec, 90ft - SEDAT 97

Sperm Whales

Faint Blue Whales

Faint Fr Whales

0506 sonobuoy deployed, Good way start recording
full reception on buoys

0516 Faint PM; Faint BW @ ~20 Hz

0532 Loud LF noise <20 Hz, but still 4 bars capture
(we are 15nm away from buoy)
signed still good water noise, etc.

0547 - not really getting Faint blue whales so much
any more

0613 got SEDAT 97 - will monitor, no more
recording unless I hear something

0625 turning to head back to SE. no sound
intelligible

0642 Occasional low freq. chirps & pings
likely noise from Blue Whales

0702 Faint first Blue whale, but pretty quiet

0736 Stop monitoring time to go on effect
NO more recording

45

BW-362 Monitor buoy

51-06-76, 1600 ft

Ch. 69, 7 day 10

0450 deployed

0500 BRT 98. buoy is good, full signal

0607 ERT 98

0608 just monitoring - + 99 is in but not rec.

0700 Step n 10m line, no 0.0m

9/17/01

MORNING SONOBUOY OPS

9/18/04

110' GOOD FISHING

0502 - buoy deployed - no sound yet (0602 was 32°)

1518 - buoy 2 deployed - giving off a bad signal
check this 2002

→ Buoy 2 giving off very bad
signal - check this 2002
all other buoys picked up

So, I give up. It's 30 knots &
12' foot seas, no signal!

46

612

ORCAS

9/12/04

53° 56' 65" N 159° 16' 78" W, Savor area
Ch 21, 81, 90' depth 99'

remained?

possible DN
loss BC

0902 Buoy in the water, start 1200 deg
- scattered 100m, 90deg
other subgroups ahead of the ship

0904 - DW ?

0905 - 180°, also turn

0912 DW ?

0926 180° & turn ship

0932 another 180°

0935 quite a bit of static on Lucy, still off the
↓ so much turning!

0945.6 possible EC but light in noise

0949 received level down to 1.2 bars

0953 coming into 1.2 bars

0959 could hear 1.4 bars

10.07 I guess EC but noisy from swell/echo!

10.10 almost sounds like ETT

1015 end monitoring 4 mi away, fuzzy reception, 1 bar

1015 ER SDA#99, 1:13:49

(will leave in b/c tape is 2 hrs,
still has ~50 mins left
(will use as EOT)

9/2/04

CH56, 2005, SBLAT 00

55° 31.352'N 155° 12.129'W

0506 buoy deployed, good coaxial reception
0507 start recording, SBLAT 100

Retrievable SB Test 3/21/04

SBDAT 40, ch. 5b
Channel 5b.
TEST tape + retrievable Sonobuoy
(start at 0.04.15 sec elapsed time)
(10 min at least!)

1443 - Getting ready for sonobuoy test

1444 - Sonobuoy in the water

57° 3.70N

156° 9.27W

1446 = Started recording on SBDAT 40

@ 0.04.10

1448 = lots of static → no plot tones

② 75 + 15 kHz

1453 = we are going to do a dive by the Sonobuoy

1456 = No receiver bars either

1509 = Dsp recording @ 0.27.04
haven't heard a thing.

(47)

MORNING BLUE WHALE OPS

9/22/09

55° 31.352'N 155° 12.129'W

Ch56, 8' rms, 90ft SBDA/T 100

probably
FIN

UNKNOWN 2.11m downweep??

→ Sei Vocals??? Fin Vocals??

→ messy cause we are at threshold

0506 buoy deployed, good buoy.

0507 Start recording, SBDA/T 100

0512 Faint / Messy 35-20Hz Dr

0512 Faint / Messy 35-20Hz Dr

0519 Faint Dr 35-20Hz ~30-17Hz Dn

0520 Messy ~40-20Hz Dr "messy"

0531 Faintish Dr ~35-20Hz Dr (cold)

0538 - 0541 pulsed down - several of them around this time, many very faint
→ Similar to my Sei whale (Hawaii)
(and some fin calls, unfortunately)

0542 Buoy is 1.4nm behind us, 3-4 bars recpt min

* think it's
still there
but faint
at 1.4nm

0554 Still some scattered messy calls of variable
intensity ~35-20Hz Dr, some pulsed propagation0558 LOUD downweep (messy) ~2-40Hz?
went above my monitoring range.

Many more intense (but still messy) DN @ 35Hz

0603 Buoy is 2.1nm behind us, 2-3 bars recpt min

→ Still intense/messy 40Hz Drs - quite similar
to my sei vocals from Hawaii

9/22/04

0607 Loud 35 Hz Dr - 3 modes? ("messy")

Difar good @ $301^\circ N \rightarrow 318^\circ T$

0613 Now Difar at $273^\circ N \rightarrow 290^\circ T$

0633 Fair energy @ 20 Hz - hummm
Suspicious, but shot far off

0650 Super-duper faint down-sweep ~ 75-60 Hz?

0700 Still recording, no DIFAR
fewer vocals now

Bboy is 3.5 mni alone
Signal is going out at Bar reception

0709 ERI SONGS 100%
no more recording

(48)

SH 642 ORCAS

55°51'339"N 155°17.933"W

ab2/04

CH21 (518)

SDAT 101

off Chirikof Island
SE of Kachemak Bay

* Some orca calls in
the beginning - they
appeared to have stopped
calling in the
middle

(possible feeding to
running away?)
now they have been
quiet since the beginning

- 1219 Buoy deployed, good buoy, full erection
- 1220 begin recording
- 1220 * Orcas spread out ~400m, LSR
There are some good calls, but no iso
(cable hung up?)
- 1223 Call
- 1223 Dorsal of 2; 40R, + 300m
- 1224 API passing by very loud. Otherwise buoys work
- 1224 45L
- 1225 27L
- 1227 * LOTS of iso calls on buoy → ship
speeding up?
- 1228 Buoy sounds really bad.
- 1232 Starboard is futzing with the antennae
- 1233 Propeller with noise back in.
→ still VERY loud at not quite whitenoise
- 1234 Zzzzzzzzzzz → engine? s-
- 1236 About 2 min → had some off bow, 100m.
zippop 1/2 mi ahead
- Subgroup 15L 1/2 mm
- 1239 Full speed, 180R
- 1240 AR-1, pretty loud.
- 1242 Mn up at 60° starboard bow + Vanni

80

9a

922A

1247 After 2nd re channel for a minute

1250 Will deploy a 2nd buoy 37° 41' S

1249 RT changed its channel 15.

KW at 5R, ~400m.

1251 233 in the Water

55° 51.30 N 155° 16.94 W

BOTH CHANNELS 15 (SB3)

1253 We were closer or over, we all on 10 ft of bottom
They should have been (lost em) - but more
ahead @ 400m

1256 ARI super noisy - buoy works, but no signals.

1301 Still noise bleeps now (but still noisy)

Boat trailing to get some more static consistently

1258 FT 10m 100m 100m

1333 Up 1km ~120R

to RFI Speeding to catch up.

1336 Spring back to course & speed.

1400 FT still picking up ARI, reverb around. - no calls.

1343 We must be relatively open to buoy because I
am getting up on the channel 37° 41' S 155° 16' W

1357 Will record to end of tape!
To make monitoring!!

true < min + 1°

(50)

180
94
113
53

180
94
97
911
9/23/04

Morning SBlony

0509 in the water

55-23.56, 155-44.03

Ch 58 8 h 90' sb DAT 102

0510 BRT SBD AT 102

→ very seldom 120 Hz blebs (one at 0534)
↳ snared out, ~1 sec, not clear a few before
out at 0536

0535 20 Hz blb - 1 sec

0541 poss. fin whale? Broken up, short dashes 20 Hz
(~1 sec)

0542 120 Hz blb

0625 20 Hz waves, ~1.2 sec. flat top
↳ possibly at 30 s for a couple of mins

0629 20 Hz waves 267 fm good bearing
what's close to ship bearing from sb 62 fm

0640 258 mn 20 Hz blb (ship = 240 ?)

0643 20 Hz downp ~ - fm?

0645 ~ 20 Hz waves contin. occasionally

0650 ~ 20 Hz downp first fin 38 fm

0651 another " 76° mn

0702 " 77° mn

depth = 369 fm = 140 m

09/23/05

0712

0711 238° fin drif

0713 " 236°

0714 EOT se DAT 102

61

MID-DAY Convoy

9/28/04

Albatross Barks

-MN around here, will take a listen
for any right whales hidden
in the clouds



(5)

Lat/Lon 56°22'N 152°28'W

Ch 62, 8 hrs, 90ft SBDA-103

1129 Buoy deployed, good boy, full reception.

1130 Start Recording SBDA-103

Fin whale calls since very loud

20Hz down sweep

60Hz pulse - who does this?

1131 possible MN ~280 Hz? Also, non-stop fin

1132 Strange pulsing song sometimes >300Hz,

DN

1133 DN up sweep 260-110 Hz
couldn't get dB/lat 954 m

1144 318°M → DN 120 Hz - 80Hz

1149 80-110 Hz Up - DN 355°M - 13.8°T

1151 We are now 3.5nm from our buoy,

3-4 AM

1152 Scanning faint RW sweeps 355°M/13.8°T

1156 Done w/ these MN now, all the gear is back

The ship ~14°T to try to find those RWs

(we are now 3.5nm from our buoy)
~2 bars reception - losing reception radius

Fin Whales
Humpbacks

RW?

9/28/04

⑩
62° 88' N
56° 57' W * →
52° 26' W
⑤2

FW

⑤2, ⑤3
1209 50 Hz → PW? Tons of fins (stilt) & occasional MN
1211 change Ch1 to 54 (left) to pw
1217 BUOY 2 DEPLOYED east SW, 310 ft
Ch1 Ch 54 left - full except
Ch2 Ch 62 right - 12 hrs reaption

loud fins throughout

1230 60 Hz pulse 171° m

1232 old sb pretty much dead (fuzzy, 1 bar)

1235 60 Hz down 281° m

1236 faint reply, another couple, 281° m

1237 new sb up 30°

fw dn-ups

1239 both changed to 58 (sb 2)

1239 22° m fw up

↓ fw ups continue (+ some dn-ups)

1243 good by 19° m

some fw ups seen fainter than others
≥ 1 decibel?

1245 almost 5m from 362, 1 signal has

1250 change L to Ch 58

1252 new sb 3 57.2.99, 152.26.06
Ch 58 S h 90'

1253 full signal

⑤3
Ch 58

(22) 52

rw
hummock
dn

174°
172°
173°

1255 changed R to Sb 35 Ch 98

9/28

1257 hb thumps

1259 rw up right on top of a pop in system

1300 good dn up 170° m

1306 " 171° m

1312 good dn up 174° m - good big

1313 ERT 100, good up

1316 hb thumps, rw dn-up 174°

1320 rw dn-up 175°-ish

1323 series of calls - dn-ups + ups - did not get clear

1326 another up series, 175°, 179°

1328 faint major calls, some ups - not good
occas, hb + thumps

1331 good dn-up 179° - 1978° T

1337 180° m rw calls, 183°

1341 more rw calls 183°

1343 'suspicious' fluke - turning 30L 10L speed

1345 more rw calls 179° m

1352 hb thump at about 180° m

1353 not clear. more 184°

9/28

hb thumpS
fin Whales
(loud!)

1402 couple nobs 10 ips 182° m1407 few ups 180° 1411 More w ups 182° 181°

1414 ch R chan ch E4 L 3

ch L chan ch 58 = sb 3

1416 call L (sb 3) = 183° = 202° TR (sb 2) = 351° = 370° T

1418 nw cross fix 57-00, 165

152-27.957

1423 blip 80 Hz L 183° arc 252.35far away? R 197° arc 251.5

1430 60 Hz dns

1431 cw up L 178° m 06.73.25

R 346.355° m 06.73.75

1441 loud thump

1441 breach hb 20° L 1/2 mi (ship 215° T)

1442 08 442 L R can't get good sig

1444 cw dn up L 178° m = 196° TR 355° m = 13° T1448 animal 10° L 0.8-1.2 mi ship 2271448 5° L $1/2$ mi (216T ship)1450 turning 20° L cw calls L can't get good DitarR 355° 1451 snowy at 45° R L chan 1-2 bars

R chan 3-4 bars

N SB3
SB2

9/28

1453 scattered animals

1454 more sw ups L can't get good bz
R 355° m

1457 200 Hz mean R 294° m

1513 more sw calls R 356° m

1521 ~~ert sbDAT 104 / bzt sbdat 105~~

1522 ~ wave (Rst) ~ 100 Hz SBZ = 6° M = 25°

1527 Change left channel (left) SB1
It is 5 nm ahead of us (3 bars)

Ch1 (left) = SB1 = 3 bars = Ch 62
Ch2 (right) = SB2 = 3 bars = Ch 54

1535 RW Up 5° M = 23°

1539 RW Up 357° SBZ

1539 GSR FS - SB2 going out a bit, no RW calls lately

1602 possible RW ~ DN ~ 140 Hz? (SB2)

1621 ^{new} DN (RW?) SBZ = 89° M SBZ = 7° M

1627 Ch54 (SB2) seems max going out, but it is only
3 nm off our old path

Ch72 Shallow (SB1) - 6 nm off our old path

1630 Starting to get SB2 back now

(1633 switch off freq - check SB3 exception.)

1634 Switch Channels

SB3 Ch1 (left) = 1 bar 1000 ft/min
SB2 Ch2 (right) = 1 bar + 1000 ft/min

(54)

9/28/04

SB1 Ch 62

SB2 Ch 57

SB3 Ch 36

SB4 Ch 41

SB5 Ch 4

SB4

(54)

going to tape over SB DAT 104
 (first 10 mins)
 (shoving it into 104)

- 1635 ~ 130 Hz waves (Rw?) SB2 83° M = 102° T
 1638 ~ 130 Hz waves (Cw?) SB2 83° M = 102° T
 1639 SWITCH REFT (Ch1) back to SB1 (Ch 62)
 (signal is weak, but ok)
 1642 - Switch soft Ch temp
 1642 - Crazy MN calls on SB1?? Ch 1??

1645 SWITCH CHANNELS

- \ Ch1 (left) SB3 Ch 58 (1 bar)
 - Ch2 (right) SB2 Ch 57 (2 bars)
- 1648 NO MONITOR - GO TO DSCW ANOTHER
 BODY
- 1650 SB4 Deployed - Ch 64, plus, 90°
 Ch 64 Right / Ch 1 SB4 full reception
 Ch 54 Left / Ch 2 SB2 - 1-2 bars
 (SB1 is at S 7° 2.17' N 157° 31.00' W)

- 1654 Not much in the way right behind Ch 64
- 1657 SWITCH CHANNELS
 Ch 64 = left / right / Ch 1 SB4 - 4 bars
 Ch 58 = R left / Ch 2 SB3 - 1 bar

- 1705 120 Hz bloop's L 80° m
 sound humpbacky R 135° or 13°? m
- 1709 poss fw moan L > didn't get brg - heard
 R more up sweeps so ~~continued~~ can Ishmael

9/28/04

L = SB3

R = SB4

L
R
89°
120°

replaying tape 105

tape time:

17:09:22 rw mean? R 89° m = 109° T
L 120° m = 138° T

#106

SB DAT 40 is now

1718 bloop ~130Hz L

R RG 179°

1721 ERT 105

1722 -SB T(ascam) 106 NO Tascam Recordings

1739 SWITCH Channels
both →

Agh! Technical
difficulties
w/ Tascam

1752 back to DAT monitoring

SB DAT 106 in, not recording yet

(out of sb range)

L = ch 58 = SB3

R = ch 64 = SB4

1809 L channel kinda coming in
(still monitoring/not recording)

1814 Ch 58 (left, SB3) is in now, MN calls - good

1832 Faint RW up/sweep?

1840 - Now Ch2/right / SB4 is coming in a wee bit

1844 but SB DAT 106 but

1847 - 30K, HS to check out some blons

1903 SWITCH CHANNELS

left ch1 - SB3 Ch 58 - 1 bar - bad?
right ch2 - SB1 Ch 54 - 1 bar - good?

1907 faint RW up/sweep Ch2 54° m -

1926 Bad noise on SBB, (left Ch) - not sure
What happened?

1927 SB @ 08⁰⁰, 4 net 3 rest of buoy
SWITCH CHANNELS

left/Ch1 - SB# ch64

right/Ch2 - SB2 ch54

1958 Observers are Done for the Nile

PSI ERT SDAT 106 eet
will still monitor for a few
no more recording

2046 humpbacks! record to computer L=R=sb 3

2055 nice wavy moan ~300 Hz

2057 whoop whoops!))) /

still
recording

2102 stop rec. - noise.

2103 just lost sb 3? all static
(that's aft. right - deployed at ~1300)

2104 or monitoring sb 4 - loud fm whos so far

2127 stop monitoring. sb 4 is 4nmi away + fuzzy.

MID-MORNING BUOY
PORTLOCK BANK

10/04/04

Lat/Long $58^{\circ}10.17N$ $151^{\circ}8.35W$

SBCN 107 Ch 62 8hrs, 90° SBDAT 107

$58^{\circ}10.13N$
 $151^{\circ}8.61W$

Faint finnelis

Sbd1

0226 1st Buoy deployed - BAS BUOY - giving out a bad signal

Sbd2

0230 2nd buoy deployed - $58^{\circ}10.17N$ $151^{\circ}8.35W$

looks like another bad buoy!?

→ Kendal said noisy, but okay in battery

Next drift - I think Driftway is good

0846 Sbdat 107 BOT - Start Recording
faint fin calls

1015 89 Hz pulse

1048 1st Sbdat 107 BOT - No recording

1115 - Driftway starting to go in fast west

Buoy is now 2 min. behind us, 9:50 am.

Not sure why it is starting to go out now?

1142 Single 70 Hz, very short pulse - only one of 'em
(not recording)

1143 50 Hz pulse - just one (still not recording)

1202 50-60 Hz pulse - only one

1210 going back to course + east

1216 100-80 Hz down sweep (just 1)
(not recording)

1222 turning 75L

1221 54668 271 2 Sept 1967 Inc

1229 CS

1230 1051a reception 31ppm from SA
J 1-2 back

1237 still on for calls

1245 no more DIFAR signal for monitoring

2464 1967
C

Set 670 (MN, El)
(Waiting for final wind flags) 10/04/04

abdat 108

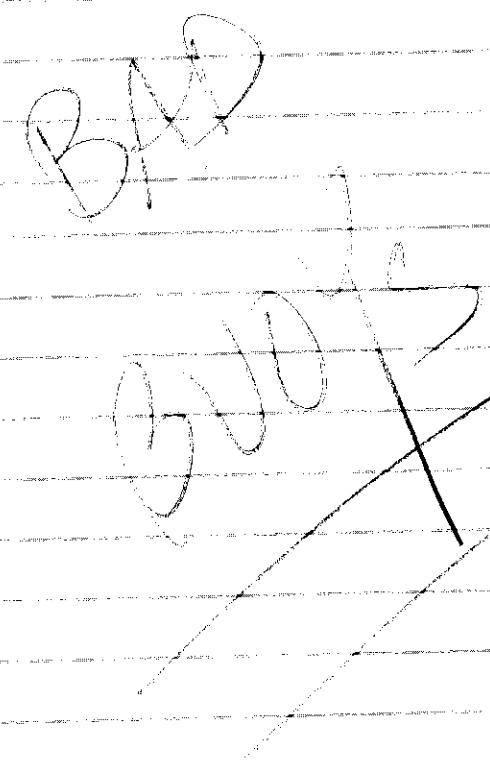
1554 buoy deployed doesn't look good, no signal yet
Ch 56 58°28.99'N 150°51.77'W

1603

bay deployed bad guys but a very bad signal
Ch 60 must wait a while, Captain etc
put out another sonar

1705

1706 buoy deployed bad signal bad signal
Ch 16 58°16.81'N 150°51.77'W



56

STR 673: MN and Fins

(listening for right whales)

58° 28.16' N 150° 38.39' W

10/05/04

TYPE 51 BUOY THRU DAY, 908T

SB1 -

BUOY

1301 SB1 Deployed no signal from buoy (53D, ch40)

FINS
HUMPBACKS

SB2
NO!!
BY

1300 SB2 Deployed TYPE 51 CH1, THRU 908T

1302 BBT CREDIT 10% BBT

→ good way, we are in a good
long feeding humpback on Port Side Bank

There are ≥ 2 MN, and some juvs visible

BBT & The Ship

1305 Ship noise still loud!!

1307 100Hz URGENT ALERT

1310 LOUD 100Hz Pulses

1314 CS - animals are feeding, no blocking
our receiver or this by NOISE!!
off and away from the ship

1317 50Hz pulse, straight down like a jet plane

1319 Humpback Grin???

1320 LOUD 60Hz down/up!

1321 Buoy is now 1.7 nmi behind us, 3-4 bars reception

1324 LOUD 90 Hz URGENT YY (short)

Some 170Hz pulses

1333 Lots o' Fin calls, still some pulses, etc

10/05/04

521

1343 We all think he boy - like him
~~still good things to talk about~~

1345 40% overlap

1350 Will record his last discussion
No more monitor now

(57)

S# 709 Mn, BP

10/08/04

Type 57 buoy ch 15 8h 90ft
58° 11' 33" N 151° 8' 92" W

1209 br + 109 bot
sb in & working well

1252 no vocals yet

- 1 nmi from sb, 5 bars on radio

1327 2.5 nmi from sb

- 1 bar on radio ?

- its dying ...

- no vocal yet.

1339 sb dead, but maybe will move closer
& pick it up again

1341 its back.

1348 Three bars of reception again!

1354 Weird blurs ~ 300-350 Hz, 1-2 sec spacing
between calls (?). (only heard 3).

1358 Blurs & spaced btwn 200-250 Hz. (Mn??)

1359 Loud call (?) also (different from above)
at ~ 20 Hz (Bm? or Bp?)

1401 Another 20 Hz call (?).

1402 " " " " - stronger. —

1403 Hearing these more consistently. Some of
the calls are short blips-finner?
Others are longer, but seem to slope
as opposed to step.

10/8/04

25Hz
15Hz

- 1407 LF calls tend to go from ~25 Hz → 15 Hz
1408 Hearing AR-1
1412 Calls are less frequent + More faint: (if 25→15 Hz).
~~1413~~
1415 ertsBDAT 109 cot
1415 brtSBDAT 110 bot.

1418 Only one reception bar again
I think those previous calls were maybe fins.
Almost 4 hours away from 381 now - very far.

- 1420 Still getting calls ~ 25-15 Hz.
1426 Songbirdy is fading ... sad :)

1446 Getting calls that are ~ 3 sec on
average in length + downshift from ~35
to ~ 15 Hz

1451 we're going to have in a 3 so we
can DIFAR on these LF calls.

1453 left (top) channel is now on chan 56
in prep for sb#2
right chan still on chan 15

1457 sb#2 in the water
-ugh sounds bad
58°14.8'N 151°10.4'W

1501 nice loud calls on ch 15

1508 switching it char back to 15

1510 beautiful calls

1512 we're going back to CS now

1515 we're going to try to run out the sb
KILL IT!

- It char back to ch 36 to witness the death

1519 we cap it off but it sufficed

1528 4.77 nmi from SB

- still picking up calls, but they're faint

1546 it char back to 15

- 1 bar

- faint call

- going to keep watching till out but
no more monitoring

(58)

S#709 cont'd

58:17149N 151:08.340W

10/8/64

Type S3 ch 64 8h 90f
sb #3

1634 Still getting good calls on sb#1
(type S7) if sb were going to try
another difar

1636 br + II bo+

- ch is ch 64 (sb #3)
at ch is ch 15 (sb #1)

1637 sb in - doesn't sound good in

1640 getting calls on sb #3! 163
30-50 Hz →
25 Hz

1643 Tried difar → didn't work

→ in the interim heard some If calls?

1646. Still getting 25 Hz calls.

1649. Difar on 30-15 Hz call = 223°) we think of
these timers.

1653 Another call ~ 217. downswp (mild)

1654 Another mild downswp ??

1705 RW calls??!! Getting downsweeps @
100 down to ~ 80 Hz.
Difar = 141.

82
10/8/04

1710 going to throw in another buoy.
Chan. 50, SB4.

58° 15.061 N 151° 16.383 W

1714 Does not look like it's working →
it's a dud.

1716 lots of finness(?), only have heard a
little 'ip' w/ no DPAR

1719 We are going to toss another buoy since
that one was bad.

Chan 50 SB5

58° 15.200 N 151° 14.147

IT'S BAD → ARGH!!!!

1727 both channels back to 64

1729 this 'ip' is transmitting a horrible
noise now too

- rt channel back to 50

1734 ch 64 ok again

1740 ch 50 is stepping all over ch 64

1755 150-100 Hz down sweeps
~1 sec long

1800 ch 50 is finally dead!!
(# I killed it)

1810 buoy isn't sounding so hot - dying?
- 3-4 bars
- 4-3 nm

1820 I think it's had - wire heading back towards

10/8/04

it to make sure we're not out of range

1824 looks like the signal is coming back

1831 100 Hz tone,

1839 ert 111 eot

wrt 112 bot

1850 this SB is dead.

1850 ok, it's back - kind of
1858 were pretty much on top of the buoy

now

- loud horrible electronic tone

- LF (25 Hz) down sweeps

1911 SB is really dead now.

1912, ert 112

10/8/04

5b #6
Type 33 8h, 90ft ch 64

58:19.65N 151.2.8260

Tape #112

1922 5b 112
-bad

1928 5b #7 ch 30
58:20.43N 151.0.7260
-bad

1933 5b #8 ch 32
right channel
left channel is still 5b #7
5b 8 @ 58:20.49N 151.0.7260

BAD

1947 I give up. The 5bs are all bad
I'll let the tape run out just
one more but I'm not monitoring any more

(59)

Evening Sandbroy

58° 35.5' N 146° 46.98' W

10/10/04

Type 51 90ft 8mns

1806 sandbroy deployed - good buoy

1807 start recording

1817 we turned around &

1823 some fin calls, not so many

not much of anything

1855 - very strange sound!!??!!

→ check Dies out, not sure what
it is?!?!

1912 Done w/ CTD ops - Sandbroy is 0.5nm behind us
only faint fins so far - nothing exciting

1924 Sandbroy is 1nm behind us, we are heading
away at half speed
4-5 bars reception

1933 still recording, not monitoring

→ Nada Mas

Fins

240

61

165

40

(6)

MORNING Sonobuoy

Lat/Long $58^{\circ} 31.67'N$ $145^{\circ} 28.65'W$

10/10/04

SB1/DAT 53D SBDAT 114 SBDAT 114

→ Morning buoy for Blue Whales in Central
Gulf of Alaska

0520 SB1 deployed (ch 62) - no signal yet
 $58^{\circ} 31.67'N$ $145^{\circ} 28.65'W$

FINS

0526 SB2 deployed (ch 58) - Good buoy

0528 brt sbdat 114 bot

0530 faint fin calls

0643 few faint calls 40 Hz downsweeps fins? sei?

0658 Stop Monitoring, nothing else
will record to the end of the tape

(6)

Evening Sondray

58° 19.86' N → 143° 13.71' W

10/10/04

SBDAT 115

→ listening for blue whales in Gulf of Alaska

1741 SBL in water ch 60 { 58° 20.12' N
143° 13.35' W } no signal

Sperm Whales

Fin Whales

1746 SB2 in water ch 54 { 58° 19.86' N
143° 13.71' W } 3 - Good Sondray

1747 start recording, SBDAT 115

↳ hearing flip & spermwhales

1802 fin whale

- 80 Hz ↗

1803 loud 20 Hz ↗

1819 did getting loud 20 Hz ↗

1840 fin calls fainter now

1900 cry over, coming to course & speed

1914 faint fin whale calls

- still 2 miles from sb

1923 some nice fin whale calls

1947 2.9 mi from buoy

still getting pretty good fin whale calls

1949 losing reception

- 2 bars on radio

- 3.2 mi from sb

1950. tape ended

The end

(1)

MORNING SONDEBUOY

10/11/04

58°27.97'N

SBDAIIIB

141°35.87'W

Type S7 Ch21

Sperm Whales

0527 SB1 (Ch26) deployed - evil bad noise buoy 58°26.07'N
141°36.64'W0531 SB2 (Ch64) deployed - evil noise, as well 58°26.35'N
141°36.84'W

0537 SB3 Type57 (Ch1) deployed Good buoy

very very noisy now for staticky white noise
but I do hear ship noise, water noise & PM
faint behind this noise0543 Ok, bad static noise better, but lots of LF
static-like pops - 56 bars reception (good)0546 - This buoy is not very good, but I think I
could idle if there was a blue whale call,
so I'll keep this, unless I think to get B.W.s,
then I'll toss another

0549 Start recording - real bad noise right now

0555 This buoy has been too noisy for ~5-10 minutes
I think it will come back around here...

but now it is too noisy to hear

0603 STOP RECORDING - Delete that Recording

(2)

Good
buoys *0608 SB4 (Ch2) deployed - GOOD 58°27.97'N
141°35.87'W 3

0609 BRT SBDAIIIB BDT

0630 - Getting bad interference noise sometimes

0638 - No LF Calls at all -- just some sperm whales.

0701 TONS of radio interference from Pacific Communication

0722 → Stop monitoring mobile whalers,
will record a few bits longer

(63)

Mink Whales

10/19/04

Type 57 ch24 56 53.5
135 50.1 @ 12:34 SBDAT 17

3 bad

all trace off
by one hour

124 → 124

- 1124 SBI deployed, no signal? Ch54
1128 Ch64t S82 deployed
1130 S63 deployed - bad one, too
1133 Type 57 Ch24 deployed
1135 Start Recording
1137 Going off to chase MN, will still monitor
bway
1143 lots of art noise so far
1153 20L 4ret - sb resight
1157 10ret 25L - sb resight
1210 Sonobuoy is broken - losing Neophon
Now. Stop monitoring, still Recording

(69)

S# 791 Berardius

Type 57, ch 15 SBDAT 118

56° 51.95'N 136° 11.15'W

0753 Toss Sonobuoy Type 57, ch 15

0755 Start Recording (SBDAT 118)

0801 AR-1 is launched, noisy

0806 2 sightings of berardius (group A+B)
174 1.3 miles
86R 1.4 miles

0807 - Stop Monitoring, still recording

(0855 - turning 180, temporarily lost buoy, buoy is
~3-3 1/2 nmi behind us, and Group A & AR-1 are
about 2.5 nmi in that same direction)

Still not really monitoring, the array is in

0904 - sonobuoy coming back in again (2.3 nmi ahead)

10/20/04