

STAR 2003

# RECORD ACOUSTICS

SONOBUOY LOG II

MCARTHUR

CONT  
(2/2)

STAR 2003 (2/2)

SONOBUOY LOG

MAC

S# 668

Bm

DATE 11/24/03

LAT 9:49.0 N

LONG 90:41.9 W

SB Type 53

CH 84

SB DAT 30

Time

Notes

1255

SB in - sounds good  
tossed from AR1

9:49.72 N 90:41.80 W

- our position when sb  
tossed from ar1

signal in boat

\* 09:49.0 N 090:41.9 W

⇒ was ar1 position when buoy  
tossed

1303

whale is 300 m off starboard quarter  
turning 190° so lots of ship noise

1306

2nd red dot in whale track is position  
of ar1 when sb dropped

1310

R chan wasn't on chan 84 until  
just now... ops.

!! \* BIOPSY + PHOTOS OF THIS WHALE \*

1340

1344 CS

1358

50 Hz tone

1402

4 bars on radio. can hear ar1 loud doing  
turtle work

1407

5 mi from sb

1422 7.8mi from SB  
1 bar

signal gone  
- stop monitoring + keep recording  
1440 end rec to prepare for next sb

S# 674

BM

DATE 11/24/03

LAT 9:52.98 N

LONG 90:53.40 W

SB Type 57

ch 10

SB DAT 31

Time

Notes

1454

buoy in sounds good  
whale was ~500 m in front  
of ship when buoy deployed

1457

60-40 Hz downsweeps

Sb making lots of noise as it  
gets settled

1503

Sb finally quiet. hear dw

1505

Sb noisy again

1506

quiet again

1510

~~sound~~ hear Pm ???

- going 3.6 kn so array sounds really  
bad + can't hear anything

- great dw

1513

Sb keeps getting noisy + then quiet again

1519

120 Hz tonal sounds

1521

1f (<50 Hz) tones + harms (?) but was  
not looking @ freq up to 20 kHz @ the  
time

1527

250 Hz pulse

1529

225 Hz tonal sound ~

1530

250 Hz pulses

1532

250 - 300 Hz tones - -

~~4/7/29~~

1533 200 - 300 Hz up sweep

1535 280 + 300 Hz tones —

1539 280 - 300 Hz up sweep /

1539 230 - 200 Hz down sweep

1542 more IF tones  $\equiv$  but monitoring to  
20 kHz @ the time.

1546 225 Hz tone —

1549 stop monitoring to make H<sub>0</sub> recs of Tt  
don't hear Pm-like clicks on array  
... hmmm

1553 on again

200 - 300 Hz up sweep

1555 long 200 Hz tone  $\tau$  harms

3.6 nmi from sb, 2 bars, starting to  
lose sig - coming + going

1557 200 + 300 Hz tones — — — - loud

1606 lots of radio interference —

1607 5.5 nmi from buoy - signal gone  
- stop monitoring keep rec.

S# 689

BM

DATE 11/25/03

LAT 9 18.37 N LONG 92 50.42 W

SB Type 57A ch 10

SB DAT 32

Time

Notes

845 am

sb in + working - launching  
- whale was 500m off port bow arch  
when sb dropped

849

- whale right in front of us

850

- 200 Hz up sweeps (180-210 Hz)

852

- hearing dws

~~852~~

- 50 Hz ~

853

- 80 Hz tone

- whale @ surf

855

- 70-50 Hz down sweep

- whale just went down ~ 150m 80R

857

- 70-50 Hz ds

859

- 70-50 Hz ds

901

- whale up 200m behind us

902

80-50 Hz \

- were 1.08 nmi ahead of sb

905

80-50 Hz \

907

70-50 Hz \

911

250-200 Hz \

916

78-53 Hz \

917

CS - going right past where sb was dropped

GOT PHOTOS + BIOPSY OF THE WHALE!!!

922

230-250 Hz \

934

stop monitoring for a minute

939 monitoring again - 3 bars, 2.8 nmi from sb  
- signal fading in + out

941 faint 80-50 Hz \ ?

948 sig gone - keep rec stop monitoring  
4.5 nmi from sb

957 cr - going to loss another sb

S# 691

DATE 11/25/03

LAT 9 17.58 N

LONG 92 55.65 W

SB Type 53 ch 64

SB CAT 33

Bm - maybe 1  
maybe 2

Time

Notes

1001

sb in - sounds ok but still

noisy settling

1007 70-50 Hz \

- faint

1009 another faint

70-50 Hz \

- sb still sounds bad

1011 sb finally sounds good

1012 ok, 1 bird, it's bad again

1013 good again

1016 50 Hz tone & harms

≡≡≡

1019 50-75 Hz

70-50 Hz \

60-30 Hz \

1021 80-50 Hz \

1022 faint 80-50 Hz \

?

1024 loud 100-50 Hz \

! :)

1030 boat noise - maneuvering to pick up ar 1

1031 long 200-100 Hz \

1032 lost signal ?

- just fonal noise

- 5-6 bars on radio ; 0.6 nmi from sb

1035 sig back

1037 CS

1040 ↑ rec for a bit

1041 stopped monitoring to deal w array

↑  
VOCs



1047 I'm back

1051 stop monitoring to rec Sc

1101 I'm back - still good 3.6 nmi away, 4 bars

1105 stopped monitoring again - sorry!

1109 ok I'm back again

1112 faint 70-50 Hz \ ?

1118 stop monitoring - another dolphin sighting

1205 or eot

ST# 695

Bm

DATE 11/25/03

LAT 9 8.29N

LONG 93 4.44 W

SB Type 57

ch 10

SB Dat 34

Time

Notes

1228

sb + sounds ok  
- whales last foot print was 50m  
of starboard beam when  
sb tossed

1230 Beautiful 150 - 50 Hz <sup>downsweep</sup> ~~sound~~ - loud!

1233 train of 85 Hz tones - - - -

1234 faint 150 - 50 Hz \

1235 train of 85 Hz tones

1235 whale 200 m off port

1237 train of 85 Hz tones - loud!

1241 train of 85 Hz tones

1242 dws

1244 train of 85 Hz tones

1245 " "

1246 " " - loud! ;

1248 launching ar1 lots of dw + bp  
more 85 Hz tones

1251 " "

1254 " "

1256 " "

1258 " "

1303 " "

VOC !

1304 85 Hz tones

1306 " "

1309 " "

~~1309~~ ~~1309~~ 1309 whale is now 2 nm ahead of us  
Sb is 1 nm ahead of us

1311 still hearing dws

1313 signal is coming + going - 2 bars  
only 1 mi away

1316 CS

- stop monitoring sb, keep rec.

1337 2.6 nm from Sb - no signal

~~keep rec~~ still rec just in case, but  
not monitoring any more

S# 732

Bm

DATE 11/27/03

LAT 9 8.75N LONG 98 36.3W

SBType 57 CH 10

SBDAT 35

~~DATE~~ Time

NOTES

1344

SB in sounds good

- whale v. close to ship when  
sb deployed

1350

85 Hz pulses

80-50 Hz \

long 50 Hz tone

1352

85 Hz pulses

1353

long 50 Hz tone

1354

sb 8ret off port beam

whale is in 25-30 m of it ☺

85 Hz pulses

1356

85 Hz pulses

1359

lots of ship noise

85 Hz pulses

1400

sb 1/2 mi 50-60° R

1405

85 Hz ~~pulses~~ pulses

1407

loud 85 Hz pulses

1412

50 Hz pulses

1414

85 Hz pulses

1415

loud 80-50 \

120-60 \

1416

85 Hz pulses

☺

VOCS!  
☺

1418 100-50 Hz \

CS

1419 85 Hz pulses

1422 85 Hz pulses

1423 100-60 Hz down sweep

1425 90 Hz pulses

1427 " "

1429 85 Hz pulses

1430 " "

1433 " "

1434 50 Hz tone

1435 85 Hz pulses

1438 " "

1442 100-60 Hz \

1444 losing sig 3.3 mi bearing ~~10~~ from sb  
- 1-2 bars on radio

1445 faint 100-70 Hz \

1452 sig pretty much gone 4.62 nmi from sb

1456 sig gone - end rec

S# 734

Bryde's whales

DATE 11/27/03

LAT 9.952 N

LONG 98 43.53 W

SBType 57

ch 11

SBDat 36

Time

Notes

1513

sb in sounds good  
- whale ~ 500 m ahead of ship  
when sb deployed

1517 80 Hz pulses

1520 60 Hz tone

1520 60-50 Hz

1521 80 Hz pulses

1523 long 50 Hz

1524 160 Hz tones

1525 230-250 Hz

1526 180 Hz tone

1527 port quarter 400 m, sb is starboard beam  
whales are on 0.3 nmi

- 85 Hz pulses

1531 80 Hz pulses

1538 " "

1.6 nmi from sb

1541 " "

1545 " "

1548 stop monitoring ~~for~~ to see dolphins

1554 dws

1559 2-3 bars on radio 3.68 nmi from sb  
monitoring again

monitor

1600 220 - 200 Hz \

long 50 Hz tone

1604 sig gone 4.4 nmi from sb

stop monitoring, keep rec

S# 767

Bryde's whale

DATE 12/02/03

LAT 15 25.82N LONG 112 21.94 W

Sb Type 57 ch 10

Sb DAT 37

Needs  
to be  
monitored

Time

Notes

1124

sb in sounds good  
dws

bryde's whale 400m SL when sb  
tossed

Trying for biopsy from bow  
- heard a few v. faint boings  
about an hour ago - have been in  
same area chasing bryde's the  
whole time

1128 not monitoring sb right now.

1135 heard boing on array (faint)  
- probably picked up by sb too

1143 faint boing on array

1147 bryde's just blew a huge cloud of bubbles

1154 bryde's is now 200 - 300 m off port  
beam - sb is 1nm behind us

- going to CS - no biopsy  
1206 heard boings on sb! 2.25 mi bearing 143



S# 778

Fin whale

DATE 12/5/03

LAT 20 54.93

LONG 119 38.25 W

Sb Type 57

ch 10

Sb DAT 38

Time

Notes

1039

tossed Sb, balloon

port beam 100 m

whale bow 20 m

Sb doesn't sound v good though

Bad  
bug

S# 779

DATE 12/05/03

LAT 21 7.57 N

LONG 120 11.16 W

Sb Type 57

ck ~~10~~ 10

Sb DAT 39

Time

Notes

1530

Sb in - sounds good  
- blue whales - cow/calf  
- 1000 in 200m of ship when  
Sb tossed

1534 ops! Pause was on until now

1544 faint 80-60 Hz \ ?

1554 110-100 Hz \

1552 Whale coming down port beam @ 300m  
Sb is 0.77 nmi ahead of us

1607 30-35 Hz /

1610 100-60 Hz \ (faint)

1618 20-70 Hz /

1619 120-140 Hz /

1624 10-20 Hz /

1626 30-70 Hz /

1627 whale is 0.5 mi 100L

Sb is 1.6 mi ahead of us

1645 whale is 500m on starboard quarter

Sb is 2.49 nmi from us

1649 145 Hz

1702 losing sig 1-2 bars on radio

Sb 4 nmi

- stop monitoring, still recording