[redacted]

09 Feb 2001 21:40:11

# SONAR LOG

(b)(1)

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB | P\S | RANGE RATE |
| 21:40:11 | 0 | 10 | UNK SURF | SA | | D | C* | 083R | M | -8 | 0 | | | | | | |
| 21:40:26 | 0 | 10 | UNK SURF | SA | | D | C* | 083R | M | -10 | 0 | | | | | | |
| 21:40:41 | 0 | 10 | UNK SURF | SA | | D | C* | 084R | M | -11 | 0 | | | | | | |
| 21:40:55 | 0 | 10 | UNK SURF | SA | | D | C* | 085R | M | -10 | 0 | | | | | | |
| 21:41:11 | 0 | 10 | UNK SURF | SA | | D | C* | 084R | M | -9 | 0 | | | | | | |
| 21:41:11 | 10 | 10 | UNK SURF | FC | | | FCS | 263TP | L | 0 | 0 | 29 | 176 | 21 | P092 | | |
| 21:41:26 | 0 | 10 | UNK SURF | SA | | D | C* | 086R | M | -10 | 0 | | | | | | |
| 21:41:26 | 10 | 10 | UNK SURF | FC | | | FCS | 265TP | R | 0 | 0 | 30 | 340 | 4 | S105 | | 3 |
| 21:41:41 | 0 | 10 | UNK SURF | SA | | D | C* | 086R | M | -11 | 0 | | | | | | |
| 21:41:41 | 10 | 10 | UNK SURF | FC | | | FCS | 264TP | R | 0 | 0 | 30 | 216 | 2 | P131 | | 3 |
| 21:41:56 | 0 | 10 | UNK SURF | SA | | D | C* | 085R | M | -14 | 0 | | | | | | |
| 21:41:56 | 10 | 10 | UNK SURF | FC | | | FCS | 265TP | R | 0 | 0 | 30 | 348 | 5 | S097 | | 3 |
| 21:42:10 | 0 | 10 | UNK SURF | SA | | D | C* | 084R | M | -20 | 0 | | | | | | |
| 21:42:10 | 10 | 10 | UNK SURF | FC | | | FCS | 265TP | R | 0 | 0 | 30 | 348 | 5 | S097 | | 3 |
| 21:42:25 | 0 | 10 | UNK SURF | SA | | D | C* | 083R | M | -30 | 0 | | | | | | |
| 21:42:25 | 10 | 10 | UNK SURF | FC | | | FCS | 265TP | R | 0 | 0 | 30 | 317 | 2 | S128 | | 16 |
| 21:44:41 | 0 | 10 | UNK SURF | SA | | D | C* | 092R | M | -10 | 0 | | | | | | |
| 21:44:41 | 10 | 10 | UNK SURF | FC | | | FCS | 265TP | R | 0 | 0 | 30 | 317 | 2 | S129 | | 15 |
| 21:44:56 | 0 | 10 | UNK SURF | SA | | D | C* | 092R | M | -7 | 0 | | | | | | |
| 21:45:11 | 0 | 10 | UNK SURF | SA | | D | C* | 092R | M | -6 | 0 | | | | | | |
| 21:45:11 | 10 | 10 | UNK SURF | FC | | | FCS | 272TP | R | 0 | 0 | 29 | 64 | 44 | S028 | | 1280 |
| 21:45:26 | 0 | 10 | UNK SURF | SA | | D | C* | 093R | M | -8 | 0 | | | | | | |
| 21:45:26 | 10 | 10 | UNK SURF | FC | | | FCS | 272TP | R | 0 | 0 | 29 | 63 | 42 | S030 | | 1223 |
| 21:45:41 | 0 | 10 | UNK SURF | SA | | D | C* | 092R | M | -1 | 0 | | | | | | |
| 21:45:41 | 10 | 10 | UNK SURF | FC | | | FCS | 273TP | R | 0 | 0 | 28 | 63 | 42 | S030 | | 1215 |
| 21:45:56 | 0 | 10 | UNK SURF | SA | | D | C* | 093R | M | -4 | 0 | | | | | | |
| 21:45:56 | 10 | 10 | UNK SURF | FC | | | FCS | 273TP | R | 0 | 0 | 30 | 55 | 35 | S038 | | 922 |
| 21:46:11 | 0 | 10 | UNK SURF | SA | | D | C* | 093R | M | -6 | 0 | | | | | | |
| 21:46:11 | 10 | 10 | UNK SURF | FC | | | FCS | 273TP | R | 0 | 0 | 35 | 20 | 24 | S073 | | 215 |
| 21:46:26 | 0 | 10 | UNK SURF | SA | | D | C* | 094R | M | -10 | 0 | | | | | | |

(b)(1)



Enclosure: 1

[redacted] UNCLASSIFIED SONAR LOG

09 Feb 2001 21:46:26

(b)(1)

| HULL # | SSN772 | PLATFORM: USS uss greeneville |
|---|---|---|
| SONAR SYS: | AN/BSY-1, AN/BQQ-10, , | |
| MISSION: | | |

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB P\S | RANGE RATE |
| 21:46:26 | 10 | 10 | UNK SURF | FC | | | FCS | 274TP | R | 0 | 0 | 38 | 359 | 24 | S095 | 97 |
| 21:46:41 | 0 | 10 | UNK SURF | SA | 4 | D | C* | 094R | M | -9 | 0 | | | | | |
| 21:46:41 | 10 | 10 | UNK SURF | FC | | | FCS | 274TP | R | 0 | 0 | 38 | 359 | 24 | S096 | 108 |
| 21:46:56 | 0 | 10 | UNK SURF | SA | | D | C* | 095R | M | -9 | 0 | | | | | |
| 21:46:56 | 10 | 10 | UNK SURF | FC | | | FCS | 275TP | R | 0 | 0 | 39 | 347 | 26 | S108 | 296 |
| 21:47:11 | 0 | 10 | UNK SURF | SA | | D | C* | 096R | M | -6 | 0 | | | | | |
| 21:47:11 | 10 | 10 | UNK SURF | FC | | | FCS | 275TP | R | 0 | 0 | 45 | 319 | 37 | S136 | 929 |
| 21:47:26 | 0 | 10 | UNK SURF | SA | | D | C* | 096R | M | -9 | 0 | | | | | |
| 21:47:26 | 10 | 10 | UNK SURF | FC | | | FCS | 275TP | R | 0 | 0 | 48 | 312 | 44 | S144 | 1230 |
| 21:47:41 | 0 | 10 | UNK SURF | SA | | D | C* | 096R | M | -8 | 0 | | | | | |
| 21:47:41 | 10 | 10 | UNK SURF | FC | | | FCS | 276TP | R | 0 | 0 | 48 | 312 | 44 | S144 | 1237 |
| 21:47:56 | 0 | 10 | UNK SURF | SA | | D | C* | 097R | M | -7 | 0 | | | | | |
| 21:47:56 | 10 | 10 | UNK SURF | FC | | | FCS | 276TP | R | 0 | 0 | 48 | 312 | 44 | S144 | 1240 |
| 21:48:12 | 0 | 10 | UNK SURF | SA | | D | C* | 097R | M | -3 | 0 | | | | | |
| 21:48:12 | 10 | 10 | UNK SURF | FC | | | FCS | 276TP | R | 0 | 0 | 46 | 319 | 37 | S137 | 961 |
| 21:48:26 | 0 | 10 | UNK SURF | SA | | D | C* | 097R | M | -6 | 0 | | | | | |
| 21:48:26 | 10 | 10 | UNK SURF | FC | | | FCS | 277TP | R | 0 | 0 | 46 | 319 | 37 | S138 | 967 |
| 21:48:41 | 0 | 10 | UNK SURF | SA | | D | C* | 097R | M | -6 | 0 | | | | | |
| 21:48:41 | 10 | 10 | UNK SURF | FC | | | FCS | 277TP | R | 0 | 0 | 46 | 320 | 37 | S137 | 959 |
| 21:48:56 | 0 | 10 | UNK SURF | SA | | D | C* | 097R | M | -1 | 0 | | | | | |
| 21:48:56 | 10 | 10 | UNK SURF | FC | | | FCS | 277TP | R | 0 | 0 | 51 | 313 | 45 | S145 | 1298 |
| 21:49:11 | 0 | 10 | UNK SURF | SA | | D | C* | 097R | M | 1 | 0 | | | | | |
| 21:49:11 | 0 | 11 | UNK SURF | SA | | D | D* | 296R | M | -10 | 0 | | | | | |
| 21:49:11 | 10 | 10 | UNK SURF | FC | | | FCS | 277TP | R | 0 | 0 | 72 | 303 | 99 | S155 | 2545 |
| 21:49:27 | 0 | 10 | UNK SURF | SA | | D | C* | 097R | M | -1 | 0 | | | | | |
| 21:49:27 | 0 | 11 | UNK SURF | SA | | D | D* | 294R | M | -12 | 0 | | | | | |
| 21:49:27 | 10 | 10 | UNK SURF | FC | | | FCS | 278TP | R | 0 | 0 | 73 | 303 | 99 | S155 | 2553 |
| 21:49:41 | 0 | 10 | UNK SURF | SA | | D | C* | 098R | M | -3 | 0 | | | | | |
| 21:49:41 | 0 | 11 | UNK SURF | SA | | D | D* | 295R | M | -8 | 0 | | | | | |
| 21:49:41 | 10 | 10 | UNK SURF | FC | | | FCS | 278TP | R | 0 | 0 | 139 | 297 | 59 | S160 | 1671 |

(b)(1)



Enclosure: 1

[redacted] UNCLASSIFIED SONAR LOG

09 Feb 2001 21:49:56

(b)(1)

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB P\S | RANGE | RATE |
| 21:49:56 | 0 | 10 | UNK SURF | SA | | D | C* | 098R | M | 1 | 0 | | | | | | |
| 21:49:56 | 0 | 11 | UNK SURF | SA | | D | D* | 296R | M | -15 | 0 | | | | | | |
| 21:49:56 | 10 | 10 | UNK SURF | FC | | | FCS | 278TP | R | 0 | 0 | 9 | 113 | 11 | P014 | 318 | |
| 21:50:11 | 0 | 10 | UNK SURF | SA | | D | C* | 099R | M | -6 | 0 | | | | | | |
| 21:50:11 | 0 | 11 | UNK SURF | SA | | D | D* | 296R | M | -7 | 0 | | | | | | |
| 21:50:11 | 11 | 11 | UNK SURF | FC | | | FCS | 115TP | L | 0 | 0 | 29 | 97 | 6 | P161 | 35 | |
| 21:50:11 | 10 | 10 | UNK SURF | FC | | | FCS | 278TP | R | 0 | 0 | 8 | 113 | 11 | P014 | 315 | |
| 21:50:26 | 0 | 10 | UNK SURF | SA | | D | C* | 101R | M | -3 | 0 | | | | | | |
| 21:50:26 | 0 | 11 | UNK SURF | SA | | D | D* | 296R | M | -6 | 0 | | | | | | |
| 21:50:26 | 11 | 11 | UNK SURF | FC | | | FCS | 114TP | L | 0 | 0 | 29 | 97 | 6 | P162 | 36 | |
| 21:50:26 | 10 | 10 | UNK SURF | FC | | | FCS | 279TP | R | 0 | 0 | 8 | 113 | 11 | P013 | 315 | |
| 21:50:42 | 0 | 10 | UNK SURF | SA | | D | C* | 101R | M | 2 | 0 | | | | | | |
| 21:50:42 | 0 | 11 | UNK SURF | SA | | D | D* | 295R | M | -10 | 0 | | | | | | |
| 21:50:42 | 11 | 11 | UNK SURF | FC | | | FCS | 115TP | L | 0 | 0 | 29 | 169 | 11 | S126 | 67 | |
| 21:50:42 | 10 | 10 | UNK SURF | FC | | | FCS | 279TP | R | 0 | 0 | 8 | 113 | 11 | P013 | 314 | |
| 21:50:57 | 0 | 10 | UNK SURF | SA | | D | C* | 102R | M | 1 | 0 | | | | | | |
| 21:50:57 | 0 | 11 | UNK SURF | SA | | D | D* | 296R | M | -15 | 0 | | | | | | |
| 21:50:57 | 10 | 10 | UNK SURF | FC | | | FCS | 279TP | R | 0 | 0 | 8 | 113 | 11 | P013 | 312 | |
| 21:50:57 | 11 | 11 | UNK SURF | FC | | | FCS | 115TP | R | 0 | 0 | 30 | 175 | 14 | S120 | 95 | |
| 21:51:12 | 0 | 10 | UNK SURF | SA | | D | C* | 102R | M | 1 | 0 | | | | | | |
| 21:51:12 | 0 | 11 | UNK SURF | SA | | D | D* | 296R | M | -9 | 0 | | | | | | |
| 21:51:12 | 11 | 11 | UNK SURF | FC | | | FCS | 115TP | L | 0 | 0 | 9 | 254 | 11 | S041 | 430 | |
| 21:51:12 | 10 | 10 | UNK SURF | FC | | | FCS | 280TP | R | 0 | 0 | 8 | 113 | 11 | P012 | 310 | |
| 21:51:26 | 0 | 10 | UNK SURF | SA | | D | C* | 102R | M | 0 | 0 | | | | | | |
| 21:51:26 | 0 | 11 | UNK SURF | SA | | D | D* | 295R | M | -9 | 0 | | | | | | |
| 21:51:26 | 11 | 11 | UNK SURF | FC | | | FCS | 115TP | L | 0 | 0 | 9 | 254 | 11 | S041 | 431 | |
| 21:51:26 | 10 | 10 | UNK SURF | FC | | | FCS | 280TP | R | 0 | 0 | 8 | 113 | 11 | P012 | 307 | |
| 21:51:41 | 0 | 10 | UNK SURF | SA | | D | C* | 103R | M | 2 | 0 | | | | | | |
| 21:51:41 | 0 | 11 | UNK SURF | SA | | D | D* | 296R | M | -9 | 0 | | | | | | |
| 21:51:41 | 11 | 11 | UNK SURF | FC | | | FCS | 115TP | L | 0 | 0 | 9 | 254 | 11 | S041 | 432 | |

(b)(1)



Enclosure: 1

[redacted] UNCLASSIFIED

# SONAR LOG

09 Feb 2001 21:51:41

(b)(1)

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | | | SOLUTION | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | [redacted] | | RANGE (kyd) | COURSE | SPEED | AOB P\S | RANGE RATE |
| 21:51:41 | 10 | 10 | UNK SURF | FC | ' | | FCS | 281TP | R | 0 | 0 | | 8 | 113 | 11 | P011 | 305 |
| 21:51:56 | 0 | 10 | UNK SURF | SA | 4 | D | C* | 103R | M | 1 | 0 | | | | | | |
| 21:51:56 | 0 | 11 | UNK SURF | SA | ' | D | D* | 295R | M | -16 | 0 | | | | | | |
| 21:51:56 | 11 | 11 | UNK SURF | FC | | | FCS | 115TP | L | 0 | 0 | | 9 | 254 | 11 | S041 | 430 |
| 21:51:56 | 10 | 10 | UNK SURF | FC | | | FCS | 281TP | R | 0 | 0 | | 8 | 113 | 11 | P011 | 305 |
| 21:52:12 | 0 | 10 | UNK SURF | SA | | D | C* | 103R | M | 3 | 0 | | | | | | |
| 21:52:12 | 0 | 11 | UNK SURF | SA | | D | D* | 295R | M | -14 | 0 | | | | | | |
| 21:52:12 | 11 | 11 | UNK SURF | FC | | | FCS | 115TP | L | 0 | 0 | | 8 | 244 | 10 | S052 | 362 |
| 21:52:12 | 10 | 10 | UNK SURF | FC | | | FCS | 283TP | R | 0 | 0 | | 10 | 99 | 12 | S004 | 328 |
| 21:52:27 | 0 | 10 | UNK SURF | SA | | D | C* | 103R | M | 1 | 0 | | | | | | |
| 21:52:27 | 0 | 11 | UNK SURF | SA | | D | D* | 296R | M | -15 | 0 | | | | | | |
| 21:52:27 | 11 | 11 | UNK SURF | FC | | | FCS | 115TP | L | 0 | 0 | | 7 | 244 | 10 | S052 | 363 |
| 21:52:27 | 10 | 10 | UNK SURF | FC | | | FCS | 283TP | R | 0 | 0 | | 10 | 99 | 12 | S005 | 323 |
| 21:52:41 | 0 | 10 | UNK SURF | SA | | D | C* | 104R | M | 2 | 0 | | | | | | |
| 21:52:41 | 0 | 11 | UNK SURF | SA | | D | D* | 297R | M | -12 | 0 | | | | | | |
| 21:52:41 | 11 | 11 | UNK SURF | FC | | | FCS | 115TP | L | 0 | 0 | | 7 | 244 | 10 | S052 | 363 |
| 21:52:41 | 10 | 10 | UNK SURF | FC | | | FCS | 284TP | R | 0 | 0 | | 10 | 99 | 12 | S005 | 320 |
| 21:52:56 | 0 | 10 | UNK SURF | SA | | D | C* | 104R | M | 1 | 0 | | | | | | |
| 21:52:56 | 0 | 11 | UNK SURF | SA | | D | D* | 295R | M | -11 | 0 | | | | | | |
| 21:52:56 | 11 | 11 | UNK SURF | FC | | | FCS | 115TP | L | 0 | 0 | | 7 | 244 | 10 | S052 | 364 |
| 21:52:56 | 10 | 10 | UNK SURF | FC | | | FCS | 284TP | R | 0 | 0 | | 10 | 99 | 12 | S006 | 315 |
| 21:53:11 | 0 | 10 | UNK SURF | SA | | D | C* | 104R | M | 1 | 0 | | | | | | |
| 21:53:11 | 0 | 11 | UNK SURF | SA | | D | D* | 295R | M | -11 | 0 | | | | | | |
| 21:53:11 | 11 | 11 | UNK SURF | FC | | | FCS | 115TP | L | 0 | 0 | | 7 | 244 | 10 | S052 | 365 |
| 21:53:11 | 10 | 10 | UNK SURF | FC | | | FCS | 285TP | R | 0 | 0 | | 10 | 99 | 12 | S006 | 312 |
| 21:53:27 | 0 | 10 | UNK SURF | SA | | D | C* | 104R | M | -2 | 0 | | | | | | |
| 21:53:27 | 0 | 11 | UNK SURF | SA | | D | D* | 296R | M | -12 | 0 | | | | | | |
| 21:53:27 | 11 | 11 | UNK SURF | FC | | | FCS | 115TP | L | 0 | 0 | | 7 | 244 | 10 | S052 | 365 |
| 21:53:27 | 10 | 10 | UNK SURF | FC | | | FCS | 285TP | R | 0 | 0 | | 10 | 99 | 12 | S007 | 307 |
| 21:53:42 | 0 | 10 | UNK SURF | SA | | D | C* | 105R | M | 5 | 0 | | | | | | |

(b)(1)



Enclosure: 1

[redacted] UNCLASSIFIED

# SONAR LOG

09 Feb 2001 21:53:42

(b-1)

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB | P\S | RANGE RATE |
| 21:53:42 | 0 | 11 | UNK SURF | SA | | D | D* | 296R | M | -13 | 0 | | | | | | |
| 21:53:42 | 11 | 11 | UNK SURF | FC | 4 | | FCS | 115TP | L | 0 | 0 | 7 | 244 | 10 | S051 | | 364 |
| 21:53:42 | 10 | 10 | UNK SURF | FC | | | FCS | 286TP | R | 0 | 0 | 10 | 99 | 12 | S007 | | 305 |
| 21:53:57 | 0 | 10 | UNK SURF | SA | | D | C* | 105R | M | 2 | 0 | | | | | | |
| 21:53:57 | 0 | 11 | UNK SURF | SA | | D | D* | 297R | M | -13 | 0 | | | | | | |
| 21:53:57 | 11 | 11 | UNK SURF | FC | | | FCS | 115TP | L | 0 | 0 | 7 | 244 | 10 | S051 | | 363 |
| 21:53:57 | 10 | 10 | UNK SURF | FC | | | FCS | 286TP | R | 0 | 0 | 10 | 99 | 12 | S008 | | 302 |
| 21:54:12 | 0 | 10 | UNK SURF | SA | | D | C* | 106R | M | 1 | 0 | | | | | | |
| 21:54:12 | 0 | 11 | UNK SURF | SA | | D | D* | 297R | M | -10 | 0 | | | | | | |
| 21:54:12 | 11 | 11 | UNK SURF | FC | | | FCS | 115TP | L | 0 | 0 | 7 | 244 | 10 | S051 | | 363 |
| 21:54:12 | 10 | 10 | UNK SURF | FC | | | FCS | 287TP | R | 0 | 0 | 10 | 99 | 12 | S008 | | 298 |
| 21:54:26 | 0 | 10 | UNK SURF | SA | | D | C* | 105R | M | -1 | 0 | | | | | | |
| 21:54:26 | 0 | 11 | UNK SURF | SA | | D | D* | 297R | M | -9 | 0 | | | | | | |
| 21:54:26 | 11 | 11 | UNK SURF | FC | | | FCS | 115TP | L | 0 | 0 | 7 | 244 | 10 | S051 | | 361 |
| 21:54:26 | 10 | 10 | UNK SURF | FC | | | FCS | 288TP | R | 0 | 0 | 9 | 99 | 12 | S009 | | 296 |
| 21:54:41 | 0 | 10 | UNK SURF | SA | | D | C* | 105R | M | 1 | 0 | | | | | | |
| 21:54:41 | 0 | 11 | UNK SURF | SA | | D | D* | 295R | M | -9 | 0 | | | | | | |
| 21:54:41 | 11 | 11 | UNK SURF | FC | | | FCS | 115TP | L | 0 | 0 | 7 | 244 | 10 | S051 | | 360 |
| 21:54:41 | 10 | 10 | UNK SURF | FC | | | FCS | 288TP | R | 0 | 0 | 9 | 99 | 12 | S009 | | 293 |
| 21:54:57 | 0 | 10 | UNK SURF | SA | | D | C* | 106R | M | 3 | 0 | | | | | | |
| 21:54:57 | 0 | 11 | UNK SURF | SA | | D | D* | 295R | M | -9 | 0 | | | | | | |
| 21:54:57 | 11 | 11 | UNK SURF | FC | | | FCS | 115TP | L | 0 | 0 | 7 | 244 | 10 | S051 | | 361 |
| 21:54:57 | 10 | 10 | UNK SURF | FC | | | FCS | 289TP | R | 0 | 0 | 9 | 99 | 12 | S010 | | 289 |
| 21:55:12 | 0 | 10 | UNK SURF | SA | | D | C* | 105R | M | 3 | 0 | | | | | | |
| 21:55:12 | 0 | 11 | UNK SURF | SA | | D | D* | 296R | M | -11 | 0 | | | | | | |
| 21:55:12 | 11 | 11 | UNK SURF | FC | | | FCS | 114TP | L | 0 | 0 | 6 | 244 | 10 | S051 | | 361 |
| 21:55:12 | 10 | 10 | UNK SURF | FC | | | FCS | 289TP | R | 0 | 0 | 9 | 99 | 12 | S011 | | 285 |
| 21:55:27 | 0 | 10 | UNK SURF | SA | | D | C* | 106R | M | 5 | 0 | | | | | | |
| 21:55:27 | 0 | 11 | UNK SURF | SA | | D | D* | 296R | M | -11 | 0 | | | | | | |
| 21:55:27 | 11 | 11 | UNK SURF | FC | | | FCS | 114TP | L | 0 | 0 | 6 | 244 | 10 | S051 | | 360 |

(b-1)



Enclosure: 1

[redacted] UNCLASSIFIED

# SONAR LOG

09 Feb 2001 21:55:27

(b-1)

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMENT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB | P\S | RANGE RATE |
| 21:55:27 | 10 | 10 | UNK SURF | FC | | | FCS | 290TP | R | 0 | 0 | 9 | 99 | 12 | S011 | | 281 |
| 21:55:42 | 0 | 10 | UNK SURF | SA | 4 | D | C* | 106R | M | 3 | 0 | | | | | | |
| 21:55:42 | 0 | 11 | UNK SURF | SA | * | D | D* | 297R | M | -12 | 11 | | | | | | |
| 21:55:42 | 11 | 11 | UNK SURF | FC | | | FCS | 114TP | L | 0 | 0 | 6 | 244 | 10 | S051 | | 362 |
| 21:55:42 | 10 | 10 | UNK SURF | FC | | | FCS | 290TP | R | 0 | 0 | 9 | 99 | 12 | S012 | | 275 |
| 21:55:56 | 0 | 10 | UNK SURF | SA | | D | C* | 106R | M | 4 | 0 | | | | | | |
| 21:55:56 | 0 | 11 | UNK SURF | SA | | D | D* | 297R | M | -11 | 17 | | | | | | |
| 21:55:56 | 11 | 11 | UNK SURF | FC | | | FCS | 114TP | L | 0 | 0 | 6 | 244 | 10 | S051 | | 362 |
| 21:55:56 | 10 | 10 | UNK SURF | FC | | | FCS | 291TP | R | 0 | 0 | 9 | 99 | 12 | S012 | | 270 |
| 21:56:11 | 0 | 10 | UNK SURF | SA | | D | C* | 107R | M | 4 | 0 | | | | | | |
| 21:56:11 | 0 | 11 | UNK SURF | SA | | D | D* | 296R | M | -12 | 26 | | | | | | |
| 21:56:11 | 11 | 11 | UNK SURF | FC | | | FCS | 114TP | L | 0 | 0 | 6 | 244 | 10 | S051 | | 362 |
| 21:56:11 | 10 | 10 | UNK SURF | FC | | | FCS | 292TP | R | 0 | 0 | 9 | 99 | 12 | S013 | | 267 |
| 21:56:27 | 0 | 10 | UNK SURF | SA | | D | C* | 107R | M | 3 | 0 | | | | | | |
| 21:56:27 | 0 | 11 | UNK SURF | SA | | D | D* | 295R | M | -14 | 26 | | | | | | |
| 21:56:27 | 10 | 10 | UNK SURF | FC | | | FCS | 292TP | R | 0 | 0 | 9 | 99 | 12 | S014 | | 262 |
| 21:56:27 | 11 | 11 | UNK SURF | FC | | | FCS | 117TP | R | 0 | 0 | 13 | 196 | 11 | S101 | | 87 |
| 21:56:42 | 0 | 10 | UNK SURF | SA | | D | C* | 109R | M | 4 | 0 | | | | | | |
| 21:56:42 | 0 | 11 | UNK SURF | SA | | D | D* | 295R | M | -10 | 26 | | | | | | |
| 21:56:42 | 10 | 10 | UNK SURF | FC | | | FCS | 293TP | R | 0 | 0 | 9 | 99 | 12 | S014 | | 257 |
| 21:56:42 | 11 | 11 | UNK SURF | FC | | | FCS | 117TP | R | 0 | 0 | 13 | 196 | 11 | S101 | | 87 |
| 21:56:57 | 0 | 10 | UNK SURF | SA | | D | C* | 109R | M | 4 | 0 | | | | | | |
| 21:56:57 | 0 | 11 | UNK SURF | SA | | D | D* | 294R | M | -17 | 0 | | | | | | |
| 21:56:57 | 10 | 10 | UNK SURF | FC | | | FCS | 294TP | R | 0 | 0 | 9 | 99 | 12 | S015 | | 253 |
| 21:56:57 | 11 | 11 | UNK SURF | FC | | | FCS | 117TP | R | 0 | 0 | 13 | 196 | 11 | S101 | | 87 |
| 21:57:12 | 0 | 10 | UNK SURF | SA | | D | C* | 109R | M | 2 | 0 | | | | | | |
| 21:57:12 | 0 | 11 | UNK SURF | SA | | D | D* | 292R | M | -15 | 0 | | | | | | |
| 21:57:12 | 10 | 10 | UNK SURF | FC | | | FCS | 294TP | R | 0 | 0 | 9 | 99 | 12 | S016 | | 249 |
| 21:57:12 | 11 | 11 | UNK SURF | FC | | | FCS | 117TP | R | 0 | 0 | 13 | 196 | 11 | S101 | | 86 |
| 21:57:26 | 0 | 10 | UNK SURF | SA | | D | C* | 109R | M | 1 | 0 | | | | | | |

(b-1)

[redacted] UNCLASSIFIED SONAR LOG

09 Feb 2001 21:57:26

(b-1)

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB P\S | RANGE RATE |
| 21:57:26 | 0 | 11 | UNK SURF | SA | [redacted] | D | D* | 290R | M | -21 | 0 | | | | | |
| 21:57:26 | 10 | 10 | UNK SURF | FC | 4 | | FCS | 295TP | R | 0 | 0 | 9 | 99 | 12 | S016 | 246 |
| 21:57:26 | 11 | 11 | UNK SURF | FC | • | | FCS | 117TP | R | 0 | 0 | 13 | 196 | 11 | S101 | 83 |
| 21:57:42 | 0 | 10 | UNK SURF | SA | | D | C* | 110R | M | 2 | 0 | | | | | |
| 21:57:42 | 0 | 11 | UNK SURF | SA | | D | D* | 286R | M | -19 | 0 | | | | | |
| 21:57:42 | 10 | 10 | UNK SURF | FC | | | FCS | 295TP | R | 0 | 0 | 9 | 99 | 12 | S017 | 242 |
| 21:57:42 | 11 | 11 | UNK SURF | FC | | | FCS | 117TP | R | 0 | 0 | 13 | 196 | 11 | S101 | 83 |
| 21:57:57 | 0 | 10 | UNK SURF | SA | | D | C* | 110R | M | 0 | 0 | | | | | |
| 21:57:57 | 0 | 11 | UNK SURF | SA | | D | D* | 286R | M | -15 | 0 | | | | | |
| 21:57:57 | 11 | 11 | UNK SURF | FC | | | FCS | 117TP | R | 0 | 0 | 13 | 196 | 11 | S101 | 81 |
| 21:57:57 | 10 | 10 | UNK SURF | FC | | | FCS | 296TP | R | 0 | 0 | 9 | 99 | 12 | S018 | 239 |
| 21:58:12 | 0 | 10 | UNK SURF | SA | | D | C* | 111R | M | -2 | 0 | | | | | |
| 21:58:12 | 0 | 11 | UNK SURF | SA | | D | D* | 286R | M | -30 | 0 | | | | | |
| 21:58:12 | 10 | 10 | UNK SURF | FC | | | FCS | 297TP | R | 0 | 0 | 8 | 99 | 12 | S018 | 234 |
| 21:58:12 | 11 | 11 | UNK SURF | FC | | | FCS | 117TP | R | 0 | 0 | 13 | 196 | 11 | S101 | 80 |
| 21:58:27 | 0 | 10 | UNK SURF | SA | | D | C* | 112R | M | -2 | 0 | | | | | |
| 21:58:27 | 0 | 11 | UNK SURF | SA | | D | D* | 291R | M | -30 | 0 | | | | | |
| 21:58:27 | 10 | 10 | UNK SURF | FC | | | FCS | 298TP | R | 0 | 0 | 8 | 99 | 12 | S019 | 226 |
| 21:58:27 | 11 | 11 | UNK SURF | FC | | | FCS | 117TP | R | 0 | 0 | 13 | 196 | 11 | S101 | 83 |
| 21:58:42 | 0 | 10 | UNK SURF | SA | | D | C* | 112R | M | 0 | 0 | | | | | |
| 21:58:42 | 0 | 11 | UNK SURF | SA | | D | D* | 295R | M | -15 | 0 | | | | | |
| 21:58:42 | 10 | 10 | UNK SURF | FC | | | FCS | 298TP | R | 0 | 0 | 8 | 99 | 12 | S020 | 219 |
| 21:58:42 | 11 | 11 | UNK SURF | FC | | | FCS | 117TP | R | 0 | 0 | 13 | 196 | 11 | S101 | 85 |
| 21:58:56 | 0 | 10 | UNK SURF | SA | | D | C* | 113R | M | 0 | 0 | | | | | |
| 21:58:56 | 0 | 11 | UNK SURF | SA | | D | D* | 294R | M | -17 | 0 | | | | | |
| 21:58:56 | 10 | 10 | UNK SURF | FC | | | FCS | 299TP | R | 0 | 0 | 8 | 99 | 12 | S020 | 213 |
| 21:58:56 | 11 | 11 | UNK SURF | FC | | | FCS | 117TP | R | 0 | 0 | 13 | 196 | 11 | S101 | 85 |
| 21:59:12 | 0 | 10 | UNK SURF | SA | | D | C* | 114R | M | -1 | 0 | | | | | |
| 21:59:12 | 0 | 11 | UNK SURF | SA | | D | D* | 293R | M | -30 | 0 | | | | | |
| 21:59:12 | 10 | 10 | UNK SURF | FC | | | FCS | 300TP | R | 0 | 0 | 8 | 99 | 12 | S021 | 208 |

(b-1)



Enclosure: 1

[redacted]

09 Feb 2001 21:59:12

# SONAR LOG

# UNCLASSIFIED (b-1)

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | | SOLUTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR [redacted] | | RANGE (kyd) | COURSE | SPEED | AOB | P\S | RATE |
| 21:59:12 | 11 | 11 | UNK SURF | FC | [redacted] | | FCS | 117TP | R | 0 | 0 | 13 | 196 | 11 | S101 | | 85 |
| 21:59:27 | 0 | 10 | UNK SURF | SA | 4 | D | C* | 114R | M | -1 | 0 | | | | | | |
| 21:59:27 | 0 | 11 | UNK SURF | SA | [redacted] | D | D* | 294R | M | -17 | 0 | | | | | | |
| 21:59:27 | 10 | 10 | UNK SURF | FC | | | FCS | 300TP | R | 0 | 0 | 8 | 99 | 12 | S022 | | 202 |
| 21:59:27 | 11 | 11 | UNK SURF | FC | | | FCS | 117TP | R | 0 | 0 | 13 | 196 | 11 | S101 | | 86 |
| 21:59:42 | 0 | 10 | UNK SURF | SA | | D | C* | 113R | M | 2 | 0 | | | | | | |
| 21:59:42 | 0 | 11 | UNK SURF | SA | | D | D* | 295R | M | -15 | 0 | | | | | | |
| 21:59:42 | 11 | 11 | UNK SURF | FC | | | FCS | 117TP | R | 0 | 0 | 13 | 196 | 11 | S101 | | 86 |
| 21:59:42 | 10 | 10 | UNK SURF | FC | | | FCS | 301TP | R | 0 | 0 | 8 | 99 | 12 | S023 | | 195 |
| 21:59:57 | 0 | 10 | UNK SURF | SA | | D | C* | 115R | M | -1 | 0 | | | | | | |
| 21:59:57 | 0 | 11 | UNK SURF | SA | | D | D* | 294R | M | -12 | 0 | | | | | | |
| 21:59:57 | 10 | 10 | UNK SURF | FC | | | FCS | 302TP | R | 0 | 0 | 8 | 99 | 12 | S023 | | 188 |
| 21:59:57 | 11 | 11 | UNK SURF | FC | | | FCS | 117TP | R | 0 | 0 | 13 | 196 | 11 | S101 | | 87 |
| 22:00:12 | 0 | 10 | UNK SURF | SA | | D | C* | 115R | M | -2 | 0 | | | | | | |
| 22:00:12 | 0 | 11 | UNK SURF | SA | | D | D* | 291R | M | -15 | 0 | | | | | | |
| 22:00:12 | 11 | 11 | UNK SURF | FC | | | FCS | 114TP | L | 0 | 0 | 12 | 247 | 11 | S047 | | 397 |
| 22:00:12 | 10 | 10 | UNK SURF | FC | | | FCS | 294TP | R | 0 | 0 | 7 | 167 | 4 | P052 | | 52 |
| 22:00:27 | 0 | 10 | UNK SURF | SA | | D | C* | 115R | M | 0 | 0 | | | | | | |
| 22:00:27 | 0 | 11 | UNK SURF | SA | | D | D* | 285R | M | -20 | 0 | | | | | | |
| 22:00:27 | 11 | 11 | UNK SURF | FC | | | FCS | 114TP | L | 0 | 0 | 12 | 247 | 11 | S047 | | 396 |
| 22:00:27 | 10 | 10 | UNK SURF | FC | | | FCS | 295TP | R | 0 | 0 | 7 | 167 | 4 | P052 | | 53 |
| 22:00:42 | 0 | 10 | UNK SURF | SA | | D | C* | 115R | M | 3 | 0 | | | | | | |
| 22:00:42 | 0 | 11 | UNK SURF | SA | | D | D* | 275R | M | -17 | 0 | | | | | | |
| 22:00:42 | 11 | 11 | UNK SURF | FC | | | FCS | 114TP | L | 0 | 0 | 12 | 247 | 11 | S047 | | 395 |
| 22:00:42 | 10 | 10 | UNK SURF | FC | | | FCS | 295TP | R | 0 | 0 | 7 | 167 | 4 | P051 | | 52 |
| 22:00:57 | 0 | 10 | UNK SURF | SA | | D | C* | 115R | M | 6 | 0 | | | | | | |
| 22:00:57 | 0 | 11 | UNK SURF | SA | | D | D* | 266R | M | -12 | 0 | | | | | | |
| 22:00:57 | 11 | 11 | UNK SURF | FC | | | FCS | 114TP | L | 0 | 0 | 12 | 247 | 11 | S047 | | 395 |
| 22:00:57 | 10 | 10 | UNK SURF | FC | | | FCS | 296TP | R | 0 | 0 | 7 | 167 | 4 | P051 | | 53 |
| 22:01:12 | 0 | 10 | UNK SURF | SA | | D | C* | 116R | M | 4 | 0 | | | | | | |

(b-1)



Enclosure: 1

[redacted]UNCLASSIFIED

# SONAR LOG

09 Feb 2001 22:01:12

(b-1)

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB | PBS | RATE |
| 22:01:12 | 10 | 10 | UNK SURF | FC | * | | FCS | 296TP | R | 0 | 0 | 7 | 167 | 4 | P050 | | 55 |
| 22:01:27 | 0 | 10 | UNK SURF | SA | 4 | D | C* | 116R | M | 5 | 0 | | | | | | |
| 22:01:27 | 0 | 11 | UNK SURF | SA | * | D | D* | 294R | M | -25 | 0 | | | | | | |
| 22:01:27 | 11 | 11 | UNK SURF | FC | | | FCS | 114TP | L | 0 | 0 | 12 | 247 | 11 | S047 | | 395 |
| 22:01:27 | 10 | 10 | UNK SURF | FC | | | FCS | 296TP | R | 0 | 0 | 7 | 167 | 4 | P050 | | 58 |
| 22:01:42 | 0 | 10 | UNK SURF | SA | | D | C* | 116R | M | 4 | 0 | | | | | | |
| 22:01:42 | 0 | 11 | UNK SURF | SA | | D | D* | 301R | M | -30 | 0 | | | | | | |
| 22:01:42 | 10 | 10 | UNK SURF | FC | | | FCS | 297TP | R | 0 | 0 | 7 | 167 | 4 | P050 | | 60 |
| 22:01:58 | 0 | 10 | UNK SURF | SA | | D | C* | 116R | M | 1 | 0 | | | | | | |
| 22:01:58 | 0 | 11 | UNK SURF | SA | | D | D* | 305R | M | -18 | 0 | | | | | | |
| 22:01:58 | 11 | 11 | UNK SURF | FC | | | FCS | 114TP | L | 0 | 0 | 12 | 247 | 11 | S047 | | 397 |
| 22:01:58 | 10 | 10 | UNK SURF | FC | | | FCS | 297TP | R | 0 | 0 | 7 | 167 | 4 | P049 | | 61 |
| 22:02:13 | 0 | 10 | UNK SURF | SA | | D | C* | 116R | M | 6 | 0 | | | | | | |
| 22:02:13 | 0 | 11 | UNK SURF | SA | | D | D* | 307R | M | -13 | 0 | | | | | | |
| 22:02:13 | 11 | 11 | UNK SURF | FC | | | FCS | 114TP | L | 0 | 0 | 12 | 247 | 11 | S047 | | 397 |
| 22:02:13 | 10 | 10 | UNK SURF | FC | | | FCS | 297TP | R | 0 | 0 | 7 | 167 | 4 | P049 | | 62 |
| 22:02:27 | 0 | 10 | UNK SURF | SA | | D | C* | 116R | M | 5 | 0 | | | | | | |
| 22:02:27 | 0 | 11 | UNK SURF | SA | | D | D* | 304R | M | -13 | 0 | | | | | | |
| 22:02:27 | 11 | 11 | UNK SURF | FC | | | FCS | 114TP | L | 0 | 0 | 12 | 247 | 11 | S047 | | 396 |
| 22:02:27 | 10 | 10 | UNK SURF | FC | | | FCS | 298TP | R | 0 | 0 | 7 | 167 | 4 | P049 | | 62 |
| 22:02:42 | 0 | 10 | UNK SURF | SA | | D | C* | 116R | M | 6 | 0 | | | | | | |
| 22:02:42 | 0 | 11 | UNK SURF | SA | | D | D* | 296R | M | -12 | 0 | | | | | | |
| 22:02:42 | 11 | 11 | UNK SURF | FC | | | FCS | 114TP | L | 0 | 0 | 11 | 247 | 11 | S047 | | 396 |
| 22:02:42 | 10 | 10 | UNK SURF | FC | | | FCS | 298TP | R | 0 | 0 | 7 | 167 | 4 | P048 | | 64 |
| 22:02:57 | 0 | 10 | UNK SURF | SA | | D | C* | 117R | M | 5 | 0 | | | | | | |
| 22:02:57 | 0 | 11 | UNK SURF | SA | | D | D* | 294R | M | -4 | 0 | | | | | | |
| 22:02:57 | 11 | 11 | UNK SURF | FC | | | FCS | 114TP | L | 0 | 0 | 11 | 247 | 11 | S047 | | 397 |
| 22:02:57 | 10 | 10 | UNK SURF | FC | | | FCS | 298TP | R | 0 | 0 | 7 | 167 | 4 | P048 | | 67 |
| 22:03:13 | 0 | 10 | UNK SURF | SA | | D | C* | 117R | M | 6 | 0 | | | | | | |
| 22:03:13 | 0 | 11 | UNK SURF | SA | | D | D* | 295R | M | -6 | 0 | | | | | | |

(b-1)



Enclosure: 1

[redacted] UNCLASSIFIED

# SONAR LOG

09 Feb 2001 22:03:13

(b-1)

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB | P\S | RANGE RATE |
| 22:03:13 | 11 | 11 | UNK SURF | FC | | | FCS | 114TP | L | 0 | 0 | 11 | 247 | 11 | S047 | | 397 |
| 22:03:13 | 10 | 10 | UNK SURF | FC | 4 | | FCS | 299TP | R | 0 | 0 | 7 | 167 | 4 | P048 | | 68 |
| 22:03:27 | 0 | 10 | UNK SURF | SA | | D | C* | 117R | M | 5 | 0 | | | | | | |
| 22:03:27 | 0 | 11 | UNK SURF | SA | | D | D* | 295R | M | -8 | 0 | | | | | | |
| 22:03:27 | 11 | 11 | UNK SURF | FC | | | FCS | 114TP | L | 0 | 0 | 11 | 247 | 11 | S047 | | 398 |
| 22:03:27 | 10 | 10 | UNK SURF | FC | | | FCS | 299TP | R | 0 | 0 | 7 | 167 | 4 | P047 | | 69 |
| 22:03:42 | 0 | 10 | UNK SURF | SA | | D | C* | 117R | M | 4 | 0 | | | | | | |
| 22:03:42 | 0 | 11 | UNK SURF | SA | | D | D* | 295R | M | -6 | 0 | | | | | | |
| 22:03:42 | 11 | 11 | UNK SURF | FC | | | FCS | 113TP | L | 0 | 0 | 11 | 247 | 11 | S046 | | 396 |
| 22:03:42 | 10 | 10 | UNK SURF | FC | | | FCS | 299TP | R | 0 | 0 | 7 | 167 | 4 | P047 | | 69 |
| 22:03:57 | 0 | 10 | UNK SURF | SA | | D | C* | 117R | M | 6 | 0 | | | | | | |
| 22:03:57 | 0 | 11 | UNK SURF | SA | | D | D* | 295R | M | -11 | 0 | | | | | | |
| 22:03:57 | 11 | 11 | UNK SURF | FC | | | FCS | 113TP | L | 0 | 0 | 11 | 247 | 11 | S046 | | 394 |
| 22:03:57 | 10 | 10 | UNK SURF | FC | | | FCS | 300TP | R | 0 | 0 | 7 | 167 | 4 | P047 | | 67 |
| 22:04:12 | 0 | 10 | UNK SURF | SA | | D | C* | 117R | M | 6 | 0 | | | | | | |
| 22:04:12 | 0 | 11 | UNK SURF | SA | | D | D* | 295R | M | -3 | 0 | | | | | | |
| 22:04:12 | 11 | 11 | UNK SURF | FC | | | FCS | 113TP | L | 0 | 0 | 11 | 247 | 11 | S046 | | 395 |
| 22:04:12 | 10 | 10 | UNK SURF | FC | | | FCS | 298TP | R | 0 | 0 | 4 | 184 | 7 | P065 | | 65 |
| 22:04:28 | 0 | 10 | UNK SURF | SA | | D | C* | 117R | M | 4 | 0 | | | | | | |
| 22:04:28 | 0 | 11 | UNK SURF | SA | | D | D* | 295R | M | -8 | 0 | | | | | | |
| 22:04:28 | 11 | 11 | UNK SURF | FC | | | FCS | 113TP | L | 0 | 0 | 11 | 247 | 11 | S046 | | 395 |
| 22:04:28 | 10 | 10 | UNK SURF | FC | | | FCS | 298TP | R | 0 | 0 | 4 | 184 | 7 | P065 | | 65 |
| 22:04:43 | 0 | 10 | UNK SURF | SA | | D | C* | 117R | M | 5 | 0 | | | | | | |
| 22:04:43 | 0 | 11 | UNK SURF | SA | | D | D* | 294R | M | -13 | 0 | | | | | | |
| 22:04:43 | 11 | 11 | UNK SURF | FC | | | FCS | 115TP | L | 0 | 0 | 6 | 240 | 11 | S055 | | 353 |
| 22:04:43 | 10 | 10 | UNK SURF | FC | | | FCS | 297TP | R | 0 | 0 | 4 | 188 | 8 | P070 | | 62 |
| 22:04:58 | 0 | 10 | UNK SURF | SA | | D | C* | 118R | M | 4 | 0 | | | | | | |
| 22:04:58 | 0 | 11 | UNK SURF | SA | | D | D* | 295R | M | -12 | 0 | | | | | | |
| 22:04:58 | 11 | 11 | UNK SURF | FC | | | FCS | 115TP | L | 0 | 0 | 6 | 240 | 11 | S055 | | 354 |
| 22:04:58 | 10 | 10 | UNK SURF | FC | | | FCS | 297TP | R | 0 | 0 | 4 | 188 | 8 | P070 | | 63 |

(b-1)



Enclosure: 1

[redacted] UNCLASSIFIED

# SONAR LOG

09 Feb 2001 22:05:12

(b-2)

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB | P\S | RANGE RATE |
| 22:05:12 | 0 | 10 | UNK SURF | SA | | D | C* | 118R | M | 2 | 0 | | | | | | |
| 22:05:12 | 0 | 11 | UNK SURF | SA | | D | D* | 294R | M | -11 | 0 | | | | | | |
| 22:05:12 | 11 | 11 | UNK SURF | FC | | | FCS | 115TP | L | 0 | 0 | 5 | 240 | 11 | S055 | | 356 |
| 22:05:12 | 10 | 10 | UNK SURF | FC | | | FCS | 297TP | R | 0 | 0 | 4 | 188 | 8 | P070 | | 64 |
| 22:05:27 | 0 | 10 | UNK SURF | SA | | D | C* | 120R | M | 3 | 0 | | | | | | |
| 22:05:27 | 0 | 11 | UNK SURF | SA | | D | D* | 295R | M | -10 | 0 | | | | | | |
| 22:05:27 | 11 | 11 | UNK SURF | FC | | | FCS | 115TP | M | 0 | 0 | 5 | 240 | 11 | S055 | | 357 |
| 22:05:27 | 10 | 10 | UNK SURF | FC | | | FCS | 297TP | R | 0 | 0 | 4 | 188 | 8 | P070 | | 65 |
| 22:05:42 | 0 | 10 | UNK SURF | SA | | D | C* | 121R | M | 3 | 0 | | | | | | |
| 22:05:42 | 0 | 11 | UNK SURF | SA | | D | D* | 296R | M | -6 | 0 | | | | | | |
| 22:05:42 | 11 | 11 | UNK SURF | FC | | | FCS | 115TP | M | 0 | 0 | 5 | 240 | 11 | S055 | | 359 |
| 22:05:42 | 10 | 10 | UNK SURF | FC | | | FCS | 297TP | R | 0 | 0 | 4 | 188 | 8 | P070 | | 67 |
| 22:05:58 | 0 | 10 | UNK SURF | SA | | D | C* | 126R | M | 0 | 0 | | | | | | |
| 22:05:58 | 0 | 11 | UNK SURF | SA | | D | D* | 303R | M | -7 | 0 | | | | | | |
| 22:05:58 | 10 | 10 | UNK SURF | FC | | | FCS | 297TP | R | 0 | 0 | 4 | 188 | 8 | P070 | | 98 |
| 22:05:58 | 11 | 11 | UNK SURF | FC | | | FCS | 115TP | R | 0 | 0 | 5 | 240 | 11 | S056 | | 390 |
| 22:06:13 | 0 | 11 | UNK SURF | SA | | D | D* | 317R | M | -4 | 0 | | | | | | |
| 22:06:13 | 11 | 11 | UNK SURF | FC | | | FCS | 115TP | R | 0 | 0 | 5 | 240 | 11 | S056 | | 441 |
| 22:06:27 | 0 | 11 | UNK SURF | SA | | D | D* | 333R | M | -8 | 0 | | | | | | |
| 22:06:27 | 11 | 11 | UNK SURF | FC | | | FCS | 116TP | R | 0 | 0 | 5 | 240 | 11 | S056 | | 483 |
| 22:06:42 | 0 | 11 | UNK SURF | SA | | D | D* | 350R | M | -7 | 0 | | | | | | |
| 22:06:42 | 11 | 11 | UNK SURF | FC | | | FCS | 116TP | R | 0 | 0 | 5 | 240 | 11 | S057 | | 494 |
| 22:06:57 | 0 | 11 | UNK SURF | SA | | D | D* | 004R | M | -2 | 0 | | | | | | |
| 22:06:57 | 11 | 11 | UNK SURF | FC | | | FCS | 117TP | R | 0 | 0 | 5 | 240 | 11 | S057 | | 486 |
| 22:07:12 | 0 | 11 | UNK SURF | SA | | D | D* | 019R | M | -6 | 0 | | | | | | |
| 22:07:12 | 11 | 11 | UNK SURF | FC | | | FCS | 118TP | R | 0 | 0 | 5 | 240 | 11 | S058 | | 454 |
| 22:07:28 | 0 | 11 | UNK SURF | SA | | D | D* | 034R | M | -6 | 0 | | | | | | |
| 22:07:28 | 11 | 11 | UNK SURF | FC | | | FCS | 119TP | R | 0 | 0 | 4 | 240 | 11 | S060 | | 407 |
| 22:07:43 | 0 | 11 | UNK SURF | SA | | D | D* | 048R | M | -5 | 0 | | | | | | |
| 22:07:43 | 11 | 11 | UNK SURF | FC | | | FCS | 121TP | R | 0 | 0 | 4 | 240 | 11 | S061 | | 347 |

(b-1)



Enclosure: 1

[redacted] UNCLASSIFIED

# SONAR LOG

09 Feb 2001 22:07:58

(b-1)

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB | P\S | RANGE RATE |
| 22:07:58 | 0 | 10 | UNK SURF | SA | | D | C* | 241R | M | -4 | 0 | | | | | | |
| 22:07:58 | 0 | 11 | UNK SURF | SA | 4 | D | D* | 062R | M | -2 | 0 | | | | | | |
| 22:07:58 | 10 | 10 | UNK SURF | FC | • | | FCS | 297TP | L | 0 | 0 | 4 | 188 | 8 | P070 | | 136 |
| 22:07:58 | 11 | 11 | UNK SURF | FC | | | FCS | 122TP | R | 0 | 0 | 4 | 240 | 11 | S063 | | 276 |
| 22:08:12 | 0 | 10 | UNK SURF | SA | | D | C* | 254R | M | -5 | 0 | | | | | | |
| 22:08:12 | 0 | 11 | UNK SURF | SA | | D | D* | 077R | M | -5 | 0 | | | | | | |
| 22:08:12 | 11 | 11 | UNK SURF | FC | | | FCS | 124TP | R | 0 | 0 | 4 | 240 | 11 | S064 | | 200 |
| 22:08:27 | 0 | 10 | UNK SURF | SA | | D | C* | 268R | M | -1 | 0 | | | | | | |
| 22:08:27 | 0 | 11 | UNK SURF | SA | | D | D* | 091R | M | -4 | 0 | | | | | | |
| 22:08:27 | 10 | 10 | UNK SURF | FC | | | FCS | 288TP | L | 0 | 0 | 5 | 188 | 8 | P079 | | |
| 22:08:27 | 11 | 11 | UNK SURF | FC | | | FCS | 126TP | R | 0 | 0 | 4 | 240 | 11 | S066 | | 121 |
| 22:08:43 | 0 | 10 | UNK SURF | SA | | D | C* | 281R | M | -2 | 0 | | | | | | |
| 22:08:43 | 0 | 11 | UNK SURF | SA | | D | D* | 105R | M | -8 | 0 | | | | | | |
| 22:08:43 | 10 | 10 | UNK SURF | FC | | | FCS | 287TP | L | 0 | 0 | 5 | 188 | 8 | P080 | | 45 |
| 22:08:43 | 11 | 11 | UNK SURF | FC | | | FCS | 128TP | R | 0 | 0 | 4 | 240 | 11 | S068 | | 45 |
| 22:08:58 | 0 | 10 | UNK SURF | SA | | D | C* | 289R | M | -2 | 0 | | | | | | |
| 22:08:58 | 0 | 11 | UNK SURF | SA | | D | D* | 114R | M | -9 | 0 | | | | | | |
| 22:08:58 | 10 | 10 | UNK SURF | FC | | | FCS | 285TP | L | 0 | 0 | 5 | 188 | 8 | P082 | | 69 |
| 22:08:58 | 11 | 11 | UNK SURF | FC | | | FCS | 129TP | R | 0 | 0 | 4 | 240 | 11 | S070 | | 6 |
| 22:09:13 | 0 | 10 | UNK SURF | SA | | D | C* | 293R | M | -1 | 0 | | | | | | |
| 22:09:13 | 0 | 11 | UNK SURF | SA | | D | D* | 118R | M | -8 | 0 | | | | | | |
| 22:09:13 | 10 | 10 | UNK SURF | FC | | | FCS | 284TP | L | 0 | 0 | 5 | 188 | 8 | P083 | | 75 |
| 22:09:13 | 11 | 11 | UNK SURF | FC | | | FCS | 131TP | R | 0 | 0 | 4 | 240 | 11 | S071 | | 43 |
| 22:09:28 | 0 | 10 | UNK SURF | SA | | D | C* | 295R | M | 0 | 0 | | | | | | |
| 22:09:28 | 0 | 11 | UNK SURF | SA | | D | D* | 122R | M | -30 | 0 | | | | | | |
| 22:09:28 | 10 | 10 | UNK SURF | FC | | | FCS | 282TP | L | 0 | 0 | 4 | 188 | 8 | P085 | | 73 |
| 22:09:28 | 11 | 11 | UNK SURF | FC | | | FCS | 133TP | R | 0 | 0 | 4 | 240 | 11 | S073 | | 73 |
| 22:09:42 | 0 | 10 | UNK SURF | SA | | D | C* | 296R | M | -2 | 0 | | | | | | |
| 22:09:42 | 0 | 11 | UNK SURF | SA | | D | D* | 123R | M | -13 | 0 | | | | | | |
| 22:09:42 | 10 | 10 | UNK SURF | FC | | | FCS | 281TP | L | 0 | 0 | 4 | 188 | 8 | P086 | | 64 |

(b-1)



Enclosure: 1

[redacted] UNCLASSIFIED

# SONAR LOG

09 Feb 2001 22:09:42

(b-1)

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB | P\S | RANGE RATE |
| 22:09:42 | 11 | 11 | UNK SURF | FC | | | FCS | 135TP | R | 0 | 0 | 4 | 240 | 11 | S075 | | 101 |
| 22:09:57 | 0 | 10 | UNK SURF | SA | 4 | D | C* | 296R | M | 3 | 0 | | | | | | |
| 22:09:57 | 0 | 11 | UNK SURF | SA | | D | D* | 123R | M | -9 | 0 | | | | | | |
| 22:09:57 | 10 | 10 | UNK SURF | FC | | | FCS | 279TP | L | 0 | 0 | 4 | 188 | 8 | P088 | | 49 |
| 22:09:57 | 11 | 11 | UNK SURF | FC | | | FCS | 136TP | R | 0 | 0 | 4 | 240 | 11 | S077 | | 121 |
| 22:10:13 | 0 | 10 | UNK SURF | SA | | D | C* | 296R | M | 4 | 0 | | | | | | |
| 22:10:13 | 10 | 10 | UNK SURF | FC | | | FCS | 277TP | L | 0 | 0 | 4 | 188 | 8 | P090 | | 34 |
| 22:10:28 | 0 | 10 | UNK SURF | SA | | D | C* | 296R | M | 3 | 0 | | | | | | |
| 22:10:28 | 10 | 10 | UNK SURF | FC | | | FCS | 276TP | L | 0 | 0 | 4 | 188 | 8 | P091 | | 18 |
| 22:10:43 | 0 | 10 | UNK SURF | SA | | D | C* | 296R | M | 4 | 0 | | | | | | |
| 22:10:43 | 10 | 10 | UNK SURF | FC | | | FCS | 274TP | L | 0 | 0 | 4 | 188 | 8 | P093 | | 1 |
| 22:10:58 | 0 | 10 | UNK SURF | SA | | D | C* | 296R | M | 2 | 0 | | | | | | |
| 22:10:58 | 10 | 10 | UNK SURF | FC | | | FCS | 272TP | L | 0 | 0 | 4 | 188 | 8 | P095 | | 14 |
| 22:11:12 | 0 | 10 | UNK SURF | SA | | D | C* | 295R | M | 4 | 0 | | | | | | |
| 22:11:12 | 10 | 10 | UNK SURF | FC | | | FCS | 270TP | L | 0 | 0 | 4 | 188 | 8 | P096 | | 32 |
| 22:11:28 | 0 | 10 | UNK SURF | SA | | D | C* | 294R | M | 4 | 0 | | | | | | |
| 22:11:28 | 10 | 10 | UNK SURF | FC | | | FCS | 269TP | L | 0 | 0 | 4 | 188 | 8 | P098 | | 50 |
| 22:11:43 | 0 | 10 | UNK SURF | SA | | D | C* | 293R | M | 2 | 0 | | | | | | |
| 22:11:43 | 10 | 10 | UNK SURF | FC | | | FCS | 267TP | L | 0 | 0 | 4 | 188 | 8 | P100 | | 68 |
| 22:11:58 | 0 | 10 | UNK SURF | SA | | D | C* | 292R | M | 2 | 0 | | | | | | |
| 22:11:58 | 10 | 10 | UNK SURF | FC | | | FCS | 265TP | L | 0 | 0 | 4 | 188 | 8 | P102 | | 86 |
| 22:12:13 | 0 | 10 | UNK SURF | SA | | D | C* | 291R | M | 3 | 0 | | | | | | |
| 22:12:13 | 10 | 10 | UNK SURF | FC | | | FCS | 264TP | L | 0 | 0 | 5 | 188 | 8 | P103 | | 104 |
| 22:12:27 | 0 | 10 | UNK SURF | SA | | D | C* | 290R | M | 3 | 0 | | | | | | |
| 22:12:27 | 10 | 10 | UNK SURF | FC | | | FCS | 262TP | L | 0 | 0 | 5 | 188 | 8 | P105 | | 121 |
| 22:12:42 | 0 | 10 | UNK SURF | SA | | D | C* | 290R | M | 4 | 0 | | | | | | |
| 22:12:42 | 10 | 10 | UNK SURF | FC | | | FCS | 260TP | L | 0 | 0 | 5 | 188 | 8 | P107 | | 139 |
| 22:12:58 | 0 | 10 | UNK SURF | SA | | D | C* | 288R | M | 4 | 0 | | | | | | |
| 22:12:58 | 10 | 10 | UNK SURF | FC | | | FCS | 259TP | L | 0 | 0 | 5 | 188 | 8 | P108 | | 157 |
| 22:13:13 | 0 | 10 | UNK SURF | SA | | D | C* | 288R | M | 5 | 0 | | | | | | |

(b-1)



Enclosure: 1

[redacted] UNCLASSIFIED

# SONAR LOG

09 Feb 2001 22:13:13

(b-1)

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB | P\S | RANGE RATE |
| 22:13:13 | 10 | 10 | UNK SURF | FC | | | FCS | 257TP | L | 0 | 0 | 5 | 188 | 8 | P110 | | 171 |
| 22:13:28 | 0 | 10 | UNK SURF | SA | 4 | D | C* | 288R | M | 2 | 0 | | | | | | |
| 22:13:28 | 10 | 10 | UNK SURF | FC | | | FCS | 255TP | L | 0 | 0 | 5 | 188 | 8 | P112 | | 187 |
| 22:13:43 | 0 | 10 | UNK SURF | SA | | D | C* | 287R | M | 6 | 0 | | | | | | |
| 22:13:43 | 10 | 10 | UNK SURF | FC | | | FCS | 254TP | L | 0 | 0 | 5 | 188 | 8 | P113 | | 205 |
| 22:13:58 | 0 | 10 | UNK SURF | SA | | D | C* | 286R | M | 6 | 0 | | | | | | |
| 22:13:58 | 10 | 10 | UNK SURF | FC | | | FCS | 252TP | L | 0 | 0 | 5 | 188 | 8 | P115 | | 223 |
| 22:14:12 | 0 | 10 | UNK SURF | SA | | D | C* | 285R | M | 6 | 0 | | | | | | |
| 22:14:12 | 10 | 10 | UNK SURF | FC | | | FCS | 251TP | L | 0 | 0 | 5 | 188 | 8 | P116 | | 238 |
| 22:14:28 | 0 | 10 | UNK SURF | SA | | D | C* | 284R | M | 7 | 0 | | | | | | |
| 22:14:28 | 10 | 10 | UNK SURF | FC | | | FCS | 249TP | L | 0 | 0 | 5 | 188 | 8 | P118 | | 254 |
| 22:14:43 | 0 | 10 | UNK SURF | SA | | D | C* | 283R | M | 4 | 0 | | | | | | |
| 22:14:43 | 10 | 10 | UNK SURF | FC | | | FCS | 248TP | L | 0 | 0 | 5 | 188 | 8 | P119 | | 270 |
| 22:14:58 | 0 | 10 | UNK SURF | SA | | D | C* | 282R | M | 5 | 0 | | | | | | |
| 22:14:58 | 10 | 10 | UNK SURF | FC | | | FCS | 246TP | L | 0 | 0 | 5 | 188 | 8 | P121 | | 284 |
| 22:15:13 | 0 | 10 | UNK SURF | SA | | D | C* | 281R | M | 5 | 0 | | | | | | |
| 22:15:13 | 10 | 10 | UNK SURF | FC | | | FCS | 245TP | L | 0 | 0 | 5 | 188 | 8 | P122 | | 297 |
| 22:15:28 | 0 | 10 | UNK SURF | SA | | D | C* | 280R | M | 4 | 0 | | | | | | |
| 22:15:28 | 10 | 10 | UNK SURF | FC | | | FCS | 243TP | L | 0 | 0 | 5 | 188 | 8 | P123 | | 312 |
| 22:15:43 | 0 | 10 | UNK SURF | SA | | D | C* | 279R | M | 3 | 0 | | | | | | |
| 22:15:43 | 10 | 10 | UNK SURF | FC | | | FCS | 242TP | L | 0 | 0 | 5 | 188 | 8 | P125 | | 327 |
| 22:15:58 | 0 | 10 | UNK SURF | SA | | D | C* | 278R | M | 4 | 0 | | | | | | |
| 22:15:58 | 10 | 10 | UNK SURF | FC | | | FCS | 241TP | L | 0 | 0 | 5 | 188 | 8 | P126 | | 339 |
| 22:16:13 | 0 | 10 | UNK SURF | SA | | D | C* | 277R | M | 3 | 0 | | | | | | |
| 22:16:13 | 10 | 10 | UNK SURF | FC | | | FCS | 240TP | L | 0 | 0 | 5 | 188 | 8 | P127 | | 350 |
| 22:16:28 | 0 | 10 | UNK SURF | SA | | D | C* | 276R | M | 3 | 0 | | | | | | |
| 22:16:28 | 10 | 10 | UNK SURF | FC | | | FCS | 276TP | L | 0 | 0 | 7 | 126 | 13 | P029 | | 409 |
| 22:16:43 | 0 | 10 | UNK SURF | SA | | D | C* | 276R | M | 2 | 0 | | | | | | |
| 22:16:43 | 10 | 10 | UNK SURF | FC | | | FCS | 275TP | L | 0 | 0 | 7 | 126 | 13 | P030 | | 399 |
| 22:16:59 | 0 | 10 | UNK SURF | SA | | D | C* | 274R | M | 3 | 0 | | | | | | |

(b-1)



Enclosure: 1

[redacted] UNCLASSIFIED

# SONAR LOG

09 Feb 2001 22:16:59

(b-1)

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB P\S | RANGE RATE |
| 22:16:59 | 10 | 10 | UNK SURF | FC | [redacted] | | FCS | 274TP | L | 0 | 0 | 7 | 126 | 13 | P031 | 387 |
| 22:17:13 | 0 | 10 | UNK SURF | SA | 4 | D | C* | 273R | M | 1 | 0 | | | | | |
| 22:17:13 | 10 | 10 | UNK SURF | FC | [redacted] | | FCS | 272TP | L | 0 | 0 | 7 | 126 | 13 | P032 | 373 |
| 22:17:28 | 0 | 10 | UNK SURF | SA | | D | C* | 271R | M | 2 | 0 | | | | | |
| 22:17:28 | 10 | 10 | UNK SURF | FC | | | FCS | 271TP | L | 0 | 0 | 6 | 126 | 13 | P033 | 360 |
| 22:17:43 | 0 | 10 | UNK SURF | SA | | D | C* | 270R | M | 3 | 0 | | | | | |
| 22:17:43 | 10 | 10 | UNK SURF | FC | | | FCS | 270TP | L | 0 | 0 | 6 | 126 | 13 | P034 | 349 |
| 22:17:58 | 0 | 10 | UNK SURF | SA | | D | C* | 269R | M | 3 | 0 | | | | | |
| 22:17:58 | 10 | 10 | UNK SURF | FC | | | FCS | 269TP | L | 0 | 0 | 6 | 126 | 13 | P036 | 338 |
| 22:18:13 | 0 | 10 | UNK SURF | SA | | D | C* | 268R | M | 4 | 0 | | | | | |
| 22:18:13 | 10 | 10 | UNK SURF | FC | | | FCS | 267TP | L | 0 | 0 | 6 | 126 | 13 | P037 | 327 |
| 22:18:28 | 0 | 10 | UNK SURF | SA | | D | C* | 267R | M | 3 | 0 | | | | | |
| 22:18:28 | 10 | 10 | UNK SURF | FC | | | FCS | 266TP | L | 0 | 0 | 6 | 126 | 13 | P038 | 312 |
| 22:18:43 | 0 | 10 | UNK SURF | SA | | D | C* | 265R | M | 1 | 0 | | | | | |
| 22:18:43 | 10 | 10 | UNK SURF | FC | | | FCS | 265TP | L | 0 | 0 | 6 | 126 | 13 | P040 | 294 |
| 22:18:58 | 0 | 10 | UNK SURF | SA | | D | C* | 265R | M | 1 | 0 | | | | | |
| 22:18:58 | 10 | 10 | UNK SURF | FC | | | FCS | 264TP | L | 0 | 0 | 6 | 126 | 13 | P041 | 280 |
| 22:19:13 | 0 | 10 | UNK SURF | SA | | D | C* | 264R | M | 4 | 0 | | | | | |
| 22:19:13 | 10 | 10 | UNK SURF | FC | | | FCS | 262TP | L | 0 | 0 | 6 | 126 | 13 | P043 | 265 |
| 22:19:28 | 0 | 10 | UNK SURF | SA | | D | C* | 263R | M | 2 | 0 | | | | | |
| 22:19:28 | 10 | 10 | UNK SURF | FC | | | FCS | 261TP | L | 0 | 0 | 6 | 126 | 13 | P044 | 253 |
| 22:19:44 | 0 | 10 | UNK SURF | SA | | D | C* | 263R | M | 3 | 0 | | | | | |
| 22:19:44 | 10 | 10 | UNK SURF | FC | | | FCS | 259TP | L | 0 | 0 | 6 | 126 | 13 | P045 | 235 |
| 22:19:58 | 0 | 10 | UNK SURF | SA | | D | C* | 261R | M | 4 | 0 | | | | | |
| 22:19:58 | 10 | 10 | UNK SURF | FC | | | FCS | 258TP | L | 0 | 0 | 6 | 126 | 13 | P047 | 218 |
| 22:20:13 | 0 | 10 | UNK SURF | SA | | D | C* | 261R | M | 3 | 0 | | | | | |
| 22:20:13 | 10 | 10 | UNK SURF | FC | | | FCS | 256TP | L | 0 | 0 | 6 | 126 | 13 | P048 | 201 |
| 22:20:28 | 0 | 10 | UNK SURF | SA | | D | C* | 259R | M | 5 | 0 | | | | | |
| 22:20:28 | 10 | 10 | UNK SURF | FC | | | FCS | 255TP | L | 0 | 0 | 6 | 126 | 13 | P050 | 182 |
| 22:20:43 | 0 | 10 | UNK SURF | SA | | D | C* | 258R | M | 5 | 0 | | | | | |

(b-1)



Enclosure: 1

[redacted] UNCLASSIFIED

# SONAR LOG

09 Feb 2001 22:20:43

(b-7)

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB P\S | RANGE RATE |
| 22:20:43 | 10 | 10 | UNK SURF | FC | * | | FCS | 253TP | L | 0 | 0 | 6 | 126 | 13 | P051 | 165 |
| 22:20:58 | 0 | 10 | UNK SURF | SA | 4 | D | C* | 257R | M | 4 | 0 | | | | | |
| 22:20:58 | 10 | 10 | UNK SURF | FC | * | | FCS | 251TP | L | 0 | 0 | 6 | 126 | 13 | P053 | 144 |
| 22:21:14 | 0 | 10 | UNK SURF | SA | | D | C* | 256R | M | 6 | 0 | | | | | |
| 22:21:14 | 10 | 10 | UNK SURF | FC | | | FCS | 250TP | L | 0 | 0 | 5 | 126 | 13 | P055 | 125 |
| 22:21:29 | 0 | 10 | UNK SURF | SA | | D | C* | 257R | M | 0 | 0 | | | | | |
| 22:21:29 | 10 | 10 | UNK SURF | FC | | | FCS | 248TP | L | 0 | 0 | 5 | 126 | 13 | P056 | 106 |
| 22:21:44 | 0 | 110 | UNK SURF | SA | | D | C* | 255R | M | 2 | 0 | | | | | |
| 22:21:44 | 10 | 110 | UNK SURF | FC | | | FCS | 247TP | L | 0 | 0 | 5 | 126 | 13 | P058 | 87 |
| 22:21:58 | 0 | 110 | UNK SURF | SA | | D | C* | 254R | M | 1 | 0 | | | | | |
| 22:21:58 | 10 | 110 | UNK SURF | FC | | | FCS | 253TP | L | 0 | 0 | 10 | 176 | 12 | P102 | 184 |
| 22:22:13 | 0 | 110 | UNK SURF | SA | | D | C* | 253R | M | 1 | 0 | | | | | |
| 22:22:13 | 10 | 110 | UNK SURF | FC | | | FCS | 252TP | L | 0 | 0 | 10 | 176 | 12 | P102 | 196 |
| 22:22:28 | 0 | 110 | UNK SURF | SA | | D | C* | 254R | M | -2 | 0 | | | | | |
| 22:22:28 | 10 | 110 | UNK SURF | FC | | | FCS | 251TP | L | 0 | 0 | 10 | 176 | 12 | P103 | 209 |
| 22:22:44 | 0 | 110 | UNK SURF | SA | | D | C* | 253R | M | -4 | 0 | | | | | |
| 22:22:44 | 10 | 110 | UNK SURF | FC | | | FCS | 250TP | L | 0 | 0 | 10 | 176 | 12 | P104 | 221 |
| 22:22:59 | 0 | 110 | UNK SURF | SA | | D | C* | 253R | M | -4 | 0 | | | | | |
| 22:22:59 | 10 | 110 | UNK SURF | FC | | | FCS | 249TP | L | 0 | 0 | 11 | 176 | 12 | P105 | 233 |
| 22:23:14 | 0 | 110 | UNK SURF | SA | | D | C* | 251R | M | -5 | 0 | | | | | |
| 22:23:14 | 10 | 110 | UNK SURF | FC | | | FCS | 248TP | L | 0 | 0 | 11 | 176 | 12 | P106 | 245 |
| 22:23:28 | 0 | 110 | UNK SURF | SA | | D | C* | 253R | M | -2 | 0 | | | | | |
| 22:23:28 | 10 | 110 | UNK SURF | FC | | | FCS | 248TP | L | 0 | 0 | 11 | 176 | 12 | P107 | 255 |
| 22:23:43 | 0 | 110 | UNK SURF | SA | | D | C* | 252R | M | -3 | 0 | | | | | |
| 22:23:43 | 10 | 110 | UNK SURF | FC | | | FCS | 247TP | L | 0 | 0 | 11 | 176 | 12 | P108 | 266 |
| 22:23:58 | 0 | 110 | UNK SURF | SA | | D | C* | 250R | M | -5 | 0 | | | | | |
| 22:23:58 | 10 | 110 | UNK SURF | FC | | | FCS | 246TP | L | 0 | 0 | 11 | 176 | 12 | P109 | 277 |
| 22:24:14 | 0 | 110 | UNK SURF | SA | | D | C* | 248R | M | -7 | 0 | | | | | |
| 22:24:14 | 10 | 110 | UNK SURF | FC | | | FCS | 245TP | L | 0 | 0 | 11 | 176 | 12 | P110 | 287 |
| 22:24:29 | 0 | 110 | UNK SURF | SA | | D | C* | 251R | M | -6 | 0 | | | | | |

(b-1)

[redacted] UNCLASSIFIED SONAR LOG

09 Feb 2001 22:24:29

(b-1)

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB PS | RANGE RATE | |
| 22:24:29 | 10 | 110 | UNK SURF | FC | | | FCS | 244TP | L | 0 | 0 | 11 | 176 | 12 | P111 | 297 | |
| 22:24:44 | 0 | 110 | UNK SURF | SA | 4 | D | C* | 250R | M | -4 | 0 | | | | | | |
| 22:24:44 | 10 | 110 | UNK SURF | FC | | | FCS | 243TP | L | 0 | 0 | 11 | 176 | 12 | P112 | 309 | |
| 22:24:58 | 0 | 110 | UNK SURF | SA | | D | C* | 248R | M | -4 | 0 | | | | | | |
| 22:24:58 | 10 | 110 | UNK SURF | FC | | | FCS | 242TP | L | 0 | 0 | 11 | 176 | 12 | P112 | 322 | |
| 22:25:13 | 0 | 110 | UNK SURF | SA | | D | C* | 247R | M | -1 | 0 | | | | | | |
| 22:25:13 | 10 | 110 | UNK SURF | FC | | | FCS | 241TP | L | 0 | 0 | 11 | 176 | 12 | P113 | 331 | |
| 22:25:28 | 0 | 110 | UNK SURF | SA | | D | C* | 247R | M | -1 | 0 | | | | | | |
| 22:25:28 | 10 | 110 | UNK SURF | FC | | | FCS | 241TP | L | 0 | 0 | 11 | 176 | 12 | P114 | 339 | |
| 22:25:44 | 0 | 110 | UNK SURF | SA | | D | C* | 246R | M | -4 | 0 | | | | | | |
| 22:25:44 | 10 | 110 | UNK SURF | FC | | | FCS | 240TP | L | 0 | 0 | 11 | 176 | 12 | P115 | 347 | |
| 22:25:59 | 0 | 110 | UNK SURF | SA | | D | C* | 243R | M | -5 | 0 | | | | | | |
| 22:25:59 | 10 | 110 | UNK SURF | FC | | | FCS | 239TP | L | 0 | 0 | 11 | 176 | 12 | P116 | 355 | |
| 22:26:14 | 0 | 110 | UNK SURF | SA | | D | C* | 241R | M | -5 | 0 | | | | | | |
| 22:26:14 | 10 | 110 | UNK SURF | FC | | | FCS | 238TP | L | 0 | 0 | 12 | 176 | 12 | P116 | 363 | |
| 22:26:29 | 0 | 110 | UNK SURF | SA | | D | C* | 242R | M | -6 | 0 | | | | | | |
| 22:26:29 | 10 | 110 | UNK SURF | FC | | | FCS | 237TP | L | 0 | 0 | 12 | 176 | 12 | P117 | 373 | |
| 22:26:44 | 0 | 110 | UNK SURF | SA | | D | C* | 241R | M | -6 | 0 | | | | | | |
| 22:26:44 | 10 | 110 | UNK SURF | FC | | | FCS | 237TP | L | 0 | 0 | 12 | 176 | 12 | P118 | 382 | |
| 22:26:58 | 0 | 110 | UNK SURF | SA | | D | C* | 239R | M | -7 | 0 | | | | | | |
| 22:26:58 | 10 | 110 | UNK SURF | FC | | | FCS | 236TP | L | 0 | 0 | 12 | 176 | 12 | P119 | 390 | |
| 22:27:14 | 0 | 110 | UNK SURF | SA | | D | C* | 245R | M | -7 | 0 | | | | | | |
| 22:27:14 | 10 | 110 | UNK SURF | FC | | | FCS | 235TP | L | 0 | 0 | 12 | 176 | 12 | P119 | 399 | |
| 22:27:29 | 0 | 110 | UNK SURF | SA | | D | C* | 243R | M | -6 | 0 | | | | | | |
| 22:27:29 | 10 | 110 | UNK SURF | FC | | | FCS | 235TP | L | 0 | 0 | 12 | 176 | 12 | P120 | 407 | |
| 22:27:44 | 0 | 110 | UNK SURF | SA | | D | C* | 242R | M | -5 | 0 | | | | | | |
| 22:27:44 | 10 | 110 | UNK SURF | FC | | | FCS | 234TP | L | 0 | 0 | 12 | 176 | 12 | P121 | 414 | |
| 22:27:59 | 0 | 110 | UNK SURF | SA | | D | C* | 243R | M | -5 | 0 | | | | | | |
| 22:27:59 | 10 | 110 | UNK SURF | FC | | | FCS | 233TP | L | 0 | 0 | 12 | 176 | 12 | P122 | 425 | |
| 22:28:14 | 0 | 110 | UNK SURF | SA | | D | C* | 238R | M | -3 | 0 | | | | | | |

(b-1)



Enclosure: 1

[redacted] UNCLASSIFIED

# SONAR LOG

09 Feb 2001 22:28:14

(b-1)

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB P\S | RATE RANGE |
| 22:28:14 | 10 | 110 | UNK SURF | FC | [redacted] | | FCS | 232TP | L | 0 | 0 | 12 | 176 | 12 | P122 | 434 |
| 22:28:29 | 0 | 110 | UNK SURF | SA | 4 | D | C* | 237R | M | -4 | 0 | | | | | |
| 22:28:29 | 10 | 110 | UNK SURF | FC | • | | FCS | 232TP | L | 0 | 0 | 12 | 176 | 12 | P123 | 440 |
| 22:28:43 | 0 | 110 | UNK SURF | SA | | D | C* | 238R | M | -5 | 0 | | | | | |
| 22:28:43 | 10 | 110 | UNK SURF | FC | | | FCS | 231TP | L | 0 | 0 | 13 | 176 | 12 | P124 | 445 |
| 22:28:59 | 0 | 110 | UNK SURF | SA | | D | C* | 237R | M | -3 | 0 | | | | | |
| 22:28:59 | 0 | 12 | UNK SURF | SA | | D | D* | 332R | M | -8 | 0 | | | | | |
| 22:28:59 | 10 | 110 | UNK SURF | FC | | | FCS | 230TP | L | 0 | 0 | 13 | 176 | 12 | P124 | 452 |
| 22:29:14 | 0 | 110 | UNK SURF | SA | | D | C* | 236R | M | -3 | 0 | | | | | |
| 22:29:14 | 0 | 12 | UNK SURF | SA | | D | D* | 333R | M | -5 | 0 | | | | | |
| 22:29:14 | 10 | 110 | UNK SURF | FC | | | FCS | 237TP | L | 0 | 0 | 8 | 253 | 5 | S164 | 345 |
| 22:29:29 | 0 | 110 | UNK SURF | SA | | D | C* | 235R | M | -3 | 0 | | | | | |
| 22:29:29 | 0 | 12 | UNK SURF | SA | | D | D* | 333R | M | -6 | 0 | | | | | |
| 22:29:29 | 10 | 110 | UNK SURF | FC | | | FCS | 236TP | L | 0 | 0 | 8 | 253 | 5 | S163 | 345 |
| 22:29:44 | 0 | 110 | UNK SURF | SA | | D | C* | 235R | M | -4 | 0 | | | | | |
| 22:29:44 | 0 | 12 | UNK SURF | SA | | D | D* | 333R | M | -9 | 0 | | | | | |
| 22:29:44 | 10 | 110 | UNK SURF | FC | | | FCS | 236TP | L | 0 | 0 | 8 | 253 | 5 | S163 | 347 |
| 22:29:59 | 0 | 110 | UNK SURF | SA | | D | C* | 233R | M | -5 | 0 | | | | | |
| 22:29:59 | 0 | 12 | UNK SURF | SA | | D | D* | 332R | M | -9 | 0 | | | | | |
| 22:29:59 | 10 | 110 | UNK SURF | FC | | | FCS | 236TP | L | 0 | 0 | 8 | 253 | 5 | S162 | 350 |
| 22:29:59 | 12 | 12 | UNK SURF | FC | | | FCS | 332TP | L | 0 | 0 | 7 | 133 | 10 | S018 | 616 |
| 22:30:14 | 0 | 110 | UNK SURF | SA | | D | C* | 232R | M | -5 | 0 | | | | | |
| 22:30:14 | 0 | 12 | UNK SURF | SA | | D | D* | 333R | M | -8 | 0 | | | | | |
| 22:30:14 | 10 | 110 | UNK SURF | FC | | | FCS | 235TP | L | 0 | 0 | 8 | 253 | 5 | S162 | 351 |
| 22:30:14 | 12 | 12 | UNK SURF | FC | | | FCS | 332TP | L | 0 | 0 | 7 | 133 | 10 | S018 | 614 |
| 22:30:29 | 0 | 110 | UNK SURF | SA | | D | C* | 231R | M | -7 | 0 | | | | | |
| 22:30:29 | 0 | 12 | UNK SURF | SA | | D | D* | 332R | M | -9 | 0 | | | | | |
| 22:30:29 | 12 | 12 | UNK SURF | FC | | | FCS | 332TP | L | 0 | 0 | 7 | 133 | 10 | S018 | 611 |
| 22:30:29 | 10 | 110 | UNK SURF | FC | | | FCS | 235TP | L | 0 | 0 | 8 | 253 | 5 | S162 | 354 |
| 22:30:44 | 0 | 110 | UNK SURF | SA | | D | C* | 231R | M | -5 | 0 | | | | | |

(b-1)



Enclosure: 1

[redacted] UNCLASSIFIED

# SONAR LOG

(b-1)

09 Feb 2001 22:30:44

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB | P\S | RANGE RATE |
| 22:30:44 | 0 | 12 | UNK SURF | SA | * | D | D* | 331R | M | -5 | 0 | | | | | | |
| 22:30:44 | 10 | 110 | UNK SURF | FC | 4 | | FCS | 234TP | L | 0 | 0 | 8 | 253 | 5 | S161 | | 356 |
| 22:30:44 | 12 | 12 | UNK SURF | FC | * | | FCS | 332TP | L | 0 | 0 | 7 | 133 | 10 | S018 | | 605 |
| 22:30:59 | 0 | 110 | UNK SURF | SA | | D | C* | 230R | M | -6 | 0 | | | | | | |
| 22:30:59 | 0 | 12 | UNK SURF | SA | | D | D* | 332R | M | -6 | 0 | | | | | | |
| 22.30:59 | 10 | 110 | UNK SURF | FC | | | FCS | 234TP | L | 0 | 0 | 8 | 253 | 5 | S161 | | 349 |
| 22:30:59 | 12 | 12 | UNK SURF | FC | | | FCS | 331TP | L | 0 | 0 | 7 | 133 | 10 | S018 | | 596 |
| 22:31:14 | 0 | 110 | UNK SURF | SA | | D | C* | 231R | M | -6 | 0 | | | | | | |
| 22:31:14 | 0 | 12 | UNK SURF | SA | | D | D* | 332R | M | -6 | 0 | | | | | | |
| 22:31:14 | 12 | 12 | UNK SURF | FC | | | FCS | 331TP | L | 0 | 0 | 7 | 133 | 10 | S018 | | 597 |
| 22:31:14 | 10 | 110 | UNK SURF | FC | | | FCS | 234TP | L | 0 | 0 | 8 | 253 | 5 | S161 | | 345 |
| 22:31:29 | 0 | 110 | UNK SURF | SA | | D | C* | 231R | M | -7 | 0 | | | | | | |
| 22:31:29 | 0 | 12 | UNK SURF | SA | | D | D* | 333R | M | -5 | 0 | | | | | | |
| 22:31:29 | 10 | 110 | UNK SURF | FC | | | FCS | 233TP | L | 0 | 0 | 8 | 253 | 5 | S160 | | 344 |
| 22:31:29 | 12 | 12 | UNK SURF | FC | | | FCS | 331TP | L | 0 | 0 | 6 | 133 | 10 | S018 | | 594 |
| 22:31:44 | 0 | 110 | UNK SURF | SA | | D | C* | 229R | M | -6 | 0 | | | | | | |
| 22:31:44 | 0 | 12 | UNK SURF | SA | | D | D* | 331R | M | -7 | 0 | | | | | | |
| 22:31:44 | 10 | 110 | UNK SURF | FC | | | FCS | 233TP | L | 0 | 0 | 9 | 253 | 5 | S160 | | 352 |
| 22:31:44 | 12 | 12 | UNK SURF | FC | | | FCS | 331TP | L | 0 | 0 | 6 | 133 | 10 | S018 | | 593 |
| 22:31:59 | 0 | 13 | UNK SURF | SA | | D | B* | 356R | M | -12 | 0 | | | | | | |
| 22:31:59 | 0 | 110 | UNK SURF | SA | | D | C* | 230R | M | -7 | 0 | | | | | | |
| 22:31:59 | 0 | 12 | UNK SURF | SA | | D | D* | 331R | M | -8 | 0 | | | | | | |
| 22:31:59 | 10 | 110 | UNK SURF | FC | | | FCS | 233TP | L | 0 | 0 | 9 | 253 | 5 | S160 | | 357 |
| 22:31:59 | 12 | 12 | UNK SURF | FC | | | FCS | 331TP | L | 0 | 0 | 6 | 133 | 10 | S017 | | 592 |
| 22:32:14 | 0 | 13 | UNK SURF | SA | | D | B* | 999R | M | -7 | 0 | | | | | | |
| 22:32:14 | 0 | 110 | UNK SURF | SA | | D | C* | 229R | M | -9 | 0 | | | | | | |
| 22:32:14 | 0 | 12 | UNK SURF | SA | | D | D* | 331R | M | -7 | 0 | | | | | | |
| 22:32:14 | 12 | 12 | UNK SURF | FC | | | FCS | 331TP | L | 0 | 0 | 6 | 133 | 10 | S017 | | 592 |
| 22:32:14 | 10 | 110 | UNK SURF | FC | | | FCS | 232TP | L | 0 | 0 | 9 | 253 | 5 | S159 | | 354 |
| 22:32:29 | 0 | 13 | UNK SURF | SA | | D | B* | 000R | M | -7 | 0 | | | | | | |

(b-1)



Enclosure: 1

Use

[redacted] UNCLASSIFIED SONAR LOG

09 Feb 2001 22:32:29

(b-7)

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB | P\S | RANGE RATE |
| 22:32:29 | 0 | 12 | UNK SURF | SA | | D | D* | 332R | M | -6 | 0 | | | | | | |
| 22:32:29 | 12 | 12 | UNK SURF | FC | 4 | | FCS | 331TP | L | 0 | 0 | | 6 | 133 | 10 | | S017 | 589 |
| 22:32:44 | 0 | 13 | UNK SURF | SA | | D | B* | 003R | M | -10 | 0 | | | | | | |
| 22:32:44 | 0 | 12 | UNK SURF | SA | | D | D* | 332R | M | -6 | 0 | | | | | | |
| 22:32:44 | 12 | 12 | UNK SURF | FC | | | FCS | 331TP | L | 0 | 0 | | 6 | 133 | 10 | | S017 | 594 |
| 22:32:59 | 0 | 13 | UNK SURF | SA | | D | B* | 002R | M | -11 | 0 | | | | | | |
| 22:32:59 | 0 | 12 | UNK SURF | SA | | D | D* | 333R | M | -6 | 0 | | | | | | |
| 22:32:59 | 12 | 12 | UNK SURF | FC | | | FCS | 330TP | L | 0 | 0 | | 5 | 133 | 10 | | S017 | 598 |
| 22:32:59 | 13 | 13 | UNK SURF | FC | | | FCS | 999TP | R | 0 | 0 | | 30 | 7 | 10 | | S172 | |
| 22:33:14 | 0 | 13 | UNK SURF | SA | | D | B* | 001R | M | -7 | 0 | | | | | | |
| 22:33:14 | 0 | 12 | UNK SURF | SA | | D | D* | 333R | M | -5 | 0 | | | | | | |
| 22:33:14 | 12 | 12 | UNK SURF | FC | | | FCS | 330TP | L | 0 | 0 | | 5 | 133 | 10 | | S017 | 600 |
| 22:33:14 | 13 | 13 | UNK SURF | FC | | | FCS | 001TP | R | 0 | 0 | | 29 | 48 | 14 | | S133 | |
| 22:33:29 | 0 | 13 | UNK SURF | SA | | D | B* | 359R | M | -7 | 0 | | | | | | |
| 22:33:29 | 0 | 12 | UNK SURF | SA | | D | D* | 332R | M | -6 | 0 | | | | | | |
| 22:33:29 | 12 | 12 | UNK SURF | FC | | | FCS | 330TP | L | 0 | 0 | | 5 | 133 | 10 | | S017 | 594 |
| 22:33:29 | 13 | 13 | UNK SURF | FC | | | FCS | 003TP | R | 0 | 0 | | 9 | 109 | 13 | | S074 | 448 |
| 22:33:44 | 0 | 13 | UNK SURF | SA | | D | B* | 359R | M | -13 | 0 | | | | | | |
| 22:33:44 | 0 | 12 | UNK SURF | SA | | D | D* | 331R | M | -7 | 0 | | | | | | |
| 22:33:44 | 12 | 12 | UNK SURF | FC | | | FCS | 330TP | L | 0 | 0 | | 5 | 133 | 10 | | S016 | 594 |
| 22:33:44 | 13 | 13 | UNK SURF | FC | | | FCS | 004TP | R | 0 | 0 | | 9 | 109 | 13 | | S074 | 446 |
| 22:33:59 | 0 | 13 | UNK SURF | SA | | D | B* | 358R | M | -6 | 0 | | | | | | |
| 22:33:59 | 0 | 12 | UNK SURF | SA | | D | D* | 330R | M | -17 | 0 | | | | | | |
| 22:33:59 | 12 | 12 | UNK SURF | FC | | | FCS | 330TP | L | 0 | 0 | | 5 | 133 | 10 | | S016 | 593 |
| 22:33:59 | 13 | 13 | UNK SURF | FC | | | FCS | 005TP | R | 0 | 0 | | 9 | 109 | 13 | | S075 | 442 |
| 22:34:15 | 0 | 13 | UNK SURF | SA | | D | B* | 358R | M | -8 | 0 | | | | | | |
| 22:34:15 | 0 | 12 | UNK SURF | SA | | D | D* | 328R | M | -16 | 0 | | | | | | |
| 22:34:15 | 12 | 12 | UNK SURF | FC | | | FCS | 329TP | L | 0 | 0 | | 5 | 133 | 10 | | S016 | 592 |
| 22:34:15 | 13 | 13 | UNK SURF | FC | | | FCS | 005TP | R | 0 | 0 | | 9 | 109 | 13 | | S076 | 437 |
| 22:34:29 | 0 | 13 | UNK SURF | SA | | D | B* | 359R | M | -8 | 0 | | | | | | |

(b-1)



Enclosure: 1

[redacted] UNCLASSIFIED

# SONAR LOG

09 Feb 2001 22:34:29

(b-1)

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB P\S | RANGE RATE |
| 22:34:29 | 0 | 12 | UNK SURF | SA | | D | D* | 328R | M | -18 | 0 | | | | | |
| 22:34:29 | 12 | 12 | UNK SURF | FC | 4 | | FCS | 329TP | L | 0 | 0 | 5 | 133 | 10 | S016 | 593 |
| 22:34:29 | 13 | 13 | UNK SURF | FC | | | FCS | 006TP | R | 0 | 0 | 9 | 109 | 13 | S077 | 431 |
| 22:34:44 | 0 | 13 | UNK SURF | SA | | D | B* | 359R | M | -4 | 0 | | | | | |
| 22:34:44 | 13 | 13 | UNK SURF | FC | | | FCS | 007TP | R | 0 | 0 | 9 | 109 | 13 | S077 | 420 |
| 22:34:59 | 0 | 13 | UNK SURF | SA | | D | B* | 359R | M | -11 | 0 | | | | | |
| 22:34:59 | 13 | 13 | UNK SURF | FC | | | FCS | 008TP | R | 0 | 0 | 9 | 109 | 13 | S078 | 411 |
| 22:35:14 | 0 | 13 | UNK SURF | SA | | D | B* | 999R | M | -7 | 0 | | | | | |
| 22:35:14 | 13 | 13 | UNK SURF | FC | | | FCS | 008TP | R | 0 | 0 | 8 | 109 | 13 | S079 | 402 |
| 22:39:29 | 0 | 13 | UNK SURF | SA | | D | B* | 357R | M | -11 | 0 | | | | | |
| 22:39:29 | 13 | 13 | UNK SURF | FC | | | FCS | 009TP | R | 0 | 0 | 8 | 109 | 13 | S079 | 396 |
| 22:39:45 | 0 | 13 | UNK SURF | SA | | D | B* | 358R | M | -12 | 0 | | | | | |
| 22:40:00 | 0 | 13 | UNK SURF | SA | | D | B* | 008R | M | -16 | 0 | | | | | |
| 22:40:00 | 13 | 13 | UNK SURF | FC | | | FCS | 359TP | R | 0 | 0 | 6 | 170 | 4 | S009 | 439 |
| 22:40:15 | 0 | 13 | UNK SURF | SA | | D | B* | 020R | M | -8 | 0 | | | | | |
| 22:40:15 | 13 | 13 | UNK SURF | FC | | | FCS | 999TP | R | 0 | 0 | 6 | 170 | 4 | S009 | 411 |
| 22:40:29 | 0 | 13 | UNK SURF | SA | | D | B* | 035R | M | -11 | 0 | | | | | |
| 22:40:29 | 13 | 13 | UNK SURF | FC | | | FCS | 999TP | R | 0 | 0 | 6 | 170 | 4 | S010 | 361 |
| 22:40:44 | 0 | 13 | UNK SURF | SA | | D | B* | 050R | M | -12 | 0 | | | | | |
| 22:40:44 | 13 | 13 | UNK SURF | FC | | | FCS | 000TP | R | 0 | 0 | 6 | 170 | 4 | S010 | 300 |
| 22:40:59 | 0 | 13 | UNK SURF | SA | | D | B* | 064R | M | -14 | 0 | | | | | |
| 22:40:59 | 13 | 13 | UNK SURF | FC | | | FCS | 001TP | R | 0 | 0 | 6 | 170 | 4 | S011 | 230 |
| 22:41:14 | 0 | 13 | UNK SURF | SA | | D | B* | 078R | M | -14 | 0 | | | | | |
| 22:41:14 | 13 | 13 | UNK SURF | FC | | | FCS | 002TP | R | 0 | 0 | 6 | 170 | 4 | S011 | 163 |
| 22:41:30 | 0 | 13 | UNK SURF | SA | | D | B* | 092R | M | -14 | 0 | | | | | |
| 22:41:30 | 13 | 13 | UNK SURF | FC | | | FCS | 002TP | R | 0 | 0 | 6 | 170 | 4 | S012 | 99 |
| 22:41:45 | 0 | 13 | UNK SURF | SA | | D | B* | 104R | M | -15 | 0 | | | | | |
| 22:41:45 | 13 | 13 | UNK SURF | FC | | | FCS | 003TP | R | 0 | 0 | 6 | 170 | 4 | S013 | 45 |
| 22:42:00 | 0 | 13 | UNK SURF | SA | | D | B* | 110R | M | -13 | 0 | | | | | |
| 22:42:00 | 13 | 13 | UNK SURF | FC | | | FCS | 004TP | R | 0 | 0 | 6 | 170 | 4 | S013 | 15 |

(b-1)



Enclosure: 1

U

[redacted] UNCLASSIFIED

# SONAR LOG

09 Feb 2001 22:42:15

(b-1)

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | | SOLUTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | | RANGE (kyd) | COURSE | SPEED | AOB | P\S | RANGE RATE |
| 22:42:15 | 0 | 13 | UNK SURF | SA | [redacted] | D | B* | 113R | M | -12 | 0 | | | | | | | |
| 22:42:15 | 13 | 13 | UNK SURF | FC | 4 | | FCS | 004TP | R | 0 | 0 | | 6 | 170 | 4 | S014 | | 9 |
| 22:42:59 | 0 | 110 | UNK SURF | SA | [redacted] | D | C* | 323R | M | -11 | 0 | | | | | | | |
| 22:42:59 | 10 | 110 | UNK SURF | FC | | | FCS | 232TP | L | 0 | 0 | | 9 | 253 | 5 | S159 | | 352 |
| 22:43:14 | 0 | 110 | UNK SURF | SA | | D | C* | 322R | M | -10 | 0 | | | | | | | |
| 22:43:29 | 0 | 110 | UNK SURF | SA | | D | C* | 321R | M | -11 | 0 | | | | | | | |
| 22:43:29 | 10 | 110 | UNK SURF | FC | | | FCS | 224TP | R | 0 | 0 | | 11 | 253 | 5 | S150 | | 139 |
| 22:43:45 | 0 | 110 | UNK SURF | SA | | D | C* | 321R | M | -9 | 0 | | | | | | | |
| 22:43:45 | 10 | 110 | UNK SURF | FC | | | FCS | 224TP | R | 0 | 0 | | 11 | 253 | 5 | S150 | | 143 |
| 22:44:00 | 0 | 110 | UNK SURF | SA | | D | C* | 319R | M | -12 | 0 | | | | | | | |
| 22:44:00 | 10 | 110 | UNK SURF | FC | | | FCS | 224TP | M | 0 | 0 | | 11 | 253 | 5 | S150 | | 145 |
| 22:44:15 | 0 | 110 | UNK SURF | SA | | D | C* | 317R | M | -13 | 0 | | | | | | | |
| 22:44:15 | 10 | 110 | UNK SURF | FC | | | FCS | 199TP | L | 0 | 0 | | 4 | 40 | 4 | P020 | | 368 |
| 22:44:30 | 0 | 110 | UNK SURF | SA | | D | C* | 316R | M | -13 | 0 | | | | | | | |
| 22:44:30 | 10 | 110 | UNK SURF | FC | | | FCS | 198TP | L | 0 | 0 | | 4 | 40 | 4 | P021 | | 364 |
| 22:44:44 | 0 | 110 | UNK SURF | SA | | D | C* | 316R | M | -12 | 0 | | | | | | | |
| 22:44:44 | 10 | 110 | UNK SURF | FC | | | FCS | 197TP | L | 0 | 0 | | 4 | 40 | 4 | P022 | | 362 |
| 22:44:59 | 0 | 110 | UNK SURF | SA | | D | C* | 315R | M | -13 | 0 | | | | | | | |
| 22:44:59 | 10 | 110 | UNK SURF | FC | | | FCS | 196TP | L | 0 | 0 | | 4 | 40 | 4 | P023 | | 354 |
| 22:45:14 | 0 | 110 | UNK SURF | SA | | D | C* | 306R | M | -13 | 0 | | | | | | | |
| 22:45:14 | 10 | 110 | UNK SURF | FC | | | FCS | 195TP | L | 0 | 0 | | 4 | 40 | 4 | P024 | | 307 |
| 22:45:30 | 0 | 110 | UNK SURF | SA | | D | C* | 266R | M | -21 | 0 | | | | | | | |
| 22:45:30 | 10 | 110 | UNK SURF | FC | | | FCS | 194TP | L | 0 | 0 | | 4 | 40 | 4 | P025 | | 233 |
| 22:45:45 | 0 | 110 | UNK SURF | SA | | D | C* | 257R | M | -12 | 0 | | | | | | | |
| 22:45:45 | 10 | 110 | UNK SURF | FC | | | FCS | 192TP | L | 0 | 0 | | 4 | 40 | 4 | P027 | | 152 |
| 22:55:30 | 0 | 13 | UNK SURF | SA | | D | D* | 002R | M | -5 | 0 | | | | | | | |
| 22:55:30 | 13 | 13 | UNK SURF | FC | | | FCS | 004TP | R | 0 | 0 | | 6 | 170 | 4 | S014 | | 21 |
| 22:55:45 | 0 | 13 | UNK SURF | SA | | D | D* | 000R | M | -7 | 0 | | | | | | | |
| 22:56:00 | 0 | 12 | UNK SURF | SA | | D | C* | 327R | M | -7 | 0 | | | | | | | |
| 22:56:00 | 0 | 13 | UNK SURF | SA | | D | D* | 001R | M | -11 | 0 | | | | | | | |

(b-1)



Enclosure: 1

[redacted]

UNCLASSIFIED

# SONAR LOG

09 Feb 2001 22:56:00

(b-1)

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB | P\S | RRATE |
| 22:56:00 | 12 | 12 | UNK SURF | FC | | | FCS | 329TP | L | 0 | 0 | 5 | 133 | 10 | S016 | | 592 |
| 22:56:00 | 13 | 13 | UNK SURF | FC | | | FCS | 013TP | R | 0 | 0 | 3 | 189 | 6 | S005 | | 509 |
| 22:56:15 | 0 | 12 | UNK SURF | SA | | D | C* | 329R | M | -4 | 0 | | | | | | |
| 22:56:15 | 0 | 13 | UNK SURF | SA | | D | D* | 001R | M | -13 | 0 | | | | | | |
| 22:56:15 | 13 | 13 | UNK SURF | FC | | | FCS | 014TP | R | 0 | 0 | 3 | 189 | 6 | S005 | | 509 |
| 22:56:30 | 0 | 12 | UNK SURF | SA | | D | C* | 329R | M | -3 | 0 | | | | | | |
| 22:56:30 | 0 | 13 | UNK SURF | SA | | D | D* | 001R | M | -6 | 0 | | | | | | |
| 22:56:30 | 12 | 12 | UNK SURF | FC | | | FCS | 003TP | R | 0 | 0 | 1 | 136 | 9 | S047 | | 533 |
| 22:56:30 | 13 | 13 | UNK SURF | FC | | | FCS | 014TP | R | 0 | 0 | 2 | 189 | 6 | S006 | | 508 |
| 22:56:45 | 0 | 12 | UNK SURF | SA | | D | C* | 329R | M | -3 | 0 | | | | | | |
| 22:56:45 | 0 | 13 | UNK SURF | SA | | D | D* | 002R | M | -7 | 0 | | | | | | |
| 22:56:45 | 12 | 12 | UNK SURF | FC | | | FCS | 006TP | R | 0 | 0 | 1 | 136 | 9 | S050 | | 522 |
| 22:56:45 | 13 | 13 | UNK SURF | FC | | | FCS | 015TP | R | 0 | 0 | 2 | 189 | 6 | S006 | | 507 |
| 22:57:01 | 0 | 12 | UNK SURF | SA | | D | C* | 329R | M | -2 | 0 | | | | | | |
| 22:57:01 | 0 | 13 | UNK SURF | SA | | D | D* | 002R | M | -5 | 0 | | | | | | |
| 22:57:01 | 13 | 13 | UNK SURF | FC | | | FCS | 015TP | R | 0 | 0 | 2 | 189 | 6 | S007 | | 505 |
| 22:57:01 | 12 | 12 | UNK SURF | FC | | | FCS | 008TP | R | 0 | 0 | 1 | 136 | 9 | S052 | | 510 |
| 22:57:16 | 0 | 12 | UNK SURF | SA | | D | C* | 329R | M | -8 | 0 | | | | | | |
| 22:57:16 | 0 | 13 | UNK SURF | SA | | D | D* | 002R | M | -7 | 0 | | | | | | |
| 22:57:16 | 12 | 12 | UNK SURF | FC | | | FCS | 328TP | L | 0 | 0 | 9 | 131 | 3 | S018 | | 367 |
| 22:57:16 | 13 | 13 | UNK SURF | FC | | | FCS | 016TP | R | 0 | 0 | 2 | 189 | 6 | S007 | | 505 |
| 22:57:30 | 0 | 12 | UNK SURF | SA | | D | C* | 329R | M | -10 | 0 | | | | | | |
| 22:57:30 | 0 | 13 | UNK SURF | SA | | D | D* | 002R | M | -8 | 0 | | | | | | |
| 22:57:30 | 12 | 12 | UNK SURF | FC | | | FCS | 328TP | L | 0 | 0 | 8 | 131 | 3 | S017 | | 366 |
| 22:57:30 | 13 | 13 | UNK SURF | FC | | | FCS | 017TP | R | 0 | 0 | 2 | 189 | 6 | S008 | | 504 |
| 22:57:45 | 0 | 12 | UNK SURF | SA | | D | C* | 328R | M | -6 | 0 | | | | | | |
| 22:57:45 | 0 | 13 | UNK SURF | SA | | D | D* | 001R | M | -7 | 0 | | | | | | |
| 22:57:45 | 12 | 12 | UNK SURF | FC | | | FCS | 328TP | L | 0 | 0 | 8 | 131 | 3 | S017 | | 367 |
| 22:57:45 | 13 | 13 | UNK SURF | FC | | | FCS | 002TP | R | 0 | 0 | 7 | 11 | 11 | S171 | | 51 |
| 22:58:00 | 0 | 12 | UNK SURF | SA | | D | C* | 328R | M | -11 | 0 | | | | | | |

(b-1)



Enclosure: 1

UNCLASSIFIED

[redacted]

# SONAR LOG

(b-1)

09 Feb 2001 22:58:00

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB | P\S | RANGE | RATE |
| 22:58:00 | 0 | 13 | UNK SURF | SA | | D | D* | 004R | M | -8 | 0 | | | | | | | |
| 22:58:00 | 12 | 12 | UNK SURF | FC | 4 | | FCS | 328TP | L | 0 | 0 | | 8 | 131 | 3 | S017 | | 368 |
| 22:58:00 | 13 | 13 | UNK SURF | FC | * | | FCS | 002TP | R | 0 | 0 | | 7 | 11 | 11 | S171 | | 49 |
| 22:58:15 | 0 | 12 | UNK SURF | SA | | D | C* | 328R | M | -10 | 0 | | | | | | | |
| 22:58:15 | 0 | 13 | UNK SURF | SA | | D | D* | 003R | M | -8 | 0 | | | | | | | |
| 22:58:15 | 12 | 12 | UNK SURF | FC | | | FCS | 327TP | L | 0 | 0 | | 8 | 131 | 3 | S017 | | 367 |
| 22:58:15 | 13 | 13 | UNK SURF | FC | | | FCS | 002TP | R | 0 | 0 | | 7 | 11 | 11 | S171 | | 50 |
| 22:58:30 | 0 | 12 | UNK SURF | SA | | D | C* | 328R | M | -11 | 0 | | | | | | | |
| 22:58:30 | 0 | 13 | UNK SURF | SA | | D | D* | 004R | M | -8 | 0 | | | | | | | |
| 22:58:30 | 12 | 12 | UNK SURF | FC | | | FCS | 328TP | L | 0 | 0 | | 8 | 131 | 11 | S017 | | 642 |
| 22:58:30 | 13 | 13 | UNK SURF | FC | | | FCS | 002TP | R | 0 | 0 | | 7 | 11 | 11 | S171 | | 50 |
| 22:58:45 | 0 | 12 | UNK SURF | SA | | D | C* | 328R | M | -12 | 0 | | | | | | | |
| 22:58:45 | 0 | 13 | UNK SURF | SA | | D | D* | 004R | M | -9 | 0 | | | | | | | |
| 22:58:45 | 12 | 12 | UNK SURF | FC | | | FCS | 328TP | L | 0 | 0 | | 8 | 131 | 11 | S017 | | 643 |
| 22:58:45 | 13 | 13 | UNK SURF | FC | | | FCS | 002TP | R | 0 | 0 | | 7 | 11 | 11 | S172 | | 49 |
| 22:59:01 | 0 | 12 | UNK SURF | SA | | D | C* | 328R | M | -8 | 0 | | | | | | | |
| 22:59:01 | 0 | 13 | UNK SURF | SA | | D | D* | 006R | M | -8 | 0 | | | | | | | |
| 22:59:01 | 12 | 12 | UNK SURF | FC | | | FCS | 328TP | L | 0 | 0 | | 8 | 131 | 11 | S017 | | 644 |
| 22:59:01 | 13 | 13 | UNK SURF | FC | | | FCS | 002TP | R | 0 | 0 | | 7 | 11 | 11 | S172 | | 49 |
| 22:59:16 | 0 | 12 | UNK SURF | SA | | D | C* | 328R | M | -13 | 0 | | | | | | | |
| 22:59:16 | 0 | 13 | UNK SURF | SA | | D | D* | 004R | M | -8 | 0 | | | | | | | |
| 22:59:16 | 12 | 12 | UNK SURF | FC | | | FCS | 328TP | L | 0 | 0 | | 7 | 131 | 11 | S017 | | 643 |
| 22:59:16 | 13 | 13 | UNK SURF | FC | | | FCS | 003TP | R | 0 | 0 | | 7 | 11 | 11 | S172 | | 49 |
| 22:59:30 | 0 | 12 | UNK SURF | SA | | D | C* | 329R | M | -11 | 0 | | | | | | | |
| 22:59:30 | 0 | 13 | UNK SURF | SA | | D | D* | 002R | M | -4 | 0 | | | | | | | |
| 22:59:30 | 12 | 12 | UNK SURF | FC | | | FCS | 328TP | L | 0 | 0 | | 7 | 131 | 11 | S017 | | 643 |
| 22:59:30 | 13 | 13 | UNK SURF | FC | | | FCS | 003TP | R | 0 | 0 | | 7 | 11 | 11 | S172 | | 49 |
| 22:59:46 | 0 | 12 | UNK SURF | SA | | D | C* | 327R | M | -9 | 0 | | | | | | | |
| 22:59:46 | 0 | 13 | UNK SURF | SA | | D | D* | 002R | M | -3 | 0 | | | | | | | |
| 22:59:46 | 12 | 12 | UNK SURF | FC | | | FCS | 328TP | L | 0 | 0 | | 7 | 131 | 11 | S016 | | 641 |

(b-1)



Enclosure: 1

[redacted] UNCLASSIFIED SONAR LOG

09 Feb 2001 22:59:46

(b-1)

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | | SOLUTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | [redacted] | RANGE (kyd) | COURSE | SPEED | AOB | P\S | RANGE RATE |
| 22:59:46 | 13 | 13 | UNK SURF | FC | | | FCS | 003TP | R | 0 | 0 | | 7 | 11 | 11 | S172 | | 51 |
| 23:00:01 | 0 | 12 | UNK SURF | SA | | D | C* | 327R | M | -9 | 0 | | | | | | | |
| 23:00:01 | 0 | 13 | UNK SURF | SA | | D | D* | 003R | M | -5 | 0 | | | | | | | |
| 23:00:01 | 12 | 12 | UNK SURF | FC | | | FCS | 327TP | L | 0 | 0 | | 7 | 131 | 11 | S016 | | 640 |
| 23:00:01 | 13 | 13 | UNK SURF | FC | | | FCS | 003TP | R | 0 | 0 | | 7 | 11 | 11 | S172 | | 52 |
| 23:00:15 | 0 | 12 | UNK SURF | SA | | D | C* | 328R | M | -20 | 0 | | | | | | | |
| 23:00:15 | 0 | 13 | UNK SURF | SA | | D | D* | 003R | M | -5 | 0 | | | | | | | |
| 23:00:15 | 12 | 12 | UNK SURF | FC | | | FCS | 327TP | L | 0 | 0 | | 7 | 131 | 11 | S016 | | 640 |
| 23:00:15 | 13 | 13 | UNK SURF | FC | | | FCS | 003TP | R | 0 | 0 | | 7 | 11 | 11 | S172 | | 53 |
| 23:00:30 | 0 | 12 | UNK SURF | SA | | D | C* | 328R | M | -10 | 0 | | | | | | | |
| 23:00:30 | 0 | 13 | UNK SURF | SA | | D | D* | 003R | M | -5 | 0 | | | | | | | |
| 23:00:30 | 12 | 12 | UNK SURF | FC | | | FCS | 327TP | L | 0 | 0 | | 7 | 131 | 11 | S016 | | 639 |
| 23:00:30 | 13 | 13 | UNK SURF | FC | | | FCS | 003TP | R | 0 | 0 | | 7 | 11 | 11 | S173 | | 53 |
| 23:00:45 | 0 | 12 | UNK SURF | SA | | D | C* | 327R | M | -7 | 0 | | | | | | | |
| 23:00:45 | 0 | 13 | UNK SURF | SA | | D | D* | 003R | M | -3 | 0 | | | | | | | |
| 23:00:45 | 12 | 12 | UNK SURF | FC | | | FCS | 327TP | L | 0 | 0 | | 6 | 131 | 11 | S016 | | 638 |
| 23:00:45 | 13 | 13 | UNK SURF | FC | | | FCS | 003TP | R | 0 | 0 | | 7 | 11 | 11 | S173 | | 54 |
| 23:01:01 | 0 | 12 | UNK SURF | SA | | D | C* | 327R | M | -9 | 0 | | | | | | | |
| 23:01:01 | 0 | 13 | UNK SURF | SA | | D | D* | 003R | M | -4 | 0 | | | | | | | |
| 23:01:01 | 12 | 12 | UNK SURF | FC | | | FCS | 327TP | L | 0 | 0 | | 6 | 131 | 11 | S016 | | 637 |
| 23:01:01 | 13 | 13 | UNK SURF | FC | | | FCS | 003TP | R | 0 | 0 | | 7 | 11 | 11 | S173 | | 55 |
| 23:01:16 | 0 | 12 | UNK SURF | SA | | D | C* | 327R | M | 2 | 0 | | | | | | | |
| 23:01:16 | 0 | 13 | UNK SURF | SA | | D | D* | 004R | M | -8 | 0 | | | | | | | |
| 23:01:16 | 12 | 12 | UNK SURF | FC | | | FCS | 327TP | L | 0 | 0 | | 6 | 131 | 11 | S016 | | 637 |
| 23:01:16 | 13 | 13 | UNK SURF | FC | | | FCS | 004TP | R | 0 | 0 | | 7 | 11 | 11 | S173 | | 54 |
| 23:01:31 | 0 | 12 | UNK SURF | SA | | D | C* | 327R | M | 2 | 0 | | | | | | | |
| 23:01:31 | 0 | 13 | UNK SURF | SA | | D | D* | 004R | M | -9 | 0 | | | | | | | |
| 23:01:31 | 12 | 12 | UNK SURF | FC | | | FCS | 326TP | L | 0 | 0 | | 6 | 131 | 11 | S015 | | 638 |
| 23:01:31 | 13 | 13 | UNK SURF | FC | | | FCS | 004TP | R | 0 | 0 | | 7 | 11 | 11 | S173 | | 52 |
| 23:01:46 | 0 | 12 | UNK SURF | SA | | D | C* | 327R | M | 1 | 0 | | | | | | | |

(b-1)



Enclosure: 1

[redacted] UNCLASSIFIED

# SONAR LOG

09 Feb 2001 23:01:46

(b-1)

| | |
|---|---|
| HULL # | SSN772 PLATFORM: USS uss greeneville |
| SONAR SYS: | AN/BSY-1, AN/BQQ-10, , |
| MISSION: | |

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB | P\S RANGE | RATE |
| 23:01:46 | 0 | 13 | UNK SURF | SA | | D | D* | 004R | M | -7 | 0 | | | | | | |
| 23:01:46 | 12 | 12 | UNK SURF | FC | | | FCS | 326TP | L | 0 | 0 | 6 | 131 | 11 | S015 | 638 | |
| 23:01:46 | 13 | 13 | UNK SURF | FC | | | FCS | 004TP | R | 0 | 0 | 7 | 11 | 11 | S173 | 53 | |
| 23:02:01 | 0 | 12 | UNK SURF | SA | | D | C* | 327R | M | 1 | 0 | | | | | | |
| 23:02:01 | 0 | 13 | UNK SURF | SA | | D | D* | 004R | M | -10 | 0 | | | | | | |
| 23:02:01 | 12 | 12 | UNK SURF | FC | | | FCS | 326TP | L | 0 | 0 | 6 | 131 | 11 | S015 | 637 | |
| 23:02:01 | 13 | 13 | UNK SURF | FC | | | FCS | 004TP | R | 0 | 0 | 7 | 11 | 11 | S173 | 54 | |
| 23:02:16 | 0 | 12 | UNK SURF | SA | | D | C* | 327R | M | 0 | 0 | | | | | | |
| 23:02:16 | 0 | 13 | UNK SURF | SA | | D | D* | 004R | M | -9 | 0 | | | | | | |
| 23:02:16 | 12 | 12 | UNK SURF | FC | | | FCS | 326TP | L | 0 | 0 | 5 | 131 | 11 | S015 | 640 | |
| 23:02:16 | 13 | 13 | UNK SURF | FC | | | FCS | 004TP | R | 0 | 0 | 7 | 11 | 11 | S173 | 51 | |
| 23:02:30 | 0 | 12 | UNK SURF | SA | | D | C* | 327R | M | -1 | 0 | | | | | | |
| 23:02:30 | 0 | 13 | UNK SURF | SA | | D | D* | 004R | M | -12 | 0 | | | | | | |
| 23:02:30 | 12 | 12 | UNK SURF | FC | | | FCS | 326TP | L | 0 | 0 | 5 | 131 | 11 | S015 | 641 | |
| 23:02:30 | 13 | 13 | UNK SURF | FC | | | FCS | 004TP | R | 0 | 0 | 7 | 11 | 11 | S174 | 50 | |
| 23:02:45 | 0 | 12 | UNK SURF | SA | | D | C* | 327R | M | 0 | 0 | | | | | | |
| 23:02:45 | 0 | 13 | UNK SURF | SA | | D | D* | 005R | M | -9 | 0 | | | | | | |
| 23:02:45 | 12 | 12 | UNK SURF | FC | | | FCS | 325TP | L | 0 | 0 | 5 | 131 | 11 | S014 | 640 | |
| 23:02:45 | 13 | 13 | UNK SURF | FC | | | FCS | 004TP | R | 0 | 0 | 7 | 11 | 11 | S174 | 51 | |
| 23:03:01 | 0 | 12 | UNK SURF | SA | | D | C* | 327R | M | 0 | 0 | | | | | | |
| 23:03:01 | 0 | 13 | UNK SURF | SA | | D | D* | 005R | M | -8 | 0 | | | | | | |
| 23:03:01 | 12 | 12 | UNK SURF | FC | | | FCS | 325TP | L | 0 | 0 | 5 | 131 | 11 | S014 | 636 | |
| 23:03:01 | 13 | 13 | UNK SURF | FC | | | FCS | 004TP | R | 0 | 0 | 7 | 11 | 11 | S174 | 54 | |
| 23:03:16 | 0 | 12 | UNK SURF | SA | | D | C* | 327R | M | 1 | 0 | | | | | | |
| 23:03:16 | 0 | 13 | UNK SURF | SA | | D | D* | 005R | M | -8 | 0 | | | | | | |
| 23:03:16 | 12 | 12 | UNK SURF | FC | | | FCS | 325TP | L | 0 | 0 | 5 | 131 | 11 | S014 | 632 | |
| 23:03:16 | 13 | 13 | UNK SURF | FC | | | FCS | 005TP | R | 0 | 0 | 7 | 11 | 11 | S174 | 59 | |
| 23:03:31 | 0 | 12 | UNK SURF | SA | | D | C* | 326R | M | -1 | 0 | | | | | | |
| 23:03:31 | 0 | 13 | UNK SURF | SA | | D | D* | 004R | M | -8 | 0 | | | | | | |
| 23:03:31 | 12 | 12 | UNK SURF | FC | | | FCS | 325TP | L | 0 | 0 | 5 | 131 | 11 | S014 | 633 | |

(b-1)



Enclosure: 1

[redacted]

UNCLASSIFIED

# SONAR LOG

09 Feb 2001 23:03:31

(b-1)

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMENT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB | P\S | RANGE RATE |
| 23:03:31 | 13 | 13 | UNK SURF | FC | | | FCS | 005TP | R | 0 | 0 | 7 | 11 | 11 | S174 | | 58 |
| 23:03:46 | 0 | 12 | UNK SURF | SA | 4 | D | C* | 326R | M | 1 | 0 | | | | | | |
| 23:03:46 | 0 | 13 | UNK SURF | SA | • | D | D* | 005R | M | -7 | 0 | | | | | | |
| 23:03:46 | 12 | 12 | UNK SURF | FC | | | FCS | 324TP | L | 0 | 0 | 5 | 131 | 11 | S013 | | 635 |
| 23:03:46 | 13 | 13 | UNK SURF | FC | | | FCS | 005TP | R | 0 | 0 | 7 | 11 | 11 | S174 | | 55 |
| 23:04:01 | 0 | 12 | UNK SURF | SA | | D | C* | 327R | M | -2 | 0 | | | | | | |
| 23:04:01 | 0 | 13 | UNK SURF | SA | | D | D* | 005R | M | -5 | 0 | | | | | | |
| 23:04:01 | 12 | 12 | UNK SURF | FC | | | FCS | 324TP | L | 0 | 0 | 4 | 131 | 11 | S013 | | 634 |
| 23:04:01 | 13 | 13 | UNK SURF | FC | | | FCS | 005TP | R | 0 | 0 | 7 | 11 | 11 | S174 | | 56 |
| 23:04:16 | 0 | 12 | UNK SURF | SA | | D | C* | 327R | M | 5 | 0 | | | | | | |
| 23:04:16 | 0 | 13 | UNK SURF | SA | | D | D* | 006R | M | -10 | 0 | | | | | | |
| 23:04:16 | 12 | 12 | UNK SURF | FC | | | FCS | 324TP | L | 0 | 0 | 4 | 131 | 11 | S013 | | 634 |
| 23:04:16 | 13 | 13 | UNK SURF | FC | | | FCS | 005TP | R | 0 | 0 | 7 | 11 | 11 | S174 | | 56 |
| 23:04:30 | 0 | 12 | UNK SURF | SA | | D | C* | 327R | M | 6 | 0 | | | | | | |
| 23:04:30 | 0 | 13 | UNK SURF | SA | | D | D* | 007R | M | -5 | 0 | | | | | | |
| 23:04:30 | 12 | 12 | UNK SURF | FC | | | FCS | 326TP | L | 0 | 0 | 4 | 348 | 13 | S158 | | 121 |
| 23:04:30 | 13 | 13 | UNK SURF | FC | | | FCS | 005TP | R | 0 | 0 | 7 | 11 | 11 | S175 | | 56 |
| 23:04:45 | 0 | 12 | UNK SURF | SA | | D | C* | 325R | M | 6 | 0 | | | | | | |
| 23:04:45 | 0 | 13 | UNK SURF | SA | | D | D* | 006R | M | -5 | 0 | | | | | | |
| 23:04:45 | 12 | 12 | UNK SURF | FC | | | FCS | 326TP | L | 0 | 0 | 4 | 348 | 13 | S158 | | 127 |
| 23:04:45 | 13 | 13 | UNK SURF | FC | | | FCS | 005TP | R | 0 | 0 | 7 | 11 | 11 | S175 | | 56 |
| 23:05:01 | 0 | 12 | UNK SURF | SA | | D | C* | 321R | M | 6 | 0 | | | | | | |
| 23:05:01 | 0 | 13 | UNK SURF | SA | | D | D* | 003R | M | -5 | 0 | | | | | | |
| 23:05:01 | 12 | 12 | UNK SURF | FC | | | FCS | 326TP | L | 0 | 0 | 4 | 348 | 13 | S158 | | 140 |
| 23:05:01 | 13 | 13 | UNK SURF | FC | | | FCS | 005TP | R | 0 | 0 | 7 | 11 | 11 | S175 | | 56 |
| 23:05:16 | 0 | 12 | UNK SURF | SA | | D | C* | 317R | M | 6 | 0 | | | | | | |
| 23:05:16 | 0 | 13 | UNK SURF | SA | | D | D* | 357R | M | -4 | 0 | | | | | | |
| 23:05:16 | 12 | 12 | UNK SURF | FC | | | FCS | 326TP | L | 0 | 0 | 4 | 348 | 13 | S158 | | 155 |
| 23:05:16 | 13 | 13 | UNK SURF | FC | | | FCS | 005TP | R | 0 | 0 | 7 | 11 | 11 | S175 | | 57 |
| 23:05:31 | 0 | 12 | UNK SURF | SA | | D | C* | 314R | M | 6 | 0 | | | | | | |

(b-1)



Enclosure: 1

[redacted] UNCLASSIFIED

# SONAR LOG

09 Feb 2001 23:05:31

(b-1)

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB | PBS | RATE |
| 23:05:31 | 0 | 13 | UNK SURF | SA | | D | D* | 354R | M | -2 | 0 | | | | | | |
| 23:05:31 | 12 | 12 | UNK SURF | FC | 4 | | FCS | 325TP | L | 0 | 0 | 6 | 131 | 12 | S015 | | 622 |
| 23:05:31 | 13 | 13 | UNK SURF | FC | ' | | FCS | 006TP | M | 0 | 0 | 8 | 11 | 11 | S175 | | 58 |
| 23:05:46 | 0 | 12 | UNK SURF | SA | | D | C* | 311R | M | 4 | 0 | | | | | | |
| 23:05:46 | 0 | 13 | UNK SURF | SA | | D | D* | 352R | M | -2 | 0 | | | | | | |
| 23:05:46 | 13 | 13 | UNK SURF | FC | | | FCS | 006TP | L | 0 | 0 | 8 | 11 | 11 | S175 | | 60 |
| 23:05:46 | 12 | 12 | UNK SURF | FC | | | FCS | 325TP | L | 0 | 0 | 6 | 131 | 12 | S015 | | 611 |
| 23:06:01 | 0 | 12 | UNK SURF | SA | | D | C* | 309R | M | 7 | 0 | | | | | | |
| 23:06:01 | 0 | 13 | UNK SURF | SA | | D | D* | 349R | M | -5 | 0 | | | | | | |
| 23:06:01 | 12 | 12 | UNK SURF | FC | | | FCS | 325TP | L | 0 | 0 | 6 | 131 | 12 | S014 | | 601 |
| 23:06:01 | 13 | 13 | UNK SURF | FC | | | FCS | 005TP | L | 0 | 0 | 8 | 10 | 11 | S175 | | 61 |
| 23:06:16 | 0 | 12 | UNK SURF | SA | | D | C* | 308R | M | 6 | 0 | | | | | | |
| 23:06:16 | 0 | 13 | UNK SURF | SA | | D | D* | 348R | M | -5 | 0 | | | | | | |
| 23:06:16 | 13 | 13 | UNK SURF | FC | | | FCS | 005TP | L | 0 | 0 | 8 | 10 | 11 | S175 | | 63 |
| 23:06:16 | 12 | 12 | UNK SURF | FC | | | FCS | 325TP | L | 0 | 0 | 6 | 131 | 12 | S014 | | 592 |
| 23:06:31 | 0 | 12 | UNK SURF | SA | | D | C* | 306R | M | 5 | 0 | | | | | | |
| 23:06:31 | 0 | 13 | UNK SURF | SA | | D | D* | 348R | M | -5 | 0 | | | | | | |
| 23:06:31 | 12 | 12 | UNK SURF | FC | | | FCS | 324TP | L | 0 | 0 | 5 | 131 | 12 | S014 | | 585 |
| 23:06:31 | 13 | 13 | UNK SURF | FC | | | FCS | 005TP | L | 0 | 0 | 8 | 10 | 11 | S175 | | 64 |
| 23:06:45 | 0 | 12 | UNK SURF | SA | | D | C* | 305R | M | 5 | 0 | | | | | | |
| 23:06:45 | 0 | 13 | UNK SURF | SA | | D | D* | 346R | M | -3 | 0 | | | | | | |
| 23:06:45 | 12 | 12 | UNK SURF | FC | | | FCS | 324TP | L | 0 | 0 | 5 | 131 | 12 | S013 | | 578 |
| 23:06:45 | 13 | 13 | UNK SURF | FC | | | FCS | 005TP | L | 0 | 0 | 8 | 10 | 11 | S175 | | 66 |
| 23:07:01 | 0 | 12 | UNK SURF | SA | | D | C* | 305R | M | 4 | 0 | | | | | | |
| 23:07:01 | 0 | 13 | UNK SURF | SA | | D | D* | 347R | M | -3 | 0 | | | | | | |
| 23:07:01 | 12 | 12 | UNK SURF | FC | | | FCS | 323TP | L | 0 | 0 | 5 | 131 | 12 | S013 | | 576 |
| 23:07:01 | 13 | 13 | UNK SURF | FC | | | FCS | 005TP | L | 0 | 0 | 8 | 10 | 11 | S175 | | 67 |
| 23:07:16 | 0 | 12 | UNK SURF | SA | | D | C* | 305R | M | 5 | 0 | | | | | | |
| 23:07:16 | 0 | 13 | UNK SURF | SA | | D | D* | 347R | M | -4 | 0 | | | | | | |
| 23:07:16 | 12 | 12 | UNK SURF | FC | | | FCS | 323TP | L | 0 | 0 | 5 | 131 | 12 | S012 | | 576 |

(b-1)



Enclosure: 1

[redacted] UNCLASSIFIED

# SONAR LOG

09 Feb 2001 23:07:16

(b-1)

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | | [redacted] | SOLUTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | | RANGE (kyd) | COURSE | SPEED | AOB | P\S | RANGE RATE |
| 23:07:16 | 13 | 13 | UNK SURF | FC | [redacted] | | FCS | 005TP | L | 0 | 0 | | 8 | 10 | 11 | S175 | | 67 |
| 23:07:31 | 0 | 12 | UNK SURF | SA | [redacted] | D | C* | 305R | M | 4 | 0 | | | | | | | |
| 23:07:31 | 0 | 13 | UNK SURF | SA | [redacted] | D | D* | 348R | M | -4 | 0 | | | | | | | |
| 23:07:31 | 12 | 12 | UNK SURF | FC | | | FCS | 322TP | L | 0 | 0 | | 5 | 131 | 12 | S012 | | 575 |
| 23:07:31 | 13 | 13 | UNK SURF | FC | | | FCS | 005TP | L | 0 | 0 | | 8 | 10 | 11 | S174 | | 66 |
| 23:07:46 | 0 | 12 | UNK SURF | SA | | D | C* | 305R | M | 7 | 0 | | | | | | | |
| 23:07:46 | 0 | 13 | UNK SURF | SA | | D | D* | 347R | M | -2 | 0 | | | | | | | |
| 23:07:46 | 12 | 12 | UNK SURF | FC | | | FCS | 322TP | L | 0 | 0 | | 5 | 131 | 12 | S011 | | 574 |
| 23:07:46 | 13 | 13 | UNK SURF | FC | | | FCS | 005TP | L | 0 | 0 | | 8 | 10 | 11 | S174 | | 65 |
| 23:08:01 | 0 | 12 | UNK SURF | SA | | D | C* | 304R | M | 2 | 0 | | | | | | | |
| 23:08:01 | 0 | 13 | UNK SURF | SA | | D | D* | 347R | M | 0 | 0 | | | | | | | |
| 23:08:01 | 12 | 12 | UNK SURF | FC | | | FCS | 321TP | L | 0 | 0 | | 5 | 131 | 12 | S011 | | 572 |
| 23:08:01 | 13 | 13 | UNK SURF | FC | | | FCS | 005TP | L | 0 | 0 | | 8 | 10 | 11 | S174 | | 65 |
| 23:08:16 | 0 | 12 | UNK SURF | SA | | D | C* | 304R | M | 1 | 0 | | | | | | | |
| 23:08:16 | 0 | 13 | UNK SURF | SA | | D | D* | 347R | M | 2 | 0 | | | | | | | |
| 23:08:16 | 12 | 12 | UNK SURF | FC | | | FCS | 321TP | L | 0 | 0 | | 4 | 131 | 12 | S010 | | 570 |
| 23:08:16 | 13 | 13 | UNK SURF | FC | | | FCS | 005TP | L | 0 | 0 | | 8 | 10 | 11 | S174 | | 65 |
| 23:08:31 | 0 | 12 | UNK SURF | SA | | D | C* | 304R | M | 0 | 0 | | | | | | | |
| 23:08:31 | 0 | 13 | UNK SURF | SA | | D | D* | 347R | M | 1 | 0 | | | | | | | |
| 23:08:31 | 12 | 12 | UNK SURF | FC | | | FCS | 320TP | L | 0 | 0 | | 4 | 131 | 12 | S009 | | 569 |
| 23:08:31 | 13 | 13 | UNK SURF | FC | | | FCS | 004TP | L | 0 | 0 | | 8 | 10 | 11 | S174 | | 64 |
| 23:08:46 | 0 | 12 | UNK SURF | SA | | D | C* | 304R | M | 2 | 0 | | | | | | | |
| 23:08:46 | 0 | 13 | UNK SURF | SA | | D | D* | 347R | M | 0 | 0 | | | | | | | |
| 23:08:46 | 12 | 12 | UNK SURF | FC | | | FCS | 324TP | L | 0 | 0 | | 11 | 343 | 13 | S160 | | 242 |
| 23:08:46 | 13 | 13 | UNK SURF | FC | | | FCS | 004TP | L | 0 | 0 | | 8 | 10 | 11 | S174 | | 63 |
| 23:09:02 | 0 | 12 | UNK SURF | SA | | D | C* | 304R | M | 4 | 0 | | | | | | | |
| 23:09:02 | 0 | 13 | UNK SURF | SA | | D | D* | 347R | M | 2 | 0 | | | | | | | |
| 23:09:02 | 13 | 13 | UNK SURF | FC | | | FCS | 004TP | L | 0 | 0 | | 8 | 10 | 11 | S174 | | 60 |
| 23:09:02 | 12 | 12 | UNK SURF | FC | | | FCS | 324TP | L | 0 | 0 | | 11 | 343 | 13 | S160 | | 242 |
| 23:09:16 | 0 | 12 | UNK SURF | SA | | D | C* | 304R | M | 5 | 0 | | | | | | | |

(b-1)



Enclosure: 1

[redacted] UNCLASSIFIED

# SONAR LOG

09 Feb 2001 23:09:16

(b-1)

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB P\S | RANGE RATE |
| 23:09:16 | 0 | 13 | UNK SURF | SA | [redacted] | D | D* | 347R | M | -1 | 0 | | | | | |
| 23:09:16 | 12 | 12 | UNK SURF | FC | [redacted] | | FCS | 324TP | L | 0 | 0 | 11 | 343 | 13 | S160 | 243 |
| 23:09:16 | 13 | 13 | UNK SURF | FC | [redacted] | | FCS | 004TP | L | 0 | 0 | 8 | 10 | 11 | S174 | 61 |
| 23:09:31 | 0 | 12 | UNK SURF | SA | | D | C* | 304R | M | -1 | 0 | | | | | |
| 23:09:31 | 0 | 13 | UNK SURF | SA | | D | D* | 348R | M | -5 | 0 | | | | | |
| 23:09:31 | 12 | 12 | UNK SURF | FC | | | FCS | 323TP | L | 0 | 0 | 11 | 343 | 13 | S160 | 243 |
| 23:09:31 | 13 | 13 | UNK SURF | FC | | | FCS | 004TP | L | 0 | 0 | 8 | 10 | 11 | S174 | 61 |
| 23:09:46 | 0 | 12 | UNK SURF | SA | | D | C* | 304R | M | 4 | 0 | | | | | |
| 23:09:46 | 0 | 13 | UNK SURF | SA | | D | D* | 347R | M | -6 | 0 | | | | | |
| 23:09:46 | 13 | 13 | UNK SURF | FC | | | FCS | 004TP | L | 0 | 0 | 8 | 10 | 11 | S174 | 60 |
| 23:09:46 | 12 | 12 | UNK SURF | FC | | | FCS | 323TP | L | 0 | 0 | 11 | 343 | 13 | S160 | 242 |
| 23:10:01 | 0 | 12 | UNK SURF | SA | | D | C* | 303R | M | 1 | 0 | | | | | |
| 23:10:01 | 0 | 13 | UNK SURF | SA | | D | D* | 347R | M | -1 | 0 | | | | | |
| 23:10:01 | 12 | 12 | UNK SURF | FC | | | FCS | 323TP | L | 0 | 0 | 11 | 343 | 13 | S160 | 242 |
| 23:10:01 | 13 | 13 | UNK SURF | FC | | | FCS | 004TP | L | 0 | 0 | 8 | 10 | 11 | S174 | 60 |
| 23:10:16 | 0 | 12 | UNK SURF | SA | | D | C* | 303R | M | 0 | 0 | | | | | |
| 23:10:16 | 0 | 13 | UNK SURF | SA | | D | D* | 347R | M | -8 | 0 | | | | | |
| 23:10:16 | 12 | 12 | UNK SURF | FC | | | FCS | 323TP | L | 0 | 0 | 11 | 343 | 13 | S160 | 244 |
| 23:10:16 | 13 | 13 | UNK SURF | FC | | | FCS | 004TP | L | 0 | 0 | 8 | 10 | 11 | S174 | 64 |
| 23:10:31 | 0 | 12 | UNK SURF | SA | | D | C* | 303R | M | -30 | 0 | | | | | |
| 23:10:31 | 0 | 13 | UNK SURF | SA | | D | D* | 347R | M | -1 | 0 | | | | | |
| 23:10:31 | 12 | 12 | UNK SURF | FC | | | FCS | 323TP | L | 0 | 0 | 11 | 343 | 13 | S159 | 244 |
| 23:10:31 | 13 | 13 | UNK SURF | FC | | | FCS | 004TP | L | 0 | 0 | 8 | 10 | 11 | S173 | 63 |
| 23:10:46 | 0 | 12 | UNK SURF | SA | | D | C* | 304R | M | -30 | 0 | | | | | |
| 23:10:46 | 0 | 13 | UNK SURF | SA | | D | D* | 347R | M | 1 | 0 | | | | | |
| 23:10:46 | 13 | 13 | UNK SURF | FC | | | FCS | 004TP | L | 0 | 0 | 8 | 10 | 11 | S173 | 58 |
| 23:10:46 | 12 | 12 | UNK SURF | FC | | | FCS | 323TP | L | 0 | 0 | 11 | 343 | 13 | S159 | 242 |
| 23:11:02 | 0 | 12 | UNK SURF | SA | | D | C* | 309R | M | -30 | 0 | | | | | |
| 23:11:02 | 0 | 13 | UNK SURF | SA | | D | D* | 346R | M | -3 | 0 | | | | | |
| 23:11:02 | 12 | 12 | UNK SURF | FC | | | FCS | 322TP | L | 0 | 0 | 11 | 343 | 13 | S159 | 243 |

(b-1)



Enclosure: 1

[redacted] UNCLASSIFIED

# SONAR LOG

09 Feb 2001 23:11:02

(b-1)

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB PS | RANGE RATE |
| 23:11:02 | 13 | 13 | UNK SURF | FC | | | FCS | 004TP | L | 0 | 0 | 8 | 10 | 11 | S173 | 59 |
| 23:11:17 | 0 | 12 | UNK SURF | SA | 4 | D | C* | 313R | M | -30 | 0 | | | | | |
| 23:11:17 | 0 | 13 | UNK SURF | SA | * | D | D* | 346R | M | -2 | 0 | | | | | |
| 23:11:17 | 12 | 12 | UNK SURF | FC | | | FCS | 322TP | L | 0 | 0 | 11 | 343 | 13 | S159 | 248 |
| 23:11:17 | 13 | 13 | UNK SURF | FC | | | FCS | 004TP | L | 0 | 0 | 8 | 10 | 11 | S173 | 67 |
| 23:11:31 | 0 | 13 | UNK SURF | SA | | D | D* | 347R | M | -2 | 0 | | | | | |
| 23:11:31 | 13 | 13 | UNK SURF | FC | | | FCS | 003TP | L | 0 | 0 | 8 | 10 | 11 | S173 | 65 |
| 23:11:46 | 0 | 13 | UNK SURF | SA | | D | D* | 347R | M | 2 | 0 | | | | | |
| 23:11:46 | 13 | 13 | UNK SURF | FC | | | FCS | 003TP | L | 0 | 0 | 8 | 10 | 11 | S173 | 67 |
| 23:12:01 | 0 | 13 | UNK SURF | SA | | D | D* | 347R | M | 0 | 0 | | | | | |
| 23:12:01 | 13 | 13 | UNK SURF | FC | | | FCS | 003TP | L | 0 | 0 | 8 | 10 | 11 | S173 | 64 |
| 23:12:16 | 0 | 13 | UNK SURF | SA | | D | D* | 347R | M | 3 | 0 | | | | | |
| 23:12:16 | 13 | 13 | UNK SURF | FC | | | FCS | 003TP | L | 0 | 0 | 8 | 10 | 11 | S173 | 61 |
| 23:12:31 | 0 | 13 | UNK SURF | SA | | D | D* | 347R | M | 3 | 0 | | | | | |
| 23:12:31 | 13 | 13 | UNK SURF | FC | | | FCS | 003TP | L | 0 | 0 | 8 | 10 | 11 | S173 | 63 |
| 23:12:46 | 0 | 12 | UNK SURF | SA | | D | C* | 302R | M | -4 | 0 | | | | | |
| 23:12:46 | 0 | 13 | UNK SURF | SA | | D | D* | 347R | M | 4 | 0 | | | | | |
| 23:12:46 | 12 | 12 | UNK SURF | FC | | | FCS | 322TP | L | 0 | 0 | 11 | 343 | 13 | S159 | 248 |
| 23:12:46 | 13 | 13 | UNK SURF | FC | | | FCS | 003TP | L | 0 | 0 | 8 | 10 | 11 | S173 | 64 |
| 23:13:02 | 0 | 12 | UNK SURF | SA | | D | C* | 302R | M | -3 | 0 | | | | | |
| 23:13:02 | 0 | 13 | UNK SURF | SA | | D | D* | 347R | M | 4 | 0 | | | | | |
| 23:13:02 | 13 | 13 | UNK SURF | FC | | | FCS | 003TP | L | 0 | 0 | 8 | 10 | 11 | S173 | 64 |
| 23:13:17 | 0 | 12 | UNK SURF | SA | | D | C* | 302R | M | -1 | 0 | | | | | |
| 23:13:17 | 0 | 13 | UNK SURF | SA | | D | D* | 347R | M | 6 | 0 | | | | | |
| 23:13:17 | 12 | 12 | UNK SURF | FC | | | FCS | 321TP | L | 0 | 0 | 12 | 343 | 13 | S158 | 246 |
| 23:13:17 | 13 | 13 | UNK SURF | FC | | | FCS | 003TP | L | 0 | 0 | 8 | 10 | 11 | S173 | 59 |
| 23:13:32 | 0 | 12 | UNK SURF | SA | | D | C* | 302R | M | 1 | 0 | | | | | |
| 23:13:32 | 0 | 13 | UNK SURF | SA | | D | D* | 347R | M | 6 | 0 | | | | | |
| 23:13:32 | 12 | 12 | UNK SURF | FC | | | FCS | 321TP | L | 0 | 0 | 12 | 343 | 13 | S158 | 246 |
| 23:13:32 | 13 | 13 | UNK SURF | FC | | | FCS | 003TP | L | 0 | 0 | 8 | 10 | 11 | S172 | 58 |

(b-1)



Enclosure: 1

[redacted] UNCLASSIFIED

# SONAR LOG

(b-1)

09 Feb 2001 23:13:47

| | |
|---|---|
| HULL # | SSN772 PLATFORM: USS uss greeneville |
| SONAR SYS: | AN/BSY-1, AN/BQQ-10, , |
| MISSION: | |

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB P\S | RANGE RATE |
| 23:13:47 | 0 | 12 | UNK SURF | SA | | D | C* | 302R | M | 1 | 0 | | | | | |
| 23:13:47 | 0 | 13 | UNK SURF | SA | 4 | D | D* | 347R | M | 5 | 0 | | | | | |
| 23:13:47 | 12 | 12 | UNK SURF | FC | * | | FCS | 322TP | L | 0 | 0 | 12 | 345 | 13 | S157 | 239 |
| 23:13:47 | 13 | 13 | UNK SURF | FC | | | FCS | 003TP | L | 0 | 0 | 8 | 10 | 11 | S172 | 59 |
| 23:14:02 | 0 | 12 | UNK SURF | SA | | D | C* | 302R | M | 1 | 0 | | | | | |
| 23:14:02 | 0 | 13 | UNK SURF | SA | | D | D* | 348R | M | 6 | 0 | | | | | |
| 23:14:02 | 12 | 12 | UNK SURF | FC | | | FCS | 322TP | L | 0 | 0 | 12 | 345 | 13 | S157 | 239 |
| 23:14:02 | 13 | 13 | UNK SURF | FC | | | FCS | 007TP | R | 0 | 0 | 15 | 24 | 11 | S163 | 30 |
| 23:14:16 | 0 | 12 | UNK SURF | SA | | D | C* | 302R | M | 0 | 0 | | | | | |
| 23:14:16 | 0 | 13 | UNK SURF | SA | | D | D* | 348R | M | 6 | 0 | | | | | |
| 23:14:16 | 12 | 12 | UNK SURF | FC | | | FCS | 322TP | L | 0 | 0 | 12 | 345 | 13 | S157 | 240 |
| 23:14:16 | 13 | 13 | UNK SURF | FC | | | FCS | 007TP | R | 0 | 0 | 15 | 24 | 11 | S163 | 30 |
| 23:14:31 | 0 | 12 | UNK SURF | SA | | D | C* | 301R | M | -1 | 0 | | | | | |
| 23:14:31 | 0 | 13 | UNK SURF | SA | | D | D* | 347R | M | 7 | 0 | | | | | |
| 23:14:31 | 12 | 12 | UNK SURF | FC | | | FCS | 322TP | L | 0 | 0 | 12 | 345 | 13 | S156 | 241 |
| 23:14:31 | 13 | 13 | UNK SURF | FC | | | FCS | 007TP | R | 0 | 0 | 15 | 24 | 11 | S163 | 30 |
| 23:14:46 | 0 | 12 | UNK SURF | SA | | D | C* | 301R | M | 1 | 0 | | | | | |
| 23:14:46 | 0 | 13 | UNK SURF | SA | | D | D* | 347R | M | 7 | 0 | | | | | |
| 23:14:46 | 12 | 12 | UNK SURF | FC | | | FCS | 321TP | L | 0 | 0 | 12 | 345 | 13 | S156 | 241 |
| 23:14:46 | 13 | 13 | UNK SURF | FC | | | FCS | 007TP | R | 0 | 0 | 15 | 24 | 11 | S163 | 29 |
| 23:15:02 | 0 | 12 | UNK SURF | SA | | D | C* | 301R | M | 4 | 0 | | | | | |
| 23:15:02 | 0 | 13 | UNK SURF | SA | | D | D* | 348R | M | 6 | 0 | | | | | |
| 23:15:02 | 12 | 12 | UNK SURF | FC | | | FCS | 321TP | L | 0 | 0 | 12 | 345 | 13 | S156 | 240 |
| 23:15:02 | 13 | 13 | UNK SURF | FC | | | FCS | 007TP | R | 0 | 0 | 15 | 24 | 11 | S163 | 29 |
| 23:15:17 | 0 | 12 | UNK SURF | SA | | D | C* | 301R | M | 1 | 0 | | | | | |
| 23:15:17 | 0 | 13 | UNK SURF | SA | | D | D* | 347R | M | 7 | 0 | | | | | |
| 23:15:17 | 12 | 12 | UNK SURF | FC | | | FCS | 321TP | L | 0 | 0 | 12 | 345 | 13 | S156 | 240 |
| 23:15:17 | 13 | 13 | UNK SURF | FC | | | FCS | 007TP | R | 0 | 0 | 15 | 24 | 11 | S163 | 27 |
| 23:15:32 | 0 | 12 | UNK SURF | SA | | D | C* | 301R | M | 2 | 0 | | | | | |
| 23:15:32 | 0 | 13 | UNK SURF | SA | | D | D* | 347R | M | 7 | 0 | | | | | |

(b-1)



Enclosure: 1

[redacted] UNCLASSIFIED SONAR LOG

09 Feb 2001 23:15:32

(b-1)

| HULL # | SSN772 | PLATFORM: | USS uss greeneville |
|---|---|---|---|
| SONAR SYS: | AN/BSY-1, AN/BQQ-10, , | | |
| MISSION: | | | |

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB P\S | RANGE RATE |
| 23:15:32 | 12 | 12 | UNK SURF | FC | | | FCS | 321TP | L | 0 | 0 | 12 | 345 | 13 | S156 | 241 |
| 23:15:32 | 13 | 13 | UNK SURF | FC | | | FCS | 007TP | R | 0 | 0 | 15 | 24 | 11 | S163 | 27 |
| 23:15:47 | 0 | 12 | UNK SURF | SA | | D | C* | 301R | M | 5 | 0 | | | | | |
| 23:15:47 | 0 | 13 | UNK SURF | SA | | D | D* | 347R | M | 6 | 0 | | | | | |
| 23:15:47 | 12 | 12 | UNK SURF | FC | | | FCS | 321TP | L | 0 | 0 | 12 | 345 | 13 | S156 | 240 |
| 23:15:47 | 13 | 13 | UNK SURF | FC | | | FCS | 007TP | R | 0 | 0 | 15 | 24 | 11 | S163 | 22 |
| 23:16:02 | 0 | 12 | UNK SURF | SA | | D | C* | 302R | M | 3 | 0 | | | | | |
| 23:16:02 | 0 | 13 | UNK SURF | SA | | D | D* | 347R | M | 5 | 0 | | | | | |
| 23:16:02 | 12 | 12 | UNK SURF | FC | | | FCS | 321TP | L | 0 | 0 | 12 | 345 | 13 | S156 | 231 |
| 23:16:02 | 13 | 13 | UNK SURF | FC | | | FCS | 007TP | R | 0 | 0 | 15 | 24 | 11 | S163 | 3 |
| 23:16:17 | 0 | 12 | UNK SURF | SA | | D | C* | 301R | M | 4 | 0 | | | | | |
| 23:16:17 | 0 | 13 | UNK SURF | SA | | D | D* | 346R | M | 7 | 0 | | | | | |
| 23:16:17 | 12 | 12 | UNK SURF | FC | | | FCS | 321TP | L | 0 | 0 | 12 | 345 | 13 | S156 | 221 |
| 23:16:17 | 13 | 13 | UNK SURF | FC | | | FCS | 007TP | R | 0 | 0 | 15 | 24 | 11 | S163 | 27 |
| 23:16:32 | 0 | 12 | UNK SURF | SA | | D | C* | 300R | M | -9 | 0 | | | | | |
| 23:16:32 | 0 | 13 | UNK SURF | SA | | D | D* | 346R | M | -8 | 0 | | | | | |
| 23:16:32 | 12 | 12 | UNK SURF | FC | | | FCS | 320TP | L | 0 | 0 | 14 | 343 | 14 | S158 | 239 |
| 23:16:32 | 13 | 13 | UNK SURF | FC | | | FCS | 007TP | M | 0 | 0 | 15 | 24 | 11 | S163 | 41 |
| 23:16:46 | 0 | 12 | UNK SURF | SA | | D | C* | 300R | M | -10 | 0 | | | | | |
| 23:16:46 | 0 | 13 | UNK SURF | SA | | D | D* | 346R | M | -4 | 0 | | | | | |
| 23:16:46 | 12 | 12 | UNK SURF | FC | | | FCS | 320TP | L | 0 | 0 | 14 | 343 | 14 | S158 | 227 |
| 23:16:46 | 13 | 13 | UNK SURF | FC | | | FCS | 007TP | R | 0 | 0 | 15 | 24 | 11 | S163 | 54 |
| 23:17:01 | 0 | 12 | UNK SURF | SA | | D | C* | 300R | M | -7 | 0 | | | | | |
| 23:17:01 | 0 | 13 | UNK SURF | SA | | D | D* | 347R | M | -9 | 0 | | | | | |
| 23:17:01 | 12 | 12 | UNK SURF | FC | | | FCS | 320TP | L | 0 | 0 | 14 | 343 | 14 | S158 | 212 |
| 23:17:01 | 13 | 13 | UNK SURF | FC | | | FCS | 008TP | R | 0 | 0 | 15 | 24 | 11 | S163 | 73 |
| 23:17:17 | 0 | 12 | UNK SURF | SA | | D | C* | 301R | M | -3 | 0 | | | | | |
| 23:17:17 | 0 | 13 | UNK SURF | SA | | D | D* | 348R | M | -5 | 0 | | | | | |
| 23:17:17 | 12 | 12 | UNK SURF | FC | | | FCS | 320TP | L | 0 | 0 | 15 | 343 | 14 | S157 | 192 |
| 23:17:17 | 13 | 13 | UNK SURF | FC | | | FCS | 008TP | R | 0 | 0 | 15 | 24 | 11 | S163 | 96 |

(b-1)

[redacted] UNCLASSIFIED

# SONAR LOG

09 Feb 2001 23:17:32

(b-1)

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB | P\S | RANGE RATE |
| 23:17:32 | 0 | 12 | UNK SURF | SA | [redacted] | D | C* | 308R | M | 1 | 0 | | | | | | |
| 23:17:32 | 0 | 13 | UNK SURF | SA | 4 | D | D* | 356R | M | 1 | 0 | | | | | | |
| 23:17:32 | 12 | 12 | UNK SURF | FC | * | | FCS | 320TP | L | 0 | 0 | 15 | 343 | 14 | S157 | | 146 |
| 23:17:32 | 13 | 13 | UNK SURF | FC | | | FCS | 008TP | R | 0 | 0 | 15 | 24 | 11 | S164 | | 113 |
| 23:17:47 | 0 | 12 | UNK SURF | SA | | D | C* | 319R | M | 5 | 0 | | | | | | |
| 23:17:47 | 0 | 13 | UNK SURF | SA | | D | D* | 007R | M | 4 | 0 | | | | | | |
| 23:17:47 | 12 | 12 | UNK SURF | FC | | | FCS | 320TP | L | 0 | 0 | 15 | 343 | 14 | S157 | | 77 |
| 23:17:47 | 13 | 13 | UNK SURF | FC | | | FCS | 008TP | R | 0 | 0 | 15 | 24 | 11 | S164 | | 109 |
| 23:18:02 | 0 | 12 | UNK SURF | SA | | D | C* | 321R | M | 1 | 0 | | | | | | |
| 23:18:02 | 0 | 13 | UNK SURF | SA | | D | D* | 008R | M | 1 | 0 | | | | | | |
| 23:18:02 | 12 | 12 | UNK SURF | FC | | | FCS | 319TP | L | 0 | 0 | 15 | 343 | 14 | S157 | | 78 |
| 23:18:02 | 13 | 13 | UNK SURF | FC | | | FCS | 008TP | R | 0 | 0 | 15 | 24 | 11 | S164 | | 100 |
| 23:18:17 | 0 | 12 | UNK SURF | SA | | D | C* | 321R | M | -7 | 0 | | | | | | |
| 23:18:17 | 0 | 13 | UNK SURF | SA | | D | D* | 008R | M | -4 | 0 | | | | | | |
| 23:18:17 | 12 | 12 | UNK SURF | FC | | | FCS | 319TP | L | 0 | 0 | 15 | 343 | 14 | S157 | | 84 |
| 23:18:17 | 13 | 13 | UNK SURF | FC | | | FCS | 008TP | R | 0 | 0 | 15 | 24 | 11 | S164 | | 90 |
| 23:18:32 | 0 | 12 | UNK SURF | SA | | D | C* | 318R | M | -7 | 0 | | | | | | |
| 23:18:32 | 0 | 13 | UNK SURF | SA | | D | D* | 011R | M | -11 | 0 | | | | | | |
| 23:18:32 | 12 | 12 | UNK SURF | FC | | | FCS | 319TP | L | 0 | 0 | 15 | 343 | 14 | S157 | | 81 |
| 23:18:32 | 13 | 13 | UNK SURF | FC | | | FCS | 008TP | R | 0 | 0 | 15 | 24 | 11 | S164 | | 103 |
| 23:18:47 | 0 | 12 | UNK SURF | SA | | D | C* | 317R | M | -3 | 0 | | | | | | |
| 23:18:47 | 12 | 12 | UNK SURF | FC | | | FCS | 319TP | L | 0 | 0 | 15 | 343 | 14 | S157 | | 96 |
| 23:19:02 | 0 | 12 | UNK SURF | SA | | D | C* | 319R | M | 2 | 0 | | | | | | |
| 23:19:02 | 0 | 13 | UNK SURF | SA | | D | D* | 007R | M | -1 | 0 | | | | | | |
| 23:19:02 | 12 | 12 | UNK SURF | FC | | | FCS | 319TP | L | 0 | 0 | 15 | 343 | 14 | S156 | | 93 |
| 23:19:02 | 13 | 13 | UNK SURF | FC | | | FCS | 008TP | R | 0 | 0 | 15 | 24 | 11 | S164 | | 92 |
| 23:19:17 | 0 | 12 | UNK SURF | SA | | D | C* | 321R | M | 1 | 0 | | | | | | |
| 23:19:17 | 0 | 13 | UNK SURF | SA | | D | D* | 007R | M | 0 | 0 | | | | | | |
| 23:19:17 | 12 | 12 | UNK SURF | FC | | | FCS | 319TP | L | 0 | 0 | 15 | 343 | 14 | S156 | | 90 |
| 23:19:32 | 0 | 12 | UNK SURF | SA | | D | C* | 320R | M | -2 | 0 | | | | | | |

(b-1)



Enclosure: 1

[redacted] UNCLASSIFIED

# SONAR LOG

09 Feb 2001 23:19:32

(b-1)

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB | P\S | RANGE RATE |
| 23:19:32 | 0 | 13 | UNK SURF | SA | | D | D* | 007R | M | 7 | 0 | | | | | | |
| 23:19:32 | 12 | 12 | UNK SURF | FC | | | FCS | 319TP | L | 0 | 0 | 15 | 343 | 14 | S156 | | 101 |
| 23:19:32 | 13 | 13 | UNK SURF | FC | | | FCS | 009TP | R | 0 | 0 | 15 | 24 | 11 | S165 | | 76 |
| 23:19:47 | 0 | 12 | UNK SURF | SA | | D | C* | 319R | M | -9 | 0 | | | | | | |
| 23:19:47 | 0 | 13 | UNK SURF | SA | | D | D* | 006R | M | -3 | 0 | | | | | | |
| 23:19:47 | 12 | 12 | UNK SURF | FC | | | FCS | 319TP | L | 0 | 0 | 15 | 343 | 14 | S156 | | 113 |
| 23:19:47 | 13 | 13 | UNK SURF | FC | | | FCS | 009TP | R | 0 | 0 | 15 | 24 | 11 | S165 | | 67 |
| 23:20:02 | 0 | 12 | UNK SURF | SA | | D | C* | 320R | M | -12 | 0 | | | | | | |
| 23:20:02 | 0 | 13 | UNK SURF | SA | | D | D* | 008R | M | -2 | 0 | | | | | | |
| 23:20:02 | 12 | 12 | UNK SURF | FC | | | FCS | 319TP | L | 0 | 0 | 15 | 343 | 14 | S156 | | 109 |
| 23:20:02 | 13 | 13 | UNK SURF | FC | | | FCS | 009TP | R | 0 | 0 | 15 | 24 | 11 | S165 | | 58 |
| 23:20:17 | 0 | 12 | UNK SURF | SA | | D | C* | 322R | M | -6 | 0 | | | | | | |
| 23:20:17 | 0 | 13 | UNK SURF | SA | | D | D* | 011R | M | 2 | 0 | | | | | | |
| 23:20:17 | 12 | 12 | UNK SURF | FC | | | FCS | 318TP | L | 0 | 0 | 15 | 343 | 14 | S156 | | 87 |
| 23:20:17 | 13 | 13 | UNK SURF | FC | | | FCS | 009TP | R | 0 | 0 | 15 | 24 | 11 | S165 | | 73 |
| 23:20:32 | 0 | 12 | UNK SURF | SA | | D | C* | 323R | M | -4 | 0 | | | | | | |
| 23:20:32 | 0 | 13 | UNK SURF | SA | | D | D* | 012R | M | 1 | 0 | | | | | | |
| 23:20:32 | 12 | 12 | UNK SURF | FC | | | FCS | 318TP | L | 0 | 0 | 15 | 343 | 14 | S156 | | 67 |
| 23:20:32 | 13 | 13 | UNK SURF | FC | | | FCS | 009TP | R | 0 | 0 | 15 | 24 | 11 | S165 | | 87 |
| 23:20:47 | 0 | 12 | UNK SURF | SA | | D | C* | 320R | M | 2 | 0 | | | | | | |
| 23:20:47 | 0 | 13 | UNK SURF | SA | | D | D* | 009R | M | 4 | 0 | | | | | | |
| 23:20:47 | 12 | 12 | UNK SURF | FC | | | FCS | 318TP | L | 0 | 0 | 15 | 343 | 14 | S156 | | 77 |
| 23:20:47 | 13 | 13 | UNK SURF | FC | | | FCS | 010TP | R | 0 | 0 | 15 | 24 | 11 | S165 | | 99 |
| 23:21:02 | 0 | 12 | UNK SURF | SA | | D | C* | 319R | M | -2 | 0 | | | | | | |
| 23:21:02 | 0 | 13 | UNK SURF | SA | | D | D* | 008R | M | 5 | 0 | | | | | | |
| 23:21:02 | 12 | 12 | UNK SURF | FC | | | FCS | 318TP | L | 0 | 0 | 15 | 343 | 14 | S156 | | 97 |
| 23:21:02 | 13 | 13 | UNK SURF | FC | | | FCS | 010TP | R | 0 | 0 | 15 | 24 | 11 | S166 | | 78 |
| 23:21:18 | 0 | 12 | UNK SURF | SA | | D | C* | 319R | M | -7 | 0 | | | | | | |
| 23:21:18 | 0 | 13 | UNK SURF | SA | | D | D* | 047R | M | -14 | 0 | | | | | | |
| 23:21:18 | 12 | 12 | UNK SURF | FC | | | FCS | 318TP | L | 0 | 0 | 15 | 343 | 14 | S156 | | 124 |

(b-1)



Enclosure: 1

[redacted] UNCLASSIFIED

# SONAR LOG

09 Feb 2001 23:21:18

(6-1)

| HULL # | SSN772 | PLATFORM: USS uss greeneville |
|---|---|---|
| SONAR SYS: | AN/BSY-1, AN/BQQ-10, , | |
| MISSION: | | |

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | | | SOLUTION | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMENT | SNR | [redacted] | | RANGE (kyd) | COURSE | SPEED | AOB P\S | RANGE RATE |
| 23:21:18 | 13 | 13 | UNK SURF | FC | | | FCS | 010TP | R | 0 | 0 | | 15 | 24 | 11 | S166 | 45 |
| 23:21:32 | 0 | 12 | UNK SURF | SA | 4 | D | C* | 318R | M | -7 | 0 | | | | | | |
| 23:21:32 | 0 | 13 | UNK SURF | SA | * | D | D* | 049R | M | -23 | 0 | | | | | | |
| 23:21:32 | 12 | 12 | UNK SURF | FC | | | FCS | 318TP | L | 0 | 0 | | 15 | 343 | 14 | S156 | 123 |
| 23:21:32 | 13 | 13 | UNK SURF | FC | | | FCS | 010TP | R | 0 | 0 | | 15 | 24 | 11 | S166 | 47 |
| 23:21:47 | 0 | 12 | UNK SURF | SA | | D | C* | 317R | M | 0 | 0 | | | | | | |
| 23:21:47 | 0 | 13 | UNK SURF | SA | | D | D* | 007R | M | 3 | 0 | | | | | | |
| 23:21:47 | 12 | 12 | UNK SURF | FC | | | FCS | 318TP | L | 0 | 0 | | 15 | 343 | 14 | S155 | 135 |
| 23:21:47 | 13 | 13 | UNK SURF | FC | | | FCS | 010TP | R | 0 | 0 | | 15 | 24 | 11 | S166 | 41 |
| 23:22:02 | 0 | 12 | UNK SURF | SA | | D | C* | 319R | M | 1 | 0 | | | | | | |
| 23:22:02 | 0 | 13 | UNK SURF | SA | | D | D* | 010R | M | 5 | 0 | | | | | | |
| 23:22:02 | 12 | 12 | UNK SURF | FC | | | FCS | 318TP | L | 0 | 0 | | 15 | 343 | 14 | S155 | 135 |
| 23:22:17 | 0 | 12 | UNK SURF | SA | | D | C* | 319R | M | -2 | 0 | | | | | | |
| 23:22:17 | 0 | 13 | UNK SURF | SA | | D | D* | 010R | M | 2 | 0 | | | | | | |
| 23:22:17 | 12 | 12 | UNK SURF | FC | | | FCS | 318TP | L | 0 | 0 | | 15 | 343 | 14 | S155 | 135 |
| 23:22:17 | 13 | 13 | UNK SURF | FC | | | FCS | 010TP | R | 0 | 0 | | 15 | 24 | 11 | S166 | 16 |
| 23:22:32 | 0 | 12 | UNK SURF | SA | | D | C* | 319R | M | 1 | 0 | | | | | | |
| 23:22:32 | 0 | 13 | UNK SURF | SA | | D | D* | 010R | M | 1 | 0 | | | | | | |
| 23:22:32 | 12 | 12 | UNK SURF | FC | | | FCS | 318TP | L | 0 | 0 | | 15 | 343 | 14 | S155 | 143 |
| 23:22:32 | 13 | 13 | UNK SURF | FC | | | FCS | 011TP | R | 0 | 0 | | 15 | 24 | 11 | S166 | 7 |
| 23:22:47 | 0 | 12 | UNK SURF | SA | | D | C* | 319R | M | 3 | 0 | | | | | | |
| 23:22:47 | 0 | 13 | UNK SURF | SA | | D | D* | 011R | M | 1 | 0 | | | | | | |
| 23:22:47 | 12 | 12 | UNK SURF | FC | | | FCS | 318TP | L | 0 | 0 | | 15 | 343 | 14 | S155 | 143 |
| 23:22:47 | 13 | 13 | UNK SURF | FC | | | FCS | 011TP | R | 0 | 0 | | 15 | 24 | 11 | S167 | 13 |
| 23:23:03 | 0 | 12 | UNK SURF | SA | | D | C* | 318R | M | 1 | 0 | | | | | | |
| 23:23:03 | 0 | 13 | UNK SURF | SA | | D | D* | 010R | M | 1 | 0 | | | | | | |
| 23:23:03 | 12 | 12 | UNK SURF | FC | | | FCS | 318TP | L | 0 | 0 | | 15 | 343 | 14 | S155 | 118 |
| 23:23:03 | 13 | 13 | UNK SURF | FC | | | FCS | 011TP | R | 0 | 0 | | 15 | 24 | 11 | S167 | 52 |
| 23:23:18 | 0 | 12 | UNK SURF | SA | | D | C* | 318R | M | -3 | 0 | | | | | | |
| 23:23:18 | 0 | 13 | UNK SURF | SA | | D | D* | 012R | M | 3 | 0 | | | | | | |

[redacted] UNCLASSIFIED

# SONAR LOG

09 Feb 2001 23:23:18

(b-1)

| | |
|---|---|
| HULL # | SSN772 PLATFORM: USS uss greeneville |
| SONAR SYS: | AN/BSY-1, AN/BQQ-10, , |
| MISSION: | |

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB P\S | RANGE RATE |
| 23:23:18 | 12 | 12 | UNK SURF | FC | [redacted] | | FCS | 318TP | L | 0 | 0 | 15 | 343 | 14 | S155 | 50 |
| 23:23:18 | 13 | 13 | UNK SURF | FC | [redacted] | | FCS | 011TP | R | 0 | 0 | 15 | 24 | 11 | S167 | 145 |
| 23:23:33 | 0 | 12 | UNK SURF | SA | [redacted] | D | C* | 320R | M | -4 | 0 | | | | | |
| 23:23:33 | 0 | 13 | UNK SURF | SA | | D | D* | 014R | M | 1 | 0 | | | | | |
| 23:23:33 | 12 | 12 | UNK SURF | FC | | | FCS | 317TP | L | 0 | 0 | 15 | 343 | 14 | S155 | 35 |
| 23:23:33 | 13 | 13 | UNK SURF | FC | | | FCS | 011TP | R | 0 | 0 | 15 | 24 | 11 | S167 | 245 |
| 23:23:48 | 0 | 12 | UNK SURF | SA | | D | C* | 319R | M | -5 | 0 | | | | | |
| 23:23:48 | 0 | 13 | UNK SURF | SA | | D | D* | 013R | M | -4 | 0 | | | | | |
| 23:23:48 | 12 | 12 | UNK SURF | FC | | | FCS | 317TP | L | 0 | 0 | 15 | 343 | 14 | S155 | 103 |
| 23:23:48 | 13 | 13 | UNK SURF | FC | | | FCS | 011TP | R | 0 | 0 | 15 | 24 | 11 | S167 | 338 |
| 23:24:02 | 0 | 12 | UNK SURF | SA | | D | C* | 320R | M | -8 | 0 | | | | | |
| 23:24:02 | 0 | 13 | UNK SURF | SA | | D | D* | 010R | M | 0 | 0 | | | | | |
| 23:24:02 | 12 | 12 | UNK SURF | FC | | | FCS | 317TP | L | 0 | 0 | 15 | 343 | 14 | S154 | 160 |
| 23:24:02 | 13 | 13 | UNK SURF | FC | | | FCS | 012TP | R | 0 | 0 | 15 | 24 | 11 | S168 | 409 |
| 23:24:17 | 0 | 12 | UNK SURF | SA | | D | C* | 320R | M | -9 | 0 | | | | | |
| 23:24:17 | 0 | 13 | UNK SURF | SA | | D | D* | 010R | M | -8 | 0 | | | | | |
| 23:24:17 | 12 | 12 | UNK SURF | FC | | | FCS | 317TP | L | 0 | 0 | 15 | 343 | 14 | S154 | 199 |
| 23:24:17 | 13 | 13 | UNK SURF | FC | | | FCS | 012TP | R | 0 | 0 | 15 | 24 | 11 | S168 | 465 |
| 23:24:32 | 0 | 12 | UNK SURF | SA | | D | C* | 325R | M | -11 | 0 | | | | | |
| 23:24:32 | 0 | 13 | UNK SURF | SA | | D | D* | 021R | M | -4 | 0 | | | | | |
| 23:24:32 | 12 | 12 | UNK SURF | FC | | | FCS | 316TP | L | 0 | 0 | 15 | 343 | 14 | S154 | 295 |
| 23:24:32 | 13 | 13 | UNK SURF | FC | | | FCS | 012TP | R | 0 | 0 | 14 | 24 | 11 | S168 | 480 |
| 23:24:47 | 0 | 12 | UNK SURF | SA | | D | C* | 321R | M | -8 | 0 | | | | | |
| 23:24:47 | 0 | 13 | UNK SURF | SA | | D | D* | 015R | M | -11 | 0 | | | | | |
| 23:24:47 | 12 | 12 | UNK SURF | FC | | | FCS | 316TP | L | 0 | 0 | 15 | 343 | 14 | S153 | 280 |
| 23:24:47 | 13 | 13 | UNK SURF | FC | | | FCS | 012TP | R | 0 | 0 | 14 | 24 | 11 | S168 | 536 |
| 23:25:02 | 0 | 12 | UNK SURF | SA | | D | C* | 319R | M | -13 | 0 | | | | | |
| 23:25:02 | 0 | 13 | UNK SURF | SA | | D | D* | 008R | M | -3 | 0 | | | | | |
| 23:25:02 | 12 | 12 | UNK SURF | FC | | | FCS | 315TP | L | 0 | 0 | 15 | 343 | 14 | S153 | 266 |
| 23:25:02 | 13 | 13 | UNK SURF | FC | | | FCS | 013TP | R | 0 | 0 | 14 | 24 | 11 | S169 | 576 |

(b-1)



Enclosure: 1

[redacted] UNCLASSIFIED

# SONAR LOG

09 Feb 2001 23:28:02

(b2)

| | |
|---|---|
| HULL # | SSN772 PLATFORM: USS uss greeneville |
| SONAR SYS: | AN/BSY-1, AN/BQQ-10, , |
| MISSION: | |

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB P\S | RANGE RATE |
| 23:28:02 | 0 | 13 | UNK SURF | SA | [redacted] | D | D* | 021R | M | 0 | 0 | | | | | |
| 23:28:02 | 13 | 13 | UNK SURF | FC | 4 | | FCS | 013TP | L | 0 | 0 | 14 | 24 | 11 | S169 | 477 |
| 23:28:17 | 0 | 12 | UNK SURF | SA | [redacted] | D | C* | 341R | M | -17 | 0 | | | | | |
| 23:28:17 | 0 | 13 | UNK SURF | SA | | D | D* | 025R | M | 0 | 0 | | | | | |
| 23:28:17 | 12 | 12 | UNK SURF | FC | | | FCS | 315TP | L | 0 | 0 | 15 | 343 | 14 | S153 | 130 |
| 23:28:32 | 0 | 13 | UNK SURF | SA | | D | D* | 025R | M | 0 | 0 | | | | | |
| 23:28:32 | 13 | 13 | UNK SURF | FC | | | FCS | 010TP | R | 0 | 0 | 14 | 24 | 11 | S166 | 461 |
| 23:28:47 | 0 | 13 | UNK SURF | SA | | D | D* | 026R | M | -5 | 0 | | | | | |
| 23:28:47 | 13 | 13 | UNK SURF | FC | | | FCS | 010TP | R | 0 | 0 | 14 | 24 | 11 | S166 | 493 |
| 23:29:03 | 0 | 13 | UNK SURF | SA | | D | D* | 359R | M | -13 | 0 | | | | | |
| 23:29:03 | 13 | 13 | UNK SURF | FC | | | FCS | 011TP | R | 0 | 0 | 14 | 24 | 11 | S167 | 591 |
| 23:29:18 | 0 | 13 | UNK SURF | SA | | D | D* | 295R | M | -30 | 0 | | | | | |
| 23:29:18 | 13 | 13 | UNK SURF | FC | | | FCS | 011TP | L | 0 | 0 | 14 | 24 | 11 | S167 | 31 |
| 23:29:33 | 0 | 13 | UNK SURF | SA | | D | D* | 246R | M | -13 | 0 | | | | | |
| 23:29:33 | 13 | 13 | UNK SURF | FC | | | FCS | 010TP | L | 0 | 0 | 14 | 24 | 11 | S166 | 452 |
| 23:29:47 | 0 | 13 | UNK SURF | SA | | D | D* | 234R | M | -30 | 0 | | | | | |
| 23:29:47 | 13 | 13 | UNK SURF | FC | | | FCS | 009TP | L | 0 | 0 | 14 | 24 | 11 | S165 | 542 |
| 23:31:33 | 0 | 13 | UNK SURF | SA | | D | D* | 027R | M | -30 | 0 | | | | | |
| 23:31:33 | 13 | 13 | UNK SURF | FC | | | FCS | 009TP | L | 0 | 0 | 14 | 24 | 11 | S165 | 577 |
| 23:31:48 | 0 | 13 | UNK SURF | SA | | D | D* | 028R | M | -8 | 0 | | | | | |
| 23:32:03 | 0 | 12 | UNK SURF | SA | | D | C* | 337R | M | -23 | 0 | | | | | |
| 23:32:03 | 0 | 13 | UNK SURF | SA | | D | D* | 030R | M | -7 | 0 | | | | | |
| 23:32:03 | 13 | 13 | UNK SURF | FC | | | FCS | 007TP | R | 0 | 0 | 15 | 24 | 11 | S163 | 120 |
| 23:32:17 | 0 | 12 | UNK SURF | SA | | D | C* | 333R | M | -6 | 0 | | | | | |
| 23:32:17 | 0 | 13 | UNK SURF | SA | | D | D* | 033R | M | -8 | 0 | | | | | |
| 23:32:17 | 12 | 12 | UNK SURF | FC | | | FCS | 311TP | R | 0 | 0 | 18 | 343 | 14 | S149 | 43 |
| 23:32:17 | 13 | 13 | UNK SURF | FC | | | FCS | 007TP | R | 0 | 0 | 15 | 24 | 11 | S163 | 91 |
| 23:32:32 | 0 | 12 | UNK SURF | SA | | D | C* | 333R | M | -9 | 0 | | | | | |
| 23:32:32 | 12 | 12 | UNK SURF | FC | | | FCS | 311TP | R | 0 | 0 | 18 | 343 | 14 | S149 | 16 |
| 23:32:48 | 0 | 12 | UNK SURF | SA | | D | C* | 333R | M | -9 | 0 | | | | | |

(b-1)



Enclosure: 1

[redacted]

09 Feb 2001 23:32:48

# SONAR LOG

(b-1)

HULL # SSN772 PLATFORM: USS uss greeneville

SONAR SYS: AN/BSY-1, AN/BQQ-10, ,

MISSION:

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB | P\S | RANGE RATE |
| 23:32:48 | 0 | 13 | UNK SURF | SA | [redacted] | D | D* | 036R | M | 10 | 0 | | | | | | |
| 23:32:48 | 12 | 12 | UNK SURF | FC | 4 | | FCS | 311TP | R | 0 | 0 | 18 | 343 | 14 | S149 | | 8 |
| 23:32:48 | 13 | 13 | UNK SURF | FC | * | | FCS | 007TP | R | 0 | 0 | 15 | 24 | 11 | S163 | | 72 |
| 23:33:03 | 0 | 14 | UNK SURF | SA | | D | B* | 022R | M | -30 | 0 | | | | | | |
| 23:33:03 | 0 | 12 | UNK SURF | SA | | D | C* | 332R | M | -2 | 0 | | | | | | |
| 23:33:03 | 0 | 13 | UNK SURF | SA | | D | D* | 037R | M | 9 | 0 | | | | | | |
| 23:33:03 | 12 | 12 | UNK SURF | FC | | | FCS | 311TP | R | 0 | 0 | 18 | 343 | 14 | S149 | | 26 |
| 23:33:18 | 0 | 14 | UNK SURF | SA | | D | B* | 006R | M | 2 | 0 | | | | | | |
| 23:33:18 | 0 | 12 | UNK SURF | SA | | D | C* | 321R | M | -1 | 0 | | | | | | |
| 23:33:18 | 0 | 13 | UNK SURF | SA | | D | D* | 026R | M | 10 | 0 | | | | | | |
| 23:33:18 | 12 | 12 | UNK SURF | FC | | | FCS | 311TP | L | 0 | 0 | 18 | 343 | 14 | S149 | | 98 |
| 23:33:18 | 13 | 13 | UNK SURF | FC | | | FCS | 008TP | R | 0 | 0 | 15 | 24 | 11 | S164 | | 23 |
| 23:33:33 | 0 | 14 | UNK SURF | SA | | D | B* | 350R | M | -1 | 0 | | | | | | |
| 23:33:33 | 0 | 12 | UNK SURF | SA | | D | C* | 304R | M | -3 | 0 | | | | | | |
| 23:33:33 | 0 | 13 | UNK SURF | SA | | D | D* | 011R | M | 7 | 0 | | | | | | |
| 23:33:33 | 12 | 12 | UNK SURF | FC | | | FCS | 311TP | L | 0 | 0 | 19 | 343 | 14 | S149 | | 206 |
| 23:33:33 | 13 | 13 | UNK SURF | FC | | | FCS | 008TP | R | 0 | 0 | 15 | 24 | 11 | S164 | | 10 |
| 23:33:48 | 0 | 14 | UNK SURF | SA | | D | B* | 331R | M | -1 | 0 | | | | | | |
| 23:33:48 | 0 | 12 | UNK SURF | SA | | D | C* | 286R | M | -3 | 0 | | | | | | |
| 23:33:48 | 0 | 13 | UNK SURF | SA | | D | D* | 354R | M | 9 | 0 | | | | | | |
| 23:33:48 | 12 | 12 | UNK SURF | FC | | | FCS | 311TP | L | 0 | 0 | 19 | 343 | 14 | S149 | | 313 |
| 23:33:48 | 13 | 13 | UNK SURF | FC | | | FCS | 009TP | L | 0 | 0 | 15 | 24 | 11 | S164 | | 31 |
| 23:34:03 | 0 | 14 | UNK SURF | SA | | D | B* | 313R | M | 4 | 0 | | | | | | |
| 23:34:03 | 0 | 12 | UNK SURF | SA | | D | C* | 269R | M | 3 | 0 | | | | | | |
| 23:34:03 | 0 | 13 | UNK SURF | SA | | D | D* | 339R | M | 5 | 0 | | | | | | |
| 23:34:03 | 12 | 12 | UNK SURF | FC | | | FCS | 311TP | L | 0 | 0 | 19 | 343 | 14 | S149 | | 408 |
| 23:34:03 | 13 | 13 | UNK SURF | FC | | | FCS | 008TP | L | 0 | 0 | 15 | 24 | 11 | S164 | | 96 |
| 23:34:03 | 14 | 14 | UNK SURF | FC | | | FCS | 358TP | L | 0 | 0 | 8 | 195 | 12 | P017 | | 597 |
| 23:34:18 | 0 | 14 | UNK SURF | SA | | D | B* | 299R | M | 0 | 0 | | | | | | |
| 23:34:18 | 0 | 12 | UNK SURF | SA | | D | C* | 254R | M | 5 | 0 | | | | | | |

(b-1)

[redacted] UNCLASSIFIED

# SONAR LOG

09 Feb 2001 23:34:18

(b-1)

| HULL # | SSN772 | PLATFORM: USS uss greeneville |
|---|---|---|
| SONAR SYS: | AN/BSY-1, AN/BQQ-10, , | |
| MISSION: | | |

| TIME | MASTER # | SONAR # | CONTACT CLASS | SYSTEM | | | | DIRECTION | | | [redacted] | SOLUTION | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SENSOR | ARRAY | PROCSSR | TRACKER | BRG | MOVEMNT | SNR | | RANGE (kyd) | COURSE | SPEED | AOB P\S | RANGE RATE |
| 23:34:18 | 0 | 13 | UNK SURF | SA | | D | D* | 323R | M | 6 | 0 | | | | | |
| 23:34:18 | 13 | 13 | UNK SURF | FC | 4 | | FCS | 008TP | L | 0 | 0 | 15 | 24 | 11 | S164 | 165 |
| 23:34:18 | 14 | 14 | UNK SURF | FC | * | | FCS | 357TP | L | 0 | 0 | 8 | 195 | 12 | P017 | 516 |
| 23:34:18 | 12 | 12 | UNK SURF | FC | | | FCS | 311TP | L | 0 | 0 | 19 | 343 | 14 | S149 | 486 |
| 23:34:33 | 0 | 14 | UNK SURF | SA | | D | B* | 285R | M | 0 | 0 | | | | | |
| 23:34:33 | 0 | 12 | UNK SURF | SA | | D | C* | 240R | M | 6 | 0 | | | | | |
| 23:34:33 | 0 | 13 | UNK SURF | SA | | D | D* | 309R | M | 4 | 0 | | | | | |
| 23:34:33 | 13 | 13 | UNK SURF | FC | | | FCS | 008TP | L | 0 | 0 | 15 | 24 | 11 | S164 | 234 |
| 23:34:33 | 14 | 14 | UNK SURF | FC | | | FCS | 356TP | L | 0 | 0 | 8 | 195 | 12 | P018 | 439 |
| 23:34:33 | 12 | 12 | UNK SURF | FC | | | FCS | 311TP | M | 0 | 0 | 19 | 343 | 14 | S149 | 547 |
| 23:34:48 | 0 | 14 | UNK SURF | SA | | D | B* | 271R | M | 0 | 0 | | | | | |
| 23:34:48 | 0 | 12 | UNK SURF | SA | | D | C* | 230R | M | -1 | 0 | | | | | |
| 23:34:48 | 0 | 13 | UNK SURF | SA | | D | D* | 295R | M | 3 | 0 | | | | | |
| 23:34:48 | 14 | 14 | UNK SURF | FC | | | FCS | 356TP | L | 0 | 0 | 11 | 337 | 12 | P160 | 402 |
| 23:34:48 | 13 | 13 | UNK SURF | FC | | | FCS | 008TP | L | 0 | 0 | 15 | 24 | 11 | S164 | 303 |
| 23:34:48 | 12 | 12 | UNK SURF | FC | | | FCS | 311TP | R | 0 | 0 | 19 | 343 | 14 | S149 | 593 |
| 23:35:03 | 0 | 14 | UNK SURF | SA | | D | B* | 257R | M | 2 | 0 | | | | | |
| 23:35:03 | 0 | 13 | UNK SURF | SA | | D | D* | 282R | M | 8 | 0 | | | | | |
| 23:35:03 | 13 | 13 | UNK SURF | FC | | | FCS | 008TP | L | 0 | 0 | 15 | 24 | 11 | S164 | 361 |
| 23:35:03 | 14 | 14 | UNK SURF | FC | | | FCS | 356TP | L | 0 | 0 | 11 | 197 | 12 | P021 | 331 |
| 23:35:18 | 0 | 14 | UNK SURF | SA | | D | B* | 246R | M | 2 | 0 | | | | | |
| 23:35:18 | 0 | 13 | UNK SURF | SA | | D | D* | 271R | M | 5 | 0 | | | | | |
| 23:35:18 | 13 | 13 | UNK SURF | FC | | | FCS | 008TP | L | 0 | 0 | 15 | 24 | 11 | S164 | 408 |
| 23:35:18 | 14 | 14 | UNK SURF | FC | | | FCS | 355TP | L | 0 | 0 | 10 | 197 | 12 | P021 | 285 |
| 23:35:33 | 0 | 14 | UNK SURF | SA | | D | B* | 241R | M | 4 | 0 | | | | | |
| 23:35:33 | 0 | 13 | UNK SURF | SA | | D | D* | 265R | M | 3 | 0 | | | | | |
| 23:35:33 | 13 | 13 | UNK SURF | FC | | | FCS | 008TP | L | 0 | 0 | 15 | 24 | 11 | S164 | 434 |
| 23:35:33 | 14 | 14 | UNK SURF | FC | | | FCS | 355TP | L | 0 | 0 | 10 | 197 | 12 | P022 | 258 |
| 23:35:48 | 0 | 14 | UNK SURF | SA | | D | B* | 237R | M | -1 | 0 | | | | | |
| 23:35:48 | 0 | 13 | UNK SURF | SA | | D | D* | 260R | M | 7 | 0 | | | | | |

(b-1)



Enclosure: 1