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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 196 X
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>161/09 JUN 92</u>	<u>161/09 JUN 92</u>	
TIME(Z)	<u>0712:15</u>	<u>0734:13</u>	<u>21:58</u>
LATITUDE	<u>15° 31.796 N</u>	<u>15° 31.7940 N</u>	
LONGITUDE	<u>58° 50.69 W</u>	<u>58° 49.1637 W</u>	
SHOTPOINT	<u>426</u>	<u>520</u>	<u>95</u>
FILE #	<u>1</u>	<u>95</u>	<u>95</u>
TAPE #	<u>002</u>	<u>002</u>	<u>1</u>
WATER DEPTH	<u>4420 M</u>	<u>4570 M</u>	

REC LENGTH (S) 9.0 SAMP INT (MSEC) 2 # CHANNELS 48
SEIS CHANS 48 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 240 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5
COURSE 90° SPEED (KTS) 4.4
SHOT ON (TIME/DIST) REP RATE (S) ~13 (M) 30
SOURCE INFO 10 guns; 2320 in³; 2000 psi
NAV SYSTEM INFO Differential GPS

COMMENTS:

Streamer shallow at head and tail. Missed approx. 20 shots at beginning of line. Line aborted because of air leak.

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PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>161 / 09 JUN 92</u>		
TIME(Z)	<u>10:18:54</u>	<u>12 58 / 13:29</u>	
LATITUDE	<u>15°31.7935 N</u>		
LONGITUDE	<u>52.0101 W</u>		
SHOTPOINT	<u>0</u>		
FILE #	<u>1</u>		
TAPE #	<u>3</u>		
WATER DEPTH	<u>4400m</u>		

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 56
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5
COURSE 90° SPEED (KTS) 4.7
SHOT ON (TIME / DIST) REP RATE (S) 12 (M) 30
SOURCE INFO 10 airguns; 2320 in³ @ 2000 psi
NAV SYSTEM INFO Differential GPSCOMMENTS:

1st SP Ø

2nd SP ØØØØØ

NEAR END OF STREAMER IS SHALLOW (~11')

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PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>161</u>	<u>161</u>	
TIME(Z)	<u>≈ 2042:43</u>	<u>21:58:11</u>	
LATITUDE	<u>N 15° 31.7488'</u>	<u>~ N 15° 31.89</u>	
LONGITUDE	<u>≈ W 58° 34.0500'</u>	<u>~ W 58° 38.63</u>	
SHOTPOINT	<u>141</u>	<u>373</u>	
FILE #	<u>0015</u>	<u>371</u>	
TAPE #	<u>0007</u>	<u>08</u>	
WATER DEPTH		<u>~ 4890m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, 4
NEAR OFFSET (M) 190 FAR OFFSET (M) 851.5 CHAN SEP (M) 12.5
COURSE 265° SPEED (KTS) 4.1 ^{STW} / 4.5 _{SOG}
SHOT ON (TIME / DIST) REP RATE (S) 12.2 (M) ~ 30
SOURCE INFO 10 argins; 2320 in³ @ 2000 psi
NAV SYSTEM INFO _____COMMENTS:

nav data in File 196a

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 196 B
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>161</u>	<u>162</u>	
TIME(Z)	<u>22:04:32</u>	<u>01:01:48</u>	<u>2:57:16</u>
LATITUDE	<u>15° 31.89 N</u>		
LONGITUDE	<u>58° 38.63 W</u>		
SHOTPOINT	<u>000</u>	<u>831</u>	<u>831</u>
FILE #	<u>01</u>	<u>828</u>	<u>827</u>
TAPE #	<u>109</u>	<u>14</u>	<u>5</u>
WATER DEPTH	<u>4890m</u>	<u>~4317m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5
COURSE 270° SPEED (KTS) 4.3 STW / 4.450G
SHOT ON (TIME / (DIST)) REP RATE (S) 13.5 (M) 30
SOURCE INFO 10 airguns ; 2320 m³ @ 2000 psi
NAV SYSTEM INFO Differential GPS

COMMENTS:

Gun 20 firing time jumps Lot Early
1st SP 000 (missed first 3 shots)
2nd SP 004
STREAMER DEPTHS PRETTY CONSISTENT 20-25
GUN 1 sporadically firing early & late
~4 shots missing between SP# ~~454~~ 545 and 546

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PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>162/10</u>	<u>162 10 June 92</u>	
TIME(Z)	<u>02:20:59</u>	<u>05:24:30</u>	<u>3:03:31</u>
LATITUDE	<u>N 15° 32.7304</u>	<u>N 15° 32.76</u>	
LONGITUDE	<u>W 58° 52.0162</u>	<u>W 58° 37.96</u>	
SHOTPOINT	<u>1</u>	<u>834</u>	<u>834</u>
FILE #	<u>1</u>	<u>832</u>	<u>832</u>
TAPE #	<u>15</u>	<u>19</u>	<u>5</u>
WATER DEPTH	<u>4459 m</u>	<u>4950 m</u>	

REC LENGTH (S) 9s SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS ~~2~~ 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) ~~827.5~~ 851.5 CHAN SEP (M) 12.5 m
COURSE 90° SPEED (KTS) ~4.7_{STW} / 4.4_{OTG}
SHOT ON (TIME/DIST) REP RATE (S) ~12.6 av. (M) 30
SOURCE INFO 10 airguns, 2320 m in., 2000 psi
NAV SYSTEM INFO DIFFERENTIAL GPSCOMMENTS: GUN#12 FIRING TIME ERRATIC

STREAMER STEADY ~ 22 m

GUN#18 DOWN FROM SP# 164-270 (250°C)

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Aborted

LINE INFORMATION LOGCRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 197
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>162 10 June 92</u>	<u>162 10 June 92</u>	
TIME(Z)	<u>05 57 49</u>	<u>06 05 34</u>	<u>00:07:45</u>
LATITUDE	<u>N 15 31.7750</u>		
LONGITUDE	<u>W 058 38.1093</u>		
SHOTPOINT	<u>5</u>	<u>39</u>	<u>35</u>
FILE #	<u>1</u>	<u>35</u>	<u>35</u>
TAPE #	<u>20</u>	<u>20</u>	<u>1</u>
WATER DEPTH	<u>4929</u>		

REC LENGTH (S) 9.5 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5m
COURSE 272 SPEED (KTS) 4.0
SHOT ON (TIME / (DIST)) REP RATE (S) ~12.6 av (M) 30
SOURCE INFO 10 airguns 2320 cu in, 2000 psi
NAV SYSTEM INFO Differential GPSCOMMENTS:

navpts.000197x

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PROJECT Barbados 3-D AREA Barbados Trench P.I. Shibley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>162 10 June 92</u>	<u>162 10 June 92</u>	
TIME(Z)	<u>07:35:42</u>	<u>10:36:01</u>	<u>3:00:19</u>
LATITUDE	<u>N 15 31.7735</u>	<u>N 15 31.82 N</u>	
LONGITUDE	<u>W 058 38.0392</u>	<u>W 58 53.99 W</u>	
SHOTPOINT	<u>2</u>	<u>832</u>	<u>830</u>
FILE #	<u>1</u>	<u>831</u>	<u>830</u>
TAPE #	<u>21</u>	<u>25</u>	<u>5</u>
WATER DEPTH	<u>4929</u>	<u>4260</u>	

REC LENGTH (S) 95 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 34
NEAR OFFSET (M) 190 FAR OFFSET (M) 851.5
827.5 CHAN SEP (M) 12.5m
COURSE 268 SPEED (KTS) 4.0
SHOT ON (TIME / (DIST)) REP RATE (S) ~12.6m (M) 30
SOURCE INFO 10 airguns 2320 cuin 2000 psi
NAV SYSTEM INFO Differential GPSCOMMENTS:Guns 20 & 12 are often late, usually off
somewhat (E or L).inboard guns chafing in turn, compass fault (#06) recorded; significance unknown.
Gun 12 is late very frequently toward ~~end~~ EOL

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PROJECT Barbados 3-D AREA Barbados Trench P.I. Shibley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>162 10 JUN 92</u>	<u>162 10 JUN 92</u>	
TIME(Z)	<u>13:37:57</u>	<u>14:14</u>	<u>:37</u>
LATITUDE	<u>N 15.32.5684</u>		
LONGITUDE	<u>W 58 51.9320</u>		
SHOTPOINT	<u>2</u>	<u>130</u>	<u>128</u>
FILE #	<u>1</u>	<u>129</u>	<u>128</u>
TAPE #	<u>26</u>	<u>26</u>	<u>1</u>
WATER DEPTH	<u>4465 m</u>		

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) ~~827.5~~ 851.5 CHAN SEP (M) 12.5
COURSE 097 SPEED (KTS) 4.5
SHOT ON (TIME / (DIST)) REP RATE (S) ~12.6 m. (M) 30
SOURCE INFO 10 airguns, 2320 cu.in., 2000 psi.
NAV SYSTEM INFO Differential GPSCOMMENTS:

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PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>162 10 June 92</u>	<u>162 10 June 92</u>	
TIME(Z)	<u>16:17</u>	<u>16:25</u>	
LATITUDE	<u>N 1531.9263</u>		
LONGITUDE	<u>W 058 51.4414</u>		
SHOTPOINT	<u>0</u>	<u>36</u>	
FILE #	<u>1</u>	<u>34</u>	
TAPE #	<u>27</u>	<u>27</u>	
WATER DEPTH		<u>4304.0</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 851.5 CHAN SEP (M) 12.5
COURSE _____ SPEED (KTS) _____
SHOT ON (TIME / (DIST)) REP RATE (S) ~12.6 av (M) 30
SOURCE INFO 10 airguns, 2320 cu in, 2000 psi
NAV SYSTEM INFO Differential GPSCOMMENTS:

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	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>162 10 JUN 92</u>		
TIME(Z)	<u>15:47:54</u>	<u>15:55</u>	<u>:08</u>
LATITUDE	<u>N 15° 32.70</u>		
LONGITUDE	<u>W 58° 52.94</u>		
SHOTPOINT	<u>0</u>		
FILE #	<u>1</u>		
TAPE #	<u>27</u>		
WATER DEPTH	<u>4470 m</u>		

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4NEAR OFFSET (M) 190 FAR OFFSET (M) 851.5 CHAN SEP (M) 12.5COURSE SPEED (KTS) SHOT ON (TIME / DIST) REP RATE (S) ~12.6 av. (M) 30SOURCE INFO 10 airguns, 2320 cu. in., 2000 psiNAV SYSTEM INFO Differential GPSCOMMENTS:

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 162 C
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>162 10 June 92</u>	<u>162 10 June 92</u>	
TIME(Z)	<u>16:55.26</u>	<u>20:00:09</u>	<u>3:04:42</u>
LATITUDE	<u>N 15 32.7112</u>	<u>15° 32.71 N</u>	
LONGITUDE	<u>W 58 51.9725</u>	<u>58° 37.85 W</u>	
SHOTPOINT	<u>2</u>	<u>820</u>	<u>819</u>
FILE #	<u>1</u>	<u>819</u>	<u>819</u>
TAPE #	<u>28</u>	<u>32</u>	<u>5</u>
WATER DEPTH	<u>4468</u>	<u>4955</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 851.5 CHAN SEP (M) 12.5
COURSE 099 SPEED (KTS) 4.5
SHOT ON (TIME/DIST) REP RATE (S) ~12.6 av (M) 30
SOURCE INFO 10 airguns 2320 cm in 2000 psi
NAV SYSTEM INFO Differential GPS

COMMENTS:

1802Z Missed three positions between #303 + 304
192026Z SP# 656 } missed about 15 positions due
192343Z SP# 657 } to navigation breakdown.
1933 regretted Nav

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 199
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>162 10 June 92</u>	<u>163 11 June 92</u>	
TIME(Z)	<u>21:46:50</u>	<u>00:45:56</u>	<u>2:59:06</u>
LATITUDE	<u>15° 31.77</u>	<u>N 15° 31.71</u>	
LONGITUDE	<u>58° 37.91</u>	<u>W 58° 52.08</u>	
SHOTPOINT	<u>02</u>	<u>835</u>	<u>834</u>
FILE #	<u>01</u>	<u>834</u>	<u>834</u>
TAPE #	<u>34</u>	<u>38</u>	<u>5</u>
WATER DEPTH	<u>4922</u>	<u>4342</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, 4
NEAR OFFSET (M) 190 FAR OFFSET (M) 851.5
827.5 CHAN SEP (M) 12.5
COURSE 266 SPEED (KTS) SW 4.3 / SOG 4.8
SHOT ON (TIME / DIST) REP RATE (S) ~12 (M) 30
SOURCE INFO 10 airguns 2320 m³ 2000 psi
NAV SYSTEM INFO differential GPS

COMMENTS:

gun 20 sporadically E & L
gun 12 often E & L
gun 7 off from SP#814 to EOL

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 164
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>JD 163 / 11 JUNE 92</u>	<u>163 11 June 92</u>	
TIME(Z)	<u>02:34:44</u>	<u>05:40:53</u>	
LATITUDE	<u>N 15°32.65</u>	<u>N 15 32.6602</u>	
LONGITUDE	<u>W 58°52.02</u>	<u>W 058 37.8160</u>	
SHOTPOINT	<u>2</u>	<u>834</u>	<u>833</u>
FILE #	<u>1</u>	<u>832</u>	<u>832</u>
TAPE #	<u>39</u>	<u>43</u>	<u>5</u>
WATER DEPTH	<u>4461 m</u>	<u>4949</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 851.5
~~827.5~~ CHAN SEP (M) 12.5
COURSE 090 SPEED (KTS) 4.6 kts ~~09~~ (4.4 kts STW)
SHOT ON (TIME / DIST) REP RATE (S) ~12-13 (M) 30
SOURCE INFO 10 airgun array, 2320 cu in @ 2000 psi
NAV SYSTEM INFO Differential GPS

COMMENTS:

3 shots missed between 394 + 395
No shot point #396
Shot #385 not recorded

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 201
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>163 11 June 92</u>	<u>163 11 June 92</u>	
TIME(Z)	<u>06:38:58</u>	<u>09:44:48</u>	<u>3:05:50</u>
LATITUDE	<u>N 15 31.6646</u>	<u>15° 31.79 N</u>	
LONGITUDE	<u>W 058 38.0827</u>	<u>58° 52.09 W</u>	
SHOTPOINT	<u>2</u>	<u>835</u>	<u>832</u>
FILE #	<u>1</u>	<u>832</u>	<u>832</u>
TAPE #	<u>44</u>	<u>48</u>	<u>5</u>
WATER DEPTH	<u>4925</u>	<u>4328</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 851.5 CHAN SEP (M) 12.5
COURSE 265 SPEED (KTS) 4.3
SHOT ON (TIME/DIST) REP RATE (S) ~12-13 (M) 30
SOURCE INFO 10 airgun array, 2320 cu in @ 2000 psi
NAV SYSTEM INFO Differential GPS

COMMENTS:

No shot #80 or #82. "Missed NC" message on monitor
0818:21 SP 456, 458, 460, every 2n (n=1,2,3...) shots after till
SP 466 we have compass faults recorded in #'s 1-6. Pop
times from 12.0 to 14.2 sec, mostly 13-14 sec.

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 166
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>163 11 June 92</u>	<u>163 11 June 92</u>	
TIME(Z)	<u>10:23:40</u>	<u>13:20:54</u>	<u>2:57:14</u>
LATITUDE	<u>15° 37.85</u>	<u>N 15° 32.60</u>	
LONGITUDE	<u>58° 51.94</u>	<u>W 58° 37.99</u>	
SHOTPOINT	<u>0</u>	<u>835</u>	
FILE #	<u>01</u>	<u>830</u>	<u>830</u>
TAPE #	<u>49</u>	<u>53</u>	<u>5</u>
WATER DEPTH	<u>4443m</u>	<u>4949m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 851.5
~~827.5~~ CHAN SEP (M) 12.5
COURSE 85 SPEED (KTS) STW 4.3 / SDG 4.4
SHOT ON (TIME / (DIST)) REP RATE (S) ~13 (M) 30
SOURCE INFO 10 airgun array, 2320 m³ @ 2000 psi
NAV SYSTEM INFO differential GPS

COMMENTS:

1st SP 00
2nd SP 03

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 203
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shiple/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>163 / 11 JUNE '92</u>	<u>163 / 11 June 92</u>	
TIME(Z)	<u>15:16:02</u>	<u>18:12:36</u>	<u>2:56:34</u>
LATITUDE	<u>N 15° 31.61</u>	<u>N 15 31.6046</u>	
LONGITUDE	<u>W 58° 38.04</u>	<u>W 058 52.3141</u>	
SHOTPOINT	<u>0</u>	<u>835</u>	<u>835</u>
FILE #	<u>1</u>	<u>834</u>	<u>834</u>
TAPE #	<u>54</u>	<u>58</u>	<u>5</u>
WATER DEPTH	<u>4920 m</u>	<u>4255.0</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) ~~827.5~~ 851.5 CHAN SEP (M) 12.5
COURSE 270 SPEED (KTS) 4.5 kts OG / -4.2 kts STW
SHOT ON (TIME / DIST) REP RATE (S) 12-14s (M) 30
SOURCE INFO 10 airgun array, 2320 in³ @ 2000 psi
NAV SYSTEM INFO differential G.P.S.

COMMENTS:

skipped SP # 1, 2
Nav block incomplete from sp # 781 - 791

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 168
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>163 / 11 June 92</u>	<u>163 / 11 June 92</u>	
TIME(Z)	<u>18:51:59</u>	<u>21:53:56</u>	<u>3:01:57</u>
LATITUDE	<u>N 15 32.5438</u>	<u>~15° 32.33</u>	
LONGITUDE	<u>W 058 51.9828</u>	<u>~58° 37.26</u>	
SHOTPOINT	<u>2</u>	<u>825</u>	<u>821</u>
FILE #	<u>1</u>	<u>821</u>	<u>821</u>
TAPE #	<u>59</u>	<u>63</u>	<u>5</u>
WATER DEPTH	<u>4464</u>	<u>~4939m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, 4
NEAR OFFSET (M) 190 FAR OFFSET (M) 851.5
827.5 CHAN SEP (M) 12.5
COURSE 95 SPEED (KTS) 4.8

SHOT ON (TIME/DIST) REP RATE (S) 12-14s (M) 30
SOURCE INFO 10 airgun array, 2320 in³ 2000 psi
NAV SYSTEM INFO Differential GPS (down from 2000 → EOL)

COMMENTS:

Missed sp 1
"Missed NC" message between sp 69 & 71 No shot #70
Missed ~5 shots between ~~289~~ 290 & 292
No shot # 291
~5 shots missed between 323 & 324, Nav problems at
20:07:32, No shot # 325
DGPS down from ~2000Z on

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LINE INFORMATION LOG

abort

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 205
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>164/12 June 92</u>	<u>164/12 June 92</u>	
TIME(Z)	<u>00:02:51</u>	<u>01:31:08</u>	<u>1:28:27</u>
LATITUDE	<u>N 15° 31.55'</u>	<u>N 58 31.56</u>	
LONGITUDE	<u>W 58° 33.96</u>	<u>W 15 41.00</u>	
SHOTPOINT	<u>0</u>	<u>412</u>	<u>411 (see* below)</u>
FILE #	<u>1</u>	<u>411</u>	<u>411</u>
TAPE #	<u>64</u>	<u>66</u>	<u>3</u>
WATER DEPTH	<u>4844 m</u>	<u>5077 m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 851.5 CHAN SEP (M) 12.5
COURSE 270° SPEED (KTS) 4.25W
SHOT ON (TIME/DIST) REP RATE (S) 13 (M) n30
SOURCE INFO 10 mgun array, 2320 in³ @ 2000 psi
NAV SYSTEM INFO different GPS (regular, not differential)

COMMENTS:

- (NB) Line shot with ordinary GPS, fine-by-time mode
- * - miss SP# 2,3
- line abandoned after DGPS link back up @ 01:22; so going to come about and re-shoot line

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 205A
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>164 12 JUN 92</u>	<u>164 12 Jun 92</u>	
TIME(Z)	<u>03:34:55</u>	<u>06:37:10</u>	<u>03:02:15</u>
LATITUDE	<u>N 15 31.5812</u>	<u>N 15 31.5480</u>	
LONGITUDE	<u>W 58 38.0895</u>	<u>W 58 52.3450</u>	
SHOTPOINT	<u>0</u>	<u>836</u>	<u>836</u>
FILE #	<u>1</u>	<u>835</u>	<u>835</u>
TAPE #	<u>67</u>	<u>71</u>	
WATER DEPTH	<u>4917.0</u>	<u>4252.0</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, 4
NEAR OFFSET (M) 190 FAR OFFSET (M) ~~827.5~~ 851.5 CHAN SEP (M) 12.5
COURSE 260 SPEED (KTS) 4.4
SHOT ON (TIME / DIST) REP RATE (S) 12-14s (M) ~ 30
SOURCE INFO 10 airgun array, 2320 cu.in. @ 2000 psi
NAV SYSTEM INFO Differential GPS
COMMENTS: sp #1 + 2 missing

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PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>164 12 June 92</u>	<u>164 12 June 92</u>	
TIME(Z)	<u>07:15:00</u>	<u>10:21:07</u>	<u>3:06:07</u>
LATITUDE	<u>N 15 32.5128</u>	<u>N 15° 32.43</u>	
LONGITUDE	<u>W 58 52.0225</u>	<u>W 58° 38.10</u>	
SHOTPOINT	<u>0</u>	<u>833</u>	<u>832</u>
FILE #	<u>1</u>	<u>832</u>	<u>832</u>
TAPE #	<u>72</u>	<u>76</u>	<u>5</u>
WATER DEPTH	<u>4431</u>	<u>4948</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 851.5
827.5 CHAN SEP (M) 12.5
COURSE 95 SPEED (KTS) 4.5
SHOT ON (TIME / DIST) REP RATE (S) 12-145 (M) 30
SOURCE INFO 10 airgun array, 2320 in³ 2000 psi
NAV SYSTEM INFO Differential GPSCOMMENTS:

sp 1-8 Missing (file #1-7)

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 207
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>164 / 12 June 92</u>	<u>164 / 12 June 92</u>	
TIME(Z)	<u>10:56:38</u>	<u>13:48:45</u>	
LATITUDE	<u>N 15° 31.57</u>	<u>N 15° 31.49</u>	
LONGITUDE	<u>W 58° 38.09</u>	<u>W 58° 52.56</u>	
SHOTPOINT	<u>984</u>	<u>831</u>	<u>* 837 (see comments below)</u>
FILE #	<u>984 1</u>	<u>837</u>	<u>837</u>
TAPE #	<u>77</u>	<u>81</u>	<u>5</u>
WATER DEPTH	<u>4925</u>	<u>4247</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, 4
NEAR OFFSET (M) 190 FAR OFFSET (M) 851.5 CHAN SEP (M) 12.5
COURSE 268 SPEED (KTS) STW 4.5, SOG 4.8
SHOT ON (TIME/DIST) REP RATE (S) ~12 (M) 30
SOURCE INFO 10 airgun array, 2320 in³ @ 2000 psi
NAV SYSTEM INFO differential GPS

COMMENTS:

* 1st SP # 984 F#1 1st 4 shots, shot on time
7th SP # 990 F#7
8th SP # 2 F#8

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 171
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>164 12 JUN 92</u>	<u>164 12 June 92</u>	
TIME(Z)	<u>15:19:25</u>	<u>18:24:46</u>	<u>3:05:21</u>
LATITUDE	<u>N 15 32.4494</u>	<u>N 15 32.4702</u>	
LONGITUDE	<u>W 58 51.9725</u>	<u>W 58 37.5938</u>	
SHOTPOINT	<u>2</u>	<u>830</u>	<u>829</u>
FILE #	<u>1</u>	<u>829</u>	<u>829</u>
TAPE #	<u>82</u>	<u>86</u>	<u>5</u>
WATER DEPTH	<u>4419.0</u>	<u>4936</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 851.5 CHAN SEP (M) 12.5
COURSE 268 SPEED (KTS) STW 4.5 / SOG 4.8
SHOT ON (TIME / DIST) REP RATE (S) ~12 (M) 30
SOURCE INFO 10 airguns, 2320 cu.in. at 2000 psi
NAV SYSTEM INFO Differential GPS

COMMENTS:

1600Z ~ 3 shots not fired between ^{SP#} 196 + 197
1700Z - lost float ^{net only, float OK} on gun #16 (sp# 451)
guns #18 + 20 are tangled

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 209 + 209A
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>164 12 June 92</u>	<u>164 12 June 92</u>	
TIME(Z)	<u>19:30:47</u>	<u>22:28:22</u>	<u>2:57:35</u>
LATITUDE	<u>N 15 31.4504</u>	<u>15° 31.20</u>	
LONGITUDE	<u>W 58 38.0425</u>	<u>58° 52.13</u>	
SHOTPOINT	<u>2</u>	<u>816</u>	<u>816</u>
FILE #	<u>1</u>	<u>322</u>	<u>322</u>
TAPE #	<u>87</u>	<u>91</u>	<u>5</u>
WATER DEPTH	<u>4921</u>	<u>4298</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, 4
NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5
COURSE 261 SPEED (KTS) 4.0
SHOT ON (TIME / DIST) REP RATE (S) ~12 (M) 30
SOURCE INFO 10 airguns, 2320 in³ @ 2000 psi
NAV SYSTEM INFO Differential GPS

COMMENTS:

repeated "COMPASS* 06 FAULT" error message
2108Z missed ~~shots~~? shots, screen went blank computer crashed
2109Z started shooting on time, 12 sec intervals
2119Z restarted as line 209A, fine by distance not
(system back up) 1st 8 shots no good
1st good shot: SP#505, FILE #9
Spent not reset, file #'s reset

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 173
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>164 / 12 June 92</u>	<u>165 / 12 June 92</u>	
TIME(Z)	<u>23:07:54</u>	<u>02:15:20</u>	
LATITUDE	<u>15°32.31</u>	<u>N 15°32.41</u>	
LONGITUDE	<u>58°52.18</u>	<u>W 58°38.01</u>	
SHOTPOINT	<u>0</u>	<u>833</u>	
FILE #	<u>1</u>	<u>831</u>	
TAPE #	<u>92</u>	<u>96</u>	
WATER DEPTH	<u>4417</u>	<u>4943m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5
COURSE -090° SPEED (KTS) STW 4.4 / SOG 4.6
SHOT ON (TIME / DIST) REP RATE (S) 12-14s (M) 30
SOURCE INFO 10 airgun array, 2320 in³ @ 2000 psi
NAV SYSTEM INFO differential GPS

COMMENTS: - 1st shot: SP#0, F#1
- 2nd shot: SP#3, F#2
- ~~821~~ Missing shot after SP# 231, then next shot point labelled SP#0, next SP is SP# 233
- SP# 381 missing

We are seeing some "New Block Inc." messages in the SP < 100 range, but no missed shots.

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 211
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>165 / 13 JUNE '92</u>	<u>165 13 June 92</u>	
TIME(Z)	<u>02:52:54</u>	<u>05:53:49</u>	<u>3:00:55</u>
LATITUDE	<u>N 15° 31.39</u>	<u>N 15° 31.39</u>	
LONGITUDE	<u>W 58° 38.03</u>	<u>W 58° 52.09</u>	
SHOTPOINT	<u>2</u>	<u>834</u>	<u>832</u>
FILE #	<u>1</u>	<u>832</u>	<u>832</u>
TAPE #	<u>97</u>	<u>101</u>	<u>5</u>
WATER DEPTH	<u>4924 m</u>	<u>5025 m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 851.5 CHAN SEP (M) 12.5
COURSE ~270° SPEED (KTS) 4.0 STW / 4.5 OTC
SHOT ON (TIME / DIST) REP RATE (S) 12-14 s (M) 30
SOURCE INFO 10 airgun array, 2320 cu.in. @ 2000 psi
NAV SYSTEM INFO differential GPS

COMMENTS:

- First SP is SP#2
- Big stray off course @ ~ 0329z (~38 m cross-line!)
(to S.)
- Missing SP# 245 between files 243 & 244
- SP#741 Compress # 1 - 6 Fault

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LINE INFORMATION LOGCRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 175PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

(1) EOL for shoot-by-dist. mode (2) EOL for shoot-by-time mode ✓

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>165 13 June 92</u>	<u>165 13 June 92</u>	
TIME(Z)	<u>08:46:43</u>	<u>12:00:24</u>	<u>13:12:42 (3:13:41) 4:24:54</u>
LATITUDE	<u>15° 32.60</u>	<u>N15°32.37</u>	<u>N15°32.37</u>
LONGITUDE	<u>58° 51.95</u>	<u>W58°37.77</u>	<u>W58°32.54</u>
SHOTPOINT	<u>0</u>	<u>835</u>	<u>1212 (836) 1212</u>
FILE #	<u>1</u>	<u>831</u>	<u>1206 (831) 1206</u>
TAPE #	<u>102</u>	<u>108</u>	<u>111 (7) 10</u>
WATER DEPTH	<u>4345m</u>	<u>4945m</u>	<u>4867m</u>

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, 4NEAR OFFSET (M) 190 FAR OFFSET (M) 851.5 CHAN SEP (M) 12.5COURSE 97 SPEED (KTS) 4.2 SW / 4.1 SOGSHOT ON (TIME (DIST)) REP RATE (S) 12-14s (M) 30SOURCE INFO 10 airgun array, 2320 cu-in @ 2000 psiNAV SYSTEM INFO Differential GPSCOMMENTS:

First effort failed due to DSS240 Crash.

1st shot: SP #0

2nd shot: SP #3

missed SP #727, SP #729, SP #731

- * finished firing by distance @ SP #835, continuing on line in
- * fire by time mode 13 sec interval
- * Running out line for 1 hour to await navigation return

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PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>165/13 JUNE '92</u>	<u>165 13 June 92</u>	
TIME(Z)	<u>14:57:54</u>	<u>17:56:12</u>	<u>2:58:18</u>
LATITUDE	<u>N 15° 31.34</u>	<u>N 15 31.3355</u>	
LONGITUDE	<u>W 58° 38.03</u>	<u>58 52.2572</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>835</u>
FILE #	<u>1</u>	<u>832</u>	<u>832</u>
TAPE #	<u>112</u>	<u>116</u>	<u>5</u>
WATER DEPTH	<u>4927 m</u>	<u>4281.0</u>	

REC LENGTH (S) 9.0 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 851.5
827.5 CHAN SEP (M) 12.5
COURSE 270° SPEED (KTS) 4.5 OTG / 4.2 STW
SHOT ON (TIME / DIST) REP RATE (S) ~ 12-14 (M) 30
SOURCE INFO 10 airgun array , 2320 cu.in. , 2000 psi
NAV SYSTEM INFO differential GPSCOMMENTS:

- Compass #6 fault throughout

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PROJECT Barbados 3-D AREA Barbados Trench P.I. Shiple/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>165 13 June 92</u>	<u>165 13 June 92</u>	
TIME(Z)	<u>18:38:07</u>	<u>21:44:41</u>	<u>3:06:34</u>
LATITUDE	<u>N 15 32 30.44</u>	<u>N 15° 32.31</u>	
LONGITUDE	<u>W 58 52 02.98</u>	<u>W 58° 37.83</u>	
SHOTPOINT	<u>0</u>	<u>836</u>	<u>835</u>
FILE #	<u>1</u>	<u>835</u>	<u>835</u>
TAPE #	<u>117</u>	<u>121</u>	<u>5</u>
WATER DEPTH	<u>4408</u>	<u>4942</u>	

REC LENGTH (S) 9.0 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, 4
NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5
COURSE 96 SPEED (KTS) 4.3
SHOT ON (TIME / DIST) REP RATE (S) ~12-14 (M) 30
SOURCE INFO 10 airgun array, 2320 cu in, 2000 psi
NAV SYSTEM INFO Differential GPSCOMMENTS:missing sp #1 +2
missing sp #79DGPS down for ~10min 2028Z-2041Z (plotter)?
plotter or GPS?

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 215
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>165/13 June 92</u>	<u>166/14 June 92</u>	
TIME(Z)	<u>22:24:00</u>	<u>01:17:50</u>	<u>2:53:50</u>
LATITUDE	<u>N 15° 31.36</u>	<u>N 15 31.3162</u>	
LONGITUDE	<u>W 58° 37.96</u>	<u>W 58 52.1144</u>	
SHOTPOINT	<u>2</u>	<u>821</u>	<u>820</u>
FILE #	<u>1</u>	<u>820</u>	<u>820</u>
TAPE #	<u>122</u>	<u>126</u>	<u>5</u>
WATER DEPTH	<u>4931</u>	<u>4291</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 857.5 CHAN SEP (M) 12.5
COURSE 270° SPEED (KTS) SW 4.3 / SOG 4.6
SHOT ON (TIME / DIST) REP RATE (S) 12-14 (M) 30
SOURCE INFO 10 airgun array, 2320 in³ @ 2000 psi
NAV SYSTEM INFO differential GPS

COMMENTS:

1st shot: SP #2

GUN #14: firing E, L or not at all, sometimes it's okay - pulled @ 0008z
-back on @ 0053z

NAV. PROGRAM DOWN - MISS ~ 20 SHOTS AFTER SP# 468

1450

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PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>166 / 14 JUNE 92</u>	<u>166 14 June 92</u>	
TIME(Z)	<u>02:03:07</u>	<u>05:06:58</u>	<u>3:03:51</u>
LATITUDE	<u>N 15 32.2530</u>	<u>N 15 32.2574</u>	
LONGITUDE	<u>W 58 51.8899</u>	<u>W 58 37.9901</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>835</u>
FILE #	<u>1</u>	<u>835</u>	<u>835</u>
TAPE #	<u>127</u>	<u>131</u>	<u>5</u>
WATER DEPTH	<u>4409</u>	<u>4934</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 851.5
~~827.5~~ CHAN SEP (M) 12.5
COURSE 090° SPEED (KTS) 4.4 SDG / 4.6 STW
SHOT ON (TIME / DIST) REP RATE (S) 12-14 (M) 30
SOURCE INFO 10 airguns , 2320 cu.in. , 2000 psi
NAV SYSTEM INFO differential G.P.S.COMMENTS:

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 217
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>166 / 14 June 92</u>	<u>166 / 14 JUN 92</u>	<u>2 hrs, 55 min, 4 sec.</u>
TIME(Z)	<u>05:51:11</u>	<u>08:46:15</u>	<u>02:55:04</u>
LATITUDE	<u>N 15 31.2370</u>	<u>N 15° 31.22'</u>	
LONGITUDE	<u>W 58 38.0316</u>	<u>W 58° 52.23'</u>	
SHOTPOINT	<u>0</u>	<u>830</u>	<u>831</u>
FILE #	<u>1</u>	<u>819</u>	<u>819</u>
TAPE #	<u>132</u>	<u>136</u>	<u>5</u>
WATER DEPTH	<u>4940</u>	<u>5025 4275</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, 4
NEAR OFFSET (M) 190 FAR OFFSET (M) ~~827.5~~ 851.5 CHAN SEP (M) 12.5
COURSE 265 SPEED (KTS) 4.4
SHOT ON (TIME/DIST) REP RATE (S) 12-14 (M) 30
SOURCE INFO 10 airguns, 2320 cu in, 2000 psi
NAV SYSTEM INFO Differential GPS

COMMENTS:

Missing sp # 0-18 (File # 1-8)
"Missed Nc" between sp # 55 + 57. No sp # 56
Acquisition code error bad key in ~2 shots
missed (possibly one only) 5 shots missed

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 181
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shiple/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>166/14 June 92</u>	<u>166/14 June 92</u>	
TIME(Z)	<u>09:33:05</u>	<u>12:54:53</u>	<u>3:20:58</u>
LATITUDE	<u>N 15° 32.15</u>	<u>N 15° 32.20</u>	
LONGITUDE	<u>W 58° 52.96</u>	<u>W 58° 37.96</u>	
SHOTPOINT	<u>0</u>	<u>831</u>	<u>831</u>
FILE #	<u>1</u>	<u>827</u>	<u>827</u>
TAPE #	<u>137</u>	<u>141</u>	<u>5</u>
WATER DEPTH	<u>4409 m</u>	<u>4934</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5
COURSE 99° SPEED (KTS) STW 4.6 / SOG 4.2
SHOT ON (TIME / DIST) REP RATE (S) ~12-14 (M) 30
SOURCE INFO 10 airgun array, 2320 in³ @ 2000 psi
NAV SYSTEM INFO differential GPS

COMMENTS:

1st shot: SP#0 F#1

2nd shot: SP#3 F#2

missed ~3 shots @ 1728 due to navigation failure

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PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>166/14 JUNE '92</u>	<u>166/14 JUNE '92</u>	
TIME(Z)	<u>14:23:07</u>	<u>17:19:00</u>	<u>2:55:53</u>
LATITUDE	<u>N15° 31.183</u>	<u>N 15° 31.1752'</u>	
LONGITUDE	<u>W58° 38.03</u>	<u>W 58° 52.1474'</u>	
SHOTPOINT	<u>0</u>	<u>833</u>	<u>833</u>
FILE #	<u>1</u>	<u>832</u>	<u>832</u>
TAPE #	<u>142</u>	<u>146</u>	<u>5</u>
WATER DEPTH	<u>4935</u>	<u>4272</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 851.5 CHAN SEP (M) 12.5
COURSE ~270° SPEED (KTS) 4.6 STW | 4.7 SOG
SHOT ON (TIME/DIST) REP RATE (S) ~135 (M) 30
SOURCE INFO 10 airgun array, 2320 m.in., 2000 psi
NAV SYSTEM INFO differential GPSCOMMENTS:

Skipped SP numbers 1, 2 (second shot = SP# 3)

No shot pt # 467-479

Compass # 06 fault persists throughout shooting

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PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>166 14 June 92</u>	<u>166 14 June 92</u>	
TIME(Z)	<u>17:58:00</u>	<u>21:05:01</u>	<u>3:08:01</u>
LATITUDE	<u>N 15 32.426</u>	<u>N 15° 32.24</u>	
LONGITUDE	<u>W 58 52.0268</u>	<u>W 58° 37.90</u>	
SHOTPOINT	<u>0</u>	<u>833</u>	
FILE #	<u>1</u>	<u>831</u>	
TAPE #	<u>147</u>	<u>151</u>	
WATER DEPTH	<u>4414</u>	<u>4932</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5
COURSE 99 SPEED (KTS) 4.9
SHOT ON (TIME / DIST) REP RATE (S) ~13 s (M) 30
SOURCE INFO 10 airgun array, 2320 cu in 2000psi
NAV SYSTEM INFO differential GPSCOMMENTS:

Missing sp# 1-4 (file # 1-3)
Nav Block Incomplete missing sp# 15 & 16
Nav Block Inc. missing sp# 346-351
Pulled in gun #20 120 cu in ~ sp # 375
LOGGING COMPUTER CRASHED, DOWN FROM 2012 - 2030, TAPE
CONTINUED RECORDING AND GUNS CONTINUED FIRING ALTHOUGH SOME
SHOTS WERE PROBABLY MISSED DURING THAT INTERVAL

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PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>166/14 June 92</u>	<u>167/15 June 92</u>	
TIME(Z)	<u>21:41:38</u>	<u>00:30:01</u>	<u>2:48:23</u>
LATITUDE	<u>N 15° 31.25</u>	<u>N 15 31.1425</u>	
LONGITUDE	<u>W 58° 88.11</u>	<u>W 58 52.1948</u>	
SHOTPOINT	<u>2</u>	<u>834</u>	<u>832</u>
FILE #	<u>1</u>	<u>832</u>	<u>832</u>
TAPE #	<u>152</u>	<u>156</u>	<u>5</u>
WATER DEPTH	<u>4936</u>	<u>4280</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 851.5
CHAN SEP (M) 12.5
COURSE 268° SPEED (KTS) STW 4.3 / 506 4.5
SHOT ON (TIME (DIST)) REP RATE (S) 12-14 (M) 30
SOURCE INFO 10 airgun array, 2320 m³ @ 2000 psi
NAV SYSTEM INFO differential GPSCOMMENTS:

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PROJECT Barbados 3-D AREA Barbados Trench P.I. Shiple/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>167 / 15 JUNE '92</u>	<u>167 / 15 JUNE '92</u>	
TIME(Z)	<u>01:10:49</u>	<u>04:10:05</u>	<u>2:59:16</u>
LATITUDE	<u>N 15 32.1095</u>	<u>N 15 32 0927</u>	
LONGITUDE	<u>W 58 51.9860</u>	<u>W 58 37.7575</u>	
SHOTPOINT	<u>2</u>	<u>827</u>	<u>826</u>
FILE #	<u>1</u>	<u>826</u>	<u>826</u>
TAPE #	<u>157</u>	<u>161</u>	<u>5</u>
WATER DEPTH	<u>4410</u>	<u>4929</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5
COURSE 88 SPEED (KTS) 4.7
SHOT ON (TIME / DIST) REP RATE (S) ~12-14 (M) 30
SOURCE INFO 10 airgun array , 2320cu.in. @ 2000 psi
NAV SYSTEM INFO differential GPSCOMMENTS:

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 223
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>167 15 June 92</u>	<u>167 15 June 92</u>	
TIME(Z)	<u>04:49:49</u>	<u>07:45:35</u>	<u>2:55:46</u>
LATITUDE	<u>N 15 31.0740</u>	<u>N 15 31.0705</u>	
LONGITUDE	<u>W 58 38.0322</u>	<u>W 58 52.1990</u>	
SHOTPOINT	<u>0</u>	<u>835</u>	<u>835</u>
FILE #	<u>1</u>	<u>829</u>	<u>829</u>
TAPE #	<u>162</u>	<u>166</u>	<u>5</u>
WATER DEPTH	<u>4928</u>	<u>4775</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 851.5 CHAN SEP (M) 12.5
COURSE 274 SPEED (KTS) 4.1
SHOT ON (TIME / DIST) REP RATE (S) ~12.14 (M) 30
SOURCE INFO 10 airgun array, 2320 cuin @ 2000psi
NAV SYSTEM INFO Differential GPS

COMMENTS:

Missing sp# 1+2
Missing sp# 63+64
New Block Inc. for sp# 84
" " " for sp# 121-133
Missed NC between sp# 463 + 465

Compass # 6 fault throughout shooting of this line.

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 187
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shiple/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>167 15 June 92</u>	<u>167 15 June 92</u>	
TIME(Z)	<u>08:28:09</u>	<u>08:39:45</u>	
LATITUDE	<u>N15°31.73</u>	<u>N15°31.93</u>	
LONGITUDE	<u>W58°51.90</u>	<u>W58°50.92</u>	
SHOTPOINT	<u>0</u>	<u>39</u>	
FILE #	<u>1</u>	<u>38</u>	
TAPE #	<u>167</u>	<u>167</u>	
WATER DEPTH	<u>4775m</u>	<u>4775m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5
COURSE 96° SPEED (KTS) STW 4.2 / 506
SHOT ON (TIME / DIST) REP RATE (S) 12-14 (M) 30
SOURCE INFO 10 airgun array, 2320 cu in @ 200psi
NAV SYSTEM INFO Differential GPS

COMMENTS:

1st shot: SP #0 F#1
2nd shot: SP #3 F#2

"COMPASS #06 FAULT" err. messages continuing

0843Z LINE ABORTED DUE TO NAV. FAILURE
(SAT. PROBLEMS)

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LINE INFORMATION LOGCRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 187A
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shiple/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>167/15 June 92</u>	<u>167/15 June 92</u>	
TIME(Z)	<u>09:58:55</u>	<u>13:11:40</u>	<u>3:17:45</u>
LATITUDE	<u>N15°31.80</u>	<u>15°32.03</u>	
LONGITUDE	<u>W58°52.01</u>	<u>58°37.82</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>835</u>
FILE #	<u>1</u>	<u>834</u>	<u>834</u>
TAPE #	<u>168</u>	<u>172</u>	<u>5</u>
WATER DEPTH	<u>4775m</u>	<u>4933</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 851.5
827.5 CHAN SEP (M) 12.5
COURSE 96° SPEED (KTS) STW 4.4/506 3.0
SHOT ON (TIME / DIST) REP RATE (S) 12-15 (M) 30
SOURCE INFO 10 airgun array, 2320 cu in @ 2000 psi
NAV SYSTEM INFO differential GPSCOMMENTS:

"COMPASS #06 FAULT" messages continue
mixed sp# 777

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 225
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>167 / 15 JUNE '92</u>	<u>167 15 June 92</u>	
TIME(Z)	<u>14:52:55</u>	<u>17:49:46</u>	<u>2:56:51</u>
LATITUDE	<u>N 15° 31.02</u>	<u>N 15 31 0129</u>	
LONGITUDE	<u>W 58° 38.04</u>	<u>W 58 52 39 71</u>	
SHOTPOINT	<u>2</u>	<u>835</u>	<u>834</u>
FILE #	<u>1</u>	<u>834</u>	<u>834</u>
TAPE #	<u>173</u>	<u>177</u>	<u>5</u>
WATER DEPTH	<u>4925</u>	<u>4261</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, 4
NEAR OFFSET (M) 190 FAR OFFSET (M) 851.5
827.5 CHAN SEP (M) 12.5
COURSE 270° SPEED (KTS) 4.0 SW / 4.5 SOG
SHOT ON (TIME / DIST) REP RATE (S) ~13 (M) 30
SOURCE INFO 10 Airgun array , 2320 cu.in. @ 2000 psi
NAV SYSTEM INFO differential GPS

COMMENTS:

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 189
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shiple/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>167 15 June 92</u>	<u>167 15 JUN 92</u>	
TIME(Z)	<u>18:28:34</u>	<u>21:26:57</u>	<u>02:58:24</u>
LATITUDE	<u>N 15 31.9825</u>	<u>N 15 31.99</u>	
LONGITUDE	<u>W 58 52.0269</u>	<u>W 58 37.93</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>835</u>
FILE #	<u>1</u>	<u>834</u>	<u>834</u>
TAPE #	<u>178</u>	<u>182</u>	<u>182 5</u>
WATER DEPTH	<u>4411</u>	<u>4936</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, 4
NEAR OFFSET (M) 190 FAR OFFSET (M) ~~827.5~~ 851.5 CHAN SEP (M) 12.5
COURSE end 99 SPEED (KTS) end 5.0 OTW
SHOT ON (TIME / DIST) REP RATE (S) ~13 (M) 30
SOURCE INFO 10 airgun array, 2320cm in @ 2000psi
NAV SYSTEM INFO differential GPS
COMMENTS: Missed NC - no sp#11

Unsuccessful line.

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 227
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>167 15 JUN 92</u>	<u>168 16 JUNE 92</u>	
TIME(Z)	<u>22:05:17</u>	<u>01:05:17</u>	
LATITUDE	<u>N 15 30.94</u>	<u>N 15° 30.96</u>	
LONGITUDE	<u>W 58 37.92</u>	<u>W 58° 52.07</u>	
SHOTPOINT	<u>005</u>	<u>832</u>	
FILE #	<u>001</u>	<u>814</u>	
TAPE #	<u>183</u>	<u>187</u>	
WATER DEPTH	<u>4934</u>	<u>4311</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 56
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, 4
NEAR OFFSET (M) 190 FAR OFFSET (M) 551.5 CHAN SEP (M) 12.5
COURSE 258 SPEED (KTS) 4.7 OTG
SHOT ON (TIME (DIST)) REP RATE (S) 12-15 (M) 30
SOURCE INFO 10 airgun array, 2320 cu in @ 2000 psi
NAV SYSTEM INFO DGPS

COMMENTS:

1st two shots missed (possibly 3)
missed 13 shots between SP# 608 and 622

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 191
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>168 16 JUN 92</u>	<u>168 16 Jun 92</u>	
TIME(Z)	<u>01:45:56</u>	<u>04:41:46</u>	<u>2:51:50</u>
LATITUDE	<u>N 15 31.9366</u>		
LONGITUDE	<u>W 15 51.9420</u>		
SHOTPOINT	<u>0</u>	<u>791</u>	<u>792</u>
FILE #	<u>1</u>	<u>789</u>	<u>789</u>
TAPE #	<u>188</u>	<u>197</u>	<u>4</u>
WATER DEPTH	<u>4391</u>	<u>4913</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 56
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 551.5 CHAN SEP (M) 12.5
COURSE 97 SPEED (KTS) 4.5
SHOT ON (TIME (DIST)) REP RATE (S) 12-15 (M) 30
SOURCE INFO 10 airgun array, 2320 cu. in. at 2000 psi
NAV SYSTEM INFO DGPS

COMMENTS:

compass #06 fault persists throughout.

Nav Black Inc. / Bad TB - whole system stopped
at sp # 791

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 229
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shiple/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>168 16 June 92</u>	<u>168 16 June 92</u>	
TIME(Z)	<u>05:42:</u>	<u>08:43:49</u>	<u>~03:01:49</u>
LATITUDE	<u>N 15 30.9138</u>	<u>N 15° 30.42</u>	
LONGITUDE	<u>W 58 38.0372</u>	<u>W 58° 51.69</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>835</u>
FILE #	<u>1</u>	<u>835</u>	<u>835</u>
TAPE #	<u>192</u>	<u>196</u>	<u>5</u>
WATER DEPTH	<u>4926</u>	<u>4291m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 56
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 551.5
827.5 CHAN SEP (M) 12.5
COURSE 264 SPEED (KTS) 4.4
SHOT ON (TIME / DIST) REP RATE (S) 12-15 (M) 30
SOURCE INFO 10 airgun array, 2320 m @ 2000 psi
NAV SYSTEM INFO DGPS

COMMENTS:

Compass #06 Fault

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LINE INFORMATION LOGCRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 193
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>JD 168/16 June 92</u>	<u>168 / 16 June 92</u>	
TIME(Z)	<u>1</u>		
LATITUDE	<u>N15°31.69</u>		
LONGITUDE	<u>W58°51.95</u>		
SHOTPOINT	<u>0</u>		
FILE #	<u>1</u>		
TAPE #	<u>197</u>		
WATER DEPTH	<u>4397</u>		

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 851.5
CHAN SEP (M) 827.5 12.5
COURSE 4.00 SPEED (KTS) 4.8
SHOT ON (TIME / (DIST)) REP RATE (S) (M) 30
SOURCE INFO 10 ocean array 2320 in³ @ 2000 psi
NAV SYSTEM INFO differential GPSCOMMENTS:ABORTED

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 193A
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

START END TOTAL

DATE(JD/DATE)	TIME(Z)	LATITUDE	LONGITUDE	SHOTPOINT	FILE #	TAPE #	WATER DEPTH
168/16 June 92	10:55:23	N 15 31.87	W 58 51.99	0	1	198	4399
168/16 June 92	13:09	N 15 32.	W 58 40.	648	625	201	5014
				649	625	4	

REC LENGTH (S)	SAMP INT (MSEC)	# CHANNELS	AUX CHANS	SEIS CHANS	NEAR OFFSET (M)	FAR OFFSET (M)	CHAN SEP (M)	COURSE	SPEED (KTS)	SHOT ON (TIME/DIST)	REP RATE	SOURCE INFO	NAV SYSTEM INFO
9	2	52	53-56	1-52	190	827.5	12.5	99	4.307W / 4.307E	(12-15)	30	10 argus array, 2320 m ³ @ 2000psi	NAV SYSTEM INFO

COMMENTS:

GUN #7 not firing from SOL to 12/16Z
GUN #18 not firing from 1200Z ~ 1200Z

1238Z: Baps down - automatically switches to fire-by-time
on last SP int. of

- line abandoned due to navigation problems

reconstructed from raw
9ps files
25014
Naps file
inadvertently erased
25 Solve

ABORT

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LINE INFORMATION LOG

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS ~~52~~ 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) ~~827.5~~ 851.5 CHAN SEP (M) 12.5
COURSE 265° SPEED (KTS) 3.2
SHOT ON (TIME / (DIST)) REP RATE (S) 12 - 15 (M) 30
SOURCE INFO 10 airgun array , 2320 w.in. @ 2000psi
NAV SYSTEM INFO differential GPS

COMMENTS:

Pulled out #3 gun at 1556 200cc
Put back in at 1700Z
Now Block Inc. No sp# 768

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PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>168 / 16 June 92</u>	<u>168 / 16 June 92</u>	
TIME(Z)	<u>18:42:20</u>	<u>21:40:49</u>	<u>2:58:29</u>
LATITUDE	<u>N 15 31.8194</u>	<u>N 15° 31.90</u>	
LONGITUDE	<u>W 58 52.0224</u>	<u>W 58° 37.76</u>	
SHOTPOINT	<u>0</u>	<u>836</u>	<u>834</u>
FILE #	<u>1</u>	<u>834</u>	<u>834</u>
TAPE #	<u>207</u>	<u>211</u>	<u>5</u>
WATER DEPTH	<u>4382</u>	<u>4920m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 851.5 CHAN SEP (M) 12.5
COURSE 95 SPEED (KTS) 4.9
SHOT ON (TIME (DIST)) REP RATE (S) 12-15 (M) 30
SOURCE INFO 10 airgun array, 2320 in³ @ 2000 psi
NAV SYSTEM INFO DGPSCOMMENTS:

no sp# 1 & 2
Nav Block Inc. between sp# 187 - 193
misses sp# 188-192

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LINE INFORMATION LOGCRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 230PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>168 / 16 June 92</u>	<u>169 / 17 June '92</u>	
TIME(Z)	<u>22:16:31</u>	<u>01:09:31</u>	<u>2:53:00</u>
LATITUDE	<u>N 15° 31.11</u>	<u>N 15° 30.88</u>	
LONGITUDE	<u>W 58° 38.07</u>	<u>W 58° 52.14</u>	
SHOTPOINT	<u>0</u>	<u>836</u>	<u>837</u>
FILE #	<u>1</u>	<u>831</u>	<u>831</u>
TAPE #	<u>212</u>	<u>216</u>	<u>5</u>
WATER DEPTH	<u>4925m</u>	<u>4257m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, 4, 27?NEAR OFFSET (M) 190 FAR OFFSET (M) ~~827.5~~^{851.5} CHAN SEP (M) 12.5COURSE 267° SPEED (KTS) SHOT ON (TIME / DIST) REP RATE (S) (M) 30SOURCE INFO 10 airgun array, 2320 in³ @ 2000 psiNAV SYSTEM INFO differential GPSCOMMENTS:

1st shot : SP#0 F#1
 i think → 2nd shot : SP#3 F#2
 3rd shot : SP#4 F#3
 missed 4th, 5th, 6th & 7th shots
 8th shot : SP#0 F#4
 9th shot : SP#10 F#5

COMPASS #06 FAULT¹¹
 mssgs continue

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LINE INFORMATION LOGCRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 192
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shiple/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>169 / 17 JUNE '92</u>	<u>169 / 17 June 92</u>	
TIME(Z)	<u>01:50:32</u>	<u>04:50:20</u>	<u>2:59:48</u>
LATITUDE	<u>N 15° 31.90</u>	<u>N 15 31.9085</u>	
LONGITUDE	<u>W 58° 52.02</u>	<u>W 58 37.7479</u>	
SHOTPOINT	<u>0</u>	<u>835</u>	<u>835</u>
FILE #	<u>1</u>	<u>835</u>	<u>835</u>
TAPE #	<u>277</u>	<u>221</u>	<u>5</u>
WATER DEPTH	<u>4410 m</u>	<u>4927</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3.4
NEAR OFFSET (M) 190 FAR OFFSET (M) ~~827.5~~ 851.5 CHAN SEP (M) 12.5
COURSE 090° SPEED (KTS) 4.7
SHOT ON (TIME / DIST) REP RATE (S) 12-14s (M) 30
SOURCE INFO 10 airgun array, 2320 cu.in. @ 2000 psi
NAV SYSTEM INFO differential G.P.S.COMMENTS:

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PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>169/17 June 92</u>	<u>169/17 June 92</u>	
TIME(Z)	<u>06:39:19</u>	<u>09:34:19</u>	<u>2:55:00</u>
LATITUDE	<u>N 15 30.9404</u>	<u>N 15° 30.78</u>	
LONGITUDE	<u>W 58 38 0393</u>	<u>W 58° 52.35</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>822</u>
FILE #	<u>1</u>	<u>822</u>	<u>822</u>
TAPE #	<u>222</u>	<u>226</u>	<u>5</u>
WATER DEPTH	<u>4928</u>	<u>4261</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 34
NEAR OFFSET (M) 190 FAR OFFSET (M) 851.5
827.5 CHAN SEP (M) 12.5
COURSE 272 SPEED (KTS) 4.7
SHOT ON (TIME / (DIST)) REP RATE (S) 12-14 (M) 30
SOURCE INFO 10 airgun array, 2320 lb³ @ 2000 psi
NAV SYSTEM INFO D GPSCOMMENTS:Compass #06 Fault
"missed NC" between sp # 140 + 142
missed 14 shots (sp # 742 - # 753) "MISSED NC"

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 190
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>169 / 17 June 92</u>	<u>169 / 17 June 92</u>	
TIME(Z)	<u>10:14:29</u>	<u>13:23:33</u>	<u>3:09:04</u>
LATITUDE	<u>N15° 31.89</u>	<u>N15° 31.96</u>	
LONGITUDE	<u>W58° 51.78</u>	<u>W58° 37.97</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>835</u>
FILE #	<u>1</u>	<u>835</u>	<u>835</u>
TAPE #	<u>227</u>	<u>231</u>	<u>5</u>
WATER DEPTH	<u>4399 m</u>	<u>4933 m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, 4, 27?
NEAR OFFSET (M) 190 FAR OFFSET (M) 851.5
827.5 CHAN SEP (M) 12.5
COURSE 96° SPEED (KTS) STN 5.1 / 506 4.5
SHOT ON (TIME / DIST) REP RATE (S) 12-13 (M) 30
SOURCE INFO 10 airgun array, 2320 m³ @ 2000 psi
NAV SYSTEM INFO differential GPS

COMMENTS:

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 226
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>169 17 JUN 92</u>	<u>169 17 June 92</u>	
TIME(Z)	<u>14:28:35</u>	<u>17:22:45</u>	<u>2:54:10</u>
LATITUDE	<u>N 15° 30.99</u>	<u>15 30.999</u>	
LONGITUDE	<u>W 58° 38.03</u>	<u>58 52.40</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>835 (less 17)</u>
FILE #	<u>1</u>	<u>818</u>	<u>818</u>
TAPE #	<u>232</u>	<u>236</u>	<u>5</u>
WATER DEPTH	<u>4926 m</u>	<u>4259</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 851.5 CHAN SEP (M) 12.5
COURSE ~270° SPEED (KTS) 4.25 m/s / 4.6504 downline
SHOT ON (TIME / (DIST)) REP RATE (S) 12-13 (M) 30
SOURCE INFO 10 airgun array, 2320 cu. in. at 2000 psi
NAV SYSTEM INFO Differential GPS

COMMENTS:

Streamer problems - Missed shots 375-377 (3)
509-513 (5)
552-560 (9)
17 shots

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 193 B
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>169 17 June 92</u>		
TIME(Z)	<u>18:07:31</u>	<u>21:03:58</u>	<u>2:56:27</u>
LATITUDE	<u>N 15 31.87</u>	<u>N 15 31.88</u>	
LONGITUDE	<u>W 58 51.81</u>	<u>W 58 37.97</u>	
SHOTPOINT	<u>1044</u>	<u>1877</u>	<u>834</u>
FILE #	<u>1</u>	<u>833</u>	<u>833</u>
TAPE #	<u>237</u>	<u>241</u>	<u>5</u>
WATER DEPTH	<u>4421</u>	<u>4929</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 34
NEAR OFFSET (M) 190 FAR OFFSET (M) 851.5
~~827.5~~ CHAN SEP (M) 12.5
COURSE 100 SPEED (KTS) 4.5
SHOT ON (TIME / DIST) REP RATE (S) 12-14 (M) 30
SOURCE INFO 10 airgun array 2320 in³ @ 2000 psi
NAV SYSTEM INFO Differential GPS

COMMENTS:

shotpoint counter started at # 1044 file # 1
EOL # 193 B @ 21:03:58, SP # 1877 file # 833

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LINE INFORMATION LOGCRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 222
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>169 17 June 92</u>	<u>170 / 18 JUNE 92</u>	
TIME(Z)	<u>21:37:42</u>	<u>00:31:06</u>	<u>2:53:24</u>
LATITUDE	<u>N15° 31.28</u>	<u>N15° 31.09</u>	
LONGITUDE	<u>W58° 38.05</u>	<u>W58° 52.33</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>835</u>
FILE #	<u>1</u>	<u>830</u>	<u>830</u>
TAPE #	<u>242</u>	<u>246</u>	<u>5</u>
WATER DEPTH	<u>4927m</u>	<u>4272m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 851.5 CHAN SEP (M) 12.5
COURSE 266° SPEED (KTS) STW 4.4 / SOG 4.7
SHOT ON (TIME (DIST)) REP RATE (S) 12-14 (M) 30
SOURCE INFO 10 airgun array 2320 in³ @ 2000 psi
NAV SYSTEM INFO differential GPSCOMMENTS:SOL ~ BOT #242 , smooth SOL
"COMPASS #06 FAULT" msgs continue
2303Z BAD TIME BREAK, missed shots (415-419?)

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LINE INFORMATION LOGABORTEDCRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 186
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>170 18 JUN 92</u>	<u>170 18 JUN 92</u>	
TIME(Z)	<u>01:11:35</u>	<u>01:27:01</u>	
LATITUDE	<u>N 15° 32.06</u>	<u>N 15 32.0680</u>	
LONGITUDE	<u>W 58° 51.99</u>	<u>W 58 50.6439</u>	
SHOTPOINT	<u>2</u>	<u>73</u>	
FILE #	<u>1</u>	<u>72</u>	
TAPE #	<u>247</u>	<u>247</u>	
WATER DEPTH	<u>4405</u>	<u>4585</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 8 7.5 CHAN SEP (M) 12.5
851.5
COURSE 098° SPEED (KTS)
SHOT ON (TIME / DIST) REP RATE (S) 12-14 (M) 30
SOURCE INFO 10 airgun array, 2320 cu. in. at 2000 psi
NAV SYSTEM INFO Differential GPSCOMMENTS:aborted due to leak in Gun #9 -
turning to reshoot

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PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>170 18 JUN 92</u>	<u>170 18 JUN 92</u>	
TIME(Z)	<u>02:45:34</u>	<u>03:08:14</u>	
LATITUDE	<u>N 15 32.0540</u>	<u>N 15 32.0890</u>	
LONGITUDE	<u>W 58 52.0409</u>	<u>W 58 49.6139</u>	
SHOTPOINT	<u>2</u>	<u>109</u>	
FILE #	<u>1</u>	<u>104</u>	
TAPE #	<u>248</u>	<u>248</u>	
WATER DEPTH	<u>4389</u>	<u>4621</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) ~~827.5~~ 851.5 CHAN SEP (M) 12.5
COURSE 095 SPEED (KTS) 5.1
SHOT ON (TIME (DIST)) REP RATE (S) 12-14 (M) 30
SOURCE INFO 10 airgun array, 2320 cu. in. at 2000 psi
NAV SYSTEM INFO Differential GPSCOMMENTS: "COMPASS #6 FAULT" messages

SYSTEM CRASHED!!

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 215R
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>170 18 JUN 92</u>	<u>170/18 JUNE'92</u>	
TIME(Z)	<u>03:40:31</u>	<u>03:47:02</u>	
LATITUDE	<u>N 15° 31.29</u>	<u>31:28</u>	
LONGITUDE	<u>N 58° 50.36</u>	<u>50:77</u>	
SHOTPOINT	<u>0</u>	<u>30 L</u>	
FILE #	<u>1</u>	<u>30</u>	
TAPE #	<u>249</u>	<u>249</u>	
WATER DEPTH	<u>4507</u>	<u>4486</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5
COURSE 270° SPEED (KTS) 4.4 STW / 4.2 SOG
SHOT ON (TIME / DIST) REP RATE (S) 12-14 (M) 30
SOURCE INFO 10 airgun array, 2320 cu. in. at 2000 psi
NAV SYSTEM INFO Differential GPS

COMMENTS:

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PROJECT Barbados 3-D AREA Barbados Trench P.I. Shiple/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>170 18 June 92</u>	<u>170 18 June 92</u>	
TIME(Z)	<u>06:09:54</u>	<u>09:14:35</u>	<u>03:04:41</u>
LATITUDE	<u>N 15 32.0641</u>	<u>N 15° 32.10</u>	
LONGITUDE	<u>W 58 52.0277</u>	<u>W 58° 37.80</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>835</u>
FILE #	<u>1</u>	<u>835</u>	<u>835</u>
TAPE #	<u>250</u>	<u>254</u>	<u>5</u>
WATER DEPTH	<u>4392</u>	<u>4432</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5
COURSE 095 SPEED (KTS) 3.8 → 4.3
SHOT ON (TIME / DIST) REP RATE (S) 12-14 (M) 30
SOURCE INFO 10 airgun array, 2320 in³, 2000 psi
NAV SYSTEM INFO Dif. GPSCOMMENTS:New Block Inc. Between sp#152 + 154

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 220
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shiple/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>170 18 June 92</u>	<u>170 18 JUN 92</u>	
TIME(Z)	<u>09:51:49</u>	<u>12:43:23</u>	<u>2:51:34</u>
LATITUDE	<u>N15°31.32</u>	<u>N 15 31.1528</u>	
LONGITUDE	<u>W58°37.84</u>	<u>W 58 52.1837</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>835</u>
FILE #	<u>1</u>	<u>834</u>	<u>834</u>
TAPE #	<u>255</u>	<u>259</u>	<u>5</u>
WATER DEPTH	<u>4930 m</u>	<u>4314</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 517.5 CHAN SEP (M) 12.5
COURSE 207° SPEED (KTS) 4.6 kt. / 506 47
SHOT ON (TIME / DIST) REP RATE (S) 12-15 (M) 30
SOURCE INFO 10 airgun array, 2320 m³ @ 2000 psi
NAV SYSTEM INFO differential GPS

COMMENTS: no shot 343 - missed NC

~1115Z gun #17 stopped firing (confirmed by gunners)
~SP #400 #17 170ci

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 184
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>170 18 JUN 92</u>	<u>170 18 June 92</u>	
TIME(Z)	<u>14:24:54</u>	<u>17:18:59</u>	<u>2:54:05</u>
LATITUDE	<u>N 15° 32.11</u>	<u>N 15 32.13</u>	
LONGITUDE	<u>W 58° 52.01</u>	<u>W 58 37.75</u>	
SHOTPOINT	<u>2</u>	<u>62</u>	<u>828</u>
FILE #	<u>1</u>	<u>827</u>	<u>827</u>
TAPE #	<u>260</u>	<u>264</u>	<u>5</u>
WATER DEPTH	<u>4398</u>	<u>4929</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 ^{847.5} CHAN SEP (M) 12.5
COURSE ~90° SPEED (KTS) 4.6 SW / 4.7 SE
SHOT ON (TIME / (DIST)) REP RATE (S) 12-14 (M) 30
SOURCE INFO 10 airgun array, 2320 cu. in. at 2000 psi
NAV SYSTEM INFO Differential GPS

COMMENTS:

1540Z : gun#3 going crazy - loss of air pressure for several minutes (~1500 psi)
1658Z gun#3 going again
17:06 New Block Inc - lost ~ 10 shots
1712 before guns were spaced, so have shotpoint counter reset to 3
gap from 1706 to 1712

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 216
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>170 18 June 92</u>	<u>170 18 June 92</u>	
TIME(Z)	<u>17:57:22</u>	<u>20:54:54</u>	<u>2:57:32</u>
LATITUDE	<u>N 15 31.26</u>	<u>N 15° 31.15</u>	
LONGITUDE	<u>W 58 38.03</u>	<u>W 58° 51.99</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>835</u>
FILE #	<u>1</u>	<u>835</u>	<u>835</u>
TAPE #	<u>265</u>	<u>269</u>	<u>5</u>
WATER DEPTH	<u>4932</u>	<u>4799m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 34
NEAR OFFSET (M) 120 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5
COURSE 264 SPEED (KTS) 4.5
SHOT ON (TIME / DIST) REP RATE (S) 12-14 (M) 30
SOURCE INFO 10 airgun array, 2320 in³ @ 200psi
NAV SYSTEM INFO Diff. GPS
COMMENTS: Gun # 20 misfires 4 x ≈ sp # 633

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PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>170 18 June 92</u>	<u>171 19 JUN 92</u>	
TIME(Z)	<u>04:53:54</u>	<u>~ 00:17</u>	<u>02:24</u>
LATITUDE	<u>N 15 32.13</u>	<u>N 15 32.1039</u>	
LONGITUDE	<u>W 58 52.00</u>	<u>W 58 39.8394</u>	
SHOTPOINT	<u>2</u>	<u>708</u>	<u>707</u>
FILE #	<u>1</u>	<u>707</u>	<u>707</u>
TAPE #	<u>183A 270</u>	<u>273</u>	<u>4</u>
WATER DEPTH	<u>4419.0 m</u>	<u>5011 m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5
COURSE 90° SPEED (KTS) 4.9 kt
SHOT ON (TIME / DIST) REP RATE (S) 12-14 (M) 30
SOURCE INFO 10 argon array 12320 m³ @ 2000 psi
NAV SYSTEM INFO differential GPSCOMMENTS:2314Z gun #18 NOT FIRING OCCASIONALLY NSR #400

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Re-shoot last part of 184 LINE INFORMATION LOGCRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 184 R
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shiple/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>171 / 19 June '92</u>	<u>171 / 19 June '92</u>	
TIME(Z)	<u>00:17:25</u>	<u>32 00:41:58</u>	<u>00:23:33</u>
LATITUDE	<u>N 15° 32.12</u>	<u>N 15° 32.12</u>	
LONGITUDE	<u>W 58° 39.94</u>	<u>W 58° 37.81</u>	
SHOTPOINT	<u>0</u>	<u>121</u>	<u>122</u>
FILE #	<u>1</u>	<u>119</u>	<u>119</u>
TAPE #	<u>274</u>	<u>274</u>	<u>1</u>
WATER DEPTH	<u>5011 m</u>	<u>4928 m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) ^{847.5}~~827.5~~ CHAN SEP (M) 12.5
COURSE 091° SPEED (KTS) 5.2
SHOT ON (TIME / (DIST)) REP RATE (S) 12-14 (M) 30
SOURCE INFO 10 airgun array, 2320 cu. in. at 2000 psi
NAV SYSTEM INFO Differential GPSCOMMENTS:

- Reshoot of last portion of 184
- SP# starts at 0 but shooting is well along 184

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PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>171/19 June '92</u>	<u>171/19 June '92</u>	
TIME(Z)	<u>01:19:28</u>	<u>04:12:53</u>	<u>2:53:25</u>
LATITUDE	<u>N 15° 31.32</u>	<u>N 15 31.3105</u>	
LONGITUDE	<u>W 58° 38.04</u>	<u>W 58 52.0454</u>	
SHOTPOINT	<u>2</u>	<u>837</u>	<u>836</u>
FILE #	<u>1</u>	<u>836</u>	<u>836</u>
TAPE #	<u>275</u>	<u>279</u>	<u>5</u>
WATER DEPTH	<u>4929m</u>	<u>4258</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5
COURSE 268 SPEED (KTS) 4.4
SHOT ON (TIME / DIST) REP RATE (S) 12-17 (M) 30
SOURCE INFO 10 airgun array, 2320 cu.in. @ 2000 psi
NAV SYSTEM INFO differential GPSCOMMENTS:

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PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>171 / 19 June 92</u>	<u>171 / 19 June 92</u>	
TIME(Z)	<u>04:52:25</u>	<u>07:57:18</u>	<u>3:04:53</u>
LATITUDE	<u>N 15 32 22.35</u>	<u>N 15° 32. 2272</u>	
LONGITUDE	<u>W 58 52 03.17</u>	<u>W 58° 38. 00768</u>	
SHOTPOINT	<u>0</u>	<u>837</u>	<u>833</u>
FILE #	<u>1</u>	<u>833</u>	<u>833</u>
TAPE #	<u>280</u>	<u>284</u>	<u>5</u>
WATER DEPTH	<u>4414</u>	<u>4931</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 34
NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5
COURSE 94 SPEED (KTS) 4.3
SHOT ON (TIME / DIST) REP RATE (S) 12-14 (M) 30
SOURCE INFO 10 airgun array, 2320 lb³ @ 2000 psi
NAV SYSTEM INFO Diff. GPSCOMMENTS:NavBlock Inc. file #201
312 Missed 1 shot
314 Missed 2 shots
Missed 2 shots
Missed Nc - Missed sp # 368

COMMENTS:

1st shot: SP #10 F#1
2nd shot: SP ~~13~~ F#2

decided to continue runout line & fire on
some ~~at~~ ~~beginning~~ beginning of would-be EOL, {12.9 sec incl.
13.0

- lost shots after SP# 1013, 1217z
- lost shots after SP# 1109, 1239z - changeover back to fire-by-distance
- lost shots after SP# ~~1250~~ 1156, 1250z

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 178
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>171 19 JUN 92</u>	<u>171 June 92</u>	
TIME(Z)	<u>14:53:51</u>	<u>17:52:56</u>	<u>2:59:05</u>
LATITUDE	<u>N 15 32.2770</u>	<u>N 15 32 32.2826</u>	
LONGITUDE	<u>W 58 51.9777</u>	<u>W 58 38.9817</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>835</u>
FILE #	<u>1</u>	<u>834</u>	<u>834</u>
TAPE #	<u>292</u>	<u>296</u>	<u>5</u>
WATER DEPTH	<u>4410</u>	<u>4934</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) ~~827.5~~ 847.5 CHAN SEP (M) 12.5
COURSE 092° SPEED (KTS) 3.7
SHOT ON (TIME (DIST)) REP RATE (S) 12-14 (M) 30
SOURCE INFO 10 airgun array, 2320 cu.in. at 2000 psi
NAV SYSTEM INFO Differential GPS

COMMENTS:

missed sp#32
~sp#475 pulled out gun #1 put back in ~sp#708

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~25 shots

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LINE INFORMATION LOGCRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 217A
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shiple/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>171 19 June 92</u>	<u>171 19 June 92</u>	
TIME(Z)	<u>18:32:46</u>	<u>18:37:58</u>	<u>0:05:12</u>
LATITUDE	<u>N 15 31.2370</u>	<u>N 15° 31.2358</u>	
LONGITUDE	<u>W 58 38.0316</u>	<u>W 58° 38.4672</u>	
SHOTPOINT	<u>0</u>	<u>26 27</u>	<u>26</u>
FILE #	<u>1</u>	<u>25 26</u>	<u>26</u>
TAPE #	<u>297</u>	<u>297</u>	<u>1</u>
WATER DEPTH	<u>4933 4905</u>	<u>4925</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3.4
NEAR OFFSET (M) 190 FAR OFFSET (M) ~~827.5~~ 847.5 CHAN SEP (M) 12.5
COURSE 267 SPEED (KTS) 4.4
SHOT ON (TIME / (DIST)) REP RATE (S) 12-14 (M) 30
SOURCE INFO 10 airgun array, 2320 m³ @ 2000 psi
NAV SYSTEM INFO Diff GPSCOMMENTS:No shot # 1+2

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 209 B
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>171 19 June 92</u>	<u>171 19 JUNE 92</u>	
TIME(Z)	<u>18:50:20</u>	<u>21:33:41</u>	<u>2:43:21</u>
LATITUDE	<u>N 15 31.4489</u>	<u>N 15 31.47</u>	
LONGITUDE	<u>W 58 39.4266</u>	<u>W 58 52.40</u>	
SHOTPOINT	<u>0</u>	<u>755</u>	<u>756</u>
FILE #	<u>1</u>	<u>753</u>	<u>753</u>
TAPE #	<u>298</u>	<u>301</u>	<u>4</u>
WATER DEPTH	<u>4981</u>	<u>4244</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5
COURSE 264 SPEED (KTS) 4.7
SHOT ON (TIME / (DIST)) REP RATE (S) 12-14 (M) 12.5
SOURCE INFO 10 airgun array, 2320 in³ @ 2000 psi
NAV SYSTEM INFO Diff GPS

COMMENTS: New Block Inc. up to sp #9 (File # 1-7)
Missed NC No sp # 24 + 25

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 170
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>171 / 19 JUNE 92</u>	<u>172 / 20 June 92</u>	
TIME(Z)	<u>22:12:56</u>	<u>01:19:15</u>	<u>3:06:19</u>
LATITUDE	<u>N15° 32.13</u>	<u>N15° 32.34</u>	
LONGITUDE	<u>W58° 51.72</u>	<u>W58° 37.97</u>	
SHOTPOINT	<u>0</u>	<u>836</u>	<u>837</u>
FILE #	<u>1</u>	<u>835</u>	<u>835</u>
TAPE #	<u>302</u>	<u>306</u>	<u>5</u>
WATER DEPTH	<u>4411m</u>	<u>4943m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2ms # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE 98° SPEED (KTS) SW 4.5/506
SHOT ON (TIME / (DIST)) REP RATE (S) 12 - 15 (M) 30
SOURCE INFO 10 gun array, 2320 in³, @ 2000 psi.
NAV SYSTEM INFO Differential GPS

COMMENTS:

1st shot: SP#0 F#1

2nd shot: SP#3 F#2

Nav block incomplete for file # 76, 298, 482-485 inc., 492, 499,

717

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 208
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>172 20 JUN 92</u>	<u>172 20 June 92</u>	
TIME(Z)	<u>01:53:07</u>	<u>01:56:40</u>	<u>00:03:39</u>
LATITUDE	<u>N 15° 31.47</u>	<u>N 15° 31.47</u>	
LONGITUDE	<u>W 58° 38.05</u>	<u>W 58° 38.51</u>	
SHOTPOINT	<u>-</u>	<u>22</u>	<u>22 ?</u>
FILE #	<u>-</u>	<u>12</u>	<u>12 ?</u>
TAPE #	<u>307</u>	<u>307</u>	<u>1</u>
WATER DEPTH	<u>?</u>	<u>?</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 ms # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE 090 SPEED (KTS) ~6 kts OTG
SHOT ON (TIME (DIST)) REP RATE (S) 12-15 (M) 30
SOURCE INFO 10 airgun array, 2320 cu. in. at 2000 psi
NAV SYSTEM INFO Differential GPS

COMMENTS:

- were going too fast (>6 kts OTG) giving too short
on SP interval for system ∴ lost shots

- abandon line and restart

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 208A
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shiple/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>172 20JUN 92</u>	<u>172 20June92</u>	
TIME(Z)	<u>03:05:49</u>	<u>06:10:50</u>	<u>3:05:01</u>
LATITUDE	<u>N 15° 31.48</u>	<u>N 15 31.4608'</u>	
LONGITUDE	<u>W 58° 38.03</u>	<u>W 58 52.0614'</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	
FILE #	<u>1</u>	<u>833</u>	
TAPE #	<u>308</u>	<u>312</u>	<u>5</u>
WATER DEPTH	<u>4921 m</u>	<u>4251</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2ms # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5
COURSE ~270° SPEED (KTS) 4.5 kts BTG / 4.3 stw
SHOT ON (TIME (DIST)) REP RATE (S) 12-15 (M) 30
SOURCE INFO 10 airgun array, 2320 cu. in. at 2000 psi
NAV SYSTEM INFO Differential GPS

COMMENTS:

Missed Nc sp#177
" " no sp#396

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LINE INFORMATION LOGCRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 175A
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>172 20 June 92</u>	<u>172 60 JUNE 92</u>	
TIME(Z)	<u>06:53:37</u>	<u>09:58:08</u>	<u>3:04:31</u>
LATITUDE	<u>N 15° 32.3532</u>	<u>N 15 32.33</u>	
LONGITUDE	<u>W 58° 52.0172</u>	<u>W 58 37.58</u>	
SHOTPOINT	<u>0</u>	<u>836</u>	<u>837</u>
FILE #	<u>1</u>	<u>835</u>	<u>835</u>
TAPE #	<u>313</u>	<u>317</u>	<u>5</u>
WATER DEPTH	<u>4408</u>	<u>4944</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2ms # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5
COURSE 104 SPEED (KTS) 4.1
SHOT ON (TIME / DIST) REP RATE (S) 12-15 (M) 30
SOURCE INFO 10 airgun array, 2320 in³ @ 2000 psi
NAV SYSTEM INFO D.f. GPSCOMMENTS:No sp# 1 + 2
Nav Block Inc. No sp# 62, 63, 186, 187, 221, 222, 224, 225, 226
260, 261

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 204
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>172 / 20 JUN 92</u>	<u>172 / 20 June '92</u>	
TIME(Z)	<u>10:34:11</u>	<u>13:34:54</u>	<u>3:00:43</u>
LATITUDE	<u>N 15 31.5775</u>	<u>N 15 31.56</u>	
LONGITUDE	<u>W 58 38.0966</u>	<u>W 58 51.54</u>	
SHOTPOINT	<u>02</u>	<u>828</u>	<u>827</u>
FILE #	<u>61</u>	<u>827</u>	<u>827</u>
TAPE #	<u>318</u>	<u>828 322</u>	<u>5</u>
WATER DEPTH	<u>4923</u>	<u>4280</u>	

REC LENGTH (S) 9.5 SAMP INT (MSEC) 2ms # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, 4
NEAR OFFSET (M) 190 FAR OFFSET (M) ^{447.5} 827.5 CHAN SEP (M) 12.5
COURSE 258° SPEED (KTS) STW 4.6 / SOG 4.4
SHOT ON (TIME / DIST) REP RATE (S) 12-14 (M) 30
SOURCE INFO 10 gun array, 2320 in³, @ 2000 psi
NAV SYSTEM INFO Differential GPS

COMMENTS:

- Lose DGPS ~ 1327z ~ SP#804 → fire-by-time mode
- Nav. system in fire-by-time mode but trigger pulse doesn't fire the guns for some reason - lose a lot of shots between SP#820 and SP#828 (1331z - 1334z)

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 172
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>172 20 JUN 92</u>	<u>172 20 June 92</u>	
TIME(Z)	<u>14:33:11</u>	<u>17:36:40</u>	<u>3:03:29</u>
LATITUDE	<u>N 15° 32.43</u>	<u>N 15° 32.4391</u>	
LONGITUDE	<u>W 58° 52.02</u>	<u>W 58° 38.9969</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>835</u>
FILE #	<u>1</u>	<u>835</u>	<u>835</u>
TAPE #	<u>323</u>	<u>327</u>	<u>5</u>
WATER DEPTH	<u>4416m</u>	<u>4945</u>	

REC LENGTH (S) 9s SAMP INT (MSEC) 2ms # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5
COURSE 096° SPEED (KTS) 4.7
SHOT ON (TIME / DIST) REP RATE (S) 12-14 (M) 30
SOURCE INFO 10 airgun array, 2320 cu. in. at 2000 psi
NAV SYSTEM INFO Differential GPS

COMMENTS: (1) Compass fault (in #1-5) : please see MCS log.
after EP #602

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LINE INFORMATION LOGCRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 198
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>172 20 Jun 92</u>	<u>172 20 Jun 92</u>	
TIME(Z)	<u>18:26:25</u>	<u>21:30:06</u>	<u>3:03:40</u>
LATITUDE	<u>N 15° 31.744</u>	<u>N 15° 31.89</u>	
LONGITUDE	<u>W 58° 38.0769</u>	<u>W 58° 52.25</u>	
SHOTPOINT	<u>0</u>	<u>836</u>	<u>837</u>
FILE #	<u>1</u>	<u>835</u>	<u>835</u>
TAPE #	<u>328</u>	<u>332</u>	<u>5</u>
WATER DEPTH	<u>4921</u>	<u>4316</u>	

REC LENGTH (S) 9 seconds SAMP INT (MSEC) 2 # CHANNELS 52SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5COURSE 257 SPEED (KTS) 4.4SHOT ON (TIME (DIST)) REP RATE (S) 12-14 sec (M) 30SOURCE INFO 10 - AIRGUN ARRAY, 2320 in³ AT 2000 PSI PRESSURENAV SYSTEM INFO DIFFERENTIAL GPSCOMMENTS:

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 170
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>172 20 JUNE 92</u>	<u>173 21 JUNE 92</u>	
TIME(Z)	<u>22:19:29</u>	<u>01:28:35</u>	
LATITUDE	<u>N 15° 32.4826</u>	<u>N 15° 32.50</u>	
LONGITUDE	<u>W 58° 51.9962</u>	<u>W 58° 38.00</u>	
SHOTPOINT	<u>02</u>	<u>823</u>	
FILE #	<u>01</u>	<u>822</u>	
TAPE #	<u>329</u>	<u>337</u>	
WATER DEPTH	<u>4451</u>	<u>4943</u>	

REC LENGTH (S) 09.5 SAMP INT (MSEC) 02 ms # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, 4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE 103 SPEED (KTS) 4.1
SHOT ON (TIME/DIST) ⑤ REP RATE (S) 11-15 sec (M) 30
SOURCE INFO 10 airgun array 2320 in³, @ 2000 psi
NAV SYSTEM INFO Differential GPS

COMMENTS:

- SPEED & CABLE DEPTHS VERY UNSTABLE
- numerous (~14?) missed shots between SP# 446, 447 (triggered by DGPS down @ 0000Z)

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 233
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>173 / 21 June '92</u>	<u>173 21 June 92</u>	
TIME(Z)	<u>02:23:32</u>	<u>05:26:53</u>	<u>3:03:21</u>
LATITUDE	<u>N 15° 30.80</u>	<u>N 15° 30.8016</u>	
LONGITUDE	<u>W 58° 38.04</u>	<u>W 58° 38 52.0655</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>834</u>
FILE #	<u>1</u>	<u>834</u>	<u>834</u>
TAPE #	<u>338</u>	<u>342</u>	<u>5</u>
WATER DEPTH	<u>4926</u>	<u>4271</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE ~270° SPEED (KTS) 4.6504 / 4.7571
SHOT ON (TIME / DIST) REP RATE (S) 12-14 (M) 30
SOURCE INFO 10 airgun array, 2320 cu.in. @ 2000psi
NAV SYSTEM INFO differential GPS

COMMENTS:

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 163
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>173 21 June 92</u>	<u>173 21 JUNE 92</u>	
TIME(Z)	<u>06:25:15</u>	<u>09:28:14</u>	<u>3:02:59</u>
LATITUDE	<u>N 15 32.6751</u>	<u>N 15 32.6864</u>	
LONGITUDE	<u>W 58 52.0316</u>	<u>W 58 37.2526</u>	
SHOTPOINT	<u>0</u>	<u>836</u>	<u>837</u>
FILE #	<u>1</u>	<u>834</u>	<u>834</u>
TAPE #	<u>343</u>	<u>347</u>	<u>5</u>
WATER DEPTH	<u>4449</u>	<u>4941</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 34
NEAR OFFSET (M) 190 FAR OFFSET (M) 1827.5 CHAN SEP (M) 12.5
COURSE ~90° SPEED (KTS) 4.3
SHOT ON (TIME/DIST) () REP RATE (S) 12-14 (M) 30
SOURCE INFO 10 airgun array, 2320 in³ @ 2000 psi
NAV SYSTEM INFO D-H GPS

COMMENTS:

No sp# 1 & 2
Nav Block Inc. - missed sp# 22, 23, 24, 218
1.
Gun # 18 stops firing at 0746Z, sp# 376
Pulling Gun # 18 sp# 427

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LINE INFORMATION LOGCRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 234
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shiple/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>173 /21 JUNE 92</u>	<u>173 /21 June'92</u>	
TIME(Z)	<u>10:19:48</u>	<u>13:17:34</u>	<u>2:57:46</u>
LATITUDE	<u>N 15 30.7912</u>	<u>N 15° 30.77</u>	
LONGITUDE	<u>W 58 38.0464</u>	<u>W 58° 52.04</u>	
SHOTPOINT	<u>02</u>	<u>836</u>	<u>835</u>
FILE #	<u>01</u>	<u>833</u>	<u>833</u>
TAPE #	<u>348</u>	<u>352</u>	<u>5</u>
WATER DEPTH	<u>4925</u>	<u>4284</u>	

REC LENGTH (S) 2 SAMP INT (MSEC) 2ms # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-54 PROBLEM CHANS 3, 4
NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5
COURSE ~270° SPEED (KTS) 4.3
SHOT ON (TIME (DIST)) REP RATE (S) 12-15 (M) 30
SOURCE INFO 10 GUN array, 2320 m³ @ 2000 psi
NAV SYSTEM INFO Differential GPS.COMMENTS:1128z missed SP# 315
1133z missed SP# 334

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 165
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shiple/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>173 / 21 June '92</u>	<u>173 21 June 92</u>	
TIME(Z)	<u>14:21:01</u>	<u>17:40:42</u>	<u>3:19:41</u>
LATITUDE	<u>N 15° 32.62</u>	<u>N 15° 32.6294</u>	
LONGITUDE	<u>W 58° 52.02</u>	<u>W 58° 38.0030</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>835</u>
FILE #	<u>1</u>	<u>835</u>	<u>835</u>
TAPE #	<u>353</u>	<u>357</u>	<u>5</u>
WATER DEPTH	<u>4443 m</u>	<u>4935 m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5
COURSE ~090° SPEED (KTS) 4.3 stw /
SHOT ON (TIME / DIST) REP RATE (S) ~13s (M) 30
SOURCE INFO 10 airgun array, 2320 cu.in., 2000psi
NAV SYSTEM INFO differential GPS

COMMENTS:

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 235
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>173 / JUNE 21, '92</u>	<u>173 / 21 JUNE 92</u>	
TIME(Z)	<u>18:41:52</u>	<u>21:55:01</u>	<u>3:13:09</u>
LATITUDE	<u>N 15° 30.7569'</u>	<u>N 15° 30.60</u>	
LONGITUDE	<u>W 58° 38.0468'</u>	<u>W 58° 51.95</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>835</u>
FILE #	<u>1</u>	<u>835</u>	<u>835</u>
TAPE #	<u>358</u>	<u>362</u>	<u>5</u>
WATER DEPTH	<u>4926</u>	<u>4285</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52

SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3 8 4

NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5

COURSE 264° SPEED (KTS) ~4.3

SHOT ON (TIME (DIST)) REP RATE (S) ~13 sec (M) 30

SOURCE INFO 10 - AIRGUN ARRAY, 2320 in³ @ 2000 psi pressure

NAV SYSTEM INFO DIFFERENTIAL GPS

COMMENTS:

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 167
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shiple/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>173/21 June 92</u>	<u>174 22 JUN 92</u>	
TIME(Z)	<u>22:42:10</u>	<u>01:53:55</u>	
LATITUDE	<u>N15° 32.20</u>	<u>N 15 32.5740</u>	
LONGITUDE	<u>W58° 51.45</u>	<u>W 58 37.9070</u>	
SHOTPOINT	<u>0</u>	<u>836</u>	
FILE #	<u>1</u>	<u>833</u>	
TAPE #	<u>363</u>	<u>367</u>	
WATER DEPTH	<u>4448</u>	<u>4949</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52

SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4

NEAR OFFSET (M) 190 FAR OFFSET (M) 547.5 CHAN SEP (M) 12.5

COURSE 94° SPEED (KTS) STW 4.8 / SOG 4.4

SHOT ON (TIME / DIST) REP RATE (S) 12-14 (M) 30

SOURCE INFO 10 airgun array 2320 m³ @ 2000 psi

NAV SYSTEM INFO Differential GPS

COMMENTS: 1st 4 shots: SP#0, F#1, #2, #3, #4

5th shot: SP#6, F#5

"NAV Block INC." FOR 7 SHOTS: SP#26 → SP#32

miss shot #146

OVN #20 STOPPED FIRING @ 2235Z (N SP#238)
BROKEN HOSE / PULLING FOR REPAIRS
Back in @ 0035Z

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 236
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>174 22 JUN 92</u>	<u>174 22 June 92</u>	
TIME(Z)	<u>02:51:34</u>	<u>05:54:46</u>	<u>3:03:12</u>
LATITUDE	<u>N 15° 30.73</u>	<u>15.30.73</u>	
LONGITUDE	<u>W 58° 38.03</u>	<u>58 52.40</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>834</u>
FILE #	<u>1</u>	<u>834</u>	<u>834</u>
TAPE #	<u>368</u>	<u>372</u>	<u>5</u>
WATER DEPTH	<u>4924 m</u>	<u>4264</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE ~ 270° SPEED (KTS) 4.1 stw / 4.4 sog
SHOT ON (TIME / DIST) REP RATE (S) 12-14 (M) 30
SOURCE INFO 10 airgun array, 2320 cu.in. at 2000 psi
NAV SYSTEM INFO Differential GPS

COMMENTS:

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 168 A
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>174 / JUNE 22, '92</u>	<u>174 / 22 JUNE 92</u>	
TIME(Z)	<u>06:58:16</u>	<u>10:12:32</u>	<u>3:14:16</u>
LATITUDE	<u>N 15° 32.5429'</u>	<u>N 15 32.5572</u>	
LONGITUDE	<u>W 58° 51.0811</u>	<u>W 58 37.7726</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>835</u>
FILE #	<u>1</u>	<u>835</u>	<u>855</u>
TAPE #	<u>373</u>	<u>377</u>	<u>5</u>
WATER DEPTH	<u>4429</u>	<u>4939</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52

SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4

NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5

COURSE 097° SPEED (KTS) 4.3 SOG

SHOT ON (TIME / (DIST)) REP RATE (S) ~ 14 sec (M) ~ 30 m

SOURCE INFO 10 - AIRGUN ARRAY ; 2320 in³ @ 2000 psi pressure

NAV SYSTEM INFO DIFFERENTIAL GPS

COMMENTS:

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 237
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>174 /22 JUNE 92</u>	<u>174 22 JUN 92</u>	
TIME(Z)	<u>11:01:10</u>	<u>13:24:51</u>	<u>2:23:41</u>
LATITUDE	<u>N 15 30.7005</u>	<u>N 15 30.6953</u>	
LONGITUDE	<u>W 58 38.0790</u>	<u>W 58 48.3499</u>	
SHOTPOINT	<u>2</u>	<u>674</u>	<u>673</u>
FILE #	<u>1</u>	<u>672</u>	<u>672</u>
TAPE #	<u>378</u>	<u>381</u>	<u>4</u>
WATER DEPTH		<u>4523</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, d
NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5
COURSE SPEED (KTS)
SHOT ON (TIME (DIST)) REP RATE (S) 12-15 s (M) 30
SOURCE INFO 10 2000m array, 2320 in³, @ 2000psi
NAV SYSTEM INFO 3-D differential GPS

COMMENTS:

- missed shot SP#93
- 1147z, SP#223 Gun#18 stopped firing - pulled @ 1204z
- 1301z, SP#567 Gun#18 back firing
- finish line before usual EOL after DGPS down (1319z)

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 NB This line is a re-shoot
 and starts part-way
 along original line

LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 183 B
 PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>174 22 JUN 92</u>	<u>174 22 June 92</u>	
TIME(Z)	<u>14:17:53</u>	<u>16:41:12</u>	<u>2:24:19</u>
LATITUDE	<u>N 15° 32.14</u>	<u>N 15 32.15</u>	
LONGITUDE	<u>W 58° 48.12</u>	<u>W 58 37.98</u>	
SHOTPOINT	<u>0</u>	<u>646</u>	<u>645</u>
FILE #	<u>1</u>	<u>645</u>	<u>645</u>
TAPE #	<u>382</u>	<u>385</u>	<u>4</u>
WATER DEPTH	<u>4657 m</u>	<u>4928</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
 SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
 NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
 COURSE 096° SPEED (KTS) 4.3
 SHOT ON (TIME / DIST) REP RATE (S) 12-15s (M) 30
 SOURCE INFO 10 airgun array, 2320 cu. in. at 2000 psi
 NAV SYSTEM INFO Differential GPS

COMMENTS: Reshoot - starts part-way along original line track
 First 8 files (file #1-8) are "Nav block incomplete", SP#0

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PROJECT Barbados 3-D AREA Barbados Trench P.I. Shiple/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>174 22 June 92</u>	<u>174 22 JUNE 92</u>	
TIME(Z)	<u>17:33:21</u>	<u>20:12:37</u>	<u>2:39:16</u>
LATITUDE	<u>N 15 30.67</u>	<u>N 15 30.6566</u>	
LONGITUDE	<u>W 58 38.03</u>	<u>W 58 50.2858</u>	
SHOTPOINT	<u>0</u>	<u>727</u>	<u>726</u>
FILE #	<u>1</u>	<u>726</u>	<u>726</u>
TAPE #	<u>386</u>	<u>389</u>	
WATER DEPTH	<u>4924</u>	<u>4441</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5
827.5 CHAN SEP (M) 12.5
COURSE 265 SPEED (KTS) 4.6
SHOT ON (TIME / DIST) REP RATE (S) 12-15.5 (M) 30
SOURCE INFO 10 airgun array, 2320 m³ @ 2000 psi
NAV SYSTEM INFO Differential GPSCOMMENTS: Shortened line for deployment of OBSs.

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 237 A
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>175 23 JUN 92</u>	<u>175 23 June '92</u>	
TIME(Z)	<u>00:21:09</u>	<u>01:36:23</u>	<u>1:15:14</u>
LATITUDE	<u>N 15° 30.70</u>	<u>N 15° 30.70</u>	
LONGITUDE	<u>W 58° 46.42</u>	<u>W 58° 52.15</u>	
SHOTPOINT	<u>3</u>	<u>338</u>	<u>336</u>
FILE #	<u>1</u>	<u>335</u>	<u>335</u>
TAPE #	<u>390</u>	<u>391</u>	<u>2</u>
WATER DEPTH	<u>4741</u>	<u>4281</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE SPEED (KTS)
SHOT ON (TIME / DIST) REP RATE (S) 12-15 (M) 30
SOURCE INFO 10 airgun array, 2320 cu. in. at 2000 psi
NAV SYSTEM INFO Differential GPS

COMMENTS: This is a partial reshoot of the original line.

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 178 A
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shiple/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>175 23 JUN 92</u>	<u>175 23 Jun 92</u>	
TIME(Z)	<u>02:29:26</u>	<u>05:36:48</u>	<u>3:07:22</u>
LATITUDE	<u>N 15° 32.20</u>	<u>N 15° 32.2815'</u>	
LONGITUDE	<u>W 58° 52.02</u>	<u>W 58° 37.9994'</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>835</u>
FILE #	<u>1</u>	<u>835</u>	<u>835</u>
TAPE #	<u>392</u>	<u>396</u>	<u>5</u>
WATER DEPTH	<u>4413 m</u>	<u>4938</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5
COURSE 093° SPEED (KTS) 4.1
SHOT ON (TIME / DIST) REP RATE (S) 12-15 (M) 30
SOURCE INFO 10 airgun array, 2320 cu. in. at 2000 psi
NAV SYSTEM INFO Differential GPS

COMMENTS:

0250Z, SP# 93 labelled SP#0, Bad TB, Nav. block incomplete
0414Z Bad TB - No shot # 460 Fired
0437 " No shot # 564

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 202
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>175 / JUNE 23, '92</u>	<u>175</u>	
TIME(Z)	<u>06:18:33</u>	<u>09:18:34</u>	
LATITUDE	<u>N 15° 31.6307</u>	<u>N 15 31.7285</u>	
LONGITUDE	<u>W 58° 38.0585</u>	<u>W 58 52.6739</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	
FILE #	<u>1</u>	<u>635</u>	
TAPE #	<u>398</u>	<u>402</u>	
WATER DEPTH	<u>4926</u>	<u>4258</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, 4
NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5
COURSE 270° SPEED (KTS) ~ 4.3
SHOT ON (TIME / DIST) REP RATE (S) ~ 13 sec (M) ~ 30 m
SOURCE INFO 10 - AIRGUN ARRAY; 2320 in³ @ 2000 Psi Pressure
NAV SYSTEM INFO DIFFERENTIAL GPS.

COMMENTS:

NO TAPE # 397

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 161A
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shiple/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>175/23 June 92</u>	<u>175/23 June</u>	
TIME(Z)	<u>09:57:49</u>	<u>12:59:06</u>	<u>3:01:17</u>
LATITUDE	<u>N 15 32.7284</u>	<u>N 15 32.74</u>	
LONGITUDE	<u>W 58 52.0890</u>	<u>W 58 37.95</u>	
SHOTPOINT	<u>02</u>	<u>836</u>	<u>835</u>
FILE #	<u>01</u>	<u>834</u>	<u>834</u>
TAPE #	<u>175-404</u>	<u>408</u>	<u>5</u>
WATER DEPTH	<u>4456</u>	<u>4958</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE 096 SPEED (KTS) 4.3
SHOT ON (TIME (DIST)) REP RATE (S) (12-15 s) (M) 30
SOURCE INFO 10 airgun array, 2320 m @ 2000 psi
NAV SYSTEM INFO differential GPS

COMMENTS:

missed NC, no SP #87

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 200
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	²³ <u>175 JUN 93</u>	²³ <u>175 June 92</u>	
TIME(Z)	<u>14:36:53</u>	<u>17:35:05</u>	<u>2:59:12</u>
LATITUDE	<u>N 15 31.6770</u>	<u>N 15° 31.6827'</u>	
LONGITUDE	<u>W 58 38.1047</u>	<u>W 58° 52.1183'</u>	
SHOTPOINT	<u>0</u>	<u>836</u>	<u>835</u>
FILE #	<u>1</u>	<u>835</u>	<u>835</u>
TAPE #	<u>411</u>	<u>415</u>	<u>5</u>
WATER DEPTH	<u>4923</u>	<u>4301</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52

SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4

NEAR OFFSET (M) 190 FAR OFFSET (M) ^{547.5}827.5 CHAN SEP (M) 12.5

COURSE 269 SPEED (KTS) 4.5

SHOT ON (TIME (DIST)) REP RATE (S) 12-15 (M) 30

SOURCE INFO 10 airgun array, 2320 cu.in. at 2000 psi

NAV SYSTEM INFO Differential GPS

COMMENTS:

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LINE INFORMATION LOGCRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 174
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>175 23 June</u>	<u>175 23 JUN 92</u>	
TIME(Z)	<u>18:15:40</u>	<u>21:15:16</u>	<u>2:59:36</u>
LATITUDE	<u>N 15°32.3825</u>	<u>N 15 32.4253</u>	
LONGITUDE	<u>W 58°52.0221</u>	<u>W 58 38.0109</u>	
SHOTPOINT	<u>0</u>	<u>836</u>	<u>835</u>
FILE #	<u>1</u>	<u>835</u>	<u>835</u>
TAPE #	<u>416</u>	<u>420</u>	<u>5</u>
WATER DEPTH	<u>4412</u>	<u>4940</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 849.5
~~827.5~~ CHAN SEP (M) 12.5
COURSE 89 SPEED (KTS) 4.6
SHOT ON (TIME / DIST) REP RATE (S) 12-15 (M) 30
SOURCE INFO 10 airgun array, 2320 in³ @ 2000 psi
NAV SYSTEM INFO Differential GPSCOMMENTS:No sp #1+2
No sp #136 - New Block

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LINE INFORMATION LOGCRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 206
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shiple/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>175/23 JUN 92</u>	<u>176 24 JUN 92</u>	
TIME(Z)	<u>23:11:02</u>	<u>02:14:50</u>	<u>3:03:48</u>
LATITUDE	<u>N15° 31.42</u>	<u>N15° 31.52</u>	
LONGITUDE	<u>W58° 38.11</u>	<u>W58° 52.05</u>	
SHOTPOINT	<u>0</u>	<u>836</u>	<u>837</u>
FILE #	<u>1</u>	<u>835</u>	<u>835</u>
TAPE #	<u>421</u>	<u>425</u>	<u>5</u>
WATER DEPTH	<u>4922m</u>	<u>4353</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, 4
NEAR OFFSET (M) 190 FAR OFFSET (M) 817.5 CHAN SEP (M) 12.5
COURSE 271° SPEED (KTS) SW 4.7 / SOG 4.4
SHOT ON (TIME / (DIST)) REP RATE (S) 12-15 (M) 30
SOURCE INFO 10 gun array, 2320 in³, 2000 psi
NAV SYSTEM INFO 3-D differential GPSCOMMENTS: 1st shot: SP#0, F#1
2nd shot: SP#3, F#2

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 182
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>176 24 JUN 92</u>	<u>176 24 JUNE 1992</u>	
TIME(Z)	<u>02:51:12</u>	<u>05:56:24</u>	<u>3:05:12</u>
LATITUDE	<u>N 15° 32.17</u>	<u>N 15° 32.1754</u>	
LONGITUDE	<u>W 58° 52.01</u>	<u>W 58° 38.0124</u>	
SHOTPOINT	<u>2</u>	<u>837</u>	<u>836</u>
FILE #	<u>1</u>	<u>835</u>	<u>835</u>
TAPE #	<u>426</u>	<u>430</u>	<u>5</u>
WATER DEPTH	<u>4406</u>	<u>4934</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52

SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4

NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5

COURSE ~ 091° SPEED (KTS) ~ 4.3

SHOT ON (TIME / DIST) REP RATE (S) 12-15 (M) 30

SOURCE INFO 10 airgun array, 2320 cu. in. at 2000 psi

NAV SYSTEM INFO Differential GPS

COMMENTS:

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 218
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>176/JUNE 24, 1992</u>	<u>176/24 June 92</u>	
TIME(Z)	<u>06:36:41</u>	<u>09:37:01</u>	<u>03:00:20</u>
LATITUDE	<u>N 15° 31.2125</u>	<u>N 15° 31.15</u>	
LONGITUDE	<u>W 58° 38.0435</u>	<u>W 58° 52.43</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>830</u>
FILE #	<u>1</u>	<u>830</u>	<u>830</u>
TAPE #	<u>431</u>	<u>435</u>	<u>5</u>
WATER DEPTH	<u>4936 m.</u>	<u>4269 m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5
COURSE ~~270~~ ~270° SPEED (KTS) ~4.3
847.5

SHOT ON (TIME / DIST) REP RATE (S) ~13 (M) ~30

SOURCE INFO 10 - AIRGUN ARRAY; 2320 in³ @ 2000 psi pressure

NAV SYSTEM INFO DIFFERENTIAL GPS.

COMMENTS:

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LINE INFORMATION LOGCRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 188
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>176 / 24 June 92</u>	<u>176 / 24 June 92</u>	
TIME(Z)	<u>10:14:52</u>	<u>13:18:03</u>	<u>3:03:11</u>
LATITUDE	<u>N 15° 31.86</u>	<u>32.02</u>	
LONGITUDE	<u>W 15° 51.82</u>	<u>38.01</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>835</u>
FILE #	<u>1</u>	<u>835</u>	<u>835</u>
TAPE #	<u>436</u>	<u>440</u>	<u>5</u>
WATER DEPTH	<u>4386 m</u>	<u>4934</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, 4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5
827.5 CHAN SEP (M) 12.5
COURSE 96° SPEED (KTS) STW 4.9 / SOG 4.7
SHOT ON (TIME / (DIST)) REP RATE (S) ~13.92 s av. (M) 30
SOURCE INFO 10 airgun array 2320 m³ @ 2000 psi
NAV SYSTEM INFO differential GPSCOMMENTS:

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LINE INFORMATION LOGAbandoned due to gun fault

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 224
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>176 24 JUN 92</u>	<u>176 24 June '92</u>	
TIME(Z)	<u>13:55:55</u>	<u>15:53:36</u>	<u>1:57:41</u>
LATITUDE	<u>N15° 31.05</u>	<u>N15° 31:04</u>	
LONGITUDE	<u>W58° 38.05</u>	<u>W58° 47:05</u>	
SHOTPOINT	<u>2</u>	<u>535</u>	<u>534</u>
FILE #	<u>1</u>	<u>534</u>	<u>534</u>
TAPE #	<u>441</u>	<u>443</u>	<u>3</u>
WATER DEPTH	<u>4931 m</u>	<u>4648</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52

SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4

NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5

COURSE ~270° SPEED (KTS) 847.5

SHOT ON (TIME (DIST)) REP RATE (S) 12-15 (M) 30

SOURCE INFO 10 airgun array, 2320 cu. in. at 2000 psi

NAV SYSTEM INFO Differential GPS

COMMENTS:

1526z, ~ SP# 410, Gun # 1 not firing - pulled

End line early - Gun # 1 is too important in array

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 224A
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shibley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>176 24 Jun 92</u>		
TIME(Z)	<u>17:54:59</u>	<u>19:35:01</u>	<u>1:40:02</u>
LATITUDE	<u>N 15° 31.0472'</u>	<u>N 15° 31.0431'</u>	
LONGITUDE	<u>W 58° 44.5230'</u>	<u>W 058° 52.0689'</u>	
SHOTPOINT	<u>0; 4</u>	<u>454</u>	<u>452</u>
FILE #	<u>2, 3</u>	<u>453</u>	<u>452</u>
TAPE #	<u>444</u>	<u>446</u>	<u>3</u>
WATER DEPTH	<u>4848</u>	<u>4299</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, 4
NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5
COURSE 262 SPEED (KTS) 4.3
SHOT ON (TIME / DIST) REP RATE (S) 12-15 (M) 30
SOURCE INFO 10 airgun array 2320 in³ @ 2000 psi
NAV SYSTEM INFO Differential GPS

COMMENTS: New Block for first 2 shots - fine after sp# 4 file #3
~ sp# 180 Noticed gun #1 showing N, L, C often
sp# 295 Gun #16 quit - will put back in for next line

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Abandoned due
to gun failure (103)

LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 194
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>176 24 June 92</u>	<u>176 / 24 June 92</u>	
TIME(Z)	<u>20:15:30</u>	<u>21:41:46</u> <u>(21:42:52)</u>	<u>1:26:16</u>
LATITUDE	<u>N 15° 31.63</u>	<u>N 15° 31.91</u>	
LONGITUDE	<u>W 58° 52.00</u>	<u>W 58° 45.51</u>	
SHOTPOINT	<u>0</u>	<u>399 (404)</u>	<u>399</u>
FILE #	<u>1</u>	<u>399 (403)</u>	<u>398</u>
TAPE #	<u>447</u>	<u>448 (449)</u>	<u>2</u>
WATER DEPTH	<u>4392m</u>	<u>4881m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3.4
NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5
847.5
COURSE 94° SPEED (KTS) 4.3
SHOT ON (TIME / DIST) REP RATE (S) 12.15 (M) 30
SOURCE INFO 10 airgun array 2320 in³ @ 2000 psi
NAV SYSTEM INFO Differential GPS

COMMENTS: 1st shot: SP#0 F#1

2nd shot: SP#3 F#2

2130Z Gun #9 is pulled in

2142Z LINE ABORTED DUE TO GUN FAILURE USP#340
discarding tape #449 (only 5 shots)

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No TAPE # 449

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 194A
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>176 / 24 June 92</u>	<u>177 / 25 June 92</u>	
TIME(Z)	<u>22:54:06</u>	<u>00:50:02</u>	<u>1:55:56</u>
LATITUDE	<u>N15° 31.91</u>	<u>N15° 31.85</u>	
LONGITUDE	<u>W58° 46.82</u>	<u>W58° 38.02</u>	
SHOTPOINT	<u>0</u>	<u>530</u>	<u>531</u>
FILE #	<u>1</u>	<u>529</u>	<u>529</u>
TAPE #	<u>450</u>	<u>452</u>	<u>3</u>
WATER DEPTH	<u>4731m</u>	<u>4935</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 447.5 CHAN SEP (M) 12.5
COURSE 15° SPEED (KTS) 3.9
SHOT ON (TIME/DIST) REP RATE (S) 12-14 (M) 30
SOURCE INFO 10 airgun array 2320 m³ @ 2000 psi
NAV SYSTEM INFO differential GPS

COMMENTS: 1st shot: SP#0, F#1
2nd shot: SP#0, F#2
3rd shot: SP#0, F#3
4th shot: SP#0, F#4
5th shot: SP#6, F#5

Gun #5 was observed to be too deep: ≈ 14 m.; has been so for at least 10 hrs, 2253 Gun being hauled in to check on balloon.
- out up to EOL.

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LINE INFORMATION LOGCRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 212
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>177 25 JUN 92</u>	<u>177 JUNE 25 '92</u>	
TIME(Z)	<u>02:33:43</u>	<u>05:44:11</u>	
LATITUDE	<u>N 15° 31.37</u>	<u>15° 31.367 ' N</u>	
LONGITUDE	<u>W 58° 37.49</u>	<u>58° 52.0501' W</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>837</u>
FILE #	<u>1</u>	<u>835</u>	<u>835</u>
TAPE #	<u>453</u>	<u>457</u>	<u>5</u>
WATER DEPTH	<u>4932m</u>	<u>4336</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4NEAR OFFSET (M) 190 FAR OFFSET (M) 447.5 CHAN SEP (M) 12.5COURSE ~270° SPEED (KTS) 4.65m / 4.25mSHOT ON (TIME (DIST)) REP RATE (S) 12-15 (M) 30SOURCE INFO 10 airgun array, 2320 cu. in. at 2000 psiNAV SYSTEM INFO Differential GPSCOMMENTS:

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 160
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>177 25 Jun 92</u>	<u>177 / 25 June 92</u>	
TIME(Z)	<u>06:32:05</u>	<u>09:37:35</u>	<u>3:05:30</u>
LATITUDE	<u>N 15° 32.7550</u>	<u>N 15° 33.12</u>	
LONGITUDE	<u>W 58° 52.1029</u>	<u>W 58° 38.07</u>	
SHOTPOINT	<u>0, 3</u>	<u>836</u>	<u>835</u>
FILE #	<u>1, 2</u>	<u>835</u>	<u>835</u>
TAPE #	<u>458</u>	<u>462</u>	<u>5</u>
WATER DEPTH	<u>4461</u>	<u>4165m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52

SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, 4

NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5

COURSE ~90° SPEED (KTS) ~4.0

SHOT ON (TIME / DIST) REP RATE (S) 12-15 (M) 30

SOURCE INFO 10 airgun array, 2320 in³ @ 2000 psi

NAV SYSTEM INFO Differential GPS

COMMENTS: No sp#1 & 2

No sp# 12 & 14

Nav Block Inc.

No data request after alarm 0
Not the dss 240

No sp# 41

No sp# 253-255

No sp# 293, 294, 296,

Many problems with incomplete Nav Blocks, see MCS Acq. Logs,
p 119, 120

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 232
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>177 25 JUN 92</u>	<u>177 25 JUN 92</u>	
TIME(Z)	<u>10:27:31</u>	<u>11:10:21</u>	
LATITUDE	<u>N 15° 30.81</u>		
LONGITUDE	<u>W 58° 38.09</u>		
SHOTPOINT	<u>2</u>	<u>191</u>	<u>190</u>
FILE #	<u>1</u>	<u>190</u>	<u>190</u>
TAPE #	<u>463</u>	<u>463</u>	<u>1</u>
WATER DEPTH	<u>4922m</u>		

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52

SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 34

NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 3012.5

COURSE 267 SPEED (KTS) 4.8

SHOT ON (TIME / (DIST)) REP RATE (S) 12-15 (M) 30

SOURCE INFO 10 zigzag array, 2320 in³, 2000 psi

NAV SYSTEM INFO differential GPS

COMMENTS: 1040Z SP # 059 - GUNS 14 & 18 off line, pressure dropped to \approx 1800 psi.

1047Z SP # 072 - GUNS 14 & 18 back up, pressure back to 2000 psi, SP # 103: GUN #5 begins leaking

~~1057Z~~ 1057Z: pressure > 2000 (\approx 2014) ~~463~~

ABORTED AT SP # 190,

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 232A
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>177/25 JUN 92</u>	<u>177/25 JUNE 1992</u>	
TIME(Z)	<u>13:15:52</u>	<u>16:15:11</u>	<u>02:59:11</u>
LATITUDE	<u>N15° 30.83</u>	<u>N15° 30.8265'</u>	
LONGITUDE	<u>W58° 38.06</u>	<u>W58° 52.0370'</u>	
SHOTPOINT	<u>0</u>	<u>836</u>	<u>834 (shots skipped)</u>
FILE #	<u>1</u>	<u>834</u>	<u>834</u>
TAPE #	<u>464</u>	<u>468</u>	<u>5</u>
WATER DEPTH	<u>4925</u>	<u>4262</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52

SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, ✓

NEAR OFFSET (M) 190 FAR OFFSET (M) 447.5 CHAN SEP (M) 12.5

COURSE ~270° SPEED (KTS) 4.7 sm / 4.4 sm

SHOT ON (TIME / DIST) REP RATE (S) 12-15 (M) 30

SOURCE INFO 10 zigzag array, 2320 in³, 2000 psi

NAV SYSTEM INFO Differential 121 GPS

COMMENTS:

2GPS down @ 1330-1332 causing skipped SP# and Nav. block incompletes (2)

for files 78,79

Streamer consistently shallow + cannot be controlled by birds

16012 ~ SP#768 GUN#9 NOT firing - back ~ 16032 SP#777

16062 ~ SP#792 GUN#3 down and pulled

Line 238 (pg. 87) was shot to sp# 727.
Discontinued to head to OBS drop off points

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 238A
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>177 / JUNE 25, '92</u>	<u>177 / JUNE 25, '92</u>	
TIME(Z)	<u>18:09:48</u>	<u>18:39:56</u>	<u>00:30:08</u>
LATITUDE	<u>N 15° 30.6673</u>	<u>N 15° 30.6679</u>	
LONGITUDE	<u>W 58° 49.7167</u>	<u>W 58° 52.0704</u>	
SHOTPOINT	<u>0</u>	<u>143</u>	<u>189 (14 dropouts)</u>
FILE #	<u>1</u>	<u>139</u>	<u>139</u>
TAPE #	<u>469, DRIVE 0</u>	<u>469</u>	<u>1</u>
WATER DEPTH	<u>4512</u>	<u>4291</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5
COURSE 274 SPEED (KTS) ~ 4.3
SHOT ON (TIME / DIST) REP RATE (S) ~ 13 sec (M) ~ 30 m.
SOURCE INFO 10 - AIRGUN ARRAY, 2320 in³ @ 2000psi
NAV SYSTEM INFO DIFFERENTIAL GPS

COMMENTS: New Block Inc file # 1-4 no sp# 1-6
Lost Nav# at about sp# 73

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 220 20 (CROSS LINE)
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>177 / JUNE 25, '92</u>	<u>17 / 25 June 90</u>	
TIME(Z)	<u>20:32:00</u>	<u>21:03:40</u>	<u>00:31:40</u>
LATITUDE	<u>N15° 30.57</u>	<u>N15° 33.20</u>	
LONGITUDE	<u>W58° 48.34</u>	<u>W58° 48.30</u>	
SHOTPOINT	<u>0</u>	<u>146</u>	<u>145</u>
FILE #	<u>1</u>	<u>145</u>	<u>145</u>
TAPE #	<u>470 ; DRIVE #1</u>	<u>470</u>	<u>1</u>
WATER DEPTH	<u>4601 m</u>	<u>4678</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52

SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, 4

NEAR OFFSET (M) 190 FAR OFFSET (M) ~~827.5~~ 847.5 CHAN SEP (M) 125

COURSE 128° SPEED (KTS) ~4.13 4.9

SHOT ON (TIME/DIST)[✓] REP RATE (S) ~13 sec (M) ~30 m

SOURCE INFO 10 - AIRGUN ARRAY ; 2320 in³ @ 2000 psi

NAV SYSTEM INFO DIFFERENTIAL GPS

COMMENTS: "NAV BLOCK INC." for 1st 6 shots ⇒ SP# = 0

7th shot: SP#8, F#7

Started shooting on time @ 2037Z, SP#27

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 30
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>177/25 June 92</u>	<u>177/25 June 92</u>	
TIME(Z)	<u>21:51:38</u>	<u>22:28:15</u>	
LATITUDE	<u>N15° 33.0050</u>	<u>N15° 30.03</u>	
LONGITUDE	<u>W58° 46.0622</u>	<u>W58° 45.96</u>	
SHOTPOINT	<u>0</u>	<u>159</u>	
FILE #	<u>1</u>	<u>170</u>	
TAPE #	<u>471</u>	<u>471</u>	<u>1</u>
WATER DEPTH	<u>4821</u>	<u>4695m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52

SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4

NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5

COURSE 173 SPEED (KTS) 4.9

SHOT ON ((TIME)/DIST) REP RATE (S) 13 < (M) ~30

SOURCE INFO 10 airgun array, 2320 m³ @ 2000 psi

NAV SYSTEM INFO differential GPS

COMMENTS:

Wounded shots, ...

1st shot: SP#0 F#1

2nd shot: SP#370 F#2004

13th shot: SP#2 F#13 ← reset SP#5

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 40
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>177/25 June 92</u>	<u>177/25 June 92</u>	
TIME(Z)	<u>22:57:03</u>	<u>23:33:28</u>	<u>00:36:25</u>
LATITUDE	<u>N15° 30.08</u>	<u>N15° 33.00</u>	
LONGITUDE	<u>W58° 44.86</u>	<u>W58° 44.65</u>	
SHOTPOINT	<u>0</u>	<u>171</u>	<u>169</u>
FILE #	<u>1</u>	<u>169</u>	<u>169</u>
TAPE #	<u>472</u>	<u>472</u>	<u>1</u>
WATER DEPTH	<u>4803m</u>	<u>4907m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52

SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4

NEAR OFFSET (M) 190 FAR OFFSET (M) 827.5 CHAN SEP (M) 12.5

COURSE 008° SPEED (KTS) 4.8

SHOT ON (TIME/DIST) REP RATE (S) 12.9 13 (M) N30

SOURCE INFO 10 argon array 2320 m³ @ 2000 psi

NAV SYSTEM INFO differential GPS

COMMENTS:

crossed OBS location at $\approx 23:16:47 - 23:17:13$,
SP #'s 94-96

1st shot: SP#0 F#1
2nd shot: SP#0 F#2
3rd shot: SP#0 F#3
4th shot: SP#6 F#4

OBS shots

1) 23:16:47 SP#94
2) 23:17:00 SP#95
3) 23:17:13 SP#96) 89.5

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 50
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>178/25 June 92</u>	<u>178/26 June 92</u>	
TIME(Z)	<u>01:02:44</u>	<u>01:45:24</u>	<u>44:40</u>
LATITUDE	<u>N15° 33.17</u>	<u>N15° 30.04</u>	
LONGITUDE	<u>W58° 43.94</u>	<u>W58° 43.97</u>	
SHOTPOINT	<u>0</u>	<u>199</u>	<u>200 198</u>
FILE #	<u>1</u>	<u>198</u>	<u>198</u>
TAPE #	<u>473</u>	<u>473</u>	<u>1</u>
WATER DEPTH	<u>4935</u>	<u>4845</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE 172° SPEED (KTS) 4.6 SNW / 4.5 S04
SHOT ON (TIME / DIST) REP RATE (S) ~~12.9~~ 13 (M) ~30
SOURCE INFO 10 airgun array, 2320 m³ @ 2000 psi
NAV SYSTEM INFO differential GPS

COMMENTS:

- skipped 2 SP# at start of line (not missed shots)
- "4 Nav block incomplete's with SP#0 from file 1-4 inc.

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 50 60
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shiple/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>178 26 JUN 92</u>	<u>178 / 26 June 92</u>	
TIME(Z)	<u>02:23:53</u>	<u>03:03:25</u>	<u>00:39:32</u>
LATITUDE	<u>N 15° 30.37</u>	<u>N 15° 33.18</u>	
LONGITUDE	<u>W 58° 43.00</u>	<u>W 58° 43.00</u>	
SHOTPOINT	<u>0</u>	<u>184</u>	<u>183</u>
FILE #	<u>1</u>	<u>183</u>	<u>183</u>
TAPE #	<u>474</u>	<u>474</u>	<u>1</u>
WATER DEPTH	<u>4933</u>	<u>4980</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE ~ 000 (N) SPEED (KTS) 4.1 SW / 4.2 SW
SHOT ON (TIME / DIST) REP RATE (S) 12.9 13 (M) ~ 30
SOURCE INFO 10 airgun array, 2320 cu. in. at 2000 psi
NAV SYSTEM INFO Differential GPS

COMMENTS:

Files #1 and 2 both SP#0 (Nav. block incomplete) File#3 = SP#4 etc.

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LINE INFORMATION LOGCRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 70PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>178 26 JUN 92</u>	<u>178 26 Jun 92</u>	
TIME(Z)	<u>03:52:19</u>	<u>04:28:44</u>	<u>00:24:25</u>
LATITUDE	<u>N15° 32.39</u>	<u>N15° 29.4360'</u>	
LONGITUDE	<u>W58° 42.18</u>	<u>W58° 42.1900'</u>	
SHOTPOINT	<u>0</u>	<u>169 170</u>	
FILE #	<u>1</u>	<u>169</u>	<u>169</u>
TAPE #	<u>475</u>	<u>475</u>	<u>1</u>
WATER DEPTH	<u>5034</u>	<u>4975</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5COURSE 175 SPEED (KTS) 4.6SHOT ON (TIME/DIST) REP RATE (S) 12.9 13 (M) ~30SOURCE INFO 10 airgun array, 2320 cu. in. at 2000 psiNAV SYSTEM INFO Differential GPSCOMMENTS:

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 80
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>178 / JUNE 26, '92</u>	<u>178 26 June 92</u>	
TIME(Z)	<u>05:06:27</u>	<u>05:47:38</u>	<u>00:41:11</u>
LATITUDE	<u>15° 30.1198'</u>	<u>15° 32.1240'</u>	
LONGITUDE	<u>58° 41.0012'</u>	<u>58° 40.9973'</u>	
SHOTPOINT	<u>0 , 7</u>	<u>194</u>	<u>193</u>
FILE #	<u>1 , 6</u>	<u>193</u>	<u>193</u>
TAPE #	<u>476</u>	<u>476</u>	<u>1</u>
WATER DEPTH	<u>5055</u>	<u>5055</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, 4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE 008° SPEED (KTS) 4.3
SHOT ON ((TIME)/DIST) REP RATE (S) 12.9 (M) ~30
SOURCE INFO 10 airgun array, 2320 in³ @ 2000 psi
NAV SYSTEM INFO Diff. GPS

COMMENTS:

New Block Inc., Bas TB for file #1-5.

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 191A
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>178 26 June 92</u>	<u>178 26 June 92</u>	
TIME(Z)	<u>07:15:10 Z</u>	<u>07:50:23</u>	<u>00:35:23</u>
LATITUDE	<u>15° 31.9330'</u>	<u>15° 31.9333'</u>	
LONGITUDE	<u>58° 40.7168'</u>	<u>58° 37.9936'</u>	
SHOTPOINT	<u>2 (approx. Grid SP670)</u>	<u>164</u>	<u>163</u>
FILE #	<u>1</u>	<u>163</u>	<u>162</u>
TAPE #	<u>477</u>	<u>477</u>	<u>1</u>
WATER DEPTH	<u>5044</u>	<u>4941</u>	

REC LENGTH (S) 95 SAMP INT (MSEC) 2ms # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 347.5 CHAN SEP (M) 12.5
COURSE 91 SPEED (KTS) 4.6
SHOT ON (TIME (DIST)) REP RATE (S) 12-155 (M) 30
SOURCE INFO 10 airgun array, 2320 in³ @ 2000 psi
NAV SYSTEM INFO Differential GPS
COMMENTS: Grid shotpoint #670 - started shooting line

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 239
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>178 26 June 92</u>	<u>178 26 JUNE 92</u>	
TIME(Z)	<u>08:36:20</u>	<u>11:34:34</u>	<u>0 2:58:14</u>
LATITUDE	<u>N 15° 30.73</u>	<u>N 15 30.6290</u>	
LONGITUDE	<u>W 58° 38.30</u>	<u>W 58 52.1749</u>	
SHOTPOINT	<u>0</u>	<u>836</u>	<u>826</u>
FILE #	<u>1</u>	<u>826</u>	<u>826</u>
TAPE #	<u>478</u>	<u>482</u>	<u>5</u>
WATER DEPTH	<u>4917m</u>	<u>4265</u>	

REC LENGTH (S) 9s SAMP INT (MSEC) 2ms # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 34
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE 262° SPEED (KTS) 4.7
SHOT ON (TIME / DIST) REP RATE (S) 12-15s (M) 30
SOURCE INFO 10 airgun array, 2320 in³ @ 2000 psi
NAV SYSTEM INFO Differential GPS

COMMENTS: 1st shot: SP#0, F#1

2nd shot: SP#3, F#2

DSS = 240 → missed shots: 330-334, missed 5 shots 1 hr. nk
crash → missed 4 shots: 499-502

EOL @ 11:34:34

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 159
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>JD 178 / 26 June 92</u>	<u>JD 178 / 26 June '92</u>	
TIME(Z)	<u>12:31:04</u>	<u>13:34:55</u>	<u>1:03:51</u>
LATITUDE	<u>N15° 32.71</u>	<u>N15° 32.79</u>	
LONGITUDE	<u>W58° 52.00</u>	<u>W58° 47.19</u>	
SHOTPOINT	<u>2</u>	<u>287</u>	<u>286</u>
FILE #	<u>1</u>	<u>286</u>	<u>286</u>
TAPE #	<u>483</u>	<u>484</u>	<u>2</u>
WATER DEPTH	<u>4460</u>	<u>4777</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE ~90° SPEED (KTS) 4.4506 / 4.4521
SHOT ON (TIME / (DIST)) REP RATE (S) 13.4 av. (M) 30
SOURCE INFO 10 airgun array, 2320 cu. in. @ 2000 psi
NAV SYSTEM INFO differential GPS

COMMENTS:

EOL early due to leak in gun #12 - line aborted - turn about to reshoot from beginning

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LINE INFORMATION LOGCRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 204A
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>178 26 JUN 92</u>	<u>178 26 June 92</u>	
TIME(Z)	<u>14:34:54</u>	<u>15:13:00</u>	<u>00:38:06</u>
LATITUDE	<u>N 15° 31.58</u>	<u>N 15° 31.58</u>	
LONGITUDE	<u>W 58° 49.16</u>	<u>W 58° 52.06</u>	
SHOTPOINT	<u>2</u>	<u>174</u>	<u>173</u>
FILE #	<u>1</u>	<u>173</u>	<u>173</u>
TAPE #	<u>485</u>	<u>485</u>	<u>1</u>
WATER DEPTH	<u>4598</u>	<u>4292</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3.4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE ~270 SPEED (KTS) 4.7 SW / 4.3 SOC
SHOT ON (TIME / DIST) REP RATE (S) 12-15 (M) ~30
SOURCE INFO 10 airgun array, 2320 cu. in. at 2000 psi
NAV SYSTEM INFO Differential GPSCOMMENTS:

- A reshoot of end (~last 175 SP) of line 204

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 159 A
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shibley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>178 26 JUN 92</u>	<u>178 26 June 92</u>	
TIME(Z)	<u>16:05:05</u>	<u>19:13:22</u>	<u>3:08:17</u>
LATITUDE	<u>15° 32.7864</u>	<u>15 32.7884</u>	
LONGITUDE	<u>58° 52.0858</u>	<u>58 37.9425</u>	
SHOTPOINT	<u>0</u>	<u>836</u>	<u>835</u>
FILE #	<u>1</u>	<u>835</u>	<u>835</u>
TAPE #	<u>486</u>	<u>490</u>	<u>5</u>
WATER DEPTH	<u>4462</u>	<u>4969</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE 95 SPEED (KTS) 4.0
SHOT ON (TIME / DIST) REP RATE (S) 12-15 (M) ~30
SOURCE INFO 10 airgun array, 2320 cu. in. at 2000 psi
NAV SYSTEM INFO Differential GPS

COMMENTS:

No sp # 1 & 2
Nav Block m. No sp # 122, 124, 126, 171, 176, 314, 328,
330, 351, 499, 514, 732, 733,
810, 811,
GUN 20 DID NOT FIRE ON LAST SHOT
(AT LEAST)

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LINE INFORMATION LOG

Abandoned @ SP#598
good thru SP#459
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CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 240
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>178 26 June 92</u>	<u>178 26 June 92</u>	
TIME(Z)	<u>20:18:03</u>	<u>22:36:06</u>	<u>2:18:03</u>
LATITUDE	<u>N 15° 30.6143</u>	<u>N 15° 30.6135</u>	
LONGITUDE	<u>W 58° 38.0746</u>	<u>W 58° 48.3570</u>	
SHOTPOINT	<u>2</u>	<u>598</u>	<u>598</u>
FILE #	<u>1</u>	<u>598</u>	<u>598</u>
TAPE #	<u>491</u>	<u>493</u>	<u>3</u>
WATER DEPTH	<u>4908</u>	<u>4611</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 34
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 3.4
COURSE SPEED (KTS)

SHOT ON (TIME / (DIST)) REP RATE (S) 12-15 (M) 30

SOURCE INFO 10 airgun array, 2320 in³ @ 2000 psi

NAV SYSTEM INFO Differential GPS

COMMENTS: **** LAST GOOD SHOT = SP#459 ****

2158Z
98-244
"ACQUISITION CODE = 8040"
GUN 20 WAS OBSERVED TO HAVE NOT FIRED
ON THE LAST SHOT (AT LEAST) OF LINE 159A,
NOT FIRING. MSGG APPEARED BECAUSE IT IS FIRING
SO LATE, OR NOT AT ALL, taken off-line before
shot # 20, back on line @ 2123Z, shot 292
→ 2202Z "ACQUISITION CODE = 8020", "STEAMER COMPASS ACQUISITION FAILED"
missed 4 shots: SP 460-463
2204Z DSS-240 RESTARTED * DSS-240 KEEPS CRASHING *
DSS 240
CRASH

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 158
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>179 27 June '92</u>	<u>179 27 June '92</u>	
TIME(Z)	<u>03:29:18</u>	<u>06:32:48</u>	<u>3:03:30</u>
LATITUDE	<u>N 15° 32.8154</u>	<u>N 15° 32.8163</u>	
LONGITUDE	<u>W 58° 51.9055</u>	<u>W 58° 37.9969</u>	
SHOTPOINT	<u>2</u>	<u>830</u>	<u>828</u>
FILE #	<u>1</u>	<u>828</u>	<u>828</u>
TAPE #	<u>494</u>	<u>498</u>	<u>5</u>
WATER DEPTH	<u>4475</u>	<u>4970</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52

SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4

NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5

COURSE SPEED (KTS)

SHOT ON (TIME / (DIST)) REP RATE (S) 12-15 (M) ~30

SOURCE INFO 10 airgun array, 2320 cu. in. at 2000 psi

NAV SYSTEM INFO Differential GPS

COMMENTS: missed 6 shot locations before SOL set up (i.e. file #1 is at shot location #7)
03:30:51z AP#9, file #8 is first "good" shot

(NB) NO TAPES
499-502 inclusive

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LINE INFORMATION LOG

SONOBUOY (124)

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 999
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shiple/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>179 / 27 June '92</u>	<u>179 27 June '92</u>	
TIME(Z)	<u>13:05:27</u>	<u>13:54:05</u>	<u>00:48:38</u>
LATITUDE	<u>N 15° 31.8743</u>	<u>N 15° 31.0933</u>	
LONGITUDE	<u>W 58° 40.2090</u>	<u>W 58° 43.9110</u>	
SHOTPOINT	<u>0</u>	<u>224</u>	<u>225</u>
FILE #	<u>422</u>	<u>644</u>	<u>223</u>
TAPE #	<u>503</u>	<u>504</u>	<u>2</u>
WATER DEPTH	<u>5019</u>	<u>4914</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS

SEIS CHANS — AUX CHANS 1, 2, 3 PROBLEM CHANS —

NEAR OFFSET (M) — FAR OFFSET (M) — CHAN SEP (M) —

COURSE SPEED (KTS)

SHOT ON (TIME / DIST) REP RATE (S) 13.2s (M) —

SOURCE INFO 10 airgun array, 2320 cu.in. @ 2000 psi

NAV SYSTEM INFO

COMMENTS: (Ref. Tek)
Marathon sonobuoy out (SB#2)
1343 z military sonobuoy launched (SB#3)

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 999 A sonobuoy
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>179 27 JUNE 92</u>	<u>179 27 June 92</u>	
TIME(Z)	<u>14:24:39</u>	<u>15:21:51</u>	<u>00:57:12</u>
LATITUDE	<u>N15° 31.0849</u>	<u>N15° 31.5264</u>	
LONGITUDE	<u>W58° 43.9978</u>	<u>W58° 40.6190</u>	
SHOTPOINT	<u>0</u>	<u>263</u>	<u>263</u>
FILE #	<u>1</u>	<u>261</u>	<u>261</u>
TAPE #	<u>505</u>	<u>506</u>	<u>2</u>
WATER DEPTH	<u>4922 m</u>	<u>5021</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS

SEIS CHANS AUX CHANS 1,2,3 PROBLEM CHANS

NEAR OFFSET (M) FAR OFFSET (M) CHAN SEP (M)

COURSE SPEED (KTS)

SHOT ON (TIME / DIST) REP RATE (S) 13.25 (M)

SOURCE INFO 10 airgun array, 2320 cu. in. at 2000 psi

NAV SYSTEM INFO

COMMENTS: SB#2,3 already in water

First 6 files are "badTB" and "Nav block incomplete", file#7 'Nav block inc."

1501z SB#4 launched (SP#169) ~ 100m from SB#2 (the ~~the~~ RefTek)

N15°31.3605 W58°41.9495

SB#4 is military SB, 400', no AGC

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LINE INFORMATION LOG

SONOBUOY

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 999B
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>179 / 27 June '92</u>	<u>179 / 27 June '92</u>	
TIME(Z)	<u>15:35:23</u>	<u>16:07:53</u>	<u>0:32:30</u>
LATITUDE	<u>N15° 31.5800</u>	<u>N15° 31.0439</u>	
LONGITUDE	<u>W58° 41.0567</u>	<u>W58° 43.3788</u>	
SHOTPOINT	<u>2</u>	<u>149</u>	<u>148</u>
FILE #	<u>1</u>	<u>148</u>	<u>148</u>
TAPE #	<u>507</u>	<u>507</u>	<u>1</u>
WATER DEPTH	<u>5055</u>	<u>4923</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS
SEIS CHANS AUX CHANS 1,2,3 PROBLEM CHANS
NEAR OFFSET (M) FAR OFFSET (M) CHAN SEP (M)
COURSE ~259° SPEED (KTS) ~4.75W/~
SHOT ON (TIME / DIST) REP RATE (S) 13.0s (M)
SOURCE INFO 10 airgun array, 2320 cu.in., 2000psi
NAV SYSTEM INFO

COMMENTS: SB# 2,3,4 all in water

NB: SP#4, file #3 is first shot at correct SP interval of 13.0s
(was firing at ~51s between first (SP#2) and second (SP#3) shots)
57A 400' Military

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SONOBUOY

LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 999C
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>179 27 June 92</u>	<u>179 / June 27, '92</u>	
TIME(Z)	<u>16:41:15</u>	<u>16:58:35</u>	<u>00:14:20</u>
LATITUDE	<u>N 15 31 .5601</u>	<u>N 15° 31 .2069</u>	
LONGITUDE	<u>W 58 43 .5100</u>	<u>W 58° 42 .4515</u>	
SHOTPOINT	<u>3</u>	<u>83</u>	<u>81</u>
FILE #	<u>1</u>	<u>81</u>	<u>81</u>
TAPE #	<u>508</u>	<u>508</u>	<u>1</u>
WATER DEPTH	<u>4943</u>	<u>5014.9</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS —
SEIS CHANS — AUX CHANS 1, 2, 3 PROBLEM CHANS —
NEAR OFFSET (M) — FAR OFFSET (M) — CHAN SEP (M) —
COURSE SPEED (KTS)
SHOT ON (TIME / DIST) REP RATE (S) 13.05 (M)
SOURCE INFO 10 airgun array, 2320 in³ 2000 psi
NAV SYSTEM INFO

COMMENTS: 57A 400' Military

Aux
Chan 1 0 dB / No Filter
Chan 2 10 dB / > 20 Hz
Chan 3 20 dB / .10
70
10,000

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 240A
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>179 / 27 June 92</u>	<u>180 / 28 June 92</u>	
TIME(Z)	<u>22:36:31</u>	<u>00:25:52</u>	<u>1:49:21</u>
LATITUDE	<u>N15° 30.518</u>	<u>N15° 30.6114</u>	
LONGITUDE	<u>W58° 44.383</u>	<u>W58° 52.0360</u>	
SHOTPOINT	<u>2</u>	<u>458</u>	<u>458</u>
FILE #	<u>1</u>	<u>457</u>	<u>457</u>
TAPE #	<u>509</u>	<u>511</u>	<u>3</u>
WATER DEPTH	<u>4874m</u>	<u>4289m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, 7
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE 268° SPEED (KTS) 4.0
SHOT ON (TIME / (DIST)) REP RATE (S) 13-15 (M) 30
SOURCE INFO 10 airgun array, 2320 m³ @ 2000 psi
NAV SYSTEM INFO differential GPS

COMMENTS:

0000Z : many missed shots between SP# 354, 355 — ^{~9 shots?} 2min14s time interval
triggering system went down after DGPS was down for a few seconds
at 0000Z.

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 157
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>180 28 JUN 92</u>	<u>180 28 JUN 1992</u>	
TIME(Z)	<u>01:25:56</u>	<u>04:38:17</u>	<u>03:12:21</u>
LATITUDE	<u>N15° 32.8352</u>	<u>15° 32.8461'</u>	
LONGITUDE	<u>W58° 52.0292</u>	<u>58° 37' 9644'</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>835</u>
FILE #	<u>1</u>	<u>835</u>	<u>835</u>
TAPE #	<u>512</u>	<u>516</u>	<u>5</u>
WATER DEPTH	<u>4458 m</u>	<u>4966</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE ~090° SPEED (KTS) 4.2 SW / 4.1 SOC
SHOT ON (TIME / DIST) REP RATE (S) 12-15 (M) ~30
SOURCE INFO 10 airgun array, 2320 cu. in. at 2000 psi
NAV SYSTEM INFO Differential GPS
COMMENTS: Nav Block. No sp# 715

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LINE INFORMATION LOGCRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 241
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>180 28 June 92</u>	<u>180 28 June 92</u>	
TIME(Z)	<u>05:42:53</u>	<u>08:47:23</u>	
LATITUDE	<u>N 15° 30.5923</u>	<u>N 15° 30.5866</u>	
LONGITUDE	<u>W 58° 38.0344</u>	<u>W 58° 52.0616</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>834</u>
FILE #	<u>1</u>	<u>834</u>	<u>834</u>
TAPE #	<u>517</u>	<u>521</u>	<u>5</u>
WATER DEPTH	<u>4935</u>	<u>4293</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE 267° SPEED (KTS) 4.466
SHOT ON (TIME / (DIST)) REP RATE (S) 12-15 (M) 30
SOURCE INFO 10 airgun array, 2320 in³ @ 2000 psi
NAV SYSTEM INFO Differential GPS
COMMENTS: No sp#1Missed SP #665 "MISSED NC"

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LINE INFORMATION LOGCRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 156
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shiple/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>180 28 June 92</u>	<u>180/28 June 92</u>	
TIME(Z)	<u>09:42:51</u>	<u>12:50:33</u>	<u>3:07:42</u>
LATITUDE	<u>N15° 32.8665</u>	<u>N15° 32.8707</u>	
LONGITUDE	<u>W58° 52.0331</u>	<u>W58° 38.0292</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>835</u>
FILE #	<u>1</u>	<u>830</u>	<u>830</u>
TAPE #	<u>522</u>	<u>526</u>	<u>5</u>
WATER DEPTH	<u>4461m</u>	<u>4966m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5COURSE 96° SPEED (KTS) 4.3SHOT ON (TIME / (DIST)) REP RATE (S) (M) 30SOURCE INFO 10 airgun array, 2370 in³ @ 2000 psiNAV SYSTEM INFO differential GPSCOMMENTS:10232 DSS-240 crash : missed 4 shots 189-192
"Acquisition code = E020"

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 224 B
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shiple/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>180/28 June 92</u>	<u>180/28 June 92</u>	
TIME(Z)	<u>13:51:34</u>	<u>17:00:58</u>	<u>3:09:24</u>
LATITUDE	<u>N 15° 31.0474</u>	<u>N 15° 31.0433</u>	
LONGITUDE	<u>W 58° 38.0408</u>	<u>W 58° 52.0602</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>833</u>
FILE #	<u>1</u>	<u>833</u>	<u>833</u>
TAPE #	<u>527</u>	<u>531</u>	<u>5</u>
WATER DEPTH	<u>4934</u>	<u>4314</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3.4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE ~270 SPEED (KTS) 4.6 snw / 4.1 soc
SHOT ON (TIME / (DIST)) REP RATE (S) ~12.15 (M) 30
SOURCE INFO 10 airgun array, 2320 cu.in. @ 2000 psi
NAV SYSTEM INFO differential GPS

COMMENTS:

- file # 243 ; labelled SP#0 (should be 34) - Nav block incomplete
- "missed NC" ; missed shot SP# 33
- "missed NC" ; missed shot SP# 73

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 155
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>180/28 June '92</u>	<u>180/28 June 92</u>	
TIME(Z)	<u>17:53:18</u>	<u>20:55:56</u>	<u>3:02:38</u>
LATITUDE	<u>N 15 32.8921</u>	<u>N 15° 32.9004</u>	
LONGITUDE	<u>W 58 52.0326</u>	<u>W 58° 39.0171</u>	
SHOTPOINT	<u>0</u>	<u>837</u>	<u>835</u>
FILE #	<u>1</u>	<u>835</u>	<u>835</u>
TAPE #	<u>532</u>	<u>536</u>	<u>5</u>
WATER DEPTH	<u>4465</u>	<u>4973 m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52

SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, 4

NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5

COURSE 092 SPEED (KTS) 4.6 STD / 4.3 SOG

SHOT ON (TIME / (DIST)) REP RATE (S) ~13 (M) ~30

SOURCE INFO 10 - AIRGUN ARRAY , 2320 in³ @ 2000 psi

NAV SYSTEM INFO DIFFERENTIAL GPS

COMMENTS: No sp#1+2

Skipped sp#40 - Guns showed "N"
Compass fault 1, 2, 3, 6 after sp#181
New Block - No sp#214, 441, 442, 443

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LINE INFORMATION LOGCRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 242
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>180 / 23 June 92</u>	<u>181 / 29 June 92</u>	
TIME(Z)	<u>21:49:45</u>	<u>00:53:20</u>	<u>3:03:35</u>
LATITUDE	<u>N 15° 30.5653</u>	<u>N 15° 30.5630</u>	
LONGITUDE	<u>W 58° 38.0327</u>	<u>W 58° 52.0693</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>835</u>
FILE #	<u>1</u>	<u>835</u>	<u>835</u>
TAPE #	<u>537</u>	<u>541</u>	<u>5</u>
WATER DEPTH	<u>4917 m</u>	<u>4282 m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, 4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE 267° SPEED (KTS) 4.6
SHOT ON (TIME / DIST) REP RATE (S) 12-15 (M) 30
SOURCE INFO 10 airgun array @ 2320 m³ @ 2000 psi
NAV SYSTEM INFO differential GPSCOMMENTS:

- 2344 z, GUN #1 develops leaky hose, must be turned off and pulled.
- 0019 z, Gun #1 back on line ~ SP # 684
- Bad TB SP # 590, 23:59:26 z

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 194C
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>181 / 29 June '92</u>	<u>181 / 29 June '92</u>	
TIME(Z)	<u>01:43:54</u>	<u>04:52:19</u>	<u>03:08:25</u>
LATITUDE	<u>N15° 31.8464</u>	<u>N 15° 31.8536</u>	
LONGITUDE	<u>W58° 52.0232</u>	<u>W 58° 38.0074</u>	
SHOTPOINT	<u>0</u>	<u>836</u>	<u>834</u>
FILE #	<u>1</u>	<u>834</u>	<u>834</u>
TAPE #	<u>542</u>	<u>546</u>	<u>5</u>
WATER DEPTH	<u>4385</u>	<u>4934</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190m FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE 087° SPEED (KTS) 4.2
SHOT ON (TIME / (DIST)) REP RATE (S) 12-15 (M) 30
SOURCE INFO 10 airgun array, 2320 cu.in. @ 2000 psi
NAV SYSTEM INFO differential GPS

COMMENTS:

- File #1. = SP#0
- File #2 = SP#3
- Gun #20 firing late from SOL - pulled
- Nav. block incomplete files # 33,35,39 (0151-0152z) (SP#0)
- Nav. block incomplete files # 220-226 incl. (0234-0235z) (SP#0)
- 0241z Gun #20 back in water but still registering as "No fire"
- Nav block incomplete 0245:18z File # 268 (SP#0)
- SP#275 shows "BE0080" message
- 02:50:39 SP#292 Gun #20 firing as #19 on display

SEE
OVER

- 02:56:33₂ file # 316 "Nav. block incomplete" (SP#0)
- 0306₂ - missed SP# 360 between files # 358, 357
"Nav. block incomplete" files # 359-361 inc. (SP#0)
- 03:29:27₂ SP# 462 Gun #16 not firing
- 0350₂ ~ SP# 556 Gun #16 pulled

NO TAPE # 547

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 243
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>181 / 29 June 92</u>	<u>181 / 29 June 92</u>	
TIME(Z)	<u>0550 07:04:17</u>	<u>10:05:36</u>	<u>03:01:19</u>
LATITUDE	<u>N 15 30.5388</u>	<u>N 15° 30.5319</u>	
LONGITUDE	<u>W 58 38.0297</u>	<u>W 58° 52.1083</u>	
SHOTPOINT	<u>0</u>	<u>836</u>	<u>833</u>
FILE #	<u>1</u>	<u>833</u>	<u>833</u>
TAPE #	<u>548</u>	<u>552</u>	<u>5</u>
WATER DEPTH	<u>4916</u>	<u>4283</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, 4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 3, 4
COURSE 270 SPEED (KTS) ~4.3 KTS

SHOT ON (TIME / DIST) () REP RATE (S) ~13 sec (M) ~30 m.
SOURCE INFO 10 - AIRGUN ARRAY ; 2320 in³ @ 2000 psi
NAV SYSTEM INFO DIFFERENTIAL GPS.

COMMENTS: New Blake missed 6 shots between sp#12 + #19

0945Z missed 1 shot SP# 743

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 154
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>181/29 June 92</u>	<u>181/29 June 92</u>	
TIME(Z)	<u>11:00:49</u>	<u>14:06:39</u>	<u>3:05:50</u>
LATITUDE	<u>N15° 32.9199</u>	<u>N15° 32.9308</u>	
LONGITUDE	<u>W58° 52.0522</u>	<u>W58° 37.9550</u>	
SHOTPOINT	<u>0</u>	<u>837</u>	<u>834</u>
FILE #	<u>1</u>	<u>834</u>	<u>834</u>
TAPE #	<u>553</u>	<u>557</u>	<u>5</u>
WATER DEPTH	<u>4467m</u>	<u>4962m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52

SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4

NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5

COURSE 90° SPEED (KTS) 4.0

SHOT ON (TIME / DIST) REP RATE (S) 12-15 (M) 30

SOURCE INFO 10 airgun array, 2320 in³ @ 2000 psi

NAV SYSTEM INFO differential GPS

COMMENTS:

1st shot: SP #0 F#1

2nd shot: SP #3 F#2

- mixed NC between files 819, 820

" " " " 820, 821

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 244
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>181 29 JUN 92</u>	<u>181 29 June 92</u>	
TIME(Z)	<u>15:02:20</u>	<u>18:07:33</u>	<u>02:59:13</u>
LATITUDE	<u>N15° 30.5097</u>	<u>15 30.5115</u>	
LONGITUDE	<u>W58° 38.0389</u>	<u>58 52.0485</u>	
SHOTPOINT	<u>0</u>	<u>837</u>	<u>835</u>
FILE #	<u>1</u>	<u>835</u>	<u>835</u>
TAPE #	<u>558</u>	<u>582</u>	<u>5</u>
WATER DEPTH	<u>4918m</u>	<u>42</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE 270° SPEED (KTS) 4.5

SHOT ON (TIME/DIST) REP RATE (S) 12-15 (M) ~30

SOURCE INFO 10 airgun array, 2320 cu in. at 2000 psi

NAV SYSTEM INFO Differential GPS

COMMENTS: first shot SP#0, file #1
2nd shot SP#3, file #2
- continue -

1530z, ~~file~~ "mixed NC" mixed SP#129 when DGPS came back after
~70sec. downtime

1659z - Gun #20 (120 in³) showing "N" -
1701z - Gun #20 looks okay
1706z - Gun #12 too deep 10-13m
1719z - Pulling #12
1739z - Gun #12 back in water but still shows "N"
1747z - Gun #12 looks okay.

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 153
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>181 29 June 92</u>	<u>181 29 June 92</u>	
TIME(Z)	<u>19:00:15</u>	<u>22:04:57</u>	<u>3:04:42</u>
LATITUDE	<u>N 15 32.9459</u>	<u>N 15 32.9314</u>	
LONGITUDE	<u>W 58 52.0315</u>	<u>W 58 37.9000</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>835</u>
FILE #	<u>1</u>	<u>835</u>	<u>835</u>
TAPE #	<u>563</u>	<u>567</u>	<u>5</u>
WATER DEPTH	<u>4468</u>	<u>4468m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE 95 SPEED (KTS)
SHOT ON (TIME (DIST)) REP RATE (S) 12-15 (M) 30
SOURCE INFO 10 airgun array, 2320 in³ @ 2000 psi
NAV SYSTEM INFO Differential GPS

COMMENTS: Gun #20 shows "N" from sp#2 -
(firing late)

1907Z sp#36 - started Mac. Time stamp late
~~1918Z Pulling gun #20~~
1933Z Pulled out gun #20
2144Z GUN #20 resumes firing.

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 245
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>181 / 29 June 92</u>	<u>182 / 30 June 92</u>	
TIME(Z)	<u>22:57:13</u>	<u>02:03:50</u>	<u>03:06:37</u>
LATITUDE	<u>N15° 30.4874</u>	<u>N15° 30.4812</u>	
LONGITUDE	<u>W58° 38.0332</u>	<u>W58° 52.0465</u>	
SHOTPOINT	<u>2</u>	<u>837</u>	<u>835</u>
FILE #	<u>1</u>	<u>835</u>	<u>835</u>
TAPE #	<u>568</u>	<u>572</u>	
WATER DEPTH	<u>4921m</u>	<u>4291m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE 267° SPEED (KTS) 4.6
SHOT ON (TIME / DIST) REP RATE (S) 12-15 (M) 30
SOURCE INFO 10 airgun array, 2320 m³ @ 2000 psi
NAV SYSTEM INFO differential GPS

COMMENTS: 2322Z GUN #18 HAS AIR LEAK, PULLED FOR REPAIR
0007Z ~ S1#371 Gun #18 back up

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 152
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shiple/ Moore/ Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>182 30 JUN 92</u>	<u>182 30 Jun 92</u>	
TIME(Z)	<u>03:19:40</u>	<u>06:23:30</u>	<u>3:03:50</u>
LATITUDE	<u>N 15° 32.9750</u>	<u>N 15 32.9810</u>	
LONGITUDE	<u>N 58° 52.0272</u>	<u>W 58 38.0257</u>	
SHOTPOINT	<u>0</u>	<u>836</u>	<u>833</u>
FILE #	<u>1</u>	<u>833</u>	<u>833</u>
TAPE #	<u>573</u>	<u>577</u>	<u>5</u>
WATER DEPTH	<u>4466m</u>	<u>4961</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52

SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4

NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5

COURSE ~090° SPEED (KTS) 4.2 STW / 4.5 SOG

SHOT ON (TIME / (DIST)) REP RATE (S) 12-15 (M) ~30

SOURCE INFO 10 airgun array, 2320 cu. in. at 2000 psi

NAV SYSTEM INFO Differential GPS

COMMENTS: " first shot SP#0, file #1 ; second shot SP#3, file #2 ; continue
" Missed NC" - 28s gap between file #17, #18 - missed SP#19
" " - missed SP#34

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 246
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>182, June 30, '92</u>	<u>182/30 June 92</u>	
TIME(Z)	<u>07:26:35</u>	<u>10:28:19</u>	<u>3:01:44</u>
LATITUDE	<u>N 15° 30.4600</u>	<u>N 15° 30.4516</u>	
LONGITUDE	<u>W 58° 38.0347</u>	<u>W 58° 52.0511</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>835</u>
FILE #	<u>1</u>	<u>835</u>	<u>835</u>
TAPE #	<u>578</u>	<u>582</u>	<u>5</u>
WATER DEPTH	<u>4914</u>	<u>4294m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, 4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE ~ 270° SPEED (KTS) ~ 4.3 knots
SHOT ON (TIME / DIST) REP RATE (S) ~ 13 sec (M) ~ 30 m .
SOURCE INFO 10 - AIRGUN ARRAY ; 2320 in³ @ 2000 psi
NAV SYSTEM INFO DIFFERENTIAL GPS.

COMMENTS:

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PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>182 / 30 June 92</u>	<u>182 / 30 June 92</u>	
TIME(Z)	<u>11:23:25</u>	<u>14:23:24</u>	<u>2:59:59</u>
LATITUDE	<u>N15° 33.0001</u>	<u>N15° 33.0077</u>	
LONGITUDE	<u>W58° 52.0107</u>	<u>W58° 38.0258</u>	
SHOTPOINT	<u>0</u>	<u>836</u>	<u>833</u>
FILE #	<u>1</u>	<u>833</u>	<u>833</u>
TAPE #	<u>583</u>	<u>587</u>	<u>5</u>
WATER DEPTH	<u>4471m</u>	<u>4968m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, 4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE 090° SPEED (KTS) 4.55TW / 4.6504
SHOT ON (TIME / DIST) REP RATE (S) (M) 30
SOURCE INFO 10 airgun array, 2320 m³ @ 2000psi
NAV SYSTEM INFO differential GPSCOMMENTS:1st shot: Sp#0, F#1
2nd shot: Sp#3, F#2
missed two shots: 1132 Sp#45 (+ one earlier?)

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PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>182/30 June '92</u>	<u>182/30 June '92</u>	
TIME(Z)	<u>16 : 17 : 57</u>	<u>18 : 10 : 59</u>	<u>01 : 43 : 02</u>
LATITUDE	<u>N 15° 30.437</u>	<u>N 15° 30.4285</u>	
LONGITUDE	<u>W 58° 38.0354</u>	<u>W 58° 46.8093</u>	
SHOTPOINT	<u>2</u>	<u>519</u>	
FILE #	<u>1</u>	<u>517</u>	<u>517</u>
TAPE #	<u>588</u>	<u>590</u>	<u>3</u>
WATER DEPTH	<u>4917</u>	<u>4677</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 1-52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE 273 SPEED (KTS) 4.3
SHOT ON (TIME / DIST) REP RATE (S) 12-14 (M) 30
SOURCE INFO 10 airgun array, 2320 cu. in. @ 2000 psi
NAV SYSTEM INFO differential GPS
COMMENTS: 17542 pulled out gun #12 (air leak) ~ sp #440

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PROJECT Barbados 3-D AREA Barbados Trench P.I. Shiple/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>182 30 June 92</u>	<u>182 30 June 92</u>	
TIME(Z)	<u>19:34:21</u>	<u>21:05:29</u>	<u>01:31:08</u>
LATITUDE	<u>N 15 30.4300</u>	<u>N 15° 30.4241</u>	
LONGITUDE	<u>W 58 45.0994</u>	<u>W 58° 52.0465</u>	
SHOTPOINT	<u>2</u>	<u>415</u>	<u>414</u>
FILE #	<u>1</u>	<u>414</u>	<u>414</u>
TAPE #	<u>591</u>	<u>593</u>	<u>3</u>
WATER DEPTH	<u>4817</u>	<u>4283m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE 271 SPEED (KTS) 4.4
SHOT ON (TIME / DIST) REP RATE (S) 12-14 (M) 30
SOURCE INFO 10 airgun array, 2320 in³ @ 2000 psi
NAV SYSTEM INFO Differential GPSCOMMENTS:

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PROJECT Barbados 3-D AREA Barbados Trench P.I. Shiple/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>182 / 30 June 92</u>	<u>183 / 01 July '92</u>	
TIME(Z)	<u>22:03:57</u>	<u>01:09:37</u>	
LATITUDE	<u>N 15° 33.0258</u>	<u>N 15° 33.0340</u>	
LONGITUDE	<u>W 58° 52.0339</u>	<u>W 58° 38.0281</u>	
SHOTPOINT	<u>0</u>	<u>837</u>	
FILE #	<u>1</u>	<u>835</u>	
TAPE #	<u>594</u>	<u>598</u>	
WATER DEPTH	<u>4457 m</u>	<u>4965</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE SPEED (KTS)
SHOT ON (TIME 3 / DIST) REP RATE (S) (M) 30
SOURCE INFO 10 argon array, 2320 m³ @ 2000 psi
NAV SYSTEM INFO differential GPSCOMMENTS: 1st shot: SP #0, F#1
2nd shot: SP #3, F#2

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PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>183 01 JUL 92</u>	<u>183 01 JUL 92</u>	
TIME(Z)	<u>02:05:28</u>	<u>05:10:14</u>	<u>3:04:46</u>
LATITUDE	<u>N 15° 30.4010</u>	<u>N 15 30.3985</u>	
LONGITUDE	<u>W 58° 38.0366</u>	<u>W 58 52.0426</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>835</u>
FILE #	<u>1</u>	<u>835</u>	<u>835</u>
TAPE #	<u>599</u>	<u>603</u>	<u>5</u>
WATER DEPTH	<u>4912 m</u>	<u>4283</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE ~270° SPEED (KTS) 4.6 SW / 4.3 SW
SHOT ON (TIME / DIST) REP RATE (S) 12-15 (M) ~30
SOURCE INFO 10 airgun array, 2320 cu.in. at 2000 psi
NAV SYSTEM INFO Differential GPS
COMMENTS:

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 149
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>183, 01 JULY 1992</u>	<u>183, 01 July 92</u>	
TIME(Z)	<u>06:17:06</u>	<u>09:24:38</u>	<u>03:07:32</u>
LATITUDE	<u>N15° 33.0518'</u>	<u>N15° 33.0591</u>	
LONGITUDE	<u>W58° 52.0292'</u>	<u>W58° 38.0271</u>	
SHOTPOINT	<u>3</u>	<u>836</u>	<u>816</u>
FILE #	<u>1</u>	<u>816</u>	<u>816</u>
TAPE #	<u>604</u>	<u>608</u>	<u>5</u>
WATER DEPTH	<u>4450</u>	<u>4968m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE ~ 90° (86°) SPEED (KTS) ~ 4.6 K
SHOT ON (TIME (DIST)) REP RATE (S) ~ 13 sec (M) ~ 30 m
SOURCE INFO 10 - AIRGUN ARRAY ; 2320 in³ @ 2000 psi
NAV SYSTEM INFO DIFFERENTIAL GPS.

COMMENTS: Compass fault (#1 - #5) at start. sp #2 + #4
0630 Z Missed 5 shots streamer crashed sp #62-66
0634 Z " " " " sp #71-83
0641 Z Missed 3 shots " " "
0747 Z Missed 4 shots " " sp #402-405
0917 Z missed 2 shots " " sp #802-803

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 249
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>183/01 July 92</u>	<u>183/01 July 92</u>	
TIME(Z)	<u>10:20:24</u>	<u>13:20:44</u>	<u>3:00:20</u>
LATITUDE	<u>N15° 30.3811</u>	<u>N15° 30.3714</u>	
LONGITUDE	<u>W58° 38.0324</u>	<u>W58° 52.0359</u>	
SHOTPOINT	<u>0</u>	<u>836</u>	<u>836</u>
FILE #	<u>1</u>	<u>825</u>	<u>825</u>
TAPE #	<u>609</u>	<u>613</u>	<u>5</u>
WATER DEPTH	<u>4918m</u>	<u>4278</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52

SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4

NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5

COURSE 277° SPEED (KTS) 4.7

SHOT ON (TIME / DIST) REP RATE (S) 12-15 (M) 30

SOURCE INFO 10 airgun array, 2320 in³ @ 2000 psi

NAV SYSTEM INFO differential GPS

COMMENTS:

1st shot: SP #0, F#1

2nd shot: SP #3, F#2

1022Z streamer crashed

1112Z " "

1212Z SP# 520

"MISSED NR"

"ACQUISITION CODE = 8020"

"NAV BLOCK NR."

missed 4 shots

"BEO080" message

missed 6 shots

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PROJECT Barbados 3-D AREA Barbados Trench P.I. Shiple/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>183/01 July 92</u>	<u>183 01 July 92</u>	
TIME(Z)	<u>14:30:11</u>	<u>17:34:48</u>	<u>03:04:37</u>
LATITUDE	<u>N15°33.0772</u>	<u>N 15°33.0875</u>	
LONGITUDE	<u>W58°52.0265</u>	<u>W 58° 38.0289</u>	
SHOTPOINT	<u>2</u>	<u>836</u>	<u>835</u>
FILE #	<u>1</u>	<u>835</u>	<u>835</u>
TAPE #	<u>614</u>	<u>618</u>	<u>5</u>
WATER DEPTH	<u>4450</u>	<u>4970</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE ~090° 87° SPEED (KTS) 4.6
SHOT ON (TIME / DIST) REP RATE (S) (M) 30
SOURCE INFO 10 airgun array , 2320 cu.in. @ 2000 psi
NAV SYSTEM INFO differential GPSCOMMENTS:

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 242 A
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>183 / JULY 01, 1992</u>	<u>183 / 01 JULY 92</u>	
TIME(Z)	<u>18:39:04</u>	<u>21:14:24</u>	<u>2:35:20</u>
LATITUDE	<u>N 15 30.5708</u>	<u>N 15 30.5606</u>	
LONGITUDE	<u>W 58 38.0320</u>	<u>W 58 50.0954</u>	
SHOTPOINT	<u>2</u>	<u>713</u>	<u>702</u>
FILE #	<u>1</u>	<u>702</u>	<u>702</u>
TAPE #	<u>619</u>	<u>622</u>	<u>4</u>
WATER DEPTH	<u>4(?)</u>	<u>4447.0</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3, 4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE ~ 270° SPEED (KTS) ~ 4.5 K
SHOT ON (TIME (DIST)) REP RATE (S) ~ 13 sec (M) ~ 30 m
SOURCE INFO 10- ARGON ARRAY ; 2320 in³ @ 2000 psi
NAV SYSTEM INFO DIFFERENTIAL GPS

COMMENTS: 1839Z Nav Block Inc. sp# 3 & 4
1927Z Pull out gun #16
1935Z Streamer crash - miss 3 sp.
1948Z " " " "
2012Z Gun #16 BACK IN WATER

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PROJECT Barbados 3-D AREA Barbados Trench P.I. Shiple/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>183/01 July 92</u>	<u>183/01 July 92</u>	
TIME(Z)	<u>22:15:46</u>	<u>22:39:08</u>	<u>00:23:17</u>
LATITUDE	<u>N15° 31.7738</u>	<u>N15° 31.7660</u>	
LONGITUDE	<u>W58° 50.2225</u>	<u>W58° 52.0402</u>	
SHOTPOINT	<u>2</u>	<u>110</u>	<u>105</u>
FILE #	<u>1</u>	<u>105</u>	<u>105</u>
TAPE #	<u>623</u>	<u>623</u>	<u>1</u>
WATER DEPTH	<u>4580m</u>	<u>4350m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE 267° SPEED (KTS) 4.5
SHOT ON (TIME / DIST) REP RATE (S) (M) 30
SOURCE INFO 10 airgun array, 2320 m³ @ 2000 psi
NAV SYSTEM INFO differential GPSCOMMENTS:2230Z missed 4 shots due to streamer crash (SP#69-72)

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ABANDONED DUE
TO STREAMER
FAILURE

LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 147
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>183/01 July 92</u>	<u>183/01 July 92</u>	
TIME(Z)	<u>23:25:40</u>	<u>23:41:52</u>	<u>00:16:12</u>
LATITUDE	<u>N15° 33.1057</u>	<u>N15° 33.1081</u>	
LONGITUDE	<u>W58° 52.0330</u>	<u>W58° 50.6289</u>	
SHOTPOINT	<u>5</u>	<u>68</u>	<u>68</u>
FILE #	<u>1</u>	<u>68</u>	<u>68</u>
TAPE #	<u>624</u>	<u>624</u>	<u>1</u>
WATER DEPTH	<u>4459m</u>	<u>4586m</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE 87° SPEED (KTS) 4.1
SHOT ON (TIME / DIST) REP RATE (S) (M) 30
SOURCE INFO 10 argon array, 2320 m³ @ 2000 psi
NAV SYSTEM INFO differential GPS

COMMENTS: ^{@ SOL:} got 1 shot off which was not recorded?
then streamer crashed & was restarted
missed 3 or 4 shots

1st recorded shot: SP#5, F#1

2335Z streamer crashed again - missed 3 shots (SP# 53-55)
2337Z " " " - missed 4 shots (SP# 63-66)

COMPASS FAULT mssgs repeated after every shot

2341Z abandoned line #147

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 147A
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>184 02 JUL 92</u>	<u>184 02 July 92</u>	
TIME(Z)	<u>01:12:09</u>	<u>04:32:12</u>	<u>3:20:03</u>
LATITUDE	<u>N 15° 33.1064</u>	<u>N 15° 33.1145</u>	
LONGITUDE	<u>W 58° 52.0296</u>	<u>W 58° 38.0308</u>	
SHOTPOINT	<u>0</u>	<u>836</u>	<u>829</u>
FILE #	<u>1</u>	<u>829</u>	<u>829</u>
TAPE #	<u>624</u>	<u>628</u>	<u>5</u>
WATER DEPTH	<u>4453m</u>	<u>4971</u>	

REC LENGTH (S) 9 SAMP INT (MSEC) 2 # CHANNELS 52
SEIS CHANS 1-52 AUX CHANS 53-56 PROBLEM CHANS 3,4
NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5
COURSE ~ 090° SPEED (KTS) 3.7 stw / 4.1504
SHOT ON (TIME / DIST) REP RATE (S) 12-15 (M) ~ 30
SOURCE INFO 10 airgun array, 2320 cu. in. at 2000 psi
NAV SYSTEM INFO Differential GPS

COMMENTS: - first shot is SP#0, file #1 ; 2nd shot is SP#3, file #2 - continuous thereafter

- 0119Z - streamer failed / gun window crashed after SP#32, file #31
- 0120Z - streamer & acquisition system crashes again after just 3 records (files 32-34)
- 0121Z - resume normal firing at SP#42, file #36
approx. 5 missing shots in total
- 0233Z - "missed NC" between files #337, 338 - missed SP# 344

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LINE INFORMATION LOG

CRUISE EW92-07 SHIP R/V Maurice Ewing LINE # 1
PROJECT Barbados 3-D AREA Barbados Trench P.I. Shipley/Moore/Moore

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>184; Jul 02, '92</u>	<u>184/02 July 92</u>	
TIME(Z)	<u>07:30:11</u>	<u>21:56:54</u>	<u>14:26:43</u>
LATITUDE	<u>15° 31.8001</u>	<u>N 15° 31.7900</u>	
LONGITUDE	<u>58° 29.2202</u>	<u>W 58° 27.0375</u>	
SHOTPOINT	<u>2</u>	<u>2759</u>	<u>2465</u>
FILE #	<u>1</u>	<u>2645</u>	<u>2465</u>
TAPE #	<u>629</u>	<u>639</u>	<u>11</u>
WATER DEPTH	<u>4797</u>	<u>3433</u>	

REC LENGTH (S) 14 SAMP INT (MSEC) 4 # CHANNELS 52

SEIS CHANS 1 - 52 AUX CHANS 53 - 56 PROBLEM CHANS 3, 4

NEAR OFFSET (M) 190 FAR OFFSET (M) 847.5 CHAN SEP (M) 12.5

COURSE 276° SPEED (KTS) ~4.3 Kt.

SHOT ON (TIME / DIST) REP RATE (S) ~13 sec. (M) ~30 m. 37.5m

SOURCE INFO 10 - AIRGUN ARRAY; 2320 in³ @ 2000 psi

NAV SYSTEM INFO DIFFERENTIAL GPS.

COMMENTS:

New Block No sp# 3
streamer crash - no sp# 14, 15

(covers same as line 190 thru grid)

19, 20
22, 23
39, 40

54, 55, 56

149-150
281-282

340-341

349-50

356-357

373-374

380-381
419-420

4228

428

441-442

444-445

1010Z GUN #1 STOPPED FIRING @ N SP #460 - AIR LEAK

1102Z GUN #1 BACK IN WATER ~ SP #606

PULLING GUN #18 FOR REPAIRS - BACK IN WATER 1147Z

streamer failure: missing SP#

- 652 to 654
- 681 to 682
- 706 to 711
- 718 to 719
- 794 to 795 inc.
- 799 to 801 inc
- 833 to 837 inc.
- 862 to 864 inc.
- 1088 to 1091 inc

1340Z Nav. problems at line switch on navigation program
gives ~60s interval (i.e. ~2 missed shots) between SP#1094, 1095

1817Z Streamer crash missing SP# 2005, 2006, 2007
2010, 2011, 2012

1824Z Streamer crash; missing SP # 2030, 2031 - 2032, 2033,
2035.

Filter jammed 056, 053, 054, 053.

missed NC @ 1829Z; SP # 2044

1840Z Missed NC after SP# ~~2085~~ 2085