

| Seq# 001 | | Line Name: MGL1506MCS01 | NAVIGATION | DATE: 2015-04-12 | Lamont-Doherty Earth Observatory | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------------------|---|--|---|---------------------------------------|-----------------|---------------------------|--|--|------------|------------------|-------------------|---------|-----------------|-------------------|----------|-----------------|-------------------|-----------|---------|--|--|-----------|---------|--|--|-----------|---------|--|--|
| | | Line Brg : 51.076 ° | LINE LOGS | JULIAN DAY: 102 | COLUMBIA UNIVERSITY EARTH INSTITUTE | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLIENT: Deborah Hutchinson - USGS | | SURVEY: ECS 2D Seismic Mission | | AREA: Eastern North America Margin between lat's 30N-42N | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DC SOL : 2083.1 m | DEPTH SOL : 4218.0 m | NAVIGATION SYSTEM USED: C-Nav3050 - Primary | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DC EOL : 922.3 m | DEPTH EOL : 4761.2 m | NAVIGATION SYSTEM USED: SeaPath 200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BSP SOL: 3.8 kts | FEATHER SOL: -17.4 ° | NAVIGATION SYSTEM USED: POSMV | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BSP EOL: 4.4 kts | FEATHER EOL: -01.8 ° | GRAVITY METER: BMG-II: used, SN223 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WEATHER | MAX FEATHER: 20.8 ° | MAGNETOMETER: GeoMetrics: used | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WIND SOL: E 22 kts | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WIND EOL: SE 14 kts | shift hours | shift leaders | shift hours | watch personnel | shift hours | watch personnel | | | | | | | | | | | | | | | | | | | | | | | | |
| SEAS SOL: 2.0 m | 16:00 - 04:00 utc => | Alan Thompson | 16:00 - 04:00 utc => | Gilles Guerin | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SEAS EOL: 1.0 m | 04:00 - 16:00 utc => | Mike Martello | 04:00 - 16:00 utc => | Klayton Curtis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COMMENTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SP | UTC | EVENT | <table border="1"> <thead> <tr> <th colspan="3">VESSEL POSITION</th> </tr> <tr> <th>Shotpoints</th> <th>Latitude (N / +)</th> <th>Longitude (W / -)</th> </tr> </thead> <tbody> <tr> <td>FSP 759</td> <td>32° 18' 03.459"</td> <td>-075° 00' 47.184"</td> </tr> <tr> <td>LSP 3371</td> <td>33° 00' 57.280"</td> <td>-073° 54' 22.952"</td> </tr> </tbody> </table> | | | | VESSEL POSITION | | | Shotpoints | Latitude (N / +) | Longitude (W / -) | FSP 759 | 32° 18' 03.459" | -075° 00' 47.184" | LSP 3371 | 33° 00' 57.280" | -073° 54' 22.952" | | | | | | | | | | | | |
| VESSEL POSITION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shotpoints | Latitude (N / +) | Longitude (W / -) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FSP 759 | 32° 18' 03.459" | -075° 00' 47.184" | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LSP 3371 | 33° 00' 57.280" | -073° 54' 22.952" | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 759 | 11:50 | SOL | start of 2D acquisition 50m shot spacing, 6km streamer powered up (1 ms sample rate) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 806 | 12:09 | syntrak | problems with recording sys, prntu0, to this point. First recorded seismic shot | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 825 | 12:17 | XBT | T5 seq 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 971 | 13:20 | abort line | lack of compass data updates | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | stop and restart spectra several times while trouble-shooting | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1008 | 13:36 | Restart line | Spectra problem resolved, continue on line with same name/seq. FGSP is 1008 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1353 | 15:51 | XBT | T5 Seq 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2705 | 00:00 | Midnight | Midnight shot point | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3032 | 01:41 | XBT | T4 Seq 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3371 | 4:03 | EOL | End of line | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="4">NAVIGATION OFFSET APPLIED</th> </tr> </thead> <tbody> <tr> <td>NRP - Stern</td> <td colspan="3">29.5m</td> </tr> <tr> <td>NRP - COS</td> <td colspan="3">205.0m</td> </tr> <tr> <td>NRP - CNG</td> <td colspan="3">523.50m</td> </tr> <tr> <td>COS - CNG</td> <td colspan="3">318.50m</td> </tr> <tr> <td>NRP - CMP</td> <td colspan="3">364.25m</td> </tr> </tbody> </table> | | | | | | | NAVIGATION OFFSET APPLIED | | | | NRP - Stern | 29.5m | | | NRP - COS | 205.0m | | | NRP - CNG | 523.50m | | | COS - CNG | 318.50m | | | NRP - CMP | 364.25m | | |
| NAVIGATION OFFSET APPLIED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NRP - Stern | 29.5m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NRP - COS | 205.0m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NRP - CNG | 523.50m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COS - CNG | 318.50m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NRP - CMP | 364.25m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Posnet locations & remarks: good - none - intermittent | | acoustics | | MGL1506_v2.LMN | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tailbuoy #1 | Intermittent | Gun string #1 | GOOD | mgl1502.RTCN | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tailbuoy #2 | none | Gun string #2 | GOOD | SP spacing: 50.0m | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tailbuoy #3 | none | Gun string #3 | GOOD | line status: Complete | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tailbuoy #4 | none | Gun string #4 | GOOD | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Seq# 002 | | | | Line Name: MGL1506MCS02 | | NAVIGATION | | DATE: 2015-04-13 | | Lamont-Doherty Earth Observatory | |
|--|--|----------------------|--|---|--|--|--|---|--|--|--|
| | | | | Line Brg : 155.171 ° | | LINE LOGS | | JULIAN DAY: 103 | | COLUMBIA UNIVERSITY EARTH INSTITUTE | |
| CLIENT: Deborah Hutchinson - USGS | | | | SURVEY: ECS 2D Seismic Mission | | | | AREA: Eastern North America Margin between lat's 30N-42N | | | |
| DC SOL : 511.7 m | | DEPTH SOL : 4760.7 m | | NAVIGATION SYSTEM USED: C-Nav3050 - Primary | | DC EOL : -59.7 m | | DEPTH EOL : 5366.6 m | | NAVIGATION SYSTEM USED: SeaPath 200 | |
| BSP SOL: 4.8 kts | | FEATHER SOL: na | | NAVIGATION SYSTEM USED: POSMV | | BSP EOL: | | FEATHER EOL: 03.0 ° | | GRAVITY METER: BMG-II: used, SN223 | |
| WEATHER | | MAX FEATHER: -10.8 ° | | MAGNETOMETER: GeoMetrics: used | | WIND SOL: SE 14 kts | | WIND EOL: SE 9.5 kts | | | |
| SEAS SOL: 1.0 m | | shift hours | | shift leaders | | shift hours | | watch personnel | | shift hours | |
| SEAS EOL: 1.0 m | | 16:00 - 04:00 utc => | | Alan Thompson | | 16:00 - 04:00 utc => | | Gilles Guerin | | | |
| | | 04:00 - 16:00 utc => | | Mike Martello | | 04:00 - 16:00 utc => | | Klayton Curtis | | | |
| SP | | UTC | | EVENT | | COMMENTS | | | | VESSEL POSITION | |
| 3530 | | 04:08 | | SOL | | start of 2D acquisition 50m shot spacing, 6km streamer powered up (1 ms sample rate) | | | | Shotpoints | |
| 3530 | | 04:08 | | XBT | | T5 seq 6 | | FSP | | 3530 33° 00' 48.991" -073° 53' 57.286" | |
| 4641 | | 10:39 | | XBT | | T5 seq 7 | | LSP | | 8488 30° 58' 55.013" -072° 48' 15.518" | |
| 5256 | | 14:15 | | XBT | | T11 seq 8 | | | | NAVIGATION OFFSET APPLIED | |
| 6093 | | 19:11 | | Failure | | Loss of CNAV3050 and SeaPath input to all systems | | | | NRP - Stern 29.5m | |
| 6132 | | 19:25 | | Restored | | Network reset | | | | NRP - COS 205.0m | |
| 6153 | | 19:32 | | Online | | SeaPath back online | | | | NRP - CNG 523.50m | |
| 6164 | | 19:36 | | Online | | CNAV3050 back online | | | | COS - CNG 318.50m | |
| 6177 | | 19:41 | | Online | | EM122 back online | | | | NRP - CMP 364.25m | |
| 6387 | | 20:58 | | XBT | | T4 Seq 9 | | | | | |
| 6842 | | 00:00 | | Midnight | | | | | | | |
| 7340 | | 3:21 | | XBT | | T5 Seq 10 | | | | | |
| 7754 | | 06:14 | | XBT | | T5 Seq 11 | | | | | |
| 8469 | | 10:37 | | XBT | | T11 Seq 12 | | | | | |
| 8488 | | 10:43 | | EOL | | End of line | | | | | |
| Posnet locations & remarks: good - none - intermittent | | acoustics | | | | | | MGL1506_v2.LMN | | mgl1502.RTCN | |
| Tailbuoy #1 Intermittent | | Gun string #1 | | GOOD | | OPERATIONAL | | SP spacing: 50.0m | | | |
| Tailbuoy #2 none | | Gun string #2 | | GOOD | | | | | | | |
| Tailbuoy #3 none | | Gun string #3 | | GOOD | | | | | | | |
| Tailbuoy #4 none | | Gun string #4 | | Intermittent | | | | | | line status: Complete | |

| Seq# 003 | | Line Name: MGL1506MCS03 | | <u>NAVIGATION</u> | | DATE: 2015-04-14 | | Lamont-Doherty Earth Observatory | | |
|--|--------------|---|--|--|------------------------------|------------------------|-------------------|---|--|--------------|
| | | Line Brg : 128.412 ° | | <u>LINE LOGS</u> | | JULIAN DAY: 104 | | COLUMBIA UNIVERSITY EARTH INSTITUTE | | |
| CLIENT: Deborah Hutchinson - USGS | | | | SURVEY: ECS 2D Seismic Mission | | | | AREA: Eastern North America Margin between lat's 30N-42N | | |
| DC SOL : | 13.6 m | DEPTH SOL : | 5371.6 m | NAVIGATION SYSTEM USED: C-Nav3050 - Primary | | | | | | |
| DC EOL : | -91.3 m | DEPTH EOL : | 5398.5 m | NAVIGATION SYSTEM USED: SeaPath 200 | | | | | | |
| BSP SOL: | 4.5 kts | FEATHER SOL: | -13.9 ° | NAVIGATION SYSTEM USED: POSMV | | | | | | |
| BSP EOL: | 4.7 kts | FEATHER EOL: | 02.2 ° | GRAVITY METER: BMG-II: used, SN223 | | | | | | |
| WEATHER | | | | MAGNETOMETER: GeoMetrics: used | | | | | | |
| WIND SOL: SE 9.5 kts | | MAX FEATHER: -13.9 ° | | | | | | | | |
| WIND EOL: | S 14 kts | shift hours shift leaders shift hours watch personnel | | shift hours watch personnel | | | | | | |
| SEAS SOL: | 1.0 m | 16:00 - 04:00 utc => Alan Thompson | | 16:00 - 04:00 utc => Gilles Guerin | | | | | | |
| SEAS EOL: | 1.0 m | 04:00 - 16:00 utc => Mike Martello | | 04:00 - 16:00 utc => Klayton Curtis | | | | | | |
| SP | | UTC | EVENT | COMMENTS | | | | | | |
| 8507 | 10:45 | SOL | start of 2D acquisition 50m shot spacing, 8km streamer powered up (2 ms sample rate) | | | | | | | |
| 8513 | 10:48 | FGSP | First good shotpoint after syntrak reset to 2ms | | | | | | | |
| 9157 | 14:33 | XBT | T11 Seq 13 | | | | | | | |
| 10188 | 20:38 | XBT | T11 Seq 14 | | | | | | | |
| 10209 | 20:46 | XBT | T11 Seq 15 | | | | | | | |
| 10240 | 20:57 | XBT | T11 Seq 16 | | | | | | | |
| 10260 | 21:04 | XBT | T11 Seq 17 | | | | | | | |
| 10750 | 00:00 | Midnight | | | | | | | | |
| 10988 | 01:30 | SOTurn | Begin turning to line MCS04 | | | | | | | |
| 11025 | 01:45 | XBT | T5 Seq 18 | | | | | | | |
| 11025 | 01:45 | EOL | | | | | | | | |
| | | | | VESSEL POSITION | | | | | | |
| | | | | Shotpoints | Latitude (N / +) | Longitude (W / -) | | | | |
| | | | | FSP | 8507 | 30° 58' 46.838" | -072° 48' 07.254" | | | |
| | | | | LSP | 11025 | 30° 08' 17.127" | -071° 55' 15.018" | | | |
| | | | | NAVIGATION OFFSET APPLIED | | | | | | |
| | | | | NRP - Stern | 29.5m | | | | | |
| | | | | NRP - COS | 205.0m | | | | | |
| | | | | NRP - CNG | 523.50m | | | | | |
| | | | | COS - CNG | 318.50m | | | | | |
| | | | | NRP - CMP | 364.25m | | | | | |
| Posnet locations & remarks: good - none - intermittent | | | | acoustics | MGL1506_v2.LMN | | | | | mgl1502.RTCN |
| Tailbuoy #1 | Intermittent | Gun string #1 | GOOD | OPERATIONAL | SP spacing: 50.0m | | | | | |
| Tailbuoy #2 | none | Gun string #2 | GOOD | | line status: Complete | | | | | |
| Tailbuoy #3 | none | Gun string #3 | GOOD | | | | | | | |
| Tailbuoy #4 | none | Gun string #4 | Intermittent | | | | | | | |

| | | | | | | |
|---|----------------------|---|--|---|---------------------------------------|---|
| Seq# 005 | | Line Name: MGL1506MCS05 | NAVIGATION | DATE: 2015-04-15 | Lamont-Doherty Earth Observatory | |
| | | Line Brg : 12.954 ° | LINE LOGS | JULIAN DAY: 105 | COLUMBIA UNIVERSITY EARTH INSTITUTE | |
| CLIENT: Deborah Hutchinson - USGS | | SURVEY: ECS 2D Seismic Mission | | AREA: Eastern North America Margin between lat's 30N-42N | | |
| DC SOL : 1.4 m | DEPTH SOL : 5413.2 m | NAVIGATION SYSTEM USED: C-Nav3050 - Primary | | | | |
| DC EOL : -127.1 m | DEPTH EOL : 5411.1 m | NAVIGATION SYSTEM USED: SeaPath 200 | | | | |
| BSP SOL: 4.9 kts | FEATHER SOL: -38.9 ° | NAVIGATION SYSTEM USED: POSMV | | | | |
| BSP EOL: 4.9 kts | FEATHER EOL: 06.5 ° | GRAVITY METER: BMG-II: used, SN223 | | | | |
| WEATHER | MAX FEATHER: -38.9 ° | MAGNETOMETER: GeoMetrics: used | | | | |
| WIND SOL: S 5 kts | | | | | | |
| WIND EOL: W 11 kts | shift hours | shift leaders | shift hours | watch personnel | shift hours | watch personnel |
| SEAS SOL: 1.0 m | 16:00 - 04:00 utc => | Alan Thompson | 16:00 - 04:00 utc => | Gilles Guerin | | |
| SEAS EOL: 1.0 m | 04:00 - 16:00 utc => | Mike Martello | 04:00 - 16:00 utc => | Klayton Curtis | | |
| COMMENTS | | | | | | |
| SP | UTC | EVENT | | | | VESSEL POSITION |
| 13509 | 14:26 | SOL/FGSP | start of 2D acquisition 50m shot spacing, 8km streamer powered up (2 ms sample rate) | | | |
| 13603 | 14:58 | XBT | T-4 Seq 25 | | | Shotpoints |
| 13847 | 16:21 | XBT | T-11 Seq 26 | | | 13509 30° 43' 51.602" -070° 58' 23.286" |
| 14086 | 17:45 | XBT | T-11 Seq 27 | | | LSP 14810 31° 19' 00.778" -070° 49' 17.307" |
| 14198 | 18:25 | XBT | T-11 Seq 28 | | | |
| 14389 | 19:30 | XBT | T-11 Seq 29 | | | |
| 14495 | 20:06 | XBT | T-11 Seq 30 | | | |
| 14578 | 20:34 | XBT | T-11 Seq 31 | | | |
| 14812 | 21:54 | Turn | Start of turn to MCS06 | | | |
| 14810 | 22:04 | EOL | | | | |
| Posnet locations & remarks: good - none - intermittent | | acoustics | | MGL1506_v2.LMN mgl1502.RTCN | | |
| Tailbuoy #1 | Intermittent | Gun string #1 | GOOD | OPERATIONAL | | |
| Tailbuoy #2 | none | Gun string #2 | GOOD | | | |
| Tailbuoy #3 | none | Gun string #3 | GOOD | | | |
| Tailbuoy #4 | none | Gun string #4 | Intermittent | | | |
| | | | | SP spacing: | 50.0m | |
| | | | | line status: | Complete | |

| | | | | | | |
|---|-----------------------------|---|---|---|---------------------------------------|-----------------|
| Seq# 006 | | Line Name: MGL1506MCS06 | NAVIGATION | DATE: 2015-04-15 | Lamont-Doherty Earth Observatory | |
| | | Line Brg : 307.959 ° | LINE LOGS | JULIAN DAY: 105 | COLUMBIA UNIVERSITY EARTH INSTITUTE | |
| CLIENT: Deborah Hutchinson - USGS | | SURVEY: ECS 2D Seismic Mission | | AREA: Eastern North America Margin between lat's 30N-42N | | |
| DC SOL : -127.1 m | DEPTH SOL : 5419.9 m | NAVIGATION SYSTEM USED: C-Nav3050 - Primary | | | | |
| DC EOL : 966.1 m | DEPTH EOL : 5306.4 m | NAVIGATION SYSTEM USED: SeaPath 200 | | | | |
| BSP SOL: 1.0 kts | FEATHER SOL: -58.0 ° | NAVIGATION SYSTEM USED: POSMW | | | | |
| BSP EOL: 3.5 kts | FEATHER EOL: 03.0 ° | GRAVITY METER: BMG-II: used, SN223 | | | | |
| WEATHER | MAX FEATHER: -58.0 ° | MAGNETOMETER: GeoMetrics: used | | | | |
| WIND SOL: W 11 kts | | | | | | |
| WIND EOL: SE 20 kts | shift hours | shift leaders | shift hours | watch personnel | shift hours | watch personnel |
| SEAS SOL: 1.0 m | 16:00 - 04:00 utc => | Alan Thompson | 16:00 - 04:00 utc => | Gilles Guerin | | |
| SEAS EOL: 1.5 m | 04:00 - 16:00 utc => | Mike Martello | 04:00 - 16:00 utc => | Klayton Curtis | | |
| SP | UTC | EVENT | COMMENTS | | | |
| 14911 | 22:07 | SOL | start of 2D acquisition 50m shot spacing, 8km streamer powered up (2 ms sample rate) | | | |
| | | | String 2 @ SOL on board for repairs, firing 1,3,4 @ 5010cubic inches | | | |
| 14914 | 22:08 | FGSP | First shot recorded on syntrak | | | |
| 15032 | 22:50 | XBT | T-4 Seq 32 | | | |
| 15218 | 00:00 | Midnight | | | | |
| 16041 | 04:56 | XBT | T-4 Seq 33 | | | |
| 16371 | 06:55 | airguns | Air leak on array 4 | | | |
| 16405 | 07:07 | airguns | secure strings 3 & 4 - begin retrieval of array 4 for airleak | | | |
| 16431 | 07:16 | airguns | firing arrays 1,2,3 30 guns 5310 cu in | | | |
| 16460 | 07:27 | airguns | array 4 on board | | | |
| 16692 | 08:50 | airguns | start array 4 out | | | |
| 16740 | 09:07 | airguns | new vol 3480 20guns | | | |
| 16751 | 09:11 | airguns | new vol 6600 36guns | | | |
| 16793 | 09:26 | XBT | T-4 Seq 34 | | | |
| 17598 | 14:09 | XBT | T-5 Seq 35 | | | |
| 17885 | 15:55 | Streamer | Unable to keep birds at depth d/t weather conditions, middle of streamer on the surface | | | |
| 17902 | 16:03 | XBT | T-11 Seq 36 | | | |
| 18060 | 17:11 | Streamer | Streamer under control - depth @ 12m | | | |
| 18713 | 21:30 | XBT | T-11 Seq37 | | | |
| 19040 | 00:00 | Midnight | | | | |
| 19306 | 02:00 | Turn | Begin turning MCS07 | | | |
| 19340 | 02:17 | EOL | | | | |
| Posnet locations & remarks: good - none - intermittent | | acoustics | | MGL1506_v2.LMN | | |
| Tailbuoy #1 | Intermittent | Gun string #1 | GOOD | mg11502.RTCN | | |
| Tailbuoy #2 | none | Gun string #2 | GOOD | SP spacing: 50.0m | | |
| Tailbuoy #3 | none | Gun string #3 | GOOD | line status: Complete | | |
| Tailbuoy #4 | none | Gun string #4 | Intermittent | | | |

| | | | | | | | | | | |
|---|--------------|--------------------------------|--|---|----------------|---|---------------------|---------------------------------------|----------------------------------|---|
| Seq# 007 | | Line Name: MGL1506MCS07 | | NAVIGATION | | DATE: 2015-04-17 | | Lamont-Doherty Earth Observatory | | |
| | | Line Brg : 65.867 ° | | LINE LOGS | | JULIAN DAY: 107 | | COLUMBIA UNIVERSITY EARTH INSTITUTE | | |
| CLIENT: Deborah Hutchinson - USGS | | | SURVEY: ECS 2D Seismic Mission | | | AREA: Eastern North America Margin between lat's 30N-42N | | | | |
| DC SOL : 1078.8 m | | DEPTH SOL : 5310.9 m | | NAVIGATION SYSTEM USED: C-Nav3050 - Primary | | | | | | |
| DC EOL : 248.3 m | | DEPTH EOL : 5353.0 m | | NAVIGATION SYSTEM USED: SeaPath 200 | | | | | | |
| BSP SOL: 4.1 kts | | FEATHER SOL: 119.2 ° | | NAVIGATION SYSTEM USED: POSMV | | | | | | |
| BSP EOL: 4.3 kts | | FEATHER EOL: -01.2 ° | | GRAVITY METER: BMG-II: used, SN223 | | | | | | |
| WEATHER | | MAX FEATHER: 05.0 ° | | MAGNETOMETER: GeoMetrics: used | | | | | | |
| WIND SOL: SE 20 kts | | | | | | | | | | |
| WIND EOL: SSE 17 kts | | shift hours | | shift leaders | | shift hours | | watch personnel | | |
| SEAS SOL: 1.5 m | | 16:00 - 04:00 utc => | | Alan Thompson | | 16:00 - 04:00 utc => | | Gilles Guerin | | |
| SEAS EOL: 2.0 m | | 04:00 - 16:00 utc => | | Mike Martello | | 04:00 - 16:00 utc => | | Klayton Curtis | | |
| | | | COMMENTS | | | | | | | |
| SP | UTC | EVENT | | | | | | | VESSEL POSITION | |
| 19439 | 02:21 | SOL | start of 2D acquisition 50m shot spacing, 8km streamer powered up (2 ms sample rate) | | | | | | Shotpoints | |
| 19448 | 02:26 | XBT | T4 seq38 | | | | | | Latitude (N / +) | |
| 20693 | 1040 | EOL | | | | | | | Longitude (W / -) | |
| | | | | | | | | | FSP | 19439 32° 32' 48.748" -072° 40' 28.320" |
| | | | | | | | | | LSP | 20693 32° 46' 59.830" -072° 04' 02.225" |
| | | | | | | | | | NAVIGATION OFFSET APPLIED | |
| | | | | | | | | | NRP - Stern | 29.5m |
| | | | | | | | | | NRP - COS | 205.0m |
| | | | | | | | | | NRP - CNG | 523.50m |
| | | | | | | | | | COS - CNG | 318.50m |
| | | | | | | | | | NRP - CMP | 364.25m |
| Posnet locations & remarks: good - none - intermittent | | | acoustics | | MGL1506_v2.LMN | | | | | mg11502.RTCN |
| Tailbuoy #1 | Intermittent | Gun string #1 | GOOD | OPERATIONAL | | | | | | |
| Tailbuoy #2 | none | Gun string #2 | GOOD | | | | | | | |
| Tailbuoy #3 | none | Gun string #3 | GOOD | | | | | | | |
| Tailbuoy #4 | none | Gun string #4 | Intermittent | | | | | | | |
| | | | | | | | SP spacing: | 50.0m | | |
| | | | | | | | line status: | Complete | | |

| | | | | | | |
|---|----------------------|---------------------------------------|--|---|-------------------------|--|
| Seq# 009 | | | Line Name: MGL1506MCS09A | NAVIGATION | DATE: 2015-04-18 | Lamont-Doherty Earth Observatory |
| | | | Line Brg : 335.935 ° | LINE LOGS | JULIAN DAY: 108 | COLUMBIA UNIVERSITY EARTH INSTITUTE |
| CLIENT: Deborah Hutchinson - USGS | | SURVEY: ECS 2D Seismic Mission | | AREA: Eastern North America Margin between lat's 30N-42N | | |
| DC SOL : -22.9 m | DEPTH SOL : 5660.9 m | | NAVIGATION SYSTEM USED: C-Nav3050 - Primary | | | |
| DC EOL : 676.1 m | DEPTH EOL : 4504.9 m | | NAVIGATION SYSTEM USED: SeaPath 200 | | | |
| BSP SOL: 3.9 kts | FEATHER SOL: 04.4 ° | | NAVIGATION SYSTEM USED: POSMV | | | |
| BSP EOL: 3.4 kts | FEATHER EOL: -00.6 ° | | GRAVITY METER: BMG-II: used, SN223 | | | |
| WEATHER | MAX FEATHER: 06.3 ° | | MAGNETOMETER: GeoMetrics: used | | | |
| WIND SOL: SW 4 kts | | | | | | |
| WIND EOL: SSE 20 kts | shift hours | | shift leaders | shift hours | | watch personnel |
| SEAS SOL: calm | 16:00 – 04:00 utc => | | Alan Thompson | 16:00 – 04:00 utc => | | Gilles Guerin |
| SEAS EOL: 2.0 m | 04:00 – 16:00 utc => | | Mike Martello | 04:00 – 16:00 utc => | | Klayton Curtis |
| SP | UTC | EVENT | COMMENTS | | | VESSEL POSITION |
| 30099 | 14:14 | SOL | start of 2D acquisition 50m shot spacing, 8km streamer powered up (2 ms sample rate) | | | Shotpoints |
| | | | sol vol: 4950 cu in, guns 27 using arrays 1, 3, and 4. | | | Latitude (N / +) |
| 30100 | 14:14 | FGSP | First shot point with nav data to syntrak | | | Longitude (W / -) |
| 30155 | 14:37 | XBT | T4 seq 43 | | | FSP 30099 32° 09' 37.536" -070° 23' 40.335" |
| 30216 | 15:02 | array2 | start array 2 out | | | LSP 35925 34° 33' 16.678" -071° 40' 53.299" |
| 30260 | 15:20 | array2 | array2 in position, swap out for array1, no vol change or number of guns. | | | |
| 30262 | 15:21 | array1 | start array1 in. | | | |
| 30291 | 15:33 | array1 | array on board | | | |
| 30391 | 16:14 | array1 | start array 1 out | | | |
| 30445 | 16:37 | Full volume | all arrays deployed - firing 6600 cubic inches | | | |
| 31626 | 00:00 | Midnight | | | | |
| 32459 | 05:50 | syntrak | system not recording - lsp recorded | | | |
| 32710 | 07:40 | syntrak | restart spectra - no change - New P294 and raw P190 created | | | |
| 32735 | 07:49 | syntrak | restart syntrak - now recording | | | |
| 33588 | 12:49 | XBT | T4 seq 44 | | | |
| 34366 | 17:40 | XBT | T4 seq 45 | | | |
| 34713 | 19:59 | syntrak | system not recording - lsp recorded | | | |
| 34756 | 20:17 | syntrak | syntrak rebooted - fsp recorded | | | |
| 35281 | 00:00 | Midnight | | | | |
| 35759 | 03:34 | XBT | T4 Seq 46 | | | |
| | 04:30 | SO turn | start of turn to next line | | | |
| 35925 | 04:54 | EOL | | | | |
| Posnet locations & remarks: good - none - intermittent | | acoustics | | MGL1506_v2.LMN | | |
| Tailbuoy #1 | Intermittent | Gun string #1 | GOOD | mg11502.RTCN | | |
| Tailbuoy #2 | none | Gun string #2 | GOOD | SP spacing: 50.0m | | |
| Tailbuoy #3 | none | Gun string #3 | GOOD | line status: Complete | | |
| Tailbuoy #4 | none | Gun string #4 | none | | | |

| Line Name: MGL1506MCS10 | | | NAVIGATION | | DATE: 2015-04-20 | Lamont-Doherty Earth Observatory | |
|--|-------------------------|---------------|--|-----------------------|------------------------|---|-----------------|
| Line Brg : 85.189 ° | | | LINE LOGS | | JULIAN DAY: 110 | COLUMBIA UNIVERSITY EARTH INSTITUTE | |
| CLIENT: Deborah Hutchinson - USGS | | | SURVEY: ECS 2D Seismic Mission | | | AREA: Eastern North America Margin between lat's 30N-42N | |
| DC SOL : 949.9 m | DEPTH SOL : 4505.8 m | | NAVIGATION SYSTEM USED: C-Nav3050 - Primary | | | | |
| DC EOL : -555.9m | DEPTH EOL : 5238.6 m | | NAVIGATION SYSTEM USED: SeaPath 200 | | | | |
| BSP SOL: 3.9 kts | FEATHER SOL: 107 (turn) | | NAVIGATION SYSTEM USED: POSMW | | | | |
| BSP EOL: 4.9 kts | FEATHER EOL: -10.0 ° | | GRAVITY METER: BMG-II: used, SN223 | | | | |
| WEATHER | MAX FEATHER: 107.0 ° | | MAGNETOMETER: GeoMetrics: used | | | | |
| WIND SOL: SSE 20 kts | | | | | | | |
| WIND EOL: SE 5 kts | shift hours | | shift leaders | | shift hours | | watch personnel |
| SEAS SOL: 2.0 m | 16:00 – 04:00 utc => | | Alan Thompson | | 16:00 – 04:00 utc => | | Gilles Guerin |
| SEAS EOL: 1.5 m | 04:00 – 16:00 utc => | | Mike Martello | | 04:00 – 16:00 utc => | | Klayton Curtis |
| SP | UTC | EVENT | COMMENTS | | | | |
| 37028 | 05:00 | SOL | start of 2D acquisition 50m shot spacing, 8km streamer powered up (2 ms sample rate) | | | | |
| | | | sol vol: 6600 cu in, guns 36 using arrays 1, 2, 3, and 4. | | | | |
| 37498 | 07:51 | compressor | last good sp prior to shutting guns down due to compressor problems - slow vessel | | | | |
| 37513 | 07:56 | compressor | first good shot after gun shut down - resuming vessel speed | | | | |
| 37546 | 08:08 | XBT | T4 seq 47 | | | | |
| 37587 | 08:22 | XBT | T11 seq 48 | | | | |
| 37945 | 10:29 | XBT | T5 seq 49 | | | | |
| 38167 | 11:48 | syntrak | last sp with 18sec parameters | | | | |
| 38171 | 11:50 | syntrak | first sp with 17sec parameters | | | | |
| 38330 | 12:42 | XBT | T11 seq 50 | | | | |
| 38351 | 12:49 | XBT | T11 seq 51 | | | | |
| 38409 | 13:09 | XBT | T11 seq 52 | | | | |
| 38462 | 13:27 | XBT | T11 seq 53 | | | | |
| 38525 | 13:48 | XBT | T5 seq 54 | | | | |
| 38551 | 13:57 | XBT | T11 seq 55 | | | | |
| 38566 | 14:02 | XBT | T11 seq 56 | | | | |
| 38625 | 14:21 | offline | vessel pushed offline by seas/wind up 193m | | | | |
| 38658 | 14:32 | XBT | T11 seq 57 | | | | |
| 38688 | 14:42 | XBT | T5 seq 58 | | | | |
| 39097 | 17:03 | XBT | T11 Seq 59 | | | | |
| 39909 | 21:20 | Turn | Start of turn to MCS11 | | | | |
| | | | | | | | |
| 39953 | 22:06 | EOL | | | | | |
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| | | | wind and seas make holding the line difficult | | | | |
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| | | | | | | | |
| Posnet locations & remarks: good - none - intermittent | | | acoustics | | MGL1506_v2.LMN | | |
| mgl1502.RTCN | | | OPERATIONAL | | SP spacing: 50.0m | | |
| Tailbuoy #1 | intermittent | Gun string #1 | GOOD | line status: Complete | | | |
| Tailbuoy #2 | none | Gun string #2 | GOOD | | | | |
| Tailbuoy #3 | none | Gun string #3 | GOOD | | | | |
| Tailbuoy #4 | none | Gun string #4 | none | | | | |

| VESSEL POSITION | | | |
|-----------------|------------------|-------------------|-------------------|
| Shotpoints | Latitude (N / +) | Longitude (W / -) | |
| FSP | 37028 | 34° 33' 35.352" | -071° 40' 41.754" |
| LSP | 39953 | 34° 40' 49.200" | -070° 05' 15.559" |

| NAVIGATION OFFSET APPLIED | |
|---------------------------|---------|
| NRP - Stern | 29.5m |
| NRP - COS | 205.0m |
| NRP - CNG | 523.50m |
| COS - CNG | 318.50m |
| NRP - CMP | 364.25m |

SCN.005 change RGPS calculation from slant to horizontal positioning

| Seq# 012 | | Line Name: MGL1506MCS12 | NAVIGATION | DATE: 2015-04-21 | Lamont-Doherty Earth Observatory |
|--|-----------------------------|---|--|--|---|
| | | Line Brg : 87.103 ° | LINE LOGS | JULIAN DAY: 111 | COLUMBIA UNIVERSITY EARTH INSTITUTE |
| CLIENT: Deborah Hutchinson - USGS | | SURVEY: ECS 2D Seismic Mission | | AREA: Eastern North America Margin between lat's 30N-42N | |
| DC SOL : 1115.2m | DEPTH SOL : 4503.6 m | NAVIGATION SYSTEM USED: C-Nav3050 - Primary | | | |
| DC EOL : -202.0m | DEPTH EOL : 4929.4 m | NAVIGATION SYSTEM USED: SeaPath 200 | | | |
| BSP SOL: 4.9 kts | FEATHER SOL: 106.3 ° turn ° | NAVIGATION SYSTEM USED: POSMW | | | |
| BSP EOL: 4.3 kts | FEATHER EOL: -05.0 ° | GRAVITY METER: BMG-II: used, SN223 | | | |
| WEATHER | MAX FEATHER: -40.0 ° | MAGNETOMETER: GeoMetrics: used | | | |
| WIND SOL: SW 18 kts | | | | | |
| WIND EOL: N 13 kts | shift hours | shift leaders | shift hours | watch personnel | shift hours |
| SEAS SOL: 2.0 m | 16:00 - 04:00 utc => | Alan Thompson | 16:00 - 04:00 utc => | Gilles Guerin | |
| SEAS EOL: 1.0 m | 04:00 - 16:00 utc => | Mike Martello | 04:00 - 16:00 utc => | Klayton Curtis | |
| SP | UTC | EVENT | COMMENTS | VESSEL POSITION | |
| 43018 | 08:05 | SOL | start of 2D acquisition 50m shot spacing, 8km streamer powered up (2 ms sample rate) | Shotpoints Latitude (N / +) Longitude (W / -) | |
| | | | sol vol: 6600 cu in, guns 36 using arrays 1, 2, 3, and 4. | FSP | 43018 35° 29' 04.069" -070° 23' 54.559" |
| 43208 | 09:45 | XBT | T5 seq 61 | LSP | 46037 35° 33' 12.447" -068° 44' 11.038" |
| 43755 | 15:10 | feather | feather angle now less than 20 degrees port | NAVIGATION OFFSET APPLIED | |
| 43866 | 16:18 | feather | feather angle greater than 20 degrees port | NRP - Stern | 29.5m |
| 44158 | 19:41 | XBT | T4 Seq 62 | NRP - COS | 205.0m |
| 44206 | 20:11 | feather | feather angle now less than 20 deg. Port | NRP - CNG | 523.50m |
| 44380 | 21:50 | streamer | retrieving streamer to adjust stern towing harness | COS - CNG | 318.50m |
| 44418 | 22:10 | streamer | streamer returned to towing position | NRP - CMP | 364.25m |
| 44654 | 00:00 | Midnight | | | |
| 45122 | 03:31 | XBT | T4 Seq 63 | | |
| 45322 | 0510 | feather | feather angle greater than 20 degrees stbd | | |
| 45409 | 05:58 | XBT | T5 Seq 64 | | |
| 45620 | 07:51 | feather | feather angle less than 20 degrees stbd | | |
| 45642 | 08:03 | XBT | T5 Seq 65 | | |
| | 10:46 | turn | start of turn port to next line | | |
| 46037 | 10:54 | EOL | | | |
| Posnet locations & remarks: good - none - intermittent | | acoustics | | MGL1506_v2.LMN | mgl1502.RTCN |
| Tailbuoy #1 | Intermittent | Gun string #1 | GOOD | SP spacing: 50.0m | |
| Tailbuoy #2 | none | Gun string #2 | GOOD | | |
| Tailbuoy #3 | none | Gun string #3 | GOOD | | |
| Tailbuoy #4 | none | Gun string #4 | none | | |
| OPERATIONAL | | | | line status: | Complete |

| Line Name: MGL1506MCS13 | | | | NAVIGATION | | DATE: 2015-04-22 | | Lamont-Doherty Earth Observatory | |
|--|--------------|----------------------|--|---|-------------------|--|--|---------------------------------------|--|
| Line Brg : 52.308 ° | | | | LINE LOGS | | JULIAN DAY: 112 | | COLUMBIA UNIVERSITY EARTH INSTITUTE | |
| CLIENT: Deborah Hutchinson - USGS | | | | SURVEY: ECS 2D Seismic Mission | | AREA: Eastern North America Margin between lat's 30N-42N | | | |
| DC SOL : 2.3m | | DEPTH SOL : 4933.6 m | | NAVIGATION SYSTEM USED: C-Nav3050 - Primary | | | | | |
| DC EOL : -516.0m | | DEPTH EOL : 4777.2 m | | NAVIGATION SYSTEM USED: SeaPath 200 | | | | | |
| BSP SOL: 4.1 kts | | FEATHER SOL: -40.1 ° | | NAVIGATION SYSTEM USED: POSMV | | | | | |
| BSP EOL: 3.6 kts | | FEATHER EOL: 10.5 ° | | GRAVITY METER: BMG-II: used, SN223 | | | | | |
| WEATHER | | MAX FEATHER: -40.1 ° | | MAGNETOMETER: GeoMetrics: used | | | | | |
| WIND SOL: N 13 kts | | WIND EOL: S 20 kts | | shift hours | | shift leaders | | shift hours | |
| SEAS SOL: 1.0 m | | 16:00 - 04:00 utc => | | Alan Thompson | | 16:00 - 04:00 utc => | | Gilles Guerin | |
| SEAS EOL: S 20 | | 04:00 - 16:00 utc => | | Mike Martello | | 04:00 - 16:00 utc => | | Klayton Curtis | |
| SP | UTC | EVENT | COMMENTS | | | | | | |
| 48007 | 10:56 | SOL | start of 2D acquisition 50m shot spacing, 8km streamer powered up (2 ms sample rate) | | | | | | |
| | | | sol vol: 6560 cu in, guns 36 using arrays 1, 2, 3, and 4. | | | | | | |
| 48510 | 14:43 | XBT | T11 seq 66 | | | | | | |
| 48523 | 14:49 | XBT | T11 seq 67 | | | | | | |
| 48538 | 14:56 | XBT | T11 seq 68 | | | | | | |
| 48556 | 15:05 | XBT | T11 seq 69 | | | | | | |
| 48614 | 15:35 | XBT | T5 seq 70 | | | | | | |
| 48658 | 16:03 | Streamer | Pulling in streamer slightly to adjust tow point | | | | | | |
| 48721 | 16:43 | Streamer | streamer redeployed | | | | | | |
| 49749 | 00:02 | XBT | T5 Seq 71 | | | | | | |
| 49840 | 00:39 | SOTurn | Begin turn to line MCS14 | | | | | | |
| 49875 | 00:55 | EOL | | | | | | | |
| VESSEL POSITION | | | Shotpoints | Latitude (N / +) | Longitude (W / -) | | | | |
| | FSP | 48007 | | 35° 33' 16.622" | -068° 44' 01.485" | | | | |
| | LSP | 49875 | | 36° 04' 12.732" | -067° 55' 00.461" | | | | |
| NAVIGATION OFFSET APPLIED | | | | | | | | | |
| | NRP - Stern | | | 29.5m | | | | | |
| | NRP - COS | | | 205.0m | | | | | |
| | NRP - CNG | | | 523.50m | | | | | |
| | COS - CNG | | | 318.50m | | | | | |
| | NRP - CMP | | | 364.25m | | | | | |
| Posnet locations & remarks: good - none - intermittent | | | | acoustics | | MGL1506_v2.LMN | | | |
| Tailbuoy #1 | Intermittent | Gun string #1 | GOOD | OPERATIONAL | | mgl1502.RTCN | | | |
| Tailbuoy #2 | none | Gun string #2 | GOOD | | | SP spacing: 50.0m | | | |
| Tailbuoy #3 | none | Gun string #3 | GOOD | | | line status: Complete | | | |
| Tailbuoy #4 | none | Gun string #4 | none | | | | | | |

| Seq# 014 | | Line Name: MGL1506MCS14 | NAVIGATION | DATE: 2015-04-23 | Lamont-Doherty Earth Observatory |
|--|-----------------------------|---|--|---|--|
| | | Line Brg : 335.653 ° | LINE LOGS | JULIAN DAY: 113 | COLUMBIA UNIVERSITY EARTH INSTITUTE |
| CLIENT: Deborah Hutchinson - USGS | | SURVEY: ECS 2D Seismic Mission | | AREA: Eastern North America Margin between lat's 30N-42N | |
| DC SOL : -260.0m | DEPTH SOL : 4795.3 m | NAVIGATION SYSTEM USED: C-Nav3050 - Primary | | | |
| DC EOL : 2369.4m | DEPTH EOL : 4766.0 m | NAVIGATION SYSTEM USED: SeaPath 200 | | | |
| BSP SOL: 3.6 kts | FEATHER SOL: -66.5 ° turn ° | NAVIGATION SYSTEM USED: POSMV | | | |
| BSP EOL: 7.7 kts | FEATHER EOL: 36.1 ° | GRAVITY METER: BMG-II: used, SN223 | | | |
| WEATHER | MAX FEATHER: -66.5 ° | MAGNETOMETER: GeoMetrics: used | | | |
| WIND SOL: S 20 kts | | | | | |
| WIND EOL: NNW 30 kts | shift hours | shift leaders | shift hours | watch personnel | watch personnel |
| SEAS SOL: 1.0 m | 16:00 - 04:00 utc => | Alan Thompson | 16:00 - 04:00 utc => | Gilles Guerin | |
| SEAS EOL: 1.5 m | 04:00 - 16:00 utc => | Mike Martello | 04:00 - 16:00 utc => | Klayton Curtis | |
| SP | UTC | EVENT | COMMENTS | | |
| 49909 | 00:57 | SOL | start of 2D acquisition 50m shot spacing, 8km streamer powered up (2 ms sample rate) | | |
| | | | sol vol: 6560 cu in, guns 36 using arrays 1, 2, 3, and 4. | | |
| 50077 | 02:27 | BIST | EM122 disabled to run BIST, no center beam depths | | |
| 50089 | 02:34 | BIST | BIST passed, return to pinging | | |
| 50169 | 03:16 | XBT | XBT-T4 Seq 72 | | |
| 50624 | 06:49 | XBT | XBT-T11 Seq 73 | | |
| 50843 | 08:39 | XBT | XBT-T4 Seq 74 | | |
| 50892 | 09:05 | XBT | XBT-T4 Seq 75 | | |
| 50911 | 09:16 | feather | feather greater than 20degrees port | | |
| 50976 | 09:54 | XBT | XBT-T5 Seq 76 | | |
| 51199 | 12:07 | feather | feather less than 20degrees port | | |
| 51960 | 18:46 | Feather | feather greater than 20 degrees starboard | | |
| 52003 | 19:09 | XBT | XBT-T4 Seq 77 | | |
| 52115 | 20:06 | XBT | XBT-T5 Seq 78 | | |
| 52166 | 20:29 | feather | feather less than 20degrees | | |
| 52170 | 20:30 | autofire | gun 2-1 began autofiring gun string 2 disabled (firing 5090 cu in) | | |
| 52224 | 20:55 | airguns | gun string 2 onboard | | |
| 52349 | 21:50 | Feather | feather greater than 20 degrees starboard | | |
| 52385 | 22:07 | airguns | gun string 2 back in position and firing (6560 cu in) | | |
| 52472 | 22:56 | Feather | feather greater than 40 degrees starboard | | |
| 52579 | 00:00 | Midnight | | | |
| 52589 | 00:05 | SOTurn | beginning turn to MCS15 | | |
| 52650 | 00:29 | EOL | | | |
| Posnet locations & remarks: good - none - intermittent | | acoustics | | MGL1506_v2.LMN | mgl1502.RTCN |
| Tailbuoy #1 | intermittent | Gun string #1 | GOOD | OPERATIONAL | SP spacing: 50.0m |
| Tailbuoy #2 | none | Gun string #2 | GOOD | | |
| Tailbuoy #3 | none | Gun string #3 | GOOD | | |
| Tailbuoy #4 | none | Gun string #4 | none | | |
| | | | | line status: | Complete |

Line Name: MGL1506MCS15 **NAVIGATION** DATE: 2015-04-24
 Seq# 015 Line Brg : 67.647 ° **LINE LOGS** JULIAN DAY: 114

| | | | | | |
|-----------------------------------|----------------------------------|---|----------------------|--|-----------------|
| CLIENT: Deborah Hutchinson - USGS | | SURVEY: ECS 2D Seismic Mission | | AREA: Eastern North America Margin between lat's 30N-42N | |
| DC SOL : 435.1m | DEPTH SOL : 4763.1 m | NAVIGATION SYSTEM USED: C-Nav3050 - Primary | | | |
| DC EOL : 532.9m | DEPTH EOL : 4756.7 m | NAVIGATION SYSTEM USED: SeaPath 200 | | | |
| BSP SOL: 8.1 kts | FEATHER SOL: 127.2 ° turn ° | NAVIGATION SYSTEM USED: POSMV | | | |
| BSP EOL: 5.5 kts | FEATHER EOL: -15.3 ° | GRAVITY METER: BMG-II: used, SN223 | | | |
| WEATHER | MAX FEATHER: -15.3 ° | MAGNETOMETER: GeoMetrics: used | | | |
| WIND SOL: NNW 30 kts | | | | | |
| WIND EOL: NW 12 kts | shift hours | shift leaders | shift hours | watch personnel | watch personnel |
| SEAS SOL: 1.5 m | 16:00 - 04:00 utc => | Alan Thompson | 16:00 - 04:00 utc => | Gilles Guerin | |
| SEAS EOL: 2.0 m | 04:00 - 16:00 utc => | Mike Martello | 04:00 - 16:00 utc => | Klayton Curtis | |

| SP | UTC | EVENT | COMMENTS | VESSEL POSITION | | | | | | | | | | | | | | | |
|---------------------------|---------|---------|---|---|----------------|-----------------|-------------------|---------------------------|--|-------------|-------|-----------|--------|-----------|---------|-----------|---------|-----------|---------|
| | | | | Shotpoints | Latitude (N/+) | Longitude (W/-) | | | | | | | | | | | | | |
| 52752 | 00:31 | SOL | start of 2D acquisition 50m shot spacing, 8km streamer powered up (2 ms sample rate) sol vol: 6560 cu in, guns 36 using arrays 1, 2, 3, and 4. | FSP | 52752 | 37° 12' 32.645" | -068° 31' 23.045" | | | | | | | | | | | | |
| 52830 | 00:47 | syntrak | stop recording on syntrak to shorten record length d/t strong current pushing | LSP | 54092 | 37° 26' 08.125" | -067° 49' 20.609" | | | | | | | | | | | | |
| 52836 | 00:48 | syntrak | first recorded shot at 9.5second record length | <table border="1"> <thead> <tr> <th colspan="2">NAVIGATION OFFSET APPLIED</th> </tr> </thead> <tbody> <tr> <td>NRP - Stern</td> <td>29.5m</td> </tr> <tr> <td>NRP - COS</td> <td>205.0m</td> </tr> <tr> <td>NRP - CNG</td> <td>523.50m</td> </tr> <tr> <td>COS - CNG</td> <td>318.50m</td> </tr> <tr> <td>NRP - CMP</td> <td>364.25m</td> </tr> </tbody> </table> | | | | NAVIGATION OFFSET APPLIED | | NRP - Stern | 29.5m | NRP - COS | 205.0m | NRP - CNG | 523.50m | COS - CNG | 318.50m | NRP - CMP | 364.25m |
| NAVIGATION OFFSET APPLIED | | | | | | | | | | | | | | | | | | | |
| NRP - Stern | 29.5m | | | | | | | | | | | | | | | | | | |
| NRP - COS | 205.0m | | | | | | | | | | | | | | | | | | |
| NRP - CNG | 523.50m | | | | | | | | | | | | | | | | | | |
| COS - CNG | 318.50m | | | | | | | | | | | | | | | | | | |
| NRP - CMP | 364.25m | | | | | | | | | | | | | | | | | | |
| 53735 | 04:06 | XBT | T4 seq80 | | | | | | | | | | | | | | | | |
| 53977 | 05:04 | syntrak | last record length of 9.5sec | | | | | | | | | | | | | | | | |
| 53982 | 05:05 | syntrak | first record length of 14.0sec | | | | | | | | | | | | | | | | |
| 54092 | 05:35 | EOL | | | | | | | | | | | | | | | | | |
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|--|--------------|---------------|------|-------------|----------------|--------------|
| Posnet locations & remarks: good - none - intermittent | | | | acoustics | MGL1506_v2.LMN | mgl1502.RTCN |
| Tailbuoy #1 | intermittent | Gun string #1 | GOOD | OPERATIONAL | SP spacing: | 50.0m |
| Tailbuoy #2 | none | Gun string #2 | GOOD | | | |
| Tailbuoy #3 | none | Gun string #3 | GOOD | | | |
| Tailbuoy #4 | none | Gun string #4 | none | | | |
| line status: | | | | | Complete | |

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|--|-------|--------------------------------|--|---|--|------------------------|--|--|--|-----------------|--|
| Seq# 016 | | Line Name: MGL1506MCS16 | | NAVIGATION | | DATE: 2015-04-24 | | Lamont-Doherty Earth Observatory | | | |
| | | Line Brg : 161.129 ° | | LINE LOGS | | JULIAN DAY: 114 | | COLUMBIA UNIVERSITY EARTH INSTITUTE | | | |
| CLIENT: Deborah Hutchinson - USGS | | | | SURVEY: ECS 2D Seismic Mission | | | | AREA: Eastern North America Margin between lat's 30N-42N | | | |
| DC SOL : 1503.0m | | DEPTH SOL : 4758.7 m | | NAVIGATION SYSTEM USED: C-Nav3050 - Primary | | | | | | | |
| DC EOL : -639.7m | | DEPTH EOL : 4989.0 m | | NAVIGATION SYSTEM USED: SeaPath 200 | | | | | | | |
| BSP SOL: 5.4 kts | | FEATHER SOL: 76.7 ° | | NAVIGATION SYSTEM USED: POSMV | | | | | | | |
| BSP EOL: 4.9 kts | | FEATHER EOL: 01.2 ° | | GRAVITY METER: BMG-II: used, SN223 | | | | | | | |
| WEATHER | | MAX FEATHER: -35.3 ° | | MAGNETOMETER: GeoMetrics: used | | | | | | | |
| WIND SOL: NW 12 kts | | WIND EOL: NNW 28 kts | | SEAS SOL: 2.0 m | | SEAS EOL: 2 - 3m | | | | | |
| | | shift hours | | shift leaders | | shift hours | | watch personnel | | | |
| | | 16:00 – 04:00 utc => | | Alan Thompson | | 16:00 – 04:00 utc => | | Gilles Guerin | | | |
| | | 04:00 – 16:00 utc => | | Mike Martello | | 04:00 – 16:00 utc => | | Klayton Curtis | | | |
| COMMENTS | | | | | | | | | | | |
| SP | UTC | EVENT | COMMENTS | | | | | | | | |
| 54212 | 05:38 | SOL | start of 2D acquisition 50m shot spacing, 8km streamer powered up (2 ms sample rate) | | | | | | | | |
| | | | sol vol: 6560 cu in, guns 36 using arrays 1, 2, 3, and 4. | | | | | | | | |
| | | | end of turn | | | | | | | | |
| | 06:05 | turn | | | | | | | | | |
| | 06:05 | XBT | T5 seq81 | | | | | | | | |
| 54265 | 06:05 | XBT | T5 seq81 | | | | | | | | |
| 54656 | 09:51 | feather | feather now less than 20 degrees port | | | | | | | | |
| | 09:52 | maggie | shut down - crossed over gun umbilicals | | | | | | | | |
| 54688 | 10:08 | XBT | T4 seq82 | | | | | | | | |
| 54691 | 10:10 | streamer | lowering streamer to 12m | | | | | | | | |
| | 10:27 | maggie | on board | | | | | | | | |
| 54828 | 11:09 | feather | feather now greater than 20 degrees port | | | | | | | | |
| 55023 | 12:30 | feather | feather now less than 20 degrees port | | | | | | | | |
| 55289 | 14:11 | EM122 | stopped EM122 to run Bist | | | | | | | | |
| 55310 | 14:19 | EM122 | First sp after Bist - Passed | | | | | | | | |
| 55345 | 14:32 | XBT | T5 Seq 83 | | | | | | | | |
| 55357 | 14:37 | XBT | T5 Seq 84 | | | | | | | | |
| 56189 | 19:40 | XBT | T5 Seq 85 | | | | | | | | |
| 56299 | 20:21 | XBT | T11 Seq 86 | | | | | | | | |
| 56388 | 20:53 | XBT | T11 Seq 87 | | | | | | | | |
| 56897 | 00:00 | Midnight | | | | | | | | | |
| 57267 | 02:28 | XBT | T4 Seq 88 | | | | | | | | |
| | 04:10 | pam | pick up pam d/t weather and turn | | | | | | | | |
| | 04:19 | pam | pam secured | | | | | | | | |
| | 04:25 | turn | start of turn to next line | | | | | | | | |
| 57611 | 04:37 | EOL | | | | | | | | | |
| Posnet locations & remarks: good - none - intermittent | | | | | | | | | | | |
| Tailbuoy #1 Intermittent Gun string #1 GOOD | | | | acoustics OPERATIONAL | | | | MGL1506_v2.LMN | | mgl1502.RTCN | |
| Tailbuoy #2 none Gun string #2 GOOD | | | | | | | | SP spacing: 50.0m | | | |
| Tailbuoy #3 none Gun string #3 GOOD | | | | | | | | | | | |
| Tailbuoy #4 none Gun string #4 none | | | | | | | | line status: | | Complete | |

| Seq# 017 | | Line Name: MGL1506MCS17 | | NAVIGATION | | DATE: 2015-04-25 Lamont-Doherty Earth Observatory | | | | | | | | | | | | | | | | | |
|---|------------------|--------------------------------|--------------|--|--|--|--|---------------------------|--|-------------|-------|------------|------------------|-------------------|---------|-----------|-----------------|-------------------|---------|-----------|-----------------|-------------------|--|
| | | Line Brg : 71.896 ° | | LINE LOGS | | JULIAN DAY: 115 COLUMBIA UNIVERSITY EARTH INSTITUTE | | | | | | | | | | | | | | | | | |
| CLIENT: Deborah Hutchinson - USGS | | | | SURVEY: ECS 2D Seismic Mission | | AREA: Eastern North America Margin between lat's 30N-42N | | | | | | | | | | | | | | | | | |
| DC SOL : -549.8m | | DEPTH SOL : 5000.7 m | | NAVIGATION SYSTEM USED: C-Nav3050 - Primary | | | | | | | | | | | | | | | | | | | |
| DC EOL : -407.4m | | DEPTH EOL : 5293.3 m | | NAVIGATION SYSTEM USED: SeaPath 200 | | | | | | | | | | | | | | | | | | | |
| BSP SOL: 4.7 kts | | FEATHER SOL: -89.1 ° | | NAVIGATION SYSTEM USED: POSMV | | | | | | | | | | | | | | | | | | | |
| BSP EOL: 2.9 kts | | FEATHER EOL: -02.5 ° | | GRAVITY METER: BMG-II: used, SN223 | | | | | | | | | | | | | | | | | | | |
| WEATHER | | MAX FEATHER: -15.0 ° | | MAGNETOMETER: GeoMetrics: used | | | | | | | | | | | | | | | | | | | |
| WIND SOL: NNW 28 kts | | | | | | | | | | | | | | | | | | | | | | | |
| WIND EOL: NW 30 kts | | shift hours | | shift leaders | | shift hours | | | | | | | | | | | | | | | | | |
| SEAS SOL: 2 - 3m | | 16:00 - 04:00 utc => | | Alan Thompson | | 16:00 - 04:00 utc => | | | | | | | | | | | | | | | | | |
| SEAS EOL: 4.0 m | | 04:00 - 16:00 utc => | | Mike Martello | | 04:00 - 16:00 utc => | | | | | | | | | | | | | | | | | |
| | | | | watch personnel | | Gilles Guerin | | | | | | | | | | | | | | | | | |
| | | | | watch personnel | | Klayton Curtis | | | | | | | | | | | | | | | | | |
| SP | | UTC | | EVENT | | COMMENTS | | | | | | | | | | | | | | | | | |
| 58014 | 04:40 | SOL | | start of 2D acquisition 50m shot spacing, 8km streamer powered up (2 ms sample rate) | | | | | | | | | | | | | | | | | | | |
| | | | | sol vol: 6520 cu in, guns 36 using arrays 1, 2, 3, and 4. | | | | | | | | | | | | | | | | | | | |
| 58775 | 09:31 | XBT | | T11 seq89 | | | | | | | | | | | | | | | | | | | |
| 58897 | 10:26 | XBT | | T11 seq90 | | | | | | | | | | | | | | | | | | | |
| 58918 | 10:36 | XBT | | T5 seq91 | | | | | | | | | | | | | | | | | | | |
| 58956 | 10:55 | rgps | | G1R3 intermittent | | | | | | | | | | | | | | | | | | | |
| 59704 | 11:59 | XBT | | T11 seq92 | | | | | | | | | | | | | | | | | | | |
| | 12:02 | turn | | start turn port to next line | | | | | | | | | | | | | | | | | | | |
| 59109 | 12:19 | EOL | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="4">VESSEL POSITION</th> </tr> <tr> <th>Shotpoints</th> <th>Latitude (N / +)</th> <th colspan="2">Longitude (W / -)</th> </tr> </thead> <tbody> <tr> <td>FSP 58014</td> <td>35° 59' 21.498"</td> <td colspan="2">-067° 10' 53.617"</td> </tr> <tr> <td>LSP 59109</td> <td>36° 08' 23.934"</td> <td colspan="2">-066° 36' 10.270"</td> </tr> </tbody> </table> | | | | | | | | VESSEL POSITION | | | | Shotpoints | Latitude (N / +) | Longitude (W / -) | | FSP 58014 | 35° 59' 21.498" | -067° 10' 53.617" | | LSP 59109 | 36° 08' 23.934" | -066° 36' 10.270" | |
| VESSEL POSITION | | | | | | | | | | | | | | | | | | | | | | | |
| Shotpoints | Latitude (N / +) | Longitude (W / -) | | | | | | | | | | | | | | | | | | | | | |
| FSP 58014 | 35° 59' 21.498" | -067° 10' 53.617" | | | | | | | | | | | | | | | | | | | | | |
| LSP 59109 | 36° 08' 23.934" | -066° 36' 10.270" | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="2">NAVIGATION OFFSET APPLIED</th> </tr> </thead> <tbody> <tr> <td>NRP - Stern</td> <td>29.5m</td> </tr> <tr> <td>NRP - COS</td> <td>205.0m</td> </tr> <tr> <td>NRP - CNG</td> <td>523.50m</td> </tr> <tr> <td>COS - CNG</td> <td>318.50m</td> </tr> <tr> <td>NRP - CMP</td> <td>364.25m</td> </tr> </tbody> </table> | | | | | | | | NAVIGATION OFFSET APPLIED | | NRP - Stern | 29.5m | NRP - COS | 205.0m | NRP - CNG | 523.50m | COS - CNG | 318.50m | NRP - CMP | 364.25m | | | | |
| NAVIGATION OFFSET APPLIED | | | | | | | | | | | | | | | | | | | | | | | |
| NRP - Stern | 29.5m | | | | | | | | | | | | | | | | | | | | | | |
| NRP - COS | 205.0m | | | | | | | | | | | | | | | | | | | | | | |
| NRP - CNG | 523.50m | | | | | | | | | | | | | | | | | | | | | | |
| COS - CNG | 318.50m | | | | | | | | | | | | | | | | | | | | | | |
| NRP - CMP | 364.25m | | | | | | | | | | | | | | | | | | | | | | |
| Posnet locations & remarks: good - none - intermittent | | | | acoustics | | MGL1506_v2.LMN | | | | | | | | | | | | | | | | | |
| Tailbuoy #1 | Intermittent | Gun string #1 | GOOD | OPERATIONAL | | mgl1502.RTCN | | | | | | | | | | | | | | | | | |
| Tailbuoy #2 | none | Gun string #2 | GOOD | | | SP spacing: 50.0m | | | | | | | | | | | | | | | | | |
| Tailbuoy #3 | none | Gun string #3 | Intermittent | | | line status: Complete | | | | | | | | | | | | | | | | | |
| Tailbuoy #4 | none | Gun string #4 | none | | | | | | | | | | | | | | | | | | | | |

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|---|--------------|---------------------------------------|--|---|---------------------------------------|----------------------------------|
| Seq# 018 | | Line Name: MGL1506MCS18 | NAVIGATION | DATE: 2015-04-25 | Lamont-Doherty Earth Observatory | |
| | | Line Brg : 344.016 ° | LINE LOGS | JULIAN DAY: 115 | COLUMBIA UNIVERSITY EARTH INSTITUTE | |
| CLIENT: Deborah Hutchinson - USGS | | SURVEY: ECS 2D Seismic Mission | | AREA: Eastern North America Margin between lat's 30N-42N | | |
| DC SOL : -773.7m | | DEPTH SOL : 5048.8 m | | NAVIGATION SYSTEM USED: C-Nav3050 - Primary | | |
| DC EOL : 33.6m | | DEPTH EOL : 4806.9 m | | NAVIGATION SYSTEM USED: SeaPath 200 | | |
| BSP SOL: 3.0 kts | | FEATHER SOL: -91.8 ° turn ° | | NAVIGATION SYSTEM USED: POSMW | | |
| BSP EOL: 4.9 kts | | FEATHER EOL: 20.7 ° | | GRAVITY METER: BMG-II: used, SN223 | | |
| WEATHER | | MAX FEATHER: 46.4 ° | | MAGNETOMETER: GeoMetrics: used | | |
| WIND SOL: NW 30 kts | | | | | | |
| WIND EOL: E 15 kts | | shift hours | shift leaders | shift hours | watch personnel | shift hours |
| SEAS SOL: 4.0 m | | 16:00 - 04:00 utc => | Alan Thompson | 16:00 - 04:00 utc => | Gilles Guerin | |
| SEAS EOL: 1.0 m | | 04:00 - 16:00 utc => | Mike Martello | 04:00 - 16:00 utc => | Klayton Curtis | |
| COMMENTS | | | | | | |
| SP | UTC | EVENT | | | | VESSEL POSITION |
| 60008 | 12:23 | SOL | start of 2D acquisition 50m shot spacing, 8km streamer powered up (2 ms sample rate) | | | |
| | | | sol vol: 6520 cu in, guns 36 using arrays 1, 2, 3, and 4. | | | |
| 60101 | 13:03 | XBT | T11 Seq 93 | | | Shotpoints |
| 60471 | 15:26 | feather | now less than 20deg. Port | | | FSP |
| 60558 | 15:56 | Airguns | Disabled array 2 for retrieval d/t bad weather - 4910 cu in. 27 guns firing | | | 60008 |
| 60696 | 16:46 | Airguns | Disabled array 1 for retrieval d/t bad weather - 3480 cu in. 19 guns firing | | | 36° 08' 33.462" |
| 60785 | 17:16 | Airguns | Disabled array 3 for retrieval d/t bad weather - 1830 cu in. 10 guns firing | | | -066° 36' 02.428" |
| 61547 | 21:41 | XBT | T5 Seq 94 | | | LSP |
| 61823 | 23:18 | BIST | EM122 disabled for BIST | | | 63896 |
| 61845 | 23:26 | BIST | EM122 re-enabled BIST passed | | | 37 49 37.508 |
| 61942 | 00:00 | Midnight | | | | -067° 12' 00.257" |
| 62102 | 00:57 | XBT | T11 Seq 95 | | | NAVIGATION OFFSET APPLIED |
| 62123 | 01:06 | XBT | T11 Seq 96 | | | NRP - Stern |
| 62276 | 02:21 | Airguns | array 1 deployed, firing | | | 29.5m |
| 62335 | 02:51 | Airguns | array 2 deployed, firing | | | NRP - COS |
| 62398 | 03:23 | Airguns | array 3 deployed, firing (vol6600cu in 36guns firing) | | | 205.0m |
| | 03:42 | maggie | Redeploying maggie | | | NRP - CNG |
| 62451 | 03:50 | maggie | Maggie in place and operational | | | 523.50m |
| | 03:52 | pam | start deploying Pam | | | COS - CNG |
| | 04:07 | pam | Pam in place | | | 318.50m |
| 62500 | 04:15 | tow point | bring streamer in to attach second tow point to lead-in | | | NRP - CMP |
| 62532 | 4:31 | tow point | streamer in place | | | 364.25m |
| 63657 | 11:25 | XBT | T5 Seq 97 | | | |
| 63865 | 12:28 | LGSP | last good shot point d/t loss of compressors | | | |
| 63896 | 12:38 | EOL | | | | |
| Posnet locations & remarks: good - none - intermittent | | acoustics | | MGL1506_v2.LMN | | |
| Tailbuoy #1 | Intermittent | Gun string #1 | GOOD | mg1502.RTCN | | |
| Tailbuoy #2 | none | Gun string #2 | GOOD | SP spacing: 50.0m | | |
| Tailbuoy #3 | none | Gun string #3 | Intermittent | line status: | | |
| Tailbuoy #4 | none | Gun string #4 | none | Incomplete | | |

| | | | | | | | | | | |
|---|--------------|---------------------------------|--|---|----------------|---|--|---------------------------------------|----------------------------------|-------------------|
| Seq# 019 | | Line Name: MGL1506MCS18A | | NAVIGATION | | DATE: 2015-04-26 | | Lamont-Doherty Earth Observatory | | |
| | | Line Brg : 344.016 ° | | LINE LOGS | | JULIAN DAY: 116 | | COLUMBIA UNIVERSITY EARTH INSTITUTE | | |
| CLIENT: Deborah Hutchinson - USGS | | | SURVEY: ECS 2D Seismic Mission | | | AREA: Eastern North America Margin between lat's 30N-42N | | | | |
| DC SOL : 123.6m | | DEPTH SOL : 4994.5 m | | NAVIGATION SYSTEM USED: C-Nav3050 - Primary | | | | | | |
| DC EOL : 1778.0m | | DEPTH EOL : 4740.4 m | | NAVIGATION SYSTEM USED: SeaPath 200 | | | | | | |
| BSP SOL: 4.5 kts | | FEATHER SOL: 39.1 ° | | NAVIGATION SYSTEM USED: POSMW | | | | | | |
| BSP EOL: 7.7 kts | | FEATHER EOL: 34.6 ° | | GRAVITY METER: BMG-II: used, SN223 | | | | | | |
| WEATHER | | MAX FEATHER: 39.1 ° | | MAGNETOMETER: GeoMetrics: used | | | | | | |
| WIND SOL: E 15 kts | | | | | | | | | | |
| WIND EOL: E 15 kts | | shift hours | | shift leaders | | shift hours | | watch personnel | | |
| SEAS SOL: 1.0 m | | 16:00 - 04:00 utc => | | Alan Thompson | | 16:00 - 04:00 utc => | | Gilles Guerin | | |
| SEAS EOL: 1.0 m | | 04:00 - 16:00 utc => | | Mike Martello | | 04:00 - 16:00 utc => | | Klayton Curtis | | |
| | | | COMMENTS | | | | | | | |
| SP | UTC | EVENT | | | | | | | VESSEL POSITION | |
| 64100 | 13:56 | SOL | start of 2D acquisition 50m shot spacing, 8km streamer powered up (2 ms sample rate) | | | | | | Shotpoints | |
| | | | sol vol: 6600 cu in, guns 36 using arrays 1, 2, 3, and 4. | | | | | | FSP | 64100 |
| 64174 | 14:18 | EOL | | | | | | | | 64174 |
| | | | | | | | | | | 37° 57' 05.977" |
| | | | | | | | | | | -067° 13' 31.962" |
| | | | | | | | | | NAVIGATION OFFSET APPLIED | |
| | | | | | | | | | NRP - Stern | 29.5m |
| | | | | | | | | | NRP - COS | 205.0m |
| | | | | | | | | | NRP - CNG | 523.50m |
| | | | | | | | | | COS - CNG | 318.50m |
| | | | | | | | | | NRP - CMP | 364.25m |
| Posnet locations & remarks: good - none - intermittent | | | acoustics | | MGL1506_v2.LMN | | | | | mgl1502.RTCN |
| Tailbuoy #1 | Intermittent | Gun string #1 | GOOD | OPERATIONAL | | | | | | |
| Tailbuoy #2 | none | Gun string #2 | GOOD | | | | | | | |
| Tailbuoy #3 | none | Gun string #3 | none | | | | | | | |
| Tailbuoy #4 | none | Gun string #4 | none | | | | | | | |
| | | | | SP spacing: 50.0m | | line status: Complete | | | | |

| | | | | | | | | | |
|--|--------------|---------------------------------------|--|---|-----------------|------------------|---|---|--|
| Seq# 020 | | Line Name: MGL1506MCS19 | | NAVIGATION | | DATE: 2015-04-26 | | | |
| | | Line Brg : 60.340 ° | | LINE LOGS | | JULIAN DAY: 116 | | | |
| CLIENT: Deborah Hutchinson - USGS | | SURVEY: ECS 2D Seismic Mission | | AREA: Eastern North America Margin between lat's 30N-42N | | | | | |
| DC SOL : -264.3m | | DEPTH SOL : 4737.5 m | | NAVIGATION SYSTEM USED: C-Nav3050 - Primary | | | | | |
| DC EOL : 2233.4m | | DEPTH EOL : 4666.0 m | | NAVIGATION SYSTEM USED: SeaPath 200 | | | | | |
| BSP SOL: 8.1 kts | | FEATHER SOL: 109.9 ° | turn ° | NAVIGATION SYSTEM USED: POSMV | | | | | |
| BSP EOL: 8.1 kts | | FEATHER EOL: 18.2 ° | | GRAVITY METER: BMG-II: used, SN223 | | | | | |
| WEATHER | | MAX FEATHER: 109.9 ° | | MAGNETOMETER: GeoMetrics: used | | | | | |
| WIND SOL: E 15 kts | | | | | | | | | |
| WIND EOL: NE 14 kts | | shift hours | shift leaders | shift hours | watch personnel | shift hours | watch personnel | | |
| SEAS SOL: 1.0 m | | 16:00 – 04:00 utc => | Alan Thompson | 16:00 – 04:00 utc => | Gilles Guerin | | | | |
| SEAS EOL: 1.0 m | | 04:00 – 16:00 utc => | Mike Martello | 04:00 – 16:00 utc => | Klayton Curtis | | | | |
| SP | UTC | EVENT | COMMENTS | | | | VESSEL POSITION | | |
| 64542 | 14:20 | SOL | start of 2D acquisition 50m shot spacing, 8km streamer powered up (2 ms sample rate) | | | | Shotpoints Latitude (N / +) Longitude (W / -) | | |
| | | | sol vol: 6600 cu in, guns 36 using arrays 1, 2, 3, and 4. | | | | FSP | 64542 37° 57' 24.211" -067° 13' 21.459" | |
| 65521 | 18:01 | power down | LSP full volume, power down d/t dolphin sighting | | | | LSP | 66470 38° 21' 43.508" -066° 14' 57.952" | |
| 65524 | 18:01 | Sighting | FSP mitigation gun (65522-65523 no shots fired) | | | | | | |
| 65583 | 18:16 | Sighting | LSP mitigation gun | | | | | | |
| 65587 | 18:17 | Full power | FSP full volume (guns off 65584-65586 to change configuration) | | | | | | |
| 66060 | 20:10 | XBT | T4 Seq 98 | | | | | | |
| 66372 | 21:27 | SOTurn | Begin turning to line MCS20 | | | | | | |
| 66470 | 21:51 | EOL | | | | | NAVIGATION OFFSET APPLIED | | |
| | | | | | | | NRP - Stern | 29.5m | |
| | | | | | | | NRP - COS | 205.0m | |
| | | | | | | | NRP - CNG | 523.50m | |
| | | | | | | | COS - CNG | 318.50m | |
| | | | | | | | NRP - CMP | 364.25m | |
| Posnet locations & remarks: good - none - intermittent | | | | acoustics | | | | MGL1506_v2.LMN mgl1502.RTCN | |
| Tailbuoy #1 | Intermittent | Gun string #1 | GOOD | OPERATIONAL | | | | SP spacing: 50.0m | |
| Tailbuoy #2 | none | Gun string #2 | GOOD | | | | | | |
| Tailbuoy #3 | none | Gun string #3 | none | | | | | | |
| Tailbuoy #4 | none | Gun string #4 | none | | | | | | |
| | | | | line status: | | Complete | | | |

| | | | | | | |
|--|----------------------|---|--|---|--|-------------------|
| Seq# 021 | | Line Name: MGL1506MCS20 | NAVIGATION | DATE: 2015-04-26 | Lamont-Doherty Earth Observatory | |
| | | Line Brg : 169.253 ° | LINE LOGS | JULIAN DAY: 116 | COLUMBIA UNIVERSITY EARTH INSTITUTE | |
| CLIENT: Deborah Hutchinson - USGS | | SURVEY: ECS 2D Seismic Mission | | AREA: Eastern North America Margin between lat's 30N-42N | | |
| DC SOL : 475.9m | DEPTH SOL : 4669.4 m | NAVIGATION SYSTEM USED: C-Nav3050 - Primary | | | | |
| DC EOL : 599.3m | DEPTH EOL : 5366.9 m | NAVIGATION SYSTEM USED: SeaPath 200 | | | | |
| BSP SOL: 8.1 kts | FEATHER SOL: 122.1 ° | turn ° | NAVIGATION SYSTEM USED: POSMV | | | |
| BSP EOL: 5.0 kts | FEATHER EOL: -21.1 ° | | GRAVITY METER: BMG-II: used, SN223 | | | |
| WEATHER | MAX FEATHER: 68.3 ° | | MAGNETOMETER: GeoMetrics: used | | | |
| WIND SOL: NE 14 kts | | | | | | |
| WIND EOL: NNE 18 kts | shift hours | shift leaders | shift hours | watch personnel | shift hours | watch personnel |
| SEAS SOL: 1.0 m | 16:00 - 04:00 utc => | Alan Thompson | 16:00 - 04:00 utc => | Gilles Guerin | | |
| SEAS EOL: 1-2m | 04:00 - 16:00 utc => | Mike Martello | 04:00 - 16:00 utc => | Klayton Curtis | | |
| COMMENTS | | | | | | |
| SP | UTC | EVENT | VESEL POSITION | | | |
| 66662 | 21:55 | SOL | start of 2D acquisition 50m shot spacing, 8km streamer powered up (2 ms sample rate) | | | |
| | | | sol vol: 6600 cu in, guns 36 using arrays 1, 2, 3, and 4. | | | |
| | | | D/T strong currents turning to line, vessel was pushed 3300m | | | |
| | | | Shotpoints | | | |
| | | | Latitude (N / +) | | | |
| | | | Longitude (W / -) | | | |
| 66918 | 23:29 | XBT | FSP | 66662 | 38° 21' 37.656" | -066° 14' 18.505" |
| 66989 | 00:00 | Midnight | LSP | 69630 | 37° 02' 41.539" | -066° 55' 43.810" |
| 67718 | 03:50 | multibeam | NAVIGATION OFFSET APPLIED | | | |
| 67740 | 03:57 | multibeam | NRP - Stern | | | |
| 67969 | 05:09 | feather | NRP - COS | | | |
| 68052 | 05:36 | offline | NRP - CNG | | | |
| 68947 | 10:24 | currents | COS - CNG | | | |
| 68965 | 10:29 | XBT | NRP - CMP | | | |
| 68975 | 10:33 | XBT | 29.5m | | | |
| 68984 | 10:36 | XBT | 205.0m | | | |
| 68993 | 10:39 | XBT | 523.50m | | | |
| 69105 | 10:46 | XBT | 318.50m | | | |
| | | | 364.25m | | | |
| 68987 | 10:37 | offline | max distance off line -311.3m. | | | |
| 69630 | 13:56 | EOL | | | | |
| Posnet locations & remarks: good - none - intermittent | | | acoustics | | MGL1506_v2.LMN | |
| Tailbuoy #1 | Intermittent | Gun string #1 | GOOD | mg11502.RTCN | | |
| Tailbuoy #2 | none | Gun string #2 | GOOD | OPERATIONAL | | |
| Tailbuoy #3 | none | Gun string #3 | none | SP spacing: 50.0m | | |
| Tailbuoy #4 | none | Gun string #4 | none | line status: Complete | | |

