

| Line Name: LAU_A027 | | NAVIGATION | | DATE: 2009-01-29 | |
|---|---------|---------------------------------------|---------------------------------|--|--------------------|
| Seq# 003 | | LINE LOGS | | JULIAN DAY: 29 | |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | | MGL0812 | |
| DC SOL: -15.0m | | DEPTH SOL: 2783.0m | | NAVIGATION SYSTEM USED: C-Navy - Primary | |
| DC EOL: | | DEPTH EOL: 2283.0 m | | NAVIGATION SYSTEM USED: SeaPath 200 | |
| SMG SOL: 4.7 knots | | FEATHER SOL: 1/2 " | | NAVIGATION SYSTEM USED: Posnet | |
| SMG EOL: 4.7 knots knots | | FEATHER EOL: 1/2 " | | GRAVITY METER: BMG-II | |
| WEATHER | | MAX FEATHER: 1/2 " | | MAGNETOMETER: GeoMetrics: | |
| WIND SOL: 17 knots | | | | MAG DEC USED: 13 | |
| WIND EOL: 17 knots | | | | | |
| SEAS SOL: 1.2m | | 00:00 - 12:00 cat => | | | |
| SEAS EOL: | | 12:00 - 24:00 cat => Jonathan Shepper | | | |
| SP | TIME(L) | EVENT | COMMENTS | VESSEL POSITION | |
| 4029 | 1156 | FGSP | Start of line, first shot point | SP | Latitude (N) |
| 4030 | 1200 | FGSP | First good shot point | 4029 | Longitude (W) |
| 4178 | 1957 | LGSP | End of line, last shot point | FSP | -26° 21' 58.900" |
| | | | | LSP | -26° 31' 58.900" |
| | | | | NAVIGATION OFFSET ADJUSTED | |
| | | | | NIP - CDS | -180 |
| | | | | NIP - CNG | NA |
| | | | | CDS - CNG | NA |
| | | | | NIP - CMP | NA |
| | | | | General remarks: | |
| | | | | S1 GPS KGV1 | |
| | | | | S2 GPS KGV1 | |
| | | | | Acoustic Stinger 1 Bud | |
| | | | | E1 | E2 |
| | | | | Lau_A027_0.p190 | Lau_A028_0.p204 |
| | | | | No Streamer | |
| Final positions & remarks: good - none - comments | | | | Acoustic remarks: | |
| Filetype #1 | n/a | Scan string #1 | good | Linepath: LauPhase1 | PacificRise SCN001 |
| Filetype #2 | n/a | Scan string #2 | bad | | Lary3DRCTN |
| Filetype #3 | n/a | Scan string #3 | good | SP shooting | 450m |
| Filetype #4 | n/a | Scan string #4 | good | line status: | |

Seq Line Name J Day DIR FQSP LGSP SP space comment

Seq# 003 LAU_A027 29 101.5 4030 450m

| Line Name: LAU_A028 | | NAVIGATION | | DATE: 2009-01-29 | | | | |
|--|-----------|----------------------|---------------------------------|---|-----------------|------------------|--|--|
| Line Brg: 281.0 ° | | LINE LOGS | | JULIAN DAY: 29 | | | | |
| CLIENT: National Science Foundation | | | SURVEY: Lau Basin | | | MGL0812 | | |
| DC SOL: -15.0m | | DEPTH SOL: 2271.0 m | | NAVIGATION SYSTEM USED=C-Navy - Primary | | | | |
| DC EOL | | DEPTH EOL: 2268.0 m | | NAVIGATION SYSTEM USED=SeaPath 200 | | | | |
| SMO SOL: 4.7 knots | | FEATHER SOL: 1/3 " | | NAVIGATION SYSTEM USED=Posnet | | | | |
| SMO EOL: 4.7 knots | | FEATHER EOL: 1/3 " | | GRAVITY METER: BMG-II | | | | |
| WEATHER | | MAX FEATHER: 1/3 " | | MAGNETOMETER: GeoMetrics | | | | |
| WIND SOL: 13 knots | | | | MAG DEC USED: 13 | | | | |
| WIND EOL: 17 knots | | | | | | | | |
| SEAS SOL: 6.4 ft | | 00:00 - 12:00 cat == | | | | | | |
| SEAS EOL: | | 12:00 - 24:00 cat == | | Michaela Conley, Olga Hernandez | | | | |
| SP | TIME(LCL) | EVENT | COMMENTS | VESSEL POSITION | | | | |
| 2999 | 0954 | FGSP | Start of line, first shot point | SP | Latitude (N) | Longitude (W) | | |
| 3159 | 2001 | LGSP | First good shot point | 2999 | 20° 25' 57.180" | 175° 49' 59.940" | | |
| | | | End of time, last shot point | LSP | 3159 | 20° 25' 49.790" | | |
| NAVIGATION OFFSET APPLIED | | | | | | | | |
| NIP - COS | | | | -180 | | | | |
| NIP - CNG | | | | NA | | | | |
| COS - CNG | | | | NA | | | | |
| NIP - CMP | | | | NA | | | | |
| General remarks: | | | | | | | | |
| SI GPS K04 | | | | | | | | |
| SI GPS K04 | | | | | | | | |
| Acoustic: String 1 Bud | | | | | | | | |
| EL E2 | | | | | | | | |
| Lau_A027.0.p190 Lau_A028.0.p204 | | | | | | | | |
| No Streamer | | | | | | | | |
| Personal observations & remarks: good, some, no comments | | | | Acoustic remarks: | | | | |
| Line length: LauPhase1 | | Paral(Rise SCHN001) | | Lang3DRCTN | | | | |
| SP spaci03 | | 450m | | | | | | |
| line status: | | | | | | | | |

Seq LAU_A028 29 DIR 281.0 FGSF 4030 LGSP 450m sp space 450m comment

| Line Name: LAU_A026 | | NAVIGATION | | DATE: 2009-01-29 | | | | | | | | | | | | | | | | | | | | | |
|--|---------------------------------|---|---------------------------------|---------------------|-----------------|---------|---------------|-----|---------------|-----|---------------|-----|---------------|------|---------------|-----|---------------|------|---------------|-----|---------------|------|--|--|--|
| Seq# 005 | | LINE LOGS | | JULIAN DAY: 29 | | | | | | | | | | | | | | | | | | | | | |
| CLIENT: National Science Foundation | | | SURVEY: Lau Basin | | | | | | | | | | | | | | | | | | | | | | |
| MGL0812 | | | | | | | | | | | | | | | | | | | | | | | | | |
| DC SOL: 240.0m | DEPTH SOL: 2277.0 m | NAVIGATION SYSTEM USED=C-Navy - Primary | | | | | | | | | | | | | | | | | | | | | | | |
| DC EOL: 330m | DEPTH EOL: 2139.0 m | NAVIGATION SYSTEM USED=SeaPath 200 | | | | | | | | | | | | | | | | | | | | | | | |
| SMO SOL: 4.3 knots | FEATHER SOL: 1/3 " | NAVIGATION SYSTEM USED=Posnet | | | | | | | | | | | | | | | | | | | | | | | |
| SMO EOL: 4.5 knots | FEATHER EOL: 1/3 " | GRAVITY METER: BMG-II | | | | | | | | | | | | | | | | | | | | | | | |
| WEATHER | | MAGNETOMETER: GeoMetrics: | | | | | | | | | | | | | | | | | | | | | | | |
| WIND SOL: 13 knots | MAX FEATHER: 1/3 " | MAG DEC USED : 13 | | | | | | | | | | | | | | | | | | | | | | | |
| WIND EOL: 4 knots | | | | | | | | | | | | | | | | | | | | | | | | | |
| SEAS SOL: 4 ft | 00:00 - 12:00 cat => | | | | | | | | | | | | | | | | | | | | | | | | |
| SEAS EOL: | 12:00 - 24:00 cat => Erica Emry | | | | | | | | | | | | | | | | | | | | | | | | |
| SP | TIME(S) | EVENT | COMMENTS | | | | | | | | | | | | | | | | | | | | | | |
| 5020 | 2210 | FOSP | Start of line, first shot point | | | | | | | | | | | | | | | | | | | | | | |
| 5026 | 2252 | FOSP | First good shot point | | | | | | | | | | | | | | | | | | | | | | |
| 5175 | 2311 | LOSP | End of line, last shot point | | | | | | | | | | | | | | | | | | | | | | |
| | | | VESSEL POSITION | | | | | | | | | | | | | | | | | | | | | | |
| | | | SP | Latitude (N) | Longitude (W) | | | | | | | | | | | | | | | | | | | | |
| | | | FSP | 5020 | 23° 31' 15.000" | | | | | | | | | | | | | | | | | | | | |
| | | | LSP | 5175 | 23° 31' 08.640" | | | | | | | | | | | | | | | | | | | | |
| | | | NAVIGATION OFFSET ADJUSTED | | | | | | | | | | | | | | | | | | | | | | |
| | | | NIP - CDS | | -180 | | | | | | | | | | | | | | | | | | | | |
| | | | NIP - CNO | | N/A | | | | | | | | | | | | | | | | | | | | |
| | | | CDS - CNO | | N/A | | | | | | | | | | | | | | | | | | | | |
| | | | NIP - CWP | | N/A | | | | | | | | | | | | | | | | | | | | |
| | | | General remarks: | | | | | | | | | | | | | | | | | | | | | | |
| | | | S1 GPS KGU | | | | | | | | | | | | | | | | | | | | | | |
| | | | S2 GPS KGU | | | | | | | | | | | | | | | | | | | | | | |
| | | | Acoustic: String 1 Bud | | | | | | | | | | | | | | | | | | | | | | |
| | | | EL E2 | | | | | | | | | | | | | | | | | | | | | | |
| | | | Lau_A026.0.p190 Lau_A026.0.p204 | | | | | | | | | | | | | | | | | | | | | | |
| | | | No Streamer | | | | | | | | | | | | | | | | | | | | | | |
| | | | Length: LauPhase1 | source_bin: SCND001 | Lang:3DRCTN | | | | | | | | | | | | | | | | | | | | |
| | | | SP spac:50 | 450m | | | | | | | | | | | | | | | | | | | | | |
| | | | line status: | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Formal designation & remarks</th> <th>good</th> <th>none</th> <th>comment</th> </tr> </thead> <tbody> <tr> <td>Trajectory #1</td> <td>n/a</td> <td>Sea string #1</td> <td>bad</td> </tr> <tr> <td>Trajectory #2</td> <td>n/a</td> <td>Sea string #2</td> <td>good</td> </tr> <tr> <td>Trajectory #3</td> <td>n/a</td> <td>Sea string #3</td> <td>good</td> </tr> <tr> <td>Trajectory #4</td> <td>n/a</td> <td>Sea string #4</td> <td>good</td> </tr> </tbody> </table> | | | Formal designation & remarks | good | none | comment | Trajectory #1 | n/a | Sea string #1 | bad | Trajectory #2 | n/a | Sea string #2 | good | Trajectory #3 | n/a | Sea string #3 | good | Trajectory #4 | n/a | Sea string #4 | good | | | |
| Formal designation & remarks | good | none | comment | | | | | | | | | | | | | | | | | | | | | | |
| Trajectory #1 | n/a | Sea string #1 | bad | | | | | | | | | | | | | | | | | | | | | | |
| Trajectory #2 | n/a | Sea string #2 | good | | | | | | | | | | | | | | | | | | | | | | |
| Trajectory #3 | n/a | Sea string #3 | good | | | | | | | | | | | | | | | | | | | | | | |
| Trajectory #4 | n/a | Sea string #4 | good | | | | | | | | | | | | | | | | | | | | | | |

Seq: Seq# 005 Line Name: LAU_A026 J Day: 29 DIR: 281 FOSP: 4030 LOSP: 450m sp space: 450m comment:

| Seq# 008 | | Line Name: LAU_A023 | NAVIGATION | DATE: 2009-01-31 |
|---|--------------------|--------------------------------------|---------------------------------|------------------|
| | | Line Brg: 101 ° | LINE LOGS | JULIAN DAY: 31 |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | | MGL0903 |
| DC SOL: _____ | DEPTH SOL: 2167.0m | NAVIGATION SYSTEM USED:CNx - Primary | | |
| DC EOL: _____ | DEPTH EOL: 2338.0m | NAVIGATION SYSTEM USED:SeaPath 200 | | |
| SMG SOL: _____ | FEATHER SOL: 1/3 " | NAVIGATION SYSTEM USED:Posnet | | |
| SMG EOL: _____ | FEATHER EOL: 1/3 " | GRAVITY METER: BMG-II | | |
| WEATHER | MAX FEATHER: 1/3 " | MAGNETOMETER: GeoMetrics | | |
| WIND SOL: 15 kn knots | | | | |
| WIND EOL: _____ | | | | |
| SEAS SOL: 3.5ft | | | | |
| SEAS EOL: _____ | | | | |
| 00:00 - 12:00 cat => | | Ruggen Asotin, Elice Entry | | |
| 12:00 - 24:00 cat => | | | | |
| SP | TIME(Local) | EVENT | COMMENTS | |
| 8016 | 02:00 | FSP | Start of line, first shot point | |
| 8023 | 02:25 | | String 1 turned on | |
| 8026 | 02:26 | | String 2 turned on | |
| 8028 | 02:49 | FOSP | | |
| 8177 | 12:18 | LSP | LSP | |
| 8177 | 12:43 | LSP | Last shot point | |
| VESSEL POSITION | | | | |
| FSP | 8016 | Lat(Latitude (N)) | Longitude (W) | |
| LSP | 8177 | 20F 27' 21.488" | 178F 30' 30.950" | |
| | | 20F 49' 13.440" | 178F 49' 37.620" | |
| NAVIGATION OFFSET ADJUST | | | | |
| NIP - COB | | | -180 | |
| NIP - CNO | | | NA | |
| COB - CNO | | | NA | |
| NIP - CNP | | | NA | |
| General remarks: | | | | |
| S1 GPS KO'd | | | | |
| S2 GPS KO'd | | | | |
| Acoustic String 1 Bad | | | | |
| EL | | | | |
| Lau_A023.0.p190 Lau_A023.0.p204 | | | | |
| No Streamer | | | | |
| Formal description & remarks | | good | Acoustic remarks | |
| Length: LauPhase1 source_bin:SCN001 length:RTCN | | | | |
| SP status: | | 450m | | |
| line status: | | Complete | | |

Seq 008 Line Name LAU_A023 J Day 31 DIR 101 FGSP 6030 LGSP 8167 sp space 450m comment

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------|--|---|--|---------------------|--------------------------|--------------|-----------------|----|-----------------|-----------------|------|-----------------|--|---------------|------|------------------|-----|--------------|------|-----------------|-----|---------------|------|------------------|
| Line Name: LAU_A022 | | | | <u>NAVIGATION</u> | | DATE: 2009-01-31 | | | | | | | | | | | | | | | | | | | |
| Seq# 009 | | | | <u>LINE LOGS</u> | | JULIAN DAY: 31 | | | | | | | | | | | | | | | | | | | |
| Line Brg: 281 ° | | | | <u>CLIENT: National Science Foundation</u> | | <u>SURVEY: Lau Basin</u> | | | | | | | | | | | | | | | | | | | |
| MGL0903 | | | | MGL0903 | | | | | | | | | | | | | | | | | | | | | |
| DC SOL: 149 m * | | DEPTH SOL: 2349 m | | NAVIGATION SYSTEM USED: C-Navy - Primary | | | | | | | | | | | | | | | | | | | | | |
| DC EOL: 245 m | | DEPTH EOL: 2169 m | | NAVIGATION SYSTEM USED: SnpPath 200 | | | | | | | | | | | | | | | | | | | | | |
| SMO SOL: 4.0 knots | | FEATHER SOL: 1/2 " | | NAVIGATION SYSTEM USED: Posnet | | | | | | | | | | | | | | | | | | | | | |
| SMO EOL: 4.5 knots | | FEATHER EOL: 1/2 " | | GRAVITY METER: BMG-ii | | | | | | | | | | | | | | | | | | | | | |
| WEATHER | | | | MAGNETOMETER: GeoMerrica: | | | | | | | | | | | | | | | | | | | | | |
| WIND SOL: 8 knots | | MAX FEATHER: 1/2 " | | MAG DEC USED : 13 | | | | | | | | | | | | | | | | | | | | | |
| WIND EOL: 4.4 knots | | 00:00 - 12:00 cst => Jonathan Sleggar, Regan Austin, ERICA Entry | | | | | | | | | | | | | | | | | | | | | | | |
| SEAS SOL: 2-4 ft | | 12:00 - 24:00 cst => | | | | | | | | | | | | | | | | | | | | | | | |
| SEAS EOL: 2-4 ft | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>SP</u> | <u>(TIME/UTC)</u> | <u>EVENT</u> | <u>COMMENTS</u> | | | | | | | | | | | | | | | | | | | | | | |
| 9020 | 11:03 | FGSP | Start of line, first shot point: 9020 | | | | | | | | | | | | | | | | | | | | | | |
| 9031 | 11:43 | FGSP | First good shot point | | | | | | | | | | | | | | | | | | | | | | |
| 9175 | 22:24 | FGSP | Last shot point | | | | | | | | | | | | | | | | | | | | | | |
| | | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">VESSEL POSITION</td> </tr> <tr> <td>SP</td> <td>Latitude (N)</td> </tr> <tr> <td>9020</td> <td>23° 47' 45.188"</td> </tr> <tr> <td></td> <td>Longitude (W)</td> </tr> <tr> <td>9020</td> <td>175° 52' 09.366"</td> </tr> <tr> <td>FSP</td> <td>Latitude (N)</td> </tr> <tr> <td>9175</td> <td>23° 48' 04.899"</td> </tr> <tr> <td>LSP</td> <td>Longitude (W)</td> </tr> <tr> <td>9175</td> <td>175° 52' 21.248"</td> </tr> </table> | | | | | VESSEL POSITION | | SP | Latitude (N) | 9020 | 23° 47' 45.188" | | Longitude (W) | 9020 | 175° 52' 09.366" | FSP | Latitude (N) | 9175 | 23° 48' 04.899" | LSP | Longitude (W) | 9175 | 175° 52' 21.248" |
| VESSEL POSITION | | | | | | | | | | | | | | | | | | | | | | | | | |
| SP | Latitude (N) | | | | | | | | | | | | | | | | | | | | | | | | |
| 9020 | 23° 47' 45.188" | | | | | | | | | | | | | | | | | | | | | | | | |
| | Longitude (W) | | | | | | | | | | | | | | | | | | | | | | | | |
| 9020 | 175° 52' 09.366" | | | | | | | | | | | | | | | | | | | | | | | | |
| FSP | Latitude (N) | | | | | | | | | | | | | | | | | | | | | | | | |
| 9175 | 23° 48' 04.899" | | | | | | | | | | | | | | | | | | | | | | | | |
| LSP | Longitude (W) | | | | | | | | | | | | | | | | | | | | | | | | |
| 9175 | 175° 52' 21.248" | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | <u>NAVIGATION OFFSET ADJUSTED</u> | | | | | | | | | | | | | | | | | | | | | | |
| | | | NIP - COS _____ 180 | | | | | | | | | | | | | | | | | | | | | | |
| | | | NIP - CNG _____ 180 | | | | | | | | | | | | | | | | | | | | | | |
| | | | COS - CNG _____ 180 | | | | | | | | | | | | | | | | | | | | | | |
| | | | NIP - CMP _____ 180 | | | | | | | | | | | | | | | | | | | | | | |
| | | | <i>(General remarks)</i> | | | | | | | | | | | | | | | | | | | | | | |
| | | | S1 GPS KGU | | | | | | | | | | | | | | | | | | | | | | |
| | | | S2 GPS KGU | | | | | | | | | | | | | | | | | | | | | | |
| | | | Acoustic String 1 Bad | | | | | | | | | | | | | | | | | | | | | | |
| | | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">E1</td> <td style="width: 50%;">E2</td> </tr> <tr> <td style="text-align: center;">Lau_A022_0.p190</td> <td style="text-align: center;">Lau_A022_0.p204</td> </tr> </table> | | | | | E1 | E2 | Lau_A022_0.p190 | Lau_A022_0.p204 | | | | | | | | | | | | | | |
| E1 | E2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Lau_A022_0.p190 | Lau_A022_0.p204 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | No Streamer | | | | | | | | | | | | | | | | | | | | | | |
| <u>Normal operations & remarks</u> | | | Length: LauPhase1 | | source: Sns SCND091 | | length: RTCN | | | | | | | | | | | | | | | | | | |
| Tideguy #1 | | | SP depth: | | 450m | | | | | | | | | | | | | | | | | | | | |
| Tideguy #2 | | | line status: Complete | | | | | | | | | | | | | | | | | | | | | | |
| Tideguy #3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tideguy #4 | | | | | | | | | | | | | | | | | | | | | | | | | |

Seq 009 Line Name LAU_A022 J Day 31 DIR 281 FGSF 6030 LQSF 450m SP space 450m comment

| Line Name: | | LAU_A021 | | NAVIGATION | | DATE: 2009-01-31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------|--|---------------------|---|-------------------|--------------------|--------------|-------------------|-------------------|--------------------|--------------|-----------|-----|----------------|-----|--|-----------|------|--|-----------|-----|----------------|------|--|--------------|----------|--|-----------|-----|----------------|------|--|--|--|--|-----------|-----|----------------|------|--|--|--|--|--|--|--|--|
| Seq# 010 | | Line Brg: 101 ° | | LINE LOGS | | JULIAN DAY: 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLIENT: National Science Foundation | | | | SURVEY: Lau Basin | | MGL0903 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DC SOL: -328.0m | | DEPTH SOL: 2779.0m | | NAVIGATION SYSTEM USED: C-Navy - Primary | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DC EOL: | | DEPTH EOL: 2364.0m | | NAVIGATION SYSTEM USED: SbpPath: 200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SMG SOL: 4.5 knots | | FEATHER SOL: 1/3 ° | | NAVIGATION SYSTEM USED: Posnet | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SMG EOL: | | FEATHER EOL: 1/3 ° | | GRAVITY METER: BMD-R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WEATHER | | MAX FEATHER: 1/3 ° | | MAGNETOMETER: GeoMetrics: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WIND SOL: 4.8 knots | | | | MAG DEC USED: 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WIND EOL: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SEAS SOL: 1 m | | 00:00 - 12:00 cat => Jonathan Sheppard, Regan Austin, Erica Emry | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SEAS EOL: | | 12:00 - 24:00 cat => Michaela Conley | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SP | TIME(S) | EVENT | Start of line | VESEL POSITION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10023 | 20:04 | FGSP | | SP | Latitude (N) | Longitude (W) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10022 | 20:04 | FGSP | | 10022 | 20° 26' 48.146" | 178° 20' 01.780" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10110 | 20:44 | | Maple turned off | LSP | 10114 | 20° 41' 13.780" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10114 | 1:12 | | Bridge 2 turned off | NAVIGATION OFFSET APPLIED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10114 | 1:12 | LGSP | Lau apex shov goes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | NRP - COS _____ -180 NRP - CNO _____ N/A COS - CNO _____ N/A NRP - CMP _____ N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| General remarks: | | | | S1 GPS K01 S2 GPS K04 Acoustic Sting 1 Bad S2 significant air leak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | E1 Lau_A021_0.p190 E2 Lau_A021_0.p204 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | <div style="border: 1px solid black; padding: 5px; text-align: center;">No Streamer</div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Formal description & remarks</th> <th>good</th> <th>none</th> <th>problems</th> <th>Acoustic remarks:</th> <th>Length: LauPhase1</th> <th>source: Bn SCND031</th> <th>Length: RTCN</th> </tr> </thead> <tbody> <tr> <td>Tefkey #1</td> <td>n/a</td> <td>Scan string #1</td> <td>bad</td> <td></td> <td>SP depth:</td> <td>450m</td> <td></td> </tr> <tr> <td>Tefkey #2</td> <td>n/a</td> <td>Scan string #2</td> <td>good</td> <td></td> <td>line status:</td> <td>Complete</td> <td></td> </tr> <tr> <td>Tefkey #3</td> <td>n/a</td> <td>Scan string #3</td> <td>good</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Tefkey #4</td> <td>n/a</td> <td>Scan string #4</td> <td>good</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | | | Formal description & remarks | good | none | problems | Acoustic remarks: | Length: LauPhase1 | source: Bn SCND031 | Length: RTCN | Tefkey #1 | n/a | Scan string #1 | bad | | SP depth: | 450m | | Tefkey #2 | n/a | Scan string #2 | good | | line status: | Complete | | Tefkey #3 | n/a | Scan string #3 | good | | | | | Tefkey #4 | n/a | Scan string #4 | good | | | | | | | | |
| Formal description & remarks | good | none | problems | Acoustic remarks: | Length: LauPhase1 | source: Bn SCND031 | Length: RTCN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tefkey #1 | n/a | Scan string #1 | bad | | SP depth: | 450m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tefkey #2 | n/a | Scan string #2 | good | | line status: | Complete | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tefkey #3 | n/a | Scan string #3 | good | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tefkey #4 | n/a | Scan string #4 | good | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Seq 010 Line Name LAU_A021 J Day 31 DIR 101 FGSP 6030 LGSP 450m sp space 450m comment

| | | | | |
|---|--------------------|--|---------------------------------|-------------------------|
| Seq# 012 | | Line Name: LAU_A021 | NAVIGATION | DATE: 2009-02-01 |
| Line Brg: 101 * | | LINE LOGS | | JULIAN DAY: 32 |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | | MGL0903 |
| DC SOL: 149 m * | DEPTH SOL: 2468.0m | NAVIGATION SYSTEM USED: C-Navy - Primary | | |
| DC EOL: 025.0m | DEPTH EOL: 2383.0m | NAVIGATION SYSTEM USED: SeaPath 200 | | |
| SMO SOL: 4.0 m/min | FEATHER SOL: 1/3 * | NAVIGATION SYSTEM USED: Posnet | | |
| SMO EOL: | FEATHER EOL: 1/3 * | GRAVITY METER: BMG-R | | |
| | MAX FEATHER: 1/3 * | MAGNETOMETER: GeoMetrics | | |
| | | MAG DEC USED: 13 | | |
| WEATHER | | | | |
| WIND SOL: 5.5 knots | | | | |
| WIND EOL: 5.3 knots | | | | |
| SEAS SOL: 00:00 - 12:00 cat => | | | | |
| SEAS EOL: 12:00 - 24:00 cat => | | | | |
| SP | TIME(S) | EVENT | COMMENTS | |
| 1205 | 05:12 | FGSP | Start of line, first shot point | |
| 1202 | 05:12 | FGSP | First good shot point | |
| 1219 | 07:29 | LQSP | Last good shot point | |
| 1210 | 07:59 | LGS | Last good shot | |
| VESEL POSITION | | | | |
| SP | Latitude (N) | Longitude (E) | | |
| FSP | 12082 | -29° 40' 21.420" | -178° 32' 10.560" | |
| LSP | 12180 | -29° 44' 16.280" | -178° 49' 32.880" | |
| NAVIGATION OFFSET ADJUST | | | | |
| NP - COS | | | -180 | |
| NP - CNO | | | NA | |
| OS - COS | | | NA | |
| OS - CNO | | | NA | |
| NP - CMP | | | NA | |
| Special remarks: | | | | |
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> No Streamer </div> | | | | |
| EL E2 Lau_A021.0.p100 Lau_A021.0.p204 | | | | |
| Physical description & remarks | good | name | comments | Acoustic remarks |
| Trawlout #1 | n/a | Scan string #1 | good | |
| Trawlout #2 | n/a | Scan string #2 | good | |
| Trawlout #3 | n/a | Scan string #3 | good | |
| Trawlout #4 | n/a | Scan string #4 | good | |
| line status: | | | Complete | |

| | | | | | | | |
|--|----------------------|--|---------------------------------|------------------|-------------------|----------|---------|
| Line Name: LAU_A020 | | NAVIGATION | | DATE: 2009-02-01 | | | |
| Seq# 013 | | LINE LOGS | | JULIAN DAY: 32 | | | |
| Line Brg: 281 ° | | SURVEY: Lau Basin | | MGL0903 | | | |
| CLIENT: National Science Foundation | | | | | | | |
| DC SOL: 340.0m | DEPTH SOL: 2376.0m | NAVIGATION SYSTEM USED: C-Navy - Primary | | | | | |
| DC EOL: 261.0m | DEPTH EOL: 2113.0m | NAVIGATION SYSTEM USED: SeaPath 200 | | | | | |
| SMO SOL: 4.5 knots | FEATHER SOL: 1/3 " | NAVIGATION SYSTEM USED: Posnet | | | | | |
| SMO EOL: 4.8-4.5 knots | FEATHER EOL: 1/3 " | GRAVITY METER: BMG-R | | | | | |
| WEATHER | | MAGNETOMETER: GeoMetrics: | | | | | |
| WIND SOL: 7.2 knots | MAX FEATHER: 1/3 " | MAG DEC USED: 13 | | | | | |
| WIND EOL: 7.8 knots | | | | | | | |
| SEAS SOL: | 00:00 - 12:00 cat => | | | | | | |
| SEAS EOL: # m | 12:00 - 24:00 cat => | | | | | | |
| SP | TIME/LOCAL | EVENT | COMMENTS | | | | |
| 13075 | 07:03 | FOSP | Start of line, first shot point | | | | |
| 13025 | 08:50 | FOSP | First good shot point | | | | |
| 13175 | 17:06 | LOSP | Last good shot point | | | | |
| 13175 | 17:06 | LSP | Last shot point | | | | |
| VESSEL POSITION | | | | | | | |
| | | SP | Latitude (N) | Longitude (E) | | | |
| | | FSP | 13083 | -20° 46' 37.230" | -175° 50' 29.940" | | |
| | | LSP | 13175 | -20° 59' 26.460" | -175° 50' 29.220" | | |
| NAVIGATION OFFSET ADJUSTED | | | | | | | |
| | | NIP - COS | -180 | | | | |
| | | NIP - CNG | NA | | | | |
| | | COS - CNG | NA | | | | |
| | | NIP - CMP | NA | | | | |
| General remarks: | | | | | | | |
| <div style="border: 1px solid black; padding: 5px; display: inline-block;"> No Streamer </div> | | | | | | | |
| Physical quantities & remarks | | good | none | uncommented | Acoustic remarks: | | |
| Trawllog #1 | n/a | Sea string #1 | good | | | | |
| Trawllog #2 | n/a | Sea string #2 | good | | | | |
| Trawllog #3 | n/a | Sea string #3 | good | | | | |
| Trawllog #4 | n/a | Sea string #4 | good | | | | |
| Line status: | | Complete | | | | | |
| Seq | Line Name | J Day | DIR | FOSP | LOSP | SP space | comment |
| Seq# 013 | LAU_A020 | 32 | 281 | 13025 | 13025 | 450m | |

| Seq# 015 | Line Name: LAU_A019 | NAVIGATION | DATE: 2009-02-01 | | | | | | | | | |
|--|---|--|------------------|----|--------------|---------------|-----|------|------------------|-----|------|------------------|
| Line Brg: 101 " | LINE LOGS | JULIAN DAY: 32 | | | | | | | | | | |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | MGL0903 | | | | | | | | | |
| DC SOL: 491.3m | DEPTH SOL: 2726.1m | NAVIGATION SYSTEM USED: C-Navy - Primary | | | | | | | | | | |
| DC EOL: 573.0m | DEPTH EOL: 2339.2m | NAVIGATION SYSTEM USED: SeaPath 200 | | | | | | | | | | |
| SMB SOL: 4.4 knots | FEATHER SOL: 1/3 " | NAVIGATION SYSTEM USED: Posnet | | | | | | | | | | |
| SMB EOL: 4.7 knots | FEATHER EOL: 1/3 " | GRAVITY METER: BMG-R | | | | | | | | | | |
| WEATHER | MAX FEATHER: 1/3 " | MAGNETOMETER: GeoMetrics | | | | | | | | | | |
| WIND SOL: 3 knots | | MAG DEC USED : 13 | | | | | | | | | | |
| WIND EOL: 2.1 knots | | | | | | | | | | | | |
| SEAS SOL: flat | 00:00 - 12:00 cat => | | | | | | | | | | | |
| SEAS EOL: | 12:00 - 24:00 cat => Erica Emry, Jonathan Stogger | | | | | | | | | | | |
| SP | EVENT | COMMENTS | | | | | | | | | | |
| 1902 | LSP | Start of line, first shot point | | | | | | | | | | |
| 1902 | FGSP | First good shot point | | | | | | | | | | |
| 1910 | LSP | Last good shot point | | | | | | | | | | |
| 1910 | LSP | Last shot point | | | | | | | | | | |
| | | | | | | | | | | | | |
| <table border="1"> <tr> <th>SP</th> <th>Latitude (N)</th> <th>Longitude (E)</th> </tr> <tr> <td>FSP</td> <td>1502</td> <td>-179 30' 52.250"</td> </tr> <tr> <td>LSP</td> <td>1510</td> <td>-179 30' 36.750"</td> </tr> </table> | | | | SP | Latitude (N) | Longitude (E) | FSP | 1502 | -179 30' 52.250" | LSP | 1510 | -179 30' 36.750" |
| SP | Latitude (N) | Longitude (E) | | | | | | | | | | |
| FSP | 1502 | -179 30' 52.250" | | | | | | | | | | |
| LSP | 1510 | -179 30' 36.750" | | | | | | | | | | |
| NAVIGATION OFFSET ADJUSTED NIP - COS _____ -180 NIP - CNG _____ N/A COS - CNG _____ N/A NIP - CMP _____ N/A General remarks: _____ E1 _____ Lau_A019.0.p190 E2 _____ Lau_A019.0.p204 No Streamer | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Line length & remarks good_smb comments | | Length: LauPhase1 source_bin(SCN001) length:RTCN | | | | | | | | | | |
| Testbay #1 | n/a Sun string #1 good | SP distance | 450m | | | | | | | | | |
| Testbay #2 | n/a Sun string #2 good | line status | Complete | | | | | | | | | |
| Testbay #3 | n/a Sun string #3 good | | | | | | | | | | | |
| Testbay #4 | n/a Sun string #4 good | | | | | | | | | | | |

Seq: Seq# 015 Line Name: LAU_A019 J Day: 32 DIR: 101 FGSP: 13025 LQSP: 15149 SP space: 450m comment: _____

| Line Name: LAU_A014B | | NAVIGATION | | DATE: 2009-02-03 | RV Langseth |
|---|--------------------|---------------------------------------|--|----------------------------------|-------------------|
| Seq# 025 | | Line Brg: 132 ° | LINE LOGS | JULIAN DAY: 34 | LDEO |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | | MGL0903 | |
| DC SOL: 16.0m | DEPTH SOL: -2100 | NAVIGATION SYSTEM USED: Ngy - Primary | | | |
| DC SOL: | DEPTH SOL: 2410.0m | NAVIGATION SYSTEM USED: SeaPath 200 | | | |
| SMG SOL: 4.5 knots | FEATHER SOL: 1/2 " | NAVIGATION SYSTEM USED: Posnet | | | |
| SMG SOL: 4.5 knots | FEATHER SOL: 1/2 " | GRAVITY METER: BOM B | | | |
| WEATHER: good | MAX FEATHER: 1/2 " | MAGNETOMETER: GeoMetrics 882 | | | |
| WIND SOL: 4.2 knots | | MAG DEC USED: 15 | | | |
| WIND SOL: 11 knots | | | | | |
| SEAS SOL: 2-4 ft. | 00:00 - 12:00 TOT | | | | |
| SEAS SOL: 2-4 ft. | 12:00 - 24:00 TOT | Jonathan Shepper | | | |
| SP | TIME(S) | EVENT | COMMENTS | VESSEL POSITION | |
| 2501 | 12:11 | FOSP | Start of line, first shot point | SP | Latitude (N) |
| 2501 | 12:11 | FOSP | First good shot point | 2501 | Longitude (E) |
| 2501 | 13:50 | LOSP | Last good shot point | FSP | 2501 |
| 2501 | 13:50 | LOSP | Last shot point | LSP | -17° 04' 37.500" |
| | | | | | -176° 29' 09.400" |
| | | | | NAVIGATION OFFSET APPLIED | |
| | | | | NIFF - CDS | -180 |
| | | | | NIFF - CNG | NA |
| | | | | COB - CNG | NA |
| | | | | NIFF - CWF | NA |
| General remarks: | | | | | |
| E1 E2 Lau_A014B.0.p150 Lau_A014B.0.p254 | | | | | |
| No Streamer | | | | | |
| Formal description & remarks: good, none, comments | | | Acoustic remarks: | | |
| Tideguy #1 na Sea string #1 none | | | Langseth: LauPhase1 source: Bin SCND001 Langseth: RTCN | | |
| Tideguy #2 na Sea string #2 none | | | SP depth: 450m | | |
| Tideguy #3 na Sea string #3 good | | | line status: | | |
| Tideguy #4 na Sea string #4 good | | | | | |

| Seq# 026 | Line Name: LAU_A014C | NAVIGATION | DATE: 2009-02-03 | RV Langseth |
|-------------------------------------|----------------------|--|------------------|-------------|
| Line Brg: 101 ° | LINE LOGS | JULIAN DAY: 34 | LDEO | |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | MGL0903 | |
| DC SOL: 16.0m | DEPTH SOL: 2474.0m | NAVIGATION SYSTEM USED: C-Navy - Primary | | |
| DC EOL: 387.5m | DEPTH EOL: 2384.0m | NAVIGATION SYSTEM USED: SeaPath 200 | | |
| SMO SOL: 4.5 knots | FEATHER SOL: 1/3 " | NAVIGATION SYSTEM USED: Posnet | | |
| SMO EOL: 4.5 knots | FEATHER EOL: 1/3 " | GRAVITY METER: BOM II | | |
| WEATHER: good | MAX FEATHER: 1/3 " | MAGNETOMETER: GeoMetrics 882 | | |
| WIND SOL: 12 knots | | MAG DEC USED: 13 | | |
| WIND EOL: 15 knots | | | | |
| SEAS SOL: 2-4 ft. | 00:00 - 12:00 TOT | | | |
| SEAS EOL: 2-4 ft. | 12:00 - 24:00 TOT | Jonathan Shepper | | |

| SP | TIME(S) | EVENT | COMMENTS |
|-------|---------|-------|---------------------------------|
| 20201 | 15:52 | FOSP | Start of line, first shot point |
| 20211 | 15:52 | FOSP | First good shot point |
| 20104 | 18:24 | LOSP | Last good shot point |
| 20104 | 18:24 | LOSP | Last shot point |

| VESEL POSITION | | |
|----------------|--------------|-------------------|
| SP | Latitude (N) | Longitude (E) |
| FSP | 28251 | -21° 04' 43.088" |
| LSP | 28104 | -178° 20' 49.860" |

| NAVIGATION OFFSET ADJUSTED | |
|----------------------------|-----|
| NIP - COS | 180 |
| NIP - CNG | 180 |
| COS - CNG | NA |
| NIP - CMP | NA |

General remarks:

| EL | E2 |
|------------------|------------------|
| LAU_A014C:0.0150 | LAU_A014C:0.0204 |

No Streamer

| Formal Observations & Remarks | good | none | comment | Acoustic remarks: |
|-------------------------------|------|------|---------|-------------------|
| Transect #1 | n/a | none | good | |
| Transect #2 | n/a | none | good | |
| Transect #3 | n/a | none | good | |
| Transect #4 | n/a | none | good | |

| Length: LauPhase1 | source: Bm SCND001 | length: RTCN |
|-------------------|--------------------|--------------|
| SP depth: 450m | | |

| line status: |
|--------------|
| |

| Line Name: LAU_A013 | | | | NAVIGATION | | DATE: 2009-02-03 | | RV Langseth | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------|------------------|---|-------------------------------|-----------------|--|--|-------------|---------|------|---------|-------------|-----|-------------|------|-------------|-----|-------------|------|-------------|-----|-------------|------|-------------|-----|-------------|------|--------------|--|--|--|--|--|
| Seq# 027 | | | | Line Brg: 11 ° | | JULIAN DAY: 34 | | LDEO | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLIENT: National Science Foundation | | | | SURVEY: Lau Basin | | MGL0903 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DC SOL: | | | DEPTH SOL: | | | NAVIGATION SYSTEM USED: C-Navy - Primary | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SMO SOL: 4.3 knots | | | FEATHER SOL: 1/3 " | | | NAVIGATION SYSTEM USED: SeaPath 200 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WIND SOL: 16 knots | | | MAX FEATHER: 1/3 " | | | NAVIGATION SYSTEM USED: Posnet | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WEATHER: good | | | | | | GRAVITY METER: BOM B | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SEAS SOL: 2-4 ft | | | 08:00 - 12:00 TOT | | | MAGNETOMETER: GeoMetrics 882 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SEAS SOL: 2-4 ft | | | 12:00 - 24:00 TOT | | | MAG DEC USED: 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SP | (TIME) | EVENT | COMMENTS | VESSEL POSITION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27023 | 16:29 | FOSP | Start of line, first shot point | SP | Latitude (N) | Longitude (E) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27023 | 16:29 | FOSP | First good shot point | 27023 | 18° 21' 19.920" | 179° 55' 22.560" | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27189 | 01:28 | LOSP | Last good shot point - \$1.82 powered off for repairs | LSP | 18° 21' 48.840" | 179° 55' 30.360" | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27265 | 04:19 | LSP | Last shot point | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27185 | 05:39 | | NO DATA. 0172 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div style="display: flex; justify-content: space-between;"> VEAS: COS _____ -180 VEAS: CNO _____ 180 </div> <div style="display: flex; justify-content: space-between;"> COS: COS _____ NA COS: CNO _____ NA </div> <div style="display: flex; justify-content: space-between;"> MRP: CMF _____ NA MRP: CNF _____ NA </div> <div style="text-align: center; margin-top: 20px;"> EL E2 Lau_A013.0.p190 Lau_A013.0.p204 <div style="border: 1px solid black; padding: 2px; display: inline-block; margin: 5px;">No Streamer</div> </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div style="display: flex; justify-content: space-between;"> Length: LauPhase1 source: Bin_SCHN001 length: RTCN </div> <div style="display: flex; justify-content: space-between;"> SP depth: 450m </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Formal observations & remarks</th> <th colspan="2">Acoustic remarks</th> </tr> <tr> <th>TR</th> <th>REMARKS</th> <th>TIME</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td>Trailway #1</td> <td>n/a</td> <td>08:00-09:00</td> <td>none</td> </tr> <tr> <td>Trailway #2</td> <td>n/a</td> <td>09:00-10:00</td> <td>good</td> </tr> <tr> <td>Trailway #3</td> <td>n/a</td> <td>10:00-11:00</td> <td>good</td> </tr> <tr> <td>Trailway #4</td> <td>n/a</td> <td>11:00-12:00</td> <td>good</td> </tr> </tbody> </table> | | | | Formal observations & remarks | | Acoustic remarks | | TR | REMARKS | TIME | REMARKS | Trailway #1 | n/a | 08:00-09:00 | none | Trailway #2 | n/a | 09:00-10:00 | good | Trailway #3 | n/a | 10:00-11:00 | good | Trailway #4 | n/a | 11:00-12:00 | good | line status: | | | | | |
| Formal observations & remarks | | Acoustic remarks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TR | REMARKS | TIME | REMARKS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trailway #1 | n/a | 08:00-09:00 | none | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trailway #2 | n/a | 09:00-10:00 | good | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trailway #3 | n/a | 10:00-11:00 | good | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trailway #4 | n/a | 11:00-12:00 | good | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

FOSP LGSP SP space comment
 27023 27189 450m

| Line Name: LAU_A012A | | NAVIGATION | | DATE: 2009-02-04 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------|-------------------------------------|---|---|----------|----------------------------|--------------|---------------|-----------|---------------|-------------------|-----------|-------|-------------------|-----------|---------------|-------------------|-----------|--|---------------|----|---------------|------|--|--|---------------|----|---------------|------|--|--|---|--|--|--|--------|-------|--------|-----|-----|-----|--------|------|--|--|--|--|--|--|--|--|
| Line Brg: 281 ° | | LINE LOGS | | JULIAN DAY: 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | | MGL0903 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Seq# 030 | | DC SOL: 128.5m | | DEPTH SOL: 2422.7m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DC EOL: 208.0m | | DC EOL: 208.0m | | DEPTH EOL: 2173.0m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SMO SOL: 4.7 knots | | SMO SOL: 4.7 knots | | FEATHER SOL: 1/3 " | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SMO EOL: 4.7 knots | | SMO EOL: 4.7 knots | | FEATHER EOL: 1/3 " | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WEATHER | | WIND SOL: 2 knots | | WIND EOL: 4 knots | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SEAS SOL: calm | | SEAS SOL: calm | | 00:00 - 12:00 cat => Michael Conley, Olga Hernandez | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SEAS EOL: calm | | SEAS EOL: calm | | 12:00 - 24:00 cat => Ruggie Austin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NAVIGATION SYSTEM USED: Naya - Primary | | NAVIGATION SYSTEM USED: SeaPath 200 | | NAVIGATION SYSTEM USED: Posnet | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GRAVITY METER: BMG-B | | MAGNETOMETER: GeoMetrics | | MAG DEC USED: 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SP | TIME(S) | EVENT | COMMENTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30023 | 13:11 | FOSP | Start of line, first shot point: Line A012A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30023 | 13:11 | FOSP | First good shot point | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30029 | 13:22 | LOSP | Last good shot point | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30029 | 13:22 | LOSP | Last shot point | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>SP</th> <th>Latitude (N)</th> <th>Longitude (E)</th> </tr> </thead> <tbody> <tr> <td>FSP</td> <td>30023</td> <td>-178° 08' 59.274"</td> </tr> <tr> <td>LSP</td> <td>30029</td> <td>-178° 07' 46.510"</td> </tr> </tbody> </table> | | | | | | SP | Latitude (N) | Longitude (E) | FSP | 30023 | -178° 08' 59.274" | LSP | 30029 | -178° 07' 46.510" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SP | Latitude (N) | Longitude (E) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FSP | 30023 | -178° 08' 59.274" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LSP | 30029 | -178° 07' 46.510" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="3">VESEL POSITION</th> </tr> <tr> <th>SP</th> <th>Latitude (N)</th> <th>Longitude (E)</th> </tr> </thead> <tbody> <tr> <td>FSP</td> <td>30023</td> <td>-178° 08' 59.274"</td> </tr> <tr> <td>LSP</td> <td>30029</td> <td>-178° 07' 46.510"</td> </tr> </tbody> </table> | | | | | | VESEL POSITION | | | SP | Latitude (N) | Longitude (E) | FSP | 30023 | -178° 08' 59.274" | LSP | 30029 | -178° 07' 46.510" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VESEL POSITION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SP | Latitude (N) | Longitude (E) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FSP | 30023 | -178° 08' 59.274" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LSP | 30029 | -178° 07' 46.510" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="3">NAVIGATION OFFSET ADJUSTED</th> </tr> </thead> <tbody> <tr> <td>NIP - COS</td> <td></td> <td>-180</td> </tr> <tr> <td>NIP - CNO</td> <td></td> <td>NA</td> </tr> <tr> <td>COS - CNO</td> <td></td> <td>NA</td> </tr> <tr> <td>NIP - CMT</td> <td></td> <td>NA</td> </tr> </tbody> </table> | | | | | | NAVIGATION OFFSET ADJUSTED | | | NIP - COS | | -180 | NIP - CNO | | NA | COS - CNO | | NA | NIP - CMT | | NA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NAVIGATION OFFSET ADJUSTED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NIP - COS | | -180 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NIP - CNO | | NA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COS - CNO | | NA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NIP - CMT | | NA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Special remarks:</p> <p>EL E2</p> <p>Lau_A012A.0.p180 Lau_A012A.0.p254</p> <p>No Streamer</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Point</th> <th>Location</th> <th>Remarks</th> <th>Good</th> <th>Point</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>Trajectory #1</td> <td>NA</td> <td>Sea string #1</td> <td>good</td> <td></td> <td></td> </tr> <tr> <td>Trajectory #2</td> <td>NA</td> <td>Sea string #2</td> <td>good</td> <td></td> <td></td> </tr> <tr> <td>Trajectory #3</td> <td>NA</td> <td>Sea string #3</td> <td>good</td> <td></td> <td></td> </tr> <tr> <td>Trajectory #4</td> <td>NA</td> <td>Sea string #4</td> <td>good</td> <td></td> <td></td> </tr> </tbody> </table> | | Point | Location | Remarks | Good | Point | Comments | Trajectory #1 | NA | Sea string #1 | good | | | Trajectory #2 | NA | Sea string #2 | good | | | Trajectory #3 | NA | Sea string #3 | good | | | Trajectory #4 | NA | Sea string #4 | good | | | <table border="1"> <thead> <tr> <th>Length</th> <th>Phase</th> <th>Source</th> <th>Bin</th> <th>SCN</th> <th>DDI</th> <th>Length</th> <th>RTCN</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | | | Length | Phase | Source | Bin | SCN | DDI | Length | RTCN | | | | | | | | |
| Point | Location | Remarks | Good | Point | Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trajectory #1 | NA | Sea string #1 | good | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trajectory #2 | NA | Sea string #2 | good | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trajectory #3 | NA | Sea string #3 | good | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trajectory #4 | NA | Sea string #4 | good | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Length | Phase | Source | Bin | SCN | DDI | Length | RTCN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>line status: Complete</p> | | <p>SP spacing: 450m</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Seq 030 Line Name LAU_A012A J Day 35 DIR 281 FOSP 30023 LOSP 30029 SP space 450m comment

| Line Name: LAU_A011A | | | NAVIGATION | DATE: 2009-02-04 |
|-------------------------------------|---------------------------------------|---|------------|------------------|
| Seq# 032 | | | LINE LOGS | JULIAN DAY: 35 |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | | MGL0903 |
| DC SOL: 1.4m | DEPTH SOL: 2472.0m | NAVIGATION SYSTEM USED=C-Navy - Primary | | |
| DC EOL: | DEPTH EOL: | NAVIGATION SYSTEM USED=SeaPath 200 | | |
| SMG SOL: 4.5 knots | FEATHER SOL: 1/3 " | NAVIGATION SYSTEM USED=Posnet | | |
| SMG EOL: | FEATHER EOL: 1/3 " | GRAVITY METER: BMG-R | | |
| WEATHER | MAX FEATHER: 1/3 " | MAGNETOMETER: GeoMatics: | | |
| WIND SOL: 9 knots | | MAG DEC USED : 13 | | |
| WIND EOL: | | | | |
| SEAS SOL: calm | 00:00 - 12:00 cal -- | | | |
| SEAS EOL: calm | 12:00 - 24:00 cal -- Jonathan Stepper | | | |

| SP | TIME/UTC | EVENT | COMMENTS | VESEL POSITION |
|-------|----------|-------|--|----------------|
| 32024 | 21:53 | FOSP | Start of line, first shot point; Line A011 | SP 33024 |
| | | LOSP | First good shot point | Latitude (N) |
| | | LOSP | Last good shot point | Longitude (E) |
| 32029 | 22:07 | LSP | Last shot point | SP 21 35.580" |
| | | | | 178 00 53.460" |
| | | | | LSP 20 38.297" |
| | | | | 178 01 54.640" |

| NAVIGATION OFFSET ADCS/EE | | | |
|---------------------------|--|--|------|
| NIP - COS | | | -180 |
| NIP - CNO | | | NA |
| COS - CNO | | | NA |
| NIP - CMT | | | NA |

(General remarks:)

| EL | | | |
|------------------|------------------|-------------|--|
| LAU_A011A.0.p150 | LAU_A011A.0.p254 | No Streamer | |
| | | | |

| Formal description & remarks | good | none | comment | Acoustic remarks |
|------------------------------|------|---------------|---------|------------------|
| Trawlout #1 | n/a | Sea string #1 | good | |
| Trawlout #2 | n/a | Sea string #2 | good | |
| Trawlout #3 | n/a | Sea string #3 | good | |
| Trawlout #4 | n/a | Sea string #4 | good | |

| Line Name | Seq | J Day | DIR | FGSP | LGSP | sp space | comment |
|-----------|----------|-------|-----|-------|-------|----------|---------|
| LAU_A011A | Seq# 032 | 35 | 281 | 33024 | 33028 | 450m | |

| Seq# 033 | | Line Name: LAU_A010 | | NAVIGATION | | DATE: 2009-02-04 | |
|-------------------------------------|---------|---------------------------------------|-----------------------------------|---|---------------------|-------------------|--|
| Line Brg: 191 ° | | LINE LOGS | | JULIAN DAY: 35 | | | |
| CLIENT: National Science Foundation | | | SURVEY: Lau Basin | | | MGL0903 | |
| DC SOL: 259.6m | | DEPTH SOL: 2472.0m | | NAVIGATION SYSTEM USED: C-Nav - Primary | | | |
| DC EOL | | DEPTH EOL: 2292.0m | | NAVIGATION SYSTEM USED: ShipPath 200 | | | |
| SMG SOL: 4.5 knots | | FEATHER SOL: 1/8 " | | NAVIGATION SYSTEM USED: Posnet | | | |
| SMG EOL: | | FEATHER EOL: 1/8 " | | GRAVITY METER: BMG-R | | | |
| WEATHER | | MAX FEATHER: 1/8 " | | MAGNETOMETER: GeoMetrics: | | | |
| WIND SOL: 9 knots | | | | MAG DEC USED: 13 | | | |
| WIND EOL: 2.4 knots | | | | | | | |
| SEAS SOL: calm | | 00:00 - 12:00 cal => | | | | | |
| SEAS EOL: calm | | 12:00 - 24:00 cal => Jonathan Shepper | | | | | |
| SP | TIME(S) | EVENT | COMMENTS | VESSEL POSITION | | | |
| 3305 | 22:15 | FOSP | Start of line, first shot point | SP | Latitude (N) | Longitude (E) | |
| 3307 | 22:36 | FOSP | First good shot point | 3305 | -20° 27' 16.880" | -178° 02' 41.880" | |
| 3309 | 23:17 | FOSP | End of line, last good shot point | LSP | -21° 07' 05.840" | -178° 12' 09.480" | |
| | | | | NAVIGATION OFFSET ADJUSTED | | | |
| | | | | NIP - CBS | -180 | | |
| | | | | NIP - CNO | -180 | | |
| | | | | COS - CBS | -180 | | |
| | | | | COS - CNO | -180 | | |
| | | | | NIP - CWF | -180 | | |
| General remarks: | | | | <p>EL E2</p> <p>Lau_A010.0.p190 Lau_A010.0.p204</p> <p>No Streamer</p> | | | |
| Special remarks: | | | | Length: LauPhase1 | source: Bin SCND001 | length: RTCN | |
| | | | | SP depth: 450m | | | |
| | | | | line status: | | | |
| Param Description & Remarks | | good | none | comment | | | |
| Trailway #1 | n/a | Scan string #1 | good | 11, 12 HCU in SOL | | | |
| Trailway #2 | n/a | Scan string #2 | good | | | | |
| Trailway #3 | n/a | Scan string #3 | good | | | | |
| Trailway #4 | n/a | Scan string #4 | good | | | | |

| | | | | | | | |
|----------|-----------|--------|-----|-------|-------|----------|---------|
| Seq | Line Name | J. Day | DIR | FOSP | LOSP | SP depth | comment |
| Seq# 033 | LAU_A010 | 35 | 191 | 33027 | 33205 | 450m | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------------------------|--|---------------------------------|------------------|-----------------------------------|-------------|-----------|----------------|-----------|-------------|-----------|----------------|-----------|-------------|----|----------------|-----|-------------|----|----------------|---------------|--|--|--|-------------------|---------------------|--------------|--------------|------|--|
| Seq# 038 | | Line Name: LAU_A008cont | NAVIGATION | DATE: 2009-02-05 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line Brg: 191 ° | | LINE LOGS | JULIAN DAY: 36 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | MGL0903 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DC SOL: 3.3m | DEPTH SOL: 2340.0m | NAVIGATION SYSTEM USED: C-Navy - Primary | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DC EOL: 1.2m | DEPTH EOL: 2430.0m | NAVIGATION SYSTEM USED: SnpPath 200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SMG SOL: 4.5 knots | FEATHER SOL: 1/3 " | NAVIGATION SYSTEM USED: Posnet | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SMG EOL: 4.5 knots | FEATHER EOL: 1/3 " | GRAVITY METER: BMG-II | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WEATHER | | MAGNETOMETER: GeoMetrics: | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WIND SOL: 1 knots | MAX FEATHER: 1/3 " | MAG DEC USED : 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WIND EOL: 1 knots | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SEAS SOL: calm | 00:00 - 12:00 cat => | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SEAS EOL: calm | 12:00 - 24:00 cat => Rugged Swells | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SP | TIME(S) | EVENT | COMMENTS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 38077 | 22:23 | LSP | Start of line; first shot point | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 38078 | 22:27 | LSP | End of line; last shot point | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p><i>NOTE: Vessel position is recorded with a Lon of 36, but a comparison of GPS data for start and end time is SP</i></p> <p><i>*Changed Longitude data to reflect that of GPS data (02/05/2009)</i></p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Refer to Log 0209</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">NAVIGATION OFFSET ADJUSTED</td> </tr> <tr> <td>NIF - COS</td> <td style="text-align: right;">-180</td> </tr> <tr> <td>NIF - CNG</td> <td style="text-align: right;">NA</td> </tr> <tr> <td>COS - CNG</td> <td style="text-align: right;">NA</td> </tr> <tr> <td>NIF - CWF</td> <td style="text-align: right;">NA</td> </tr> </table> | | | | | NAVIGATION OFFSET ADJUSTED | | NIF - COS | -180 | NIF - CNG | NA | COS - CNG | NA | NIF - CWF | NA | | | | | | | | | | | | | | | | |
| NAVIGATION OFFSET ADJUSTED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NIF - COS | -180 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NIF - CNG | NA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COS - CNG | NA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NIF - CWF | NA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| General remarks: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <p style="margin: 0;">EL E2</p> <p style="margin: 0;">Lau_A008_1.p190 Lau_A008_1.p204</p> <p style="text-align: center; margin: 0;">No Streamer</p> </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Line start/stop & remarks</td> <td>start</td> <td>stop</td> <td>remarks</td> </tr> <tr> <td>Trailway #1</td> <td>na</td> <td>Scan string #1</td> <td>good</td> </tr> <tr> <td>Trailway #2</td> <td>na</td> <td>Scan string #2</td> <td>ok</td> </tr> <tr> <td>Trailway #3</td> <td>na</td> <td>Scan string #3</td> <td>off</td> </tr> <tr> <td>Trailway #4</td> <td>na</td> <td>Scan string #4</td> <td>not installed</td> </tr> </table> | | Line start/stop & remarks | start | stop | remarks | Trailway #1 | na | Scan string #1 | good | Trailway #2 | na | Scan string #2 | ok | Trailway #3 | na | Scan string #3 | off | Trailway #4 | na | Scan string #4 | not installed | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Length: LauPhase1</td> <td>source: Sns SCND001</td> <td>length: RTCN</td> </tr> <tr> <td>SP spool(s):</td> <td colspan="2">450s</td> </tr> </table> | | | Length: LauPhase1 | source: Sns SCND001 | length: RTCN | SP spool(s): | 450s | |
| Line start/stop & remarks | start | stop | remarks | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trailway #1 | na | Scan string #1 | good | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trailway #2 | na | Scan string #2 | ok | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trailway #3 | na | Scan string #3 | off | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trailway #4 | na | Scan string #4 | not installed | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Length: LauPhase1 | source: Sns SCND001 | length: RTCN | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SP spool(s): | 450s | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| line status: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Seq 038 Line Name LAU_A008cont J Day 36 DIR 191 FGSP 38077 LGSP 38078 SP space 450m comment

| Seq# 044 | | Line Name: LAU_A028A | | NAVIGATION | | DATE: 2009-02-07 | |
|-------------------------------------|---------|---------------------------------|---------------------------------|--|---------------------|------------------|--|
| Line Brg: 101 ° | | LINE LOGS | | JULIAN DAY: 38 | | | |
| CLIENT: National Science Foundation | | | SURVEY: Lau Basin | | | MGL0903 | |
| DC SOL: 323.3m | | DEPTH SOL: 2729.0m | | NAVIGATION SYSTEM USED: C-Navy - Primary | | | |
| SMG SOL: 4.3 knots | | DEPTH EOL: 2262.2m | | NAVIGATION SYSTEM USED: SspPath: 200 | | | |
| WEATHER | | FEATHER SOL: 1/2 " | | NAVIGATION SYSTEM USED: Posnet | | | |
| WIND SOL: 11 knots | | FEATHER EOL: 1/2 " | | GRAVITY METER: BMG-II | | | |
| WIND EOL: 10 knots | | MAX FEATHER: 1/2 " | | MAGNETOMETER: GeoMetrics: | | | |
| SEAS SOL: 1 m | | 00:00 - 12:00 cat => | | MAG DEC USED : 13 | | | |
| SEAS EOL: 1 m | | 12:00 - 24:00 cat => Erica Emry | | | | | |
| SP | TIME(S) | EVENT | COMMENTS | VESSEL POSITION | | | |
| 44021 | 15:16 | FSP | Start of line, first shot point | FSP | Latitude (N) | Longitude (E) | |
| 44021 | 15:18 | FGSP | First good shot point | 44021 | 20° 27' 47.230" | 178° 08' 35.847" | |
| 44021 | 15:50 | LSP | Last good shot point | LSP | 20° 27' 22.541" | 178° 08' 37.290" | |
| 44021 | 15:50 | LSP | End of line, last shot point | NAVIGATION OFFSET ADJUST | | | |
| | | | | NIP - COS | | -160 | |
| | | | | NIP - CNO | | NA | |
| | | | | COS - CNO | | NA | |
| | | | | NIP - CNP | | NA | |
| General remarks: | | | | | | | |
| | | | | E1 | E2 | | |
| | | | | LAU_A028A.0.p150 | LAU_A028A.0.p254 | | |
| No Streamer | | | | | | | |
| Target description & remarks | good | name | comments | Acoustic remarks: | | | |
| Tracklog #1 | n/a | Scan string #1 | bad | Tracklog #1 | | | |
| Tracklog #2 | n/a | Scan string #2 | good | Tracklog #2 | | | |
| Tracklog #3 | n/a | Scan string #3 | good | Tracklog #3 | | | |
| Tracklog #4 | n/a | Scan string #4 | good | Tracklog #4 | | | |
| | | | | Line length: LauPhase1 | source_bin (SCND05) | length:RTCN | |
| | | | | SP shalots: | 475m | | |
| | | | | line status: | complete | | |

Seq 044 Line Name LAU_A028A J Day 38 DIR 101 FGSF LGSF 44021 44021 475m

| Seq# 045 | | Line Name: LAU_A008R | NAVIGATION | DATE: 2008-02-07 |
|-------------------------------------|---|--|----------------|------------------|
| Line Brg: 191 ° | | LINE LOGS | JULIAN DAY: 38 | |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | MGL0903 | |
| DC SOL: 287.6m | DEPTH SOL: 2295.9m | NAVIGATION SYSTEM USED: C-Navy - Primary | | |
| DC EOL: 422.5m | DEPTH EOL: 2386.8m | NAVIGATION SYSTEM USED: SeaPath 200 | | |
| SMO SOL: 4.2 knots | FEATHER SOL: 1/3 " | NAVIGATION SYSTEM USED: Posnet | | |
| SMO EOL: 4.5 knots | FEATHER EOL: 1/3 " | GRAVITY METER: BMG-ii | | |
| WEATHER | | MAGNETOMETER: GeoMetrics: | | |
| WIND SOL: 10 knots | MAX FEATHER: 1/3 " | MAG DEC USED: 13 | | |
| WIND EOL: 5 knots | | | | |
| SEAS SOL: flat | 00:00 - 12:00 cat => | | | |
| SEAS EOL: flat | 12:00 - 24:00 cat => Erica Emry, Jonathan Stepper | | | |

| SP | (TIME) | EVENT | COMMENTS |
|-------|--------|-------|---------------------------------|
| 45079 | 15:52 | FSP | Start of line, first shot point |
| 45019 | 15:53 | FOSP | First good shot point |
| 45073 | 18:59 | LOSP | Last good shot point |
| 45073 | 18:59 | LSP | End of line, last shot point |

| SP | Latitude (N) | Longitude (E) |
|-------|-----------------|------------------|
| 45019 | 28° 21' 39.910" | 178° 00' 48.441" |
| 45073 | 28° 21' 18.150" | 178° 00' 44.520" |

NAVIGATION OFFSET ADJUSTED

| | |
|-----------|-----|
| NIP - COB | 180 |
| NIP - CNG | 180 |
| COB - CNG | NA |
| NIP - CNP | 180 |

General remarks:

| EL | E2 |
|------------------|------------------|
| LAU_A008R.0.p190 | LAU_A008R.0.p294 |

No Streamer

| Line Name | Length | Source | RTN |
|-------------|--------|--------|-----|
| LAU_A008R.0 | 475m | | |

| Line Name | Length | Source | RTN |
|-------------|--------|--------|-----|
| LAU_A008R.0 | 475m | | |

| Seq | Line Name | J Day | DIR | FGSP | LOSP | SP | space | comment |
|----------|-----------|-------|-----|-------|-------|------|-------|---------|
| Seq# 045 | LAU_A008R | 38 | 191 | 45019 | 45073 | 475m | | |

Seq# 047 Line Name: LAU_A005 **NAVIGATION** DATE: 2008-02-07
 Line Brg: 11 ° **LINE LOGS** JULIAN DAY: 38

CLIENT: National Science Foundation SURVEY: Lau Basin MGL0903

DC SOL: 4.3 m DEPTH SOL: 2574.6m NAVIGATION SYSTEM USED: C-Navy - Primary
 DC EOL: 29.0km DEPTH EOL: 2675.0m NAVIGATION SYSTEM USED: SeaPath 200
 SMO SOL: 4.5 km/hrs FEATHER SOL: 1/2 " NAVIGATION SYSTEM USED: Posnet
 SMO EOL: 4.5 km/hrs FEATHER EOL: 1/2 " GRAVITY METER: BMG-II
 WEATHER: MAGNETOMETER: GeoMetrics
 MAG DEC USED: 13

WIND SOL: 0 knots
 WIND EOL: 22:30 knots
 SEAS SOL: 2.7m
 SEAS EOL: 00:00 - 12:00 cat == 12:00 - 24:00 cat == Jonathan Skipper

| SP | TIME(SOL) | EVENT | COMMENTS |
|-------|-----------|-------|---------------------------------|
| 47193 | 00:00 | FSP | Start of line, first shot point |
| 47193 | 22:30 | FGSP | First good shot point |
| 47221 | 00:06 | LSP | Last good shot point |
| 47221 | 00:06 | LSP | End of line, last shot point |

| SP | Latitude (N) | Longitude (E) |
|-----|--------------|---------------|
| FSP | 47193 | 178 09 39.660 |
| LSP | 47221 | 178 09 39.660 |

NAVIGATION OFFSET APPLIED

NIP - COS _____ 180
 NIP - CNG _____ N/A
 COS - CNG _____ N/A
 NIP - CMP _____ N/A

General remarks:

EL E2
 Lau_A005.0.p190 Lau_A005.0.p204

No Streamer

| Item | Description & Remarks | good | ok | poor | unusable | Acoustic remarks: |
|-------------|-----------------------|---------------|------|------|----------|-------------------|
| Trawllog #1 | n/a | 00m string #1 | good | | | 19 kHz |
| Trawllog #2 | n/a | 00m string #2 | bad | | | |
| Trawllog #3 | n/a | 00m string #3 | good | | | |
| Trawllog #4 | n/a | 00m string #4 | good | | | |

Length: LauPhase1 source: Bin SCND001 length: RTON
 SP start/stop: 475m
 line status:

Seq: 047 Line Name: LAU_A005 J Day: 38 DIR: 11 ° FGSP: 47193 LSP: 47221 SP space: 475m comment:

| | | | | | | | | | | | | | | | | | | | | |
|--|---------------------------------------|--|---------------------------------|---|----------------------------|--|-------------------|---------------------|------------------|--------------|------------------|--|-------|------------------|------------------|----|-----------|------------------|------------------|--|
| Seq# 052 | | Line Name: LAU_A003A | NAVIGATION | DATE: 2009-02-08 | | | | | | | | | | | | | | | | |
| LINE LOGS | | Line Brg: turn ° | JULIAN DAY: 39 | | | | | | | | | | | | | | | | | |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | | MGL0903 | | | | | | | | | | | | | | | | |
| DC SOL: 394.6m | DEPTH SOL: 2360.0m | NAVIGATION SYSTEM USED: C-Navy - Primary | | | | | | | | | | | | | | | | | | |
| DC EOL: 263.3m | DEPTH EOL: 2346.0m | NAVIGATION SYSTEM USED: SnpPath: 200 | | | | | | | | | | | | | | | | | | |
| SMO SOL: 4.3 knots | FEATHER SOL: 1/3 " | NAVIGATION SYSTEM USED: Posnet | | | | | | | | | | | | | | | | | | |
| SMO EOL: 4.3 knots | FEATHER EOL: 1/3 " | GRAVITY METER: BMG-II | | | | | | | | | | | | | | | | | | |
| WEATHER | | MAGNETOMETER: GeoMetrics: | | | | | | | | | | | | | | | | | | |
| WIND SOL: 2 knots | | MAG DEC USED : 13 | | | | | | | | | | | | | | | | | | |
| WIND EOL: 2 knots | | | | | | | | | | | | | | | | | | | | |
| SEAS SOL: 1.2 ft | 00:00 - 12:00 cat => | | | | | | | | | | | | | | | | | | | |
| SEAS EOL: 1.2 ft | 12:00 - 24:00 cat => Jonathan Stepper | | | | | | | | | | | | | | | | | | | |
| SP | TIME/LOC | EVENT | COMMENTS | | | | | | | | | | | | | | | | | |
| S2021 | 18:35 | FSP | Start of line, first shot point | | | | | | | | | | | | | | | | | |
| S2022 | 18:35 | FOSP | First good shot point | | | | | | | | | | | | | | | | | |
| S2023 | 18:51 | LOSP | Last good shot point | | | | | | | | | | | | | | | | | |
| S2024 | 18:51 | LSP | End of line, last shot point | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2"></td> <td colspan="2" style="text-align: center;">VESSEL POSITION</td> </tr> <tr> <td>SP</td> <td>Latitude (N)</td> <td colspan="2">Longitude (E)</td> </tr> <tr> <td>S2022</td> <td>-20° 21' 28.514"</td> <td colspan="2">178° 12' 09.822"</td> </tr> <tr> <td>LSP</td> <td>-20° 21' 18.950"</td> <td colspan="2">178° 12' 09.800"</td> </tr> </table> | | | | | | | VESSEL POSITION | | SP | Latitude (N) | Longitude (E) | | S2022 | -20° 21' 28.514" | 178° 12' 09.822" | | LSP | -20° 21' 18.950" | 178° 12' 09.800" | |
| | | VESSEL POSITION | | | | | | | | | | | | | | | | | | |
| SP | Latitude (N) | Longitude (E) | | | | | | | | | | | | | | | | | | |
| S2022 | -20° 21' 28.514" | 178° 12' 09.822" | | | | | | | | | | | | | | | | | | |
| LSP | -20° 21' 18.950" | 178° 12' 09.800" | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="3" style="text-align: center;">NAVIGATION OFFSET ADJUSTED</td> </tr> <tr> <td>NIP - COS</td> <td></td> <td>-180</td> </tr> <tr> <td>NIP - CNG</td> <td></td> <td>NA</td> </tr> <tr> <td>COS - CNG</td> <td></td> <td>NA</td> </tr> <tr> <td>NIP - CMP</td> <td></td> <td>NA</td> </tr> </table> | | | | | NAVIGATION OFFSET ADJUSTED | | | NIP - COS | | -180 | NIP - CNG | | NA | COS - CNG | | NA | NIP - CMP | | NA | |
| NAVIGATION OFFSET ADJUSTED | | | | | | | | | | | | | | | | | | | | |
| NIP - COS | | -180 | | | | | | | | | | | | | | | | | | |
| NIP - CNG | | NA | | | | | | | | | | | | | | | | | | |
| COS - CNG | | NA | | | | | | | | | | | | | | | | | | |
| NIP - CMP | | NA | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">E1</td> <td colspan="2" style="text-align: center;">E2</td> </tr> <tr> <td colspan="2" style="text-align: center;">Lau_A003A.0.p150</td> <td colspan="2" style="text-align: center;">Lau_A003A.0.p254</td> </tr> </table> | | | | | E1 | | E2 | | Lau_A003A.0.p150 | | Lau_A003A.0.p254 | | | | | | | | | |
| E1 | | E2 | | | | | | | | | | | | | | | | | | |
| Lau_A003A.0.p150 | | Lau_A003A.0.p254 | | | | | | | | | | | | | | | | | | |
| No Streamer | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Line Name</td> <td>LAU_A003A</td> </tr> </table> | | Line Name | LAU_A003A | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Length: LauPhase1</td> <td>source: Sns SCND001</td> <td>length: RTCN</td> </tr> <tr> <td>SP spool(s)</td> <td colspan="2">475m</td> </tr> </table> | | | Length: LauPhase1 | source: Sns SCND001 | length: RTCN | SP spool(s) | 475m | | | | | | | | | |
| Line Name | LAU_A003A | | | | | | | | | | | | | | | | | | | |
| Length: LauPhase1 | source: Sns SCND001 | length: RTCN | | | | | | | | | | | | | | | | | | |
| SP spool(s) | 475m | | | | | | | | | | | | | | | | | | | |
| line status: | | | | | | | | | | | | | | | | | | | | |

Seq 052 Line Name LAU_A003A J Day 39 DIR turn ° FGSP S2022 LGSP S2028 SP space 475m comment

| | | | | | | | | | | | | | | | | | | | | |
|--|------------------------------------|--|---------------------------------|------------------|--------------------------|----------|-----------|---------------|-----------------|-----------------|-----------------|-----------------|-----------|----------------|-------|------|--|--|--|--|
| Seq# 55 | | Line Name: LAU_A001 | NAVIGATION | DATE: 2009-02-09 | | | | | | | | | | | | | | | | |
| Line Brg: 11 ° | | LINE LOGS | | JULIAN DAY: 40 | | | | | | | | | | | | | | | | |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | | MGL0903 | | | | | | | | | | | | | | | | |
| DC SOL: 438.8 | DEPTH SOL: 2423.0m | NAVIGATION SYSTEM USED: C-Navy - Primary | | | | | | | | | | | | | | | | | | |
| DC EOL: 291.5m | DEPTH EOL: 2513.0m | NAVIGATION SYSTEM USED: SeaPath 200 | | | | | | | | | | | | | | | | | | |
| SMG SOL: 4.6 knots | FEATHER SOL: 1/3 " | NAVIGATION SYSTEM USED: Posnet | | | | | | | | | | | | | | | | | | |
| SMG EOL: 4.2 knots | FEATHER EOL: 1/3 " | GRAVITY METER: BMG-II | | | | | | | | | | | | | | | | | | |
| WEATHER | | MAGNETOMETER: GeoMetrics: | | | | | | | | | | | | | | | | | | |
| WIND SOL: 3.3 knots | MAX FEATHER: 1/3 " | MAG DEC USED : 13 | | | | | | | | | | | | | | | | | | |
| WIND EOL: 3 knots | | | | | | | | | | | | | | | | | | | | |
| SEAS SOL: 1.2 ft | 00:00 - 12:00 cat => | | | | | | | | | | | | | | | | | | | |
| SEAS EOL: 1.2 ft | 12:00 - 24:00 cat => Beeper, Assin | | | | | | | | | | | | | | | | | | | |
| SP | TIME/UTC | EVENT | COMMENTS | | | | | | | | | | | | | | | | | |
| 5502 | 05:24 | FSP | Start of line, first shot point | | | | | | | | | | | | | | | | | |
| 5502 | 05:24 | FOSP | First good shot point | | | | | | | | | | | | | | | | | |
| 5519 | 15:26 | LOSP | Last good shot point | | | | | | | | | | | | | | | | | |
| 5519 | 15:26 | LSP | End of line, last shot point | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">VESSEL POSITION</td> </tr> <tr> <td style="text-align: center;">SP</td> <td style="text-align: center;">Longitude (E)</td> </tr> <tr> <td style="text-align: center;">5502</td> <td style="text-align: center;">-178 26 33.169</td> </tr> <tr> <td style="text-align: center;">LSP</td> <td style="text-align: center;">-178 17 26.980</td> </tr> <tr> <td style="text-align: center;">5519</td> <td style="text-align: center;">-178 17 26.980</td> </tr> </table> | | | | | VESSEL POSITION | | SP | Longitude (E) | 5502 | -178 26 33.169 | LSP | -178 17 26.980 | 5519 | -178 17 26.980 | | | | | | |
| VESSEL POSITION | | | | | | | | | | | | | | | | | | | | |
| SP | Longitude (E) | | | | | | | | | | | | | | | | | | | |
| 5502 | -178 26 33.169 | | | | | | | | | | | | | | | | | | | |
| LSP | -178 17 26.980 | | | | | | | | | | | | | | | | | | | |
| 5519 | -178 17 26.980 | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">NAVIGATION OFFSET ADJUST</td> </tr> <tr> <td style="text-align: center;">NIP - COS</td> <td style="text-align: center;">-180</td> </tr> <tr> <td style="text-align: center;">NIP - CNG</td> <td style="text-align: center;">NA</td> </tr> <tr> <td style="text-align: center;">COS - CNG</td> <td style="text-align: center;">NA</td> </tr> <tr> <td style="text-align: center;">NIP - CMP</td> <td style="text-align: center;">NA</td> </tr> </table> | | | | | NAVIGATION OFFSET ADJUST | | NIP - COS | -180 | NIP - CNG | NA | COS - CNG | NA | NIP - CMP | NA | | | | | | |
| NAVIGATION OFFSET ADJUST | | | | | | | | | | | | | | | | | | | | |
| NIP - COS | -180 | | | | | | | | | | | | | | | | | | | |
| NIP - CNG | NA | | | | | | | | | | | | | | | | | | | |
| COS - CNG | NA | | | | | | | | | | | | | | | | | | | |
| NIP - CMP | NA | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">EL</td> <td colspan="2" style="text-align: center;">E2</td> </tr> <tr> <td style="text-align: center;">Lau_A001_0.p190</td> <td style="text-align: center;">Lau_A001_0.p204</td> <td style="text-align: center;">Lau_A001_0.p190</td> <td style="text-align: center;">Lau_A001_0.p204</td> </tr> </table> | | | | | EL | | E2 | | Lau_A001_0.p190 | Lau_A001_0.p204 | Lau_A001_0.p190 | Lau_A001_0.p204 | | | | | | | | |
| EL | | E2 | | | | | | | | | | | | | | | | | | |
| Lau_A001_0.p190 | Lau_A001_0.p204 | Lau_A001_0.p190 | Lau_A001_0.p204 | | | | | | | | | | | | | | | | | |
| No Streamer | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Length: LauPhase1</td> <td style="text-align: center;">source: Bin SCND001</td> <td style="text-align: center;">length: RTCN</td> </tr> <tr> <td style="text-align: center;">SP spool(s):</td> <td colspan="2" style="text-align: center;">475m</td> </tr> </table> | | Length: LauPhase1 | source: Bin SCND001 | length: RTCN | SP spool(s): | 475m | | | | | | | | | | | | | | |
| Length: LauPhase1 | source: Bin SCND001 | length: RTCN | | | | | | | | | | | | | | | | | | |
| SP spool(s): | 475m | | | | | | | | | | | | | | | | | | | |
| line status: | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Seq</td> <td style="text-align: center;">Line Name</td> <td style="text-align: center;">J Day</td> <td style="text-align: center;">DIR</td> <td style="text-align: center;">FGSP</td> <td style="text-align: center;">LGSP</td> <td style="text-align: center;">sp space</td> <td style="text-align: center;">comment</td> </tr> <tr> <td style="text-align: center;">095</td> <td style="text-align: center;">LAU_A001</td> <td style="text-align: center;">40</td> <td style="text-align: center;">11 °</td> <td style="text-align: center;">55022</td> <td style="text-align: center;">55196</td> <td style="text-align: center;">475m</td> <td></td> </tr> </table> | | Seq | Line Name | J Day | DIR | FGSP | LGSP | sp space | comment | 095 | LAU_A001 | 40 | 11 ° | 55022 | 55196 | 475m | | | | |
| Seq | Line Name | J Day | DIR | FGSP | LGSP | sp space | comment | | | | | | | | | | | | | |
| 095 | LAU_A001 | 40 | 11 ° | 55022 | 55196 | 475m | | | | | | | | | | | | | | |

| | | | | | |
|-------------------------------------|-------------|----------------------|---------------------------------|--|------------------|
| Line Name: LAU_A001A | | NAVIGATION | | DATE: 2009-02-09 | |
| Seq# 056 | | Line Brg: 165 ° | | JULIAN DAY: 40 | |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | | MGL0903 | |
| DC SOL: 430.1 | | DEPTH SOL: 2382.0m | | NAVIGATION SYSTEM USED: C-Navy - Primary | |
| DC EOL: 520.0m | | DEPTH EOL: 2603.0m | | NAVIGATION SYSTEM USED: SnpPath: 200 | |
| SMO SOL: 4.4 knots | | FEATHER SOL: 1/3 " | | NAVIGATION SYSTEM USED: Posnet | |
| SMO EOL: 4.2 knots | | FEATHER EOL: 1/3 " | | GRAVITY METER: BMG-R | |
| WEATHER | | MAX FEATHER: 1/3 " | | MAGNETOMETER: GeoMetrics: | |
| WIND SOL: 7 knots | | | | MAG DEC USED : 13 | |
| WIND EOL: 5 knots | | | | | |
| SEAS SOL: 1.2 ft | | 00:00 - 12:00 cat == | | | |
| SEAS EOL: 1.2 ft | | 12:00 - 24:00 cat == | | | |
| SP | (TIME/LONG) | EVENT | COMMENTS | VESSEL POSITION | |
| 58021 | 13:45 | FSP | Start of line, first shot point | SP | Latitude (N) |
| 58021 | 13:45 | FOSP | First good shot point | 58021 | 178° 15' 46.313" |
| 58055 | 13:26 | LOSP | Last good shot point | LSP | Longitude (E) |
| 58055 | 13:26 | LSP | End of line, last shot point | 58055 | 178° 20' 28.839" |
| | | | | NAVIGATION OFFSET ADJUSTED | |
| | | | | NIP - COS | -180 |
| | | | | NIP - CNO | NA |
| | | | | COS - CNO | NA |
| | | | | NIP - CWP | NA |
| | | | | General remarks: | |
| | | | | E1 | |
| | | | | Lau_A001A.0.p180 | |
| | | | | E2 | |
| | | | | Lau_A001A.0.p254 | |
| | | | | No Streamer | |
| | | | | Length: LauPhase1 source: Sns_SCND001 length: RTCN | |
| | | | | SP spaci: 475m | |
| | | | | line status: complete | |
| | | | | Line Name J Day DIR FOSP LOSP sp space comment | |
| | | | | 096 LAU_A001A 40 165 ° 58021 58055 475m | |

| Seq# 057 | | Line Name: LAU_A001B | NAVIGATION | DATE: 2009-02-09 |
|-------------------------------------|------------------------------------|--|----------------|------------------|
| Line Brg: 246 ° | | LINE LOGS | JULIAN DAY: 40 | |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | MGL0903 | |
| DC SOL: 81.8 m | DEPTH SOL: 2910.3m | NAVIGATION SYSTEM USED: C-Navy - Primary | | |
| DC EOL: 4.3m | DEPTH EOL: 2941.6m | NAVIGATION SYSTEM USED: SVPPath: 200 | | |
| SMG SOL: 4.3 knots | FEATHER SOL: 1/3 " | NAVIGATION SYSTEM USED: Posnet | | |
| SMG EOL: 4.1 knots | FEATHER EOL: 1/3 " | GRAVITY METER: BMG-R | | |
| WEATHER | | MAGNETOMETER: GeoMetrics: | | |
| WIND SOL: 1 knots | | MAG DEC USED : 13 | | |
| WIND EOL: 0.7 knots | | | | |
| SEAS SOL: 1.2 ft | 00:00 - 12:00 cat => | | | |
| SEAS EOL: 2.4 ft | 12:00 - 24:00 cat => Austin, Entry | | | |

| SP | TIME/UTC | EVENT | COMMENTS | VESSEL POSITION | | |
|---|----------|----------------|---------------------------------|--------------------------|---------------------|------------------|
| 5702 | 19:33 | FSP | Start of line, first shot point | SP | Latitude (N) | Longitude (E) |
| 5703 | 19:33 | FOSP | First good shot point | 5703 | -20° 26' 48.632" | 178° 11' 24.863" |
| 5704 | 21:51 | LOSP | Last good shot point | 5704 | -20° 26' 53.443" | 178° 21' 40.142" |
| 5705 | 21:51 | LSP | End of line, last shot point | | | |
| | | | | NAVIGATION OFFSET ADJUST | | |
| | | | | NIP - COS | | -180 |
| | | | | NIP - CNG | | NA |
| | | | | COS - CNG | | NA |
| | | | | NIP - CMT | | NA |
| General remarks: | | | | | | |
| E1 E2 Lau_A001B.0.p150 Lau_A001B.0.p254 <div style="border: 1px solid black; padding: 2px; display: inline-block;">No Streamer</div> | | | | | | |
| Formal Description & Remarks good, none, comments: | | | | Length: LauPhase1 | source: Bin SCND001 | length: RTCN |
| Testlog #1 | n/a | Scan string #1 | bad | SP status: | 475m | completed |
| Testlog #2 | n/a | Scan string #2 | bad | | | |
| Testlog #3 | n/a | Scan string #3 | good | | | |
| Testlog #4 | n/a | Scan string #4 | good | | | |

Seq 057 Line Name LAU_A001B J Day 40 DIR 11 ° FGSP 5702 LGSP 5704 SP space 475m comment

| | | | | |
|--|--|--|---------------------------------|------------------|
| Seq# 058 | | Line Name: LAU_B001 | NAVIGATION | DATE: 2009-02-12 |
| | | Line Brg: 11 ° | LINE LOGS | JULIAN DAY: 43 |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | | MGL0903 |
| DC SOL: -7.2 DC EOL: -207.2m SMG SOL: 3.0 knots SMG EOL: 4.5 knots | DEPTH SOL: 2281.0m DEPTH EOL: 2162.0m FEATHER SOL: n/a * FEATHER EOL: n/a * MAX FEATHER: n/a * | NAVIGATION SYSTEM USED: C-Nav - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Posnet GRAVITY METER: BMG-3 MAGNETOMETER: GeoMetrics G-882 MAG DEC USED: 13 | | |
| WEATHER | | | | |
| WIND SOL: 5.5 knots WIND EOL: 3.3 knots SEAS SOL: 00:00 - 12:00 cst =: SEAS EOL: 12:00 - 24:00 cst =: | | | | |
| SP | TIME(utc) | EVENT | COMMENTS | |
| 58014 | 23:49 | FSP | Start of line; first shot point | |
| 58014 | 23:49 | FGSP | First good shot point | |
| 58143 | 07:33 | LQSP | Last good shot point | |
| 58149 | 07:56 | LSP | End of line; last shot point | |
| VESEL POSITION | | | | |
| | | SP | Latitude (N) | Longitude (E) |
| FSP | 58014 | -20° 37' 53.520" | -175° 58' 40.380" | |
| LSP | 58149 | -20° 02' 02.538" | -175° 51' 00.095" | |
| NAVIGATION OFFSET APPLIED | | | | |
| NRP - COS | | | | -160 |
| NRP - CNG | | | | n/a |
| COS - CNG | | | | n/a |
| NRP - CMP | | | | n/a |
| General remarks: | | | | |
| <p>P1 P2</p> <p>Lau_B001.d.p190 Lau_B001.d.p294</p> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 10px auto;">No Streamer</div> | | | | |
| Posnet locations & remarks: good - none - intermittent | | Acoustic remarks: | | |
| Tailbuoy #1 | n/a | Gun string #1 | good | |
| Tailbuoy #2 | n/a | Gun string #2 | bad | |
| Tailbuoy #3 | n/a | Gun string #3 | good | |
| Tailbuoy #4 | n/a | Gun string #4 | good | |
| Langseth: LauPhas | | source: Bm.SCN(001) | | langseth:RTCN |
| SP spacing: | | 500m | | |
| line status: | | | | |

| | | | | | |
|-----|-----------|--------|------|-------|-------|
| Seq | Line Name | J- Day | DIR | FGSP | LGSP |
| 058 | LAU_B001 | 43 | 11 ° | 58014 | 58143 |

| | | | | |
|--|--|---|---------------------------------|------------------|
| Seq# 060 | | Line Name: LAU_B002 | NAVIGATION | DATE: 2009-02-13 |
| | | Line Brg: 191 ° | LINE LOGS | JULIAN DAY: 44 |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | MGL0903 | |
| DC SOL: 7.2m DC EOL: 277.0m SMG SOL: 4.5 knots SMG EOL: 4.5 knots | DEPTH SOL: 2331.0m DEPTH EOL: 2008.0m FEATHER SOL: n/a * FEATHER EOL: n/a * MAX FEATHER: n/a * | NAVIGATION SYSTEM USED: C-Nav - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Posnet GRAVITY METER: BMG-3 MAGNETOMETER: GeoMetrics G-882 MAG DEC USED : 13 | | |
| WEATHER | | | | |
| WIND SOL: 8.9 knots WIND EOL: 11 knots SEAS SOL: 2-4 ft SEAS EOL: 2-4 ft | | | | |
| 00:00 - 12:00 cst =: 12:00 - 24:00 cst =: Regan Austin, Jonathan Steeper | | | | |
| SP | TIME(utc) | EVENT | COMMENTS | |
| 60027 | 08:37 | FSP | Start of line; first shot point | |
| 60043 | 09:34 | FGSP | First good shot point | |
| 60179 | 17:47 | LGSP | Last good shot point | |
| 60179 | 17:47 | LSP | End of line; last shot point | |
| VESEL POSITION | | | | |
| | SP | Latitude (N) | Longitude (E) | |
| FSP | 60027 | -20° 02' 56.652" | -175° 52' 50.431" | |
| LSP | 60179 | -20° 43' 15.831" | -176° 01' 45.902" | |
| NAVIGATION OFFSET APPLIED | | | | |
| NRP - COS | | | -160 | |
| NRP - CNG | | | n/a | |
| COS - CNG | | | n/a | |
| NRP - CMP | | | n/a | |
| General remarks: | | | | |
| <p>P1 P2 Lau_B002.0.p190 Lau_B002.0.p294</p> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 10px auto;">No Streamer</div> | | | | |
| Posnet locations & remarks: good - none - intermittent | | Acoustic remarks: | | |
| Tailbuoy #1 | n/a | Gun string #1 | good | |
| Tailbuoy #2 | n/a | Gun string #2 | bad | |
| Tailbuoy #3 | n/a | Gun string #3 | good | |
| Tailbuoy #4 | n/a | Gun string #4 | good | |
| line status: | | Langseth: LauPhas source: Bm.SCN(001) langseth.RTCN | | |
| | | SP spacing: 500m | | |

| | | | | | |
|-----|-----------|--------|-------|-------|-------|
| Seq | Line Name | J- Day | DIR | FGSP | LGSP |
| 060 | LAU_B002 | 44 | 191 ° | 60043 | 60179 |

| | | | | |
|--|--|---|---------------------------------|------------------|
| Seq# 061 | | Line Name: LAU_B002A | NAVIGATION | DATE: 2009-02-13 |
| Line Brg: 281 ° | | LINE LOGS | JULIAN DAY: 44 | |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | MGL0903 | |
| DC SOL: 423.2m DC EOL: 119.8m SMG SOL: 4.5 knots SMG EOL: 4.5 knots | DEPTH SOL: 1998.0m DEPTH EOL: 2344.0m FEATHER SOL: n/a * FEATHER EOL: n/a * MAX FEATHER: n/a * | NAVIGATION SYSTEM USED: C-Nav - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Posnet GRAVITY METER: BMG-3 MAGNETOMETER: GeoMetrics G-882 MAG DEC USED : 13 | | |
| WEATHER | | | | |
| WIND SOL: 12 knots WIND EOL: 11 knots SEAS SOL: 2-4 ft SEAS EOL: 2-4 ft | | | | |
| 00:00 - 12:00 cst =: 12:00 - 24:00 cst =: Jonathan Stepper | | | | |
| SP | TIME(utc) | EVENT | COMMENTS | |
| 61022 | 17:49 | FSP | Start of line; first shot point | |
| 61022 | 17:49 | FGSP | First good shot point | |
| 61027 | 18:08 | LGSP | Last good shot point | |
| 61027 | 18:08 | LSP | End of line; last shot point | |
| VESEL POSITION | | | | |
| | SP | Latitude (N) | Longitude (E) | |
| FSP | 61022 | -20° 43' 15.831" | -176° 01' 45.902" | |
| LSP | 61027 | -20° 43' 16.008" | -176° 03' 22.041" | |
| NAVIGATION OFFSET APPLIED | | | | |
| NRP - COS | | | | -160 |
| NRP - CNG | | | | n/a |
| COS - CNG | | | | n/a |
| NRP - CMP | | | | n/a |
| General remarks: | | | | |
| <p>P1 P2 Lau_B002A.0.p190 Lau_B002A.0.p294</p> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 10px auto;">No Streamer</div> | | | | |
| Posnet locations & remarks: good - none - intermittent | | Acoustic remarks: | | |
| Tailbuoy #1 | n/a | Gun string #1 | good | |
| Tailbuoy #2 | n/a | Gun string #2 | bad | |
| Tailbuoy #3 | n/a | Gun string #3 | good | |
| Tailbuoy #4 | n/a | Gun string #4 | good | |
| line status: | | Langseih: LauPhas source: Bm.SCN(001) langseih.RTCN | | |
| | | SP spacing: 500m | | |

| | | | | | |
|-----|-----------|--------|-------|-------|-------|
| Seq | Line Name | J- Day | DIR | FGSP | LGSP |
| 061 | LAU_B002A | 44 | 281 ° | 61022 | 61027 |

| | | | | |
|---|--|---|---------------------------------|------------------|
| Seq# 062 | | Line Name: LAU_B003 | NAVIGATION | DATE: 2009-02-13 |
| Line Brg: 11 ° | | LINE LOGS | JULIAN DAY: 44 | |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | MGL0903 | |
| DC SOL: 119.8m DC EOL: -6.5m SMG SOL: 4.5 knots SMG EOL: 4.6 knots | DEPTH SOL: 2343.0m DEPTH EOL: 2164.0m FEATHER SOL: n/a * FEATHER EOL: n/a * MAX FEATHER: n/a * | NAVIGATION SYSTEM USED: C-Nav - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Posnet GRAVITY METER: BMG-3 MAGNETOMETER: GeoMetrics G-882 MAG DEC USED : 13 | | |
| WEATHER | | | | |
| WIND SOL: 12 knots WIND EOL: 9.1 knots SEAS SOL: 2-4 ft SEAS EOL: | | | | |
| 00:00 - 12:00 est =: 12:00 - 24:00 est =: Jonathan Steeper | | | | |
| SP | TIME(utc) | EVENT | COMMENTS | |
| 62022 | 18:13 | FSP | Start of line; first shot point | |
| 62022 | 18:13 | FGSP | First good shot point | |
| 62160 | 02:31 | LGSP | Last good shot point | |
| 62160 | 02:31 | LSP | End of line; last shot point | |
| VESSEL POSITION | | | | |
| | | SP | Latitude (N) | Longitude (E) |
| FSP | 62022 | -20° 43' 16.008" | -176° 03' 22.041" | |
| LSP | 62160 | -20° 06' 19.270" | -175° 55' 55.831" | |
| NAVIGATION OFFSET APPLIED | | | | |
| NRP - COS | | | | -160 |
| NRP - CNG | | | | n/a |
| COS - CNG | | | | n/a |
| NRP - CMP | | | | n/a |
| General remarks: | | | | |
| <p>P1 P2 Lau_B003.0.p190 Lau_B003.0.p294</p> <div style="border: 1px solid black; padding: 5px; display: inline-block;">No Streamer</div> | | | | |
| Posnet locations & remarks: good - none - intermittent | | Acoustic remarks: | | |
| Tailbuoy #1 | n/a | Gun string #1 | good | |
| Tailbuoy #2 | n/a | Gun string #2 | bad | |
| Tailbuoy #3 | n/a | Gun string #3 | good | |
| Tailbuoy #4 | n/a | Gun string #4 | good | |
| Langsech: LauPhas | | source: Bm.SCN(001) | | langsech:RTCN |
| SP spacing: | | 500m | | |
| line status: | | | | |

| | | | | | |
|-----|-----------|--------|------|-------|-------|
| Seq | Line Name | J- Day | DIR | FGSP | LGSP |
| 062 | LAU_B003 | 44 | 11 ° | 62022 | 62160 |

| | | | | |
|--|--|---|---------------------------------|------------------|
| Seq# 063 | | Line Name: LAU_B004 | NAVIGATION | DATE: 2009-02-14 |
| Line Brg: 191 ° | | LINE LOGS | JULIAN DAY: 45 | |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | MGL0903 | |
| DC SOL: -305.2m DC EOL: 215.7m SMG SOL: 4.1 knots SMG EOL: 4.4 knots | DEPTH SOL: 2211.1m DEPTH EOL: 2524.0m FEATHER SOL: n/a * FEATHER EOL: n/a * MAX FEATHER: n/a * | NAVIGATION SYSTEM USED: C-Nav - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Posnet GRAVITY METER: BMG-3 MAGNETOMETER: GeoMetrics G-882 MAG DEC USED : 13 | | |
| WEATHER | | | | |
| WIND SOL: 12.0 knots WIND EOL: 9 knots SEAS SOL: 1-2 ft SEAS EOL: 1-2 ft | | | | |
| 00:00 - 12:00 cst =: 12:00 - 24:00 cst =: Jonathan Steeper | | | | |
| SP | TIME(utc) | EVENT | COMMENTS | |
| 63016 | 03:12 | FSP | Start of line; first shot point | |
| 63016 | 03:12 | FGSP | First good shot point | |
| 63159 | 11:48 | LGSP | Last good shot point | |
| 63159 | 11:48 | LSP | End of line; last shot point | |
| VESEL POSITION | | | | |
| | | SP | Latitude (N) | Longitude (E) |
| FSP | 63016 | -20° 04' 35.441" | -175° 57' 08.290" | |
| LSP | 63159 | -20° 42' 29.766" | -176° 05' 40.759" | |
| NAVIGATION OFFSET APPLIED | | | | |
| NRP - COS | | | | -160 |
| NRP - CNG | | | | n/a |
| COS - CNG | | | | n/a |
| NRP - CMP | | | | n/a |
| General remarks: | | | | |
| <p>P1 P2 Lau_B004.0.p190 Lau_B004.0.p294</p> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 10px auto;">No Streamer</div> | | | | |
| Posnet locations & remarks: good - none - intermittent | | Acoustic remarks: | | |
| Tailbuoy #1 | n/a | Gun string #1 | good | |
| Tailbuoy #2 | n/a | Gun string #2 | bad | |
| Tailbuoy #3 | n/a | Gun string #3 | good | |
| Tailbuoy #4 | n/a | Gun string #4 | good | |
| Langseth: LauPhas | | source: Bm.SCN(001) | | langseth: RTCN |
| SP spacing: | | 500m | | |
| line status: | | | | |

| | | | | | |
|-----|-----------|--------|-------|-------|-------|
| Seq | Line Name | J- Day | DIR | FGSP | LGSP |
| 063 | LAU_B004 | 45 | 191 ° | 63016 | 63159 |

| Seq# 064 | | Line Name: LAU_B004A | NAVIGATION | DATE: 2009-02-14 | | | | | | | | | | | | | | | | | | | | |
|--|---------------------------------------|---|---------------------------------|------------------|---------------------------|--|--|--|-----------|--------------|---------------|------|-----------|-------|------------------|-------------------|-----------|-------|------------------|-------------------|-----------|-------|-------|-----|
| | | Line Brg: 281 ° | LINE LOGS | JULIAN DAY: 45 | | | | | | | | | | | | | | | | | | | | |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | | MGL0903 | | | | | | | | | | | | | | | | | | | | |
| DC SOL: 375.7m | DEPTH SOL: 2527.0m | NAVIGATION SYSTEM USED: C-Nav - Primary | | | | | | | | | | | | | | | | | | | | | | |
| DC EOL: 365.9m | DEPTH EOL: 2534.0m | NAVIGATION SYSTEM USED: SeaPath 200 | | | | | | | | | | | | | | | | | | | | | | |
| SMG SOL: 4.4 knots | FEATHER SOL: n/a * | NAVIGATION SYSTEM USED: Posnet | | | | | | | | | | | | | | | | | | | | | | |
| SMG EOL: 4.5 knots | FEATHER EOL: n/a * | GRAVITY METER: BMG-3 | | | | | | | | | | | | | | | | | | | | | | |
| WEATHER | | MAGNETOMETER: GeoMetrics G-882 | | | | | | | | | | | | | | | | | | | | | | |
| WIND SOL: 9 knots | MAX FEATHER: n/a * | MAG DEC USED : 13 | | | | | | | | | | | | | | | | | | | | | | |
| WIND EOL: 11 knots | | | | | | | | | | | | | | | | | | | | | | | | |
| SEAS SOL: 1-2 ft | 00:00 - 12:00 cst =: | | | | | | | | | | | | | | | | | | | | | | | |
| SEAS EOL: 1-2 ft | 12:00 - 24:00 cst =: Jonathan Steeper | | | | | | | | | | | | | | | | | | | | | | | |
| SP | TIME(utc) | EVENT | COMMENTS | | | | | | | | | | | | | | | | | | | | | |
| 64022 | 11:51 | FSP | Start of line; first shot point | | | | | | | | | | | | | | | | | | | | | |
| 64022 | 11:51 | FGSP | First good shot point | | | | | | | | | | | | | | | | | | | | | |
| 64026 | 12:07 | LGSP | Last good shot point | | | | | | | | | | | | | | | | | | | | | |
| 64026 | 12:07 | LSP | End of line; last shot point | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">VESSEL POSITION</th> </tr> <tr> <th>SP</th> <th>Latitude (N)</th> <th colspan="2">Longitude (E)</th> </tr> </thead> <tbody> <tr> <td>FSP</td> <td>64022</td> <td>-20° 42' 38.802"</td> <td>-176° 05' 52.793"</td> </tr> <tr> <td>LSP</td> <td>64026</td> <td>-20° 42' 26.213"</td> <td>-176° 07' 00.593"</td> </tr> </tbody> </table> | | | VESSEL POSITION | | | | SP | Latitude (N) | Longitude (E) | | FSP | 64022 | -20° 42' 38.802" | -176° 05' 52.793" | LSP | 64026 | -20° 42' 26.213" | -176° 07' 00.593" | | | | |
| VESSEL POSITION | | | | | | | | | | | | | | | | | | | | | | | | |
| SP | Latitude (N) | Longitude (E) | | | | | | | | | | | | | | | | | | | | | | |
| FSP | 64022 | -20° 42' 38.802" | -176° 05' 52.793" | | | | | | | | | | | | | | | | | | | | | |
| LSP | 64026 | -20° 42' 26.213" | -176° 07' 00.593" | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">NAVIGATION OFFSET APPLIED</th> </tr> </thead> <tbody> <tr> <td>NRP - COS</td> <td>_____</td> <td>_____</td> <td>-160</td> </tr> <tr> <td>NRP - CNG</td> <td>_____</td> <td>_____</td> <td>n/a</td> </tr> <tr> <td>COS - CNG</td> <td>_____</td> <td>_____</td> <td>n/a</td> </tr> <tr> <td>NRP - CMP</td> <td>_____</td> <td>_____</td> <td>n/a</td> </tr> </tbody> </table> | | | NAVIGATION OFFSET APPLIED | | | | NRP - COS | _____ | _____ | -160 | NRP - CNG | _____ | _____ | n/a | COS - CNG | _____ | _____ | n/a | NRP - CMP | _____ | _____ | n/a |
| NAVIGATION OFFSET APPLIED | | | | | | | | | | | | | | | | | | | | | | | | |
| NRP - COS | _____ | _____ | -160 | | | | | | | | | | | | | | | | | | | | | |
| NRP - CNG | _____ | _____ | n/a | | | | | | | | | | | | | | | | | | | | | |
| COS - CNG | _____ | _____ | n/a | | | | | | | | | | | | | | | | | | | | | |
| NRP - CMP | _____ | _____ | n/a | | | | | | | | | | | | | | | | | | | | | |
| | | <p>General remarks:</p> <div style="border: 1px solid black; padding: 10px; text-align: center; margin: 10px auto; width: 80%;"> <p>P1 P2</p> <p>Lau_B004A.0.p190 Lau_B004A.0.p294</p> <p>No Streamer</p> </div> | | | | | | | | | | | | | | | | | | | | | | |
| Posnet locations & remarks: good - none - intermittent | | Acoustic remarks: | | | | | | | | | | | | | | | | | | | | | | |
| Tailbuoy #1 | n/a | Gun string #1 | good | | | | | | | | | | | | | | | | | | | | | |
| Tailbuoy #2 | n/a | Gun string #2 | bad | | | | | | | | | | | | | | | | | | | | | |
| Tailbuoy #3 | n/a | Gun string #3 | good | | | | | | | | | | | | | | | | | | | | | |
| Tailbuoy #4 | n/a | Gun string #4 | good | | | | | | | | | | | | | | | | | | | | | |
| | | <p>Langseth: LauPhas source: Bm.SCN(001) langseth.RTCN</p> <p>SP spacing: 500m</p> <p>line status:</p> | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | |
|-----|-----------|--------|-------|-------|-------|
| Seq | Line Name | J- Day | DIR | FGSP | LGSP |
| 064 | LAU_B004A | 45 | 281 ° | 64022 | 64026 |

| | | | | |
|---|--|---|---------------------------------|------------------|
| Seq# 065 | | Line Name: LAU_B005 | NAVIGATION | DATE: 2009-02-14 |
| Line Brg: 11 ° | | LINE LOGS | JULIAN DAY: 45 | |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | MGL0903 | |
| DC SOL: 75.7m DC EOL: -236.7m SMG SOL: 4.3 knots SMG EOL: 4.3 knots | DEPTH SOL: 2532.0m DEPTH EOL: 2554.0m FEATHER SOL: n/a * FEATHER EOL: n/a * MAX FEATHER: n/a * | NAVIGATION SYSTEM USED: C-Nav - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Posnet GRAVITY METER: BMG-3 MAGNETOMETER: GeoMetrics G-882 MAG DEC USED : 13 | | |
| WEATHER | | | | |
| WIND SOL: 11 knots WIND EOL: 10 knots SEAS SOL: 1-2 ft SEAS EOL: 1-2 ft | | | | |
| 00:00 - 12:00 cst =: 12:00 - 24:00 cst =: Jonathan Steeper | | | | |
| SP | TIME(utc) | EVENT | COMMENTS | |
| 65023 | 12:13 | FSP | Start of line; first shot point | |
| 65023 | 12:13 | FGSP | First good shot point | |
| 65179 | 21:35 | LQSP | Last good shot point | |
| 65179 | 21:35 | LSP | End of line; last shot point | |
| VESEL POSITION | | | | |
| | | SP | Latitude (N) | Longitude (E) |
| FSP | 65023 | -20° 42' 03.280" | -176° 07' 10.578" | |
| LSP | 65179 | -20° 00' 36.517" | -175° 58' 21.193" | |
| NAVIGATION OFFSET APPLIED | | | | |
| NRP - COS | | | | -160 |
| NRP - CNG | | | | n/a |
| COS - CNG | | | | n/a |
| NRP - CMP | | | | n/a |
| General remarks: | | | | |
| <p>P1 P2</p> <p>Lau_B005.0.p190 Lau_B005.0.p294</p> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 10px 0;">No Streamer</div> | | | | |
| Posnet locations & remarks: good - none - intermittent | | Acoustic remarks: | | |
| Tailbuoy #1 | n/a | Gun string #1 | good | |
| Tailbuoy #2 | n/a | Gun string #2 | bad | |
| Tailbuoy #3 | n/a | Gun string #3 | good | |
| Tailbuoy #4 | n/a | Gun string #4 | good | |
| Langseih: LauPhas | | source: Bm.SCN(001) | | langseih.RTCN |
| SP spacine: | | 500m | | |
| line status: | | | | |

| | | | | | |
|-----|-----------|--------|------|-------|------|
| Seq | Line Name | J- Day | DIR | FGSP | LGSP |
| 065 | LAU_B005 | 45 | 11 ° | 65023 | |

| Seq# 066 | | Line Name: LAU_B005A | NAVIGATION | DATE: 2009-02-14 | | | | | | | | | | | | | | | | | | | | |
|---|-----------------------------------|---|---------------------------------|------------------|---------------------------|---------------------|----------------|------------------|-----------|--------------|---------------------|------|-----------|-------|------------------|-------------------|-----------|-------|------------------|-------------------|-----------|-------|-------|-----|
| Line Brg: 281 ° | | LINE LOGS | JULIAN DAY: 45 | | | | | | | | | | | | | | | | | | | | | |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | | MGL0903 | | | | | | | | | | | | | | | | | | | | |
| DC SOL: -371.8m | DEPTH SOL: 2560.0m | NAVIGATION SYSTEM USED: C-Nav - Primary | | | | | | | | | | | | | | | | | | | | | | |
| DC EOL: -366.9m | DEPTH EOL: 2617.0m | NAVIGATION SYSTEM USED: SeaPath 200 | | | | | | | | | | | | | | | | | | | | | | |
| SMG SOL: 4.2 knots | FEATHER SOL: n/a * | NAVIGATION SYSTEM USED: Posnet | | | | | | | | | | | | | | | | | | | | | | |
| SMG EOL: 4 knots | FEATHER EOL: n/a * | GRAVITY METER: BMG-3 | | | | | | | | | | | | | | | | | | | | | | |
| | MAX FEATHER: n/a * | MAGNETOMETER: GeoMetrics G-882 | | | | | | | | | | | | | | | | | | | | | | |
| WEATHER | | MAG DEC USED : 13 | | | | | | | | | | | | | | | | | | | | | | |
| WIND SOL: 11 knots | | | | | | | | | | | | | | | | | | | | | | | | |
| WIND EOL: 10 knots | | | | | | | | | | | | | | | | | | | | | | | | |
| SEAS SOL: 1-2ft | 00:00 - 12:00 est =: | | | | | | | | | | | | | | | | | | | | | | | |
| SEAS EOL: 1-2 ft | 12:00 - 24:00 est =: Regan Austin | | | | | | | | | | | | | | | | | | | | | | | |
| SP | TIME(utc) | EVENT | COMMENTS | | | | | | | | | | | | | | | | | | | | | |
| 66022 | 21:38 | FSP | Start of line; first shot point | | | | | | | | | | | | | | | | | | | | | |
| 66022 | 21:38 | FGSP | First good shot point | | | | | | | | | | | | | | | | | | | | | |
| 66026 | 21:55 | LQSP | Last good shot point | | | | | | | | | | | | | | | | | | | | | |
| 66026 | 21:55 | LSP | End of line; last shot point | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">VESSEL POSITION</th> </tr> <tr> <th>SP</th> <th>Latitude (N)</th> <th colspan="2">Longitude (E)</th> </tr> </thead> <tbody> <tr> <td>FSP</td> <td>66022</td> <td>-20° 00' 25.116"</td> <td>-175° 58' 27.916"</td> </tr> <tr> <td>LSP</td> <td>66026</td> <td>-20° 00' 12.112"</td> <td>-175° 59' 35.337"</td> </tr> </tbody> </table> | | | VESSEL POSITION | | | | SP | Latitude (N) | Longitude (E) | | FSP | 66022 | -20° 00' 25.116" | -175° 58' 27.916" | LSP | 66026 | -20° 00' 12.112" | -175° 59' 35.337" | | | | |
| VESSEL POSITION | | | | | | | | | | | | | | | | | | | | | | | | |
| SP | Latitude (N) | Longitude (E) | | | | | | | | | | | | | | | | | | | | | | |
| FSP | 66022 | -20° 00' 25.116" | -175° 58' 27.916" | | | | | | | | | | | | | | | | | | | | | |
| LSP | 66026 | -20° 00' 12.112" | -175° 59' 35.337" | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">NAVIGATION OFFSET APPLIED</th> </tr> </thead> <tbody> <tr> <td>NRP - COS</td> <td>_____</td> <td>_____</td> <td>-160</td> </tr> <tr> <td>NRP - CNG</td> <td>_____</td> <td>_____</td> <td>n/a</td> </tr> <tr> <td>COS - CNG</td> <td>_____</td> <td>_____</td> <td>n/a</td> </tr> <tr> <td>NRP - CMP</td> <td>_____</td> <td>_____</td> <td>n/a</td> </tr> </tbody> </table> | | | NAVIGATION OFFSET APPLIED | | | | NRP - COS | _____ | _____ | -160 | NRP - CNG | _____ | _____ | n/a | COS - CNG | _____ | _____ | n/a | NRP - CMP | _____ | _____ | n/a |
| NAVIGATION OFFSET APPLIED | | | | | | | | | | | | | | | | | | | | | | | | |
| NRP - COS | _____ | _____ | -160 | | | | | | | | | | | | | | | | | | | | | |
| NRP - CNG | _____ | _____ | n/a | | | | | | | | | | | | | | | | | | | | | |
| COS - CNG | _____ | _____ | n/a | | | | | | | | | | | | | | | | | | | | | |
| NRP - CMP | _____ | _____ | n/a | | | | | | | | | | | | | | | | | | | | | |
| | | <p>General remarks:</p> <div style="border: 1px solid black; padding: 10px; text-align: center; margin: 10px auto; width: 80%;"> <p>P1 P2</p> <p>Lau_B005.0.p190 Lau_B005.0.p294</p> <p>No Streamer</p> </div> | | | | | | | | | | | | | | | | | | | | | | |
| Posnet locations & remarks: good - none - intermittent | | Acoustic remarks: | | | | | | | | | | | | | | | | | | | | | | |
| Tailbuoy #1 | n/a | Gun string #1 | good | | | | | | | | | | | | | | | | | | | | | |
| Tailbuoy #2 | n/a | Gun string #2 | bad | | | | | | | | | | | | | | | | | | | | | |
| Tailbuoy #3 | n/a | Gun string #3 | good | | | | | | | | | | | | | | | | | | | | | |
| Tailbuoy #4 | n/a | Gun string #4 | good | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Langseth: LauPhas</td> <td>source: Bm.SCN(001)</td> <td>langseth: RTCN</td> </tr> <tr> <td colspan="3">SP spacing: 500m</td> </tr> <tr> <td colspan="3">line status:</td> </tr> </table> | | | Langseth: LauPhas | source: Bm.SCN(001) | langseth: RTCN | SP spacing: 500m | | | line status: | | | | | | | | | | | | | |
| Langseth: LauPhas | source: Bm.SCN(001) | langseth: RTCN | | | | | | | | | | | | | | | | | | | | | | |
| SP spacing: 500m | | | | | | | | | | | | | | | | | | | | | | | | |
| line status: | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | |
|-----|-----------|--------|------|-------|------|
| Seq | Line Name | J- Day | DIR | FGSP | LGSP |
| 066 | LAU_B005A | 45 | 11 ° | 66023 | |

| | | | | |
|--|--|---|---|------------------|
| Seq# 067 | | Line Name: LAU_B006 | NAVIGATION | DATE: 2009-02-14 |
| Line Brg: 191 ° | | LINE LOGS | JULIAN DAY: 45 | |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | MGL0903 | |
| DC SOL: 381.1m DC EOL: 305.7m SMG SOL: 4.3 knots WEATHER WIND SOL: 10 knots WIND EOL: 6.7 knots SEAS SOL: 1-2 ft SEAS EOL: | DEPTH SOL: 2621.0m DEPTH EOL: 2324.0m FEATHER SOL: n/a * FEATHER EOL: n/a * MAX FEATHER: n/a * | NAVIGATION SYSTEM USED: C-Nav - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Posnet GRAVITY METER: BMG-3 MAGNETOMETER: GeoMetrics G-882 MAG DEC USED : 13 | | |
| 00:00 - 12:00 cst =: 12:00 - 24:00 cst =: Jonathan Stepper | | | | |
| SP | TIME(utc) | EVENT | COMMENTS | |
| 67022 | 21:57 | FSP | Start of line; first shot point | |
| 67022 | 21:57 | FCSP | First good shot point | |
| 67180 | 07:25 | LGSP | Last good shot point | |
| 67180 | 07:25 | LCSP | Last charted shot point | |
| 67182 | 07:32 | | Knocked out string 3 and 4 acoustics and GPS for recovery | |
| 67186 | 07:48 | LSP | End of line; last shot point | |
| | | | | VESSEL POSITION |
| | | SP | Latitude (N) | Longitude (E) |
| FSP | 67022 | -20° 00' 15.513" | -175° 59' 40.808" | |
| LSP | 67186 | -20° 43' 43.178" | -176° 09' 31.734" | |
| | | NAVIGATION OFFSET APPLIED | | |
| | | NRP - COS | | -160 |
| | | NRP - CNG | | n/a |
| | | COS - CNG | | n/a |
| | | NRP - CMP | | n/a |
| General remarks: | | | | |
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> <p style="text-align: center;">P1 P2 Lau_B006.0.p190 Lau_B006.0.p294</p> <p style="text-align: center; background-color: black; color: white; padding: 2px 10px;">No Streamer</p> </div> | | | | |
| Posnet locations & remarks: good - none - intermittent | | Acoustic remarks: | | |
| Tailbuoy #1 | n/a | Gun string #1 | good | |
| Tailbuoy #2 | n/a | Gun string #2 | bad | |
| Tailbuoy #3 | n/a | Gun string #3 | good | |
| Tailbuoy #4 | n/a | Gun string #4 | good | |
| Langseih: LauPhas | | source: Bm.SCN(001) | | langseih.RTCN |
| SP spacing: | | 500m | | |
| line status: | | | | |

| | | | | | |
|-----|-----------|--------|-------|-------|-------|
| Seq | Line Name | J- Day | DIR | FGSP | LGSP |
| 067 | LAU_B006 | 45 | 191 ° | 67022 | 67180 |

| | | | | |
|---|--|---|---------------------------------|------------------|
| Seq# 069 | | Line Name: LAU_B007 | NAVIGATION | DATE: 2009-02-15 |
| Line Brg: 11 ° | | LINE LOGS | JULIAN DAY: 46 | |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | MGL0903 | |
| DC SOL: 13.4m DC EOL: 177.9m SMG SOL: 3.0 knots SMG EOL: 4.6 knots | DEPTH SOL: 2194.8m DEPTH EOL: 2663.0m FEATHER SOL: n/a * FEATHER EOL: n/a * MAX FEATHER: n/a * | NAVIGATION SYSTEM USED: C-Nav - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Posnet GRAVITY METER: BMG-3 MAGNETOMETER: GeoMetrics G-882 MAG DEC USED : 13 | | |
| WEATHER | | | | |
| WIND SOL: 6.5 knots WIND EOL: 12 knots SEAS SOL: 1-2 ft SEAS EOL: 1-2 ft | | | | |
| 00:00 - 12:00 est =: 12:00 - 24:00 est =: Regan Austin | | | | |
| SP | TIME(utc) | EVENT | COMMENTS | |
| 69020 | 08:37 | FSP | Start of line; first shot point | |
| 69026 | 09:02 | FGSP | First good shot point | |
| 69180 | 18:17 | LGSP | Last good shot point | |
| 69180 | 18:17 | LSP | End of line; last shot point | |
| VESEL POSITION | | | | |
| | | SP | Latitude (N) | Longitude (E) |
| FSP | 69020 | -20° 42' 05.455" | -176° 11' 20.326" | |
| LSP | 69180 | -19° 59' 38.075" | -176° 02' 01.185" | |
| NAVIGATION OFFSET APPLIED | | | | |
| NRP - COS | | | | -160 |
| NRP - CNG | | | | n/a |
| COS - CNG | | | | n/a |
| NRP - CMP | | | | n/a |
| General remarks: | | | | |
| <p>P1 P2 Lau_B007.0.p190 Lau_B007.0.p294</p> <div style="border: 1px solid black; padding: 5px; display: inline-block;">No Streamer</div> | | | | |
| Posnet locations & remarks: good - none - intermittent | | Acoustic remarks: | | |
| Tailbuoy #1 | n/a | Gun string #1 | good | |
| Tailbuoy #2 | n/a | Gun string #2 | bad | |
| Tailbuoy #3 | n/a | Gun string #3 | good | |
| Tailbuoy #4 | n/a | Gun string #4 | good | |
| Langsech: LauPhas | | source: 8m.SCN(001) | | langsech:RTCN |
| SP spacine: 500m | | line status: | | |

| | | | | | |
|-----|-----------|--------|------|-------|------|
| Seq | Line Name | J- Day | DIR | FGSP | LGSP |
| 069 | LAU_B007 | 46 | 11 ° | 69026 | |

| | | | | |
|---|-----------------------------------|---|---------------------------------|------------------|
| Seq# 070 | | Line Name: LAU_B007A | NAVIGATION | DATE: 2009-02-15 |
| | | Line Brg: 281 ° | LINE LOGS | JULIAN DAY: 46 |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | | MGL0903 |
| DC SOL: 376.7m | DEPTH SOL: 2663.0m | NAVIGATION SYSTEM USED: C-Nav - Primary | | |
| DC EOL: 63.5m | DEPTH EOL: 2676.0m | NAVIGATION SYSTEM USED: SeaPath 200 | | |
| SMG SOL: 4.5 knots | FEATHER SOL: n/a * | NAVIGATION SYSTEM USED: Posnet | | |
| SMG EOL: 4.3 knots | FEATHER EOL: n/a * | GRAVITY METER: BMG-3 | | |
| WEATHER | | MAGNETOMETER: GeoMetrics G-882 | | |
| WIND SOL: 9 knots | MAX FEATHER: n/a * | MAG DEC USED : 13 | | |
| WIND EOL: 8 knots | | | | |
| SEAS SOL: 1-2 ft | 00:00 - 12:00 est =: | | | |
| SEAS EOL: 1-2ft | 12:00 - 24:00 est =: Regan Austin | | | |
| SP | TIME(utc) | EVENT | COMMENTS | |
| 70023 | 18:27 | FSP | Start of line; first shot point | |
| 70023 | 18:27 | FGSP | First good shot point | |
| 70026 | 18:39 | LGSP | Last good shot point | |
| 70026 | 18:39 | LSP | End of line; last shot point | |
| VESSEL POSITION | | | | |
| | SP | Latitude (N) | Longitude (E) | |
| FSP | 70023 | -19° 59' 16.046" | -176° 02' 20.184" | |
| LSP | 70026 | -19° 59' 13.380" | -176° 03' 30.840" | |
| NAVIGATION OFFSET APPLIED | | | | |
| NRP - COS | | | -160 | |
| NRP - CNG | | | n/a | |
| COS - CNG | | | n/a | |
| NRP - CMP | | | n/a | |
| General remarks: | | | | |
| <p>P1 P2</p> <p>Lau_B007A.0.p190 Lau_B007A.0.p294</p> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 10px auto;">No Streamer</div> | | | | |
| Posnet locations & remarks: good - none - intermittent | | Acoustic remarks: | | |
| Tailbuoy #1 | n/a | Gun string #1 | good | |
| Tailbuoy #2 | n/a | Gun string #2 | bad | |
| Tailbuoy #3 | n/a | Gun string #3 | good | |
| Tailbuoy #4 | n/a | Gun string #4 | good | |
| Langseih: LauPhas | | source: Bm.SCN(001) | langseih.RTCN | |
| SP spacing: 500m | | line status: | | |

| | | | | | |
|-----|-----------|--------|------|-------|-------|
| Seq | Line Name | J- Day | DIR | FGSP | LGSP |
| 070 | LAU_B007A | 46 | 11 ° | 70023 | 70026 |

| | | | | |
|---|--|---|---------------------------------|------------------|
| Seq# 072 | | Line Name: LAU_B009 | NAVIGATION | DATE: 2009-02-16 |
| Line Brg: 11 ° | | LINE LOGS | JULIAN DAY: 47 | |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | MGL0903 | |
| DC SOL: -1469.5 DC EOL: -245.7m SMG SOL: 4.5 knots SMG EOL: | DEPTH SOL: 2473.5m DEPTH EOL: 2574.0m FEATHER SOL: n/a * FEATHER EOL: n/a * MAX FEATHER: n/a * | NAVIGATION SYSTEM USED: C-Nav - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Posnet GRAVITY METER: BMG-3 MAGNETOMETER: GeoMetrics G-882 MAG DEC USED : 13 | | |
| WEATHER | | | | |
| WIND SOL: 4.2 knots WIND EOL: 4.2 knots SEAS SOL: 1-2 ft SEAS EOL: 1-2 ft | | | | |
| 00:00 - 12:00 cst =: 12:00 - 24:00 cst =: Regan Austin, Jonathan Steeper | | | | |
| SP | TIME(utc) | EVENT | COMMENTS | |
| 72019 | 07:21 | FSP | Start of line; first shot point | |
| 72019 | 07:21 | FGSP | First good shot point | |
| 72021 | 07:28 | FCSP | First chartered shot point | |
| 72179 | 16:55 | LGSP | Last good shot point | |
| 72179 | 16:55 | LSP | End of line; last shot point | |
| VESSEL POSITION | | | | |
| | | SP | Latitude (N) | Longitude (E) |
| FSP | 72019 | -20° 42' 04.634" | -176° 14' 18.922" | |
| LSP | 72179 | -19° 59' 18.540" | -176° 05' 07.660" | |
| NAVIGATION OFFSET APPLIED | | | | |
| NRP - COS | | | | -160 |
| NRP - CNG | | | | n/a |
| COS - CNG | | | | n/a |
| NRP - CMP | | | | n/a |
| General remarks: | | | | |
| <p>P1 P2 Lau_B009.0.p190 Lau_B009.0.p294</p> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 10px 0;">No Streamer</div> | | | | |
| Posnet locations & remarks: good - none - intermittent | | Acoustic remarks: | | |
| Tailbuoy #1 | n/a | Gun string #1 | good | |
| Tailbuoy #2 | n/a | Gun string #2 | bad | |
| Tailbuoy #3 | n/a | Gun string #3 | good | |
| Tailbuoy #4 | n/a | Gun string #4 | good | |
| Langsech: LauPhas | | source: Bm.SCN(001) | | langsech: RTCN |
| SP spacing: | | 500m | | |
| line status: | | | | |

| | | | | | |
|-----|-----------|--------|------|-------|-------|
| Seq | Line Name | J- Day | DIR | FGSP | LGSP |
| 072 | LAU_B009 | 47 | 11 ° | 72021 | 72179 |

| | | | | | | | | | | | | | | | | | |
|---|----------------------|--|---------------------------------|--|------------------|-----------|----------------------|----------------------|----------------------|------------------|--|---------------------|-------------------|-----|-----------|------------------|-------------------|
| Seq# 073 | | Line Name: LAU_B009A | <u>NAVIGATION</u> | | DATE: 2009-02-16 | | | | | | | | | | | | |
| | | Line Brg: 281 ° | <u>LINE LOGS</u> | | JULIAN DAY: 47 | | | | | | | | | | | | |
| CLIENT: National Science Foundation | | | SURVEY: Lau Basin | | MGL0903 | | | | | | | | | | | | |
| DC SOL: -335.8 DC EOL: -322.8m SMG SOL: 4.3 knots SMG EOL: 4.4 knots | | DEPTH SOL: 2578.0m DEPTH EOL: 2611.0m FEATHER SOL: n/a * FEATHER EOL: n/a * MAX FEATHER: n/a * | | NAVIGATION SYSTEM USED: C-Nav - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Posnet GRAVITY METER: BMG-3 MAGNETOMETER: GeoMetrics G-882 MAG DEC USED: 13 | | | | | | | | | | | | | |
| <table style="width:100%; border: none;"> <tr> <td style="width: 30%;">WEATHER</td> <td style="width: 30%;">00:00 - 12:00 est =:</td> <td style="width: 40%;">00:00 - 12:00 est =:</td> </tr> <tr> <td>WIND SOL: 4.2 knots</td> <td>SEAS SOL: 1-2 ft</td> <td>12:00 - 24:00 est =: Michaela Conley, Erica Emry, Regan Austin, Jonathan Sleeper</td> </tr> <tr> <td>WIND EOL: 4.7 knots</td> <td>SEAS EOL: 1-2 ft</td> <td></td> </tr> </table> | | | | | | WEATHER | 00:00 - 12:00 est =: | 00:00 - 12:00 est =: | WIND SOL: 4.2 knots | SEAS SOL: 1-2 ft | 12:00 - 24:00 est =: Michaela Conley, Erica Emry, Regan Austin, Jonathan Sleeper | WIND EOL: 4.7 knots | SEAS EOL: 1-2 ft | | | | |
| WEATHER | 00:00 - 12:00 est =: | 00:00 - 12:00 est =: | | | | | | | | | | | | | | | |
| WIND SOL: 4.2 knots | SEAS SOL: 1-2 ft | 12:00 - 24:00 est =: Michaela Conley, Erica Emry, Regan Austin, Jonathan Sleeper | | | | | | | | | | | | | | | |
| WIND EOL: 4.7 knots | SEAS EOL: 1-2 ft | | | | | | | | | | | | | | | | |
| SP | TIME(utc) | EVENT | COMMENTS | | | | | | | | | | | | | | |
| 73022 | 16:58 | FSP | Start of line: first shot point | | | | | | | | | | | | | | |
| 73022 | 16:58 | FCSP | First good shot point | | | | | | | | | | | | | | |
| | | FCSP | First chartered shot point | | | | | | | | | | | | | | |
| 73026 | 17:16 | LGSP | Last good shot point | | | | | | | | | | | | | | |
| 73026 | 17:16 | LSP | End of line: last shot point | | | | | | | | | | | | | | |
| VESEL POSITION | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%;">SP</td> <td style="width: 10%;">Latitude (N)</td> <td style="width: 10%;">Longitude (E)</td> </tr> <tr> <td>FSP</td> <td>73022</td> <td>-19° 59' 06.480"</td> <td>-178° 05' 14.880"</td> </tr> <tr> <td>LSP</td> <td>73026</td> <td>-19° 58' 53.262"</td> <td>-178° 06' 21.675"</td> </tr> </table> | | | | | | | SP | Latitude (N) | Longitude (E) | FSP | 73022 | -19° 59' 06.480" | -178° 05' 14.880" | LSP | 73026 | -19° 58' 53.262" | -178° 06' 21.675" |
| | SP | Latitude (N) | Longitude (E) | | | | | | | | | | | | | | |
| FSP | 73022 | -19° 59' 06.480" | -178° 05' 14.880" | | | | | | | | | | | | | | |
| LSP | 73026 | -19° 58' 53.262" | -178° 06' 21.675" | | | | | | | | | | | | | | |
| NAVIGATION OFFSET APPLIED | | | | | | | | | | | | | | | | | |
| <table style="width:100%; border: none;"> <tr> <td style="width: 80%;">NRP - COS</td> <td style="width: 20%; border-bottom: 1px solid black;"></td> <td style="text-align: right;">-160</td> </tr> <tr> <td>NRP - CNG</td> <td style="border-bottom: 1px solid black;"></td> <td style="text-align: right;">n/a</td> </tr> <tr> <td>COS - CNG</td> <td style="border-bottom: 1px solid black;"></td> <td style="text-align: right;">n/a</td> </tr> <tr> <td>NRP - CMP</td> <td style="border-bottom: 1px solid black;"></td> <td style="text-align: right;">n/a</td> </tr> </table> | | | | | | NRP - COS | | -160 | NRP - CNG | | n/a | COS - CNG | | n/a | NRP - CMP | | n/a |
| NRP - COS | | -160 | | | | | | | | | | | | | | | |
| NRP - CNG | | n/a | | | | | | | | | | | | | | | |
| COS - CNG | | n/a | | | | | | | | | | | | | | | |
| NRP - CMP | | n/a | | | | | | | | | | | | | | | |
| General remarks: | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| <p>P1 P2</p> <p>Lau_B009A.0.p190 Lau_B009A.0.p294</p> <div style="border: 2px solid black; padding: 5px; display: inline-block; margin: 10px;">No Streamer</div> | | | | | | | | | | | | | | | | | |
| Posnet locations & remarks: good - none - intermittent | | | | Acoustic remarks: | | | | | | | | | | | | | |
| Tailboom #1 | n/a | Gun string #1 | good | | | | | | | | | | | | | | |
| Tailboom #2 | n/a | Gun string #2 | bad | | | | | | | | | | | | | | |
| Tailboom #3 | n/a | Gun string #3 | good | | | | | | | | | | | | | | |
| Tailboom #4 | n/a | Gun string #4 | good | | | | | | | | | | | | | | |
| Line status: | | | | | | | | | | | | | | | | | |
| Langseih: LauPhas | | source: Bm.SCN(001) | | langseih.RTCN | | | | | | | | | | | | | |
| SP spacing: 500m | | | | | | | | | | | | | | | | | |

Seq 073 Line Name LAU_B009A J- Day 47 DIR 281 ° FGPS 73022 LGSP 73026

| Seq# 076 | | Line Name: LAU_B011 | | NAVIGATION | DATE: 2009-02-17 | | | | |
|--|-----------------|--|---------------------------------|---|------------------|----|----|-----------------|-----------------|
| | | Line Brg: 11 ° | | LINE LOGS | JULIAN DAY: 48 | | | | |
| CLIENT: National Science Foundation | | | SURVEY: Lau Basin | | MGL0903 | | | | |
| DC SOL: 64.8 DC EOL: 255.8m | | DEPTH SOL: 2424.8m DEPTH EOL: 2528.8m | | NAVIGATION SYSTEM USED: C-Nav - Primary | | | | | |
| SMG SOL: 4.3 knots SMG EOL: 4.5 knots | | FEATHER SOL: n/a * FEATHER EOL: n/a * | | NAVIGATION SYSTEM USED: SeaPath 200 | | | | | |
| WEATHER | | MAX FEATHER: n/a * | | GRAVITY METER: BMG-3 | | | | | |
| WIND SOL: 6-8 knots | | | | MAGNETOMETER: GeoMetrics G-882 | | | | | |
| WIND EOL: 4 knots | | | | MAG DEC USED : 13 | | | | | |
| SEAS SOL: 1-2 ft | | 00:00 - 12:00 cst =: | | | | | | | |
| SEAS EOL: 2-3 ft | | 12:00 - 24:00 cst =: Michaela Conley, Erica Emry, Jonathan Sleeper | | | | | | | |
| SP | TIME(utc) | EVENT | COMMENTS | VESSEL POSITION | | | | | |
| 76023 | 3:19 | FSP | Start of line; first shot point | SP | | | | | |
| 76023 | 3:19 | FGSP | First good shot point | Latitude (N) | | | | | |
| | | | | Longitude (E) | | | | | |
| | | | | FSP | 76023 | | | | |
| | | | | LSP | 76159 | | | | |
| | | | | Longitude (E) | | | | | |
| | | | | FSP | -20° 40' 07.013" | | | | |
| | | | | LSP | -20° 03' 58.792" | | | | |
| | | | | -176° 17' 20.915" | | | | | |
| | | | | -176° 09' 41.022" | | | | | |
| | | | | NAVIGATION OFFSET APPLIED | | | | | |
| | | | | NRP - COS | -160 | | | | |
| | | | | NRP - CNG | n/a | | | | |
| | | | | COS - CNG | n/a | | | | |
| | | | | NRP - CMP | n/a | | | | |
| | | | | General remarks: | | | | | |
| | | | | <table style="margin-left: auto; margin-right: auto;"> <tr> <td>P1</td> <td>P2</td> </tr> <tr> <td>Lau_B011.0.p190</td> <td>Lau_B011.0.p294</td> </tr> </table> | | P1 | P2 | Lau_B011.0.p190 | Lau_B011.0.p294 |
| P1 | P2 | | | | | | | | |
| Lau_B011.0.p190 | Lau_B011.0.p294 | | | | | | | | |
| | | | | <div style="border: 2px solid black; padding: 5px; display: inline-block;">No Streamer</div> | | | | | |
| Posnet locations & remarks: good - none - intermittent | | Acoustic remarks: | | Langseth: LauPhas source: Bm.SCN(001) langseth: RTCN | | | | | |
| Tailbuoy #1 | n/a | Gun string #1 | good | SP spacing: 500m | | | | | |
| Tailbuoy #2 | n/a | Gun string #2 | bad | line status: | | | | | |
| Tailbuoy #3 | n/a | Gun string #3 | good | | | | | | |
| Tailbuoy #4 | n/a | Gun string #4 | good | | | | | | |

| | | | | | |
|-----|-----------|--------|------|-------|-------|
| Seq | Line Name | J- Day | DIR | FGSP | LGSP |
| 076 | LAU_B011 | 48 | 11 ° | 76023 | 76159 |

| | | | | |
|--|--|---|---------------------------------|------------------|
| Seq# 078 | | Line Name: LAU_B012 | NAVIGATION | DATE: 2009-02-17 |
| | | Line Brg: 191 ° | LINE LOGS | JULIAN DAY: 48 |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | MGL0903 | |
| DC SOL: -103.0 DC EOL: 178.0m SMG SOL: 4.2 knots SMG EOL: 4.4 knots | DEPTH SOL: 2571.6m DEPTH EOL: 2363.0m FEATHER SOL: n/a * FEATHER EOL: n/a * MAX FEATHER: n/a * | NAVIGATION SYSTEM USED: C-Nav - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Posnet GRAVITY METER: BMG-3 MAGNETOMETER: GeoMetrics G-882 MAG DEC USED : 13 | | |
| WEATHER | | | | |
| WIND SOL: 15 knots WIND EOL: 12 knots SEAS SOL: 2-4 ft SEAS EOL: 2-4 ft | | | | |
| 00:00 - 12:00 cst =: 12:00 - 24:00 cst =: Jonathan Sleeper, Olga Hernandez, Regan Austin | | | | |
| SP | TIME(utc) | EVENT | COMMENTS | |
| 78023 | 12:39 | FSP | Start of line: first shot point | |
| 78023 | 12:39 | FGSP | First good shot point | |
| 78129 | 19:03 | LSP | Last Shot Point | |
| 78129 | 19:03 | LGSP | Last Good Shot Point | |
| VESSEL POSITION | | | | |
| | | SP | Latitude (N) | Longitude (E) |
| FSP | 78023 | -20° 03' 44.234" | -176° 11' 46.424" | |
| LSP | 78129 | -20° 31' 50.761" | -176° 18' 02.804" | |
| NAVIGATION OFFSET APPLIED | | | | |
| | | NRP - COS | -160 | |
| | | NRP - CNG | n/a | |
| | | COS - CNG | n/a | |
| | | NRP - CMP | n/a | |
| General remarks: | | | | |
| <p>P1 P2 Lau_B012.0.p190 Lau_B012.0.p294</p> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 10px auto;">No Streamer</div> | | | | |
| Posnet locations & remarks: good - none - intermittent | | Acoustic remarks: | | |
| Tailbuoy #1 | n/a | Gun string #1 | good | |
| Tailbuoy #2 | n/a | Gun string #2 | bad | |
| Tailbuoy #3 | n/a | Gun string #3 | good | |
| Tailbuoy #4 | n/a | Gun string #4 | good | |
| Langseth: LauPhas | | source: Bm.SCN(001) | | langseth: RTCN |
| SP spacing: | | 500m | | |
| line status: | | complete | | |

| | | | | | |
|-----|-----------|--------|-------|-------|-------|
| Seq | Line Name | J- Day | DIR | FGSP | LGSP |
| 078 | LAU_B012 | 48 | 191 ° | 78023 | 78129 |

| Seq# 079 | | Line Name: LAU_B012A | NAVIGATION | DATE: 2009-02-17 | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------------------|--|---------------------------------|-------------------|---------------------------|-------------------|-------------|------|-----------|---------------|-----------|-------------|------------------|-----|-------|------------------|-------------|-----|--|------|--|-------------|-----|--|------|--|---|--|--|
| Line Brg: 281 ° | | | LINE LOGS | JULIAN DAY: 48 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | MGL0903 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DC SOL: 378.9 | DEPTH SOL: 2287.0m | NAVIGATION SYSTEM USED: C-Nav - Primary | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DC EOL: 380.0m | DEPTH EOL: 2019.0m | NAVIGATION SYSTEM USED: SeaPath 200 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SMG SOL: 4.5 knots | FEATHER SOL: n/a * | NAVIGATION SYSTEM USED: Posnet | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SMG EOL: 4.3 knots | FEATHER EOL: n/a * | GRAVITY METER: BMG-3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MAX FEATHER: n/a * | MAGNETOMETER: GeoMetrics G-882 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WEATHER | | MAG DEC USED : 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WIND SOL: 10 knots | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WIND EOL: 9 knots | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SEAS SOL: 2-4 ft | 00:00 - 12:00 cst =: | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SEAS EOL: 2-4 ft | 12:00 - 24:00 cst =: Regan Austin | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SP | TIME(utc) | EVENT | COMMENTS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 79022 | 19:07 | FSP | Start of line: first shot point | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 79022 | 19:07 | FGSP | First good shot point | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 79026 | 19:24 | LSP | Last Shot Point | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 79026 | 19:24 | LGSP | Last Good Shot Point | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="3">VESSEL POSITION</th> </tr> <tr> <td></td> <td>SP</td> <td>Longitude (E)</td> </tr> <tr> <td>FSP</td> <td>79022</td> <td>-20° 31' 50.761"</td> </tr> <tr> <td>LSP</td> <td>79026</td> <td>-20° 31' 48.494"</td> </tr> </table> | | | VESSEL POSITION | | | | SP | Longitude (E) | FSP | 79022 | -20° 31' 50.761" | LSP | 79026 | -20° 31' 48.494" | | | | | | | | | | | | | |
| VESSEL POSITION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SP | Longitude (E) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FSP | 79022 | -20° 31' 50.761" | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LSP | 79026 | -20° 31' 48.494" | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">NAVIGATION OFFSET APPLIED</th> </tr> <tr> <td>NRP - COS</td> <td>-160</td> </tr> <tr> <td>NRP - CNG</td> <td>n/a</td> </tr> <tr> <td>COS - CNG</td> <td>n/a</td> </tr> <tr> <td>NRP - CMP</td> <td>n/a</td> </tr> </table> | | | NAVIGATION OFFSET APPLIED | | NRP - COS | -160 | NRP - CNG | n/a | COS - CNG | n/a | NRP - CMP | n/a | | | | | | | | | | | | | | | |
| NAVIGATION OFFSET APPLIED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NRP - COS | -160 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NRP - CNG | n/a | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COS - CNG | n/a | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NRP - CMP | n/a | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <p>General remarks:</p> <div style="border: 1px solid black; padding: 10px; text-align: center;"> <p>P1 P2</p> <p>Lau_B012A.0.p190 Lau_B012A.0.p294</p> <p>No Streamer</p> </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Posnet locations & remarks:</th> <th>good</th> <th>none</th> <th>intermittent</th> <th>Acoustic remarks:</th> </tr> <tr> <td>Tailbuoy #1</td> <td>n/a</td> <td></td> <td>good</td> <td></td> </tr> <tr> <td>Tailbuoy #2</td> <td>n/a</td> <td></td> <td>bad</td> <td></td> </tr> <tr> <td>Tailbuoy #3</td> <td>n/a</td> <td></td> <td>good</td> <td></td> </tr> <tr> <td>Tailbuoy #4</td> <td>n/a</td> <td></td> <td>good</td> <td></td> </tr> </table> | | Posnet locations & remarks: | good | none | intermittent | Acoustic remarks: | Tailbuoy #1 | n/a | | good | | Tailbuoy #2 | n/a | | bad | | Tailbuoy #3 | n/a | | good | | Tailbuoy #4 | n/a | | good | | Langseth: LauPhas source_BmSCN(001) langseth_RTCN SP spacings: 500m line status: complete | | |
| Posnet locations & remarks: | good | none | intermittent | Acoustic remarks: | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tailbuoy #1 | n/a | | good | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tailbuoy #2 | n/a | | bad | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tailbuoy #3 | n/a | | good | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tailbuoy #4 | n/a | | good | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | |
|-----|-----------|--------|-------|-------|-------|
| Seq | Line Name | J- Day | DIR | FGSP | LGSP |
| 079 | LAU_B012A | 48 | 281 ° | 79022 | 79026 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|---|--|--|-----------------------|--|--|-----------|---------------------|----------------------|-----|-------|------------------|-------------------|-----|-------|------------------|-------------------|----------------------------------|--|--|--|-----------|--|--|------|-----------|--|--|-----|-----------|--|--|-----|-----------|--|--|-----|---|--|--|--|--|--|---------------------------------|--|-------------|-----|---------------|------|-------------|-----|---------------|-----|-------------|-----|---------------|------|-------------|-----|---------------|------|---|--|--|--|----------------------------|--|--|--|
| <p>Seq# 081</p> | <p>Line Name: LAU_B013A</p> <p>Line Brg: 281 °</p> | <p>NAVIGATION</p> <p><u>LINE LOGS</u></p> | <p>DATE: 2009-02-18</p> <p>JULIAN DAY: 49</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>CLIENT: National Science Foundation</p> | | <p>SURVEY: Lau Basin</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>DC SOL: 4661.1 DC EOL: 5026.3m SMG SOL: 4.3 knots SMG EOL: 3.9 knots</p> <p>WEATHER WIND SOL: 7.4 knots WIND EOL: 12.4 knots SEAS SOL: SEAS EOL:</p> | | <p>DEPTH SOL: 2732.9m DEPTH EOL: 2678.5m FEATHER SOL: n/a * FEATHER EOL: n/a * MAX FEATHER: n/a *</p> <p>NAVIGATION SYSTEM USED: C-Nav - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Posnet GRAVITY METER: BMG-3 MAGNETOMETER: GeoMetrics G-862 MAG DEC USED : 13</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SP | TIME(utc) | EVENT | COMMENTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 81022 | 03:44 | FSP | Start of line: first shot point | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | FGSP | First good shot point | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | LSP | Last Shot Point | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 81026 | 04:02 | LGSP | Last Good Shot Point | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2"></td> <td colspan="2" style="text-align: center;">VESEL POSITION</td> </tr> <tr> <td></td> <td style="text-align: center;">SP</td> <td style="text-align: center;">Latitude (N)</td> <td style="text-align: center;">Longitude (E)</td> </tr> <tr> <td>FSP</td> <td style="text-align: center;">81022</td> <td style="text-align: center;">-19° 55' 03.296"</td> <td style="text-align: center;">-176° 12' 00.930"</td> </tr> <tr> <td>LSP</td> <td style="text-align: center;">81026</td> <td style="text-align: center;">-19° 54' 38.812"</td> <td style="text-align: center;">-176° 13' 05.859"</td> </tr> <tr> <td colspan="4" style="text-align: center;">NAVIGATION OFFSET APPLIED</td> </tr> <tr> <td>NRP - COS</td> <td style="border-bottom: 1px solid black;"></td> <td style="border-bottom: 1px solid black;"></td> <td style="text-align: right;">-160</td> </tr> <tr> <td>NRP - CNG</td> <td style="border-bottom: 1px solid black;"></td> <td style="border-bottom: 1px solid black;"></td> <td style="text-align: right;">n/a</td> </tr> <tr> <td>COS - CNG</td> <td style="border-bottom: 1px solid black;"></td> <td style="border-bottom: 1px solid black;"></td> <td style="text-align: right;">n/a</td> </tr> <tr> <td>NRP - CMP</td> <td style="border-bottom: 1px solid black;"></td> <td style="border-bottom: 1px solid black;"></td> <td style="text-align: right;">n/a</td> </tr> <tr> <td colspan="4" style="padding-top: 10px;"> <p>General remarks:</p> <p style="text-align: center; margin-top: 20px;"> P1 P2 Lau_B014.0.p190 Lau_B014.0.p294 </p> <div style="border: 2px solid black; width: 100px; margin: 10px auto; text-align: center; padding: 5px;"> No Streamer </div> </td> </tr> <tr> <td colspan="2"> <p>Posnet locations & remarks: good - none - intermittent</p> </td> <td colspan="2"> <p>Acoustic remarks:</p> </td> </tr> <tr> <td>Tailbuoy #1</td> <td>n/a</td> <td>Gun string #1</td> <td>good</td> </tr> <tr> <td>Tailbuoy #2</td> <td>n/a</td> <td>Gun string #2</td> <td>bad</td> </tr> <tr> <td>Tailbuoy #3</td> <td>n/a</td> <td>Gun string #3</td> <td>good</td> </tr> <tr> <td>Tailbuoy #4</td> <td>n/a</td> <td>Gun string #4</td> <td>good</td> </tr> <tr> <td colspan="4"> <p>Langseth: LauPhase source_Bm.SCN(001) langseth_RTCN</p> <p>SP spacine: 500m</p> </td> </tr> <tr> <td colspan="4"> <p>line status:</p> </td> </tr> </table> | | | | | | VESEL POSITION | | | SP | Latitude (N) | Longitude (E) | FSP | 81022 | -19° 55' 03.296" | -176° 12' 00.930" | LSP | 81026 | -19° 54' 38.812" | -176° 13' 05.859" | NAVIGATION OFFSET APPLIED | | | | NRP - COS | | | -160 | NRP - CNG | | | n/a | COS - CNG | | | n/a | NRP - CMP | | | n/a | <p>General remarks:</p> <p style="text-align: center; margin-top: 20px;"> P1 P2 Lau_B014.0.p190 Lau_B014.0.p294 </p> <div style="border: 2px solid black; width: 100px; margin: 10px auto; text-align: center; padding: 5px;"> No Streamer </div> | | | | <p>Posnet locations & remarks: good - none - intermittent</p> | | <p>Acoustic remarks:</p> | | Tailbuoy #1 | n/a | Gun string #1 | good | Tailbuoy #2 | n/a | Gun string #2 | bad | Tailbuoy #3 | n/a | Gun string #3 | good | Tailbuoy #4 | n/a | Gun string #4 | good | <p>Langseth: LauPhase source_Bm.SCN(001) langseth_RTCN</p> <p>SP spacine: 500m</p> | | | | <p>line status:</p> | | | |
| | | VESEL POSITION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SP | Latitude (N) | Longitude (E) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FSP | 81022 | -19° 55' 03.296" | -176° 12' 00.930" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LSP | 81026 | -19° 54' 38.812" | -176° 13' 05.859" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NAVIGATION OFFSET APPLIED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NRP - COS | | | -160 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NRP - CNG | | | n/a | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COS - CNG | | | n/a | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NRP - CMP | | | n/a | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>General remarks:</p> <p style="text-align: center; margin-top: 20px;"> P1 P2 Lau_B014.0.p190 Lau_B014.0.p294 </p> <div style="border: 2px solid black; width: 100px; margin: 10px auto; text-align: center; padding: 5px;"> No Streamer </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Posnet locations & remarks: good - none - intermittent</p> | | <p>Acoustic remarks:</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tailbuoy #1 | n/a | Gun string #1 | good | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tailbuoy #2 | n/a | Gun string #2 | bad | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tailbuoy #3 | n/a | Gun string #3 | good | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tailbuoy #4 | n/a | Gun string #4 | good | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Langseth: LauPhase source_Bm.SCN(001) langseth_RTCN</p> <p>SP spacine: 500m</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>line status:</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Seq 081 Line Name LAU_B013A J- Day 49 DIR 281 ° FGSP LGSP

| | | | | |
|--|--|---|---------------------------------|------------------|
| Seq# 082 | | Line Name: LAU_B014 | NAVIGATION | DATE: 2009-02-18 |
| Line Brg: 191 ° | | LINE LOGS | JULIAN DAY: 49 | |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | MGL0903 | |
| DC SOL: 1.6 DC EOL: 417.0m SMG SOL: 4.5 knots SMG EOL: 4.5 knots | DEPTH SOL: 2622.0m DEPTH EOL: 2149.0m FEATHER SOL: n/a * FEATHER EOL: n/a * MAX FEATHER: n/a * | NAVIGATION SYSTEM USED: C-Nav - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Posnet GRAVITY METER: BMG-3 MAGNETOMETER: GeoMetrics G-882 MAG DEC USED : 13 | | |
| WEATHER | | | | |
| WIND SOL: 13.3 knots WIND EOL: 11 knots SEAS SOL: 2-4 ft SEAS EOL: 4.0m | | | | |
| | | 00:00 - 12:00 cst no 12:00 - 24:00 cst no | | |
| SP | TIME(utc) | EVENT | COMMENTS | |
| 82021 | 04:45 | FSP | Start of line; first shot point | |
| 82021 | 04:45 | FGSP | First good shot point | |
| 82150 | 12:32 | LGSP | Last Good Shot Point | |
| 82150 | 12:32 | LSP | Last Shot Point | |
| VESEL POSITION | | | | |
| | SP | Latitude (N) | Longitude (E) | |
| FSP | 82021 | -19° 57' 15.732" | -176° 13' 57.378" | |
| LSP | 82150 | -20° 31' 28.440" | -176° 21' 39.120" | |
| NAVIGATION OFFSET APPLIED | | | | |
| NRP - COS | | | | -160 |
| NRP - CNG | | | | n/a |
| COS - CNG | | | | n/a |
| NRP - CMP | | | | n/a |
| General remarks: | | | | |
| <p>P1 P2 Lau_B014.0.p190 Lau_B014.0.p294</p> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 10px auto;">No Streamer</div> | | | | |
| Posnet locations & remarks: good - none - intermittent | | Acoustic remarks: | | |
| Tailbuoy #1 | n/a | Gun string #1 | good | |
| Tailbuoy #2 | n/a | Gun string #2 | bad | |
| Tailbuoy #3 | n/a | Gun string #3 | good | |
| Tailbuoy #4 | n/a | Gun string #4 | good | |
| line status: | | Langseth: LauPhas source: Bm.SCN(001) langseth.RTCN | | |
| | | SP spacing: 500m | | |

| | | | | | |
|-----|-----------|--------|-------|-------|-------|
| Seq | Line Name | J- Day | DIR | FGSP | LGSP |
| 082 | LAU_B014 | 49 | 191 ° | 82021 | 82150 |

| Seq# 083 | | Line Name: LAU_B014A | NAVIGATION | DATE: 2009-02-18 | | | | | | | | | | | | | | | | | | | | |
|---|-----------------------|---|---------------------------------|------------------|---------------------------|--|-----------------|--|-----------|-------|--------------|---------------|-----------|-------|------------------|-------------------|-----------|-------|------------------|-------------------|-----------|-------|-------|-----|
| | | Line Brg: -350 ° | LINE LOGS | JULIAN DAY: 49 | | | | | | | | | | | | | | | | | | | | |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | MGL0903 | | | | | | | | | | | | | | | | | | | | | |
| DC SOL: 200.0 | DEPTH SOL: 2269.0m | NAVIGATION SYSTEM USED: C-Nav - Primary | | | | | | | | | | | | | | | | | | | | | | |
| DC EOL: 218.0m | DEPTH EOL: 2002.0m | NAVIGATION SYSTEM USED: SeaPath 200 | | | | | | | | | | | | | | | | | | | | | | |
| SMG SOL: 4.5 knots | FEATHER SOL: n/a * | NAVIGATION SYSTEM USED: Posnet | | | | | | | | | | | | | | | | | | | | | | |
| SMG EOL: 4.5 knots | FEATHER EOL: n/a * | GRAVITY METER: BMG-3 | | | | | | | | | | | | | | | | | | | | | | |
| | MAX FEATHER: n/a * | MAGNETOMETER: GeoMetrics G-882 | | | | | | | | | | | | | | | | | | | | | | |
| | | MAG DEC USED : 13 | | | | | | | | | | | | | | | | | | | | | | |
| WEATHER | | | | | | | | | | | | | | | | | | | | | | | | |
| WIND SOL: 15 knots | | | | | | | | | | | | | | | | | | | | | | | | |
| WIND EOL: 17 knots | | | | | | | | | | | | | | | | | | | | | | | | |
| SEAS SOL: 1.0m | 00:00 - 12:00 cat no: | | | | | | | | | | | | | | | | | | | | | | | |
| SEAS EOL: 1.0m | 12:00 - 24:00 cat no: | | | | | | | | | | | | | | | | | | | | | | | |
| SP | TIME(utc) | EVENT | COMMENTS | | | | | | | | | | | | | | | | | | | | | |
| 83022 | 12:55 | FSP | Start of line: first shot point | | | | | | | | | | | | | | | | | | | | | |
| 83022 | 12:55 | FGSP | First good shot point | | | | | | | | | | | | | | | | | | | | | |
| 83066 | 15:38 | LQSP | Last Good Shot Point | | | | | | | | | | | | | | | | | | | | | |
| 83066 | 15:38 | LSP | Last Shot Point | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th colspan="2">VESSEL POSITION</th> </tr> <tr> <th></th> <th>SP</th> <th>Latitude (N)</th> <th>Longitude (E)</th> </tr> </thead> <tbody> <tr> <td>FSP</td> <td>83022</td> <td>-20° 31' 19.500"</td> <td>-176° 23' 23.820"</td> </tr> <tr> <td>LSP</td> <td>83066</td> <td>-20° 19' 37.440"</td> <td>-176° 25' 47.220"</td> </tr> </tbody> </table> | | | | | | | VESSEL POSITION | | | SP | Latitude (N) | Longitude (E) | FSP | 83022 | -20° 31' 19.500" | -176° 23' 23.820" | LSP | 83066 | -20° 19' 37.440" | -176° 25' 47.220" | | | | |
| | | VESSEL POSITION | | | | | | | | | | | | | | | | | | | | | | |
| | SP | Latitude (N) | Longitude (E) | | | | | | | | | | | | | | | | | | | | | |
| FSP | 83022 | -20° 31' 19.500" | -176° 23' 23.820" | | | | | | | | | | | | | | | | | | | | | |
| LSP | 83066 | -20° 19' 37.440" | -176° 25' 47.220" | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">NAVIGATION OFFSET APPLIED</th> </tr> </thead> <tbody> <tr> <td>NRP - COS</td> <td>_____</td> <td>_____</td> <td>-160</td> </tr> <tr> <td>NRP - CNG</td> <td>_____</td> <td>_____</td> <td>n/a</td> </tr> <tr> <td>COS - CNG</td> <td>_____</td> <td>_____</td> <td>n/a</td> </tr> <tr> <td>NRP - CMP</td> <td>_____</td> <td>_____</td> <td>n/a</td> </tr> </tbody> </table> | | | | | NAVIGATION OFFSET APPLIED | | | | NRP - COS | _____ | _____ | -160 | NRP - CNG | _____ | _____ | n/a | COS - CNG | _____ | _____ | n/a | NRP - CMP | _____ | _____ | n/a |
| NAVIGATION OFFSET APPLIED | | | | | | | | | | | | | | | | | | | | | | | | |
| NRP - COS | _____ | _____ | -160 | | | | | | | | | | | | | | | | | | | | | |
| NRP - CNG | _____ | _____ | n/a | | | | | | | | | | | | | | | | | | | | | |
| COS - CNG | _____ | _____ | n/a | | | | | | | | | | | | | | | | | | | | | |
| NRP - CMP | _____ | _____ | n/a | | | | | | | | | | | | | | | | | | | | | |
| General remarks: | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>P1 P2 Lau_B014A.0.p190 Lau_B014A.0.p294</p> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 10px auto;">No Streamer</div> | | | | | | | | | | | | | | | | | | | | | | | | |
| Posnet locations & remarks: good - none - intermittent | | Acoustic remarks: | | | | | | | | | | | | | | | | | | | | | | |
| Tailbuoy #1 | n/a | Gun string #1 | good | | | | | | | | | | | | | | | | | | | | | |
| Tailbuoy #2 | n/a | Gun string #2 | bad | | | | | | | | | | | | | | | | | | | | | |
| Tailbuoy #3 | n/a | Gun string #3 | good | | | | | | | | | | | | | | | | | | | | | |
| Tailbuoy #4 | n/a | Gun string #4 | good | | | | | | | | | | | | | | | | | | | | | |
| line status: | | Langseth: LauPhas source: Bm.SCN(001) langseth:RTCN | | | | | | | | | | | | | | | | | | | | | | |
| | | SP spacing: 500m | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | |
|-----|-----|-----------|-----------|--------|----|-----|--------|------|-------|------|-------|
| Seq | 083 | Line Name | LAU_B014A | J- Day | 49 | DIR | -350 ° | FGSP | 83022 | LGSP | 83066 |
|-----|-----|-----------|-----------|--------|----|-----|--------|------|-------|------|-------|

| | | | | |
|---|--|---|---------------------------------|------------------|
| Seq# 084 | | Line Name: LAU_B015 | NAVIGATION | DATE: 2009-02-18 |
| | | Line Brg: 101 ° | LINE LOGS | JULIAN DAY: 49 |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | MGL0903 | |
| DC SOL: 30.0 DC EOL: -150.0m SMG SOL: 4.5 knots SMG EOL: 4.5 knots | DEPTH SOL: 1996.0m DEPTH EOL: 2250.0m FEATHER SOL: n/a * FEATHER EOL: n/a * MAX FEATHER: n/a * | NAVIGATION SYSTEM USED: C-Nav - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Posnet GRAVITY METER: BMG-3 MAGNETOMETER: GeoMetrics G-882 MAG DEC USED : 13 | | |
| WEATHER | | | | |
| WIND SOL: 16 knots WIND EOL: 14.1 knots SEAS SOL: 1.0m SEAS EOL: | | | | |
| | | 00:00 - 12:00 cst =: | | |
| | | 12:00 - 24:00 cst =: | | |
| SP | TIME(utc) | EVENT | COMMENTS | |
| 84025 | 15:46 | FSP | Start of line: first shot point | |
| 84025 | 15:46 | FGSP | First good shot point | |
| 84156 | 23:39 | LGSP | Last Good Shot Point | |
| 84161 | 23:57 | LCSP | Last Charted Shot Point | |
| 84167 | 00:19 | LSP | Last Shot Point | |
| VESEL POSITION | | | | |
| | | SP | Latitude (N) | Longitude (E) |
| FSP | 84025 | -20° 19' 22.560" | -176° 25' 12.120" | |
| LSP | 84167 | -20° 28' 56.820" | -175° 44' 56.100" | |
| NAVIGATION OFFSET APPLIED | | | | |
| NRP - COS | | | | -160 |
| NRP - CNG | | | | n/a |
| COS - CNG | | | | n/a |
| NRP - CMP | | | | n/a |
| General remarks: | | | | |
| <p>P1 P2 Lau_B015.0.p190 Lau_B015.0.p294</p> <div style="border: 1px solid black; padding: 5px; display: inline-block;">No Streamer</div> | | | | |
| Posnet locations & remarks: good - none - intermittent | | Acoustic remarks: | | |
| Tailbuoy #1 | n/a | Gun string #1 | good | |
| Tailbuoy #2 | n/a | Gun string #2 | bad | |
| Tailbuoy #3 | n/a | Gun string #3 | good | |
| Tailbuoy #4 | n/a | Gun string #4 | good | |
| Langsech: LauPhas | | source: Bm.SCN(001) | | langsech:RTCN |
| SP spacing: | | 500m | | |
| line status: | | | | |

| | | | | | |
|-----|-----------|--------|-------|-------|-------|
| Seq | Line Name | J- Day | DIR | FGSP | LGSP |
| 084 | LAU_B015 | 49 | 101 ° | 84025 | 84156 |

| | | | | |
|---|--|---|---------------------------------|-------------------------------|
| Seq# 086 | | Line Name: LAU_B016 | NAVIGATION | DATE: 2009-02-19 |
| Line Brg: 281 ° | | LINE LOGS | JULIAN DAY: 50 | |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | MGL0903 | |
| DC SOL: 9.3 DC EOL: 270.6m SMG SOL: 4.6 knots SMG EOL: 4.7 knots | DEPTH SOL: 2271.0m DEPTH EOL: 2044.3m FEATHER SOL: n/a * FEATHER EOL: n/a * MAX FEATHER: n/a * | NAVIGATION SYSTEM USED: C-Nav - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Posnet GRAVITY METER: BMG-3 MAGNETOMETER: GeoMetrics G-882 MAG DEC USED : 13 | | |
| WEATHER | | | | |
| WIND SOL: 5.3 knots WIND EOL: 9.7 knots SEAS SOL: SEAS EOL: | | | | |
| 00:00 - 12:00 cst =: 12:00 - 24:00 cst =: | | | | |
| SP | TIME(utc) | EVENT | COMMENTS | |
| 86019 | 01:17 | FSP | Start of line: first shot point | |
| 86019 | 01:17 | FGSP | First good shot point | |
| 86051 | 03:12 | | Enable T2 | |
| 86160 | 09:44 | LGSP | Last Good Shot Point | |
| 86160 | 09:44 | LSP | Last Shot Point | |
| VESEL POSITION | | | | |
| | | SP | Latitude (N) | Longitude (E) |
| FSP | 86019 | -20° 24' 31.800" | -175° 45' 48.600" | |
| LSP | 86160 | -20° 16' 50.429" | -176° 25' 27.098" | |
| NAVIGATION OFFSET APPLIED | | | | |
| NRP - COS | | | | -160 |
| NRP - CNG | | | | n/a |
| COS - CNG | | | | n/a |
| NRP - CMP | | | | n/a |
| General remarks: | | | | |
| <p>P1 P2 Lau_B016.0.p190 Lau_B016.0.p294</p> <div style="border: 1px solid black; padding: 5px; display: inline-block;">No Streamer</div> | | | | |
| Posnet locations & remarks: good - none - intermittent | | Acoustic remarks: | | |
| Tailbuoy #1 | n/a | Gun string #1 | good | |
| Tailbuoy #2 | n/a | Gun string #2 | bad | |
| Tailbuoy #3 | n/a | Gun string #3 | good | disabled ast SOL for gun work |
| Tailbuoy #4 | n/a | Gun string #4 | good | |
| Langseth: LauPhas | | source: Bm.SCN(001) | | langseth:RTCN |
| SP spacing: | | 500m | | |
| line status: | | | | |

| | | | | | |
|-----|-----------|--------|-------|-------|-------|
| Seq | Line Name | J- Day | DIR | FGSP | LGSP |
| 086 | LAU_B016 | 50 | 281 ° | 86019 | 86160 |

| Seq# 088 | | Line Name: LAU_B017 | | NAVIGATION | | DATE: 2009-02-19 | |
|--|-----------|----------------------|---------------------------------|---|--------------|------------------|-------------------|
| | | Line Brg: 101 ° | | LINE LOGS | | JULIAN DAY: 50 | |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | | MGL0903 | | | |
| DC SOL: 393.6 | | DEPTH SOL: 2077.3m | | NAVIGATION SYSTEM USED: C-Nav - Primary | | | |
| DC EOL: 4942.0m | | DEPTH EOL: 2208.0m | | NAVIGATION SYSTEM USED: SeaPath 200 | | | |
| SMG SOL: 4.4 knots | | FEATHER SOL: n/a * | | NAVIGATION SYSTEM USED: Posnet | | | |
| SMG EOL: | | FEATHER EOL: n/a * | | GRAVITY METER: BMG-3 | | | |
| WEATHER: | | MAX FEATHER: n/a * | | MAGNETOMETER: GeoMetrics G-882 | | | |
| WIND SOL: 18.1 knots | | MAG DEC USED : 13 | | | | | |
| WIND EOL: 15 knots knots | | | | | | | |
| SEAS SOL: 1.5m | | 00:00 - 12:00 est =: | | | | | |
| SEAS EOL: 2m | | 12:00 - 24:00 est =: | | | | | |
| SP | TIME(utc) | EVENT | COMMENTS | | | | |
| 88022 | 10:13 | FSP | Start of line: first shot point | | | | |
| 88022 | 10:13 | FCSP | First good shot point | | | | |
| 88161 | 18:35 | LCSP | Last Charted Shotpoint | | | | |
| 88170 | 19:10 | | runnt PPS in and out | | | | |
| 88161 | 18:35 | LGSP | Last Good Shot Point | | | | |
| 88171 | 19:14 | LSP | Last Shot Point | | | | |
| | | | | VESSEL POSITION | | | |
| | | | | SP | Latitude (N) | Longitude (E) | |
| | | | | FSP | 88022 | -20° 14' 57.007" | -176° 25' 09.169" |
| | | | | LSP | 88171 | -20° 22' 21.480" | -175° 42' 57.480" |
| | | | | NAVIGATION OFFSET APPLIED | | | |
| | | | | NRP - COS | | | -160 |
| | | | | NRP - CNG | | | n/a |
| | | | | COS - CNG | | | n/a |
| | | | | NRP - CMP | | | n/a |
| | | | | General remarks: | | | |
| | | | | <p style="text-align: center;">P1 P2 Lau_B017.p190 Lau_B017.0.p294</p> <div style="border: 1px solid black; padding: 5px; text-align: center; width: fit-content; margin: auto;">No Streamer</div> | | | |
| | | | | Langseth: LauPhas source: 8m.SCN(001) langseth:RTCN SP spacing: 500m line status: | | | |
| Posnet locations & remarks: good - none - intermittent | | Acoustic remarks: | | | | | |
| Tailbuoy #1 | n/a | Gun string #1 | good | | | | |
| Tailbuoy #2 | n/a | Gun string #2 | bad | | | | |
| Tailbuoy #3 | n/a | Gun string #3 | good | disabled ast SOL for gun work | | | |
| Tailbuoy #4 | n/a | Gun string #4 | good | | | | |

| | | | | | | | | | | | |
|-----|-----|-----------|----------|--------|----|-----|-------|------|-------|------|-------|
| Seq | 088 | Line Name | LAU_B017 | J- Day | 50 | DIR | 101 ° | FGSP | 88022 | LGSP | 88161 |
|-----|-----|-----------|----------|--------|----|-----|-------|------|-------|------|-------|

| | | | | |
|---|--|---|---------------------------------|-------------------------------|
| Seq# 090 | | Line Name: LAU_B018 | NAVIGATION | DATE: 2009-02-19 |
| | | Line Brg: 281 ° | LINE LOGS | JULIAN DAY: 50 |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | MGL0903 | |
| DC SOL: #1.3 DC EOL: 485.7m SMG SOL: 4 knots SMG EOL: 4.6 knots | DEPTH SOL: 2247.0m DEPTH EOL: 2613.6m FEATHER SOL: n/a * FEATHER EOL: n/a * MAX FEATHER: n/a * | NAVIGATION SYSTEM USED: C-Nav - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Posnet GRAVITY METER: BMG-3 MAGNETOMETER: GeoMetrics G-882 MAG DEC USED : 13 | | |
| WEATHER | | | | |
| WIND SOL: 15 knots WIND EOL: 13.1 knots SEAS SOL: SEAS EOL: | | | | |
| | | 00:00 - 12:00 cst =: | | |
| | | 12:00 - 24:00 cst =: | | |
| SP | TIME(utc) | EVENT | COMMENTS | |
| 90020 | 20:10 | FSP | Start of line: first shot point | |
| 90020 | 20:10 | FGSP | First good shot point | |
| 90143 | 03:32 | LQSP | Last Good Shot Point | |
| 90143 | 03:32 | LSP | Last Shot Point | |
| NAVIGATION OFFSET APPLIED | | | | |
| NRP - COS | | | | -160 |
| NRP - CNG | | | | n/a |
| COS - CNG | | | | n/a |
| NRP - CMP | | | | n/a |
| General remarks: | | | | |
| <p>P1 P2</p> <p>Lau_B018.0.p190 Lau_B018.0.p294</p> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 10px auto;">No Streamer</div> | | | | |
| Posnet locations & remarks: good - none - intermittent | | Acoustic remarks: | | |
| Tailbuoy #1 | n/a | Gun string #1 | good | |
| Tailbuoy #2 | n/a | Gun string #2 | bad | |
| Tailbuoy #3 | n/a | Gun string #3 | good | disabled ast SOL for gun work |
| Tailbuoy #4 | n/a | Gun string #4 | good | |
| line status: | | Langseth: LauPhas source: Bm.SCN(001) langseth.RTCN | | |
| | | SP spacing: 500m | | |

| | | | | | |
|-----|-----------|--------|-------|-------|-------|
| Seq | Line Name | J- Day | DIR | FGSP | LGSP |
| 090 | LAU_B018 | 50 | 281 ° | 90020 | 90143 |

| | | | | | | | |
|--|-----------|----------------------|--|---|---|-------------------|--|
| Seq# 091 | | Line Name: LAU_B018A | | <u>NAVIGATION</u> | | DATE: 2009-02-20 | |
| | | Line Brg: 11 ° | | <u>LINE LOGS</u> | | JULIAN DAY: 51 | |
| CLIENT: National Science Foundation | | | SURVEY: Lau Basin | | | MGL0903 | |
| DC SOL: 109.2 | | DEPTH SOL: 2606.6m | | NAVIGATION SYSTEM USED: C-Nav - Primary | | | |
| DC EOL: 257.8m | | DEPTH EOL: 2640.8m | | NAVIGATION SYSTEM USED: SeaPath 200 | | | |
| SMG SOL: 4.6 knots | | FEATHER SOL: n/a * | | NAVIGATION SYSTEM USED: Posnet | | | |
| SMG EOL: 4.4 knots | | FEATHER EOL: n/a * | | GRAVITY METER: BMG-3 | | | |
| WEATHER | | MAX FEATHER: n/a * | | MAGNETOMETER: GeoMetrics G-882 | | | |
| WIND SOL: 12.4 knots | | | | MAG DEC USED: 13 | | | |
| WIND EOL: 16.0 knots | | | | | | | |
| SEAS SOL: | | 00:00 - 12:00 cst =: | | | | | |
| SEAS EOL: | | 12:00 - 24:00 cst =: | | | | | |
| SP | TIME(utc) | EVENT | COMMENTS | | | | |
| 91023 | 03:37 | FSP | Start of line: first shot point | | | | |
| 91023 | 03:37 | FGSP | First good shot point | | | | |
| 91028 | 03:56 | LGSP | Last Good Shot Point | | | | |
| 91028 | 03:56 | LSP | Last Shot Point | | | | |
| | | | VESSEL POSITION | | | | |
| | | | SP | Latitude (N) | Longitude (E) | | |
| | | | FSP | 91023 | -20° 12' 53.397" | -176° 19' 47.273" | |
| | | | LSP | 91028 | -20° 11' 34.716" | -176° 19' 24.948" | |
| | | | NAVIGATION OFFSET APPLIED | | | | |
| | | | NRP - COS | | | -160 | |
| | | | NRP - CNG | | | n/a | |
| | | | COS - CNG | | | n/a | |
| | | | NRP - CMP | | | n/a | |
| | | | General remarks: | | | | |
| | | | P1 P2 Lau_B018A.0.p190 Lau_B018A.0.p294 <div style="border: 1px solid black; padding: 5px; display: inline-block;">No Streamer</div> | | | | |
| Posnet locations & remarks: good - none - intermittent | | | Acoustic remarks: | | Langseih: LauPhas source: Bm.SCN(001) langseih.RTCN | | |
| Fallbuoy #1 | n/a | Gun string #1 | good | | | | |
| Fallbuoy #2 | n/a | Gun string #2 | bad | | | | |
| Fallbuoy #3 | n/a | Gun string #3 | good | disabled ast SOL for gun work | | | |
| Fallbuoy #4 | n/a | Gun string #4 | good | | | | |
| | | | line status: | | | | |

| | | | | | | | | | | | |
|-----|-----|-----------|-----------|--------|----|-----|------|------|-------|------|-------|
| Seq | 091 | Line Name | LAU_B018A | J- Day | 51 | DIR | 11 ° | FGSP | 91023 | LGSP | 91028 |
|-----|-----|-----------|-----------|--------|----|-----|------|------|-------|------|-------|

| | | | |
|--|----------------------|---|---------------------------------|
| Line Name: LAU_B019 | | DATE: 2009-02-20 | |
| Seq# 092 | | JULIAN DAY: 51 | |
| Line Brg: 101 ° | | SURVEY: Lau Basin | |
| CLIENT: National Science Foundation | | MGL0903 | |
| DC SOL: -2245.1m | DEPTH SOL: 2600.7m | NAVIGATION SYSTEM USED: C-Nav - Primary | |
| DC EOL: -625.7m | DEPTH EOL: 2250.2m | NAVIGATION SYSTEM USED: SeaPath 200 | |
| SMG SOL: 4.5 knots | FEATHER SOL: n/a * | NAVIGATION SYSTEM USED: Posnet | |
| SMG EOL: 4.6 knots | FEATHER EOL: n/a * | GRAVITY METER: BMG-3 | |
| WEATHER | | MAGNETOMETER: GeoMetrics G-862 | |
| WIND SOL: 12-13 knots | MAX FEATHER: n/a * | MAG DEC USED : 13 | |
| WIND EOL: 15.8 knots | | | |
| SEAS SOL: 4 ft | 00:00 - 12:00 cst =: | | |
| SEAS EOL: | 12:00 - 24:00 cst =: | | |
| SP | TIME(utc) | EVENT | COMMENTS |
| 92029 | 04:40 | FSP | Start of line: first shot point |
| 92029 | 04:40 | FGSP | First good shot point |
| 92115 | 10:00 | LQSP | Last Good Shot Point |
| 92115 | 10:00 | LSP | Last Shot Point |
| VESSEL POSITION | | | |
| | SP | Latitude (N) | Longitude (E) |
| FSP | 92029 | -20° 10' 25.616" | -176° 16' 58.525" |
| LSP | 92115 | -20° 15' 56.873" | -175° 52' 58.152" |
| NAVIGATION OFFSET APPLIED | | | |
| NRP - COS | | | -160 |
| NRP - CNG | | | n/a |
| COS - CNG | | | n/a |
| NRP - CMP | | | n/a |
| General remarks: | | | |
| <p>P1 P2</p> <p>Lau_B019.0.p190 Lau_B019.0.p294</p> <div style="border: 1px solid black; padding: 5px; display: inline-block;">No Streamer</div> | | | |
| Posnet locations & remarks: good - none - intermittent | | Acoustic remarks: | |
| Tailbuoy #1 | n/a | Gun string #1 | good |
| Tailbuoy #2 | n/a | Gun string #2 | bad |
| Tailbuoy #3 | n/a | Gun string #3 | good |
| Tailbuoy #4 | n/a | Gun string #4 | good |
| | | disabled ast SOL for gun work | |
| Langseth: LauPhas | | source: Bm.SCN(001) | langseth:RTCN |
| SP spacing: | | 500m | |
| line status: | | | |

Seq 092 Line Name LAU_B019 J- Day 51 DIR 101 ° FGSP 92029 LGSP 92115

| Seq# 093 | | Line Name: LAU_B019A | | <u>NAVIGATION</u> | | DATE: 2009-02-20 | |
|--|-----------|----------------------|--|---|------------------|-------------------|------|
| | | Line Brg: 11 ° | | <u>LINE LOGS</u> | | JULIAN DAY: 51 | |
| CLIENT: National Science Foundation | | | SURVEY: Lau Basin | | | MGL0903 | |
| DC SOL: -120.3 | | DEPTH SOL: 2265.8m | | NAVIGATION SYSTEM USED: C-Nav - Primary | | | |
| DC EOL: -305.0m | | DEPTH EOL: 2199.6m | | NAVIGATION SYSTEM USED: SeaPath 200 | | | |
| SMG SOL: 4.6 knots | | FEATHER SOL: n/a * | | NAVIGATION SYSTEM USED: Posnet | | | |
| SMG EOL: 4.8 knots | | FEATHER EOL: n/a * | | GRAVITY METER: BMG-3 | | | |
| WEATHER | | MAX FEATHER: n/a * | | MAGNETOMETER: GeoMetrics G-882 | | | |
| WIND SOL: 7.6 knots | | MAG DEC USED : 13 | | | | | |
| WIND EOL: 13.2 knots | | | | | | | |
| SEAS SOL: | | 00:00 - 12:00 cst =: | | | | | |
| SEAS EOL: | | 12:00 - 24:00 cst =: | | | | | |
| SP | TIME(utc) | EVENT | COMMENTS | | | | |
| 93023 | 10:04 | FSP | Start of line: first shot point | | | | |
| 93023 | 10:04 | FGSP | First good shot point | | | | |
| 93028 | 10:22 | LGSP | Last Good Shot Point | | | | |
| 93028 | 10:22 | LSP | Last Shot Point | | | | |
| | | | VESSEL POSITION | | | | |
| | | | SP | Latitude (N) | Longitude (E) | | |
| | | | FSP | 93023 | -20° 15' 43.629" | -175° 52' 44.906" | |
| | | | LSP | 93028 | -20° 14' 22.788" | -175° 52' 33.837" | |
| | | | NAVIGATION OFFSET APPLIED | | | | |
| | | | NRP - COS | | | | -160 |
| | | | NRP - CNG | | | | n/a |
| | | | COS - CNG | | | | n/a |
| | | | NRP - CMP | | | | n/a |
| | | | General remarks: | | | | |
| | | | P1 P2 Lau_B019A.0.p190 Lau_B019A.0.p294 <div style="border: 1px solid black; padding: 5px; display: inline-block;">No Streamer</div> | | | | |
| Posnet locations & remarks: good - none - intermittent | | Acoustic remarks: | | Langseth: LauPhas source: Bm.SCN(001) langseth.RTCN | | | |
| Tailbuoy #1 | n/a | Gun string #1 | good | | | | |
| Tailbuoy #2 | n/a | Gun string #2 | bad | | | | |
| Tailbuoy #3 | n/a | Gun string #3 | good | | | | |
| Tailbuoy #4 | n/a | Gun string #4 | good | | | | |
| | | | | SP spacing: 500m | | | |
| | | | | line status: | | | |

| | | | | | |
|-----|-----------|--------|------|-------|-------|
| Seq | Line Name | J- Day | DIR | FGSP | LGSP |
| 093 | LAU_B019A | 51 | 11 ° | 93023 | 93028 |

| Line Name: LAU_B022 | | NAVIGATION | | DATE: 2009-02-21 | |
|---|-----------|----------------------|---------------------------------|---|-------------------|
| Seq# 098 | | Line Brg: 281 ° | | LINE LOGS | |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | | MGL0903 | |
| DC SOL: 1.6 | | DEPTH SOL: 2271.2m | | NAVIGATION SYSTEM USED: C-Nav - Primary | |
| DC EOL: 210.6m | | DEPTH EOL: 1905.5m | | NAVIGATION SYSTEM USED: SeaPath 200 | |
| SMG SOL: 4.4 knots | | FEATHER SOL: n/a * | | NAVIGATION SYSTEM USED: Posnet | |
| SMG EOL: 4.4 knots | | FEATHER EOL: n/a * | | GRAVITY METER: BMG-3 | |
| WEATHER | | MAX FEATHER: n/a * | | MAGNETOMETER: GeoMetrics G-982 | |
| WIND SOL: 5.7 knots | | | | MAG DEC USED: 13 | |
| WIND EOL: 12 knots | | | | | |
| SEAS SOL: 1.5m | | 00:00 - 12:00 cst =: | | | |
| SEAS EOL: 1.5m | | 12:00 - 24:00 cst =: | | | |
| SP | TIME(utc) | EVENT | COMMENTS | VESSEL POSITION | |
| 98022 | 03:23 | FSP | Start of line: first shot point | SP | Latitude (N) |
| 98022 | 03:23 | FGSP | First good shot point | 98022 | -20° 11' 03.646" |
| 98060 | 11:39 | LGSP | Last Good Shot Point | LSP | -20° 03' 33.431" |
| 98060 | 11:39 | LSP | Last Shot Point | | -175° 43' 43.376" |
| | | | | | -176° 22' 30.562" |
| | | | | NAVIGATION OFFSET APPLIED | |
| | | | | NRP - COS | -160 |
| | | | | NRP - CNG | n/a |
| | | | | COS - CNG | n/a |
| | | | | NRP - CMP | n/a |
| General remarks: | | | | | |
| <p>P1 P2</p> <p>Lau_B022.0.p190 Lau_B022.0.p294</p> <p>No Streamer</p> | | | | | |
| Posnet locations & remarks: good - none - intermittent | | Acoustic remarks: | | Langseth: LauPhas source: Bm.SCN(001) langseth:RTCN | |
| Tailbuoy #1 | n/a | Gun string #1 | good | SP spacing: 500m | |
| Tailbuoy #2 | n/a | Gun string #2 | bad | line status: | |
| Tailbuoy #3 | n/a | Gun string #3 | good | | |
| Tailbuoy #4 | n/a | Gun string #4 | good | | |

Seq 098 Line Name LAU_B022 J- Day 52 DIR 281 ° FGSP 98022 LGSP 98160

| Seq# 099 | | Line Name: LAU_B022A | NAVIGATION | DATE: 2009-02-21 |
|---|----------------------|---|---------------------------------|-------------------------------|
| | | Line Brg: 11 ° | LINE LOGS | JULIAN DAY: 52 |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | | MGL0903 |
| DC SOL: 113.7 | DEPTH SOL: 1902.2m | NAVIGATION SYSTEM USED: C-Nav - Primary | | |
| DC EOL: 40.6m | DEPTH EOL: 1800.5m | NAVIGATION SYSTEM USED: SeaPath 200 | | |
| SMG SOL: 4.4 knots | FEATHER SOL: n/a * | NAVIGATION SYSTEM USED: Posnet | | |
| SMG EOL: 1.6 knots | FEATHER EOL: n/a * | GRAVITY METER: BMG-3 | | |
| WEATHER | MAX FEATHER: n/a * | MAGNETOMETER: GeoMetrics G-882 | | |
| WIND SOL: 14 knots | | MAG DEC USED : 13 | | |
| WIND EOL: 15 knots | | | | |
| SEAS SOL: 1.5m | 00:00 - 12:00 cst =: | | | |
| SEAS EOL: 1.5m | 12:00 - 24:00 cst =: | | | |
| SP | TIME(utc) | EVENT | COMMENTS | |
| 99023 | 11:47 | FSP | Start of line; first shot point | |
| 99023 | 11:47 | FGSP | First good shot point | |
| 99027 | 12:01 | LQSP | Last Good Shot Point | |
| 99027 | 12:01 | LSP | Last Shot Point | |
| VESSEL POSITION | | | | |
| | SP | Latitude (N) | Longitude (E) | |
| FSP | 99023 | -20° 03' 03.910" | -176° 22' 47.829" | |
| LSP | 99027 | -20° 01' 59.738" | -176° 22' 36.429" | |
| NAVIGATION OFFSET APPLIED | | | | |
| NRP - COS | | | -160 | |
| NRP - CNG | | | n/a | |
| COS - CNG | | | n/a | |
| NRP - CMP | | | n/a | |
| General remarks: | | | | |
| P1 P2 Lau_B022A.0.p190 Lau_B022A.0.p294 <div style="border: 1px solid black; padding: 5px; display: inline-block;">No Streamer</div> | | | | |
| Posnet locations & remarks: good - none - intermittent | | Acoustic remarks: | | |
| Tailbuoy #1 | n/a | Gun string #1 | good | |
| Tailbuoy #2 | n/a | Gun string #2 | bad | |
| Tailbuoy #3 | n/a | Gun string #3 | good | disabled ast SOL for gun work |
| Tailbuoy #4 | n/a | Gun string #4 | good | |
| Langsech: LauPhas | | source: Bm.SCN(001) | langsech: RTCN | |
| SP spacing: | | 500m | | |
| line status: | | | | |

Seq 099 Line Name LAU_B022A J- Day 52 DIR 11 ° FGSP 99023 LGSP 99027

| | | | | | | |
|--|-----------|--|---------------------------------|---|------------------------------------|--|
| <p>Seq# 100</p> | | Line Name: LAU_B023A Line Brg: 101 ° | | <p><u>NAVIGATION</u></p> <p><u>LINE LOGS</u></p> | DATE: 2009-02-21 JULIAN DAY: 52 | |
| CLIENT: National Science Foundation | | | SURVEY: Lau Basin | | MGL0903 | |
| DC SOL: -14.1 DC EOL: 298.6m SMG SOL: 4.7 knots SMG EOL: 4.3 knots | | DEPTH SOL: 1909.0m DEPTH EOL: 2559.9m FEATHER SOL: n/a * FEATHER EOL: n/a * MAX FEATHER: n/a * | | NAVIGATION SYSTEM USED: C-Nav - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Posnet GRAVITY METER: BMG-3 MAGNETOMETER: GeoMetrics G-882 MAG DEC USED : 13 | | |
| <p>WEATHER</p> WIND SOL: 18 knots WIND EOL: 17 knots SEAS SOL: 1.5m SEAS EOL: 1.5m 00:00 - 12:00 cst = 12:00 - 24:00 cst = Olga Hernandez, Regan Austin | | | | | | |
| SP | TIME(utc) | EVENT | COMMENTS | | | |
| 100024 | 12:16 | FSP | Start of line: first shot point | | | |
| 100024 | 12:16 | FGSP | First good shot point | | | |
| 100096 | 16:35 | LGSP | Last Good Shot Point | | | |
| 100096 | 16:35 | LSP | Last Shot Point | | | |
| VESSEL POSITION | | | | | | |
| | SP | Latitude (N) | Longitude (E) | | | |
| FSP | 100024 | -20° 01' 31.020" | -176° 21' 44.545" | | | |
| LSP | 100096 | -20° 05' 32.290" | -176° 01' 26.588" | | | |
| NAVIGATION OFFSET APPLIED | | | | | | |
| NRP - COS | | | | | -160 | |
| NRP - CNG | | | | | n/a | |
| COS - CNG | | | | | n/a | |
| NRP - CMP | | | | | n/a | |
| General remarks: <div style="text-align: center; margin-top: 20px;"> No Streamer </div> | | | | | | |
| Point locations & remarks: good - none - intermittent | | | Acoustic remarks: | | | |
| Fallbuoy #1 | n/a | Gun string #1 | good | | | |
| Fallbuoy #2 | n/a | Gun string #2 | bad | | | |
| Fallbuoy #3 | n/a | Gun string #3 | good | | | |
| Fallbuoy #4 | n/a | Gun string #4 | good | | | |
| Line name: LauPhase | | | source_fm.SCN(001) | | langseth_RTCN | |
| SP spacing: 500m | | | | | | |
| line status: | | | | | | |
| Seq | Line Name | J- Day | DIR | FGSP | LGSP | |
| 100 | LAU_B023A | 52 | 101 ° | 100024 | 100096 | |

| Seq #103 | | Line Name: LAU_B007R | NAVIGATION | | DATE: 2009-02-22 | | | | | | | | | | | | | | | | | | |
|--|-----------------------------------|--|---------------------------------|-------------------|------------------|---------------------------|-----|------------------|------------------|--------------|---------------|---------------|-------------------------|-------------------|-----------|-------------------------|-------------------|-------------|-------|---------------|------|---|--|
| | | Line Brg: 11 ° | LINE LOGS | | JULIAN DAY: 53 | | | | | | | | | | | | | | | | | | |
| CLIENT: National Science Foundation | | SURVEY: Lau Basin | | MGL0903 | | | | | | | | | | | | | | | | | | | |
| DC SOL: 134.5 | DEPTH SOL: 2234.0m | NAVIGATION SYSTEM USED: C-Nav - Primary | | | | | | | | | | | | | | | | | | | | | |
| DC EOL: 212.2 | DEPTH EOL: 2564.8m | NAVIGATION SYSTEM USED: SeaPath 200 | | | | | | | | | | | | | | | | | | | | | |
| SMG SOL: 4.5 knots | FEATHER SOL: n/a ° | NAVIGATION SYSTEM USED: Posnet | | | | | | | | | | | | | | | | | | | | | |
| SMG EOL: 4.5 knots | FEATHER EOL: n/a ° | GRAVITY METER: BMG-3 | | | | | | | | | | | | | | | | | | | | | |
| WEATHER | MAX FEATHER: n/a ° | MAGNETOMETER: GeoMetrics G-882 | | | | | | | | | | | | | | | | | | | | | |
| WIND SOL: 10.9 knots | | MAG DEC USED: 13 | | | | | | | | | | | | | | | | | | | | | |
| WIND EOL: 13 knots | | | | | | | | | | | | | | | | | | | | | | | |
| SEAS SOL: 1.0m | 00:00 - 12:00 cst => | | | | | | | | | | | | | | | | | | | | | | |
| SEAS EOL: 1.5m | 12:00 - 24:00 cst => Regan Austin | | | | | | | | | | | | | | | | | | | | | | |
| SP | TIME(utc) | EVENT | COMMENTS | | | | | | | | | | | | | | | | | | | | |
| 103024 | 04:06 | FSP | Start of line; first shot point | | | | | | | | | | | | | | | | | | | | |
| 103024 | 04:06 | FGSP | First good shot point | | | | | | | | | | | | | | | | | | | | |
| 103024 | 14:53 | LQSP | Last Good Shot Point | | | | | | | | | | | | | | | | | | | | |
| 103024 | 14:53 | LSP | Last Shot Point | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">VESSEL POSITION</th> </tr> <tr> <th>SP</th> <th>Latitude (N)</th> <th>Longitude (E)</th> </tr> </thead> <tbody> <tr> <td>FSP</td> <td>103024 -20° 53' 14.050"</td> <td>-176° 13' 44.730"</td> </tr> <tr> <td>LSP</td> <td>103024 -20° 05' 28.140"</td> <td>-176° 03' 15.841"</td> </tr> </tbody> </table> | | | | VESSEL POSITION | | | SP | Latitude (N) | Longitude (E) | FSP | 103024 -20° 53' 14.050" | -176° 13' 44.730" | LSP | 103024 -20° 05' 28.140" | -176° 03' 15.841" | | | | | | |
| VESSEL POSITION | | | | | | | | | | | | | | | | | | | | | | | |
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| | | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">NAVIGATION OFFSET APPLIED</th> </tr> </thead> <tbody> <tr> <td>NRP - COS</td> <td>_____</td> <td>-160</td> </tr> <tr> <td>NRP - CNG</td> <td>_____</td> <td>n/a</td> </tr> <tr> <td>COS - CNG</td> <td>_____</td> <td>n/a</td> </tr> <tr> <td>NRP - CMP</td> <td>_____</td> <td>n/a</td> </tr> </tbody> </table> | | | | NAVIGATION OFFSET APPLIED | | | NRP - COS | _____ | -160 | NRP - CNG | _____ | n/a | COS - CNG | _____ | n/a | NRP - CMP | _____ | n/a | | | |
| NAVIGATION OFFSET APPLIED | | | | | | | | | | | | | | | | | | | | | | | |
| NRP - COS | _____ | -160 | | | | | | | | | | | | | | | | | | | | | |
| NRP - CNG | _____ | n/a | | | | | | | | | | | | | | | | | | | | | |
| COS - CNG | _____ | n/a | | | | | | | | | | | | | | | | | | | | | |
| NRP - CMP | _____ | n/a | | | | | | | | | | | | | | | | | | | | | |
| | | <p>General remarks:</p> <div style="text-align: center; margin-top: 20px;"> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>E1</th> <th>E2</th> </tr> </thead> <tbody> <tr> <td>Lau_B007R.o.p190</td> <td>Lau_B007R.o.p294</td> </tr> </tbody> </table> <div style="border: 2px solid black; padding: 5px; width: fit-content; margin: 10px auto; text-align: center;">No Streamer</div> </div> | | | | E1 | E2 | Lau_B007R.o.p190 | Lau_B007R.o.p294 | | | | | | | | | | | | | | |
| E1 | E2 | | | | | | | | | | | | | | | | | | | | | | |
| Lau_B007R.o.p190 | Lau_B007R.o.p294 | | | | | | | | | | | | | | | | | | | | | | |
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| General locations & remarks: good - none - intermittent | | Acoustic remarks: | | | | | | | | | | | | | | | | | | | | | |
| Tailbuoy #1 | n/a | Gun string #1 | good | | | | | | | | | | | | | | | | | | | | |
| Tailbuoy #2 | n/a | Gun string #2 | bad | | | | | | | | | | | | | | | | | | | | |
| Tailbuoy #3 | n/a | Gun string #3 | good | | | | | | | | | | | | | | | | | | | | |
| Tailbuoy #4 | n/a | Gun string #4 | good | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | |
|-----|-----|-----------|-----------|-------|----|-----|----|------|--------|------|--------|
| Seq | 103 | Line Name | LAU_B007R | J-Day | 53 | DIR | 11 | FGSP | 103024 | LGSP | 103024 |
|-----|-----|-----------|-----------|-------|----|-----|----|------|--------|------|--------|

