

6/29/2023

Cruise Report
AX18

Version: AMVERSEAS_10.0.0.0.0.0.0.0.0

Cruise Line: AX18
Transect: 01
Start Date: 06/20/2023
End Date: 07/01/2023
Company Name: MOL
Ship Name: Liberty Ace
Call Sign: 7KAY
IMO: 9293650
Rider: Chris Jacobs
jcbchr007@gmail.com
+27 76 152 9844

XBTs Deployed:

Number of launches: 260

A total of 226 XBT(s) have been deployed.

Note: All deployments were done via the autolauncher. The handlauncher is faulty and needs attention.

Drifters Deployed:

A total of 0 Drifter(s) have been deployed.

Note: None

Argos Deployed:

A total of 0 Argo(s) have been deployed.

Note: None

Transmission:

Note: No transmission available due to GPS software being outdated. Could not run Iridium for position and transmission.

Narrative:

Leaving Brazil, it was noticed that not all of the required equipment and sufficient probes were not loaded onto the vessel. Along with this, the software for the Garmin GPS and computer were outdated and needed to be updated. As a result, data was only able to be collected after 4 days, hence the gap in the beginning of the cruise.

Deployments were done every 30km until 0°E and every 15km thereafter until approximately 18,5°E. It was decided to do the high density deployments at 15km instead of the required 10km as there was not enough probes to collect until the required destination. A separate report will be submitted regarding the

missing, faulty and outdated software.

Inclement weather and strong winds caused some deployments to give erroneous results however this was only the minority of deployments (<2%). Overall, despite the problems faced, the cruise was a success.

A massive thank you to the crew and captain of the Liberty Ace without whose resources and assistance this cruise, albeit a partial cruise, would not have been possible.

No transmission available due to GPS firmware being outdated. Could not run Iridium for position and transmission simultaneously.

1. Is there any weather related issue to mention?

The last 2 to 3 days, there was inclement weather which hampered the data of a few drops.

2. Is there any hardware/software malfunction to mention?

The GPS firmware was not updated and as a result transmissions could not be done.

3. Is there any gap in the cruise line because of forgot to drop the XBT's on scheduled time?

(example: fell sleep, simply forgot to drop, malfunction in instruments prevented to drop, etc)
Because of the missing CAT5 cable as well as various other equipment issues (Handlauncher not working) as well as no internet or way of communicating with Zach and Pedro, there were no deployments for the first 2 days of the cruise. There was not enough XBTs to complete an entire cruise line, hence the spaced high density deployment after 0E and the data ending at 18,05E.

4. Is there any case not enough XBT's left toward the destination port?

Not enough XBTs were loaded onto the vessel before the cruise began.

5. Is there any case that one particular tube showing consistent bad profiles?

More recently Tube 7 started showing signs of no splash.

6. Is there any early splash (i.e. premature launch) to mention?

No

7. Recommendations

Please make sure that all the necessary equipment is loaded on board as well as sufficient XBTs for the cruise. There should also be spare equipment (antenna, cables, etc) so that switching out can be done. Please also make sure that all the necessary software is up to date. Internet is not always available onboard and thus doing updates is difficult.

8. Supplies

Please double check that enough spare nuts, bolts, screws, and smaller items are available. Ensure that the pipe on which the AL rests has a groove on the bottom so that it is easier and more stable to attach to the vessel. Please add a few U bolts so that the poles for the antenna and AL can be attached easier. Also please ensure that there are different size hose clamps are available.

6/29/2023

Cruise Report
AX18

XBT Deployment Log

Launch	Date	Time	Latitude	Longitude	Tube	Probe type	File name
26	11/06/2003	17:01:00	26 38.69 S	038 25.63 W	1	Sippican Deep Blue	7KAY_20031106170100_N01_XBT.bin
27	11/06/2003	18:27:00	26 43.17 S	037 58.30 W	1	Sippican Deep Blue	7KAY_20031106182700_N02_XBT.bin
28	11/06/2003	19:27:00	26 46.49 S	037 38.81 W	2	Sippican Deep Blue	7KAY_20031106192700_N03_XBT.bin
30	11/06/2003	21:27:00	26 52.13 S	036 59.16 W	4	Sippican Deep Blue	7KAY_20031106212700_N04_XBT.bin
31	11/06/2003	22:28:00	26 55.10 S	036 39.26 W	5	Sippican Deep Blue	7KAY_20031106222800_N05_XBT.bin
32	11/06/2003	23:27:00	26 58.34 S	036 19.44 W	6	Sippican Deep Blue	7KAY_20031106232700_N06_XBT.bin
33	11/07/2003	00:27:00	27 01.11 S	035 59.88 W	7	Sippican Deep Blue	7KAY_20031107002700_N01_XBT.bin
34	11/07/2003	01:27:00	27 04.06 S	035 40.31 W	8	Sippican Deep Blue	7KAY_20031107012700_N02_XBT.bin
35	11/07/2003	02:27:00	27 07.14 S	035 20.78 W	1	Sippican Deep Blue	7KAY_20031107022700_N03_XBT.bin
36	11/07/2003	03:27:00	27 10.18 S	035 01.86 W	2	Sippican Deep Blue	7KAY_20031107032700_N04_XBT.bin
37	11/07/2003	04:27:00	27 13.01 S	034 42.69 W	3	Sippican Deep Blue	7KAY_20031107042700_N05_XBT.bin
38	11/07/2003	05:27:00	27 15.86 S	034 23.62 W	4	Sippican Deep Blue	7KAY_20031107052700_N06_XBT.bin
39	11/07/2003	06:27:00	27 18.91 S	034 04.49 W	5	Sippican Deep Blue	7KAY_20031107062700_N07_XBT.bin
40	11/07/2003	07:27:00	27 21.95 S	033 45.16 W	6	Sippican Deep Blue	7KAY_20031107072700_N08_XBT.bin
41	11/07/2003	08:27:00	27 24.86 S	033 26.00 W	7	Sippican Deep Blue	7KAY_20031107082700_N09_XBT.bin
42	11/07/2003	09:27:00	27 27.66 S	033 06.72 W	8	Sippican Deep Blue	7KAY_20031107092700_N10_XBT.bin
43	11/07/2003	10:27:00	27 30.60 S	032 47.31 W	1	Sippican Deep Blue	7KAY_20031107102700_N11_XBT.bin
44	06/23/2023	12:04:00	27 38.08 S	031 56.50 W	2	Sippican Deep Blue	7KAY_20230623120400_N01_XBT.bin
45	06/23/2023	10:55:00	27 32.03 S	032 39.19 W	3	Sippican Deep Blue	7KAY_20230623105500_N02_XBT.bin
46	06/23/2023	12:02:00	27 35.76 S	032 16.53 W	4	Sippican Deep Blue	7KAY_20230623120200_N03_XBT.bin
47	06/23/2023	13:07:00	27 38.11 S	031 55.34 W	5	Sippican Deep Blue	7KAY_20230623130700_N04_XBT.bin
48	06/23/2023	14:09:00	27 41.33 S	031 35.29 W	6	Sippican Deep Blue	7KAY_20230623140900_N05_XBT.bin
49	06/23/2023	15:05:00	27 43.63 S	031 17.28 W	7	Sippican Deep Blue	7KAY_20230623150500_N06_XBT.bin
50	06/23/2023	17:03:00	27 50.32 S	030 39.80 W	8	Sippican Deep Blue	7KAY_20230623170300_N07_XBT.bin
51	06/23/2023	18:03:00	27 53.25 S	030 20.47 W	1	Sippican Deep Blue	

7KAY_20230623180300_N08_XBT.bin	52	06/23/2023	19:03:00	27 56.41 S	030 01.14 W	2	Sippican Deep Blue
7KAY_20230623190300_N09_XBT.bin	53	06/23/2023	20:03:00	27 59.52 S	029 41.58 W	3	Sippican Deep Blue
7KAY_20230623200300_N10_XBT.bin	54	06/23/2023	21:03:00	28 01.96 S	029 22.04 W	4	Sippican Deep Blue
7KAY_20230623210300_N11_XBT.bin	55	06/23/2023	22:03:00	28 05.24 S	029 02.63 W	5	Sippican Deep Blue
7KAY_20230623220300_N12_XBT.bin	56	06/23/2023	23:03:00	28 07.89 S	028 43.18 W	6	Sippican Deep Blue
7KAY_20230623230300_N13_XBT.bin	57	06/24/2023	00:03:00	28 10.84 S	028 23.75 W	7	Sippican Deep Blue
7KAY_20230624000300_N01_XBT.bin	58	06/24/2023	01:03:00	28 13.88 S	028 04.05 W	8	Sippican Deep Blue
7KAY_20230624010300_N02_XBT.bin	59	06/24/2023	02:03:00	28 16.77 S	027 44.65 W	1	Sippican Deep Blue
7KAY_20230624020300_N03_XBT.bin	60	06/24/2023	03:03:00	28 19.66 S	027 25.14 W	2	Sippican Deep Blue
7KAY_20230624030300_N04_XBT.bin	61	06/24/2023	04:03:00	28 22.99 S	027 05.70 W	3	Sippican Deep Blue
7KAY_20230624040300_N05_XBT.bin	62	06/24/2023	05:03:00	28 25.63 S	026 46.00 W	4	Sippican Deep Blue
7KAY_20230624050300_N06_XBT.bin	63	06/24/2023	06:03:00	28 28.54 S	026 26.66 W	5	Sippican Deep Blue
7KAY_20230624060300_N07_XBT.bin	65	06/24/2023	08:03:00	28 34.67 S	025 47.56 W	7	Sippican Deep Blue
7KAY_20230624080300_N08_XBT.bin	66	06/24/2023	09:03:00	28 37.86 S	025 27.96 W	8	Sippican Deep Blue
7KAY_20230624090300_N09_XBT.bin	67	06/24/2023	10:03:00	28 40.50 S	025 08.14 W	1	Sippican Deep Blue
7KAY_20230624100300_N10_XBT.bin	68	06/24/2023	11:03:00	28 43.56 S	024 47.97 W	2	Sippican Deep Blue
7KAY_20230624110300_N11_XBT.bin	69	06/24/2023	12:03:00	28 46.40 S	024 27.72 W	3	Sippican Deep Blue
7KAY_20230624120300_N12_XBT.bin	70	06/24/2023	13:03:00	28 49.64 S	024 07.38 W	4	Sippican Deep Blue
7KAY_20230624130300_N13_XBT.bin	71	06/24/2023	14:03:00	28 52.78 S	023 46.81 W	5	Sippican Deep Blue
7KAY_20230624140300_N14_XBT.bin	72	06/24/2023	15:03:00	28 55.83 S	023 26.07 W	6	Sippican Deep Blue
7KAY_20230624150300_N15_XBT.bin	73	06/24/2023	16:03:00	28 59.09 S	023 05.13 W	7	Sippican Deep Blue
7KAY_20230624160300_N16_XBT.bin	74	06/24/2023	17:03:00	29 02.26 S	022 44.21 W	8	Sippican Deep Blue
7KAY_20230624170300_N17_XBT.bin	75	06/24/2023	18:03:00	29 05.28 S	022 23.31 W	1	Sippican Deep Blue
7KAY_20230624180300_N18_XBT.bin	76	06/24/2023	19:03:00	29 08.24 S	022 02.20 W	2	Sippican Deep Blue
7KAY_20230624190300_N19_XBT.bin	77	06/24/2023	20:03:00	29 11.70 S	021 41.57 W	3	Sippican Deep Blue
7KAY_20230624200300_N20_XBT.bin							

78	06/24/2023	21:03:00	29 14.72 S	021 20.83 W	4	Sippican Deep Blue
7KAY_20230624210300_N21_XBT.bin						
79	06/24/2023	22:03:00	29 17.94 S	021 00.27 W	5	Sippican Deep Blue
7KAY_20230624220300_N22_XBT.bin						
80	06/24/2023	23:03:00	29 20.89 S	020 39.74 W	6	Sippican Deep Blue
7KAY_20230624230300_N23_XBT.bin						
81	06/25/2023	00:03:00	29 24.02 S	020 19.26 W	1	Sippican Deep Blue
7KAY_20230625000300_N01_XBT.bin						
82	06/25/2023	01:03:00	29 27.00 S	019 59.45 W	2	Sippican Deep Blue
7KAY_20230625010300_N02_XBT.bin						
83	06/25/2023	02:03:00	29 30.05 S	019 39.36 W	3	Sippican Deep Blue
7KAY_20230625020300_N03_XBT.bin						
84	06/25/2023	03:03:00	29 33.04 S	019 18.92 W	4	Sippican Deep Blue
7KAY_20230625030300_N04_XBT.bin						
85	06/25/2023	04:03:00	29 36.07 S	018 58.55 W	5	Sippican Deep Blue
7KAY_20230625040300_N05_XBT.bin						
86	06/25/2023	05:03:00	29 39.91 S	018 38.41 W	6	Sippican Deep Blue
7KAY_20230625050300_N06_XBT.bin						
87	06/25/2023	06:03:00	29 42.41 S	018 17.95 W	7	Sippican Deep Blue
7KAY_20230625060300_N07_XBT.bin						
88	06/25/2023	07:03:00	29 45.37 S	017 57.59 W	8	Sippican Deep Blue
7KAY_20230625070300_N08_XBT.bin						
89	06/25/2023	08:03:00	29 48.86 S	017 37.03 W	1	Sippican Deep Blue
7KAY_20230625080300_N09_XBT.bin						
90	06/25/2023	09:03:00	29 52.31 S	017 16.41 W	2	Sippican Deep Blue
7KAY_20230625090300_N10_XBT.bin						
91	06/25/2023	10:03:00	29 55.20 S	016 55.35 W	3	Sippican Deep Blue
7KAY_20230625100300_N11_XBT.bin						
92	06/25/2023	11:03:00	29 57.84 S	016 34.33 W	4	Sippican Deep Blue
7KAY_20230625110300_N12_XBT.bin						
93	06/25/2023	12:03:00	30 00.91 S	016 13.45 W	5	Sippican Deep Blue
7KAY_20230625120300_N13_XBT.bin						
94	06/25/2023	13:03:00	30 03.95 S	015 52.52 W	6	Sippican Deep Blue
7KAY_20230625130300_N14_XBT.bin						
95	06/25/2023	14:03:00	30 07.05 S	015 31.35 W	7	Sippican Deep Blue
7KAY_20230625140300_N15_XBT.bin						
96	06/25/2023	15:03:00	30 10.36 S	015 10.30 W	8	Sippican Deep Blue
7KAY_20230625150300_N16_XBT.bin						
97	06/25/2023	16:03:00	30 13.33 S	014 49.32 W	1	Sippican Deep Blue
7KAY_20230625160300_N17_XBT.bin						
98	06/25/2023	17:03:00	30 16.52 S	014 28.96 W	2	Sippican Deep Blue
7KAY_20230625170300_N18_XBT.bin						
99	06/25/2023	18:03:00	30 20.61 S	014 08.92 W	3	Sippican Deep Blue
7KAY_20230625180300_N19_XBT.bin						
100	06/25/2023	19:03:00	30 23.30 S	013 48.47 W	4	Sippican Deep Blue
7KAY_20230625190300_N20_XBT.bin						
101	06/25/2023	20:03:00	30 25.52 S	013 27.79 W	5	Sippican Deep Blue
7KAY_20230625200300_N21_XBT.bin						
102	06/25/2023	21:03:00	30 28.50 S	013 07.37 W	6	Sippican Deep Blue
7KAY_20230625210300_N22_XBT.bin						
103	06/25/2023	22:03:00	30 31.61 S	012 46.71 W	7	Sippican Deep Blue

129	06/27/2023	00:03:00	31 53.66 S	003 30.01 W	1	Sippican Deep Blue
7KAY_20230627000300_N01_XBT.bin						
130	06/27/2023	01:03:00	31 56.66 S	003 08.31 W	2	Sippican Deep Blue
7KAY_20230627010300_N02_XBT.bin						
131	06/27/2023	02:03:00	31 59.92 S	002 46.70 W	3	Sippican Deep Blue
7KAY_20230627020300_N03_XBT.bin						
132	06/27/2023	03:03:00	32 03.04 S	002 25.10 W	4	Sippican Deep Blue
7KAY_20230627030300_N04_XBT.bin						
133	06/27/2023	04:03:00	32 06.26 S	002 03.13 W	5	Sippican Deep Blue
7KAY_20230627040300_N05_XBT.bin						
134	06/27/2023	05:03:00	32 09.62 S	001 40.84 W	6	Sippican Deep Blue
7KAY_20230627050300_N06_XBT.bin						
135	06/27/2023	06:03:00	32 12.68 S	001 18.82 W	7	Sippican Deep Blue
7KAY_20230627060300_N07_XBT.bin						
136	06/27/2023	07:03:00	32 16.28 S	000 57.04 W	8	Sippican Deep Blue
7KAY_20230627070300_N08_XBT.bin						
137	06/27/2023	08:03:00	32 19.36 S	000 34.95 W	1	Sippican Deep Blue
7KAY_20230627080300_N09_XBT.bin						
138	06/27/2023	09:03:00	32 22.17 S	000 13.38 W	2	Sippican Deep Blue
7KAY_20230627090300_N10_XBT.bin						
139	06/27/2023	10:03:00	32 25.39 S	000 07.51 E	3	Sippican Deep Blue
7KAY_20230627100300_N11_XBT.bin						
140	06/27/2023	11:03:00	32 28.29 S	000 28.25 E	4	Sippican Deep Blue
7KAY_20230627110300_N12_XBT.bin						
141	06/27/2023	11:33:00	32 29.82 S	000 38.52 E	5	Sippican Deep Blue
7KAY_20230627113300_N13_XBT.bin						
142	06/27/2023	12:03:00	32 31.48 S	000 48.95 E	6	Sippican Deep Blue
7KAY_20230627120300_N14_XBT.bin						
143	06/27/2023	12:33:00	32 32.82 S	000 59.39 E	7	Sippican Deep Blue
7KAY_20230627123300_N15_XBT.bin						
144	06/27/2023	13:03:00	32 34.31 S	001 09.70 E	8	Sippican Deep Blue
7KAY_20230627130300_N16_XBT.bin						
145	06/27/2023	13:33:00	32 35.88 S	001 20.02 E	1	Sippican Deep Blue
7KAY_20230627133300_N17_XBT.bin						
146	06/27/2023	14:03:00	32 37.37 S	001 30.36 E	2	Sippican Deep Blue
7KAY_20230627140300_N18_XBT.bin						
147	06/27/2023	14:33:00	32 38.86 S	001 40.66 E	3	Sippican Deep Blue
7KAY_20230627143300_N19_XBT.bin						
148	06/27/2023	15:03:00	32 40.28 S	001 50.85 E	4	Sippican Deep Blue
7KAY_20230627150300_N20_XBT.bin						
149	06/27/2023	15:33:00	32 41.78 S	002 00.99 E	1	Sippican Deep Blue
7KAY_20230627153300_N21_XBT.bin						
150	06/27/2023	16:03:00	32 43.33 S	002 10.98 E	2	Sippican Deep Blue
7KAY_20230627160300_N22_XBT.bin						
151	06/27/2023	16:33:00	32 44.67 S	002 21.06 E	3	Sippican Deep Blue
7KAY_20230627163300_N23_XBT.bin						
152	06/27/2023	17:03:00	32 46.25 S	002 31.17 E	4	Sippican Deep Blue
7KAY_20230627170300_N24_XBT.bin						
153	06/27/2023	17:33:00	32 47.73 S	002 41.27 E	5	Sippican Deep Blue
7KAY_20230627173300_N25_XBT.bin						
154	06/27/2023	18:03:00	32 49.27 S	002 51.49 E	6	Sippican Deep Blue

181	06/28/2023	06:33:00	33 24.35 S	006 52.87 E	1	Sippican Deep Blue
7KAY_20230628063300_N14_XBT.bin						
182	06/28/2023	07:03:00	33 25.48 S	007 00.38 E	2	Sippican Deep Blue
7KAY_20230628070300_N15_XBT.bin						
183	06/28/2023	07:33:00	33 26.45 S	007 08.21 E	3	Sippican Deep Blue
7KAY_20230628073300_N16_XBT.bin						
184	06/28/2023	08:03:00	33 27.41 S	007 16.22 E	4	Sippican Deep Blue
7KAY_20230628080300_N17_XBT.bin						
185	06/28/2023	08:33:00	33 28.38 S	007 24.15 E	5	Sippican Deep Blue
7KAY_20230628083300_N18_XBT.bin						
187	06/28/2023	09:33:00	33 30.85 S	007 40.61 E	7	Sippican Deep Blue
7KAY_20230628093300_N19_XBT.bin						
188	06/28/2023	10:03:00	33 32.26 S	007 50.27 E	8	Sippican Deep Blue
7KAY_20230628100300_N20_XBT.bin						
189	06/28/2023	10:33:00	33 33.63 S	007 59.99 E	1	Sippican Deep Blue
7KAY_20230628103300_N21_XBT.bin						
190	06/28/2023	11:03:00	33 35.09 S	008 09.37 E	2	Sippican Deep Blue
7KAY_20230628110300_N22_XBT.bin						
191	06/28/2023	11:33:00	33 36.29 S	008 18.85 E	3	Sippican Deep Blue
7KAY_20230628113300_N23_XBT.bin						
192	06/28/2023	12:03:00	33 37.75 S	008 28.43 E	4	Sippican Deep Blue
7KAY_20230628120300_N24_XBT.bin						
193	06/28/2023	12:33:00	33 38.99 S	008 38.01 E	5	Sippican Deep Blue
7KAY_20230628123300_N25_XBT.bin						
194	06/28/2023	13:03:00	33 40.39 S	008 47.74 E	6	Sippican Deep Blue
7KAY_20230628130300_N26_XBT.bin						
195	06/28/2023	13:33:00	33 41.87 S	008 57.29 E	7	Sippican Deep Blue
7KAY_20230628133300_N27_XBT.bin						
196	06/28/2023	14:03:00	33 43.30 S	009 07.17 E	8	Sippican Deep Blue
7KAY_20230628140300_N28_XBT.bin						
197	06/28/2023	14:33:00	33 44.66 S	009 17.06 E	1	Sippican Deep Blue
7KAY_20230628143300_N29_XBT.bin						
198	06/28/2023	15:03:00	33 46.12 S	009 26.81 E	2	Sippican Deep Blue
7KAY_20230628150300_N30_XBT.bin						
199	06/28/2023	15:33:00	33 47.53 S	009 36.66 E	3	Sippican Deep Blue
7KAY_20230628153300_N31_XBT.bin						
200	06/28/2023	16:03:00	33 48.63 S	009 46.51 E	4	Sippican Deep Blue
7KAY_20230628160300_N32_XBT.bin						
201	06/28/2023	16:33:00	33 49.74 S	009 56.43 E	5	Sippican Deep Blue
7KAY_20230628163300_N33_XBT.bin						
202	06/28/2023	17:03:00	33 51.22 S	010 06.15 E	6	Sippican Deep Blue
7KAY_20230628170300_N34_XBT.bin						
204	06/28/2023	17:36:00	33 53.12 S	010 16.62 E	8	Sippican Deep Blue
7KAY_20230628173600_N35_XBT.bin						
205	06/28/2023	18:36:00	33 56.01 S	010 34.86 E	1	Sippican Deep Blue
7KAY_20230628183600_N36_XBT.bin						
206	06/28/2023	19:06:00	33 57.37 S	010 44.12 E	2	Sippican Deep Blue
7KAY_20230628190600_N37_XBT.bin						
207	06/28/2023	19:36:00	33 58.54 S	010 53.29 E	3	Sippican Deep Blue
7KAY_20230628193600_N38_XBT.bin						
208	06/28/2023	20:06:00	33 59.74 S	011 01.91 E	4	Sippican Deep Blue

7KAY_20230628200600_N39_XBT.bin	209	06/28/2023	20:36:00	34 00.72 S	011 09.56 E	5	Sippican Deep Blue
7KAY_20230628203600_N40_XBT.bin	210	06/28/2023	21:06:00	34 01.82 S	011 17.15 E	6	Sippican Deep Blue
7KAY_20230628210600_N41_XBT.bin	211	06/28/2023	21:36:00	34 02.95 S	011 24.71 E	1	Sippican Deep Blue
7KAY_20230628213600_N42_XBT.bin	212	06/28/2023	22:06:00	34 04.10 S	011 32.33 E	2	Sippican Deep Blue
7KAY_20230628220600_N43_XBT.bin	214	06/28/2023	22:39:00	34 05.28 S	011 40.98 E	4	Sippican Deep Blue
7KAY_20230628223900_N44_XBT.bin	215	06/28/2023	23:06:00	34 06.28 S	011 48.24 E	5	Sippican Deep Blue
7KAY_20230628230600_N45_XBT.bin	216	06/28/2023	23:36:00	34 07.42 S	011 56.59 E	6	Sippican Deep Blue
7KAY_20230628233600_N46_XBT.bin	217	06/29/2023	00:06:00	34 08.62 S	012 05.26 E	7	Sippican Deep Blue
7KAY_20230629000600_N01_XBT.bin	218	06/29/2023	00:36:00	34 09.76 S	012 14.14 E	8	Sippican Deep Blue
7KAY_20230629003600_N02_XBT.bin	219	06/29/2023	01:06:00	34 11.13 S	012 22.75 E	1	Sippican Deep Blue
7KAY_20230629010600_N03_XBT.bin	220	06/29/2023	01:36:00	34 12.49 S	012 30.93 E	1	Sippican Deep Blue
7KAY_20230629013600_N04_XBT.bin	221	06/29/2023	02:06:00	34 13.50 S	012 39.05 E	2	Sippican Deep Blue
7KAY_20230629020600_N05_XBT.bin	222	06/29/2023	02:36:00	34 14.59 S	012 47.49 E	3	Sippican Deep Blue
7KAY_20230629023600_N06_XBT.bin	223	06/29/2023	03:06:00	34 15.86 S	012 56.09 E	4	Sippican Deep Blue
7KAY_20230629030600_N07_XBT.bin	225	06/29/2023	03:39:00	34 17.33 S	013 05.77 E	6	Sippican Deep Blue
7KAY_20230629033900_N08_XBT.bin	226	06/29/2023	04:06:00	34 18.50 S	013 13.40 E	7	Sippican Deep Blue
7KAY_20230629040600_N09_XBT.bin	227	06/29/2023	04:36:00	34 19.62 S	013 21.89 E	8	Sippican Deep Blue
7KAY_20230629043600_N10_XBT.bin	228	06/29/2023	05:36:00	34 21.36 S	013 39.22 E	1	Sippican Deep Blue
7KAY_20230629053600_N11_XBT.bin	229	06/29/2023	06:06:00	34 21.94 S	013 47.92 E	2	Sippican Deep Blue
7KAY_20230629060600_N12_XBT.bin	230	06/29/2023	06:36:00	34 23.55 S	013 56.11 E	3	Sippican Deep Blue
7KAY_20230629063600_N13_XBT.bin	231	06/29/2023	07:06:00	34 25.19 S	014 04.32 E	4	Sippican Deep Blue
7KAY_20230629070600_N14_XBT.bin	232	06/29/2023	07:36:00	34 26.78 S	014 12.68 E	5	Sippican Deep Blue
7KAY_20230629073600_N15_XBT.bin	233	06/29/2023	08:06:00	34 28.08 S	014 21.28 E	6	Sippican Deep Blue
7KAY_20230629080600_N16_XBT.bin	235	06/29/2023	09:06:00	34 30.85 S	014 38.61 E	8	Sippican Deep Blue
7KAY_20230629090600_N17_XBT.bin	236	06/29/2023	09:36:00	34 31.85 S	014 47.37 E	1	Sippican Deep Blue
7KAY_20230629093600_N18_XBT.bin							

237	06/29/2023	10:06:00	34 33.02 S	014 56.33 E	2	Sippican Deep Blue
7KAY_20230629100600_N19_XBT.bin						
238	06/29/2023	10:36:00	34 34.15 S	015 05.10 E	3	Sippican Deep Blue
7KAY_20230629103600_N20_XBT.bin						
239	06/29/2023	11:06:00	34 35.53 S	015 13.70 E	4	Sippican Deep Blue
7KAY_20230629110600_N21_XBT.bin						
240	06/29/2023	11:36:00	34 36.61 S	015 22.54 E	5	Sippican Deep Blue
7KAY_20230629113600_N22_XBT.bin						
241	06/29/2023	12:06:00	34 37.81 S	015 31.01 E	6	Sippican Deep Blue
7KAY_20230629120600_N23_XBT.bin						
242	06/29/2023	12:36:00	34 39.17 S	015 39.55 E	7	Sippican Deep Blue
7KAY_20230629123600_N24_XBT.bin						
243	06/29/2023	13:06:00	34 40.38 S	015 48.21 E	8	Sippican Deep Blue
7KAY_20230629130600_N25_XBT.bin						
244	06/29/2023	13:36:00	34 41.46 S	015 56.83 E	1	Sippican Deep Blue
7KAY_20230629133600_N26_XBT.bin						
245	06/29/2023	14:06:00	34 42.62 S	016 05.42 E	2	Sippican Deep Blue
7KAY_20230629140600_N27_XBT.bin						
246	06/29/2023	14:36:00	34 44.05 S	016 13.91 E	3	Sippican Deep Blue
7KAY_20230629143600_N28_XBT.bin						
247	06/29/2023	15:06:00	34 45.46 S	016 22.41 E	4	Sippican Deep Blue
7KAY_20230629150600_N29_XBT.bin						
248	06/29/2023	15:36:00	34 46.98 S	016 31.05 E	5	Sippican Deep Blue
7KAY_20230629153600_N30_XBT.bin						
249	06/29/2023	16:06:00	34 48.16 S	016 39.97 E	6	Sippican Deep Blue
7KAY_20230629160600_N31_XBT.bin						
250	06/29/2023	16:36:00	34 49.44 S	016 48.79 E	7	Sippican Deep Blue
7KAY_20230629163600_N32_XBT.bin						
251	06/29/2023	17:06:00	34 50.62 S	016 57.66 E	8	Sippican Deep Blue
7KAY_20230629170600_N33_XBT.bin						
252	06/29/2023	17:36:00	34 51.82 S	017 06.32 E	1	Sippican Deep Blue
7KAY_20230629173600_N34_XBT.bin						
253	06/29/2023	18:06:00	34 52.90 S	017 14.89 E	2	Sippican Deep Blue
7KAY_20230629180600_N35_XBT.bin						
254	06/29/2023	18:36:00	34 54.03 S	017 23.57 E	3	Sippican Deep Blue
7KAY_20230629183600_N36_XBT.bin						
255	06/29/2023	19:06:00	34 55.11 S	017 32.20 E	4	Sippican Deep Blue
7KAY_20230629190600_N37_XBT.bin						
257	06/29/2023	19:39:00	34 56.42 S	017 41.69 E	6	Sippican Deep Blue
7KAY_20230629193900_N38_XBT.bin						
258	06/29/2023	20:06:00	34 57.48 S	017 49.32 E	7	Sippican Deep Blue
7KAY_20230629200600_N39_XBT.bin						
259	06/29/2023	20:36:00	34 58.60 S	017 57.78 E	8	Sippican Deep Blue
7KAY_20230629203600_N40_XBT.bin						
260	06/29/2023	21:07:00	34 59.98 S	018 06.68 E	1	Sippican Deep Blue
7KAY_20230629210700_N41_XBT.bin						