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## MTP and STP start and stop time period

| <i>MTP</i>    | <i>STP</i>    | <i>VSTP</i>    | <i>Execution Start</i> | <i>Execution End</i> |
|---------------|---------------|----------------|------------------------|----------------------|
| <i>MTP031</i> | <b>STP115</b> | <b>VSTP224</b> | 2016/06/28T23:25:00    | 2016/07/01T23:25:00  |
|               |               | <b>VSTP225</b> | 2016/07/01T23:25:00    | 2016/07/05T23:25:00  |
|               | <b>STP116</b> | <b>VSTP226</b> | 2016/07/05T23:25:00    | 2016/07/08T23:25:00  |
|               |               | <b>VSTP227</b> | 2016/07/08T23:25:00    | 2016/07/12T23:25:00  |
|               | <b>STP117</b> | <b>VSTP228</b> | 2016/07/12T23:25:00    | 2016/07/15T23:25:00  |
|               |               | <b>VSTP229</b> | 2016/07/15T23:25:00    | 2016/07/19T23:25:00  |
|               | <b>STP118</b> | <b>VSTP230</b> | 2016/07/19T23:25:00    | 2016/07/22T23:25:00  |
|               |               | <b>VSTP231</b> | 2016/07/22T23:25:00    | 2016/07/26T23:25:00  |
| <i>MTP032</i> | <b>STP119</b> | <b>VSTP232</b> | 2016/07/26T23:25:00    | 2016/07/29T23:25:00  |
|               |               | <b>VSTP233</b> | 2016/07/29T23:25:00    | 2016/08/02T23:25:00  |
|               | <b>STP120</b> | <b>VSTP234</b> | 2016/08/02T23:25:00    | 2016/08/05T23:25:00  |
|               |               | <b>VSTP235</b> | 2016/08/05T23:25:00    | 2016/08/09T23:25:00  |
| <i>MTP033</i> | <b>STP121</b> | <b>VSTP236</b> | 2016/08/09T23:25:00    | 2016/08/12T06:40:00  |
|               |               | <b>VSTP237</b> | 2016/08/12T06:40:00    | 2016/08/15T06:40:00  |
|               | <b>STP122</b> | <b>VSTP238</b> | 2016/08/15T06:40:00    | 2016/08/18T06:40:00  |
|               |               | <b>VSTP239</b> | 2016/08/18T06:40:00    | 2016/08/21T06:40:00  |
|               | <b>STP123</b> | <b>VSTP240</b> | 2016/08/21T06:40:00    | 2016/08/24T06:40:00  |
|               |               | <b>VSTP241</b> | 2016/08/24T06:40:00    | 2016/08/27T06:40:00  |
|               | <b>STP124</b> | <b>VSTP242</b> | 2016/08/27T06:40:00    | 2016/08/30T06:40:00  |
|               |               | <b>VSTP243</b> | 2016/08/30T06:40:00    | 2016/09/02T06:40:00  |

|               |               |                |                     |                     |
|---------------|---------------|----------------|---------------------|---------------------|
| <b>MTP034</b> | <b>STP125</b> | <b>VSTP244</b> | 2016/09/02T06:40:00 | 2016/09/05T06:40:00 |
|               |               | <b>VSTP245</b> | 2016/09/05T06:40:00 | 2016/09/08T06:40:00 |
|               | <b>STP126</b> | <b>VSTP246</b> | 2016/09/08T06:40:00 | 2016/09/11T06:40:00 |
|               |               | <b>VSTP247</b> | 2016/09/11T06:40:00 | 2016/09/14T06:40:00 |
|               | <b>STP127</b> | <b>VSTP248</b> | 2016/09/14T06:40:00 | 2016/09/17T06:40:00 |
|               |               | <b>VSTP249</b> | 2016/09/17T06:40:00 | 2016/09/20T06:40:00 |
|               | <b>STP128</b> | <b>VSTP250</b> | 2016/09/20T06:40:00 | 2016/09/23T06:40:00 |
|               |               | <b>VSTP251</b> | 2016/09/23T06:40:00 | 2016/09/26T06:40:00 |
| <b>MTP035</b> | <b>STP129</b> | <b>VSTP252</b> | 2016/09/26T06:40:00 | 2016/09/28T00:00:00 |
|               |               | <b>VSTP253</b> | 2016/09/28T00:00:00 | 2016/09/29T18:30:00 |
|               | <b>STP130</b> |                | 2016/09/29T18:30:00 | 2016/01/10T00:00:00 |

# STP115

| Start time  | Set Time | Instrument | Mode/Sequence   | Mode/Sequence number | Cycle number | Repetition | Duration [s] | Stop time    |
|---|----------|------------|-----------------|----------------------|--------------|------------|--------------|--------------|
| <b>MOCM 28/06/2016 23:25:00 - 29/06/2016 05:55:00</b> |          |            |                 |                      |              |            |              |              |
| 180_23:30:00  | 1        | RTOF       | Flight sequence | ARNF014A             | 0            | 0          | 120          | 180_23:32:00 |
| 180_23:35:00  | 1        | RTOF       | Flight sequence | ARNF004A             | 0            | 0          | 120          | 180_23:37:00 |
| 181_04:54:10  | 1        | RTOF       | Flight sequence | ARNS041A_RTOF        | 30           | 0          | 60           | 181_04:55:10 |
| 181_04:55:10  | 0        | RTOF       | Mode            | 51                   | 5            | 0          | 3660         | 181_05:56:10 |
| 181_05:55:00  | 1        | COPS       | Mode            | 396                  | 1            | 0          | 60           | 181_05:56:00 |
| 181_05:56:00  | 1        | DFMS       | Mode            | 502                  | 0            | 11         | 15700        | 181_10:17:40 |
| 181_05:57:00  | 1        | RTOF       | Mode            | 521                  | 15           | 2          | 11100        | 181_09:02:00 |
| 181_06:55:00  | 1        | COPS       | Flight sequence | ARNF016A             | 0            | 0          | 60           | 181_06:56:00 |
| 181_09:02:00  | 0        | RTOF       | Mode            | 521                  | 7            | 0          | 1730         | 181_09:30:50 |
| 181_09:33:51  | 1        | RTOF       | Mode            | 1                    | 0            | 0          | 240          | 181_09:37:51 |
| <b>MWNV 29/06/2016 09:37:51 - 29/06/2016 10:47:51</b> |          |            |                 |                      |              |            |              |              |
| 181_10:17:40  | 0        | DFMS       | Flight sequence | ARNS081B             | 0            | 0          | 10           | 181_10:17:50 |
| 181_10:17:50  | 0        | DFMS       | Mode            | 1                    | 0            | 0          | 120          | 181_10:19:50 |
| 181_10:19:50  | 0        | DFMS       | Mode            | 502                  | 0            | 20         | 27220        | 181_17:53:30 |
| 181_10:47:51  | 1        | RTOF       | Mode            | 521                  | 15           | 8          | 31560        | 181_19:33:51 |
| 181_17:53:30  | 0        | DFMS       | Mode            | 502                  | 0            | 6          | 8960         | 181_20:22:50 |
| 181_19:33:51  | 0        | RTOF       | Mode            | 521                  | 2            | 0          | 680          | 181_19:45:11 |
| 181_19:46:43  | 1        | RTOF       | Mode            | 1                    | 0            | 0          | 240          | 181_19:50:43 |
| <b>MWNV 29/06/2016 19:50:43 - 29/06/2016 21:00:43</b> |          |            |                 |                      |              |            |              |              |
| 181_20:22:50  | 0        | DFMS       | Flight sequence | ARNS081B             | 0            | 0          | 10           | 181_20:23:00 |
| 181_20:23:00  | 0        | DFMS       | Mode            | 1                    | 0            | 0          | 120          | 181_20:25:00 |
| 181_20:25:00  | 0        | DFMS       | Mode            | 502                  | 0            | 20         | 27220        | 182_03:58:40 |
| 181_21:00:43  | 1        | RTOF       | Mode            | 521                  | 15           | 8          | 31560        | 182_05:46:43 |
| 182_03:58:40  | 0        | DFMS       | Mode            | 502                  | 0            | 8          | 11520        | 182_07:10:40 |
| 182_05:46:43  | 0        | RTOF       | Mode            | 521                  | 2            | 0          | 680          | 182_05:58:03 |
| 182_05:59:34  | 1        | RTOF       | Mode            | 1                    | 0            | 0          | 240          | 182_06:03:34 |
| <b>MWNV 30/06/2016 06:03:34 - 30/06/2016 07:13:34</b> |          |            |                 |                      |              |            |              |              |
| 182_07:10:40  | 0        | DFMS       | Flight sequence | ARNS081B             | 0            | 0          | 10           | 182_07:10:50 |
| 182_07:10:50  | 0        | DFMS       | Mode            | 1                    | 0            | 0          | 120          | 182_07:12:50 |
| 182_07:12:50  | 0        | DFMS       | Mode            | 502                  | 0            | 20         | 27220        | 182_14:46:30 |
| 182_07:13:34  | 1        | RTOF       | Mode            | 521                  | 15           | 8          | 31560        | 182_15:59:34 |

|   |   |      |                 |          |    |    |       |              |
|---|---|------|-----------------|----------|----|----|-------|--------------|
| 182_14:46:30  | 0 | DFMS | Mode            | 502      | 0  | 6  | 8960  | 182_17:15:50 |
| 182_15:59:34  | 0 | RTOF | Mode            | 521      | 2  | 0  | 680   | 182_16:10:54 |
| 182_16:12:26  | 1 | RTOF | Mode            | 1        | 0  | 0  | 240   | 182_16:16:26 |
| <b>MWNV 30/06/2016 16:16:26 - 30/06/2016 17:26:26</b> |   |      |                 |          |    |    |       |              |
| 182_17:15:50  | 0 | DFMS | Flight sequence | ARNS081B | 0  | 0  | 10    | 182_17:16:00 |
| 182_17:16:00  | 0 | DFMS | Mode            | 1        | 0  | 0  | 120   | 182_17:18:00 |
| 182_17:18:00  | 0 | DFMS | Mode            | 502      | 0  | 20 | 27220 | 183_00:51:40 |
| 182_17:26:26  | 1 | RTOF | Mode            | 521      | 15 | 8  | 31560 | 183_02:12:26 |
| 183_00:51:40  | 0 | DFMS | Mode            | 502      | 0  | 6  | 8960  | 183_03:21:00 |
| 183_02:12:26  | 0 | RTOF | Mode            | 521      | 2  | 0  | 680   | 183_02:23:46 |
| 183_02:25:17  | 1 | RTOF | Mode            | 1        | 0  | 0  | 240   | 183_02:29:17 |
| <b>MWNV 01/07/2016 02:29:17 - 01/07/2016 03:39:17</b> |   |      |                 |          |    |    |       |              |
| 183_03:21:00  | 0 | DFMS | Flight sequence | ARNS081B | 0  | 0  | 10    | 183_03:21:10 |
| 183_03:21:10  | 0 | DFMS | Mode            | 1        | 0  | 0  | 120   | 183_03:23:10 |
| 183_03:23:10  | 0 | DFMS | Mode            | 502      | 0  | 20 | 27220 | 183_10:56:50 |
| 183_03:39:17  | 1 | RTOF | Mode            | 521      | 15 | 8  | 31560 | 183_12:25:17 |
| 183_10:56:50  | 0 | DFMS | Mode            | 502      | 0  | 7  | 10240 | 183_13:47:30 |
| 183_12:25:17  | 0 | RTOF | Mode            | 521      | 2  | 0  | 680   | 183_12:36:37 |
| 183_12:38:09  | 1 | RTOF | Mode            | 1        | 0  | 0  | 240   | 183_12:42:09 |
| <b>MWNV 01/07/2016 12:42:09 - 01/07/2016 13:52:09</b> |   |      |                 |          |    |    |       |              |
| 183_13:47:30  | 0 | DFMS | Flight sequence | ARNS081B | 0  | 0  | 10    | 183_13:47:40 |
| 183_13:47:40  | 0 | DFMS | Mode            | 1        | 0  | 0  | 120   | 183_13:49:40 |
| 183_13:49:40  | 0 | DFMS | Mode            | 502      | 0  | 20 | 27220 | 183_21:23:20 |
| 183_13:52:09  | 1 | RTOF | Mode            | 521      | 15 | 8  | 31560 | 183_22:38:09 |
| 183_21:23:20  | 0 | DFMS | Mode            | 502      | 0  | 10 | 14080 | 184_01:18:00 |
| 183_22:38:09  | 0 | RTOF | Mode            | 521      | 11 | 0  | 2570  | 183_23:20:59 |
| 183_23:21:00  | 1 | RTOF | Mode            | 1        | 0  | 0  | 240   | 183_23:25:00 |
| <b>MWOL 01/07/2016 23:25:00 - 02/07/2016 01:35:00</b> |   |      |                 |          |    |    |       |              |
| 184_01:18:00  | 0 | DFMS | Flight sequence | ARNS081B | 0  | 0  | 10    | 184_01:18:10 |
| 184_01:18:10  | 0 | DFMS | Mode            | 1        | 0  | 0  | 120   | 184_01:20:10 |
| 184_01:20:10  | 0 | DFMS | Mode            | 502      | 0  | 20 | 27220 | 184_08:53:50 |
| 184_01:35:00  | 1 | RTOF | Mode            | 521      | 15 | 7  | 28150 | 184_09:24:10 |
| 184_08:53:50  | 0 | DFMS | Mode            | 502      | 0  | 3  | 5120  | 184_10:19:10 |
| 184_09:24:10  | 0 | RTOF | Mode            | 1        | 0  | 0  | 240   | 184_09:28:10 |
| <b>MWNV 02/07/2016 09:28:09 - 02/07/2016 10:38:09</b> |   |      |                 |          |    |    |       |              |

|   |   |        |                 |               |    |    |       |              |
|---|---|--------|-----------------|---------------|----|----|-------|--------------|
| 184_10:19:10  | 0 | DFMS   | Flight sequence | ARNS081B      | 0  | 0  | 10    | 184_10:19:20 |
| 184_10:19:20  | 0 | DFMS   | Mode            | 1             | 0  | 0  | 120   | 184_10:21:20 |
| 184_10:21:20  | 0 | DFMS   | Mode            | 502           | 0  | 20 | 27220 | 184_17:55:00 |
| 184_10:38:09  | 1 | RTOF   | Mode            | 521           | 15 | 8  | 31560 | 184_19:24:09 |
| 184_17:55:00  | 0 | DFMS   | Mode            | 502           | 0  | 6  | 8960  | 184_20:24:20 |
| 184_19:27:19  | 1 | RTOF   | Mode            | 1             | 0  | 0  | 240   | 184_19:31:19 |
| <b>MWNV 02/07/2016 19:31:19 - 02/07/2016 20:41:19</b> |   |        |                 |               |    |    |       |              |
| 184_20:24:20  | 0 | DFMS   | Flight sequence | ARNS081B      | 0  | 0  | 10    | 184_20:24:30 |
| 184_20:24:30  | 0 | DFMS   | Mode            | 1             | 0  | 0  | 120   | 184_20:26:30 |
| 184_20:26:30  | 0 | DFMS   | Mode            | 502           | 0  | 6  | 9300  | 184_23:01:30 |
| 184_20:41:19  | 1 | RTOF   | Mode            | 521           | 15 | 1  | 7690  | 184_22:49:29 |
| 184_22:49:29  | 0 | RTOF   | Mode            | 521           | 3  | 0  | 890   | 184_23:04:19 |
| 184_23:04:19  | 0 | RTOF   | Mode            | 181           | 2  | 0  | 740   | 184_23:16:39 |
| 184_23:17:29  | 1 | ROSINA | Flight sequence | ZRNP2002      | 0  | 0  | 240   | 184_23:21:29 |
| 184_23:21:29  | 0 | COPS   | Flight sequence | ARNF016B      | 0  | 0  | 60    | 184_23:22:29 |
| 184_23:22:29  | 0 | COPS   | Mode            | 0             | 0  | 0  | 150   | 184_23:24:59 |
| <b>MOCM 02/07/2016 23:25:00 - 03/07/2016 05:55:00</b> |   |        |                 |               |    |    |       |              |
| 184_23:30:00  | 1 | RTOF   | Flight sequence | ARNF014A      | 0  | 0  | 120   | 184_23:32:00 |
| 184_23:35:00  | 1 | RTOF   | Flight sequence | ARNF004A      | 0  | 0  | 120   | 184_23:37:00 |
| 185_04:54:10  | 1 | RTOF   | Flight sequence | ARNS041A_RTOF | 30 | 0  | 60    | 185_04:55:10 |
| 185_04:55:10  | 0 | RTOF   | Mode            | 51            | 5  | 0  | 3710  | 185_05:57:00 |
| 185_05:55:00  | 1 | COPS   | Mode            | 396           | 1  | 0  | 60    | 185_05:56:00 |
| 185_05:56:00  | 1 | DFMS   | Mode            | 502           | 0  | 20 | 27220 | 185_13:29:40 |
| 185_05:57:00  | 0 | RTOF   | Mode            | 521           | 15 | 8  | 31560 | 185_14:43:00 |
| 185_06:55:00  | 1 | COPS   | Flight sequence | ARNF016A      | 0  | 0  | 60    | 185_06:56:00 |
| 185_13:29:40  | 0 | DFMS   | Mode            | 502           | 0  | 8  | 11520 | 185_16:41:40 |
| 185_14:43:00  | 0 | RTOF   | Mode            | 521           | 13 | 0  | 2990  | 185_15:32:50 |
| 185_15:33:38  | 1 | RTOF   | Mode            | 1             | 0  | 0  | 240   | 185_15:37:38 |
| <b>MWNV 03/07/2016 15:37:38 - 03/07/2016 16:47:38</b> |   |        |                 |               |    |    |       |              |
| 185_16:41:40  | 0 | DFMS   | Flight sequence | ARNS081B      | 0  | 0  | 10    | 185_16:41:50 |
| 185_16:41:50  | 0 | DFMS   | Mode            | 1             | 0  | 0  | 120   | 185_16:43:50 |
| 185_16:43:50  | 0 | DFMS   | Mode            | 502           | 0  | 20 | 27220 | 186_00:17:30 |
| 185_16:47:38  | 1 | RTOF   | Mode            | 521           | 15 | 8  | 31560 | 186_01:33:38 |
| 186_00:17:30  | 0 | DFMS   | Mode            | 502           | 0  | 6  | 8960  | 186_02:46:50 |
| 186_01:36:47  | 1 | RTOF   | Mode            | 1             | 0  | 0  | 240   | 186_01:40:47 |

| MWNV 04/07/2016 01:40:47 - 04/07/2016 02:50:47 |   |      |                 |               |    |    |       |              |
|--|---|------|-----------------|---------------|----|----|-------|--------------|
| 186_02:46:50                                   | 0 | DFMS | Flight sequence | ARNS081B      | 0  | 0  | 10    | 186_02:47:00 |
| 186_02:47:00                                   | 0 | DFMS | Mode            | 1             | 0  | 0  | 120   | 186_02:49:00 |
| 186_02:49:00                                   | 0 | DFMS | Mode            | 502           | 0  | 20 | 27220 | 186_10:22:40 |
| 186_02:50:47                                   | 1 | RTOF | Mode            | 521           | 15 | 8  | 31560 | 186_11:36:47 |
| 186_10:22:40                                   | 0 | DFMS | Mode            | 502           | 0  | 5  | 7680  | 186_12:30:40 |
| 186_11:39:57                                   | 1 | RTOF | Mode            | 1             | 0  | 0  | 240   | 186_11:43:57 |
| MWNV 04/07/2016 11:43:57 - 04/07/2016 12:53:57 |   |      |                 |               |    |    |       |              |
| 186_12:30:40                                   | 0 | DFMS | Flight sequence | ARNS081B      | 0  | 0  | 10    | 186_12:30:50 |
| 186_12:30:50                                   | 0 | DFMS | Mode            | 1             | 0  | 0  | 120   | 186_12:32:50 |
| 186_12:32:50                                   | 0 | DFMS | Mode            | 502           | 0  | 20 | 27220 | 186_20:06:30 |
| 186_12:52:57                                   | 1 | RTOF | Flight sequence | ARNS041A_RTOF | 29 | 0  | 60    | 186_12:53:57 |
| 186_12:53:57                                   | 0 | RTOF | Mode            | 521           | 15 | 8  | 31560 | 186_21:39:57 |
| 186_20:06:30                                   | 0 | DFMS | Mode            | 502           | 0  | 6  | 8960  | 186_22:35:50 |
| 186_21:43:06                                   | 1 | RTOF | Mode            | 1             | 0  | 0  | 240   | 186_21:47:06 |
| MWNV 04/07/2016 21:47:06 - 04/07/2016 22:57:06 |   |      |                 |               |    |    |       |              |
| 186_22:35:50                                   | 0 | DFMS | Flight sequence | ARNS081B      | 0  | 0  | 10    | 186_22:36:00 |
| 186_22:36:00                                   | 0 | DFMS | Mode            | 1             | 0  | 0  | 120   | 186_22:38:00 |
| 186_22:38:00                                   | 0 | DFMS | Mode            | 502           | 0  | 20 | 27220 | 187_06:11:40 |
| 186_22:57:06                                   | 1 | RTOF | Mode            | 521           | 15 | 8  | 31560 | 187_07:43:06 |
| 187_06:11:40                                   | 0 | DFMS | Mode            | 502           | 0  | 6  | 8960  | 187_08:41:00 |
| 187_07:46:16                                   | 1 | RTOF | Mode            | 1             | 0  | 0  | 240   | 187_07:50:16 |
| MWNV 05/07/2016 07:50:16 - 05/07/2016 09:00:16 |   |      |                 |               |    |    |       |              |
| 187_08:41:00                                   | 0 | DFMS | Flight sequence | ARNS081B      | 0  | 0  | 10    | 187_08:41:10 |
| 187_08:41:10                                   | 0 | DFMS | Mode            | 1             | 0  | 0  | 120   | 187_08:43:10 |
| 187_08:43:10                                   | 0 | DFMS | Mode            | 502           | 0  | 20 | 27220 | 187_16:16:50 |
| 187_09:00:16                                   | 1 | RTOF | Mode            | 521           | 15 | 8  | 31560 | 187_17:46:16 |
| 187_16:16:50                                   | 0 | DFMS | Mode            | 502           | 0  | 6  | 8960  | 187_18:46:10 |
| 187_17:49:25                                   | 1 | RTOF | Mode            | 1             | 0  | 0  | 240   | 187_17:53:25 |
| MWNV 05/07/2016 17:53:25 - 05/07/2016 19:03:25 |   |      |                 |               |    |    |       |              |
| 187_18:46:10                                   | 0 | DFMS | Flight sequence | ARNS081B      | 0  | 0  | 10    | 187_18:46:20 |
| 187_18:46:20                                   | 0 | DFMS | Mode            | 1             | 0  | 0  | 120   | 187_18:48:20 |
| 187_18:48:20                                   | 0 | DFMS | Mode            | 502           | 0  | 11 | 15700 | 187_23:10:00 |
| 187_19:03:25                                   | 1 | RTOF | Mode            | 521           | 15 | 2  | 11100 | 187_22:08:25 |
| 187_22:08:25                                   | 0 | RTOF | Mode            | 521           | 14 | 0  | 3200  | 187_23:01:45 |

|              |   |        |                 |               |   |   |     |              |
|--------------|---|--------|-----------------|---------------|---|---|-----|--------------|
| 187_23:02:45 | 1 | RTOF   | Flight sequence | ARNS041A_RTOF | 1 | 0 | 60  | 187_23:03:45 |
| 187_23:03:45 | 0 | RTOF   | Mode            | 181           | 2 | 0 | 740 | 187_23:16:05 |
| 187_23:17:29 | 1 | ROSINA | Flight sequence | ZRNP2002      | 0 | 0 | 240 | 187_23:21:29 |
| 187_23:21:29 | 0 | COPS   | Flight sequence | ARNF016B      | 0 | 0 | 60  | 187_23:22:29 |
| 187_23:22:29 | 0 | COPS   | Mode            | 0             | 0 | 0 | 150 | 187_23:24:59 |

**MOCM 05/07/2016 23:25:00 - 06/07/2016 05:55:00**

## STP116

| Start time  | Set Time | Instrument | Mode/Sequence   | Mode/Sequence number | Cycle number | Repetition | Duration [s] | Stop time    |
|---|----------|------------|-----------------|----------------------|--------------|------------|--------------|--------------|
| <b>MOCM 05/07/2016 23:25:00 - 06/07/2016 05:55:00</b> |          |            |                 |                      |              |            |              |              |
| 187_23:30:00  | 1        | RTOF       | Flight sequence | ARNF014A             | 0            | 0          | 120          | 187_23:32:00 |
| 187_23:35:00  | 1        | RTOF       | Flight sequence | ARNF004A             | 0            | 0          | 120          | 187_23:37:00 |
| 188_04:54:10  | 1        | RTOF       | Flight sequence | ARNS041A_RTOF        | 30           | 0          | 60           | 188_04:55:10 |
| 188_04:55:10  | 0        | RTOF       | Mode            | 51                   | 5            | 0          | 3660         | 188_05:56:10 |
| 188_05:55:00  | 1        | COPS       | Mode            | 396                  | 1            | 0          | 60           | 188_05:56:00 |
| 188_05:56:00  | 1        | DFMS       | Mode            | 502                  | 0            | 11         | 15700        | 188_10:17:40 |
| 188_05:57:00  | 1        | RTOF       | Mode            | 521                  | 15           | 2          | 11100        | 188_09:02:00 |
| 188_06:55:00  | 1        | COPS       | Flight sequence | ARNF016A             | 0            | 0          | 60           | 188_06:56:00 |
| 188_09:02:00  | 0        | RTOF       | Mode            | 521                  | 7            | 0          | 1730         | 188_09:30:50 |
| 188_09:33:51  | 1        | RTOF       | Mode            | 1                    | 0            | 0          | 240          | 188_09:37:51 |
| <b>MWNV 06/07/2016 09:37:51 - 06/07/2016 10:47:51</b> |          |            |                 |                      |              |            |              |              |
| 188_10:17:40  | 0        | DFMS       | Flight sequence | ARNS081B             | 0            | 0          | 10           | 188_10:17:50 |
| 188_10:17:50  | 0        | DFMS       | Mode            | 1                    | 0            | 0          | 120          | 188_10:19:50 |
| 188_10:19:50  | 0        | DFMS       | Mode            | 502                  | 0            | 20         | 27220        | 188_17:53:30 |
| 188_10:47:51  | 1        | RTOF       | Mode            | 521                  | 15           | 8          | 31560        | 188_19:33:51 |
| 188_17:53:30  | 0        | DFMS       | Mode            | 502                  | 0            | 6          | 8960         | 188_20:22:50 |
| 188_19:33:51  | 0        | RTOF       | Mode            | 521                  | 2            | 0          | 680          | 188_19:45:11 |
| 188_19:46:43  | 1        | RTOF       | Mode            | 1                    | 0            | 0          | 240          | 188_19:50:43 |
| <b>MWNV 06/07/2016 19:50:43 - 06/07/2016 21:00:43</b> |          |            |                 |                      |              |            |              |              |
| 188_20:22:50  | 0        | DFMS       | Flight sequence | ARNS081B             | 0            | 0          | 10           | 188_20:23:00 |
| 188_20:23:00  | 0        | DFMS       | Mode            | 1                    | 0            | 0          | 120          | 188_20:25:00 |
| 188_20:25:00  | 0        | DFMS       | Mode            | 502                  | 0            | 20         | 27220        | 189_03:58:40 |
| 188_21:00:43  | 1        | RTOF       | Mode            | 521                  | 15           | 8          | 31560        | 189_05:46:43 |



|   |   |      |                 |          |    |    |       |              |
|---|---|------|-----------------|----------|----|----|-------|--------------|
| 189_03:58:40  | 0 | DFMS | Mode            | 502      | 0  | 8  | 11520 | 189_07:10:40 |
| 189_05:46:43  | 0 | RTOF | Mode            | 521      | 2  | 0  | 680   | 189_05:58:03 |
| 189_05:59:34  | 1 | RTOF | Mode            | 1        | 0  | 0  | 240   | 189_06:03:34 |
| <b>MWNV 07/07/2016 06:03:34 - 07/07/2016 07:13:34</b> |   |      |                 |          |    |    |       |              |
| 189_07:10:40  | 0 | DFMS | Flight sequence | ARNS081B | 0  | 0  | 10    | 189_07:10:50 |
| 189_07:10:50  | 0 | DFMS | Mode            | 1        | 0  | 0  | 120   | 189_07:12:50 |
| 189_07:12:50  | 0 | DFMS | Mode            | 502      | 0  | 20 | 27220 | 189_14:46:30 |
| 189_07:13:34  | 1 | RTOF | Mode            | 521      | 15 | 8  | 31560 | 189_15:59:34 |
| 189_14:46:30  | 0 | DFMS | Mode            | 502      | 0  | 6  | 8960  | 189_17:15:50 |
| 189_15:59:34  | 0 | RTOF | Mode            | 521      | 2  | 0  | 680   | 189_16:10:54 |
| 189_16:12:26  | 1 | RTOF | Mode            | 1        | 0  | 0  | 240   | 189_16:16:26 |
| <b>MWNV 07/07/2016 16:16:26 - 07/07/2016 17:26:26</b> |   |      |                 |          |    |    |       |              |
| 189_17:15:50  | 0 | DFMS | Flight sequence | ARNS081B | 0  | 0  | 10    | 189_17:16:00 |
| 189_17:16:00  | 0 | DFMS | Mode            | 1        | 0  | 0  | 120   | 189_17:18:00 |
| 189_17:18:00  | 0 | DFMS | Mode            | 502      | 0  | 20 | 27220 | 190_00:51:40 |
| 189_17:26:26  | 1 | RTOF | Mode            | 521      | 15 | 8  | 31560 | 190_02:12:26 |
| 190_00:51:40  | 0 | DFMS | Mode            | 502      | 0  | 6  | 8960  | 190_03:21:00 |
| 190_02:12:26  | 0 | RTOF | Mode            | 521      | 2  | 0  | 680   | 190_02:23:46 |
| 190_02:25:17  | 1 | RTOF | Mode            | 1        | 0  | 0  | 240   | 190_02:29:17 |
| <b>MWNV 08/07/2016 02:29:17 - 08/07/2016 03:39:17</b> |   |      |                 |          |    |    |       |              |
| 190_03:21:00  | 0 | DFMS | Flight sequence | ARNS081B | 0  | 0  | 10    | 190_03:21:10 |
| 190_03:21:10  | 0 | DFMS | Mode            | 1        | 0  | 0  | 120   | 190_03:23:10 |
| 190_03:23:10  | 0 | DFMS | Mode            | 502      | 0  | 20 | 27220 | 190_10:56:50 |
| 190_03:39:17  | 1 | RTOF | Mode            | 521      | 15 | 8  | 31560 | 190_12:25:17 |
| 190_10:56:50  | 0 | DFMS | Mode            | 502      | 0  | 7  | 10240 | 190_13:47:30 |
| 190_12:25:17  | 0 | RTOF | Mode            | 521      | 2  | 0  | 680   | 190_12:36:37 |
| 190_12:38:09  | 1 | RTOF | Mode            | 1        | 0  | 0  | 240   | 190_12:42:09 |
| <b>MWNV 08/07/2016 12:42:09 - 08/07/2016 13:52:09</b> |   |      |                 |          |    |    |       |              |
| 190_13:47:30  | 0 | DFMS | Flight sequence | ARNS081B | 0  | 0  | 10    | 190_13:47:40 |
| 190_13:47:40  | 0 | DFMS | Mode            | 1        | 0  | 0  | 120   | 190_13:49:40 |
| 190_13:49:40  | 0 | DFMS | Mode            | 502      | 0  | 20 | 27220 | 190_21:23:20 |
| 190_13:52:09  | 1 | RTOF | Mode            | 521      | 15 | 8  | 31560 | 190_22:38:09 |
| 190_21:23:20  | 0 | DFMS | Mode            | 502      | 0  | 10 | 14080 | 191_01:18:00 |
| 190_22:38:09  | 0 | RTOF | Mode            | 521      | 11 | 0  | 2570  | 190_23:20:59 |
| 190_23:21:00  | 1 | RTOF | Mode            | 1        | 0  | 0  | 240   | 190_23:25:00 |

| MWOL 08/07/2016 23:25:00 - 09/07/2016 01:35:00 |   |        |                 |               |    |    |       |              |
|--|---|--------|-----------------|---------------|----|----|-------|--------------|
| 191_01:18:00                                   | 0 | DFMS   | Flight sequence | ARNS081B      | 0  | 0  | 10    | 191_01:18:10 |
| 191_01:18:10                                   | 0 | DFMS   | Mode            | 1             | 0  | 0  | 120   | 191_01:20:10 |
| 191_01:20:10                                   | 0 | DFMS   | Mode            | 502           | 0  | 20 | 27220 | 191_08:53:50 |
| 191_01:35:00                                   | 1 | RTOF   | Mode            | 521           | 15 | 7  | 28150 | 191_09:24:10 |
| 191_08:53:50                                   | 0 | DFMS   | Mode            | 502           | 0  | 3  | 5120  | 191_10:19:10 |
| 191_09:24:10                                   | 0 | RTOF   | Mode            | 1             | 0  | 0  | 240   | 191_09:28:10 |
| MWNV 09/07/2016 09:28:09 - 09/07/2016 10:38:09 |   |        |                 |               |    |    |       |              |
| 191_10:19:10                                   | 0 | DFMS   | Flight sequence | ARNS081B      | 0  | 0  | 10    | 191_10:19:20 |
| 191_10:19:20                                   | 0 | DFMS   | Mode            | 1             | 0  | 0  | 120   | 191_10:21:20 |
| 191_10:21:20                                   | 0 | DFMS   | Mode            | 502           | 0  | 20 | 27220 | 191_17:55:00 |
| 191_10:38:09                                   | 1 | RTOF   | Mode            | 521           | 15 | 8  | 31560 | 191_19:24:09 |
| 191_17:55:00                                   | 0 | DFMS   | Mode            | 502           | 0  | 6  | 8960  | 191_20:24:20 |
| 191_19:27:19                                   | 1 | RTOF   | Mode            | 1             | 0  | 0  | 240   | 191_19:31:19 |
| MWNV 09/07/2016 19:31:19 - 09/07/2016 20:41:19 |   |        |                 |               |    |    |       |              |
| 191_20:24:20                                   | 0 | DFMS   | Flight sequence | ARNS081B      | 0  | 0  | 10    | 191_20:24:30 |
| 191_20:24:30                                   | 0 | DFMS   | Mode            | 1             | 0  | 0  | 120   | 191_20:26:30 |
| 191_20:26:30                                   | 0 | DFMS   | Mode            | 502           | 0  | 6  | 9300  | 191_23:01:30 |
| 191_20:41:19                                   | 1 | RTOF   | Mode            | 521           | 15 | 1  | 7690  | 191_22:49:29 |
| 191_22:49:29                                   | 0 | RTOF   | Mode            | 521           | 3  | 0  | 890   | 191_23:04:19 |
| 191_23:04:19                                   | 0 | RTOF   | Mode            | 181           | 2  | 0  | 740   | 191_23:16:39 |
| 191_23:17:29                                   | 1 | ROSINA | Flight sequence | ZRNP2002      | 0  | 0  | 240   | 191_23:21:29 |
| 191_23:21:29                                   | 0 | COPS   | Flight sequence | ARNF016B      | 0  | 0  | 60    | 191_23:22:29 |
| 191_23:22:29                                   | 0 | COPS   | Mode            | 0             | 0  | 0  | 150   | 191_23:24:59 |
| MOCM 09/07/2016 23:25:00 - 10/07/2016 05:55:00 |   |        |                 |               |    |    |       |              |
| 191_23:30:00                                   | 1 | RTOF   | Flight sequence | ARNF014A      | 0  | 0  | 120   | 191_23:32:00 |
| 191_23:35:00                                   | 1 | RTOF   | Flight sequence | ARNF004A      | 0  | 0  | 120   | 191_23:37:00 |
| 192_04:54:10                                   | 1 | RTOF   | Flight sequence | ARNS041A_RTOF | 30 | 0  | 60    | 192_04:55:10 |
| 192_04:55:10                                   | 0 | RTOF   | Mode            | 51            | 5  | 0  | 3710  | 192_05:57:00 |
| 192_05:55:00                                   | 1 | COPS   | Mode            | 396           | 1  | 0  | 60    | 192_05:56:00 |
| 192_05:56:00                                   | 1 | DFMS   | Mode            | 502           | 0  | 20 | 27220 | 192_13:29:40 |
| 192_05:57:00                                   | 0 | RTOF   | Mode            | 521           | 15 | 8  | 31560 | 192_14:43:00 |
| 192_06:55:00                                   | 1 | COPS   | Flight sequence | ARNF016A      | 0  | 0  | 60    | 192_06:56:00 |
| 192_13:29:40                                   | 0 | DFMS   | Mode            | 502           | 0  | 8  | 11520 | 192_16:41:40 |
| 192_14:43:00                                   | 0 | RTOF   | Mode            | 521           | 13 | 0  | 2990  | 192_15:32:50 |

|   |   |      |                 |               |    |    |       |              |
|---|---|------|-----------------|---------------|----|----|-------|--------------|
| 192_15:33:38  | 1 | RTOF | Mode            | 1             | 0  | 0  | 240   | 192_15:37:38 |
| <b>MWNV 10/07/2016 15:37:38 - 10/07/2016 16:47:38</b> |   |      |                 |               |    |    |       |              |
| 192_16:41:40  | 0 | DFMS | Flight sequence | ARNS081B      | 0  | 0  | 10    | 192_16:41:50 |
| 192_16:41:50  | 0 | DFMS | Mode            | 1             | 0  | 0  | 120   | 192_16:43:50 |
| 192_16:43:50  | 0 | DFMS | Mode            | 502           | 0  | 20 | 27220 | 193_00:17:30 |
| 192_16:47:38  | 1 | RTOF | Mode            | 521           | 15 | 8  | 31560 | 193_01:33:38 |
| 193_00:17:30  | 0 | DFMS | Mode            | 502           | 0  | 6  | 8960  | 193_02:46:50 |
| 193_01:36:47  | 1 | RTOF | Mode            | 1             | 0  | 0  | 240   | 193_01:40:47 |
| <b>MWNV 11/07/2016 01:40:47 - 11/07/2016 02:50:47</b> |   |      |                 |               |    |    |       |              |
| 193_02:46:50  | 0 | DFMS | Flight sequence | ARNS081B      | 0  | 0  | 10    | 193_02:47:00 |
| 193_02:47:00  | 0 | DFMS | Mode            | 1             | 0  | 0  | 120   | 193_02:49:00 |
| 193_02:49:00  | 0 | DFMS | Mode            | 502           | 0  | 20 | 27220 | 193_10:22:40 |
| 193_02:50:47  | 1 | RTOF | Mode            | 521           | 15 | 8  | 31560 | 193_11:36:47 |
| 193_10:22:40  | 0 | DFMS | Mode            | 502           | 0  | 5  | 7680  | 193_12:30:40 |
| 193_11:39:57  | 1 | RTOF | Mode            | 1             | 0  | 0  | 240   | 193_11:43:57 |
| <b>MWNV 11/07/2016 11:43:57 - 11/07/2016 12:53:57</b> |   |      |                 |               |    |    |       |              |
| 193_12:30:40  | 0 | DFMS | Flight sequence | ARNS081B      | 0  | 0  | 10    | 193_12:30:50 |
| 193_12:30:50  | 0 | DFMS | Mode            | 1             | 0  | 0  | 120   | 193_12:32:50 |
| 193_12:32:50  | 0 | DFMS | Mode            | 502           | 0  | 20 | 27220 | 193_20:06:30 |
| 193_12:52:57  | 1 | RTOF | Flight sequence | ARNS041A_RTOf | 29 | 0  | 60    | 193_12:53:57 |
| 193_12:53:57  | 0 | RTOF | Mode            | 521           | 15 | 8  | 31560 | 193_21:39:57 |
| 193_20:06:30  | 0 | DFMS | Mode            | 502           | 0  | 6  | 8960  | 193_22:35:50 |
| 193_21:43:06  | 1 | RTOF | Mode            | 1             | 0  | 0  | 240   | 193_21:47:06 |
| <b>MWNV 11/07/2016 21:47:06 - 11/07/2016 22:57:06</b> |   |      |                 |               |    |    |       |              |
| 193_22:35:50  | 0 | DFMS | Flight sequence | ARNS081B      | 0  | 0  | 10    | 193_22:36:00 |
| 193_22:36:00  | 0 | DFMS | Mode            | 1             | 0  | 0  | 120   | 193_22:38:00 |
| 193_22:38:00  | 0 | DFMS | Mode            | 502           | 0  | 20 | 27220 | 194_06:11:40 |
| 193_22:57:06  | 1 | RTOF | Mode            | 521           | 15 | 8  | 31560 | 194_07:43:06 |
| 194_06:11:40  | 0 | DFMS | Mode            | 502           | 0  | 6  | 8960  | 194_08:41:00 |
| 194_07:46:16  | 1 | RTOF | Mode            | 1             | 0  | 0  | 240   | 194_07:50:16 |
| <b>MWNV 12/07/2016 07:50:16 - 12/07/2016 09:00:16</b> |   |      |                 |               |    |    |       |              |
| 194_08:41:00  | 0 | DFMS | Flight sequence | ARNS081B      | 0  | 0  | 10    | 194_08:41:10 |
| 194_08:41:10  | 0 | DFMS | Mode            | 1             | 0  | 0  | 120   | 194_08:43:10 |
| 194_08:43:10  | 0 | DFMS | Mode            | 502           | 0  | 20 | 27220 | 194_16:16:50 |
| 194_09:00:16  | 1 | RTOF | Mode            | 521           | 15 | 8  | 31560 | 194_17:46:16 |

|   |   |        |                 |               |    |    |       |              |
|---|---|--------|-----------------|---------------|----|----|-------|--------------|
| 194_16:16:50  | 0 | DFMS   | Mode            | 502           | 0  | 6  | 8960  | 194_18:46:10 |
| 194_17:49:25  | 1 | RTOF   | Mode            | 1             | 0  | 0  | 240   | 194_17:53:25 |
| <b>MWNV 12/07/2016 17:53:25 - 12/07/2016 19:03:25</b> |   |        |                 |               |    |    |       |              |
| 194_18:46:10  | 0 | DFMS   | Flight sequence | ARNS081B      | 0  | 0  | 10    | 194_18:46:20 |
| 194_18:46:20  | 0 | DFMS   | Mode            | 1             | 0  | 0  | 120   | 194_18:48:20 |
| 194_18:48:20  | 0 | DFMS   | Mode            | 502           | 0  | 11 | 15700 | 194_23:10:00 |
| 194_19:03:25  | 1 | RTOF   | Mode            | 521           | 15 | 2  | 11100 | 194_22:08:25 |
| 194_22:08:25  | 0 | RTOF   | Mode            | 521           | 14 | 0  | 3200  | 194_23:01:45 |
| 194_23:02:45  | 1 | RTOF   | Flight sequence | ARNS041A_RTOF | 1  | 0  | 60    | 194_23:03:45 |
| 194_23:03:45  | 0 | RTOF   | Mode            | 181           | 2  | 0  | 740   | 194_23:16:05 |
| 194_23:17:29  | 1 | ROSINA | Flight sequence | ZRNP2002      | 0  | 0  | 240   | 194_23:21:29 |
| 194_23:21:29  | 0 | COPS   | Flight sequence | ARNF016B      | 0  | 0  | 60    | 194_23:22:29 |
| 194_23:22:29  | 0 | COPS   | Mode            | 0             | 0  | 0  | 150   | 194_23:24:59 |
| <b>MOCM 12/07/2016 23:25:00 - 13/07/2016 05:55:00</b> |   |        |                 |               |    |    |       |              |

## STP117

| Start time  | Set Time | Instrument | Mode/Sequence   | Mode/Sequence number | Cycle number | Repetition | Duration [s] | Stop time    |
|---|----------|------------|-----------------|----------------------|--------------|------------|--------------|--------------|
| <b>MOCM 12/07/2016 23:25:00 - 13/07/2016 05:55:00</b> |          |            |                 |                      |              |            |              |              |
| 194_23:25:00  | 1        | RTOF       | Flight sequence | ARNF014A             | 0            | 0          | 120          | 194_23:27:00 |
| 195_05:55:00  | 1        | COPS       | Mode            | 396                  | 1            | 0          | 60           | 195_05:56:00 |
| 195_05:56:00  | 1        | DFMS       | Mode            | 502                  | 0            | 11         | 15700        | 195_10:17:40 |
| 195_06:55:00  | 1        | COPS       | Flight sequence | ARNF016A             | 0            | 0          | 60           | 195_06:56:00 |
| 195_10:17:40  | 0        | DFMS       | Flight sequence | ARNS081B             | 0            | 0          | 10           | 195_10:17:50 |
| 195_10:17:50  | 0        | DFMS       | Mode            | 1                    | 0            | 0          | 120          | 195_10:19:50 |
| <b>MWNV 13/07/2016 09:37:51 - 13/07/2016 10:47:51</b> |          |            |                 |                      |              |            |              |              |
| 195_10:19:50  | 0        | DFMS       | Mode            | 502                  | 0            | 20         | 27220        | 195_17:53:30 |
| 195_17:53:30  | 0        | DFMS       | Mode            | 502                  | 0            | 6          | 8960         | 195_20:22:50 |
| 195_20:22:50  | 0        | DFMS       | Flight sequence | ARNS081B             | 0            | 0          | 10           | 195_20:23:00 |
| 195_20:23:00  | 0        | DFMS       | Mode            | 1                    | 0            | 0          | 120          | 195_20:25:00 |
| <b>MWNV 13/07/2016 19:50:43 - 13/07/2016 21:00:43</b> |          |            |                 |                      |              |            |              |              |
| 195_20:25:00  | 0        | DFMS       | Mode            | 502                  | 0            | 20         | 27220        | 196_03:58:40 |
| 196_03:58:40  | 0        | DFMS       | Mode            | 502                  | 0            | 8          | 11520        | 196_07:10:40 |
| 196_07:10:40  | 0        | DFMS       | Flight sequence | ARNS081B             | 0            | 0          | 10           | 196_07:10:50 |

|   |   |        |                 |          |   |    |       |              |
|---|---|--------|-----------------|----------|---|----|-------|--------------|
| 196_07:10:50  | 0 | DFMS   | Mode            | 1        | 0 | 0  | 120   | 196_07:12:50 |
| <b>MWNV 14/07/2016 06:03:34 - 14/07/2016 07:13:34</b> |   |        |                 |          |   |    |       |              |
| 196_07:12:50  | 0 | DFMS   | Mode            | 222      | 0 | 13 | 36840 | 196_17:26:50 |
| 196_17:26:50  | 0 | DFMS   | Flight sequence | ARNS081B | 0 | 0  | 10    | 196_17:27:00 |
| 196_17:27:00  | 0 | DFMS   | Mode            | 1        | 0 | 0  | 120   | 196_17:29:00 |
| <b>MWNV 14/07/2016 16:16:26 - 14/07/2016 17:26:26</b> |   |        |                 |          |   |    |       |              |
| 196_17:29:00  | 0 | DFMS   | Mode            | 222      | 0 | 13 | 36840 | 197_03:43:00 |
| 197_03:43:00  | 0 | DFMS   | Flight sequence | ARNS081B | 0 | 0  | 10    | 197_03:43:10 |
| 197_03:43:10  | 0 | DFMS   | Mode            | 1        | 0 | 0  | 120   | 197_03:45:10 |
| <b>MWNV 15/07/2016 02:29:17 - 15/07/2016 03:39:17</b> |   |        |                 |          |   |    |       |              |
| 197_03:45:10  | 0 | DFMS   | Mode            | 222      | 0 | 13 | 36840 | 197_13:59:10 |
| 197_13:59:10  | 0 | DFMS   | Flight sequence | ARNS081B | 0 | 0  | 10    | 197_13:59:20 |
| 197_13:59:20  | 0 | DFMS   | Mode            | 1        | 0 | 0  | 120   | 197_14:01:20 |
| <b>MWNV 15/07/2016 12:42:09 - 15/07/2016 13:52:09</b> |   |        |                 |          |   |    |       |              |
| 197_14:01:20  | 0 | DFMS   | Mode            | 222      | 0 | 15 | 42000 | 198_01:41:20 |
| 198_01:41:20  | 0 | DFMS   | Flight sequence | ARNS081B | 0 | 0  | 10    | 198_01:41:30 |
| 198_01:41:30  | 0 | DFMS   | Mode            | 1        | 0 | 0  | 120   | 198_01:43:30 |
| <b>MWOL 15/07/2016 23:25:00 - 16/07/2016 01:35:00</b> |   |        |                 |          |   |    |       |              |
| 198_01:43:30  | 0 | DFMS   | Mode            | 222      | 0 | 11 | 31680 | 198_10:31:30 |
| 198_10:31:30  | 0 | DFMS   | Flight sequence | ARNS081B | 0 | 0  | 10    | 198_10:31:40 |
| 198_10:31:40  | 0 | DFMS   | Mode            | 1        | 0 | 0  | 120   | 198_10:33:40 |
| <b>MWNV 16/07/2016 09:28:09 - 16/07/2016 10:38:09</b> |   |        |                 |          |   |    |       |              |
| 198_10:33:40  | 0 | DFMS   | Mode            | 222      | 0 | 13 | 36840 | 198_20:47:40 |
| 198_20:47:40  | 0 | DFMS   | Flight sequence | ARNS081B | 0 | 0  | 10    | 198_20:47:50 |
| 198_20:47:50  | 0 | DFMS   | Mode            | 1        | 0 | 0  | 120   | 198_20:49:50 |
| <b>MWNV 16/07/2016 19:31:19 - 16/07/2016 20:41:19</b> |   |        |                 |          |   |    |       |              |
| 198_20:49:50  | 0 | DFMS   | Mode            | 222      | 0 | 2  | 8460  | 198_23:10:50 |
| 198_23:10:50  | 0 | ROSINA | Flight sequence | ZRNP2002 | 0 | 0  | 120   | 198_23:12:50 |
| 198_23:12:50  | 0 | COPS   | Flight sequence | ARNF016B | 0 | 0  | 60    | 198_23:13:50 |
| 198_23:20:00  | 1 | COPS   | Mode            | 0        | 0 | 0  | 150   | 198_23:22:30 |
| <b>MOCM 16/07/2016 23:25:00 - 17/07/2016 05:55:00</b> |   |        |                 |          |   |    |       |              |
| 199_05:55:00  | 1 | COPS   | Mode            | 396      | 1 | 0  | 60    | 199_05:56:00 |
| 199_05:56:00  | 1 | DFMS   | Mode            | 222      | 0 | 1  | 5880  | 199_07:34:00 |
| 199_06:55:00  | 1 | COPS   | Flight sequence | ARNF016A | 0 | 0  | 60    | 199_06:56:00 |
| 199_07:34:00  | 0 | DFMS   | Mode            | 564      | 0 | 0  | 1900  | 199_08:05:40 |

|   |   |      |                 |               |    |    |       |              |
|---|---|------|-----------------|---------------|----|----|-------|--------------|
| 199_08:05:40  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 199_08:50:40 |
| 199_08:50:40  | 0 | DFMS | Mode            | 222           | 0  | 1  | 5160  | 199_10:16:40 |
| 199_09:45:00  | 1 | RTOF | Flight sequence | ARNF004A      | 0  | 0  | 120   | 199_09:47:00 |
| 199_09:47:00  | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 40 | 0  | 60    | 199_09:48:00 |
| 199_09:48:00  | 0 | RTOF | Mode            | 51            | 5  | 0  | 3660  | 199_10:49:00 |
| 199_10:16:40  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 199_10:48:20 |
| 199_10:48:20  | 0 | DFMS | Mode            | 502           | 0  | 13 | 17920 | 199_15:47:00 |
| 199_10:49:00  | 0 | RTOF | Mode            | 521           | 0  | 0  | 1130  | 199_11:07:50 |
| 199_12:08:50  | 1 | RTOF | Mode            | 521           | 13 | 1  | 5980  | 199_13:48:30 |
| 199_13:48:30  | 0 | RTOF | Mode            | 521           | 11 | 0  | 2570  | 199_14:31:20 |
| 199_14:31:20  | 0 | RTOF | Mode            | 181           | 1  | 0  | 530   | 199_14:40:10 |
| 199_14:45:00  | 1 | RTOF | Flight sequence | ARNS081A      | 0  | 0  | 10    | 199_14:45:10 |
| 199_14:45:10  | 0 | RTOF | Mode            | 1             | 0  | 0  | 240   | 199_14:49:10 |
| 199_14:49:10  | 0 | RTOF | Flight sequence | ARNF014A      | 0  | 0  | 120   | 199_14:51:10 |
| 199_15:47:00  | 0 | DFMS | Mode            | 222           | 0  | 0  | 2580  | 199_16:30:00 |
| 199_16:30:00  | 0 | DFMS | Flight sequence | ARNS081B      | 0  | 0  | 10    | 199_16:30:10 |
| 199_16:30:10  | 0 | DFMS | Mode            | 1             | 0  | 0  | 120   | 199_16:32:10 |
| <b>MWNV 17/07/2016 15:37:38 - 17/07/2016 16:47:38</b> |   |      |                 |               |    |    |       |              |
| 199_16:32:10  | 0 | DFMS | Mode            | 222           | 0  | 12 | 34260 | 200_02:03:10 |
| 200_02:03:10  | 0 | DFMS | Flight sequence | ARNS081B      | 0  | 0  | 10    | 200_02:03:20 |
| 200_02:03:20  | 0 | DFMS | Mode            | 1             | 0  | 0  | 120   | 200_02:05:20 |
| <b>MWNV 18/07/2016 01:40:47 - 18/07/2016 02:50:47</b> |   |      |                 |               |    |    |       |              |
| 200_02:05:20  | 0 | DFMS | Mode            | 222           | 0  | 1  | 5880  | 200_03:43:20 |
| 200_03:43:20  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 200_04:15:00 |
| 200_04:15:00  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 200_05:00:00 |
| 200_05:00:00  | 0 | DFMS | Mode            | 222           | 0  | 1  | 5160  | 200_06:26:00 |
| 200_06:26:00  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 200_06:57:40 |
| 200_06:57:40  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 200_07:42:40 |
| 200_07:42:40  | 0 | DFMS | Mode            | 222           | 0  | 1  | 5160  | 200_09:08:40 |
| 200_09:08:40  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 200_09:40:20 |
| 200_09:40:20  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 200_10:25:20 |
| 200_10:25:20  | 0 | DFMS | Mode            | 222           | 0  | 1  | 5160  | 200_11:51:20 |
| 200_11:51:20  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 200_12:23:00 |
| 200_12:23:00  | 0 | DFMS | Flight sequence | ARNS081B      | 0  | 0  | 10    | 200_12:23:10 |
| 200_12:23:10  | 0 | DFMS | Mode            | 1             | 0  | 0  | 120   | 200_12:25:10 |

ToO4:  
11:16=>15:27

| MWNV 18/07/2016 11:43:57 - 18/07/2016 12:53:57 |   |        |                 |          |   |    |       |              |
|--|---|--------|-----------------|----------|---|----|-------|--------------|
| 200_12:25:10                                   | 0 | DFMS   | Mode            | 222      | 0 | 13 | 36840 | 200_22:39:10 |
| 200_22:39:10                                   | 0 | DFMS   | Flight sequence | ARNS081B | 0 | 0  | 10    | 200_22:39:20 |
| 200_22:39:20                                   | 0 | DFMS   | Mode            | 1        | 0 | 0  | 120   | 200_22:41:20 |
| MWNV 18/07/2016 21:47:06 - 18/07/2016 22:57:06 |   |        |                 |          |   |    |       |              |
| 200_22:41:20                                   | 0 | DFMS   | Mode            | 222      | 0 | 1  | 5880  | 201_00:19:20 |
| 201_00:19:20                                   | 0 | DFMS   | Mode            | 564      | 0 | 0  | 1900  | 201_00:51:00 |
| 201_00:51:00                                   | 0 | DFMS   | Mode            | 566      | 0 | 0  | 2700  | 201_01:36:00 |
| 201_01:36:00                                   | 0 | DFMS   | Mode            | 222      | 0 | 1  | 5160  | 201_03:02:00 |
| 201_03:02:00                                   | 0 | DFMS   | Mode            | 564      | 0 | 0  | 1900  | 201_03:33:40 |
| 201_03:33:40                                   | 0 | DFMS   | Mode            | 566      | 0 | 0  | 2700  | 201_04:18:40 |
| 201_04:18:40                                   | 0 | DFMS   | Mode            | 222      | 0 | 1  | 5160  | 201_05:44:40 |
| 201_05:44:40                                   | 0 | DFMS   | Mode            | 564      | 0 | 0  | 1900  | 201_06:16:20 |
| 201_06:16:20                                   | 0 | DFMS   | Mode            | 566      | 0 | 0  | 2700  | 201_07:01:20 |
| 201_07:01:20                                   | 0 | DFMS   | Mode            | 222      | 0 | 1  | 5160  | 201_08:27:20 |
| 201_08:27:20                                   | 0 | DFMS   | Flight sequence | ARNS081B | 0 | 0  | 10    | 201_08:27:30 |
| 201_08:27:30                                   | 0 | DFMS   | Mode            | 1        | 0 | 0  | 120   | 201_08:29:30 |
| MWNV 19/07/2016 07:50:16 - 19/07/2016 09:00:16 |   |        |                 |          |   |    |       |              |
| 201_08:29:30                                   | 0 | DFMS   | Mode            | 222      | 0 | 13 | 36840 | 201_18:43:30 |
| 201_18:43:30                                   | 0 | DFMS   | Flight sequence | ARNS081B | 0 | 0  | 10    | 201_18:43:40 |
| 201_18:43:40                                   | 0 | DFMS   | Mode            | 1        | 0 | 0  | 120   | 201_18:45:40 |
| MWNV 19/07/2016 17:53:25 - 19/07/2016 19:03:25 |   |        |                 |          |   |    |       |              |
| 201_18:45:40                                   | 0 | DFMS   | Mode            | 222      | 0 | 1  | 5880  | 201_20:23:40 |
| 201_20:23:40                                   | 0 | DFMS   | Mode            | 564      | 0 | 0  | 1900  | 201_20:55:20 |
| 201_20:55:20                                   | 0 | DFMS   | Mode            | 566      | 0 | 0  | 2700  | 201_21:40:20 |
| 201_21:40:20                                   | 0 | DFMS   | Mode            | 222      | 0 | 0  | 2580  | 201_22:23:20 |
| 201_22:23:20                                   | 0 | DFMS   | Mode            | 502      | 0 | 0  | 1280  | 201_22:44:40 |
| 201_22:44:40                                   | 0 | ROSINA | Flight sequence | ZRNP2002 | 0 | 0  | 120   | 201_22:46:40 |
| 201_22:46:40                                   | 0 | COPS   | Flight sequence | ARNF016B | 0 | 0  | 60    | 201_22:47:40 |
| 201_23:20:00                                   | 1 | COPS   | Mode            | 0        | 0 | 0  | 150   | 201_23:22:30 |
| MOCM 19/07/2016 23:25:00 - 20/07/2016 05:55:00 |   |        |                 |          |   |    |       |              |

# STP118

| Start time  | Set Time | Instrument | Mode/Sequence | Mode/Sequence number | Cycle number | Repetition | Duration [s] | Stop time    |
|---|----------|------------|---------------|----------------------|--------------|------------|--------------|--------------|
| <b>MOCM 19/07/2016 23:25:00 - 20/07/2016 05:55:00</b> |          |            |               |                      |              |            |              |              |
| 202_05:55:00  | 1        | COPS       | Mode          | 396                  | 1            | 0          | 60           | 202_05:56:00 |
| 202_05:56:00  | 1        | DFMS       | Mode          | 502                  | 0            | 0          | 1620         | 202_06:23:00 |
| 202_06:23:00  | 0        | DFMS       | Mode          | 562                  | 0            | 0          | 1900         | 202_06:54:40 |
| 202_06:54:40  | 0        | DFMS       | Mode          | 502                  | 0            | 0          | 1280         | 202_07:16:00 |
| 202_07:16:00  | 0        | DFMS       | Mode          | 562                  | 0            | 0          | 1900         | 202_07:47:40 |
| 202_07:47:40  | 0        | DFMS       | Mode          | 564                  | 0            | 0          | 1900         | 202_08:19:20 |
| 202_08:19:20  | 0        | DFMS       | Mode          | 566                  | 0            | 0          | 2700         | 202_09:04:20 |
| 202_09:04:20  | 0        | DFMS       | Mode          | 502                  | 0            | 0          | 1280         | 202_09:25:40 |
| 202_09:25:40  | 0        | DFMS       | Mode          | 562                  | 0            | 0          | 1900         | 202_09:57:20 |
| <b>MWNV 20/07/2016 09:37:51 - 20/07/2016 10:47:51</b> |          |            |               |                      |              |            |              |              |
| 202_09:57:20  | 0        | DFMS       | Mode          | 502                  | 0            | 0          | 1280         | 202_10:18:40 |
| 202_10:18:40  | 0        | DFMS       | Mode          | 562                  | 0            | 0          | 1900         | 202_10:50:20 |
| 202_10:50:20  | 0        | DFMS       | Mode          | 564                  | 0            | 0          | 1900         | 202_11:22:00 |
| 202_11:22:00  | 0        | DFMS       | Mode          | 566                  | 0            | 0          | 2700         | 202_12:07:00 |
| 202_12:07:00  | 0        | DFMS       | Mode          | 502                  | 0            | 0          | 1280         | 202_12:28:20 |
| 202_12:28:20  | 0        | DFMS       | Mode          | 562                  | 0            | 0          | 1900         | 202_13:00:00 |
| 202_13:00:00  | 0        | DFMS       | Mode          | 502                  | 0            | 0          | 1280         | 202_13:21:20 |
| 202_13:21:20  | 0        | DFMS       | Mode          | 562                  | 0            | 0          | 1900         | 202_13:53:00 |
| 202_13:53:00  | 0        | DFMS       | Mode          | 564                  | 0            | 0          | 1900         | 202_14:24:40 |
| 202_14:24:40  | 0        | DFMS       | Mode          | 566                  | 0            | 0          | 2700         | 202_15:09:40 |
| 202_15:09:40  | 0        | DFMS       | Mode          | 502                  | 0            | 0          | 1280         | 202_15:31:00 |
| 202_15:31:00  | 0        | DFMS       | Mode          | 562                  | 0            | 0          | 1900         | 202_16:02:40 |
| 202_16:02:40  | 0        | DFMS       | Mode          | 502                  | 0            | 0          | 1280         | 202_16:24:00 |
| 202_16:24:00  | 0        | DFMS       | Mode          | 562                  | 0            | 0          | 1900         | 202_16:55:40 |
| 202_16:55:40  | 0        | DFMS       | Mode          | 564                  | 0            | 0          | 1900         | 202_17:27:20 |
| 202_17:27:20  | 0        | DFMS       | Mode          | 566                  | 0            | 0          | 2700         | 202_18:12:20 |
| 202_18:12:20  | 0        | DFMS       | Mode          | 502                  | 0            | 0          | 1280         | 202_18:33:40 |
| 202_18:33:40  | 0        | DFMS       | Mode          | 562                  | 0            | 0          | 1900         | 202_19:05:20 |
| 202_19:05:20  | 0        | DFMS       | Mode          | 502                  | 0            | 0          | 1280         | 202_19:26:40 |
| 202_19:26:40  | 0        | DFMS       | Mode          | 562                  | 0            | 0          | 1900         | 202_19:58:20 |
| <b>MWNV 20/07/2016 19:50:43 - 20/07/2016 21:00:43</b> |          |            |               |                      |              |            |              |              |



|   |   |      |                 |               |    |   |       |              |
|---|---|------|-----------------|---------------|----|---|-------|--------------|
| 202_19:56:43  | 1 | RTOF | Flight sequence | ARNF004A      | 0  | 0 | 120   | 202_19:58:43 |
| 202_19:58:43  | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 36 | 0 | 60    | 202_19:59:43 |
| 202_19:59:43  | 0 | RTOF | Mode            | 51            | 5  | 0 | 3660  | 202_21:00:43 |
| 202_20:01:05  | 1 | DFMS | Flight sequence | ARNS081B      | 0  | 0 | 10    | 202_20:01:15 |
| 202_20:01:15  | 0 | DFMS | Mode            | 1             | 0  | 0 | 120   | 202_20:03:15 |
| 202_20:03:15  | 0 | DFMS | Mode            | 564           | 0  | 0 | 2450  | 202_20:44:05 |
| 202_20:44:05  | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 202_21:29:05 |
| 202_21:00:43  | 0 | RTOF | Mode            | 521           | 15 | 8 | 31560 | 203_05:46:43 |
| 202_21:29:05  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 202_21:50:25 |
| 202_21:50:25  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 202_22:22:05 |
| 202_22:22:05  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 202_22:43:25 |
| 202_22:43:25  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 202_23:15:05 |
| 202_23:15:05  | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 202_23:46:45 |
| 202_23:46:45  | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 203_00:31:45 |
| 203_00:31:45  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 203_00:53:05 |
| 203_00:53:05  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 203_01:24:45 |
| 203_01:24:45  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 203_01:46:05 |
| 203_01:46:05  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 203_02:17:45 |
| 203_02:17:45  | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 203_02:49:25 |
| 203_02:49:25  | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 203_03:34:25 |
| 203_03:34:25  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 203_03:55:45 |
| 203_03:55:45  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 203_04:27:25 |
| 203_04:27:25  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 203_04:48:45 |
| 203_04:48:45  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 203_05:20:25 |
| 203_05:20:25  | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 203_05:52:05 |
| 203_05:46:43  | 0 | RTOF | Mode            | 521           | 3  | 0 | 890   | 203_06:01:33 |
| 203_05:52:05  | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 203_06:37:05 |
| <b>MWNV 21/07/2016 06:03:34 - 21/07/2016 07:13:34</b> |   |      |                 |               |    |   |       |              |
| 203_06:39:50  | 1 | DFMS | Flight sequence | ARNS081B      | 0  | 0 | 10    | 203_06:40:00 |
| 203_06:40:00  | 0 | DFMS | Mode            | 1             | 0  | 0 | 120   | 203_06:42:00 |
| 203_06:42:00  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1620  | 203_07:09:00 |
| 203_07:09:00  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 203_07:40:40 |
| 203_07:13:34  | 1 | RTOF | Mode            | 521           | 15 | 8 | 30690 | 203_15:45:04 |
| 203_07:40:40  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 203_08:02:00 |
| 203_08:02:00  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 203_08:33:40 |

|   |   |      |                 |          |    |   |       |              |
|---|---|------|-----------------|----------|----|---|-------|--------------|
| 203_08:33:40  | 0 | DFMS | Mode            | 564      | 0  | 0 | 1900  | 203_09:05:20 |
| 203_09:05:20  | 0 | DFMS | Mode            | 566      | 0  | 0 | 2700  | 203_09:50:20 |
| 203_09:50:20  | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280  | 203_10:11:40 |
| 203_10:11:40  | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900  | 203_10:43:20 |
| 203_10:43:20  | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280  | 203_11:04:40 |
| 203_11:04:40  | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900  | 203_11:36:20 |
| 203_11:36:20  | 0 | DFMS | Mode            | 564      | 0  | 0 | 1900  | 203_12:08:00 |
| 203_12:08:00  | 0 | DFMS | Mode            | 566      | 0  | 0 | 2700  | 203_12:53:00 |
| 203_12:53:00  | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280  | 203_13:14:20 |
| 203_13:14:20  | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900  | 203_13:46:00 |
| 203_13:46:00  | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280  | 203_14:07:20 |
| 203_14:07:20  | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900  | 203_14:39:00 |
| 203_14:39:00  | 0 | DFMS | Mode            | 564      | 0  | 0 | 1900  | 203_15:10:40 |
| 203_15:10:40  | 0 | DFMS | Mode            | 566      | 0  | 0 | 2700  | 203_15:55:40 |
| 203_15:45:04  | 0 | RTOF | Mode            | 521      | 7  | 0 | 1730  | 203_16:13:54 |
| 203_15:55:40  | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280  | 203_16:17:00 |
| <b>MWNV 21/07/2016 16:16:26 - 21/07/2016 17:26:26</b> |   |      |                 |          |    |   |       |              |
| 203_16:17:00  | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900  | 203_16:48:40 |
| 203_16:50:25  | 1 | DFMS | Flight sequence | ARNS081B | 0  | 0 | 10    | 203_16:50:35 |
| 203_16:50:35  | 0 | DFMS | Mode            | 1        | 0  | 0 | 120   | 203_16:52:35 |
| 203_16:52:35  | 0 | DFMS | Mode            | 502      | 0  | 0 | 1620  | 203_17:19:35 |
| 203_17:19:35  | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900  | 203_17:51:15 |
| 203_17:26:26  | 1 | RTOF | Mode            | 521      | 15 | 8 | 30690 | 204_01:57:56 |
| 203_17:51:15  | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280  | 203_18:12:35 |
| 203_18:12:35  | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900  | 203_18:44:15 |
| 203_18:44:15  | 0 | DFMS | Mode            | 564      | 0  | 0 | 1900  | 203_19:15:55 |
| 203_19:15:55  | 0 | DFMS | Mode            | 566      | 0  | 0 | 2700  | 203_20:00:55 |
| 203_20:00:55  | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280  | 203_20:22:15 |
| 203_20:22:15  | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900  | 203_20:53:55 |
| 203_20:53:55  | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280  | 203_21:15:15 |
| 203_21:15:15  | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900  | 203_21:46:55 |
| 203_21:46:55  | 0 | DFMS | Mode            | 564      | 0  | 0 | 1900  | 203_22:18:35 |
| 203_22:18:35  | 0 | DFMS | Mode            | 566      | 0  | 0 | 2700  | 203_23:03:35 |
| 203_23:03:35  | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280  | 203_23:24:55 |
| 203_23:24:55  | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900  | 203_23:56:35 |

|   |   |      |                 |          |    |   |       |              |
|---|---|------|-----------------|----------|----|---|-------|--------------|
| 203_23:56:35  | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280  | 204_00:17:55 |
| 204_00:17:55  | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900  | 204_00:49:35 |
| 204_00:49:35  | 0 | DFMS | Mode            | 564      | 0  | 0 | 1900  | 204_01:21:15 |
| 204_01:21:15  | 0 | DFMS | Mode            | 566      | 0  | 0 | 2700  | 204_02:06:15 |
| 204_01:57:56  | 0 | RTOF | Mode            | 521      | 7  | 0 | 1730  | 204_02:26:46 |
| 204_02:06:15  | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280  | 204_02:27:35 |
| 204_02:27:35  | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900  | 204_02:59:15 |
| <b>MWNV 22/07/2016 02:29:17 - 22/07/2016 03:39:17</b> |   |      |                 |          |    |   |       |              |
| 204_03:03:00  | 1 | DFMS | Flight sequence | ARNS081B | 0  | 0 | 10    | 204_03:03:10 |
| 204_03:03:10  | 0 | DFMS | Mode            | 1        | 0  | 0 | 120   | 204_03:05:10 |
| 204_03:05:10  | 0 | DFMS | Mode            | 502      | 0  | 0 | 1620  | 204_03:32:10 |
| 204_03:32:10  | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900  | 204_04:03:50 |
| 204_03:39:17  | 1 | RTOF | Mode            | 521      | 14 | 9 | 32000 | 204_12:32:37 |
| 204_04:03:50  | 0 | DFMS | Mode            | 564      | 0  | 0 | 1900  | 204_04:35:30 |
| 204_04:35:30  | 0 | DFMS | Mode            | 566      | 0  | 0 | 2700  | 204_05:20:30 |
| 204_05:20:30  | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280  | 204_05:41:50 |
| 204_05:41:50  | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900  | 204_06:13:30 |
| 204_06:13:30  | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280  | 204_06:34:50 |
| 204_06:34:50  | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900  | 204_07:06:30 |
| 204_07:06:30  | 0 | DFMS | Mode            | 564      | 0  | 0 | 1900  | 204_07:38:10 |
| 204_07:38:10  | 0 | DFMS | Mode            | 566      | 0  | 0 | 2700  | 204_08:23:10 |
| 204_08:23:10  | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280  | 204_08:44:30 |
| 204_08:44:30  | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900  | 204_09:16:10 |
| 204_09:16:10  | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280  | 204_09:37:30 |
| 204_09:37:30  | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900  | 204_10:09:10 |
| 204_10:09:10  | 0 | DFMS | Mode            | 564      | 0  | 0 | 1900  | 204_10:40:50 |
| 204_10:40:50  | 0 | DFMS | Mode            | 566      | 0  | 0 | 2700  | 204_11:25:50 |
| 204_11:25:50  | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280  | 204_11:47:10 |
| 204_11:47:10  | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900  | 204_12:18:50 |
| 204_12:18:50  | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280  | 204_12:40:10 |
| 204_12:37:59  | 1 | RTOF | Flight sequence | ARNS081A | 0  | 0 | 10    | 204_12:38:09 |
| 204_12:38:09  | 0 | RTOF | Mode            | 1        | 0  | 0 | 240   | 204_12:42:09 |
| 204_12:40:10  | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900  | 204_13:11:50 |
| <b>MWNV 22/07/2016 12:42:09 - 22/07/2016 13:52:09</b> |   |      |                 |          |    |   |       |              |
| 204_12:42:09  | 0 | RTOF | Flight sequence | ARNF014A | 0  | 0 | 120   | 204_12:44:09 |

|   |   |      |                 |          |   |   |      |              |
|---|---|------|-----------------|----------|---|---|------|--------------|
| 204_13:14:35  | 1 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 204_13:14:45 |
| 204_13:14:45  | 0 | DFMS | Mode            | 1        | 0 | 0 | 120  | 204_13:16:45 |
| 204_13:16:45  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1620 | 204_13:43:45 |
| 204_13:43:45  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 204_14:15:25 |
| 204_14:15:25  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 204_14:47:05 |
| 204_14:47:05  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 204_15:32:05 |
| 204_15:32:05  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 204_15:53:25 |
| 204_15:53:25  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 204_16:25:05 |
| 204_16:25:05  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 204_16:46:25 |
| 204_16:46:25  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 204_17:18:05 |
| 204_17:18:05  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 204_17:49:45 |
| 204_17:49:45  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 204_18:34:45 |
| 204_18:34:45  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 204_18:56:05 |
| 204_18:56:05  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 204_19:27:45 |
| 204_19:27:45  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 204_19:49:05 |
| 204_19:49:05  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 204_20:20:45 |
| 204_20:20:45  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 204_20:52:25 |
| 204_20:52:25  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2820 | 204_21:39:25 |
| 204_21:39:25  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1400 | 204_22:02:45 |
| 204_22:02:45  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 204_22:34:25 |
| 204_22:34:25  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 204_22:55:45 |
| 204_22:55:45  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 204_23:27:25 |
| <b>MWOL 22/07/2016 23:25:00 - 23/07/2016 01:35:00</b> |   |      |                 |          |   |   |      |              |
| 204_23:27:25  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 204_23:48:45 |
| 204_23:48:45  | 0 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 204_23:48:55 |
| 204_23:48:55  | 0 | DFMS | Mode            | 1        | 0 | 0 | 120  | 204_23:50:55 |
| 204_23:50:55  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1620 | 205_00:17:55 |
| 205_00:17:55  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 205_00:49:35 |
| 205_00:49:35  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 205_01:21:15 |
| 205_01:21:15  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 205_02:06:15 |
| 205_02:06:15  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 205_02:27:35 |
| 205_02:27:35  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 205_02:59:15 |
| 205_02:59:15  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 205_03:20:35 |
| 205_03:20:35  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 205_03:52:15 |
| 205_03:52:15  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 205_04:23:55 |

|   |   |      |                 |          |   |   |      |              |
|---|---|------|-----------------|----------|---|---|------|--------------|
| 205_04:23:55  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 205_05:08:55 |
| 205_05:08:55  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 205_05:30:15 |
| 205_05:30:15  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 205_06:01:55 |
| 205_06:01:55  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 205_06:23:15 |
| 205_06:23:15  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 205_06:54:55 |
| 205_06:54:55  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 205_07:26:35 |
| 205_07:26:35  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 205_08:11:35 |
| 205_08:11:35  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 205_08:32:55 |
| 205_08:32:55  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 205_09:04:35 |
| 205_09:04:35  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 205_09:25:55 |
| 205_09:25:55  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 205_09:57:35 |
| <b>MWNV 23/07/2016 09:28:09 - 23/07/2016 10:38:09</b> |   |      |                 |          |   |   |      |              |
| 205_10:03:05  | 1 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 205_10:03:15 |
| 205_10:03:15  | 0 | DFMS | Mode            | 1        | 0 | 0 | 120  | 205_10:05:15 |
| 205_10:05:15  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1620 | 205_10:32:15 |
| 205_10:32:15  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 205_11:03:55 |
| 205_11:03:55  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 205_11:35:35 |
| 205_11:35:35  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 205_12:20:35 |
| 205_12:20:35  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 205_12:41:55 |
| 205_12:41:55  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 205_13:13:35 |
| 205_13:13:35  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 205_13:34:55 |
| 205_13:34:55  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 205_14:06:35 |
| 205_14:06:35  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 205_14:38:15 |
| 205_14:38:15  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 205_15:23:15 |
| 205_15:23:15  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 205_15:44:35 |
| 205_15:44:35  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 205_16:16:15 |
| 205_16:16:15  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 205_16:37:35 |
| 205_16:37:35  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 205_17:09:15 |
| 205_17:09:15  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 205_17:40:55 |
| 205_17:40:55  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 205_18:25:55 |
| 205_18:25:55  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 205_18:47:15 |
| 205_18:47:15  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 205_19:18:55 |
| 205_19:18:55  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 205_19:40:15 |
| <b>MWNV 23/07/2016 19:31:19 - 23/07/2016 20:41:19</b> |   |      |                 |          |   |   |      |              |
| 205_19:40:15  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 205_20:11:55 |

|   |   |        |                 |               |    |   |       |              |
|---|---|--------|-----------------|---------------|----|---|-------|--------------|
| 205_20:11:55  | 0 | DFMS   | Mode            | 564           | 0  | 0 | 1900  | 205_20:43:35 |
| 205_20:43:35  | 0 | DFMS   | Mode            | 566           | 0  | 0 | 2700  | 205_21:28:35 |
| 205_21:28:35  | 0 | DFMS   | Mode            | 502           | 0  | 0 | 1280  | 205_21:49:55 |
| 205_21:49:55  | 0 | DFMS   | Mode            | 562           | 0  | 0 | 1900  | 205_22:21:35 |
| 205_22:21:35  | 0 | DFMS   | Mode            | 502           | 0  | 0 | 1280  | 205_22:42:55 |
| 205_22:42:55  | 0 | DFMS   | Mode            | 562           | 0  | 0 | 1900  | 205_23:14:35 |
| 205_23:20:29  | 1 | ROSINA | Flight sequence | ZRNP2002      | 0  | 0 | 120   | 205_23:22:29 |
| 205_23:22:29  | 0 | COPS   | Mode            | 0             | 0  | 0 | 150   | 205_23:24:59 |
| <b>MOCM 23/07/2016 23:25:00 - 24/07/2016 05:55:00</b> |   |        |                 |               |    |   |       |              |
| 206_04:53:00  | 1 | RTOF   | Flight sequence | ARNF004A      | 0  | 0 | 120   | 206_04:55:00 |
| 206_04:55:00  | 0 | RTOF   | Flight sequence | ARNS041A_RTOF | 36 | 0 | 60    | 206_04:56:00 |
| 206_04:56:00  | 0 | RTOF   | Mode            | 51            | 5  | 0 | 3660  | 206_05:57:00 |
| 206_05:55:00  | 1 | COPS   | Mode            | 396           | 1  | 0 | 60    | 206_05:56:00 |
| 206_05:56:00  | 1 | DFMS   | Mode            | 502           | 0  | 0 | 1620  | 206_06:23:00 |
| 206_05:57:00  | 0 | RTOF   | Mode            | 521           | 15 | 9 | 34970 | 206_15:39:50 |
| 206_06:23:00  | 0 | DFMS   | Mode            | 562           | 0  | 0 | 1900  | 206_06:54:40 |
| 206_06:54:40  | 0 | DFMS   | Mode            | 502           | 0  | 0 | 1280  | 206_07:16:00 |
| 206_07:16:00  | 0 | DFMS   | Mode            | 562           | 0  | 0 | 1900  | 206_07:47:40 |
| 206_07:47:40  | 0 | DFMS   | Mode            | 564           | 0  | 0 | 1900  | 206_08:19:20 |
| 206_08:19:20  | 0 | DFMS   | Mode            | 566           | 0  | 0 | 2700  | 206_09:04:20 |
| 206_09:04:20  | 0 | DFMS   | Mode            | 502           | 0  | 0 | 1280  | 206_09:25:40 |
| 206_09:25:40  | 0 | DFMS   | Mode            | 562           | 0  | 0 | 1900  | 206_09:57:20 |
| 206_09:57:20  | 0 | DFMS   | Mode            | 502           | 0  | 0 | 1280  | 206_10:18:40 |
| 206_10:18:40  | 0 | DFMS   | Mode            | 562           | 0  | 0 | 1900  | 206_10:50:20 |
| 206_10:50:20  | 0 | DFMS   | Mode            | 564           | 0  | 0 | 1900  | 206_11:22:00 |
| 206_11:22:00  | 0 | DFMS   | Mode            | 566           | 0  | 0 | 2700  | 206_12:07:00 |
| 206_12:07:00  | 0 | DFMS   | Mode            | 502           | 0  | 0 | 1280  | 206_12:28:20 |
| 206_12:28:20  | 0 | DFMS   | Mode            | 562           | 0  | 0 | 1900  | 206_13:00:00 |
| 206_13:00:00  | 0 | DFMS   | Mode            | 502           | 0  | 0 | 1280  | 206_13:21:20 |
| 206_13:21:20  | 0 | DFMS   | Mode            | 562           | 0  | 0 | 1900  | 206_13:53:00 |
| 206_13:53:00  | 0 | DFMS   | Mode            | 564           | 0  | 0 | 1900  | 206_14:24:40 |
| 206_14:24:40  | 0 | DFMS   | Mode            | 566           | 0  | 0 | 2700  | 206_15:09:40 |
| 206_15:09:40  | 0 | DFMS   | Mode            | 502           | 0  | 0 | 1280  | 206_15:31:00 |
| 206_15:31:00  | 0 | DFMS   | Mode            | 562           | 0  | 0 | 1900  | 206_16:02:40 |
| <b>MWNV 24/07/2016 15:37:38 - 24/07/2016 16:47:38</b> |   |        |                 |               |    |   |       |              |

|   |   |      |                 |          |    |   |       |              |
|---|---|------|-----------------|----------|----|---|-------|--------------|
| 206_16:05:40  | 1 | DFMS | Flight sequence | ARNS081B | 0  | 0 | 10    | 206_16:05:50 |
| 206_16:05:50  | 0 | DFMS | Mode            | 1        | 0  | 0 | 120   | 206_16:07:50 |
| 206_16:07:50  | 0 | DFMS | Mode            | 502      | 0  | 0 | 1620  | 206_16:34:50 |
| 206_16:34:50  | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900  | 206_17:06:30 |
| 206_16:47:38  | 1 | RTOF | Mode            | 521      | 15 | 8 | 30690 | 207_01:19:08 |
| 206_17:06:30  | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280  | 206_17:27:50 |
| 206_17:27:50  | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900  | 206_17:59:30 |
| 206_17:59:30  | 0 | DFMS | Mode            | 564      | 0  | 0 | 1900  | 206_18:31:10 |
| 206_18:31:10  | 0 | DFMS | Mode            | 566      | 0  | 0 | 2700  | 206_19:16:10 |
| 206_19:16:10  | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280  | 206_19:37:30 |
| 206_19:37:30  | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900  | 206_20:09:10 |
| 206_20:09:10  | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280  | 206_20:30:30 |
| 206_20:30:30  | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900  | 206_21:02:10 |
| 206_21:02:10  | 0 | DFMS | Mode            | 564      | 0  | 0 | 1900  | 206_21:33:50 |
| 206_21:33:50  | 0 | DFMS | Mode            | 566      | 0  | 0 | 2700  | 206_22:18:50 |
| 206_22:18:50  | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280  | 206_22:40:10 |
| 206_22:40:10  | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900  | 206_23:11:50 |
| 206_23:11:50  | 0 | DFMS | Mode            | 502      | 0  | 0 | 1400  | 206_23:35:10 |
| 206_23:35:10  | 0 | DFMS | Mode            | 562      | 0  | 0 | 2020  | 207_00:08:50 |
| 207_00:08:50  | 0 | DFMS | Mode            | 564      | 0  | 0 | 1900  | 207_00:40:30 |
| 207_00:40:30  | 0 | DFMS | Mode            | 566      | 0  | 0 | 2700  | 207_01:25:30 |
| 207_01:19:08  | 0 | RTOF | Mode            | 181      | 0  | 2 | 840   | 207_01:33:08 |
| 207_01:25:30  | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280  | 207_01:46:50 |
| 207_01:36:37  | 1 | RTOF | Flight sequence | ARNS081A | 0  | 0 | 10    | 207_01:36:47 |
| 207_01:36:47  | 0 | RTOF | Mode            | 1        | 0  | 0 | 240   | 207_01:40:47 |
| <b>MWNV 25/07/2016 01:40:47 - 25/07/2016 02:50:47</b> |   |      |                 |          |    |   |       |              |
| 207_01:40:47  | 0 | RTOF | Flight sequence | ARNF014A | 0  | 0 | 120   | 207_01:42:47 |
| 207_01:46:50  | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900  | 207_02:18:30 |
| 207_02:18:30  | 0 | DFMS | Flight sequence | ARNS081B | 0  | 0 | 10    | 207_02:18:40 |
| 207_02:18:40  | 0 | DFMS | Mode            | 1        | 0  | 0 | 120   | 207_02:20:40 |
| 207_02:20:40  | 0 | DFMS | Mode            | 502      | 0  | 0 | 1620  | 207_02:47:40 |
| 207_02:47:40  | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900  | 207_03:19:20 |
| 207_03:19:20  | 0 | DFMS | Mode            | 564      | 0  | 0 | 1900  | 207_03:51:00 |
| 207_03:51:00  | 0 | DFMS | Mode            | 566      | 0  | 0 | 2700  | 207_04:36:00 |
| 207_04:36:00  | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280  | 207_04:57:20 |

|   |   |      |                 |          |   |   |      |              |
|---|---|------|-----------------|----------|---|---|------|--------------|
| 207_04:57:20  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 207_05:29:00 |
| 207_05:29:00  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 207_05:50:20 |
| 207_05:50:20  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 207_06:22:00 |
| 207_06:22:00  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 207_06:53:40 |
| 207_06:53:40  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 207_07:38:40 |
| 207_07:38:40  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1400 | 207_08:02:00 |
| 207_08:02:00  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 207_08:33:40 |
| 207_08:33:40  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 207_08:55:00 |
| 207_08:55:00  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 207_09:26:40 |
| 207_09:26:40  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 207_09:58:20 |
| 207_09:58:20  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 207_10:43:20 |
| 207_10:43:20  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 207_11:04:40 |
| 207_11:04:40  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 207_11:36:20 |
| 207_11:36:20  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 207_11:57:40 |
| <b>MWNV 25/07/2016 11:43:57 - 25/07/2016 12:53:57</b> |   |      |                 |          |   |   |      |              |
| 207_11:57:40  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 207_12:29:20 |
| 207_12:33:20  | 1 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 207_12:33:30 |
| 207_12:33:30  | 0 | DFMS | Mode            | 1        | 0 | 0 | 120  | 207_12:35:30 |
| 207_12:35:30  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1620 | 207_13:02:30 |
| 207_13:02:30  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 207_13:34:10 |
| 207_13:34:10  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 207_14:05:50 |
| 207_14:05:50  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 207_14:50:50 |
| 207_14:50:50  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 207_15:12:10 |
| 207_15:12:10  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 207_15:43:50 |
| 207_15:43:50  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 207_16:05:10 |
| 207_16:05:10  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 207_16:36:50 |
| 207_16:36:50  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 207_17:08:30 |
| 207_17:08:30  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 207_17:53:30 |
| 207_17:53:30  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 207_18:14:50 |
| 207_18:14:50  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 207_18:46:30 |
| 207_18:46:30  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 207_19:07:50 |
| 207_19:07:50  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 207_19:39:30 |
| 207_19:39:30  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 207_20:11:10 |
| 207_20:11:10  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 207_20:56:10 |
| 207_20:56:10  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 207_21:17:30 |



|   |   |      |                 |               |    |   |       |              |
|---|---|------|-----------------|---------------|----|---|-------|--------------|
| 207_21:17:30  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 207_21:49:10 |
| <b>MWNV 25/07/2016 21:47:06 - 25/07/2016 22:57:06</b> |   |      |                 |               |    |   |       |              |
| 207_21:49:10  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 207_22:10:30 |
| 207_22:10:30  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 207_22:42:10 |
| 207_22:47:10  | 1 | DFMS | Flight sequence | ARNS081B      | 0  | 0 | 10    | 207_22:47:20 |
| 207_22:47:20  | 0 | DFMS | Mode            | 1             | 0  | 0 | 120   | 207_22:49:20 |
| 207_22:49:20  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1620  | 207_23:16:20 |
| 207_23:16:20  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 207_23:48:00 |
| 207_23:48:00  | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 208_00:19:40 |
| 208_00:19:40  | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 208_01:04:40 |
| 208_01:04:40  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 208_01:26:00 |
| 208_01:26:00  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 208_01:57:40 |
| 208_01:57:40  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 208_02:19:00 |
| 208_02:19:00  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 208_02:50:40 |
| 208_02:50:40  | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 208_03:22:20 |
| 208_03:22:20  | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 208_04:07:20 |
| 208_04:07:20  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 208_04:28:40 |
| 208_04:28:40  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 208_05:00:20 |
| 208_05:00:20  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 208_05:21:40 |
| 208_05:21:40  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 208_05:53:20 |
| 208_05:53:20  | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 208_06:25:00 |
| 208_06:25:00  | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 208_07:10:00 |
| 208_07:10:00  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 208_07:31:20 |
| 208_07:31:20  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 208_08:03:00 |
| <b>MWNV 26/07/2016 07:50:16 - 26/07/2016 09:00:16</b> |   |      |                 |               |    |   |       |              |
| 208_07:56:16  | 1 | RTOF | Flight sequence | ARNF004A      | 0  | 0 | 120   | 208_07:58:16 |
| 208_07:58:16  | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 36 | 0 | 60    | 208_07:59:16 |
| 208_07:59:16  | 0 | RTOF | Mode            | 51            | 5  | 0 | 3660  | 208_09:00:16 |
| 208_08:06:00  | 1 | DFMS | Flight sequence | ARNS081B      | 0  | 0 | 10    | 208_08:06:10 |
| 208_08:06:10  | 0 | DFMS | Mode            | 1             | 0  | 0 | 120   | 208_08:08:10 |
| 208_08:08:10  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1620  | 208_08:35:10 |
| 208_08:35:10  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 208_09:06:50 |
| 208_09:00:16  | 0 | RTOF | Mode            | 521           | 15 | 8 | 31560 | 208_17:46:16 |
| 208_09:06:50  | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 208_09:38:30 |
| 208_09:38:30  | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 208_10:23:30 |

|              |   |      |      |     |   |   |      |              |
|--------------|---|------|------|-----|---|---|------|--------------|
| 208_10:23:30 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 208_10:44:50 |
| 208_10:44:50 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 208_11:16:30 |
| 208_11:16:30 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 208_11:37:50 |
| 208_11:37:50 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 208_12:09:30 |
| 208_12:09:30 | 0 | DFMS | Mode | 564 | 0 | 0 | 1900 | 208_12:41:10 |
| 208_12:41:10 | 0 | DFMS | Mode | 566 | 0 | 0 | 2700 | 208_13:26:10 |
| 208_13:26:10 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 208_13:47:30 |
| 208_13:47:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 208_14:19:10 |
| 208_14:19:10 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 208_14:40:30 |
| 208_14:40:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 208_15:12:10 |
| 208_15:12:10 | 0 | DFMS | Mode | 564 | 0 | 0 | 1900 | 208_15:43:50 |
| 208_15:43:50 | 0 | DFMS | Mode | 566 | 0 | 0 | 2700 | 208_16:28:50 |
| 208_16:28:50 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 208_16:50:10 |
| 208_16:50:10 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 208_17:21:50 |
| 208_17:21:50 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 208_17:43:10 |
| 208_17:43:10 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 208_18:14:50 |

**MWNV 26/07/2016 17:53:25 - 26/07/2016 19:03:25**

|              |   |        |                 |          |    |   |       |              |
|--------------|---|--------|-----------------|----------|----|---|-------|--------------|
| 208_18:14:50 | 0 | DFMS   | Mode            | 564      | 0  | 0 | 1900  | 208_18:46:30 |
| 208_18:46:30 | 0 | DFMS   | Mode            | 566      | 0  | 0 | 2700  | 208_19:31:30 |
| 208_19:03:25 | 1 | RTOF   | Mode            | 521      | 15 | 3 | 13640 | 208_22:50:45 |
| 208_19:31:30 | 0 | DFMS   | Mode            | 502      | 0  | 0 | 1280  | 208_19:52:50 |
| 208_19:52:50 | 0 | DFMS   | Mode            | 562      | 0  | 0 | 1900  | 208_20:24:30 |
| 208_20:24:30 | 0 | DFMS   | Mode            | 502      | 0  | 0 | 1280  | 208_20:45:50 |
| 208_20:45:50 | 0 | DFMS   | Mode            | 562      | 0  | 0 | 1900  | 208_21:17:30 |
| 208_21:17:30 | 0 | DFMS   | Mode            | 564      | 0  | 0 | 1900  | 208_21:49:10 |
| 208_21:49:10 | 0 | DFMS   | Mode            | 566      | 0  | 0 | 2700  | 208_22:34:10 |
| 208_22:34:10 | 0 | DFMS   | Mode            | 502      | 0  | 1 | 2560  | 208_23:16:50 |
| 208_22:50:45 | 0 | RTOF   | Mode            | 521      | 6  | 0 | 1520  | 208_23:16:05 |
| 208_23:18:29 | 1 | ROSINA | Flight sequence | ZRNP2002 | 0  | 0 | 240   | 208_23:22:29 |
| 208_23:22:29 | 0 | COPS   | Mode            | 0        | 0  | 0 | 150   | 208_23:24:59 |

**MOCM 26/07/2016 23:25:00 - 27/07/2016 05:55:00**

# STP119

| Start time  | Set Time | Instrument | Mode/Sequence   | Mode/Sequence number | Cycle number | Repetition | Duration [s] | Stop time    |
|---|----------|------------|-----------------|----------------------|--------------|------------|--------------|--------------|
| <b>MOCM</b> <span style="float: right;">26/07/2016 23:25</span> <span style="float: right;">27/07/2016 05:55</span> |          |            |                 |                      |              |            |              |              |
| 208_23:30:00  | 1        | RTOF       | Flight sequence | ARNF014A             | 0            | 0          | 120          | 208_23:32:00 |
| 209_05:55:00  | 1        | COPS       | Mode            | 396                  | 1            | 0          | 60           | 209_05:56:00 |
| 209_05:56:00  | 1        | DFMS       | Mode            | 502                  | 0            | 0          | 1620         | 209_06:23:00 |
| 209_06:23:00  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 209_06:54:40 |
| 209_06:25:00  | 1        | COPS       | Flight sequence | ARNF016A             | 0            | 0          | 60           | 209_06:26:00 |
| 209_06:54:40  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 209_07:16:00 |
| 209_07:16:00  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 209_07:47:40 |
| 209_07:47:40  | 0        | DFMS       | Mode            | 564                  | 0            | 0          | 1900         | 209_08:19:20 |
| 209_08:19:20  | 0        | DFMS       | Mode            | 566                  | 0            | 0          | 2700         | 209_09:04:20 |
| 209_09:04:20  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 209_09:25:40 |
| 209_09:25:40  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 209_09:57:20 |
| <b>MWNV</b> <span style="float: right;">27/07/2016 09:37</span> <span style="float: right;">27/07/2016 10:47</span> |          |            |                 |                      |              |            |              |              |
| 209_09:57:20  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 209_10:18:40 |
| 209_10:18:40  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 209_10:50:20 |
| 209_10:50:20  | 0        | DFMS       | Mode            | 564                  | 0            | 0          | 1900         | 209_11:22:00 |
| 209_11:22:00  | 0        | DFMS       | Mode            | 566                  | 0            | 0          | 2700         | 209_12:07:00 |
| 209_12:07:00  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 209_12:28:20 |
| 209_12:28:20  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 209_13:00:00 |
| 209_13:00:00  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 209_13:21:20 |
| 209_13:21:20  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 209_13:53:00 |
| 209_13:53:00  | 0        | DFMS       | Mode            | 564                  | 0            | 0          | 1900         | 209_14:24:40 |
| 209_14:24:40  | 0        | DFMS       | Mode            | 566                  | 0            | 0          | 2700         | 209_15:09:40 |
| 209_15:09:40  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 209_15:31:00 |
| 209_15:31:00  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 209_16:02:40 |
| 209_16:02:40  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 209_16:24:00 |
| 209_16:24:00  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 209_16:55:40 |
| 209_16:55:40  | 0        | DFMS       | Mode            | 564                  | 0            | 0          | 1900         | 209_17:27:20 |
| 209_17:27:20  | 0        | DFMS       | Mode            | 566                  | 0            | 0          | 2700         | 209_18:12:20 |
| 209_18:12:20  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 209_18:33:40 |
| 209_18:33:40  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 209_19:05:20 |
| 209_19:05:20  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 209_19:26:40 |

|   |   |      |                 |          |   |   |      |              |
|---|---|------|-----------------|----------|---|---|------|--------------|
| 209_19:26:40                                  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 209_19:58:20 |
| <b>MWNV</b> 27/07/2016 19:50 27/07/2016 21:00 |   |      |                 |          |   |   |      |              |
| 209_20:01:05                                  | 1 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 209_20:01:15 |
| 209_20:01:15                                  | 0 | DFMS | Mode            | 1        | 0 | 0 | 120  | 209_20:03:15 |
| 209_20:03:15                                  | 0 | DFMS | Mode            | 564      | 0 | 0 | 2450 | 209_20:44:05 |
| 209_20:44:05                                  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 209_21:29:05 |
| 209_21:29:05                                  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 209_21:50:25 |
| 209_21:50:25                                  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 209_22:22:05 |
| 209_22:22:05                                  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 209_22:43:25 |
| 209_22:43:25                                  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 209_23:15:05 |
| 209_23:15:05                                  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 209_23:46:45 |
| 209_23:46:45                                  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 210_00:31:45 |
| 210_00:31:45                                  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 210_00:53:05 |
| 210_00:53:05                                  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 210_01:24:45 |
| 210_01:24:45                                  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 210_01:46:05 |
| 210_01:46:05                                  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 210_02:17:45 |
| 210_02:17:45                                  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 210_02:49:25 |
| 210_02:49:25                                  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 210_03:34:25 |
| 210_03:34:25                                  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 210_03:55:45 |
| 210_03:55:45                                  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 210_04:27:25 |
| 210_04:27:25                                  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 210_04:48:45 |
| 210_04:48:45                                  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 210_05:20:25 |
| 210_05:20:25                                  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 210_05:52:05 |
| 210_05:52:05                                  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 210_06:37:05 |
| <b>MWNV</b> 28/07/2016 06:03 28/07/2016 07:13 |   |      |                 |          |   |   |      |              |
| 210_06:39:50                                  | 1 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 210_06:40:00 |
| 210_06:40:00                                  | 0 | DFMS | Mode            | 1        | 0 | 0 | 120  | 210_06:42:00 |
| 210_06:42:00                                  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1620 | 210_07:09:00 |
| 210_07:09:00                                  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 210_07:40:40 |
| 210_07:40:40                                  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 210_08:02:00 |
| 210_08:02:00                                  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 210_08:33:40 |
| 210_08:33:40                                  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 210_09:05:20 |
| 210_09:05:20                                  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 210_09:50:20 |
| 210_09:50:20                                  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 210_10:11:40 |
| 210_10:11:40                                  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 210_10:43:20 |

|  |   |      |                 |          |   |   |      |              |
|--|---|------|-----------------|----------|---|---|------|--------------|
| 210_10:43:20                           | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 210_11:04:40 |
| 210_11:04:40                           | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 210_11:36:20 |
| 210_11:36:20                           | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 210_12:08:00 |
| 210_12:08:00                           | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 210_12:53:00 |
| 210_12:53:00                           | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 210_13:14:20 |
| 210_13:14:20                           | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 210_13:46:00 |
| 210_13:46:00                           | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 210_14:07:20 |
| 210_14:07:20                           | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 210_14:39:00 |
| 210_14:39:00                           | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 210_15:10:40 |
| 210_15:10:40                           | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 210_15:55:40 |
| 210_15:55:40                           | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 210_16:17:00 |
| MWNV 28/07/2016 16:16 28/07/2016 17:26 |   |      |                 |          |   |   |      |              |
| 210_16:17:00                           | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 210_16:48:40 |
| 210_16:50:25                           | 1 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 210_16:50:35 |
| 210_16:50:35                           | 0 | DFMS | Mode            | 1        | 0 | 0 | 120  | 210_16:52:35 |
| 210_16:52:35                           | 0 | DFMS | Mode            | 502      | 0 | 0 | 1620 | 210_17:19:35 |
| 210_17:19:35                           | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 210_17:51:15 |
| 210_17:51:15                           | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 210_18:12:35 |
| 210_18:12:35                           | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 210_18:44:15 |
| 210_18:44:15                           | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 210_19:15:55 |
| 210_19:15:55                           | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 210_20:00:55 |
| 210_20:00:55                           | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 210_20:22:15 |
| 210_20:22:15                           | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 210_20:53:55 |
| 210_20:53:55                           | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 210_21:15:15 |
| 210_21:15:15                           | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 210_21:46:55 |
| 210_21:46:55                           | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 210_22:18:35 |
| 210_22:18:35                           | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 210_23:03:35 |
| 210_23:03:35                           | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 210_23:24:55 |
| 210_23:24:55                           | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 210_23:56:35 |
| 210_23:56:35                           | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 211_00:17:55 |
| 211_00:17:55                           | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 211_00:49:35 |
| 211_00:49:35                           | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 211_01:21:15 |
| 211_01:21:15                           | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 211_02:06:15 |
| 211_02:06:15                           | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 211_02:27:35 |
| 211_02:27:35                           | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 211_02:59:15 |

| MWNV         |   |      |                 |                  |                  |   |      |              |
|--------------|---|------|-----------------|------------------|------------------|---|------|--------------|
|              |   |      |                 | 29/07/2016 02:29 | 29/07/2016 03:39 |   |      |              |
| 211_03:03:00 | 1 | DFMS | Flight sequence | ARNS081B         | 0                | 0 | 10   | 211_03:03:10 |
| 211_03:03:10 | 0 | DFMS | Mode            | 1                | 0                | 0 | 120  | 211_03:05:10 |
| 211_03:05:10 | 0 | DFMS | Mode            | 502              | 0                | 0 | 1620 | 211_03:32:10 |
| 211_03:32:10 | 0 | DFMS | Mode            | 562              | 0                | 0 | 1900 | 211_04:03:50 |
| 211_04:03:50 | 0 | DFMS | Mode            | 564              | 0                | 0 | 1900 | 211_04:35:30 |
| 211_04:35:30 | 0 | DFMS | Mode            | 566              | 0                | 0 | 2700 | 211_05:20:30 |
| 211_05:20:30 | 0 | DFMS | Mode            | 502              | 0                | 0 | 1280 | 211_05:41:50 |
| 211_05:41:50 | 0 | DFMS | Mode            | 562              | 0                | 0 | 1900 | 211_06:13:30 |
| 211_06:13:30 | 0 | DFMS | Mode            | 502              | 0                | 0 | 1280 | 211_06:34:50 |
| 211_06:34:50 | 0 | DFMS | Mode            | 562              | 0                | 0 | 1900 | 211_07:06:30 |
| 211_07:06:30 | 0 | DFMS | Mode            | 564              | 0                | 0 | 1900 | 211_07:38:10 |
| 211_07:38:10 | 0 | DFMS | Mode            | 566              | 0                | 0 | 2700 | 211_08:23:10 |
| 211_08:23:10 | 0 | DFMS | Mode            | 502              | 0                | 0 | 1280 | 211_08:44:30 |
| 211_08:44:30 | 0 | DFMS | Mode            | 562              | 0                | 0 | 1900 | 211_09:16:10 |
| 211_09:16:10 | 0 | DFMS | Mode            | 502              | 0                | 0 | 1280 | 211_09:37:30 |
| 211_09:37:30 | 0 | DFMS | Mode            | 562              | 0                | 0 | 1900 | 211_10:09:10 |
| 211_10:09:10 | 0 | DFMS | Mode            | 564              | 0                | 0 | 1900 | 211_10:40:50 |
| 211_10:40:50 | 0 | DFMS | Mode            | 566              | 0                | 0 | 2700 | 211_11:25:50 |
| 211_11:25:50 | 0 | DFMS | Mode            | 502              | 0                | 0 | 1280 | 211_11:47:10 |
| 211_11:47:10 | 0 | DFMS | Mode            | 562              | 0                | 0 | 1900 | 211_12:18:50 |
| 211_12:18:50 | 0 | DFMS | Mode            | 502              | 0                | 0 | 1280 | 211_12:40:10 |
| 211_12:40:10 | 0 | DFMS | Mode            | 562              | 0                | 0 | 1900 | 211_13:11:50 |
| MWNV         |   |      |                 |                  |                  |   |      |              |
|              |   |      |                 | 29/07/2016 12:42 | 29/07/2016 13:52 |   |      |              |
| 211_13:14:35 | 1 | DFMS | Flight sequence | ARNS081B         | 0                | 0 | 10   | 211_13:14:45 |
| 211_13:14:45 | 0 | DFMS | Mode            | 1                | 0                | 0 | 120  | 211_13:16:45 |
| 211_13:16:45 | 0 | DFMS | Mode            | 502              | 0                | 0 | 1620 | 211_13:43:45 |
| 211_13:43:45 | 0 | DFMS | Mode            | 562              | 0                | 0 | 1900 | 211_14:15:25 |
| 211_14:15:25 | 0 | DFMS | Mode            | 564              | 0                | 0 | 1900 | 211_14:47:05 |
| 211_14:47:05 | 0 | DFMS | Mode            | 566              | 0                | 0 | 2700 | 211_15:32:05 |
| 211_15:32:05 | 0 | DFMS | Mode            | 502              | 0                | 0 | 1280 | 211_15:53:25 |
| 211_15:53:25 | 0 | DFMS | Mode            | 562              | 0                | 0 | 1900 | 211_16:25:05 |
| 211_16:25:05 | 0 | DFMS | Mode            | 502              | 0                | 0 | 1280 | 211_16:46:25 |
| 211_16:46:25 | 0 | DFMS | Mode            | 562              | 0                | 0 | 1900 | 211_17:18:05 |
| 211_17:18:05 | 0 | DFMS | Mode            | 564              | 0                | 0 | 1900 | 211_17:49:45 |

|  |   |      |                 |               |    |   |       |              |
|--|---|------|-----------------|---------------|----|---|-------|--------------|
| 211_17:49:45                           | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 211_18:34:45 |
| 211_18:34:45                           | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 211_18:56:05 |
| 211_18:56:05                           | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 211_19:27:45 |
| 211_19:27:45                           | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 211_19:49:05 |
| 211_19:49:05                           | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 211_20:20:45 |
| 211_20:20:45                           | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 211_20:52:25 |
| 211_20:52:25                           | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 211_21:37:25 |
| 211_21:37:25                           | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 211_21:58:45 |
| 211_21:58:45                           | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 211_22:30:25 |
| 211_22:30:25                           | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 211_22:51:45 |
| 211_22:51:45                           | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 211_23:23:25 |
| 211_23:23:25                           | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 211_23:44:45 |
| MWOL 29/07/2016 23:25 30/07/2016 01:35 |   |      |                 |               |    |   |       |              |
| 211_23:44:45                           | 0 | DFMS | Flight sequence | ARNS081B      | 0  | 0 | 10    | 211_23:44:55 |
| 211_23:44:55                           | 0 | DFMS | Mode            | 1             | 0  | 0 | 120   | 211_23:46:55 |
| 211_23:46:55                           | 0 | DFMS | Mode            | 502           | 0  | 0 | 1620  | 212_00:13:55 |
| 212_00:13:55                           | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 212_00:45:35 |
| 212_00:45:35                           | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 212_01:17:15 |
| 212_01:17:15                           | 0 | DFMS | Mode            | 566           | 0  | 0 | 2820  | 212_02:04:15 |
| 212_01:42:00                           | 1 | RTOF | Flight sequence | ARNF004A      | 0  | 0 | 120   | 212_01:44:00 |
| 212_01:44:00                           | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 40 | 0 | 60    | 212_01:45:00 |
| 212_01:45:00                           | 0 | RTOF | Mode            | 51            | 5  | 0 | 3660  | 212_02:46:00 |
| 212_02:04:15                           | 0 | DFMS | Mode            | 502           | 0  | 0 | 1400  | 212_02:27:35 |
| 212_02:27:35                           | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 212_02:59:15 |
| 212_02:46:00                           | 0 | RTOF | Mode            | 521           | 0  | 0 | 1130  | 212_03:04:50 |
| 212_02:59:15                           | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 212_03:20:35 |
| 212_03:20:35                           | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 212_03:52:15 |
| 212_03:52:15                           | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 212_04:23:55 |
| 212_04:05:00                           | 1 | RTOF | Mode            | 521           | 15 | 5 | 20460 | 212_09:46:00 |
| 212_04:23:55                           | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 212_05:08:55 |
| 212_05:08:55                           | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 212_05:30:15 |
| 212_05:30:15                           | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 212_06:01:55 |
| 212_06:01:55                           | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 212_06:23:15 |
| 212_06:23:15                           | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 212_06:54:55 |
| 212_06:54:55                           | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 212_07:26:35 |

|  |   |      |                 |          |   |   |      |              |
|--|---|------|-----------------|----------|---|---|------|--------------|
| 212_07:26:35                           | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 212_08:11:35 |
| 212_08:11:35                           | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 212_08:32:55 |
| 212_08:32:55                           | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 212_09:04:35 |
| 212_09:04:35                           | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 212_09:25:55 |
| 212_09:25:55                           | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 212_09:57:35 |
| MWNV 30/07/2016 09:28 30/07/2016 10:38 |   |      |                 |          |   |   |      |              |
| 212_09:55:00                           | 1 | RTOF | Flight sequence | ARNS081A | 0 | 0 | 10   | 212_09:55:10 |
| 212_09:55:10                           | 0 | RTOF | Mode            | 1        | 0 | 0 | 240  | 212_09:59:10 |
| 212_09:59:10                           | 0 | RTOF | Flight sequence | ARNF014A | 0 | 0 | 120  | 212_10:01:10 |
| 212_10:03:05                           | 1 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 212_10:03:15 |
| 212_10:03:15                           | 0 | DFMS | Mode            | 1        | 0 | 0 | 120  | 212_10:05:15 |
| 212_10:05:15                           | 0 | DFMS | Mode            | 502      | 0 | 0 | 1620 | 212_10:32:15 |
| 212_10:32:15                           | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 212_11:03:55 |
| 212_11:03:55                           | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 212_11:35:35 |
| 212_11:35:35                           | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 212_12:20:35 |
| 212_12:20:35                           | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 212_12:41:55 |
| 212_12:41:55                           | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 212_13:13:35 |
| 212_13:13:35                           | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 212_13:34:55 |
| 212_13:34:55                           | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 212_14:06:35 |
| 212_14:06:35                           | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 212_14:38:15 |
| 212_14:38:15                           | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 212_15:23:15 |
| 212_15:23:15                           | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 212_15:44:35 |
| 212_15:44:35                           | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 212_16:16:15 |
| 212_16:16:15                           | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 212_16:37:35 |
| 212_16:37:35                           | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 212_17:09:15 |
| 212_17:09:15                           | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 212_17:40:55 |
| 212_17:40:55                           | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 212_18:25:55 |
| 212_18:25:55                           | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 212_18:47:15 |
| 212_18:47:15                           | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 212_19:18:55 |
| 212_19:18:55                           | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 212_19:40:15 |
| MWNV 30/07/2016 19:31 30/07/2016 20:41 |   |      |                 |          |   |   |      |              |
| 212_19:40:15                           | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 212_20:11:55 |
| 212_20:11:55                           | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 212_20:43:35 |
| 212_20:43:35                           | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 212_21:28:35 |
| 212_21:28:35                           | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 212_21:49:55 |



|              |   |        |                 |          |   |   |      |              |
|--------------|---|--------|-----------------|----------|---|---|------|--------------|
| 212_21:49:55 | 0 | DFMS   | Mode            | 562      | 0 | 0 | 1900 | 212_22:21:35 |
| 212_22:21:35 | 0 | DFMS   | Mode            | 502      | 0 | 0 | 1280 | 212_22:42:55 |
| 212_22:42:55 | 0 | DFMS   | Mode            | 562      | 0 | 0 | 1900 | 212_23:14:35 |
| 212_23:10:00 | 1 | COPS   | Flight sequence | ARNF016B | 0 | 0 | 60   | 212_23:11:00 |
| 212_23:20:29 | 1 | ROSINA | Flight sequence | ZRNP2002 | 0 | 0 | 120  | 212_23:22:29 |
| 212_23:22:29 | 0 | COPS   | Mode            | 0        | 0 | 0 | 150  | 212_23:24:59 |

|  |  |  |             |                         |                         |  |  |  |
|--|--|--|-------------|-------------------------|-------------------------|--|--|--|
|  |  |  | <b>MOCM</b> | <b>30/07/2016 23:25</b> | <b>31/07/2016 05:55</b> |  |  |  |
|--|--|--|-------------|-------------------------|-------------------------|--|--|--|

|              |   |      |                 |          |   |   |      |              |
|--------------|---|------|-----------------|----------|---|---|------|--------------|
| 213_05:55:00 | 1 | COPS | Mode            | 396      | 1 | 0 | 60   | 213_05:56:00 |
| 213_05:56:00 | 1 | DFMS | Mode            | 502      | 0 | 0 | 1620 | 213_06:23:00 |
| 213_06:25:00 | 1 | COPS | Flight sequence | ARNF016A | 0 | 0 | 60   | 213_06:26:00 |
| 213_06:26:00 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 213_06:57:40 |
| 213_06:57:40 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 213_07:19:00 |
| 213_07:19:00 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 213_07:50:40 |
| 213_07:50:40 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 213_08:22:20 |
| 213_08:22:20 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 213_09:07:20 |
| 213_09:07:20 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 213_09:28:40 |
| 213_09:28:40 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 213_10:00:20 |
| 213_10:00:20 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 213_10:21:40 |
| 213_10:21:40 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 213_10:53:20 |
| 213_10:53:20 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 213_11:25:00 |
| 213_11:25:00 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 213_12:10:00 |
| 213_12:10:00 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 213_12:31:20 |
| 213_12:31:20 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 213_13:03:00 |
| 213_13:03:00 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 213_13:24:20 |
| 213_13:24:20 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 213_13:56:00 |
| 213_13:56:00 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 213_14:27:40 |
| 213_14:27:40 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 213_15:12:40 |
| 213_15:12:40 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 213_15:34:00 |
| 213_15:34:00 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 213_16:05:40 |

|  |  |  |             |                         |                         |  |  |  |
|--|--|--|-------------|-------------------------|-------------------------|--|--|--|
|  |  |  | <b>MWNV</b> | <b>31/07/2016 15:37</b> | <b>31/07/2016 16:47</b> |  |  |  |
|--|--|--|-------------|-------------------------|-------------------------|--|--|--|

|              |   |      |                 |          |   |   |      |              |
|--------------|---|------|-----------------|----------|---|---|------|--------------|
| 213_16:05:40 | 0 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 213_16:05:50 |
| 213_16:05:50 | 0 | DFMS | Mode            | 1        | 0 | 0 | 120  | 213_16:07:50 |
| 213_16:07:50 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1620 | 213_16:34:50 |
| 213_16:34:50 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 213_17:06:30 |
| 213_17:06:30 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 213_17:27:50 |

|              |   |      |      |     |   |   |      |              |
|--------------|---|------|------|-----|---|---|------|--------------|
| 213_17:27:50 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 213_17:59:30 |
| 213_17:59:30 | 0 | DFMS | Mode | 564 | 0 | 0 | 1900 | 213_18:31:10 |
| 213_18:31:10 | 0 | DFMS | Mode | 566 | 0 | 0 | 2700 | 213_19:16:10 |
| 213_19:16:10 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 213_19:37:30 |
| 213_19:37:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 213_20:09:10 |
| 213_20:09:10 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 213_20:30:30 |
| 213_20:30:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 213_21:02:10 |
| 213_21:02:10 | 0 | DFMS | Mode | 564 | 0 | 0 | 1900 | 213_21:33:50 |
| 213_21:33:50 | 0 | DFMS | Mode | 566 | 0 | 0 | 2700 | 213_22:18:50 |
| 213_22:18:50 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 213_22:40:10 |
| 213_22:40:10 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 213_23:11:50 |
| 213_23:11:50 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 213_23:33:10 |
| 213_23:33:10 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 214_00:04:50 |
| 214_00:04:50 | 0 | DFMS | Mode | 564 | 0 | 0 | 1900 | 214_00:36:30 |
| 214_00:36:30 | 0 | DFMS | Mode | 566 | 0 | 0 | 2700 | 214_01:21:30 |
| 214_01:21:30 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 214_01:42:50 |

|             |  |  |  |                         |                         |  |  |  |
|-------------|--|--|--|-------------------------|-------------------------|--|--|--|
| <b>MWNV</b> |  |  |  | <b>01/08/2016 01:40</b> | <b>01/08/2016 02:50</b> |  |  |  |
|-------------|--|--|--|-------------------------|-------------------------|--|--|--|

|              |   |      |                 |          |   |   |      |              |
|--------------|---|------|-----------------|----------|---|---|------|--------------|
| 214_01:42:50 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 214_02:14:30 |
| 214_02:14:30 | 0 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 214_02:14:40 |
| 214_02:14:40 | 0 | DFMS | Mode            | 1        | 0 | 0 | 120  | 214_02:16:40 |
| 214_02:16:40 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1620 | 214_02:43:40 |
| 214_02:43:40 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 214_03:15:20 |
| 214_03:15:20 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 214_03:47:00 |
| 214_03:47:00 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 214_04:32:00 |
| 214_04:32:00 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 214_04:53:20 |
| 214_04:53:20 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 214_05:25:00 |
| 214_05:25:00 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 214_05:46:20 |
| 214_05:46:20 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 214_06:18:00 |
| 214_06:18:00 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 214_06:49:40 |
| 214_06:49:40 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 214_07:34:40 |
| 214_07:34:40 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 214_07:56:00 |
| 214_07:56:00 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 214_08:27:40 |
| 214_08:27:40 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 214_08:49:00 |
| 214_08:49:00 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 214_09:20:40 |
| 214_09:20:40 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 214_09:52:20 |

|              |   |      |                 |                         |   |   |                         |              |
|--------------|---|------|-----------------|-------------------------|---|---|-------------------------|--------------|
| 214_09:52:20 | 0 | DFMS | Mode            | 566                     | 0 | 0 | 2700                    | 214_10:37:20 |
| 214_10:37:20 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 214_10:58:40 |
| 214_10:58:40 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 214_11:30:20 |
| 214_11:30:20 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 214_11:51:40 |
|              |   |      | <b>MWNV</b>     | <b>01/08/2016 11:43</b> |   |   | <b>01/08/2016 12:53</b> |              |
| 214_11:51:40 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 214_12:23:20 |
| 214_12:33:20 | 1 | DFMS | Flight sequence | ARNS081B                | 0 | 0 | 10                      | 214_12:33:30 |
| 214_12:33:30 | 0 | DFMS | Mode            | 1                       | 0 | 0 | 120                     | 214_12:35:30 |
| 214_12:35:30 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1620                    | 214_13:02:30 |
| 214_13:02:30 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 214_13:34:10 |
| 214_13:34:10 | 0 | DFMS | Mode            | 564                     | 0 | 0 | 1900                    | 214_14:05:50 |
| 214_14:05:50 | 0 | DFMS | Mode            | 566                     | 0 | 0 | 2700                    | 214_14:50:50 |
| 214_14:50:50 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 214_15:12:10 |
| 214_15:12:10 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 214_15:43:50 |
| 214_15:43:50 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 214_16:05:10 |
| 214_16:05:10 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 214_16:36:50 |
| 214_16:36:50 | 0 | DFMS | Mode            | 564                     | 0 | 0 | 1900                    | 214_17:08:30 |
| 214_17:08:30 | 0 | DFMS | Mode            | 566                     | 0 | 0 | 2700                    | 214_17:53:30 |
| 214_17:53:30 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 214_18:14:50 |
| 214_18:14:50 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 214_18:46:30 |
| 214_18:46:30 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 214_19:07:50 |
| 214_19:07:50 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 214_19:39:30 |
| 214_19:39:30 | 0 | DFMS | Mode            | 564                     | 0 | 0 | 1900                    | 214_20:11:10 |
| 214_20:11:10 | 0 | DFMS | Mode            | 566                     | 0 | 0 | 2700                    | 214_20:56:10 |
| 214_20:56:10 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 214_21:17:30 |
| 214_21:17:30 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 214_21:49:10 |
|              |   |      | <b>MWNV</b>     | <b>01/08/2016 21:47</b> |   |   | <b>01/08/2016 22:57</b> |              |
| 214_21:49:10 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 214_22:10:30 |
| 214_22:10:30 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 214_22:42:10 |
| 214_22:47:10 | 1 | DFMS | Flight sequence | ARNS081B                | 0 | 0 | 10                      | 214_22:47:20 |
| 214_22:47:20 | 0 | DFMS | Mode            | 1                       | 0 | 0 | 120                     | 214_22:49:20 |
| 214_22:49:20 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1620                    | 214_23:16:20 |
| 214_23:16:20 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 214_23:48:00 |
| 214_23:48:00 | 0 | DFMS | Mode            | 564                     | 0 | 0 | 1900                    | 215_00:19:40 |
| 215_00:19:40 | 0 | DFMS | Mode            | 566                     | 0 | 0 | 2700                    | 215_01:04:40 |

|  |   |      |                 |               |    |   |       |              |
|--|---|------|-----------------|---------------|----|---|-------|--------------|
| 215_01:04:40                           | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 215_01:26:00 |
| 215_01:26:00                           | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 215_01:57:40 |
| 215_01:57:40                           | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 215_02:19:00 |
| 215_02:19:00                           | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 215_02:50:40 |
| 215_02:50:40                           | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 215_03:22:20 |
| 215_03:22:20                           | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 215_04:07:20 |
| 215_04:07:20                           | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 215_04:28:40 |
| 215_04:28:40                           | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 215_05:00:20 |
| 215_05:00:20                           | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 215_05:21:40 |
| 215_05:21:40                           | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 215_05:53:20 |
| 215_05:53:20                           | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 215_06:25:00 |
| 215_06:25:00                           | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 215_07:10:00 |
| 215_07:10:00                           | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 215_07:31:20 |
| 215_07:31:20                           | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 215_08:03:00 |
| MWNV 02/08/2016 07:50 02/08/2016 09:00 |   |      |                 |               |    |   |       |              |
| 215_07:58:00                           | 1 | RTOF | Flight sequence | ARNF004A      | 0  | 0 | 120   | 215_08:00:00 |
| 215_08:00:00                           | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 40 | 0 | 60    | 215_08:01:00 |
| 215_08:01:00                           | 0 | RTOF | Mode            | 51            | 5  | 0 | 3660  | 215_09:02:00 |
| 215_08:03:00                           | 0 | DFMS | Mode            | 1             | 0  | 0 | 120   | 215_08:05:00 |
| 215_08:05:00                           | 0 | DFMS | Mode            | 502           | 0  | 0 | 1620  | 215_08:32:00 |
| 215_08:32:00                           | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 215_09:03:40 |
| 215_09:02:00                           | 0 | RTOF | Mode            | 521           | 0  | 0 | 1130  | 215_09:20:50 |
| 215_09:03:40                           | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 215_09:35:20 |
| 215_09:35:20                           | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 215_10:20:20 |
| 215_10:20:20                           | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 215_10:41:40 |
| 215_10:21:00                           | 1 | RTOF | Mode            | 521           | 15 | 5 | 20460 | 215_16:02:00 |
| 215_10:41:40                           | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 215_11:13:20 |
| 215_11:13:20                           | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 215_11:34:40 |
| 215_11:34:40                           | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 215_12:06:20 |
| 215_12:06:20                           | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 215_12:38:00 |
| 215_12:38:00                           | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 215_13:23:00 |
| 215_13:23:00                           | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 215_13:44:20 |
| 215_13:44:20                           | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 215_14:16:00 |
| 215_14:16:00                           | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 215_14:37:20 |
| 215_14:37:20                           | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 215_15:09:00 |

|   |   |        |                 |          |   |   |      |              |
|---|---|--------|-----------------|----------|---|---|------|--------------|
| 215_15:09:00                                  | 0 | DFMS   | Mode            | 564      | 0 | 0 | 1900 | 215_15:40:40 |
| 215_15:40:40                                  | 0 | DFMS   | Mode            | 566      | 0 | 0 | 2700 | 215_16:25:40 |
| 215_16:02:00                                  | 0 | RTOF   | Mode            | 181      | 2 | 0 | 680  | 215_16:13:20 |
| 215_16:22:00                                  | 1 | RTOF   | Flight sequence | ARNS081A | 0 | 0 | 10   | 215_16:22:10 |
| 215_16:22:10                                  | 0 | RTOF   | Mode            | 1        | 0 | 0 | 240  | 215_16:26:10 |
| 215_16:25:40                                  | 0 | DFMS   | Mode            | 502      | 0 | 0 | 1280 | 215_16:47:00 |
| 215_16:26:10                                  | 0 | RTOF   | Flight sequence | ARNF014A | 0 | 0 | 120  | 215_16:28:10 |
| 215_16:47:00                                  | 0 | DFMS   | Mode            | 562      | 0 | 0 | 1900 | 215_17:18:40 |
| 215_17:18:40                                  | 0 | DFMS   | Mode            | 502      | 0 | 0 | 1280 | 215_17:40:00 |
| 215_17:40:00                                  | 0 | DFMS   | Mode            | 562      | 0 | 0 | 1900 | 215_18:11:40 |
| <b>MWNV</b> 02/08/2016 17:53 02/08/2016 19:03 |   |        |                 |          |   |   |      |              |
| 215_18:11:40                                  | 0 | DFMS   | Mode            | 564      | 0 | 0 | 1900 | 215_18:43:20 |
| 215_18:43:20                                  | 0 | DFMS   | Mode            | 566      | 0 | 0 | 2700 | 215_19:28:20 |
| 215_19:28:20                                  | 0 | DFMS   | Mode            | 502      | 0 | 0 | 1280 | 215_19:49:40 |
| 215_19:49:40                                  | 0 | DFMS   | Mode            | 562      | 0 | 0 | 1900 | 215_20:21:20 |
| 215_20:21:20                                  | 0 | DFMS   | Mode            | 502      | 0 | 0 | 1280 | 215_20:42:40 |
| 215_20:42:40                                  | 0 | DFMS   | Mode            | 562      | 0 | 0 | 1900 | 215_21:14:20 |
| 215_21:14:20                                  | 0 | DFMS   | Mode            | 564      | 0 | 0 | 1900 | 215_21:46:00 |
| 215_21:46:00                                  | 0 | DFMS   | Mode            | 566      | 0 | 0 | 2700 | 215_22:31:00 |
| 215_22:31:00                                  | 0 | DFMS   | Mode            | 502      | 0 | 1 | 2560 | 215_23:13:40 |
| 215_23:10:00                                  | 1 | COPS   | Flight sequence | ARNF016B | 0 | 0 | 60   | 215_23:11:00 |
| 215_23:20:29                                  | 1 | ROSINA | Flight sequence | ZRNP2002 | 0 | 0 | 120  | 215_23:22:29 |
| 215_23:22:29                                  | 0 | COPS   | Mode            | 0        | 0 | 0 | 150  | 215_23:24:59 |
| <b>MOCM</b> 02/08/2016 23:25 03/08/2016 05:55 |   |        |                 |          |   |   |      |              |

## STP120

| Start time                                    | Set Time | Instrument | Mode/Sequence   | Mode/Sequence number | Cycle number | Repetition | Duration [s] | Stop time    |
|---|----------|------------|-----------------|----------------------|--------------|------------|--------------|--------------|
| <b>MOCM</b> 02/08/2016 23:25 03/08/2016 05:55 |          |            |                 |                      |              |            |              |              |
| 216_05:55:00                                  | 1        | COPS       | Mode            | 396                  | 1            | 0          | 60           | 216_05:56:00 |
| 216_05:56:00                                  | 1        | DFMS       | Mode            | 502                  | 0            | 0          | 1620         | 216_06:23:00 |
| 216_06:23:00                                  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 216_06:54:40 |
| 216_06:25:00                                  | 1        | COPS       | Flight sequence | ARNF016A             | 0            | 0          | 60           | 216_06:26:00 |
| 216_06:54:40                                  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 216_07:16:00 |

|              |   |      |                 |                         |   |   |                         |              |
|--------------|---|------|-----------------|-------------------------|---|---|-------------------------|--------------|
| 216_07:16:00 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 216_07:47:40 |
| 216_07:47:40 | 0 | DFMS | Mode            | 564                     | 0 | 0 | 1900                    | 216_08:19:20 |
| 216_08:19:20 | 0 | DFMS | Mode            | 566                     | 0 | 0 | 2700                    | 216_09:04:20 |
| 216_09:04:20 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 216_09:25:40 |
| 216_09:25:40 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 216_09:57:20 |
|              |   |      | <b>MWNV</b>     | <b>03/08/2016 09:37</b> |   |   | <b>03/08/2016 10:47</b> |              |
| 216_09:57:20 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 216_10:18:40 |
| 216_10:18:40 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 216_10:50:20 |
| 216_10:50:20 | 0 | DFMS | Mode            | 564                     | 0 | 0 | 1900                    | 216_11:22:00 |
| 216_11:22:00 | 0 | DFMS | Mode            | 566                     | 0 | 0 | 2700                    | 216_12:07:00 |
| 216_12:07:00 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 216_12:28:20 |
| 216_12:28:20 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 216_13:00:00 |
| 216_13:00:00 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 216_13:21:20 |
| 216_13:21:20 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 216_13:53:00 |
| 216_13:53:00 | 0 | DFMS | Mode            | 564                     | 0 | 0 | 1900                    | 216_14:24:40 |
| 216_14:24:40 | 0 | DFMS | Mode            | 566                     | 0 | 0 | 2700                    | 216_15:09:40 |
| 216_15:09:40 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 216_15:31:00 |
| 216_15:31:00 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 216_16:02:40 |
| 216_16:02:40 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 216_16:24:00 |
| 216_16:24:00 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 216_16:55:40 |
| 216_16:55:40 | 0 | DFMS | Mode            | 564                     | 0 | 0 | 1900                    | 216_17:27:20 |
| 216_17:27:20 | 0 | DFMS | Mode            | 566                     | 0 | 0 | 2700                    | 216_18:12:20 |
| 216_18:12:20 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 216_18:33:40 |
| 216_18:33:40 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 216_19:05:20 |
| 216_19:05:20 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 216_19:26:40 |
| 216_19:26:40 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 216_19:58:20 |
|              |   |      | <b>MWNV</b>     | <b>03/08/2016 19:50</b> |   |   | <b>03/08/2016 21:00</b> |              |
| 216_20:01:05 | 1 | DFMS | Flight sequence | ARNS081B                | 0 | 0 | 10                      | 216_20:01:15 |
| 216_20:01:15 | 0 | DFMS | Mode            | 1                       | 0 | 0 | 120                     | 216_20:03:15 |
| 216_20:03:15 | 0 | DFMS | Mode            | 564                     | 0 | 0 | 2450                    | 216_20:44:05 |
| 216_20:44:05 | 0 | DFMS | Mode            | 566                     | 0 | 0 | 2700                    | 216_21:29:05 |
| 216_21:29:05 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 216_21:50:25 |
| 216_21:50:25 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 216_22:22:05 |
| 216_22:22:05 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 216_22:43:25 |
| 216_22:43:25 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 216_23:15:05 |

|              |   |      |                 |                  |   |   |                  |              |
|--------------|---|------|-----------------|------------------|---|---|------------------|--------------|
| 216_23:15:05 | 0 | DFMS | Mode            | 564              | 0 | 0 | 1900             | 216_23:46:45 |
| 216_23:46:45 | 0 | DFMS | Mode            | 566              | 0 | 0 | 2700             | 217_00:31:45 |
| 217_00:31:45 | 0 | DFMS | Mode            | 502              | 0 | 0 | 1280             | 217_00:53:05 |
| 217_00:53:05 | 0 | DFMS | Mode            | 562              | 0 | 0 | 1900             | 217_01:24:45 |
| 217_01:24:45 | 0 | DFMS | Mode            | 502              | 0 | 0 | 1280             | 217_01:46:05 |
| 217_01:46:05 | 0 | DFMS | Mode            | 562              | 0 | 0 | 1900             | 217_02:17:45 |
| 217_02:17:45 | 0 | DFMS | Mode            | 564              | 0 | 0 | 1900             | 217_02:49:25 |
| 217_02:49:25 | 0 | DFMS | Mode            | 566              | 0 | 0 | 2700             | 217_03:34:25 |
| 217_03:34:25 | 0 | DFMS | Mode            | 502              | 0 | 0 | 1280             | 217_03:55:45 |
| 217_03:55:45 | 0 | DFMS | Mode            | 562              | 0 | 0 | 1900             | 217_04:27:25 |
| 217_04:27:25 | 0 | DFMS | Mode            | 502              | 0 | 0 | 1280             | 217_04:48:45 |
| 217_04:48:45 | 0 | DFMS | Mode            | 562              | 0 | 0 | 1900             | 217_05:20:25 |
| 217_05:20:25 | 0 | DFMS | Mode            | 564              | 0 | 0 | 1900             | 217_05:52:05 |
| 217_05:52:05 | 0 | DFMS | Mode            | 566              | 0 | 0 | 2700             | 217_06:37:05 |
|              |   | MWNV |                 | 04/08/2016 06:03 |   |   | 04/08/2016 07:13 |              |
| 217_06:39:50 | 1 | DFMS | Flight sequence | ARNS081B         | 0 | 0 | 10               | 217_06:40:00 |
| 217_06:40:00 | 0 | DFMS | Mode            | 1                | 0 | 0 | 120              | 217_06:42:00 |
| 217_06:42:00 | 0 | DFMS | Mode            | 502              | 0 | 0 | 1620             | 217_07:09:00 |
| 217_07:09:00 | 0 | DFMS | Mode            | 562              | 0 | 0 | 1900             | 217_07:40:40 |
| 217_07:40:40 | 0 | DFMS | Mode            | 502              | 0 | 0 | 1280             | 217_08:02:00 |
| 217_08:02:00 | 0 | DFMS | Mode            | 562              | 0 | 0 | 1900             | 217_08:33:40 |
| 217_08:33:40 | 0 | DFMS | Mode            | 564              | 0 | 0 | 1900             | 217_09:05:20 |
| 217_09:05:20 | 0 | DFMS | Mode            | 566              | 0 | 0 | 2700             | 217_09:50:20 |
| 217_09:50:20 | 0 | DFMS | Mode            | 502              | 0 | 0 | 1280             | 217_10:11:40 |
| 217_10:11:40 | 0 | DFMS | Mode            | 562              | 0 | 0 | 1900             | 217_10:43:20 |
| 217_10:43:20 | 0 | DFMS | Mode            | 502              | 0 | 0 | 1280             | 217_11:04:40 |
| 217_11:04:40 | 0 | DFMS | Mode            | 562              | 0 | 0 | 1900             | 217_11:36:20 |
| 217_11:36:20 | 0 | DFMS | Mode            | 564              | 0 | 0 | 1900             | 217_12:08:00 |
| 217_12:08:00 | 0 | DFMS | Mode            | 566              | 0 | 0 | 2700             | 217_12:53:00 |
| 217_12:53:00 | 0 | DFMS | Mode            | 502              | 0 | 0 | 1280             | 217_13:14:20 |
| 217_13:14:20 | 0 | DFMS | Mode            | 562              | 0 | 0 | 1900             | 217_13:46:00 |
| 217_13:46:00 | 0 | DFMS | Mode            | 502              | 0 | 0 | 1280             | 217_14:07:20 |
| 217_14:07:20 | 0 | DFMS | Mode            | 562              | 0 | 0 | 1900             | 217_14:39:00 |
| 217_14:39:00 | 0 | DFMS | Mode            | 564              | 0 | 0 | 1900             | 217_15:10:40 |
| 217_15:10:40 | 0 | DFMS | Mode            | 566              | 0 | 0 | 2700             | 217_15:55:40 |

|              |   |      |                 |                         |   |   |                         |              |
|--------------|---|------|-----------------|-------------------------|---|---|-------------------------|--------------|
| 217_15:55:40 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 217_16:17:00 |
|              |   |      | <b>MWNV</b>     | <b>04/08/2016 16:16</b> |   |   | <b>04/08/2016 17:26</b> |              |
| 217_16:17:00 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 217_16:48:40 |
| 217_16:50:25 | 1 | DFMS | Flight sequence | ARNS081B                | 0 | 0 | 10                      | 217_16:50:35 |
| 217_16:50:35 | 0 | DFMS | Mode            | 1                       | 0 | 0 | 120                     | 217_16:52:35 |
| 217_16:52:35 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1620                    | 217_17:19:35 |
| 217_17:19:35 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 217_17:51:15 |
| 217_17:51:15 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 217_18:12:35 |
| 217_18:12:35 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 217_18:44:15 |
| 217_18:44:15 | 0 | DFMS | Mode            | 564                     | 0 | 0 | 1900                    | 217_19:15:55 |
| 217_19:15:55 | 0 | DFMS | Mode            | 566                     | 0 | 0 | 2700                    | 217_20:00:55 |
| 217_20:00:55 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 217_20:22:15 |
| 217_20:22:15 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 217_20:53:55 |
| 217_20:53:55 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 217_21:15:15 |
| 217_21:15:15 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 217_21:46:55 |
| 217_21:46:55 | 0 | DFMS | Mode            | 564                     | 0 | 0 | 1900                    | 217_22:18:35 |
| 217_22:18:35 | 0 | DFMS | Mode            | 566                     | 0 | 0 | 2700                    | 217_23:03:35 |
| 217_23:03:35 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 217_23:24:55 |
| 217_23:24:55 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 217_23:56:35 |
| 217_23:56:35 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 218_00:17:55 |
| 218_00:17:55 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 218_00:49:35 |
| 218_00:49:35 | 0 | DFMS | Mode            | 564                     | 0 | 0 | 1900                    | 218_01:21:15 |
| 218_01:21:15 | 0 | DFMS | Mode            | 566                     | 0 | 0 | 2700                    | 218_02:06:15 |
| 218_02:06:15 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 218_02:27:35 |
| 218_02:27:35 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 218_02:59:15 |
|              |   |      | <b>MWNV</b>     | <b>05/08/2016 02:29</b> |   |   | <b>05/08/2016 03:39</b> |              |
| 218_03:03:00 | 1 | DFMS | Flight sequence | ARNS081B                | 0 | 0 | 10                      | 218_03:03:10 |
| 218_03:03:10 | 0 | DFMS | Mode            | 1                       | 0 | 0 | 120                     | 218_03:05:10 |
| 218_03:05:10 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1620                    | 218_03:32:10 |
| 218_03:32:10 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 218_04:03:50 |
| 218_04:03:50 | 0 | DFMS | Mode            | 564                     | 0 | 0 | 1900                    | 218_04:35:30 |
| 218_04:35:30 | 0 | DFMS | Mode            | 566                     | 0 | 0 | 2700                    | 218_05:20:30 |
| 218_05:20:30 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 218_05:41:50 |
| 218_05:41:50 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 218_06:13:30 |
| 218_06:13:30 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 218_06:34:50 |



|              |   |      |                 |                  |                  |   |      |              |
|--------------|---|------|-----------------|------------------|------------------|---|------|--------------|
| 218_06:34:50 | 0 | DFMS | Mode            | 562              | 0                | 0 | 1900 | 218_07:06:30 |
| 218_07:06:30 | 0 | DFMS | Mode            | 564              | 0                | 0 | 1900 | 218_07:38:10 |
| 218_07:38:10 | 0 | DFMS | Mode            | 566              | 0                | 0 | 2700 | 218_08:23:10 |
| 218_08:23:10 | 0 | DFMS | Mode            | 502              | 0                | 0 | 1280 | 218_08:44:30 |
| 218_08:44:30 | 0 | DFMS | Mode            | 562              | 0                | 0 | 1900 | 218_09:16:10 |
| 218_09:16:10 | 0 | DFMS | Mode            | 502              | 0                | 0 | 1280 | 218_09:37:30 |
| 218_09:37:30 | 0 | DFMS | Mode            | 562              | 0                | 0 | 1900 | 218_10:09:10 |
| 218_10:09:10 | 0 | DFMS | Mode            | 564              | 0                | 0 | 1900 | 218_10:40:50 |
| 218_10:40:50 | 0 | DFMS | Mode            | 566              | 0                | 0 | 2700 | 218_11:25:50 |
| 218_11:25:50 | 0 | DFMS | Mode            | 502              | 0                | 0 | 1280 | 218_11:47:10 |
| 218_11:47:10 | 0 | DFMS | Mode            | 562              | 0                | 0 | 1900 | 218_12:18:50 |
| 218_12:18:50 | 0 | DFMS | Mode            | 502              | 0                | 0 | 1280 | 218_12:40:10 |
| 218_12:40:10 | 0 | DFMS | Mode            | 562              | 0                | 0 | 1900 | 218_13:11:50 |
| MWNV         |   |      |                 | 05/08/2016 12:42 | 05/08/2016 13:52 |   |      |              |
| 218_13:14:35 | 1 | DFMS | Flight sequence | ARNS081B         | 0                | 0 | 10   | 218_13:14:45 |
| 218_13:14:45 | 0 | DFMS | Mode            | 1                | 0                | 0 | 120  | 218_13:16:45 |
| 218_13:16:45 | 0 | DFMS | Mode            | 502              | 0                | 0 | 1620 | 218_13:43:45 |
| 218_13:43:45 | 0 | DFMS | Mode            | 562              | 0                | 0 | 1900 | 218_14:15:25 |
| 218_14:15:25 | 0 | DFMS | Mode            | 564              | 0                | 0 | 1900 | 218_14:47:05 |
| 218_14:47:05 | 0 | DFMS | Mode            | 566              | 0                | 0 | 2700 | 218_15:32:05 |
| 218_15:32:05 | 0 | DFMS | Mode            | 502              | 0                | 0 | 1280 | 218_15:53:25 |
| 218_15:53:25 | 0 | DFMS | Mode            | 562              | 0                | 0 | 1900 | 218_16:25:05 |
| 218_16:25:05 | 0 | DFMS | Mode            | 502              | 0                | 0 | 1280 | 218_16:46:25 |
| 218_16:46:25 | 0 | DFMS | Mode            | 562              | 0                | 0 | 1900 | 218_17:18:05 |
| 218_17:18:05 | 0 | DFMS | Mode            | 564              | 0                | 0 | 1900 | 218_17:49:45 |
| 218_17:49:45 | 0 | DFMS | Mode            | 566              | 0                | 0 | 2700 | 218_18:34:45 |
| 218_18:34:45 | 0 | DFMS | Mode            | 502              | 0                | 0 | 1280 | 218_18:56:05 |
| 218_18:56:05 | 0 | DFMS | Mode            | 562              | 0                | 0 | 1900 | 218_19:27:45 |
| 218_19:27:45 | 0 | DFMS | Mode            | 502              | 0                | 0 | 1280 | 218_19:49:05 |
| 218_19:49:05 | 0 | DFMS | Mode            | 562              | 0                | 0 | 1900 | 218_20:20:45 |
| 218_20:20:45 | 0 | DFMS | Mode            | 564              | 0                | 0 | 1900 | 218_20:52:25 |
| 218_20:52:25 | 0 | DFMS | Mode            | 566              | 0                | 0 | 2700 | 218_21:37:25 |
| 218_21:37:25 | 0 | DFMS | Mode            | 502              | 0                | 0 | 1280 | 218_21:58:45 |
| 218_21:58:45 | 0 | DFMS | Mode            | 562              | 0                | 0 | 1900 | 218_22:30:25 |
| 218_22:30:25 | 0 | DFMS | Mode            | 502              | 0                | 0 | 1280 | 218_22:51:45 |

|              |   |      |                 |                         |    |   |                         |              |
|--------------|---|------|-----------------|-------------------------|----|---|-------------------------|--------------|
| 218_22:51:45 | 0 | DFMS | Mode            | 562                     | 0  | 0 | 1900                    | 218_23:23:25 |
|              |   |      | <b>MWOL</b>     | <b>05/08/2016 23:25</b> |    |   | <b>06/08/2016 01:35</b> |              |
| 218_23:23:25 | 0 | DFMS | Mode            | 502                     | 0  | 0 | 1280                    | 218_23:44:45 |
| 218_23:44:45 | 0 | DFMS | Flight sequence | ARNS081B                | 0  | 0 | 10                      | 218_23:44:55 |
| 218_23:44:55 | 0 | DFMS | Mode            | 1                       | 0  | 0 | 120                     | 218_23:46:55 |
| 218_23:46:55 | 0 | DFMS | Mode            | 502                     | 0  | 0 | 1620                    | 219_00:13:55 |
| 219_00:13:55 | 0 | DFMS | Mode            | 562                     | 0  | 0 | 1900                    | 219_00:45:35 |
| 219_00:45:35 | 0 | DFMS | Mode            | 564                     | 0  | 0 | 1900                    | 219_01:17:15 |
| 219_01:09:09 | 1 | RTOF | Flight sequence | ARNF004A                | 0  | 0 | 120                     | 219_01:11:09 |
| 219_01:11:09 | 0 | RTOF | Flight sequence | ARNS041A_RTOF           | 40 | 0 | 60                      | 219_01:12:09 |
| 219_01:12:09 | 0 | RTOF | Mode            | 51                      | 5  | 0 | 3660                    | 219_02:13:09 |
| 219_01:17:15 | 0 | DFMS | Mode            | 566                     | 0  | 0 | 2700                    | 219_02:02:15 |
| 219_02:02:15 | 0 | DFMS | Mode            | 502                     | 0  | 0 | 1280                    | 219_02:23:35 |
| 219_02:13:09 | 0 | RTOF | Mode            | 521                     | 0  | 0 | 1130                    | 219_02:31:59 |
| 219_02:23:35 | 0 | DFMS | Mode            | 562                     | 0  | 0 | 1900                    | 219_02:55:15 |
| 219_02:55:15 | 0 | DFMS | Mode            | 502                     | 0  | 0 | 1280                    | 219_03:16:35 |
| 219_03:16:35 | 0 | DFMS | Mode            | 562                     | 0  | 0 | 1900                    | 219_03:48:15 |
| 219_03:32:09 | 1 | RTOF | Mode            | 521                     | 15 | 5 | 20460                   | 219_09:13:09 |
| 219_03:48:15 | 0 | DFMS | Mode            | 564                     | 0  | 0 | 1900                    | 219_04:19:55 |
| 219_04:19:55 | 0 | DFMS | Mode            | 566                     | 0  | 0 | 2700                    | 219_05:04:55 |
| 219_05:04:55 | 0 | DFMS | Mode            | 502                     | 0  | 0 | 1280                    | 219_05:26:15 |
| 219_05:26:15 | 0 | DFMS | Mode            | 562                     | 0  | 0 | 1900                    | 219_05:57:55 |
| 219_05:57:55 | 0 | DFMS | Mode            | 502                     | 0  | 0 | 1280                    | 219_06:19:15 |
| 219_06:19:15 | 0 | DFMS | Mode            | 562                     | 0  | 0 | 1900                    | 219_06:50:55 |
| 219_06:50:55 | 0 | DFMS | Mode            | 564                     | 0  | 0 | 1900                    | 219_07:22:35 |
| 219_07:22:35 | 0 | DFMS | Mode            | 566                     | 0  | 0 | 2700                    | 219_08:07:35 |
| 219_08:07:35 | 0 | DFMS | Mode            | 502                     | 0  | 0 | 1280                    | 219_08:28:55 |
| 219_08:28:55 | 0 | DFMS | Mode            | 562                     | 0  | 0 | 1900                    | 219_09:00:35 |
| 219_09:00:35 | 0 | DFMS | Mode            | 502                     | 0  | 0 | 1280                    | 219_09:21:55 |
| 219_09:21:55 | 0 | DFMS | Mode            | 562                     | 0  | 0 | 1900                    | 219_09:53:35 |
|              |   |      | <b>MWNV</b>     | <b>06/08/2016 09:28</b> |    |   | <b>06/08/2016 10:38</b> |              |
| 219_09:28:09 | 1 | RTOF | Flight sequence | ARNS081A                | 0  | 0 | 10                      | 219_09:28:19 |
| 219_09:28:19 | 0 | RTOF | Mode            | 1                       | 0  | 0 | 240                     | 219_09:32:19 |
| 219_09:32:19 | 0 | RTOF | Flight sequence | ARNF014A                | 0  | 0 | 120                     | 219_09:34:19 |
| 219_10:03:05 | 1 | DFMS | Flight sequence | ARNS081B                | 0  | 0 | 10                      | 219_10:03:15 |

|              |   |        |                 |             |                         |                         |      |              |
|--------------|---|--------|-----------------|-------------|-------------------------|-------------------------|------|--------------|
| 219_10:03:15 | 0 | DFMS   | Mode            | 1           | 0                       | 0                       | 120  | 219_10:05:15 |
| 219_10:05:15 | 0 | DFMS   | Mode            | 502         | 0                       | 0                       | 1620 | 219_10:32:15 |
| 219_10:32:15 | 0 | DFMS   | Mode            | 562         | 0                       | 0                       | 1900 | 219_11:03:55 |
| 219_11:03:55 | 0 | DFMS   | Mode            | 564         | 0                       | 0                       | 1900 | 219_11:35:35 |
| 219_11:35:35 | 0 | DFMS   | Mode            | 566         | 0                       | 0                       | 2700 | 219_12:20:35 |
| 219_12:20:35 | 0 | DFMS   | Mode            | 502         | 0                       | 0                       | 1280 | 219_12:41:55 |
| 219_12:41:55 | 0 | DFMS   | Mode            | 562         | 0                       | 0                       | 1900 | 219_13:13:35 |
| 219_13:13:35 | 0 | DFMS   | Mode            | 502         | 0                       | 0                       | 1280 | 219_13:34:55 |
| 219_13:34:55 | 0 | DFMS   | Mode            | 562         | 0                       | 0                       | 1900 | 219_14:06:35 |
| 219_14:06:35 | 0 | DFMS   | Mode            | 564         | 0                       | 0                       | 1900 | 219_14:38:15 |
| 219_14:38:15 | 0 | DFMS   | Mode            | 566         | 0                       | 0                       | 2700 | 219_15:23:15 |
| 219_15:23:15 | 0 | DFMS   | Mode            | 502         | 0                       | 0                       | 1280 | 219_15:44:35 |
| 219_15:44:35 | 0 | DFMS   | Mode            | 562         | 0                       | 0                       | 1900 | 219_16:16:15 |
| 219_16:16:15 | 0 | DFMS   | Mode            | 502         | 0                       | 0                       | 1280 | 219_16:37:35 |
| 219_16:37:35 | 0 | DFMS   | Mode            | 562         | 0                       | 0                       | 1900 | 219_17:09:15 |
| 219_17:09:15 | 0 | DFMS   | Mode            | 564         | 0                       | 0                       | 1900 | 219_17:40:55 |
| 219_17:40:55 | 0 | DFMS   | Mode            | 566         | 0                       | 0                       | 2700 | 219_18:25:55 |
| 219_18:25:55 | 0 | DFMS   | Mode            | 502         | 0                       | 0                       | 1280 | 219_18:47:15 |
| 219_18:47:15 | 0 | DFMS   | Mode            | 562         | 0                       | 0                       | 1900 | 219_19:18:55 |
| 219_19:18:55 | 0 | DFMS   | Mode            | 502         | 0                       | 0                       | 1280 | 219_19:40:15 |
|              |   |        |                 | <b>MWNV</b> | <b>06/08/2016 19:31</b> | <b>06/08/2016 20:41</b> |      |              |
| 219_19:40:15 | 0 | DFMS   | Mode            | 562         | 0                       | 0                       | 1900 | 219_20:11:55 |
| 219_20:11:55 | 0 | DFMS   | Mode            | 564         | 0                       | 0                       | 1900 | 219_20:43:35 |
| 219_20:43:35 | 0 | DFMS   | Mode            | 566         | 0                       | 0                       | 2700 | 219_21:28:35 |
| 219_21:28:35 | 0 | DFMS   | Mode            | 502         | 0                       | 0                       | 1280 | 219_21:49:55 |
| 219_21:49:55 | 0 | DFMS   | Mode            | 562         | 0                       | 0                       | 1900 | 219_22:21:35 |
| 219_22:21:35 | 0 | DFMS   | Mode            | 502         | 0                       | 0                       | 1280 | 219_22:42:55 |
| 219_22:42:55 | 0 | DFMS   | Mode            | 562         | 0                       | 0                       | 1900 | 219_23:14:35 |
| 219_23:10:00 | 1 | COPS   | Flight sequence | ARNF016B    | 0                       | 0                       | 60   | 219_23:11:00 |
| 219_23:20:29 | 1 | ROSINA | Flight sequence | ZRNP2002    | 0                       | 0                       | 120  | 219_23:22:29 |
| 219_23:22:29 | 0 | COPS   | Mode            | 0           | 0                       | 0                       | 150  | 219_23:24:59 |
|              |   |        |                 | <b>MOCM</b> | <b>06/08/2016 23:25</b> | <b>07/08/2016 05:55</b> |      |              |
| 220_05:55:00 | 1 | COPS   | Mode            | 396         | 1                       | 0                       | 60   | 220_05:56:00 |
| 220_05:56:00 | 1 | DFMS   | Mode            | 502         | 0                       | 0                       | 1620 | 220_06:23:00 |
| 220_06:25:00 | 1 | COPS   | Flight sequence | ARNF016A    | 0                       | 0                       | 60   | 220_06:26:00 |

|              |   |      |                 |                  |   |                  |      |              |
|--------------|---|------|-----------------|------------------|---|------------------|------|--------------|
| 220_06:26:00 | 0 | DFMS | Mode            | 562              | 0 | 0                | 1900 | 220_06:57:40 |
| 220_06:57:40 | 0 | DFMS | Mode            | 502              | 0 | 0                | 1280 | 220_07:19:00 |
| 220_07:19:00 | 0 | DFMS | Mode            | 562              | 0 | 0                | 1900 | 220_07:50:40 |
| 220_07:50:40 | 0 | DFMS | Mode            | 564              | 0 | 0                | 1900 | 220_08:22:20 |
| 220_08:22:20 | 0 | DFMS | Mode            | 566              | 0 | 0                | 2700 | 220_09:07:20 |
| 220_09:07:20 | 0 | DFMS | Mode            | 502              | 0 | 0                | 1280 | 220_09:28:40 |
| 220_09:28:40 | 0 | DFMS | Mode            | 562              | 0 | 0                | 1900 | 220_10:00:20 |
| 220_10:00:20 | 0 | DFMS | Mode            | 502              | 0 | 0                | 1280 | 220_10:21:40 |
| 220_10:21:40 | 0 | DFMS | Mode            | 562              | 0 | 0                | 1900 | 220_10:53:20 |
| 220_10:53:20 | 0 | DFMS | Mode            | 564              | 0 | 0                | 1900 | 220_11:25:00 |
| 220_11:25:00 | 0 | DFMS | Mode            | 566              | 0 | 0                | 2700 | 220_12:10:00 |
| 220_12:10:00 | 0 | DFMS | Mode            | 502              | 0 | 0                | 1280 | 220_12:31:20 |
| 220_12:31:20 | 0 | DFMS | Mode            | 562              | 0 | 0                | 1900 | 220_13:03:00 |
| 220_13:03:00 | 0 | DFMS | Mode            | 502              | 0 | 0                | 1280 | 220_13:24:20 |
| 220_13:24:20 | 0 | DFMS | Mode            | 562              | 0 | 0                | 1900 | 220_13:56:00 |
| 220_13:56:00 | 0 | DFMS | Mode            | 564              | 0 | 0                | 1900 | 220_14:27:40 |
| 220_14:27:40 | 0 | DFMS | Mode            | 566              | 0 | 0                | 2700 | 220_15:12:40 |
| 220_15:12:40 | 0 | DFMS | Mode            | 502              | 0 | 0                | 1280 | 220_15:34:00 |
| 220_15:34:00 | 0 | DFMS | Mode            | 562              | 0 | 0                | 1900 | 220_16:05:40 |
| MWNV         |   |      |                 | 07/08/2016 15:37 |   | 07/08/2016 16:47 |      |              |
| 220_16:05:40 | 0 | DFMS | Flight sequence | ARNS081B         | 0 | 0                | 10   | 220_16:05:50 |
| 220_16:05:50 | 0 | DFMS | Mode            | 1                | 0 | 0                | 120  | 220_16:07:50 |
| 220_16:07:50 | 0 | DFMS | Mode            | 502              | 0 | 0                | 1620 | 220_16:34:50 |
| 220_16:34:50 | 0 | DFMS | Mode            | 562              | 0 | 0                | 1900 | 220_17:06:30 |
| 220_17:06:30 | 0 | DFMS | Mode            | 502              | 0 | 0                | 1280 | 220_17:27:50 |
| 220_17:27:50 | 0 | DFMS | Mode            | 562              | 0 | 0                | 1900 | 220_17:59:30 |
| 220_17:59:30 | 0 | DFMS | Mode            | 564              | 0 | 0                | 1900 | 220_18:31:10 |
| 220_18:31:10 | 0 | DFMS | Mode            | 566              | 0 | 0                | 2700 | 220_19:16:10 |
| 220_19:16:10 | 0 | DFMS | Mode            | 502              | 0 | 0                | 1280 | 220_19:37:30 |
| 220_19:37:30 | 0 | DFMS | Mode            | 562              | 0 | 0                | 1900 | 220_20:09:10 |
| 220_20:09:10 | 0 | DFMS | Mode            | 502              | 0 | 0                | 1280 | 220_20:30:30 |
| 220_20:30:30 | 0 | DFMS | Mode            | 562              | 0 | 0                | 1900 | 220_21:02:10 |
| 220_21:02:10 | 0 | DFMS | Mode            | 564              | 0 | 0                | 1900 | 220_21:33:50 |
| 220_21:33:50 | 0 | DFMS | Mode            | 566              | 0 | 0                | 2700 | 220_22:18:50 |
| 220_22:18:50 | 0 | DFMS | Mode            | 502              | 0 | 0                | 1280 | 220_22:40:10 |

|              |   |      |                 |                         |   |   |                         |              |
|--------------|---|------|-----------------|-------------------------|---|---|-------------------------|--------------|
| 220_22:40:10 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 220_23:11:50 |
| 220_23:11:50 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 220_23:33:10 |
| 220_23:33:10 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 221_00:04:50 |
| 221_00:04:50 | 0 | DFMS | Mode            | 564                     | 0 | 0 | 1900                    | 221_00:36:30 |
| 221_00:36:30 | 0 | DFMS | Mode            | 566                     | 0 | 0 | 2700                    | 221_01:21:30 |
| 221_01:21:30 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 221_01:42:50 |
|              |   |      | <b>MWNV</b>     | <b>08/08/2016 01:40</b> |   |   | <b>08/08/2016 02:50</b> |              |
| 221_01:42:50 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 221_02:14:30 |
| 221_02:14:30 | 0 | DFMS | Flight sequence | ARNS081B                | 0 | 0 | 10                      | 221_02:14:40 |
| 221_02:14:40 | 0 | DFMS | Mode            | 1                       | 0 | 0 | 120                     | 221_02:16:40 |
| 221_02:16:40 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1620                    | 221_02:43:40 |
| 221_02:43:40 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 221_03:15:20 |
| 221_03:15:20 | 0 | DFMS | Mode            | 564                     | 0 | 0 | 1900                    | 221_03:47:00 |
| 221_03:47:00 | 0 | DFMS | Mode            | 566                     | 0 | 0 | 2700                    | 221_04:32:00 |
| 221_04:32:00 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 221_04:53:20 |
| 221_04:53:20 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 221_05:25:00 |
| 221_05:25:00 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 221_05:46:20 |
| 221_05:46:20 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 221_06:18:00 |
| 221_06:18:00 | 0 | DFMS | Mode            | 564                     | 0 | 0 | 1900                    | 221_06:49:40 |
| 221_06:49:40 | 0 | DFMS | Mode            | 566                     | 0 | 0 | 2700                    | 221_07:34:40 |
| 221_07:34:40 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 221_07:56:00 |
| 221_07:56:00 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 221_08:27:40 |
| 221_08:27:40 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 221_08:49:00 |
| 221_08:49:00 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 221_09:20:40 |
| 221_09:20:40 | 0 | DFMS | Mode            | 564                     | 0 | 0 | 1900                    | 221_09:52:20 |
| 221_09:52:20 | 0 | DFMS | Mode            | 566                     | 0 | 0 | 2700                    | 221_10:37:20 |
| 221_10:37:20 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 221_10:58:40 |
| 221_10:58:40 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 221_11:30:20 |
| 221_11:30:20 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1280                    | 221_11:51:40 |
|              |   |      | <b>MWNV</b>     | <b>08/08/2016 11:43</b> |   |   | <b>08/08/2016 12:53</b> |              |
| 221_11:51:40 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 221_12:23:20 |
| 221_12:23:20 | 1 | DFMS | Flight sequence | ARNS081B                | 0 | 0 | 10                      | 221_12:33:30 |
| 221_12:33:30 | 0 | DFMS | Mode            | 1                       | 0 | 0 | 120                     | 221_12:35:30 |
| 221_12:35:30 | 0 | DFMS | Mode            | 502                     | 0 | 0 | 1620                    | 221_13:02:30 |
| 221_13:02:30 | 0 | DFMS | Mode            | 562                     | 0 | 0 | 1900                    | 221_13:34:10 |

|              |   |      |      |     |   |   |      |              |
|--------------|---|------|------|-----|---|---|------|--------------|
| 221_13:34:10 | 0 | DFMS | Mode | 564 | 0 | 0 | 1900 | 221_14:05:50 |
| 221_14:05:50 | 0 | DFMS | Mode | 566 | 0 | 0 | 2700 | 221_14:50:50 |
| 221_14:50:50 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 221_15:12:10 |
| 221_15:12:10 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 221_15:43:50 |
| 221_15:43:50 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 221_16:05:10 |
| 221_16:05:10 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 221_16:36:50 |
| 221_16:36:50 | 0 | DFMS | Mode | 564 | 0 | 0 | 1900 | 221_17:08:30 |
| 221_17:08:30 | 0 | DFMS | Mode | 566 | 0 | 0 | 2700 | 221_17:53:30 |
| 221_17:53:30 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 221_18:14:50 |
| 221_18:14:50 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 221_18:46:30 |
| 221_18:46:30 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 221_19:07:50 |
| 221_19:07:50 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 221_19:39:30 |
| 221_19:39:30 | 0 | DFMS | Mode | 564 | 0 | 0 | 1900 | 221_20:11:10 |
| 221_20:11:10 | 0 | DFMS | Mode | 566 | 0 | 0 | 2700 | 221_20:56:10 |
| 221_20:56:10 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 221_21:17:30 |
| 221_21:17:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 221_21:49:10 |

|             |  |  |  |                         |                         |  |  |  |
|-------------|--|--|--|-------------------------|-------------------------|--|--|--|
| <b>MWNV</b> |  |  |  | <b>08/08/2016 21:47</b> | <b>08/08/2016 22:57</b> |  |  |  |
|-------------|--|--|--|-------------------------|-------------------------|--|--|--|

|              |   |      |                 |          |   |   |      |              |
|--------------|---|------|-----------------|----------|---|---|------|--------------|
| 221_21:49:10 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 221_22:10:30 |
| 221_22:10:30 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 221_22:42:10 |
| 221_22:47:10 | 1 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 221_22:47:20 |
| 221_22:47:20 | 0 | DFMS | Mode            | 1        | 0 | 0 | 120  | 221_22:49:20 |
| 221_22:49:20 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1620 | 221_23:16:20 |
| 221_23:16:20 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 221_23:48:00 |
| 221_23:48:00 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 222_00:19:40 |
| 222_00:19:40 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 222_01:04:40 |
| 222_01:04:40 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 222_01:26:00 |
| 222_01:26:00 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 222_01:57:40 |
| 222_01:57:40 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 222_02:19:00 |
| 222_02:19:00 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 222_02:50:40 |
| 222_02:50:40 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 222_03:22:20 |
| 222_03:22:20 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 222_04:07:20 |
| 222_04:07:20 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 222_04:28:40 |
| 222_04:28:40 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 222_05:00:20 |
| 222_05:00:20 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 222_05:21:40 |
| 222_05:21:40 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 222_05:53:20 |

|              |   |      |                 |               |                  |   |                  |              |
|--------------|---|------|-----------------|---------------|------------------|---|------------------|--------------|
| 222_05:53:20 | 0 | DFMS | Mode            | 564           | 0                | 0 | 1900             | 222_06:25:00 |
| 222_06:25:00 | 0 | DFMS | Mode            | 566           | 0                | 0 | 2700             | 222_07:10:00 |
| 222_07:10:00 | 0 | DFMS | Mode            | 502           | 0                | 0 | 1280             | 222_07:31:20 |
| 222_07:31:20 | 0 | DFMS | Mode            | 562           | 0                | 0 | 1900             | 222_08:03:00 |
|              |   |      | MWNV            |               | 09/08/2016 07:50 |   | 09/08/2016 09:00 |              |
| 222_08:03:00 | 0 | DFMS | Mode            | 1             | 0                | 0 | 120              | 222_08:05:00 |
| 222_08:05:00 | 0 | DFMS | Mode            | 502           | 0                | 0 | 1620             | 222_08:32:00 |
| 222_08:32:00 | 0 | DFMS | Mode            | 562           | 0                | 0 | 1900             | 222_09:03:40 |
| 222_09:03:40 | 0 | DFMS | Mode            | 564           | 0                | 0 | 1900             | 222_09:35:20 |
| 222_09:20:00 | 1 | RTOF | Flight sequence | ARNF004A      | 0                | 0 | 120              | 222_09:22:00 |
| 222_09:22:00 | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 40               | 0 | 60               | 222_09:23:00 |
| 222_09:23:00 | 0 | RTOF | Mode            | 51            | 5                | 0 | 3660             | 222_10:24:00 |
| 222_09:35:20 | 0 | DFMS | Mode            | 566           | 0                | 0 | 2700             | 222_10:20:20 |
| 222_10:20:20 | 0 | DFMS | Mode            | 502           | 0                | 0 | 1280             | 222_10:41:40 |
| 222_10:24:00 | 0 | RTOF | Mode            | 521           | 0                | 0 | 1130             | 222_10:42:50 |
| 222_10:41:40 | 0 | DFMS | Mode            | 562           | 0                | 0 | 1900             | 222_11:13:20 |
| 222_11:13:20 | 0 | DFMS | Mode            | 502           | 0                | 0 | 1280             | 222_11:34:40 |
| 222_11:34:40 | 0 | DFMS | Mode            | 562           | 0                | 0 | 1900             | 222_12:06:20 |
| 222_11:43:00 | 1 | RTOF | Mode            | 521           | 15               | 5 | 20460            | 222_17:24:00 |
| 222_12:06:20 | 0 | DFMS | Mode            | 564           | 0                | 0 | 1900             | 222_12:38:00 |
| 222_12:38:00 | 0 | DFMS | Mode            | 566           | 0                | 0 | 2700             | 222_13:23:00 |
| 222_13:23:00 | 0 | DFMS | Mode            | 502           | 0                | 0 | 1280             | 222_13:44:20 |
| 222_13:44:20 | 0 | DFMS | Mode            | 562           | 0                | 0 | 1900             | 222_14:16:00 |
| 222_14:16:00 | 0 | DFMS | Mode            | 502           | 0                | 0 | 1280             | 222_14:37:20 |
| 222_14:37:20 | 0 | DFMS | Mode            | 562           | 0                | 0 | 1900             | 222_15:09:00 |
| 222_15:09:00 | 0 | DFMS | Mode            | 564           | 0                | 0 | 1900             | 222_15:40:40 |
| 222_15:40:40 | 0 | DFMS | Mode            | 566           | 0                | 0 | 2700             | 222_16:25:40 |
| 222_16:25:40 | 0 | DFMS | Mode            | 502           | 0                | 0 | 1280             | 222_16:47:00 |
| 222_16:47:00 | 0 | DFMS | Mode            | 562           | 0                | 0 | 1900             | 222_17:18:40 |
| 222_17:18:40 | 0 | DFMS | Mode            | 502           | 0                | 0 | 1280             | 222_17:40:00 |
| 222_17:24:00 | 0 | RTOF | Mode            | 181           | 2                | 0 | 680              | 222_17:35:20 |
| 222_17:40:00 | 0 | DFMS | Mode            | 562           | 0                | 0 | 1900             | 222_18:11:40 |
| 222_17:43:10 | 1 | RTOF | Flight sequence | ARNS081A      | 0                | 0 | 10               | 222_17:43:20 |
| 222_17:43:20 | 0 | RTOF | Mode            | 1             | 0                | 0 | 240              | 222_17:47:20 |
| 222_17:47:20 | 0 | RTOF | Flight sequence | ARNF014A      | 0                | 0 | 120              | 222_17:49:20 |

| MWNV         |   |        |                  |          |   |                  |      |              |
|--------------|---|--------|------------------|----------|---|------------------|------|--------------|
|              |   |        | 09/08/2016 17:53 |          |   | 09/08/2016 19:03 |      |              |
| 222_18:11:40 | 0 | DFMS   | Mode             | 564      | 0 | 0                | 1900 | 222_18:43:20 |
| 222_18:43:20 | 0 | DFMS   | Mode             | 566      | 0 | 0                | 2700 | 222_19:28:20 |
| 222_19:28:20 | 0 | DFMS   | Mode             | 502      | 0 | 0                | 1280 | 222_19:49:40 |
| 222_19:49:40 | 0 | DFMS   | Mode             | 562      | 0 | 0                | 1900 | 222_20:21:20 |
| 222_20:21:20 | 0 | DFMS   | Mode             | 502      | 0 | 0                | 1280 | 222_20:42:40 |
| 222_20:42:40 | 0 | DFMS   | Mode             | 562      | 0 | 0                | 1900 | 222_21:14:20 |
| 222_21:14:20 | 0 | DFMS   | Mode             | 564      | 0 | 0                | 1900 | 222_21:46:00 |
| 222_21:46:00 | 0 | DFMS   | Mode             | 566      | 0 | 0                | 2700 | 222_22:31:00 |
| 222_22:31:00 | 0 | DFMS   | Mode             | 502      | 0 | 1                | 2560 | 222_23:13:40 |
| 222_23:10:00 | 1 | COPS   | Flight sequence  | ARNF016B | 0 | 0                | 60   | 222_23:11:00 |
| 222_23:20:29 | 1 | ROSINA | Flight sequence  | ZRNP2002 | 0 | 0                | 120  | 222_23:22:29 |
| 222_23:22:29 | 0 | COPS   | Mode             | 0        | 0 | 0                | 150  | 222_23:24:59 |
| MOCM         |   |        |                  |          |   |                  |      |              |
|              |   |        | 09/08/2016 23:25 |          |   | 10/08/2016 05:55 |      |              |

## STP121

| Start time  | Set Time | Instrument | Mode/Sequence   | Mode/Sequence number | Cycle number | Repetition | Duration [s] | Stop time    |
|---|----------|------------|-----------------|----------------------|--------------|------------|--------------|--------------|
| <b>MWOL 09/08/2016 23:25:00 - 10/08/2016 01:59:00</b> |          |            |                 |                      |              |            |              |              |
| 222_23:25:00  | 1        | DFMS       | Flight sequence | ARNF014B             | 0            | 0          | 125          | 222_23:27:05 |
| 222_23:27:05  | 0        | COPS       | Flight sequence | ARNF011A             | 0            | 0          | 210          | 222_23:30:35 |
| 222_23:30:35  | 0        | COPS       | Flight sequence | ARNF015A             | 0            | 0          | 120          | 222_23:32:35 |
| 222_23:32:35  | 0        | DFMS       | Flight sequence | ARNF003A             | 0            | 0          | 120          | 222_23:34:35 |
| 222_23:34:35  | 0        | COPS       | Mode            | 396                  | 1            | 0          | 60           | 222_23:35:35 |
| 222_23:35:35  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1620         | 223_00:02:35 |
| 223_00:02:35  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 223_00:34:15 |
| 223_00:20:00  | 1        | COPS       | Flight sequence | ARNF016A             | 0            | 0          | 60           | 223_00:21:00 |
| 223_00:34:15  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 223_00:55:35 |
| 223_00:55:35  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 223_01:27:15 |
| 223_01:27:15  | 0        | DFMS       | Mode            | 564                  | 0            | 0          | 1900         | 223_01:58:55 |
| 223_01:58:55  | 0        | DFMS       | Mode            | 566                  | 0            | 0          | 2700         | 223_02:43:55 |
| 223_02:43:55  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 223_03:05:15 |
| 223_03:05:15  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 223_03:36:55 |
| 223_03:36:55  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 223_03:58:15 |

DFMS & COPS power cycle



|   |   |        |                 |          |   |   |      |              |
|---|---|--------|-----------------|----------|---|---|------|--------------|
| 223_03:58:15  | 0 | DFMS   | Mode            | 562      | 0 | 0 | 1900 | 223_04:29:55 |
| 223_04:29:55  | 0 | DFMS   | Mode            | 564      | 0 | 0 | 1900 | 223_05:01:35 |
| 223_05:01:35  | 0 | DFMS   | Mode            | 566      | 0 | 0 | 2700 | 223_05:46:35 |
| 223_05:46:35  | 0 | DFMS   | Mode            | 502      | 0 | 0 | 1280 | 223_06:07:55 |
| 223_06:07:55  | 0 | DFMS   | Mode            | 502      | 0 | 0 | 1280 | 223_06:29:15 |
| 223_06:35:00  | 1 | COPS   | Flight sequence | ARNF016B | 0 | 0 | 60   | 223_06:36:00 |
| 223_06:36:00  | 0 | ROSINA | Flight sequence | ZRNP2002 | 0 | 0 | 120  | 223_06:38:00 |
| 223_06:38:00  | 0 | COPS   | Mode            | 0        | 1 | 0 | 150  | 223_06:40:30 |
| <b>MOCM 10/08/2016 06:40:00 - 10/08/2016 11:19:00</b> |   |        |                 |          |   |   |      |              |
| 223_11:19:00  | 1 | COPS   | Mode            | 396      | 1 | 0 | 60   | 223_11:20:00 |
| 223_11:20:00  | 1 | DFMS   | Mode            | 502      | 0 | 0 | 1620 | 223_11:47:00 |
| 223_11:47:00  | 0 | DFMS   | Mode            | 562      | 0 | 0 | 1900 | 223_12:18:40 |
| 223_12:09:00  | 1 | COPS   | Flight sequence | ARNF016A | 0 | 0 | 60   | 223_12:10:00 |
| 223_12:18:40  | 0 | DFMS   | Mode            | 502      | 0 | 0 | 1280 | 223_12:40:00 |
| 223_12:40:00  | 0 | DFMS   | Mode            | 562      | 0 | 0 | 1900 | 223_13:11:40 |
| 223_13:11:40  | 0 | DFMS   | Mode            | 564      | 0 | 0 | 1900 | 223_13:43:20 |
| 223_13:43:20  | 0 | DFMS   | Mode            | 566      | 0 | 0 | 2700 | 223_14:28:20 |
| 223_14:28:20  | 0 | DFMS   | Mode            | 502      | 0 | 0 | 1280 | 223_14:49:40 |
| 223_14:49:40  | 0 | DFMS   | Mode            | 562      | 0 | 0 | 1900 | 223_15:21:20 |
| 223_15:21:20  | 0 | DFMS   | Mode            | 502      | 0 | 0 | 1280 | 223_15:42:40 |
| 223_15:42:40  | 0 | DFMS   | Mode            | 562      | 0 | 0 | 1900 | 223_16:14:20 |
| 223_16:14:20  | 0 | DFMS   | Mode            | 564      | 0 | 0 | 1900 | 223_16:46:00 |
| 223_16:46:00  | 0 | DFMS   | Mode            | 566      | 0 | 0 | 2700 | 223_17:31:00 |
| 223_17:31:00  | 0 | DFMS   | Mode            | 502      | 0 | 0 | 1280 | 223_17:52:20 |
| 223_17:52:20  | 0 | DFMS   | Mode            | 562      | 0 | 0 | 1900 | 223_18:24:00 |
| 223_18:24:00  | 0 | DFMS   | Mode            | 502      | 0 | 0 | 1280 | 223_18:45:20 |
| 223_18:45:20  | 0 | DFMS   | Mode            | 562      | 0 | 0 | 1900 | 223_19:17:00 |
| 223_19:17:00  | 0 | DFMS   | Mode            | 564      | 0 | 0 | 1900 | 223_19:48:40 |
| 223_19:48:40  | 0 | DFMS   | Mode            | 566      | 0 | 0 | 2700 | 223_20:33:40 |
| <b>MWOL 10/08/2016 20:00:00 - 10/08/2016 22:21:30</b> |   |        |                 |          |   |   |      |              |
| 223_20:35:00  | 1 | DFMS   | Flight sequence | ARNS081B | 0 | 0 | 10   | 223_20:35:10 |
| 223_20:35:10  | 0 | DFMS   | Mode            | 1        | 0 | 0 | 120  | 223_20:37:10 |
| 223_20:37:10  | 0 | DFMS   | Mode            | 502      | 0 | 0 | 1620 | 223_21:04:10 |
| 223_21:04:10  | 0 | DFMS   | Mode            | 562      | 0 | 0 | 1900 | 223_21:35:50 |
| 223_21:35:50  | 0 | DFMS   | Mode            | 502      | 0 | 0 | 1280 | 223_21:57:10 |

|   |   |      |                 |               |    |    |       |              |
|---|---|------|-----------------|---------------|----|----|-------|--------------|
| 223_21:57:10  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 223_22:28:50 |
| 223_22:21:30  | 1 | RTOF | Flight sequence | ARNF004A      | 0  | 0  | 120   | 223_22:23:30 |
| 223_22:23:30  | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 26 | 0  | 60    | 223_22:24:30 |
| 223_22:26:30  | 1 | RTOF | Mode            | 521           | 13 | 10 | 33810 | 224_07:50:00 |
| 223_22:28:50  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 223_22:50:10 |
| 223_22:50:10  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 223_23:21:50 |
| 223_23:21:50  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 223_23:53:30 |
| 223_23:53:30  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 224_00:38:30 |
| 224_00:38:30  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 224_00:59:50 |
| 224_00:59:50  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 224_01:31:30 |
| 224_01:31:30  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 224_01:52:50 |
| 224_01:52:50  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 224_02:24:30 |
| 224_02:24:30  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 224_02:56:10 |
| 224_02:56:10  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 224_03:41:10 |
| 224_03:41:10  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 224_04:02:30 |
| 224_04:02:30  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 224_04:34:10 |
| 224_04:34:10  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 224_04:55:30 |
| 224_04:55:30  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 224_05:27:10 |
| 224_05:27:10  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 224_05:58:50 |
| 224_05:58:50  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 224_06:43:50 |
| 224_06:43:50  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 224_07:05:10 |
| 224_07:05:10  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 224_07:36:50 |
| 224_07:36:50  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 224_07:58:10 |
| 224_07:52:40  | 1 | RTOF | Flight sequence | ARNS081C      | 0  | 0  | 10    | 224_07:52:50 |
| 224_07:52:50  | 0 | RTOF | Mode            | 1             | 0  | 0  | 240   | 224_07:56:50 |
| 224_07:56:50  | 0 | RTOF | Flight sequence | ARNF014A      | 0  | 0  | 120   | 224_07:58:50 |
| 224_07:58:50  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 224_08:30:30 |
| <b>MWOL 11/08/2016 08:00:00 - 11/08/2016 10:21:00</b> |   |      |                 |               |    |    |       |              |
| 224_08:32:00  | 1 | DFMS | Flight sequence | ARNS081B      | 0  | 0  | 10    | 224_08:32:10 |
| 224_08:32:10  | 0 | DFMS | Mode            | 1             | 0  | 0  | 120   | 224_08:34:10 |
| 224_08:34:10  | 0 | DFMS | Mode            | 564           | 0  | 0  | 2450  | 224_09:15:00 |
| 224_09:15:00  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 224_10:00:00 |
| 224_10:00:00  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 224_10:21:20 |
| 224_10:21:00  | 1 | RTOF | Flight sequence | ARNF004A      | 0  | 0  | 120   | 224_10:23:00 |
| 224_10:23:00  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 224_10:54:40 |

Block 3  
closest  
approach  
to comet

|   |   |      |                 |               |    |    |       |              |
|---|---|------|-----------------|---------------|----|----|-------|--------------|
| 224_10:24:00  | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 26 | 0  | 60    | 224_10:25:00 |
| 224_10:25:04  | 1 | RTOF | Mode            | 521           | 13 | 10 | 33760 | 224_19:47:44 |
| 224_10:54:40  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 224_11:16:00 |
| 224_11:16:00  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 224_11:47:40 |
| 224_11:47:40  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 224_12:19:20 |
| 224_12:19:20  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 224_13:04:20 |
| 224_13:04:20  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 224_13:25:40 |
| 224_13:25:40  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 224_13:57:20 |
| 224_13:57:20  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 224_14:18:40 |
| 224_14:18:40  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 224_14:50:20 |
| 224_14:50:20  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 224_15:22:00 |
| 224_15:22:00  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 224_16:07:00 |
| 224_16:07:00  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 224_16:28:20 |
| 224_16:28:20  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 224_17:00:00 |
| 224_17:00:00  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 224_17:21:20 |
| 224_17:21:20  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 224_17:53:00 |
| 224_17:53:00  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 224_18:24:40 |
| 224_18:24:40  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 224_19:09:40 |
| 224_19:09:40  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 224_19:31:00 |
| 224_19:31:00  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 224_20:02:40 |
| 224_19:54:50  | 1 | RTOF | Flight sequence | ARNS081C      | 0  | 0  | 10    | 224_19:55:00 |
| 224_19:55:00  | 0 | RTOF | Mode            | 1             | 0  | 0  | 240   | 224_19:59:00 |
| 224_19:59:00  | 0 | RTOF | Flight sequence | ARNF014A      | 0  | 0  | 120   | 224_20:01:00 |
| <b>MWOL 11/08/2016 20:00:00 - 11/08/2016 22:16:30</b> |   |      |                 |               |    |    |       |              |
| 224_20:02:40  | 0 | DFMS | Flight sequence | ARNS081B      | 0  | 0  | 10    | 224_20:02:50 |
| 224_20:02:50  | 0 | DFMS | Mode            | 1             | 0  | 0  | 120   | 224_20:04:50 |
| 224_20:04:50  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1620  | 224_20:31:50 |
| 224_20:31:50  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 224_21:03:30 |
| 224_21:03:30  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 224_21:35:10 |
| 224_21:35:10  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 224_22:20:10 |
| 224_22:16:00  | 1 | RTOF | Flight sequence | ARNF004A      | 0  | 0  | 120   | 224_22:18:00 |
| 224_22:18:00  | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 25 | 0  | 60    | 224_22:19:00 |
| 224_22:19:04  | 1 | RTOF | Mode            | 521           | 14 | 8  | 29670 | 225_06:33:34 |
| 224_22:20:10  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 224_22:41:30 |
| 224_22:41:30  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 224_23:13:10 |

|   |   |        |                 |            |   |   |      |              |
|---|---|--------|-----------------|------------|---|---|------|--------------|
| 224_23:13:10  | 0 | DFMS   | Mode            | 502        | 0 | 0 | 1280 | 224_23:34:30 |
| 224_23:34:30  | 0 | DFMS   | Mode            | 562        | 0 | 0 | 1900 | 225_00:06:10 |
| 225_00:06:10  | 0 | DFMS   | Mode            | 564        | 0 | 0 | 1900 | 225_00:37:50 |
| 225_00:37:50  | 0 | DFMS   | Mode            | 566        | 0 | 0 | 2700 | 225_01:22:50 |
| 225_01:22:50  | 0 | DFMS   | Mode            | 502        | 0 | 0 | 1280 | 225_01:44:10 |
| 225_01:44:10  | 0 | DFMS   | Mode            | 562        | 0 | 0 | 1900 | 225_02:15:50 |
| 225_02:15:50  | 0 | DFMS   | Mode            | 502        | 0 | 0 | 1280 | 225_02:37:10 |
| 225_02:37:10  | 0 | DFMS   | Mode            | 562        | 0 | 0 | 1900 | 225_03:08:50 |
| 225_03:08:50  | 0 | DFMS   | Mode            | 564        | 0 | 0 | 1900 | 225_03:40:30 |
| 225_03:40:30  | 0 | DFMS   | Mode            | 566        | 0 | 0 | 2700 | 225_04:25:30 |
| 225_04:25:30  | 0 | DFMS   | Mode            | 502        | 0 | 0 | 1280 | 225_04:46:50 |
| 225_04:46:50  | 0 | DFMS   | Mode            | 562        | 0 | 0 | 1900 | 225_05:18:30 |
| 225_05:18:30  | 0 | DFMS   | Mode            | 564        | 0 | 0 | 1900 | 225_05:50:10 |
| 225_05:50:10  | 0 | DFMS   | Mode            | 566        | 0 | 0 | 2700 | 225_06:35:10 |
| 225_06:34:00  | 1 | COPS   | Flight sequence | ARNF016B   | 0 | 0 | 60   | 225_06:35:00 |
| 225_06:35:10  | 0 | ROSINA | Flight sequence | ZRNP2002   | 0 | 0 | 240  | 225_06:39:10 |
| 225_06:39:10  | 0 | RTOF   | Flight sequence | ARNF014A   | 0 | 0 | 120  | 225_06:41:10 |
| <b>MOCM 12/08/2016 06:40:00 - 12/08/2016 11:00:00</b> |   |        |                 |            |   |   |      |              |
| 225_06:41:10  | 0 | COPS   | Mode            | 0          | 1 | 0 | 150  | 225_06:43:40 |
| 225_06:42:10  | 0 | DFMS   | Flight sequence | ARNF014B   | 0 | 0 | 125  | 225_06:44:15 |
| 225_06:44:15  | 0 | COPS   | Flight sequence | ARNF011A   | 0 | 0 | 210  | 225_06:47:45 |
| 225_06:47:45  | 0 | ROSINA | Flight sequence | ARNF051A   | 0 | 0 | 60   | 225_06:48:45 |
| 225_07:10:00  | 1 | ROSINA | Flight sequence | ARNF050A_M | 0 | 0 | 120  | 225_07:12:00 |
| 225_07:12:00  | 0 | ROSINA | Flight sequence | ARNF002A   | 0 | 0 | 220  | 225_07:15:40 |
| 225_07:15:40  | 0 | COPS   | Flight sequence | ARNF015A   | 0 | 0 | 120  | 225_07:17:40 |
| 225_07:17:40  | 0 | DFMS   | Flight sequence | ARNF003A   | 0 | 0 | 120  | 225_07:19:40 |
| 225_11:00:00  | 1 | COPS   | Mode            | 396        | 1 | 0 | 60   | 225_11:01:00 |
| 225_11:02:00  | 1 | DFMS   | Mode            | 502        | 0 | 0 | 1620 | 225_11:29:00 |
| 225_11:29:00  | 0 | DFMS   | Mode            | 562        | 0 | 0 | 1900 | 225_12:00:40 |
| 225_11:50:00  | 1 | COPS   | Flight sequence | ARNF016A   | 0 | 0 | 60   | 225_11:51:00 |
| 225_12:00:40  | 0 | DFMS   | Mode            | 502        | 0 | 0 | 1280 | 225_12:22:00 |
| 225_12:22:00  | 0 | DFMS   | Mode            | 562        | 0 | 0 | 1900 | 225_12:53:40 |
| 225_12:53:40  | 0 | DFMS   | Mode            | 564        | 0 | 0 | 2020 | 225_13:27:20 |
| 225_13:27:20  | 0 | DFMS   | Mode            | 566        | 0 | 0 | 2820 | 225_14:14:20 |
| 225_14:14:20  | 0 | DFMS   | Mode            | 502        | 0 | 0 | 1280 | 225_14:35:40 |

Power  
cycle to  
reset DPU

|              |   |      |                 |               |    |   |       |              |
|--------------|---|------|-----------------|---------------|----|---|-------|--------------|
| 225_14:35:40 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 225_15:07:20 |
| 225_14:40:00 | 1 | RTOF | Flight sequence | ARNF004A      | 0  | 0 | 120   | 225_14:42:00 |
| 225_14:42:00 | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 26 | 0 | 60    | 225_14:43:00 |
| 225_14:43:00 | 0 | RTOF | Mode            | 521           | 15 | 9 | 35020 | 226_00:26:40 |
| 225_15:07:20 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 225_15:28:40 |
| 225_15:28:40 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 225_15:50:00 |
| 225_15:50:00 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 225_16:21:40 |
| 225_16:21:40 | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 225_16:53:20 |
| 225_16:53:20 | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 225_17:38:20 |
| 225_17:38:20 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 225_17:59:40 |
| 225_17:59:40 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 225_18:31:20 |
| 225_18:31:20 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 225_18:52:40 |
| 225_18:52:40 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 225_19:24:20 |
| 225_19:24:20 | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 225_19:56:00 |
| 225_19:56:00 | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 225_20:41:00 |
| 225_20:41:00 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 225_21:02:20 |
| 225_21:02:20 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 225_21:34:00 |
| 225_21:34:00 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 225_21:55:20 |
| 225_21:55:20 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 225_22:27:00 |
| 225_22:27:00 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 225_22:48:20 |
| 225_22:48:20 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 225_23:20:00 |
| 225_23:20:00 | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 225_23:51:40 |
| 225_23:51:40 | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 226_00:36:40 |
| 226_00:26:40 | 0 | RTOF | Mode            | 521           | 2  | 0 | 680   | 226_00:38:00 |
| 226_00:36:40 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 226_00:58:00 |
| 226_00:38:00 | 0 | RTOF | Mode            | 181           | 3  | 0 | 950   | 226_00:53:50 |
| 226_00:53:50 | 0 | RTOF | Flight sequence | ARNS081C      | 0  | 0 | 10    | 226_00:54:00 |
| 226_00:54:00 | 0 | RTOF | Mode            | 1             | 0  | 0 | 240   | 226_00:58:00 |
| 226_00:58:00 | 0 | RTOF | Flight sequence | ARNF014A      | 0  | 0 | 120   | 226_01:00:00 |
| 226_01:00:00 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 226_01:31:40 |
| 226_01:31:40 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 226_01:53:00 |
| 226_01:53:00 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 226_02:24:40 |
| 226_02:24:40 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 226_02:46:00 |
| 226_02:46:00 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 226_03:17:40 |
| 226_03:17:40 | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 226_03:49:20 |

|   |   |        |                 |               |    |   |      |              |
|---|---|--------|-----------------|---------------|----|---|------|--------------|
| 226_03:49:20  | 0 | DFMS   | Mode            | 566           | 0  | 0 | 2700 | 226_04:34:20 |
| 226_04:34:20  | 0 | DFMS   | Mode            | 502           | 0  | 0 | 1280 | 226_04:55:40 |
| 226_04:55:40  | 0 | DFMS   | Mode            | 562           | 0  | 0 | 1900 | 226_05:27:20 |
| 226_05:27:20  | 0 | DFMS   | Mode            | 564           | 0  | 0 | 1900 | 226_05:59:00 |
| 226_05:59:00  | 0 | DFMS   | Mode            | 502           | 0  | 0 | 1280 | 226_06:20:20 |
| 226_06:30:00  | 1 | ROSINA | Flight sequence | ZRNP2002      | 0  | 0 | 120  | 226_06:32:00 |
| 226_06:32:00  | 0 | COPS   | Flight sequence | ARNF016B      | 0  | 0 | 60   | 226_06:33:00 |
| 226_06:33:00  | 0 | COPS   | Mode            | 0             | 1  | 0 | 150  | 226_06:35:30 |
| <b>MOCM 13/08/2016 06:40:00 - 13/08/2016 11:06:30</b> |   |        |                 |               |    |   |      |              |
| 226_11:06:30  | 1 | COPS   | Mode            | 396           | 1  | 0 | 60   | 226_11:07:30 |
| 226_11:07:30  | 1 | DFMS   | Mode            | 502           | 0  | 0 | 1620 | 226_11:34:30 |
| 226_11:09:00  | 1 | RTOF   | Flight sequence | ARNF004A      | 0  | 0 | 120  | 226_11:11:00 |
| 226_11:11:00  | 0 | RTOF   | Flight sequence | ARNS041A_RTOF | 40 | 0 | 60   | 226_11:12:00 |
| 226_11:34:30  | 0 | DFMS   | Mode            | 522           | 0  | 8 | 1332 | 226_11:56:42 |
| 226_11:55:00  | 1 | COPS   | Flight sequence | ARNF016A      | 0  | 0 | 60   | 226_11:56:00 |
| 226_11:56:42  | 0 | DFMS   | Mode            | 601           | 0  | 0 | 4600 | 226_13:13:22 |
| 226_13:13:22  | 0 | DFMS   | Mode            | 522           | 0  | 8 | 1452 | 226_13:37:34 |
| 226_13:37:34  | 0 | DFMS   | Mode            | 502           | 0  | 0 | 1280 | 226_13:58:54 |
| 226_13:58:54  | 0 | DFMS   | Mode            | 562           | 0  | 0 | 1900 | 226_14:30:34 |
| 226_14:30:34  | 0 | DFMS   | Mode            | 502           | 0  | 0 | 1280 | 226_14:51:54 |
| 226_14:51:54  | 0 | DFMS   | Mode            | 562           | 0  | 0 | 1900 | 226_15:23:34 |
| 226_15:23:34  | 0 | DFMS   | Mode            | 502           | 0  | 0 | 1280 | 226_15:44:54 |
| 226_15:44:54  | 0 | DFMS   | Mode            | 562           | 0  | 0 | 1900 | 226_16:16:34 |
| 226_16:16:34  | 0 | DFMS   | Mode            | 502           | 0  | 0 | 1280 | 226_16:37:54 |
| 226_16:37:54  | 0 | DFMS   | Mode            | 562           | 0  | 0 | 1900 | 226_17:09:34 |
| 226_17:09:34  | 0 | DFMS   | Mode            | 564           | 0  | 0 | 1900 | 226_17:41:14 |
| 226_17:41:14  | 0 | DFMS   | Mode            | 566           | 0  | 0 | 2700 | 226_18:26:14 |
| 226_18:26:14  | 0 | DFMS   | Mode            | 502           | 0  | 0 | 1280 | 226_18:47:34 |
| 226_18:47:34  | 0 | DFMS   | Mode            | 562           | 0  | 0 | 1900 | 226_19:19:14 |
| 226_19:19:14  | 0 | DFMS   | Mode            | 502           | 0  | 0 | 1280 | 226_19:40:34 |
| 226_19:40:34  | 0 | DFMS   | Mode            | 562           | 0  | 0 | 1900 | 226_20:12:14 |
| 226_20:12:14  | 0 | DFMS   | Mode            | 564           | 0  | 0 | 1900 | 226_20:43:54 |
| 226_20:43:54  | 0 | DFMS   | Mode            | 566           | 0  | 0 | 2700 | 226_21:28:54 |
| 226_21:28:54  | 0 | DFMS   | Mode            | 502           | 0  | 0 | 1280 | 226_21:50:14 |
| 226_21:50:14  | 0 | DFMS   | Mode            | 562           | 0  | 0 | 1900 | 226_22:21:54 |

|   |   |      |                 |          |   |   |      |              |
|---|---|------|-----------------|----------|---|---|------|--------------|
| 226_22:21:54  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 226_22:43:14 |
| 226_22:43:14  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 226_23:14:54 |
| 226_23:14:54  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 226_23:46:34 |
| 226_23:46:34  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 227_00:31:34 |
| 227_00:31:34  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 227_00:52:54 |
| 227_00:52:54  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 227_01:24:34 |
| 227_01:24:34  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 227_01:45:54 |
| 227_01:45:54  | 0 | DFMS | Mode            | 522      | 0 | 8 | 1332 | 227_02:08:06 |
| 227_02:08:06  | 0 | DFMS | Mode            | 601      | 0 | 0 | 4600 | 227_03:24:46 |
| 227_03:24:46  | 0 | DFMS | Mode            | 522      | 0 | 8 | 1452 | 227_03:48:58 |
| 227_03:53:00  | 1 | RTOF | Flight sequence | ARNS081C | 0 | 0 | 10   | 227_03:53:10 |
| 227_03:53:10  | 0 | RTOF | Mode            | 1        | 0 | 0 | 120  | 227_03:55:10 |
| 227_03:55:10  | 0 | RTOF | Flight sequence | ARNF014A | 0 | 0 | 120  | 227_03:57:10 |
| 227_03:57:10  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 227_04:28:50 |
| 227_04:28:50  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 227_05:13:50 |
| 227_05:13:50  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 227_05:35:10 |
| 227_05:35:10  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 227_06:06:50 |
| 227_06:06:50  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 227_06:28:10 |
| 227_06:28:10  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 227_06:59:50 |
| 227_06:59:50  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 227_07:31:30 |
| 227_07:31:30  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 227_08:16:30 |
| 227_08:16:30  | 0 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 227_08:16:40 |
| 227_08:16:40  | 0 | DFMS | Mode            | 1        | 0 | 0 | 120  | 227_08:18:40 |
| 227_08:18:40  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1620 | 227_08:45:40 |
| <b>MWOL 14/08/2016 08:45:00 - 14/08/2016 11:01:30</b> |   |      |                 |          |   |   |      |              |
| 227_08:45:40  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 227_09:17:20 |
| 227_09:17:20  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 227_09:38:40 |
| 227_09:38:40  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 227_10:10:20 |
| 227_10:10:20  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 227_10:42:00 |
| 227_10:42:00  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2820 | 227_11:29:00 |
| 227_11:29:00  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1400 | 227_11:52:20 |
| 227_11:52:20  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 227_12:24:00 |
| 227_12:24:00  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 227_12:45:20 |
| 227_12:45:20  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 227_13:17:00 |
| 227_13:17:00  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 227_13:48:40 |

|              |   |      |                 |               |    |    |       |              |
|--------------|---|------|-----------------|---------------|----|----|-------|--------------|
| 227_13:48:40 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 227_14:33:40 |
| 227_14:33:40 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 227_14:55:00 |
| 227_14:55:00 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 227_15:26:40 |
| 227_15:26:40 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 227_15:48:00 |
| 227_15:48:00 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 227_16:19:40 |
| 227_16:19:40 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 227_16:51:20 |
| 227_16:55:00 | 1 | RTOF | Flight sequence | ARNF004A      | 0  | 0  | 120   | 227_16:57:00 |
| 227_16:57:00 | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 40 | 0  | 60    | 227_16:58:00 |
| 227_16:58:00 | 0 | RTOF | Mode            | 521           | 15 | 13 | 48610 | 228_06:28:10 |
| 227_16:59:00 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 227_17:44:00 |
| 227_17:44:00 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 227_18:05:20 |
| 227_18:05:20 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 227_18:37:00 |
| 227_18:37:00 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 227_18:58:20 |
| 227_18:58:20 | 0 | DFMS | Mode            | 522           | 0  | 8  | 1332  | 227_19:20:32 |
| 227_19:20:32 | 0 | DFMS | Mode            | 522           | 0  | 8  | 1332  | 227_19:42:44 |
| 227_19:42:44 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 227_20:04:04 |
| 227_20:04:04 | 0 | DFMS | Mode            | 562           | 0  | 0  | 2020  | 227_20:37:44 |
| 227_20:37:44 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 227_21:09:24 |
| 227_21:09:24 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 227_21:54:24 |
| 227_21:54:24 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 227_22:15:44 |
| 227_22:15:44 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 227_22:47:24 |
| 227_22:47:24 | 0 | DFMS | Mode            | 522           | 0  | 7  | 1184  | 227_23:07:08 |
| 227_23:07:08 | 0 | DFMS | Mode            | 522           | 0  | 7  | 1184  | 227_23:26:52 |
| 227_23:26:52 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 227_23:48:12 |
| 227_23:48:12 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 228_00:19:52 |
| 228_00:19:52 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 228_00:51:32 |
| 228_00:51:32 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 228_01:36:32 |
| 228_01:36:32 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 228_01:57:52 |
| 228_01:57:52 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 228_02:29:32 |
| 228_02:29:32 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 228_03:01:12 |
| 228_03:01:12 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 228_03:22:32 |
| 228_03:22:32 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 228_03:54:12 |
| 228_03:54:12 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 228_04:15:32 |
| 228_04:15:32 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 228_04:36:52 |
| 228_04:36:52 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 228_05:08:32 |



|              |   |        |                 |          |   |   |      |              |
|--------------|---|--------|-----------------|----------|---|---|------|--------------|
| 228_05:08:32 | 0 | DFMS   | Mode            | 564      | 0 | 0 | 1900 | 228_05:40:12 |
| 228_05:40:12 | 0 | DFMS   | Mode            | 566      | 0 | 0 | 2700 | 228_06:25:12 |
| 228_06:28:10 | 0 | ROSINA | Flight sequence | ZRNP2002 | 0 | 0 | 240  | 228_06:32:10 |
| 228_06:32:10 | 0 | COPS   | Flight sequence | ARNF016B | 0 | 0 | 60   | 228_06:33:10 |
| 228_06:33:10 | 0 | RTOF   | Flight sequence | ARNF014A | 0 | 0 | 120  | 228_06:35:10 |
| 228_06:35:10 | 0 | COPS   | Mode            | 0        | 1 | 0 | 150  | 228_06:37:40 |

**MOCM 15/08/2016 06:40:00 - 15/08/2016 11:00:00**

## STP122

| Start time  | Set Time | Instrument | Mode/Sequence   | Mode/Sequence number | Cycle number | Repetition | Duration [s] | Stop time    |
|---|----------|------------|-----------------|----------------------|--------------|------------|--------------|--------------|
| <b>MOCM 15/08/2016 06:40:00 - 15/08/2016 11:00:00</b> |          |            |                 |                      |              |            |              |              |
| 228_11:00:00  | 1        | COPS       | Mode            | 396                  | 1            | 0          | 60           | 228_11:01:00 |
| 228_11:01:00  | 1        | DFMS       | Mode            | 502                  | 0            | 0          | 1620         | 228_11:28:00 |
| 228_11:28:00  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 228_11:59:40 |
| 228_11:55:00  | 1        | COPS       | Flight sequence | ARNF016A             | 0            | 0          | 60           | 228_11:56:00 |
| 228_11:59:40  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 228_12:21:00 |
| 228_12:21:00  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 228_12:52:40 |
| 228_12:52:40  | 0        | DFMS       | Mode            | 564                  | 0            | 0          | 1900         | 228_13:24:20 |
| 228_13:24:20  | 0        | DFMS       | Mode            | 566                  | 0            | 0          | 2700         | 228_14:09:20 |
| 228_14:09:20  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 228_14:30:40 |
| 228_14:30:40  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 228_15:02:20 |
| 228_14:40:00  | 1        | RTOF       | Flight sequence | ARNF004A             | 0            | 0          | 120          | 228_14:42:00 |
| 228_14:42:00  | 0        | RTOF       | Flight sequence | ARNS041A_RTOF        | 25           | 0          | 60           | 228_14:43:00 |
| 228_14:43:00  | 0        | RTOF       | Mode            | 521                  | 13           | 10         | 33760        | 229_00:05:40 |
| 228_15:02:20  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 228_15:23:40 |
| 228_15:23:40  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 228_15:55:20 |
| 228_15:55:20  | 0        | DFMS       | Mode            | 564                  | 0            | 0          | 1900         | 228_16:27:00 |
| 228_16:27:00  | 0        | DFMS       | Mode            | 566                  | 0            | 0          | 2700         | 228_17:12:00 |
| 228_17:12:00  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 228_17:33:20 |
| 228_17:33:20  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 228_18:05:00 |
| 228_18:05:00  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 228_18:26:20 |
| 228_18:26:20  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 228_18:58:00 |
| 228_18:58:00  | 0        | DFMS       | Mode            | 564                  | 0            | 0          | 1900         | 228_19:29:40 |

Block 3

|   |   |      |                 |               |    |    |       |              |
|---|---|------|-----------------|---------------|----|----|-------|--------------|
| 228_19:29:40  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 228_20:14:40 |
| 228_20:14:40  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 228_20:36:00 |
| 228_20:36:00  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 228_21:07:40 |
| 228_21:07:40  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 228_21:29:00 |
| 228_21:29:00  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 228_22:00:40 |
| 228_22:00:40  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 228_22:32:20 |
| 228_22:32:20  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 228_23:17:20 |
| 228_23:17:20  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 228_23:38:40 |
| 228_23:38:40  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 229_00:10:20 |
| 229_00:05:40  | 0 | RTOF | Mode            | 1             | 0  | 0  | 240   | 229_00:09:40 |
| 229_00:10:20  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 229_00:31:40 |
| 229_00:31:40  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 229_01:03:20 |
| 229_00:38:00  | 1 | RTOF | Flight sequence | ARNF014A      | 0  | 0  | 120   | 229_00:40:00 |
| 229_01:03:20  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 229_01:35:00 |
| 229_01:35:00  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 229_02:20:00 |
| 229_02:20:00  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 229_02:41:20 |
| 229_02:41:20  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 229_03:13:00 |
| 229_03:13:00  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 229_03:34:20 |
| 229_03:34:20  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 229_04:06:00 |
| 229_04:06:00  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 229_04:37:40 |
| 229_04:37:40  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 229_05:22:40 |
| 229_05:22:40  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 229_05:44:00 |
| 229_05:44:00  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 229_06:15:40 |
| 229_06:15:40  | 0 | DFMS | Flight sequence | ARNS081B      | 0  | 0  | 10    | 229_06:15:50 |
| 229_06:15:50  | 0 | DFMS | Mode            | 1             | 0  | 0  | 120   | 229_06:17:50 |
| 229_06:36:30  | 1 | COPS | Flight sequence | ARNF016B      | 0  | 0  | 60    | 229_06:37:30 |
| 229_06:37:30  | 0 | COPS | Mode            | 0             | 0  | 0  | 150   | 229_06:40:00 |
| <b>MOCM 16/08/2016 06:40:00 - 16/08/2016 11:06:30</b> |   |      |                 |               |    |    |       |              |
| 229_11:06:30  | 1 | COPS | Mode            | 396           | 1  | 0  | 60    | 229_11:07:30 |
| 229_11:07:30  | 1 | DFMS | Mode            | 502           | 0  | 0  | 1620  | 229_11:34:30 |
| 229_11:08:30  | 1 | RTOF | Flight sequence | ARNF004A      | 0  | 0  | 120   | 229_11:10:30 |
| 229_11:10:30  | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 40 | 0  | 60    | 229_11:11:30 |
| 229_11:11:30  | 0 | RTOF | Mode            | 521           | 15 | 16 | 58840 | 230_03:32:10 |
| 229_11:34:30  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 229_12:06:10 |
| 229_12:01:30  | 1 | COPS | Flight sequence | ARNF016B      | 0  | 0  | 60    | 229_12:02:30 |

Block 6

|              |   |      |      |     |   |   |      |              |
|--------------|---|------|------|-----|---|---|------|--------------|
| 229_12:06:10 | 0 | DFMS | Mode | 564 | 0 | 0 | 1900 | 229_12:37:50 |
| 229_12:37:50 | 0 | DFMS | Mode | 566 | 0 | 0 | 2700 | 229_13:22:50 |
| 229_13:22:50 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 229_13:44:10 |
| 229_13:44:10 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 229_14:15:50 |
| 229_14:15:50 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 229_14:37:10 |
| 229_14:37:10 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 229_15:08:50 |
| 229_15:08:50 | 0 | DFMS | Mode | 564 | 0 | 0 | 1900 | 229_15:40:30 |
| 229_15:40:30 | 0 | DFMS | Mode | 566 | 0 | 0 | 2700 | 229_16:25:30 |
| 229_16:25:30 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 229_16:46:50 |
| 229_16:46:50 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 229_17:18:30 |
| 229_17:18:30 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 229_17:39:50 |
| 229_17:39:50 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 229_18:11:30 |
| 229_18:11:30 | 0 | DFMS | Mode | 564 | 0 | 0 | 1900 | 229_18:43:10 |
| 229_18:43:10 | 0 | DFMS | Mode | 566 | 0 | 0 | 2700 | 229_19:28:10 |
| 229_19:28:10 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 229_19:49:30 |
| 229_19:49:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 229_20:21:10 |
| 229_20:21:10 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 229_20:42:30 |
| 229_20:42:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 229_21:14:10 |
| 229_21:14:10 | 0 | DFMS | Mode | 564 | 0 | 0 | 1900 | 229_21:45:50 |
| 229_21:45:50 | 0 | DFMS | Mode | 566 | 0 | 0 | 2700 | 229_22:30:50 |
| 229_22:30:50 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 229_22:52:10 |
| 229_22:52:10 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 229_23:23:50 |
| 229_23:23:50 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 229_23:45:10 |
| 229_23:45:10 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 230_00:16:50 |
| 230_00:16:50 | 0 | DFMS | Mode | 564 | 0 | 0 | 1900 | 230_00:48:30 |
| 230_00:48:30 | 0 | DFMS | Mode | 566 | 0 | 0 | 2700 | 230_01:33:30 |
| 230_01:33:30 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 230_01:54:50 |
| 230_01:54:50 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 230_02:26:30 |
| 230_02:26:30 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 230_02:47:50 |

**230\_02:47:38 COPS PRESSURE ALERT!**

|              |   |      |                 |          |   |   |      |              |
|--------------|---|------|-----------------|----------|---|---|------|--------------|
| 230_02:47:50 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 230_03:19:30 |
| 230_03:19:30 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 230_03:51:10 |
| 230_03:32:10 | 0 | RTOF | Mode            | 4        | 0 | 0 | 240  | 230_03:36:10 |
| 230_03:36:10 | 0 | RTOF | Flight sequence | ARNF014A | 0 | 0 | 120  | 230_03:38:10 |
| 230_03:51:10 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 230_04:36:10 |

**230\_04:05:29 COPS PRESSURE ALERT!**

|              |   |      |      |     |   |   |      |              |
|--------------|---|------|------|-----|---|---|------|--------------|
| 230_04:36:10 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 230_04:57:30 |
| 230_04:57:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 230_05:29:10 |

**230\_05:23:25 COPS PRESSURE ALERT!**

|              |   |      |      |     |   |   |      |              |
|--------------|---|------|------|-----|---|---|------|--------------|
| 230_05:29:10 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 230_05:50:30 |
| 230_05:50:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 230_06:22:10 |
| 230_06:22:10 | 0 | DFMS | Mode | 564 | 0 | 0 | 1900 | 230_06:53:50 |

**230\_06:41:11 COPS PRESSURE ALERT!**

|              |   |      |      |     |   |   |      |              |
|--------------|---|------|------|-----|---|---|------|--------------|
| 230_06:53:50 | 0 | DFMS | Mode | 566 | 0 | 0 | 2700 | 230_07:38:50 |
| 230_07:38:50 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 230_08:00:10 |

**230\_07:58:58 COPS PRESSURE ALERT!**

|              |   |      |      |     |   |   |      |              |
|--------------|---|------|------|-----|---|---|------|--------------|
| 230_08:00:10 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 230_08:31:50 |
| 230_08:31:50 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 230_08:53:10 |

**MWOL 17/08/2016 08:45:00 - 17/08/2016 11:01:30**

|              |   |      |                 |          |   |   |      |              |
|--------------|---|------|-----------------|----------|---|---|------|--------------|
| 230_08:53:10 | 0 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 230_08:53:20 |
| 230_08:53:20 | 0 | DFMS | Mode            | 4        | 0 | 0 | 120  | 230_08:55:20 |
| 230_08:55:20 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1620 | 230_09:22:20 |

**230\_08:59:13 COPS M322 starts successfully**

**230\_09:16:52 Event: PRO\_C\_LEVEL**

|              |   |      |      |     |   |   |      |              |
|--------------|---|------|------|-----|---|---|------|--------------|
| 230_09:22:20 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 230_09:54:00 |
|--------------|---|------|------|-----|---|---|------|--------------|

**230\_09:23:10 Event: PRO\_C\_LEVEL**

**Event:  
PRO\_PRESRES**

|              |   |      |      |     |   |   |      |              |
|--------------|---|------|------|-----|---|---|------|--------------|
| 230_09:54:00 | 0 | DFMS | Mode | 564 | 0 | 0 | 1900 | 230_10:25:40 |
| 230_10:25:40 | 0 | DFMS | Mode | 566 | 0 | 0 | 2700 | 230_11:10:40 |
| 230_11:10:40 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 230_11:32:00 |
| 230_11:32:00 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 230_12:03:40 |
| 230_12:03:40 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 230_12:25:00 |
| 230_12:25:00 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 230_12:56:40 |
| 230_12:56:40 | 0 | DFMS | Mode | 564 | 0 | 0 | 1900 | 230_13:28:20 |
| 230_13:28:20 | 0 | DFMS | Mode | 566 | 0 | 0 | 2700 | 230_14:13:20 |

**230\_13:38:46 RTOF OFF (= Event: PRO\_SENOFF)**

**230\_13:39:26 DFMS OFF (= Event: PRO\_SENOFF)**

**230\_13:39:46 COPS OFF (= Event: PRO\_C\_OFF + Event: PRO\_SENOFF)**

**230\_13:40:XX DPU OFF**

**230\_14:45:00 DPU ON**

PDOP

Commands cancelled after this point

|              |   |      |                 |               |     |     |       |              |
|--------------|---|------|-----------------|---------------|-----|-----|-------|--------------|
| 230_14:13:20 | 0 | DFMS | Mode            | 502           | 0   | 0   | 1280  | 230_14:34:40 |
| 230_14:34:40 | 0 | DFMS | Mode            | 562           | 0   | 0   | 1900  | 230_15:06:20 |
| 230_15:06:20 | 0 | DFMS | Mode            | 502           | 0   | 0   | 1280  | 230_15:27:40 |
| 230_15:27:40 | 0 | DFMS | Mode            | 562           | 0   | 0   | 1900  | 230_15:59:20 |
| 230_15:59:20 | 0 | DFMS | Mode            | 564           | 0   | 0   | 1900  | 230_16:31:00 |
| 230_16:31:00 | 0 | DFMS | Mode            | 566           | 0   | 0   | 2700  | 230_17:16:00 |
| 230_16:55:00 | 1 | RTOF | Flight sequence | ARNF004A      | 0   | 0   | 120   | 230_16:57:00 |
| 230_16:57:00 | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 40  | 0   | 60    | 230_16:58:00 |
| 230_16:58:00 | 0 | RTOF | Mode            | 521           | -15 | -12 | 45200 | 231_05:31:20 |
| 230_17:16:00 | 0 | DFMS | Mode            | 502           | 0   | 0   | 1280  | 230_17:37:20 |
| 230_17:37:20 | 0 | DFMS | Mode            | 562           | 0   | 0   | 1900  | 230_18:09:00 |
| 230_18:09:00 | 0 | DFMS | Mode            | 502           | 0   | 0   | 1280  | 230_18:30:20 |
| 230_18:30:20 | 0 | DFMS | Mode            | 562           | 0   | 0   | 1900  | 230_19:02:00 |
| 230_19:02:00 | 0 | DFMS | Mode            | 564           | 0   | 0   | 1900  | 230_19:33:40 |
| 230_19:33:40 | 0 | DFMS | Mode            | 566           | 0   | 0   | 2700  | 230_20:18:40 |
| 230_20:18:40 | 0 | DFMS | Mode            | 502           | 0   | 0   | 1280  | 230_20:40:00 |
| 230_20:40:00 | 0 | DFMS | Mode            | 562           | 0   | 0   | 1900  | 230_21:11:40 |
| 230_21:11:40 | 0 | DFMS | Mode            | 502           | 0   | 0   | 1280  | 230_21:33:00 |
| 230_21:33:00 | 0 | DFMS | Mode            | 562           | 0   | 0   | 1900  | 230_22:04:40 |
| 230_22:04:40 | 0 | DFMS | Mode            | 564           | 0   | 0   | 1900  | 230_22:36:20 |
| 230_22:36:20 | 0 | DFMS | Mode            | 566           | 0   | 0   | 2700  | 230_23:21:20 |
| 230_23:21:20 | 0 | DFMS | Mode            | 502           | 0   | 0   | 1280  | 230_23:42:40 |
| 230_23:42:40 | 0 | DFMS | Mode            | 562           | 0   | 0   | 1900  | 231_00:14:20 |
| 231_00:14:20 | 0 | DFMS | Mode            | 502           | 0   | 0   | 1280  | 231_00:35:40 |
| 231_00:35:40 | 0 | DFMS | Mode            | 562           | 0   | 0   | 1900  | 231_01:07:20 |
| 231_01:07:20 | 0 | DFMS | Mode            | 564           | 0   | 0   | 1900  | 231_01:39:00 |
| 231_01:39:00 | 0 | DFMS | Mode            | 566           | 0   | 0   | 2700  | 231_02:24:00 |
| 231_02:24:00 | 0 | DFMS | Mode            | 502           | 0   | 0   | 1280  | 231_02:45:20 |
| 231_02:45:20 | 0 | DFMS | Mode            | 562           | 0   | 0   | 1900  | 231_03:17:00 |
| 231_03:17:00 | 0 | DFMS | Mode            | 564           | 0   | 0   | 1900  | 231_03:48:40 |
| 231_03:48:40 | 0 | DFMS | Mode            | 566           | 0   | 0   | 2700  | 231_04:33:40 |
| 231_04:33:40 | 0 | DFMS | Mode            | 502           | 0   | 0   | 1280  | 231_04:55:00 |
| 231_04:55:00 | 0 | DFMS | Mode            | 562           | 0   | 0   | 1900  | 231_05:26:40 |

Block 10

|   |  |        |                 |               |    |   |       |              |         |
|---|--|--------|-----------------|---------------|----|---|-------|--------------|---------|
| 231_05:26:40  | 0  | DFMS   | Mode            | 502           | 0  | 0 | 1280  | 231_05:48:00 |         |
| 231_05:31:20  | 0  | RTOF   | Flight sequence | ARNS041A_RTOF | 25 | 0 | 60    | 231_05:32:20 |         |
| 231_05:32:20  | 0  | RTOF   | Mode            | 521           | 14 | 0 | 3200  | 231_06:25:40 |         |
| 231_05:48:00  | 0  | DFMS   | Mode            | 562           | 0  | 0 | 2020  | 231_06:21:40 |         |
| 231_06:25:40  | 0  | ROSINA | Flight sequence | ZRNP2002      | 0  | 0 | 240   | 231_06:29:40 |         |
| 231_06:29:40  | 0  | RTOF   | Flight sequence | ARNF014A      | 0  | 0 | 120   | 231_06:31:40 |         |
| 231_06:36:30  | 1  | COPS   | Flight sequence | ARNF016B      | 0  | 0 | 60    | 231_06:37:30 |         |
| 231_06:37:30  | 0  | COPS   | Mode            | 0             | 0  | 0 | 150   | 231_06:40:00 |         |
| <b>MOCM 18/08/2016 06:40:00 - 18/08/2016 11:00:00</b> |  |        |                 |               |    |   |       |              |         |
| 231_11:00:00  | 1  | COPS   | Flight sequence | ARNF015A      | 0  | 0 | 120   | 231_11:02:00 |         |
| 231_11:02:00  | 0  | DFMS   | Flight sequence | ARNF003A      | 0  | 0 | 120   | 231_11:04:00 |         |
| 231_11:04:00  | 0  | COPS   | Mode            | 332           | 1  | 0 | 60    | 231_11:05:00 |         |
| 231_11:05:00  | 0  | DFMS   | Mode            | 502           | 0  | 0 | 2020  | 231_11:38:40 |         |
| 231_11:38:40  | 0  | DFMS   | Mode            | 562           | 0  | 0 | 1900  | 231_12:10:20 |         |
| 231_12:04:35  | 1  | COPS   | Flight sequence | ARNF016A      | 0  | 0 | 60    | 231_12:05:35 |         |
| 231_12:10:20  | 0  | DFMS   | Mode            | 564           | 0  | 0 | 1900  | 231_12:42:00 |         |
| 231_12:42:00  | 0  | DFMS   | Mode            | 566           | 0  | 0 | 2700  | 231_13:27:00 |         |
| 231_13:27:00  | 0  | DFMS   | Mode            | 502           | 0  | 0 | 1280  | 231_13:48:20 |         |
| 231_13:48:20  | 0  | DFMS   | Mode            | 562           | 0  | 0 | 1900  | 231_14:20:00 |         |
| 231_14:20:00  | 0  | DFMS   | Mode            | 502           | 0  | 0 | 1280  | 231_14:41:20 |         |
| 231_14:40:00  | 1  | RTOF   | Flight sequence | ARNF004A      | 0  | 0 | 120   | 231_14:42:00 |         |
| 231_14:42:00  | 0  | RTOF   | Flight sequence | ARNS041A_RTOF | 25 | 0 | 60    | 231_14:43:00 |         |
| 231_14:43:00  | 0  | RTOF   | Mode            | 521           | 15 | 9 | 34970 | 232_00:25:50 |         |
| 231_14:44:00  | 0  | DFMS   | Mode            | 562           | 0  | 0 | 1900  | 231_15:15:40 |         |
| 231_14:50:00  | 1  | ROSINA | Flight sequence | ARNF002A      | 0  | 0 | 220   | 231_14:53:40 | PDOP    |
| 231_14:52:07  | ALL SENSORS OFF (= 3x Events: PRO_SENOFF)                |        |                 |               |    |   |       |              |         |
| 231_15:15:40  | 0  | DFMS   | Mode            | 564           | 0  | 0 | 1900  | 231_15:47:20 | DFMS ON |
| 231_15:47:20  | 0  | DFMS   | Mode            | 566           | 0  | 0 | 2700  | 231_16:32:20 |         |
| 231_15:54:20  | RTOF ON + M521 ramping up                                |        |                 |               |    |   |       |              |         |
| 231_16:32:20  | 0  | DFMS   | Mode            | 502           | 0  | 0 | 1280  | 231_16:53:40 |         |
| 231_16:39:00  | 1  | COPS   | Mode            | 322           | 1  | 0 | 60    | 231_16:40:00 | PDOP    |
| 231_16:39:31  | Sensor Error: CM_P12V_NG                                 |        |                 |               |    |   |       |              |         |
| 231_17:02:35  | COPS M322 set (= Event: PRO_C_LEVEL + Event: PRO_C_MODE) |        |                 |               |    |   |       |              |         |
| 231_16:53:40  | 0  | DFMS   | Mode            | 562           | 0  | 0 | 1900  | 231_17:25:20 |         |
| 231_17:25:20  | 0  | DFMS   | Mode            | 502           | 0  | 0 | 1280  | 231_17:46:40 |         |

|   |   |      |                 |          |   |   |      |  |         |                                  |
|---|---|------|-----------------|----------|---|---|------|--|---------|----------------------------------|
| 231_17:46:40  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 231_18:18:20                           | Block 3 |                                  |
| 231_18:18:20  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 231_18:50:00                           |         |                                  |
| 231_18:50:00  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 231_19:35:00                           |         |                                  |
| 231_19:35:00  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 231_19:56:20                           |         |                                  |
| 231_19:56:20  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 231_20:28:00                           |         |                                  |
| 231_20:28:00  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 231_20:49:20                           |         |                                  |
| 231_20:49:20  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 231_21:21:00                           |         |                                  |
| 231_21:21:00  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 231_21:52:40                           |         |                                  |
| 231_21:52:40  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 231_22:37:40                           |         |                                  |
| 231_22:37:40  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 231_22:59:00                           |         |                                  |
| 231_22:59:00  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 231_23:30:40                           |         |                                  |
| 231_23:30:40  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 231_23:52:00                           |         |                                  |
| 231_23:52:00  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 232_00:23:40                           |         |                                  |
| 232_00:23:40  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 232_00:55:20                           |         |                                  |
| 232_00:25:50  | 0 | RTOF | Mode            | 4        | 0 | 0 | 240  | 232_00:29:50                           |         | Not executed as RTOF was delayed |
| 232_00:29:50  | 0 | RTOF | Flight sequence | ARNF014A | 0 | 0 | 120  | 232_00:31:50                           |         |                                  |
| 232_00:55:20  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 232_01:40:20                           |         |                                  |
| 232_01:40:20  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 232_02:01:40                           |         |                                  |
| 232_02:01:40  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 232_02:33:20                           |         |                                  |
| 232_02:33:20  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 232_02:54:40                           |         |                                  |
| 232_02:54:40  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 232_03:26:20                           |         |                                  |
| 232_03:26:20  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 232_03:58:00                           |         |                                  |
| 232_03:58:00  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 232_04:43:00                           |         |                                  |
| 232_04:43:00  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 232_05:04:20                           |         |                                  |
| 232_05:04:20  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 232_05:36:00                           |         |                                  |
| 232_05:36:00  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 232_05:57:20                           |         |                                  |
| 232_05:57:20  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 232_06:29:00                           |         |                                  |
| 232_06:29:00  | 0 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 232_06:29:10                           |         |                                  |
| 232_06:29:10  | 0 | DFMS | Mode            | 1        | 0 | 0 | 120  | 232_06:31:10                           |         |                                  |
| 232_06:36:30  | 1 | COPS | Flight sequence | ARNF016B | 0 | 0 | 60   | 232_06:37:30                           |         |                                  |
| 232_06:37:30  | 0 | COPS | Mode            | 0        | 0 | 0 | 150  | 232_06:40:00                           |         |                                  |
| <b>MOCM 19/08/2016 06:40:00 - 19/08/2016 11:06:30</b> |   |      |                 |          |   |   |      | Everything nominal starting this point |         |                                  |
| 232_11:06:30  | 1 | COPS | Mode            | 332      | 1 | 0 | 60   | 232_11:07:30                           |         |                                  |
| 232_11:07:30  | 1 | DFMS | Mode            | 502      | 0 | 0 | 1620 | 232_11:34:30                           |         |                                  |
| 232_11:08:30  | 1 | RTOF | Flight sequence | ARNF004A | 0 | 0 | 120  | 232_11:10:30                           | Block 6 |                                  |

|              |   |      |                 |               |    |    |       |              |
|--------------|---|------|-----------------|---------------|----|----|-------|--------------|
| 232_11:10:30 | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 40 | 0  | 60    | 232_11:11:30 |
| 232_11:11:30 | 0 | RTOF | Mode            | 521           | 15 | 16 | 58840 | 233_03:32:10 |
| 232_11:34:30 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 232_12:06:10 |
| 232_12:01:30 | 1 | COPS | Flight sequence | ARNF016A      | 0  | 0  | 60    | 232_12:02:30 |
| 232_12:06:10 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 232_12:37:50 |
| 232_12:37:50 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 232_13:22:50 |
| 232_13:22:50 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 232_13:44:10 |
| 232_13:44:10 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 232_14:15:50 |
| 232_14:15:50 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 232_14:37:10 |
| 232_14:37:10 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 232_15:08:50 |
| 232_15:08:50 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 232_15:40:30 |
| 232_15:40:30 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 232_16:25:30 |
| 232_16:25:30 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 232_16:46:50 |
| 232_16:46:50 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 232_17:18:30 |
| 232_17:18:30 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 232_17:39:50 |
| 232_17:39:50 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 232_18:11:30 |
| 232_18:11:30 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 232_18:43:10 |
| 232_18:43:10 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 232_19:28:10 |
| 232_19:28:10 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 232_19:49:30 |
| 232_19:49:30 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 232_20:21:10 |
| 232_20:21:10 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 232_20:42:30 |
| 232_20:42:30 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 232_21:14:10 |
| 232_21:14:10 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 232_21:45:50 |
| 232_21:45:50 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 232_22:30:50 |
| 232_22:30:50 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 232_22:52:10 |
| 232_22:52:10 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 232_23:23:50 |
| 232_23:23:50 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 232_23:45:10 |
| 232_23:45:10 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 233_00:16:50 |
| 233_00:16:50 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 233_00:48:30 |
| 233_00:48:30 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 233_01:33:30 |
| 233_01:33:30 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 233_01:54:50 |
| 233_01:54:50 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 233_02:26:30 |
| 233_02:26:30 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 233_02:47:50 |
| 233_02:47:50 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 233_03:19:30 |
| 233_03:19:30 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 233_03:51:10 |



|   |   |      |                 |               |    |   |      |              |
|---|---|------|-----------------|---------------|----|---|------|--------------|
| 233_03:32:10  | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 25 | 0 | 60   | 233_03:33:10 |
| 233_03:33:10  | 0 | RTOF | Mode            | 181           | 2  | 0 | 740  | 233_03:45:30 |
| 233_03:45:30  | 0 | RTOF | Mode            | 1             | 0  | 0 | 240  | 233_03:49:30 |
| 233_03:49:30  | 0 | RTOF | Flight sequence | ARNF014A      | 0  | 0 | 120  | 233_03:51:30 |
| 233_03:51:30  | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700 | 233_04:36:30 |
| 233_04:36:30  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280 | 233_04:57:50 |
| 233_04:57:50  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900 | 233_05:29:30 |
| 233_05:29:30  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280 | 233_05:50:50 |
| 233_05:50:50  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900 | 233_06:22:30 |
| 233_06:22:30  | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900 | 233_06:54:10 |
| 233_06:54:10  | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700 | 233_07:39:10 |
| 233_07:39:10  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280 | 233_08:00:30 |
| 233_08:00:30  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900 | 233_08:32:10 |
| 233_08:32:10  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280 | 233_08:53:30 |
| <b>MWOL 20/08/2016 08:45:00 - 20/08/2016 11:01:30</b> |   |      |                 |               |    |   |      |              |
| 233_08:53:30  | 0 | DFMS | Flight sequence | ARNS081B      | 0  | 0 | 10   | 233_08:53:40 |
| 233_08:53:40  | 0 | DFMS | Mode            | 1             | 0  | 0 | 120  | 233_08:55:40 |
| 233_09:00:00  | 1 | COPS | Flight sequence | ARNF016B      | 0  | 0 | 60   | 233_09:01:00 |
| 233_09:01:00  | 0 | COPS | Mode            | 0             | 0  | 0 | 150  | 233_09:03:30 |
| 233_09:03:30  | 0 | COPS | Mode            | 314           | 1  | 0 | 60   | 233_09:04:30 |
| 233_09:33:30  | 1 | COPS | Mode            | 0             | 0  | 0 | 150  | 233_09:36:00 |
| 233_09:36:00  | 0 | COPS | Mode            | 332           | 1  | 0 | 60   | 233_09:37:00 |
| 233_09:37:00  | 1 | DFMS | Mode            | 502           | 0  | 0 | 1620 | 233_10:04:00 |
| 233_10:04:00  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900 | 233_10:35:40 |
| 233_10:06:00  | 1 | COPS | Flight sequence | ARNF016A      | 0  | 0 | 60   | 233_10:07:00 |
| 233_10:35:40  | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900 | 233_11:07:20 |
| 233_11:07:20  | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700 | 233_11:52:20 |
| 233_11:52:20  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280 | 233_12:13:40 |
| 233_12:13:40  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900 | 233_12:45:20 |
| 233_12:45:20  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280 | 233_13:06:40 |
| 233_13:06:40  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900 | 233_13:38:20 |
| 233_13:38:20  | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900 | 233_14:10:00 |
| 233_14:10:00  | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700 | 233_14:55:00 |
| 233_14:55:00  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280 | 233_15:16:20 |
| 233_15:16:20  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900 | 233_15:48:00 |

|              |   |        |                 |               |    |    |       |              |  |
|--------------|---|--------|-----------------|---------------|----|----|-------|--------------|--|
| 233_15:48:00 | 0 | DFMS   | Mode            | 502           | 0  | 0  | 1280  | 233_16:09:20 |  |
| 233_16:09:20 | 0 | DFMS   | Mode            | 562           | 0  | 0  | 1900  | 233_16:41:00 |  |
| 233_16:41:00 | 0 | DFMS   | Mode            | 564           | 0  | 0  | 1900  | 233_17:12:40 |  |
| 233_16:55:00 | 1 | RTOF   | Flight sequence | ARNF004A      | 0  | 0  | 120   | 233_16:57:00 |  |
| 233_16:57:00 | 0 | RTOF   | Flight sequence | ARNS041A_RTOF | 40 | 0  | 60    | 233_16:58:00 |  |
| 233_16:58:00 | 0 | RTOF   | Mode            | 521           | 15 | 12 | 45200 | 234_05:31:20 |  |
| 233_17:12:40 | 0 | DFMS   | Mode            | 566           | 0  | 0  | 2700  | 233_17:57:40 |  |
| 233_17:57:40 | 0 | DFMS   | Mode            | 502           | 0  | 0  | 1280  | 233_18:19:00 |  |
| 233_18:19:00 | 0 | DFMS   | Mode            | 562           | 0  | 0  | 1900  | 233_18:50:40 |  |
| 233_18:50:40 | 0 | DFMS   | Mode            | 502           | 0  | 0  | 1280  | 233_19:12:00 |  |
| 233_19:12:00 | 0 | DFMS   | Mode            | 562           | 0  | 0  | 1900  | 233_19:43:40 |  |
| 233_19:43:40 | 0 | DFMS   | Mode            | 564           | 0  | 0  | 1900  | 233_20:15:20 |  |
| 233_20:15:20 | 0 | DFMS   | Mode            | 566           | 0  | 0  | 2700  | 233_21:00:20 |  |
| 233_21:00:20 | 0 | DFMS   | Mode            | 502           | 0  | 0  | 1280  | 233_21:21:40 |  |
| 233_21:21:40 | 0 | DFMS   | Mode            | 562           | 0  | 0  | 1900  | 233_21:53:20 |  |
| 233_21:53:20 | 0 | DFMS   | Mode            | 564           | 0  | 0  | 1900  | 233_22:25:00 |  |
| 233_22:25:00 | 0 | DFMS   | Mode            | 566           | 0  | 0  | 2700  | 233_23:10:00 |  |
| 233_23:10:00 | 0 | DFMS   | Mode            | 502           | 0  | 0  | 1280  | 233_23:31:20 |  |
| 233_23:31:20 | 0 | DFMS   | Mode            | 562           | 0  | 0  | 1900  | 234_00:03:00 |  |
| 234_00:03:00 | 0 | DFMS   | Mode            | 502           | 0  | 0  | 1280  | 234_00:24:20 |  |
| 234_00:24:20 | 0 | DFMS   | Mode            | 562           | 0  | 0  | 1900  | 234_00:56:00 |  |
| 234_00:56:00 | 0 | DFMS   | Mode            | 564           | 0  | 0  | 1900  | 234_01:27:40 |  |
| 234_01:27:40 | 0 | DFMS   | Mode            | 566           | 0  | 0  | 2700  | 234_02:12:40 |  |
| 234_02:12:40 | 0 | DFMS   | Mode            | 502           | 0  | 0  | 1280  | 234_02:34:00 |  |
| 234_02:34:00 | 0 | DFMS   | Mode            | 562           | 0  | 0  | 2020  | 234_03:07:40 |  |
| 234_03:07:40 | 0 | DFMS   | Mode            | 502           | 0  | 0  | 1400  | 234_03:31:00 |  |
| 234_03:31:00 | 0 | DFMS   | Mode            | 562           | 0  | 0  | 1900  | 234_04:02:40 |  |
| 234_04:02:40 | 0 | DFMS   | Mode            | 564           | 0  | 0  | 1900  | 234_04:34:20 |  |
| 234_04:34:20 | 0 | DFMS   | Mode            | 566           | 0  | 0  | 2700  | 234_05:19:20 |  |
| 234_05:19:20 | 0 | DFMS   | Mode            | 502           | 0  | 0  | 1280  | 234_05:40:40 |  |
| 234_05:31:20 | 0 | RTOF   | Flight sequence | ARNS041A_RTOF | 25 | 0  | 60    | 234_05:32:20 |  |
| 234_05:32:20 | 0 | RTOF   | Mode            | 521           | 14 | 0  | 3200  | 234_06:25:40 |  |
| 234_05:40:40 | 0 | DFMS   | Mode            | 562           | 0  | 0  | 1900  | 234_06:12:20 |  |
| 234_06:30:00 | 1 | ROSINA | Flight sequence | ZRNP2002      | 0  | 0  | 240   | 234_06:34:00 |  |
| 234_06:34:00 | 0 | RTOF   | Flight sequence | ARNF014A      | 0  | 0  | 120   | 234_06:36:00 |  |

Block 10

|   |   |      |                 |          |   |   |     |              |
|---|---|------|-----------------|----------|---|---|-----|--------------|
| 234_06:36:00  | 0 | COPS | Flight sequence | ARNF016B | 0 | 0 | 60  | 234_06:37:00 |
| 234_06:37:00  | 0 | COPS | Mode            | 0        | 0 | 0 | 150 | 234_06:39:30 |
| <b>MOCM 21/08/2016 06:40:00 - 21/08/2016 11:00:00</b> |   |      |                 |          |   |   |     |              |

## STP123

| Start time  | Set Time | Instrument | Mode/Sequence   | Mode/Sequence number | Cycle number | Repetition | Duration [s] | Stop time    |
|---|----------|------------|-----------------|----------------------|--------------|------------|--------------|--------------|
| <b>MOCM 21/08/2016 06:40:00 - 21/08/2016 11:00:00</b> |          |            |                 |                      |              |            |              |              |
| 234_11:00:00  | 1        | COPS       | Mode            | 332                  | 1            | 0          | 60           | 234_11:01:00 |
| 234_11:01:00  | 1        | DFMS       | Mode            | 502                  | 0            | 0          | 1620         | 234_11:28:00 |
| 234_11:28:00  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 234_11:59:40 |
| 234_11:55:00  | 1        | COPS       | Flight sequence | ARNF016A             | 0            | 0          | 60           | 234_11:56:00 |
| 234_11:59:40  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 234_12:21:00 |
| 234_12:21:00  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 234_12:52:40 |
| 234_12:52:40  | 0        | DFMS       | Mode            | 564                  | 0            | 0          | 1900         | 234_13:24:20 |
| 234_13:24:20  | 0        | DFMS       | Mode            | 566                  | 0            | 0          | 2700         | 234_14:09:20 |
| 234_14:09:20  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 234_14:30:40 |
| 234_14:30:40  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 234_15:02:20 |
| 234_14:40:00  | 1        | RTOF       | Flight sequence | ARNF004A             | 0            | 0          | 120          | 234_14:42:00 |
| 234_14:42:00  | 0        | RTOF       | Flight sequence | ARNS041A_RTOF        | 25           | 0          | 60           | 234_14:43:00 |
| 234_14:43:00  | 0        | RTOF       | Mode            | 521                  | 13           | 13         | 42730        | 235_02:35:10 |
| 234_15:02:20  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 234_15:23:40 |
| 234_15:23:40  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 234_15:55:20 |
| 234_15:55:20  | 0        | DFMS       | Mode            | 564                  | 0            | 0          | 1900         | 234_16:27:00 |
| 234_16:27:00  | 0        | DFMS       | Mode            | 566                  | 0            | 0          | 2700         | 234_17:12:00 |
| 234_17:12:00  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 234_17:33:20 |
| 234_17:33:20  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 234_18:05:00 |
| 234_18:05:00  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 234_18:26:20 |
| 234_18:26:20  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 234_18:58:00 |
| 234_18:58:00  | 0        | DFMS       | Mode            | 564                  | 0            | 0          | 1900         | 234_19:29:40 |
| 234_19:29:40  | 0        | DFMS       | Mode            | 566                  | 0            | 0          | 2700         | 234_20:14:40 |
| 234_20:14:40  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 234_20:36:00 |
| 234_20:36:00  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 234_21:07:40 |
| 234_21:07:40  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 234_21:29:00 |

COPS  
Science  
On

RTOF ON &  
Measuring  
Block 3

|   |   |      |                 |          |   |   |      |              |
|---|---|------|-----------------|----------|---|---|------|--------------|
| 234_21:29:00  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 234_22:00:40 |
| 234_22:00:40  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 234_22:32:20 |
| 234_22:32:20  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 234_23:17:20 |
| 234_23:17:20  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 234_23:38:40 |
| 234_23:38:40  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 235_00:10:20 |
| 235_00:10:20  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 235_00:31:40 |
| 235_00:31:40  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 235_01:03:20 |
| 235_01:03:20  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 235_01:35:00 |
| 235_01:35:00  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 235_02:20:00 |
| 235_02:20:00  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 235_02:41:20 |
| 235_02:35:10  | 0 | RTOF | Mode            | 1        | 0 | 0 | 240  | 235_02:39:10 |
| 235_03:00:00  | 1 | RTOF | Flight sequence | ARNF014A | 0 | 0 | 120  | 235_03:02:00 |
| 235_03:02:00  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 235_03:33:40 |
| 235_03:33:40  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 235_03:55:00 |
| 235_03:55:00  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 235_04:26:40 |
| 235_04:26:40  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 235_04:58:20 |
| 235_04:58:20  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 235_05:43:20 |
| 235_05:43:20  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 235_06:04:40 |
| 235_06:04:40  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 235_06:36:20 |
| 235_06:36:20  | 0 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 235_06:36:30 |
| 235_06:36:30  | 0 | DFMS | Mode            | 1        | 0 | 0 | 120  | 235_06:38:30 |
| 235_06:37:30  | 0 | COPS | Flight sequence | ARNF016B | 0 | 0 | 60   | 235_06:38:30 |
| 235_06:38:30  | 0 | COPS | Mode            | 0        | 0 | 0 | 150  | 235_06:41:00 |
| <b>MOCM 22/08/2016 06:40:00 - 22/08/2016 11:06:30</b> |   |      |                 |          |   |   |      |              |
| 235_11:06:30  | 1 | COPS | Mode            | 332      | 1 | 0 | 60   | 235_11:07:30 |
| 235_11:07:30  | 1 | DFMS | Mode            | 502      | 0 | 0 | 1620 | 235_11:34:30 |
| 235_11:34:30  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 235_12:06:10 |
| 235_12:01:30  | 1 | COPS | Flight sequence | ARNF016A | 0 | 0 | 60   | 235_12:02:30 |
| 235_12:06:10  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 235_12:37:50 |
| 235_12:37:50  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 235_13:22:50 |
| 235_13:22:50  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 235_13:44:10 |
| 235_13:44:10  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 235_14:15:50 |
| 235_14:15:50  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 235_14:37:10 |
| 235_14:37:10  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 235_15:08:50 |
| 235_15:08:50  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 235_15:40:30 |

**COPS  
Science  
On**

|              |   |      |      |     |   |   |      |              |
|--------------|---|------|------|-----|---|---|------|--------------|
| 235_15:40:30 | 0 | DFMS | Mode | 566 | 0 | 0 | 2700 | 235_16:25:30 |
| 235_16:25:30 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 235_16:46:50 |
| 235_16:46:50 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 235_17:18:30 |
| 235_17:18:30 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 235_17:39:50 |
| 235_17:39:50 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 235_18:11:30 |
| 235_18:11:30 | 0 | DFMS | Mode | 564 | 0 | 0 | 1900 | 235_18:43:10 |
| 235_18:43:10 | 0 | DFMS | Mode | 566 | 0 | 0 | 2700 | 235_19:28:10 |
| 235_19:28:10 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 235_19:49:30 |
| 235_19:49:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 235_20:21:10 |
| 235_20:21:10 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 235_20:42:30 |
| 235_20:42:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 235_21:14:10 |
| 235_21:14:10 | 0 | DFMS | Mode | 564 | 0 | 0 | 1900 | 235_21:45:50 |
| 235_21:45:50 | 0 | DFMS | Mode | 566 | 0 | 0 | 2700 | 235_22:30:50 |
| 235_22:30:50 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 235_22:52:10 |
| 235_22:52:10 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 235_23:23:50 |
| 235_23:23:50 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 235_23:45:10 |
| 235_23:45:10 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 236_00:16:50 |
| 236_00:16:50 | 0 | DFMS | Mode | 564 | 0 | 0 | 1900 | 236_00:48:30 |
| 236_00:48:30 | 0 | DFMS | Mode | 566 | 0 | 0 | 2700 | 236_01:33:30 |
| 236_01:33:30 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 236_01:54:50 |
| 236_01:54:50 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 236_02:26:30 |
| 236_02:26:30 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 236_02:47:50 |
| 236_02:47:50 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 236_03:19:30 |
| 236_03:19:30 | 0 | DFMS | Mode | 564 | 0 | 0 | 1900 | 236_03:51:10 |
| 236_03:51:10 | 0 | DFMS | Mode | 566 | 0 | 0 | 2700 | 236_04:36:10 |
| 236_04:36:10 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 236_04:57:30 |
| 236_04:57:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 236_05:29:10 |
| 236_05:29:10 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 236_05:50:30 |
| 236_05:50:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 236_06:22:10 |
| 236_06:22:10 | 0 | DFMS | Mode | 564 | 0 | 0 | 1900 | 236_06:53:50 |
| 236_06:53:50 | 0 | DFMS | Mode | 566 | 0 | 0 | 2700 | 236_07:38:50 |
| 236_07:38:50 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 236_08:00:10 |
| 236_08:00:10 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 236_08:31:50 |
| 236_08:31:50 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 236_08:53:10 |

**MWOL 23/08/2016 08:45:00 - 23/08/2016 11:01:30**

|              |   |      |                 |               |    |    |       |              |
|--------------|---|------|-----------------|---------------|----|----|-------|--------------|
| 236_08:53:10 | 0 | DFMS | Flight sequence | ARNS081B      | 0  | 0  | 10    | 236_08:53:20 |
| 236_08:53:20 | 0 | DFMS | Mode            | 1             | 0  | 0  | 120   | 236_08:55:20 |
| 236_08:55:20 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1620  | 236_09:22:20 |
| 236_09:22:20 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 236_09:54:00 |
| 236_09:54:00 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 236_10:25:40 |
| 236_10:25:40 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 236_11:10:40 |
| 236_11:10:40 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 236_11:32:00 |
| 236_11:32:00 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 236_12:03:40 |
| 236_12:03:40 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 236_12:25:00 |
| 236_12:25:00 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 236_12:56:40 |
| 236_12:56:40 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 236_13:28:20 |
| 236_13:28:20 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 236_14:13:20 |
| 236_14:13:20 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 236_14:34:40 |
| 236_14:34:40 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 236_15:06:20 |
| 236_15:06:20 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 236_15:27:40 |
| 236_15:27:40 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 236_15:59:20 |
| 236_15:59:20 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 236_16:31:00 |
| 236_16:31:00 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 236_17:16:00 |
| 236_16:55:00 | 1 | RTOF | Flight sequence | ARNF004A      | 0  | 0  | 120   | 236_16:57:00 |
| 236_16:57:00 | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 25 | 0  | 60    | 236_16:58:00 |
| 236_16:58:00 | 0 | RTOF | Mode            | 521           | 15 | 12 | 45200 | 237_05:31:20 |
| 236_17:16:00 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 236_17:37:20 |
| 236_17:37:20 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 236_18:09:00 |
| 236_18:09:00 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 236_18:30:20 |
| 236_18:30:20 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 236_19:02:00 |
| 236_19:02:00 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 236_19:33:40 |
| 236_19:33:40 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 236_20:18:40 |
| 236_20:18:40 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 236_20:40:00 |
| 236_20:40:00 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 236_21:11:40 |
| 236_21:11:40 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 236_21:33:00 |
| 236_21:33:00 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 236_22:04:40 |
| 236_22:04:40 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 236_22:36:20 |
| 236_22:36:20 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 236_23:21:20 |
| 236_23:21:20 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 236_23:42:40 |
| 236_23:42:40 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 237_00:14:20 |

**RTOF ON &  
Measuring  
Block 10**

|   |   |        |                 |               |    |    |       |              |
|---|---|--------|-----------------|---------------|----|----|-------|--------------|
| 237_00:14:20  | 0 | DFMS   | Mode            | 502           | 0  | 0  | 1280  | 237_00:35:40 |
| 237_00:35:40  | 0 | DFMS   | Mode            | 562           | 0  | 0  | 1900  | 237_01:07:20 |
| 237_01:07:20  | 0 | DFMS   | Mode            | 564           | 0  | 0  | 1900  | 237_01:39:00 |
| 237_01:39:00  | 0 | DFMS   | Mode            | 566           | 0  | 0  | 2700  | 237_02:24:00 |
| 237_02:24:00  | 0 | DFMS   | Mode            | 502           | 0  | 0  | 1280  | 237_02:45:20 |
| 237_02:45:20  | 0 | DFMS   | Mode            | 562           | 0  | 0  | 1900  | 237_03:17:00 |
| 237_03:17:00  | 0 | DFMS   | Mode            | 564           | 0  | 0  | 1900  | 237_03:48:40 |
| 237_03:48:40  | 0 | DFMS   | Mode            | 566           | 0  | 0  | 2700  | 237_04:33:40 |
| 237_04:33:40  | 0 | DFMS   | Mode            | 502           | 0  | 0  | 1280  | 237_04:55:00 |
| 237_04:55:00  | 0 | DFMS   | Mode            | 562           | 0  | 0  | 1900  | 237_05:26:40 |
| 237_05:26:40  | 0 | DFMS   | Mode            | 502           | 0  | 0  | 1280  | 237_05:48:00 |
| 237_05:31:20  | 0 | RTOF   | Mode            | 521           | 14 | 0  | 3200  | 237_06:24:40 |
| 237_05:48:00  | 0 | DFMS   | Mode            | 562           | 0  | 0  | 1900  | 237_06:19:40 |
| 237_06:29:00  | 1 | ROSINA | Flight sequence | ZRNP2002      | 0  | 0  | 240   | 237_06:33:00 |
| 237_06:33:00  | 0 | RTOF   | Flight sequence | ARNF014A      | 0  | 0  | 120   | 237_06:35:00 |
| 237_06:36:30  | 1 | COPS   | Flight sequence | ARNF016B      | 0  | 0  | 60    | 237_06:37:30 |
| 237_06:37:30  | 0 | COPS   | Mode            | 0             | 0  | 0  | 150   | 237_06:40:00 |
| <b>MOCM 24/08/2016 06:40:00 - 24/08/2016 11:00:00</b> |   |        |                 |               |    |    |       |              |
| 237_11:00:00  | 1 | DFMS   | Flight sequence | ARNF014B      | 0  | 0  | 125   | 237_11:02:05 |
| 237_11:02:05  | 0 | COPS   | Flight sequence | ARNF011A      | 0  | 0  | 210   | 237_11:05:35 |
| 237_11:05:35  | 0 | COPS   | Flight sequence | ARNF015A      | 0  | 0  | 120   | 237_11:07:35 |
| 237_11:07:35  | 0 | DFMS   | Flight sequence | ARNF003A      | 0  | 0  | 120   | 237_11:09:35 |
| 237_11:09:35  | 0 | COPS   | Mode            | 332           | 1  | 0  | 60    | 237_11:10:35 |
| 237_11:10:35  | 0 | DFMS   | Mode            | 502           | 0  | 0  | 1620  | 237_11:37:35 |
| 237_11:37:35  | 0 | DFMS   | Mode            | 562           | 0  | 0  | 1900  | 237_12:09:15 |
| 237_12:04:35  | 1 | COPS   | Flight sequence | ARNF016A      | 0  | 0  | 60    | 237_12:05:35 |
| 237_12:09:15  | 0 | DFMS   | Mode            | 564           | 0  | 0  | 1900  | 237_12:40:55 |
| 237_12:40:55  | 0 | DFMS   | Mode            | 566           | 0  | 0  | 2700  | 237_13:25:55 |
| 237_13:25:55  | 0 | DFMS   | Mode            | 502           | 0  | 0  | 1280  | 237_13:47:15 |
| 237_13:47:15  | 0 | DFMS   | Mode            | 562           | 0  | 0  | 1900  | 237_14:18:55 |
| 237_14:18:55  | 0 | DFMS   | Mode            | 502           | 0  | 0  | 1280  | 237_14:40:15 |
| 237_14:40:00  | 1 | RTOF   | Flight sequence | ARNF004A      | 0  | 0  | 120   | 237_14:42:00 |
| 237_14:42:00  | 0 | RTOF   | Flight sequence | ARNS041A_RTOF | 25 | 0  | 60    | 237_14:43:00 |
| 237_14:43:00  | 0 | RTOF   | Mode            | 521           | 13 | 13 | 42780 | 238_02:36:00 |
| 237_14:44:00  | 0 | DFMS   | Mode            | 562           | 0  | 0  | 1900  | 237_15:15:40 |

COPS  
Science  
On

RTOF ON &  
Measuring  
Block 3

|              |   |      |                 |          |   |   |      |              |
|--------------|---|------|-----------------|----------|---|---|------|--------------|
| 237_15:15:40 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 237_15:47:20 |
| 237_15:47:20 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 237_16:32:20 |
| 237_16:32:20 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 237_16:53:40 |
| 237_16:53:40 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 237_17:25:20 |
| 237_17:25:20 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 237_17:46:40 |
| 237_17:46:40 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 237_18:18:20 |
| 237_18:18:20 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 237_18:50:00 |
| 237_18:50:00 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 237_19:35:00 |
| 237_19:35:00 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 237_19:56:20 |
| 237_19:56:20 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 237_20:28:00 |
| 237_20:28:00 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 237_20:49:20 |
| 237_20:49:20 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 237_21:21:00 |
| 237_21:21:00 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 237_21:52:40 |
| 237_21:52:40 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 237_22:37:40 |
| 237_22:37:40 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 237_22:59:00 |
| 237_22:59:00 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 237_23:30:40 |
| 237_23:30:40 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 237_23:52:00 |
| 237_23:52:00 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 238_00:23:40 |
| 238_00:23:40 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 238_00:55:20 |
| 238_00:55:20 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 238_01:40:20 |
| 238_01:40:20 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 238_02:01:40 |
| 238_02:01:40 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 238_02:33:20 |
| 238_02:33:20 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 238_02:54:40 |
| 238_02:36:00 | 0 | RTOF | Mode            | 181      | 2 | 0 | 740  | 238_02:48:20 |
| 238_02:48:20 | 0 | RTOF | Mode            | 1        | 0 | 0 | 240  | 238_02:52:20 |
| 238_03:00:00 | 1 | RTOF | Flight sequence | ARNF014A | 0 | 0 | 120  | 238_03:02:00 |
| 238_03:02:00 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 238_03:33:40 |
| 238_03:33:40 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 238_04:05:20 |
| 238_04:05:20 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 238_04:50:20 |
| 238_04:50:20 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 238_05:11:40 |
| 238_05:11:40 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 238_05:43:20 |
| 238_05:43:20 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 238_06:04:40 |
| 238_06:04:40 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 238_06:36:20 |
| 238_06:36:20 | 0 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 238_06:36:30 |
| 238_06:36:30 | 0 | DFMS | Mode            | 1        | 0 | 0 | 120  | 238_06:38:30 |



|   |   |      |                 |          |   |   |      |              |
|---|---|------|-----------------|----------|---|---|------|--------------|
| 238_06:37:30  | 0 | COPS | Flight sequence | ARNF016B | 0 | 0 | 60   | 238_06:38:30 |
| 238_06:38:30  | 0 | COPS | Mode            | 0        | 0 | 0 | 150  | 238_06:41:00 |
| <b>MOCM 25/08/2016 06:40:00 - 25/08/2016 11:06:30</b> |   |      |                 |          |   |   |      |              |
| 238_11:06:30  | 1 | COPS | Mode            | 332      | 1 | 0 | 60   | 238_11:07:30 |
| 238_11:07:30  | 1 | DFMS | Mode            | 502      | 0 | 0 | 1620 | 238_11:34:30 |
| 238_11:34:30  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 238_12:06:10 |
| 238_12:01:30  | 1 | COPS | Flight sequence | ARNF016A | 0 | 0 | 60   | 238_12:02:30 |
| 238_12:06:10  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 238_12:37:50 |
| 238_12:37:50  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 238_13:22:50 |
| 238_13:22:50  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 238_13:44:10 |
| 238_13:44:10  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 238_14:15:50 |
| 238_14:15:50  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 238_14:37:10 |
| 238_14:37:10  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 238_15:08:50 |
| 238_15:08:50  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 238_15:40:30 |
| 238_15:40:30  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 238_16:25:30 |
| 238_16:25:30  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 238_16:46:50 |
| 238_16:46:50  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 238_17:18:30 |
| 238_17:18:30  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 238_17:39:50 |
| 238_17:39:50  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 238_18:11:30 |
| 238_18:11:30  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 238_18:43:10 |
| 238_18:43:10  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 238_19:28:10 |
| 238_19:28:10  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 238_19:49:30 |
| 238_19:49:30  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 238_20:21:10 |
| 238_20:21:10  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 238_20:42:30 |
| 238_20:42:30  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 238_21:14:10 |
| 238_21:14:10  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 238_21:45:50 |
| 238_21:45:50  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 238_22:30:50 |
| 238_22:30:50  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 238_22:52:10 |
| 238_22:52:10  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 238_23:23:50 |
| 238_23:23:50  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 238_23:45:10 |
| 238_23:45:10  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 239_00:16:50 |
| 239_00:16:50  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 239_00:48:30 |
| 239_00:48:30  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 239_01:33:30 |
| 239_01:33:30  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 239_01:54:50 |
| 239_01:54:50  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 239_02:26:30 |

**COPS  
Science  
On**

|   |   |      |                 |          |   |   |      |              |
|---|---|------|-----------------|----------|---|---|------|--------------|
| 239_02:26:30  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 239_02:47:50 |
| 239_02:47:50  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 239_03:19:30 |
| 239_03:19:30  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 239_03:51:10 |
| 239_03:51:10  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 239_04:36:10 |
| 239_04:36:10  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 239_04:57:30 |
| 239_04:57:30  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 239_05:29:10 |
| 239_05:29:10  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 239_05:50:30 |
| 239_05:50:30  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 239_06:22:10 |
| 239_06:22:10  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 239_06:53:50 |
| 239_06:53:50  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 239_07:38:50 |
| 239_07:38:50  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 239_08:00:10 |
| 239_08:00:10  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 239_08:31:50 |
| 239_08:31:50  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 239_08:53:10 |
| <b>MWOL 26/08/2016 08:45:00 - 26/08/2016 11:01:30</b> |   |      |                 |          |   |   |      |              |
| 239_08:53:10  | 0 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 239_08:53:20 |
| 239_08:53:20  | 0 | DFMS | Mode            | 1        | 0 | 0 | 120  | 239_08:55:20 |
| 239_08:55:20  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1620 | 239_09:22:20 |
| 239_09:22:20  | 0 | DFMS | Mode            | 562      | 0 | 0 | 2020 | 239_09:56:00 |
| 239_09:56:00  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 239_10:27:40 |
| 239_10:27:40  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 239_11:12:40 |
| 239_11:12:40  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 239_11:34:00 |
| 239_11:34:00  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 239_12:05:40 |
| 239_12:05:40  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 239_12:27:00 |
| 239_12:27:00  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 239_12:58:40 |
| 239_12:58:40  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 239_13:30:20 |
| 239_13:30:20  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 239_14:15:20 |
| 239_14:15:20  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 239_14:36:40 |
| 239_14:36:40  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 239_15:08:20 |
| 239_15:08:20  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 239_15:29:40 |
| 239_15:29:40  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 239_16:01:20 |
| 239_16:01:20  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 239_16:33:00 |
| 239_16:33:00  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 239_17:18:00 |
| 239_17:18:00  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 239_17:39:20 |
| 239_17:39:20  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 239_18:11:00 |
| 239_18:00:00  | 1 | RTOF | Flight sequence | ARNF004A | 0 | 0 | 120  | 239_18:02:00 |

RTOF ON &

|   |   |        |                 |               |    |    |       |              |                   |
|---|---|--------|-----------------|---------------|----|----|-------|--------------|-------------------|
| 239_18:02:00  | 0 | RTOF   | Flight sequence | ARNS041A_RTOF | 25 | 0  | 60    | 239_18:03:00 | Measuring Block 3 |
| 239_18:03:00  | 0 | RTOF   | Mode            | 521           | 15 | 12 | 45200 | 240_06:36:20 |                   |
| 239_18:11:00  | 0 | DFMS   | Mode            | 502           | 0  | 0  | 1280  | 239_18:32:20 |                   |
| 239_18:32:20  | 0 | DFMS   | Mode            | 562           | 0  | 0  | 2020  | 239_19:06:00 |                   |
| 239_19:06:00  | 0 | DFMS   | Mode            | 564           | 0  | 0  | 1900  | 239_19:37:40 |                   |
| 239_19:37:40  | 0 | DFMS   | Mode            | 566           | 0  | 0  | 2700  | 239_20:22:40 |                   |
| 239_20:22:40  | 0 | DFMS   | Mode            | 502           | 0  | 0  | 1280  | 239_20:44:00 |                   |
| 239_20:44:00  | 0 | DFMS   | Mode            | 562           | 0  | 0  | 1900  | 239_21:15:40 |                   |
| 239_21:15:40  | 0 | DFMS   | Mode            | 564           | 0  | 0  | 1900  | 239_21:47:20 |                   |
| 239_21:47:20  | 0 | DFMS   | Mode            | 566           | 0  | 0  | 2700  | 239_22:32:20 |                   |
| 239_22:32:20  | 0 | DFMS   | Mode            | 502           | 0  | 0  | 1280  | 239_22:53:40 |                   |
| 239_22:53:40  | 0 | DFMS   | Mode            | 562           | 0  | 0  | 1900  | 239_23:25:20 |                   |
| 239_23:25:20  | 0 | DFMS   | Mode            | 502           | 0  | 0  | 1280  | 239_23:46:40 |                   |
| 239_23:46:40  | 0 | DFMS   | Mode            | 562           | 0  | 0  | 1900  | 240_00:18:20 |                   |
| 240_00:18:20  | 0 | DFMS   | Mode            | 564           | 0  | 0  | 1900  | 240_00:50:00 |                   |
| 240_00:50:00  | 0 | DFMS   | Mode            | 566           | 0  | 0  | 2700  | 240_01:35:00 |                   |
| 240_01:35:00  | 0 | DFMS   | Mode            | 502           | 0  | 0  | 1280  | 240_01:56:20 |                   |
| 240_01:56:20  | 0 | DFMS   | Mode            | 562           | 0  | 0  | 1900  | 240_02:28:00 |                   |
| 240_02:28:00  | 0 | DFMS   | Mode            | 502           | 0  | 0  | 1280  | 240_02:49:20 |                   |
| 240_02:49:20  | 0 | DFMS   | Mode            | 562           | 0  | 0  | 1900  | 240_03:21:00 |                   |
| 240_03:21:00  | 0 | DFMS   | Mode            | 564           | 0  | 0  | 1900  | 240_03:52:40 |                   |
| 240_03:52:40  | 0 | DFMS   | Mode            | 566           | 0  | 0  | 2700  | 240_04:37:40 |                   |
| 240_04:37:40  | 0 | DFMS   | Mode            | 502           | 0  | 0  | 1280  | 240_04:59:00 |                   |
| 240_04:59:00  | 0 | DFMS   | Mode            | 562           | 0  | 0  | 1900  | 240_05:30:40 |                   |
| 240_05:30:40  | 0 | DFMS   | Mode            | 502           | 0  | 0  | 1280  | 240_05:52:00 |                   |
| 240_05:52:00  | 0 | DFMS   | Mode            | 562           | 0  | 0  | 1900  | 240_06:23:40 |                   |
| 240_06:36:20  | 0 | ROSINA | Flight sequence | ZRNP2002      | 0  | 0  | 240   | 240_06:40:20 |                   |
| <b>MOCM 27/08/2016 06:40:00 - 27/08/2016 11:00:00</b> |   |        |                 |               |    |    |       |              |                   |
| 240_06:40:20  | 0 | RTOF   | Flight sequence | ARNF014A      | 0  | 0  | 120   | 240_06:42:20 |                   |
| 240_06:42:20  | 0 | COPS   | Flight sequence | ARNF016B      | 0  | 0  | 60    | 240_06:43:20 |                   |
| 240_06:43:20  | 0 | COPS   | Mode            | 0             | 0  | 0  | 150   | 240_06:45:50 |                   |
| 240_11:00:00  | 1 | COPS   | Mode            | 332           | 1  | 0  | 60    | 240_11:01:00 |                   |
| 240_11:01:00  | 1 | DFMS   | Mode            | 502           | 0  | 0  | 1620  | 240_11:28:00 |                   |
| 240_11:28:00  | 0 | DFMS   | Mode            | 562           | 0  | 0  | 1900  | 240_11:59:40 |                   |
| 240_11:55:00  | 1 | COPS   | Flight sequence | ARNF016A      | 0  | 0  | 60    | 240_11:56:00 |                   |

COPS

|              |   |      |                 |               |    |    |       |              |                                    |
|--------------|---|------|-----------------|---------------|----|----|-------|--------------|------------------------------------|
| 240_11:59:40 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 240_12:21:00 | Science<br>On                      |
| 240_12:21:00 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 240_12:52:40 |                                    |
| 240_12:52:40 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 240_13:24:20 |                                    |
| 240_13:24:20 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 240_14:09:20 |                                    |
| 240_14:09:20 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 240_14:30:40 |                                    |
| 240_14:30:40 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 240_15:02:20 |                                    |
| 240_14:40:00 | 1 | RTOF | Flight sequence | ARNF004A      | 0  | 0  | 120   | 240_14:42:00 |                                    |
| 240_14:42:00 | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 25 | 0  | 60    | 240_14:43:00 |                                    |
| 240_14:43:00 | 0 | RTOF | Mode            | 521           | 13 | 13 | 42780 | 241_02:36:00 |                                    |
| 240_15:02:20 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 240_15:23:40 |                                    |
| 240_15:23:40 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 240_15:55:20 |                                    |
| 240_15:55:20 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 240_16:27:00 |                                    |
| 240_16:27:00 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 240_17:12:00 |                                    |
| 240_17:12:00 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 240_17:33:20 |                                    |
| 240_17:33:20 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 240_18:05:00 |                                    |
| 240_18:05:00 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 240_18:26:20 |                                    |
| 240_18:26:20 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 240_18:58:00 |                                    |
| 240_18:58:00 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 240_19:29:40 |                                    |
| 240_19:29:40 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 240_20:14:40 |                                    |
| 240_20:14:40 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 240_20:36:00 |                                    |
| 240_20:36:00 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 240_21:07:40 |                                    |
| 240_21:07:40 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 240_21:29:00 |                                    |
| 240_21:29:00 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 240_22:00:40 |                                    |
| 240_22:00:40 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 240_22:32:20 |                                    |
| 240_22:32:20 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 240_23:17:20 |                                    |
| 240_23:17:20 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 240_23:38:40 |                                    |
| 240_23:38:40 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 241_00:10:20 |                                    |
| 241_00:10:20 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 241_00:31:40 |                                    |
| 241_00:31:40 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 241_01:03:20 |                                    |
| 241_01:03:20 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 241_01:35:00 |                                    |
| 241_01:35:00 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 241_02:20:00 |                                    |
| 241_02:20:00 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 241_02:41:20 |                                    |
| 241_02:36:00 | 0 | RTOF | Mode            | 1             | 0  | 0  | 240   | 241_02:40:00 |                                    |
| 241_02:41:20 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 241_03:13:00 |                                    |
| 241_03:00:00 | 1 | RTOF | Flight sequence | ARNF014A      | 0  | 0  | 120   | 241_03:02:00 | RTOF ON &<br>Measuring<br>Block 10 |

|   |   |      |                 |          |   |   |      |              |
|---|---|------|-----------------|----------|---|---|------|--------------|
| 241_03:13:00  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 241_03:34:20 |
| 241_03:34:20  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 241_04:06:00 |
| 241_04:06:00  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 241_04:37:40 |
| 241_04:37:40  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 241_05:22:40 |
| 241_05:22:40  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 241_05:44:00 |
| 241_05:44:00  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 241_06:15:40 |
| 241_06:15:40  | 0 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 241_06:15:50 |
| 241_06:15:50  | 0 | DFMS | Mode            | 1        | 0 | 0 | 120  | 241_06:17:50 |
| 241_06:35:00  | 1 | COPS | Flight sequence | ARNF016B | 0 | 0 | 60   | 241_06:36:00 |
| 241_06:36:00  | 0 | COPS | Mode            | 0        | 0 | 0 | 150  | 241_06:38:30 |
| <b>MOCM 28/08/2016 06:40:00 - 28/08/2016 11:06:30</b> |   |      |                 |          |   |   |      |              |
| 241_11:06:30  | 1 | COPS | Mode            | 332      | 1 | 0 | 60   | 241_11:07:30 |
| 241_11:07:30  | 1 | DFMS | Mode            | 502      | 0 | 0 | 1620 | 241_11:34:30 |
| 241_11:34:30  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 241_12:06:10 |
| 241_12:01:30  | 1 | COPS | Flight sequence | ARNF016A | 0 | 0 | 60   | 241_12:02:30 |
| 241_12:06:10  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 241_12:37:50 |
| 241_12:37:50  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 241_13:22:50 |
| 241_13:22:50  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 241_13:44:10 |
| 241_13:44:10  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 241_14:15:50 |
| 241_14:15:50  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 241_14:37:10 |
| 241_14:37:10  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 241_15:08:50 |
| 241_15:08:50  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 241_15:40:30 |
| 241_15:40:30  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 241_16:25:30 |
| 241_16:25:30  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 241_16:46:50 |
| 241_16:46:50  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 241_17:18:30 |
| 241_17:18:30  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 241_17:39:50 |
| 241_17:39:50  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 241_18:11:30 |
| 241_18:11:30  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 241_18:43:10 |
| 241_18:43:10  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 241_19:28:10 |
| 241_19:28:10  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 241_19:49:30 |
| 241_19:49:30  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 241_20:21:10 |
| 241_20:21:10  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 241_20:42:30 |
| 241_20:42:30  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 241_21:14:10 |
| 241_21:14:10  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 241_21:45:50 |
| 241_21:45:50  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 241_22:30:50 |

**COPS  
Science  
On**

|   |   |      |                 |          |   |   |      |              |
|---|---|------|-----------------|----------|---|---|------|--------------|
| 241_22:30:50  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 241_22:52:10 |
| 241_22:52:10  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 241_23:23:50 |
| 241_23:23:50  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 241_23:45:10 |
| 241_23:45:10  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 242_00:16:50 |
| 242_00:16:50  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 242_00:48:30 |
| 242_00:48:30  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 242_01:33:30 |
| 242_01:33:30  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 242_01:54:50 |
| 242_01:54:50  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 242_02:26:30 |
| 242_02:26:30  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 242_02:47:50 |
| 242_02:47:50  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 242_03:19:30 |
| 242_03:19:30  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 242_03:51:10 |
| 242_03:51:10  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 242_04:36:10 |
| 242_04:36:10  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 242_04:57:30 |
| 242_04:57:30  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 242_05:29:10 |
| 242_05:29:10  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 242_05:50:30 |
| 242_05:50:30  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 242_06:22:10 |
| 242_06:22:10  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 242_06:53:50 |
| 242_06:53:50  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 242_07:38:50 |
| 242_07:38:50  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 242_08:00:10 |
| 242_08:00:10  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 242_08:31:50 |
| 242_08:31:50  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 242_08:53:10 |
| <b>MWOL 29/08/2016 08:45:00 - 29/08/2016 11:01:30</b> |   |      |                 |          |   |   |      |              |
| 242_08:53:10  | 0 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 242_08:53:20 |
| 242_08:53:20  | 0 | DFMS | Mode            | 1        | 0 | 0 | 120  | 242_08:55:20 |
| 242_08:55:20  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1620 | 242_09:22:20 |
| 242_09:22:20  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 242_09:54:00 |
| 242_09:54:00  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 242_10:25:40 |
| 242_10:25:40  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 242_11:10:40 |
| 242_11:10:40  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 242_11:32:00 |
| 242_11:32:00  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 242_12:03:40 |
| 242_12:03:40  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 242_12:25:00 |
| 242_12:25:00  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 242_12:56:40 |
| 242_12:56:40  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 242_13:28:20 |
| 242_13:28:20  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 242_14:13:20 |
| 242_14:13:20  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 242_14:34:40 |

|              |   |      |                 |               |    |    |       |              |
|--------------|---|------|-----------------|---------------|----|----|-------|--------------|
| 242_14:34:40 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 242_15:06:20 |
| 242_15:06:20 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 242_15:27:40 |
| 242_15:27:40 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 242_15:59:20 |
| 242_15:59:20 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 242_16:31:00 |
| 242_16:31:00 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 242_17:16:00 |
| 242_17:16:00 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 242_17:37:20 |
| 242_17:37:20 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 242_18:09:00 |
| 242_18:00:00 | 1 | RTOF | Flight sequence | ARNF004A      | 0  | 0  | 120   | 242_18:02:00 |
| 242_18:02:00 | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 25 | 0  | 60    | 242_18:03:00 |
| 242_18:03:00 | 0 | RTOF | Mode            | 521           | 15 | 11 | 41790 | 243_05:39:30 |
| 242_18:09:00 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 242_18:30:20 |
| 242_18:30:20 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 242_19:02:00 |
| 242_19:02:00 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 242_19:33:40 |
| 242_19:33:40 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 242_20:18:40 |
| 242_20:18:40 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 242_20:40:00 |
| 242_20:40:00 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 242_21:11:40 |
| 242_21:11:40 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 242_21:33:00 |
| 242_21:33:00 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 242_22:04:40 |
| 242_22:04:40 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 242_22:36:20 |
| 242_22:36:20 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 242_23:21:20 |
| 242_23:21:20 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 242_23:42:40 |
| 242_23:42:40 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 243_00:14:20 |
| 243_00:14:20 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 243_00:35:40 |
| 243_00:35:40 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 243_01:07:20 |
| 243_01:07:20 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 243_01:39:00 |
| 243_01:39:00 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 243_02:24:00 |
| 243_02:24:00 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 243_02:45:20 |
| 243_02:45:20 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 243_03:17:00 |
| 243_03:17:00 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 243_03:48:40 |
| 243_03:48:40 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 243_04:33:40 |
| 243_04:33:40 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 243_04:55:00 |
| 243_04:55:00 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 243_05:26:40 |
| 243_05:26:40 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 243_05:48:00 |
| 243_05:39:30 | 0 | RTOF | Mode            | 521           | 13 | 0  | 2990  | 243_06:29:20 |
| 243_05:48:00 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 243_06:19:40 |

**RTOF ON &  
Measuring  
Block 3**

|   |   |        |                 |          |   |   |     |              |
|---|---|--------|-----------------|----------|---|---|-----|--------------|
| 243_06:30:29  | 1 | ROSINA | Flight sequence | ZRNP2002 | 0 | 0 | 240 | 243_06:34:29 |
| 243_06:34:29  | 0 | RTOF   | Flight sequence | ARNF014A | 0 | 0 | 120 | 243_06:36:29 |
| 243_06:36:29  | 0 | COPS   | Flight sequence | ARNF016B | 0 | 0 | 60  | 243_06:37:29 |
| 243_06:37:29  | 0 | COPS   | Mode            | 0        | 0 | 0 | 150 | 243_06:39:59 |
| <b>MOCM 30/08/2016 06:40:00 - 30/08/2016 11:00:00</b> |   |        |                 |          |   |   |     |              |

## STP124

| Start time  | Set Time | Instrument | Mode/Sequence   | Mode/Sequence number | Cycle number | Repetition | Duration [s] | Stop time    |
|---|----------|------------|-----------------|----------------------|--------------|------------|--------------|--------------|
| <b>MOCM 30/08/2016 06:40:00 - 30/08/2016 11:00:00</b> |          |            |                 |                      |              |            |              |              |
| 243_11:00:00  | 1        | COPS       | Mode            | 322                  | 1            | 0          | 60           | 243_11:01:00 |
| 243_11:01:00  | 1        | DFMS       | Mode            | 502                  | 0            | 0          | 1620         | 243_11:28:00 |
| 243_11:28:00  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 243_11:59:40 |
| 243_11:55:00  | 1        | COPS       | Flight sequence | ARNF016A             | 0            | 0          | 60           | 243_11:56:00 |
| 243_11:59:40  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 243_12:21:00 |
| 243_12:21:00  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 243_12:52:40 |
| 243_12:52:40  | 0        | DFMS       | Mode            | 564                  | 0            | 0          | 1900         | 243_13:24:20 |
| 243_13:24:20  | 0        | DFMS       | Mode            | 566                  | 0            | 0          | 2700         | 243_14:09:20 |
| 243_14:09:20  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 243_14:30:40 |
| 243_14:30:40  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 243_15:02:20 |
| 243_14:40:00  | 1        | RTOF       | Flight sequence | ARNF004A             | 0            | 0          | 120          | 243_14:42:00 |
| 243_14:42:00  | 0        | RTOF       | Flight sequence | ARNS041A_RTOF        | 25           | 0          | 60           | 243_14:43:00 |
| 243_14:43:00  | 0        | RTOF       | Mode            | 521                  | 13           | 10         | 33760        | 244_00:05:40 |
| 243_15:02:20  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 243_15:23:40 |
| 243_15:23:40  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 243_15:55:20 |
| 243_15:55:20  | 0        | DFMS       | Mode            | 564                  | 0            | 0          | 1900         | 243_16:27:00 |
| 243_16:27:00  | 0        | DFMS       | Mode            | 566                  | 0            | 0          | 2700         | 243_17:12:00 |
| 243_17:12:00  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 243_17:33:20 |
| 243_17:33:20  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 243_18:05:00 |
| 243_18:05:00  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 243_18:26:20 |
| 243_18:26:20  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 243_18:58:00 |
| 243_18:58:00  | 0        | DFMS       | Mode            | 564                  | 0            | 0          | 1900         | 243_19:29:40 |
| 243_19:29:40  | 0        | DFMS       | Mode            | 566                  | 0            | 0          | 2700         | 243_20:14:40 |
| 243_20:14:40  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 243_20:36:00 |

Block 3



|   |   |      |                 |          |   |   |      |              |
|---|---|------|-----------------|----------|---|---|------|--------------|
| 243_20:36:00  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 243_21:07:40 |
| 243_21:07:40  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 243_21:29:00 |
| 243_21:29:00  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 243_22:00:40 |
| 243_22:00:40  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 243_22:32:20 |
| 243_22:32:20  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 243_23:17:20 |
| 243_23:17:20  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 243_23:38:40 |
| 243_23:38:40  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 244_00:10:20 |
| 244_00:05:40  | 0 | RTOF | Mode            | 1        | 0 | 0 | 240  | 244_00:09:40 |
| 244_00:10:20  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 244_00:31:40 |
| 244_00:31:40  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 244_01:03:20 |
| 244_00:38:00  | 1 | RTOF | Flight sequence | ARNF014A | 0 | 0 | 120  | 244_00:40:00 |
| 244_01:03:20  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 244_01:35:00 |
| 244_01:35:00  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 244_02:20:00 |
| 244_02:20:00  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 244_02:41:20 |
| 244_02:41:20  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 244_03:13:00 |
| 244_03:13:00  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 244_03:34:20 |
| 244_03:34:20  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 244_04:06:00 |
| 244_04:06:00  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 244_04:37:40 |
| 244_04:37:40  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 244_05:22:40 |
| 244_05:22:40  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 244_05:44:00 |
| 244_05:44:00  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 244_06:15:40 |
| 244_06:15:40  | 0 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 244_06:15:50 |
| 244_06:15:50  | 0 | DFMS | Mode            | 1        | 0 | 0 | 120  | 244_06:17:50 |
| 244_06:36:30  | 1 | COPS | Flight sequence | ARNF016B | 0 | 0 | 60   | 244_06:37:30 |
| 244_06:37:30  | 0 | COPS | Mode            | 0        | 0 | 0 | 150  | 244_06:40:00 |
| <b>MOCM 31/08/2016 06:40:00 - 31/08/2016 11:06:30</b> |   |      |                 |          |   |   |      |              |
| 244_11:06:30  | 1 | COPS | Mode            | 332      | 1 | 0 | 60   | 244_11:07:30 |
| 244_11:07:30  | 1 | DFMS | Mode            | 502      | 0 | 0 | 1620 | 244_11:34:30 |
| 244_11:34:30  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 244_12:06:10 |
| 244_12:01:30  | 1 | COPS | Flight sequence | ARNF016A | 0 | 0 | 60   | 244_12:02:30 |
| 244_12:06:10  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 244_12:37:50 |
| 244_12:37:50  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 244_13:22:50 |
| 244_13:22:50  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 244_13:44:10 |
| 244_13:44:10  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 244_14:15:50 |
| 244_14:15:50  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 244_14:37:10 |

|              |   |      |      |     |   |   |      |              |
|--------------|---|------|------|-----|---|---|------|--------------|
| 244_14:37:10 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 244_15:08:50 |
| 244_15:08:50 | 0 | DFMS | Mode | 564 | 0 | 0 | 1900 | 244_15:40:30 |
| 244_15:40:30 | 0 | DFMS | Mode | 566 | 0 | 0 | 2700 | 244_16:25:30 |
| 244_16:25:30 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 244_16:46:50 |
| 244_16:46:50 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 244_17:18:30 |
| 244_17:18:30 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 244_17:39:50 |
| 244_17:39:50 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 244_18:11:30 |
| 244_18:11:30 | 0 | DFMS | Mode | 564 | 0 | 0 | 1900 | 244_18:43:10 |
| 244_18:43:10 | 0 | DFMS | Mode | 566 | 0 | 0 | 2700 | 244_19:28:10 |
| 244_19:28:10 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 244_19:49:30 |
| 244_19:49:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 244_20:21:10 |
| 244_20:21:10 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 244_20:42:30 |
| 244_20:42:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 244_21:14:10 |
| 244_21:14:10 | 0 | DFMS | Mode | 564 | 0 | 0 | 1900 | 244_21:45:50 |
| 244_21:45:50 | 0 | DFMS | Mode | 566 | 0 | 0 | 2700 | 244_22:30:50 |
| 244_22:30:50 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 244_22:52:10 |
| 244_22:52:10 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 244_23:23:50 |
| 244_23:23:50 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 244_23:45:10 |
| 244_23:45:10 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 245_00:16:50 |
| 245_00:16:50 | 0 | DFMS | Mode | 564 | 0 | 0 | 1900 | 245_00:48:30 |
| 245_00:48:30 | 0 | DFMS | Mode | 566 | 0 | 0 | 2700 | 245_01:33:30 |
| 245_01:33:30 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 245_01:54:50 |
| 245_01:54:50 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 245_02:26:30 |
| 245_02:26:30 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 245_02:47:50 |
| 245_02:47:50 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 245_03:19:30 |
| 245_03:19:30 | 0 | DFMS | Mode | 564 | 0 | 0 | 1900 | 245_03:51:10 |
| 245_03:51:10 | 0 | DFMS | Mode | 566 | 0 | 0 | 2700 | 245_04:36:10 |
| 245_04:36:10 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 245_04:57:30 |
| 245_04:57:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 245_05:29:10 |
| 245_05:29:10 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 245_05:50:30 |
| 245_05:50:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 245_06:22:10 |
| 245_06:22:10 | 0 | DFMS | Mode | 564 | 0 | 0 | 1900 | 245_06:53:50 |
| 245_06:53:50 | 0 | DFMS | Mode | 566 | 0 | 0 | 2700 | 245_07:38:50 |
| 245_07:38:50 | 0 | DFMS | Mode | 502 | 0 | 0 | 1280 | 245_08:00:10 |
| 245_08:00:10 | 0 | DFMS | Mode | 562 | 0 | 0 | 1900 | 245_08:31:50 |

|   |   |      |                 |               |    |    |       |              |
|---|---|------|-----------------|---------------|----|----|-------|--------------|
| 245_08:31:50  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 245_08:53:10 |
| <b>MWOL 01/09/2016 08:45:00 - 01/09/2016 11:01:30</b> |   |      |                 |               |    |    |       |              |
| 245_08:53:10  | 0 | DFMS | Flight sequence | ARNS081B      | 0  | 0  | 10    | 245_08:53:20 |
| 245_08:53:20  | 0 | DFMS | Mode            | 1             | 0  | 0  | 120   | 245_08:55:20 |
| 245_08:55:20  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1620  | 245_09:22:20 |
| 245_09:22:20  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 245_09:54:00 |
| 245_09:54:00  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 245_10:25:40 |
| 245_10:25:40  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 245_11:10:40 |
| 245_11:10:40  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 245_11:32:00 |
| 245_11:32:00  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 245_12:03:40 |
| 245_12:03:40  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 245_12:25:00 |
| 245_12:25:00  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 245_12:56:40 |
| 245_12:56:40  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 245_13:28:20 |
| 245_13:28:20  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 245_14:13:20 |
| 245_14:13:20  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 245_14:34:40 |
| 245_14:34:40  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 245_15:06:20 |
| 245_15:06:20  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 245_15:27:40 |
| 245_15:27:40  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 245_15:59:20 |
| 245_15:59:20  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 245_16:31:00 |
| 245_16:31:00  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 245_17:16:00 |
| 245_17:16:00  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 245_17:37:20 |
| 245_17:37:20  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 245_18:09:00 |
| 245_18:00:00  | 1 | RTOF | Flight sequence | ARNF004A      | 0  | 0  | 120   | 245_18:02:00 |
| 245_18:02:00  | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 25 | 0  | 60    | 245_18:03:00 |
| 245_18:03:00  | 0 | RTOF | Mode            | 521           | 15 | 11 | 41790 | 246_05:39:30 |
| 245_18:09:00  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 245_18:30:20 |
| 245_18:30:20  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 245_19:02:00 |
| 245_19:02:00  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 245_19:33:40 |
| 245_19:33:40  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 245_20:18:40 |
| 245_20:18:40  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 245_20:40:00 |
| 245_20:40:00  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 245_21:11:40 |
| 245_21:11:40  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 245_21:33:00 |
| 245_21:33:00  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 245_22:04:40 |
| 245_22:04:40  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 245_22:36:20 |
| 245_22:36:20  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 245_23:21:20 |

Block 10

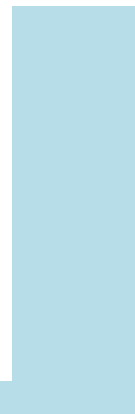
|  |   |        |                 |          |   |   |      |              |
|--|---|--------|-----------------|----------|---|---|------|--------------|
| 245_23:21:20                                   | 0 | DFMS   | Mode            | 502      | 0 | 0 | 1280 | 245_23:42:40 |
| 245_23:42:40                                   | 0 | DFMS   | Mode            | 562      | 0 | 0 | 1900 | 246_00:14:20 |
| 246_00:14:20                                   | 0 | DFMS   | Mode            | 502      | 0 | 0 | 1280 | 246_00:35:40 |
| 246_00:35:40                                   | 0 | DFMS   | Mode            | 562      | 0 | 0 | 1900 | 246_01:07:20 |
| 246_01:07:20                                   | 0 | DFMS   | Mode            | 564      | 0 | 0 | 1900 | 246_01:39:00 |
| 246_01:39:00                                   | 0 | DFMS   | Mode            | 566      | 0 | 0 | 2700 | 246_02:24:00 |
| 246_02:24:00                                   | 0 | DFMS   | Mode            | 502      | 0 | 0 | 1280 | 246_02:45:20 |
| 246_02:45:20                                   | 0 | DFMS   | Mode            | 562      | 0 | 0 | 1900 | 246_03:17:00 |
| 246_03:17:00                                   | 0 | DFMS   | Mode            | 564      | 0 | 0 | 1900 | 246_03:48:40 |
| 246_03:48:40                                   | 0 | DFMS   | Mode            | 566      | 0 | 0 | 2700 | 246_04:33:40 |
| 246_04:33:40                                   | 0 | DFMS   | Mode            | 502      | 0 | 0 | 1280 | 246_04:55:00 |
| 246_04:55:00                                   | 0 | DFMS   | Mode            | 562      | 0 | 0 | 1900 | 246_05:26:40 |
| 246_05:26:40                                   | 0 | DFMS   | Mode            | 502      | 0 | 0 | 1280 | 246_05:48:00 |
| 246_05:39:30                                   | 0 | RTOF   | Mode            | 181      | 2 | 0 | 740  | 246_05:51:50 |
| 246_05:48:00                                   | 0 | DFMS   | Mode            | 562      | 0 | 0 | 1900 | 246_06:19:40 |
| 246_06:19:40                                   | 0 | ROSINA | Flight sequence | ZRNP2002 | 0 | 0 | 240  | 246_06:23:40 |
| 246_06:23:40                                   | 0 | RTOF   | Flight sequence | ARNF014A | 0 | 0 | 120  | 246_06:25:40 |
| 246_06:36:30                                   | 1 | COPS   | Flight sequence | ARNF016B | 0 | 0 | 60   | 246_06:37:30 |
| 246_06:37:30                                   | 0 | COPS   | Mode            | 0        | 0 | 0 | 150  | 246_06:40:00 |
| MOCM 02/09/2016 06:40:00 - 02/09/2016 11:00:00 |   |        |                 |          |   |   |      |              |

## STP125

| Start time                                     | Set Time | Instrument                      | Mode/Sequence   | Mode/Sequence number | Cycle number | Repetition | Duration [s] | Stop time    |
|--|----------|---------------------------------|-----------------|----------------------|--------------|------------|--------------|--------------|
| MOCM 02/09/2016 06:40:00 - 02/09/2016 11:00:00 |          |                                 |                 |                      |              |            |              |              |
| 246_11:00:00                                   | 1        | COPS                            | Mode            | 316                  | 1            | 0          | 60           | 246_11:01:00 |
| 246_11:01:00                                   | 1        | DFMS                            | Mode            | 502                  | 0            | 0          | 1620         | 246_11:28:00 |
| 246_11:02:00                                   | 1        | RTOF                            | Flight sequence | ARNF004A             | 0            | 0          | 120          | 246_11:04:00 |
| 246_11:04:00                                   | 0        | RTOF                            | Flight sequence | ARNS041A_RTOF        | 1            | 0          | 60           | 246_11:05:00 |
| 246_11:05:00                                   | 0        | RTOF                            | Mode            | 521                  | 15           | 10         | 38380        | 246_21:44:40 |
| 246_11:23:53                                   |          | <b>COPS PRESSURE ALERT!</b>     |                 |                      |              |            |              |              |
| 246_11:24:44                                   |          | <b>Sensor Error: CM_RG_GRID</b> |                 |                      |              |            |              |              |
| 246_11:28:00                                   | 0        | DFMS                            | Mode            | 562                  | 0            | 0          | 1900         | 246_11:59:40 |
| 246_11:35:28                                   |          | <b>COPS PRESSURE ALERT!</b>     |                 |                      |              |            |              |              |

|              |   |  |                 |          |    |   |      |              |
|--------------|---|--|-----------------|----------|----|---|------|--------------|
| 246_11:42:52 |   | <b>Sensor Error: CM_RG_IMMI_LO</b>   |                 |          |    |   |      |              |
| 246_11:52:16 |   | <b>COPS PRESSURE ALERT!</b>  |                 |          |    |   |      |              |
| 246_11:59:40 |   | <b>Sensor Error: CM_RG_IMMI_LO</b>   |                 |          |    |   |      |              |
| 246_11:55:00 | 1 | COPS   | Flight sequence | ARNF016A | 0  | 0 | 60   | 246_11:56:00 |
| 246_11:59:40 | 0 | DFMS   | Mode            | 502      | 0  | 0 | 1280 | 246_12:21:00 |
| 246_12:21:00 | 0 | DFMS   | Mode            | 562      | 0  | 0 | 1900 | 246_12:52:40 |
| 246_12:52:40 | 0 | DFMS   | Mode            | 564      | 0  | 0 | 1900 | 246_13:24:20 |
| 246_13:24:20 | 0 | DFMS   | Mode            | 566      | 0  | 0 | 2700 | 246_14:09:20 |
| 246_14:09:20 | 0 | DFMS   | Mode            | 502      | 0  | 0 | 1280 | 246_14:30:40 |
| 246_14:22:01 |   | <b>DFMS &amp; RTOF are successfully switched ON (DFMS in M502, RTOF in M521)</b> |                 |          |    |   |      |              |
| 246_14:30:40 | 0 | DFMS   | Mode            | 562      | 0  | 0 | 1900 | 246_15:02:20 |
| 246_15:02:20 | 0 | DFMS   | Mode            | 502      | 0  | 0 | 1280 | 246_15:23:40 |
| 246_15:23:40 | 0 | DFMS   | Mode            | 562      | 0  | 0 | 1900 | 246_15:55:20 |
| 246_15:55:20 | 0 | DFMS   | Mode            | 564      | 0  | 0 | 1900 | 246_16:27:00 |
| 246_16:27:00 | 0 | DFMS   | Mode            | 566      | 0  | 0 | 2700 | 246_17:12:00 |
| 246_17:12:00 | 0 | DFMS   | Mode            | 502      | 0  | 0 | 1280 | 246_17:33:20 |
| 246_17:33:20 | 0 | DFMS   | Mode            | 562      | 0  | 0 | 1900 | 246_18:05:00 |
| 246_18:05:00 | 0 | DFMS   | Mode            | 502      | 0  | 0 | 1280 | 246_18:26:20 |
| 246_18:26:20 | 0 | DFMS   | Mode            | 562      | 0  | 0 | 1900 | 246_18:58:00 |
| 246_18:58:00 | 0 | DFMS   | Mode            | 564      | 0  | 0 | 1900 | 246_19:29:40 |
| 246_19:29:40 | 0 | DFMS   | Mode            | 566      | 0  | 0 | 2700 | 246_20:14:40 |
| 246_20:14:40 | 0 | DFMS   | Mode            | 502      | 0  | 0 | 1280 | 246_20:36:00 |
| 246_20:36:00 | 0 | DFMS   | Mode            | 562      | 0  | 0 | 1900 | 246_21:07:40 |
| 246_21:07:40 | 0 | DFMS   | Mode            | 502      | 0  | 0 | 1280 | 246_21:29:00 |
| 246_21:29:00 | 0 | DFMS   | Mode            | 562      | 0  | 0 | 1900 | 246_22:00:40 |
| 246_21:44:40 | 0 | RTOF   | Mode            | 521      | 12 | 0 | 2780 | 246_22:31:00 |
| 246_22:00:40 | 0 | DFMS   | Mode            | 564      | 0  | 0 | 1900 | 246_22:32:20 |
| 246_22:31:00 | 0 | RTOF   | Mode            | 1        | 0  | 0 | 240  | 246_22:35:00 |
| 246_22:32:20 | 0 | DFMS   | Mode            | 566      | 0  | 0 | 2700 | 246_23:17:20 |
| 246_22:35:00 | 0 | RTOF   | Flight sequence | ARNF014A | 0  | 0 | 120  | 246_22:37:00 |
| 246_23:17:20 | 0 | DFMS   | Mode            | 502      | 0  | 0 | 1280 | 246_23:38:40 |
| 246_23:38:40 | 0 | DFMS   | Mode            | 562      | 0  | 0 | 1900 | 247_00:10:20 |
| 247_00:10:20 | 0 | DFMS   | Mode            | 502      | 0  | 0 | 1280 | 247_00:31:40 |
| 247_00:31:40 | 0 | DFMS   | Mode            | 562      | 0  | 0 | 1900 | 247_01:03:20 |
| 247_01:03:20 | 0 | DFMS   | Mode            | 564      | 0  | 0 | 1900 | 247_01:35:00 |

|   |   |      |                 |          |   |   |      |              |
|---|---|------|-----------------|----------|---|---|------|--------------|
| 247_01:35:00  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 247_02:20:00 |
| 247_02:20:00  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 247_02:41:20 |
| 247_02:41:20  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 247_03:13:00 |
| 247_03:13:00  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 247_03:34:20 |
| 247_03:34:20  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 247_04:06:00 |
| 247_04:06:00  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 247_04:37:40 |
| 247_04:37:40  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 247_05:22:40 |
| 247_05:22:40  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 247_05:44:00 |
| 247_05:44:00  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 247_06:15:40 |
| 247_06:15:40  | 0 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 247_06:15:50 |
| 247_06:15:50  | 0 | DFMS | Mode            | 1        | 0 | 0 | 120  | 247_06:17:50 |
| 247_06:36:30  | 1 | COPS | Flight sequence | ARNF016B | 0 | 0 | 60   | 247_06:37:30 |
| 247_06:37:30  | 0 | COPS | Mode            | 0        | 0 | 0 | 150  | 247_06:40:00 |
| <b>MOCM 03/09/2016 06:40:00 - 03/09/2016 11:06:30</b> |   |      |                 |          |   |   |      |              |
| 247_11:06:30  | 1 | COPS | Mode            | 396      | 1 | 0 | 60   | 247_11:07:30 |
| 247_11:07:30  | 1 | DFMS | Mode            | 502      | 0 | 0 | 1620 | 247_11:34:30 |
| 247_11:11:00  | 1 | COPS | Flight sequence | ARNS081A | 0 | 0 | 10   | 247_11:11:10 |
| 247_11:12:00  | 1 | COPS | Mode            | 0        | 0 | 0 | 150  | 247_11:14:30 |
| 247_11:14:30  | 0 | COPS | Mode            | 332      | 1 | 0 | 60   | 247_11:15:30 |
| 247_11:34:30  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 247_12:06:10 |
| 247_12:01:30  | 1 | COPS | Flight sequence | ARNF016A | 0 | 0 | 60   | 247_12:02:30 |
| 247_12:06:10  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 247_12:37:50 |
| 247_12:37:50  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 247_13:22:50 |
| 247_13:22:50  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 247_13:44:10 |
| 247_13:44:10  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 247_14:15:50 |
| 247_14:15:50  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 247_14:37:10 |
| 247_14:37:10  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 247_15:08:50 |
| 247_15:08:50  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 247_15:40:30 |
| 247_15:40:30  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 247_16:25:30 |
| 247_16:25:30  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 247_16:46:50 |
| 247_16:46:50  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 247_17:18:30 |
| 247_17:18:30  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 247_17:39:50 |
| 247_17:39:50  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 247_18:11:30 |
| 247_18:11:30  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 247_18:43:10 |
| 247_18:43:10  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 247_19:28:10 |



Microtips group 6-8

PDOP  
PDOP  
PDOP



|   |   |      |                 |               |    |    |       |              |
|---|---|------|-----------------|---------------|----|----|-------|--------------|
| 247_19:28:10  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 247_19:49:30 |
| 247_19:49:30  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 247_20:21:10 |
| 247_20:21:10  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 247_20:42:30 |
| 247_20:42:30  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 247_21:14:10 |
| 247_21:14:10  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 247_21:45:50 |
| 247_21:45:50  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 247_22:30:50 |
| 247_22:30:50  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 247_22:52:10 |
| 247_22:52:10  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 247_23:23:50 |
| 247_23:23:50  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 247_23:45:10 |
| 247_23:45:10  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 248_00:16:50 |
| 248_00:16:50  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 248_00:48:30 |
| 248_00:48:30  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 248_01:33:30 |
| 248_01:33:30  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 248_01:54:50 |
| 248_01:54:50  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 248_02:26:30 |
| 248_02:26:30  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 248_02:47:50 |
| 248_02:47:50  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 248_03:19:30 |
| 248_03:19:30  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 248_03:51:10 |
| 248_03:51:10  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 248_04:36:10 |
| 248_04:15:00  | 1 | RTOF | Flight sequence | ARNF004A      | 0  | 0  | 120   | 248_04:17:00 |
| 248_04:17:00  | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 1  | 0  | 60    | 248_04:18:00 |
| 248_04:18:00  | 0 | RTOF | Mode            | 521           | 15 | 11 | 41790 | 248_15:54:30 |
| 248_04:36:10  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 248_04:57:30 |
| 248_04:57:30  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 248_05:29:10 |
| 248_05:29:10  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 248_05:50:30 |
| 248_05:50:30  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 248_06:22:10 |
| 248_06:22:10  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 248_06:53:50 |
| 248_06:53:50  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 248_07:38:50 |
| 248_07:38:50  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 248_08:00:10 |
| 248_08:00:10  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 248_08:31:50 |
| 248_08:31:50  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 248_08:53:10 |
| <b>MWOL 04/09/2016 08:45:00 - 04/09/2016 11:01:30</b> |   |      |                 |               |    |    |       |              |
| 248_08:53:10  | 0 | DFMS | Flight sequence | ARNS081B      | 0  | 0  | 10    | 248_08:53:20 |
| 248_08:53:20  | 0 | DFMS | Mode            | 1             | 0  | 0  | 120   | 248_08:55:20 |
| 248_08:55:20  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1620  | 248_09:22:20 |
| 248_09:22:20  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 248_09:54:00 |

|              |   |      |                 |          |    |   |      |              |  |  |
|--------------|---|------|-----------------|----------|----|---|------|--------------|--|--|
| 248_09:54:00 | 0 | DFMS | Mode            | 564      | 0  | 0 | 1900 | 248_10:25:40 |  |  |
| 248_10:25:40 | 0 | DFMS | Mode            | 566      | 0  | 0 | 2700 | 248_11:10:40 |  |  |
| 248_11:10:40 | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280 | 248_11:32:00 |  |  |
| 248_11:32:00 | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900 | 248_12:03:40 |  |  |
| 248_12:03:40 | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280 | 248_12:25:00 |  |  |
| 248_12:25:00 | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900 | 248_12:56:40 |  |  |
| 248_12:56:40 | 0 | DFMS | Mode            | 564      | 0  | 0 | 1900 | 248_13:28:20 |  |  |
| 248_13:28:20 | 0 | DFMS | Mode            | 566      | 0  | 0 | 2700 | 248_14:13:20 |  |  |
| 248_14:13:20 | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280 | 248_14:34:40 |  |  |
| 248_14:34:40 | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900 | 248_15:06:20 |  |  |
| 248_15:06:20 | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280 | 248_15:27:40 |  |  |
| 248_15:27:40 | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900 | 248_15:59:20 |  |  |
| 248_15:54:30 | 0 | RTOF | Mode            | 521      | 13 | 0 | 2990 | 248_16:44:20 |  |  |
| 248_15:59:20 | 0 | DFMS | Mode            | 564      | 0  | 0 | 1900 | 248_16:31:00 |  |  |
| 248_16:31:00 | 0 | DFMS | Mode            | 566      | 0  | 0 | 2700 | 248_17:16:00 |  |  |
| 248_16:44:20 | 0 | RTOF | Mode            | 1        | 0  | 0 | 240  | 248_16:48:20 |  |  |
| 248_16:48:20 | 0 | RTOF | Flight sequence | ARNF014A | 0  | 0 | 120  | 248_16:50:20 |  |  |
| 248_17:16:00 | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280 | 248_17:37:20 |  |  |
| 248_17:37:20 | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900 | 248_18:09:00 |  |  |
| 248_18:09:00 | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280 | 248_18:30:20 |  |  |
| 248_18:30:20 | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900 | 248_19:02:00 |  |  |
| 248_19:02:00 | 0 | DFMS | Mode            | 564      | 0  | 0 | 1900 | 248_19:33:40 |  |  |
| 248_19:33:40 | 0 | DFMS | Mode            | 566      | 0  | 0 | 2700 | 248_20:18:40 |  |  |
| 248_20:18:40 | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280 | 248_20:40:00 |  |  |
| 248_20:40:00 | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900 | 248_21:11:40 |  |  |
| 248_21:11:40 | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280 | 248_21:33:00 |  |  |
| 248_21:33:00 | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900 | 248_22:04:40 |  |  |
| 248_22:04:40 | 0 | DFMS | Mode            | 564      | 0  | 0 | 1900 | 248_22:36:20 |  |  |
| 248_22:36:20 | 0 | DFMS | Mode            | 566      | 0  | 0 | 2700 | 248_23:21:20 |  |  |
| 248_23:21:20 | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280 | 248_23:42:40 |  |  |
| 248_23:42:40 | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900 | 249_00:14:20 |  |  |
| 249_00:14:20 | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280 | 249_00:35:40 |  |  |
| 249_00:35:40 | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900 | 249_01:07:20 |  |  |
| 249_01:07:20 | 0 | DFMS | Mode            | 564      | 0  | 0 | 1900 | 249_01:39:00 |  |  |
| 249_01:39:00 | 0 | DFMS | Mode            | 566      | 0  | 0 | 2700 | 249_02:24:00 |  |  |



|              |   |      |                 |          |   |   |      |              |
|--------------|---|------|-----------------|----------|---|---|------|--------------|
| 249_02:24:00 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 249_02:45:20 |
| 249_02:45:20 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 249_03:17:00 |
| 249_03:17:00 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 249_03:48:40 |
| 249_03:48:40 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 249_04:33:40 |
| 249_04:33:40 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 249_04:55:00 |
| 249_04:55:00 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 249_05:26:40 |
| 249_05:26:40 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 249_05:48:00 |
| 249_05:48:00 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 249_06:19:40 |
| 249_06:19:40 | 0 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 249_06:19:50 |
| 249_06:19:50 | 0 | DFMS | Mode            | 1        | 0 | 0 | 120  | 249_06:21:50 |
| 249_06:36:30 | 1 | COPS | Flight sequence | ARNF016B | 0 | 0 | 60   | 249_06:37:30 |
| 249_06:37:30 | 0 | COPS | Mode            | 0        | 0 | 0 | 150  | 249_06:40:00 |

MOCM 05/09/2016 06:40:00 - 05/09/2016 11:00:00

## STP126

| Start time                                     | Set Time | Instrument  | Mode/Sequence   | Mode/Sequence number | Cycle number | Repetition | Duration [s] | Stop time    |
|--|----------|---|-----------------|----------------------|--------------|------------|--------------|--------------|
| MOCM 05/09/2016 06:40:00 - 05/09/2016 11:00:00 |          |   |                 |                      |              |            |              |              |
| 249_10:59:30                                   | 1        | COPS default microtips changed to #6, #7, and #8 for mode 316 |                 |                      |              |            |              |              |
| 249_11:00:00                                   | 1        | COPS  | Mode            | 316                  | 1            | 0          | 60           | 249_11:01:00 |
| 249_11:01:00                                   | 1        | DFMS  | Mode            | 502                  | 0            | 0          | 1620         | 249_11:28:00 |
| 249_11:05:00                                   | 1        | COPS  | Flight sequence | ARNS081A             | 0            | 0          | 10           | 247_11:11:10 |
| 249_11:06:00                                   | 1        | COPS  | Mode            | 0                    | 0            | 0          | 150          | 247_11:14:30 |
| 249_11:08:30                                   | 0        | COPS  | Mode            | 396                  | 1            | 0          | 60           | 247_11:15:30 |
| 249_11:28:00                                   | 0        | DFMS  | Mode            | 562                  | 0            | 0          | 1900         | 249_11:59:40 |
| 249_11:55:00                                   | 1        | COPS  | Flight sequence | ARNF016A             | 0            | 0          | 60           | 249_11:56:00 |
| 249_11:59:40                                   | 0        | DFMS  | Mode            | 502                  | 0            | 0          | 1280         | 249_12:21:00 |
| 249_12:21:00                                   | 0        | DFMS  | Mode            | 562                  | 0            | 0          | 1900         | 249_12:52:40 |
| 249_12:52:40                                   | 0        | DFMS  | Mode            | 564                  | 0            | 0          | 1900         | 249_13:24:20 |
| 249_13:24:20                                   | 0        | DFMS  | Mode            | 566                  | 0            | 0          | 2700         | 249_14:09:20 |
| 249_14:09:20                                   | 0        | DFMS  | Mode            | 502                  | 0            | 0          | 1280         | 249_14:30:40 |
| 249_14:30:40                                   | 0        | DFMS  | Mode            | 562                  | 0            | 0          | 1900         | 249_15:02:20 |
| 249_15:02:20                                   | 0        | DFMS  | Mode            | 502                  | 0            | 0          | 1280         | 249_15:23:40 |
| 249_15:23:40                                   | 0        | DFMS  | Mode            | 562                  | 0            | 0          | 1900         | 249_15:55:20 |

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PDOP

|              |   |      |                 |               |    |   |       |              |
|--------------|---|------|-----------------|---------------|----|---|-------|--------------|
| 249_15:55:20 | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 249_16:27:00 |
| 249_16:27:00 | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 249_17:12:00 |
| 249_17:12:00 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 249_17:33:20 |
| 249_17:33:20 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 249_18:05:00 |
| 249_18:05:00 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 249_18:26:20 |
| 249_18:26:20 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 249_18:58:00 |
| 249_18:50:00 | 1 | RTOF | Flight sequence | ARNF004A      | 0  | 0 | 120   | 249_18:52:00 |
| 249_18:52:00 | 0 | RTOF | Flight sequence | ARNS041A_RTOf | 1  | 0 | 60    | 249_18:53:00 |
| 249_18:53:00 | 0 | RTOF | Mode            | 521           | 15 | 3 | 14510 | 249_22:54:50 |
| 249_18:58:00 | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 249_19:29:40 |
| 249_19:29:40 | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 249_20:14:40 |
| 249_20:14:40 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 249_20:36:00 |
| 249_20:36:00 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 249_21:07:40 |
| 249_21:07:40 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 249_21:29:00 |
| 249_21:29:00 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 249_22:00:40 |
| 249_22:00:40 | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 249_22:32:20 |
| 249_22:32:20 | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 249_23:17:20 |
| 249_22:54:50 | 0 | RTOF | Mode            | 521           | 4  | 0 | 1100  | 249_23:13:10 |
| 249_23:13:10 | 0 | RTOF | Mode            | 1             | 0  | 0 | 240   | 249_23:17:10 |
| 249_23:17:20 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 249_23:38:40 |
| 249_23:18:24 | 1 | RTOF | Flight sequence | ARNF014A      | 0  | 0 | 120   | 249_23:20:24 |
| 249_23:38:40 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 250_00:10:20 |
| 250_00:10:20 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 250_00:31:40 |
| 250_00:31:40 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 250_01:03:20 |
| 250_01:03:20 | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 250_01:35:00 |
| 250_01:35:00 | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 250_02:20:00 |
| 250_02:20:00 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 250_02:41:20 |
| 250_02:41:20 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 250_03:13:00 |
| 250_03:13:00 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 250_03:34:20 |
| 250_03:34:20 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 250_04:06:00 |
| 250_04:06:00 | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 250_04:37:40 |
| 250_04:37:40 | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 250_05:22:40 |
| 250_05:22:40 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 250_05:44:00 |
| 250_05:44:00 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 250_06:15:40 |
| 250_06:15:40 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 250_06:37:00 |

|   |          |  |                 |               |    |   |       |              |
|---|----------|--|-----------------|---------------|----|---|-------|--------------|
| 250_06:37:00  | 0        | DFMS   | Flight sequence | ARNS081B      | 0  | 0 | 10    | 250_06:37:10 |
| 250_06:37:10  | 0        | DFMS   | Mode            | 1             | 0  | 0 | 120   | 250_06:39:10 |
| 250_06:38:10  | 0        | COPS   | Flight sequence | ARNF016B      | 0  | 0 | 60    | 250_06:39:10 |
| 250_06:39:10  | 0        | COPS   | Mode            | 0             | 0  | 0 | 150   | 250_06:41:40 |
| <b>MOCM 06/09/2016 06:40:00 - 06/09/2016 11:06:30</b> |          |  |                 |               |    |   |       |              |
| 250_09:30:00  | 1        | RTOF   | Flight sequence | ARNF004A      | 0  | 0 | 120   | 250_09:32:00 |
| 250_09:32:00  | 0        | RTOF   | Flight sequence | ARNS041A_RTOF | 1  | 0 | 60    | 250_09:33:00 |
| <b>250_11:06:00</b>                                   | <b>1</b> | <b>COPS default microtips changed to #6, #7, and #8 for mode 396</b> |                 |               |    |   |       |              |
| 250_11:06:30  | 1        | COPS   | Mode            | 396           | 1  | 0 | 60    | 250_11:07:30 |
| 250_11:07:30  | 1        | DFMS   | Mode            | 502           | 0  | 0 | 1620  | 250_11:34:30 |
| 250_11:08:30  | 1        | RTOF   | Mode            | 521           | 15 | 9 | 34970 | 250_20:51:20 |
| 250_11:34:30  | 0        | DFMS   | Mode            | 562           | 0  | 0 | 1900  | 250_12:06:10 |
| 250_12:01:30  | 1        | COPS   | Flight sequence | ARNF016A      | 0  | 0 | 60    | 250_12:02:30 |
| 250_12:06:10  | 0        | DFMS   | Mode            | 564           | 0  | 0 | 1900  | 250_12:37:50 |
| 250_12:37:50  | 0        | DFMS   | Mode            | 566           | 0  | 0 | 2700  | 250_13:22:50 |
| 250_13:22:50  | 0        | DFMS   | Mode            | 502           | 0  | 0 | 1280  | 250_13:44:10 |
| 250_13:44:10  | 0        | DFMS   | Mode            | 562           | 0  | 0 | 1900  | 250_14:15:50 |
| 250_14:15:50  | 0        | DFMS   | Mode            | 502           | 0  | 0 | 1280  | 250_14:37:10 |
| 250_14:37:10  | 0        | DFMS   | Mode            | 562           | 0  | 0 | 1900  | 250_15:08:50 |
| 250_15:08:50  | 0        | DFMS   | Mode            | 564           | 0  | 0 | 1900  | 250_15:40:30 |
| 250_15:40:30  | 0        | DFMS   | Mode            | 566           | 0  | 0 | 2700  | 250_16:25:30 |
| 250_16:25:30  | 0        | DFMS   | Mode            | 502           | 0  | 0 | 1280  | 250_16:46:50 |
| 250_16:46:50  | 0        | DFMS   | Mode            | 562           | 0  | 0 | 1900  | 250_17:18:30 |
| 250_17:18:30  | 0        | DFMS   | Mode            | 502           | 0  | 0 | 1280  | 250_17:39:50 |
| 250_17:39:50  | 0        | DFMS   | Mode            | 562           | 0  | 0 | 1900  | 250_18:11:30 |
| 250_18:11:30  | 0        | DFMS   | Mode            | 564           | 0  | 0 | 1900  | 250_18:43:10 |
| 250_18:43:10  | 0        | DFMS   | Mode            | 566           | 0  | 0 | 2700  | 250_19:28:10 |
| 250_19:28:10  | 0        | DFMS   | Mode            | 502           | 0  | 0 | 1280  | 250_19:49:30 |
| 250_19:49:30  | 0        | DFMS   | Mode            | 562           | 0  | 0 | 1900  | 250_20:21:10 |
| 250_20:21:10  | 0        | DFMS   | Mode            | 502           | 0  | 0 | 1280  | 250_20:42:30 |
| 250_20:42:30  | 0        | DFMS   | Mode            | 562           | 0  | 0 | 1900  | 250_21:14:10 |
| 250_20:51:20  | 0        | RTOF   | Mode            | 521           | 8  | 0 | 1940  | 250_21:23:40 |
| 250_21:14:10  | 0        | DFMS   | Mode            | 564           | 0  | 0 | 1900  | 250_21:45:50 |
| 250_21:25:00  | 1        | RTOF   | Mode            | 1             | 0  | 0 | 240   | 250_21:29:00 |
| 250_21:30:00  | 1        | RTOF   | Flight sequence | ARNF014A      | 0  | 0 | 120   | 250_21:32:00 |

|   |   |      |                 |               |    |   |       |              |                    |
|---|---|------|-----------------|---------------|----|---|-------|--------------|--------------------|
| 250_21:45:50  | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 250_22:30:50 |                    |
| 250_22:30:50  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 250_22:52:10 |                    |
| 250_22:52:10  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 250_23:23:50 |                    |
| 250_23:23:50  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 250_23:45:10 |                    |
| 250_23:45:10  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 251_00:16:50 |                    |
| 251_00:16:50  | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 251_00:48:30 |                    |
| 251_00:48:30  | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 251_01:33:30 |                    |
| 251_01:33:30  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 251_01:54:50 |                    |
| 251_01:54:50  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 251_02:26:30 |                    |
| 251_02:26:30  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 251_02:47:50 |                    |
| 251_02:47:50  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 251_03:19:30 |                    |
| 251_03:19:30  | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 251_03:51:10 |                    |
| 251_03:51:10  | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 251_04:36:10 |                    |
| 251_04:36:10  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 251_04:57:30 |                    |
| 251_04:57:30  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 251_05:29:10 |                    |
| 251_05:29:10  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 251_05:50:30 |                    |
| 251_05:50:30  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 251_06:22:10 |                    |
| 251_06:22:10  | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 251_06:53:50 |                    |
| 251_06:53:50  | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 251_07:38:50 |                    |
| 251_07:38:50  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 251_08:00:10 |                    |
| 251_08:00:10  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 251_08:31:50 |                    |
| 251_08:31:50  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 251_08:53:10 |                    |
| <b>MWOL 07/09/2016 08:45:00 - 07/09/2016 11:01:30</b> |   |      |                 |               |    |   |       |              |                    |
| 251_08:54:10  | 1 | DFMS | Flight sequence | ARNS081B      | 0  | 0 | 10    | 251_08:54:20 |                    |
| 251_08:55:00  | 4 | DFMS | Flight sequence | ARNF003A      | 0  | 0 | 120   | 251_08:57:00 |                    |
| 251_09:05:00  | 1 | DFMS | Mode            | 522           | 0  | 0 | 758   | 251_09:17:38 | 4s HK test aborted |
| 251_09:19:50  | 1 | DFMS | Flight sequence | ARNS081B      | 0  | 0 | 10    | 251_09:20:00 |                    |
| 251_09:20:00  | 0 | DFMS | Flight sequence | ARNF003A      | 0  | 0 | 120   | 251_09:22:00 |                    |
| 251_09:22:00  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 251_09:43:20 |                    |
| 251_09:43:20  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 251_10:15:00 |                    |
| 251_10:15:00  | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 251_10:46:40 |                    |
| 251_10:46:40  | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 251_11:31:40 |                    |
| 251_11:01:36  | 1 | RTOF | Flight sequence | ARNF004A      | 0  | 0 | 120   | 251_11:03:36 |                    |
| 251_11:03:36  | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 1  | 0 | 60    | 251_11:04:36 |                    |
| 251_11:04:36  | 0 | RTOF | Mode            | 521           | 15 | 4 | 17920 | 251_16:03:16 |                    |

|              |   |      |                 |          |    |   |      |              |
|--------------|---|------|-----------------|----------|----|---|------|--------------|
| 251_11:31:40 | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280 | 251_11:53:00 |
| 251_11:53:00 | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900 | 251_12:24:40 |
| 251_12:24:40 | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280 | 251_12:46:00 |
| 251_12:46:00 | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900 | 251_13:17:40 |
| 251_13:17:40 | 0 | DFMS | Mode            | 564      | 0  | 0 | 1900 | 251_13:49:20 |
| 251_13:49:20 | 0 | DFMS | Mode            | 566      | 0  | 0 | 2700 | 251_14:34:20 |
| 251_14:34:20 | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280 | 251_14:55:40 |
| 251_14:55:40 | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900 | 251_15:27:20 |
| 251_15:27:20 | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280 | 251_15:48:40 |
| 251_15:48:40 | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900 | 251_16:20:20 |
| 251_16:03:16 | 0 | RTOF | Mode            | 521      | 13 | 0 | 2990 | 251_16:53:06 |
| 251_16:20:20 | 0 | DFMS | Mode            | 564      | 0  | 0 | 1900 | 251_16:52:00 |
| 251_16:52:00 | 0 | DFMS | Mode            | 566      | 0  | 0 | 2700 | 251_17:37:00 |
| 251_16:53:06 | 0 | RTOF | Mode            | 1        | 0  | 0 | 240  | 251_16:57:06 |
| 251_17:00:00 | 1 | RTOF | Flight sequence | ARNF014A | 0  | 0 | 120  | 251_17:02:00 |
| 251_17:37:00 | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280 | 251_17:58:20 |
| 251_17:58:20 | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900 | 251_18:30:00 |
| 251_18:30:00 | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280 | 251_18:51:20 |
| 251_18:51:20 | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900 | 251_19:23:00 |
| 251_19:23:00 | 0 | DFMS | Mode            | 564      | 0  | 0 | 1900 | 251_19:54:40 |
| 251_19:54:40 | 0 | DFMS | Mode            | 566      | 0  | 0 | 2700 | 251_20:39:40 |
| 251_20:39:40 | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280 | 251_21:01:00 |
| 251_21:01:00 | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900 | 251_21:32:40 |
| 251_21:32:40 | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280 | 251_21:54:00 |
| 251_21:54:00 | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900 | 251_22:25:40 |
| 251_22:25:40 | 0 | DFMS | Mode            | 564      | 0  | 0 | 1900 | 251_22:57:20 |
| 251_22:57:20 | 0 | DFMS | Mode            | 566      | 0  | 0 | 2700 | 251_23:42:20 |
| 251_23:42:20 | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280 | 252_00:03:40 |
| 252_00:03:40 | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900 | 252_00:35:20 |
| 252_00:35:20 | 0 | DFMS | Mode            | 502      | 0  | 0 | 1280 | 252_00:56:40 |
| 252_00:56:40 | 0 | DFMS | Mode            | 562      | 0  | 0 | 1900 | 252_01:28:20 |
| 252_01:28:20 | 0 | DFMS | Mode            | 564      | 0  | 0 | 1900 | 252_02:00:00 |
| 252_02:00:00 | 0 | DFMS | Mode            | 566      | 0  | 0 | 2700 | 252_02:45:00 |
| 252_02:45:00 | 0 | DFMS | Mode            | 502      | 0  | 0 | 1400 | 252_03:08:20 |
| 252_03:08:20 | 0 | DFMS | Mode            | 562      | 0  | 0 | 2020 | 252_03:42:00 |

|   |          |  |                 |               |    |    |       |              |
|---|----------|--|-----------------|---------------|----|----|-------|--------------|
| 252_03:42:00  | 0        | DFMS   | Mode            | 564           | 0  | 0  | 1900  | 252_04:13:40 |
| 252_04:13:40  | 0        | DFMS   | Mode            | 566           | 0  | 0  | 2700  | 252_04:58:40 |
| 252_04:58:40  | 0        | DFMS   | Mode            | 502           | 0  | 0  | 1280  | 252_05:20:00 |
| 252_05:20:00  | 0        | DFMS   | Mode            | 562           | 0  | 0  | 1900  | 252_05:51:40 |
| 252_05:51:40  | 0        | DFMS   | Mode            | 502           | 1  | 0  | 2560  | 252_06:34:20 |
| 252_06:35:20  | 1        | DFMS   | Flight sequence | ARNS081B      | 0  | 0  | 10    | 252_06:35:30 |
| 252_06:35:30  | 0        | DFMS   | Mode            | 1             | 0  | 0  | 120   | 252_06:37:30 |
| 252_06:36:30  | 0        | COPS   | Flight sequence | ARNF016B      | 0  | 0  | 60    | 252_06:37:30 |
| 252_06:37:30  | 0        | COPS   | Mode            | 0             | 0  | 0  | 150   | 252_06:40:00 |
| <b>MOCM 08/09/2016 06:40:00 - 08/09/2016 11:00:00</b> |          |  |                 |               |    |    |       |              |
| <b>252_10:59:30</b>                                   | <b>1</b> | <b>COPS tables changed: left (default) filament and MT 6-8 for M326 (automatic only for filament) and 316 (15uA, low ion current) for both</b> |                 |               |    |    |       |              |
| 252_11:00:00  | 1        | COPS   | Mode            | 316           | 1  | 0  | 60    | 252_11:01:00 |
| 252_11:01:00  | 1        | DFMS   | Mode            | 502           | 0  | 0  | 1620  | 252_11:28:00 |
| 252_11:28:00  | 0        | DFMS   | Mode            | 562           | 0  | 0  | 1900  | 252_11:59:40 |
| 252_11:40:00  | 1        | RTOF   | Flight sequence | ARNF004A      | 0  | 0  | 120   | 252_11:42:00 |
| 252_11:42:00  | 0        | RTOF   | Flight sequence | ARNS041A_RTOf | 1  | 0  | 60    | 252_11:43:00 |
| 252_11:43:00  | 0        | RTOF   | Mode            | 521           | 15 | 10 | 38380 | 252_22:22:40 |
| 252_11:55:00  | 1        | COPS   | Flight sequence | ARNF016A      | 0  | 0  | 60    | 252_11:56:00 |
| 252_11:59:40  | 0        | DFMS   | Mode            | 502           | 0  | 0  | 1280  | 252_12:21:00 |
| 252_12:21:00  | 0        | DFMS   | Mode            | 562           | 0  | 0  | 1900  | 252_12:52:40 |
| 252_12:52:40  | 0        | DFMS   | Mode            | 564           | 0  | 0  | 1900  | 252_13:24:20 |
| 252_13:24:20  | 0        | DFMS   | Mode            | 566           | 0  | 0  | 2700  | 252_14:09:20 |
| 252_14:09:20  | 0        | DFMS   | Mode            | 502           | 0  | 0  | 1280  | 252_14:30:40 |
| 252_14:30:40  | 0        | DFMS   | Mode            | 562           | 0  | 0  | 1900  | 252_15:02:20 |
| 252_15:02:20  | 0        | DFMS   | Mode            | 502           | 0  | 0  | 1280  | 252_15:23:40 |
| 252_15:23:40  | 0        | DFMS   | Mode            | 562           | 0  | 0  | 1900  | 252_15:55:20 |
| 252_15:55:20  | 0        | DFMS   | Mode            | 564           | 0  | 0  | 1900  | 252_16:27:00 |
| 252_16:27:00  | 0        | DFMS   | Mode            | 566           | 0  | 0  | 2700  | 252_17:12:00 |
| 252_17:12:00  | 0        | DFMS   | Mode            | 502           | 0  | 0  | 1280  | 252_17:33:20 |
| 252_17:33:20  | 0        | DFMS   | Mode            | 562           | 0  | 0  | 1900  | 252_18:05:00 |
| 252_18:05:00  | 0        | DFMS   | Mode            | 502           | 0  | 0  | 1280  | 252_18:26:20 |
| 252_18:26:20  | 0        | DFMS   | Mode            | 562           | 0  | 0  | 1900  | 252_18:58:00 |
| 252_18:58:00  | 0        | DFMS   | Mode            | 564           | 0  | 0  | 1900  | 252_19:29:40 |
| 252_19:29:40  | 0        | DFMS   | Mode            | 566           | 0  | 0  | 2700  | 252_20:14:40 |
| 252_20:14:40  | 0        | DFMS   | Mode            | 502           | 0  | 0  | 1280  | 252_20:36:00 |

|   |   |      |                 |               |    |   |       |              |
|---|---|------|-----------------|---------------|----|---|-------|--------------|
| 252_20:36:00  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 252_21:07:40 |
| 252_21:07:40  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 252_21:29:00 |
| 252_21:29:00  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 252_22:00:40 |
| 252_22:00:40  | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 252_22:32:20 |
| 252_22:22:40  | 0 | RTOF | Mode            | 181           | 2  | 0 | 740   | 252_22:35:00 |
| 252_22:32:20  | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 252_23:17:20 |
| 252_22:35:00  | 0 | RTOF | Mode            | 1             | 0  | 0 | 240   | 252_22:39:00 |
| 252_22:40:00  | 1 | RTOF | Flight sequence | ARNF014A      | 0  | 0 | 120   | 252_22:42:00 |
| 252_23:17:20  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 252_23:38:40 |
| 252_23:38:40  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 253_00:10:20 |
| 253_00:10:20  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 253_00:31:40 |
| 253_00:31:40  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 253_01:03:20 |
| 253_01:03:20  | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 253_01:35:00 |
| 253_01:35:00  | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 253_02:20:00 |
| 253_02:20:00  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 253_02:41:20 |
| 253_02:41:20  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 253_03:13:00 |
| 253_03:13:00  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 253_03:34:20 |
| 253_03:34:20  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 253_04:06:00 |
| 253_04:06:00  | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 253_04:37:40 |
| 253_04:37:40  | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 253_05:22:40 |
| 253_05:22:40  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 253_05:44:00 |
| 253_05:44:00  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 253_06:15:40 |
| 253_06:15:40  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 253_06:37:00 |
| 253_06:37:00  | 0 | DFMS | Flight sequence | ARNS081B      | 0  | 0 | 10    | 253_06:37:10 |
| 253_06:37:10  | 0 | DFMS | Mode            | 1             | 0  | 0 | 120   | 253_06:39:10 |
| 253_06:38:10  | 0 | COPS | Flight sequence | ARNF016B      | 0  | 0 | 60    | 253_06:39:10 |
| 253_06:39:10  | 0 | COPS | Mode            | 0             | 0  | 0 | 150   | 253_06:41:40 |
| <b>MOCM 09/09/2016 06:40:00 - 09/09/2016 11:06:30</b> |   |      |                 |               |    |   |       |              |
| 253_08:00:00  | 1 | RTOF | Flight sequence | ARNF004A      | 0  | 0 | 120   | 253_08:02:00 |
| 253_08:02:00  | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 1  | 0 | 60    | 253_08:03:00 |
| 253_11:06:30  | 1 | COPS | Mode            | 396           | 1  | 0 | 60    | 253_11:07:30 |
| 253_11:07:30  | 1 | DFMS | Mode            | 502           | 0  | 0 | 1620  | 253_11:34:30 |
| 253_11:08:30  | 1 | RTOF | Mode            | 521           | 15 | 8 | 31560 | 253_19:54:30 |
| 253_11:34:30  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 253_12:06:10 |
| 253_12:01:30  | 1 | COPS | Flight sequence | ARNF016A      | 0  | 0 | 60    | 253_12:02:30 |

|              |   |      |                 |          |   |   |      |              |
|--------------|---|------|-----------------|----------|---|---|------|--------------|
| 253_12:06:10 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 253_12:37:50 |
| 253_12:37:50 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 253_13:22:50 |
| 253_13:22:50 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 253_13:44:10 |
| 253_13:44:10 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 253_14:15:50 |
| 253_14:15:50 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 253_14:37:10 |
| 253_14:37:10 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 253_15:08:50 |
| 253_15:08:50 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 253_15:40:30 |
| 253_15:40:30 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 253_16:25:30 |
| 253_16:25:30 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 253_16:46:50 |
| 253_16:46:50 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 253_17:18:30 |
| 253_17:18:30 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 253_17:39:50 |
| 253_17:39:50 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 253_18:11:30 |
| 253_18:11:30 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 253_18:43:10 |
| 253_18:43:10 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 253_19:28:10 |
| 253_19:28:10 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 253_19:49:30 |
| 253_19:49:30 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 253_20:21:10 |
| 253_19:55:00 | 1 | RTOF | Mode            | 1        | 0 | 0 | 240  | 253_19:59:00 |
| 253_20:00:00 | 1 | RTOF | Flight sequence | ARNF014A | 0 | 0 | 120  | 253_20:02:00 |
| 253_20:21:10 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 253_20:42:30 |
| 253_20:42:30 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 253_21:14:10 |
| 253_21:14:10 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 253_21:45:50 |
| 253_21:45:50 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 253_22:30:50 |
| 253_22:30:50 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 253_22:52:10 |
| 253_22:52:10 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 253_23:23:50 |
| 253_23:23:50 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 253_23:45:10 |
| 253_23:45:10 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 254_00:16:50 |
| 254_00:16:50 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 254_00:48:30 |
| 254_00:48:30 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 254_01:33:30 |
| 254_01:33:30 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 254_01:54:50 |
| 254_01:54:50 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 254_02:26:30 |
| 254_02:26:30 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 254_02:47:50 |
| 254_02:47:50 | 0 | DFMS | Mode            | 562      | 0 | 0 | 2020 | 254_03:21:30 |
| 254_03:21:30 | 0 | DFMS | Mode            | 564      | 0 | 0 | 2020 | 254_03:55:10 |
| 254_03:55:10 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 254_04:40:10 |
| 254_04:40:10 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 254_05:01:30 |



|   |   |      |                 |               |    |   |       |              |
|---|---|------|-----------------|---------------|----|---|-------|--------------|
| 254_05:01:30  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 254_05:33:10 |
| 254_05:33:10  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 254_05:54:30 |
| 254_05:54:30  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 254_06:26:10 |
| 254_06:26:10  | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 254_06:57:50 |
| 254_06:57:50  | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 254_07:42:50 |
| 254_07:42:50  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 254_08:04:10 |
| 254_08:04:10  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 254_08:35:50 |
| 254_08:35:50  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 254_08:57:10 |
| <b>MWOL 10/09/2016 08:45:00 - 10/09/2016 11:01:30</b> |   |      |                 |               |    |   |       |              |
| 254_08:58:10  | 1 | DFMS | Flight sequence | ARNS081B      | 0  | 0 | 10    | 254_08:58:20 |
| 254_08:58:20  | 0 | DFMS | Mode            | 1             | 0  | 0 | 120   | 254_09:00:20 |
| 254_09:00:20  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1620  | 254_09:27:20 |
| 254_09:27:20  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 254_09:59:00 |
| 254_09:59:00  | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 254_10:30:40 |
| 254_10:30:40  | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 254_11:15:40 |
| 254_11:15:40  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 254_11:37:00 |
| 254_11:37:00  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 254_12:08:40 |
| 254_12:02:48  | 1 | RTOF | Flight sequence | ARNF004A      | 0  | 0 | 120   | 254_12:04:48 |
| 254_12:04:48  | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 1  | 0 | 60    | 254_12:05:48 |
| 254_12:05:48  | 0 | RTOF | Mode            | 521           | 15 | 4 | 17920 | 254_17:04:28 |
| 254_12:08:40  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1400  | 254_12:32:00 |
| 254_12:32:00  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 254_13:03:40 |
| 254_13:03:40  | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 254_13:35:20 |
| 254_13:35:20  | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 254_14:20:20 |
| 254_14:20:20  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 254_14:41:40 |
| 254_14:41:40  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 254_15:13:20 |
| 254_15:13:20  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 254_15:34:40 |
| 254_15:34:40  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 254_16:06:20 |
| 254_16:06:20  | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 254_16:38:00 |
| 254_16:38:00  | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 254_17:23:00 |
| 254_17:04:28  | 0 | RTOF | Mode            | 1             | 0  | 0 | 240   | 254_17:08:28 |
| 254_17:10:00  | 1 | RTOF | Flight sequence | ARNF014A      | 0  | 0 | 120   | 254_17:12:00 |
| 254_17:23:00  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 254_17:44:20 |
| 254_17:44:20  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 254_18:16:00 |
| 254_17:55:36  | 1 | RTOF | Flight sequence | ARNF004A      | 0  | 0 | 120   | 254_17:57:36 |

|              |   |      |                 |               |    |   |       |              |
|--------------|---|------|-----------------|---------------|----|---|-------|--------------|
| 254_17:57:36 | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 1  | 0 | 60    | 254_17:58:36 |
| 254_17:58:36 | 0 | RTOF | Mode            | 521           | 15 | 3 | 14510 | 254_22:00:26 |
| 254_18:16:00 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 254_18:37:20 |
| 254_18:37:20 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 254_19:09:00 |
| 254_19:09:00 | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 254_19:40:40 |
| 254_19:40:40 | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 254_20:25:40 |
| 254_20:25:40 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 254_20:47:00 |
| 254_20:47:00 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 254_21:18:40 |
| 254_21:18:40 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 254_21:40:00 |
| 254_21:40:00 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 254_22:11:40 |
| 254_22:00:26 | 0 | RTOF | Mode            | 521           | 10 | 0 | 2360  | 254_22:39:46 |
| 254_22:11:40 | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 254_22:43:20 |
| 254_22:39:46 | 0 | RTOF | Mode            | 1             | 0  | 0 | 240   | 254_22:43:46 |
| 254_22:43:20 | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 254_23:28:20 |
| 254_22:46:00 | 1 | RTOF | Flight sequence | ARNF014A      | 0  | 0 | 120   | 254_22:48:00 |
| 254_23:28:20 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 254_23:49:40 |
| 254_23:49:40 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 255_00:21:20 |
| 255_00:21:20 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 255_00:42:40 |
| 255_00:42:40 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 255_01:14:20 |
| 255_01:14:20 | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 255_01:46:00 |
| 255_01:46:00 | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 255_02:31:00 |
| 255_02:31:00 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 255_02:52:20 |
| 255_02:52:20 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 255_03:24:00 |
| 255_03:24:00 | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 255_03:55:40 |
| 255_03:55:40 | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 255_04:40:40 |
| 255_04:40:40 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 255_05:02:00 |
| 255_05:02:00 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 255_05:33:40 |
| 255_05:33:40 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 255_05:55:00 |
| 255_05:55:00 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 255_06:26:40 |
| 255_06:26:40 | 0 | DFMS | Flight sequence | ARNS081B      | 0  | 0 | 10    | 255_06:26:50 |
| 255_06:26:50 | 0 | DFMS | Mode            | 1             | 0  | 0 | 120   | 255_06:28:50 |
| 255_06:36:30 | 1 | COPS | Flight sequence | ARNF016B      | 0  | 0 | 60    | 255_06:37:30 |
| 255_06:37:30 | 0 | COPS | Mode            | 0             | 0  | 0 | 150   | 255_06:40:00 |

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## STP127

| Start time  | Set Time | Instrument | Mode/Sequence   | Mode/Sequence number | Cycle number | Repetition | Duration [s] | Stop time    |
|---|----------|------------|-----------------|----------------------|--------------|------------|--------------|--------------|
| <b>MOCM 11/09/2016 06:40:00 - 11/09/2016 11:00:00</b>   |          |            |                 |                      |              |            |              |              |
| <b>255_10:59:30 1 COPS default microtips changed to group 6-8 for mode 316 (15uA, low ion current )</b> |          |            |                 |                      |              |            |              |              |
| 255_11:00:00  | 1        | COPS       | Mode            | 316                  | 1            | 0          | 60           | 255_11:01:00 |
| 255_11:01:00  | 1        | DFMS       | Mode            | 502                  | 0            | 0          | 1620         | 255_11:28:00 |
| 255_11:28:00  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 255_11:59:40 |
| 255_11:55:00  | 1        | COPS       | Flight sequence | ARNF016A             | 0            | 0          | 60           | 255_11:56:00 |
| 255_11:59:40  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 255_12:21:00 |
| 255_12:21:00  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 255_12:52:40 |
| 255_12:52:40  | 0        | DFMS       | Mode            | 564                  | 0            | 0          | 1900         | 255_13:24:20 |
| 255_13:24:20  | 0        | DFMS       | Mode            | 566                  | 0            | 0          | 2700         | 255_14:09:20 |
| 255_14:09:20  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 255_14:30:40 |
| 255_14:30:40  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 255_15:02:20 |
| 255_15:02:20  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 255_15:23:40 |
| 255_15:23:40  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 255_15:55:20 |
| 255_15:55:20  | 0        | DFMS       | Mode            | 564                  | 0            | 0          | 1900         | 255_16:27:00 |
| 255_16:27:00  | 0        | DFMS       | Mode            | 566                  | 0            | 0          | 2700         | 255_17:12:00 |
| 255_17:12:00  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 255_17:33:20 |
| 255_17:33:20  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 255_18:05:00 |
| 255_18:05:00  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 255_18:26:20 |
| 255_18:26:20  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 255_18:58:00 |
| 255_18:58:00  | 0        | DFMS       | Mode            | 564                  | 0            | 0          | 1900         | 255_19:29:40 |
| 255_19:29:40  | 0        | DFMS       | Mode            | 566                  | 0            | 0          | 2700         | 255_20:14:40 |
| 255_20:14:40  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 255_20:36:00 |
| 255_20:36:00  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 255_21:07:40 |
| 255_21:07:40  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 255_21:29:00 |
| 255_21:29:00  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 255_22:00:40 |
| 255_22:00:40  | 0        | DFMS       | Mode            | 564                  | 0            | 0          | 1900         | 255_22:32:20 |
| 255_22:32:20  | 0        | DFMS       | Mode            | 566                  | 0            | 0          | 2700         | 255_23:17:20 |
| 255_23:17:20  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 255_23:38:40 |
| 255_23:38:40  | 0        | DFMS       | Mode            | 562                  | 0            | 0          | 1900         | 256_00:10:20 |
| 256_00:10:20  | 0        | DFMS       | Mode            | 502                  | 0            | 0          | 1280         | 256_00:31:40 |

|   |   |   |                 |            |   |   |      |              |      |
|---|---|---|-----------------|------------|---|---|------|--------------|------|
| 256_00:31:40  | 0 | DFMS  | Mode            | 562        | 0 | 0 | 1900 | 256_01:03:20 |      |
| 256_01:03:20  | 0 | DFMS  | Mode            | 564        | 0 | 0 | 1900 | 256_01:35:00 |      |
| 256_01:35:00  | 0 | DFMS  | Mode            | 566        | 0 | 0 | 2700 | 256_02:20:00 |      |
| 256_02:20:00  | 0 | DFMS  | Mode            | 502        | 0 | 0 | 1280 | 256_02:41:20 |      |
| 256_02:41:20  | 0 | DFMS  | Mode            | 562        | 0 | 0 | 1900 | 256_03:13:00 |      |
| 256_03:13:00  | 0 | DFMS  | Mode            | 502        | 0 | 0 | 1280 | 256_03:34:20 |      |
| 256_03:34:20  | 0 | DFMS  | Mode            | 562        | 0 | 0 | 1900 | 256_04:06:00 |      |
| 256_04:06:00  | 0 | DFMS  | Mode            | 564        | 0 | 0 | 1900 | 256_04:37:40 |      |
| 256_04:37:40  | 0 | DFMS  | Mode            | 566        | 0 | 0 | 2700 | 256_05:22:40 |      |
| 256_05:22:40  | 0 | DFMS  | Mode            | 502        | 0 | 0 | 1280 | 256_05:44:00 |      |
| 256_05:44:00  | 0 | DFMS  | Mode            | 562        | 0 | 0 | 1900 | 256_06:15:40 |      |
| 256_06:00:00  | 0 | Go to 4s HK generation mode (E2)  |                 |            |   |   |      |              | PDOP |
| 256_06:05:00  | 0 | Go back to 1 min HK generation (S2)   |                 |            |   |   |      |              |      |
| 256_06:15:40  | 0 | DFMS  | Flight sequence | ARNS081B   | 0 | 0 | 10   | 256_06:15:50 |      |
| 256_06:15:50  | 0 | DFMS  | Mode            | 1          | 0 | 0 | 120  | 256_06:17:50 |      |
| 256_06:36:30  | 1 | COPS  | Flight sequence | ARNF016B   | 0 | 0 | 60   | 256_06:37:30 |      |
| 256_06:37:30  | 0 | COPS  | Mode            | 0          | 0 | 0 | 150  | 256_06:40:00 |      |
| <b>MOCM 12/09/2016 06:40:00 - 12/09/2016 11:06:30</b> |   |   |                 |            |   |   |      |              |      |
| 256_06:42:10  | 1 | DFMS  | Flight sequence | ARNF014B   | 0 | 0 | 125  | 225_06:44:15 |      |
| 256_06:44:15  | 0 | COPS  | Flight sequence | ARNF011A   | 0 | 0 | 210  | 225_06:47:45 |      |
| 256_06:47:45  | 0 | ROSINA  | Flight sequence | ARNF051A   | 0 | 0 | 60   | 225_06:48:45 |      |
| 256_07:10:00  | 1 | ROSINA  | Flight sequence | ARNF050A_M | 0 | 0 | 120  | 225_07:12:00 |      |
| 256_07:12:00  | 0 | ROSINA  | Flight sequence | ARNF002A   | 0 | 0 | 220  | 225_07:15:40 |      |
| 256_07:15:40  | 0 | COPS  | Flight sequence | ARNF015A   | 0 | 0 | 120  | 225_07:17:40 |      |
| 256_07:17:40  | 0 | DFMS  | Flight sequence | ARNF003A   | 0 | 0 | 120  | 225_07:19:40 |      |
| 256_11:05:00  | 1 | <b>COPS default microtips changed to group 6-8 for mode 326 (15uA, low ion current )</b>      |                 |            |   |   |      |              |      |
| 256_11:05:30  | 1 | <b>COPS default microtips changed to group 6-8 for mode 396 (automatic only for filament)</b> |                 |            |   |   |      |              |      |
| 256_11:06:00  | 1 | COPS  | Mode            | 396        | 1 | 0 | 60   | 256_06:41:00 |      |
| 256_11:07:30  | 1 | DFMS  | Mode            | 502        | 0 | 0 | 1620 | 256_11:34:30 |      |
| 256_11:34:30  | 0 | DFMS  | Mode            | 562        | 0 | 0 | 1900 | 256_12:06:10 |      |
| 256_12:01:30  | 1 | COPS  | Flight sequence | ARNF016A   | 0 | 0 | 60   | 256_12:02:30 |      |
| 256_12:06:10  | 0 | DFMS  | Mode            | 564        | 0 | 0 | 1900 | 256_12:37:50 |      |
| 256_12:37:50  | 0 | DFMS  | Mode            | 566        | 0 | 0 | 2700 | 256_13:22:50 |      |
| 256_13:22:50  | 0 | DFMS  | Mode            | 502        | 0 | 0 | 1280 | 256_13:44:10 |      |
| 256_13:30:00  | 1 | RTOF  | Flight sequence | ARNF004A   | 0 | 0 | 120  | 256_13:32:00 |      |

|              |   |      |                 |               |    |    |       |              |
|--------------|---|------|-----------------|---------------|----|----|-------|--------------|
| 256_13:32:00 | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 1  | 0  | 60    | 256_13:33:00 |
| 256_13:33:00 | 0 | RTOF | Mode            | 521           | 14 | 13 | 45670 | 257_02:14:10 |
| 256_13:44:10 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 256_14:15:50 |
| 256_14:15:50 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 256_14:37:10 |
| 256_14:37:10 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 256_15:08:50 |
| 256_15:08:50 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 256_15:40:30 |
| 256_15:40:30 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 256_16:25:30 |
| 256_16:25:30 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 256_16:46:50 |
| 256_16:46:50 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 256_17:18:30 |
| 256_17:18:30 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 256_17:39:50 |
| 256_17:39:50 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 256_18:11:30 |
| 256_18:11:30 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 256_18:43:10 |
| 256_18:43:10 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 256_19:28:10 |
| 256_19:28:10 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 256_19:49:30 |
| 256_19:49:30 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 256_20:21:10 |
| 256_20:21:10 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 256_20:42:30 |
| 256_20:42:30 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 256_21:14:10 |
| 256_21:14:10 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 256_21:45:50 |
| 256_21:45:50 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 256_22:30:50 |
| 256_22:30:50 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 256_22:52:10 |
| 256_22:52:10 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 256_23:23:50 |
| 256_23:23:50 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 256_23:45:10 |
| 256_23:45:10 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 257_00:16:50 |
| 257_00:16:50 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 257_00:48:30 |
| 257_00:48:30 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 257_01:33:30 |
| 257_01:33:30 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 257_01:54:50 |
| 257_01:54:50 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 257_02:26:30 |
| 257_02:14:10 | 0 | RTOF | Mode            | 1             | 0  | 0  | 240   | 257_02:18:10 |
| 257_02:18:10 | 0 | RTOF | Flight sequence | ARNF014A      | 0  | 0  | 120   | 257_02:20:10 |
| 257_02:26:30 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 257_02:47:50 |
| 257_02:47:50 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 257_03:19:30 |
| 257_03:19:30 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 257_03:51:10 |
| 257_03:51:10 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 257_04:36:10 |
| 257_04:36:10 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 257_04:57:30 |
| 257_04:57:30 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 257_05:29:10 |

|   |   |      |                 |          |   |   |      |              |
|---|---|------|-----------------|----------|---|---|------|--------------|
| 257_05:29:10  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 257_05:50:30 |
| 257_05:50:30  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 257_06:22:10 |
| 257_06:22:10  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 257_06:53:50 |
| 257_06:53:50  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 257_07:38:50 |
| 257_07:38:50  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 257_08:00:10 |
| 257_08:00:10  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 257_08:31:50 |
| 257_08:31:50  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 257_08:53:10 |
| <b>MWOL 13/09/2016 08:45:00 - 13/09/2016 11:01:30</b> |   |      |                 |          |   |   |      |              |
| 257_08:53:10  | 0 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 257_08:53:20 |
| 257_08:53:20  | 0 | DFMS | Mode            | 1        | 0 | 0 | 120  | 257_08:55:20 |
| 257_08:55:20  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1620 | 257_09:22:20 |
| 257_09:22:20  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 257_09:54:00 |
| 257_09:54:00  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 257_10:25:40 |
| 257_10:25:40  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 257_11:10:40 |
| 257_11:10:40  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 257_11:32:00 |
| 257_11:32:00  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 257_12:03:40 |
| 257_12:03:40  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 257_12:25:00 |
| 257_12:25:00  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 257_12:56:40 |
| 257_12:56:40  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 257_13:28:20 |
| 257_13:28:20  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 257_14:13:20 |
| 257_14:13:20  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 257_14:34:40 |
| 257_14:34:40  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 257_15:06:20 |
| 257_15:06:20  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 257_15:27:40 |
| 257_15:27:40  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 257_15:59:20 |
| 257_15:59:20  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 257_16:31:00 |
| 257_16:31:00  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 257_17:16:00 |
| 257_17:16:00  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 257_17:37:20 |
| 257_17:37:20  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 257_18:09:00 |
| 257_18:09:00  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 257_18:30:20 |
| 257_18:30:20  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 257_19:02:00 |
| 257_19:02:00  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 257_19:33:40 |
| 257_19:33:40  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 257_20:18:40 |
| 257_20:18:40  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 257_20:40:00 |
| 257_20:40:00  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 257_21:11:40 |
| 257_21:11:40  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 257_21:33:00 |

|   |   |      |                 |          |   |   |      |              |
|---|---|------|-----------------|----------|---|---|------|--------------|
| 257_21:33:00  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 257_22:04:40 |
| 257_22:04:40  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 257_22:36:20 |
| 257_22:36:20  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 257_23:21:20 |
| 257_23:21:20  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 257_23:42:40 |
| 257_23:42:40  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 258_00:14:20 |
| 258_00:14:20  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 258_00:35:40 |
| 258_00:35:40  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 258_01:07:20 |
| 258_01:07:20  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 258_01:39:00 |
| 258_01:39:00  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 258_02:24:00 |
| 258_02:24:00  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 258_02:45:20 |
| 258_02:45:20  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 258_03:17:00 |
| 258_03:17:00  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 258_03:48:40 |
| 258_03:48:40  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 258_04:33:40 |
| 258_04:33:40  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 258_04:55:00 |
| 258_04:55:00  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 258_05:26:40 |
| 258_05:26:40  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 258_05:48:00 |
| 258_05:48:00  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 258_06:19:40 |
| 258_06:19:40  | 0 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 258_06:19:50 |
| 258_06:19:50  | 0 | DFMS | Mode            | 1        | 0 | 0 | 120  | 258_06:21:50 |
| 258_06:36:30  | 1 | COPS | Flight sequence | ARNF016B | 0 | 0 | 60   | 258_06:37:30 |
| 258_06:37:30  | 0 | COPS | Mode            | 0        | 0 | 0 | 150  | 258_06:40:00 |
| <b>MOCM 14/09/2016 06:40:00 - 14/09/2016 11:00:00</b> |   |      |                 |          |   |   |      |              |
| 258_11:00:00  | 1 | COPS | Mode            | 326      | 1 | 0 | 60   | 258_06:41:00 |
| 258_11:01:00  | 1 | DFMS | Mode            | 502      | 0 | 0 | 1620 | 258_11:28:00 |
| 258_11:28:00  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 258_11:59:40 |
| 258_11:55:00  | 1 | COPS | Flight sequence | ARNF016A | 0 | 0 | 60   | 258_11:56:00 |
| 258_11:59:40  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 258_12:21:00 |
| 258_12:21:00  | 0 | DFMS | Mode            | 562      | 0 | 0 | 2020 | 258_12:54:40 |
| 258_12:54:40  | 0 | DFMS | Mode            | 564      | 0 | 0 | 2020 | 258_13:28:20 |
| 258_13:28:20  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 258_14:13:20 |
| 258_14:13:20  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 258_14:34:40 |
| 258_14:34:40  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 258_15:06:20 |
| 258_15:06:20  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 258_15:27:40 |
| 258_15:27:40  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 258_15:59:20 |
| 258_15:59:20  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 258_16:31:00 |

|   |   |      |                 |          |   |   |      |              |
|---|---|------|-----------------|----------|---|---|------|--------------|
| 258_16:31:00  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 258_17:16:00 |
| 258_17:16:00  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 258_17:37:20 |
| 258_17:37:20  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 258_18:09:00 |
| 258_18:09:00  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 258_18:30:20 |
| 258_18:30:20  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 258_19:02:00 |
| 258_19:02:00  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 258_19:33:40 |
| 258_19:33:40  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 258_20:18:40 |
| 258_20:18:40  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 258_20:40:00 |
| 258_20:40:00  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 258_21:11:40 |
| 258_21:11:40  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 258_21:33:00 |
| 258_21:33:00  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 258_22:04:40 |
| 258_22:04:40  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 258_22:36:20 |
| 258_22:36:20  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 258_23:21:20 |
| 258_23:21:20  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 258_23:42:40 |
| 258_23:42:40  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 259_00:14:20 |
| 259_00:14:20  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 259_00:35:40 |
| 259_00:35:40  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 259_01:07:20 |
| 259_01:07:20  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 259_01:39:00 |
| 259_01:39:00  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 259_02:24:00 |
| 259_02:24:00  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 259_02:45:20 |
| 259_02:45:20  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 259_03:17:00 |
| 259_03:17:00  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 259_03:38:20 |
| 259_03:38:20  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 259_04:10:00 |
| 259_04:10:00  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 259_04:41:40 |
| 259_04:41:40  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 259_05:26:40 |
| 259_05:26:40  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 259_05:48:00 |
| 259_05:48:00  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 259_06:19:40 |
| 259_06:19:40  | 0 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 259_06:19:50 |
| 259_06:19:50  | 0 | DFMS | Mode            | 1        | 0 | 0 | 120  | 259_06:21:50 |
| 259_06:36:30  | 1 | COPS | Flight sequence | ARNF016B | 0 | 0 | 60   | 259_06:37:30 |
| 259_06:37:30  | 0 | COPS | Mode            | 0        | 0 | 0 | 150  | 259_06:40:00 |
| <b>MOCM 15/09/2016 06:40:00 - 15/09/2016 11:06:30</b> |   |      |                 |          |   |   |      |              |
| 259_11:06:00  | 1 | COPS | Mode            | 396      | 1 | 0 | 60   | 259_11:07:00 |
| 259_11:07:00  | 1 | DFMS | Mode            | 50       | 1 | 0 | 1200 | 259_11:27:00 |
| 259_11:27:00  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2820 | 259_12:14:00 |



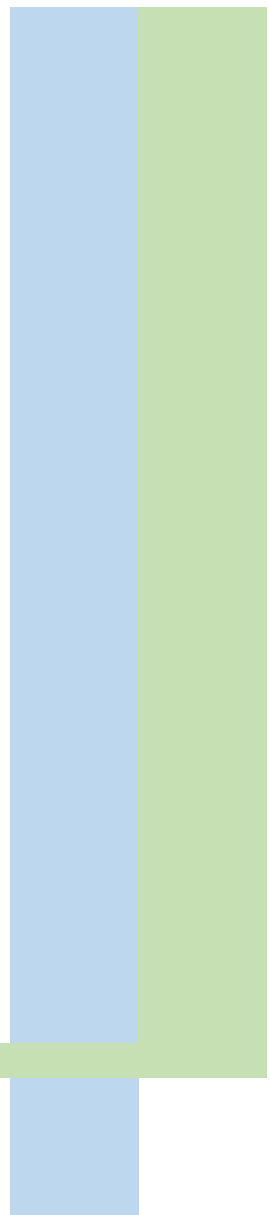
|              |   |      |                 |               |    |   |       |              |
|--------------|---|------|-----------------|---------------|----|---|-------|--------------|
| 259_12:00:00 | 1 | COPS | Flight sequence | ARNF016A      | 0  | 0 | 60    | 259_12:01:00 |
| 259_12:14:00 | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 259_12:45:40 |
| 259_12:45:40 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 259_13:07:00 |
| 259_13:07:00 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 259_13:38:40 |
| 259_13:30:00 | 1 | RTOF | Flight sequence | ARNF004A      | 0  | 0 | 120   | 259_13:32:00 |
| 259_13:32:00 | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 1  | 0 | 60    | 259_13:33:00 |
| 259_13:33:00 | 0 | RTOF | Mode            | 521           | 14 | 8 | 29670 | 259_21:47:30 |
| 259_13:38:40 | 0 | DFMS | Mode            | 50            | 0  | 0 | 720   | 259_13:50:40 |
| 259_13:50:40 | 0 | DFMS | Mode            | 564           | 0  | 0 | 2020  | 259_14:24:20 |
| 259_14:24:20 | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 259_15:09:20 |
| 259_15:09:20 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 259_15:30:40 |
| 259_15:30:40 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 259_16:02:20 |
| 259_16:02:20 | 0 | DFMS | Mode            | 50            | 1  | 0 | 1320  | 259_16:24:20 |
| 259_16:24:20 | 0 | DFMS | Mode            | 566           | 0  | 0 | 2820  | 259_17:11:20 |
| 259_17:11:20 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 259_17:32:40 |
| 259_17:32:40 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 259_18:04:20 |
| 259_18:04:20 | 0 | DFMS | Mode            | 50            | 1  | 0 | 1320  | 259_18:26:20 |
| 259_18:26:20 | 0 | DFMS | Mode            | 564           | 0  | 0 | 2020  | 259_19:00:00 |
| 259_19:00:00 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 259_19:21:20 |
| 259_19:21:20 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 259_19:53:00 |
| 259_19:53:00 | 0 | DFMS | Mode            | 50            | 2  | 0 | 1920  | 259_20:25:00 |
| 259_20:25:00 | 0 | DFMS | Mode            | 566           | 0  | 0 | 2820  | 259_21:12:00 |
| 259_21:12:00 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 259_21:33:20 |
| 259_21:33:20 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 259_22:05:00 |
| 259_21:47:30 | 0 | RTOF | Mode            | 1             | 0  | 0 | 240   | 259_21:51:30 |
| 259_21:51:30 | 0 | RTOF | Flight sequence | ARNF014A      | 0  | 0 | 120   | 259_21:53:30 |
| 259_22:05:00 | 0 | DFMS | Mode            | 50            | 2  | 0 | 1920  | 259_22:37:00 |
| 259_22:37:00 | 0 | DFMS | Mode            | 564           | 0  | 0 | 2020  | 259_23:10:40 |
| 259_23:10:40 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 259_23:32:00 |
| 259_23:32:00 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 260_00:03:40 |
| 260_00:03:40 | 0 | DFMS | Mode            | 50            | 2  | 0 | 1920  | 260_00:35:40 |
| 260_00:35:40 | 0 | DFMS | Mode            | 566           | 0  | 0 | 2820  | 260_01:22:40 |
| 260_01:22:40 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 260_01:54:20 |
| 260_01:54:20 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 260_02:15:40 |
| 260_02:15:40 | 0 | DFMS | Mode            | 50            | 2  | 0 | 1920  | 260_02:47:40 |

|   |   |      |                 |               |    |   |       |              |
|---|---|------|-----------------|---------------|----|---|-------|--------------|
| 260_02:47:40  | 0 | DFMS | Mode            | 564           | 0  | 0 | 2020  | 260_03:21:20 |
| 260_03:21:20  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 260_03:53:00 |
| 260_03:53:00  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 260_04:14:20 |
| 260_04:14:20  | 0 | DFMS | Mode            | 50            | 2  | 0 | 1920  | 260_04:46:20 |
| 260_04:46:20  | 0 | DFMS | Mode            | 566           | 0  | 0 | 2820  | 260_05:33:20 |
| 260_05:33:20  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 260_05:54:40 |
| 260_05:54:40  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 260_06:26:20 |
| 260_06:26:20  | 0 | DFMS | Mode            | 50            | 3  | 0 | 2520  | 260_07:08:20 |
| 260_07:00:00  | 1 | RTOF | Flight sequence | ARNF004A      | 0  | 0 | 120   | 260_07:02:00 |
| 260_07:02:00  | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 1  | 0 | 60    | 260_07:03:00 |
| 260_07:03:00  | 0 | RTOF | Mode            | 521           | 15 | 9 | 34970 | 260_16:45:50 |
| 260_07:08:20  | 0 | DFMS | Mode            | 564           | 0  | 0 | 2020  | 260_07:42:00 |
| 260_07:42:00  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 260_08:03:20 |
| 260_08:03:20  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 260_08:35:00 |
| 260_08:35:00  | 0 | DFMS | Mode            | 50            | 2  | 0 | 1920  | 260_09:07:00 |
| <b>MWOL 16/09/2016 08:45:00 - 16/09/2016 11:01:30</b> |   |      |                 |               |    |   |       |              |
| 260_09:07:00  | 0 | DFMS | Mode            | 564           | 0  | 0 | 2020  | 260_09:40:40 |
| 260_09:40:40  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1400  | 260_10:04:00 |
| 260_10:04:00  | 0 | DFMS | Mode            | 562           | 0  | 0 | 2020  | 260_10:37:40 |
| 260_10:37:40  | 0 | DFMS | Mode            | 51            | 0  | 0 | 3720  | 260_11:39:40 |
| 260_11:39:40  | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 260_12:24:40 |
| 260_12:24:40  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 260_12:46:00 |
| 260_12:46:00  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 260_13:17:40 |
| 260_13:17:40  | 0 | DFMS | Mode            | 51            | 0  | 0 | 3720  | 260_14:19:40 |
| 260_14:19:40  | 0 | DFMS | Mode            | 564           | 0  | 0 | 2450  | 260_15:00:30 |
| 260_15:00:30  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 260_15:21:50 |
| 260_15:21:50  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 260_15:53:30 |
| 260_15:53:30  | 0 | DFMS | Mode            | 51            | 8  | 0 | 32520 | 261_00:55:30 |
| 260_16:45:50  | 0 | RTOF | Mode            | 1             | 0  | 0 | 240   | 260_16:49:50 |
| 260_16:49:50  | 0 | RTOF | Flight sequence | ARNF014A      | 0  | 0 | 120   | 260_16:51:50 |
| 261_00:55:30  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1620  | 261_01:22:30 |
| 261_01:22:30  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 261_01:54:10 |
| 261_01:54:10  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 261_02:15:30 |
| 261_02:15:30  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 261_02:47:10 |
| 261_02:47:10  | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 261_03:18:50 |

|   |   |      |                 |               |    |   |       |              |
|---|---|------|-----------------|---------------|----|---|-------|--------------|
| 261_03:18:50  | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 261_04:03:50 |
| 261_04:03:50  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 261_04:25:10 |
| 261_04:25:10  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 261_04:56:50 |
| 261_04:56:50  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 261_05:18:10 |
| 261_05:18:10  | 0 | DFMS | Mode            | 562           | 0  | 0 | 2020  | 261_05:51:50 |
| 261_05:51:50  | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 261_06:23:30 |
| 261_06:23:30  | 0 | DFMS | Flight sequence | ARNS081B      | 0  | 0 | 10    | 261_06:23:40 |
| 261_06:23:40  | 0 | DFMS | Mode            | 1             | 0  | 0 | 120   | 261_06:25:40 |
| 261_06:36:30  | 1 | COPS | Flight sequence | ARNF016B      | 0  | 0 | 60    | 261_06:37:30 |
| 261_06:37:30  | 0 | COPS | Mode            | 0             | 0  | 0 | 150   | 261_06:40:00 |
| <b>MOCM 17/09/2016 06:40:00 - 17/09/2016 11:00:00</b> |   |      |                 |               |    |   |       |              |
| 261_11:00:00  | 1 | COPS | Mode            | 326           | 1  | 0 | 60    | 261_11:01:00 |
| 261_11:01:00  | 1 | DFMS | Mode            | 502           | 0  | 0 | 1620  | 261_11:28:00 |
| 261_11:28:00  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 261_11:59:40 |
| 261_11:55:00  | 1 | COPS | Flight sequence | ARNF016A      | 0  | 0 | 60    | 261_11:56:00 |
| 261_11:56:00  | 0 | RTOF | Mode            | 521           | 12 | 0 | 3650  | 261_12:56:50 |
| 261_11:59:40  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 261_12:21:00 |
| 261_12:21:00  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 261_12:52:40 |
| 261_12:52:40  | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 261_13:24:20 |
| 261_13:24:20  | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 261_14:09:20 |
| 261_14:09:20  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 261_14:30:40 |
| 261_14:30:40  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 261_15:02:20 |
| 261_15:02:20  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 261_15:23:40 |
| 261_15:23:40  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 261_15:55:20 |
| 261_15:55:20  | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 261_16:27:00 |
| 261_16:27:00  | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 261_17:12:00 |
| 261_17:12:00  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 261_17:33:20 |
| 261_17:33:20  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 261_18:05:00 |
| 261_18:05:00  | 0 | DFMS | Mode            | 502           | 0  | 0 | 1280  | 261_18:26:20 |
| 261_18:26:20  | 0 | DFMS | Mode            | 562           | 0  | 0 | 1900  | 261_18:58:00 |
| 261_18:30:00  | 1 | RTOF | Flight sequence | ARNF004A      | 0  | 0 | 120   | 261_18:32:00 |
| 261_18:32:00  | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 1  | 0 | 60    | 261_18:33:00 |
| 261_18:33:00  | 0 | RTOF | Mode            | 521           | 14 | 3 | 12800 | 261_22:06:20 |
| 261_18:58:00  | 0 | DFMS | Mode            | 564           | 0  | 0 | 1900  | 261_19:29:40 |
| 261_19:29:40  | 0 | DFMS | Mode            | 566           | 0  | 0 | 2700  | 261_20:14:40 |

|   |   |      |                 |               |    |    |       |              |
|---|---|------|-----------------|---------------|----|----|-------|--------------|
| 261_20:14:40  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 261_20:36:00 |
| 261_20:36:00  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 261_21:07:40 |
| 261_21:07:40  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 261_21:29:00 |
| 261_21:29:00  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 261_22:00:40 |
| 261_22:00:40  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 261_22:32:20 |
| 261_22:06:20  | 0 | RTOF | Mode            | 1             | 0  | 0  | 240   | 261_22:10:20 |
| 261_22:10:20  | 0 | RTOF | Flight sequence | ARNF014A      | 0  | 0  | 120   | 261_22:12:20 |
| 261_22:32:20  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 261_23:17:20 |
| 261_23:17:20  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 261_23:38:40 |
| 261_23:38:40  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 262_00:10:20 |
| 262_00:10:20  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 262_00:31:40 |
| 262_00:31:40  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 262_01:03:20 |
| 262_01:03:20  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 262_01:35:00 |
| 262_01:35:00  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 262_02:20:00 |
| 262_02:20:00  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 262_02:41:20 |
| 262_02:41:20  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 262_03:13:00 |
| 262_03:13:00  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 262_03:34:20 |
| 262_03:34:20  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 262_04:06:00 |
| 262_04:06:00  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 262_04:37:40 |
| 262_04:37:40  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 262_05:22:40 |
| 262_05:22:40  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 262_05:44:00 |
| 262_05:44:00  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 262_06:15:40 |
| 262_06:15:40  | 0 | DFMS | Flight sequence | ARNS081B      | 0  | 0  | 10    | 262_06:15:50 |
| 262_06:15:50  | 0 | DFMS | Mode            | 1             | 0  | 0  | 120   | 262_06:17:50 |
| 262_06:36:30  | 1 | COPS | Flight sequence | ARNF016B      | 0  | 0  | 60    | 262_06:37:30 |
| 262_06:37:30  | 0 | COPS | Mode            | 0             | 0  | 0  | 150   | 262_06:40:00 |
| <b>MOCM 18/09/2016 06:40:00 - 18/09/2016 11:06:30</b> |   |      |                 |               |    |    |       |              |
| 262_11:06:00  | 1 | COPS | Mode            | 396           | 1  | 0  | 60    | 262_06:41:00 |
| 262_11:07:30  | 1 | DFMS | Mode            | 502           | 0  | 0  | 1620  | 262_11:34:30 |
| 262_11:20:00  | 1 | RTOF | Flight sequence | ARNF004A      | 0  | 0  | 120   | 262_11:22:00 |
| 262_11:22:00  | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 1  | 0  | 60    | 262_11:23:00 |
| 262_11:23:04  | 1 | RTOF | Mode            | 521           | 15 | 15 | 55430 | 263_02:46:54 |
| 262_11:34:30  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 262_12:06:10 |
| 262_12:01:30  | 1 | COPS | Flight sequence | ARNF016A      | 0  | 0  | 60    | 262_12:02:30 |
| 262_12:06:10  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 262_12:37:50 |

|              |   |      |                 |          |   |   |      |              |
|--------------|---|------|-----------------|----------|---|---|------|--------------|
| 262_12:37:50 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 262_13:22:50 |
| 262_13:22:50 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 262_13:44:10 |
| 262_13:44:10 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 262_14:15:50 |
| 262_14:15:50 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 262_14:37:10 |
| 262_14:37:10 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 262_15:08:50 |
| 262_15:08:50 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 262_15:40:30 |
| 262_15:40:30 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 262_16:25:30 |
| 262_16:25:30 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 262_16:46:50 |
| 262_16:46:50 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 262_17:18:30 |
| 262_17:18:30 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 262_17:39:50 |
| 262_17:39:50 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 262_18:11:30 |
| 262_18:11:30 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 262_18:43:10 |
| 262_18:43:10 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 262_19:28:10 |
| 262_19:28:10 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 262_19:49:30 |
| 262_19:49:30 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 262_20:21:10 |
| 262_20:21:10 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 262_20:42:30 |
| 262_20:42:30 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 262_21:14:10 |
| 262_21:14:10 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 262_21:45:50 |
| 262_21:45:50 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 262_22:30:50 |
| 262_22:30:50 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 262_22:52:10 |
| 262_22:52:10 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 262_23:23:50 |
| 262_23:23:50 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 262_23:45:10 |
| 262_23:45:10 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 263_00:16:50 |
| 263_00:16:50 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 263_00:48:30 |
| 263_00:48:30 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 263_01:33:30 |
| 263_01:33:30 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 263_01:54:50 |
| 263_01:54:50 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 263_02:26:30 |
| 263_02:26:30 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 263_02:47:50 |
| 263_02:46:54 | 0 | RTOF | Mode            | 1        | 0 | 0 | 240  | 263_02:50:54 |
| 263_02:47:50 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 263_03:19:30 |
| 263_02:50:54 | 0 | RTOF | Flight sequence | ARNF014A | 0 | 0 | 120  | 263_02:52:54 |
| 263_03:19:30 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1900 | 263_03:51:10 |
| 263_03:51:10 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2700 | 263_04:36:10 |
| 263_04:36:10 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1280 | 263_04:57:30 |
| 263_04:57:30 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1900 | 263_05:29:10 |



|   |   |      |                 |               |    |    |       |              |
|---|---|------|-----------------|---------------|----|----|-------|--------------|
| 263_05:29:10  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 263_05:50:30 |
| 263_05:50:30  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 263_06:22:10 |
| 263_06:22:10  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 263_06:53:50 |
| 263_06:53:50  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 263_07:38:50 |
| 263_07:38:50  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 263_08:00:10 |
| 263_08:00:10  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 263_08:31:50 |
| 263_08:31:50  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 263_08:53:10 |
| <b>MWOL 19/09/2016 08:45:00 - 19/09/2016 11:01:30</b> |   |      |                 |               |    |    |       |              |
| 263_08:53:10  | 0 | DFMS | Flight sequence | ARNS081B      | 0  | 0  | 10    | 263_08:53:20 |
| 263_08:53:20  | 0 | DFMS | Mode            | 1             | 0  | 0  | 120   | 263_08:55:20 |
| 263_08:55:20  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1620  | 263_09:22:20 |
| 263_09:22:20  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 263_09:54:00 |
| 263_09:54:00  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 263_10:25:40 |
| 263_10:25:40  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 263_11:10:40 |
| 263_11:10:40  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 263_11:32:00 |
| 263_11:32:00  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 263_12:03:40 |
| 263_11:55:00  | 1 | RTOF | Flight sequence | ARNF004A      | 0  | 0  | 120   | 263_11:57:00 |
| 263_11:57:00  | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 1  | 0  | 60    | 263_11:58:00 |
| 263_11:58:00  | 0 | RTOF | Mode            | 521           | 15 | 18 | 65660 | 264_06:12:20 |
| 263_12:03:40  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 263_12:25:00 |
| 263_12:25:00  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 263_12:56:40 |
| 263_12:56:40  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 263_13:28:20 |
| 263_13:28:20  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 263_14:13:20 |
| 263_14:13:20  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 263_14:34:40 |
| 263_14:34:40  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 263_15:06:20 |
| 263_15:06:20  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 263_15:27:40 |
| 263_15:27:40  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 263_15:59:20 |
| 263_15:59:20  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 263_16:31:00 |
| 263_16:31:00  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 263_17:16:00 |
| 263_17:16:00  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 263_17:37:20 |
| 263_17:37:20  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 263_18:09:00 |
| 263_18:09:00  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1280  | 263_18:30:20 |
| 263_18:30:20  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1900  | 263_19:02:00 |
| 263_19:02:00  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1900  | 263_19:33:40 |
| 263_19:33:40  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2700  | 263_20:18:40 |

|              |   |        |                 |          |   |   |      |              |
|--------------|---|--------|-----------------|----------|---|---|------|--------------|
| 263_20:18:40 | 0 | DFMS   | Mode            | 502      | 0 | 0 | 1280 | 263_20:40:00 |
| 263_20:40:00 | 0 | DFMS   | Mode            | 562      | 0 | 0 | 1900 | 263_21:11:40 |
| 263_21:11:40 | 0 | DFMS   | Mode            | 502      | 0 | 0 | 1280 | 263_21:33:00 |
| 263_21:33:00 | 0 | DFMS   | Mode            | 562      | 0 | 0 | 1900 | 263_22:04:40 |
| 263_22:04:40 | 0 | DFMS   | Mode            | 564      | 0 | 0 | 1900 | 263_22:36:20 |
| 263_22:36:20 | 0 | DFMS   | Mode            | 566      | 0 | 0 | 2700 | 263_23:21:20 |
| 263_23:21:20 | 0 | DFMS   | Mode            | 502      | 0 | 0 | 1280 | 263_23:42:40 |
| 263_23:42:40 | 0 | DFMS   | Mode            | 562      | 0 | 0 | 1900 | 264_00:14:20 |
| 264_00:14:20 | 0 | DFMS   | Mode            | 502      | 0 | 0 | 1280 | 264_00:35:40 |
| 264_00:35:40 | 0 | DFMS   | Mode            | 562      | 0 | 0 | 1900 | 264_01:07:20 |
| 264_01:07:20 | 0 | DFMS   | Mode            | 564      | 0 | 0 | 1900 | 264_01:39:00 |
| 264_01:39:00 | 0 | DFMS   | Mode            | 566      | 0 | 0 | 2700 | 264_02:24:00 |
| 264_02:24:00 | 0 | DFMS   | Mode            | 502      | 0 | 0 | 1280 | 264_02:45:20 |
| 264_02:45:20 | 0 | DFMS   | Mode            | 562      | 0 | 0 | 1900 | 264_03:17:00 |
| 264_03:17:00 | 0 | DFMS   | Mode            | 564      | 0 | 0 | 1900 | 264_03:48:40 |
| 264_03:48:40 | 0 | DFMS   | Mode            | 566      | 0 | 0 | 2700 | 264_04:33:40 |
| 264_04:33:40 | 0 | DFMS   | Mode            | 502      | 0 | 0 | 1280 | 264_04:55:00 |
| 264_04:55:00 | 0 | DFMS   | Mode            | 562      | 0 | 0 | 1900 | 264_05:26:40 |
| 264_05:26:40 | 0 | DFMS   | Mode            | 502      | 0 | 0 | 1280 | 264_05:48:00 |
| 264_05:48:00 | 0 | DFMS   | Mode            | 562      | 0 | 0 | 1900 | 264_06:19:40 |
| 264_06:19:40 | 0 | ROSINA | Flight sequence | ZRNP2002 | 0 | 0 | 240  | 264_06:23:40 |
| 264_06:23:40 | 0 | RTOF   | Flight sequence | ARNF014A | 0 | 0 | 120  | 264_06:25:40 |
| 264_06:36:30 | 1 | COPS   | Flight sequence | ARNF016B | 0 | 0 | 60   | 264_06:37:30 |
| 264_06:37:30 | 0 | COPS   | Mode            | 0        | 0 | 0 | 150  | 264_06:40:00 |

MOCM 20/09/2016 06:40:00 - 20/09/2016 11:00:00

## STP128

| Start time                                     | Set Time | Instrument   | Mode/Sequence | Mode/Sequence number | Cycle number | Repetition | Duration [s] | Stop time    |
|--|----------|--|---------------|----------------------|--------------|------------|--------------|--------------|
| MOCM 20/09/2016 06:40:00 - 20/09/2016 11:00:00 |          |  |               |                      |              |            |              |              |
| 264_06:50:00                                   | 1        | Set RTOF MCP_SS = 2'900V as default value (= in the EEPROM)                      |               |                      |              |            |              |              |
| 264_10:59:00                                   | 1        | COPS default microtips changed to group 6-8 for mode 326 (15uA, low ion current) |               |                      |              |            |              |              |
| 264_11:00:00                                   | 1        | COPS   | Mode          | 326                  | 1            | 0          | 60           | 264_11:01:00 |
| 264_11:01:00                                   | 1        | DFMS   | Mode          | 502                  | 0            | 0          | 1620         | 264_11:28:00 |

|              |   |      |                 |          |   |   |      |              |
|--------------|---|------|-----------------|----------|---|---|------|--------------|
| 264_11:28:00 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 264_11:54:45 |
| 264_11:55:00 | 1 | COPS | Flight sequence | ARNF016A | 0 | 0 | 60   | 264_11:56:00 |
| 264_11:56:00 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 264_12:15:15 |
| 264_12:15:15 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 264_12:42:00 |
| 264_12:42:00 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1673 | 264_13:09:53 |
| 264_13:09:53 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2517 | 264_13:51:50 |
| 264_13:51:50 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 264_14:11:05 |
| 264_14:11:05 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 264_14:37:50 |
| 264_14:37:50 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 264_14:57:05 |
| 264_14:57:05 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 264_15:23:50 |
| 264_15:23:50 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1673 | 264_15:51:43 |
| 264_15:51:43 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2517 | 264_16:33:40 |
| 264_16:33:40 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 264_16:52:55 |
| 264_16:52:55 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 264_17:19:40 |
| 264_17:19:40 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 264_17:38:55 |
| 264_17:38:55 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 264_18:05:40 |
| 264_18:05:40 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1673 | 264_18:33:33 |
| 264_18:33:33 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2517 | 264_19:15:30 |
| 264_19:15:30 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 264_19:34:45 |
| 264_19:34:45 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 264_20:01:30 |
| 264_20:01:30 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 264_20:20:45 |
| 264_20:20:45 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 264_20:47:30 |
| 264_20:47:30 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1673 | 264_21:15:23 |
| 264_21:15:23 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2517 | 264_21:57:20 |
| 264_21:57:20 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 264_22:16:35 |
| 264_22:16:35 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 264_22:43:20 |
| 264_22:43:20 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 264_23:02:35 |
| 264_23:02:35 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 264_23:29:20 |
| 264_23:29:20 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1673 | 264_23:57:13 |
| 264_23:57:13 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2517 | 265_00:39:10 |
| 265_00:39:10 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 265_00:58:25 |
| 265_00:58:25 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 265_01:25:10 |
| 265_01:25:10 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 265_01:44:25 |
| 265_01:44:25 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 265_02:11:10 |
| 265_02:11:10 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1673 | 265_02:39:03 |



|   |   |      |                 |               |    |    |       |              |
|---|---|------|-----------------|---------------|----|----|-------|--------------|
| 265_02:39:03  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2517  | 265_03:21:00 |
| 265_03:21:00  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1155  | 265_03:40:15 |
| 265_03:40:15  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1605  | 265_04:07:00 |
| 265_04:07:00  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1155  | 265_04:26:15 |
| 265_04:26:15  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1605  | 265_04:53:00 |
| 265_04:53:00  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1673  | 265_05:20:53 |
| 265_05:20:53  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2517  | 265_06:02:50 |
| 265_06:02:50  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1155  | 265_06:22:05 |
| 265_06:34:20  | 1 | DFMS | Flight sequence | ARNS081B      | 0  | 0  | 10    | 265_06:34:30 |
| 265_06:34:30  | 0 | DFMS | Mode            | 1             | 0  | 0  | 120   | 265_06:36:30 |
| 265_06:36:30  | 1 | COPS | Flight sequence | ARNF016B      | 0  | 0  | 60    | 265_06:37:30 |
| 265_06:37:30  | 0 | COPS | Mode            | 0             | 0  | 0  | 150   | 265_06:40:00 |
| <b>MOCM 21/09/2016 06:40:00 - 21/09/2016 11:06:30</b> |   |      |                 |               |    |    |       |              |
| 265_11:06:30  | 1 | COPS | Mode            | 326           | 1  | 0  | 60    | 265_11:07:30 |
| 265_11:07:30  | 1 | DFMS | Mode            | 502           | 0  | 0  | 1620  | 265_11:34:30 |
| 265_11:08:30  | 1 | RTOF | Flight sequence | ARNF004A      | 0  | 0  | 120   | 265_11:10:30 |
| 265_11:10:30  | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 1  | 0  | 60    | 265_11:11:30 |
| 265_11:11:30  | 0 | RTOF | Mode            | 521           | 15 | 15 | 55430 | 266_02:35:20 |
| 265_11:34:30  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1605  | 265_12:01:15 |
| 265_12:01:30  | 1 | COPS | Flight sequence | ARNF016A      | 0  | 0  | 60    | 265_12:02:30 |
| 265_12:02:30  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1673  | 265_12:30:23 |
| 265_12:30:23  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2517  | 265_13:12:20 |
| 265_13:12:20  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1155  | 265_13:31:35 |
| 265_13:31:35  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1605  | 265_13:58:20 |
| 265_13:58:20  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1155  | 265_14:17:35 |
| 265_14:17:35  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1605  | 265_14:44:20 |
| 265_14:44:20  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1673  | 265_15:12:13 |
| 265_15:12:13  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2517  | 265_15:54:10 |
| 265_15:54:10  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1155  | 265_16:13:25 |
| 265_16:13:25  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1605  | 265_16:40:10 |
| 265_16:40:10  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1155  | 265_16:59:25 |
| 265_16:59:25  | 0 | DFMS | Mode            | 562           | 0  | 0  | 1605  | 265_17:26:10 |
| 265_17:26:10  | 0 | DFMS | Mode            | 564           | 0  | 0  | 1673  | 265_17:54:03 |
| 265_17:54:03  | 0 | DFMS | Mode            | 566           | 0  | 0  | 2517  | 265_18:36:00 |
| 265_18:36:00  | 0 | DFMS | Mode            | 502           | 0  | 0  | 1155  | 265_18:55:15 |

|                     |   |                                      |                 |               |    |   |       |              |  |  |
|---------------------|---|--------------------------------------|-----------------|---------------|----|---|-------|--------------|--|--|
| 265_18:55:15        | 0 | DFMS                                 | Mode            | 562           | 0  | 0 | 1605  | 265_19:22:00 |  |  |
| 265_19:22:00        | 0 | DFMS                                 | Mode            | 502           | 0  | 0 | 1155  | 265_19:41:15 |  |  |
| 265_19:41:15        | 0 | DFMS                                 | Mode            | 562           | 0  | 0 | 1605  | 265_20:08:00 |  |  |
| 265_20:08:00        | 0 | DFMS                                 | Mode            | 564           | 0  | 0 | 1673  | 265_20:35:53 |  |  |
| 265_20:35:53        | 0 | DFMS                                 | Mode            | 566           | 0  | 0 | 2517  | 265_21:17:50 |  |  |
| 265_21:17:50        | 0 | DFMS                                 | Mode            | 502           | 0  | 0 | 1155  | 265_21:37:05 |  |  |
| 265_21:37:05        | 0 | DFMS                                 | Mode            | 562           | 0  | 0 | 1605  | 265_22:03:50 |  |  |
| 265_22:03:50        | 0 | DFMS                                 | Mode            | 502           | 0  | 0 | 1155  | 265_22:23:05 |  |  |
| 265_22:23:05        | 0 | DFMS                                 | Mode            | 562           | 0  | 0 | 1605  | 265_22:49:50 |  |  |
| 265_22:49:50        | 0 | DFMS                                 | Mode            | 564           | 0  | 0 | 1673  | 265_23:17:43 |  |  |
| 265_23:17:43        | 0 | DFMS                                 | Mode            | 566           | 0  | 0 | 2517  | 265_23:59:40 |  |  |
| 265_23:59:40        | 0 | DFMS                                 | Mode            | 502           | 0  | 0 | 1155  | 266_00:18:55 |  |  |
| 266_00:18:55        | 0 | DFMS                                 | Mode            | 562           | 0  | 0 | 1605  | 266_00:45:40 |  |  |
| 266_00:45:40        | 0 | DFMS                                 | Mode            | 502           | 0  | 0 | 1155  | 266_01:04:55 |  |  |
| 266_01:04:55        | 0 | DFMS                                 | Mode            | 562           | 0  | 0 | 1605  | 266_01:31:40 |  |  |
| 266_01:31:40        | 0 | DFMS                                 | Mode            | 564           | 0  | 0 | 1673  | 266_01:59:33 |  |  |
| 266_01:59:33        | 0 | DFMS                                 | Mode            | 566           | 0  | 0 | 2517  | 266_02:41:30 |  |  |
| 266_02:35:20        | 0 | RTOF                                 | Mode            | 521           | 4  | 0 | 1100  | 266_02:53:40 |  |  |
| 266_02:41:30        | 0 | DFMS                                 | Mode            | 502           | 0  | 0 | 1155  | 266_03:00:45 |  |  |
| 266_02:56:00        | 1 | RTOF                                 | Mode            | 1             | 0  | 0 | 240   | 266_03:00:00 |  |  |
| 266_03:00:00        | 0 | RTOF                                 | Flight sequence | ARNF014A      | 0  | 0 | 120   | 266_03:02:00 |  |  |
| 266_03:02:00        | 0 | DFMS                                 | Mode            | 562           | 0  | 0 | 1605  | 266_03:28:45 |  |  |
| 266_03:28:45        | 0 | DFMS                                 | Mode            | 502           | 0  | 0 | 1155  | 266_03:48:00 |  |  |
| 266_03:48:00        | 0 | DFMS                                 | Mode            | 562           | 0  | 0 | 1605  | 266_04:14:45 |  |  |
| 266_04:14:45        | 0 | DFMS                                 | Mode            | 564           | 0  | 0 | 1673  | 266_04:42:38 |  |  |
| 266_04:30:00        | 1 | RTOF                                 | Flight sequence | ARNF004A      | 0  | 0 | 120   | 266_04:32:00 |  |  |
| 266_04:32:00        | 0 | RTOF                                 | Flight sequence | ARNS041A_RTOF | 1  | 0 | 60    | 266_04:33:00 |  |  |
| 266_04:33:00        | 0 | RTOF                                 | Mode            | 521           | 12 | 4 | 14770 | 266_08:39:10 |  |  |
| 266_04:42:38        | 0 | DFMS                                 | Mode            | 566           | 0  | 0 | 2517  | 266_05:24:35 |  |  |
| 266_05:24:35        | 0 | DFMS                                 | Mode            | 502           | 0  | 0 | 1155  | 266_05:43:50 |  |  |
| <b>266_05:35:30</b> |   | <b>Set COPS offset every 14 days</b> |                 |               |    |   |       |              |  |  |
| 266_05:43:50        | 0 | DFMS                                 | Mode            | 562           | 0  | 0 | 1605  | 266_06:10:35 |  |  |
| 266_06:10:35        | 0 | DFMS                                 | Mode            | 502           | 0  | 0 | 1155  | 266_06:29:50 |  |  |
| 266_06:29:50        | 0 | DFMS                                 | Mode            | 562           | 0  | 0 | 1605  | 266_06:56:35 |  |  |
| 266_06:56:35        | 0 | DFMS                                 | Mode            | 564           | 0  | 0 | 1673  | 266_07:24:28 |  |  |

**COPS  
offset  
every 14  
days (i.e.  
no COPS  
offset**

|   |   |      |                 |          |   |   |      |              |  |  |                   |  |
|---|---|------|-----------------|----------|---|---|------|--------------|--|--|-------------------|--|
| 266_07:24:28  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2517 | 266_08:06:25 |  |  | during these 25h) |  |
| 266_08:06:25  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 266_08:25:40 |  |  |                   |  |
| 266_08:25:40  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 266_08:52:25 |  |  |                   |  |
| 266_08:40:48  | 1 | RTOF | Mode            | 1        | 0 | 0 | 240  | 266_08:44:48 |  |  |                   |  |
| 266_08:44:48  | 0 | RTOF | Flight sequence | ARNF014A | 0 | 0 | 120  | 266_08:46:48 |  |  |                   |  |
| <b>MWOL 22/09/2016 08:45:00 - 22/09/2016 11:01:30</b> |   |      |                 |          |   |   |      |              |  |  |                   |  |
| 266_08:52:50  | 1 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 266_08:53:00 |  |  |                   |  |
| 266_08:53:00  | 0 | DFMS | Mode            | 1        | 0 | 0 | 120  | 266_08:55:00 |  |  |                   |  |
| 266_08:55:00  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1620 | 266_09:22:00 |  |  |                   |  |
| 266_09:22:00  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 266_09:48:45 |  |  |                   |  |
| 266_09:48:45  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 266_10:08:00 |  |  |                   |  |
| 266_10:08:00  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 266_10:34:45 |  |  |                   |  |
| 266_10:34:45  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1673 | 266_11:02:38 |  |  |                   |  |
| 266_11:02:38  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2517 | 266_11:44:35 |  |  |                   |  |
| 266_11:44:35  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 266_12:03:50 |  |  |                   |  |
| 266_12:03:50  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 266_12:30:35 |  |  |                   |  |
| 266_12:30:35  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 266_12:49:50 |  |  |                   |  |
| 266_12:49:50  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 266_13:16:35 |  |  |                   |  |
| 266_13:16:35  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1673 | 266_13:44:28 |  |  |                   |  |
| 266_13:44:28  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2517 | 266_14:26:25 |  |  |                   |  |
| 266_14:26:25  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 266_14:45:40 |  |  |                   |  |
| 266_14:45:40  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 266_15:12:25 |  |  |                   |  |
| 266_15:12:25  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 266_15:31:40 |  |  |                   |  |
| 266_15:31:40  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 266_15:58:25 |  |  |                   |  |
| 266_15:58:25  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1673 | 266_16:26:18 |  |  |                   |  |
| 266_16:26:18  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2517 | 266_17:08:15 |  |  |                   |  |
| 266_17:08:15  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 266_17:27:30 |  |  |                   |  |
| 266_17:27:30  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 266_17:54:15 |  |  |                   |  |
| 266_17:54:15  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 266_18:13:30 |  |  |                   |  |
| 266_18:13:30  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 266_18:40:15 |  |  |                   |  |
| 266_18:40:15  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1673 | 266_19:08:08 |  |  |                   |  |
| 266_19:08:08  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2517 | 266_19:50:05 |  |  |                   |  |
| 266_19:50:05  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 266_20:09:20 |  |  |                   |  |
| 266_20:09:20  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 266_20:36:05 |  |  |                   |  |
| 266_20:36:05  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 266_20:55:20 |  |  |                   |  |

|   |          |  |                 |            |   |   |      |              |
|---|----------|--|-----------------|------------|---|---|------|--------------|
| 266_20:55:20  | 0        | DFMS   | Mode            | 562        | 0 | 0 | 1605 | 266_21:22:05 |
| 266_21:22:05  | 0        | DFMS   | Mode            | 564        | 0 | 0 | 1673 | 266_21:49:58 |
| 266_21:49:58  | 0        | DFMS   | Mode            | 566        | 0 | 0 | 2517 | 266_22:31:55 |
| 266_22:31:55  | 0        | DFMS   | Mode            | 502        | 0 | 0 | 1155 | 266_22:51:10 |
| 266_22:51:10  | 0        | DFMS   | Mode            | 562        | 0 | 0 | 1605 | 266_23:17:55 |
| 266_23:17:55  | 0        | DFMS   | Mode            | 502        | 0 | 0 | 1155 | 266_23:37:10 |
| 266_23:37:10  | 0        | DFMS   | Mode            | 562        | 0 | 0 | 1605 | 267_00:03:55 |
| 267_00:03:55  | 0        | DFMS   | Mode            | 564        | 0 | 0 | 1673 | 267_00:31:48 |
| 267_00:31:48  | 0        | DFMS   | Mode            | 566        | 0 | 0 | 2637 | 267_01:15:45 |
| 267_01:15:45  | 0        | DFMS   | Mode            | 502        | 0 | 0 | 1275 | 267_01:37:00 |
| 267_01:37:00  | 0        | DFMS   | Mode            | 562        | 0 | 0 | 1605 | 267_02:03:45 |
| 267_02:03:45  | 0        | DFMS   | Mode            | 564        | 0 | 0 | 1673 | 267_02:31:38 |
| 267_02:31:38  | 0        | DFMS   | Mode            | 566        | 0 | 0 | 2517 | 267_03:13:35 |
| 267_03:13:35  | 0        | DFMS   | Mode            | 502        | 0 | 0 | 1155 | 267_03:32:50 |
| 267_03:32:50  | 0        | DFMS   | Mode            | 562        | 0 | 0 | 1605 | 267_03:59:35 |
| 267_03:59:35  | 0        | DFMS   | Mode            | 502        | 0 | 0 | 1155 | 267_04:18:50 |
| 267_04:18:50  | 0        | DFMS   | Mode            | 562        | 0 | 0 | 1605 | 267_04:45:35 |
| 267_04:45:35  | 0        | DFMS   | Mode            | 564        | 0 | 0 | 1673 | 267_05:13:28 |
| 267_05:13:28  | 0        | DFMS   | Mode            | 566        | 0 | 0 | 2517 | 267_05:55:25 |
| 267_05:55:25  | 0        | DFMS   | Mode            | 502        | 0 | 1 | 2310 | 267_06:33:55 |
| 267_06:34:20  | 1        | DFMS   | Flight sequence | ARNS081B   | 0 | 0 | 10   | 267_06:34:30 |
| 267_06:34:30  | 0        | DFMS   | Mode            | 1          | 0 | 0 | 120  | 267_06:36:30 |
| 267_06:36:30  | 1        | COPS   | Flight sequence | ARNF016B   | 0 | 0 | 60   | 267_06:37:30 |
| 267_06:37:30  | 0        | COPS   | Mode            | 0          | 0 | 0 | 150  | 267_06:40:00 |
| <b>MOCM 23/09/2016 06:40:00 - 23/09/2016 11:00:00</b> |          |  |                 |            |   |   |      |              |
| 267_06:50:00  | 1        | DFMS   | Flight sequence | ARNF014B   | 0 | 0 | 125  | 267_06:52:05 |
| 267_06:52:05  | 0        | COPS   | Flight sequence | ARNF011A   | 0 | 0 | 210  | 267_06:55:35 |
| 267_06:55:35  | 0        | ROSINA   | Flight sequence | ARNF051A   | 0 | 0 | 60   | 267_06:56:35 |
| 267_07:10:00  | 1        | ROSINA   | Flight sequence | ARNF050A_M | 0 | 0 | 120  | 267_07:12:00 |
| 267_07:12:00  | 0        | ROSINA   | Flight sequence | ARNF002A   | 0 | 0 | 220  | 267_07:15:40 |
| 267_07:15:40  | 0        | COPS   | Flight sequence | ARNF015A   | 0 | 0 | 120  | 267_07:17:40 |
| 267_07:17:40  | 0        | DFMS   | Flight sequence | ARNF003A   | 0 | 0 | 120  | 267_07:19:40 |
| <b>267_10:59:00</b>                                   | <b>1</b> | <b>COPS default microtips changed to group 6-8 for mode 326 (15uA, low ion current )</b> |                 |            |   |   |      |              |
| 267_11:00:00  | 1        | COPS   | Mode            | 326        | 1 | 0 | 60   | 267_11:01:00 |
| 267_11:01:00  | 1        | DFMS   | Mode            | 502        | 0 | 0 | 1620 | 267_11:28:00 |

|              |   |      |                 |               |    |   |       |              |
|--------------|---|------|-----------------|---------------|----|---|-------|--------------|
| 267_11:28:00 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1605  | 267_11:54:45 |
| 267_11:55:00 | 1 | COPS | Flight sequence | ARNF016A      | 0  | 0 | 60    | 267_11:56:00 |
| 267_11:56:00 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1155  | 267_12:15:15 |
| 267_12:15:15 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1605  | 267_12:42:00 |
| 267_12:42:00 | 0 | DFMS | Mode            | 564           | 0  | 0 | 1673  | 267_13:09:53 |
| 267_13:09:53 | 0 | DFMS | Mode            | 566           | 0  | 0 | 2517  | 267_13:51:50 |
| 267_13:51:50 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1155  | 267_14:11:05 |
| 267_14:11:05 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1605  | 267_14:37:50 |
| 267_14:37:50 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1155  | 267_14:57:05 |
| 267_14:57:05 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1605  | 267_15:23:50 |
| 267_15:23:50 | 0 | DFMS | Mode            | 564           | 0  | 0 | 1673  | 267_15:51:43 |
| 267_15:51:43 | 0 | DFMS | Mode            | 566           | 0  | 0 | 2517  | 267_16:33:40 |
| 267_16:33:40 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1155  | 267_16:52:55 |
| 267_16:52:55 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1605  | 267_17:19:40 |
| 267_17:19:40 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1155  | 267_17:38:55 |
| 267_17:38:55 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1605  | 267_18:05:40 |
| 267_18:00:00 | 1 | RTOF | Flight sequence | ARNF004A      | 0  | 0 | 120   | 267_18:02:00 |
| 267_18:02:00 | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 1  | 0 | 60    | 267_18:03:00 |
| 267_18:03:00 | 0 | RTOF | Mode            | 521           | 15 | 3 | 14510 | 267_22:04:50 |
| 267_18:05:40 | 0 | DFMS | Mode            | 564           | 0  | 0 | 1673  | 267_18:33:33 |
| 267_18:33:33 | 0 | DFMS | Mode            | 566           | 0  | 0 | 2517  | 267_19:15:30 |
| 267_19:15:30 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1155  | 267_19:34:45 |
| 267_19:34:45 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1605  | 267_20:01:30 |
| 267_20:01:30 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1155  | 267_20:20:45 |
| 267_20:20:45 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1605  | 267_20:47:30 |
| 267_20:47:30 | 0 | DFMS | Mode            | 564           | 0  | 0 | 1673  | 267_21:15:23 |
| 267_21:15:23 | 0 | DFMS | Mode            | 566           | 0  | 0 | 2517  | 267_21:57:20 |
| 267_21:57:20 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1155  | 267_22:16:35 |
| 267_22:04:50 | 0 | RTOF | Mode            | 521           | 13 | 0 | 2990  | 267_22:54:40 |
| 267_22:16:35 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1605  | 267_22:43:20 |
| 267_22:43:20 | 0 | DFMS | Mode            | 502           | 0  | 0 | 1155  | 267_23:02:35 |
| 267_22:56:00 | 1 | RTOF | Mode            | 1             | 0  | 0 | 240   | 267_23:00:00 |
| 267_23:00:00 | 0 | RTOF | Flight sequence | ARNF014A      | 0  | 0 | 120   | 267_23:02:00 |
| 267_23:02:35 | 0 | DFMS | Mode            | 562           | 0  | 0 | 1605  | 267_23:29:20 |
| 267_23:29:20 | 0 | DFMS | Mode            | 564           | 0  | 0 | 1673  | 267_23:57:13 |

|   |   |      |                 |          |   |   |      |              |
|---|---|------|-----------------|----------|---|---|------|--------------|
| 267_23:57:13  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2517 | 268_00:39:10 |
| 268_00:39:10  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 268_00:58:25 |
| 268_00:58:25  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 268_01:25:10 |
| 268_01:25:10  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 268_01:44:25 |
| 268_01:44:25  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 268_02:11:10 |
| 268_02:11:10  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1673 | 268_02:39:03 |
| 268_02:39:03  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2517 | 268_03:21:00 |
| 268_03:21:00  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 268_03:40:15 |
| 268_03:40:15  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 268_04:07:00 |
| 268_04:07:00  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 268_04:26:15 |
| 268_04:26:15  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 268_04:53:00 |
| 268_04:53:00  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1673 | 268_05:20:53 |
| 268_05:20:53  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2517 | 268_06:02:50 |
| 268_06:02:50  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 268_06:22:05 |
| 268_06:34:20  | 1 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 268_06:34:30 |
| 268_06:34:30  | 0 | DFMS | Mode            | 1        | 0 | 0 | 120  | 268_06:36:30 |
| 268_06:36:30  | 1 | COPS | Flight sequence | ARNF016B | 0 | 0 | 60   | 268_06:37:30 |
| 268_06:37:30  | 0 | COPS | Mode            | 0        | 0 | 0 | 150  | 268_06:40:00 |
| <b>MOCM 24/09/2016 06:40:00 - 24/09/2016 11:06:30</b> |   |      |                 |          |   |   |      |              |
| 268_11:06:30  | 1 | COPS | Mode            | 326      | 1 | 0 | 60   | 268_11:07:30 |
| 268_11:07:30  | 1 | DFMS | Mode            | 502      | 0 | 0 | 1620 | 268_11:34:30 |
| 268_11:34:30  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 268_12:01:15 |
| 268_12:01:30  | 1 | COPS | Flight sequence | ARNF016A | 0 | 0 | 60   | 268_12:02:30 |
| 268_12:02:30  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1673 | 268_12:30:23 |
| 268_12:30:23  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2517 | 268_13:12:20 |
| 268_13:12:20  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 268_13:31:35 |
| 268_13:31:35  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 268_13:58:20 |
| 268_13:58:20  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 268_14:17:35 |
| 268_14:17:35  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 268_14:44:20 |
| 268_14:44:20  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1673 | 268_15:12:13 |
| 268_15:12:13  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2517 | 268_15:54:10 |
| 268_15:54:10  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 268_16:13:25 |
| 268_16:13:25  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 268_16:40:10 |
| 268_16:40:10  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 268_16:59:25 |
| 268_16:59:25  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 268_17:26:10 |

|              |   |      |                 |               |    |    |       |              |
|--------------|---|------|-----------------|---------------|----|----|-------|--------------|
| 268_17:26:10 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1673  | 268_17:54:03 |
| 268_17:54:03 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2517  | 268_18:36:00 |
| 268_18:36:00 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1155  | 268_18:55:15 |
| 268_18:55:15 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1605  | 268_19:22:00 |
| 268_19:22:00 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1155  | 268_19:41:15 |
| 268_19:41:15 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1605  | 268_20:08:00 |
| 268_20:08:00 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1673  | 268_20:35:53 |
| 268_20:35:53 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2517  | 268_21:17:50 |
| 268_21:17:50 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1155  | 268_21:37:05 |
| 268_21:37:05 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1605  | 268_22:03:50 |
| 268_22:03:50 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1155  | 268_22:23:05 |
| 268_22:23:05 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1605  | 268_22:49:50 |
| 268_22:49:50 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1673  | 268_23:17:43 |
| 268_23:17:43 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2637  | 269_00:01:40 |
| 269_00:01:40 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1275  | 269_00:22:55 |
| 269_00:22:55 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1605  | 269_00:49:40 |
| 269_00:49:40 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1155  | 269_01:08:55 |
| 269_01:08:55 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1605  | 269_01:35:40 |
| 269_01:35:40 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1673  | 269_02:03:33 |
| 269_02:03:33 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2517  | 269_02:45:30 |
| 269_02:45:30 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1155  | 269_03:04:45 |
| 269_03:04:45 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1605  | 269_03:31:30 |
| 269_03:31:30 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1155  | 269_03:50:45 |
| 269_03:50:45 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1605  | 269_04:17:30 |
| 269_04:15:00 | 1 | RTOF | Flight sequence | ARNF004A      | 0  | 0  | 120   | 269_04:17:00 |
| 269_04:17:00 | 0 | RTOF | Flight sequence | ARNS041A_RTOF | 1  | 0  | 60    | 269_04:18:00 |
| 269_04:17:30 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1673  | 269_04:45:23 |
| 269_04:18:00 | 0 | RTOF | Mode            | 521           | 15 | 11 | 41790 | 269_15:54:30 |
| 269_04:45:23 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2517  | 269_05:27:20 |
| 269_05:27:20 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1155  | 269_05:46:35 |
| 269_05:46:35 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1605  | 269_06:13:20 |
| 269_06:13:20 | 0 | DFMS | Mode            | 502           | 0  | 0  | 1155  | 269_06:32:35 |
| 269_06:32:35 | 0 | DFMS | Mode            | 562           | 0  | 0  | 1605  | 269_06:59:20 |
| 269_06:59:20 | 0 | DFMS | Mode            | 564           | 0  | 0  | 1673  | 269_07:27:13 |
| 269_07:27:13 | 0 | DFMS | Mode            | 566           | 0  | 0  | 2517  | 269_08:09:10 |

|   |   |      |                 |          |   |   |      |              |
|---|---|------|-----------------|----------|---|---|------|--------------|
| 269_08:09:10  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1275 | 269_08:30:25 |
| 269_08:30:25  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 269_08:57:10 |
| <b>MWOL 25/09/2016 08:45:00 - 25/09/2016 11:01:30</b> |   |      |                 |          |   |   |      |              |
| 269_09:00:40  | 1 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 269_09:00:50 |
| 269_09:00:50  | 0 | DFMS | Mode            | 1        | 0 | 0 | 120  | 269_09:02:50 |
| 269_09:02:50  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1620 | 269_09:29:50 |
| 269_09:29:50  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 269_09:56:35 |
| 269_09:56:35  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1673 | 269_10:24:28 |
| 269_10:24:28  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 269_10:43:43 |
| 269_10:43:43  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 269_11:10:28 |
| 269_11:10:28  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1673 | 269_11:38:21 |
| 269_11:38:21  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2517 | 269_12:20:18 |
| 269_12:20:18  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 269_12:39:33 |
| 269_12:39:33  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 269_13:06:18 |
| 269_13:06:18  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 269_13:25:33 |
| 269_13:25:33  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 269_13:52:18 |
| 269_13:52:18  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1673 | 269_14:20:11 |
| 269_14:20:11  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2517 | 269_15:02:08 |
| 269_15:02:08  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 269_15:21:23 |
| 269_15:21:23  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 269_15:48:08 |
| 269_15:48:08  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 269_16:07:23 |
| 269_15:54:30  | 0 | RTOF | Mode            | 521      | 8 | 0 | 1940 | 269_16:26:50 |
| 269_16:07:23  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 269_16:34:08 |
| 269_16:26:50  | 0 | RTOF | Mode            | 181      | 2 | 0 | 680  | 269_16:38:10 |
| 269_16:34:08  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1673 | 269_17:02:01 |
| 269_16:41:00  | 1 | RTOF | Mode            | 1        | 0 | 0 | 240  | 269_16:45:00 |
| 269_16:45:00  | 0 | RTOF | Flight sequence | ARNF014A | 0 | 0 | 120  | 269_16:47:00 |
| 269_17:02:01  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2517 | 269_17:43:58 |
| 269_17:43:58  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 269_18:03:13 |
| 269_18:03:13  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 269_18:29:58 |
| 269_18:29:58  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 269_18:49:13 |
| 269_18:49:13  | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 269_19:15:58 |
| 269_19:15:58  | 0 | DFMS | Mode            | 564      | 0 | 0 | 1673 | 269_19:43:51 |
| 269_19:43:51  | 0 | DFMS | Mode            | 566      | 0 | 0 | 2517 | 269_20:25:48 |
| 269_20:25:48  | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 269_20:45:03 |



|              |   |      |                 |          |   |   |      |              |
|--------------|---|------|-----------------|----------|---|---|------|--------------|
| 269_20:45:03 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 269_21:11:48 |
| 269_21:11:48 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 269_21:31:03 |
| 269_21:31:03 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 269_21:57:48 |
| 269_21:57:48 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1673 | 269_22:25:41 |
| 269_22:25:41 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2517 | 269_23:07:38 |
| 269_23:07:38 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 269_23:26:53 |
| 269_23:26:53 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 269_23:53:38 |
| 269_23:53:38 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 270_00:12:53 |
| 270_00:12:53 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 270_00:39:38 |
| 270_00:39:38 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1673 | 270_01:07:31 |
| 270_01:07:31 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2517 | 270_01:49:28 |
| 270_01:49:28 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 270_02:08:43 |
| 270_02:08:43 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 270_02:35:28 |
| 270_02:35:28 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1673 | 270_03:03:21 |
| 270_03:03:21 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2517 | 270_03:45:18 |
| 270_03:45:18 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 270_04:04:33 |
| 270_04:04:33 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 270_04:31:18 |
| 270_04:31:18 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 270_04:50:33 |
| 270_04:50:33 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 270_05:17:18 |
| 270_05:17:18 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1673 | 270_05:45:11 |
| 270_05:45:11 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2517 | 270_06:27:08 |
| 270_06:34:20 | 1 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 270_06:34:30 |
| 270_06:34:30 | 0 | DFMS | Mode            | 1        | 0 | 0 | 120  | 270_06:36:30 |
| 270_06:36:30 | 1 | COPS | Flight sequence | ARNF016B | 0 | 0 | 60   | 270_06:37:30 |
| 270_06:37:30 | 0 | COPS | Mode            | 0        | 0 | 0 | 150  | 270_06:40:00 |

MOCM 26/09/2016 06:40:00 - 26/09/2016 13:10:00

## STP129

| Start time                                     | Set Time | Instrument | Mode/Sequence   | Mode/Sequence number | Cycle number | Repetition | Duration [s] | Stop time    |
|--|----------|------------|-----------------|----------------------|--------------|------------|--------------|--------------|
| MOCM 26/09/2016 06:40:00 - 26/09/2016 13:10:00 |          |            |                 |                      |              |            |              |              |
| 270_07:30:00                                   | 1        | RTOF       | Flight sequence | ARNF004A             | 0            | 0          | 120          | 270_07:32:00 |
| 270_07:32:00                                   | 0        | RTOF       | Flight sequence | ARNS041A_RTOF        | 1            | 0          | 60           | 270_07:33:00 |
| 270_07:33:00                                   | 0        | RTOF       | Mode            | 521                  | 13           | 5          | 18810        | 270_12:46:30 |

Last RTOF commands...

|                     |          |  |                 |          |   |   |      |              |  |
|---------------------|----------|--|-----------------|----------|---|---|------|--------------|--|
| 270_12:46:30        | 0        | RTOF   | Mode            | 1        | 0 | 0 | 240  | 270_12:50:30 |  |
| 270_12:50:30        | 0        | RTOF   | Flight sequence | ARNF014A | 0 | 0 | 120  | 270_12:52:30 | Has been changed in the .itl to 12:50:00 |
| <b>270_13:09:00</b> | <b>1</b> | <b>COPS default microtips changed to group 6-8 for mode 326 (15uA, low ion current )</b> |                 |          |   |   |      |              |  |
| 270_13:10:00        | 1        | COPS   | Mode            | 326      | 1 | 0 | 60   | 270_13:11:00 |  |
| 270_13:11:00        | 1        | DFMS   | Mode            | 502      | 0 | 0 | 2020 | 270_13:44:40 |  |
| 270_13:38:00        | 0        | DFMS   | Mode            | 562      | 0 | 0 | 1605 | 270_14:11:25 |  |
| 270_14:05:00        | 1        | COPS   | Flight sequence | ARNF016A | 0 | 0 | 60   | 270_14:06:00 |  |
| 270_14:06:00        | 0        | DFMS   | Mode            | 502      | 0 | 0 | 1155 | 270_14:30:40 |  |
| 270_14:25:15        | 0        | DFMS   | Mode            | 562      | 0 | 0 | 1605 | 270_14:57:25 |  |
| 270_14:52:00        | 0        | DFMS   | Mode            | 502      | 0 | 0 | 1155 | 270_15:16:40 |  |
| 270_15:11:15        | 0        | DFMS   | Mode            | 562      | 0 | 0 | 1605 | 270_15:43:25 |  |
| 270_15:38:00        | 0        | DFMS   | Mode            | 502      | 0 | 0 | 1155 | 270_16:02:40 |  |
| 270_15:57:15        | 0        | DFMS   | Mode            | 562      | 0 | 0 | 1605 | 270_16:29:25 |  |
| 270_16:24:00        | 0        | DFMS   | Mode            | 502      | 0 | 0 | 1155 | 270_16:48:40 |  |
| 270_16:43:15        | 0        | DFMS   | Mode            | 562      | 0 | 0 | 1605 | 270_17:15:25 |  |
| 270_17:10:00        | 0        | DFMS   | Mode            | 502      | 0 | 0 | 1155 | 270_17:34:40 |  |
| 270_17:29:15        | 0        | DFMS   | Mode            | 562      | 0 | 0 | 1605 | 270_18:01:25 |  |
| 270_17:56:00        | 0        | DFMS   | Mode            | 502      | 0 | 0 | 1155 | 270_18:20:40 |  |
| 270_18:15:15        | 0        | DFMS   | Mode            | 562      | 0 | 0 | 1605 | 270_18:47:25 |  |
| 270_18:42:00        | 0        | DFMS   | Mode            | 502      | 0 | 0 | 1155 | 270_19:06:40 |  |
| 270_19:01:15        | 0        | DFMS   | Mode            | 562      | 0 | 0 | 1605 | 270_19:33:25 |  |
| 270_19:28:00        | 0        | DFMS   | Mode            | 502      | 0 | 0 | 1155 | 270_19:52:40 |  |
| 270_19:47:15        | 0        | DFMS   | Mode            | 562      | 0 | 0 | 1605 | 270_20:19:25 |  |
| 270_20:14:00        | 0        | DFMS   | Mode            | 502      | 0 | 0 | 1155 | 270_20:38:40 |  |
| 270_20:33:15        | 0        | DFMS   | Mode            | 562      | 0 | 0 | 1605 | 270_21:05:25 |  |
| 270_21:00:00        | 0        | DFMS   | Mode            | 502      | 0 | 0 | 1155 | 270_21:24:40 |  |
| 270_21:19:15        | 0        | DFMS   | Mode            | 562      | 0 | 0 | 1605 | 270_21:51:25 |  |
| 270_21:46:00        | 0        | DFMS   | Mode            | 502      | 0 | 0 | 1155 | 270_22:10:40 |  |
| 270_22:05:15        | 0        | DFMS   | Mode            | 562      | 0 | 0 | 1605 | 270_22:37:25 |  |
| 270_22:32:00        | 0        | DFMS   | Mode            | 502      | 0 | 0 | 1155 | 270_22:56:40 |  |
| 270_22:51:15        | 0        | DFMS   | Mode            | 562      | 0 | 0 | 1605 | 270_23:23:25 |  |
| 270_23:18:00        | 0        | DFMS   | Mode            | 502      | 0 | 0 | 1155 | 270_23:42:40 |  |
| 270_23:37:15        | 0        | DFMS   | Mode            | 502      | 0 | 0 | 1155 | 271_00:01:55 |  |
| 270_23:56:30        | 0        | DFMS   | Mode            | 562      | 0 | 0 | 1605 | 271_00:28:40 |  |
| 271_00:23:15        | 0        | DFMS   | Mode            | 502      | 0 | 0 | 1155 | 271_00:47:55 |  |

|              |   |      |      |     |   |   |      |              |
|--------------|---|------|------|-----|---|---|------|--------------|
| 271_00:42:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 271_01:14:40 |
| 271_01:09:15 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 271_01:33:55 |
| 271_01:28:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 271_02:00:40 |
| 271_01:55:15 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 271_02:19:55 |
| 271_02:14:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 271_02:46:40 |
| 271_02:41:15 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 271_03:05:55 |
| 271_03:00:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 271_03:32:40 |
| 271_03:27:15 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 271_03:51:55 |
| 271_03:46:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 271_04:18:40 |
| 271_04:13:15 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 271_04:37:55 |
| 271_04:32:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 271_05:04:40 |
| 271_04:59:15 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 271_05:23:55 |
| 271_05:18:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 271_05:50:40 |
| 271_05:45:15 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 271_06:09:55 |
| 271_06:04:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 271_06:36:40 |
| 271_06:31:15 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 271_06:55:55 |
| 271_06:50:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 271_07:22:40 |
| 271_07:17:15 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 271_07:41:55 |
| 271_07:36:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 271_08:08:40 |
| 271_08:03:15 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 271_08:27:55 |
| 271_08:22:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 271_08:54:40 |
| 271_08:49:15 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 271_09:13:55 |
| 271_09:08:30 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 271_09:33:10 |
| 271_09:27:45 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 271_09:59:55 |
| 271_09:54:30 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 271_10:19:10 |
| 271_10:13:45 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 271_10:45:55 |
| 271_10:40:30 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 271_11:05:10 |
| 271_10:59:45 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 271_11:31:55 |
| 271_11:26:30 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 271_11:51:10 |
| 271_11:45:45 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 271_12:17:55 |
| 271_12:12:30 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 271_12:37:10 |
| 271_12:31:45 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 271_13:03:55 |
| 271_12:58:30 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 271_13:23:10 |
| 271_13:17:45 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 271_13:49:55 |
| 271_13:44:30 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 271_14:09:10 |

|                     |   |   |                 |          |   |   |      |              |
|---------------------|---|---|-----------------|----------|---|---|------|--------------|
| 271_14:03:45        | 0 | DFMS                                    | Mode            | 562      | 0 | 0 | 1605 | 271_14:35:55 |
| 271_14:30:30        | 0 | DFMS                                    | Mode            | 502      | 0 | 0 | 1155 | 271_14:55:10 |
| 271_14:49:45        | 0 | DFMS                                    | Mode            | 562      | 0 | 0 | 1605 | 271_15:21:55 |
| 271_15:16:30        | 0 | DFMS                                    | Mode            | 502      | 0 | 0 | 1155 | 271_15:41:10 |
| 271_15:35:45        | 0 | DFMS                                    | Mode            | 562      | 0 | 0 | 1605 | 271_16:07:55 |
| 271_16:02:30        | 0 | DFMS                                    | Mode            | 502      | 0 | 0 | 1155 | 271_16:27:10 |
| 271_16:21:45        | 0 | DFMS                                    | Mode            | 562      | 0 | 0 | 1605 | 271_16:53:55 |
| 271_16:48:30        | 0 | DFMS                                    | Mode            | 502      | 0 | 0 | 1155 | 271_17:13:10 |
| 271_17:07:45        | 0 | DFMS                                    | Mode            | 562      | 0 | 0 | 1605 | 271_17:39:55 |
| 271_17:34:30        | 0 | DFMS                                    | Mode            | 502      | 0 | 0 | 1155 | 271_17:59:10 |
| 271_17:53:45        | 0 | DFMS                                    | Mode            | 562      | 0 | 0 | 1605 | 271_18:25:55 |
| 271_18:20:30        | 0 | DFMS                                    | Mode            | 502      | 0 | 0 | 1155 | 271_18:45:10 |
| 271_18:39:45        | 0 | DFMS                                    | Mode            | 562      | 0 | 0 | 1605 | 271_19:11:55 |
| 271_19:06:30        | 0 | DFMS                                    | Mode            | 502      | 0 | 0 | 1155 | 271_19:31:10 |
| 271_19:25:45        | 0 | DFMS                                    | Mode            | 562      | 0 | 0 | 1605 | 271_19:57:55 |
| 271_19:52:30        | 0 | DFMS                                    | Mode            | 502      | 0 | 0 | 1155 | 271_20:17:10 |
| 271_20:11:45        | 0 | DFMS                                    | Mode            | 562      | 0 | 0 | 1605 | 271_20:43:55 |
| 271_20:38:30        | 0 | DFMS                                    | Mode            | 502      | 0 | 0 | 1155 | 271_21:03:10 |
| 271_20:57:45        | 0 | DFMS                                    | Mode            | 562      | 0 | 0 | 1605 | 271_21:29:55 |
| 271_21:24:30        | 0 | DFMS                                    | Mode            | 502      | 0 | 0 | 1155 | 271_21:49:10 |
| 271_21:43:45        | 0 | DFMS                                    | Mode            | 562      | 0 | 0 | 1605 | 271_22:15:55 |
| 271_22:10:30        | 0 | DFMS                                    | Mode            | 502      | 0 | 0 | 1155 | 271_22:29:45 |
| 271_22:29:45        | 0 | DFMS                                    | Mode            | 562      | 0 | 0 | 1605 | 271_22:56:30 |
| 271_22:34:46        | 0 | DFMS                                    | Mode            | 562      | 0 | 0 | 1605 |              |
| 271_22:39:47        | 0 | DFMS                                    | Mode            | 502      | 0 | 0 | 1155 |              |
| 271_22:44:48        | 0 | DFMS                                    | Mode            | 502      | 0 | 0 | 1155 |              |
| 271_22:49:49        | 0 | DFMS                                    | Mode            | 502      | 0 | 0 | 1155 |              |
| 271_22:56:30        | 0 | DFMS                                    | Flight sequence | ARNS081B | 0 | 0 | 10   | 271_22:56:40 |
| 271_22:56:40        | 0 | DFMS                                    | Mode            | 502      | 0 | 0 | 1155 | 271_23:15:55 |
| 271_23:01:41        | 0 | DFMS                                    | Mode            | 502      | 0 | 0 | 1605 |              |
| 271_23:06:00        | 0 | DFMS                                    | Mode            | 562      | 0 | 0 | 1155 |              |
| 271_23:15:55        | 0 | DFMS                                    | Flight sequence | ARNS081B | 0 | 0 | 10   | 271_23:16:05 |
| 271_23:19:00        | 1 | DFMS                                    | Mode            | 562      | 0 | 0 | 1605 | 271_23:42:30 |
| <b>271_23:20:00</b> |   | <b>Go to 4s HK generation mode (E2)</b> |                 |          |   |   |      |              |
| 271_23:24:00        | 0 | DFMS                                    | Mode            | 562      | 0 | 0 | 1605 |              |

only in the .itl modes have been commanded to fill the stack line

pre-final hour operations test required by ESAC

final hour operations test required by ESAC

|  |   |   |                 |          |   |   |      |              |
|--|---|---|-----------------|----------|---|---|------|--------------|
| 271_23:29:00                                       | 0 | DFMS                                      | Mode            | 502      | 0 | 0 | 1155 |              |
| 271_23:34:00                                       | 0 | DFMS                                      | Mode            | 502      | 0 | 0 | 1155 |              |
| 271_23:39:00                                       | 0 | DFMS                                      | Mode            | 502      | 0 | 0 | 1155 |              |
| <b>271_23:45:00</b>                                |   | <b>Go to 1min HK generation mode (S2)</b> |                 |          |   |   |      |              |
| 271_23:54:00                                       | 1 | DFMS                                      | Flight sequence | ARNS081B | 0 | 0 | 10   | 271_23:54:10 |
| 271_23:54:10                                       | 0 | DFMS                                      | Mode            | 1        | 0 | 0 | 120  | 271_23:56:10 |
| 271_23:55:10                                       | 0 | COPS                                      | Flight sequence | ARNF016B | 0 | 0 | 60   | 271_23:56:10 |
| 271_23:56:10                                       | 0 | COPS                                      | Mode            | 0        | 0 | 0 | 150  | 271_23:58:40 |
| <b>MOCM 28/09/2016 00:00:00 - 28/09/2016 06:30</b> |   |   |                 |          |   |   |      |              |
| 272_06:30:00                                       | 1 | COPS                                      | Mode            | 326      | 1 | 0 | 60   | 272_06:31:00 |
| 272_06:31:00                                       | 1 | DFMS                                      | Mode            | 502      | 0 | 0 | 1620 | 272_06:58:00 |
| 272_06:58:00                                       | 0 | DFMS                                      | Mode            | 562      | 0 | 0 | 1605 | 272_07:24:45 |
| 272_07:25:00                                       | 1 | COPS                                      | Flight sequence | ARNF016A | 0 | 0 | 60   | 272_07:26:00 |
| 272_07:26:00                                       | 0 | DFMS                                      | Mode            | 502      | 0 | 0 | 1155 | 272_07:45:15 |
| 272_07:45:15                                       | 0 | DFMS                                      | Mode            | 562      | 0 | 0 | 1605 | 272_08:12:00 |
| 272_08:12:00                                       | 0 | DFMS                                      | Mode            | 502      | 0 | 0 | 1155 | 272_08:31:15 |
| 272_08:31:15                                       | 0 | DFMS                                      | Mode            | 562      | 0 | 0 | 1605 | 272_08:58:00 |
| 272_08:58:00                                       | 0 | DFMS                                      | Mode            | 502      | 0 | 0 | 1155 | 272_09:17:15 |
| 272_09:17:15                                       | 0 | DFMS                                      | Mode            | 562      | 0 | 0 | 1605 | 272_09:44:00 |
| 272_09:44:00                                       | 0 | DFMS                                      | Mode            | 502      | 0 | 0 | 1155 | 272_10:03:15 |
| 272_10:03:15                                       | 0 | DFMS                                      | Mode            | 562      | 0 | 0 | 1605 | 272_10:30:00 |
| 272_10:30:00                                       | 0 | DFMS                                      | Mode            | 502      | 0 | 0 | 1155 | 272_10:49:15 |
| 272_10:49:15                                       | 0 | DFMS                                      | Mode            | 562      | 0 | 0 | 1605 | 272_11:16:00 |
| 272_11:16:00                                       | 0 | DFMS                                      | Mode            | 502      | 0 | 0 | 1155 | 272_11:35:15 |
| 272_11:35:15                                       | 0 | DFMS                                      | Mode            | 562      | 0 | 0 | 1605 | 272_12:02:00 |
| 272_12:02:00                                       | 0 | DFMS                                      | Mode            | 502      | 0 | 0 | 1155 | 272_12:21:15 |
| 272_12:21:15                                       | 0 | DFMS                                      | Mode            | 562      | 0 | 0 | 1605 | 272_12:48:00 |
| 272_12:48:00                                       | 0 | DFMS                                      | Mode            | 502      | 0 | 0 | 1155 | 272_13:07:15 |
| 272_13:07:15                                       | 0 | DFMS                                      | Mode            | 562      | 0 | 0 | 1605 | 272_13:34:00 |
| 272_13:34:00                                       | 0 | DFMS                                      | Mode            | 502      | 0 | 0 | 1155 | 272_13:53:15 |
| 272_13:53:15                                       | 0 | DFMS                                      | Mode            | 562      | 0 | 0 | 1605 | 272_14:20:00 |
| 272_14:20:00                                       | 0 | DFMS                                      | Mode            | 502      | 0 | 0 | 1155 | 272_14:39:15 |
| 272_14:39:15                                       | 0 | DFMS                                      | Mode            | 562      | 0 | 0 | 1605 | 272_15:06:00 |
| 272_15:06:00                                       | 0 | DFMS                                      | Mode            | 502      | 0 | 0 | 1155 | 272_15:25:15 |
| 272_15:25:15                                       | 0 | DFMS                                      | Mode            | 562      | 0 | 0 | 1605 | 272_15:52:00 |

|              |   |      |      |     |   |   |      |              |
|--------------|---|------|------|-----|---|---|------|--------------|
| 272_15:52:00 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 272_16:11:15 |
| 272_16:11:15 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 272_16:38:00 |
| 272_16:38:00 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 272_16:57:15 |
| 272_16:57:15 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 272_17:24:00 |
| 272_17:24:00 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 272_17:43:15 |
| 272_17:43:15 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 272_18:02:30 |
| 272_18:02:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 272_18:29:15 |
| 272_18:29:15 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 272_18:48:30 |
| 272_18:48:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 272_19:15:15 |
| 272_19:15:15 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 272_19:34:30 |
| 272_19:34:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 272_20:01:15 |
| 272_20:01:15 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 272_20:20:30 |
| 272_20:20:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 272_20:47:15 |
| 272_20:47:15 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 272_21:06:30 |
| 272_21:06:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 272_21:33:15 |
| 272_21:33:15 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 272_21:52:30 |
| 272_21:52:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 272_22:19:15 |
| 272_22:19:15 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 272_22:38:30 |
| 272_22:38:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1725 | 272_23:07:15 |
| 272_23:07:15 | 0 | DFMS | Mode | 502 | 0 | 0 | 1275 | 272_23:28:30 |
| 272_23:28:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 272_23:55:15 |
| 272_23:55:15 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 273_00:14:30 |
| 273_00:14:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 273_00:41:15 |
| 273_00:41:15 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 273_01:00:30 |
| 273_01:00:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 273_01:27:15 |
| 273_01:27:15 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 273_01:46:30 |
| 273_01:46:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 273_02:13:15 |
| 273_02:13:15 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 273_02:32:30 |
| 273_02:32:30 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 273_02:59:15 |
| 273_02:59:15 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 273_03:18:30 |
| 273_03:18:30 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 273_03:37:45 |
| 273_03:37:45 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 273_04:04:30 |
| 273_04:04:30 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 273_04:23:45 |
| 273_04:23:45 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 273_04:50:30 |
| 273_04:50:30 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 273_05:09:45 |

|              |   |      |                 |          |   |   |      |              |
|--------------|---|------|-----------------|----------|---|---|------|--------------|
| 273_05:09:45 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 273_05:36:30 |
| 273_05:36:30 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 273_05:55:45 |
| 273_05:55:45 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 273_06:22:30 |
| 273_06:22:30 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 273_06:41:45 |
| 273_06:41:45 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 273_07:08:30 |
| 273_07:08:30 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 273_07:27:45 |
| 273_07:27:45 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 273_07:54:30 |
| 273_07:54:30 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 273_08:13:45 |
| 273_08:13:45 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 273_08:40:30 |
| 273_08:40:30 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 273_08:59:45 |
| 273_08:59:45 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 273_09:26:30 |
| 273_09:26:30 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 273_09:45:45 |
| 273_09:45:45 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 273_10:12:30 |
| 273_10:12:30 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 273_10:31:45 |
| 273_10:31:45 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 273_10:58:30 |
| 273_10:58:30 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 273_11:17:45 |
| 273_11:17:45 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 273_11:44:30 |
| 273_11:44:30 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 273_12:03:45 |
| 273_12:03:45 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 273_12:30:30 |
| 273_12:30:30 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 273_12:49:45 |
| 273_12:49:45 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 273_13:16:30 |
| 273_13:16:30 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 273_13:35:45 |
| 273_13:35:45 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 273_14:02:30 |
| 273_14:02:30 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 273_14:21:45 |
| 273_14:21:45 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 273_14:48:30 |
| 273_14:48:30 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 273_15:07:45 |
| 273_15:07:45 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 273_15:34:30 |
| 273_15:34:30 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 273_15:53:45 |
| 273_15:53:45 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 273_16:20:30 |
| 273_16:20:30 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 273_16:39:45 |
| 273_16:39:45 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 273_17:06:30 |
| 273_17:06:30 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 273_17:25:45 |
| 273_17:25:45 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 273_17:52:30 |
| 273_17:52:30 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 273_18:11:45 |
| 273_18:24:00 | 1 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 273_18:24:10 |

|              |   |      |                 |          |   |   |     |              |
|--------------|---|------|-----------------|----------|---|---|-----|--------------|
| 273_18:24:10 | 0 | DFMS | Mode            | 1        | 0 | 0 | 120 | 273_18:26:10 |
| 273_18:25:10 | 0 | COPS | Flight sequence | ARNF016B | 0 | 0 | 60  | 273_18:26:10 |
| 273_18:26:10 | 0 | COPS | Mode            | 0        | 0 | 0 | 150 | 273_18:28:40 |

**MOCM 29/09/2016 18:30:00 - 29/09/2016 22:40:00**

## STP130

| Start time  | Set Time | Instrument  | Mode/Sequence   | Mode/Sequence number | Cycle number | Repetition | Duration [s] | Stop time    |
|---|----------|---|-----------------|----------------------|--------------|------------|--------------|--------------|
| <b>MOCM 29/09/2016 18:30:00 - 29/09/2016 22:40:00</b> |          |   |                 |                      |              |            |              |              |
| 273_22:20:00  | 1        | DFMS  | Flight sequence | ARNF014B             | 0            | 0          | 125          | 273_22:23:05 |
| 273_22:22:05  | 0        | COPS  | Flight sequence | ARNF011A             | 0            | 0          | 210          | 273_22:26:35 |
| 273_22:25:35  | 0        | ROSINA  | Flight sequence | ARNF051A             | 0            | 0          | 60           | 273_22:27:35 |
| 273_22:33:20  | 1        | ROSINA  | Flight sequence | ARNF050A_M           | 0            | 0          | 120          | 273_22:36:20 |
| 273_22:35:20  | 0        | ROSINA  | Flight sequence | ARNF002A             | 0            | 0          | 220          | 273_22:40:00 |
| 273_22:40:00  | 0        | COPS  | Flight sequence | ARNF015A             | 0            | 0          | 120          | 273_22:42:00 |
| 273_22:42:00  | 0        | DFMS  | Flight sequence | ARNF003A             | 0            | 0          | 120          | 273_22:44:00 |
| <b>273_22:44:00</b>                                   | <b>1</b> | <b>COPS default microtips changed to group 6-8 for mode 326 (15uA, low ion current)</b> |                 |                      |              |            |              |              |
| 273_22:45:00  | 1        | COPS  | Mode            | 326                  | 1            | 0          | 60           | 273_22:46:00 |
| 273_22:48:00  | 1        | DFMS  | Mode            | 502                  | 0            | 0          | 1620         | 273_23:15:00 |
| 273_23:15:00  | 0        | DFMS  | Mode            | 562                  | 0            | 0          | 1605         | 273_23:41:45 |
| 273_23:41:00  | 1        | COPS  | Flight sequence | ARNF016A             | 0            | 0          | 60           | 273_23:42:00 |
| 273_23:42:00  | 0        | DFMS  | Mode            | 564                  | 0            | 0          | 1673         | 274_00:09:53 |
| 274_00:09:53  | 0        | DFMS  | Mode            | 566                  | 0            | 0          | 2517         | 274_00:51:50 |
| 274_00:11:00  | 1        | COPS  | Mode            | 55                   | 0            | 0          | 60           | 274_00:12:00 |
| 274_00:51:50  | 0        | DFMS  | Mode            | 502                  | 0            | 0          | 1155         | 274_01:11:05 |
| 274_01:11:00  | 1        | COPS  | Mode            | 326                  | 0            | 0          | 60           | 274_01:12:00 |
| 274_01:11:05  | 0        | DFMS  | Mode            | 562                  | 0            | 0          | 1605         | 274_01:37:50 |
| 274_01:20:00  |          |   |                 |                      |              |            |              |              |
| 274_01:37:50  | 0        | DFMS  | Mode            | 564                  | 0            | 0          | 1673         | 274_02:05:43 |
| 274_02:05:43  | 0        | DFMS  | Mode            | 566                  | 0            | 0          | 2517         | 274_02:47:40 |
| 274_02:47:40  | 0        | DFMS  | Mode            | 502                  | 0            | 0          | 1155         | 274_03:06:55 |
| 274_03:06:55  | 0        | DFMS  | Mode            | 562                  | 0            | 0          | 1605         | 274_03:33:40 |
| 274_03:11:00  | 1        | COPS  | Mode            | 326                  | 0            | 0          | 60           | 274_03:12:00 |

Descent Phase 1



|              |   |      |                 |          |   |   |      |              |
|--------------|---|------|-----------------|----------|---|---|------|--------------|
| 274_03:33:40 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1673 | 274_04:01:33 |
| 274_04:01:33 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2517 | 274_04:43:30 |
| 274_04:43:30 | 0 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 274_05:02:45 |
| 274_05:02:45 | 0 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 274_05:29:30 |
| 274_05:11:00 | 1 | COPS | Mode            | 326      | 0 | 0 | 60   | 274_05:12:00 |
| 274_05:29:30 | 0 | DFMS | Mode            | 564      | 0 | 0 | 1673 | 274_05:57:23 |
| 274_05:57:23 | 0 | DFMS | Mode            | 566      | 0 | 0 | 2517 | 274_06:39:20 |
| 274_06:39:20 | 1 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 274_06:39:30 |
| 274_06:39:30 | 1 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 274_06:58:45 |
| 274_06:44:30 | 1 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 274_06:58:45 |
| 274_06:54:30 | 1 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 274_07:25:40 |
| 274_06:58:45 | 1 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 274_06:58:55 |
| 274_06:58:55 | 1 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 274_07:25:40 |
| 274_07:03:55 | 1 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 274_07:25:40 |
| 274_07:11:00 | 1 | COPS | Mode            | 326      | 0 | 0 | 60   | 274_07:12:00 |
| 274_07:13:55 | 1 | DFMS | Mode            | 564      | 0 | 0 | 1673 | 274_07:54:43 |
| 274_07:25:40 | 1 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 274_07:25:50 |
| 274_07:25:50 | 1 | DFMS | Mode            | 564      | 0 | 0 | 1673 | 274_07:53:43 |
| 274_07:30:50 | 1 | DFMS | Mode            | 564      | 0 | 0 | 1673 | 274_07:54:43 |
| 274_07:40:50 | 1 | DFMS | Mode            | 566      | 0 | 0 | 2517 | 274_08:36:50 |
| 274_07:53:43 | 1 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 274_07:53:53 |
| 274_07:53:53 | 1 | DFMS | Mode            | 566      | 0 | 0 | 2517 | 274_08:35:50 |
| 274_08:03:53 | 1 | DFMS | Mode            | 566      | 0 | 0 | 2517 | 274_08:36:50 |
| 274_08:13:53 | 1 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 274_08:56:15 |
| 274_08:20:00 |   |      |                 |          |   |   |      |              |
| 274_08:23:30 | 1 | DFMS | Mode            | 522      | 0 | 0 | 148  | 274_00:44:40 |
| 274_08:35:50 | 1 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 274_08:36:00 |
| 274_08:36:00 | 1 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 274_08:55:15 |
| 274_08:41:00 | 1 | DFMS | Mode            | 502      | 0 | 0 | 1155 | 274_06:58:45 |
| 274_08:51:00 | 1 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 274_07:25:40 |
| 274_08:55:15 | 1 | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 274_08:55:25 |
| 274_08:55:25 | 1 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 274_09:22:10 |
| 274_09:00:25 | 1 | DFMS | Mode            | 562      | 0 | 0 | 1605 | 274_07:25:40 |
| 274_09:10:25 | 1 | DFMS | Mode            | 564      | 0 | 0 | 1673 | 274_07:54:43 |
| 274_09:11:30 | 1 | COPS | Mode            | 326      | 0 | 0 | 60   | 274_09:12:00 |

Descent  
Phase 2

|                     |   |      |                 |          |   |   |      |              |                    |  |
|---------------------|---|------|-----------------|----------|---|---|------|--------------|--------------------|--|
| 274_09:22:10        | 1                                       | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 274_09:22:20 |                    |  |
| 274_09:22:20        | 1                                       | DFMS | Mode            | 564      | 0 | 0 | 1673 | 274_09:50:13 |                    |  |
| 274_09:27:20        | 1                                       | DFMS | Mode            | 564      | 0 | 0 | 1673 | 274_07:54:43 |                    |  |
| 274_09:37:20        | 1                                       | DFMS | Mode            | 566      | 0 | 0 | 2517 | 274_08:36:50 |                    |  |
| 274_09:50:13        | 1                                       | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 274_09:50:23 |                    |  |
| 274_09:50:23        | 1                                       | DFMS | Mode            | 566      | 0 | 0 | 2517 | 274_10:32:20 |                    |  |
| 274_10:00:23        | 1                                       | DFMS | Mode            | 566      | 0 | 0 | 2517 | 274_08:36:50 |                    |  |
| <b>274_10:03:00</b> | <b>Go to 4s HK generation mode (E2)</b> |      |                 |          |   |   |      |              |                    |  |
| 274_10:10:23        | 1                                       | DFMS | Mode            | 502      | 0 | 0 | 1155 | 274_08:56:15 | Descent<br>Phase 3 |  |
| <b>274_10:20:00</b> | <b>SOONEST TOUCHDOWN</b>                |      |                 |          |   |   |      |              |                    |  |
| 274_10:20:00        | 1                                       | DFMS | Mode            | 522      | 0 | 0 | 148  | 274_00:44:40 |                    |  |
| 274_10:32:20        | 1                                       | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 274_10:32:30 |                    |  |
| 274_10:32:30        | 1                                       | DFMS | Mode            | 502      | 0 | 0 | 1155 | 274_10:51:45 |                    |  |
| 274_10:37:30        | 1                                       | DFMS | Mode            | 502      | 0 | 0 | 1155 | 274_06:58:45 |                    |  |
| <b>274_10:40:00</b> | <b>NOMINAL TOUCHDOWN</b>                |      |                 |          |   |   |      |              |                    |  |
| 274_10:47:30        | 1                                       | DFMS | Mode            | 562      | 0 | 0 | 1605 | 274_07:25:40 |                    |  |
| 274_10:51:45        | 1                                       | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 274_10:51:55 |                    |  |
| 274_10:51:55        | 1                                       | DFMS | Mode            | 562      | 0 | 0 | 1605 | 274_11:18:40 |                    |  |
| 274_10:56:55        | 1                                       | DFMS | Mode            | 562      | 0 | 0 | 1605 | 274_07:25:40 |                    |  |
| <b>274_11:00:00</b> | <b>LATEST TOUCHDOWN</b>                 |      |                 |          |   |   |      |              |                    |  |
| 274_11:06:55        | 1                                       | DFMS | Mode            | 564      | 0 | 0 | 1673 | 274_07:54:43 |                    |  |
| 274_11:18:40        | 1                                       | DFMS | Flight sequence | ARNS081B | 0 | 0 | 10   | 274_11:18:50 |                    |  |
| 274_11:18:50        | 0                                       | DFMS | Mode            | 564      | 0 | 0 | 1673 | 274_11:46:43 |                    |  |
| 274_11:46:43        | 0                                       | DFMS | Mode            | 566      | 0 | 0 | 2517 | 274_12:28:40 |                    |  |
| 274_12:28:40        | 0                                       | DFMS | Mode            | 502      | 0 | 0 | 1155 | 274_12:47:55 |                    |  |
| 274_12:47:55        | 0                                       | DFMS | Mode            | 562      | 0 | 0 | 1605 | 274_13:14:40 |                    |  |
| 274_13:14:40        | 0                                       | DFMS | Mode            | 564      | 0 | 0 | 1673 | 274_13:42:33 |                    |  |
| 274_13:42:33        | 0                                       | DFMS | Mode            | 566      | 0 | 0 | 2517 | 274_14:24:30 |                    |  |
| 274_14:24:30        | 0                                       | DFMS | Mode            | 502      | 0 | 0 | 1155 | 274_14:43:45 |                    |  |
| 274_14:43:45        | 0                                       | DFMS | Mode            | 562      | 0 | 0 | 1605 | 274_15:10:30 |                    |  |
| 274_15:10:30        | 0                                       | DFMS | Mode            | 564      | 0 | 0 | 1673 | 274_15:38:23 |                    |  |
| 274_15:38:23        | 0                                       | DFMS | Mode            | 566      | 0 | 0 | 2517 | 274_16:20:20 |                    |  |
| 274_16:20:20        | 0                                       | DFMS | Mode            | 502      | 0 | 0 | 1155 | 274_16:39:35 |                    |  |
| 274_16:39:35        | 0                                       | DFMS | Mode            | 562      | 0 | 0 | 1605 | 274_17:06:20 |                    |  |
| 274_17:06:20        | 0                                       | DFMS | Mode            | 564      | 0 | 0 | 1673 | 274_17:34:13 |                    |  |

|              |   |      |      |     |   |   |      |              |
|--------------|---|------|------|-----|---|---|------|--------------|
| 274_17:34:13 | 0 | DFMS | Mode | 566 | 0 | 0 | 2517 | 274_18:16:10 |
| 274_18:16:10 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 274_18:35:25 |
| 274_18:35:25 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 274_19:02:10 |
| 274_19:02:10 | 0 | DFMS | Mode | 564 | 0 | 0 | 1673 | 274_19:30:03 |
| 274_19:30:03 | 0 | DFMS | Mode | 566 | 0 | 0 | 2517 | 274_20:12:00 |
| 274_20:12:00 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 274_20:31:15 |
| 274_20:31:15 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 274_20:58:00 |
| 274_20:58:00 | 0 | DFMS | Mode | 564 | 0 | 0 | 1673 | 274_21:25:53 |
| 274_21:25:53 | 0 | DFMS | Mode | 566 | 0 | 0 | 2517 | 274_22:07:50 |
| 274_22:07:50 | 0 | DFMS | Mode | 502 | 0 | 0 | 1155 | 274_22:27:05 |
| 274_22:27:05 | 0 | DFMS | Mode | 562 | 0 | 0 | 1605 | 274_22:53:50 |
| 274_22:53:50 | 0 | DFMS | Mode | 564 | 0 | 0 | 1673 | 274_23:21:43 |
| 274_23:21:43 | 0 | DFMS | Mode | 566 | 0 | 0 | 2517 | 274_00:03:40 |

275\_00:00:00

EOM