

Project Report Appendices

The following section contains the appendices as listed in the Utah 2016 - Washington County AOI Project Report.

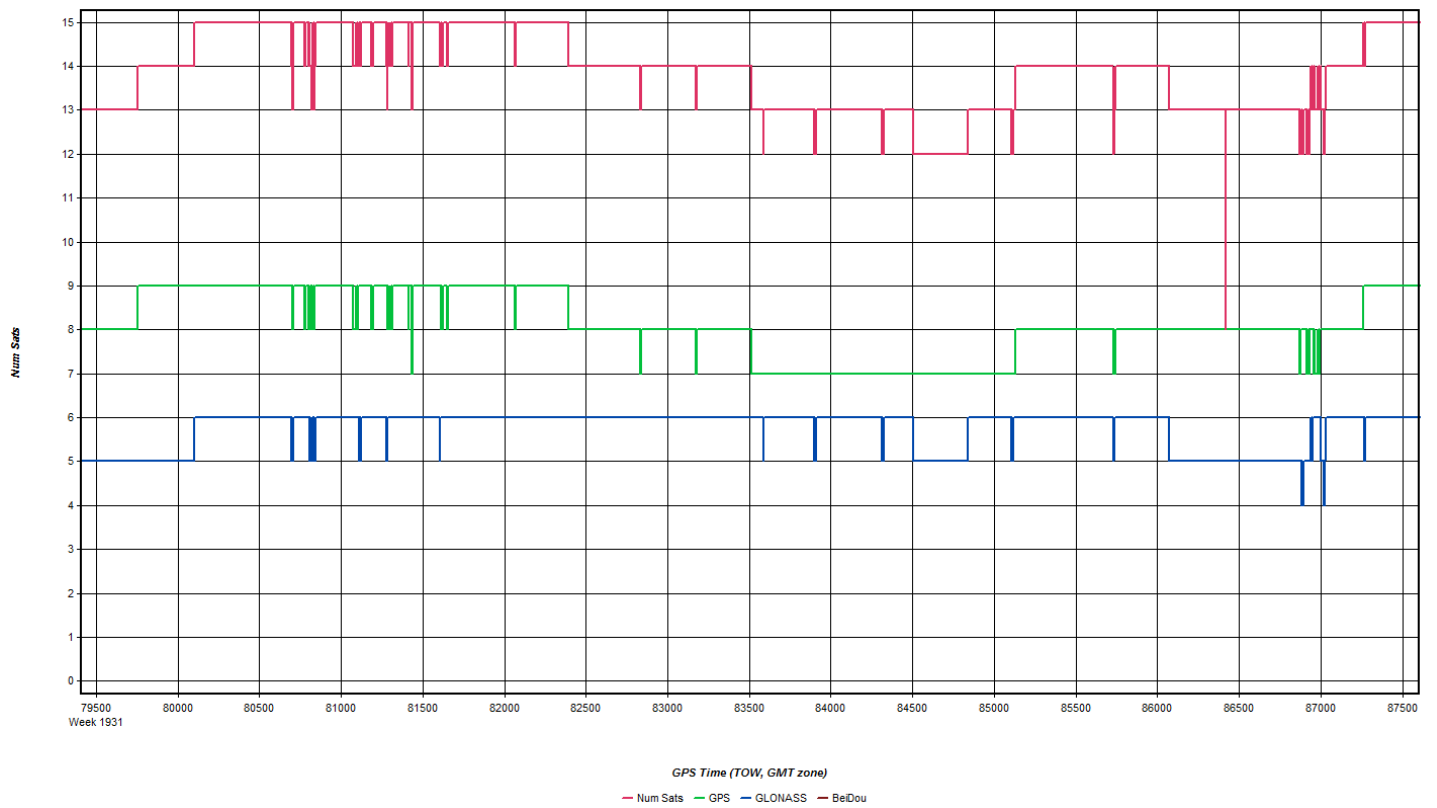
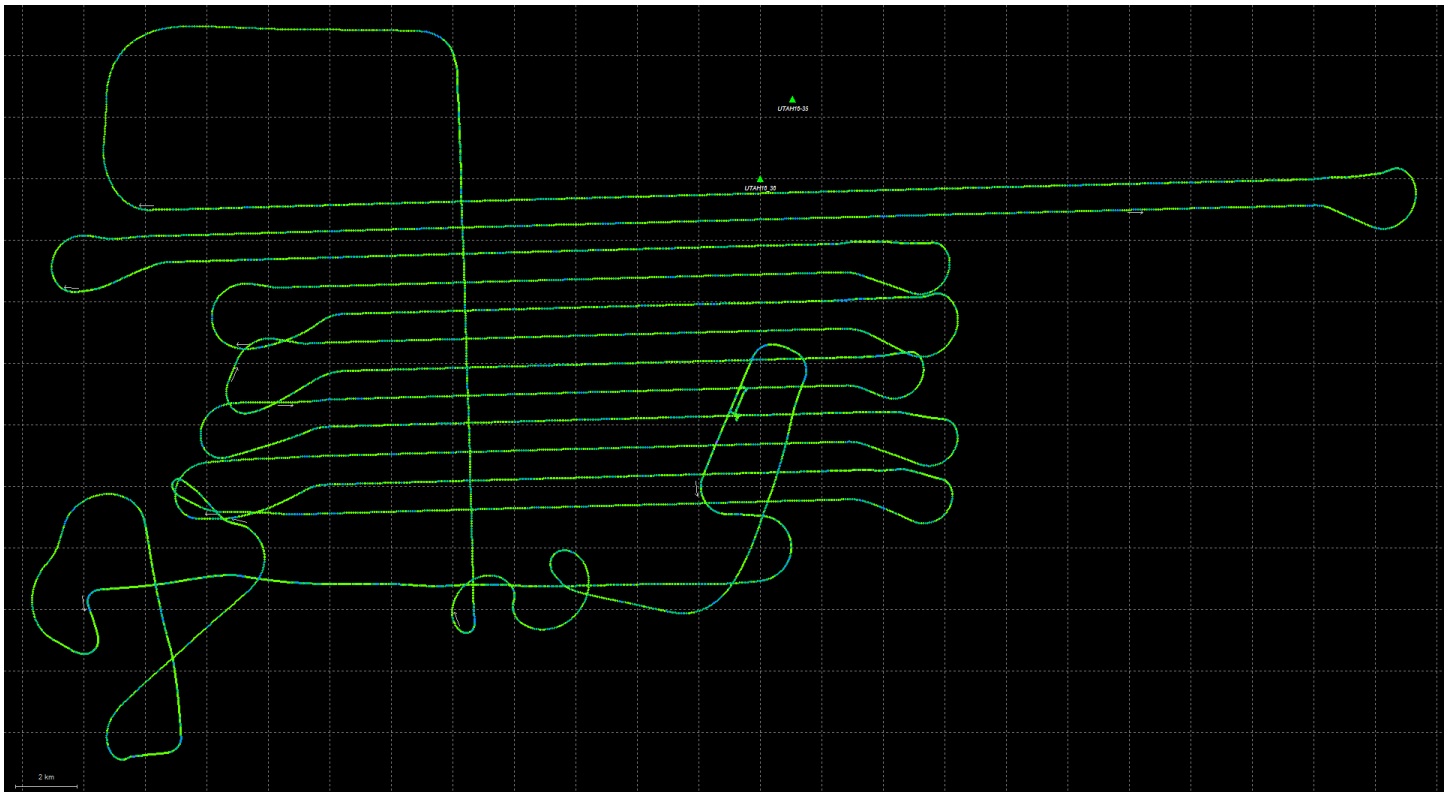
Appendix A

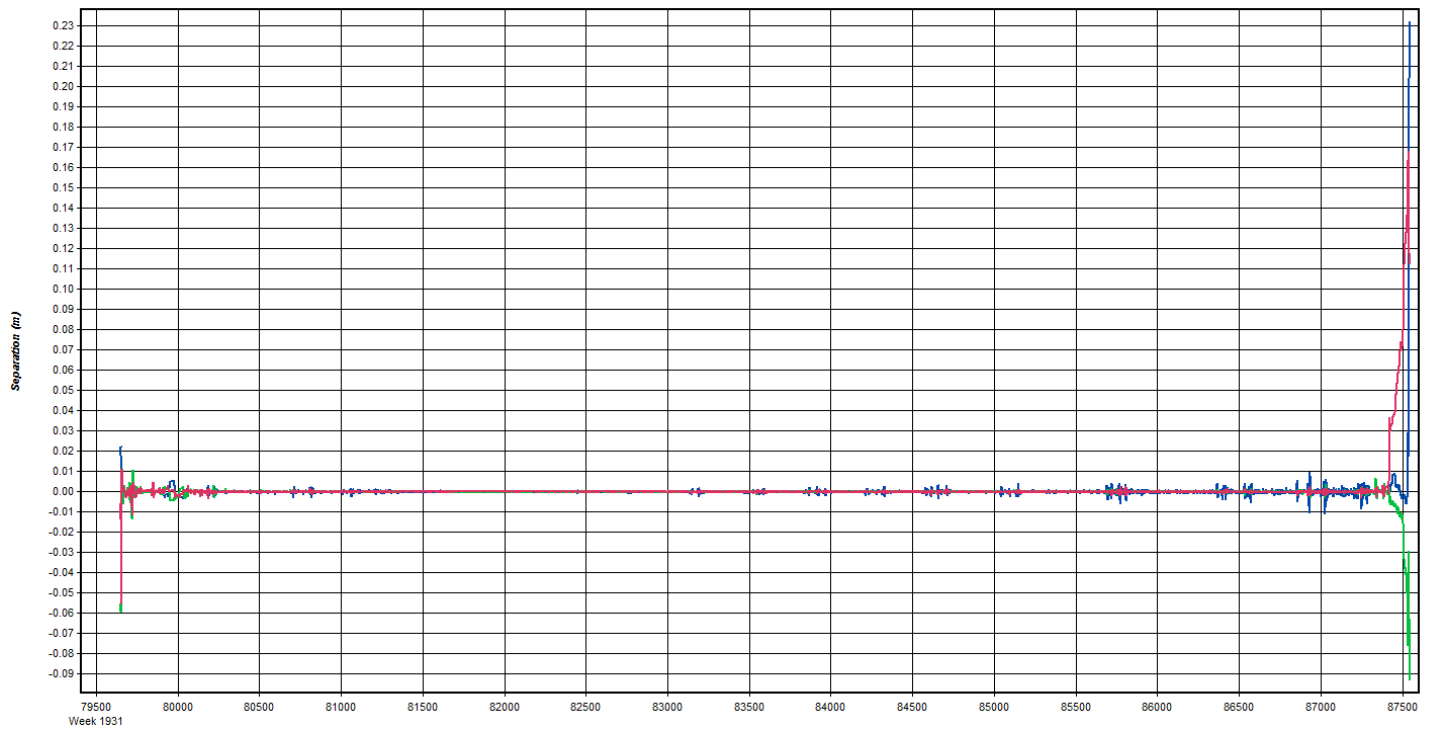
GPS/IMU Statistics Flight Logs

There were 14 total lifts. Graph reports generated from processing software and flight logs are found on the following pages.

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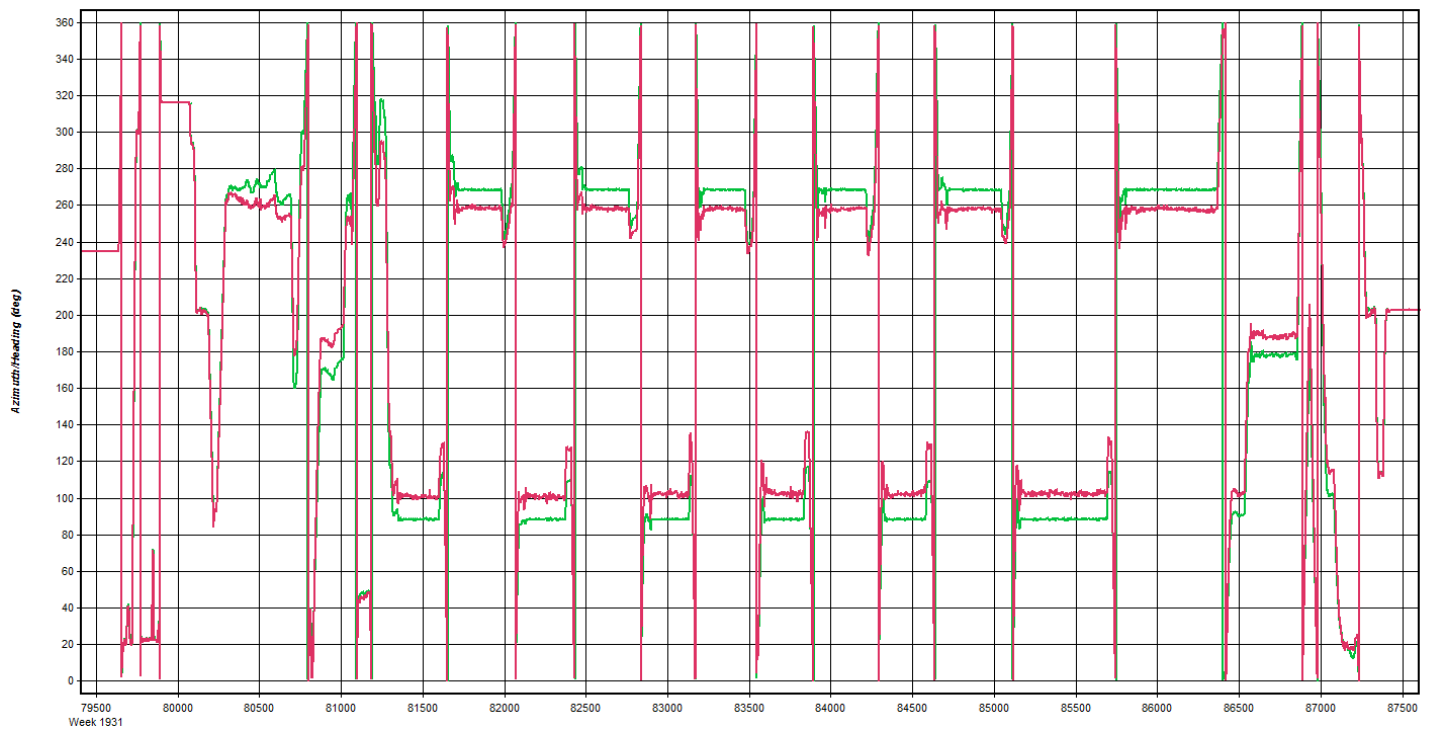
Jan 8, 2017-A (N604MD, SN8239)





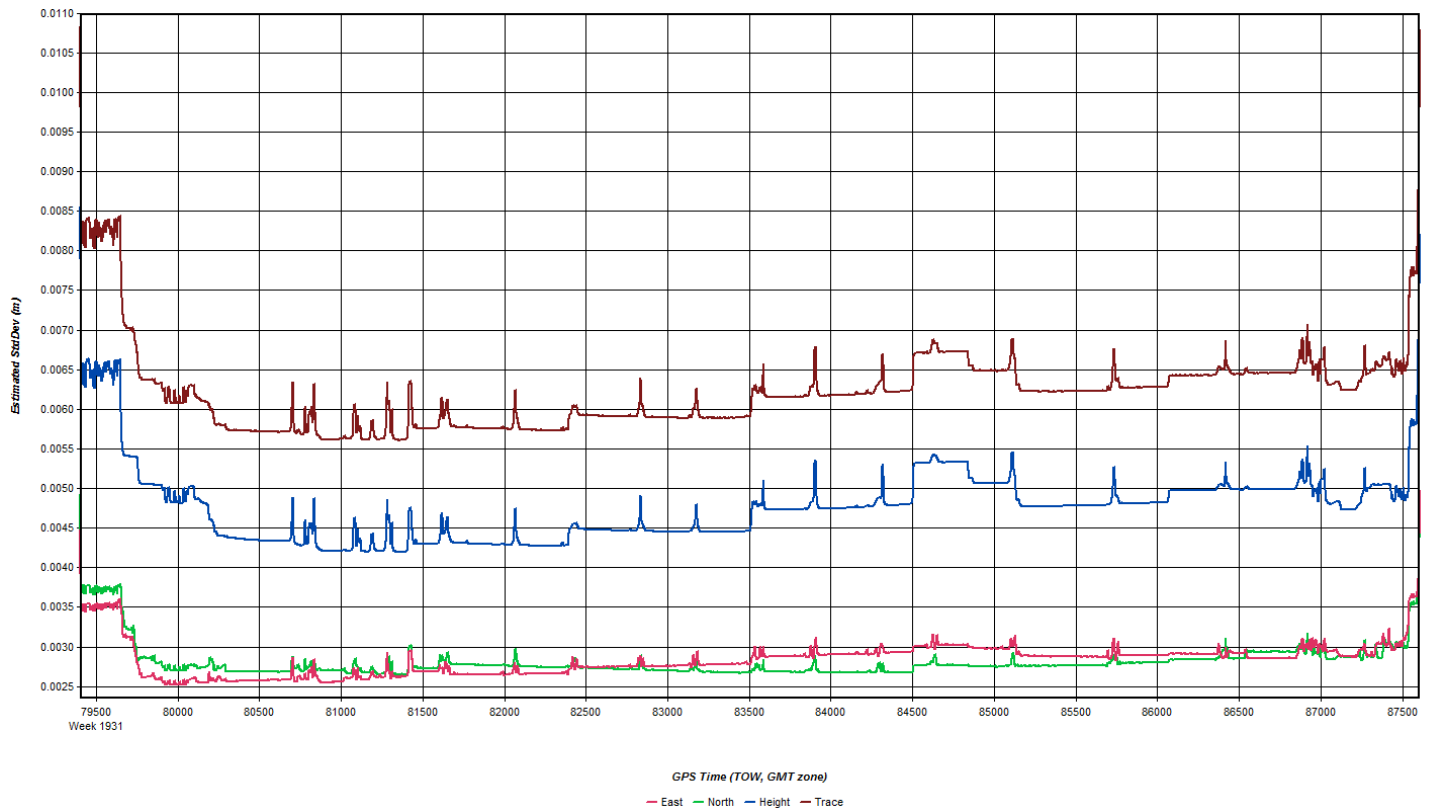
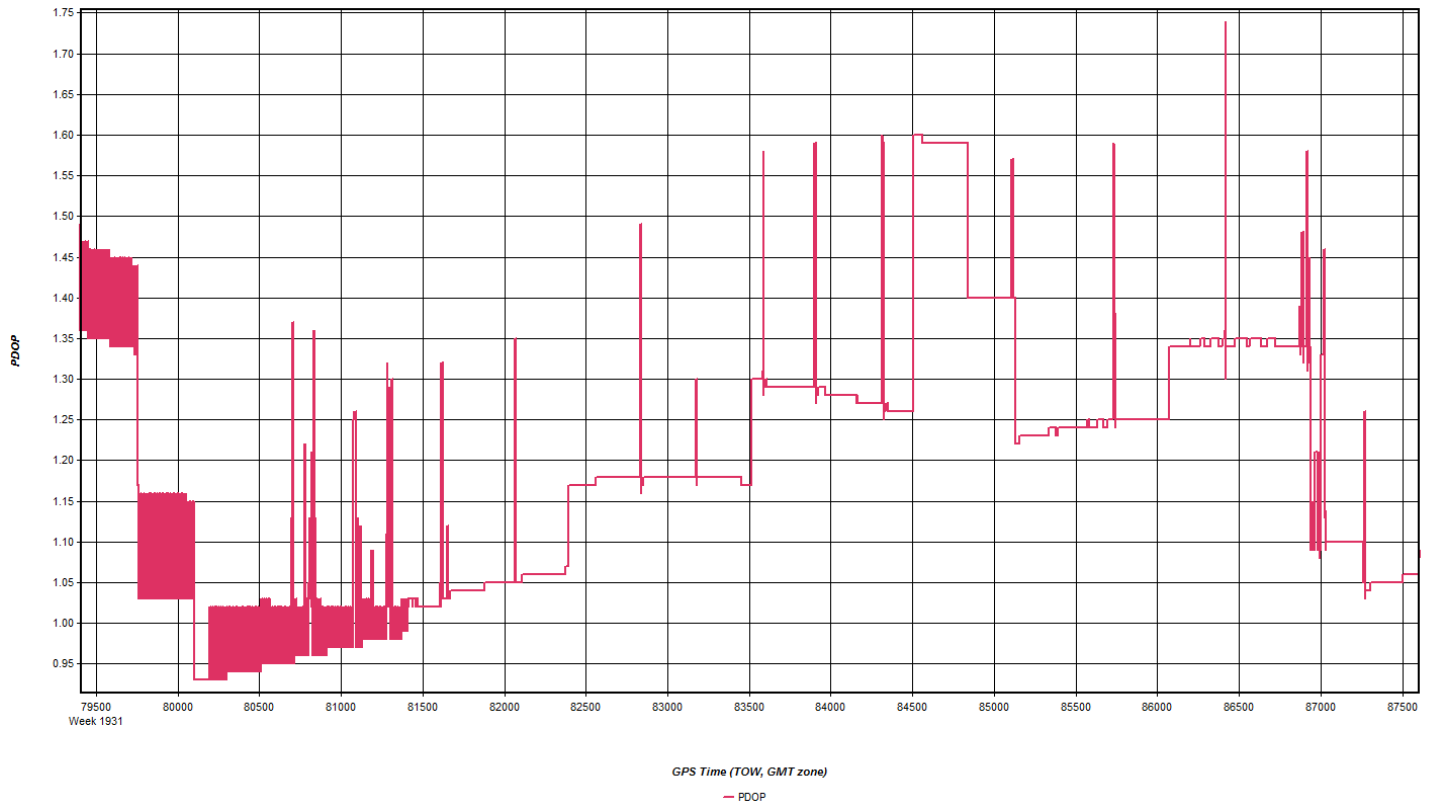
GPS Time (TOW, GMT zone)

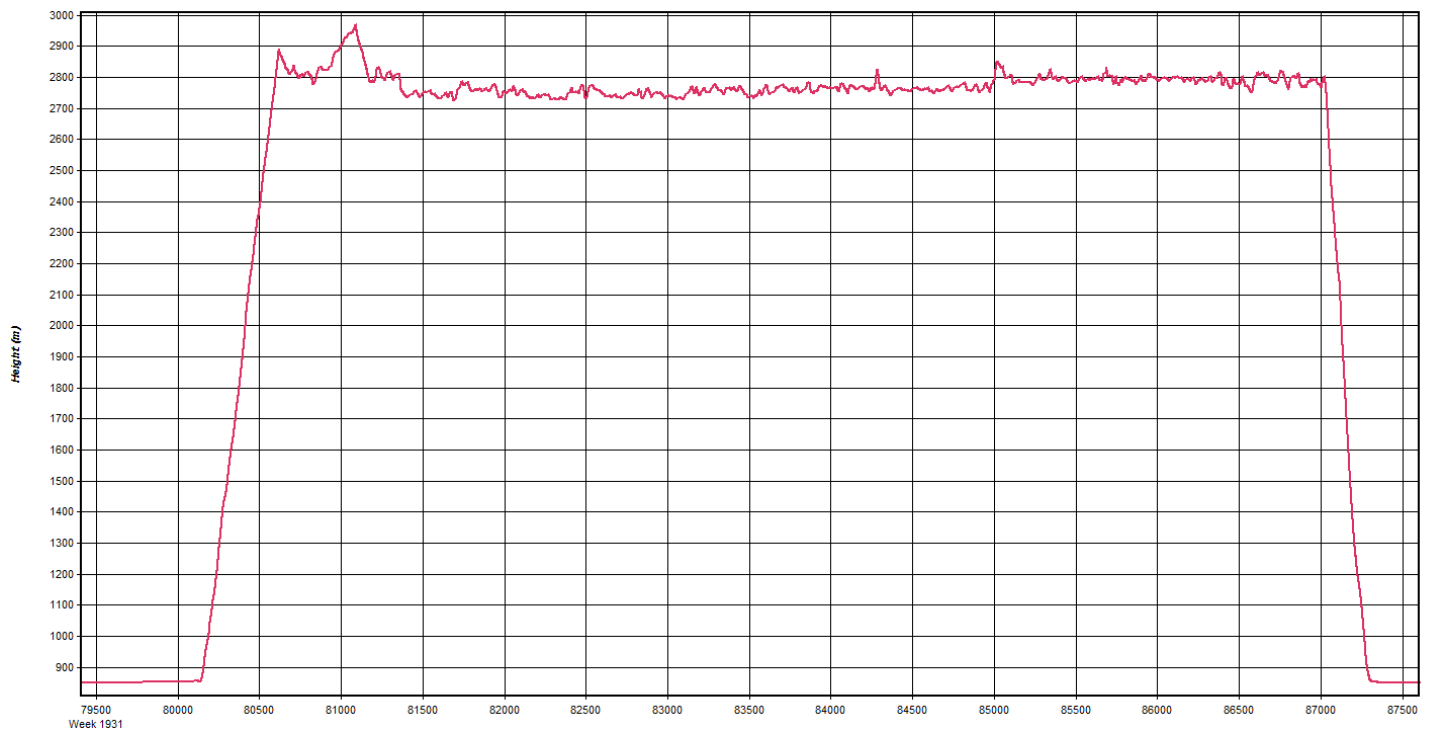
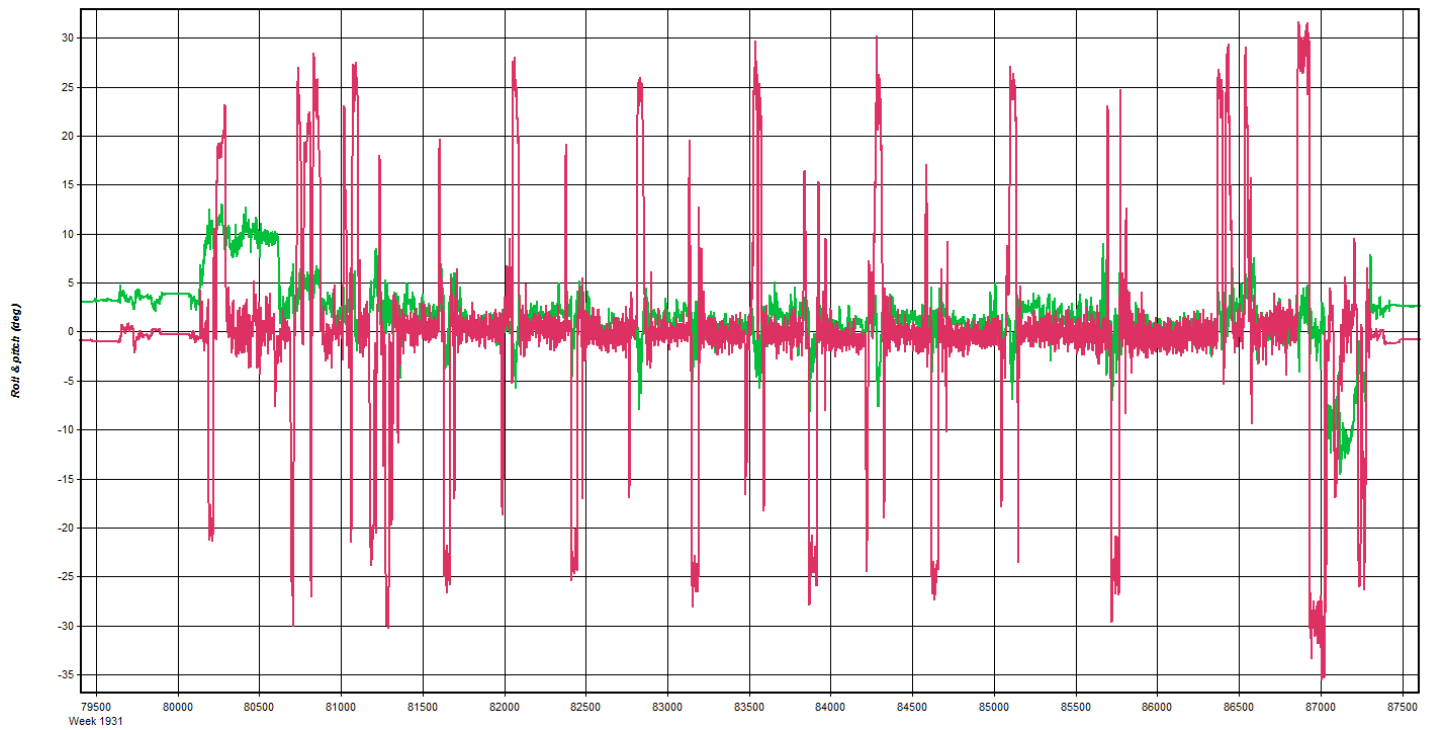
— East — North — Up

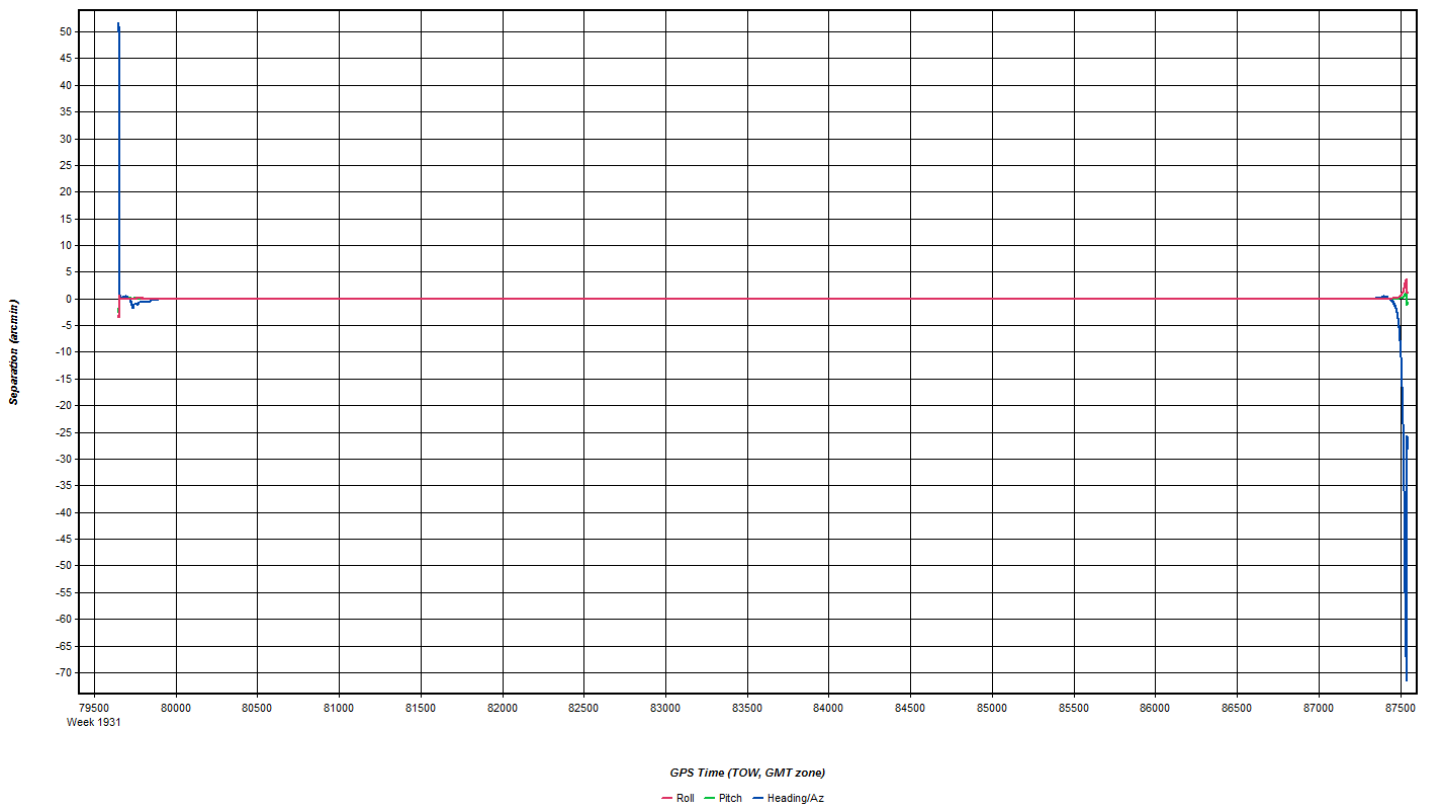
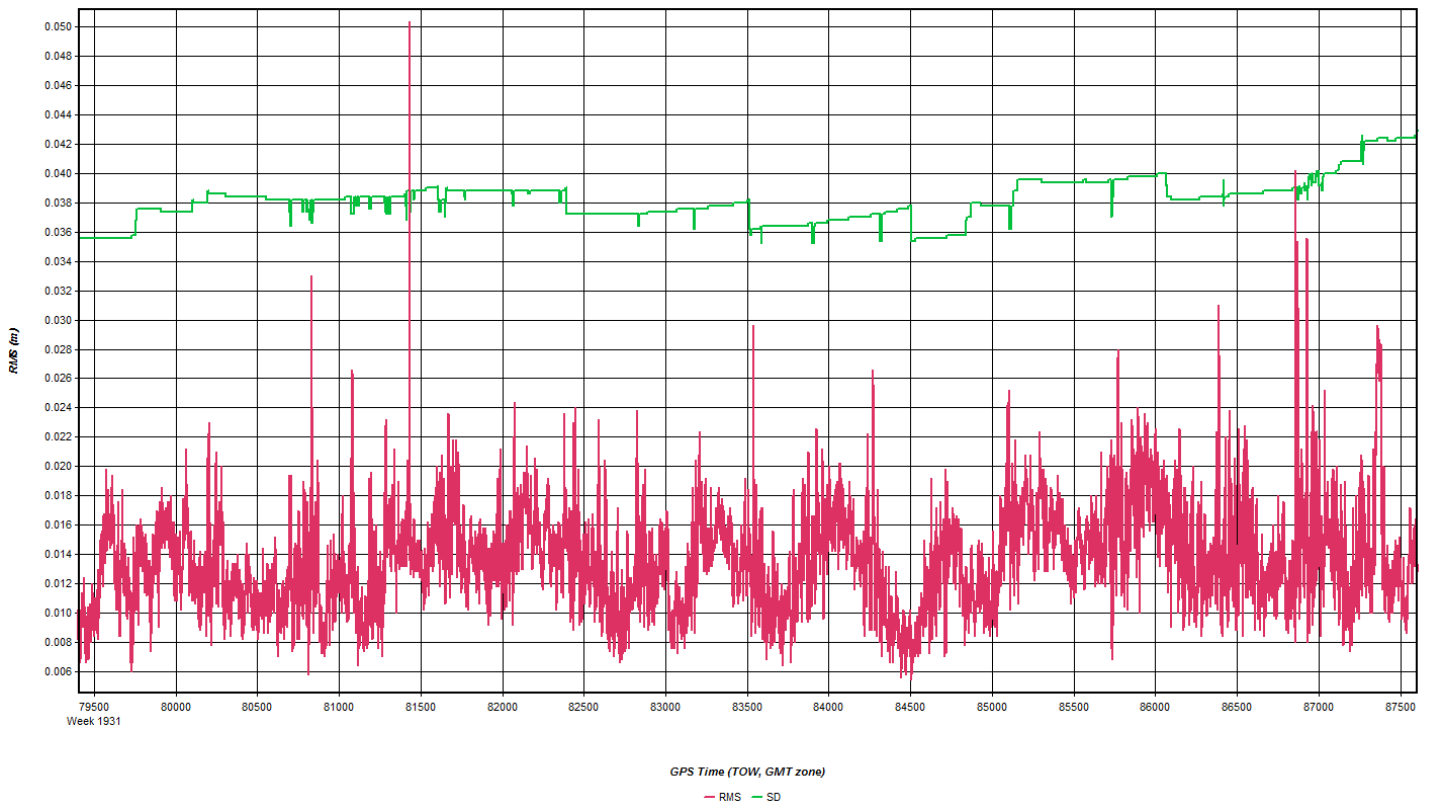


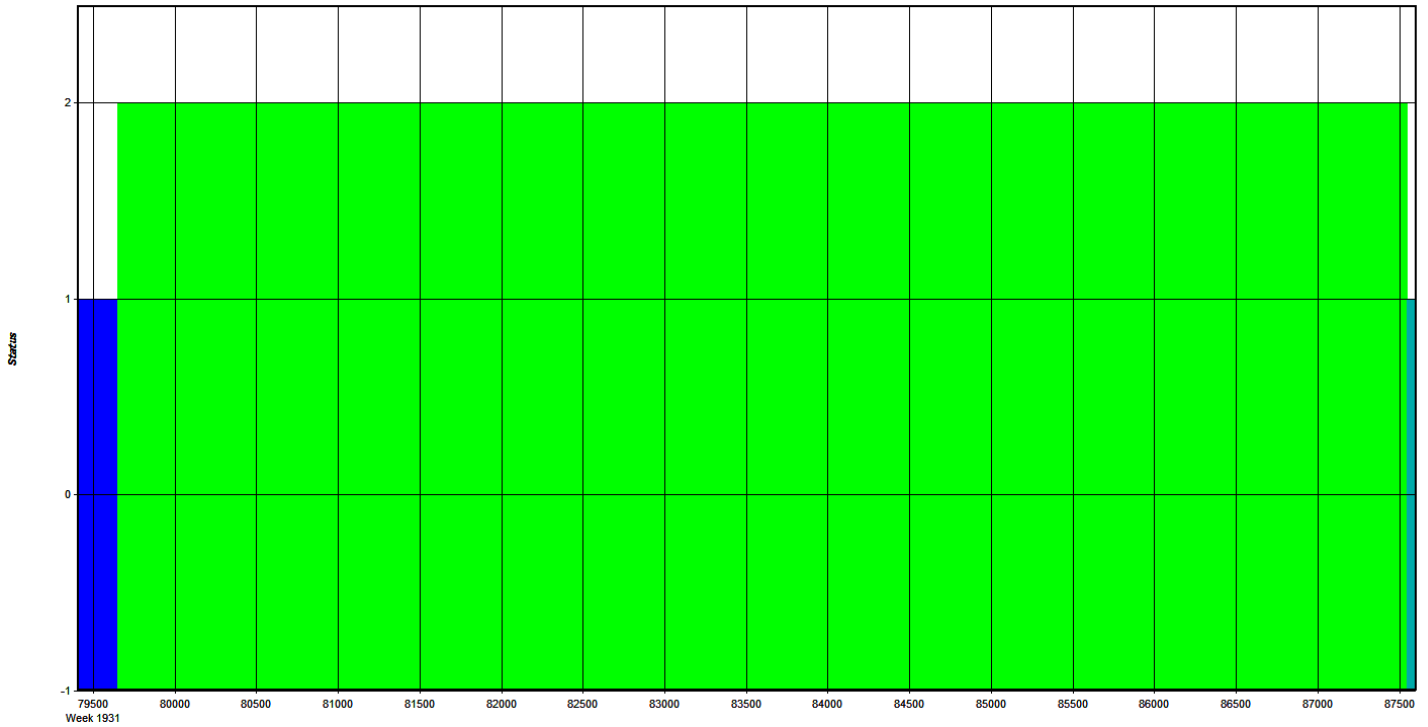
GPS Time (TOW, GMT zone)

— Heading/Azimuth — GPS-COG









GPS Time (TOW, GMT zone)
 - Float - Forward Fixed - Reverse Fixed - Fixed (2 or more)

Coordinate/Antenna Settings

Master Remote

Base Station
 2: UTAH16-35 Name: UTAH16-35 Disabled
 File: E:\Proc\29083_UTAH\From_Lara_Heitmeyer_1-26-17\Survey_Da

Coordinates
 Latitude: North 37 07 53.89287 Compute from PPP
 Longitude: West 113 29 06.63661 Enter Grid Values
 Ellipsoidal height: 838.881 m Enter MSL Height
 Datum: WGS84 Datum Options
 Select From Favorites Add To Favorites Use Average Position

Antenna Height
 From station file: TRM55971.00 View STA File
 Antenna profile: TRM57971.00 Info
 Measured height: 1.800 m
 ARP to L1 offset: 0.067 m
 Applied height: 1.867 m
 Measured to:
 ARP
 L1 Phase Centre
 Compute From Slant

OK Cancel

Coordinate/Antenna Settings

Master Remote

Base Station
 1: UTAH16_36 Name: UTAH16_36 Disabled
 File: E:\Proc\29083_UTAH\From_Lara_Heitmeyer_1-26-17\Survey_Da

Coordinates
 Latitude: North 37 06 30.25986 Compute from PPP
 Longitude: West 113 29 48.66465 Enter Grid Values
 Ellipsoidal height: 783.396 m Enter MSL Height
 Datum: WGS84 Datum Options
 Select From Favorites Add To Favorites Use Average Position

Antenna Height
 From station file: TRM55971.00 View STA File
 Antenna profile: TRM57971.00 Info
 Measured height: 1.800 m
 ARP to L1 offset: 0.067 m
 Applied height: 1.867 m
 Measured to:
 ARP
 L1 Phase Centre
 Compute From Slant

OK Cancel

Flight Log

Date: 11/20/2016	Aircraft:	Sensor:
Project: Utah 2016 LiDAR		Project #: R029083
Flight Mgmt File: FMSL_Utah_WACounty_SN8239		
Pilot: Bob Cale		Sensor Operator: Charlie Oncea

	Flight 1	Flight 2	Flight 3	Flight 4
Wheels Up	3:14:00 PM			
Wheels Down	5:19:00 PM			
Begin Hobbs	11972.8			
End Hobbs	11974.8			
On-line Hobbs: 1.8		Mob Hobbs: 0.2		

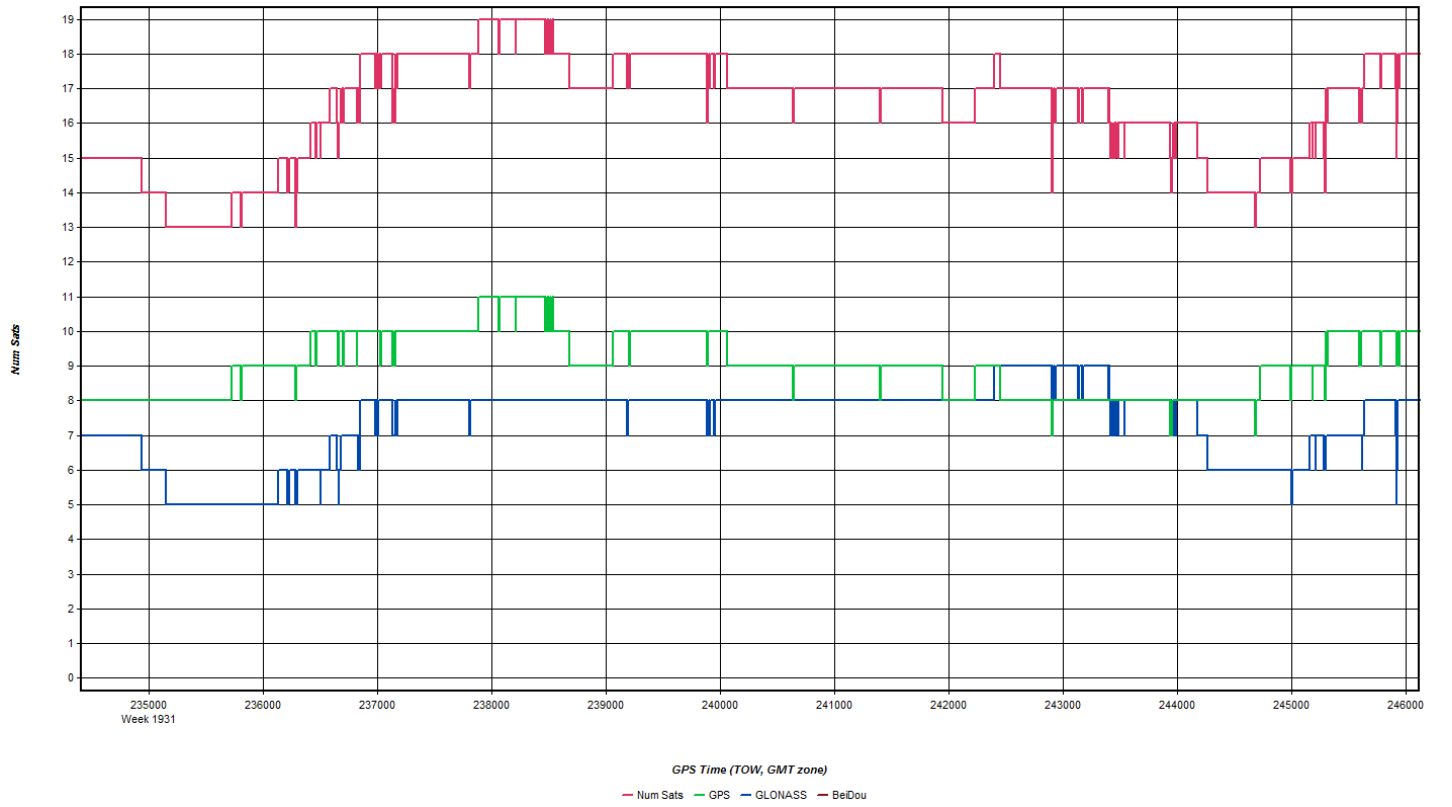
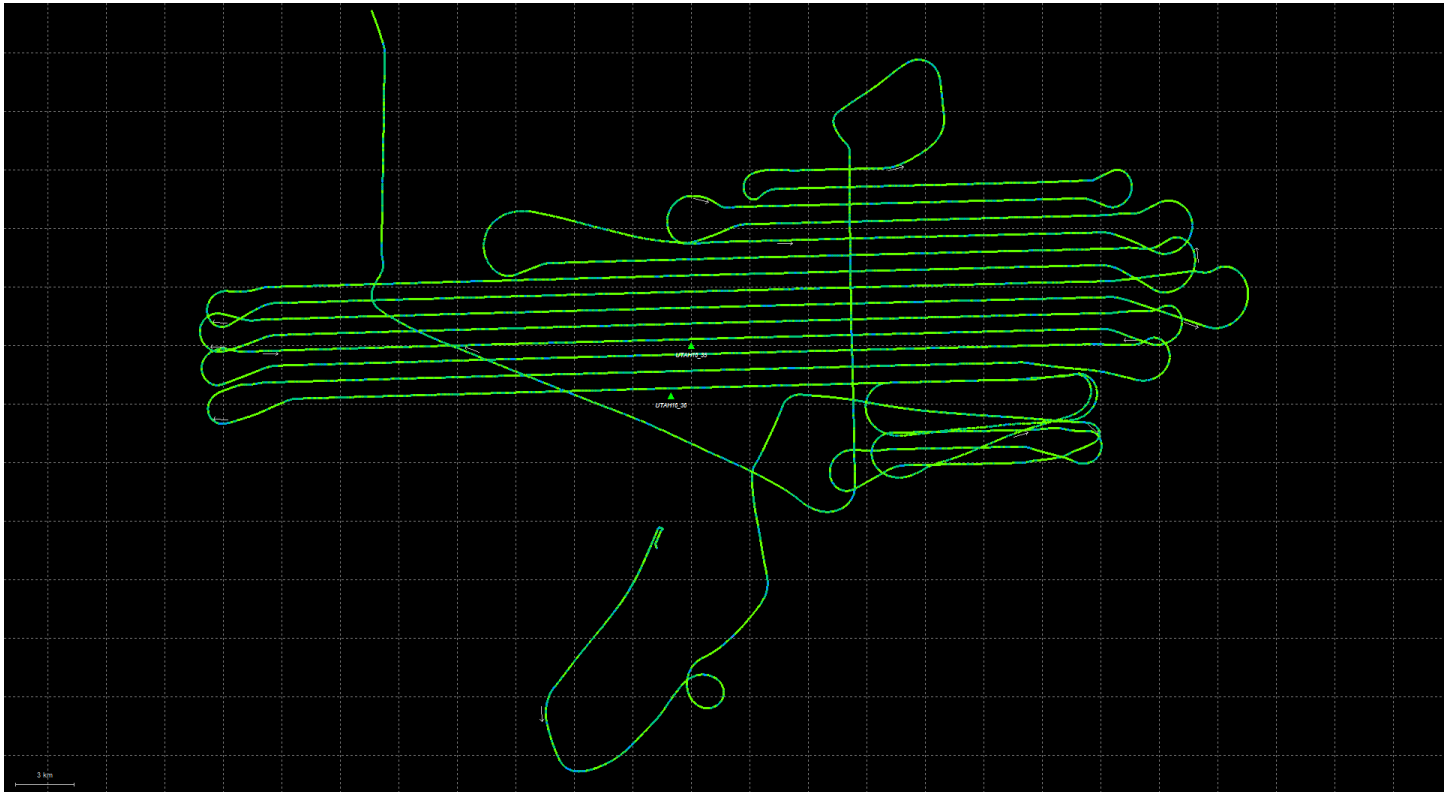
Notes

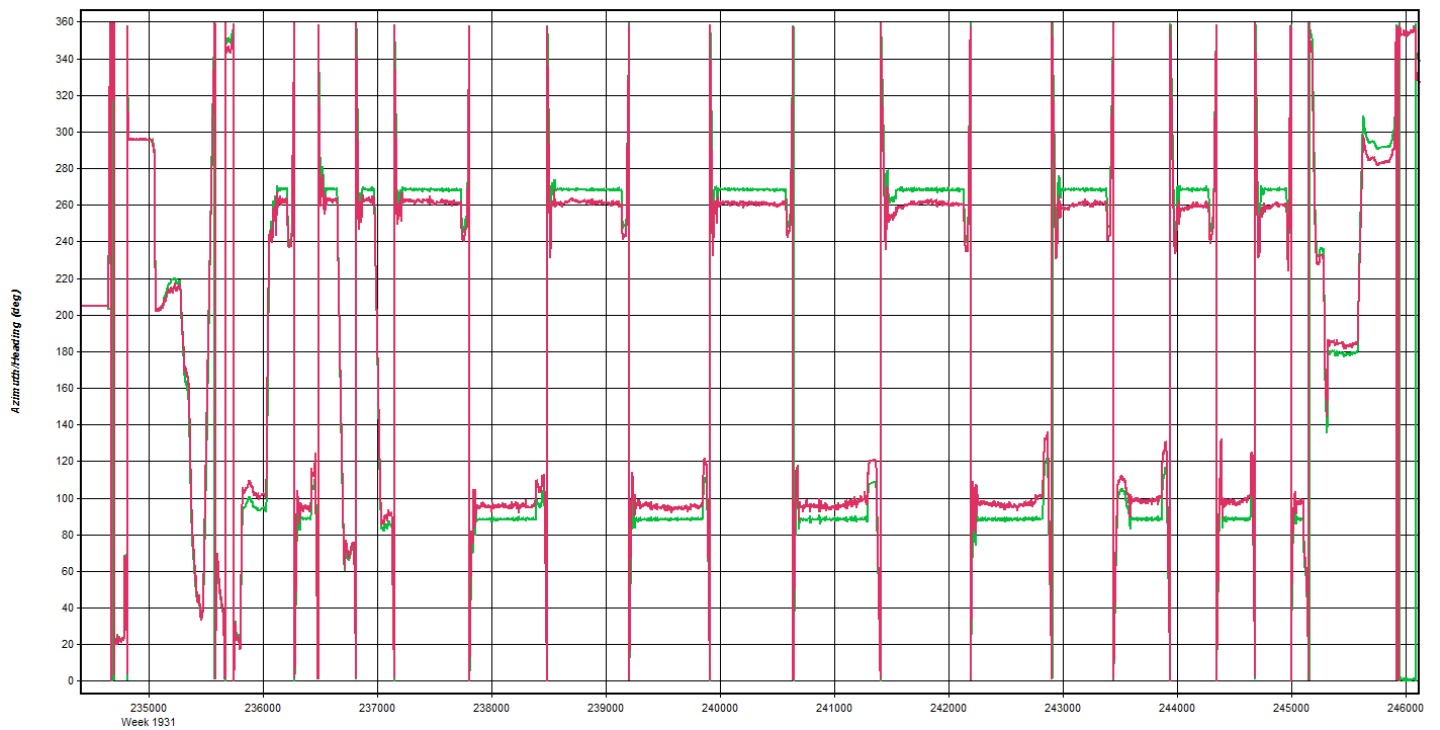
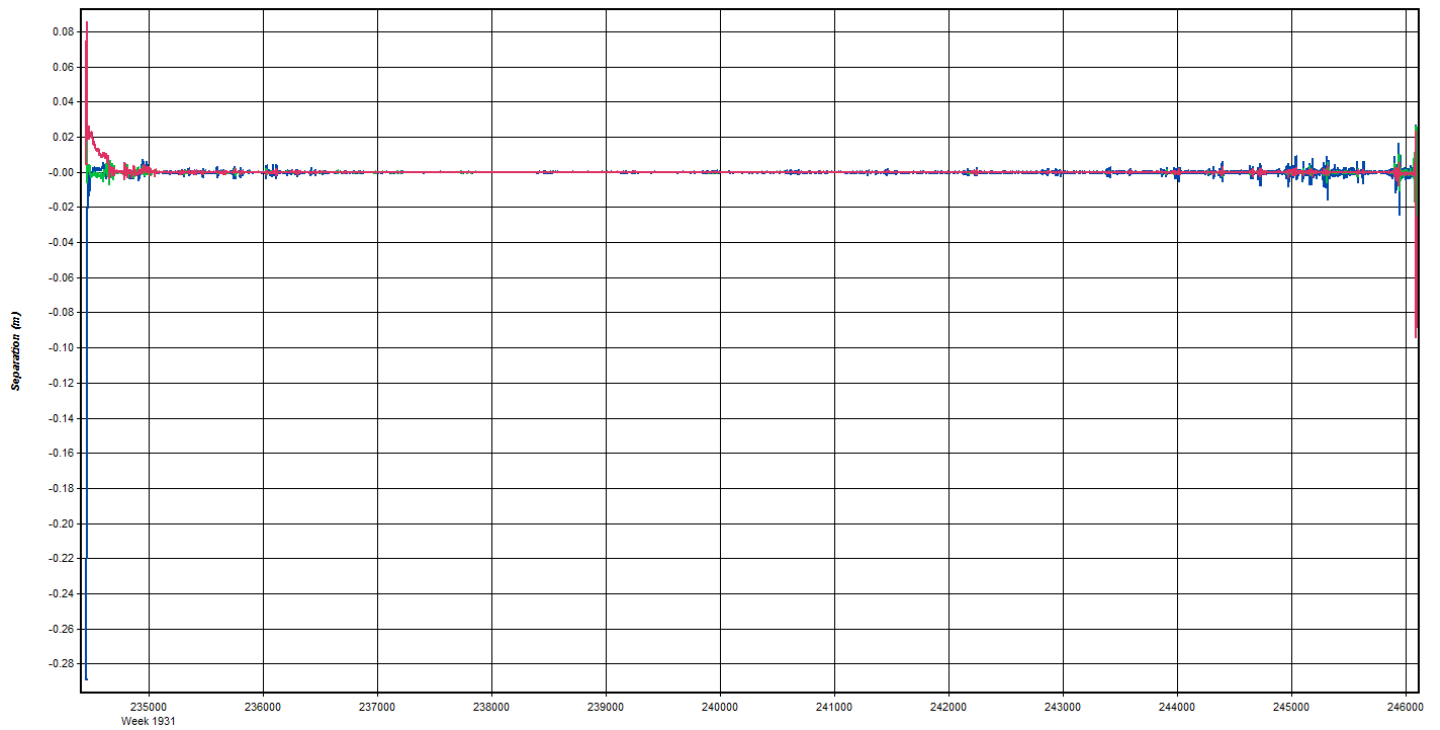
Went to the airport early and waited all day for the clouds to lift. they stayed just below the project height until late in the day, and we got a chance for a short evening flight.

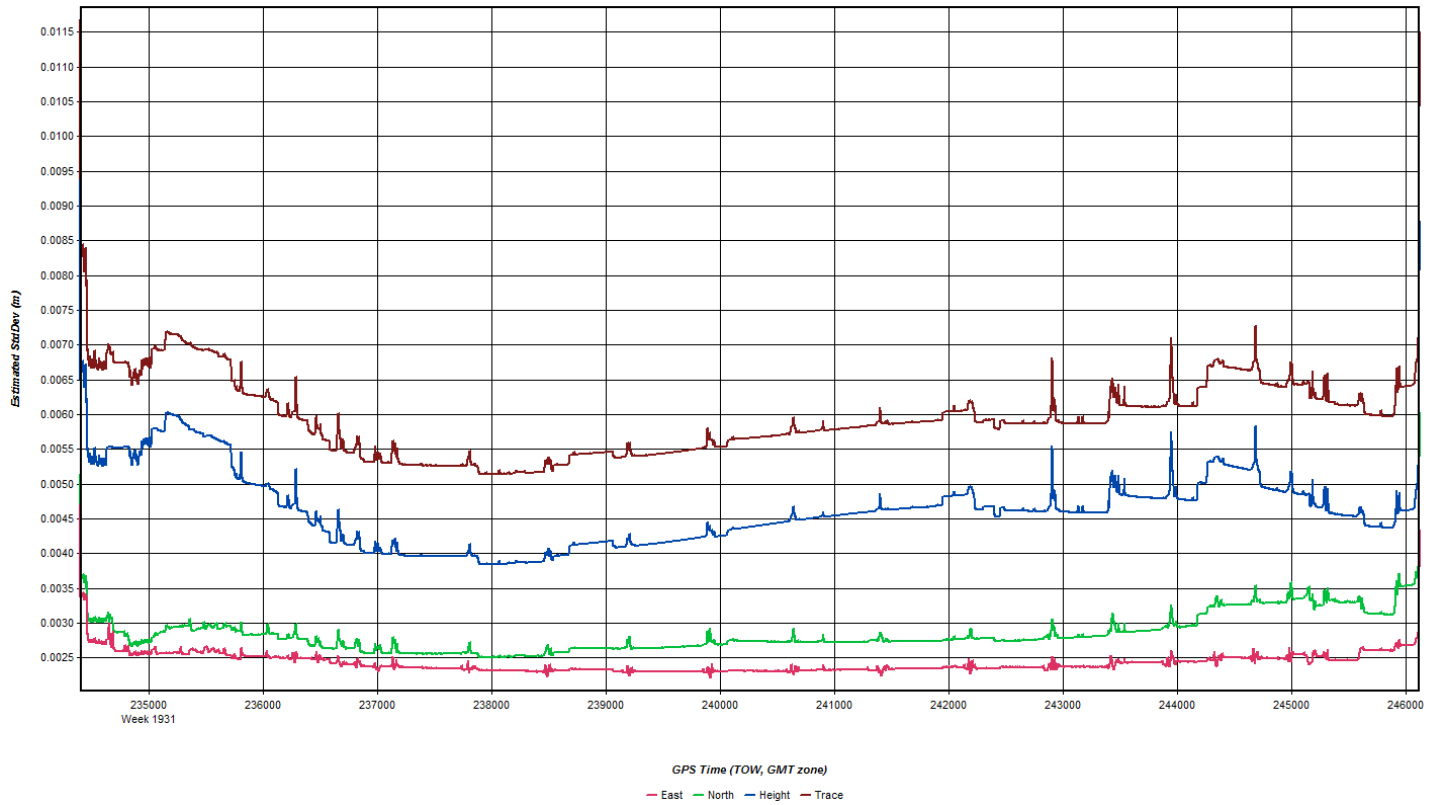
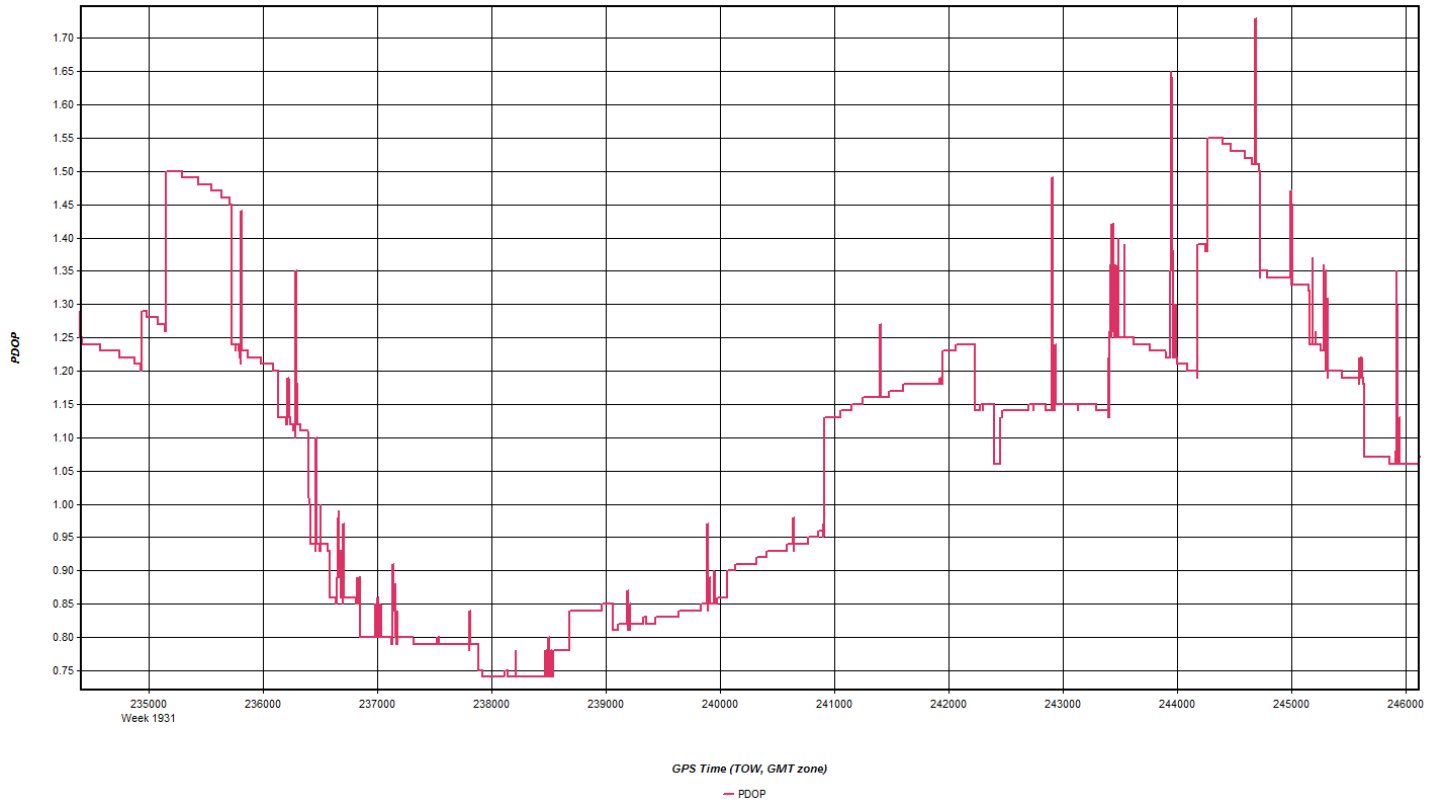
Flt Mgmt File: FMSL_Utah_WACounty_SN8239

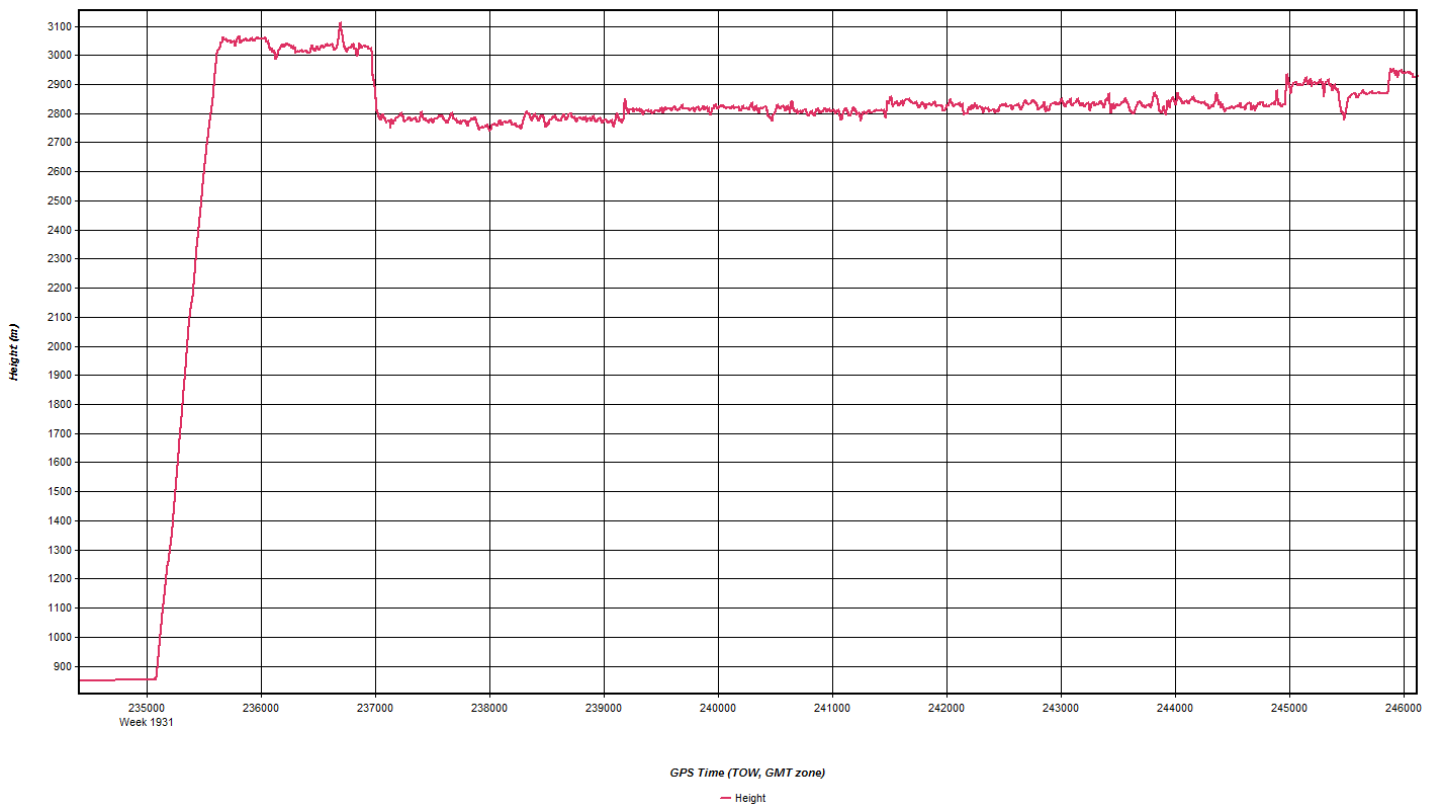
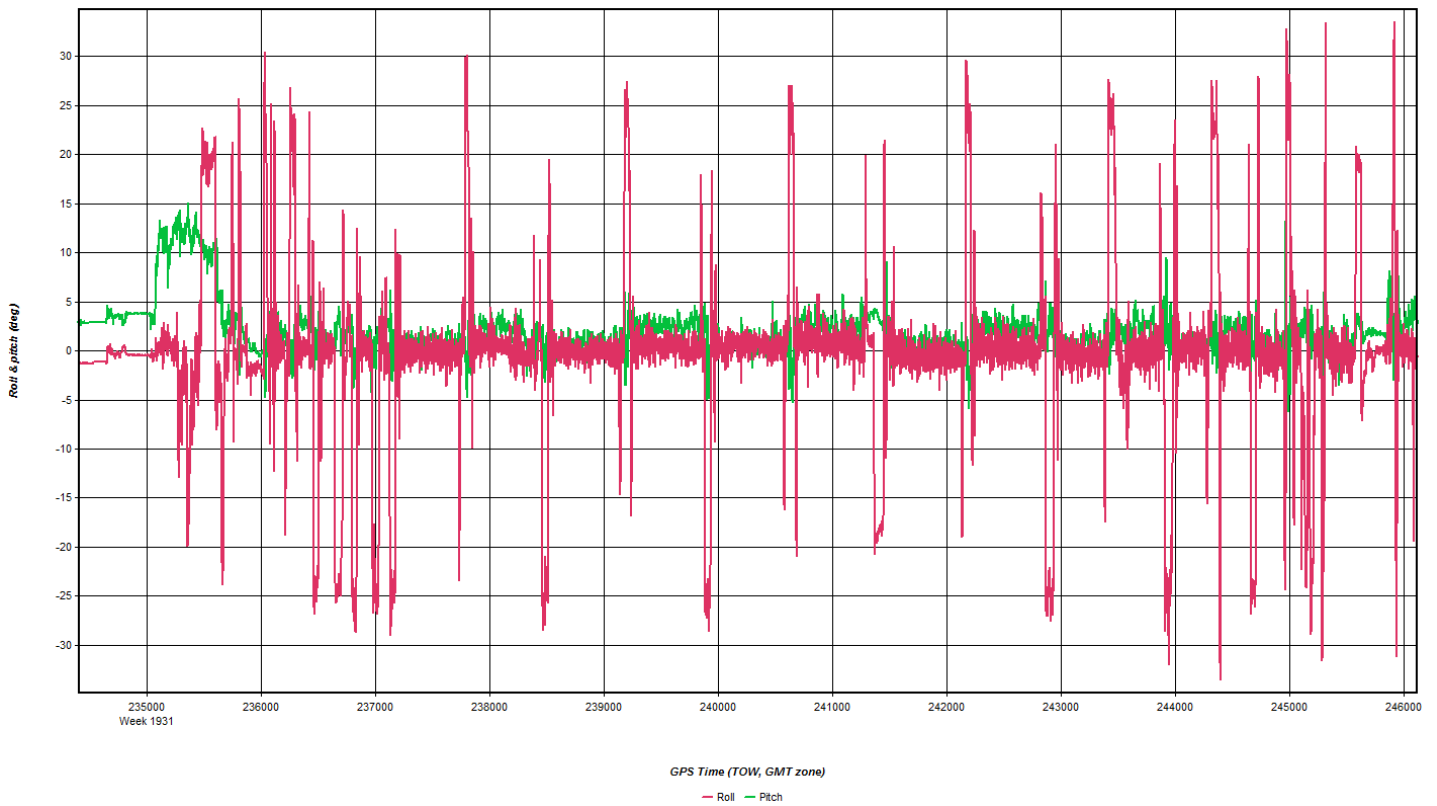
26	10:35:00 PM	2053.2178	10:39:00 PM
25	10:41:00 PM	1896.709	10:46:00 PM
24	10:48:00 PM	2024.0305	10:52:00 PM
23	10:54:00 PM	1826.4469	10:59:00 PM
22	11:01:00 PM	1978.5013	11:05:00 PM
21	11:06:00 PM	1892.3292	11:10:00 PM
20	11:13:00 PM	1965.6786	11:16:00 PM
19	11:19:00 PM	1904.408	11:23:00 PM
18	11:25:00 PM	1894.822	11:29:00 PM
17	11:31:00 PM	1843.6351	11:37:00 PM
16	11:39:00 PM	1825.5376	11:47:00 PM
15	11:49:00 PM	1471.9822	11:59:00 PM
UL001	12:02:00 AM	1935.3015	12:07:00 AM

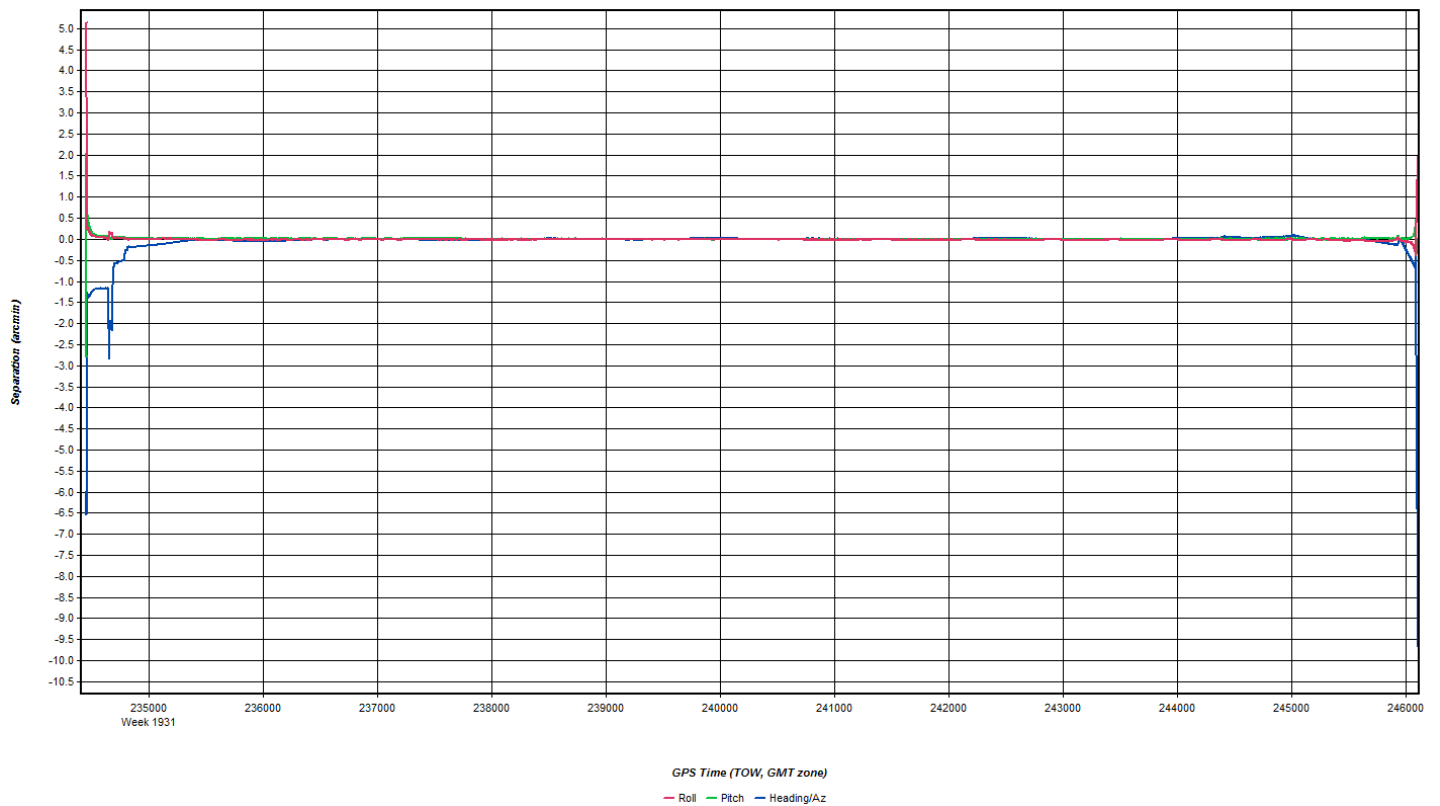
Jan 10, 2017-A (N604MD, SN8239)

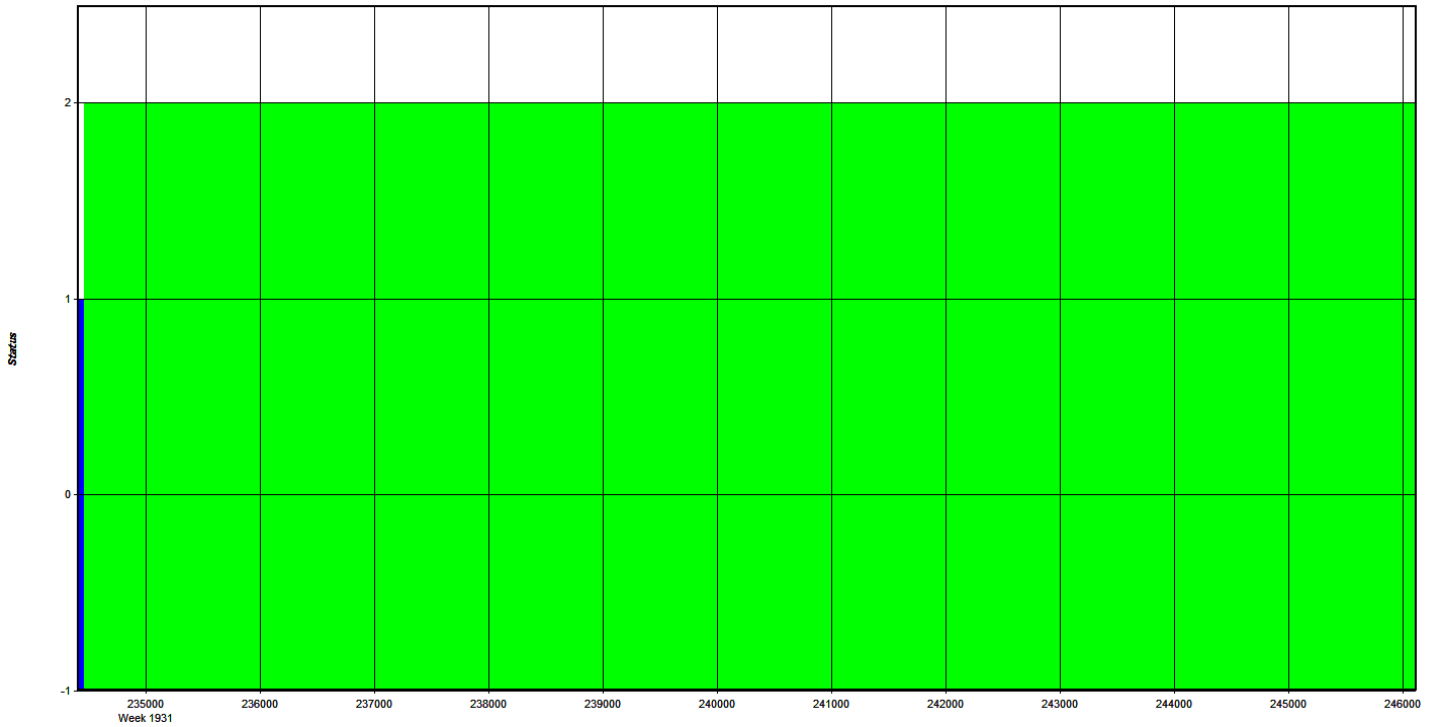












GPS Time (TOW, GMT zone)
 - Float - Forward Fixed - Reverse Fixed - Fixed (2 or more)

Coordinate/Antenna Settings

Master Remote

Base Station
 1: UTAH16_35 Name: UTAH16_35 Disabled
 File: E:\Proc\29083_UTAH\From_Lara_Heitmeyer_1-26-17\Survey_Da

Coordinates
 Latitude: North 37 07 53.89287 Compute from PPP
 Longitude: West 113 29 06.63661 Enter Grid Values
 Ellipsoidal height: 838.881 m Enter MSL Height
 Datum: WGS84 Datum Options
 Select From Favorites Add To Favorites Use Average Position

Antenna Height
 From station file: TRM55971.00 View STA File
 Antenna profile: TRM57971.00 Info
 Measured height: 1.800 m
 ARP to L1 offset: 0.067 m
 Applied height: 1.867 m
 Measured to:
 ARP
 L1 Phase Centre
 Compute From Slant

OK Cancel

Coordinate/Antenna Settings ? X

Master Remote

Base Station
2: UTAH16_36 Name: UTAH16_36 Disabled
File: E:\Proc\29083_UTAH\From_Lara_Heitmeyer_1-26-17\Survey_Da

Coordinates
Latitude: North 37 06 30.25986 Compute from PPP
Longitude: West 113 29 48.66465 Enter Grid Values
Ellipsoidal height: 783.396 m Enter MSL Height
Datum: WGS84 Datum Options
Select From Favorites Add To Favorites Use Average Position

Antenna Height
From station file: TRM55971.00 View STA File
Antenna profile: TRM57971.00 Info
Measured height: 1.800 m
ARP to L1 offset: 0.067 m
Applied height: 1.867 m
Measured to:
 ARP
 L1 Phase Centre
Compute From Slant

OK Cancel

Flight Log

Date: 1/10/2017	Aircraft: N604MD	Sensor: 8239
Project: Utah 2016 LiDAR		Project #: R029083
Flight Mgmt File: FMSL_Utah_WACounty_SN8239		
Pilot: Bob Cale		Sensor Operator: Charlie Oncea

	Flight 1	Flight 2	Flight 3	Flight 4
Wheels Up	9:17:00 AM			
Wheels Down	2:18:00 AM			
Begin Hobbs	11975.2			
End Hobbs	11980.1			
On-line Hobbs: 4.1		Mob Hobbs: 0.8		

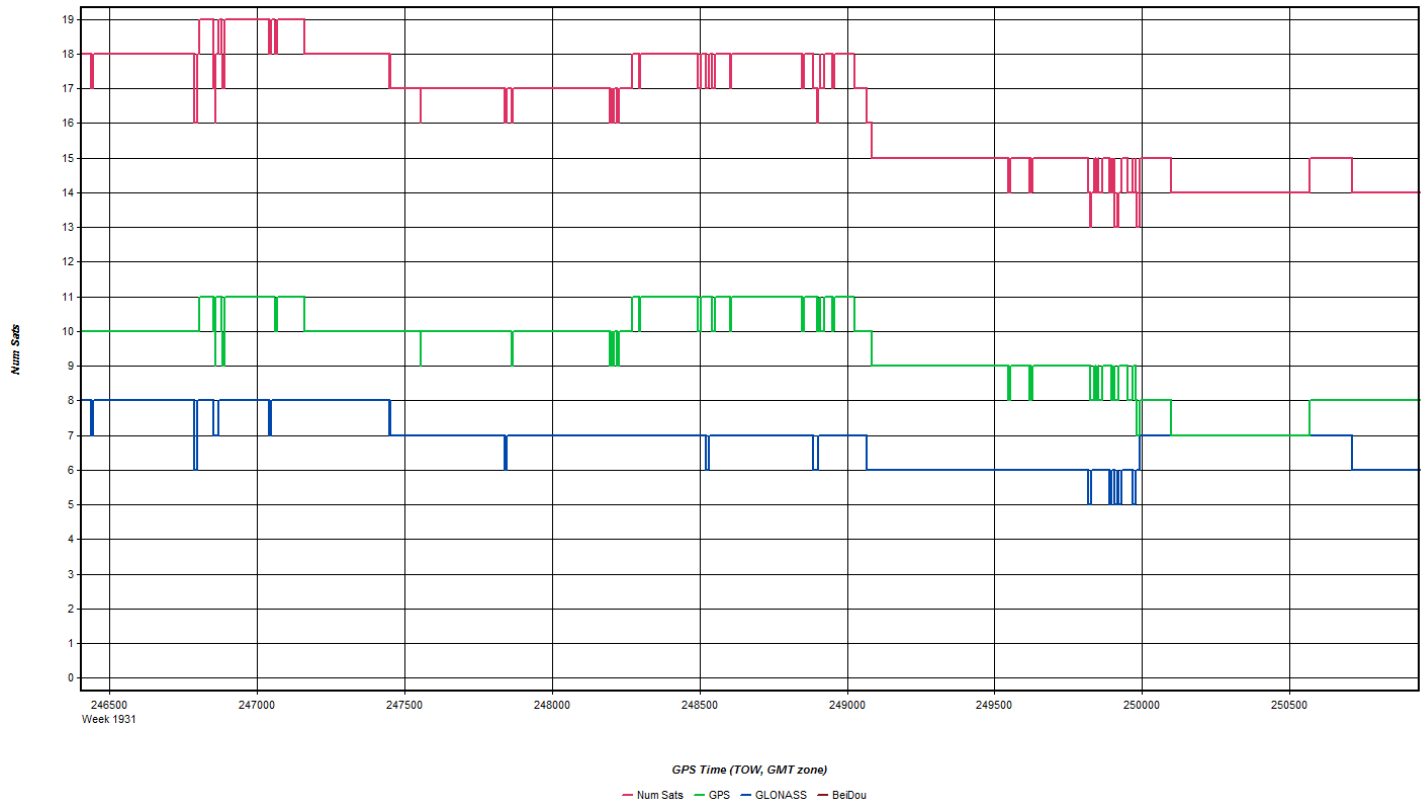
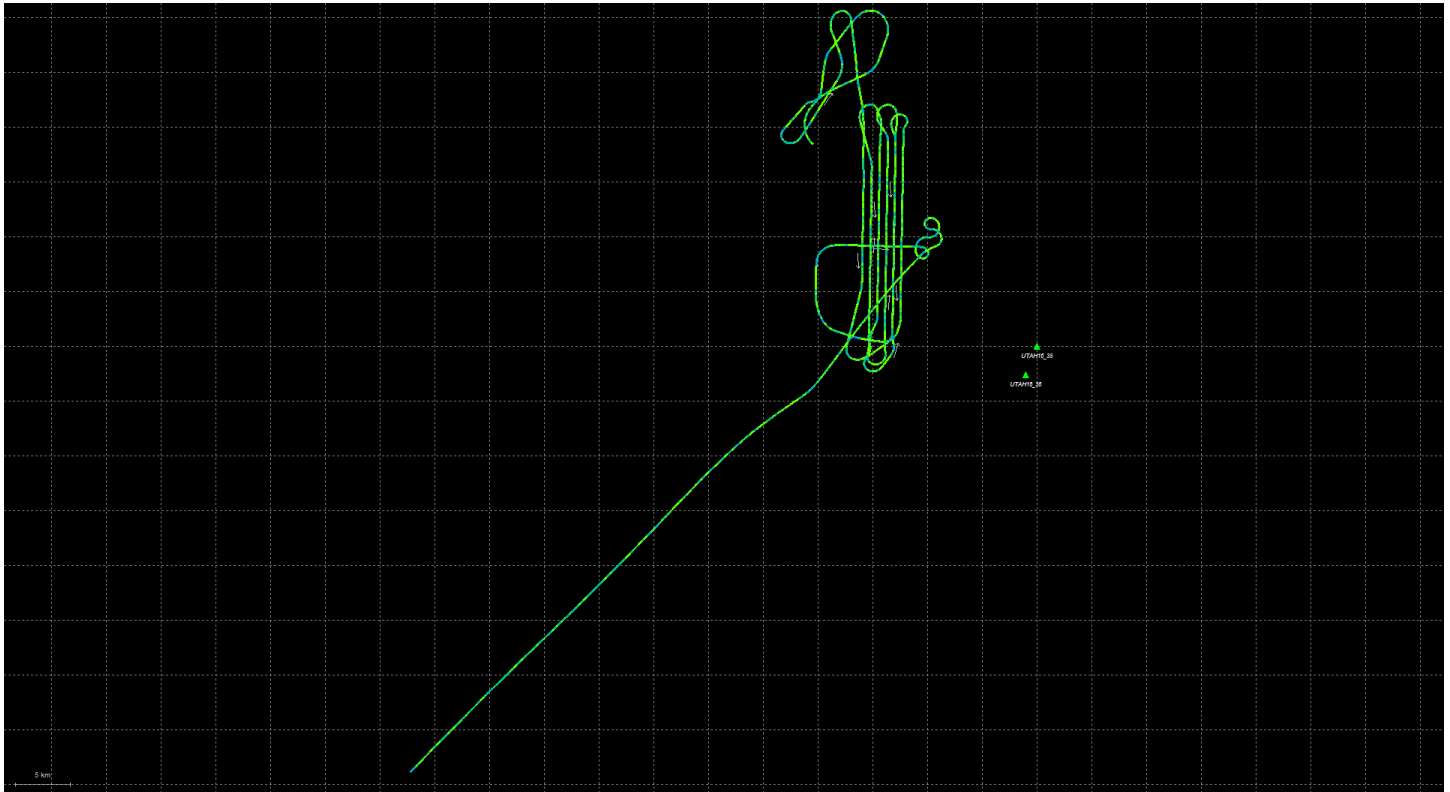
Notes

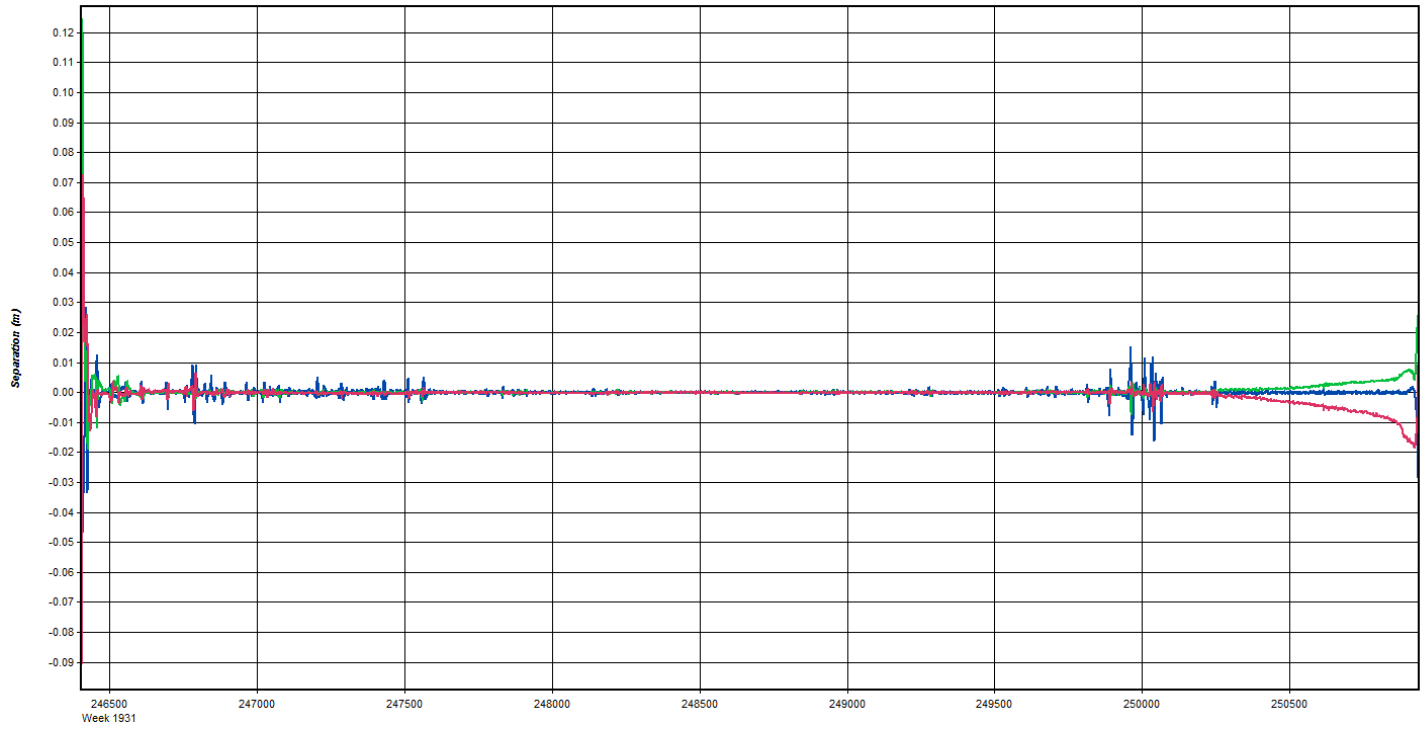
Finally got a chance at a good flight, cut it a bit short due to turbulence. Some snow scouting, a few areas still have snow but melting fast. No WA county DEM available, still waiting on it for INS2KML processing

Flt Mgmt File: FMSL_Utah_WACounty_SN8239

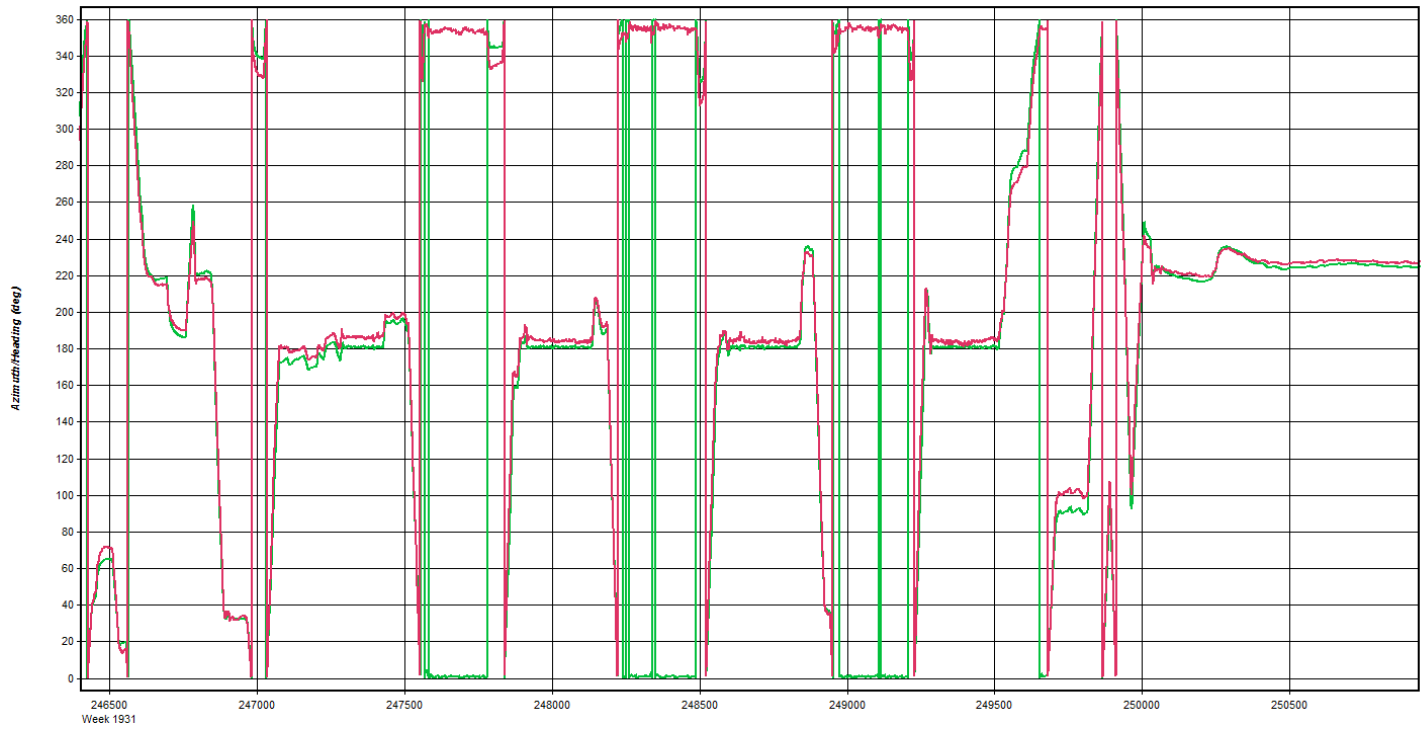
129	5:35:01 PM	1657.807007	5:36:33 PM
128	5:38:37 PM	2053.199463	5:40:03 PM
127	5:42:16 PM	1663.133789	5:43:44 PM
14	5:47:39 PM	1725.480713	5:49:24 PM
14	5:53:17 PM	1504.791748	6:01:57 PM
13	6:04:08 PM	1693.159424	6:12:50 PM
12	6:15:34 PM	1519.195557	6:25:21 PM
11	6:27:28 PM	1823.555664	6:37:13 PM
10	6:39:29 PM	1577.410767	6:49:23 PM
9	6:51:25 PM	1870.961914	7:01:08 PM
8	7:05:29 PM	1678.911255	7:15:18 PM
7	7:17:10 PM	1805.286377	7:26:49 PM
6	7:29:36 PM	1709.731079	7:36:05 PM
5	7:39:58 PM	1831.113159	7:44:10 PM
4	7:46:49 PM	1781.921143	7:51:03 PM
3	7:53:11 PM	1737.742798	7:57:08 PM
2	7:59:10 PM	1894.985107	8:02:23 PM
1	8:03:58 PM	1814.487915	8:04:49 PM
130	8:19:03 PM	2015.191162	8:21:11 PM
UL002	8:08:37 PM	2005.675415	8:12:11 PM

Jan 10, 2017-B (N604MD, SN8239)

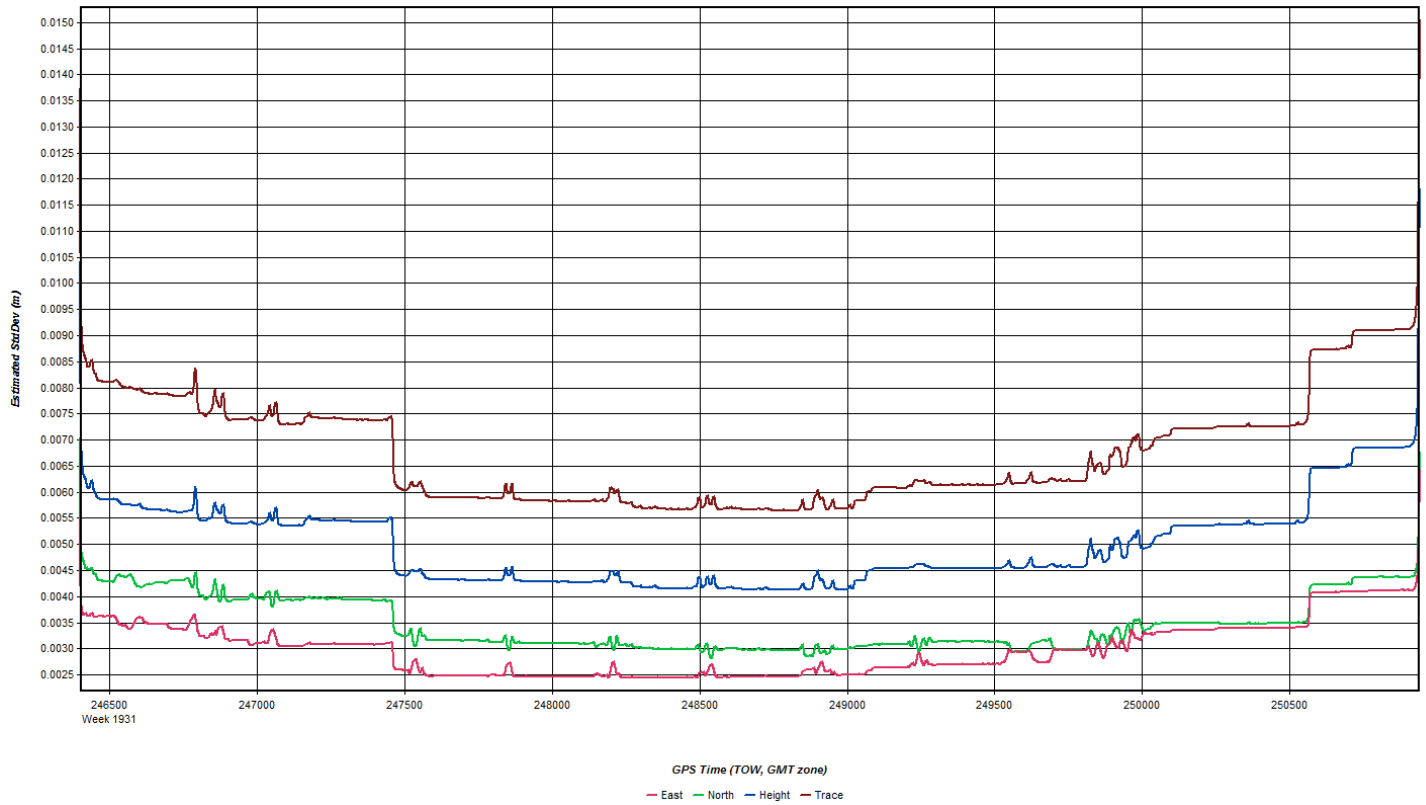
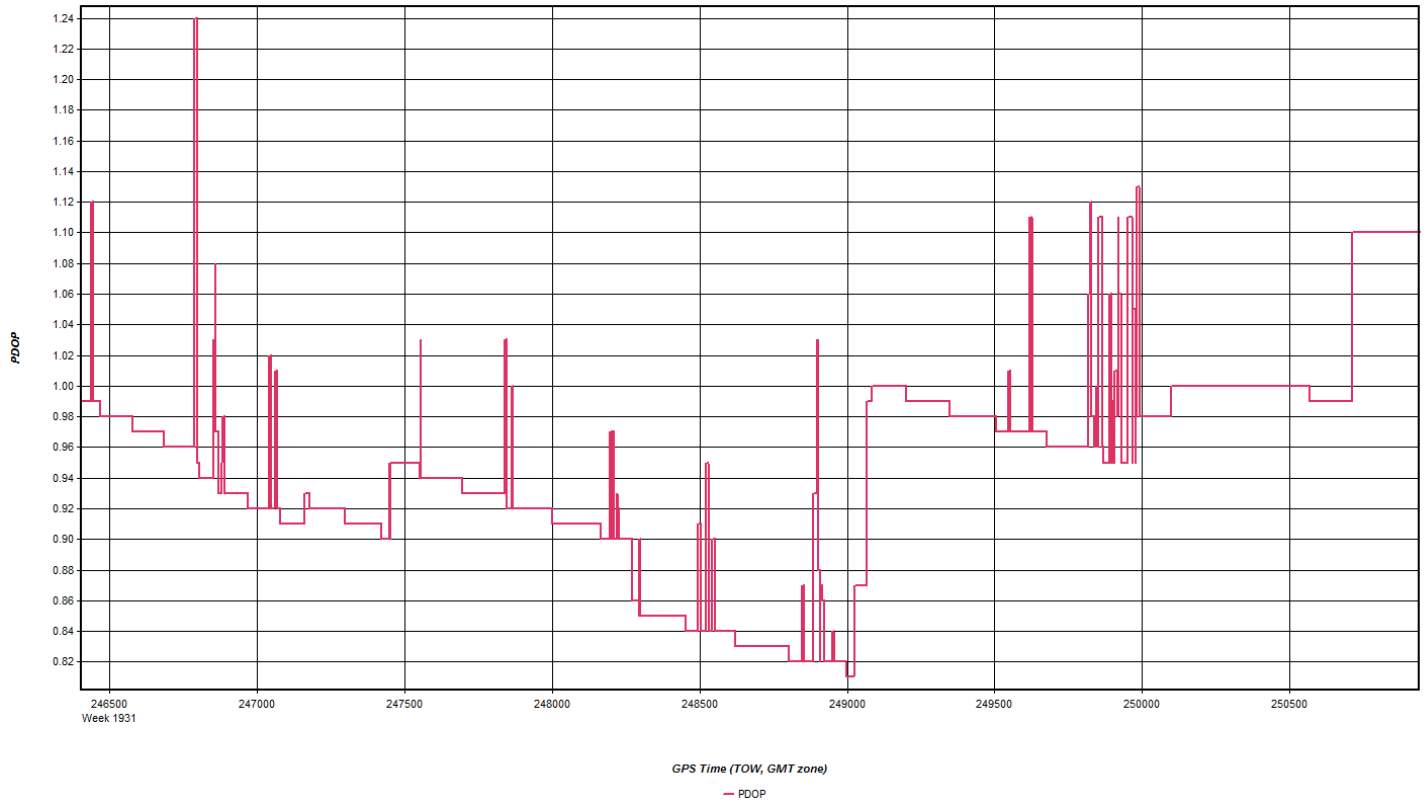


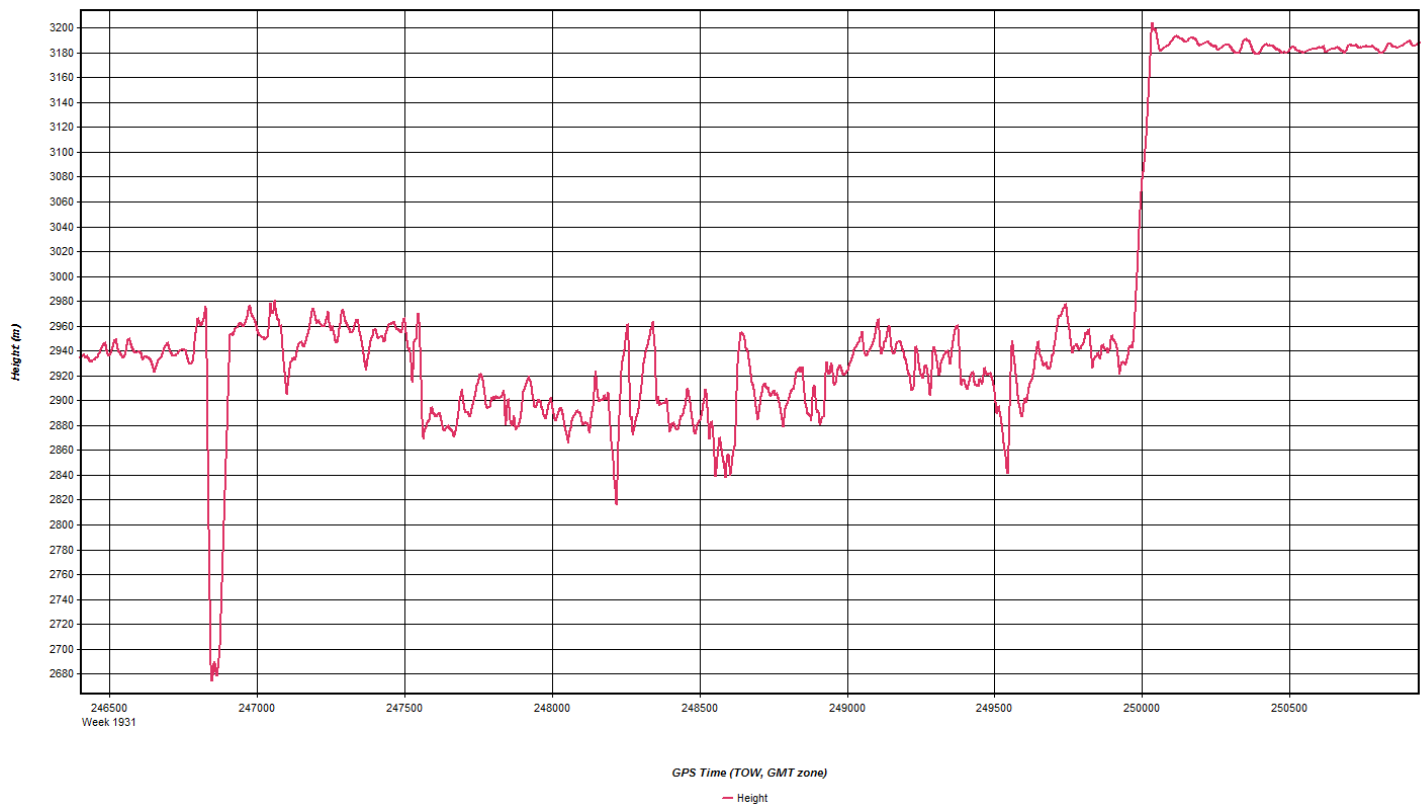


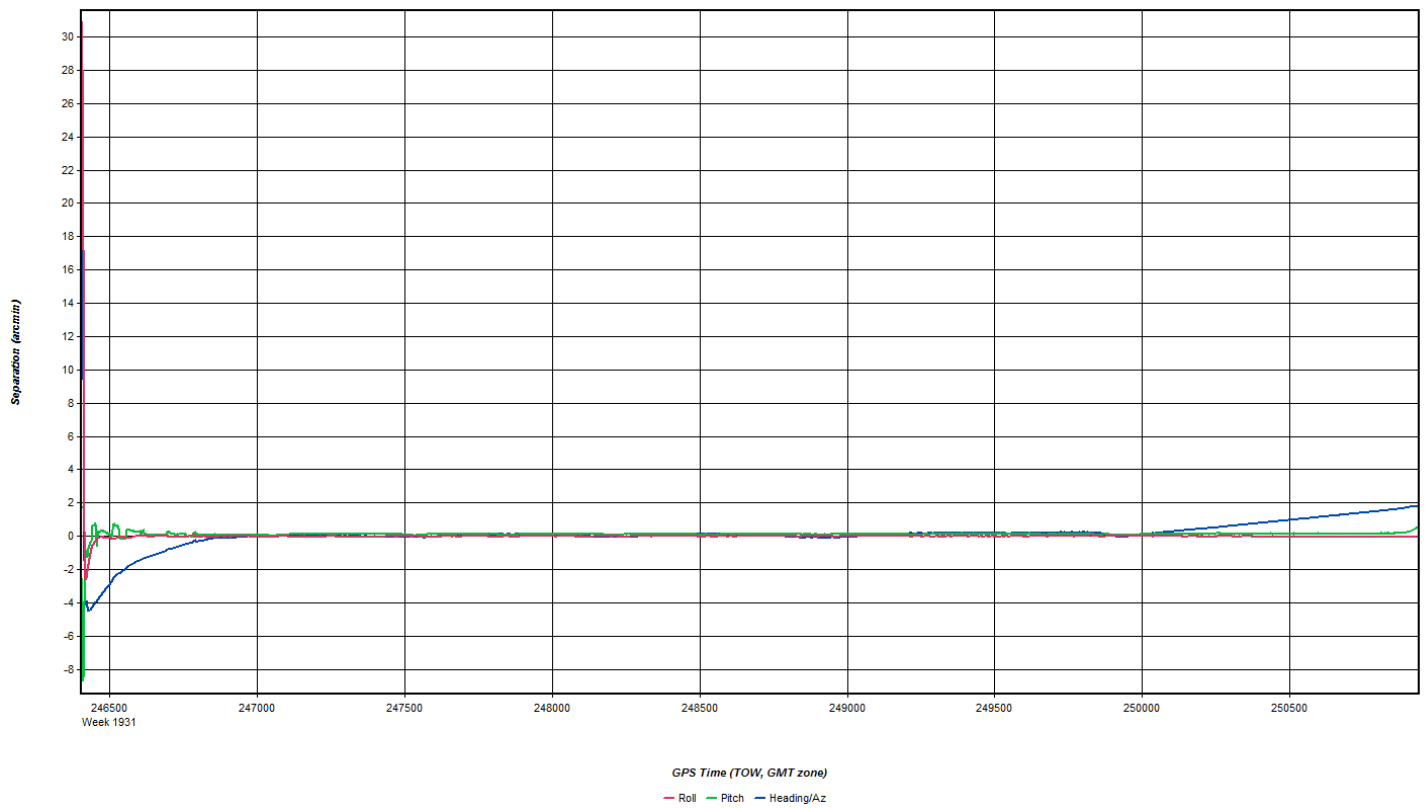
GPS Time (TOW, GMT zone)
— East — North — Up

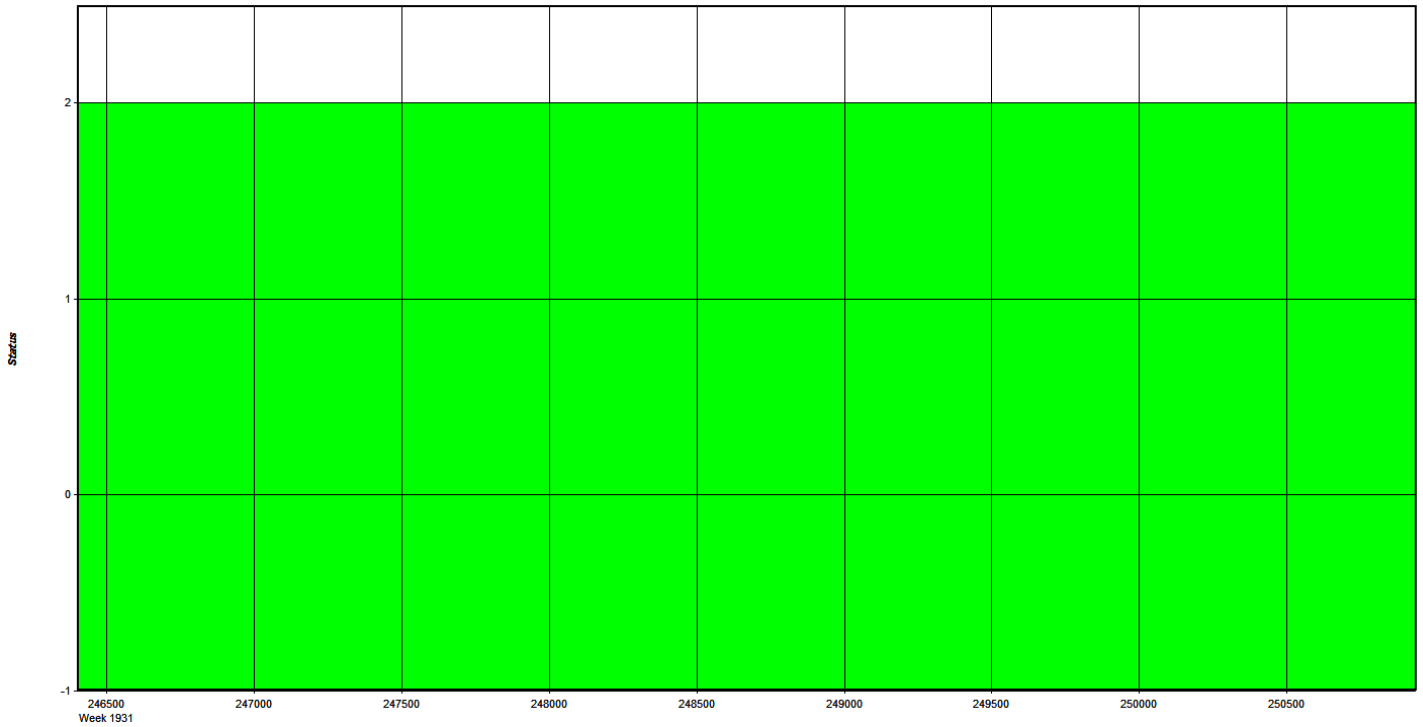


GPS Time (TOW, GMT zone)
— Heading/Azimuth — GPS-COG









GPS Time (TOW, GMT zone)
 - Float - Forward Fixed - Reverse Fixed - Fixed (2 or more)

Coordinate/Antenna Settings

Master Remote

Base Station
 1: UTAH16_35 Name: UTAH16_35 Disabled
 File: E:\Proc\29083_UTAH\From_Lara_Heitmeyer_1-26-17\Survey_Da

Coordinates
 Latitude: North 37 07 53.89287 Compute from PPP
 Longitude: West 113 29 06.63661 Enter Grid Values
 Ellipsoidal height: 838.881 m Enter MSL Height
 Datum: WGS84 Datum Options
 Select From Favorites Add To Favorites Use Average Position

Antenna Height
 From station file: TRM57971.00 View STA File
 Antenna profile: TRM57971.00 Info
 Measured height: 1.800 m
 ARP to L1 offset: 0.067 m
 Applied height: 1.867 m
 Measured to:
 ARP
 L1 Phase Centre
 Compute From Slant

OK Cancel

Coordinate/Antenna Settings ? X

Master Remote

Base Station
 2: UTAH16_36 Name: UTAH16_36 Disabled
 File: E:\Proc\29083_UTAH\From_Lara_Heitmeyer_1-26-17\Survey_Da

Coordinates
 Latitude: North 37 06 30.25986 Compute from PPP
 Longitude: West 113 29 48.66465 Enter Grid Values
 Ellipsoidal height: 783.396 m Enter MSL Height
 Datum: WGS84 Datum Options
 Select From Favorites Add To Favorites Use Average Position

Antenna Height
 From station file: TRM55971.00 View STA File
 Antenna profile: TRM55971.00 Info
 Measured height: 1.800 m
 ARP to L1 offset: 0.067 m
 Applied height: 1.867 m
 Measured to:
 ARP
 L1 Phase Centre
 Compute From Slant

OK Cancel

Flight Log

Date: 1/10/2017	Aircraft: N604MD	Sensor: 8239
Project: Utah 2016 LiDAR		Project #: R029083
Flight Mgmt File: FMSL_Utah_WACounty_SN8239		
Pilot: Bob Cale		Sensor Operator: Charlie Oncea

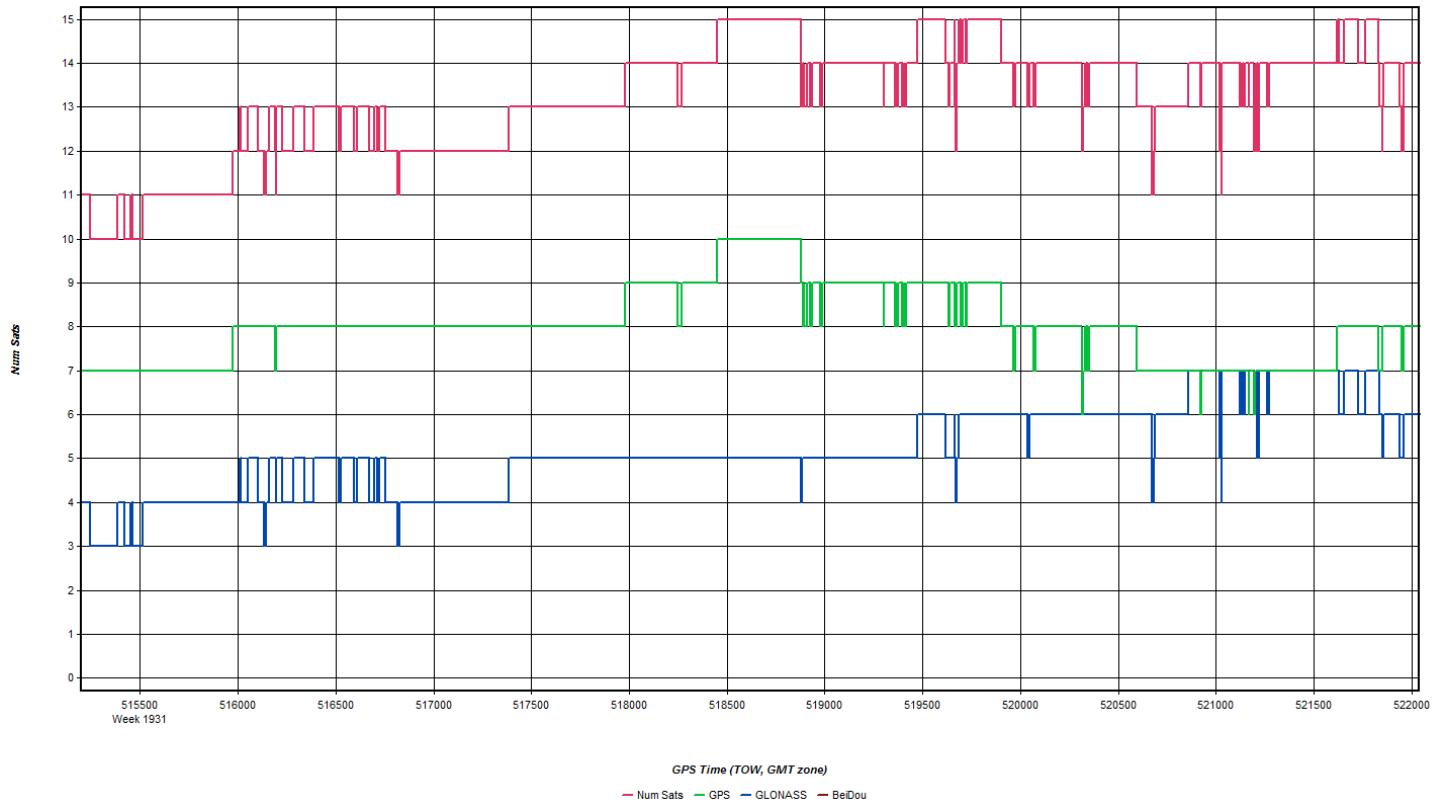
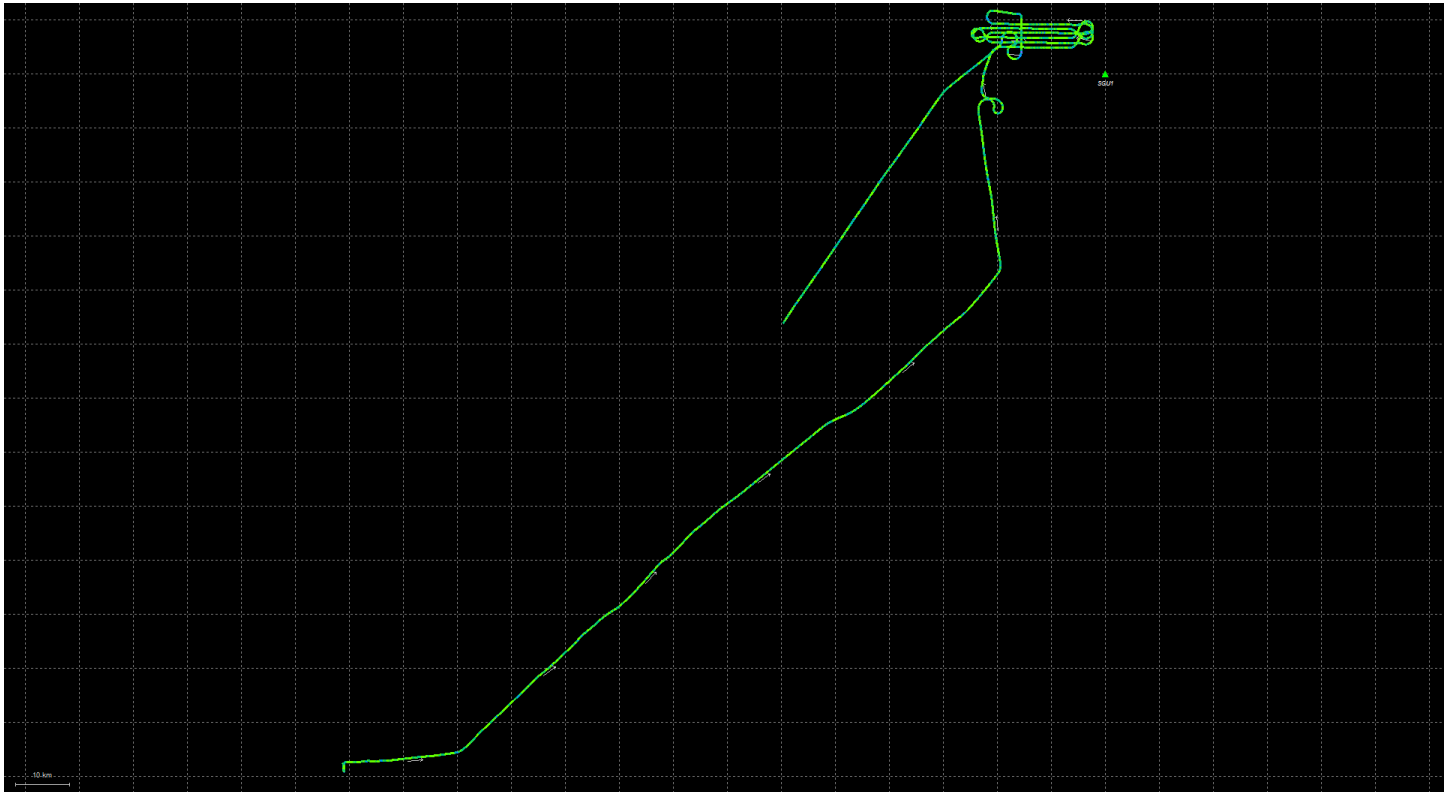
	Flight 1	Flight 2	Flight 3	Flight 4
Wheels Up				
Wheels Down				
Begin Hobbs				
End Hobbs				
On-line Hobbs:		Mob Hobbs:		

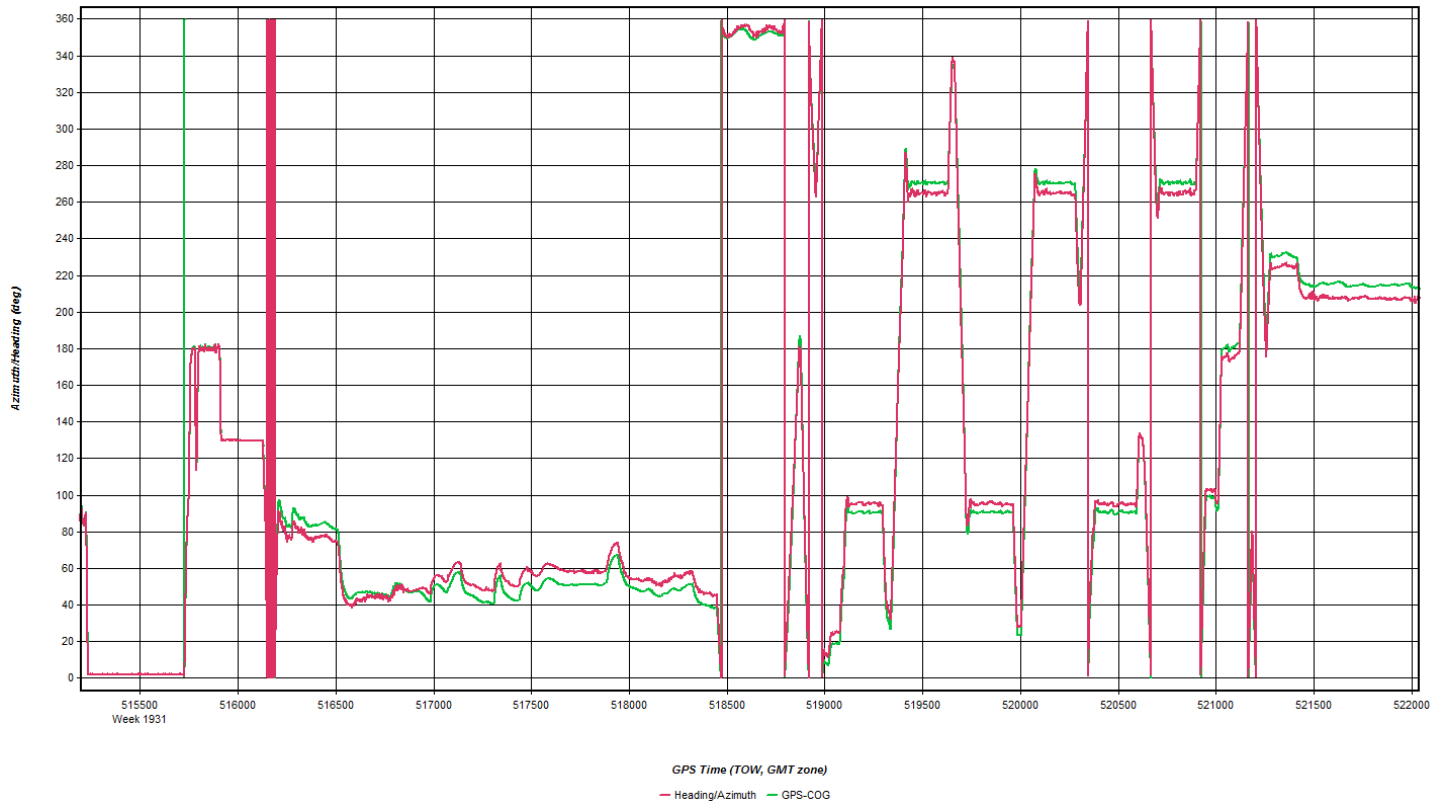
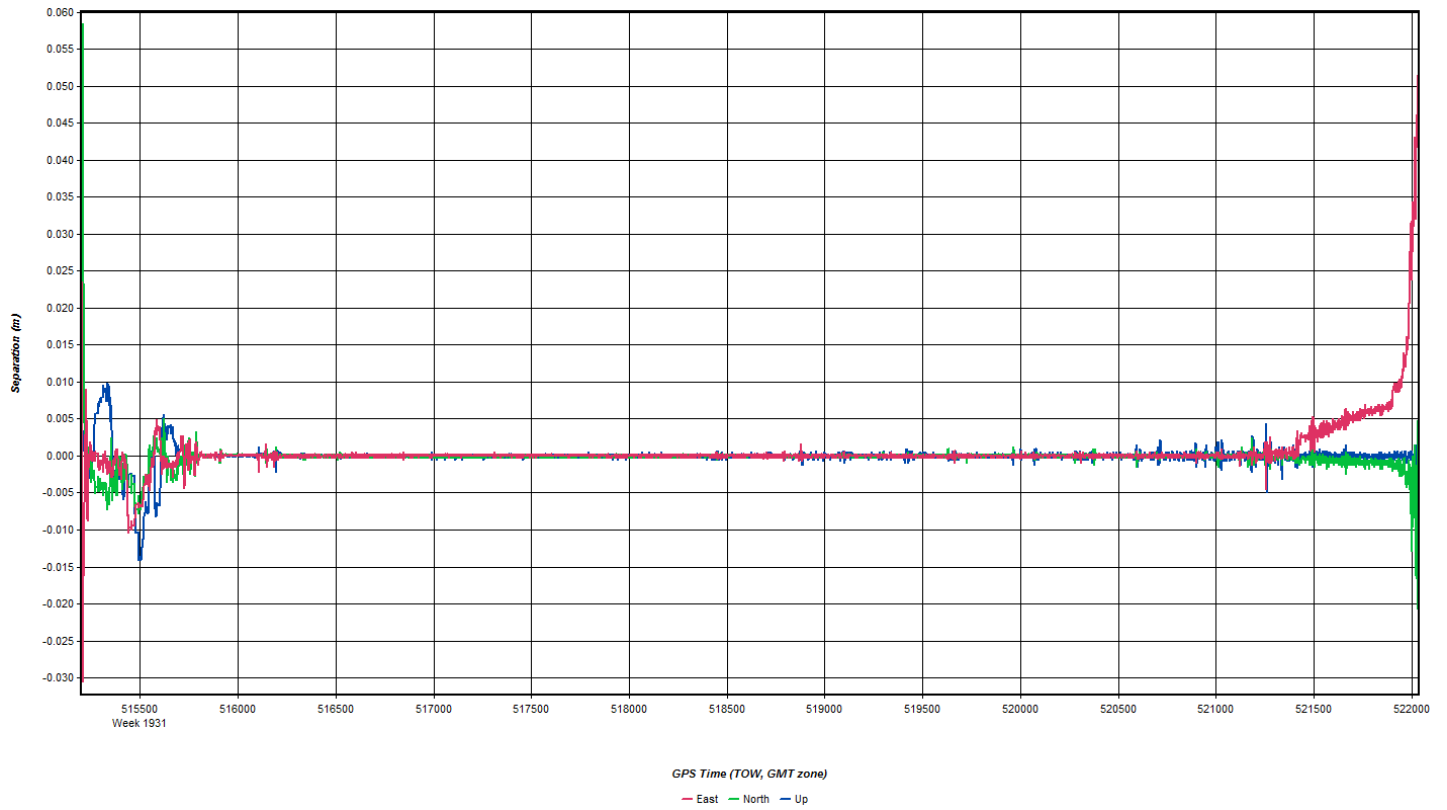
Notes

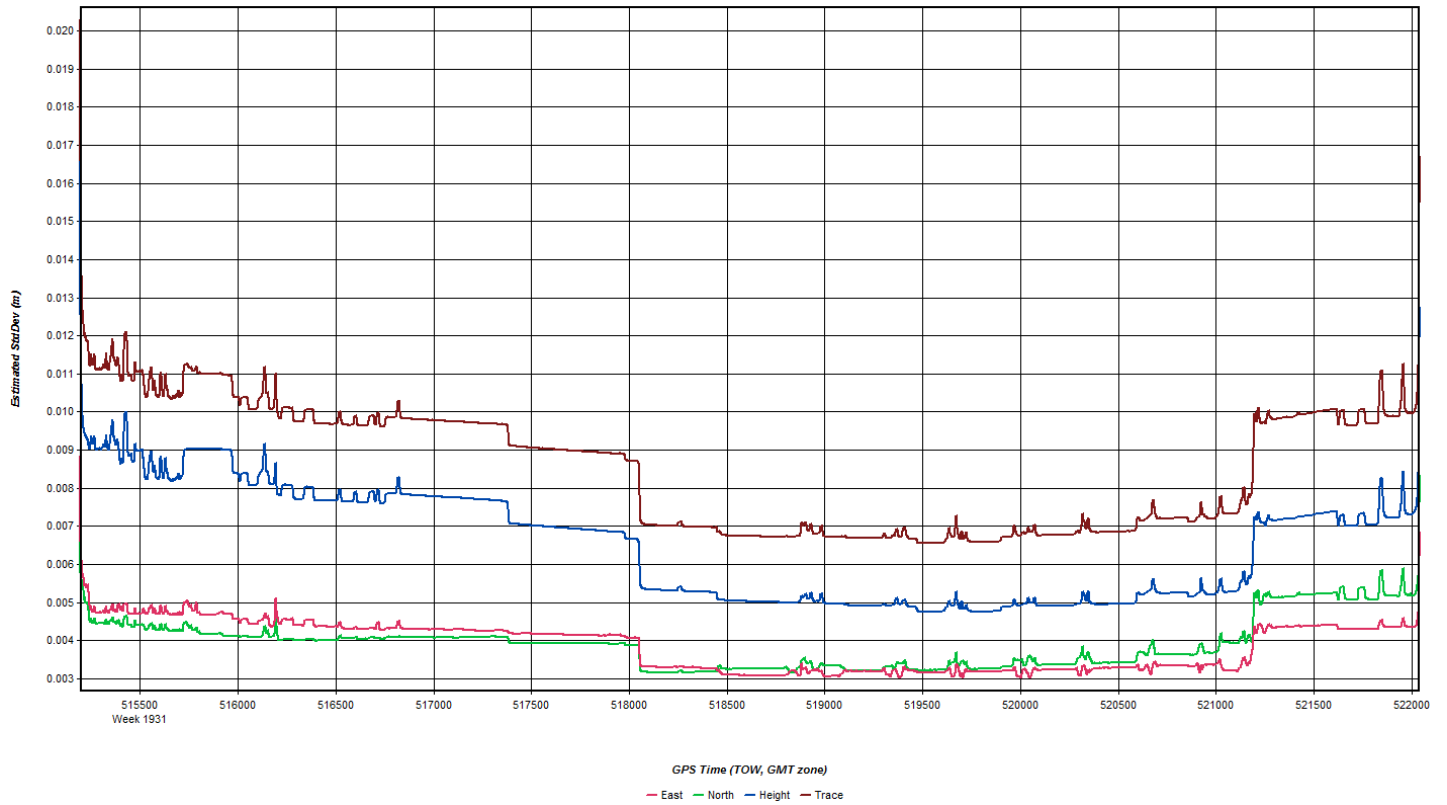
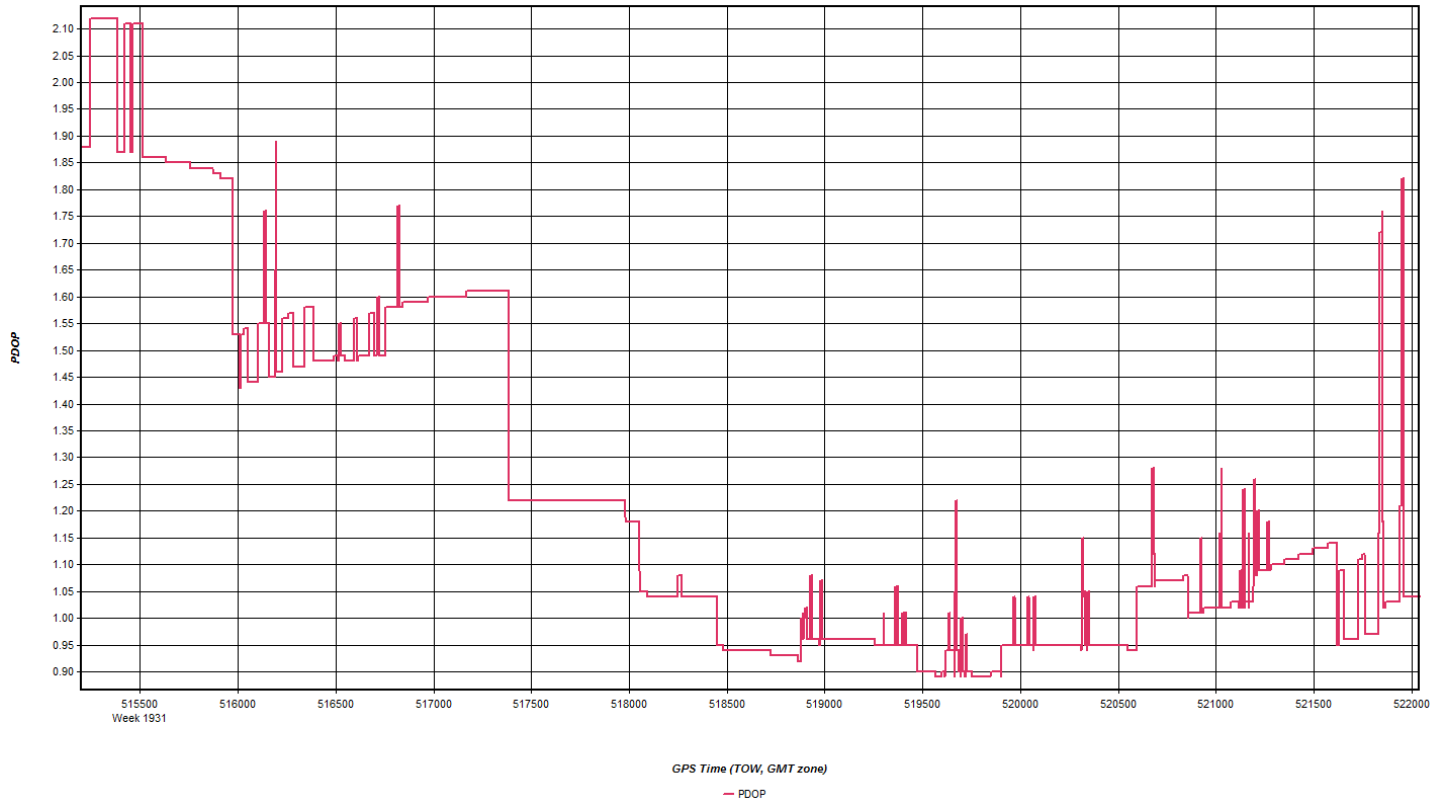
Flt Mgmt File: FMSL_Utah_WACounty_SN8239

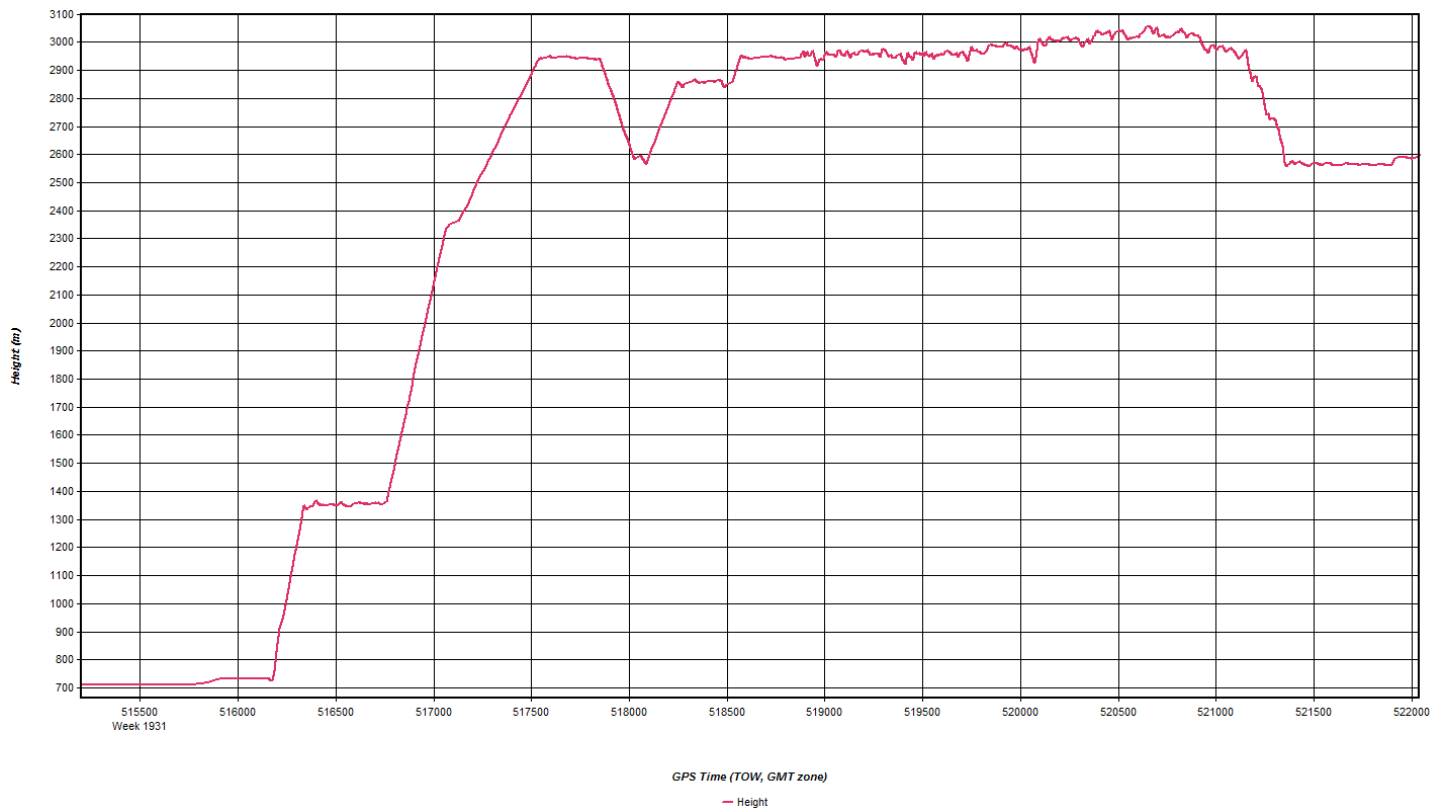
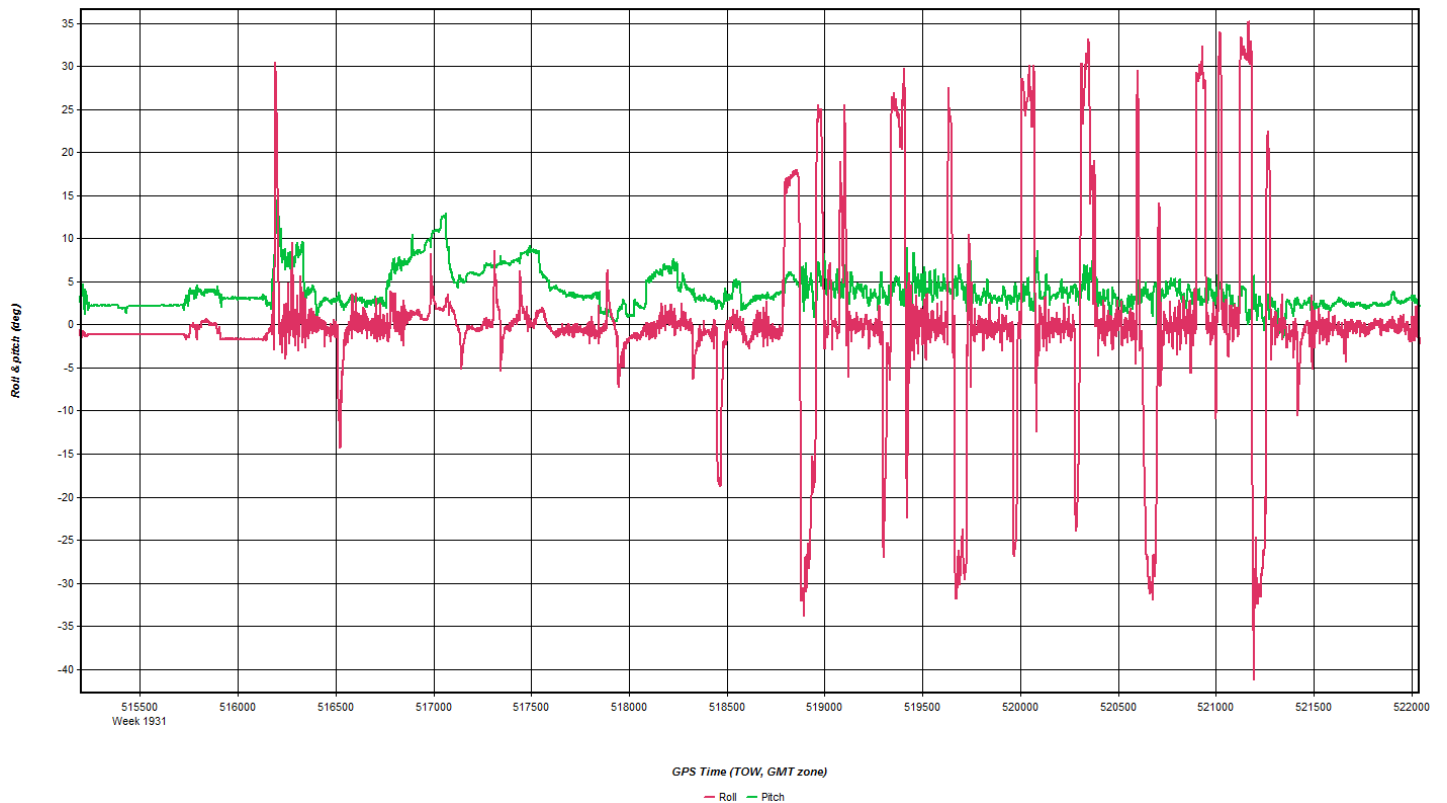
130	8:43:33 PM	1496.664673	8:41:18 PM
131	8:49:23 PM	2047.178955	8:46:14 PM
132	8:55:22 PM	1456.033813	8:51:45 PM
133	9:01:13 PM	2085.202637	8:57:29 PM
134	9:06:47 PM	1395.109375	9:03:00 PM
134	9:13:10 PM	2079.142334	9:09:29 PM
135	9:18:18 PM	1395.893311	9:14:34 PM
UL003	9:23:16 PM	1937.08374	9:22:14 PM

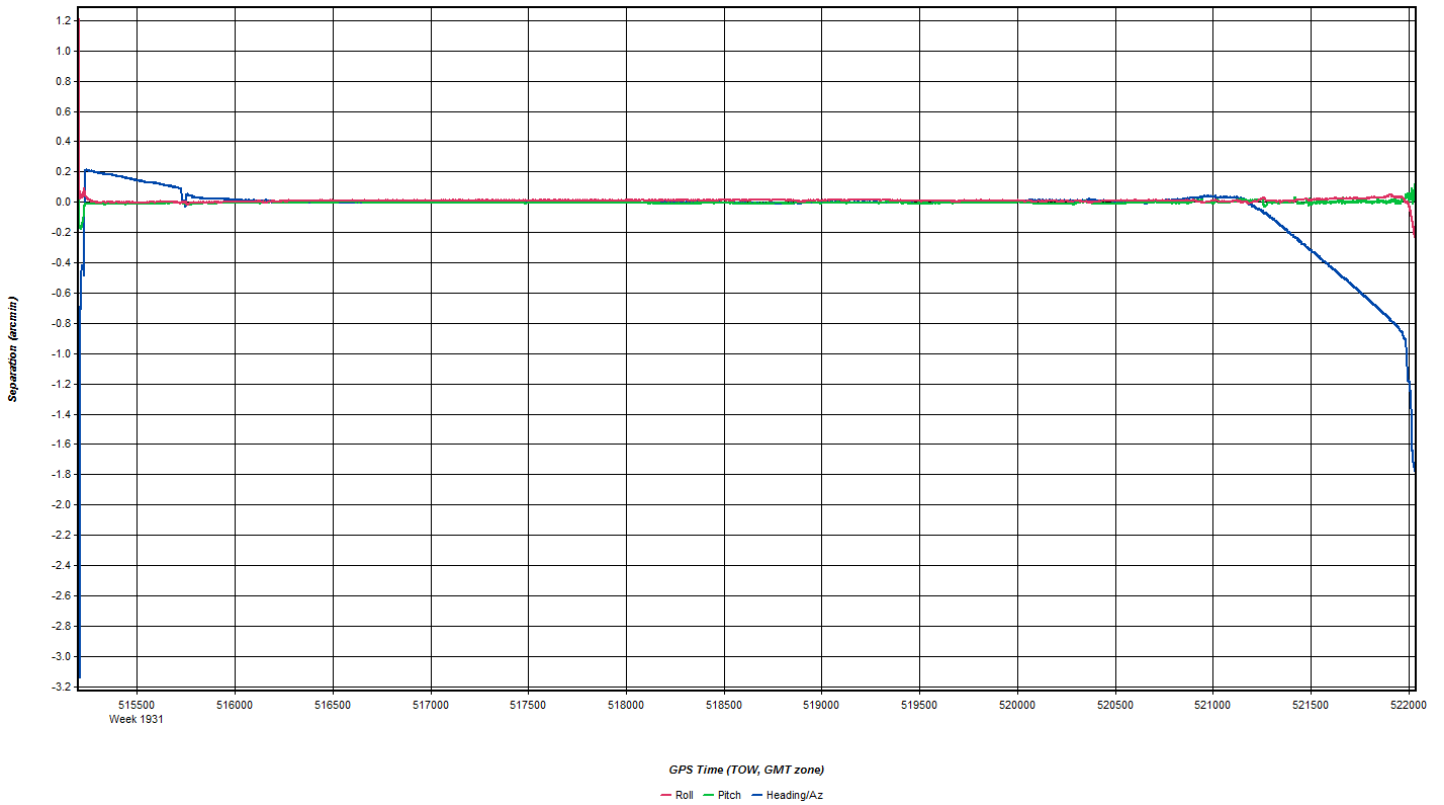
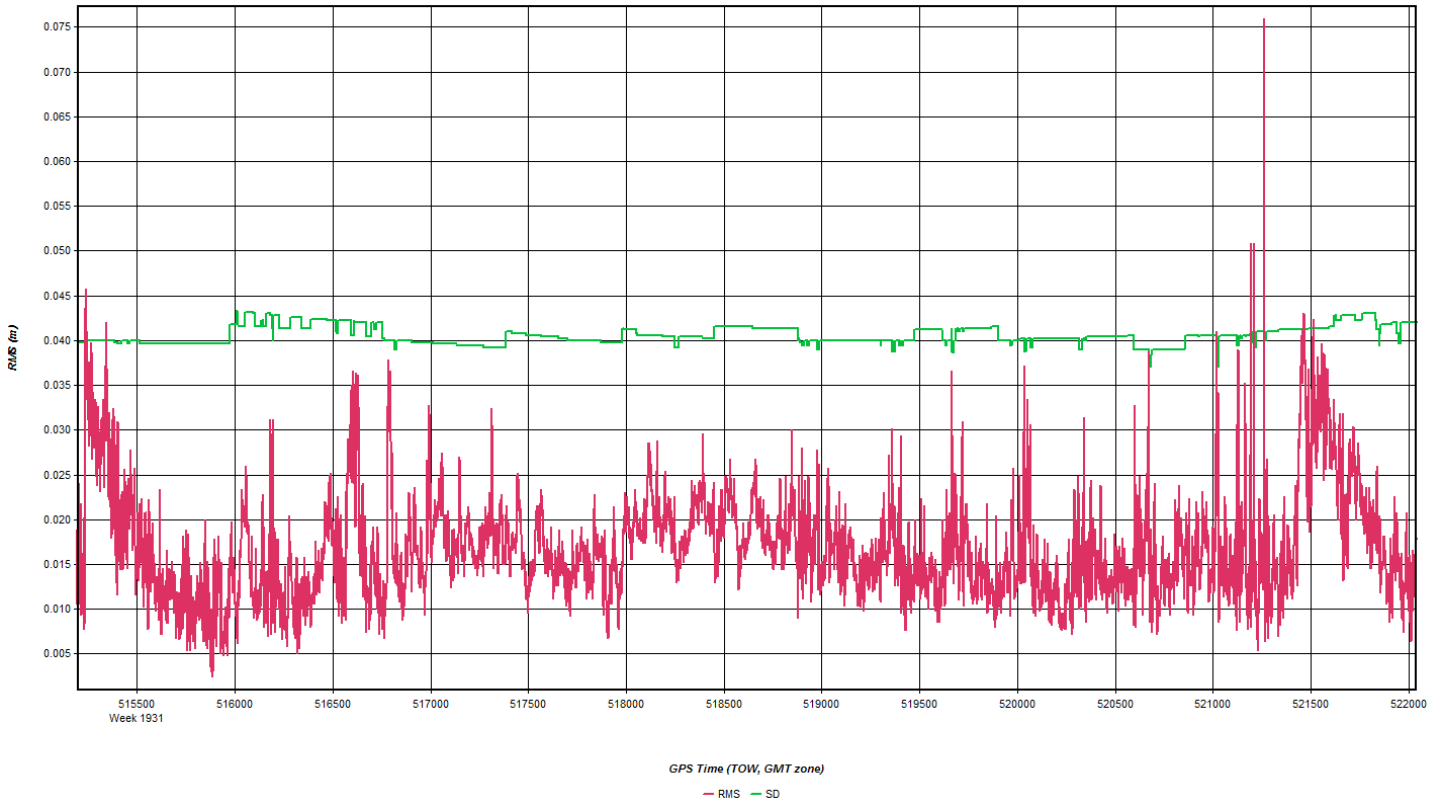
Jan 13, 2017-A (N604MD, SN8239)

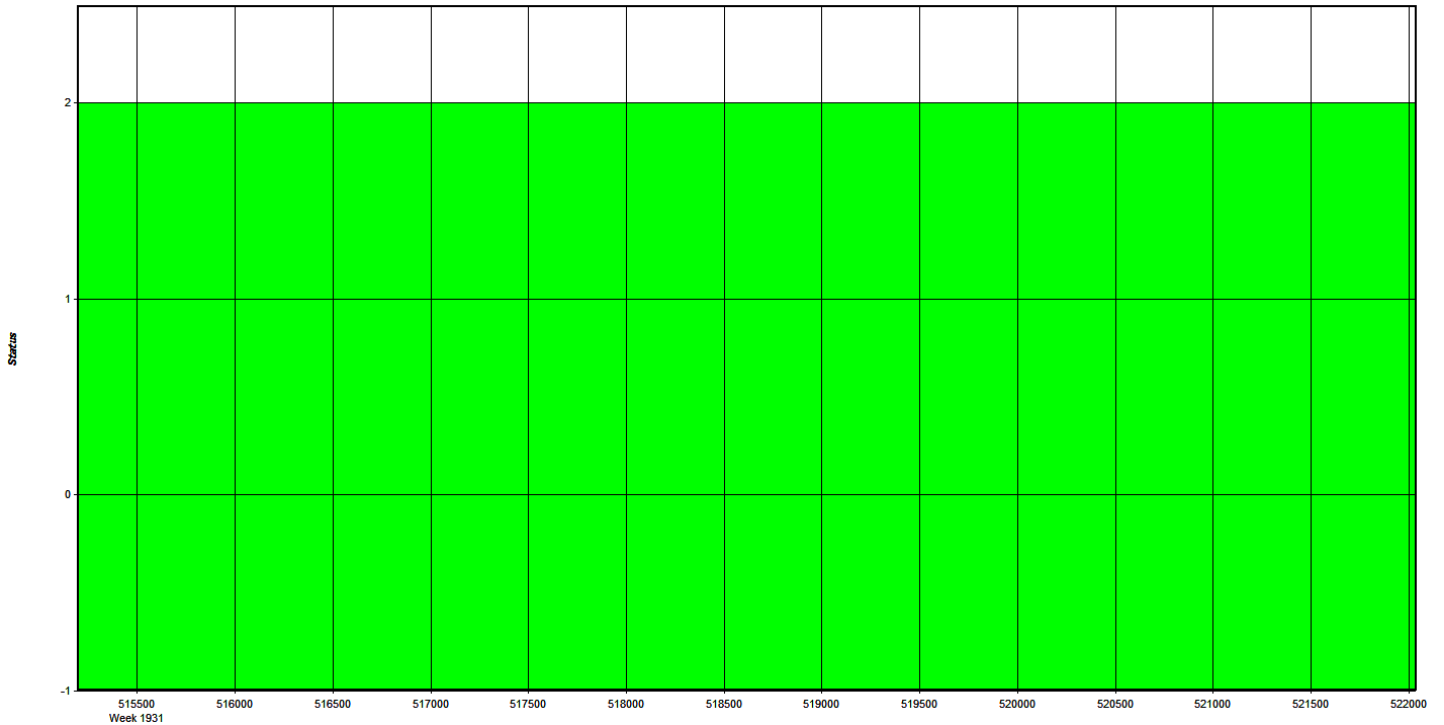












GPS Time (TOW, GMT zone)
 - Float - Forward Fixed - Reverse Fixed - Fixed (2 or more)

Coordinate/Antenna Settings

Master Remote

Base Station
 1: SGU1 Name: SGU1 Disabled
 File: E:\Proc\29083_UTAH\From_Lara_Heitmeyer_1-26-17\Survey_Da

Coordinates
 Latitude: North 37 06 47.48170 Compute from PPP
 Longitude: West 113 34 13.02341 Enter Grid Values
 Ellipsoidal height: 895.579 m Enter MSL Height
 Datum: WGS84 Datum Options
 Select From Favorites Add To Favorites Use Average Position

Antenna Height
 From station file: ASH701945E_M, SNOW View STA File
 Antenna profile: ASH701945E_M, SNOW Info
 Measured height: 0.000 m
 ARP to L1 offset: 0.090 m
 Applied height: 0.090 m
 Measured to:
 ARP
 L1 Phase Centre
 Compute From Slant

OK Cancel

Flight Log

Date: 1/13/2017	Aircraft: N604MD	Sensor: 8239
Project: Utah 2016 LiDAR		Project #: R029083
Flight Mgmt File: FMSL_Utah_WACounty_SN8239		
Pilot: Eric Petersen		Sensor Operator: Scott White

	Flight 1	Flight 2	Flight 3	Flight 4
Wheels Up	3:21:00 PM			
Wheels Down	5:30:00 PM			
Begin Hobbs	11980.1			
End Hobbs	11982.2			
On-line Hobbs: 0.9		Mob Hobbs: 1.2		

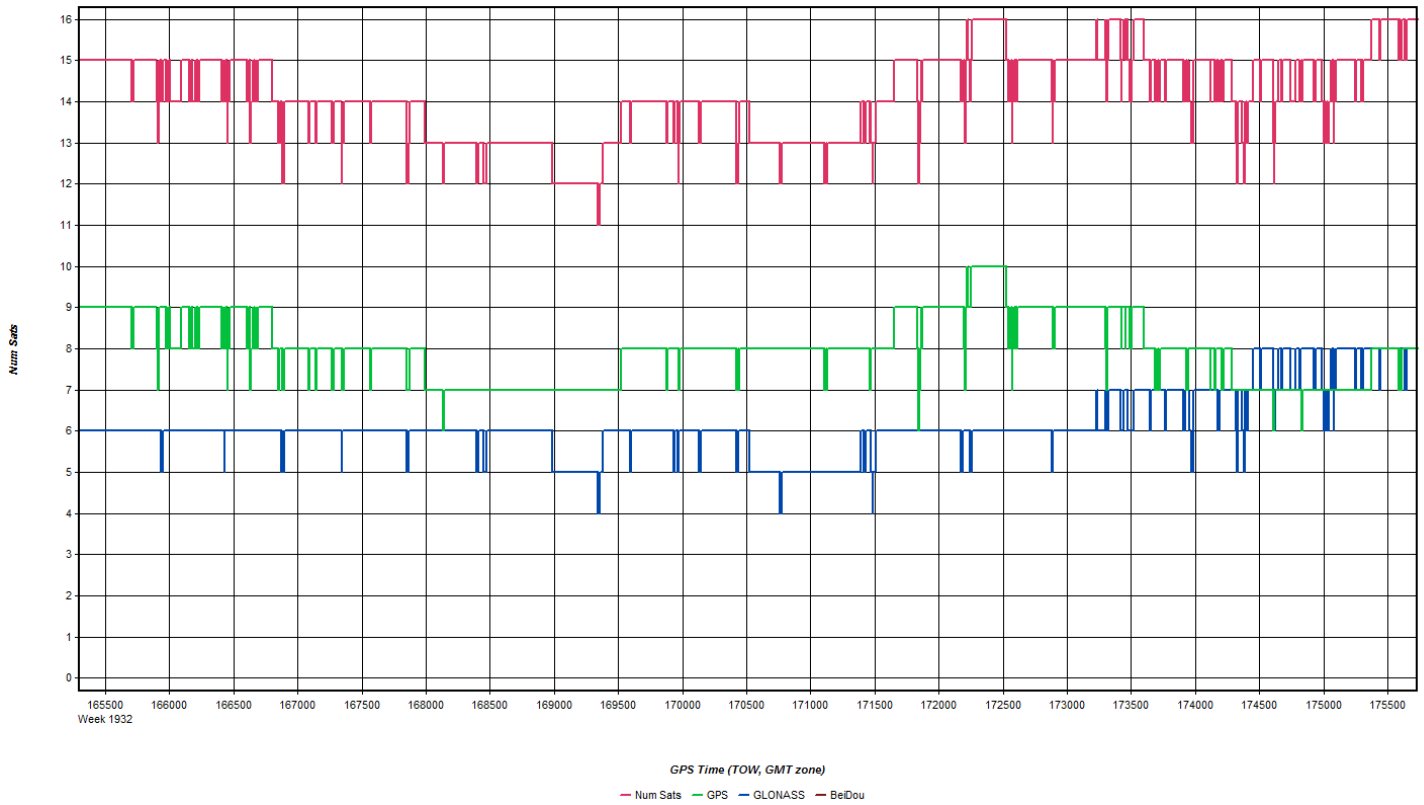
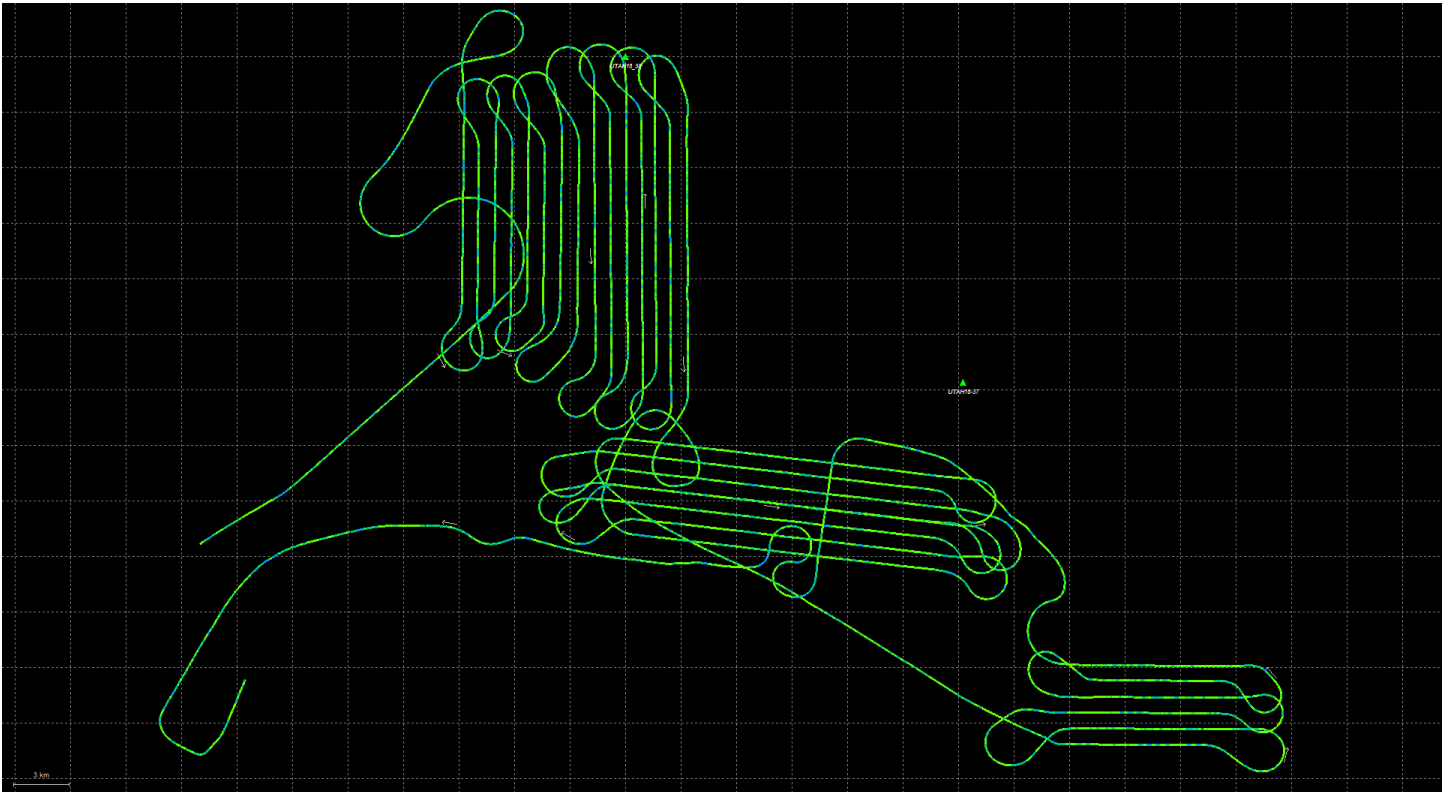
Notes

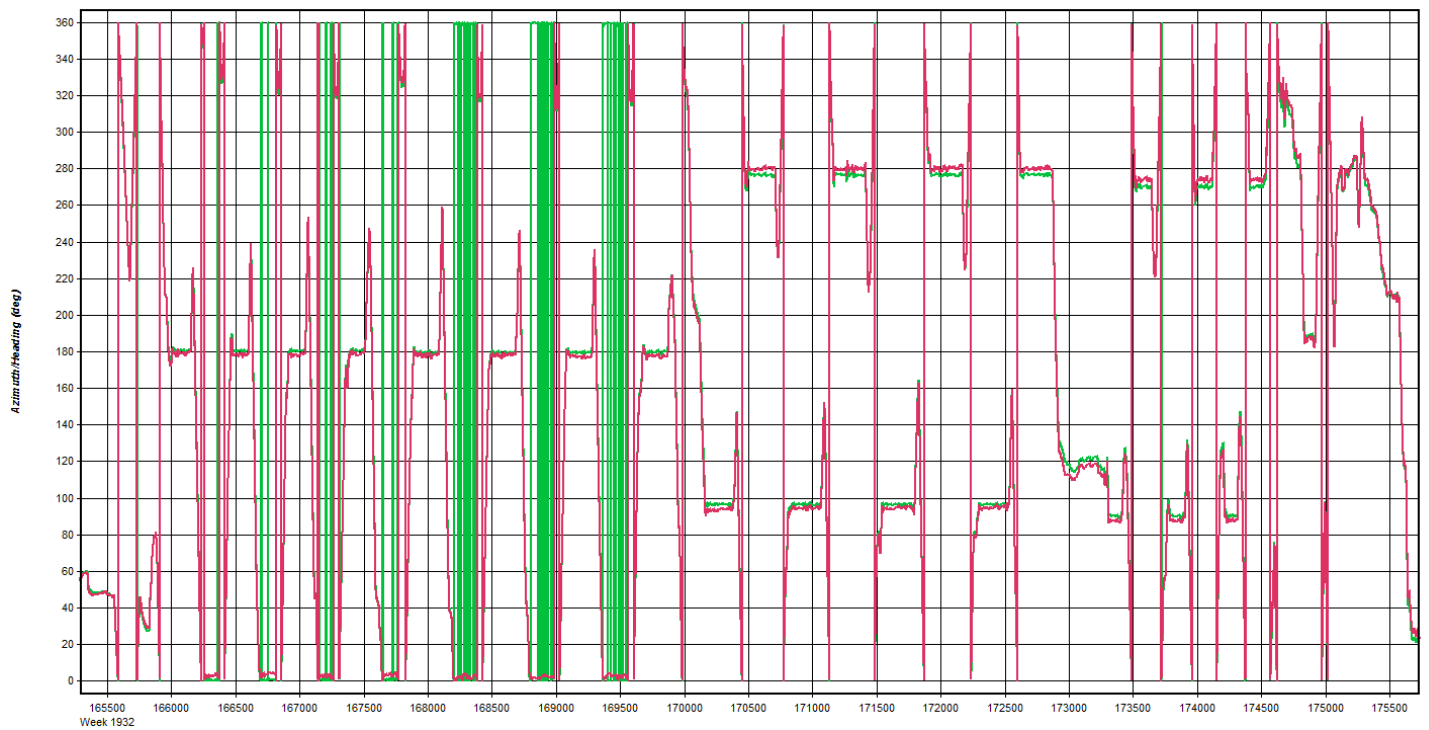
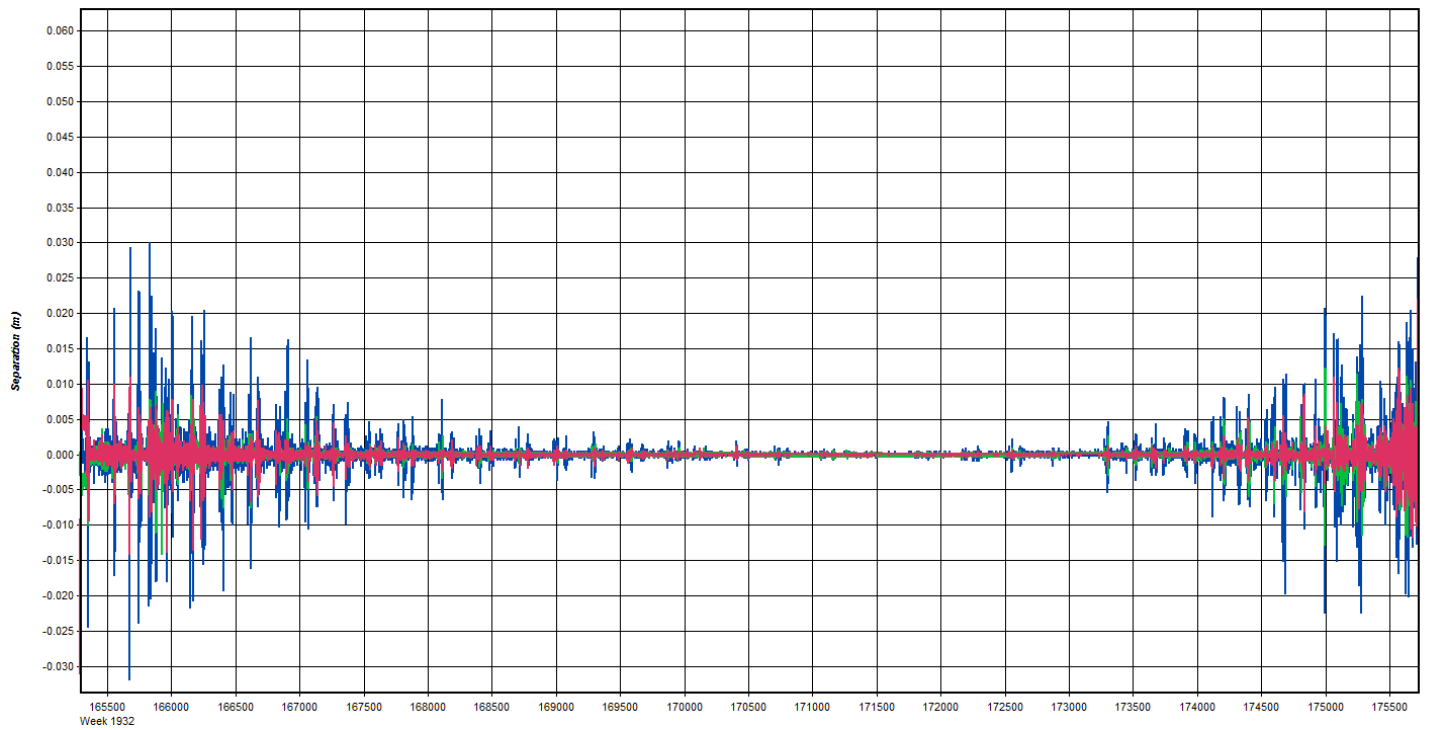
Monitored weather and waited for our opportunity to come in the afternoon. Saw some clouds clearing so we took a chance and was able to get a small block in. We wanted to get some lines in EG's base range but they were clouded out. Fortunately there were some COR's type stations that we could fly off of according to SV and was able to get a small block in thus avoiding the clouds. Heading back to KSHH in order to be in an area where LR can swap out sensors from 604MD to 208NR. After backing up the data, CloudPro wouldn't work properly, it was clipping the edges off. Will have to try to troubleshoot more tomorrow.

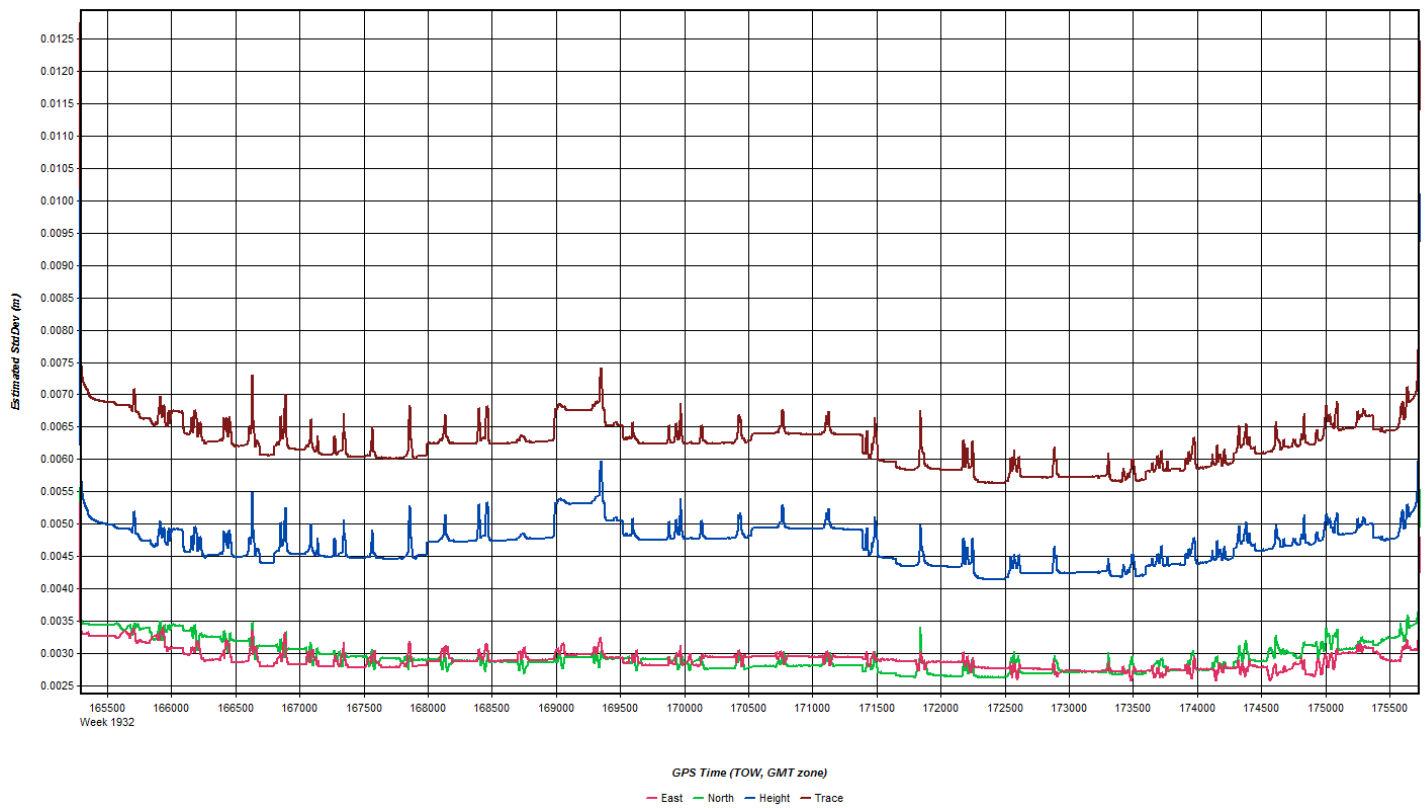
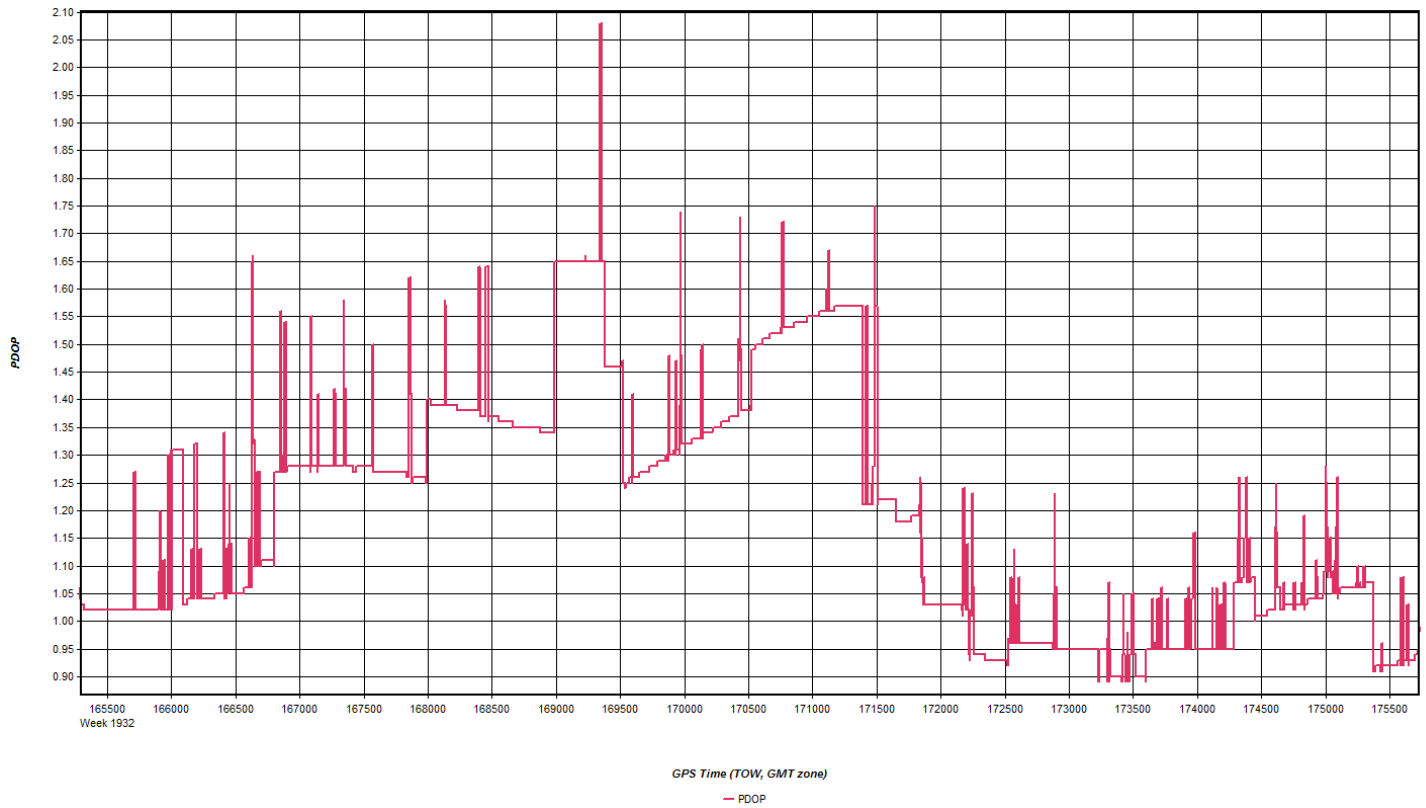
Flt Mgmt File: FMSL_Utah_WACounty_SN8239

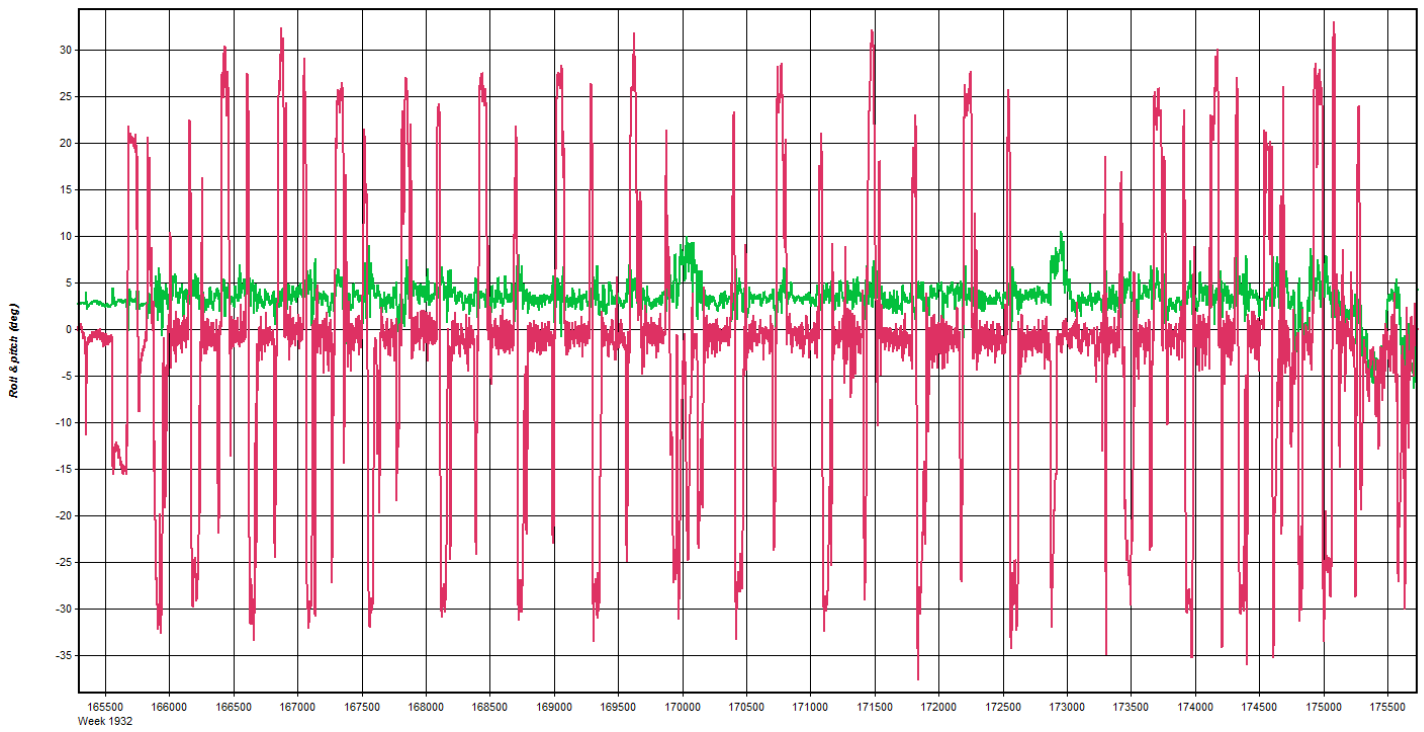
144	12:12:05 AM	1893.503906	12:14:40 AM
143	12:17:06 AM	2090.370605	12:20:11 AM
142	12:22:35 AM	1893.415161	12:25:47 AM
141	12:28:06 AM	2095.03125	12:31:03 AM
140	12:33:14 AM	1996.337769	12:36:18 AM
139	12:38:26 AM	1947.512695	12:41:22 AM
UL002	12:43:48 AM	1991.856812	12:45:06 AM

Jan 16, 2017-A (N208NR, SN8239)

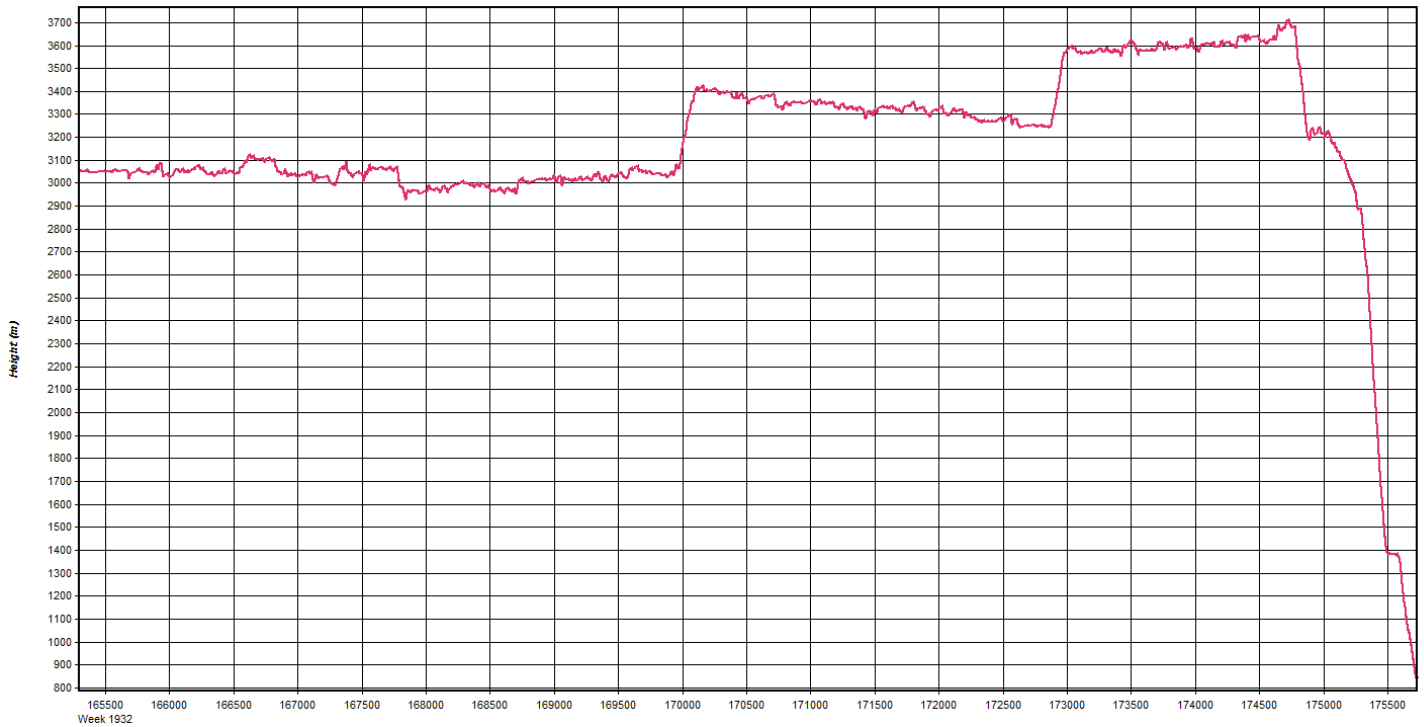




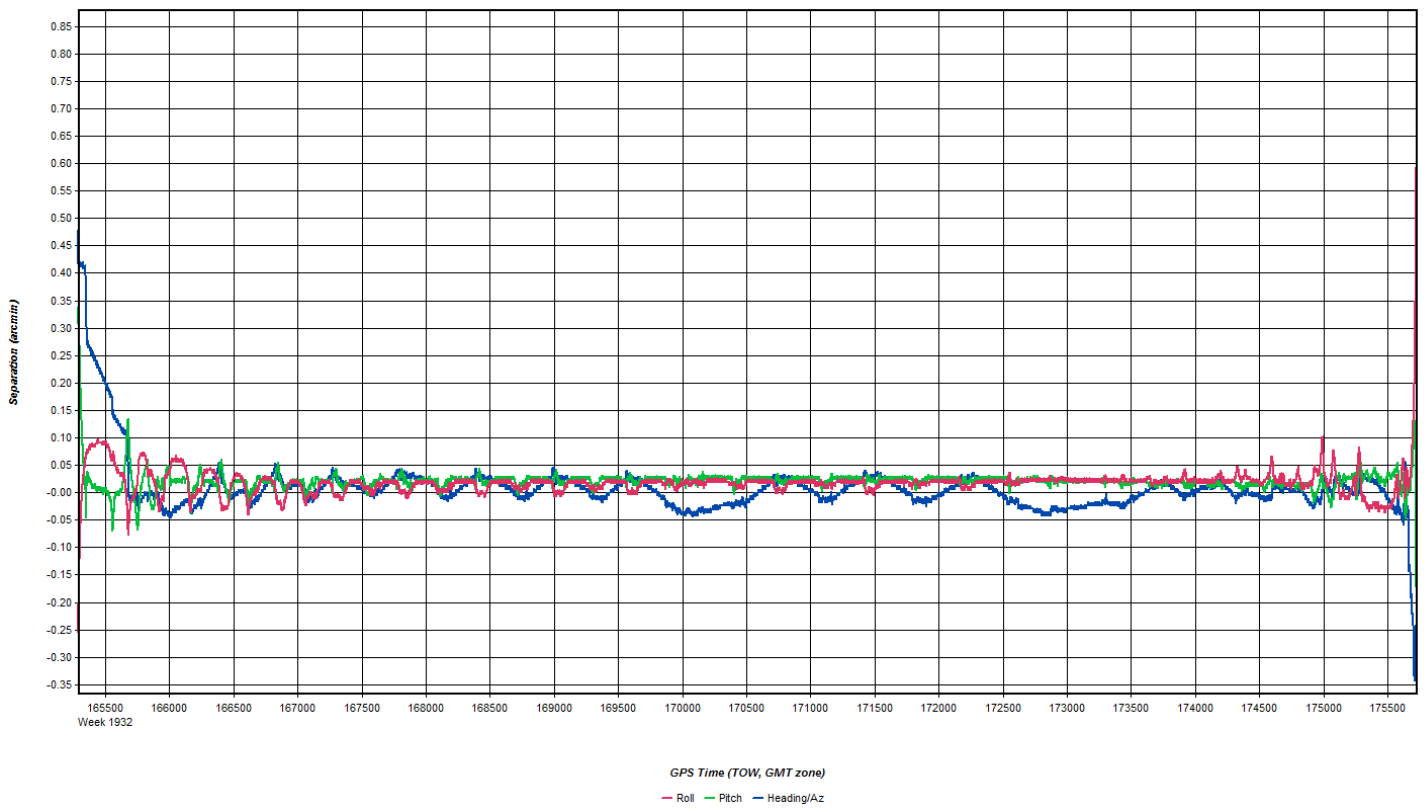
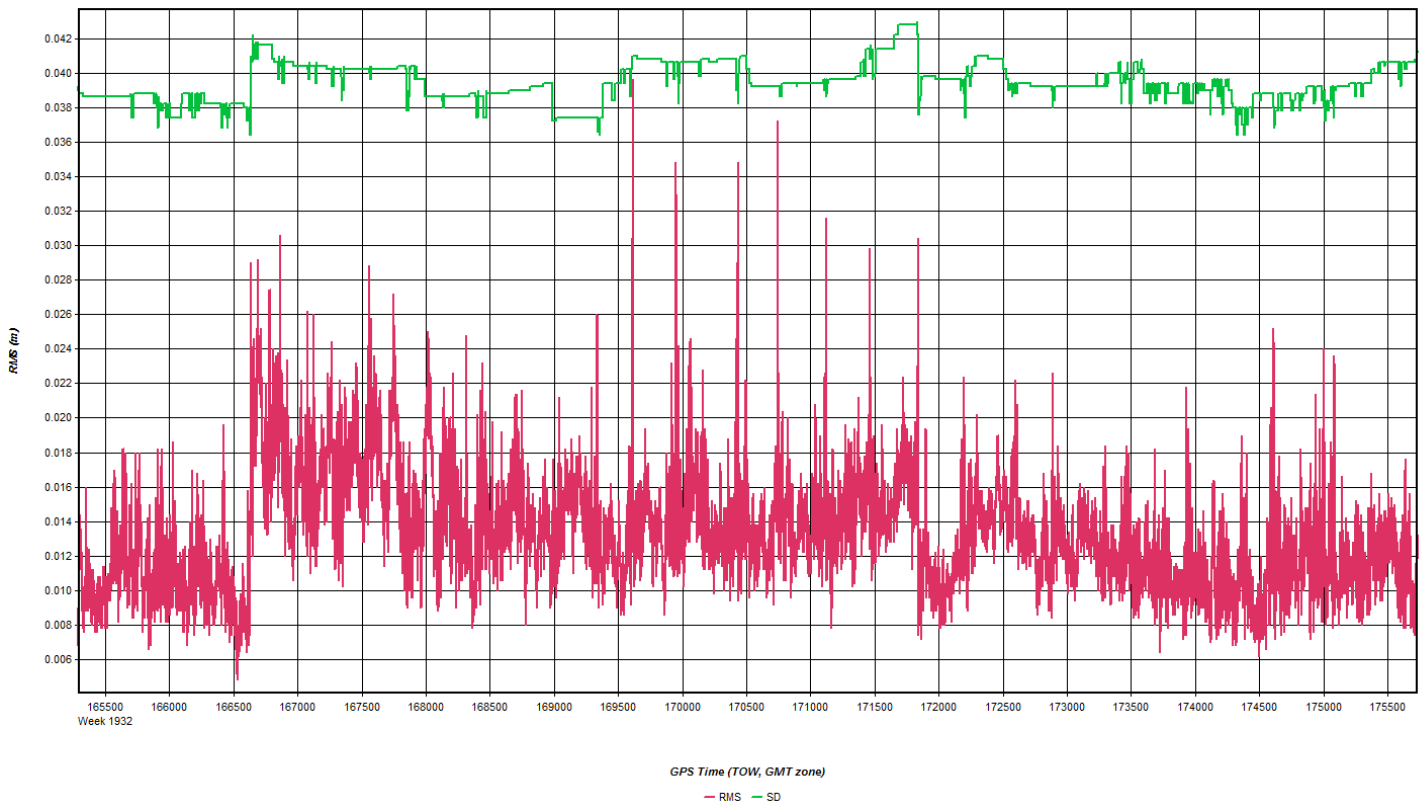


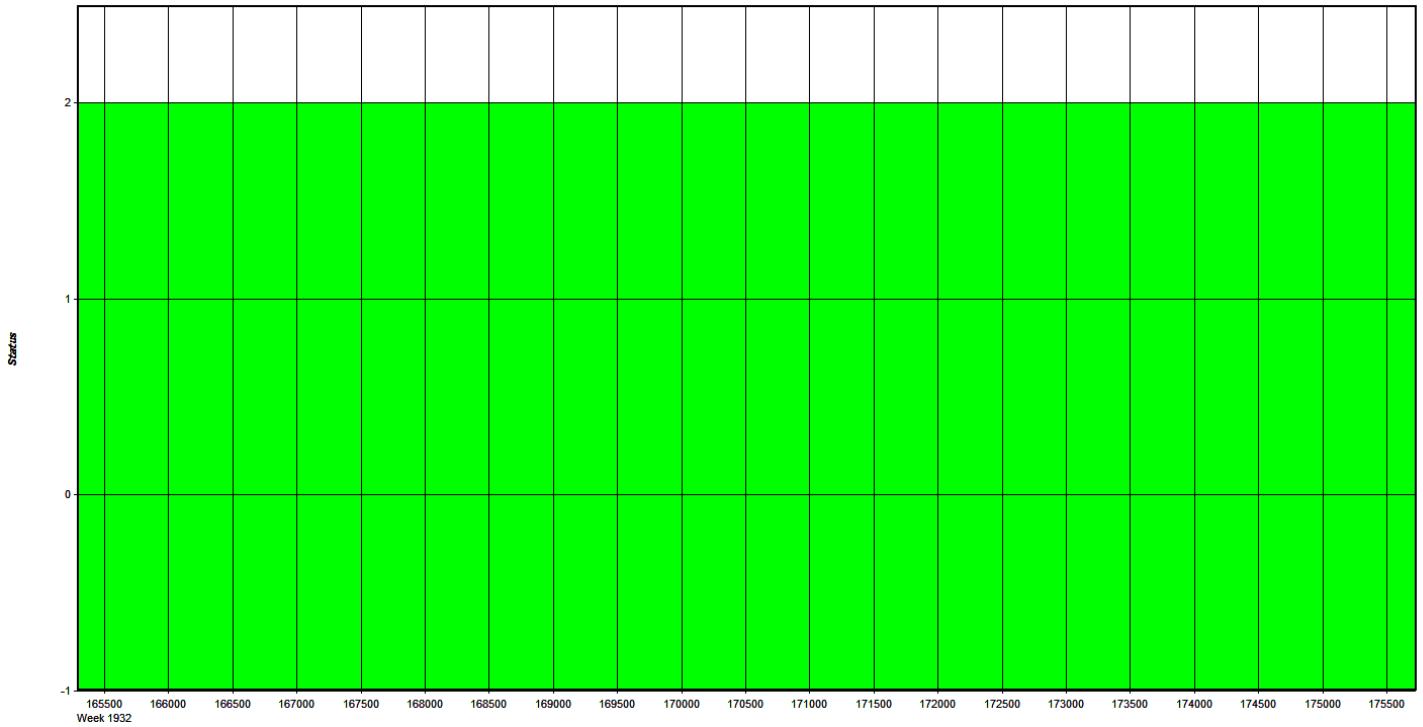


GPS Time (TOW, GMT zone)
— Roll — Pitch



GPS Time (TOW, GMT zone)
— Height





GPS Time (TOW, GMT zone)
 - Float - Forward Fixed - Reverse Fixed - Fixed (2 or more)

Coordinate/Antenna Settings

Master Remote

Base Station
 2: UTAH16-37 Name: UTAH16-37 Disabled
 File: E:\Proc\29083_UTAH\From_Lara_Heitmeyer_1-26-17\Survey_Da

Coordinates
 Latitude: North 37 10 13.47031 Compute from PPP
 Longitude: West 113 04 55.66964 Enter Grid Values
 Ellipsoidal height: 1097.704 m Enter MSL Height
 Datum: WGS84 Datum Options
 Select From Favorites Add To Favorites Use Average Position

Antenna Height
 From station file: TRM55971.00 View STA File
 Antenna profile: TRM57971.00 Info
 Measured height: 1.800 m
 ARP to L1 offset: 0.067 m
 Applied height: 1.867 m
 Measured to:
 ARP
 L1 Phase Centre
 Compute From Slant

OK Cancel

Coordinate/Antenna Settings ? X

Master Remote

Base Station
1: UTAH16_38 Name: UTAH16_38 Disabled
File: E:\Proc\29083_UTAH\From_Lara_Heitmeyer_1-26-17\Survey_Da

Coordinates
Latitude: North 37 19 35.50688 Compute from PPP
Longitude: West 113 17 08.78469 Enter Grid Values
Ellipsoidal height: 1236.991 m Enter MSL Height
Datum: WGS84 Datum Options
Select From Favorites Add To Favorites Use Average Position

Antenna Height
From station file: TRM55971.00 View STA File
Antenna profile: TRM57971.00 Info
Measured height: 1.500 m
ARP to L1 offset: 0.067 m
Applied height: 1.567 m
Measured to:
 ARP
 L1 Phase Centre
Compute From Slant

OK Cancel

Flight Log

Date: 1/16/2017	Aircraft: N604MD	Sensor: 8239
Project: Utah 2016 LiDAR		Project #: R029083
Flight Mgmt File: FMSL_Utah_WACounty_SN8239		
Pilot: Eric Petersen		Sensor Operator: Scott White

	Flight 1	Flight 2	Flight 3	Flight 4
Wheels Up	1:07:00 PM			
Wheels Down	5:49:00 PM			
Begin Hobbs	4471.2			
End Hobbs	4474.9			
On-line Hobbs: 2.7		Mob Hobbs: 1		

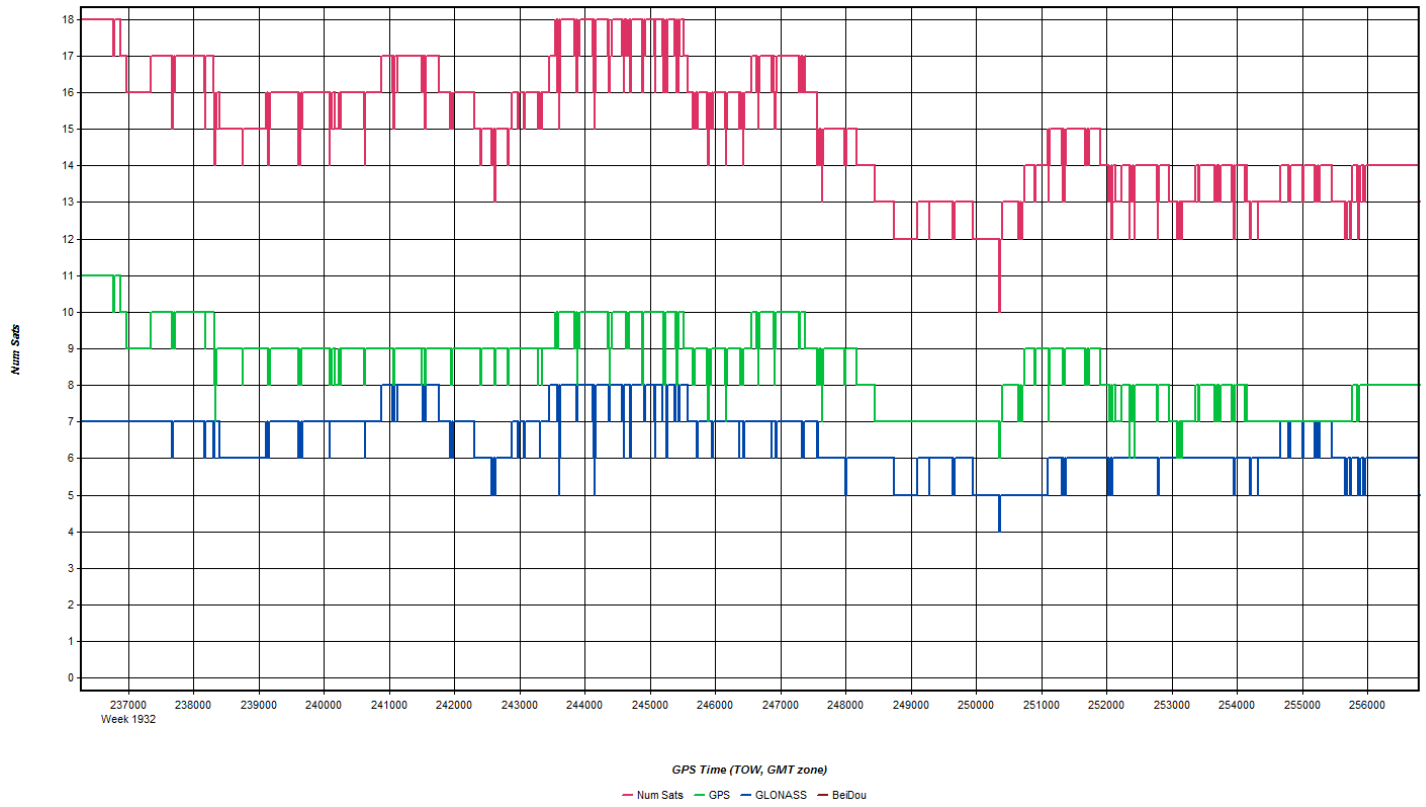
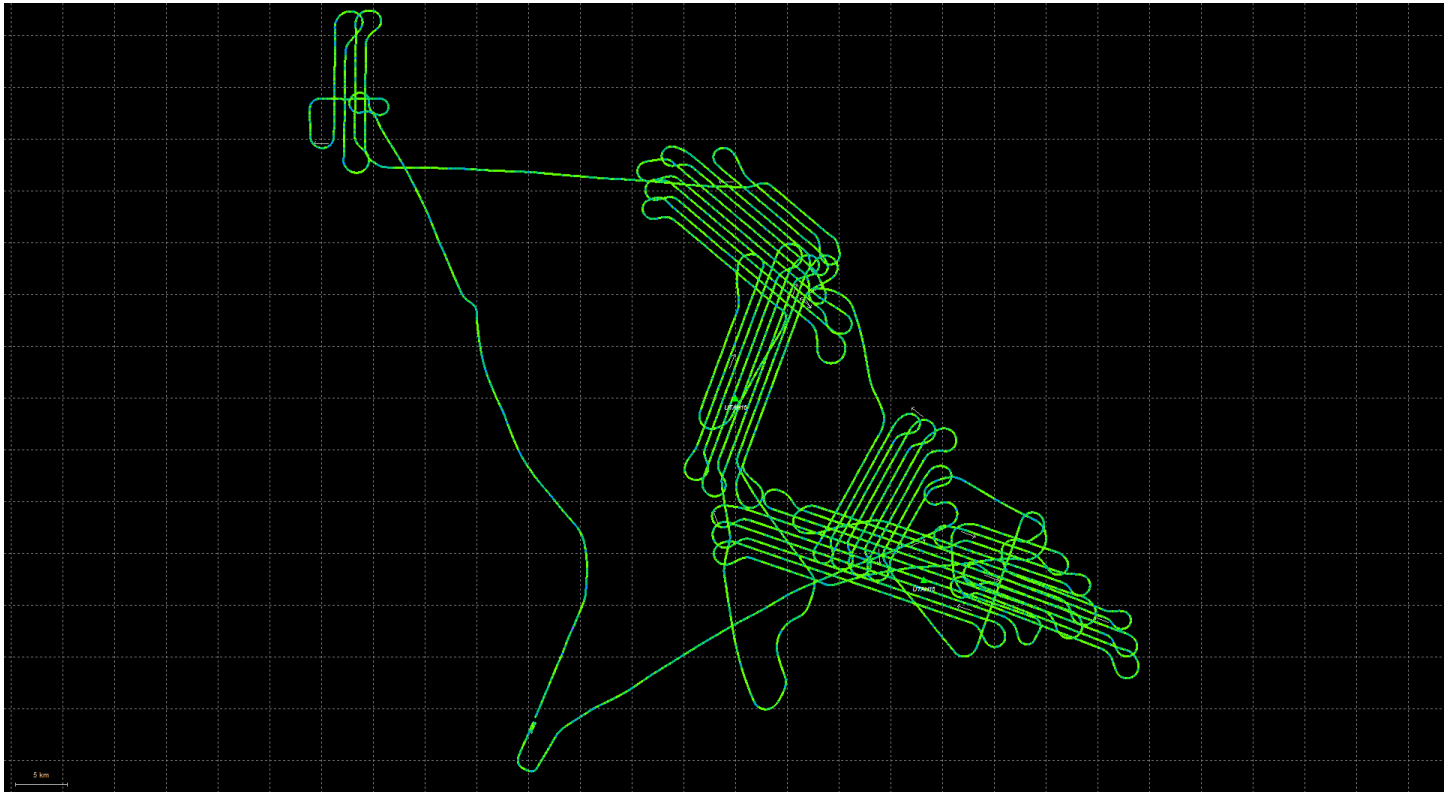
Notes

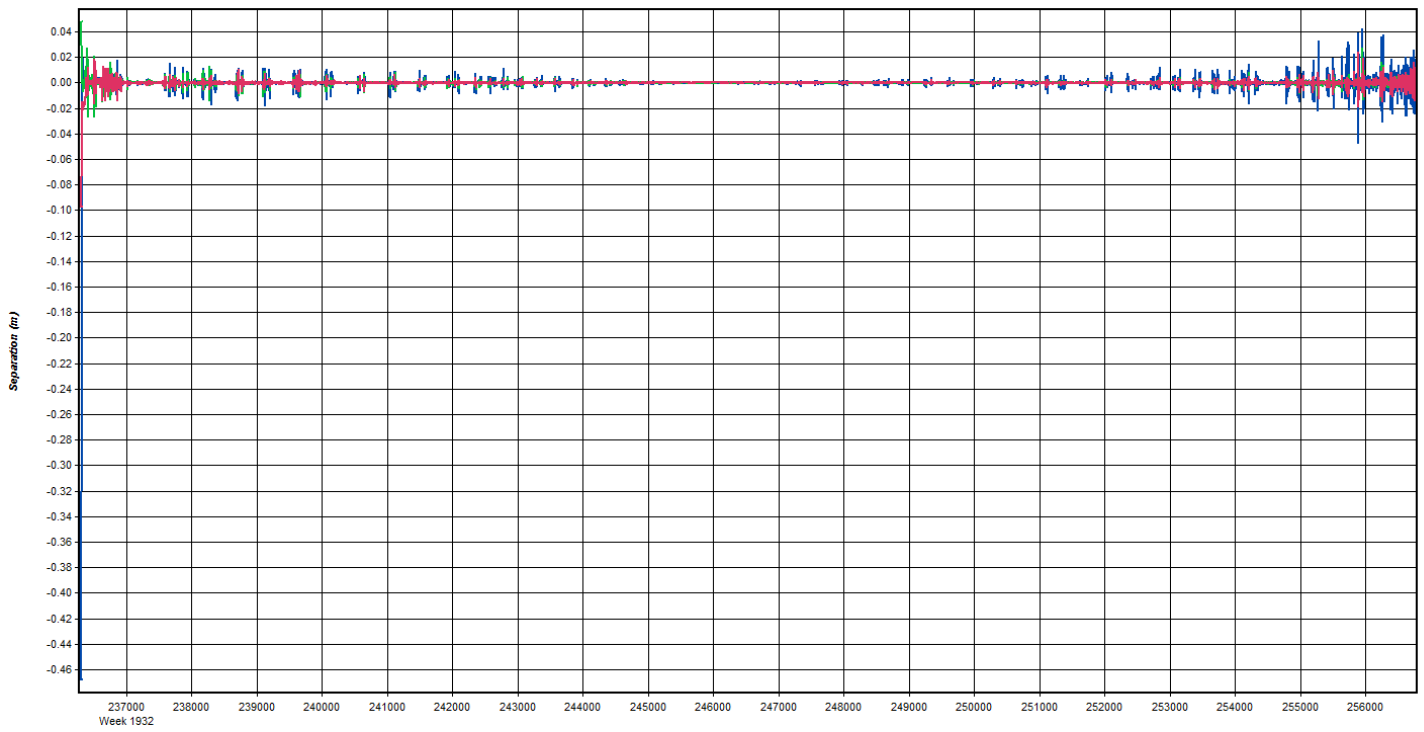
LR was out early and we wired and put our finishing touches on the install. Got 208NR filled up with Os since we are flying lines up to 13,000 feet. Tested the Phase one and POS on the ground and everything seemed to be in working order. Got wheels up and headed over to our AOI. Everything went smooth, and we landed at KSGU right after sunset. Cloudpro/LasOverlap still isn't working properly. Will continue to troubleshoot.

Flt Mgmt File: FMSL_Utah_WACounty_SN8239

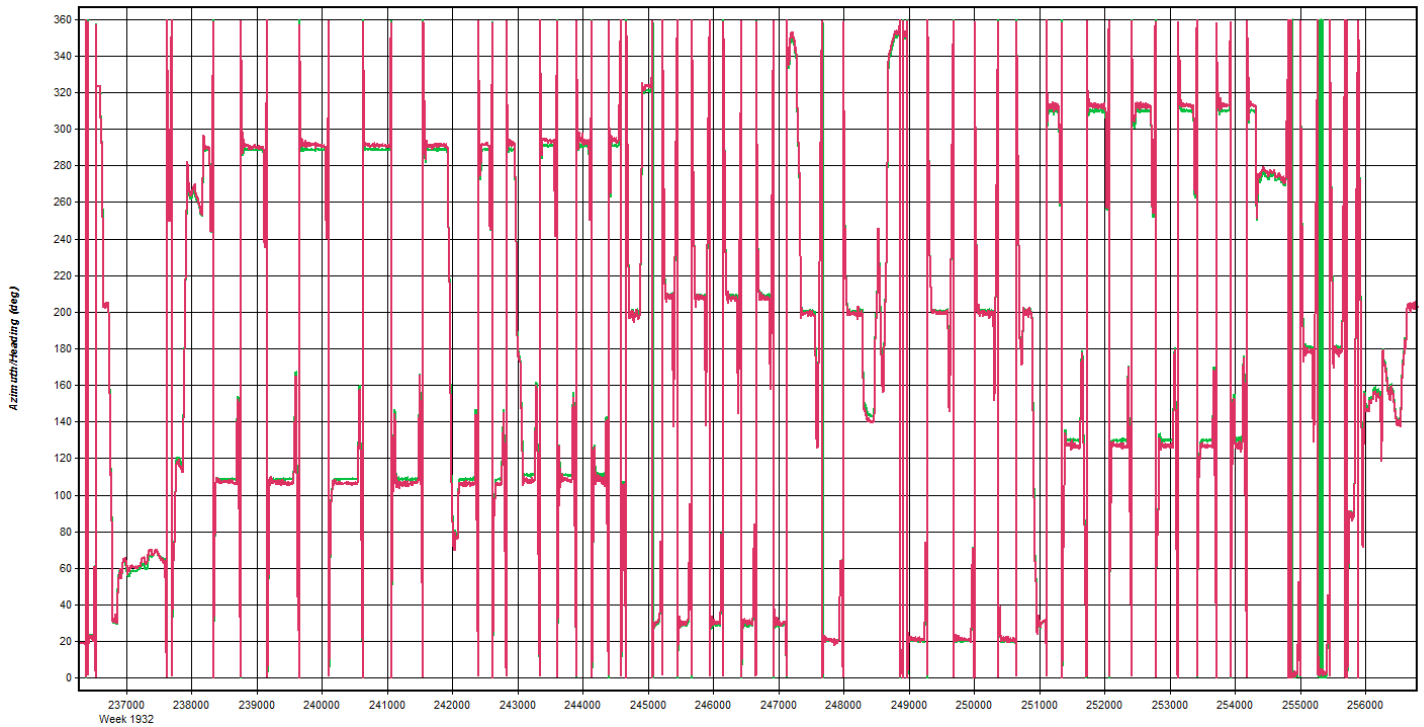
71	10:07:03 PM	1545.542847	10:08:47 PM
72	10:10:56 PM	2043.262451	10:12:40 PM
73	10:14:36 PM	1797.277344	10:16:23 PM
74	10:18:14 PM	2056.122559	10:20:00 PM
75	10:22:02 PM	1767.947144	10:23:50 PM
76	10:25:42 PM	2102.282715	10:27:30 PM
77	10:29:42 PM	1880.231445	10:31:26 PM
78	10:34:06 PM	2014.43689	10:35:51 PM
79	10:38:20 PM	1789.104736	10:41:04 PM
80	10:43:19 PM	2014.935059	10:46:07 PM
81	10:48:16 PM	1870.160522	10:51:07 PM
82	10:53:16 PM	1950.103149	10:56:09 PM
83	10:58:13 PM	1459.966431	11:01:05 PM
84	11:02:55 PM	1920.874634	11:05:44 PM
85	11:08:24 PM	2004.483765	11:10:35 PM
126	11:16:05 PM	2107.072754	11:19:22 PM
125	11:21:32 PM	1914.307617	11:24:51 PM
124	11:26:58 PM	2045.442261	11:30:50 PM
123	11:32:52 PM	1869.517456	11:36:35 PM
123	11:39:02 PM	0	11:42:46 PM
122	11:45:25 PM	1792.422485	11:49:10 PM
121	11:51:29 PM	2096.605957	11:55:17 PM
120	11:57:12 PM	1775.695557	12:00:54 AM
119	12:08:19 AM	0	12:09:51 AM
118	12:12:02 AM	1786.326904	12:13:49 AM
117	12:16:20 AM	2105.2146	12:18:08 AM
116	12:19:50 AM	1651.669434	12:21:37 AM
115	12:23:36 AM	1705.480347	12:24:58 AM
114	12:26:51 AM	1874.776733	12:28:05 AM
UL001	12:33:39 AM	1958.256592	12:35:07 AM

Jan 17, 2017-A (N208NR, SN8239)

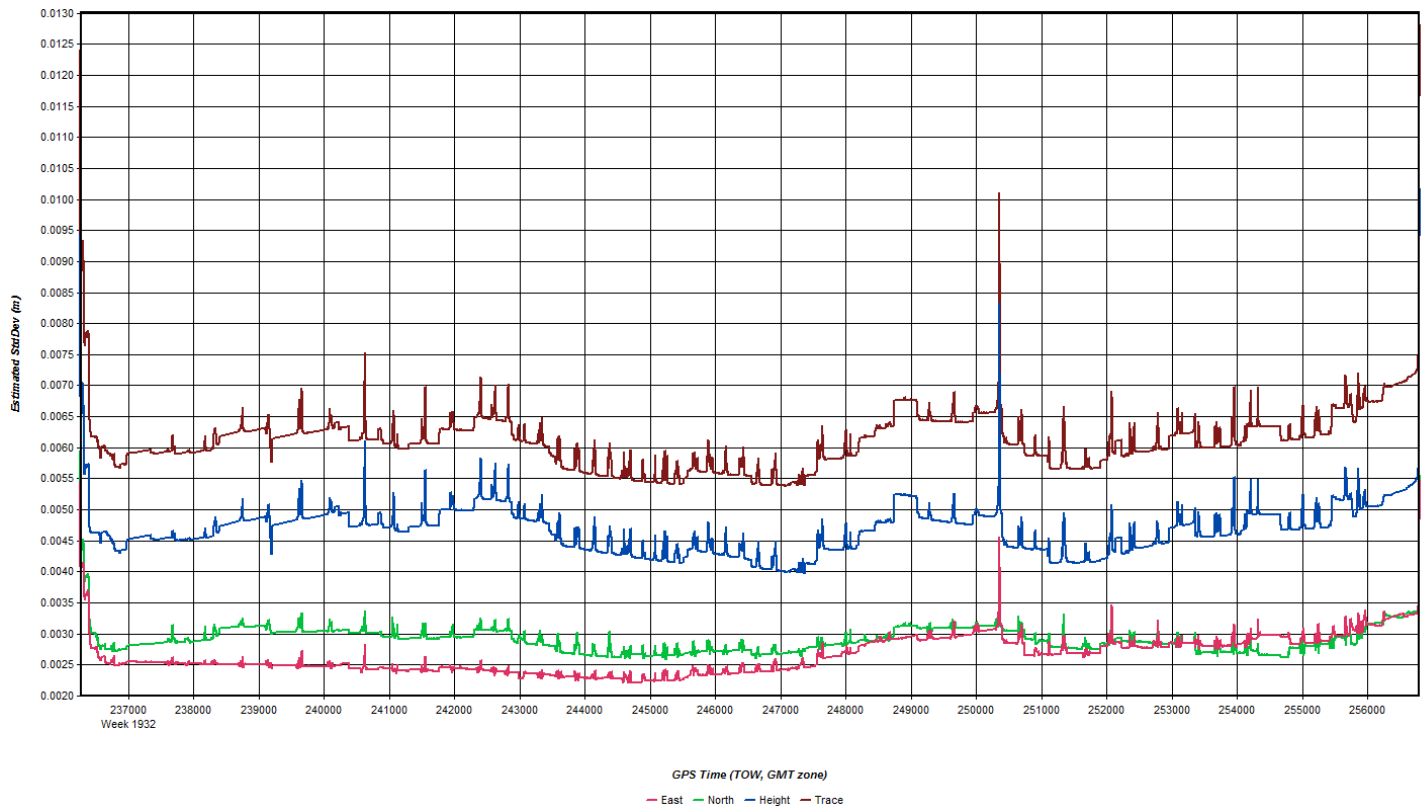
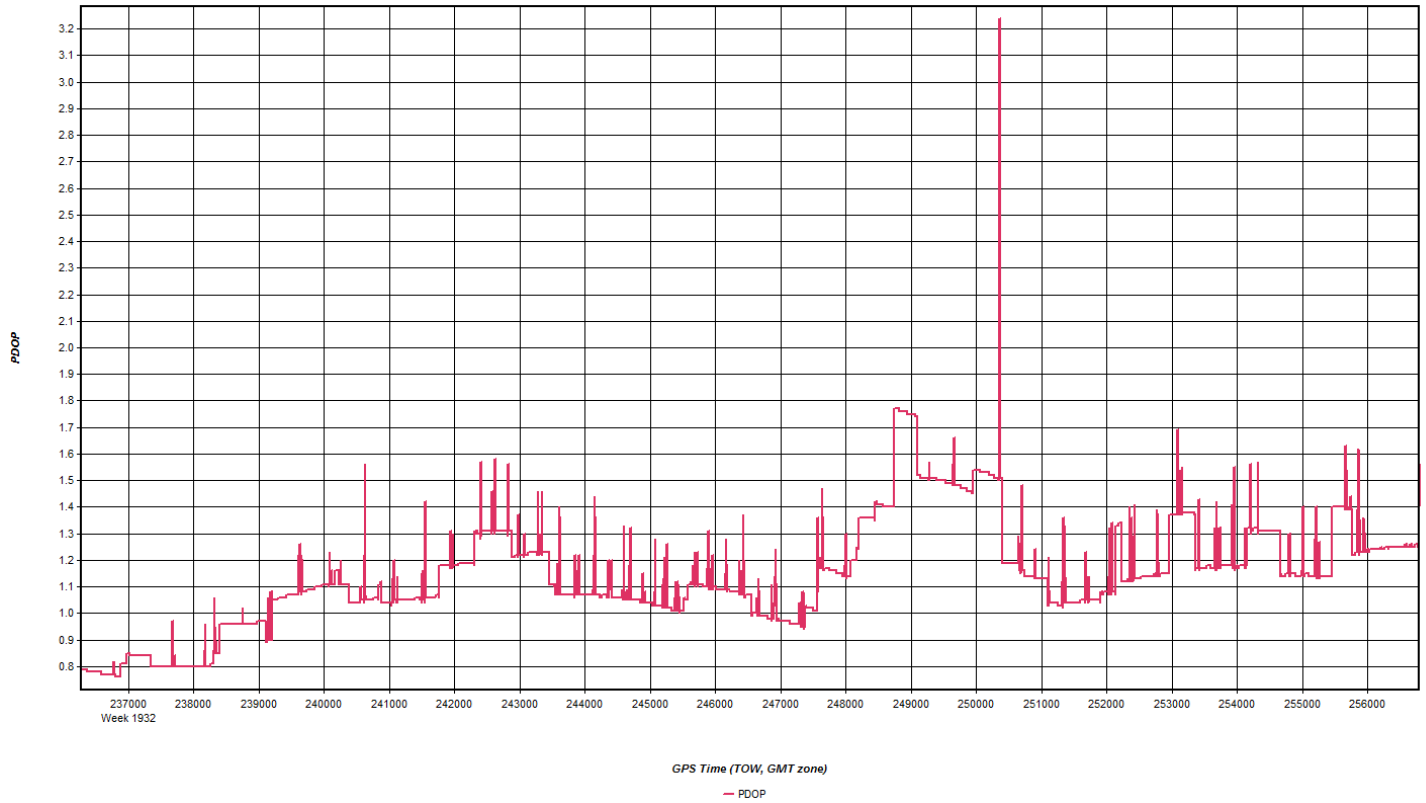


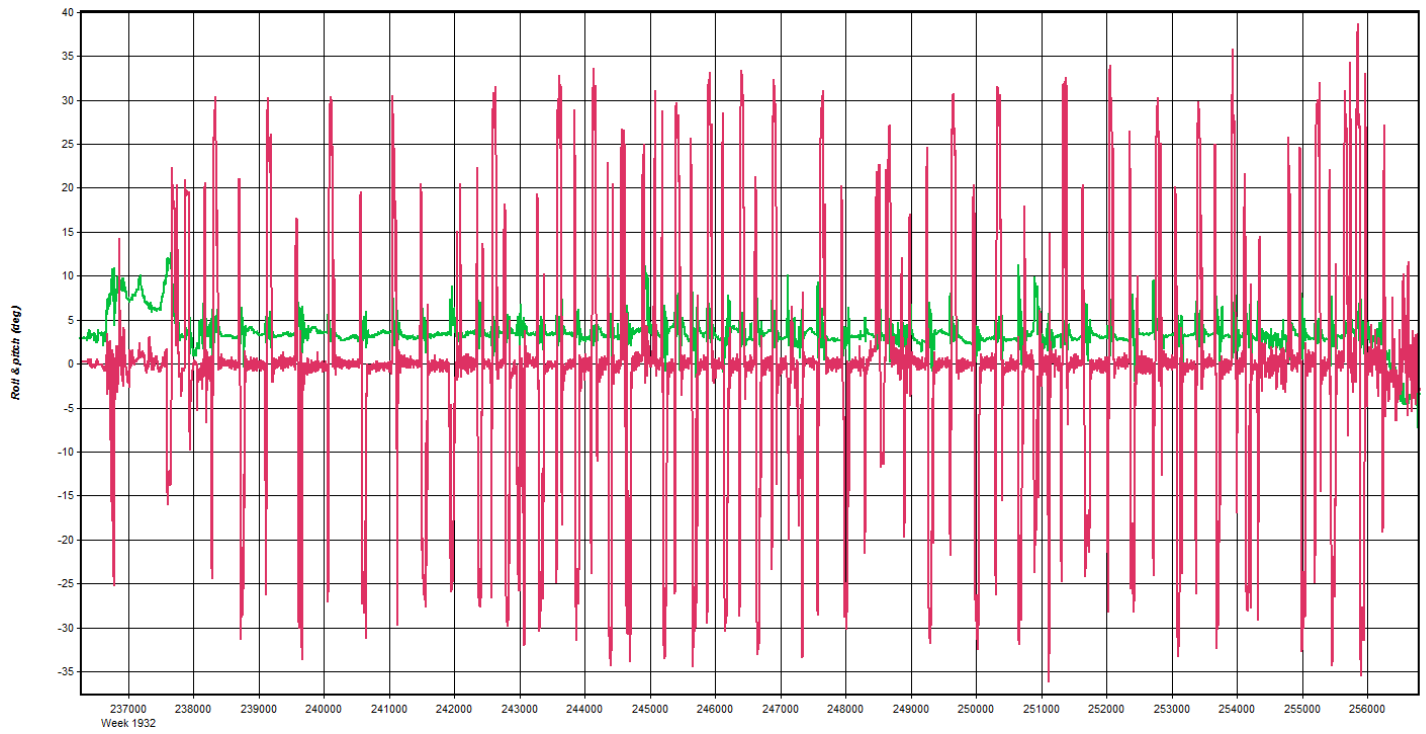


GPS Time (TOW, GMT zone)
— East — North — Up



GPS Time (TOW, GMT zone)
— Heading/Azimuth — GPS-COG

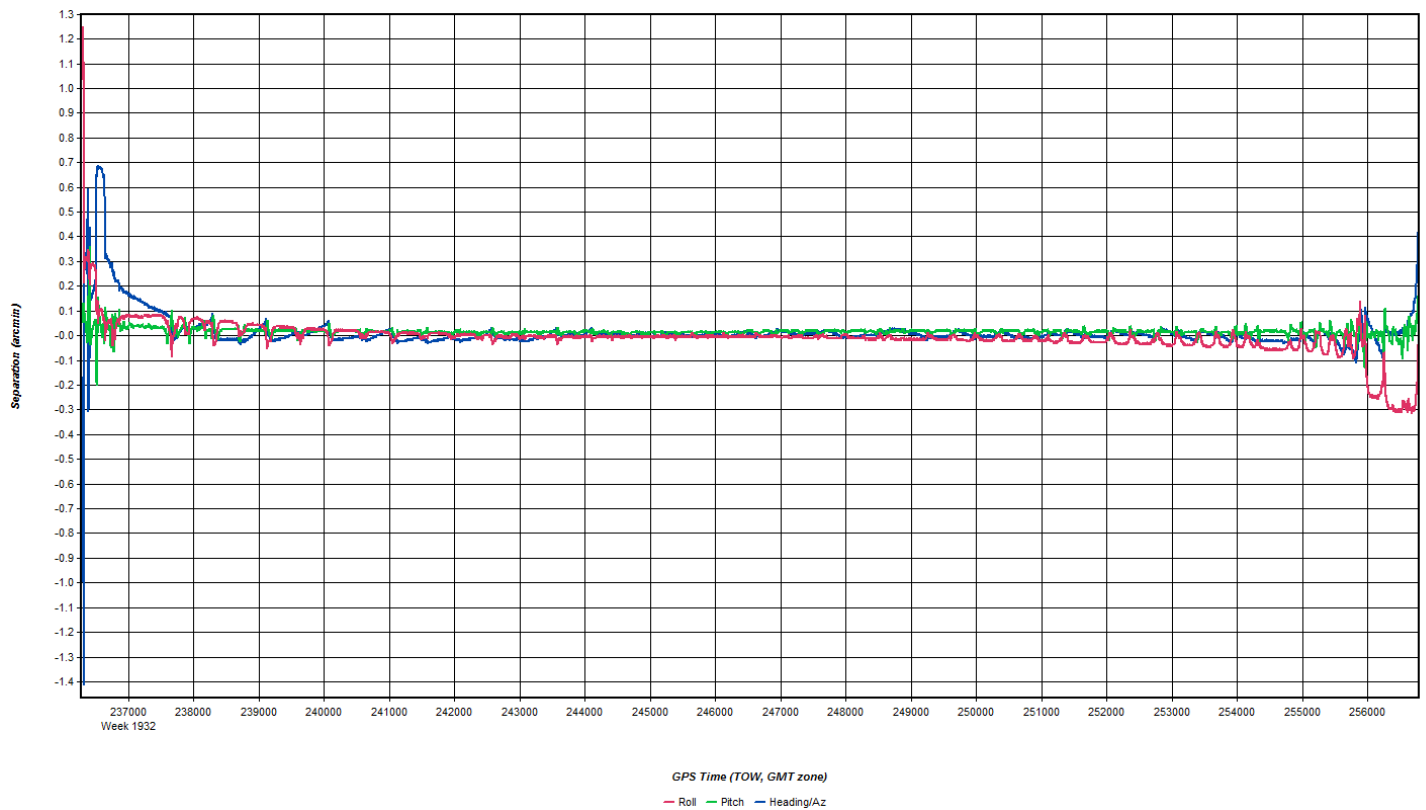
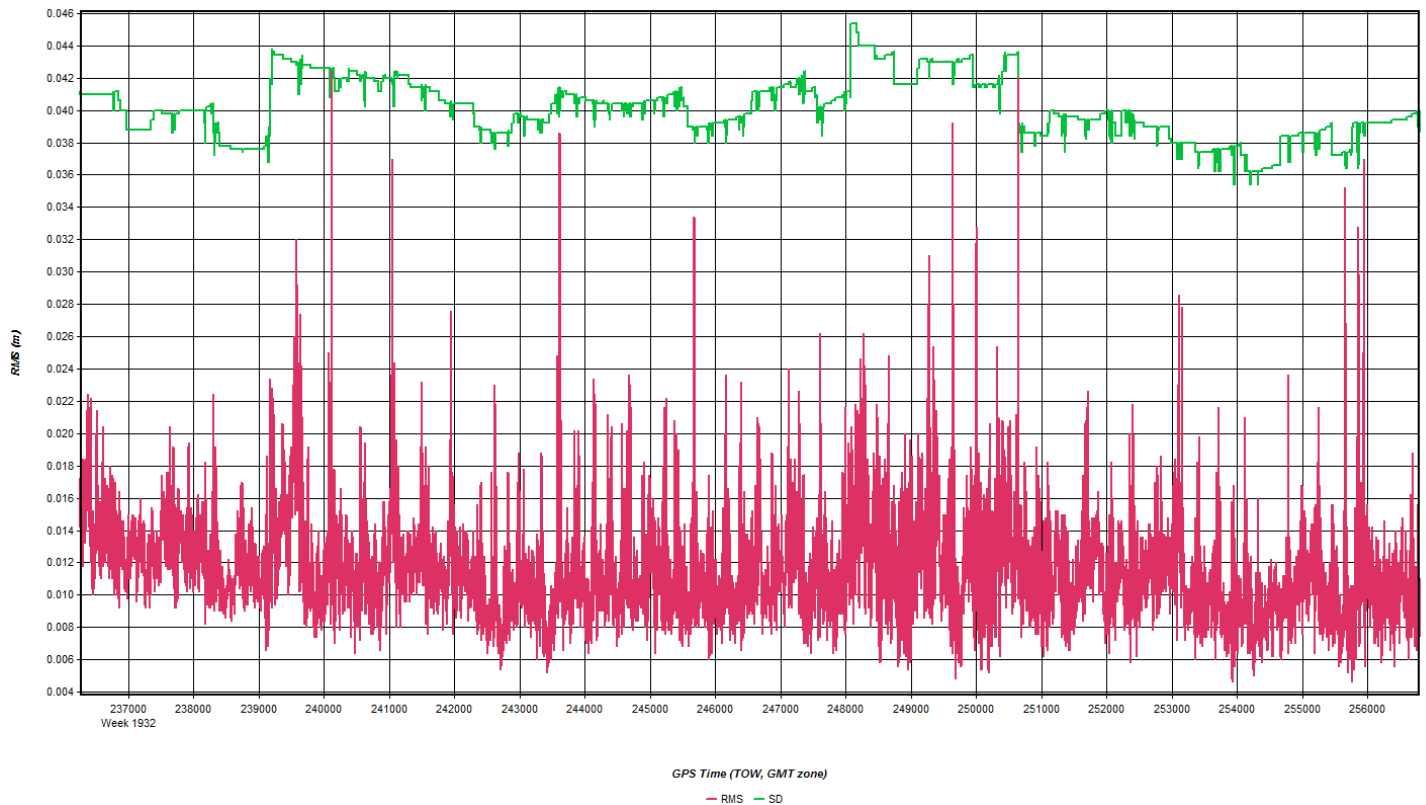


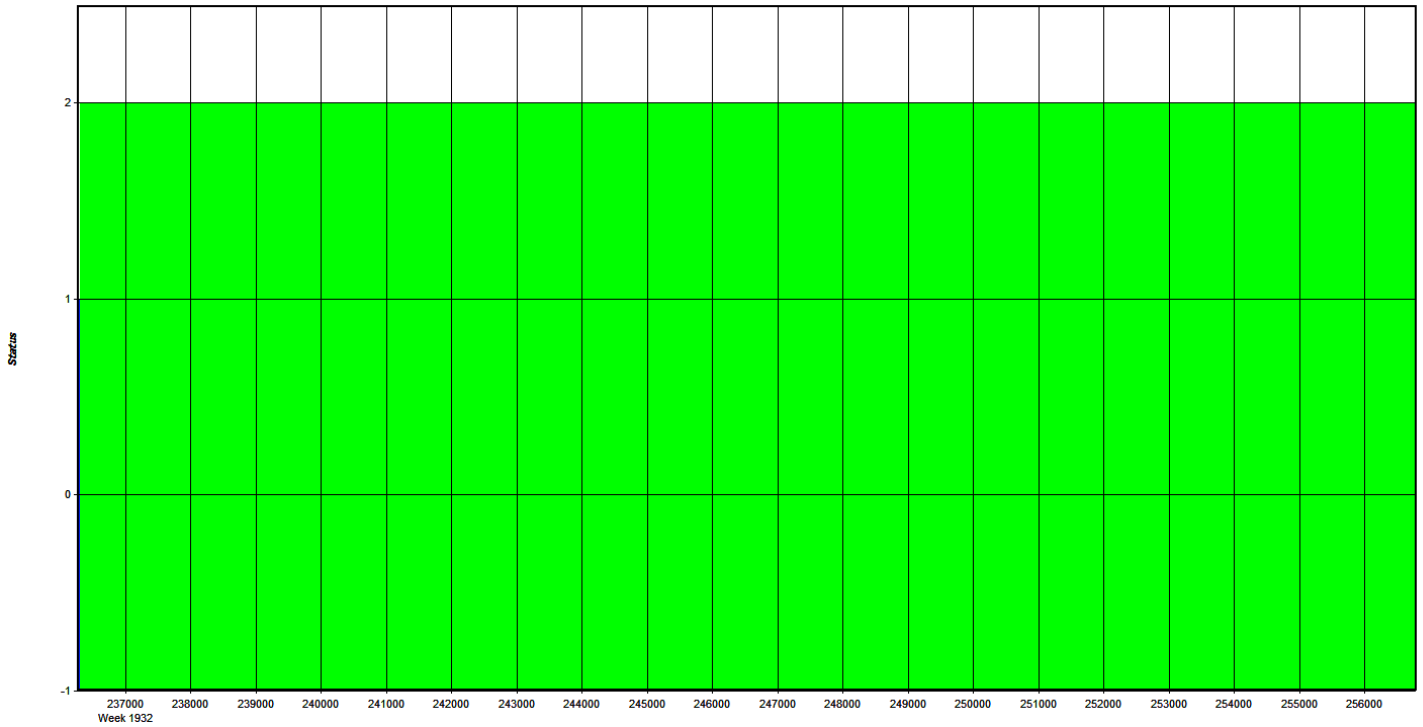


GPS Time (TOW, GMT zone)
— Roll — Pitch



GPS Time (TOW, GMT zone)
— Height





GPS Time (TOW, GMT zone)
 - Float - Forward Fixed - Reverse Fixed - Fixed (2 or more)

Coordinate/Antenna Settings

Master Remote

Base Station
 2: UTAH16_37 Name: UTAH16_37 Disabled
 File: E:\Proc\29083_UTAH\From_Lara_Heitmeyer_2-16-17\UTAH_2-1

Coordinates
 Latitude: North 37 10 13.47031 Compute from PPP
 Longitude: West 113 04 55.66964 Enter Grid Values
 Ellipsoidal height: 1097.704 m Enter MSL Height
 Datum: WGS84 Datum Options
 Select From Favorites Add To Favorites Use Average Position

Antenna Height
 From station file: TRM55971.00 View STA File
 Antenna profile: TRM57971.00 Info
 Measured height: 1.800 m
 ARP to L1 offset: 0.067 m
 Applied height: 1.867 m
 Measured to:
 ARP
 L1 Phase Centre
 Compute From Slant

OK Cancel

Coordinate/Antenna Settings ? X

Master Remote

Base Station
1: UTAH16_38 Name: UTAH16_38 Disabled
File: E:\Proc\29083_UTAH\From_Lara_Heitmeyer_2-16-17\UTAH_2-1

Coordinates
Latitude: North 37 19 35.50688 Compute from PPP
Longitude: West 113 17 08.78469 Enter Grid Values
Ellipsoidal height: 1236.991 m Enter MSL Height
Datum: WGS84 Datum Options
Select From Favorites Add To Favorites Use Average Position

Antenna Height
From station file: TRM55971.00 View STA File
Antenna profile: TRM57971.00 Info
Measured height: 1.800 m
ARP to L1 offset: 0.067 m
Applied height: 1.867 m
Measured to:
 ARP
 L1 Phase Centre
Compute From Slant

OK Cancel

Flight Log

Date: 1/17/2017	Aircraft: N604MD	Sensor: 8239
Project: Utah 2016 LiDAR		Project #: R029083
Flight Mgmt File: FMSL_Utah_WACounty_SN8239		
Pilot: Eric Petersen		Sensor Operator: Scott White

	Flight 1	Flight 2	Flight 3	Flight 4
Wheels Up	10:43:00 AM			
Wheels Down	4:22:00 PM			
Begin Hobbs	4474.9			
End Hobbs	4480.5			
On-line Hobbs: 5.4		Mob Hobbs: 0.2		

Notes

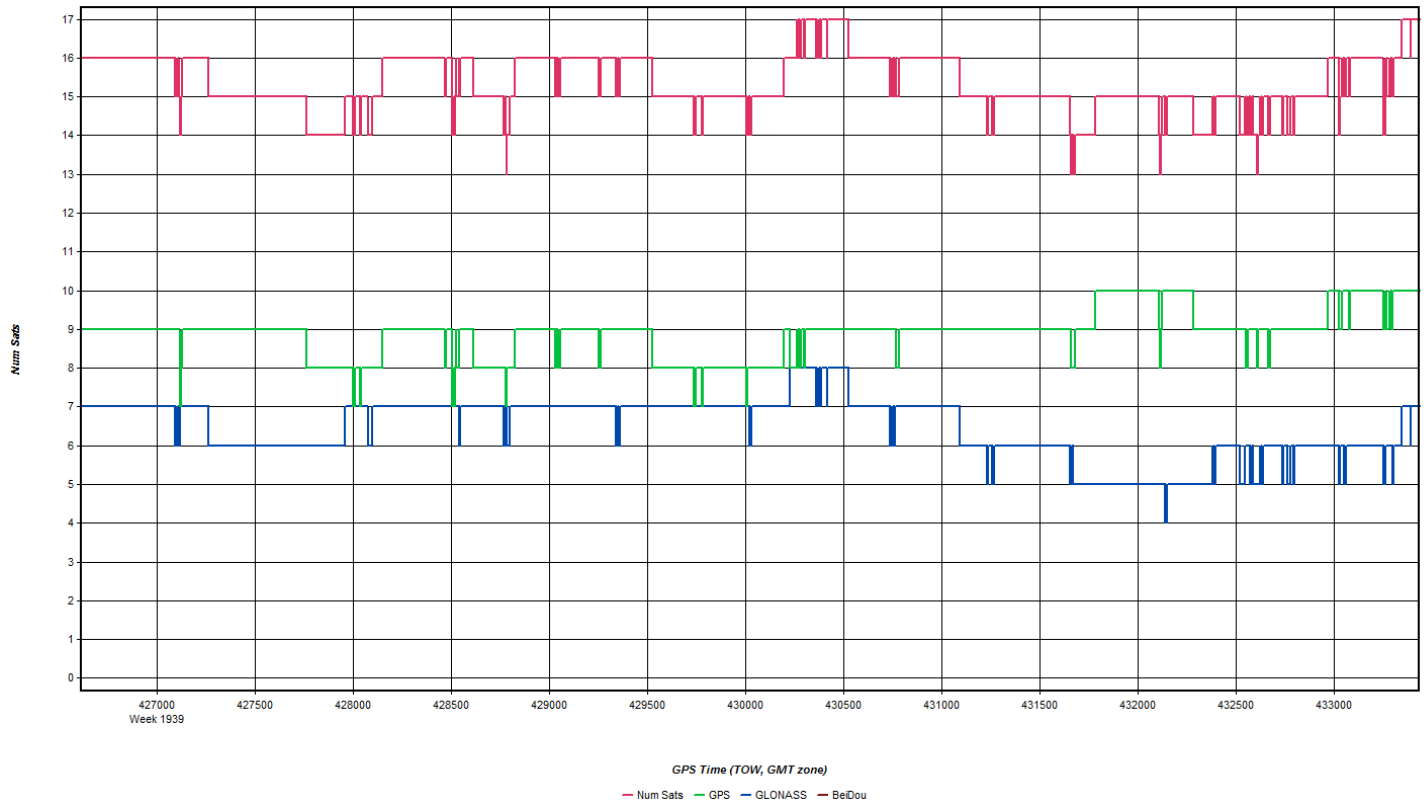
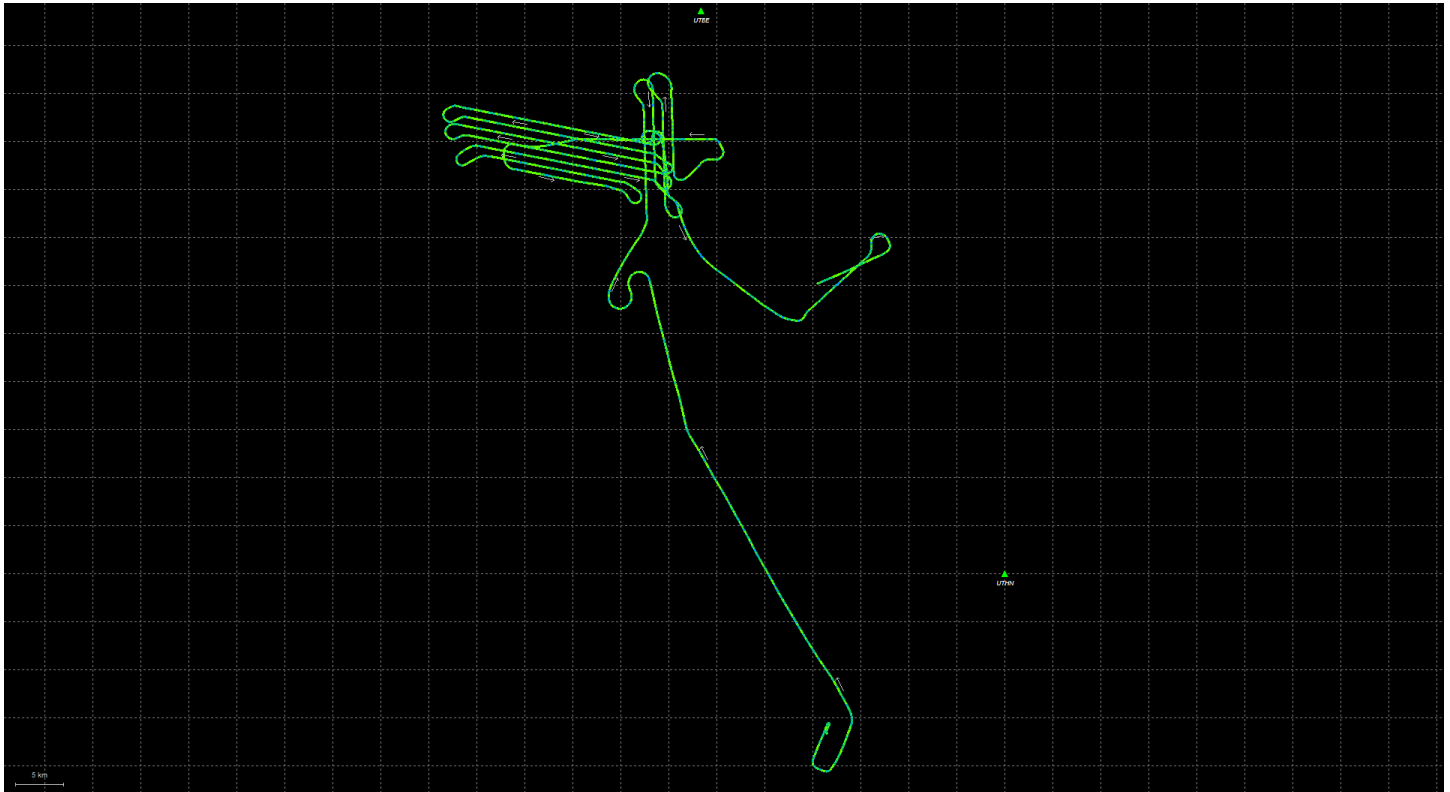
Got a good lift today after some frost melted off 208NR that was present in the morning. We got lucky with snow, with multiple blocks that had snow just outside of the buffered AOI. I flew what was snow free, and made a snow KML and took Pictures of what isn't. Overall we got the most done we have in a day for this project.

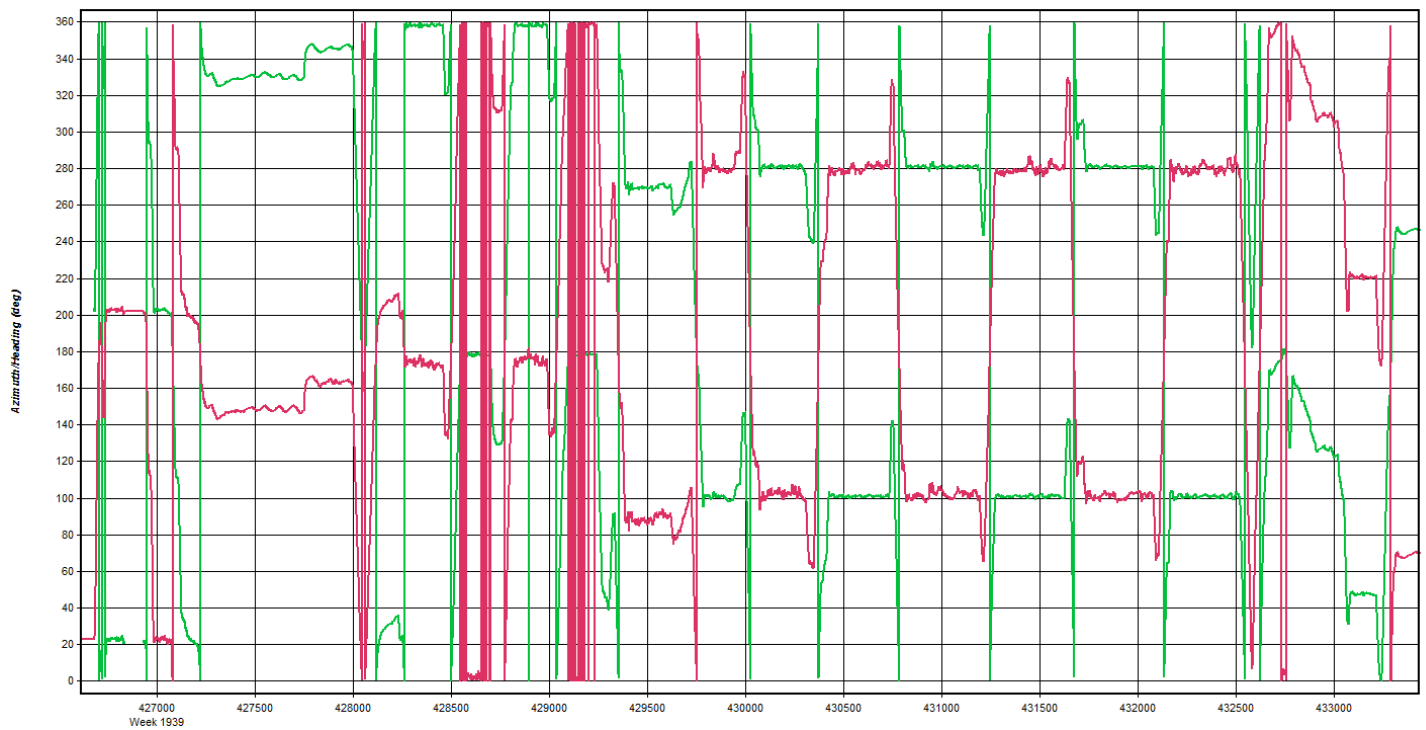
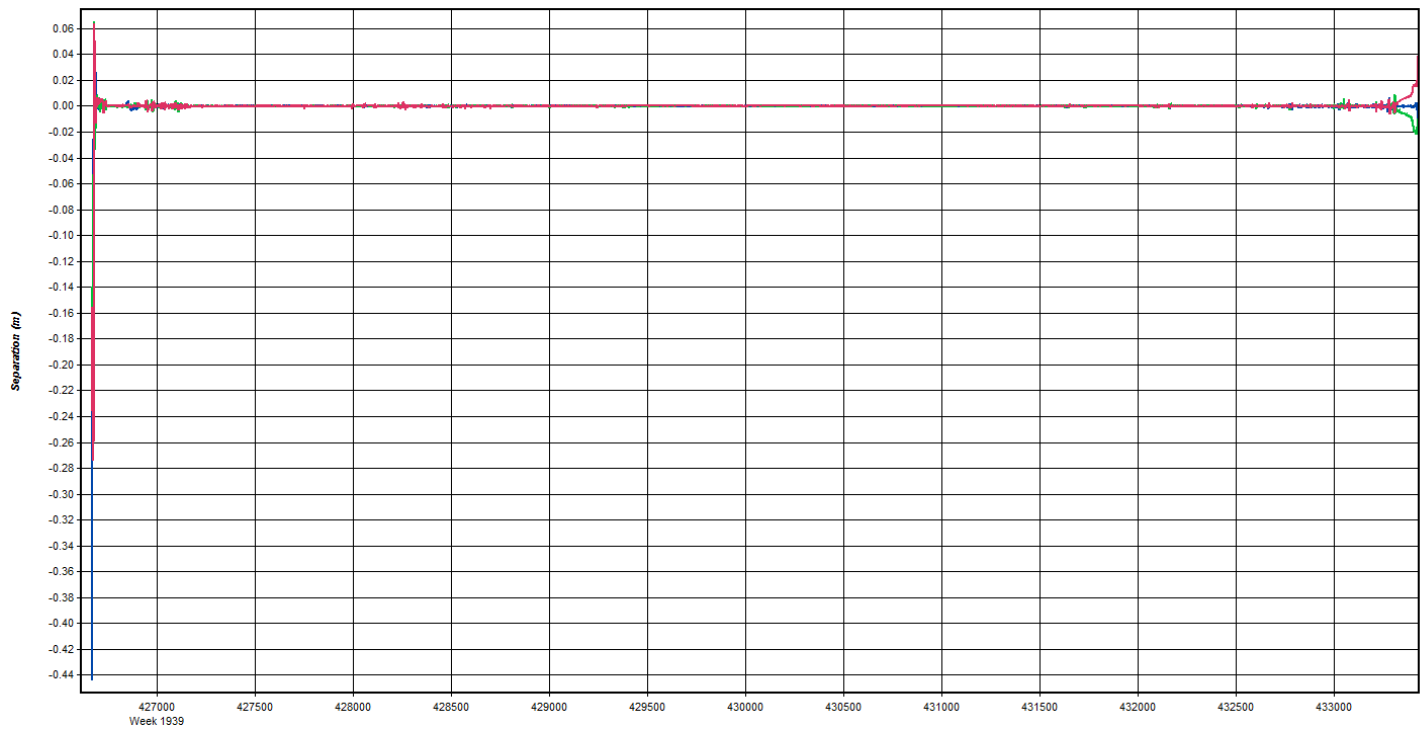
Flt Mgmt File: FMSL_Utah_WACounty_SN8239

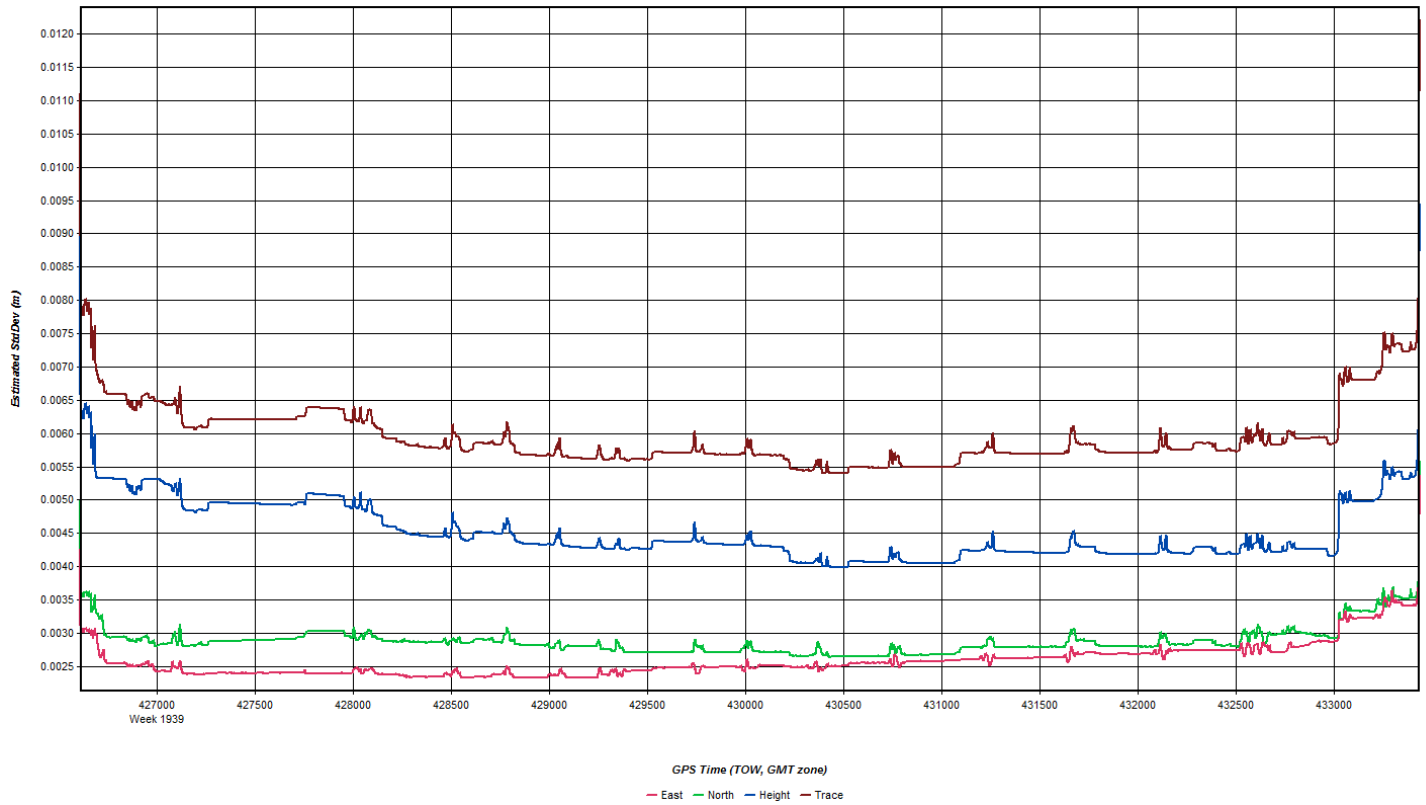
112	6:10:00 PM	0	6:11:00 PM
111	6:12:00 PM	2120.916504	6:17:00 PM
110	6:19:00 PM	1724.387939	6:24:00 PM
109	6:26:00 PM	2108.335205	6:32:00 PM
108	6:34:00 PM	1842.457031	6:40:00 PM
107	6:42:00 PM	2096.730957	6:48:00 PM
106	6:51:00 PM	1564.759277	6:56:00 PM
105	6:58:00 PM	1660.822388	7:04:00 PM
104	7:06:00 PM	1914.840088	7:11:00 PM
113	7:16:00 PM	1531.220215	7:18:00 PM
103	7:21:00 PM	1430.161987	7:22:00 PM
102	7:24:00 PM	1891.166138	7:25:00 PM
101	7:27:00 PM	1926.796143	7:28:00 PM
100	7:31:00 PM	2073.029541	7:33:00 PM
99	7:36:00 PM	1490.03833	7:38:00 PM
98	7:40:00 PM	2138.995605	7:43:00 PM
97	7:45:00 PM	1571.67395	7:47:00 PM
96	7:50:00 PM	2012.883301	7:52:00 PM
95	7:54:00 PM	1475.873779	7:55:00 PM
94	8:04:00 PM	2086.017334	8:05:00 PM
93	8:07:00 PM	1900.590332	8:09:00 PM
92	8:11:00 PM	2115.168701	8:13:00 PM
91	8:15:00 PM	1884.067627	8:17:00 PM
90	8:19:00 PM	2105.510986	8:21:00 PM
89	8:23:00 PM	1699.329224	8:25:00 PM
88	8:27:00 PM	2093.920898	8:29:00 PM
87	8:31:00 PM	1584.920898	8:33:00 PM
86	8:35:00 PM	2147.880371	8:37:00 PM
70	8:42:00 PM	1425.903198	8:45:00 PM
70	8:48:00 PM	2072.453613	8:51:00 PM
69	8:54:00 PM	1649.715332	8:57:00 PM
68	9:10:00 PM	2041.874146	9:13:00 PM
67	9:15:00 PM	1749.58728	9:19:00 PM
66	9:21:00 PM	2096.771729	9:25:00 PM
65	9:27:00 PM	1858.795044	9:31:00 PM
64	9:33:00 PM	1972.563965	9:36:00 PM
63	9:39:00 PM	1859.664795	9:41:00 PM

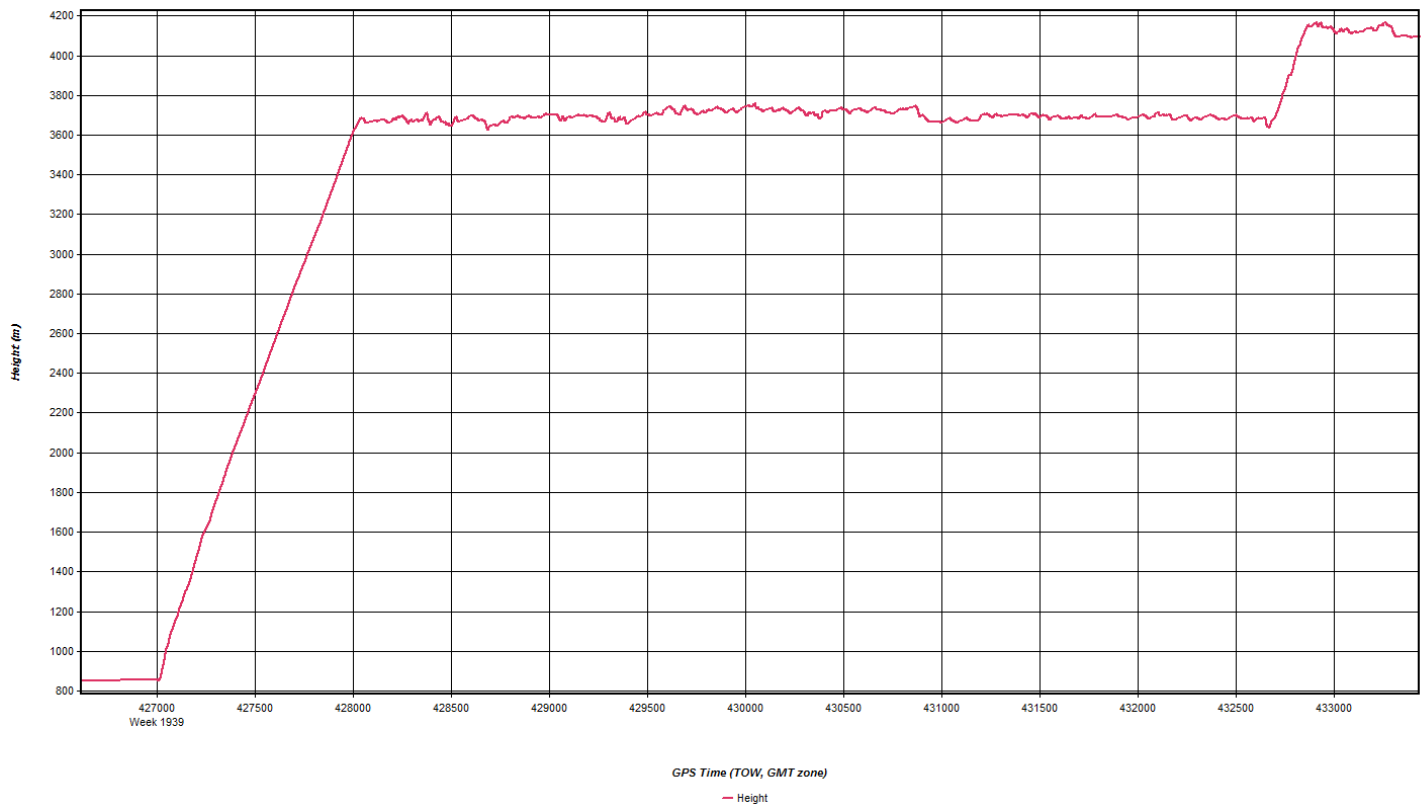
Name	StartTime (UTC)	Start AGL (m)	End Time (UTC)
62	9:45:00 PM	2102.90625	9:48:00 PM
61	9:49:00 PM	1561.720215	9:53:00 PM
60	9:56:00 PM	1680.026367	10:00:00 PM
59	10:01:00 PM	1680.789063	10:05:00 PM
58	10:08:00 PM	1625.091919	10:11:00 PM
57	10:14:00 PM	1808.301025	10:17:00 PM
56	10:19:00 PM	1847.973511	10:22:00 PM
55	10:24:00 PM	1699.771729	10:27:00 PM
54	10:29:00 PM	1932.793701	10:31:00 PM
53	10:33:00 PM	1979.743408	10:34:00 PM
52	10:37:00 PM	1726.783325	10:38:00 PM
191	10:47:00 PM	1977.496704	10:48:00 PM
190	10:51:00 PM	2118.955322	10:52:00 PM
189	10:54:00 PM	2057.638184	10:56:00 PM
188	10:58:00 PM	2081.019531	11:00:00 PM
UL001	7:58:00 PM	0	8:00:00 PM
UL002	11:02:00 PM	2058.72876	11:03:00 PM

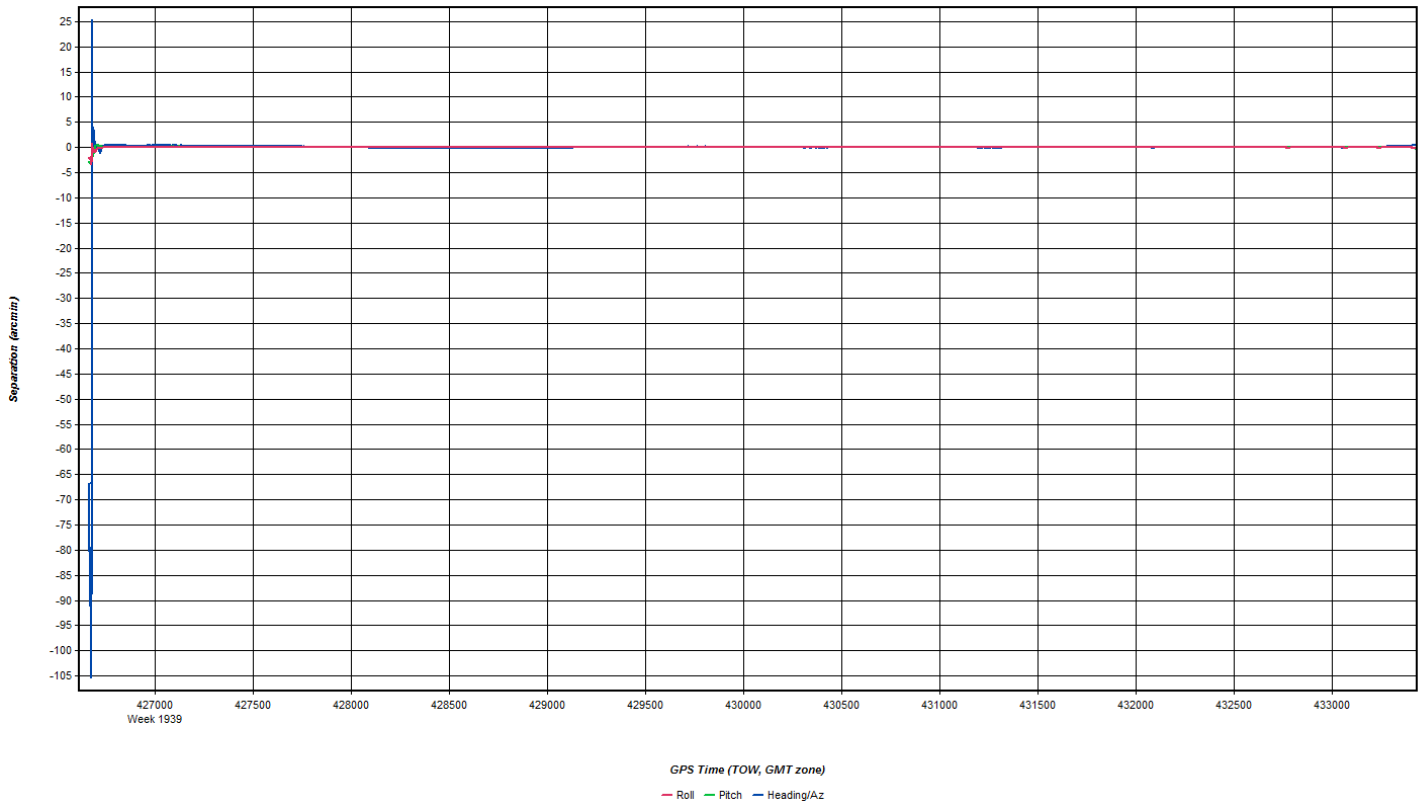
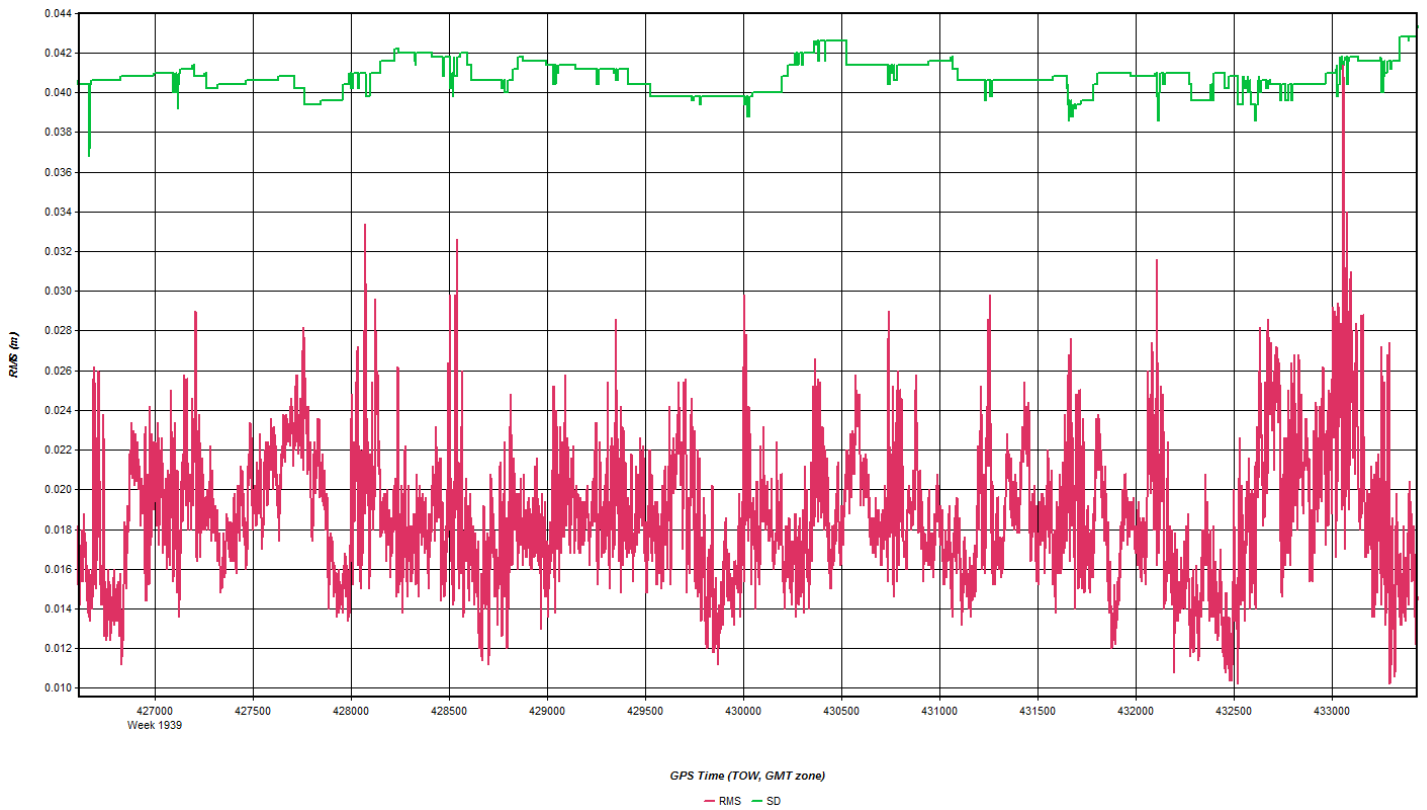
Mar 9, 2017-A (N704MD, SN8121)

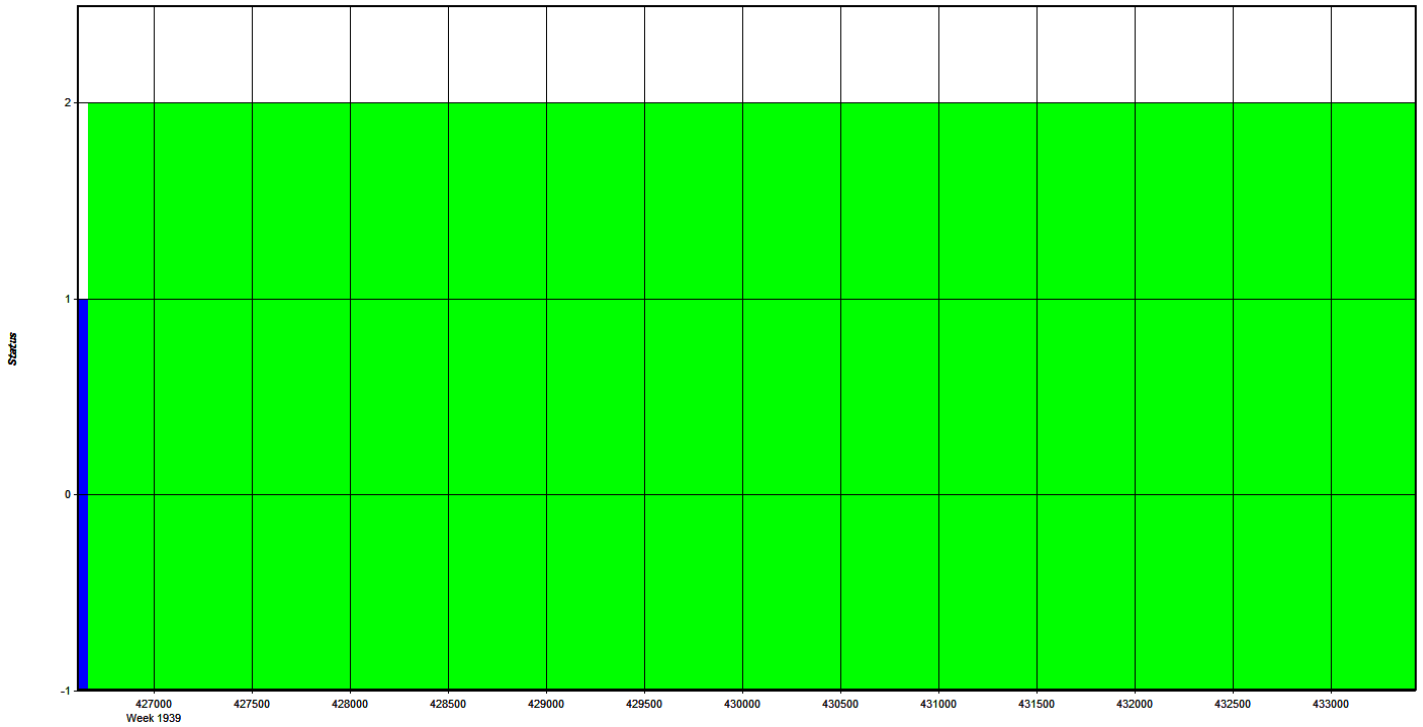












Coordinate/Antenna Settings

Master Remote

Base Station
 2: UTBE Name: UTBE Disabled
 File: E:\Proc\29083_UTAH\Survey_frp_4-5-17\Survey\2_Static\JD06i

Coordinates
 Latitude: North 37 42 22.68909 Compute from PPP
 Longitude: West 113 39 06.90893 Enter Grid Values
 Ellipsoidal height: 1562.843 m Enter MSL Height
 Datum: WGS84 Datum Options
 Select From Favorites Add To Favorites Use Average Position

Antenna Height
 From station file: TRM55971.00, NONE View STA File
 Antenna profile: TRM55971.00 Info
 Measured height: 0.000 m
 ARP to L1 offset: 0.067 m
 Applied height: 0.067 m
 Measured to:
 ARP
 L1 Phase Centre
 Compute From Slant

OK Cancel

Coordinate/Antenna Settings

Master Remote

Base Station
 1: UTHN Name: UTHN Disabled
 File: E:\Proc\29083_UTAH\Survey_ftp_4-5-17\Survey\2_Static\JD06i

Coordinates
 Latitude: North 37 11 08.50150 Compute from PPP
 Longitude: West 113 17 55.20863 Enter Grid Values
 Ellipsoidal height: 1013.602 m Enter MSL Height
 Datum: WGS84 Datum Options
 Select From Favorites Add To Favorites Use Average Position

Antenna Height
 From station file: TRM55971.00, NONE View STA File
 Antenna profile: TRM55971.00 Info
 Measured height: 0.000 m
 ARP to L1 offset: 0.067 m
 Applied height: 0.067 m
 Measured to:
 ARP
 L1 Phase Centre
 Compute From Slant

OK Cancel

Flight Log

Date: 3/9/2017	Aircraft: N704MD	Sensor: 8121
Project: Utah 2016 LiDAR		Project #: R029083
Flight Mgmt File: FMSL_WACounty_8121_speed_redux, FMSL_Utah_WACounty_SN8121_reflies		
Pilot: Eric Petersen		Sensor Operator: Jon Frech

	Flight 1	Flight 2	Flight 3	Flight 4
Wheels Up	9:55:00 AM	3:30:00 PM		
Wheels Down	11:35:00 AM	6:45:00 PM		
Begin Hobbs	11720.2	11721.6		
End Hobbs	11721.6	11724.7		
On-line Hobbs: 2.5		Mob Hobbs: 2		

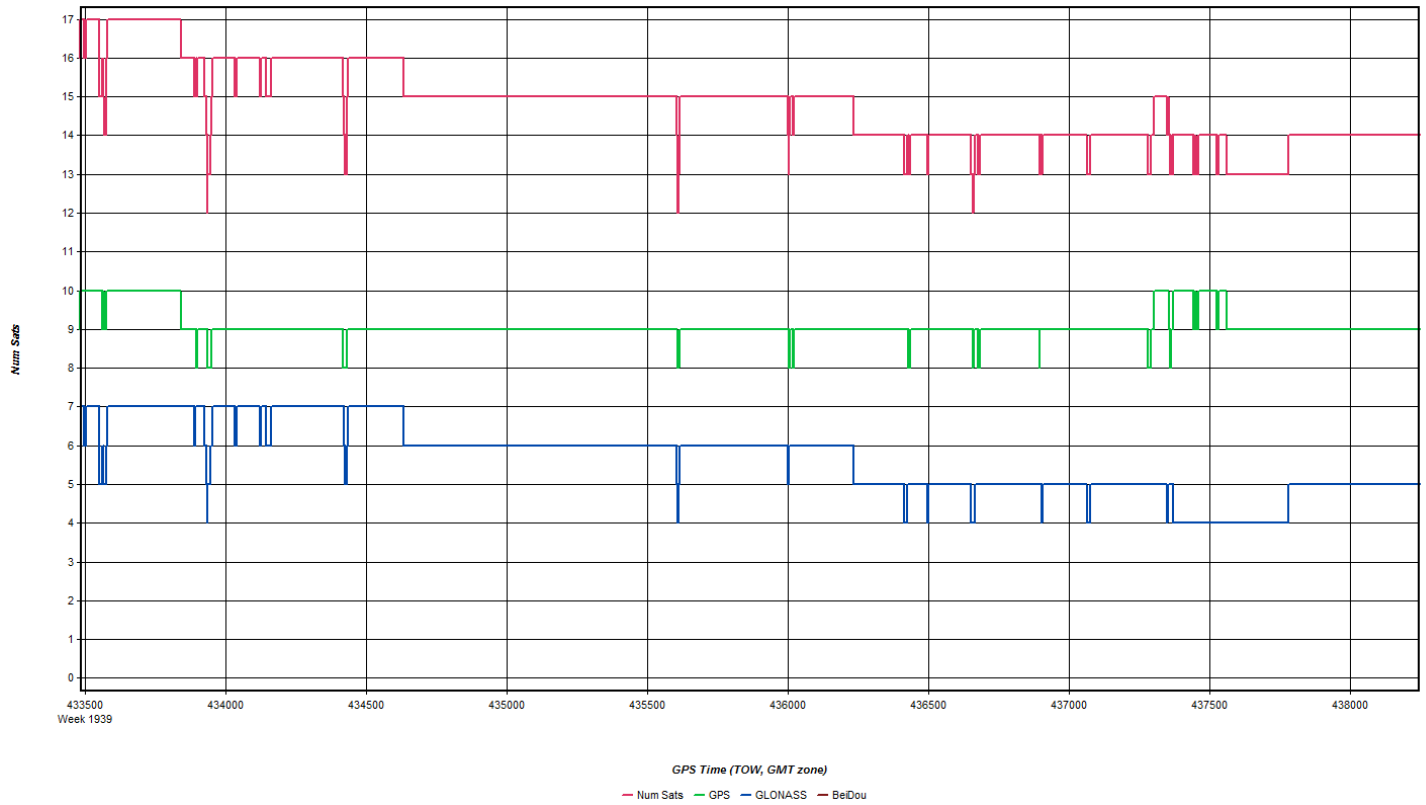
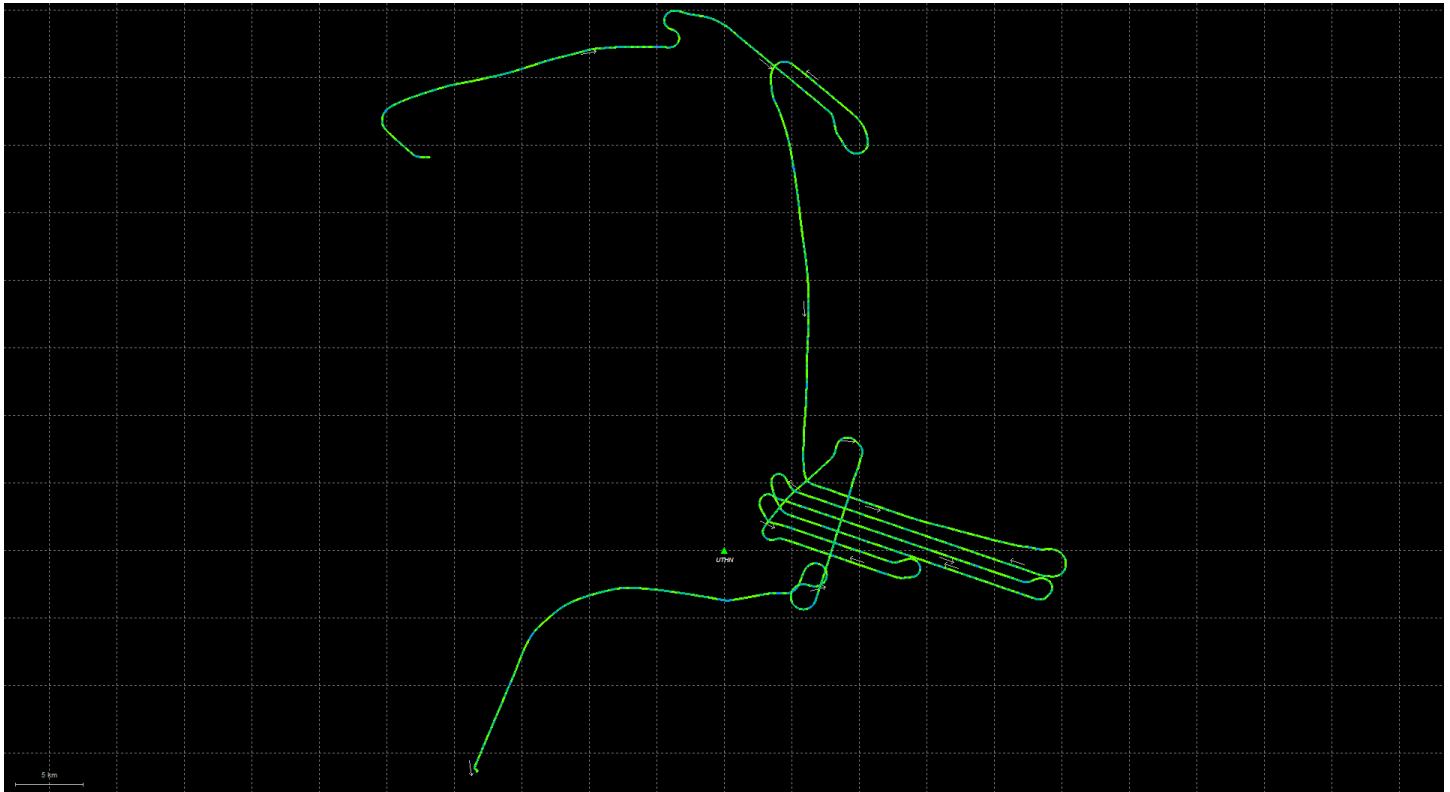
Notes

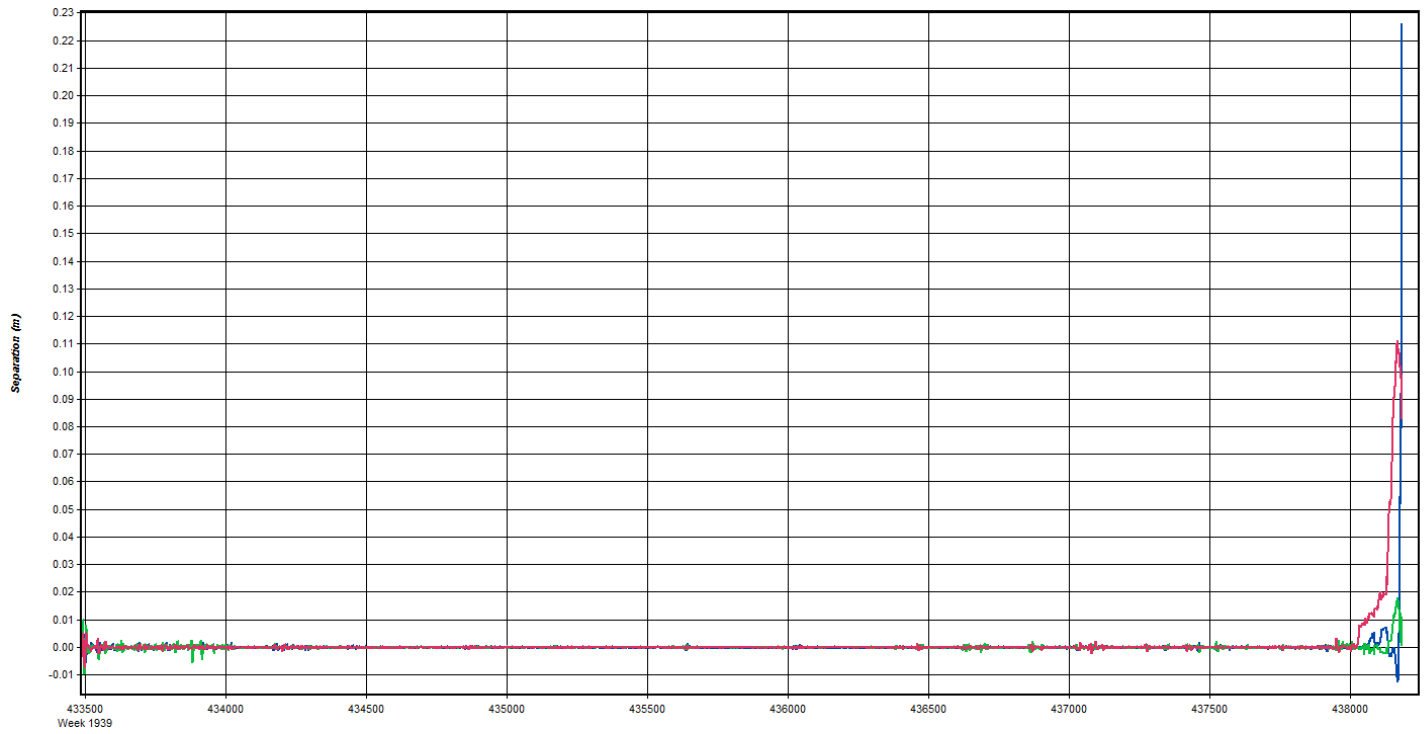
MOB to SGU with ground gear and CPB, disaster finding rental cars, got up for a late flight

Flt Mgmt File: FMSL_WACounty_8121_speed_redux, FMSL_Utah_
WACounty_SN8121_reflies

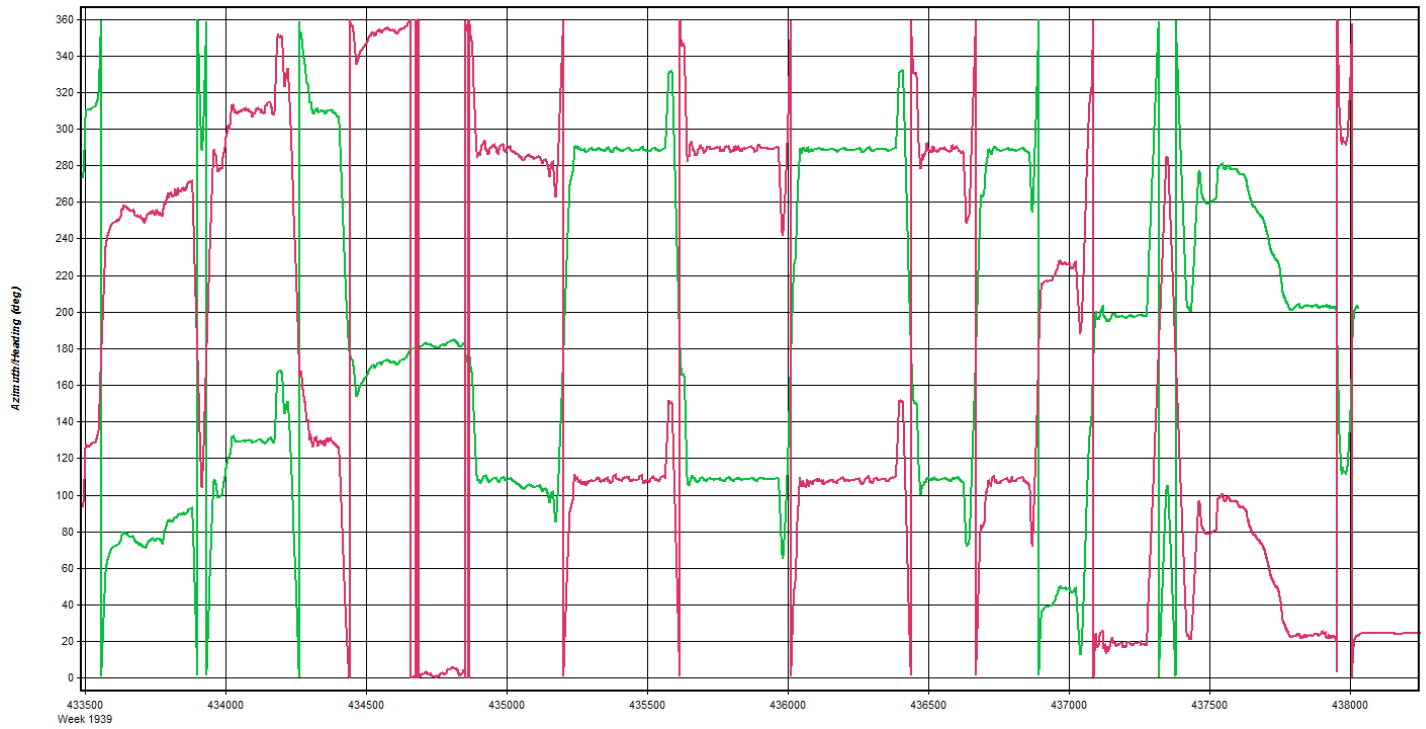
R001	10:58:29 PM	2053.582031	11:00:42 PM
R002	11:02:36 PM	2117.344482	11:04:44 PM
R003	11:07:23 PM	1988.538696	11:09:30 PM
R004	11:11:50 PM	2139.024902	11:13:39 PM
R029	11:16:36 PM	2077.910645	11:19:00 PM
136	11:23:16 PM	2043.16748	11:24:39 PM
135	11:27:42 PM	2044.414551	11:31:04 PM
134	11:33:36 PM	1874.095337	11:38:26 PM
133	11:40:23 PM	2124.749268	11:46:15 PM
132	11:47:54 PM	1948.367676	11:53:24 PM
131	11:55:17 PM	2109.124268	12:00:59 AM
130	12:02:52 AM	1960.753296	12:08:21 AM
111	12:17:45 AM	1961.992676	12:19:39 AM

Mar 9, 2017-B (N704MD, SN8121)

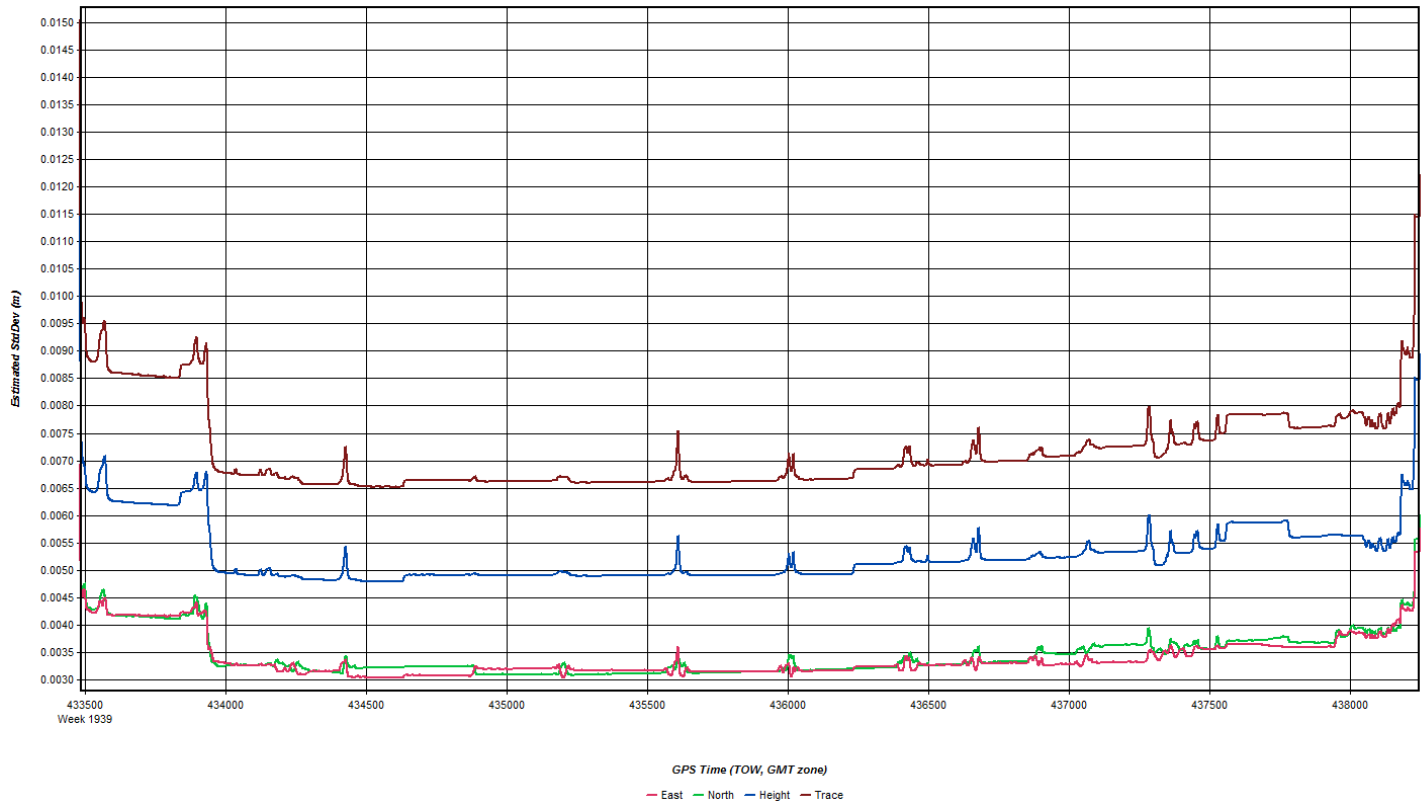
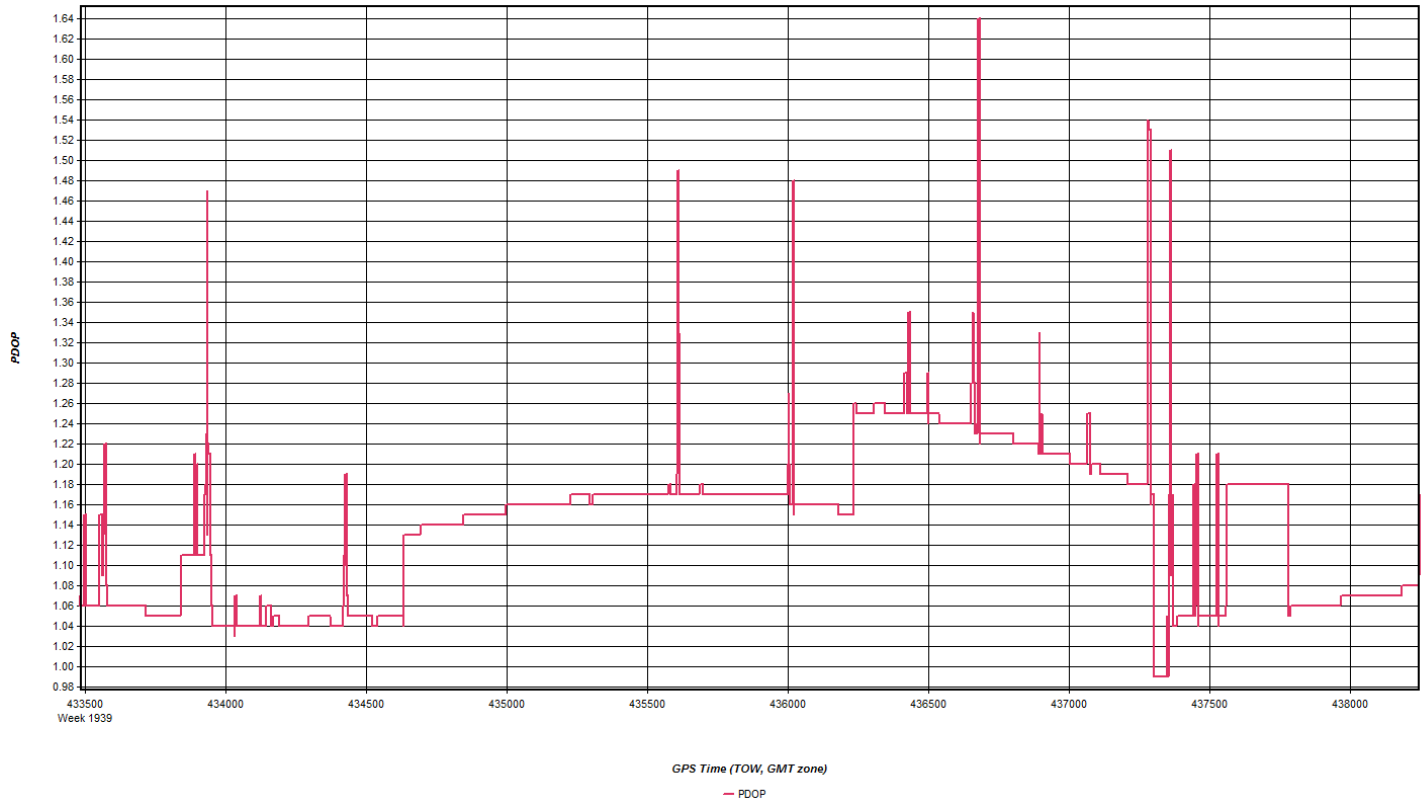


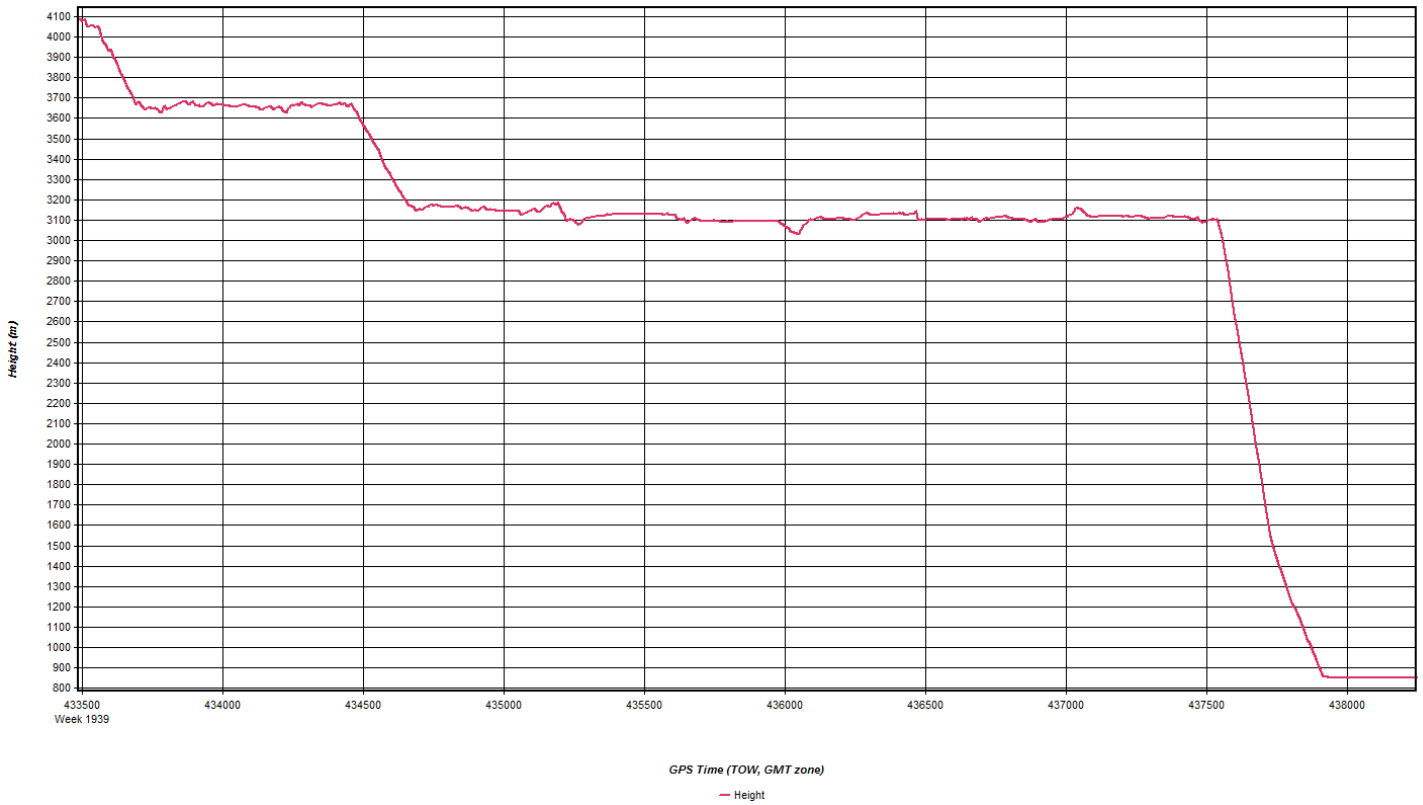
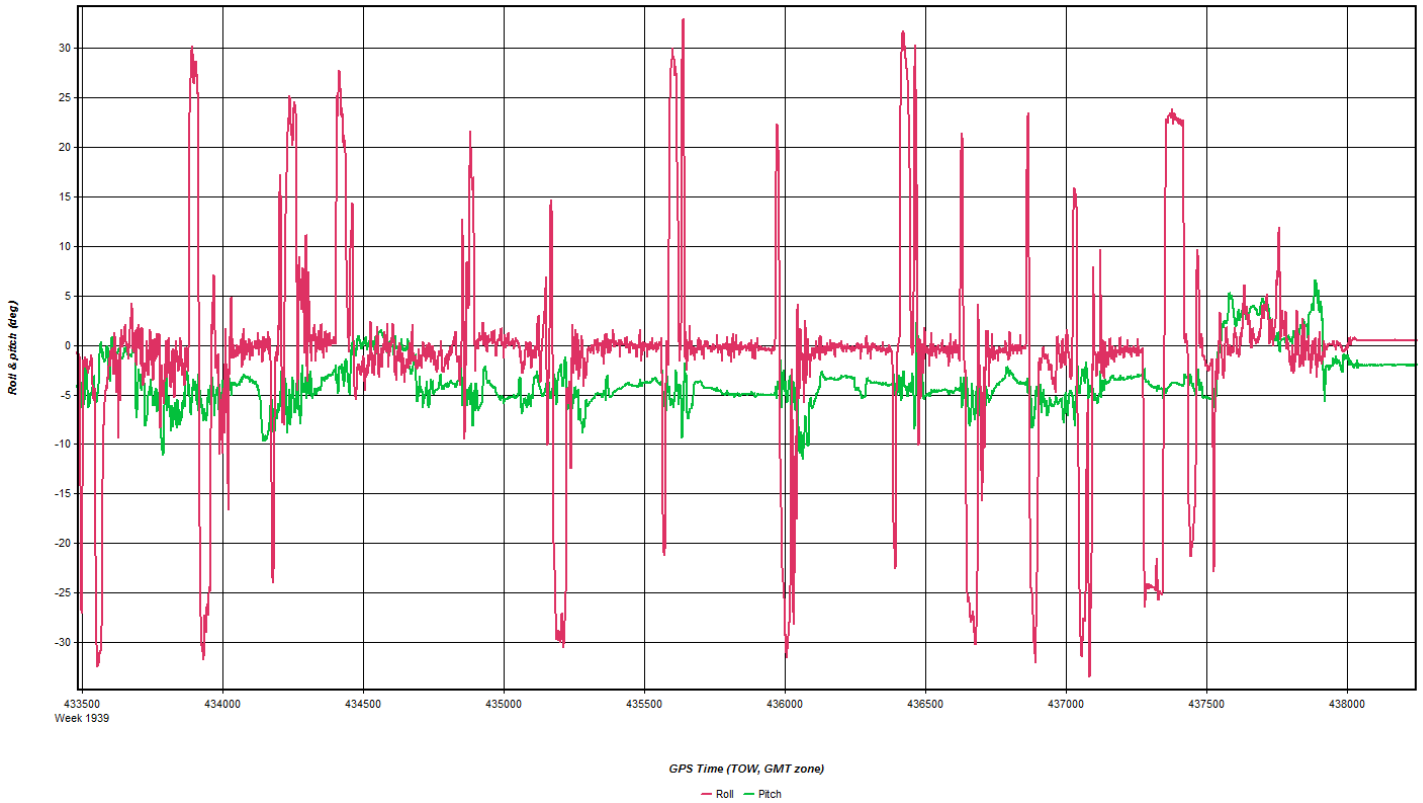


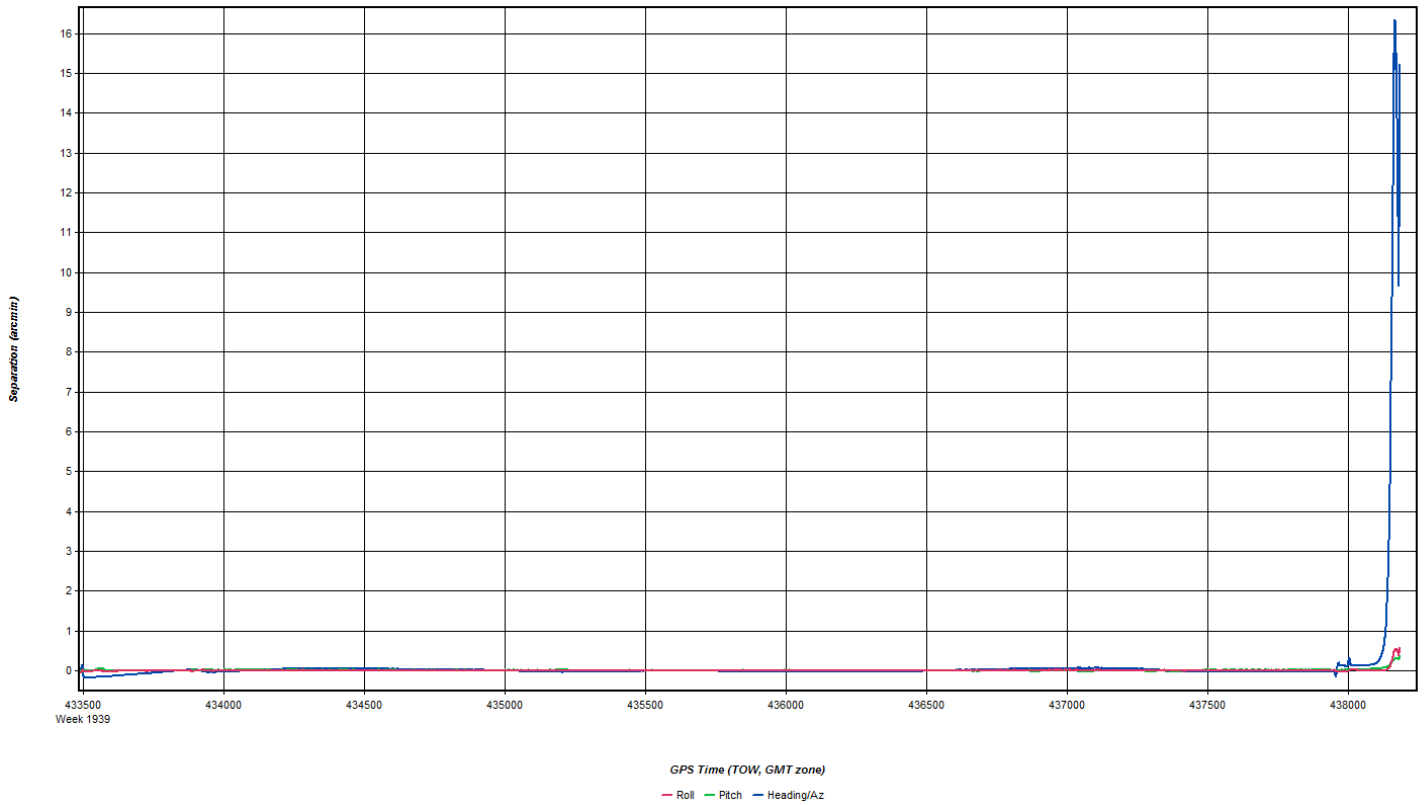
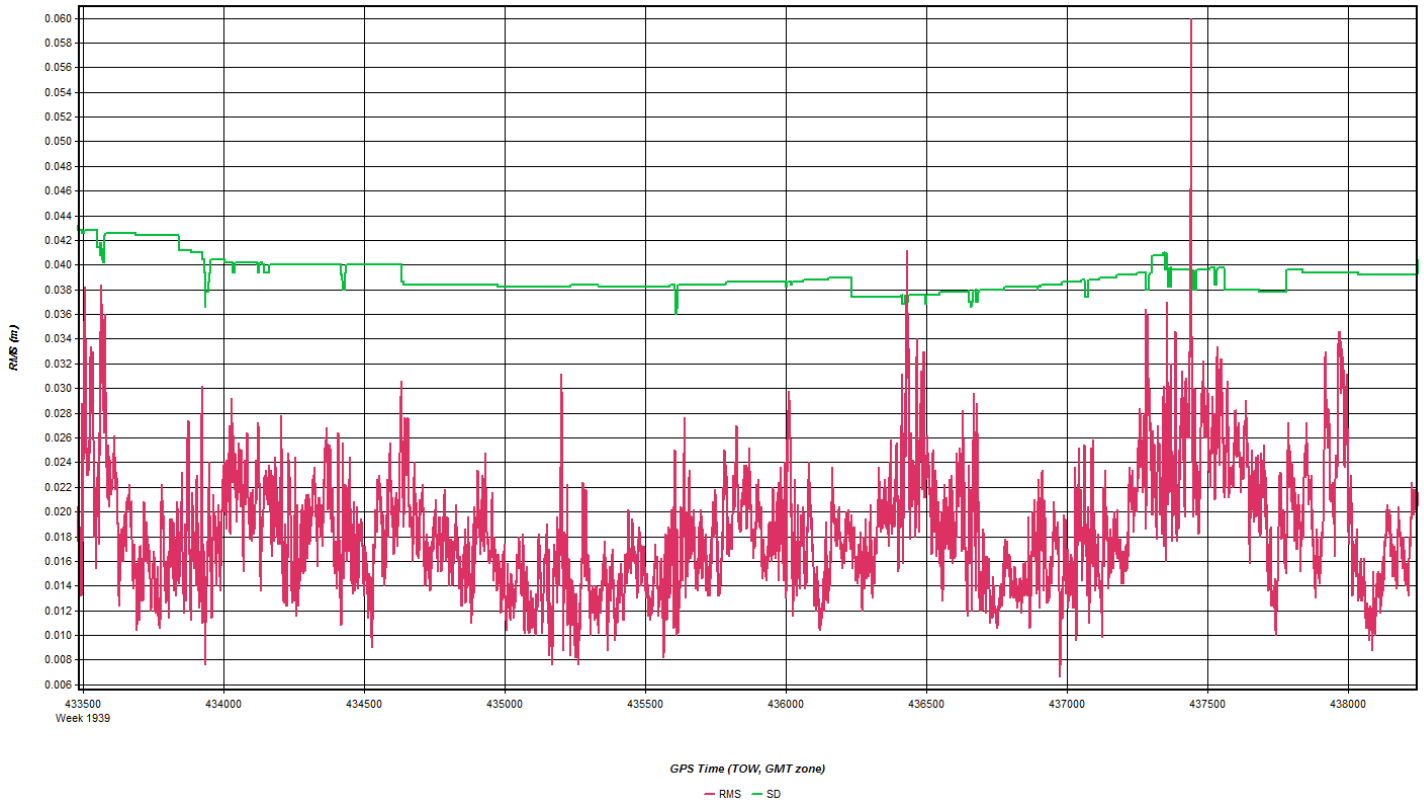
GPS Time (TOW, GMT zone)
— East — North — Up

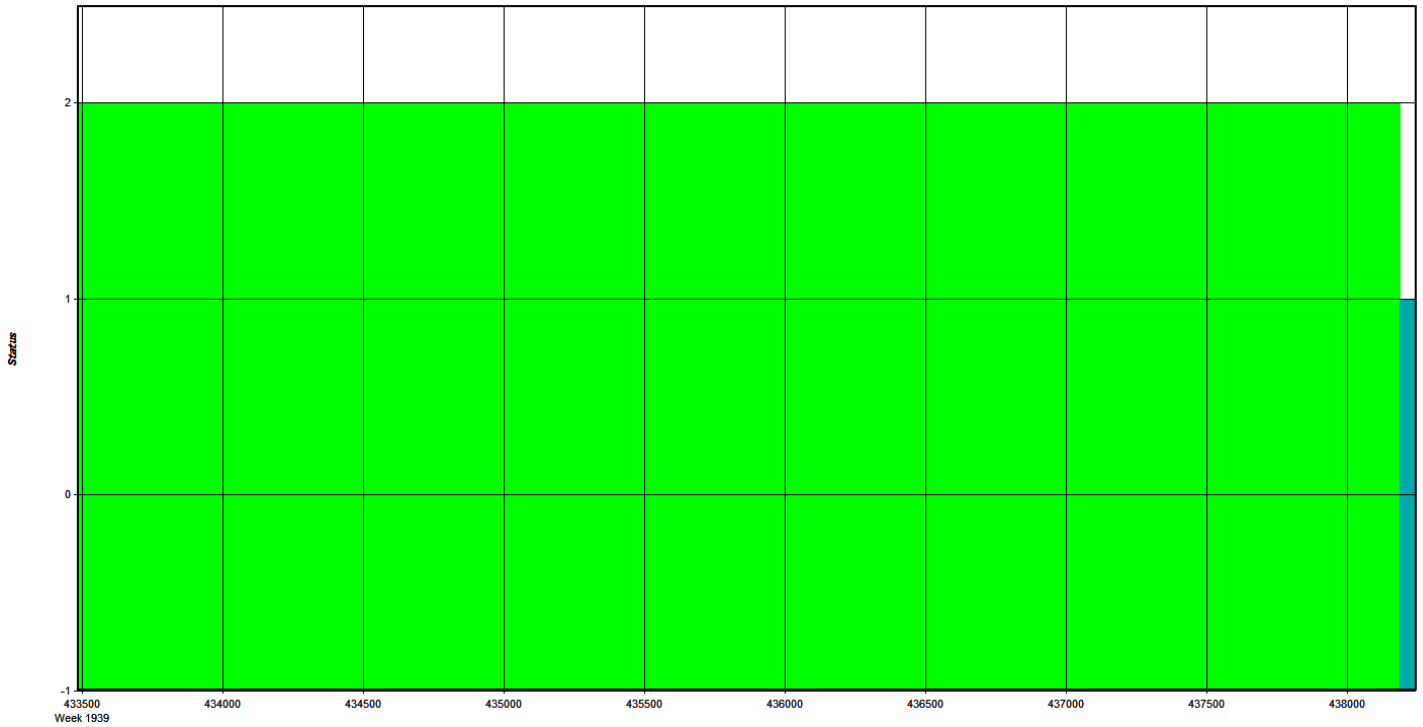


GPS Time (TOW, GMT zone)
— Heading/Azimuth — GPS-COG









GPS Time (TOW, GMT zone)
 - Float - Forward Fixed - Reverse Fixed - Fixed (2 or more)

Coordinate/Antenna Settings

Master Remote

Base Station
 1: UTHN Name: UTHN Disabled
 File: E:\Proc\29083_UTAH\Survey_ftp_4-5-17\Survey\2_Static\JD06i

Coordinates
 Latitude: North 37 11 08.50150 Compute from PPP
 Longitude: West 113 17 55.20863 Enter Grid Values
 Ellipsoidal height: 1013.602 m Enter MSL Height
 Datum: WGS84 Datum Options
 Select From Favorites Add To Favorites Use Average Position

Antenna Height
 From station file: TRM55971.00, NONE View STA File
 Antenna profile: TRM55971.00 Info
 Measured height: 0.000 m
 ARP to L1 offset: 0.067 m
 Applied height: 0.067 m
 Measured to:
 ARP
 L1 Phase Centre
 Compute From Slant

OK Cancel

Flight Log

Date: 3/9/2017	Aircraft: N704MD	Sensor: 8121
Project: Utah 2016 LiDAR		Project #: R029083
Flight Mgmt File: FMSL_WACounty_8121_speed_redux, FMSL_Utah_WACounty_SN8121_reflies		
Pilot: Eric Petersen		Sensor Operator: Jon Frech

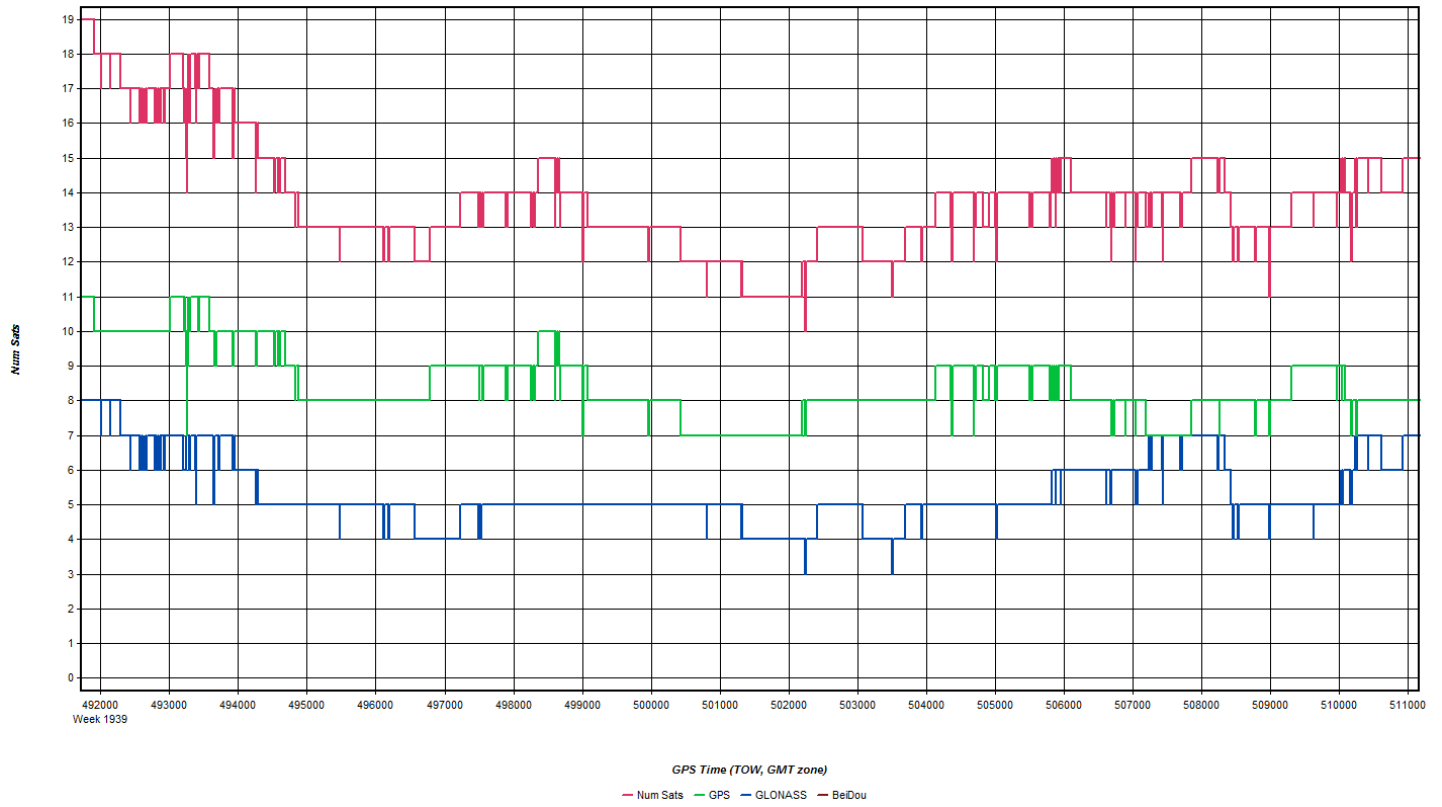
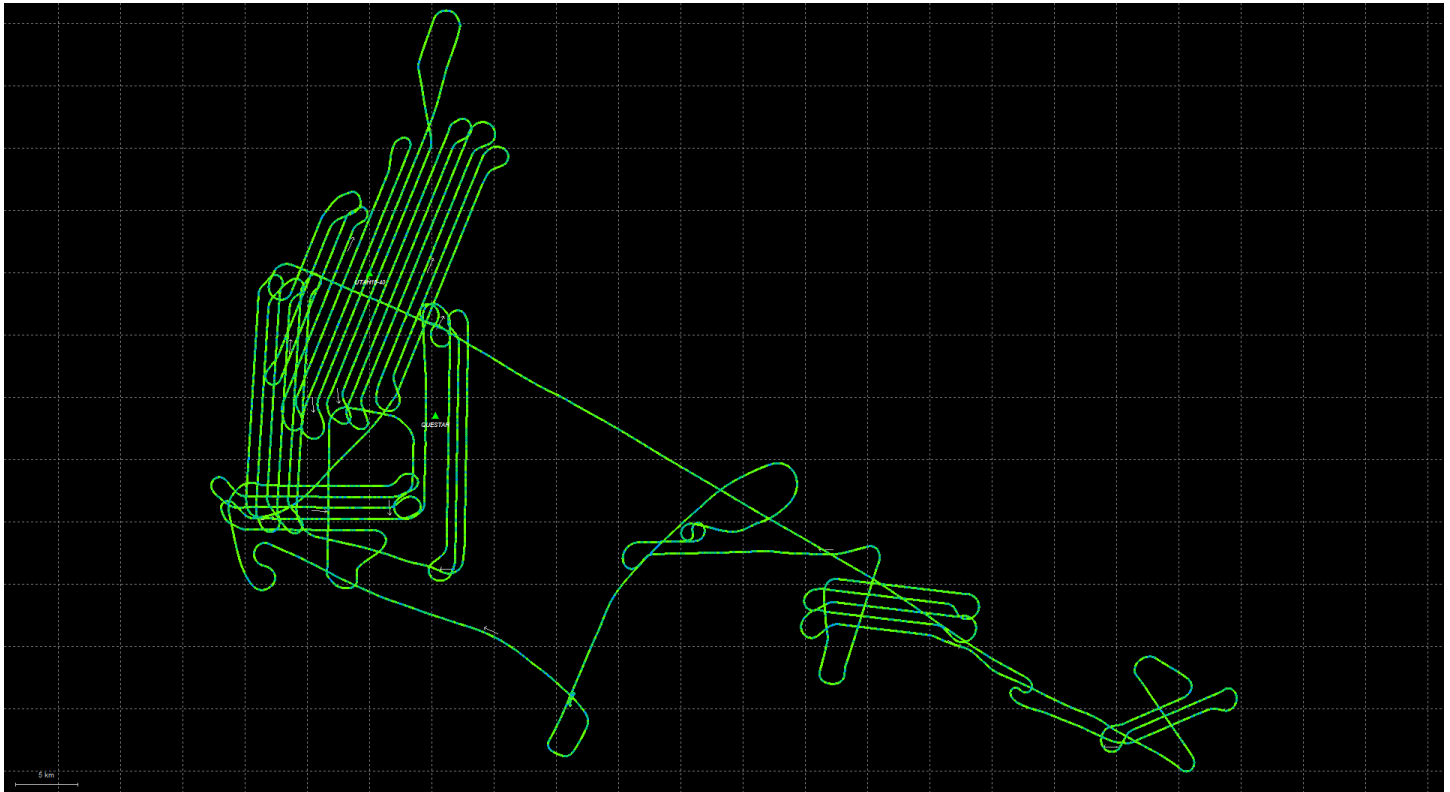
	Flight 1	Flight 2	Flight 3	Flight 4
Wheels Up				
Wheels Down				
Begin Hobbs				
End Hobbs				
On-line Hobbs:			Mob Hobbs:	

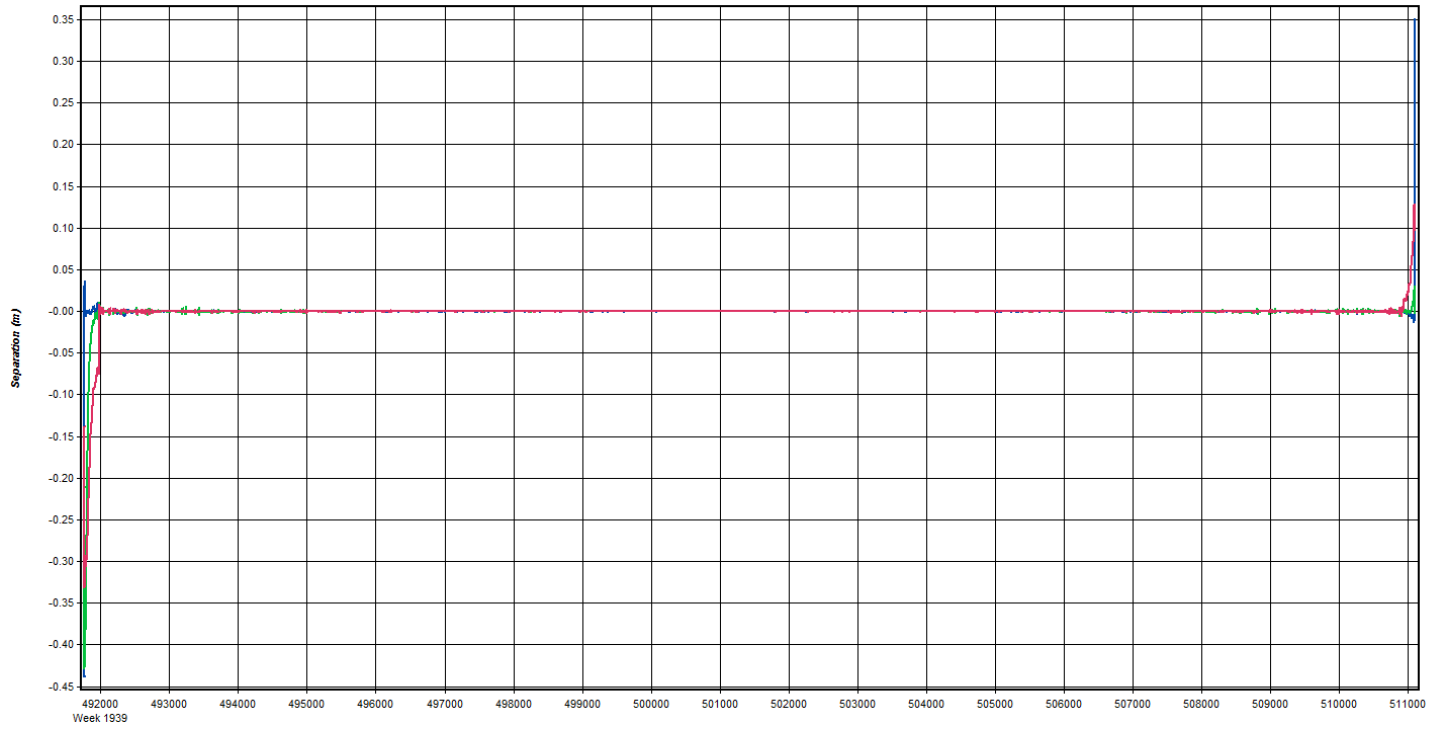
Notes

Flt Mgmt File: FMSL_WACounty_8121_speed_redux, FMSL_Utah_WACounty_SN8121_reflies

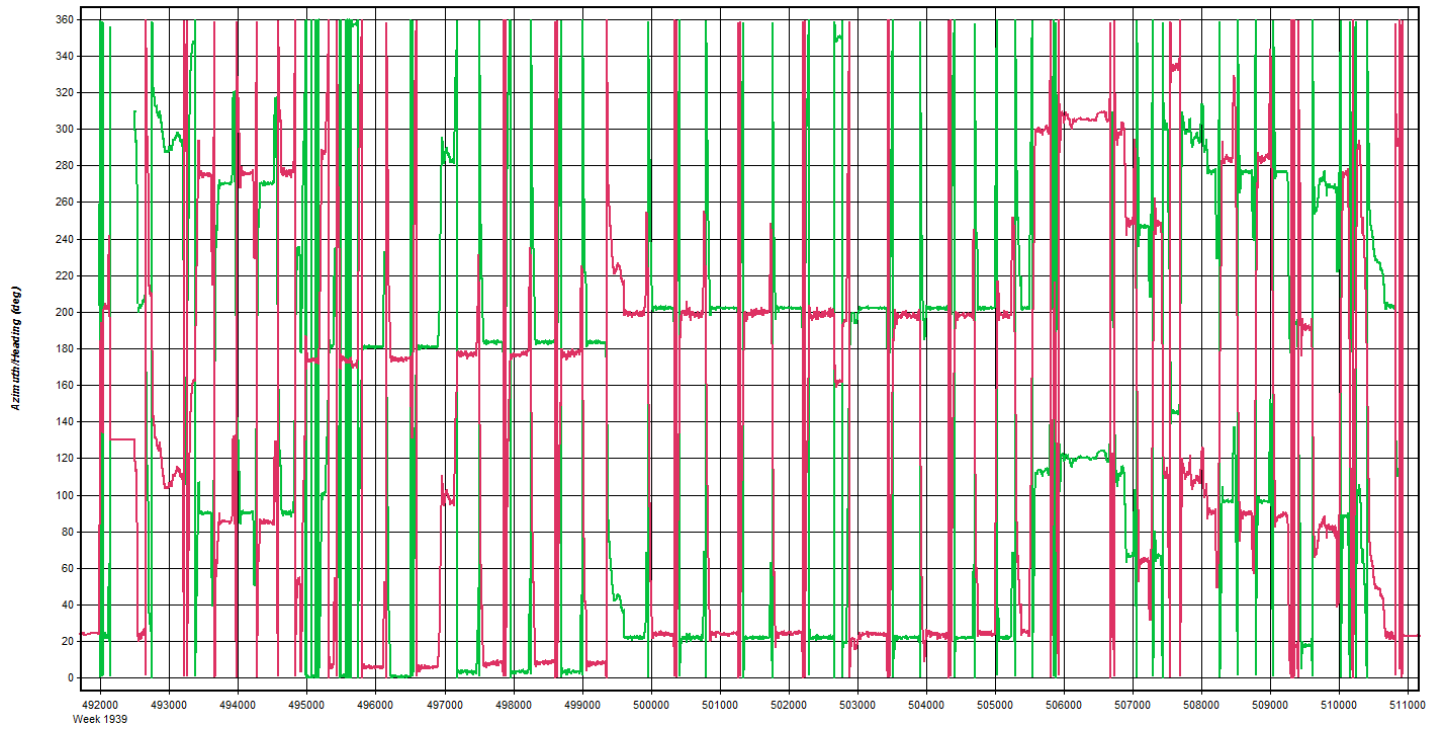
R001	10:58:29 PM	2053.582	11:00:42 PM
R002	11:02:36 PM	2117.344	11:04:44 PM
R003	11:07:23 PM	1988.539	11:09:30 PM
R004	11:11:50 PM	2139.025	11:13:39 PM
R029	11:16:36 PM	2077.911	11:19:00 PM
136	11:23:16 PM	2043.167	11:24:39 PM
135	11:27:42 PM	2044.415	11:31:04 PM
134	11:33:36 PM	1874.095	11:38:26 PM
133	11:40:23 PM	2124.749	11:46:15 PM
132	11:47:54 PM	1948.368	11:53:24 PM
131	11:55:17 PM	2109.124	12:00:59 AM
130	12:02:52 AM	1960.753	12:08:21 AM
111	12:17:45 AM	1961.993	12:19:39 AM

Mar 10, 2017-A (N704MD, SN8121)

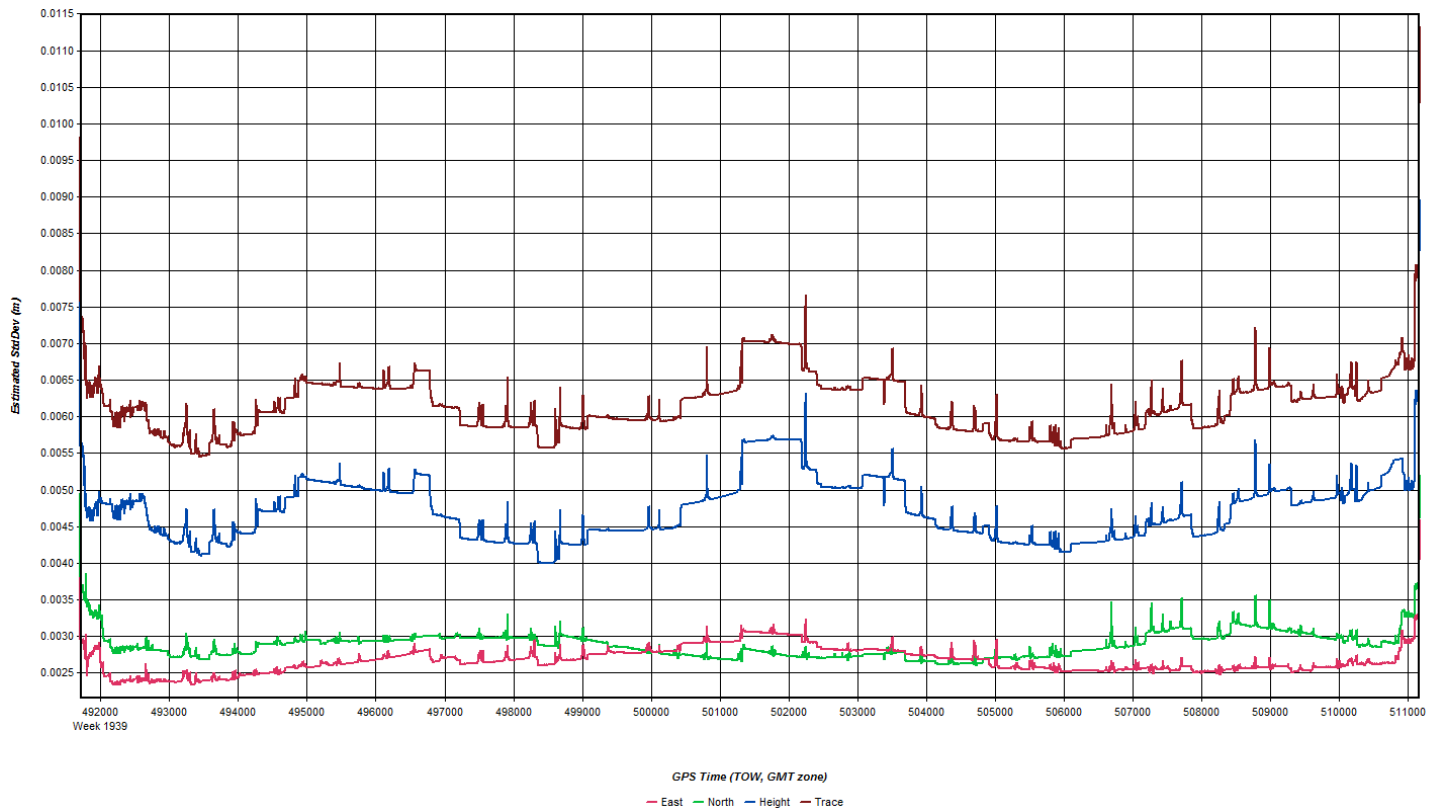
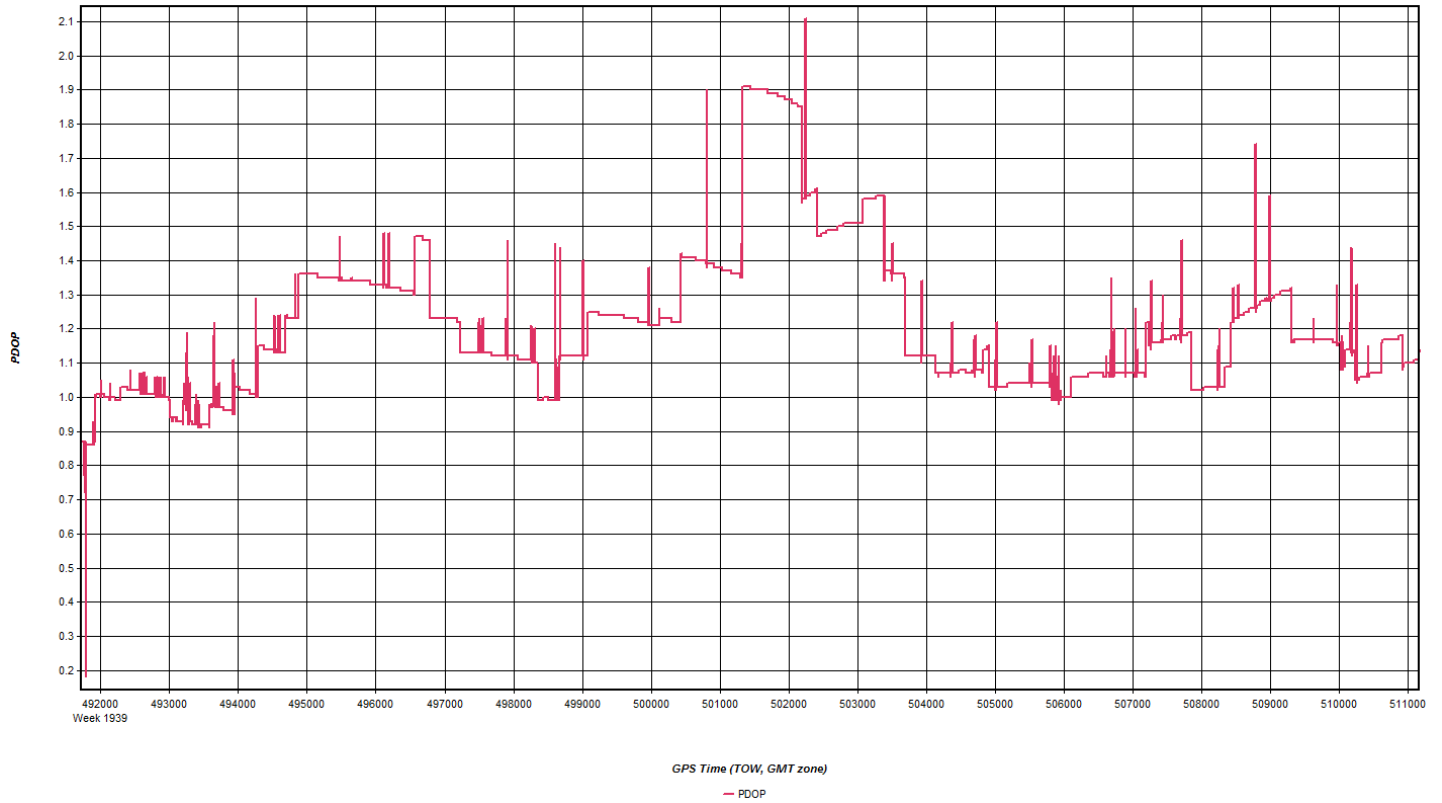


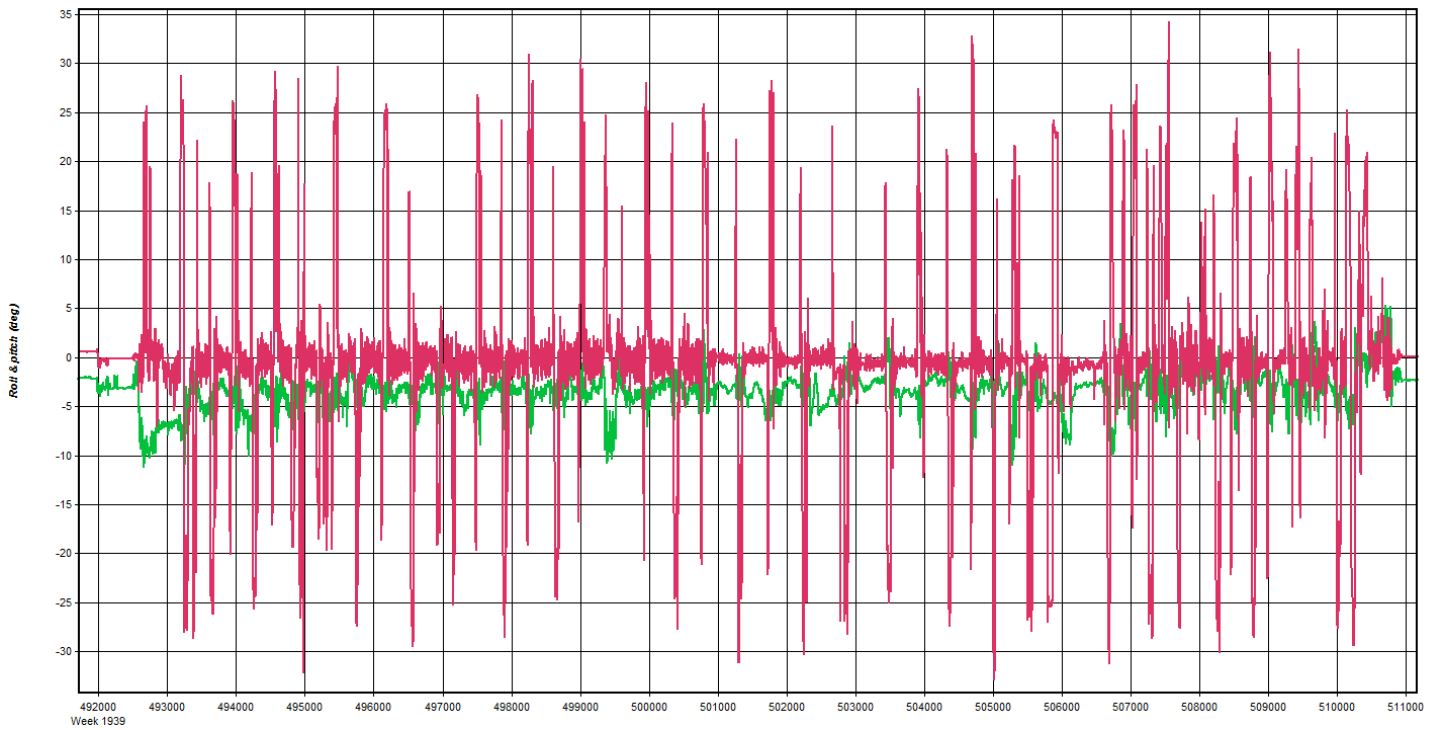


GPS Time (TOW, GMT zone)
— East — North — Up



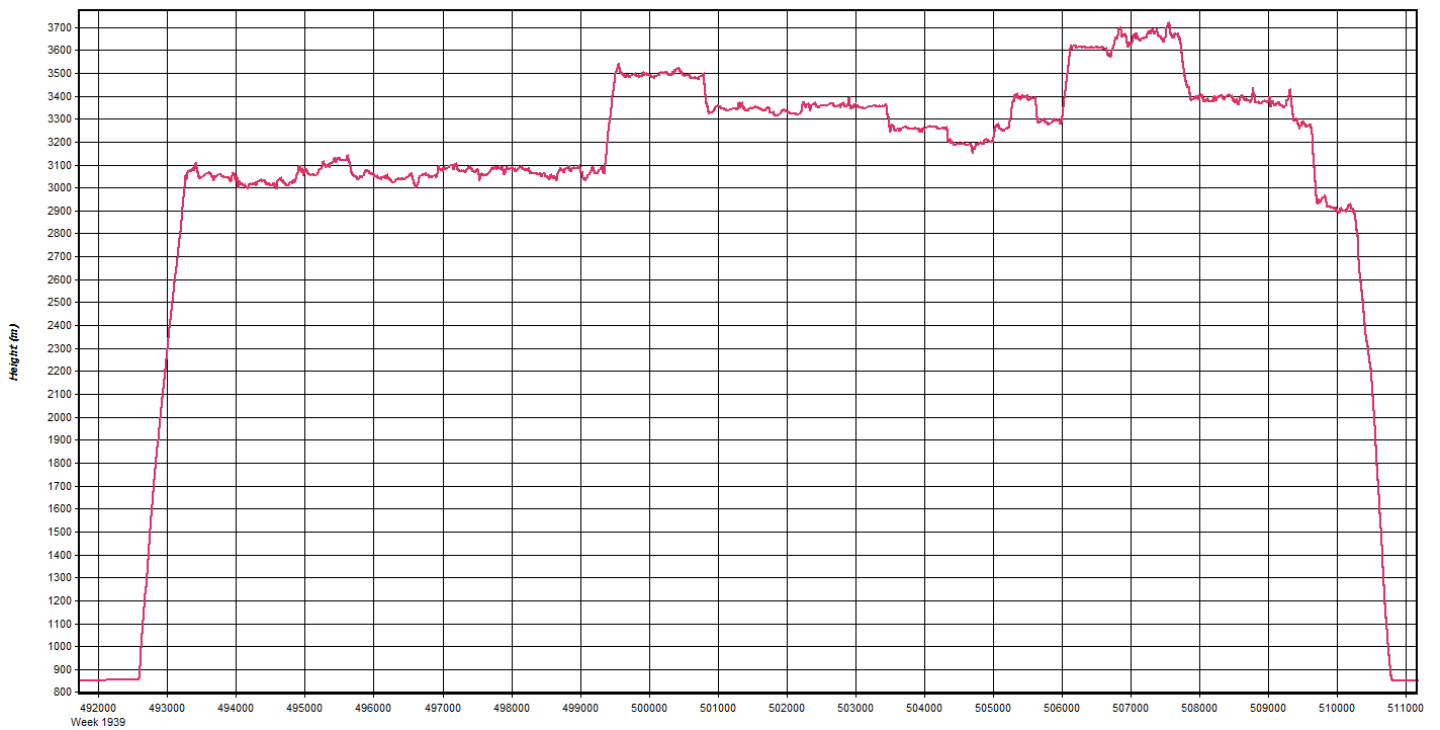
GPS Time (TOW, GMT zone)
— Heading/Azimuth — GPS-COG





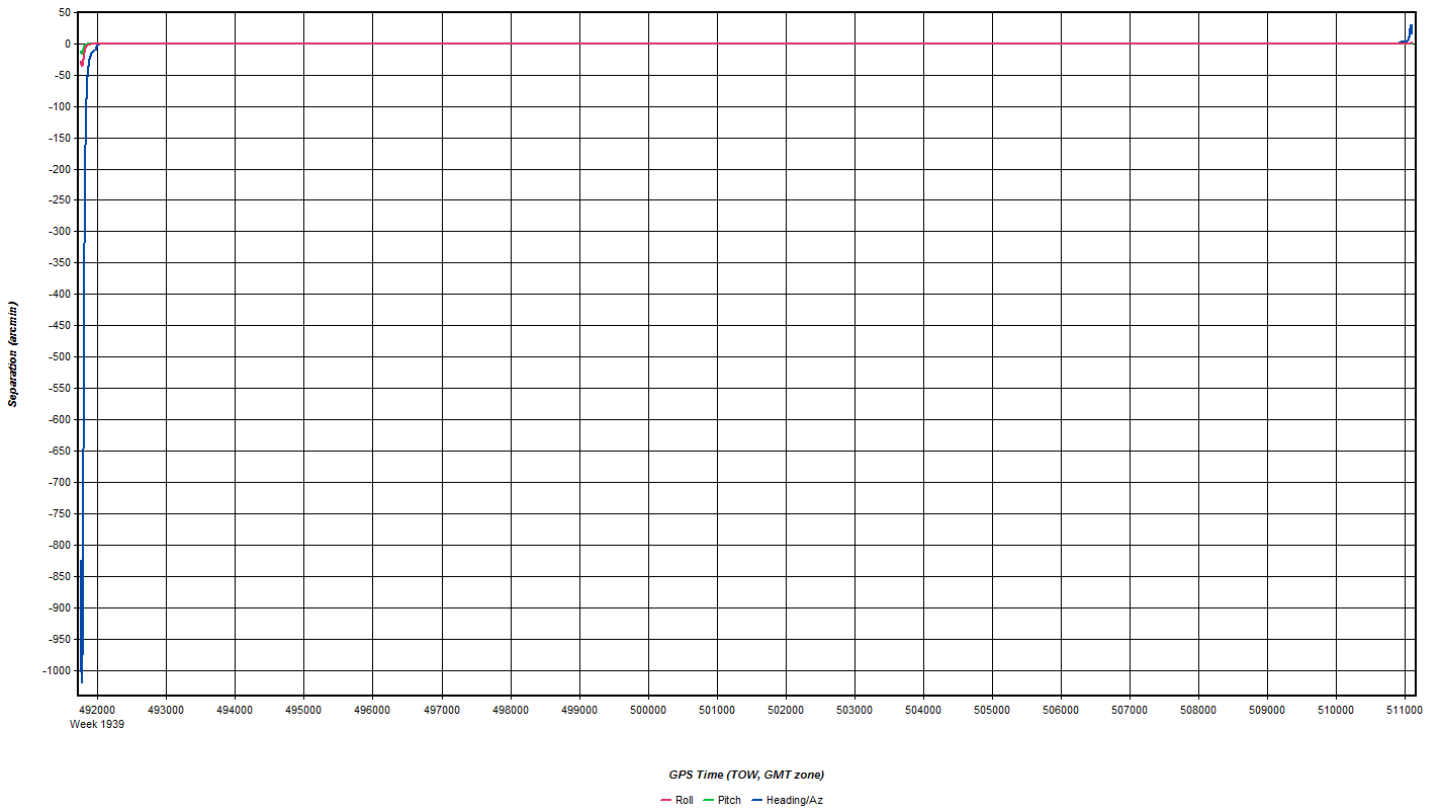
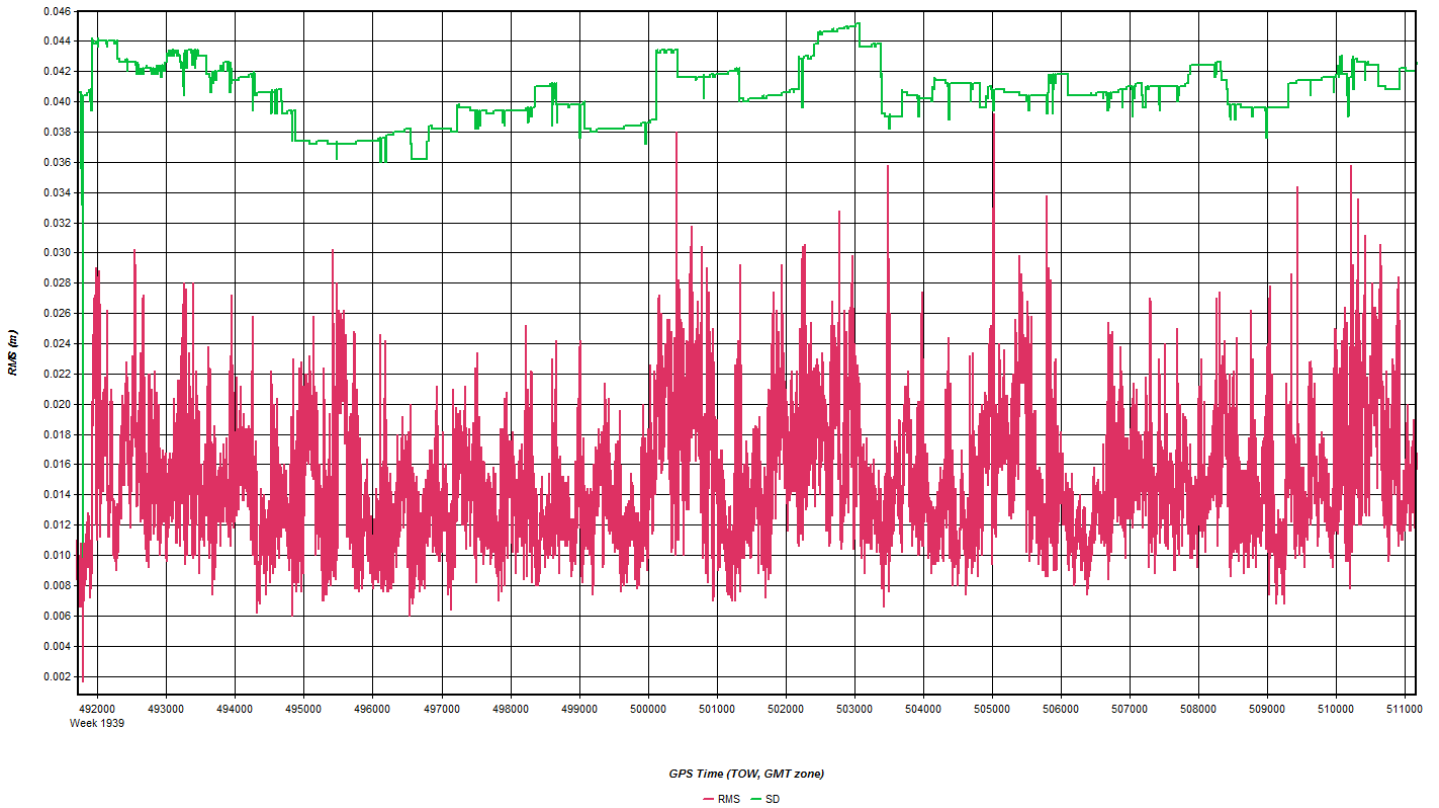
GPS Time (TOW, GMT zone)

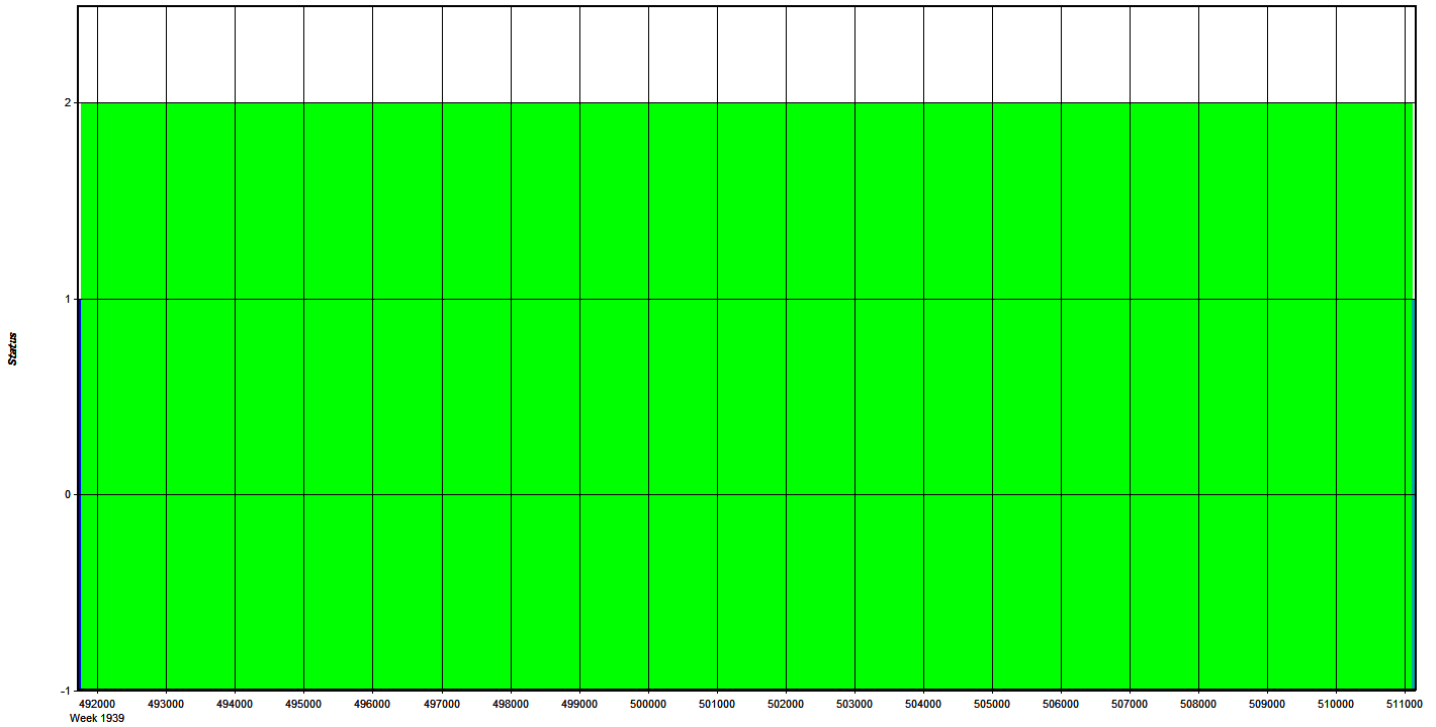
— Roll — Pitch



GPS Time (TOW, GMT zone)

— Height





GPS Time (TOW, GMT zone)
 - Float - Forward Fixed - Reverse Fixed - Fixed (2 or more)

Coordinate/Antenna Settings

Master Remote

Base Station
 2: QUESTAR Name: QUESTAR Disabled
 File: E:\Proc\29083_UTAH\Survey_Rtp_4-4-17\29083_Utah_LiDAR_2

Coordinates
 Latitude: North 37 14 50.52344 Compute from PPP
 Longitude: West 113 37 37.83546 Enter Grid Values
 Ellipsoidal height: 1343.736 m Enter MSL Height
 Datum: WGS84 Datum Options
 Select From Favorites Add To Favorites Use Average Position

Antenna Height
 From station file: TRM55971.00, NONE View STA File
 Antenna profile: TRM55971.00 Info
 Measured height: 1.800 m
 ARP to L1 offset: 0.067 m
 Applied height: 1.867 m
 Measured to:
 ARP
 L1 Phase Centre
 Compute From Slant

OK Cancel

Coordinate/Antenna Settings

Master Remote

Base Station
 1: UTAH16-40 Name: UTAH16-40 Disabled
 File: E:\Proc\29083_UTAH\Survey_Rtp_4-4-17\29083_Utah_LiDAR_2

Coordinates
 Latitude: North 37 20 59.75568 Compute from PPP
 Longitude: West 113 41 14.26397 Enter Grid Values
 Ellipsoidal height: 1395.663 m Enter MSL Height
 Datum: WGS84 Datum Options
 Select From Favorites Add To Favorites Use Average Position

Antenna Height
 From station file: TRM55971.00, NONE View STA File
 Antenna profile: TRM55971.00 Info
 Measured height: 1.800 m
 ARP to L1 offset: 0.067 m
 Applied height: 1.867 m
 Measured to:
 ARP
 L1 Phase Centre
 Compute From Slant

OK Cancel

Flight Log

Date: 3/10/2017	Aircraft: N704MD	Sensor: 8121
Project: Utah 2016 LiDAR		Project #: R029083
Flight Mgmt File: FMSL_WACounty_8121_speed_redux, FMSL_Utah_WACounty_SN8121_reflies		
Pilot: Eric Petersen		Sensor Operator: Jon Frech

	Flight 1	Flight 2	Flight 3	Flight 4
Wheels Up	9:35:00 AM			
Wheels Down	2:55:00 PM			
Begin Hobbs	11724.7			
End Hobbs	11729.7			
On-line Hobbs: 4.3		Mob Hobbs: 0.7		

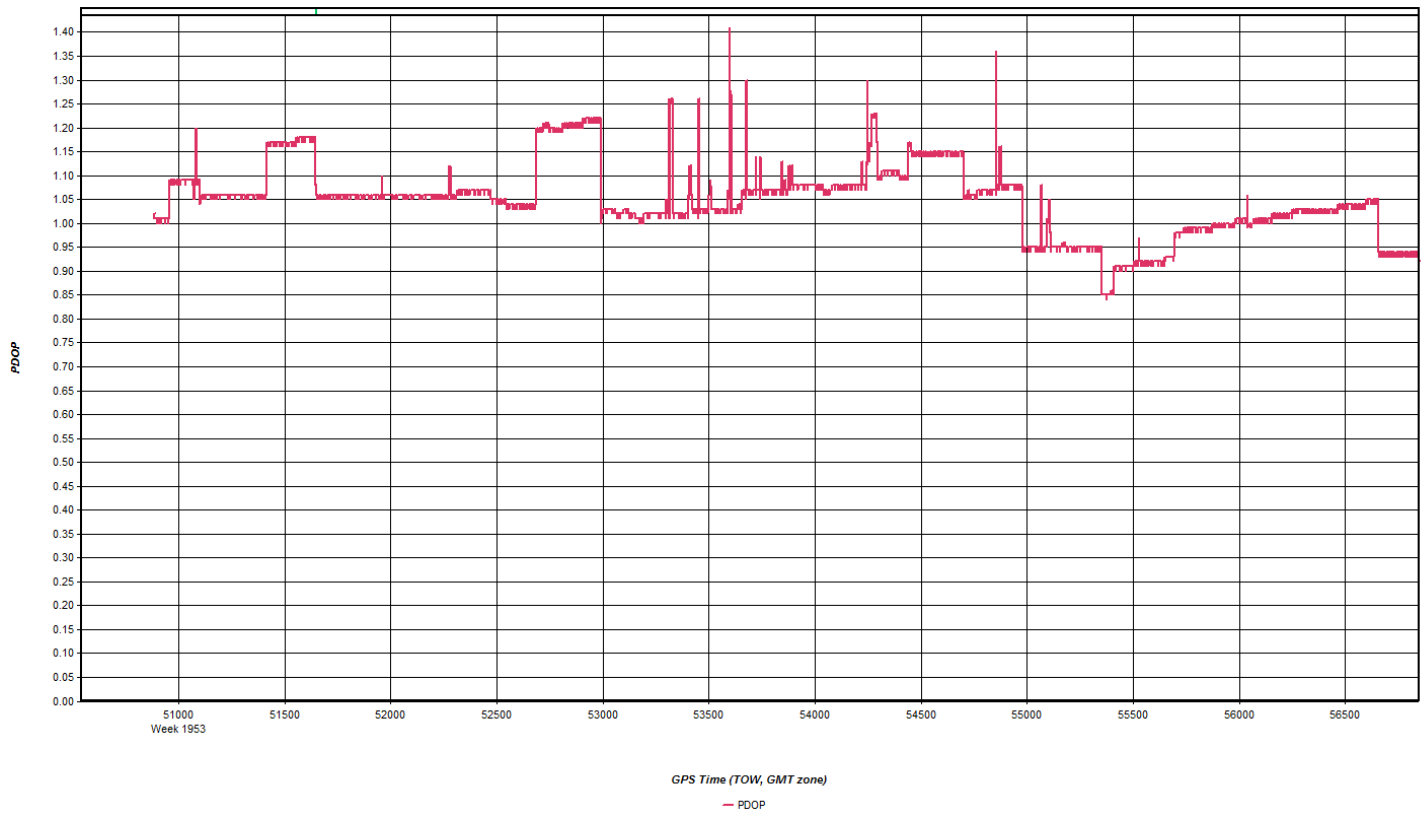
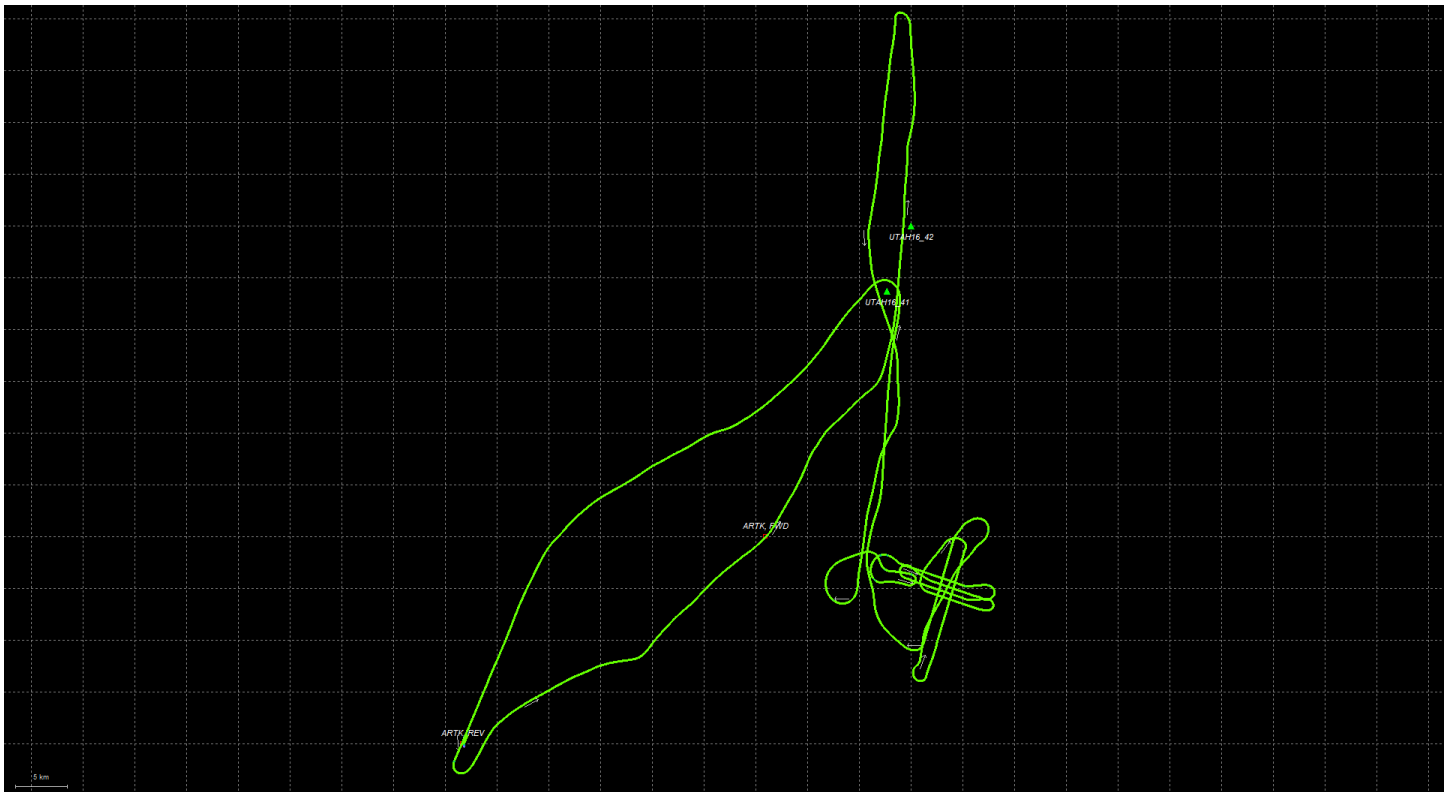
Notes

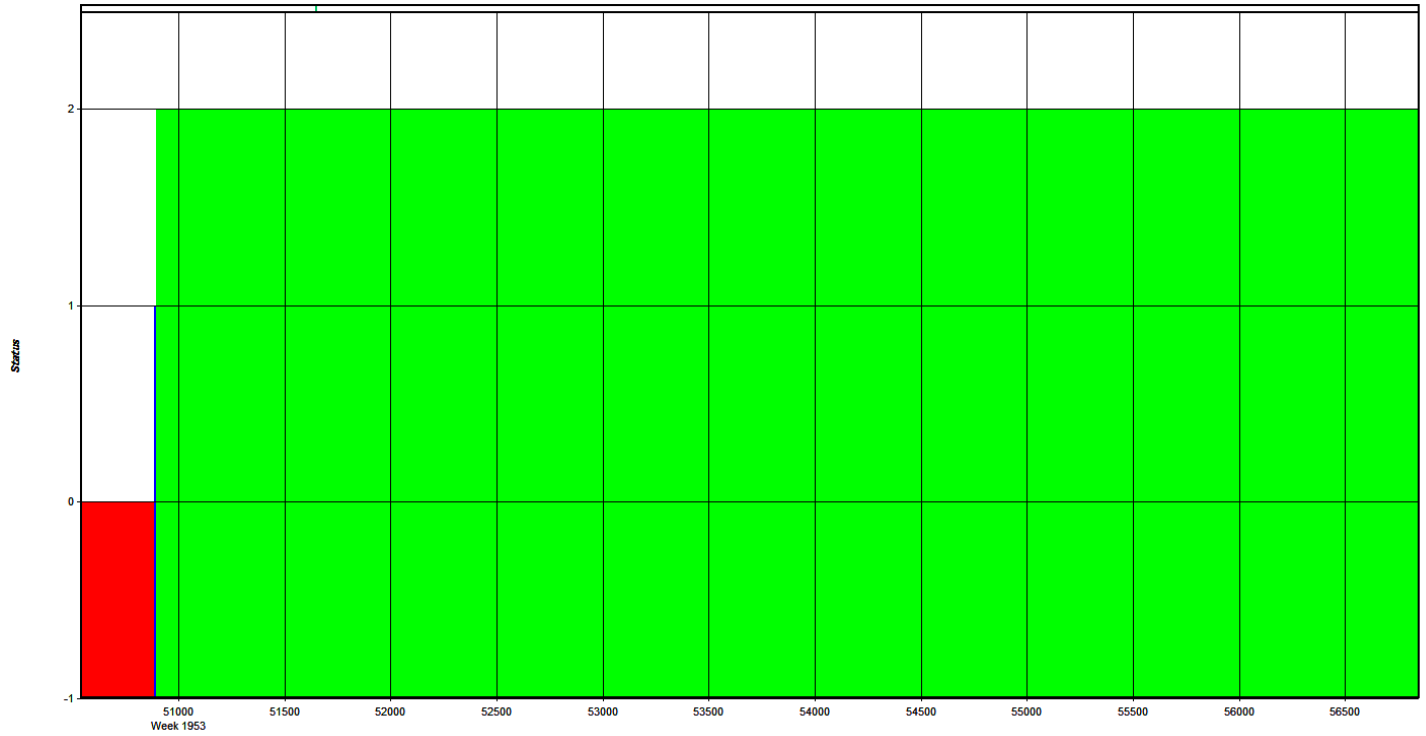
Finished reflies and all snow free areas of washington county

Flt Mgmt File: FMSL_WACounty_8121_speed_redux, FMSL_Utah_
WACounty_SN8121_reflies

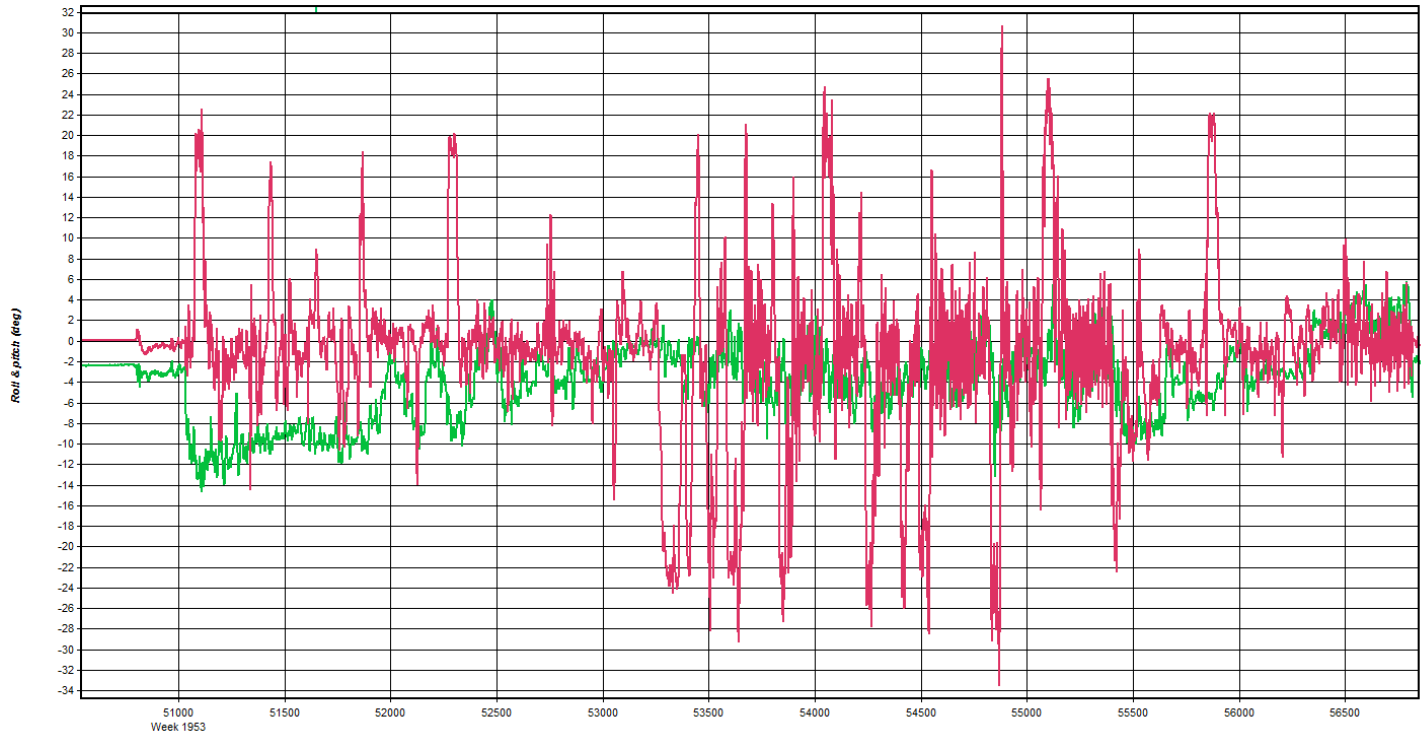
R033	12:35:00 AM	2079.244873	12:35:53 AM
R032	12:38:38 AM	1879.702026	12:39:27 AM
R014	12:48:05 AM	1627.617065	12:50:11 AM
R015	12:54:04 AM	1857.729004	12:59:04 AM
R016	1:00:46 AM	1988.139038	1:05:48 AM
R017	1:07:38 AM	2007.612915	1:12:42 AM
R018	1:14:32 AM	2089.651367	1:16:46 AM
R019	1:18:56 AM	1993.693604	1:20:33 AM
R030	1:24:47 AM	1642.352417	1:27:31 AM

Jun 11, 2017-A (N704MD, SN7161)

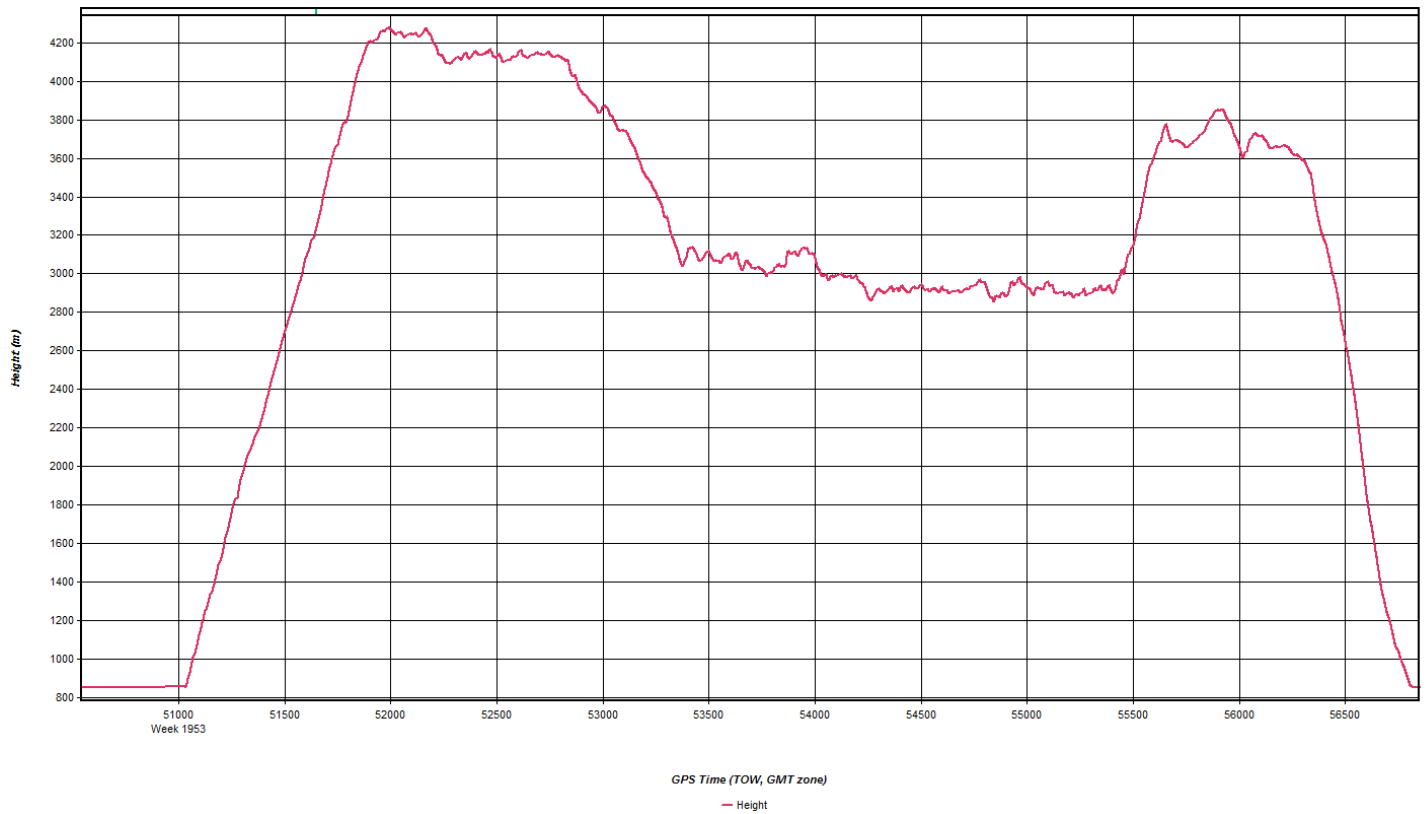


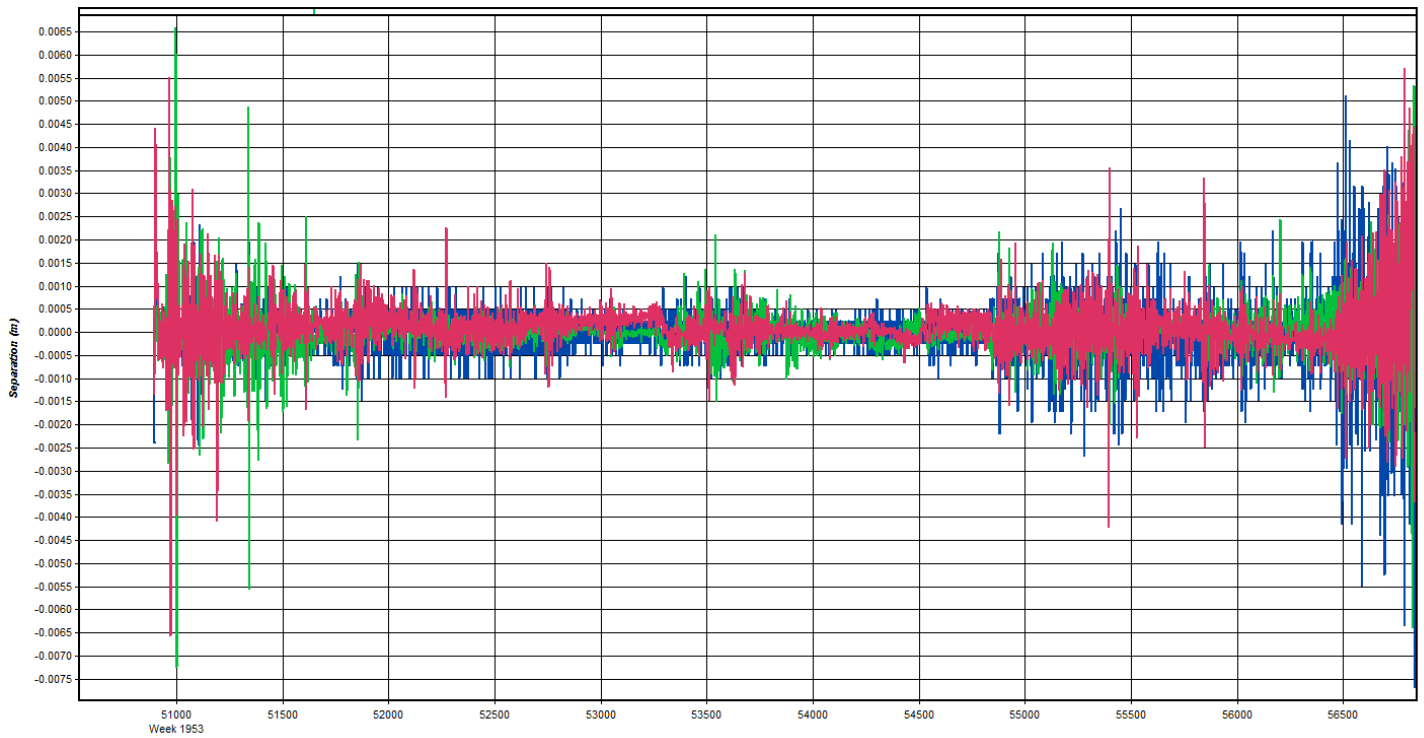
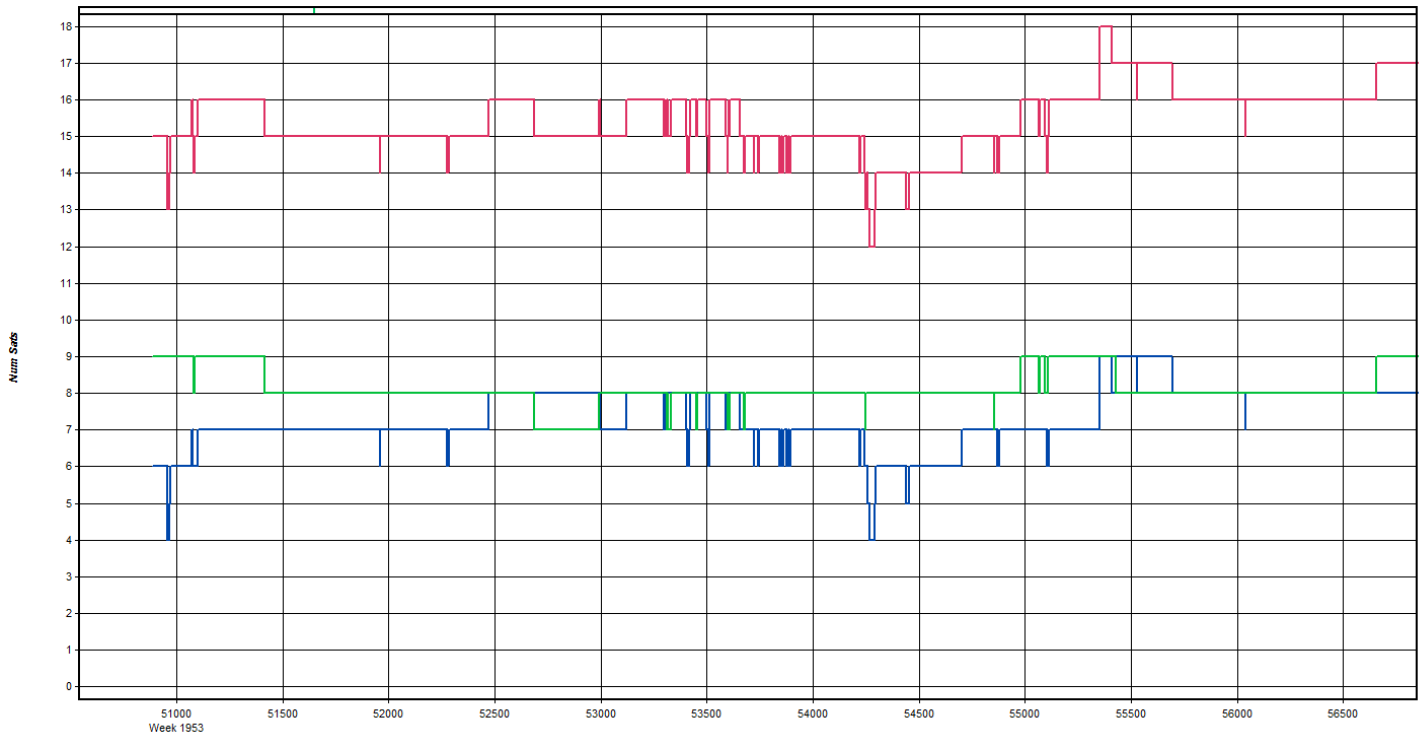


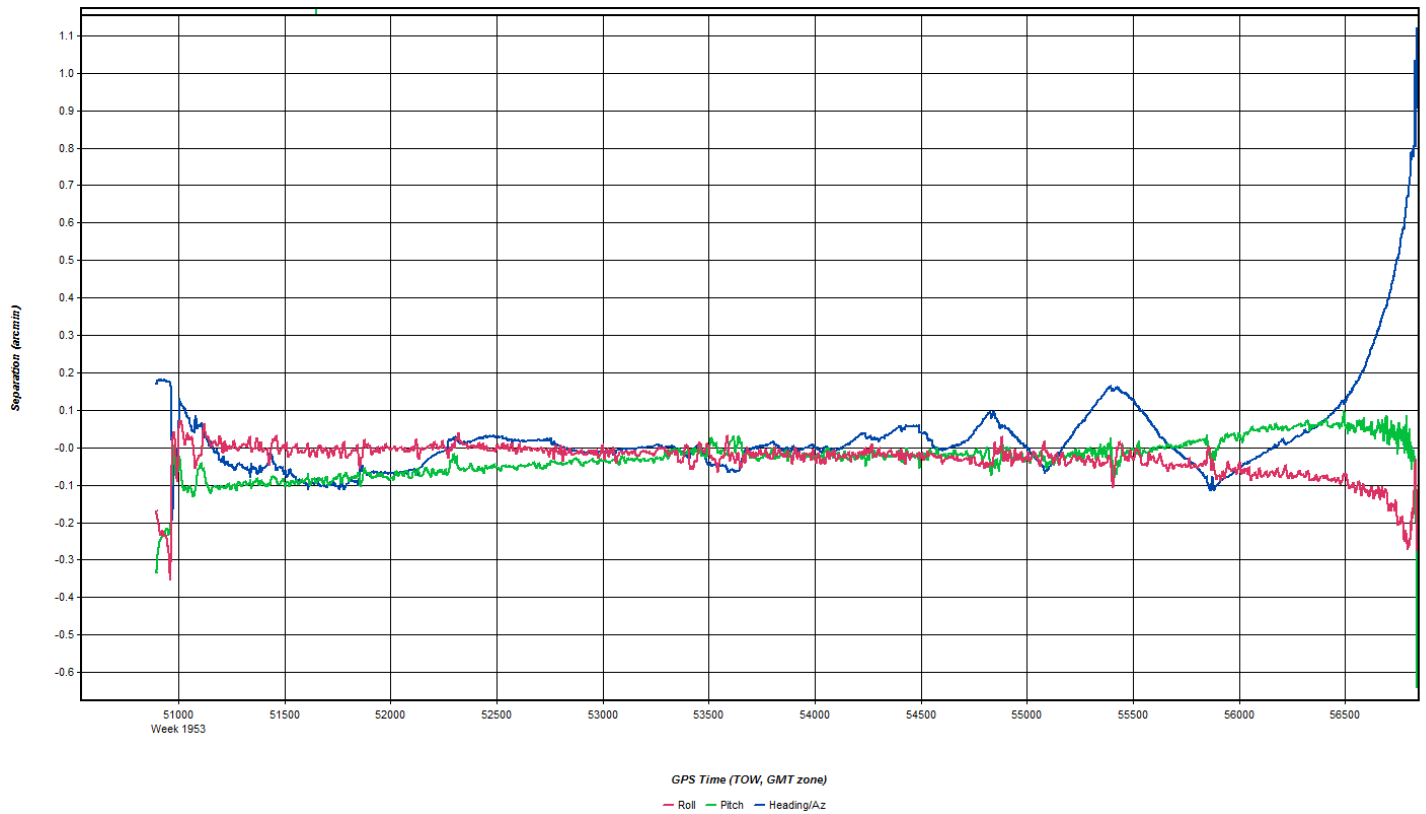
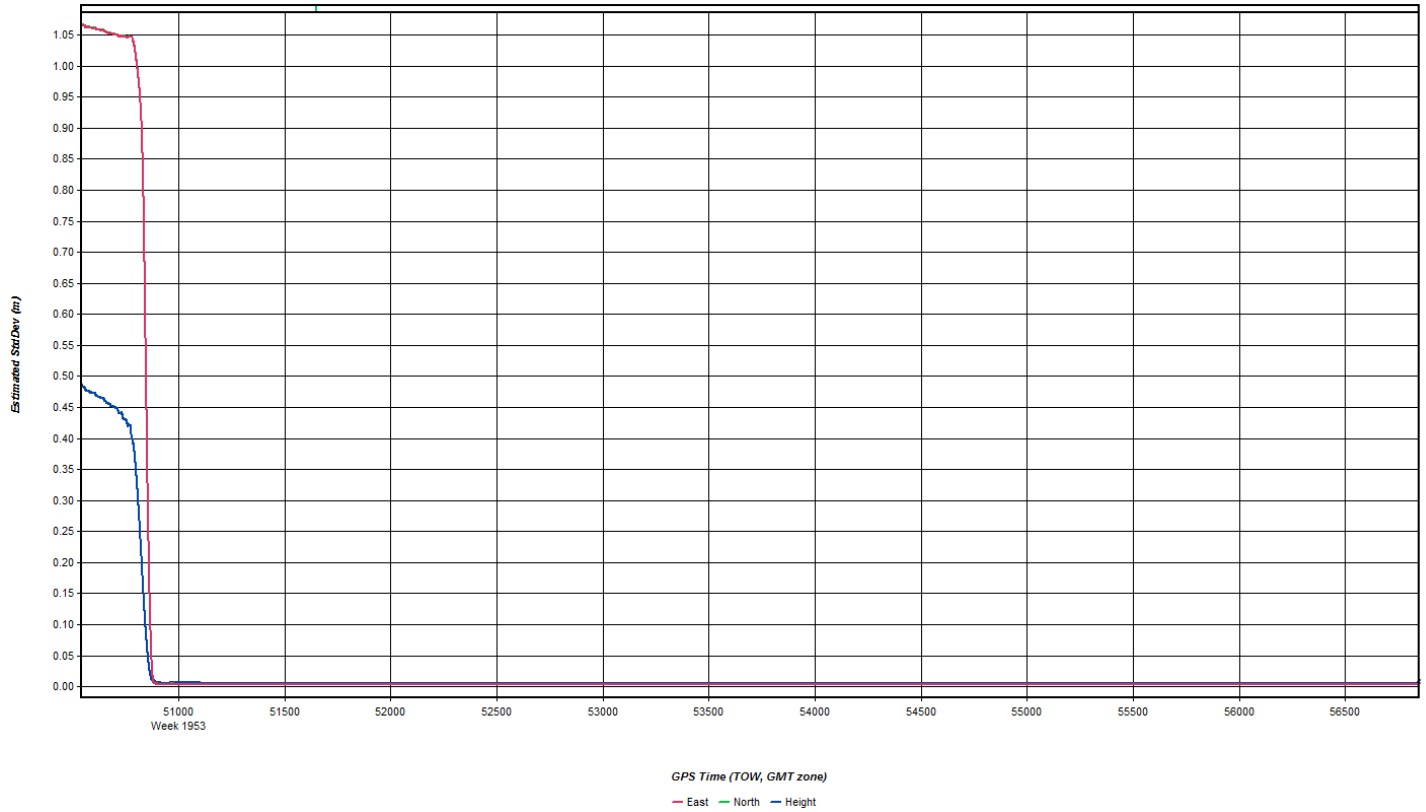
GPS Time (TOW, GMT zone)
— Float — Forward Fixed — Reverse Fixed — Fixed (2 or more)

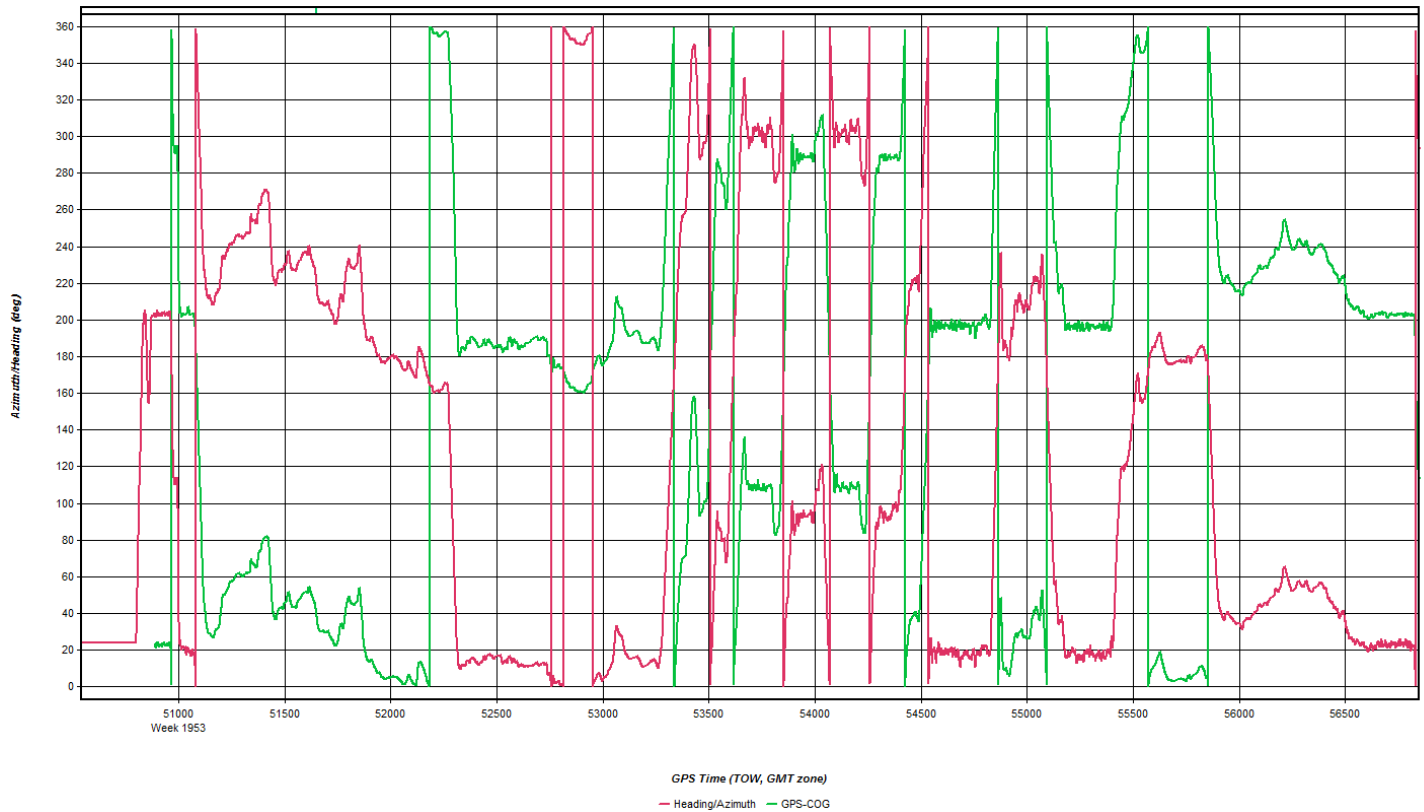


GPS Time (TOW, GMT zone)
— Roll — Pitch









Coordinate/Antenna Settings

Master Remote

Base Station

2: UTAH16_41 Name: UTAH16_41 Disabled

File: E:\Proc\29083_Utah\29803_Utah_2016\Survey_6-16-17\JD162_7\

Coordinates

Latitude: North 37 25 55.88333 Coord. options

Longitude: West 113 02 40.16813 Save to Favorites

Ellipsoidal height: 2461.055 m

Datum: WGS84 Proc Datum: WGS84

Epoch: year

Antenna Height

From station file: TRM55971.00 View STA File

Antenna profile: TRM55971.00 Info

Measured height: 2.000 m

ARP to L1 offset: 0.067 m

Applied height: 2.067 m

Measured to

ARP

L1 Phase Centre

Compute From Slant

OK Cancel

Coordinate/Antenna Settings ? X

Master Remote

Base Station

1: UTAH16_42 Name: UTAH16_42 Disabled

File: E:\Proc\29083_Utah\29803_Utah_2016\Survey_6-16-17\JD162_7\

Coordinates

Latitude: North 37 29 17.88107 Coord. options

Longitude: West 113 01 08.69475 Save to Favorites

Ellipsoidal height: 2797.040 m

Datum: WGS84 Proc Datum: WGS84

Epoch: year

Antenna Height

From station file: TRM55971.00 View STA File

Antenna profile: TRM55971.00 Info

Measured height: 2.000 m

ARP to L1 offset: 0.067 m

Applied height: 2.067 m

Measured to

ARP

L1 Phase Centre

Compute From Slant

OK Cancel

Flight Log

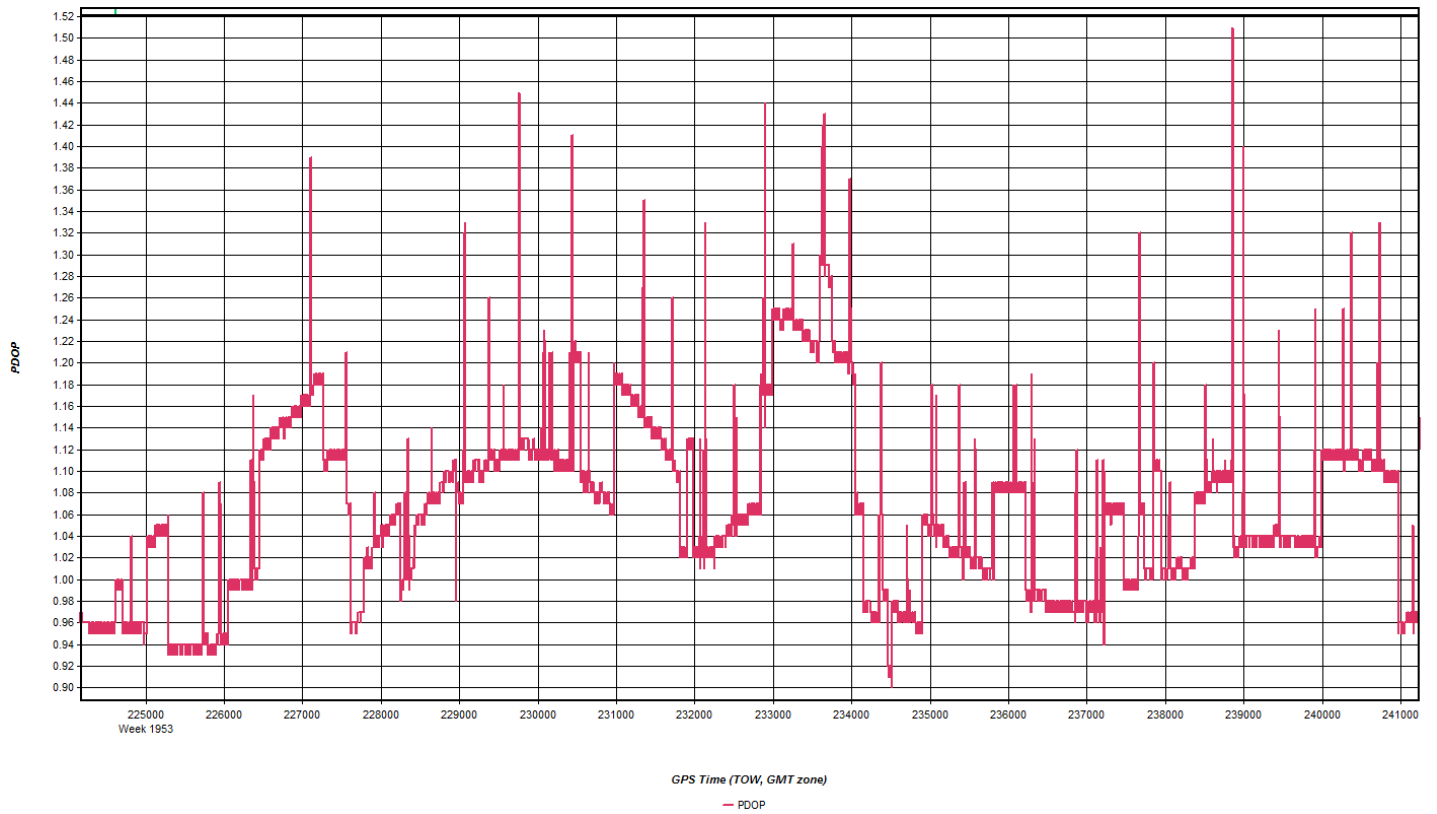
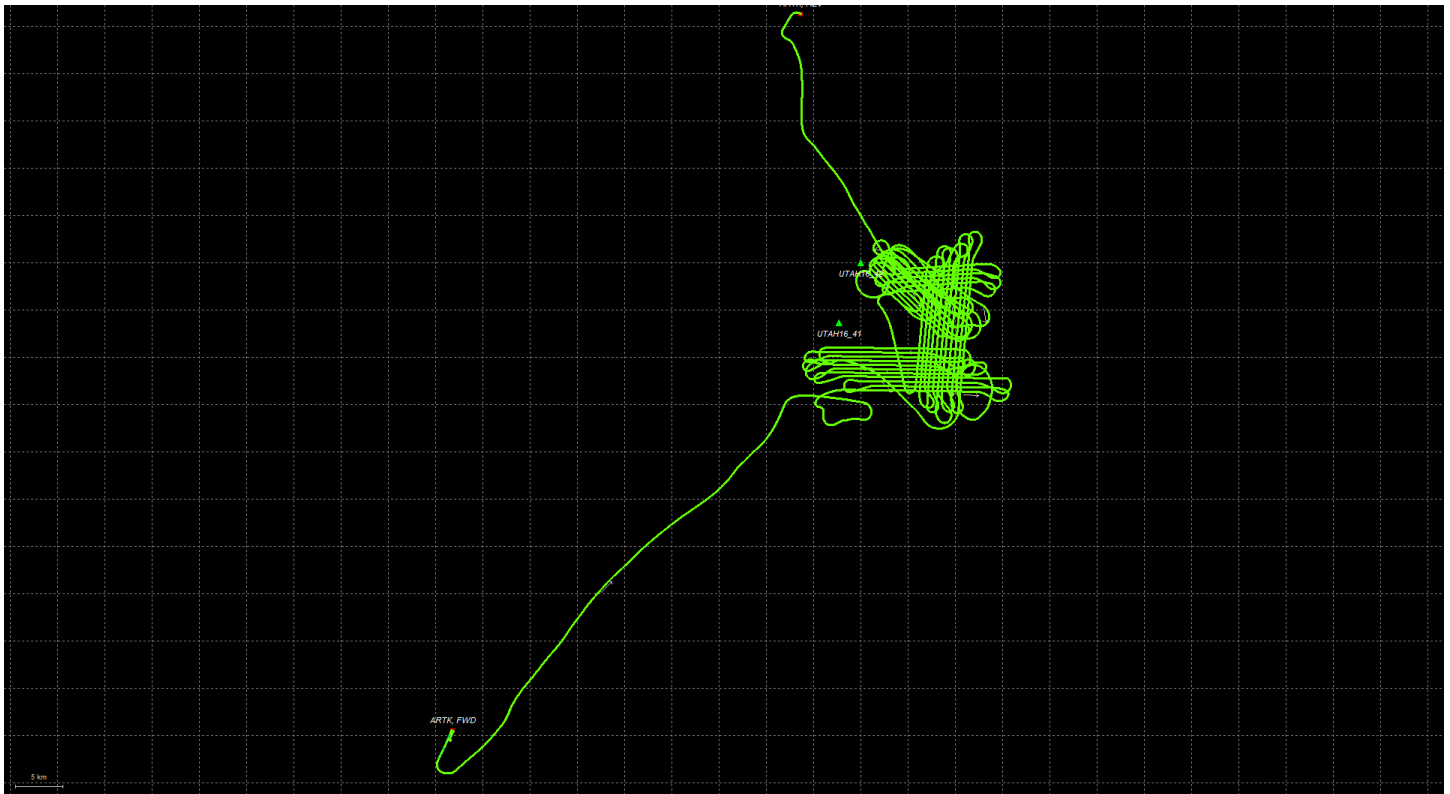
Date: 6/11/2017	Aircraft: N704MD	Sensor: 7161
Project: Utah 2016 LiDAR		Project #: R029083
Flight Mgmt File: FMSL_SN7161_WACounty		
Pilot: Dave Wagner		Sensor Operator: Aaron Mallon

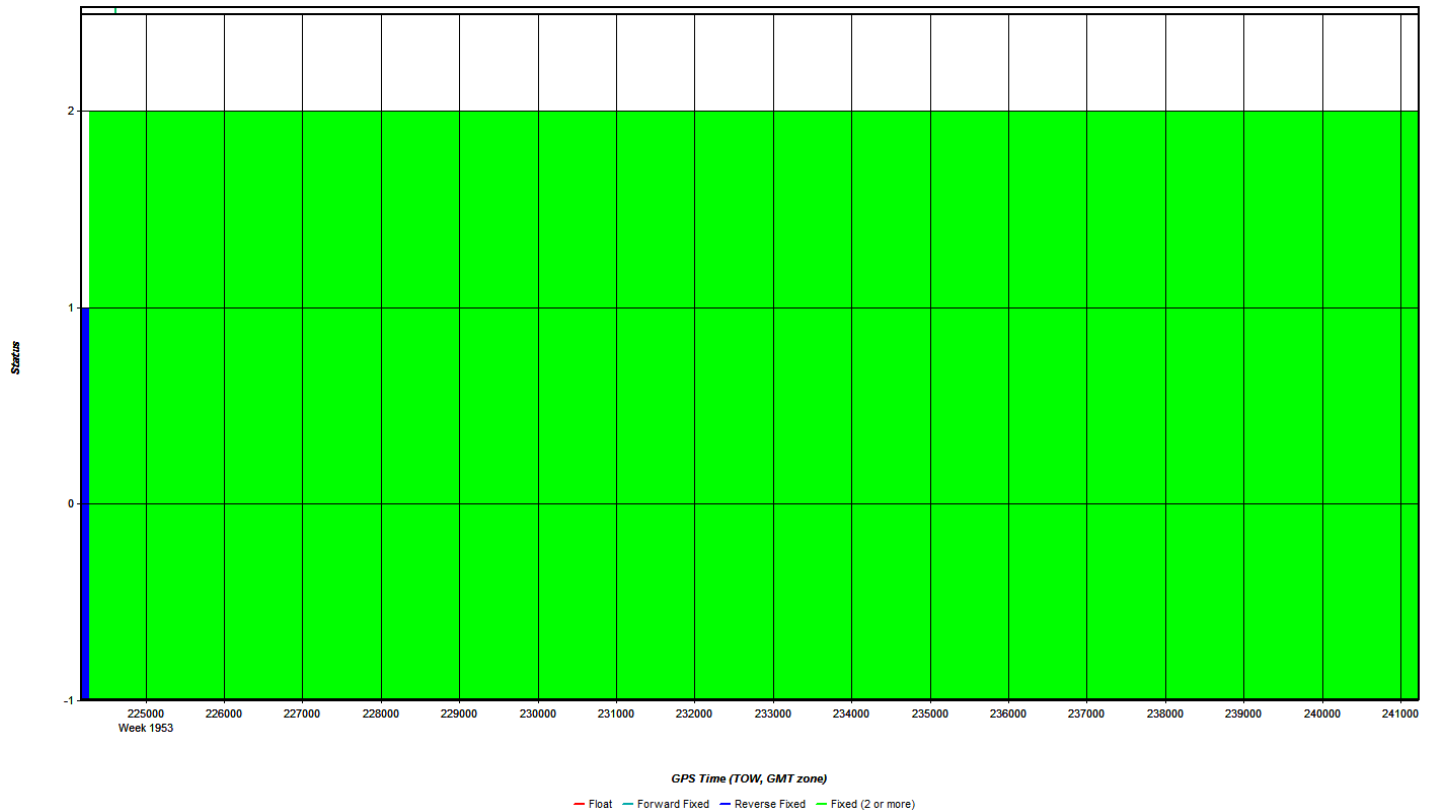
	Flight 1	Flight 2	Flight 3	Flight 4
Wheels Up	8:10:00 AM			
Wheels Down	9:45:00 AM			
Begin Hobbs	11882.5			
End Hobbs	11884.1			
On-line Hobbs: 0.5		Mob Hobbs: 1.1		

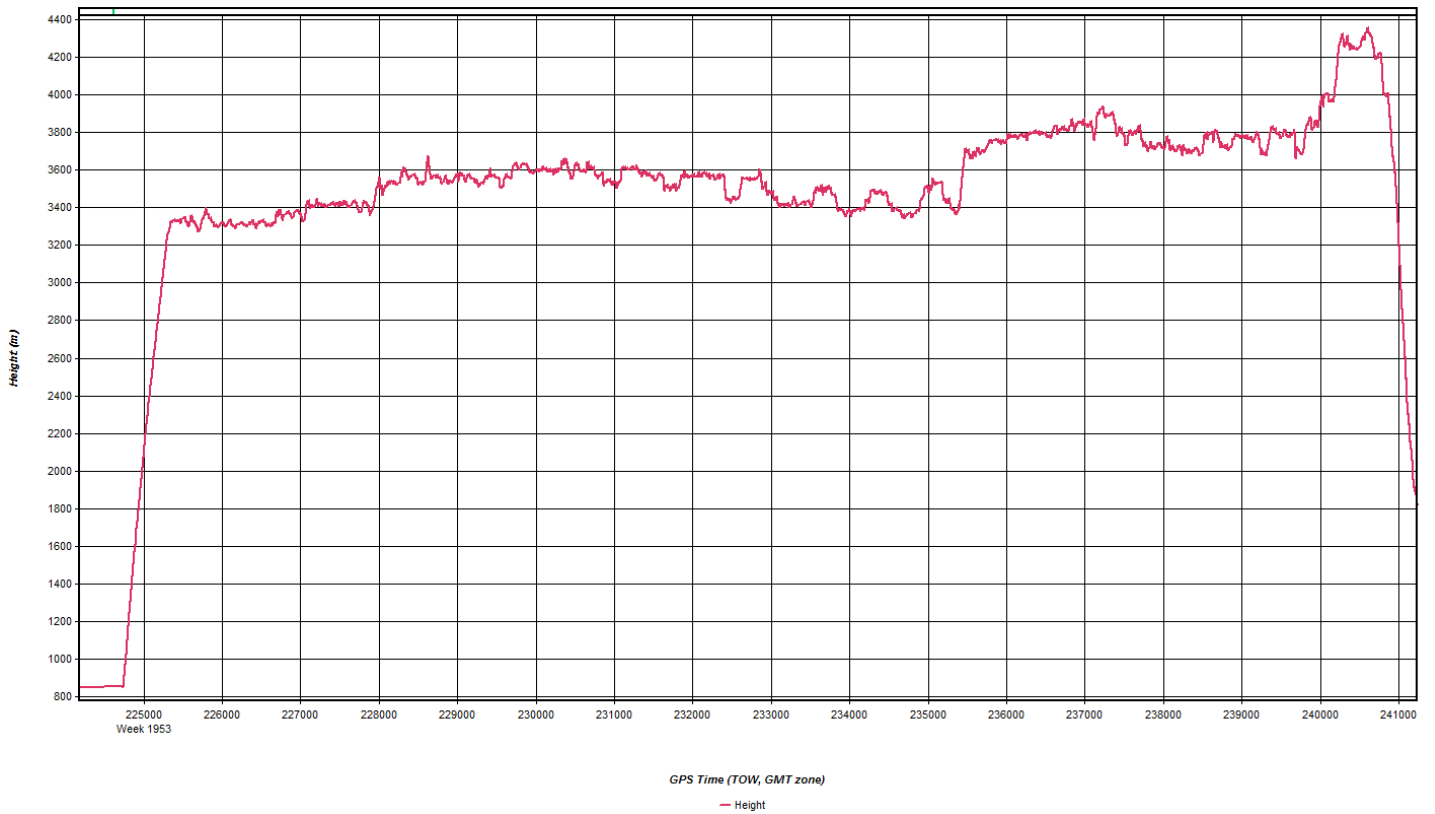
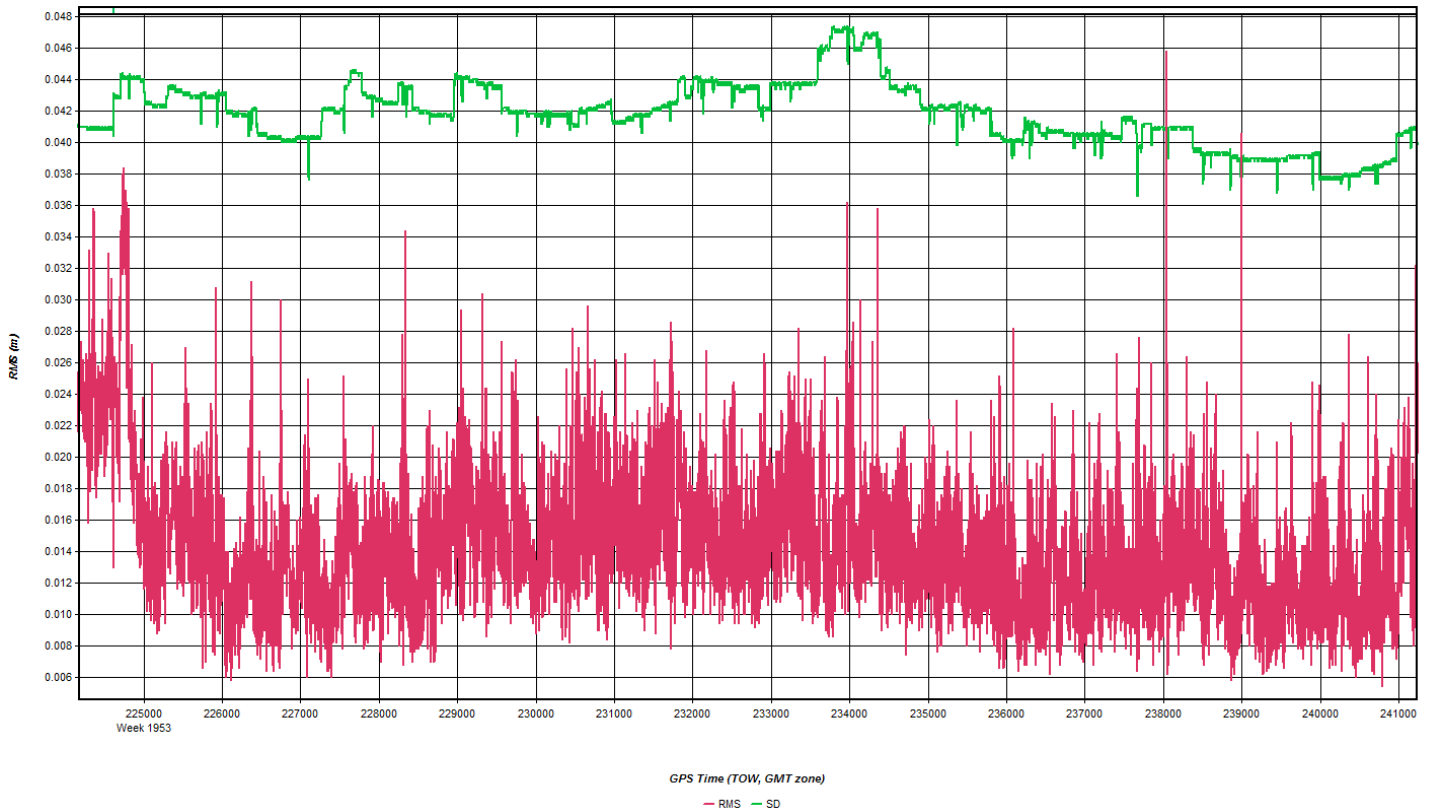
Notes

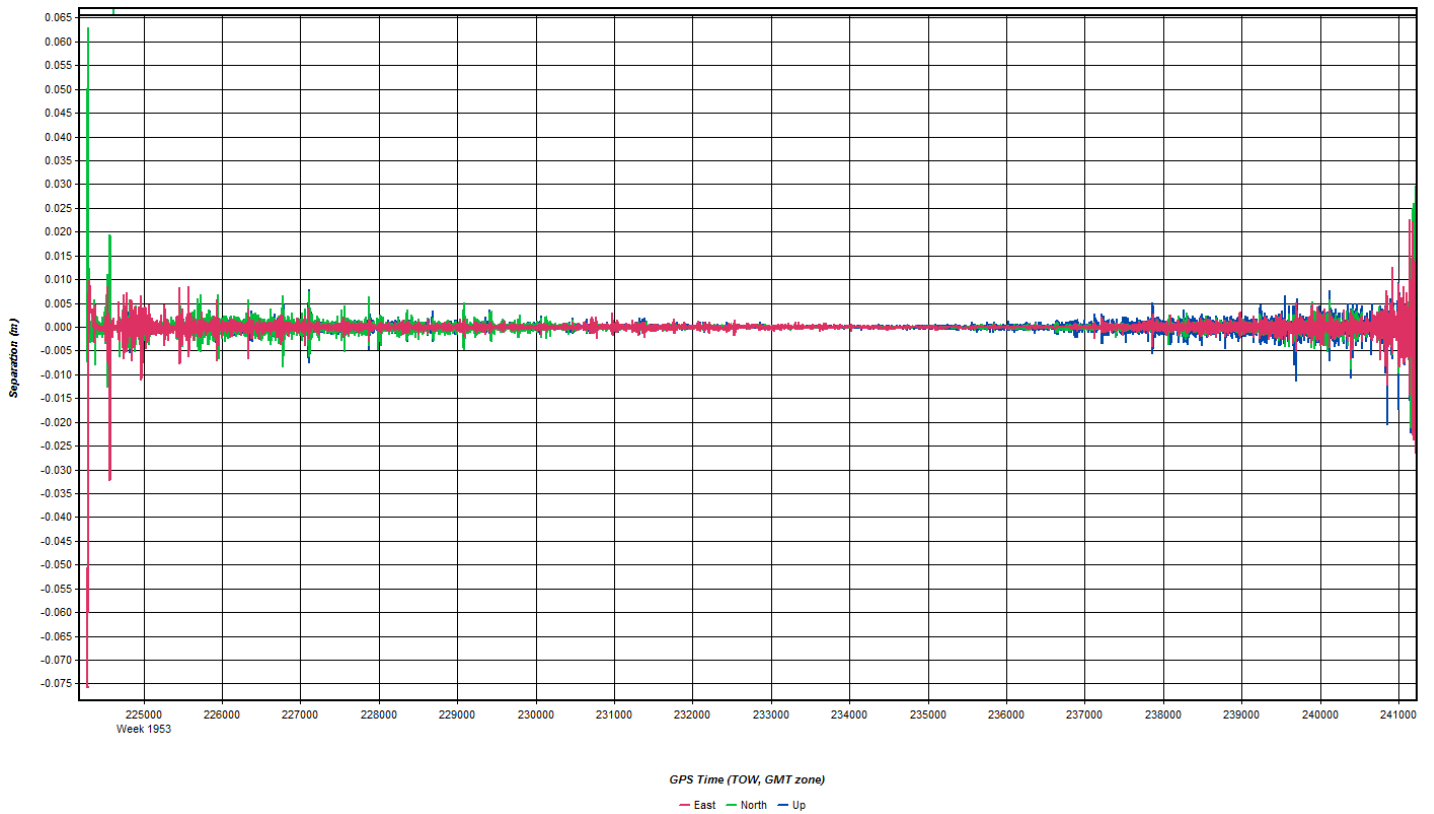
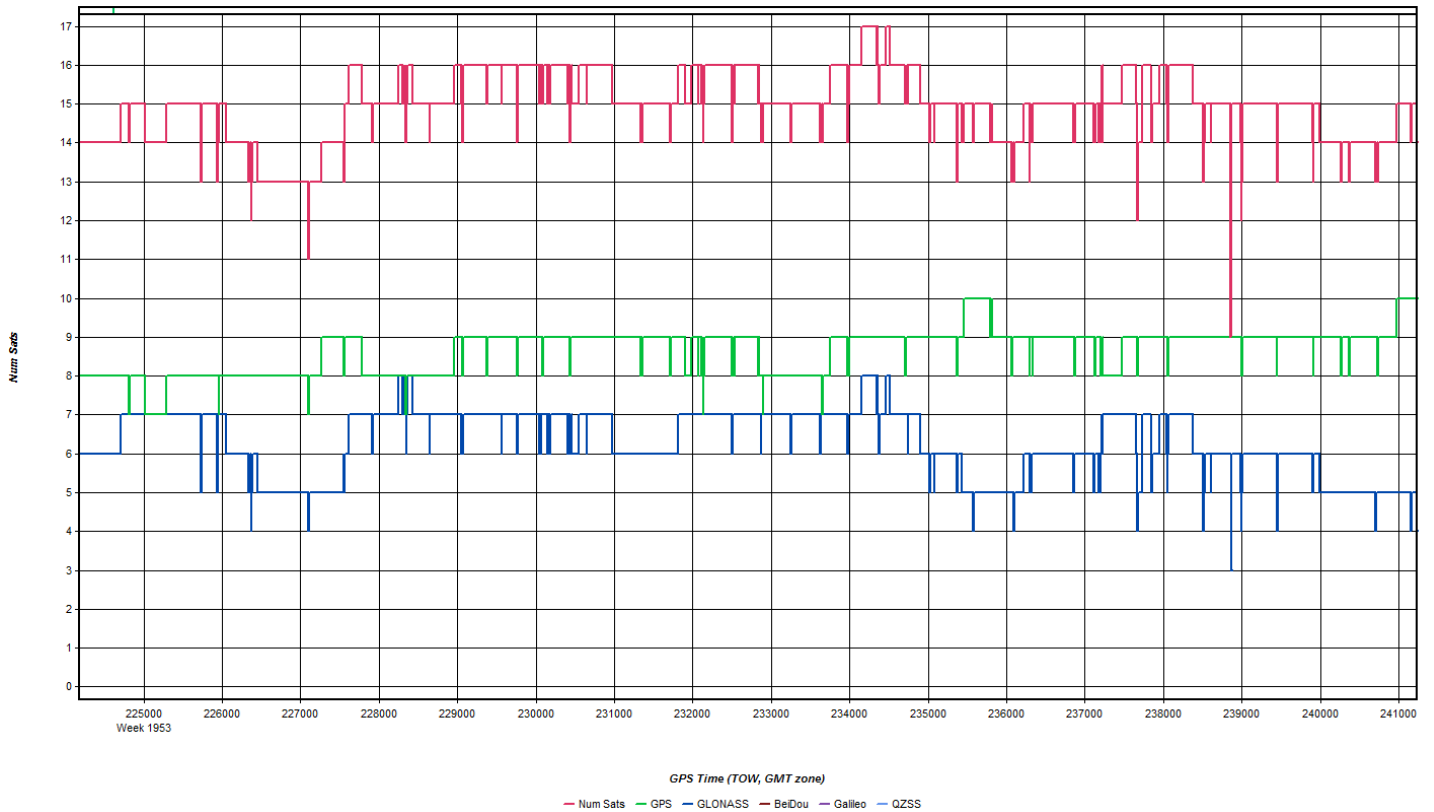
Today we were ready to have wheels up at 0700, however, when we arrived at the airport our plane had not been fueled. We encountered clouds in on area of the AOI and were forced to go fly lines 076-081 off or CORS.

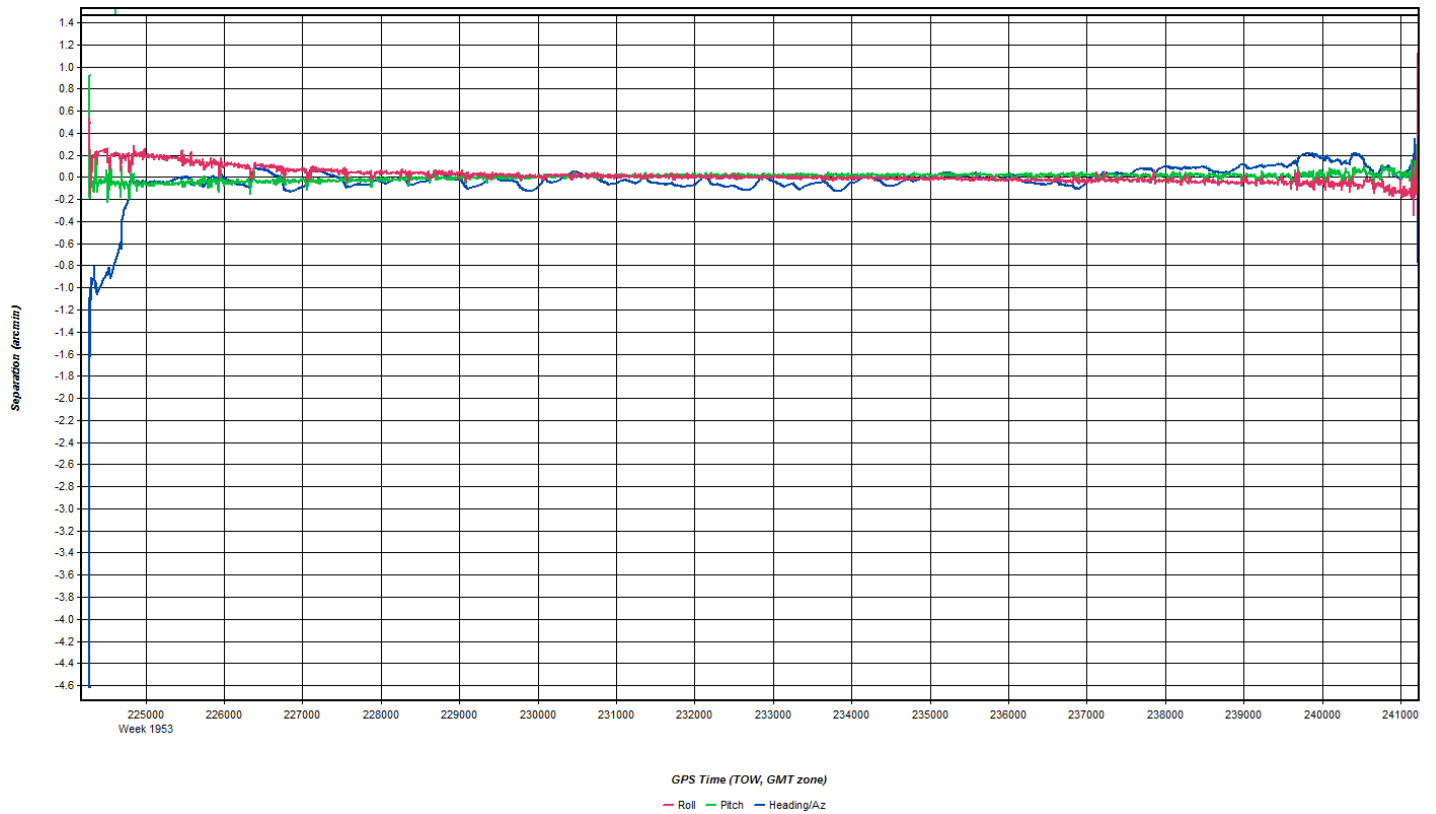
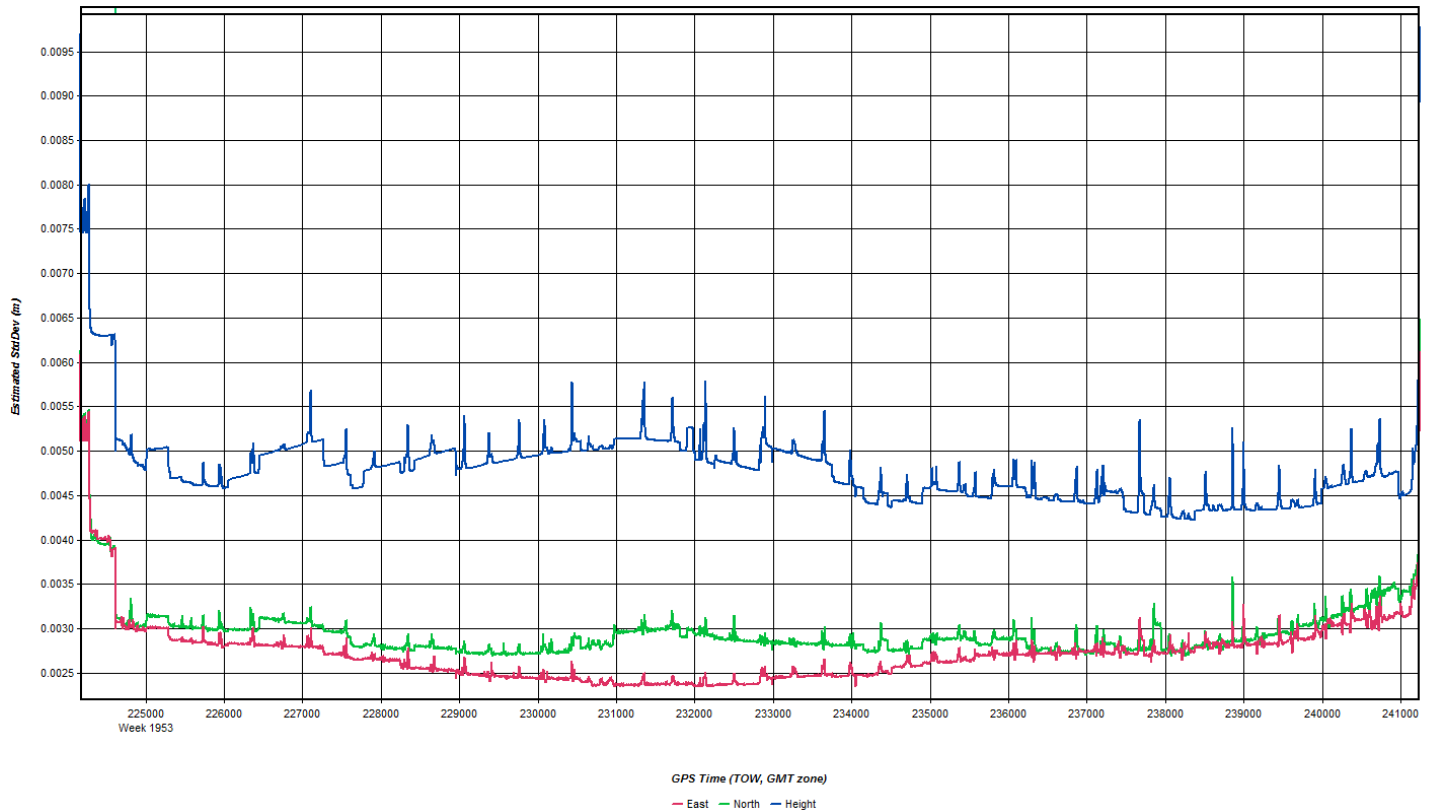
Jun 13, 2017-A (N704MD, SN7161)

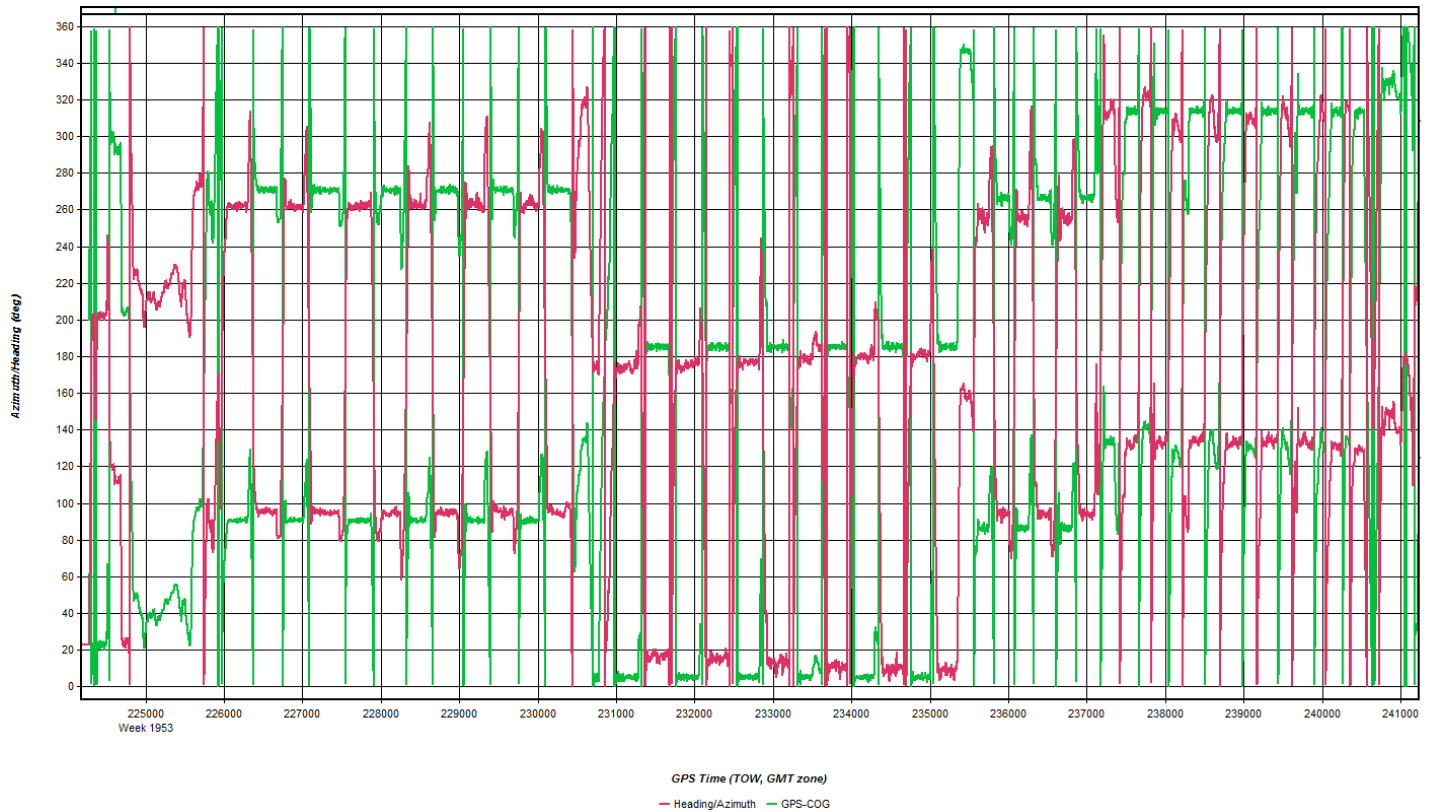












? X

Master Remote

Base Station

2: UTAH16_41 Name: UTAH16_41 Disabled

File: E:\Proc\29083_Utah\29803_Utah_2016\Survey_6-16-17\JD164_7\

Coordinates

Latitude: North 37 25 55.88333 Coord. options

Longitude: West 113 02 40.16813 Save to Favorites

Ellipsoidal height: 2461.055 m

Datum: WGS84 Proc Datum: WGS84

Epoch: year

Antenna Height

From station file: TRM55971.00 View STA File

Antenna profile: TRM55971.00 Info

Measured height: 2.000 m

ARP to L1 offset: 0.067 m

Applied height: 2.067 m

Measured to
 ARP
 L1 Phase Centre
 Compute From Slant

OK Cancel

Coordinate/Antenna Settings ? X

Master Remote

Base Station

1: UTAH16_42 Name: UTAH16_42 Disabled

File: E:\Proc\29083_Utah\29803_Utah_2016\Survey_6-16-17\JD164_7\

Coordinates

Latitude: North 37 29 17.88107 Coord. options

Longitude: West 113 01 08.69475 Save to Favorites

Ellipsoidal height: 2797.040 m

Datum: WGS84 Proc Datum: WGS84

Epoch: year

Antenna Height

From station file: TRM55971.00 View STA File

Antenna profile: TRM55971.00 Info

Measured height: 1.800 m

ARP to L1 offset: 0.067 m

Applied height: 1.867 m

Measured to

ARP

L1 Phase Centre

Compute From Slant

OK Cancel

Flight Log

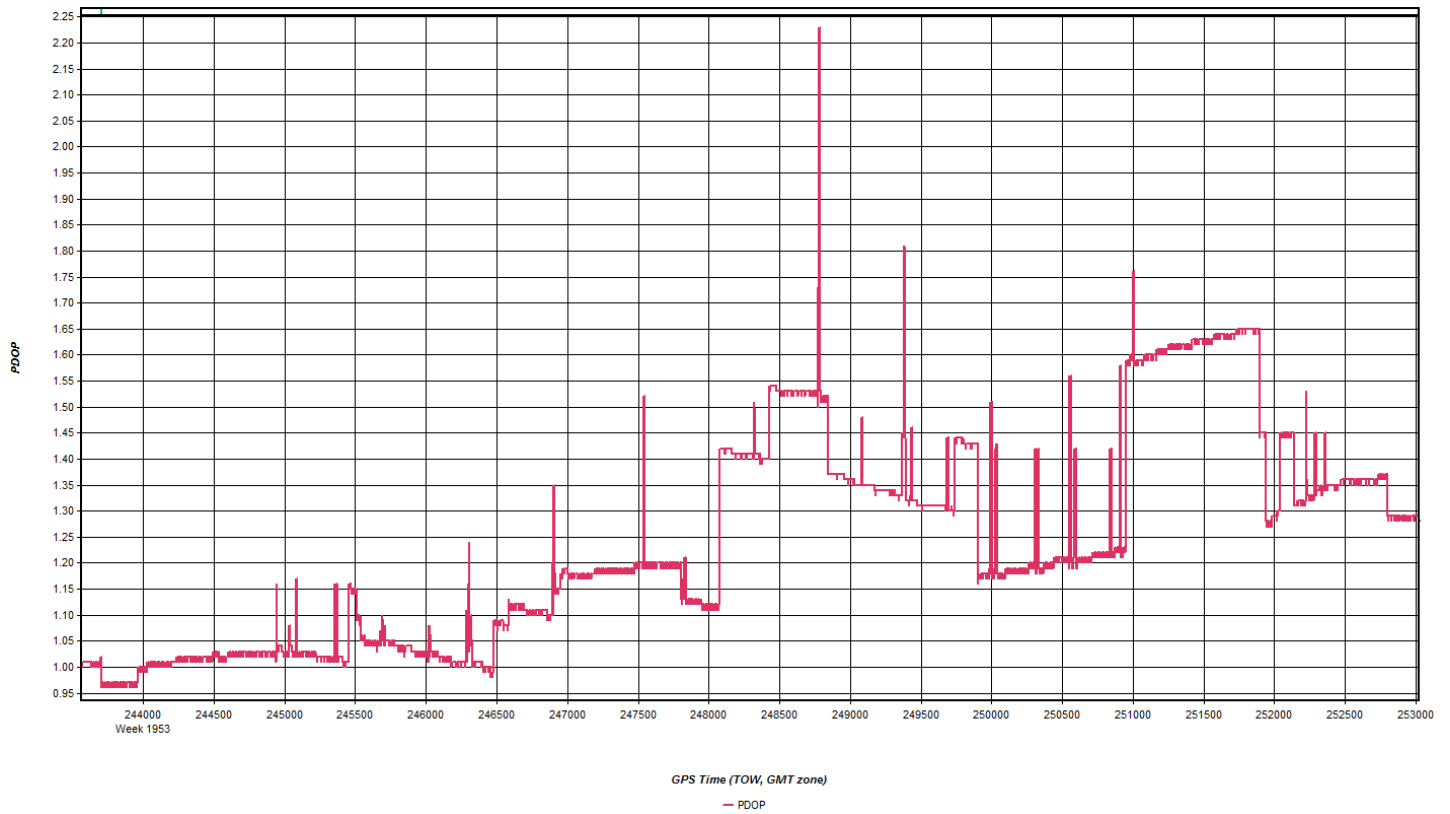
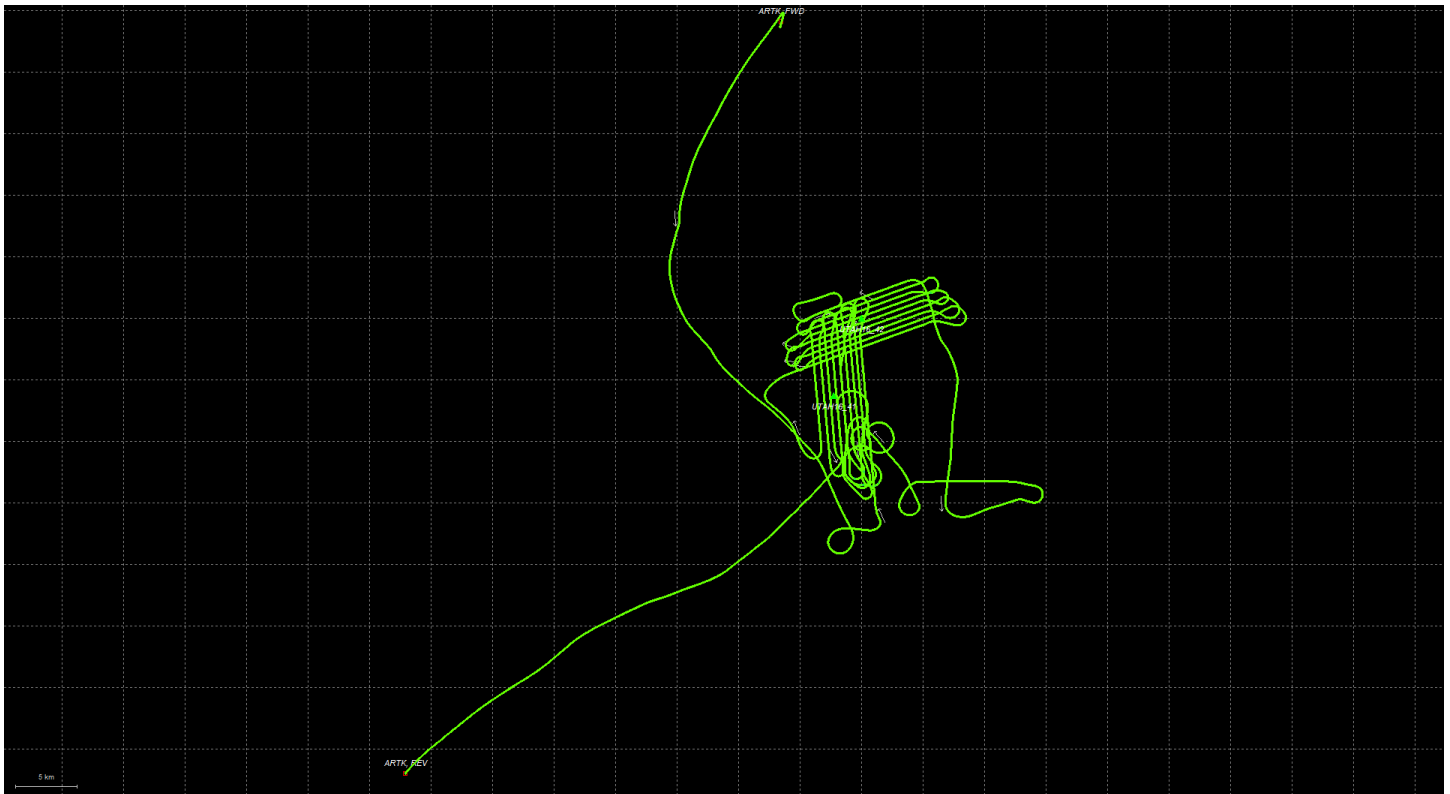
Date: 6/13/2017	Aircraft: N704MD	Sensor: 7161
Project: Utah 2016 LiDAR		Project #: R029083
Flight Mgmt File: FMSL_WACounty_7161		
Pilot: Dave Wagner		Sensor Operator: Drew Johnston

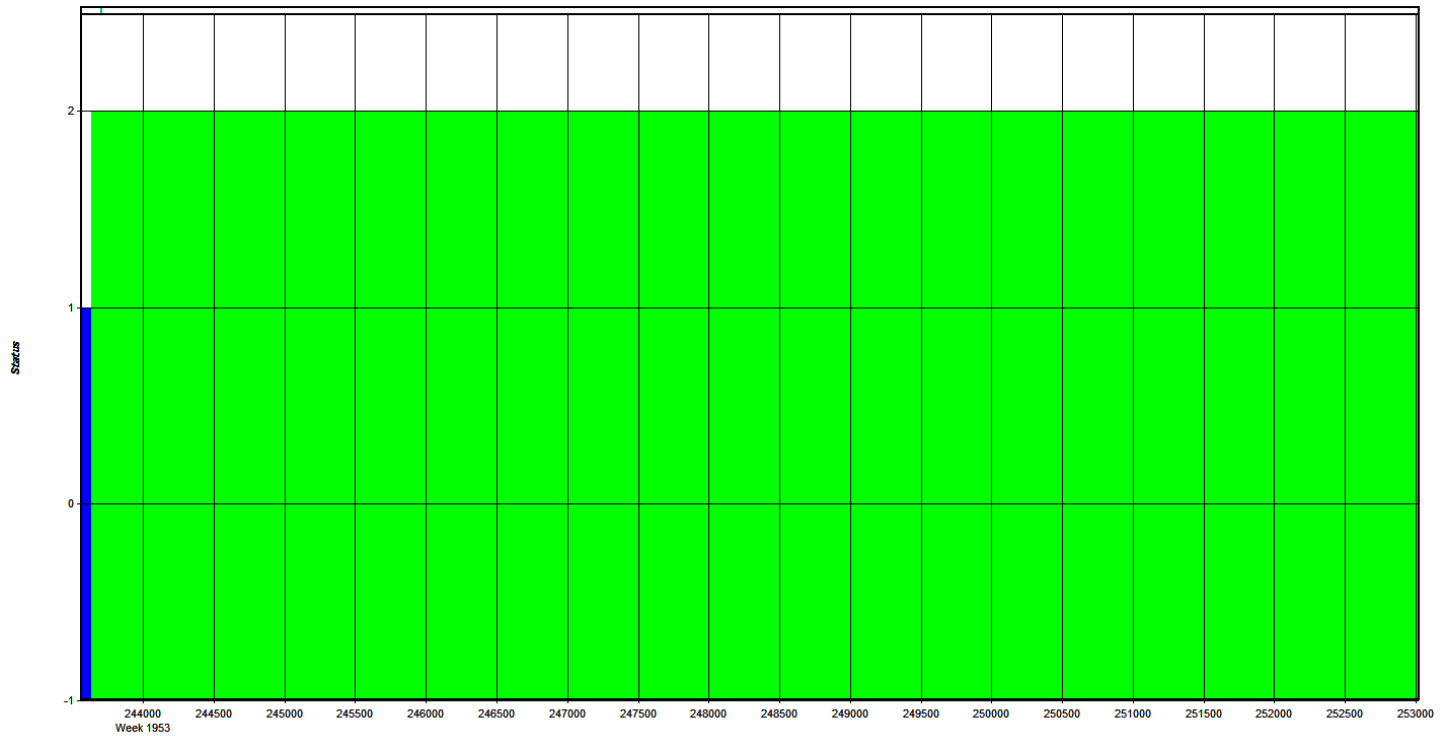
	Flight 1	Flight 2	Flight 3	Flight 4
Wheels Up	8:24:00 AM			
Wheels Down	1:01:00 PM			
Begin Hobbs	1184.1			
End Hobbs	1188.7			
On-line Hobbs: 6		Mob Hobbs: 1.2		

Notes

We had many delays/reflies because of the als70 acting up (false ranges shutting off naked eyesafe?), and range violations/dropouts due to the plan/DEM not taking into account the seriousness of the many canyons. The cliffs are very steep, and a side of the swath could be in a very deep trench that wasn't accounted for in the initial planning. We reflew lines that had dropouts, and flew 3 crosslines along the 'trouble' canyons where we had the most issues. We also battled very high winds aloft and turb throughout the day, forcing us to fly a block S-N w/o alternating directions as DW was concerned about stalls. 7.2 is about the max-pain for such flights. Doing a full QL tonight to see how things turned out.

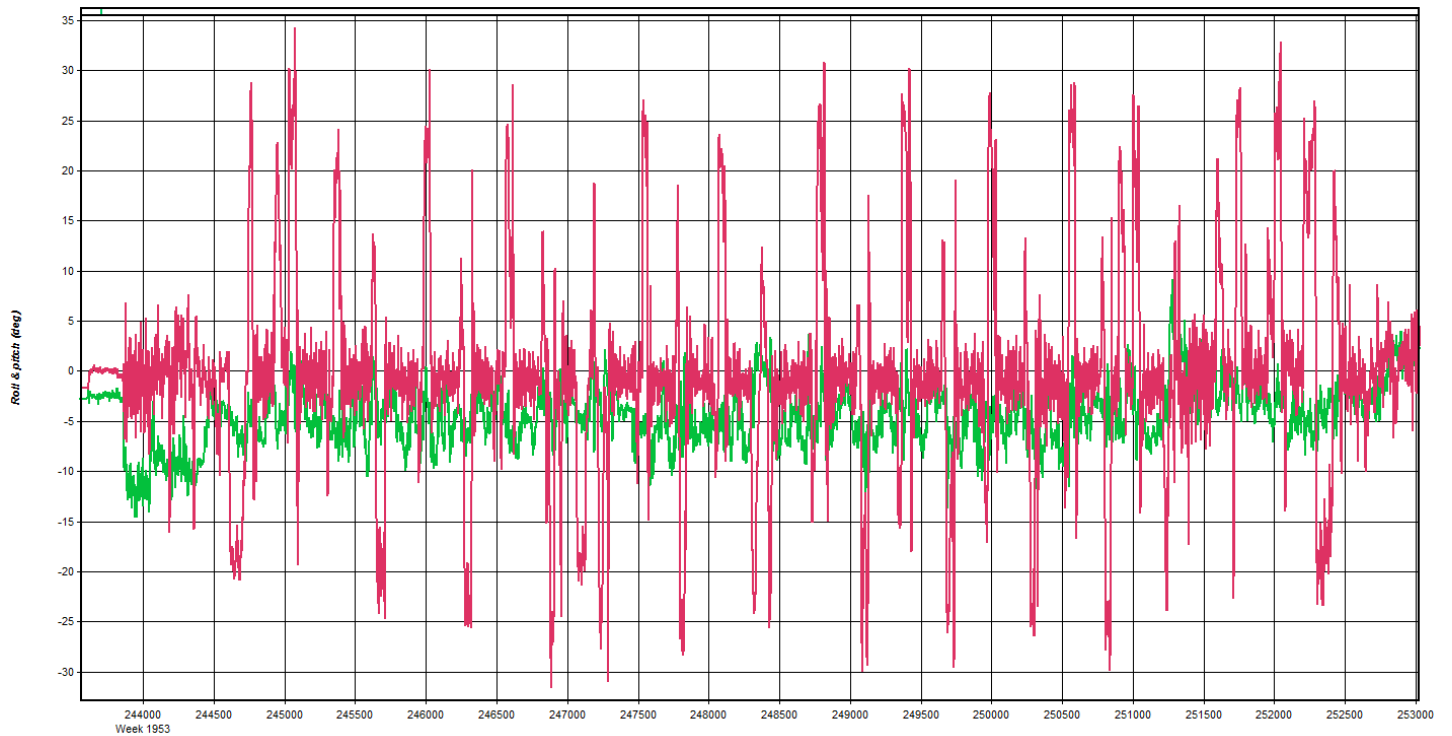
Jun 13, 2017-B (N704MD, SN7161)





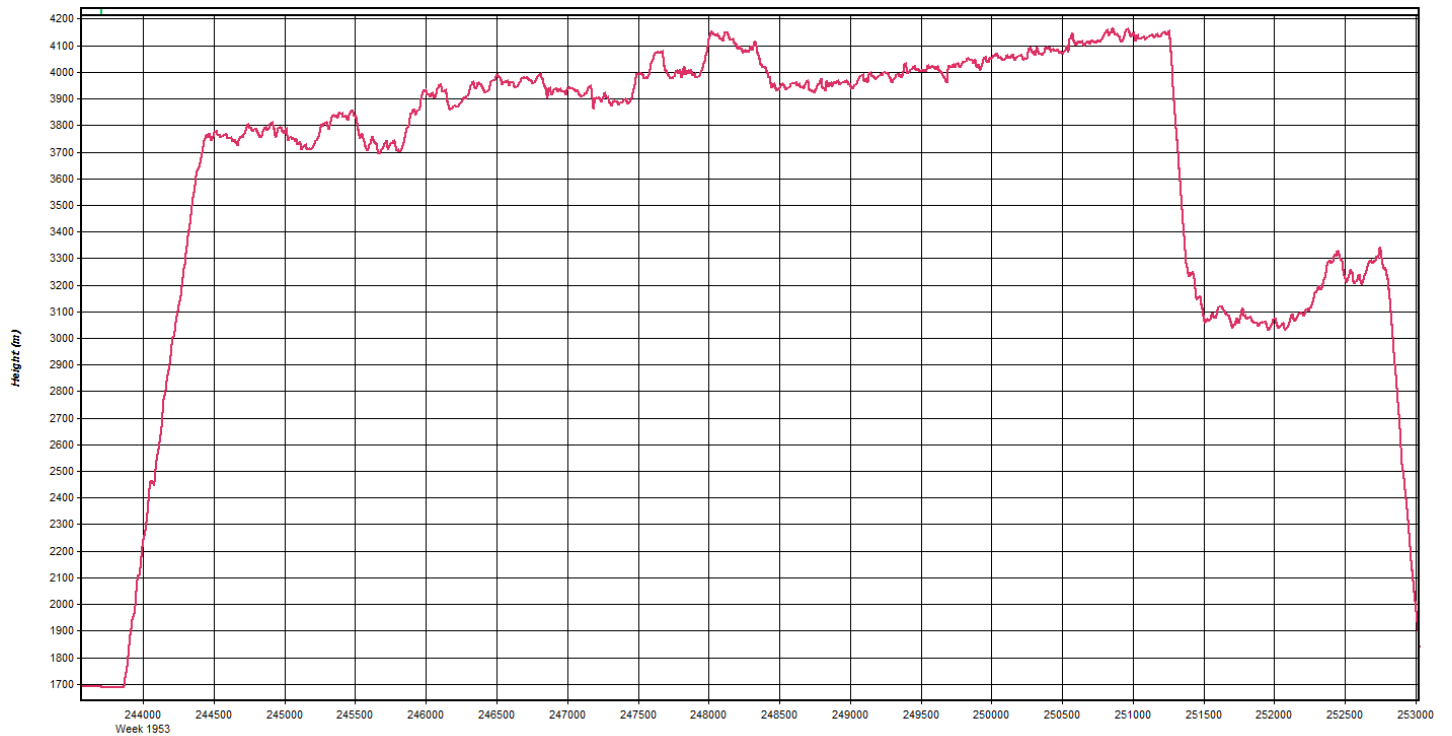
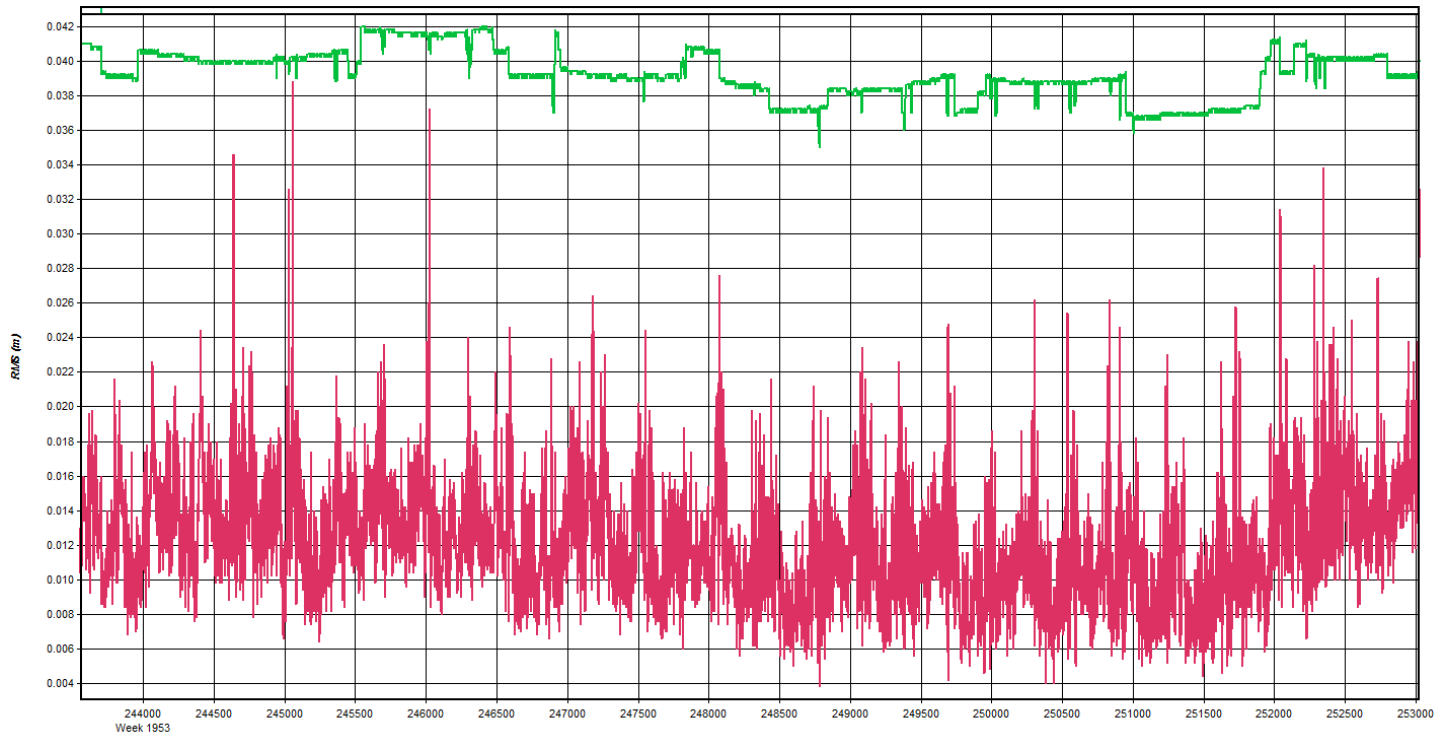
GPS Time (TOW, GMT zone)

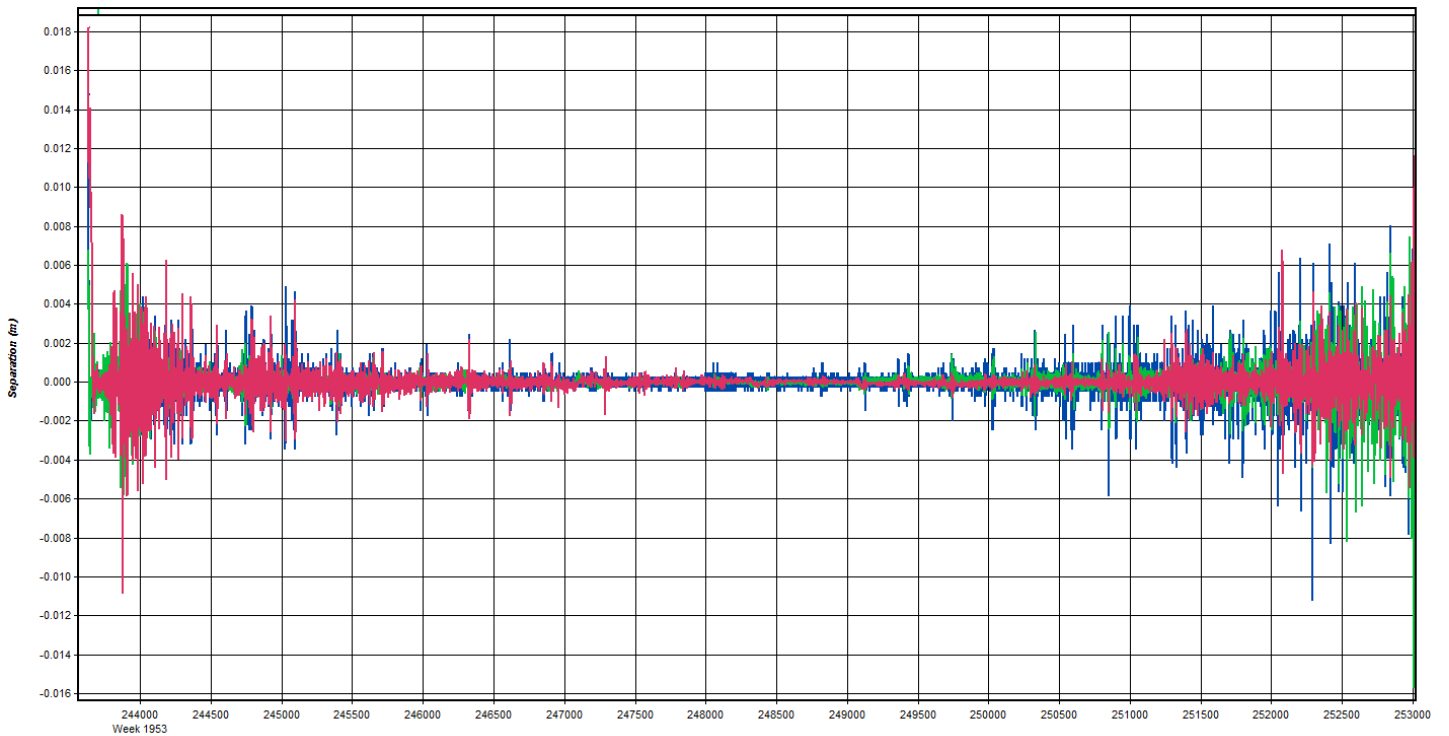
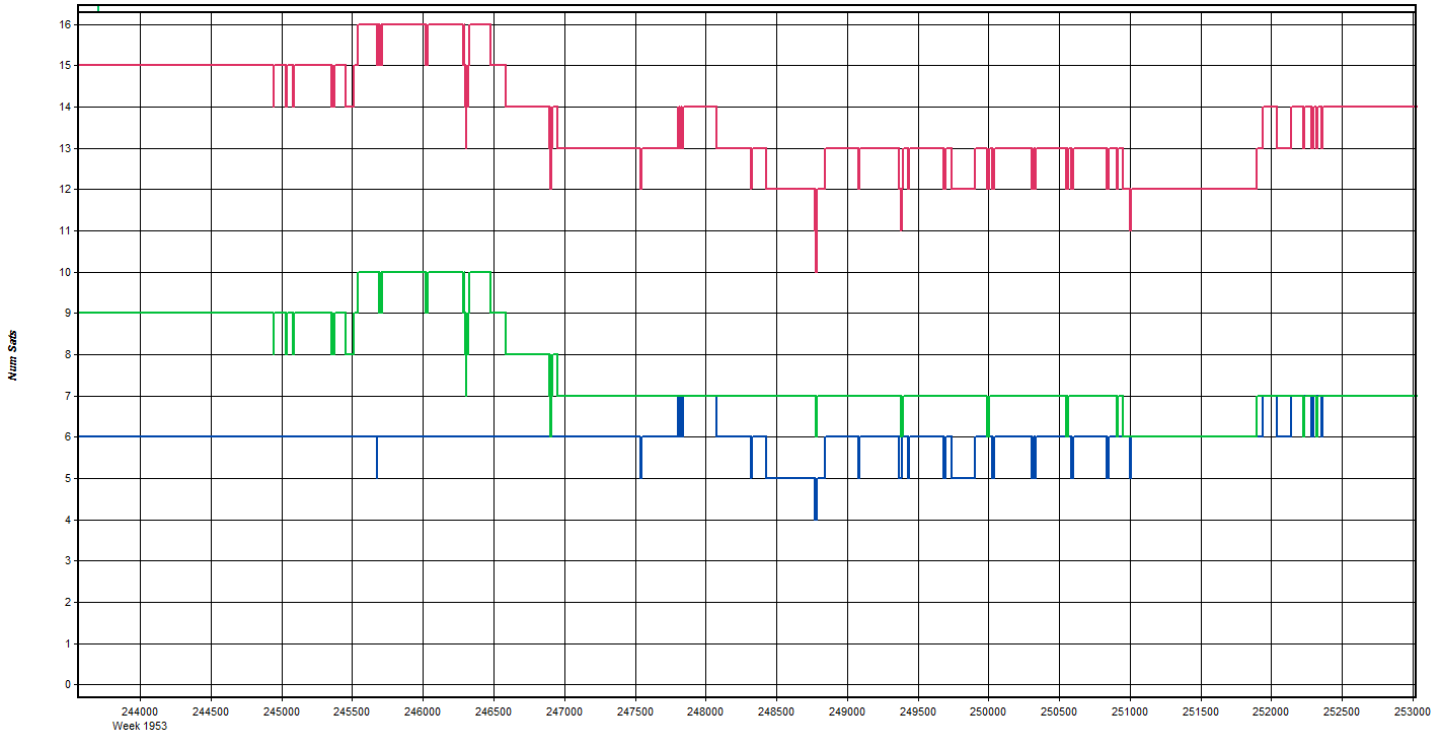
— Float — Forward Fixed — Reverse Fixed — Fixed (2 or more)

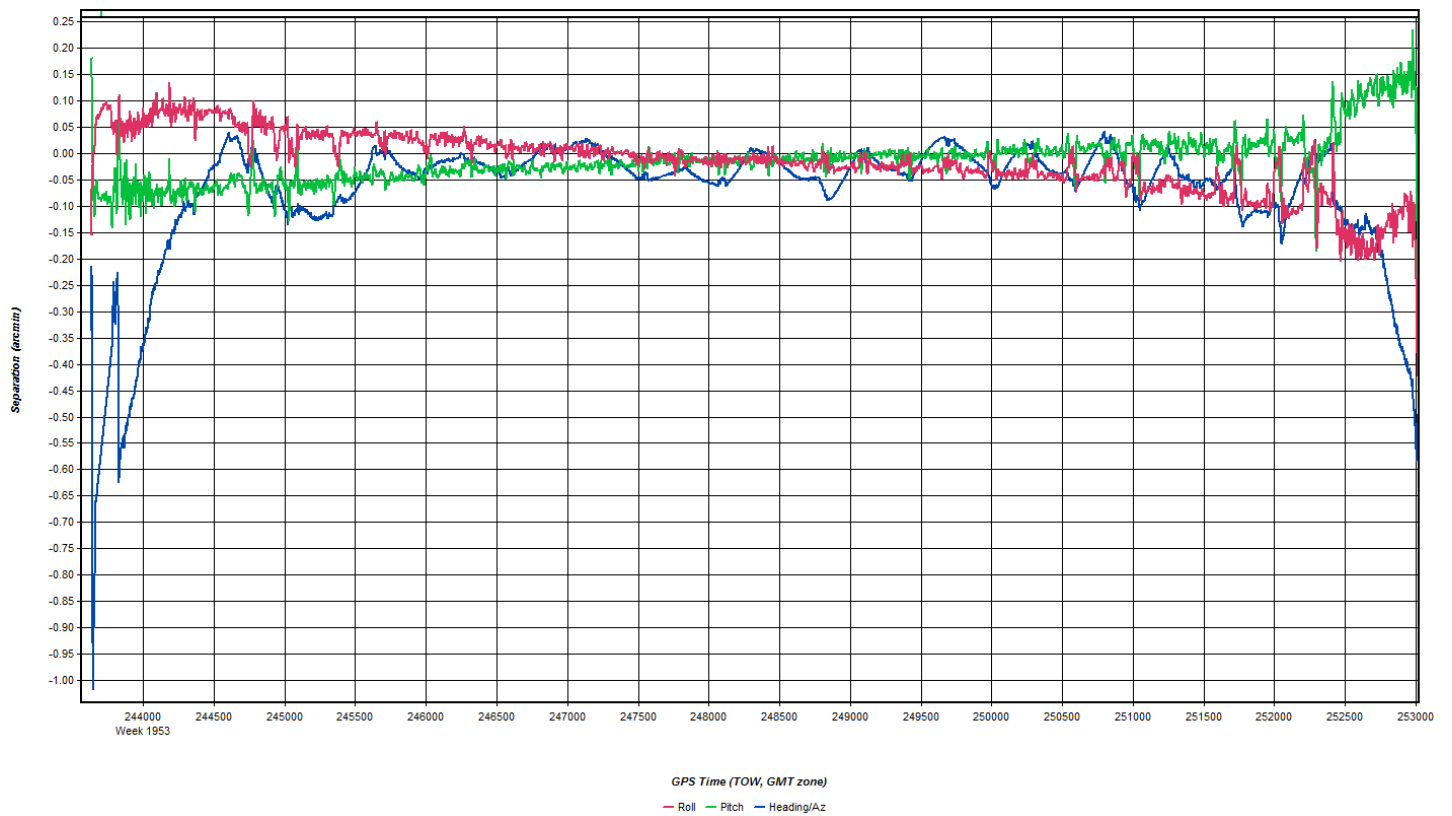
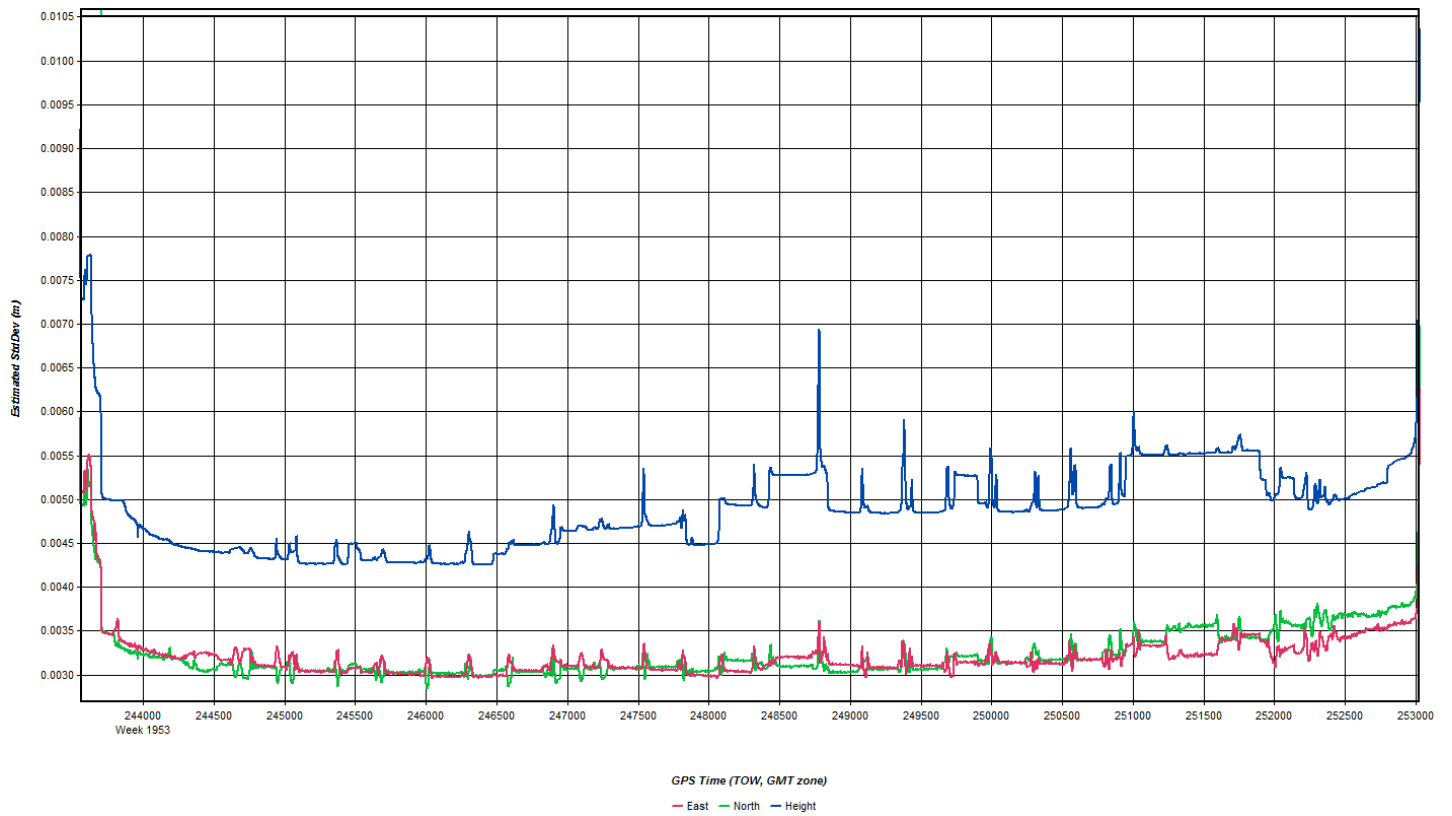


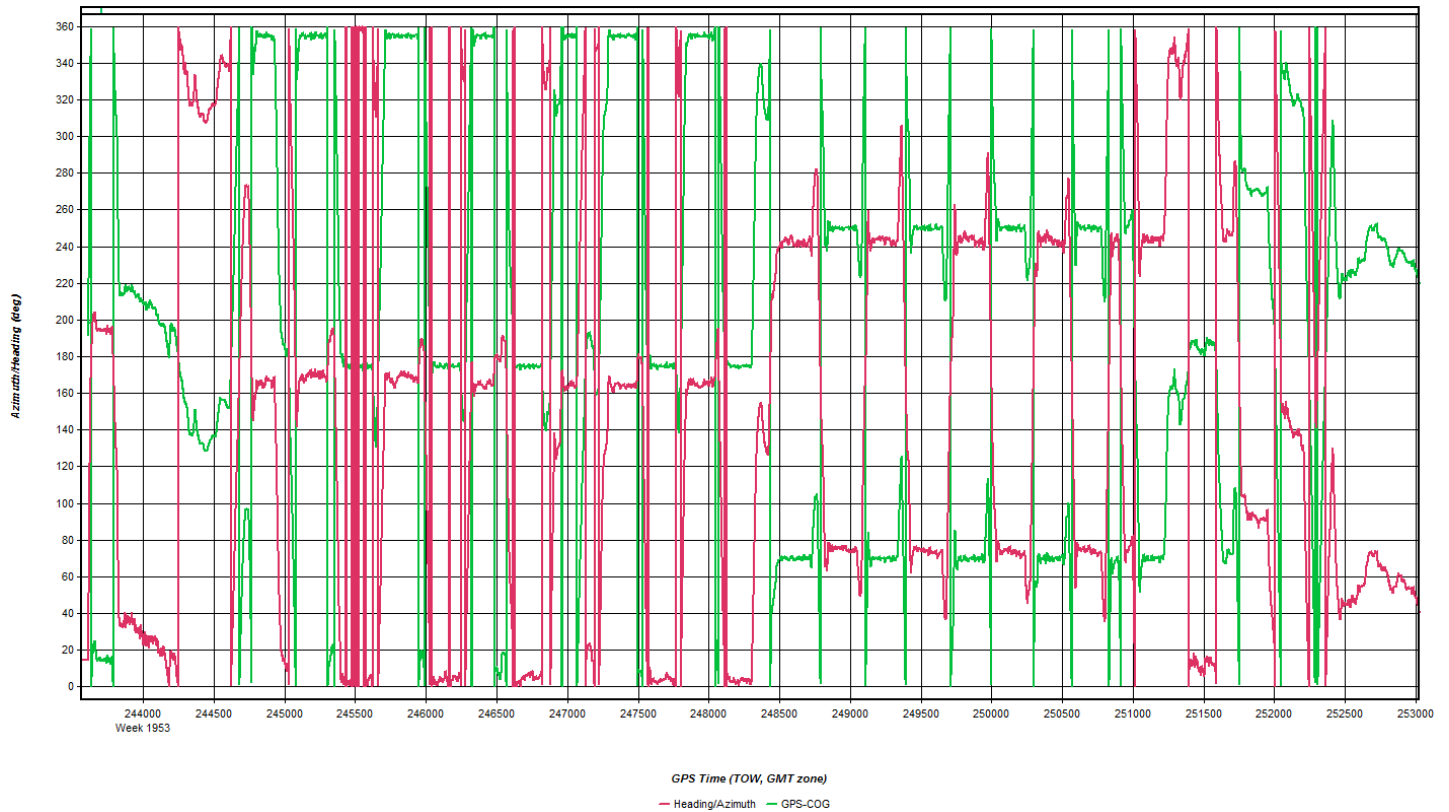
GPS Time (TOW, GMT zone)

— Roll — Pitch









Coordinate/Antenna Settings
?
✕

Master Remote

Base Station
 2: UTAH16_41 Name: UTAH16_41 Disabled
 File: E:\Proc\29083_Utah\29803_Utah_2016\Survey_6-16-17\JD164_7\

Coordinates
 Latitude: North 37 25 55.88333 Coord. options
 Longitude: West 113 02 40.16813 Save to Favorites
 Ellipsoidal height: 2461.055 m
 Datum: WGS84 Proc Datum: WGS84
 Epoch: year

Antenna Height
 From station file: TRM55971.00 View STA File
 Antenna profile: TRM55971.00 Info
 Measured height: 2.000 m
 ARP to L1 offset: 0.067 m
 Applied height: 2.067 m
 Measured to
 ARP
 L1 Phase Centre
 Compute From Slant

OK Cancel

Coordinate/Antenna Settings ? X

Master Remote

Base Station

1: UTAH16_42 Name: UTAH16_42 Disabled

File: E:\Proc\29083_Utah\29803_Utah_2016\Survey_6-16-17\JD164_70

Coordinates

Latitude: North 37 29 17.88107 Coord. options

Longitude: West 113 01 08.69475 Save to Favorites

Ellipsoidal height: 2797.040 m

Datum: WGS84 Proc Datum: WGS84

Epoch: year

Antenna Height

From station file: TRM55971.00 View STA File

Antenna profile: TRM55971.00 Info

Measured height: 1.800 m

ARP to L1 offset: 0.067 m

Applied height: 1.867 m

Measured to

ARP

L1 Phase Centre

Compute From Slant

OK Cancel

Flight Log

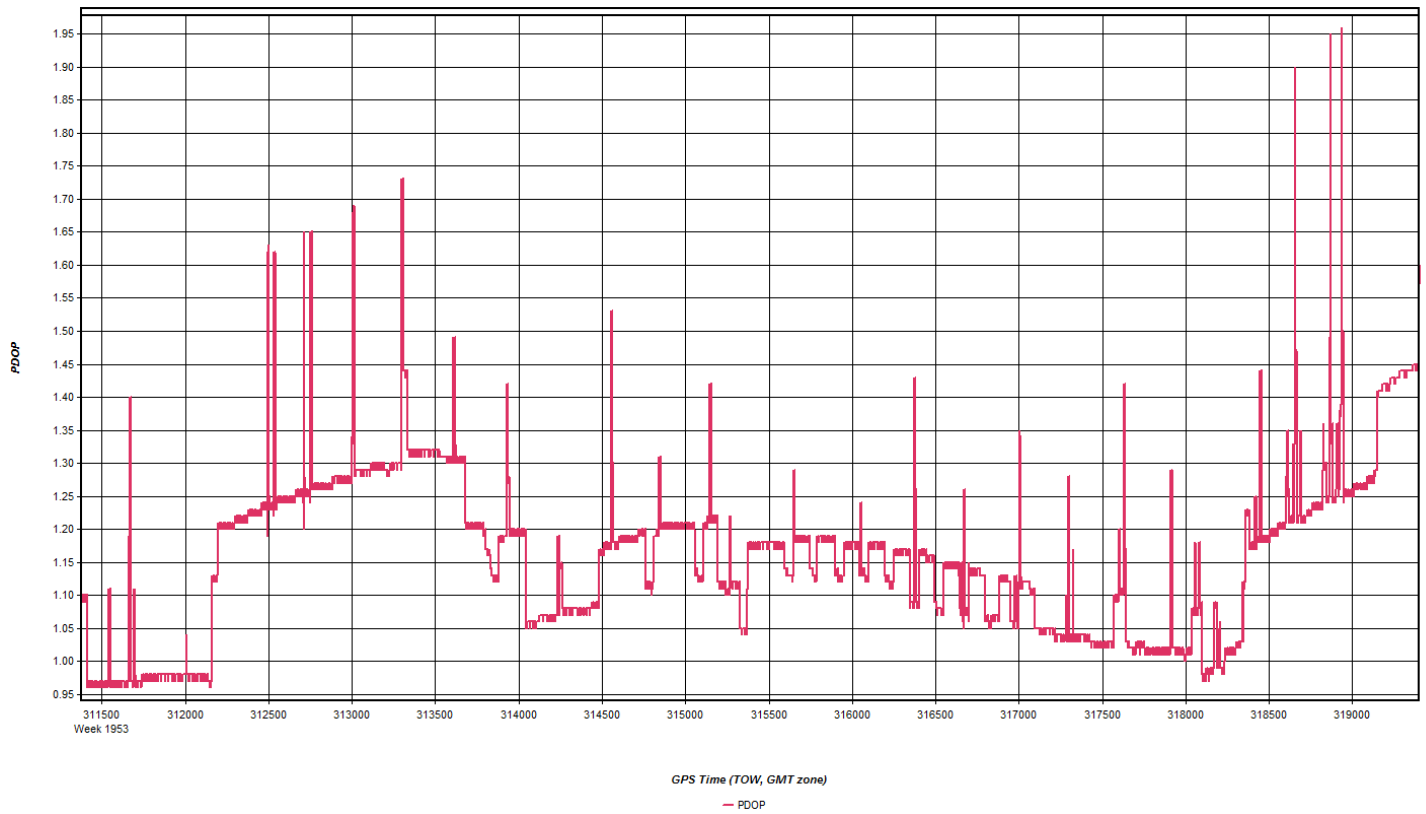
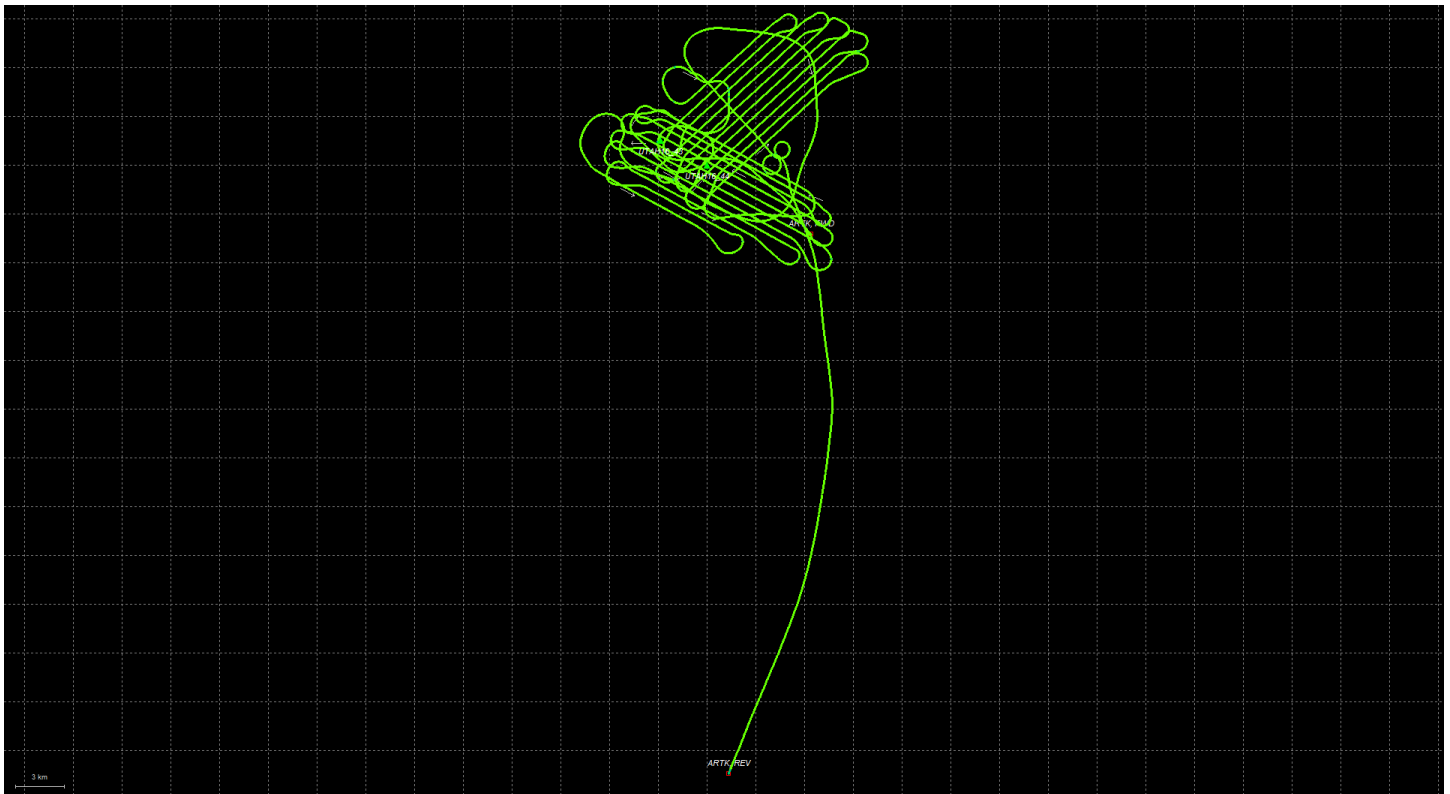
Date: 6/13/2017	Aircraft: N704MD	Sensor: 7161
Project: Utah 2016 LiDAR		Project #: R029083
Flight Mgmt File: FMSL_WACounty_7161		
Pilot: Dave Wagner		Sensor Operator: Drew Johnston

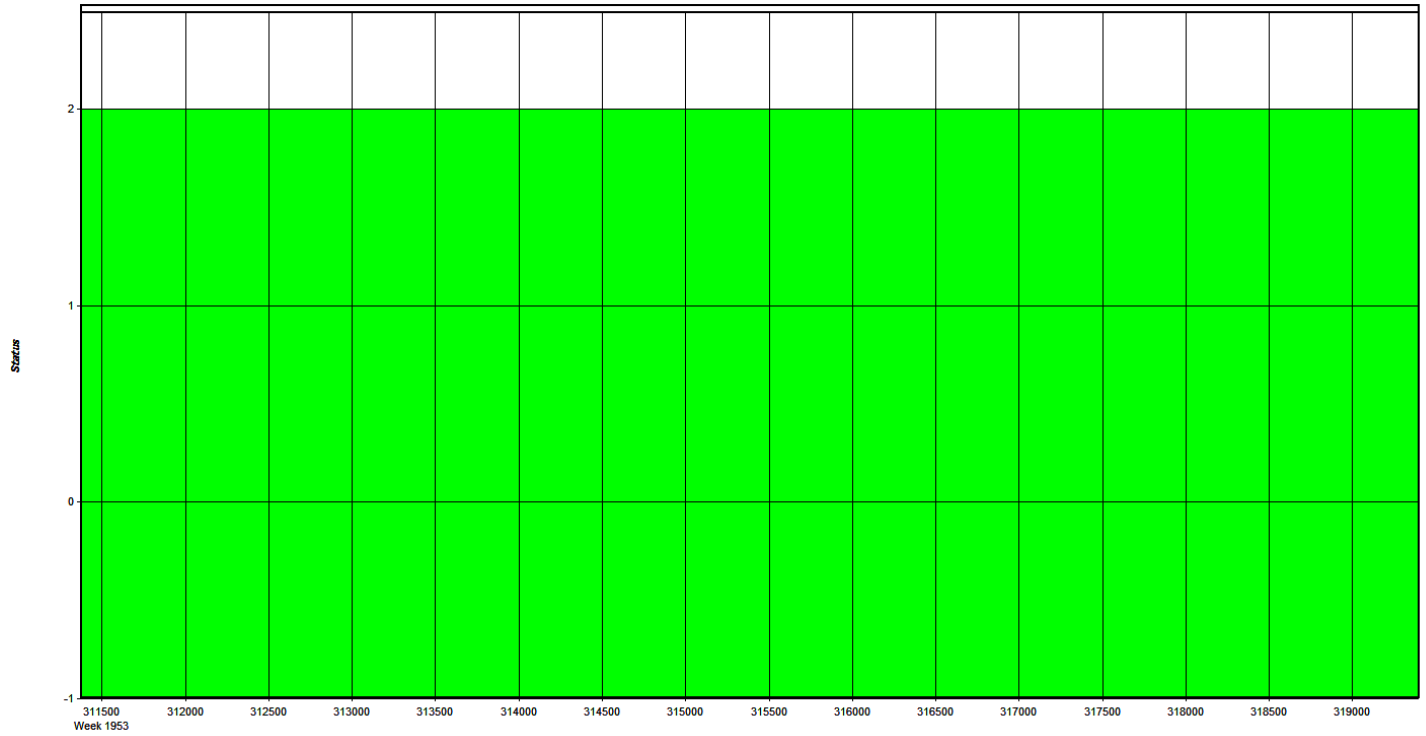
	Flight 1	Flight 2	Flight 3	Flight 4
Wheels Up	8:24:00 AM			
Wheels Down	1:01:00 PM			
Begin Hobbs	1184.1			
End Hobbs	1188.7			
On-line Hobbs: 6		Mob Hobbs: 1.2		

Notes

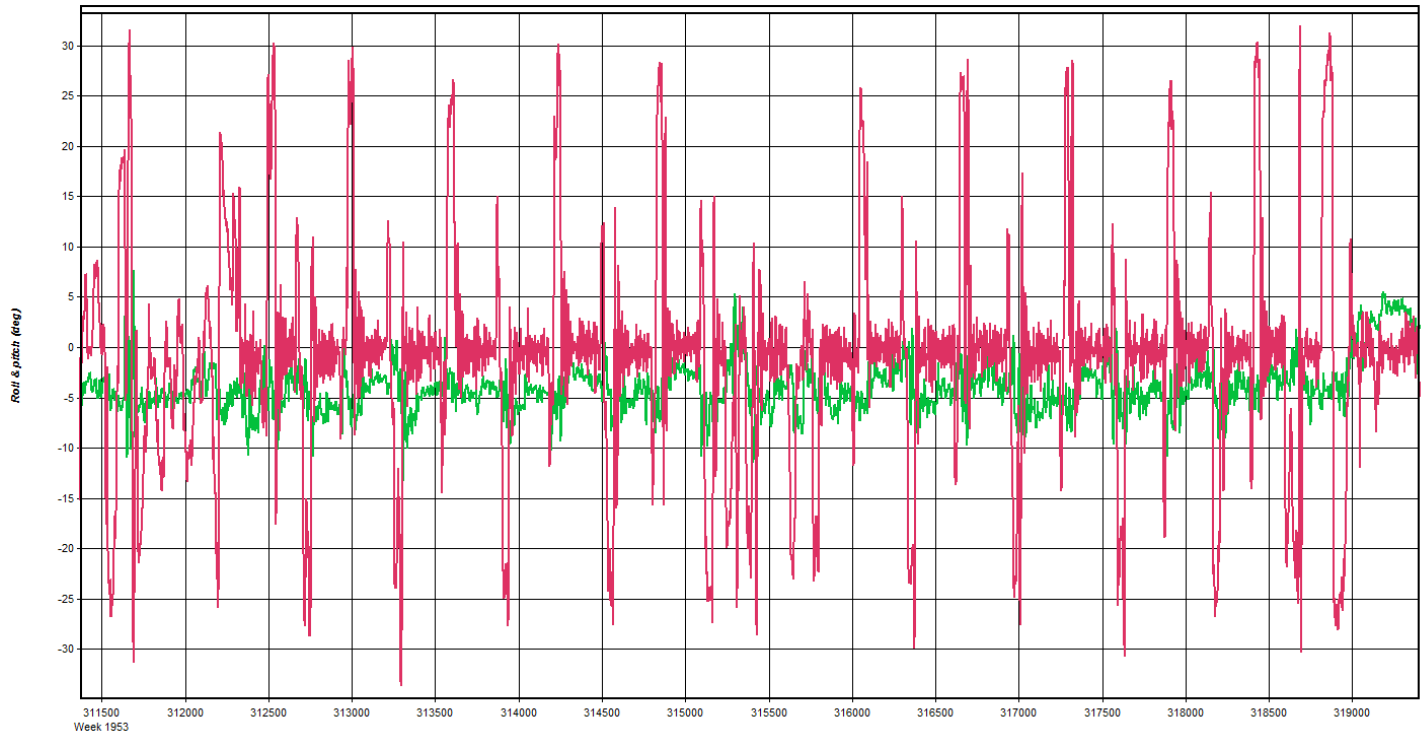
We had many delays/reflies because of the als70 acting up (false ranges shutting off naked eyesafe?), and range violations/dropouts due to the plan/DEM not taking into account the seriousness of the many canyons. The cliffs are very steep, and a side of the swath could be in a very deep trench that wasn't accounted for in the initial planning. We reflew lines that had dropouts, and flew 3 crosslines along the 'trouble' canyons where we had the most issues. We also battled very high winds aloft and turb throughout the day, forcing us to fly a block S-N w/o alternating directions as DW was concerned about stalls. 7.2 is about the max-pain for such flights. Doing a full QL tonight to see how things turned out.

Jun 14, 2017-A (N704MD, SN7161)

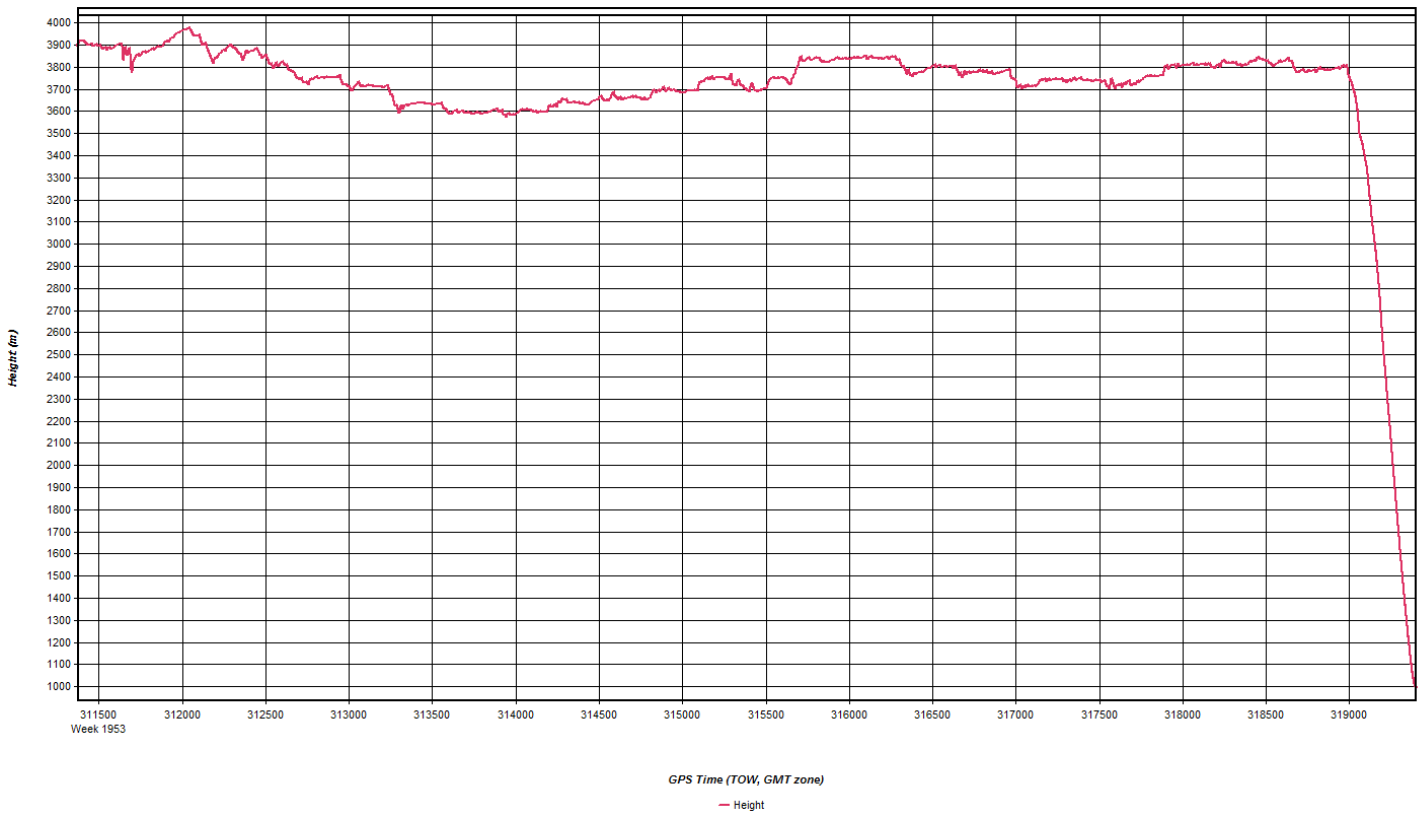
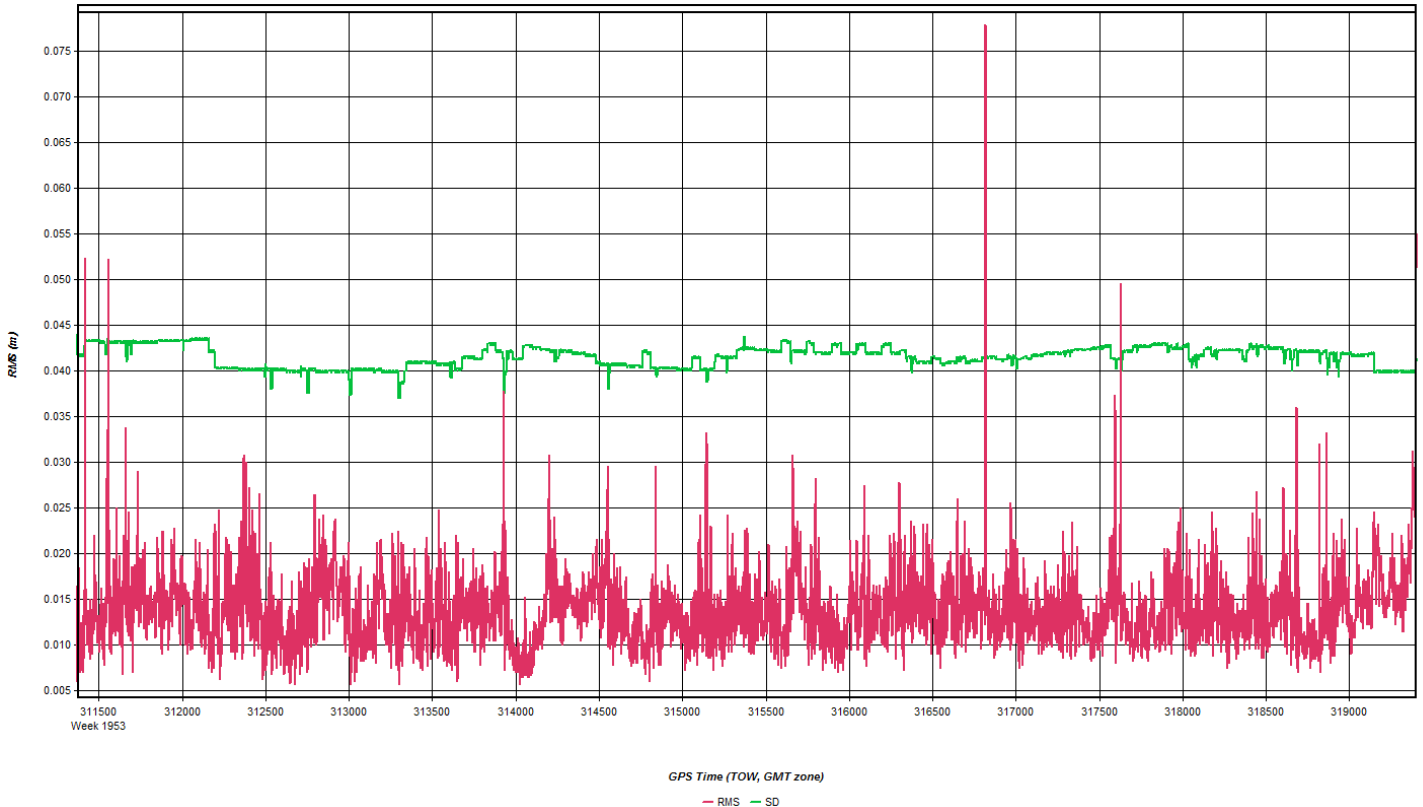


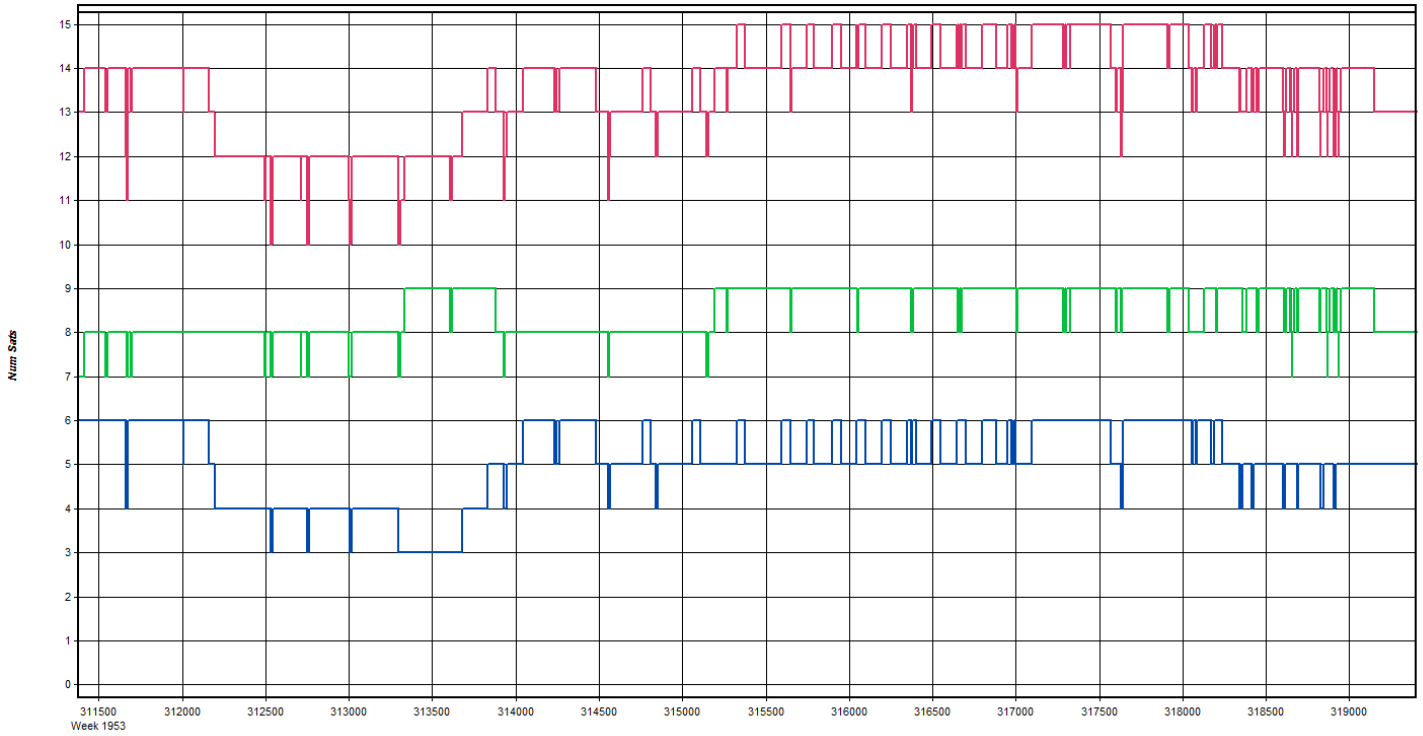


GPS Time (TOW, GMT zone)
— Float — Forward Fixed — Reverse Fixed — Fixed (2 or more)

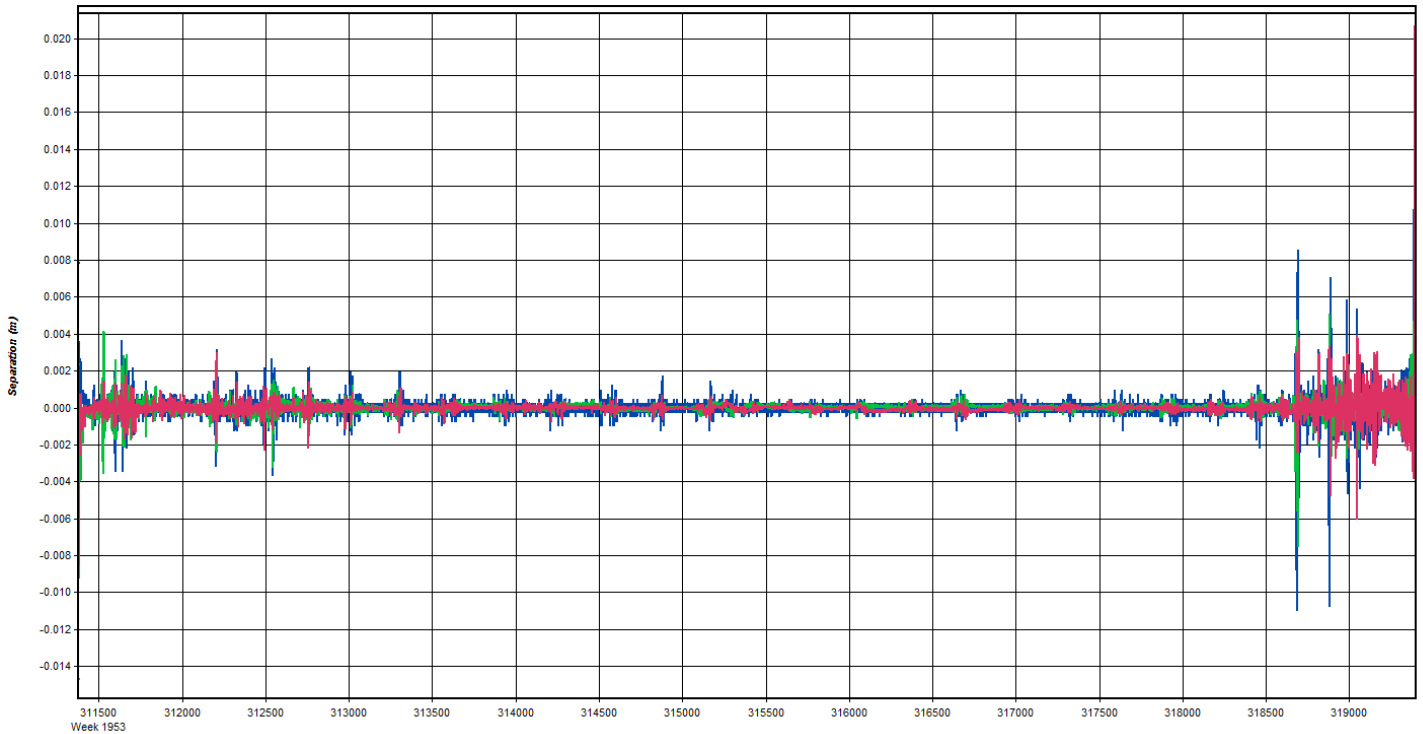


GPS Time (TOW, GMT zone)
— Roll — Pitch

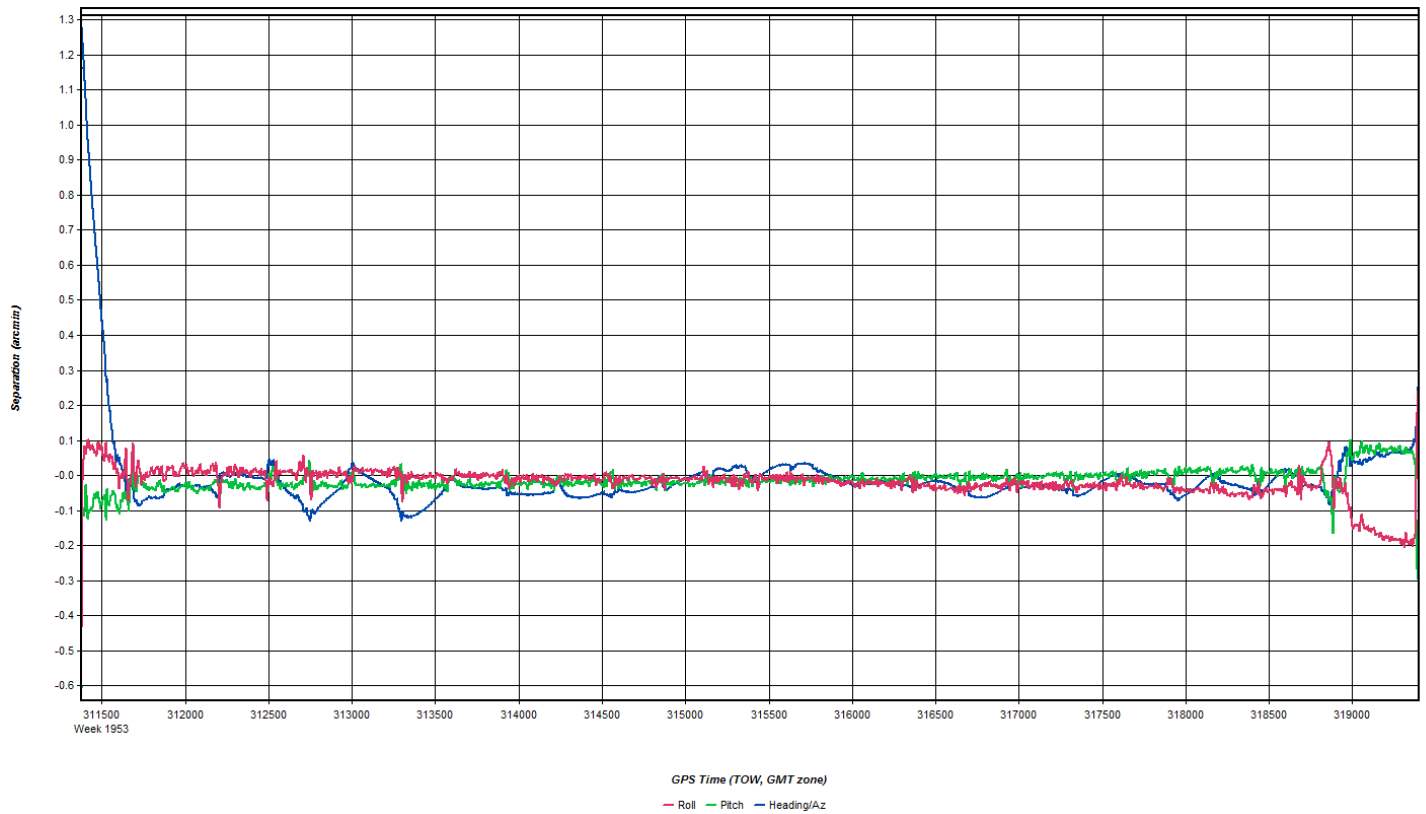
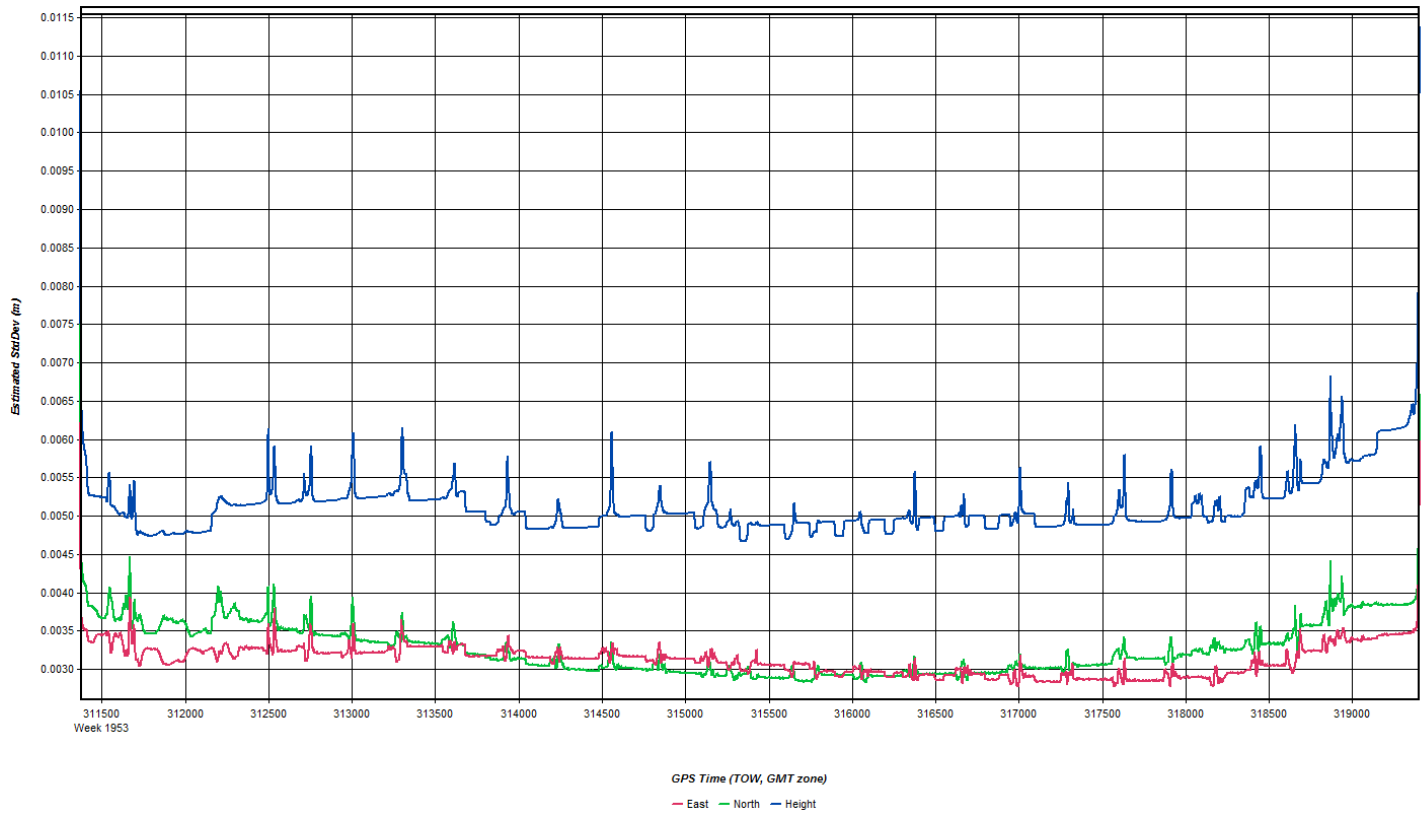


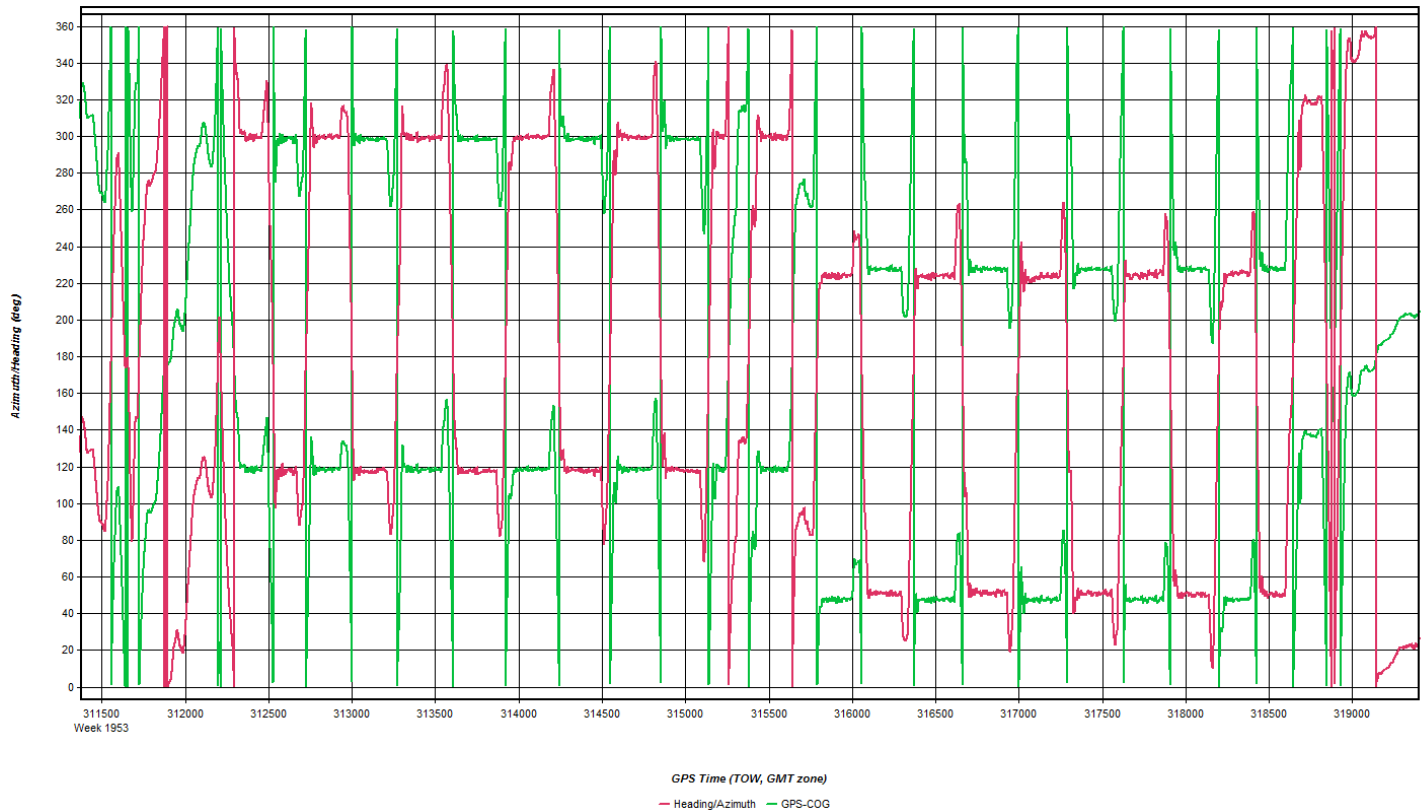


GPS Time (TOW, GMT zone)
- Num Sats - GPS - GLONASS - BeiDou - Galileo - QZSS



GPS Time (TOW, GMT zone)
- East - North - Up





Coordinate/Antenna Settings

Master Remote

Base Station
 2: UTAH16_43 Name: UTAH16_43 Disabled
 File: E:\Proc\29083_Utah\29803_Utah_2016\Survey_6-16-17\JD165_7\

Coordinates
 Latitude: North 37 24 43.84132 Coord. options
 Longitude: West 113 32 31.51438 Save to Favorites
 Ellipsoidal height: 1904.470 m
 Datum: WGS84 Proc Datum: WGS84
 Epoch: year

Antenna Height
 From station file: TRM55971.00 View STA File
 Antenna profile: TRM55971.00 Info
 Measured height: 2.000 m
 ARP to L1 offset: 0.067 m
 Applied height: 2.067 m
 Measured to:
 ARP
 L1 Phase Centre
 Compute From Slant

OK Cancel

Coordinate/Antenna Settings ? X

Master Remote

Base Station

1: UTAH16_44 Name: UTAH16_44 Disabled

File: E:\Proc\29083_Utah\29803_Utah_2016\Survey_6-16-17\JD165_7\

Coordinates

Latitude: North 37 23 54.45819 Coord. options

Longitude: West 113 30 36.56812 Save to Favorites

Ellipsoidal height: 1961.460 m

Datum: WGS84 Proc Datum: WGS84

Epoch: year

Antenna Height

From station file: TRM55971.00 View STA File

Antenna profile: TRM55971.00 Info

Measured height: 2.000 m

ARP to L1 offset: 0.067 m

Applied height: 2.067 m

Measured to

ARP

L1 Phase Centre

Compute From Slant

OK Cancel

Flight Log

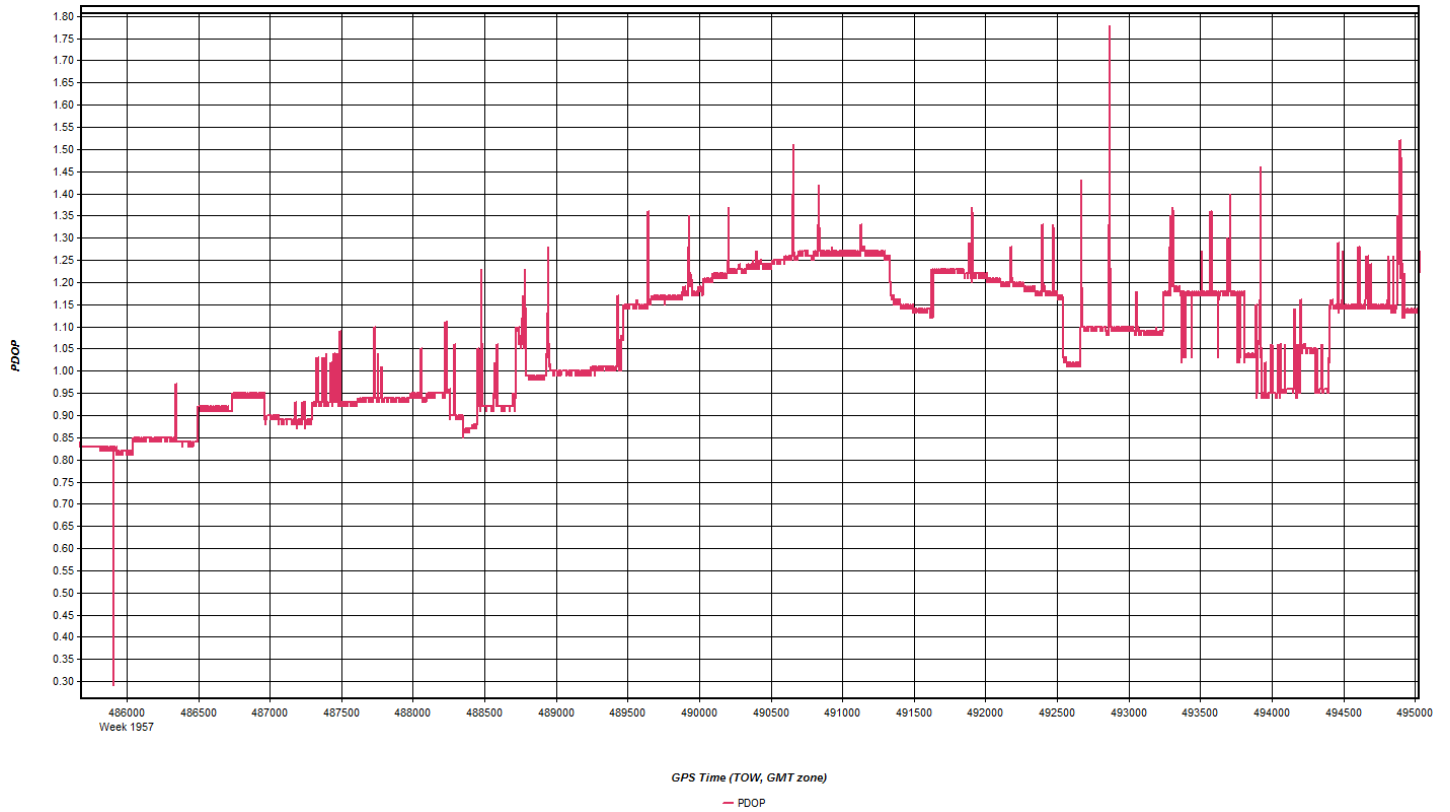
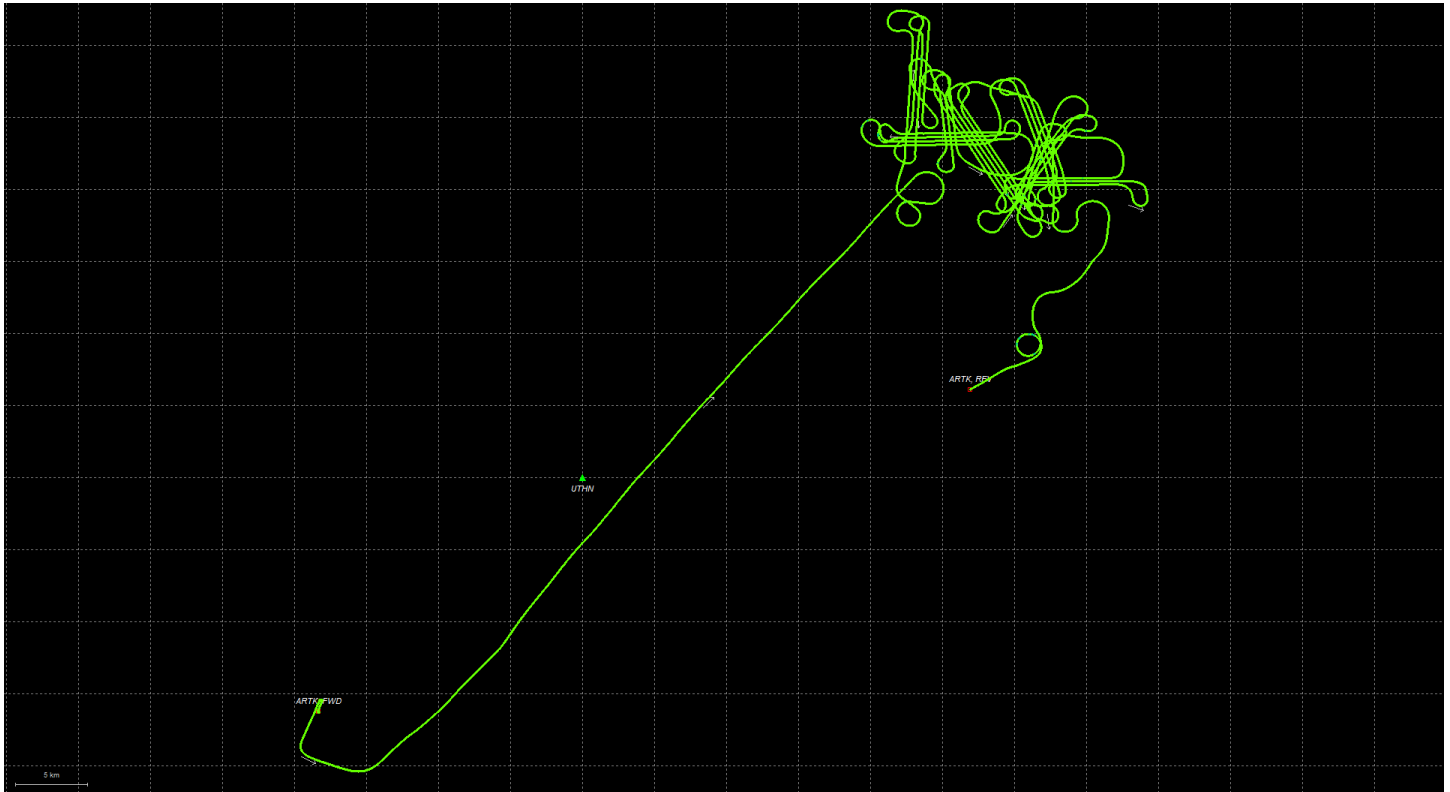
Date: 6/14/2017	Aircraft: 704MD	Sensor: 7161
Project: Utah 2016 LiDAR		Project #: R029083
Flight Mgmt File: FMSL_WACounty_7161		
Pilot: Dave Wagner		Sensor Operator: Drew Johnston

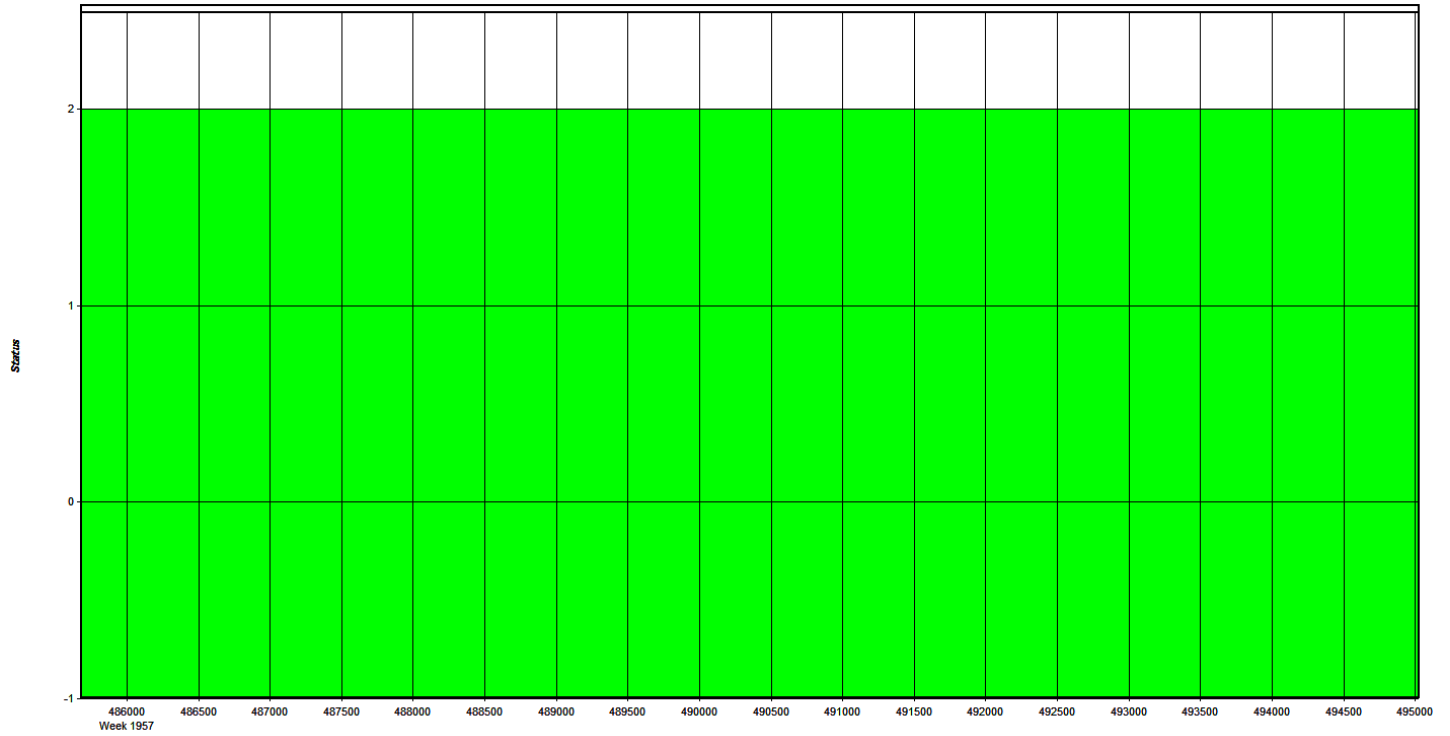
	Flight 1	Flight 2	Flight 3	Flight 4
Wheels Up	8:14:00 PM			
Wheels Down	10:44:00 AM			
Begin Hobbs	1191.3			
End Hobbs	1193.8			
On-line Hobbs: 1.8		Mob Hobbs: 0.7		

Notes

Had a TDC error twice this morning, once at startup and again in the air. In air startup had trouble finding pos. Did a restart, wagged the tail of the plane, ups and downs, and it found itself. 10 minutes, then started ACQ. Northern block east ends of the lines were too high when entering the line, but this had overlap from the block we flew first so we continued on.

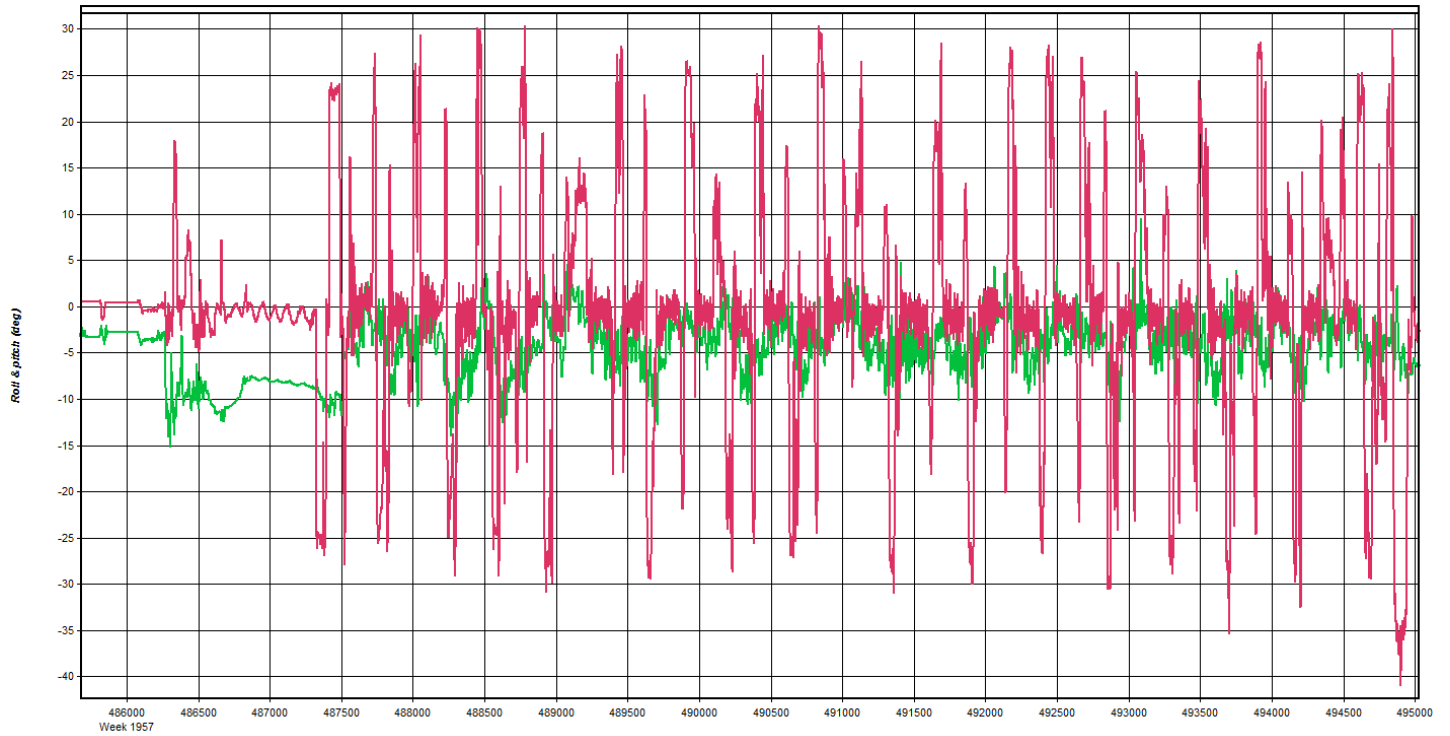
Jul 14, 2017-A (N704MD, SN8239)





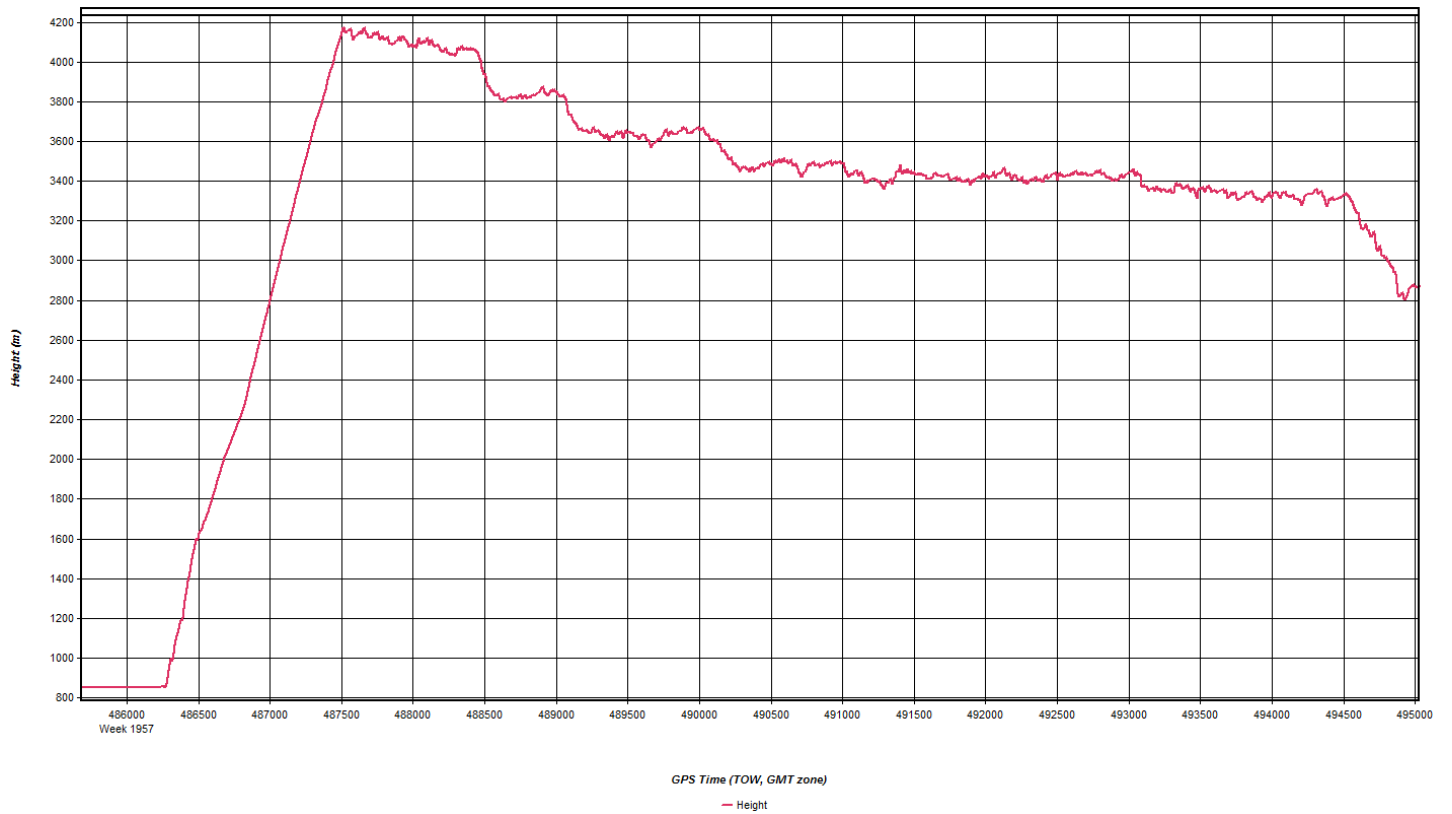
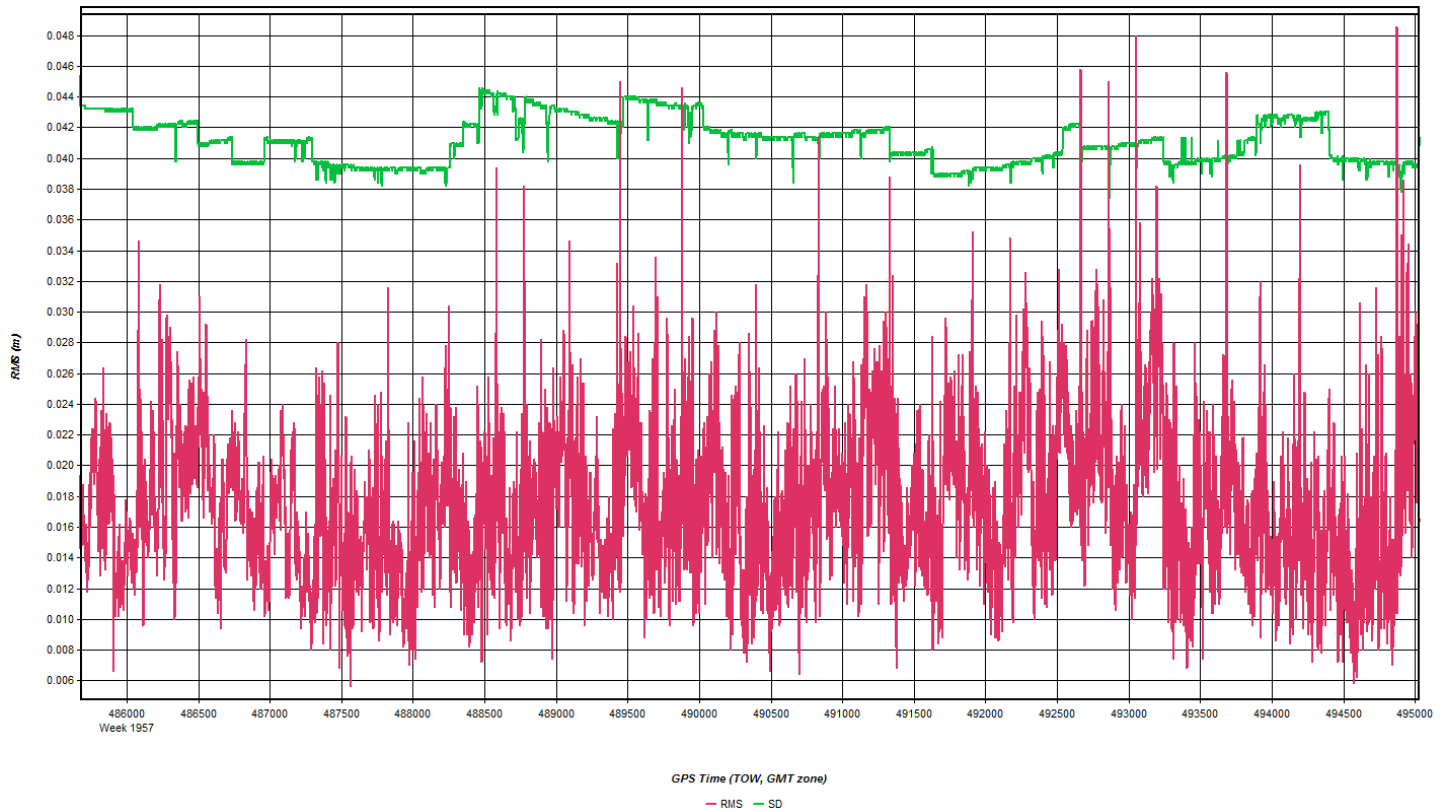
GPS Time (TOW, GMT zone)

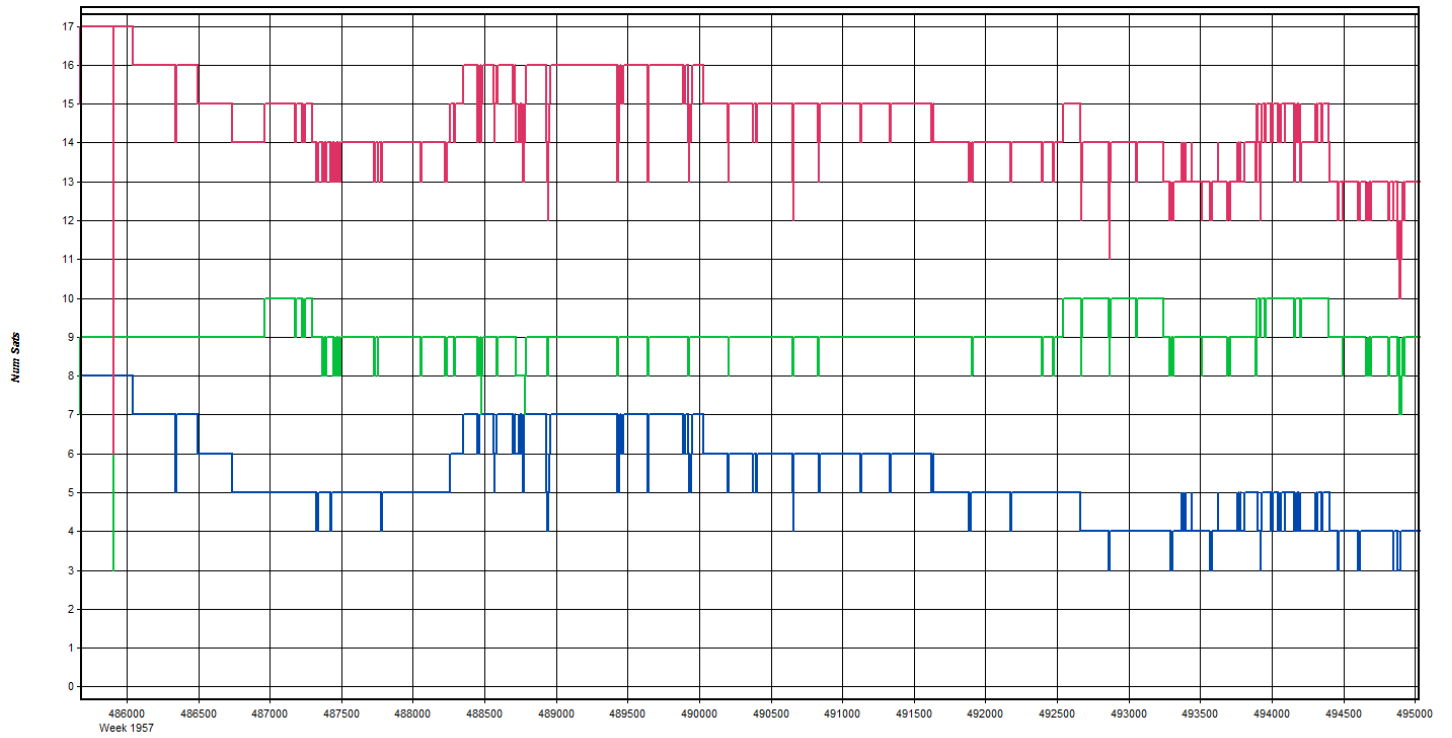
— Float — Forward Fixed — Reverse Fixed — Fixed (2 or more)



GPS Time (TOW, GMT zone)

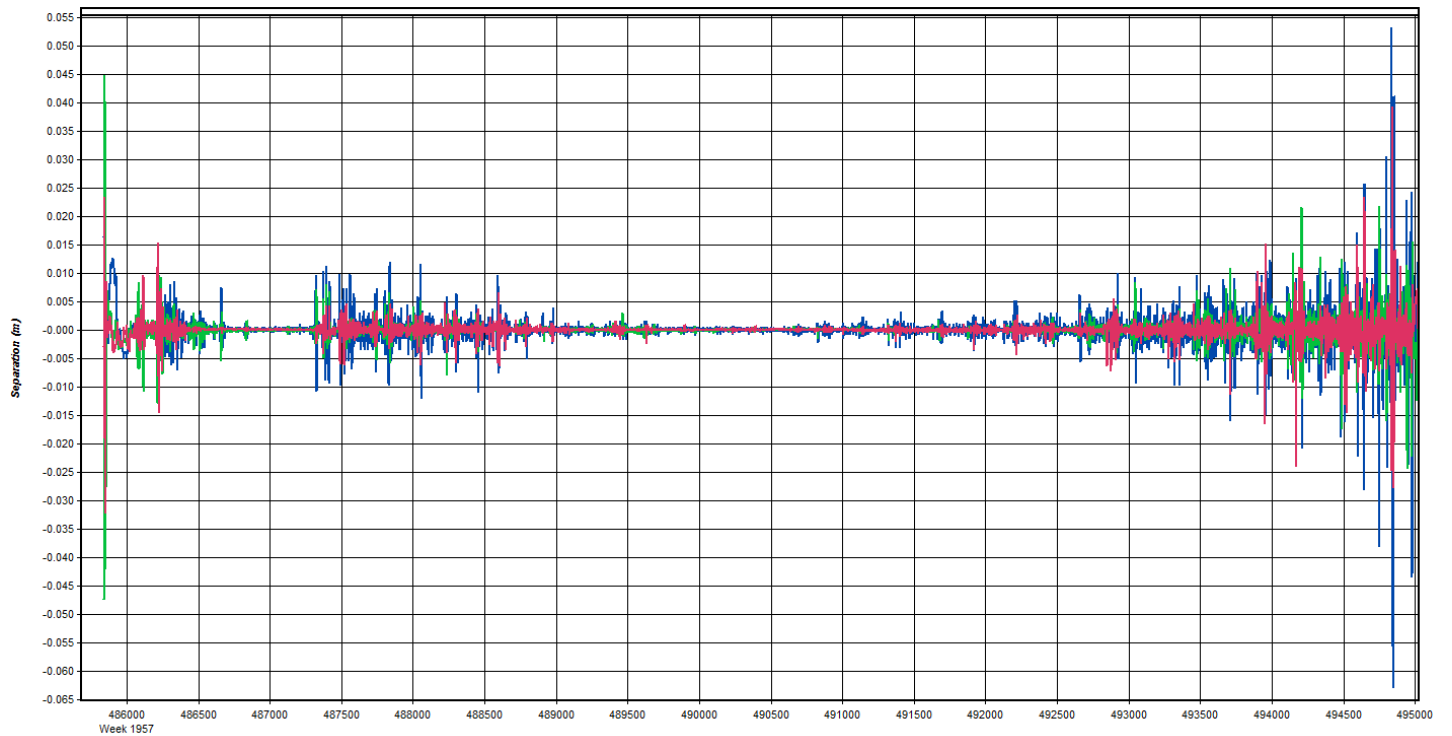
— Roll — Pitch





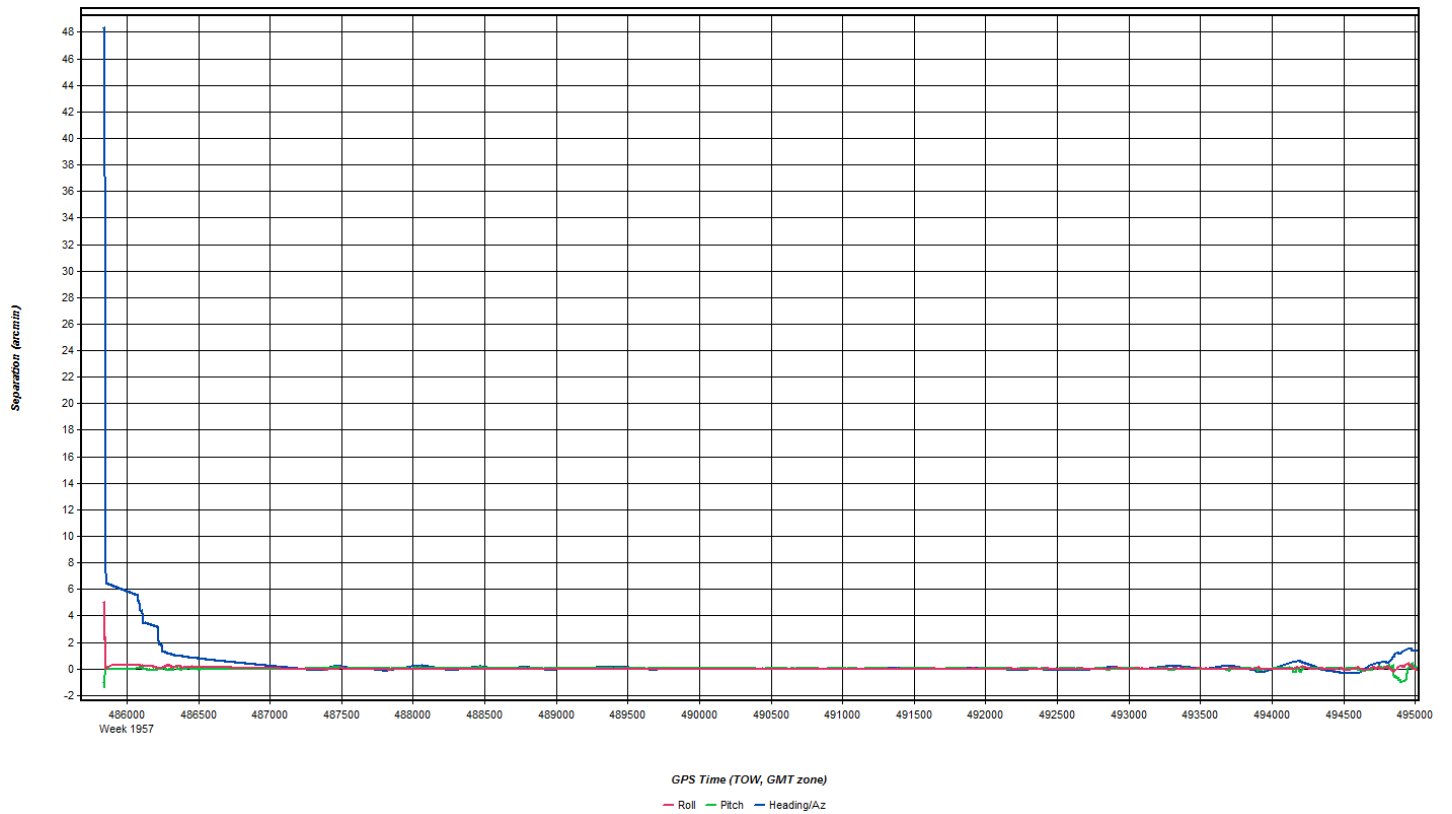
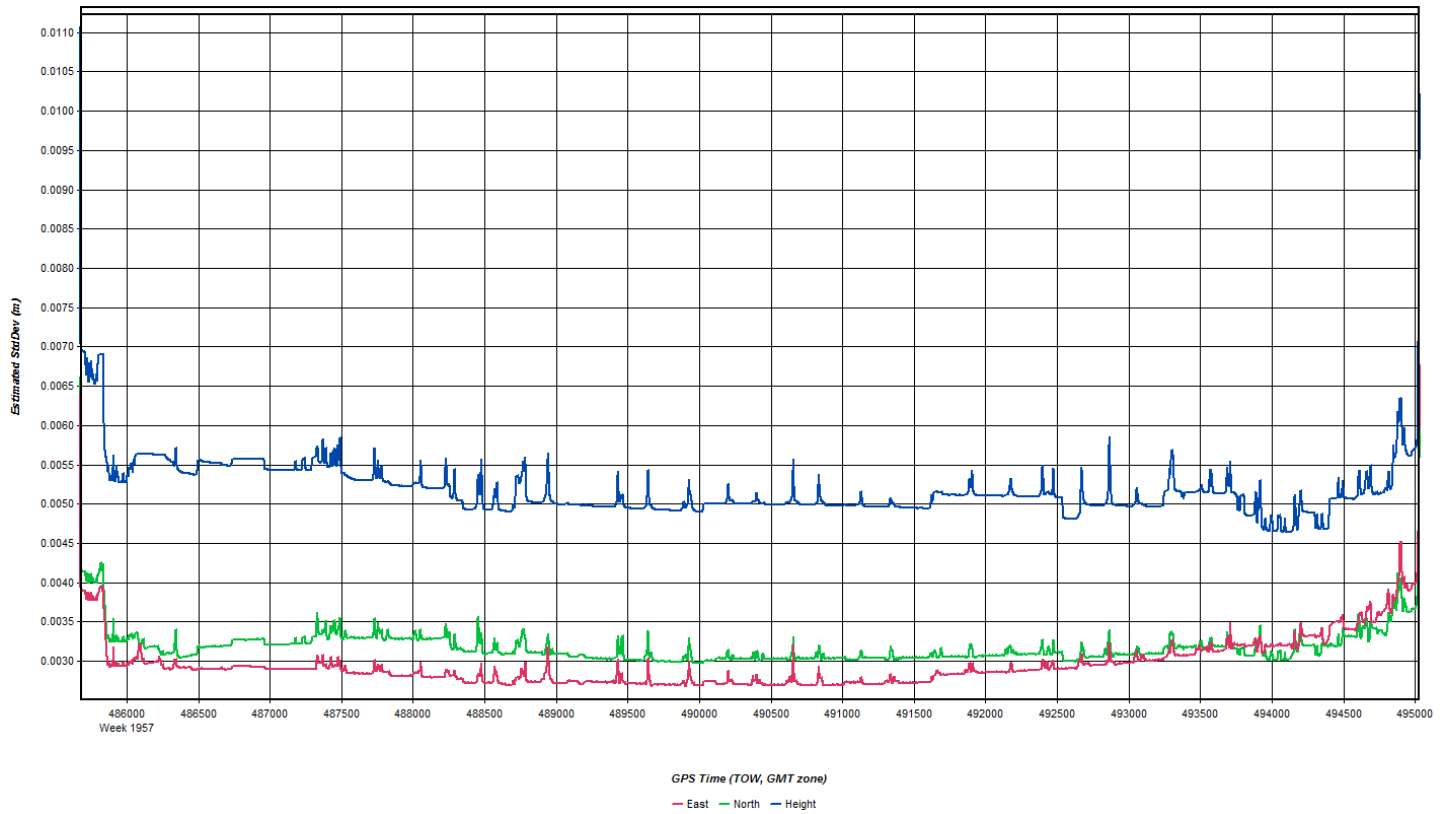
GPS Time (TOW, GMT zone)

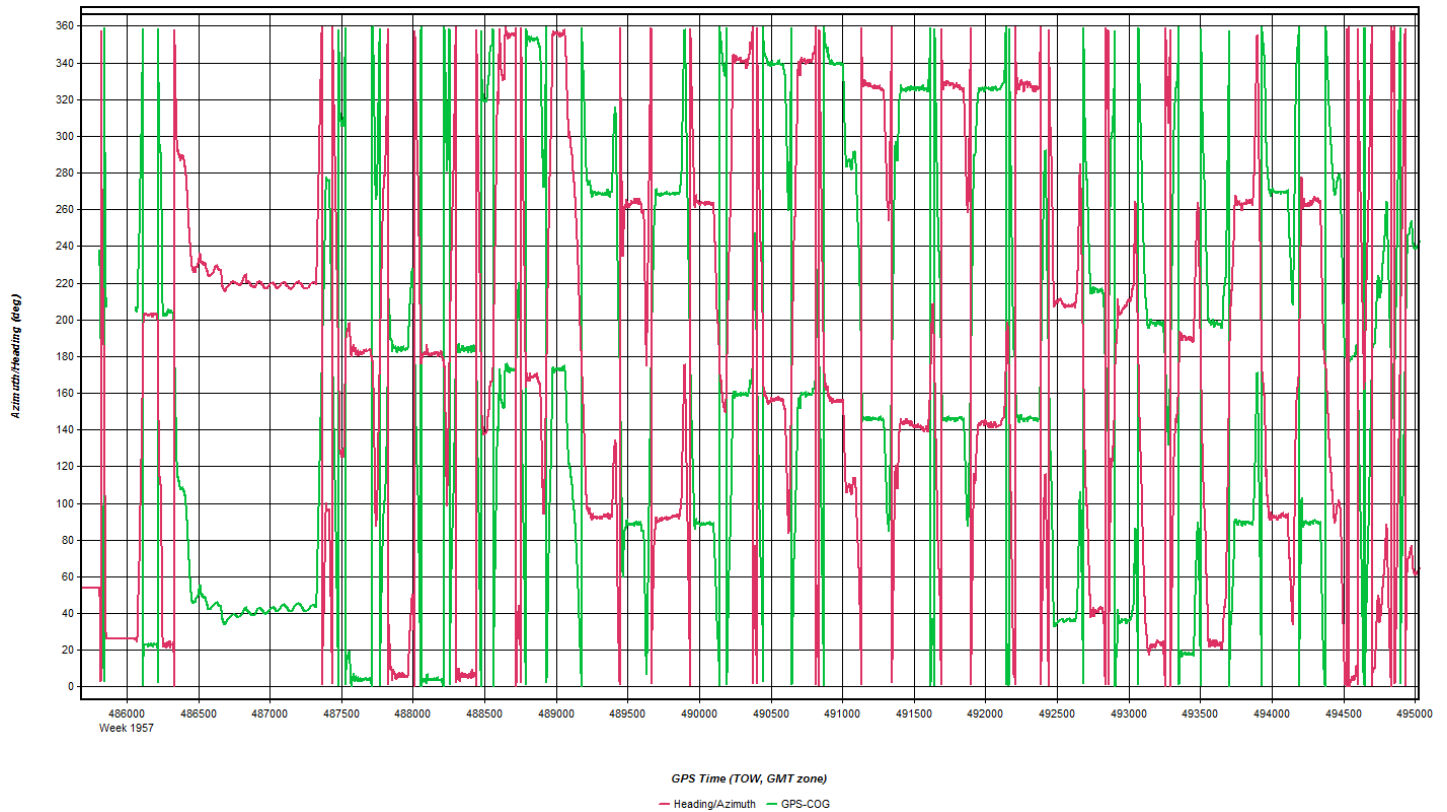
— Num Sats — GPS — GLONASS — BeiDou — Galileo — QZSS



GPS Time (TOW, GMT zone)

— East — North — Up





Coordinate/Antenna Settings

Master Remote

Base Station
 1: UTHN Name: UTHN Disabled
 File: E:\Proc\29083_Utah\29803_Utah_2016\20170714_FMSL_WACou

Coordinates
 Latitude: North 37 11 08.50150 Coord. options
 Longitude: West 113 17 55.20863 Save to Favorites
 Ellipsoidal height: 1013.602 m
 Datum: WGS84 Proc Datum: WGS84
 Epoch: year

Antenna Height
 From station file: TRM55971.00, NONE View STA File
 Antenna profile: TRM55971.00 Info
 Measured height: 0.000 m
 ARP to L1 offset: 0.067 m
 Applied height: 0.067 m
 Measured to
 ARP
 L1 Phase Centre
 Compute From Slant

OK Cancel

Flight Log

Date: 7/14/2017	Aircraft: N704MD	Sensor: 8239
Project: Utah 2016 LiDAR		Project #: R029083
Flight Mgmt File: FMSL_WACounty_8239_Canyons_60ovlp		
Pilot: Sean Meyer		Sensor Operator: Drew Johnston

	Flight 1	Flight 2	Flight 3	Flight 4
Wheels Up	9:03:00 AM	3:25:00 PM		
Wheels Down	11:42:00 AM	6:27:00 PM		
Begin Hobbs	1981.7	1984.3		
End Hobbs	1984.3	1987.3		
On-line Hobbs: 2		Mob Hobbs: 3.6		

Notes

Lifted and quickly ran through data before our MOB towards Sheboygan. We are in Westminster, CO for the night.