

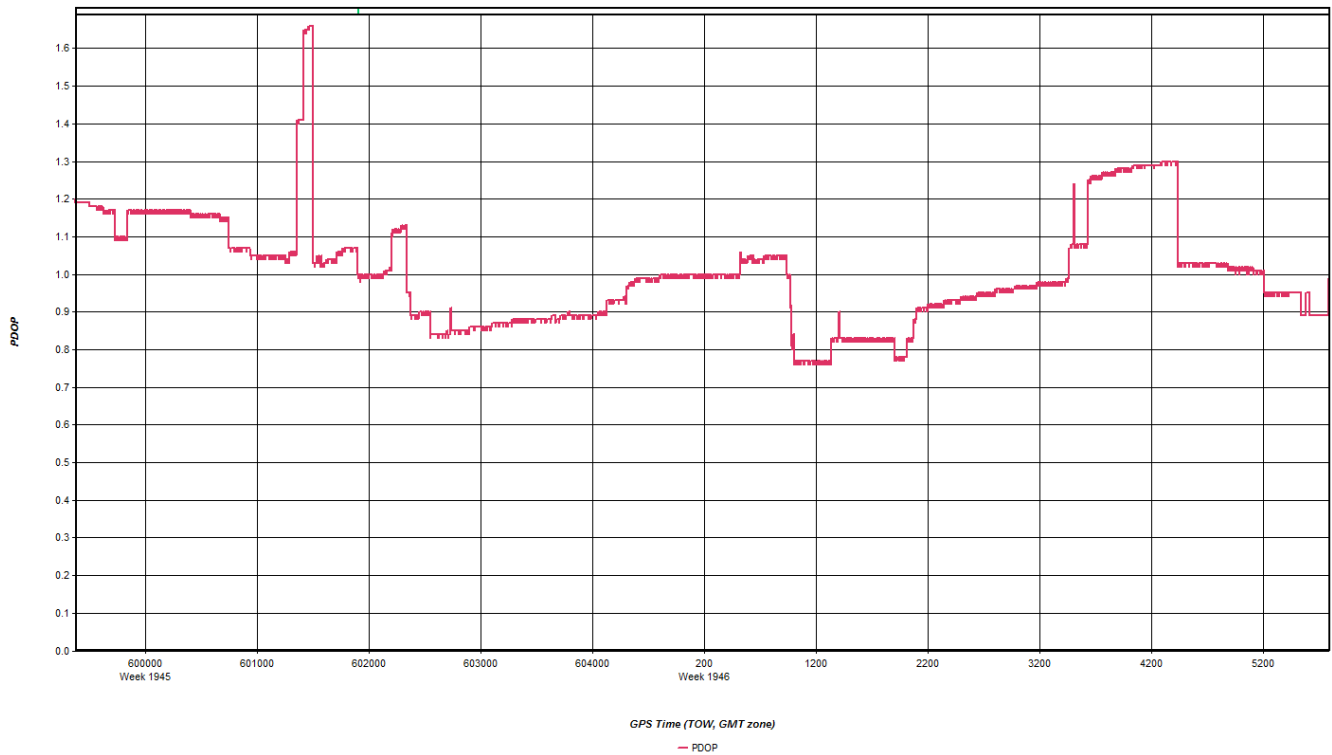
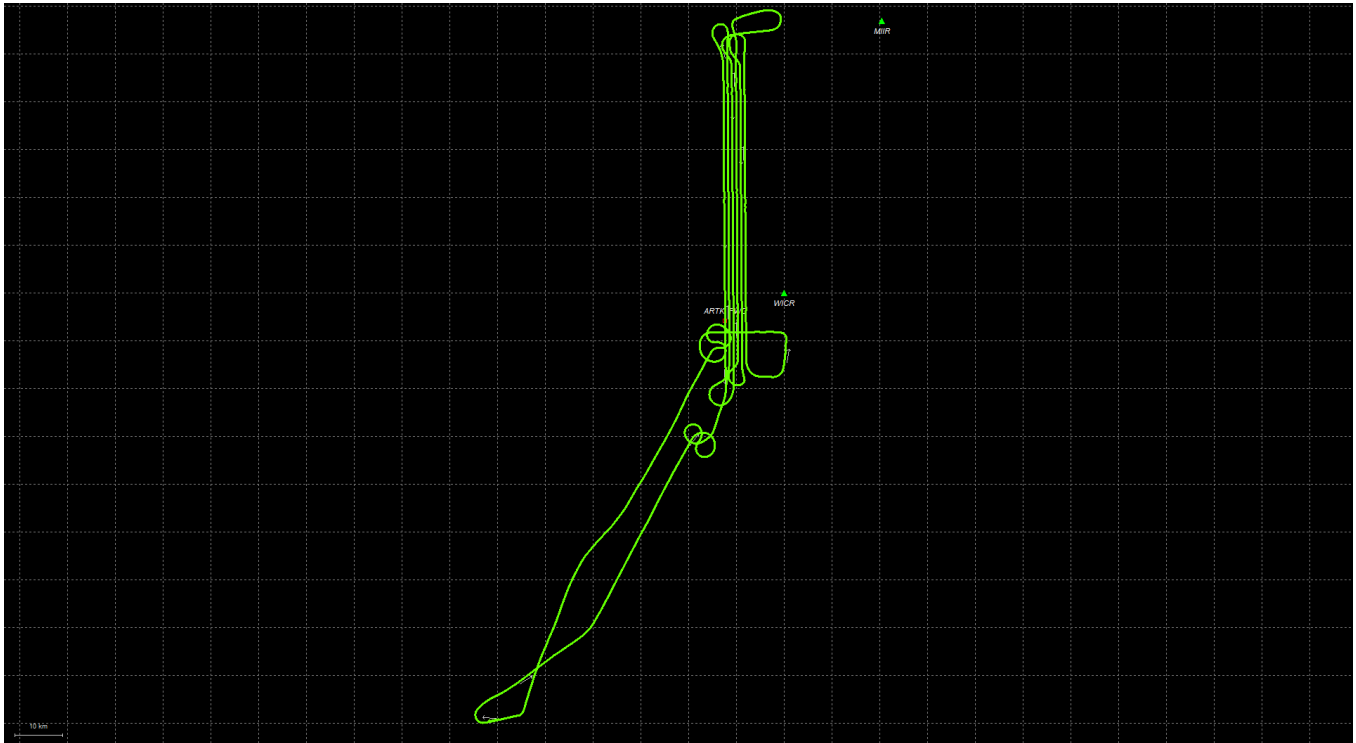
Appendix A

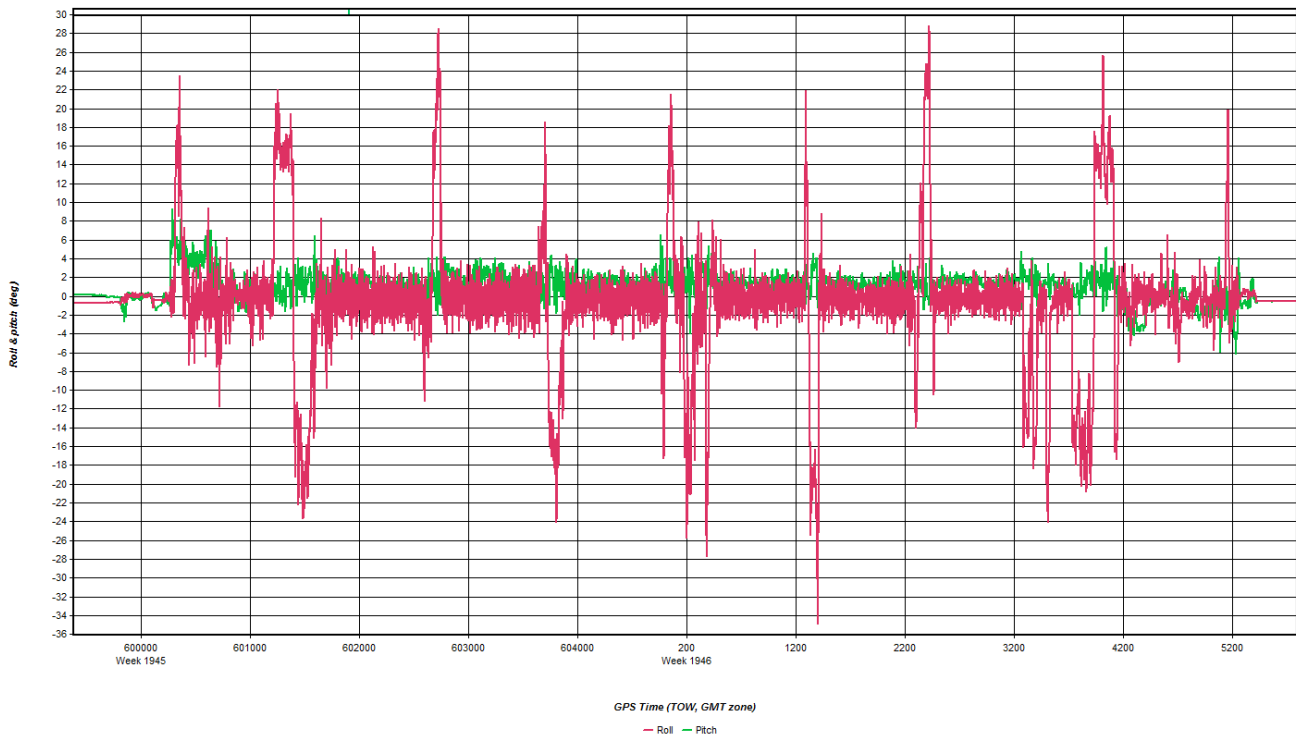
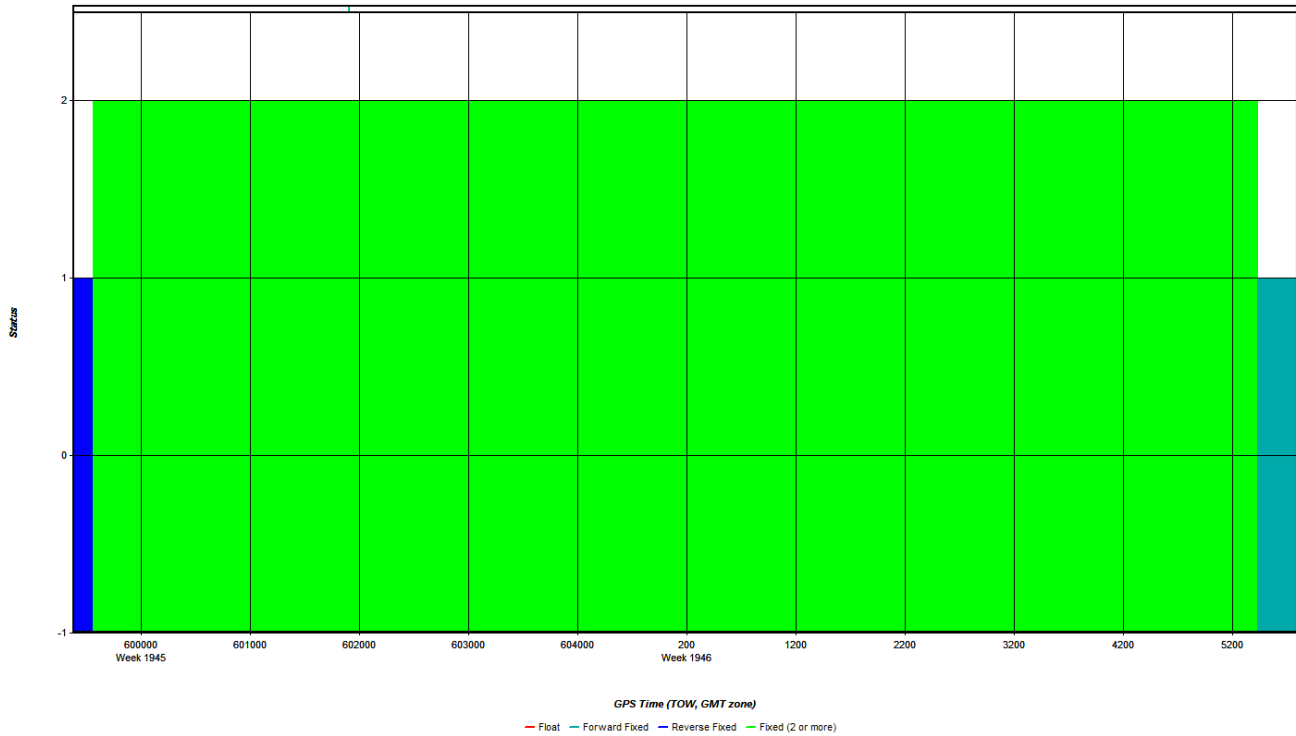
GPS / IMU Processing Statistics Flight Logs

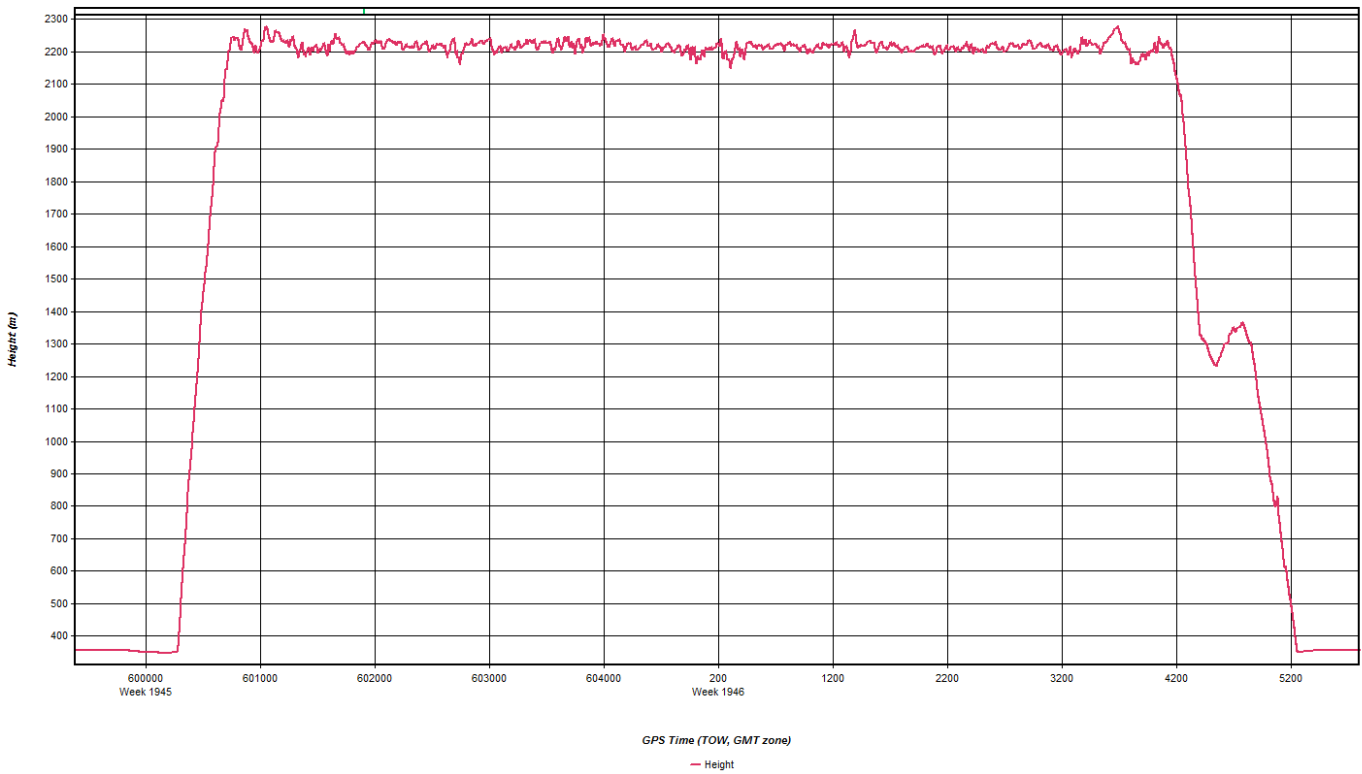
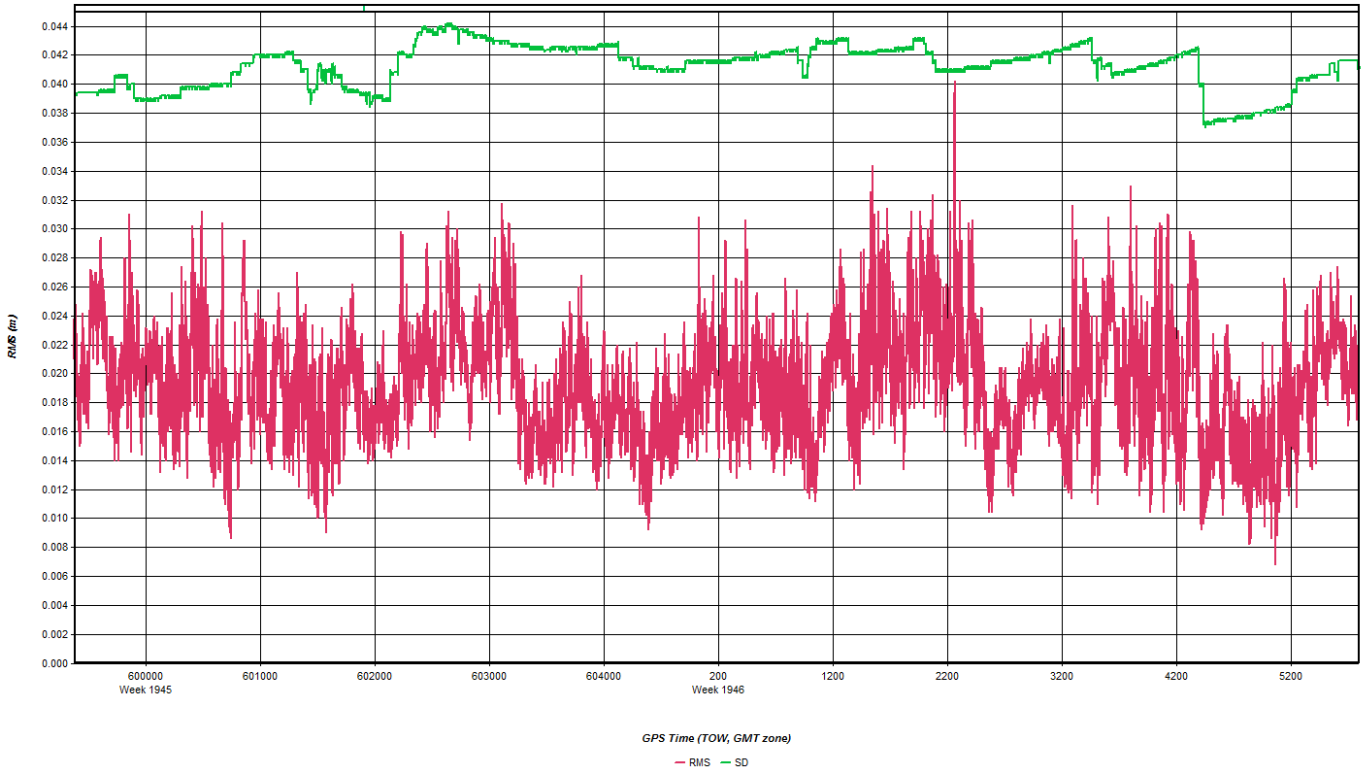
There were seven total lifts. Graph reports generated from processing software and flight logs are found on the following pages.

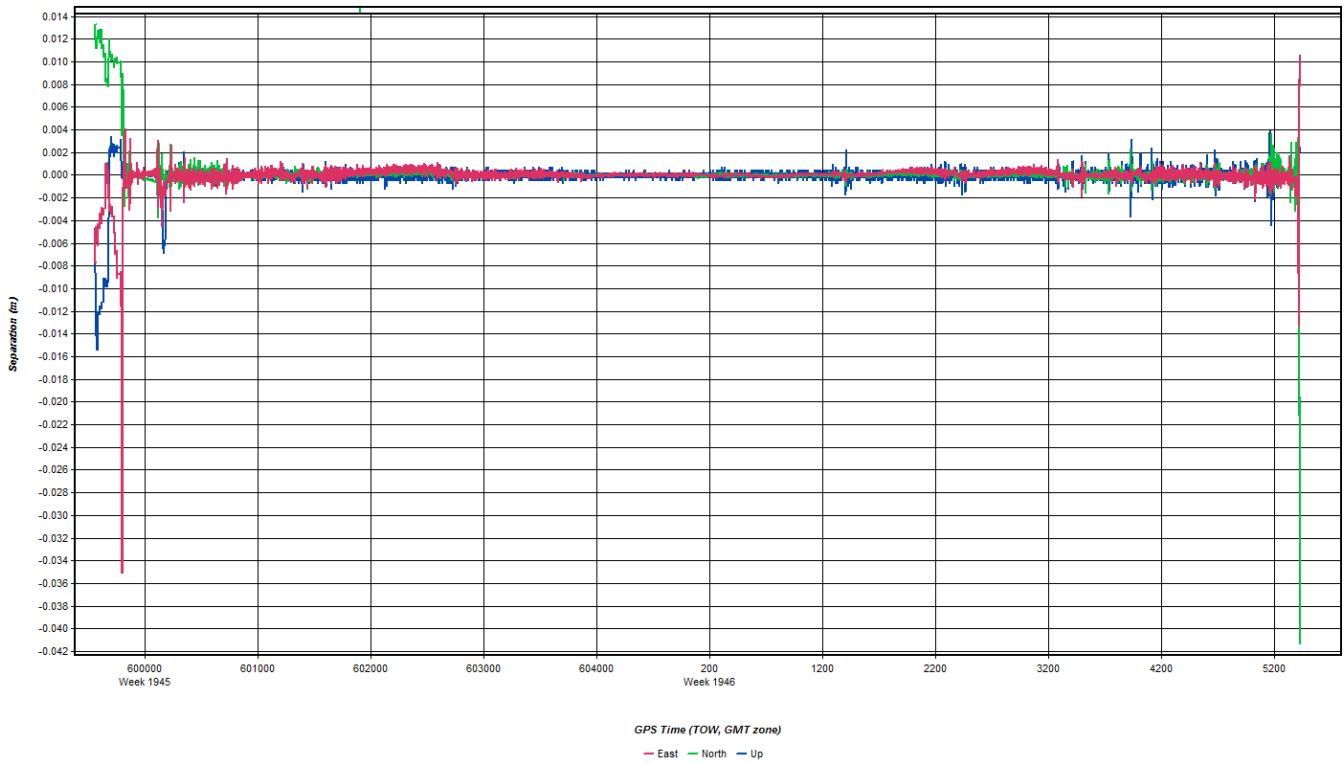
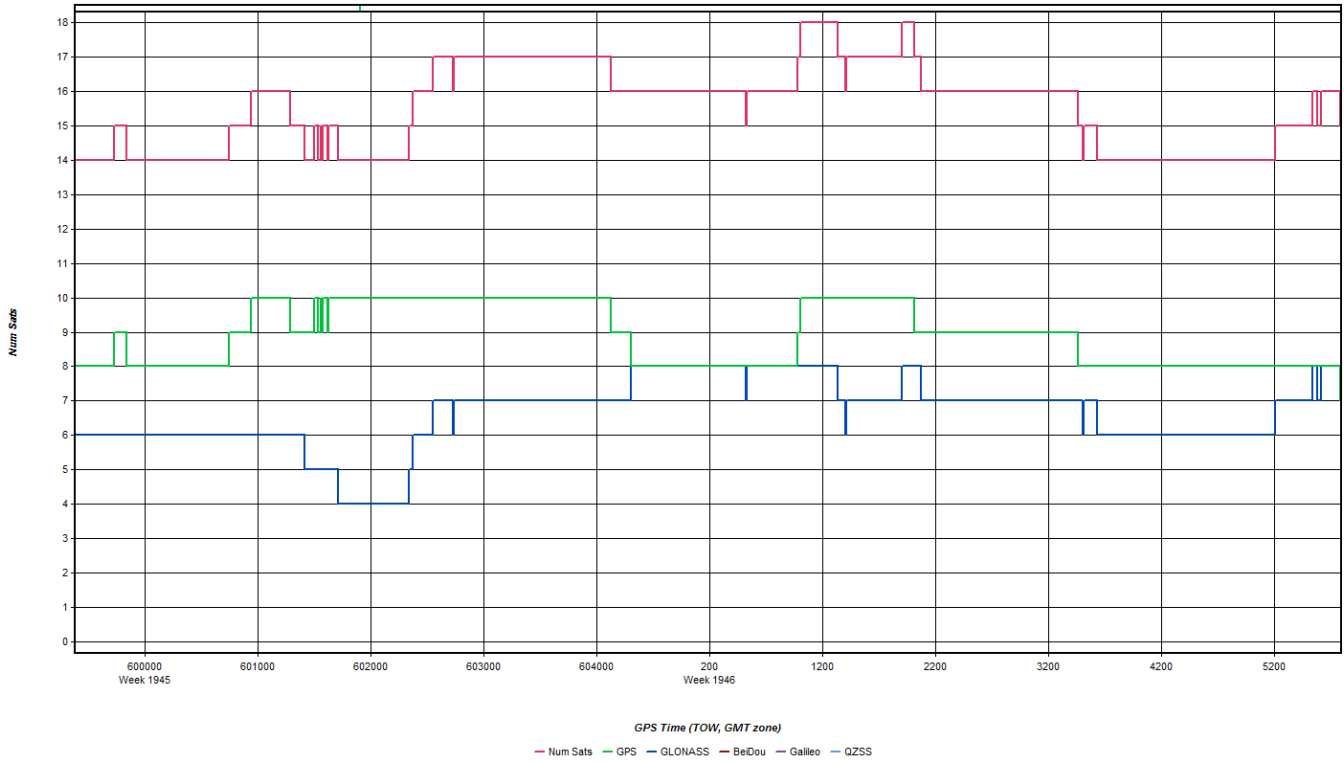
April 22, 2017-B (N262AS, SN7161)	Page 2
Flight Log	Page 9
April 24, 2017-A (N262AS, SN7161)	Page 10
Flight Log	Page 18
April 24, 2017-A (N73TM, SN7178)	Page 19
Flight Log	Page 26
April 24, 2017-B (N262AS, SN7161)	Page 27
Flight Log	Page 35
April 24, 2017-C (N262AS, SN7161)	Page 36
Flight Log	Page 43
April 25, 2017-A (N262AS, SN7161)	Page 45
Flight Log	Page 53
April 25, 2017-B (N262AS, SN7161)	Page 54
Flight Log	Page 62

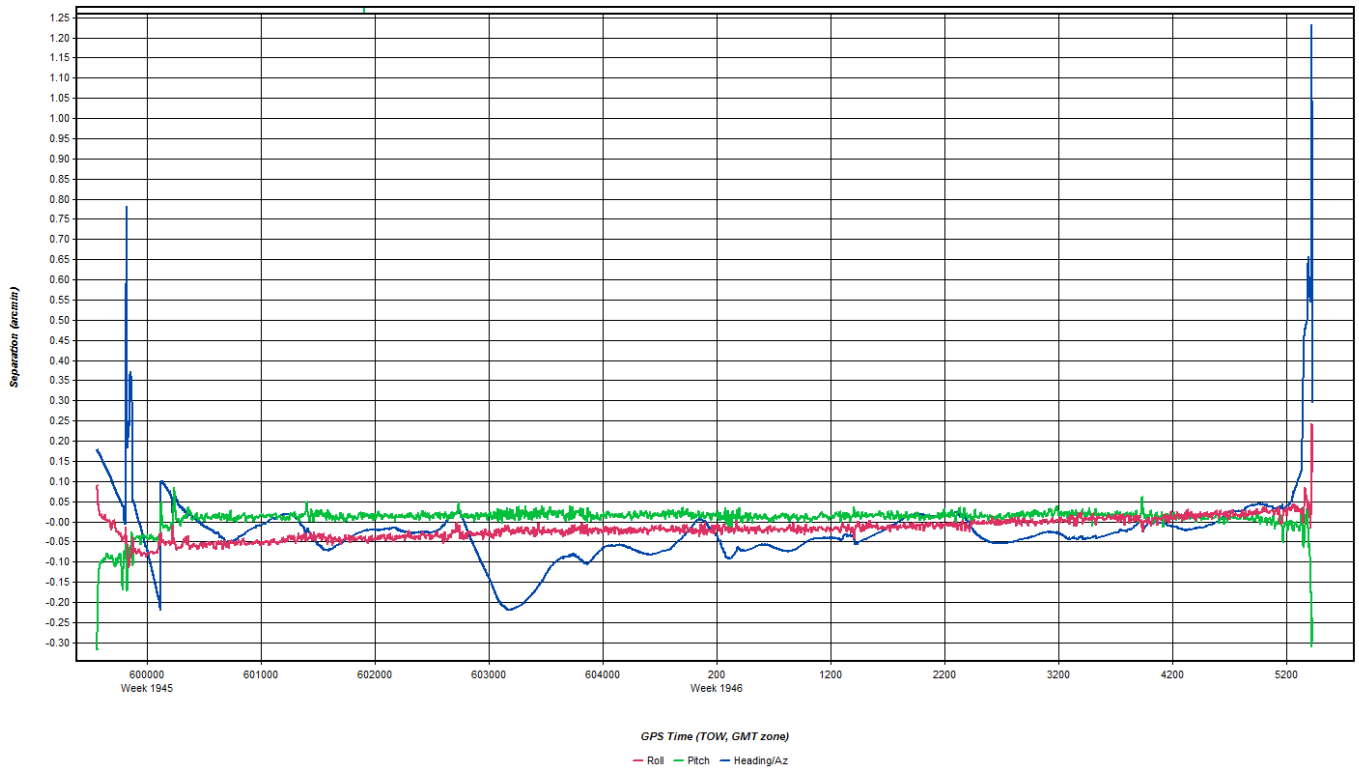
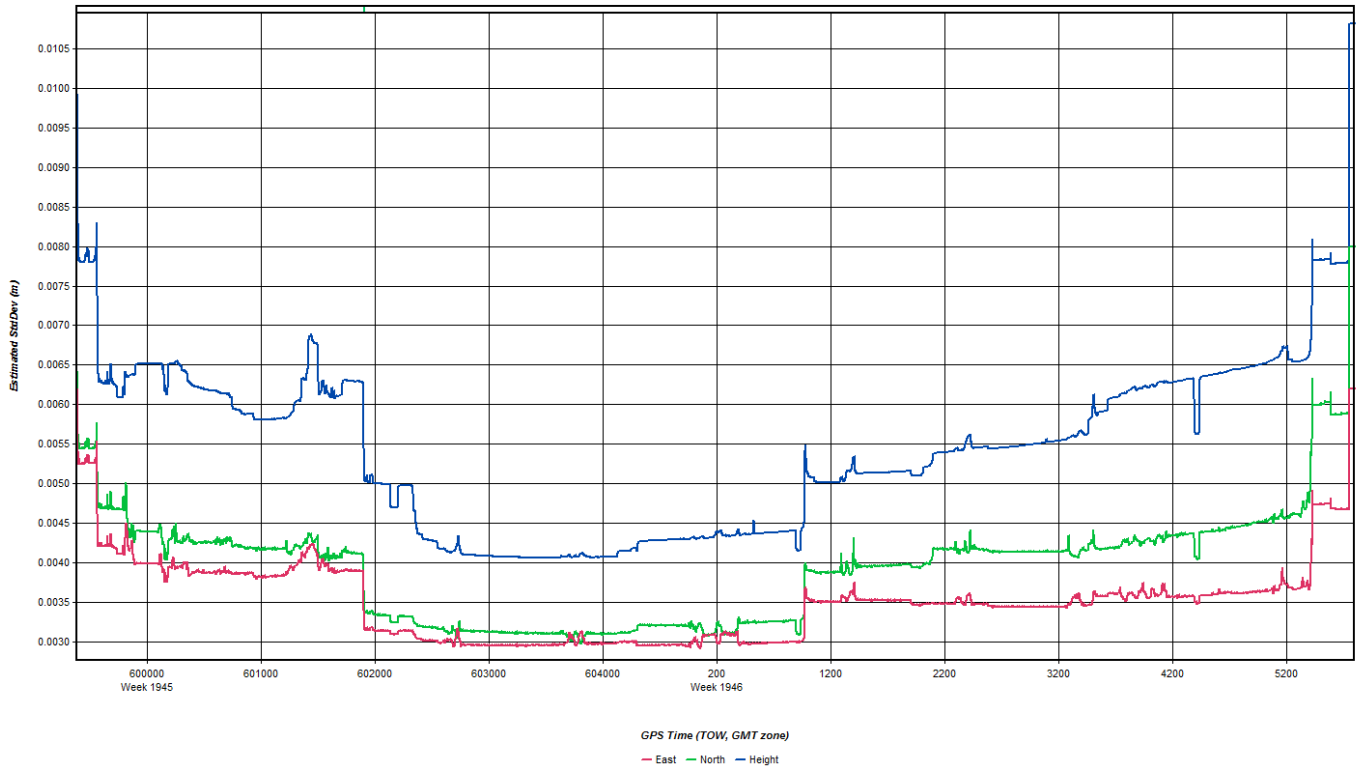
Apr 22, 2017-B N262AS, SN7161)











Coordinate/Antenna Settings ? X

Master Remote

Base Station
 2: MIIR Name: MIIR Disabled
 File: F:\Proc\28571_WROC_Sawyer_7178\Jonathoan_Swann_4-25-17

Coordinates
 Latitude: North 46 04 49.37197 Coord. options
 Longitude: West 88 38 00.11113 Save to Favorites
 Ellipsoidal height: 470.982 m
 Datum: WGS84 Proc Datum: WGS84
 Epoch: year

Antenna Height
 From station file: LEIAT504GG, LEIS View STA File
 Antenna profile: LEIAT504GG, LEIS Info
 Measured height: 0.000 m
 ARP to L1 offset: 0.087 m
 Applied height: 0.087 m
 Measured to
 ARP
 L1 Phase Centre
 Compute From Slant

OK Cancel

Coordinate/Antenna Settings ? X

Master Remote

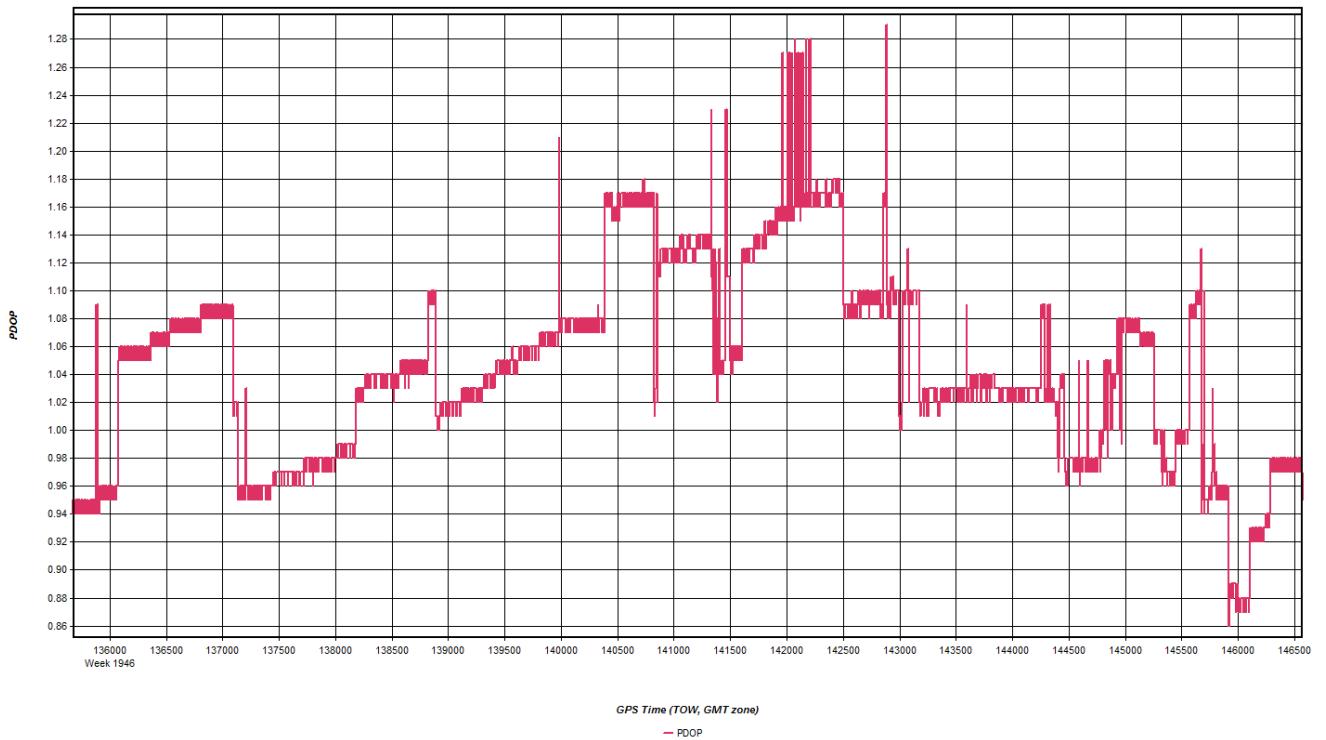
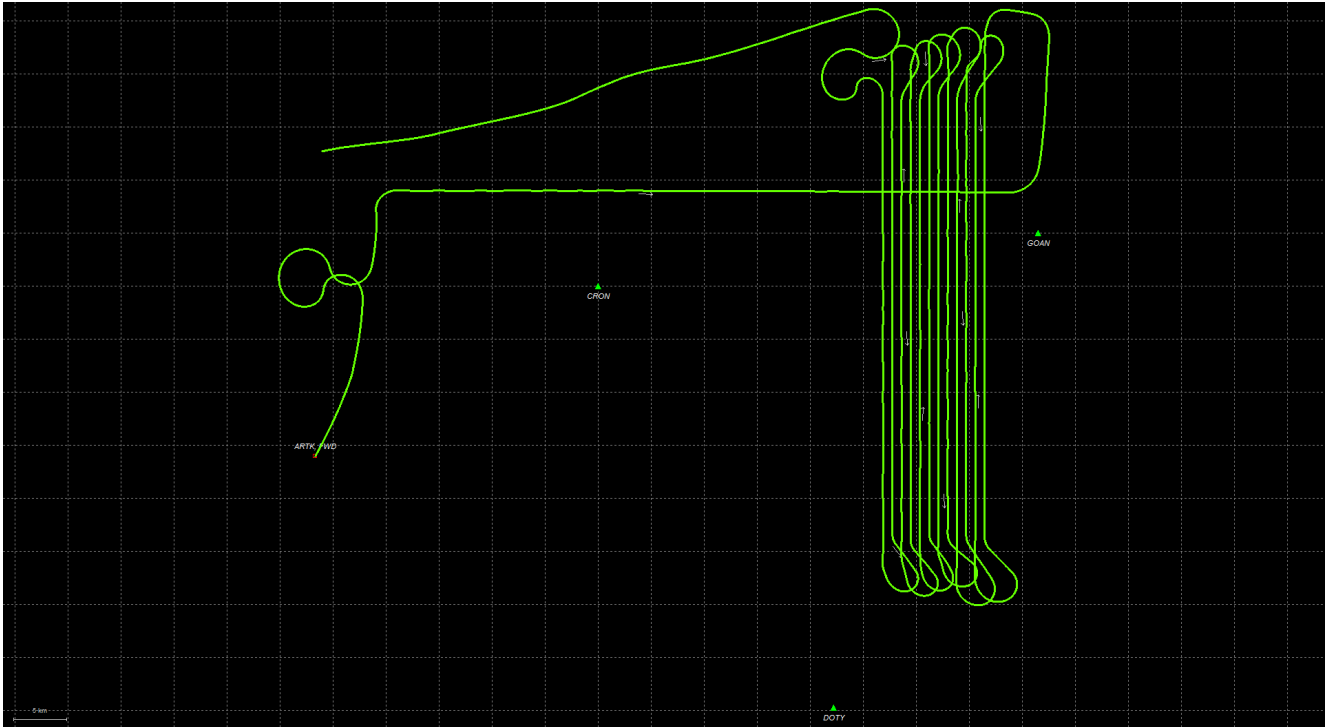
Base Station
 1: WICR Name: WICR Disabled
 File: F:\Proc\28571_WROC_Sawyer_7178\Jonathoan_Swann_4-25-17

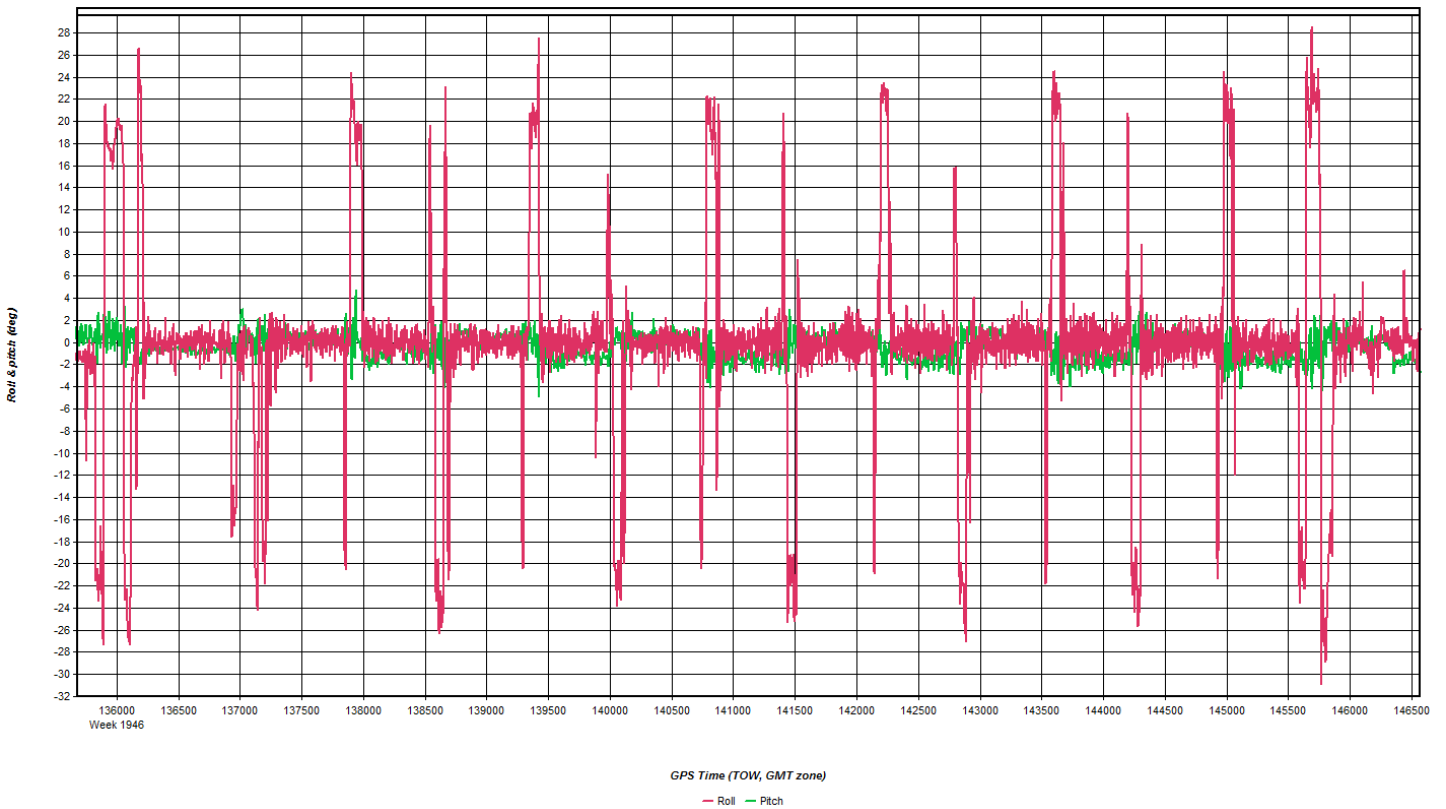
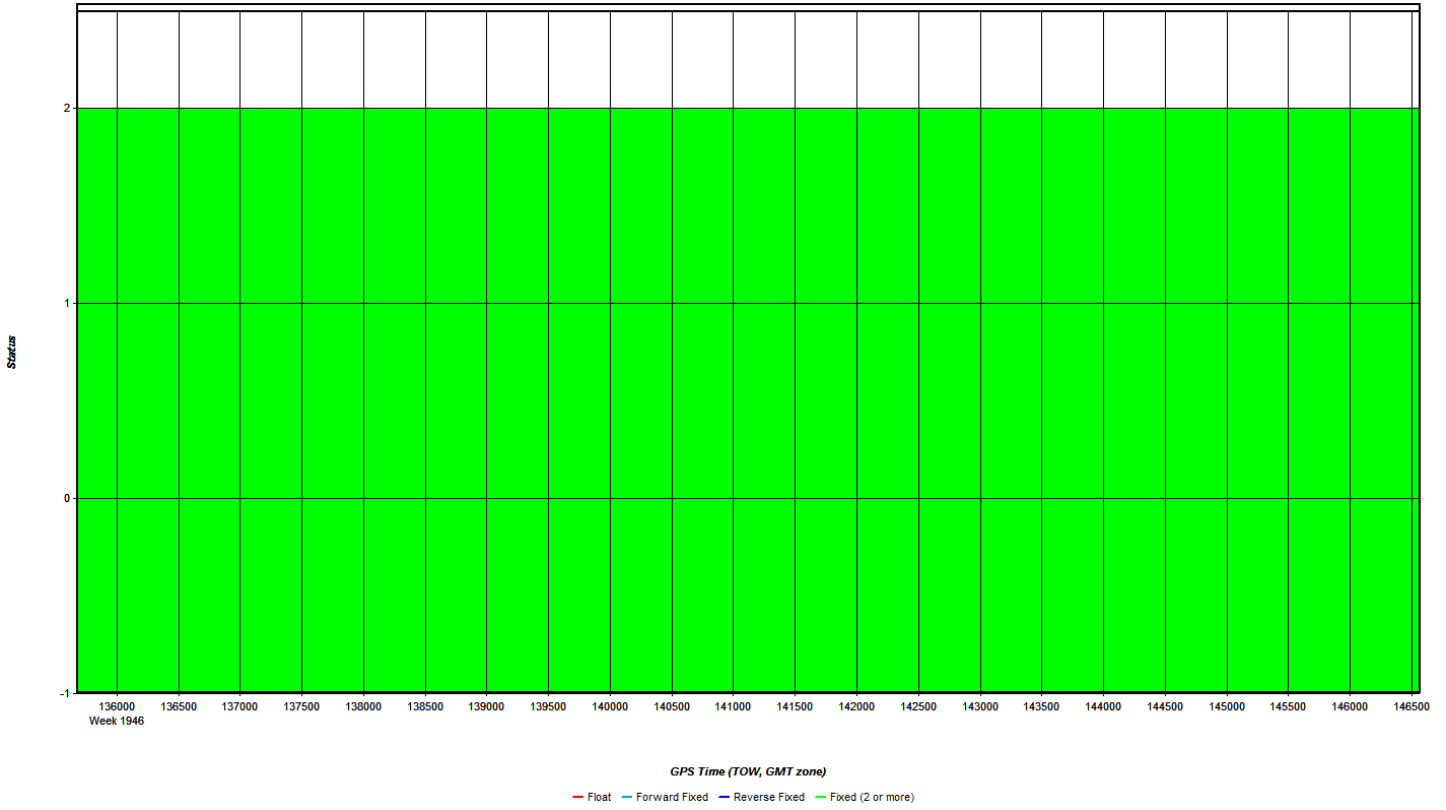
Coordinates
 Latitude: North 45 34 35.03924 Coord. options
 Longitude: West 88 53 30.43926 Save to Favorites
 Ellipsoidal height: 465.376 m
 Datum: WGS84 Proc Datum: WGS84
 Epoch: year

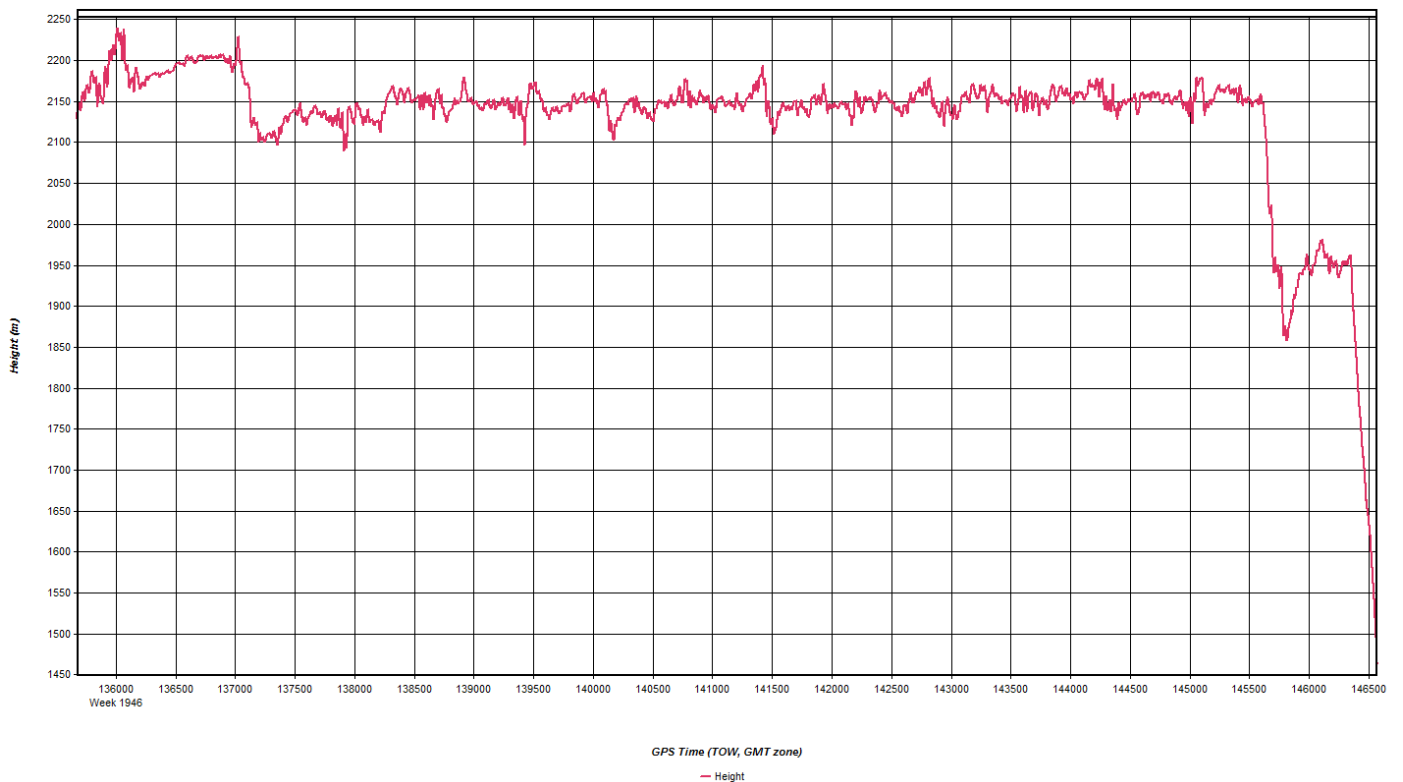
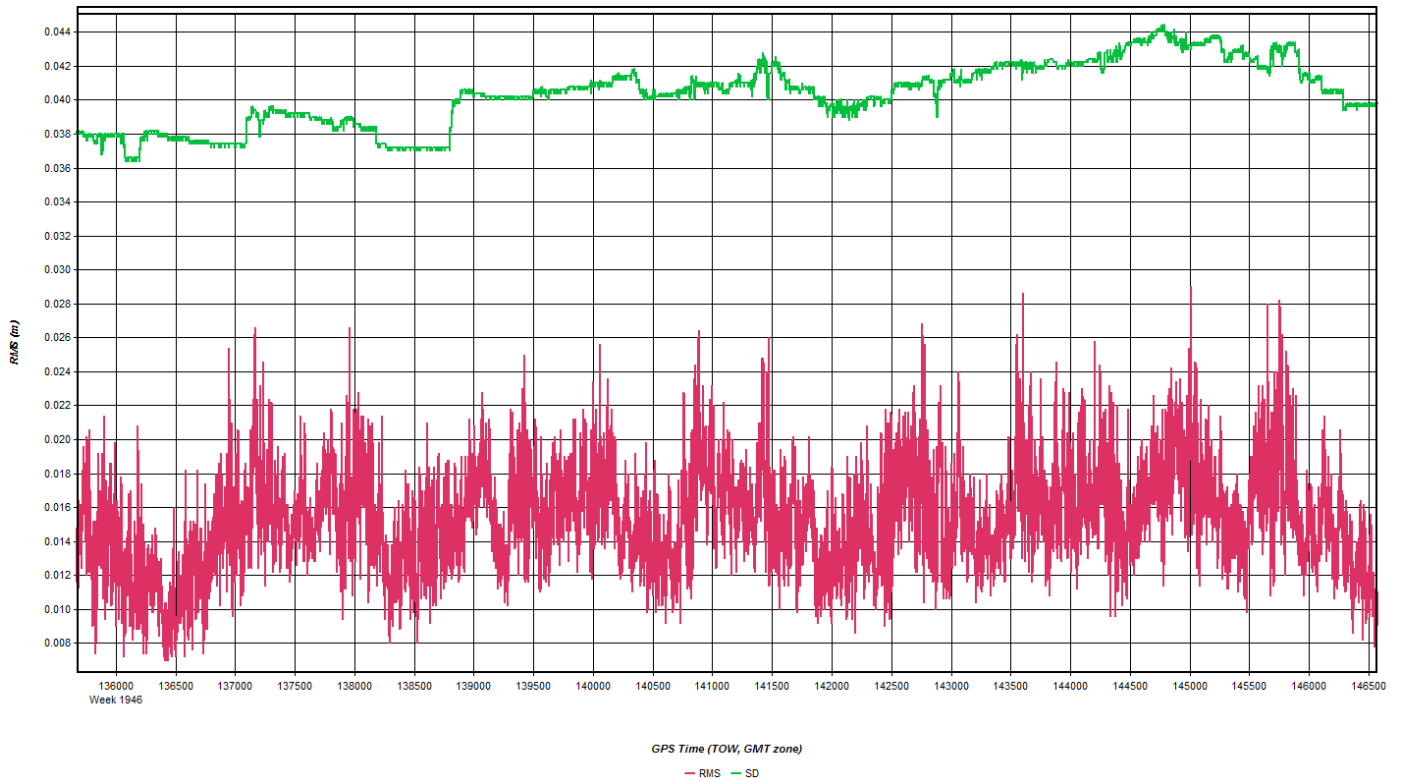
Antenna Height
 From station file: TRM57971.00, NONE View STA File
 Antenna profile: TRM57971.00 Info
 Measured height: 0.000 m
 ARP to L1 offset: 0.067 m
 Applied height: 0.067 m
 Measured to
 ARP
 L1 Phase Centre
 Compute From Slant

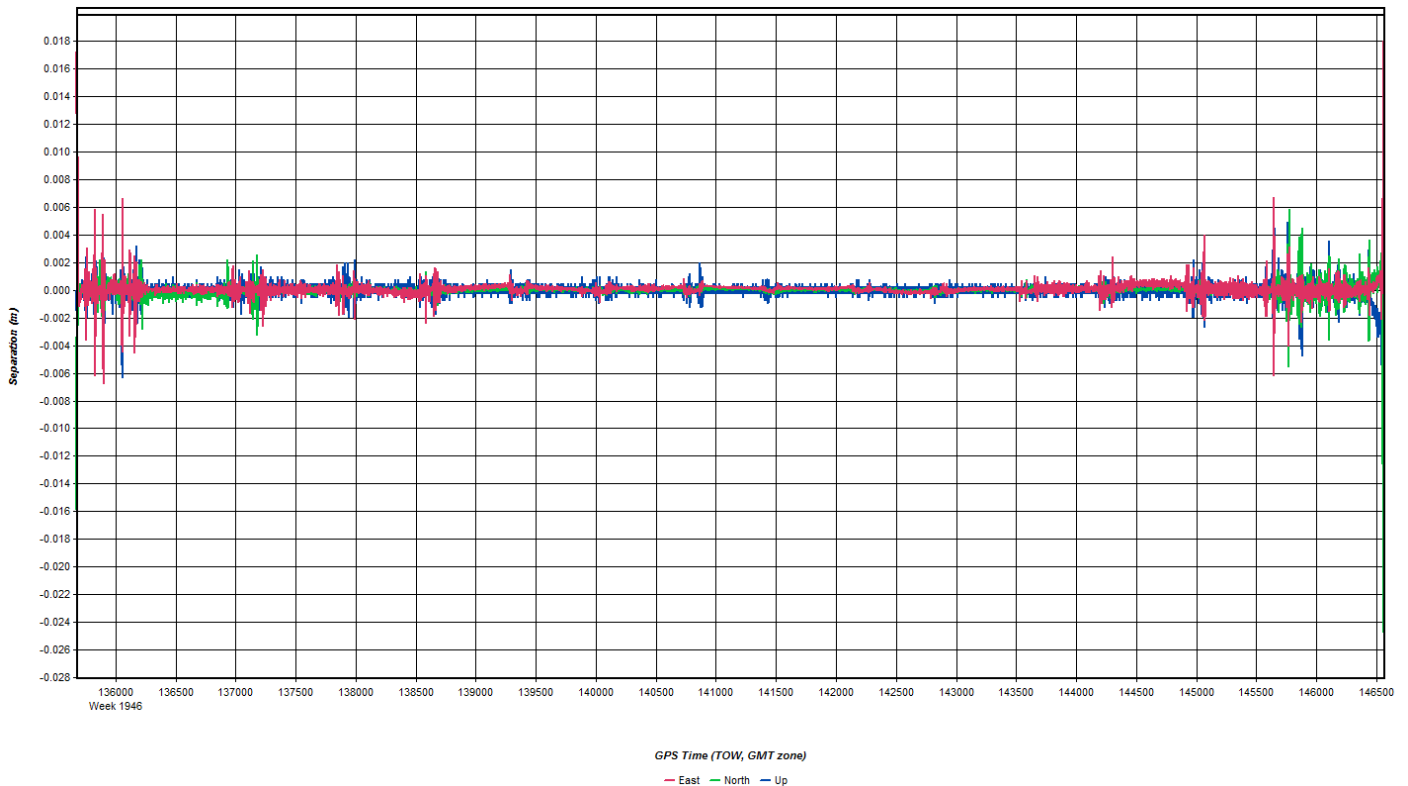
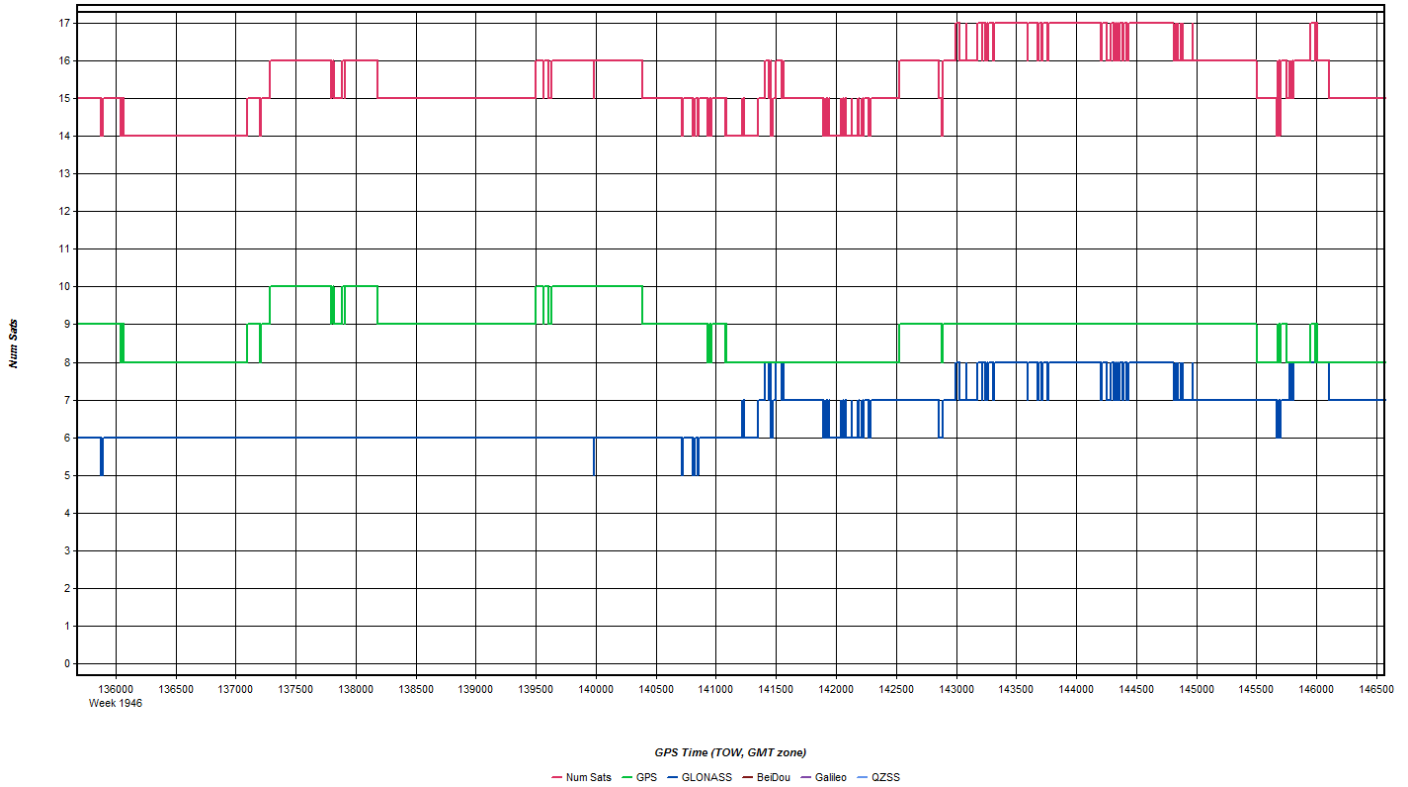
OK Cancel

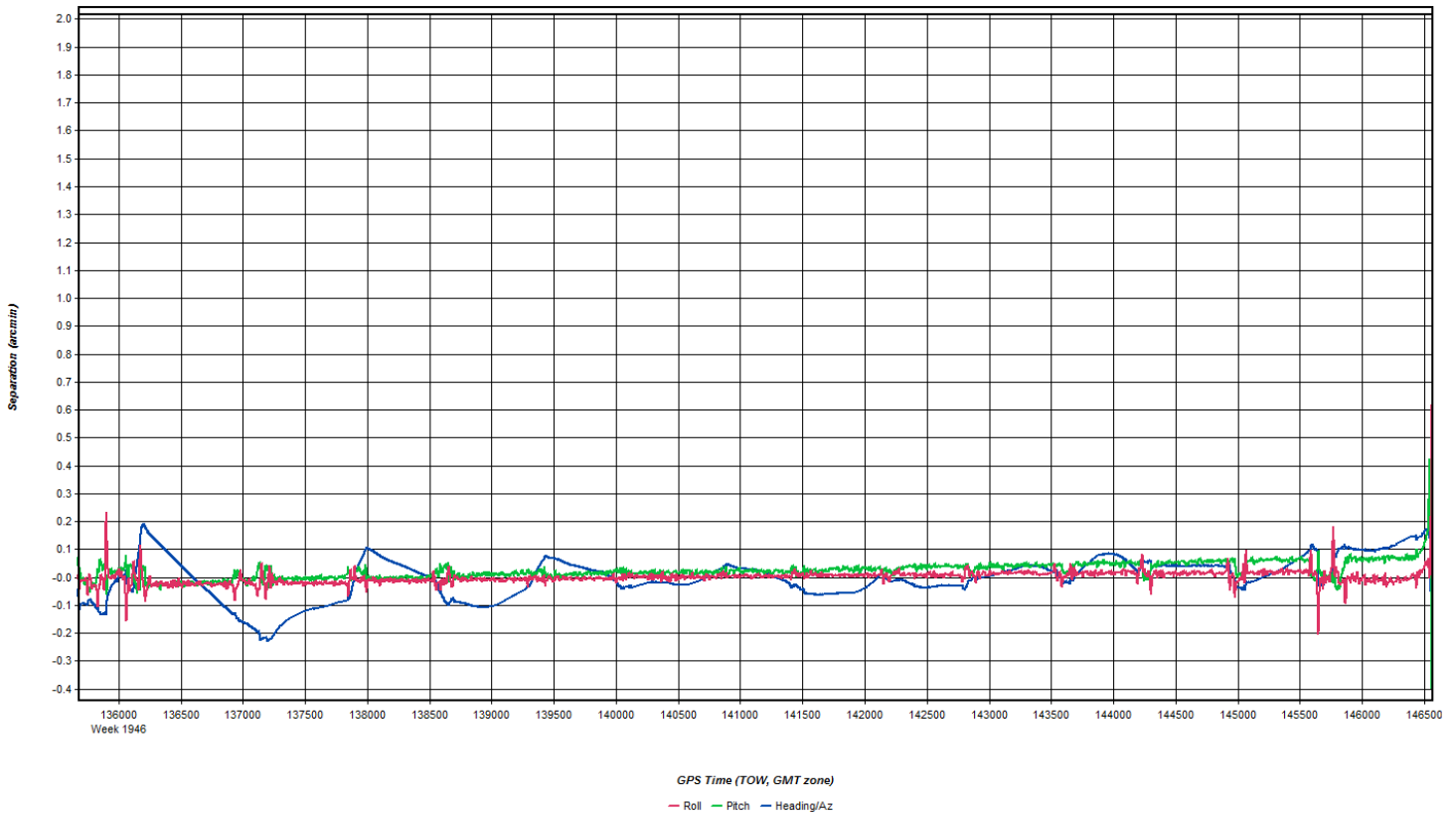
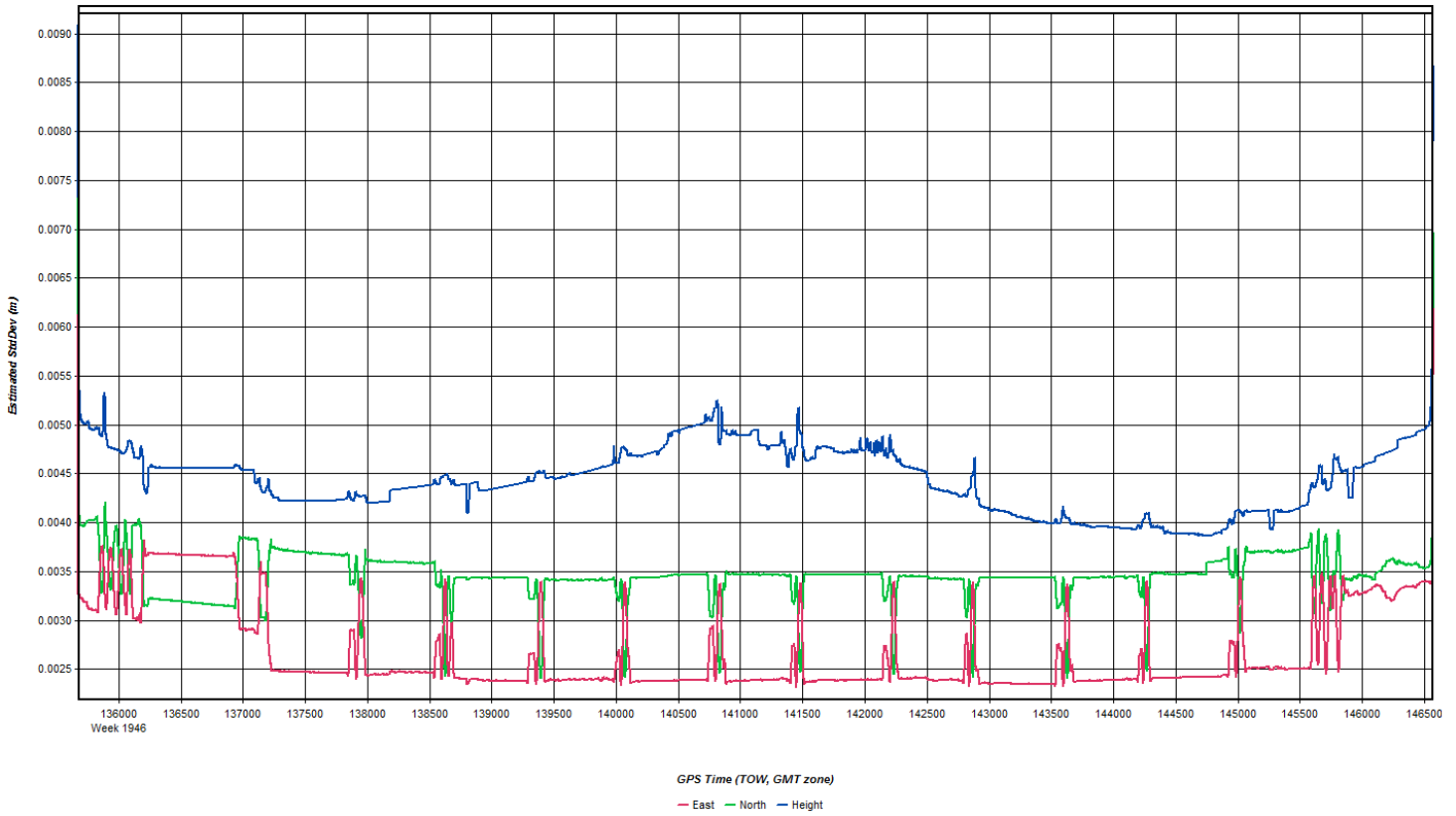
Apr 24, 2017-A (N262AS, SN7161)











Coordinate/Antenna Settings ? X

Master Remote

Base Station
 1: CRON Name: CRON Disabled
 File: F:\Proc\28571_WROC_Sawyer_7178\Doug_Carey_4-26-17\Forest I

Coordinates
 Latitude: North 45 34 35.03872 Coord. options
 Longitude: West 88 53 30.43878 Save to Favorites
 Ellipsoidal height: 465.352 m
 Datum: WGS84 Proc Datum: WGS84
 Epoch: year

Antenna Height
 From station file: TRM57971.00, NONE View STA File
 Antenna profile: TRM57971.00 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 ? X

Master Remote

Base Station
 2: DOTY Name: DOTY Disabled
 File: F:\Proc\28571_WROC_Sawyer_7178\Doug_Carey_4-26-17\Forest I

Coordinates
 Latitude: North 45 13 10.95151 Coord. options
 Longitude: West 88 36 24.30725 Save to Favorites
 Ellipsoidal height: 336.258 m
 Datum: WGS84 Proc Datum: WGS84
 Epoch: year

Antenna Height
 From station file: TRM57971.00, NONE View STA File
 Antenna profile: TRM57971.00 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 ? X

Master Remote

Base Station
 3: GOAN Name: GOAN Disabled
 File: F:\Proc\28571_WROC_Sawyer_7178\Doug_Carey_4-26-17\Forest t

Coordinates
 Latitude: North 45 37 16.91176 Coord. options
 Longitude: West 88 21 36.15910 Save to Favorites
 Ellipsoidal height: 411.566 m
 Datum: WGS84 Proc Datum: WGS84
 Epoch: year

Antenna Height
 From station file: TRM57971.00, NONE View STA File
 Antenna profile: TRM57971.00 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: 4-24-17
 LID: (A) B C D E Pg. 1 of 1

Quantum Spatial
 Airborne LIDAR Data Collection Log Sheet :: Quantum Spatial, Inc
(email log daily to flight_log_distribution_list@quantumspatial.com)

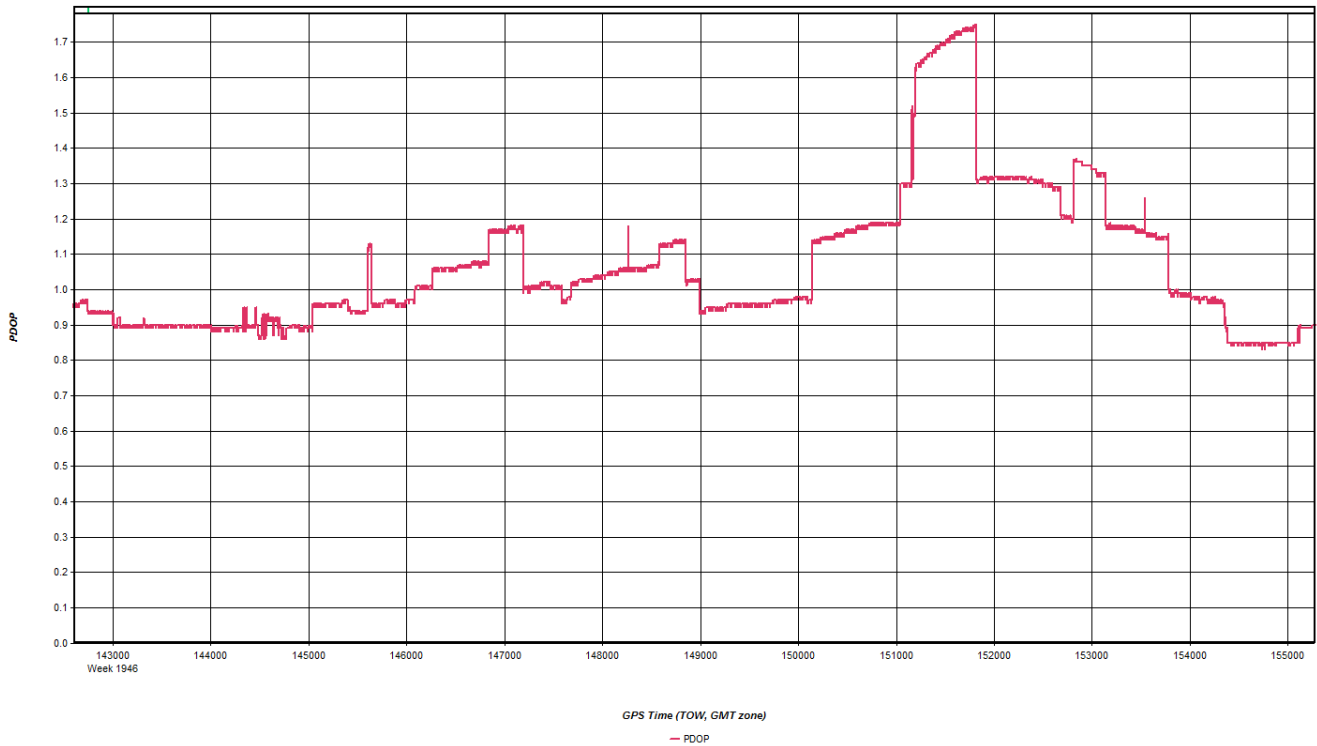
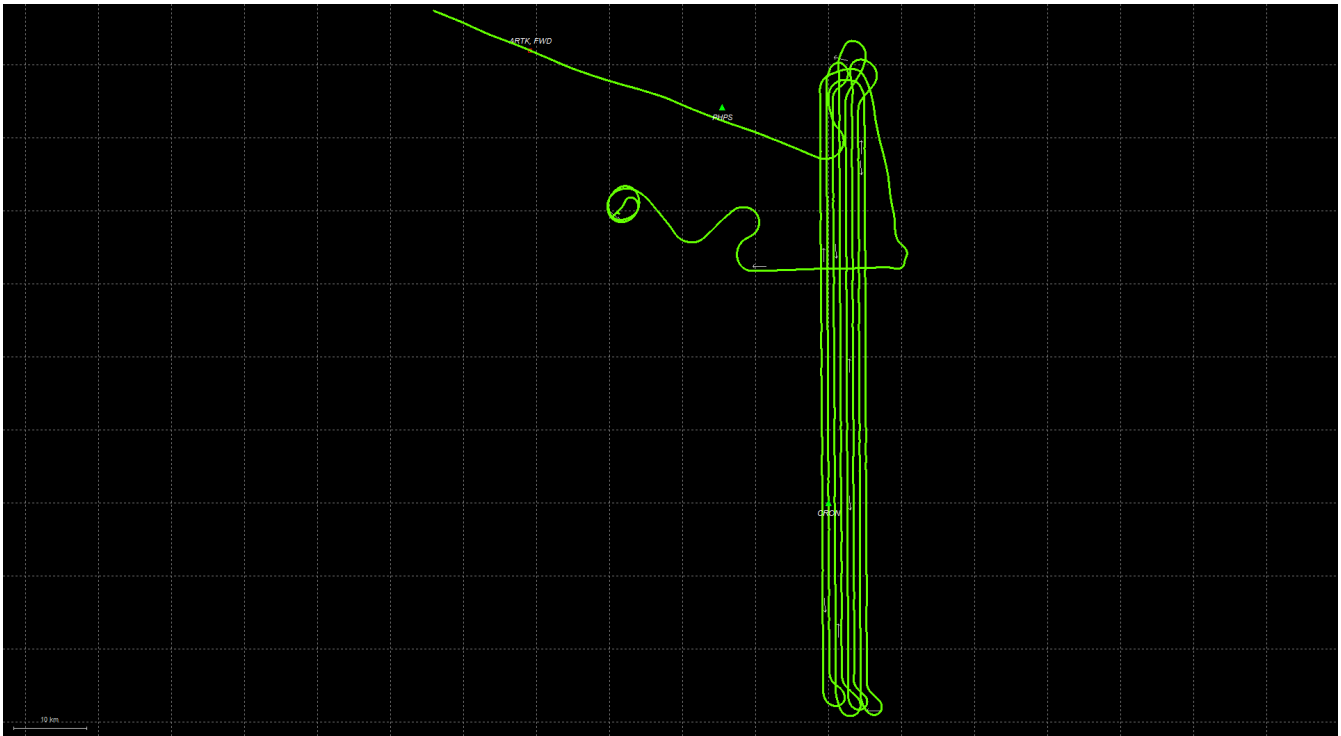
Project: WROC - FOREST Co. Proj #: 28571 Flight Mgmt File: 20170424-131134
 Aircraft: N222AS Begin Hobbs: 6558.8 End Hobbs: 6562.2 Total: 3.4 Pilot: RADTKE Co-Pilot: Tech: CAREY
 Dep Apt: KCWA Dep Time (Lcl): 825 (Z): 1325 Arr Apt: KRHI Arr Time (Local): 1155 (Z): 1655 Tot Time Aloft:
 CORs: (N) Sta 1: WIS CARES Sta 2:
 GPS Unit: Y/N Sta 1: Sta 2:
 Flyovers: Y/N IF Y, times: Sta 1) Flyovers: Y/N IF Y, times: Sta 2)

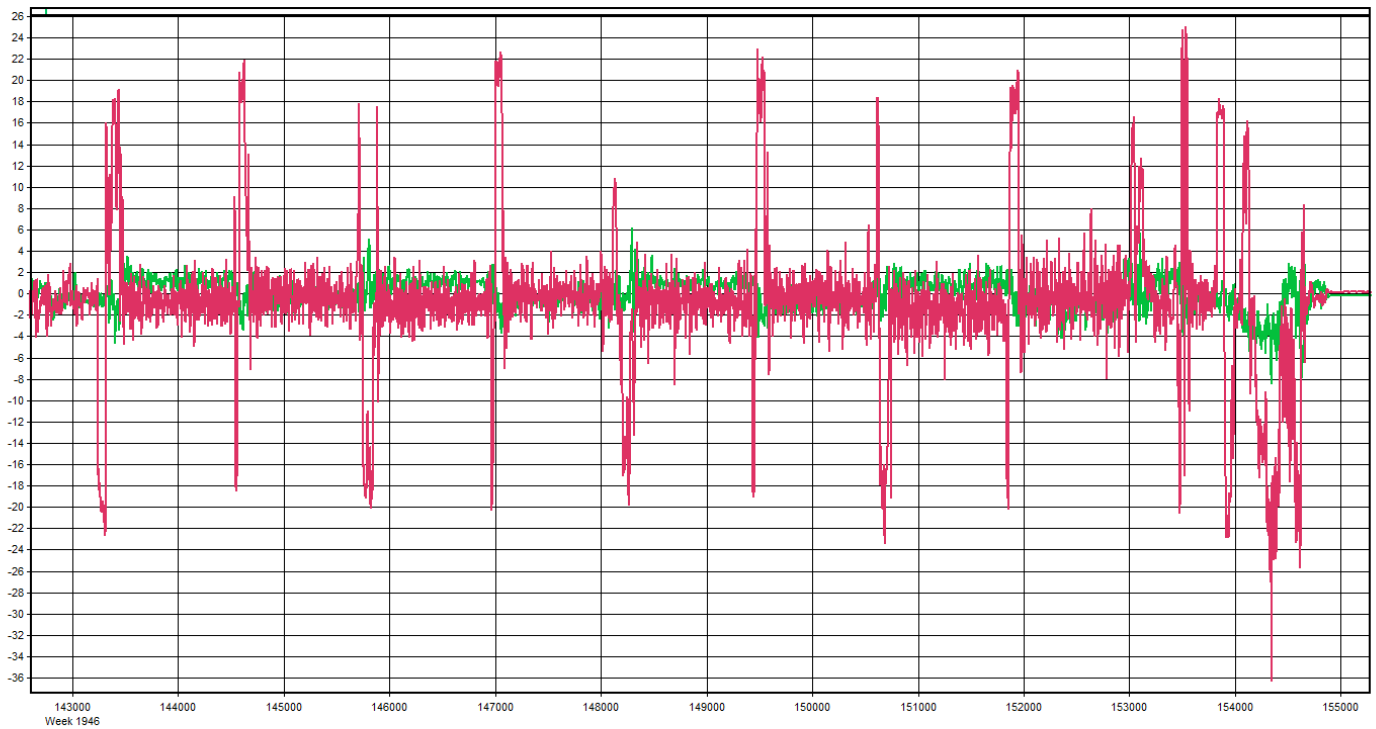
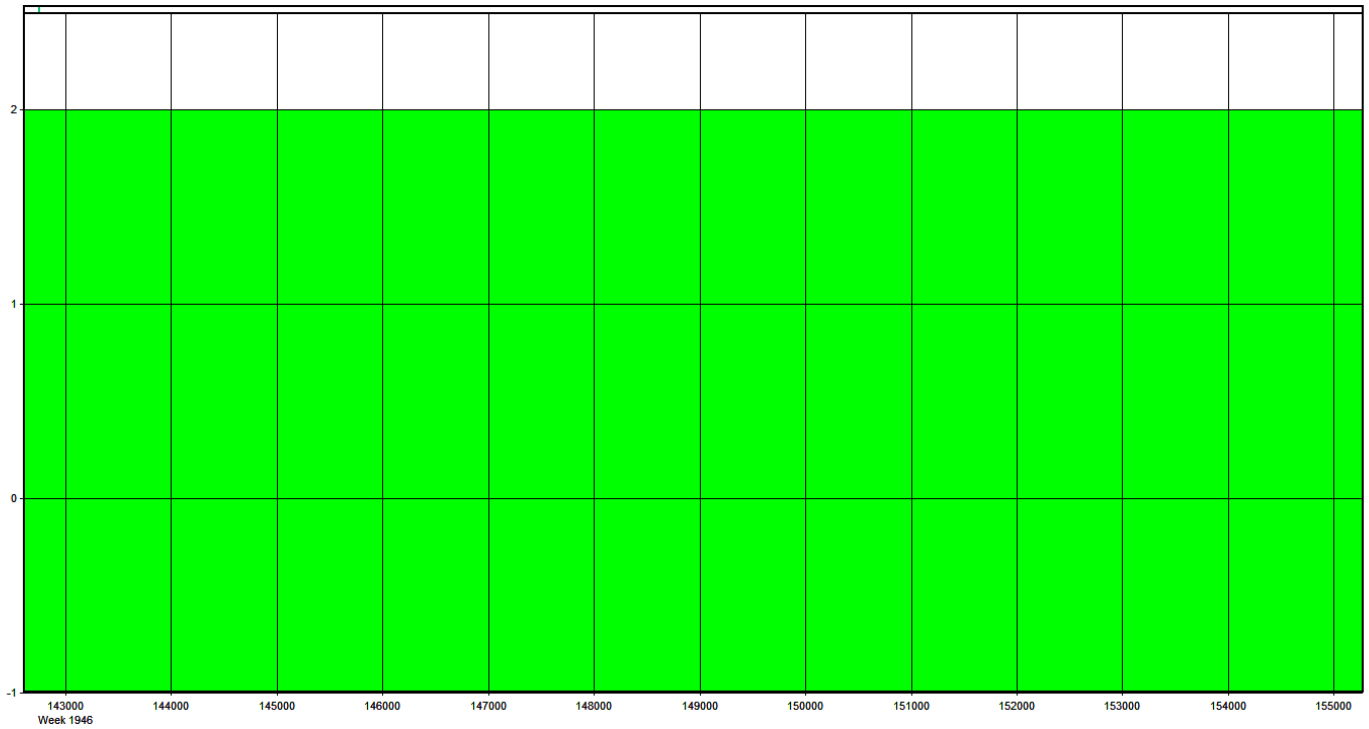
Gd Temp beg:	°C		°C		°C		°C		°C		°C		Alt AMSL	Alt AGL	Mpd/Ascs	Gd Spd	Gps Altitude	Crb	Turb (0..3)	Pulse Rate	Pulse In Air	Max Gladd	Avg Pc Spading	Power	IFSM	Mag CB	End CB	Tot CB	Storage Name/No	
	Type	Serial #	Scan Freq	OAT beg:	End:	Alt AMSL	Alt AGL	Alt AMSL	Alt AGL	Alt AMSL	Alt AGL	Alt AMSL																		Alt AGL
LIDAR	ALS-70	7161	53.4	55.12	7211	7211	7211	7211	7211	7211	7211	7211	7211	7211	7211	7211	7211	7211	7211	7211	7211	150	150	2.2	2.2	A	77	124	15	
Line #	Hdg	Start (UTC)	End (UTC)	Gd Spd	ppp/ass	Gps Altitude	Crb	Turb (0..3)	KCWA → S/FIG 1347 Planned XFLT Line / OVC 20K - HZ River conditions are normal - No standing water observed 180' cut 6 mi 10 mi from North end OVC 20K @ 14K S/FIG → RHI																					
58	93	1351	1401	1150		7211			KCWA → S/FIG 1347																					
57	184	1408	1417			6972			Planned XFLT Line / OVC 20K - HZ																					
56	4	1420	1428			7051			River conditions are normal - No standing water observed																					
55	184	1437	1441			7051			180' cut 6 mi 10 mi from North end																					
54	4	1444	1452			7070			OVC 20K @ 14K																					
53	184	1456	1505			7077			S/FIG → RHI																					
52	4	1508	1516	1150		7060																								
51	184	1519	1528			7060																								
50	4	1531	1539			7087																								
49	184	1542	1551			7093																								
48	4	1554	1602			7096																								
47	184	1605	1615			7090																								
46	4	1618	1627			7087																								

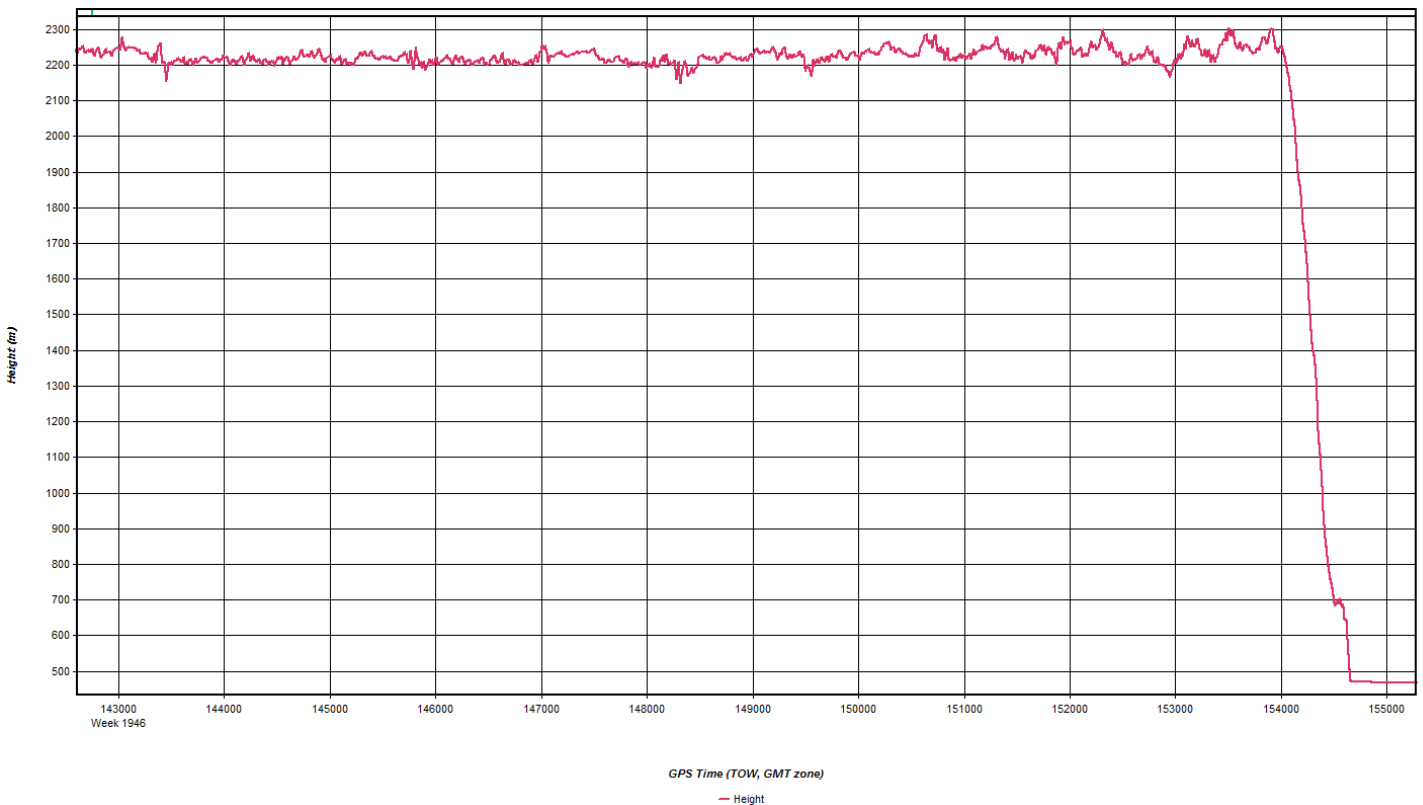
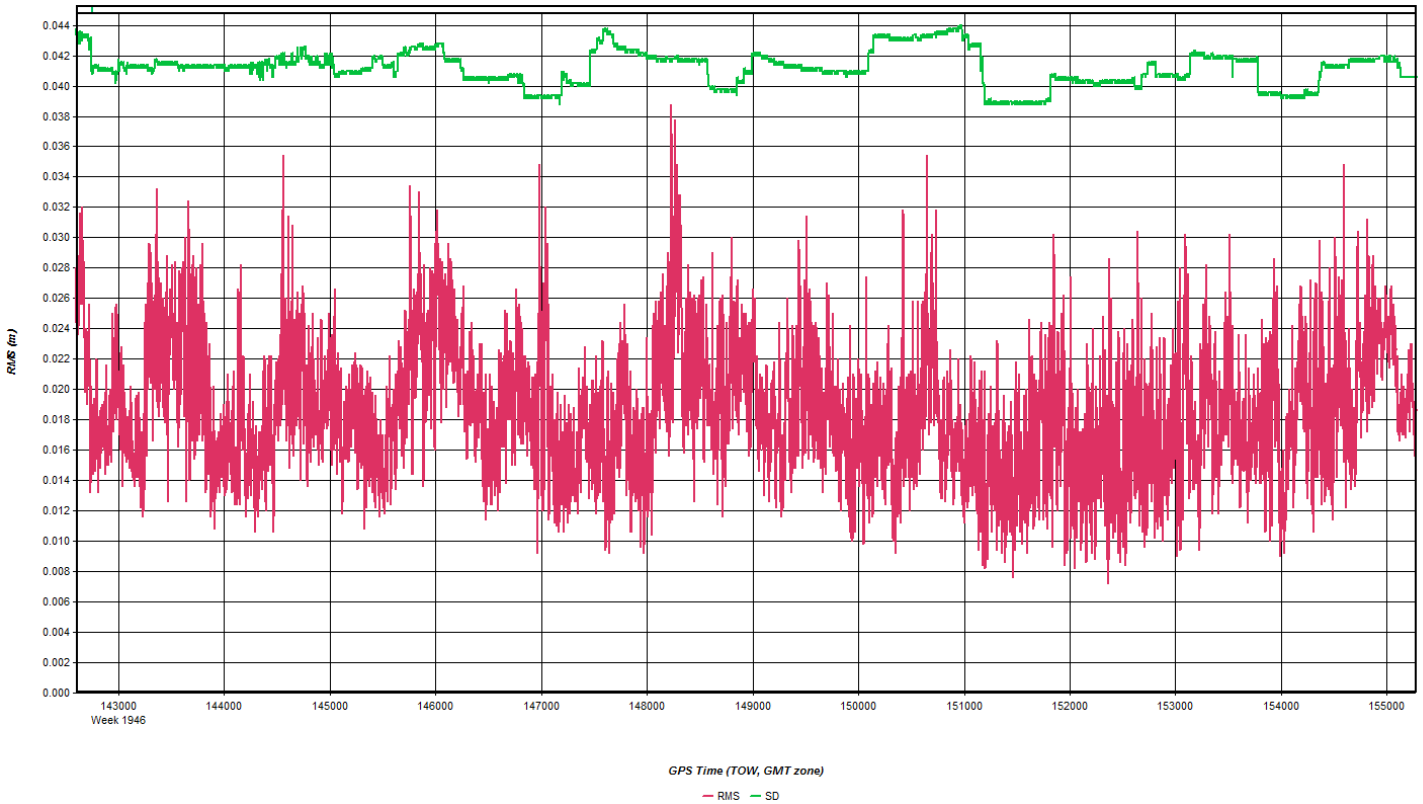
Total Proj Lines: 13 Lines Flown: 13 Lines Remain: 0 Online Time: 2:5 Job Time: 9 Notes:

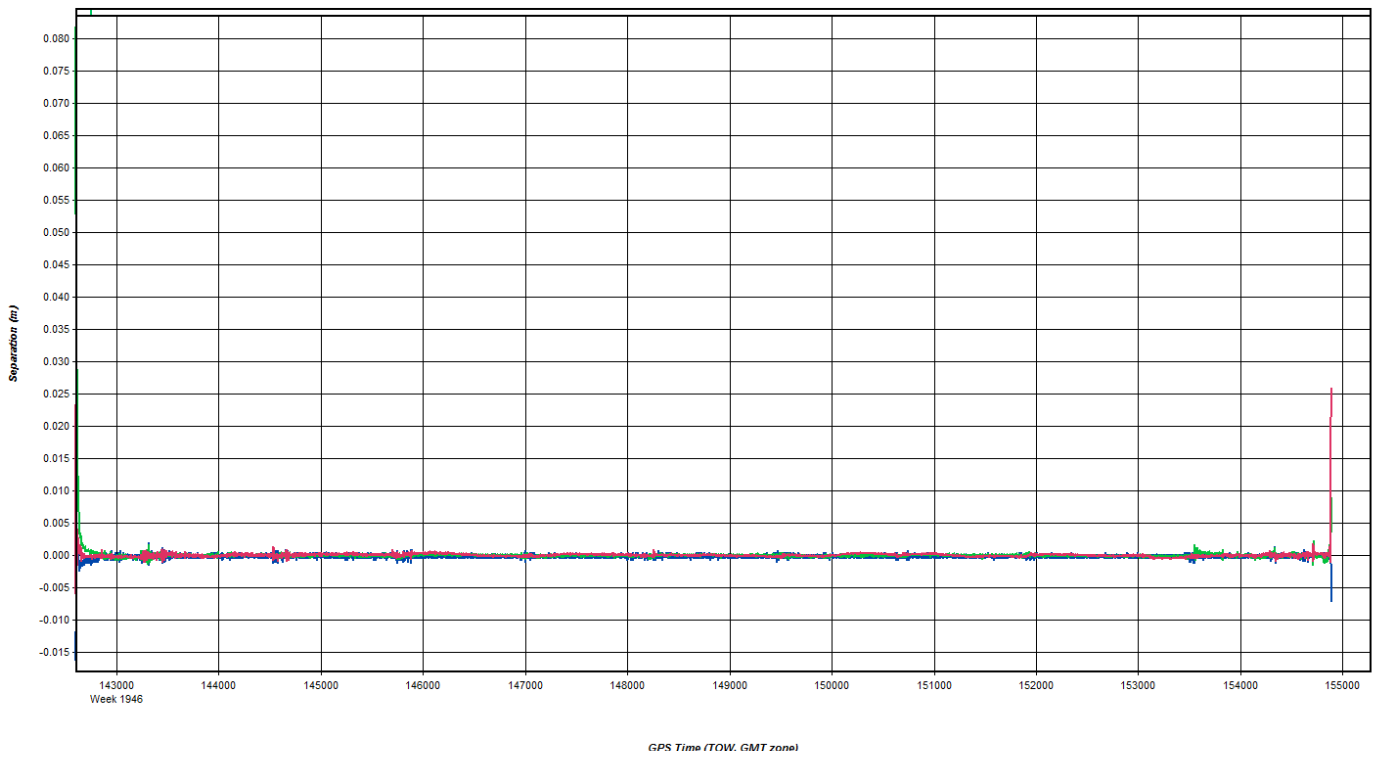
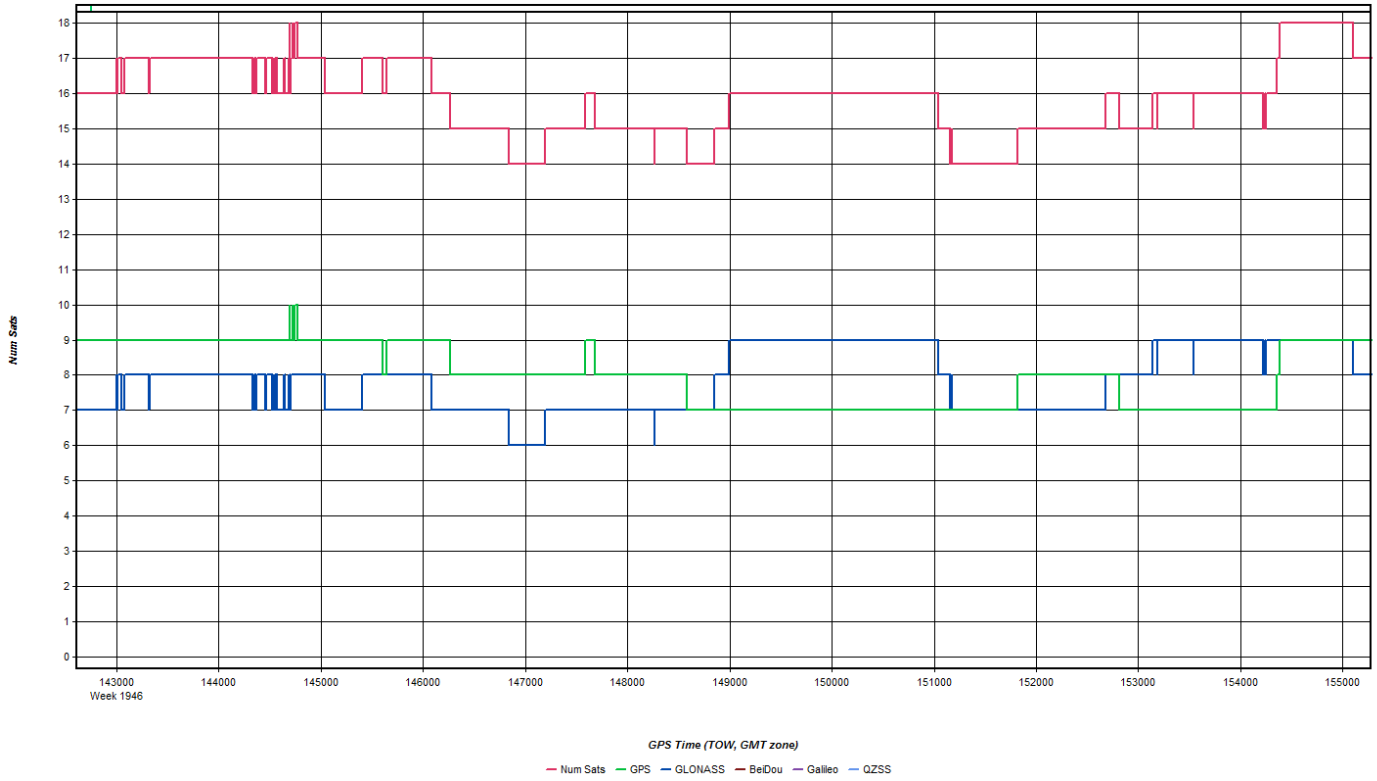
Generated by CamScanner from intsig.com

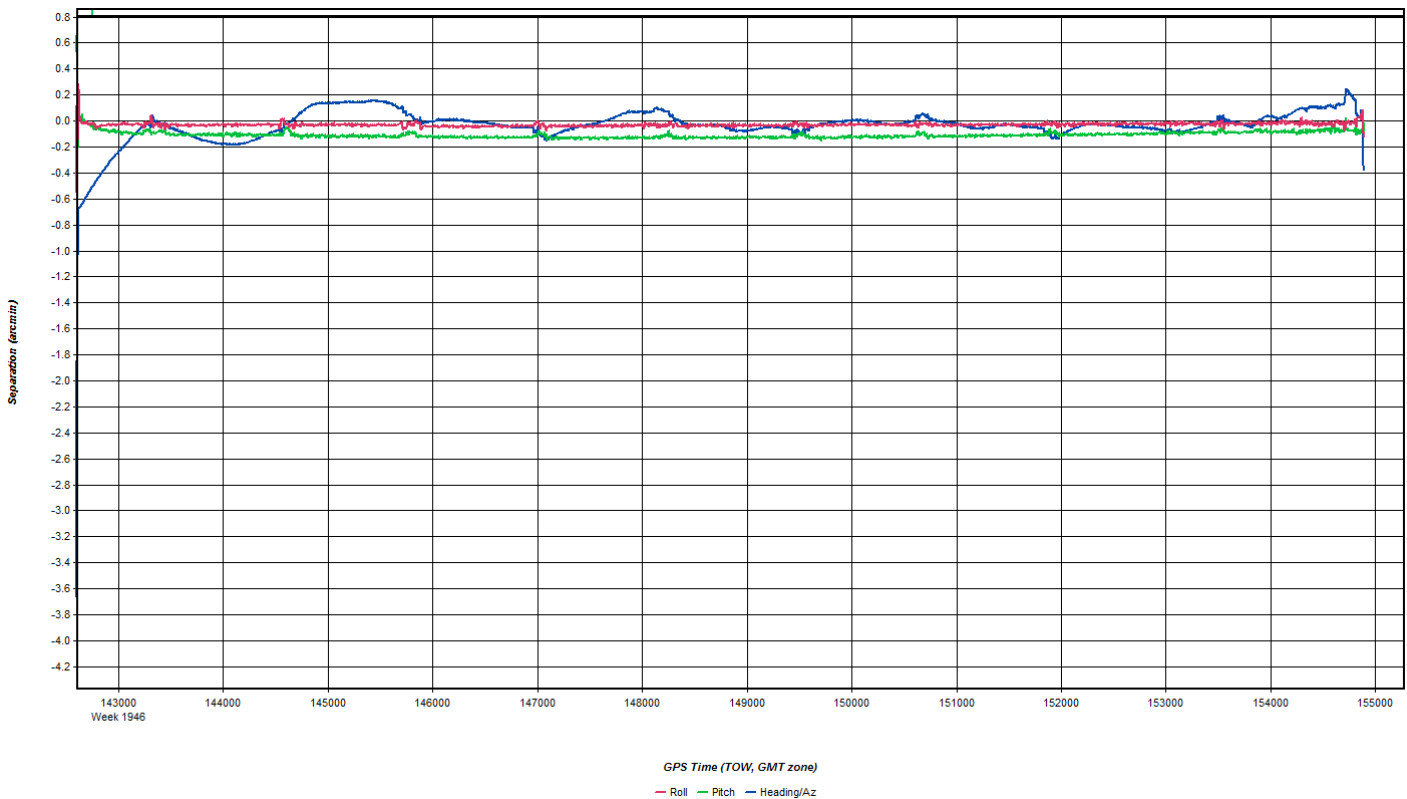
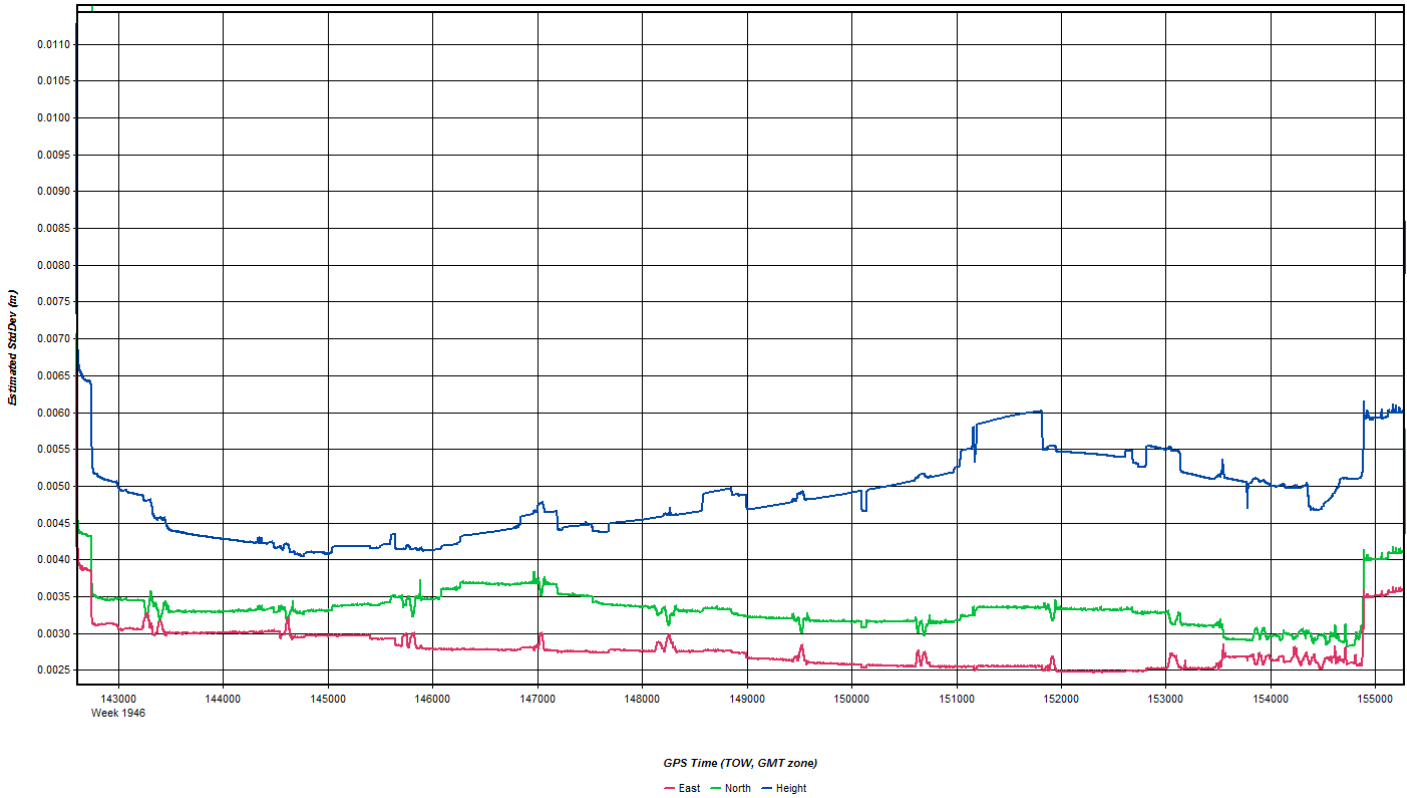
Apr 24, 2017-A (N73TM, SN7178)











Coordinate/Antenna Settings ? X

Master Remote

Base Station
 1: CRON Name: CRON Disabled
 File: F:\Proc\28571_WROC_Sawyer_7178\Gary_Tao_4-26-17\28571_W

Coordinates
 Latitude: North 45 34 35.03872 Coord. options
 Longitude: West 88 53 30.43878 Save to Favorites
 Ellipsoidal height: 465.352 m
 Datum: WGS84 Proc Datum: WGS84
 Epoch: year

Antenna Height
 From station file: TRM57971.00, NONE View STA File
 Antenna profile: TRM57971.00 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 ? X

Master Remote

Base Station
 2: PHPS Name: PHPS Disabled
 File: F:\Proc\28571_WROC_Sawyer_7178\Gary_Tao_4-26-17\28571_W

Coordinates
 Latitude: North 46 03 47.92775 Coord. options
 Longitude: West 89 04 46.06105 Save to Favorites
 Ellipsoidal height: 514.354 m
 Datum: WGS84 Proc Datum: WGS84
 Epoch: year

Antenna Height
 From station file: TRM57971.00, NONE View STA File
 Antenna profile: TRM57971.00 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

Airborne LiDAR Data Collection Log Sheet :: Quantum Spatial, Inc
(email log daily to flight_log_distribution_list@quantumspatial.com)

Date: 4/24/2017 Page 1 of 1

Project: WROC_AVRES_FOREST-LIDAR Proj #: 28571 Flight Mgmt File: 2017_WROC_Forest-Co_ALS70sp3-2ppsm

Aircraft: N73TM Begin Hobbs: 662.7 End Hobbs: 667.68 Total: 4.1 Pilot: John Durham Co-Pilot: Greg Taro

Dep Apt: KDLH Dep Time (Lcl): 9:56 (Z) Arr Apt: KEGV Arr Time (Local): 15:58 (Z) 18:58 Tot Time Aloft: 4:02

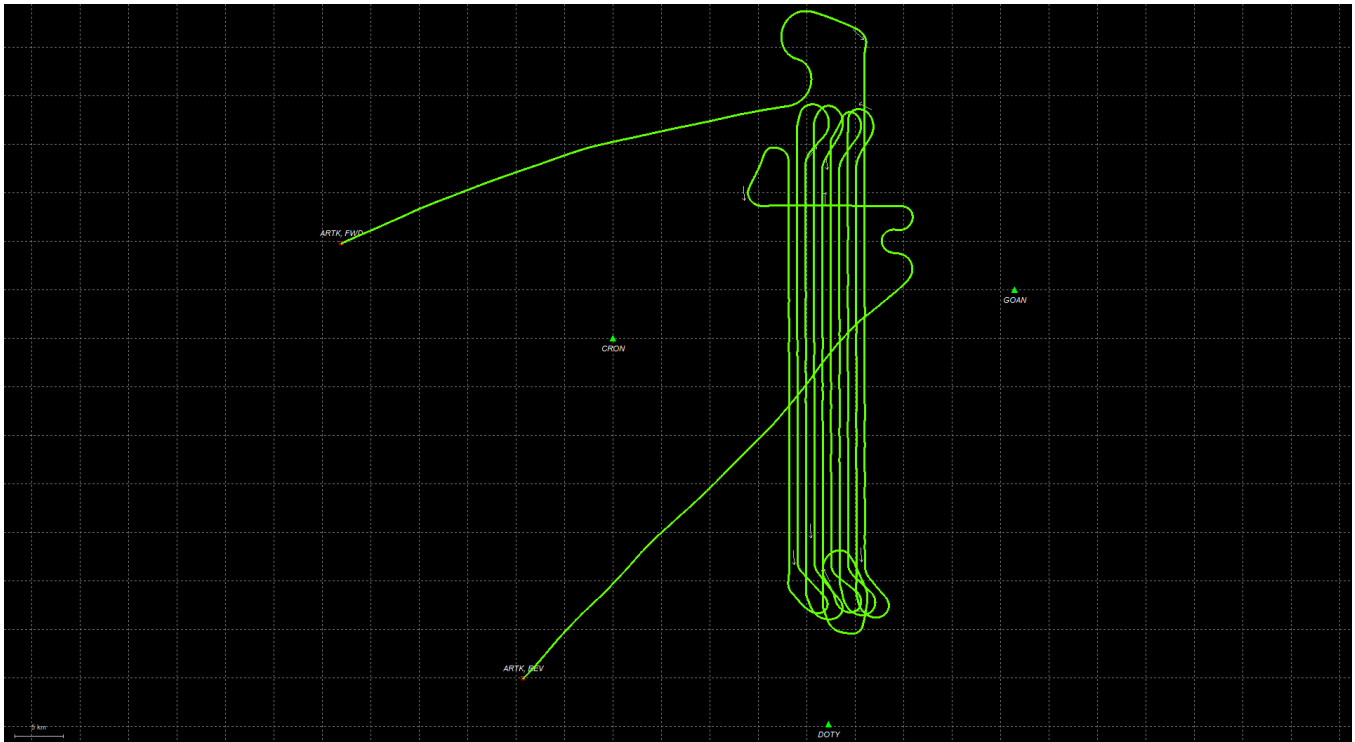
CORS: Y/N Sta 1: PHPS Sta 2: CRON Flyovers: Y/N If Y, times: Sta 1 15:45 Sta 2) N/A

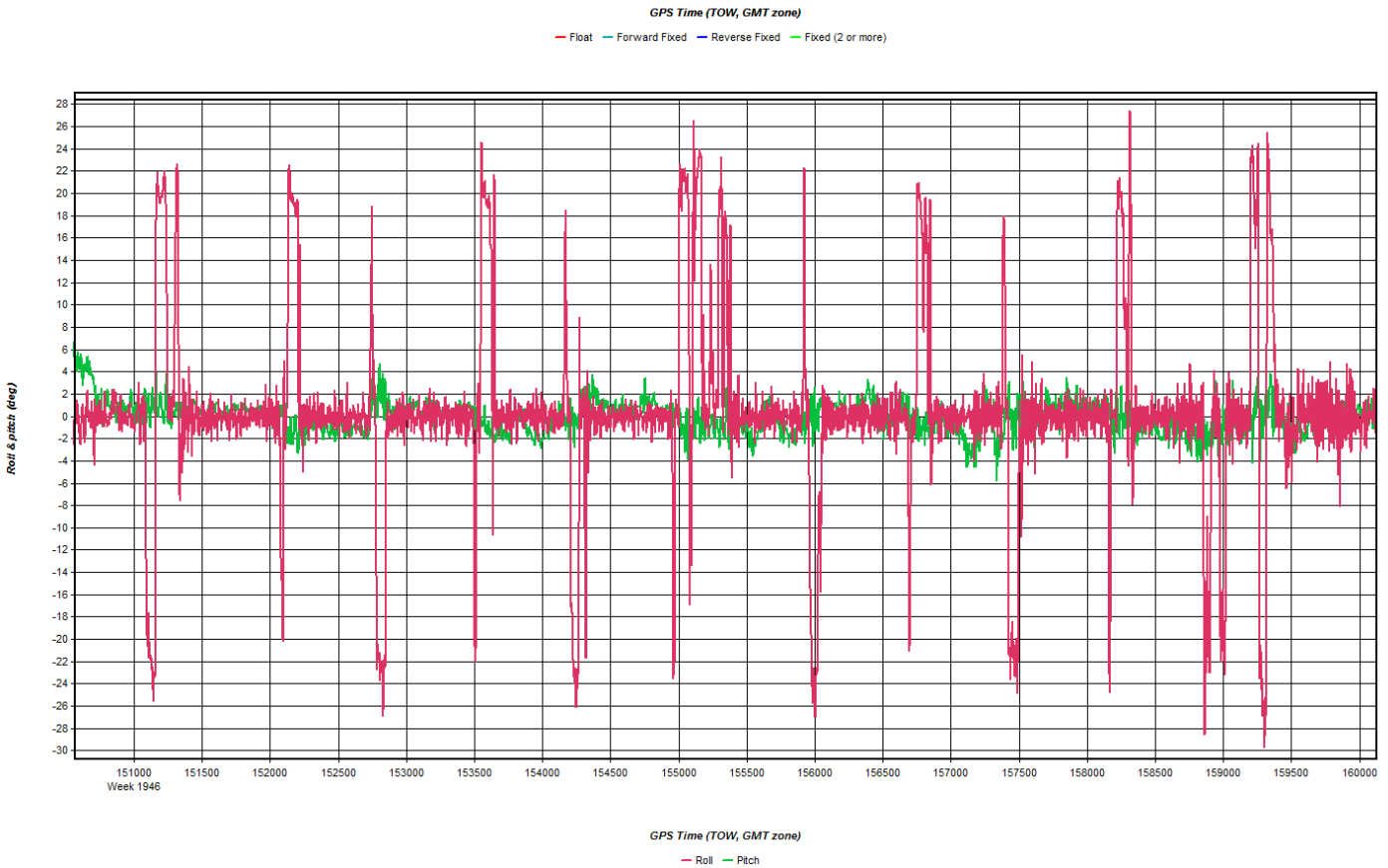
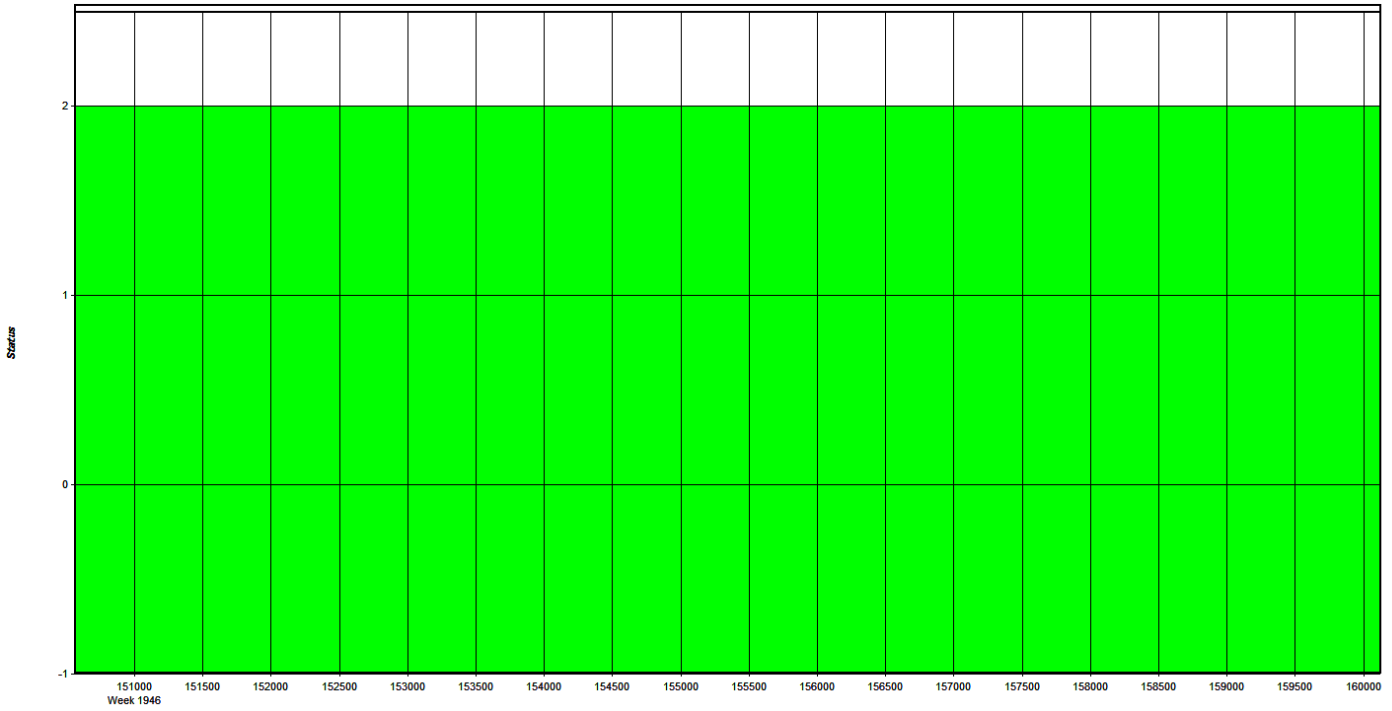
GPS Unit: Y/N Sta 1: Sta 2: Flyovers: Y/N If Y, times: Sta 1 Sta 2)

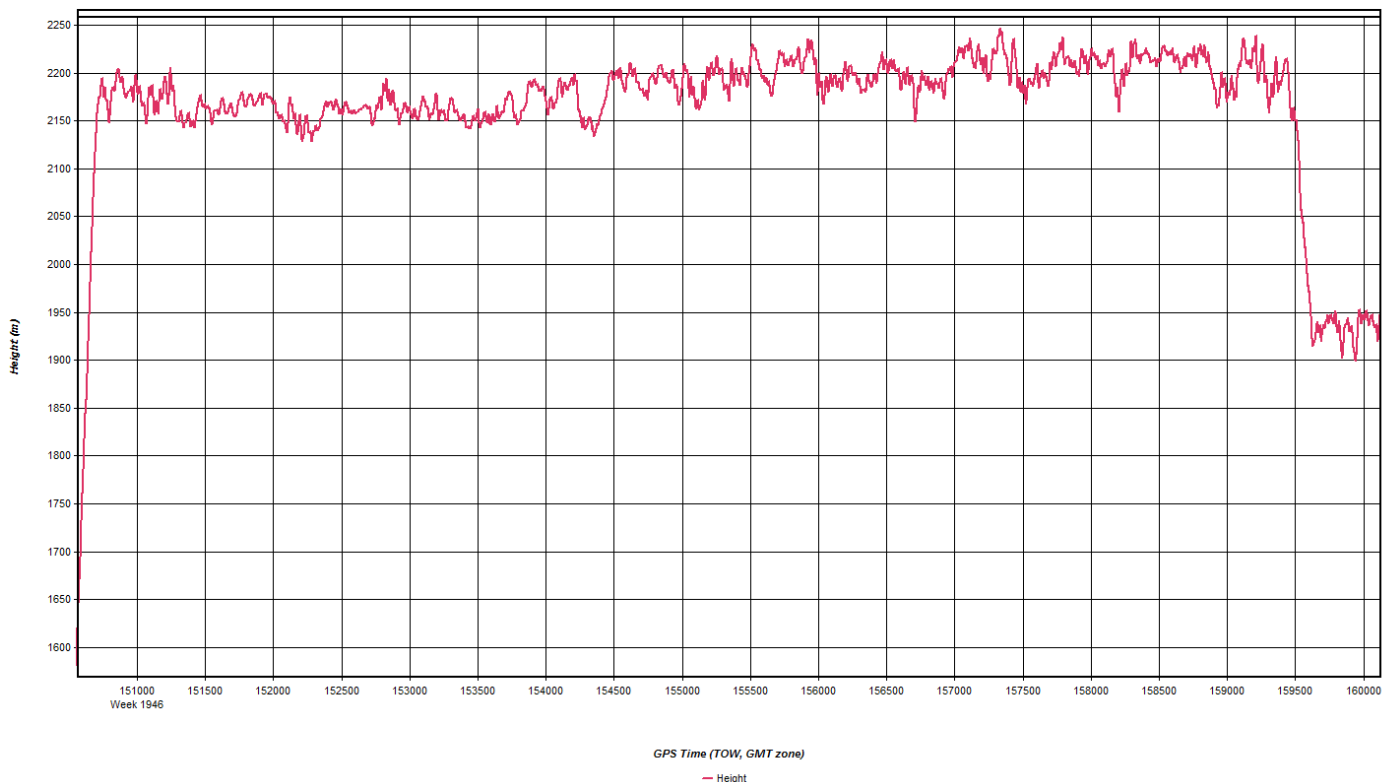
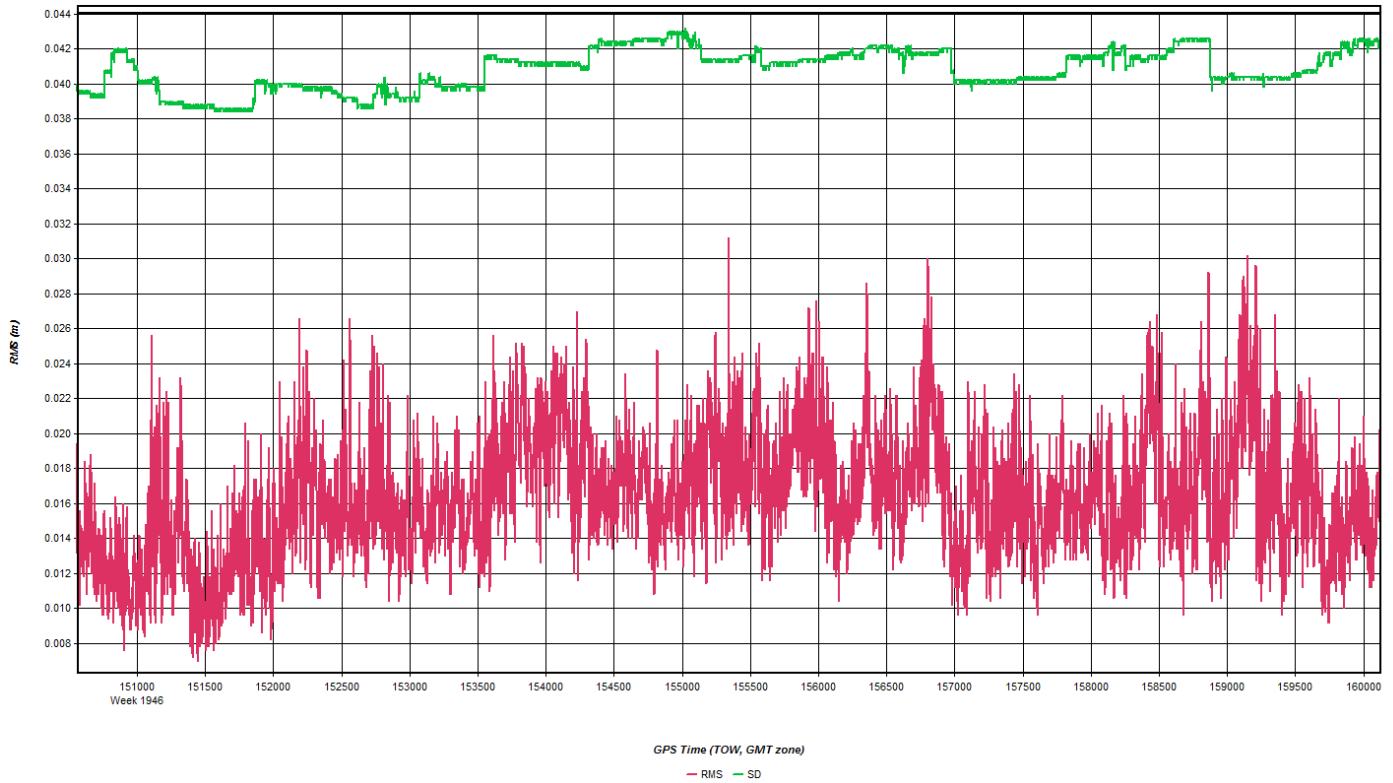
Gd Temp beg:		°C		End:		°C		OAT beg:		°C		End:		°C		Altimeter begin:		end:	
Type	FOV	Serial #	Scan Freq	Alt AGL	MPIA	Alt AMSL	Phases in Air	Avg Ter Ht	Max Gdspd	Power	PPSH	Avg Pt Spacing	PPSH	Mag CB	End CB	Pre CB	Storage Name/ID	Mag CB	End CB
LIDAR		<u>ALS70</u>	<u>40</u>	<u>5600</u>	<u>Y/N</u>	<u>7300</u>	<u>2</u>	<u>1700</u>	<u>150k</u>	<u>100%</u>	<u>2</u>	<u>150k</u>	<u>2</u>	<u>58</u>	<u>21GB</u>	<u>63</u>	<u>5803</u>	<u>58</u>	<u>21GB</u>
Line #	Hdg	Start (UTC)	End (UTC)	Gd Spd	FOV/Alt	GPS Altitude	Crab	Turb (0..1)	FLIGHT LINE NOTES - visibility, clouds, smoke, partial, etc.										
		<u>15:42</u>	<u>15:47</u>	<u>156</u>	<u>1/17</u>	<u>7400</u>			<u>Static @ KDLH</u>										
		<u>15:47</u>	<u>15:50</u>						<u>Flyover of PHPS</u>										
									<u>Initiated S turn</u>										
<u>21</u>	<u>S</u>	<u>15:51</u>	<u>16:08</u>	<u>138</u>	<u>12/17</u>	<u>7300</u>	<u>1°</u>	<u>0</u>											
<u>20</u>	<u>N</u>	<u>16:11</u>	<u>16:28</u>	<u>149</u>	<u>12/0</u>	<u>7300</u>	<u>2°</u>	<u>0</u>											
<u>19</u>	<u>S</u>	<u>16:32</u>	<u>16:49</u>	<u>142</u>	<u>1/19</u>	<u>7300</u>	<u>2°</u>	<u>0</u>											
<u>18</u>	<u>N</u>	<u>16:52</u>	<u>17:08</u>	<u>145</u>	<u>1/18</u>	<u>7300</u>	<u>1°</u>	<u>0</u>											
<u>17</u>	<u>S</u>	<u>17:13</u>	<u>17:30</u>	<u>146</u>	<u>13/17</u>	<u>7300</u>	<u>1°</u>	<u>0</u>											
<u>16</u>	<u>N</u>	<u>17:33</u>	<u>17:50</u>	<u>153</u>	<u>14/16</u>	<u>7300</u>	<u>1°</u>	<u>0</u>											
<u>15</u>	<u>S</u>	<u>17:53</u>	<u>18:10</u>	<u>145</u>	<u>11/18</u>	<u>7350</u>	<u>2°</u>	<u>0</u>	<u>200' Inflight west S/NM FNE</u>										
<u>14</u>	<u>N</u>	<u>18:13</u>	<u>18:30</u>	<u>153</u>	<u>1/18</u>	<u>7400</u>	<u>2°</u>	<u>0</u>	<u>164 kt @ start</u>										
<u>U1001</u>	<u>W</u>	<u>18:39</u>	<u>18:43</u>	<u>137</u>	<u>1/20</u>	<u>7400</u>			<u>CROSSTIE</u>										
									<u>Closeout S turn</u>										
									<u>36° roll on landing approach</u>										
									<u>Approaching high voltage warning</u>										

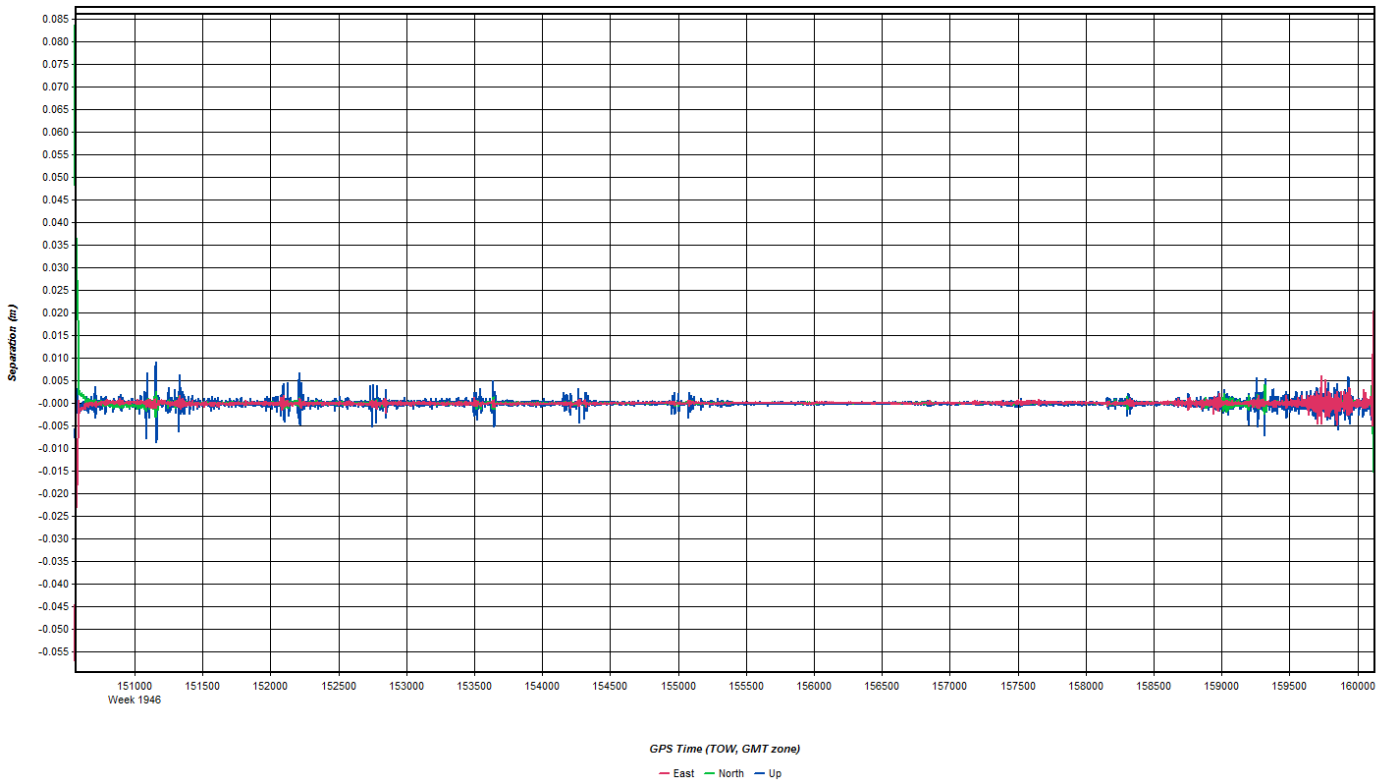
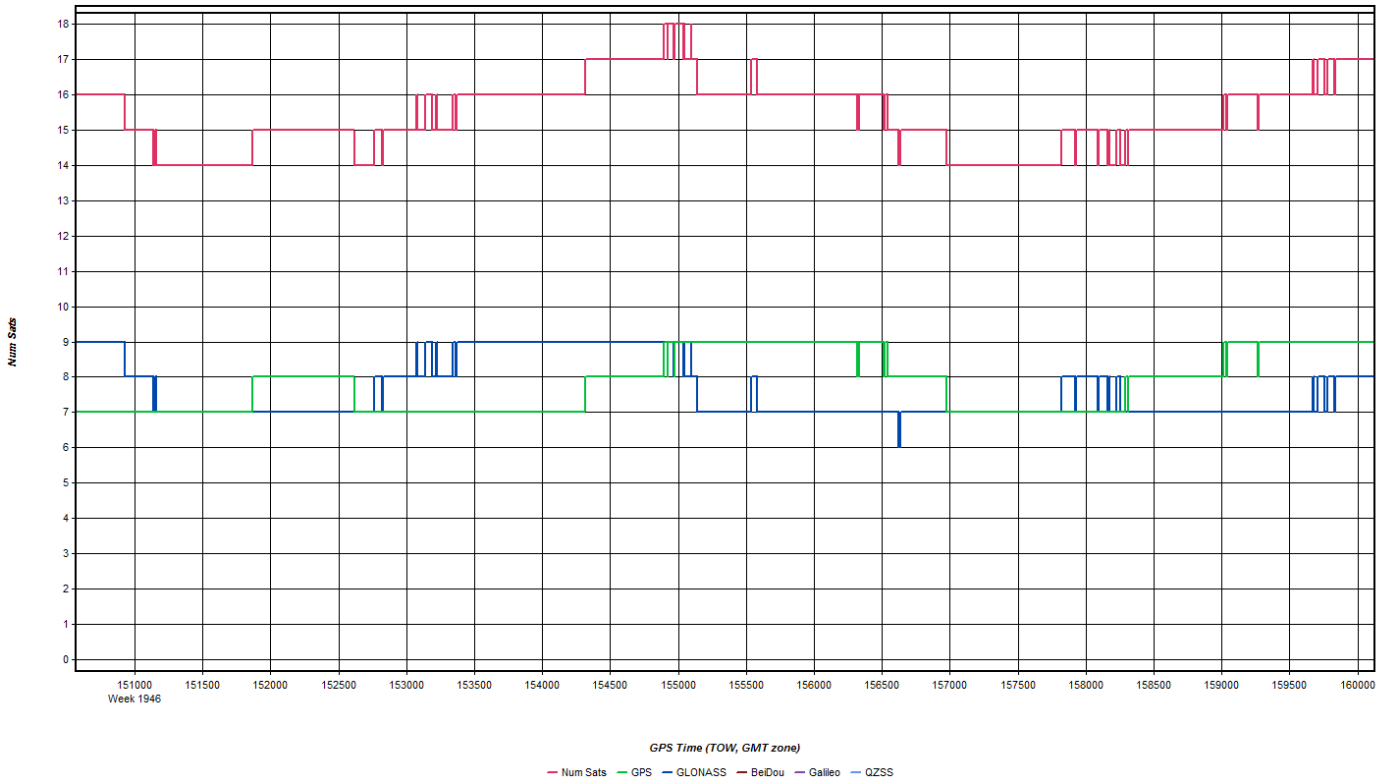
Total Proj Lines: 58 Lines Flown: 8 Lines Remaining: 25 OnLine Time: 3.0 Mob Time: 1.1 Notes:

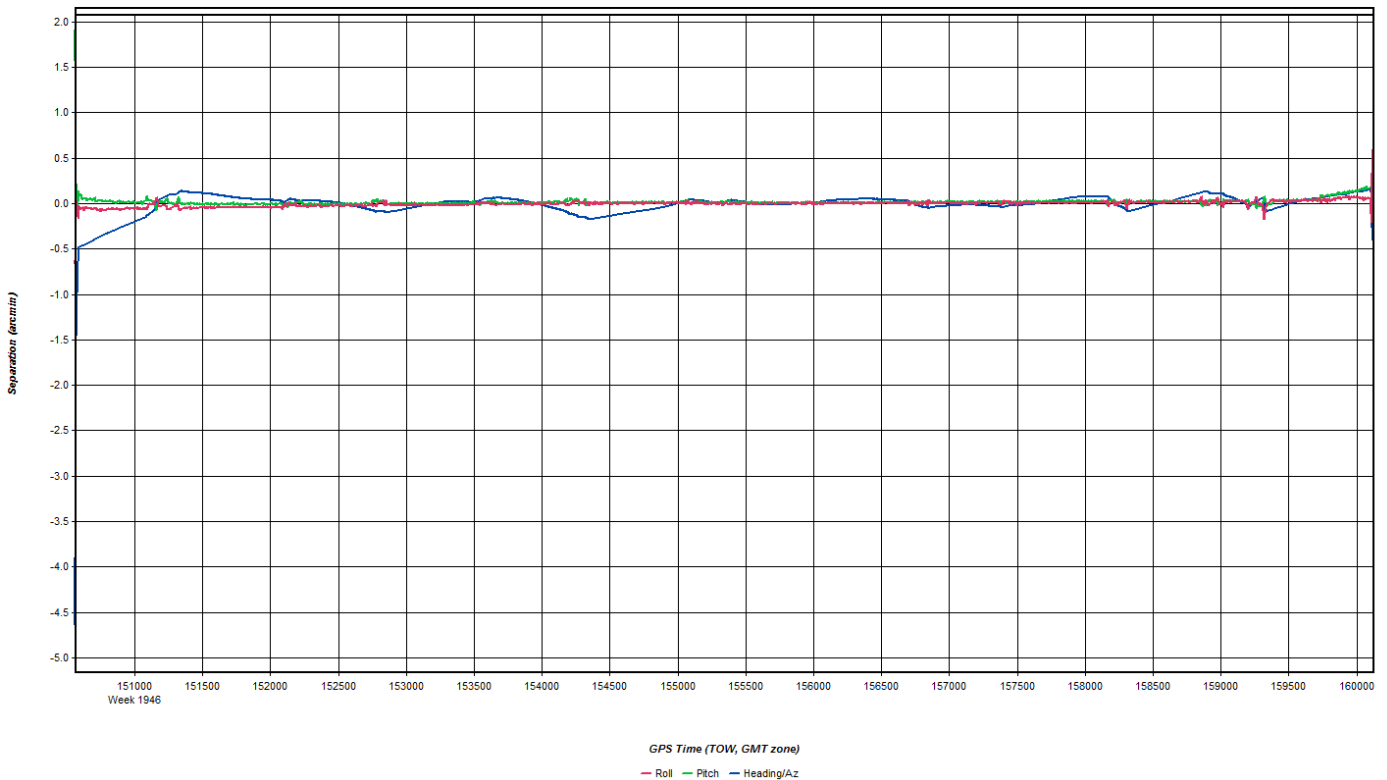
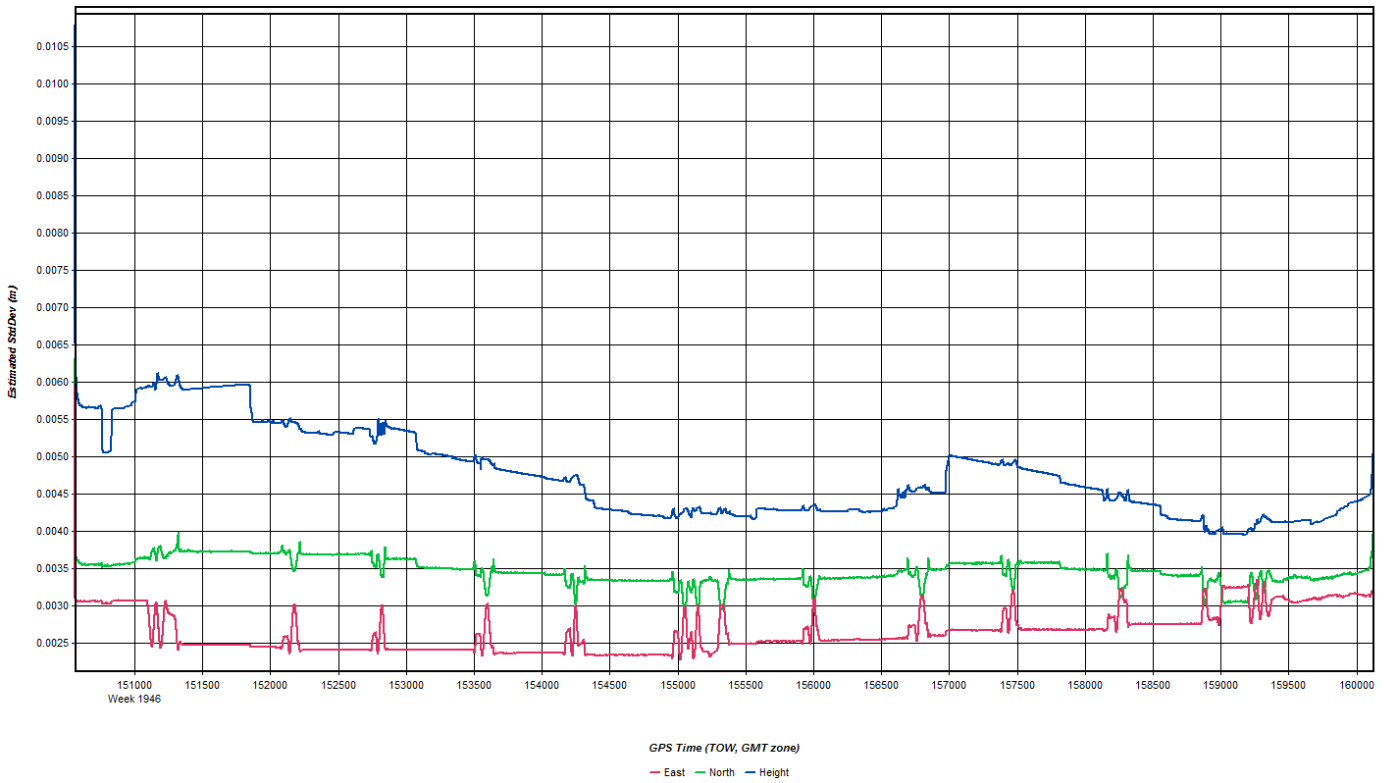
Apr 24, 2017-B (N262AS, SN7161)











Coordinate/Antenna Settings ? X

Master Remote

Base Station
 1: CRON Name: CRON Disabled
 File: F:\Proc\28571_WROC_Sawyer_7178\Doug_Carey_4-26-17\Forest I

Coordinates
 Latitude: North 45 34 35.03872 Coord. options
 Longitude: West 88 53 30.43878 Save to Favorites
 Ellipsoidal height: 465.352 m
 Datum: WGS84 Proc Datum: WGS84
 Epoch: year

Antenna Height
 From station file: TRM57971.00, NONE View STA File
 Antenna profile: TRM57971.00 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 ? X

Master Remote

Base Station
 2: DOTY Name: DOTY Disabled
 File: F:\Proc\28571_WROC_Sawyer_7178\Doug_Carey_4-26-17\Forest I

Coordinates
 Latitude: North 45 13 10.95151 Coord. options
 Longitude: West 88 36 24.30725 Save to Favorites
 Ellipsoidal height: 336.258 m
 Datum: WGS84 Proc Datum: WGS84
 Epoch: year

Antenna Height
 From station file: TRM57971.00, NONE View STA File
 Antenna profile: TRM57971.00 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 ? X

Master Remote

Base Station
 3: GOAN Name: GOAN Disabled
 File: F:\Proc\28571_WROC_Sawyer_7178\Doug_Carey_4-26-17\Forest I

Coordinates
 Latitude: North 45 37 16.91176 Coord. options
 Longitude: West 88 21 36.15910 Save to Favorites
 Ellipsoidal height: 411.566 m
 Datum: WGS84 Proc Datum: WGS84
 Epoch: year

Antenna Height
 From station file: TRM57971.00, NONE View STA File
 Antenna profile: TRM57971.00 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

Project: WROC - Forest Co **Proj #:** 28571 **Flight Mgmt File:** 20170424-173414 **Date:** 4-24-17
(email Log daily to flight_log_distribution_list@quantumspatial.com) **Lift:** A B C D E **Pg:** ___ of ___

Aircraft: NZ62AS **Begin Hobbs:** 6542.2 **End Hobbs:** 6545.2 **Total:** 3.0 **Pilot:** RAPTKE **Co-Pilot:** — **Tech:** CAREY

Dep Apt: KRHI **Dep Time (Lcl):** 1247 (Z): 1747 **Arr Apt:** KCWA **Arr Time (Local):** 1550 (Z): 2050 **Tot Time Aloft:** _____

CORS: (Y) N **Sta 1:** WIS Co 12.5 **Sta 2:** _____ **Flyovers:** Y / N **IF Y, times: Sta 1)** _____ **Sta2)** _____

GPS Unit: Y / N **Sta 1:** _____ **Sta 2:** _____ **Flyovers:** Y / N **IF Y, times: Sta 1)** _____ **Sta2)** _____

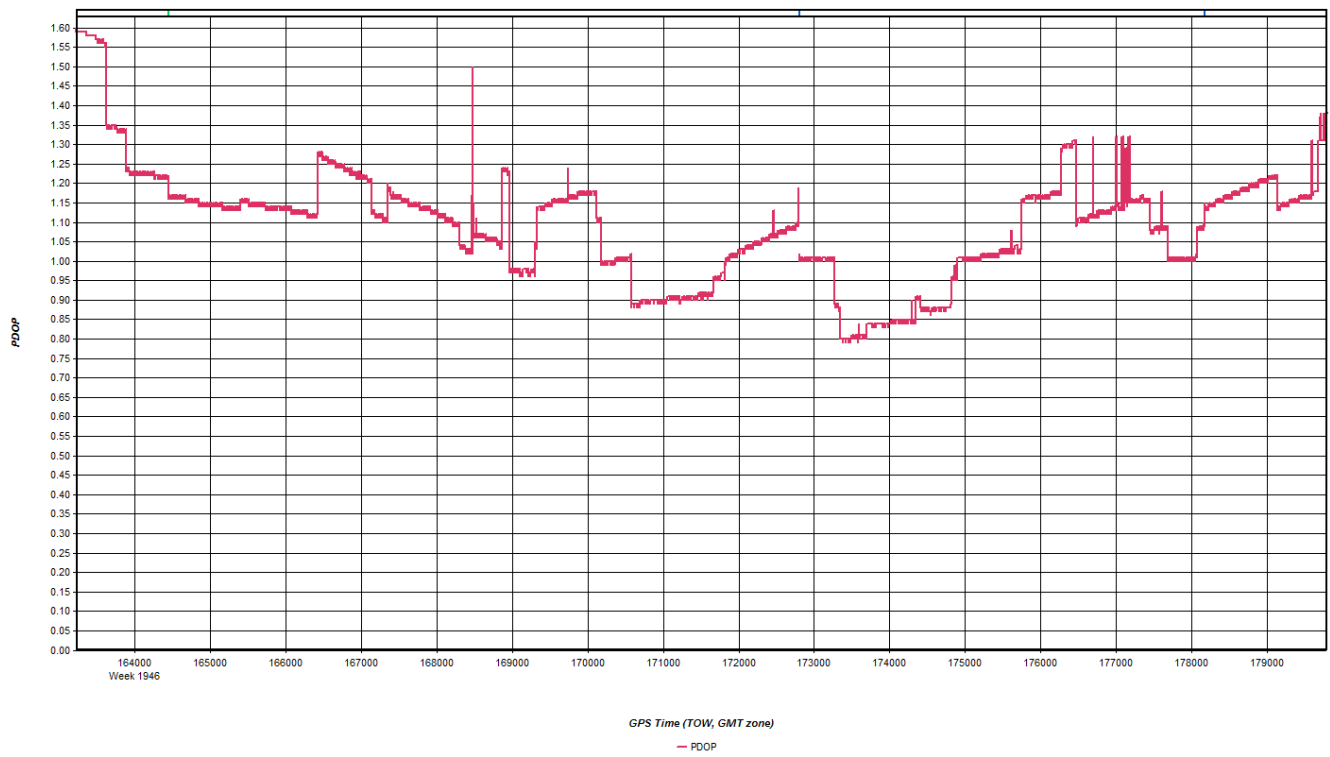
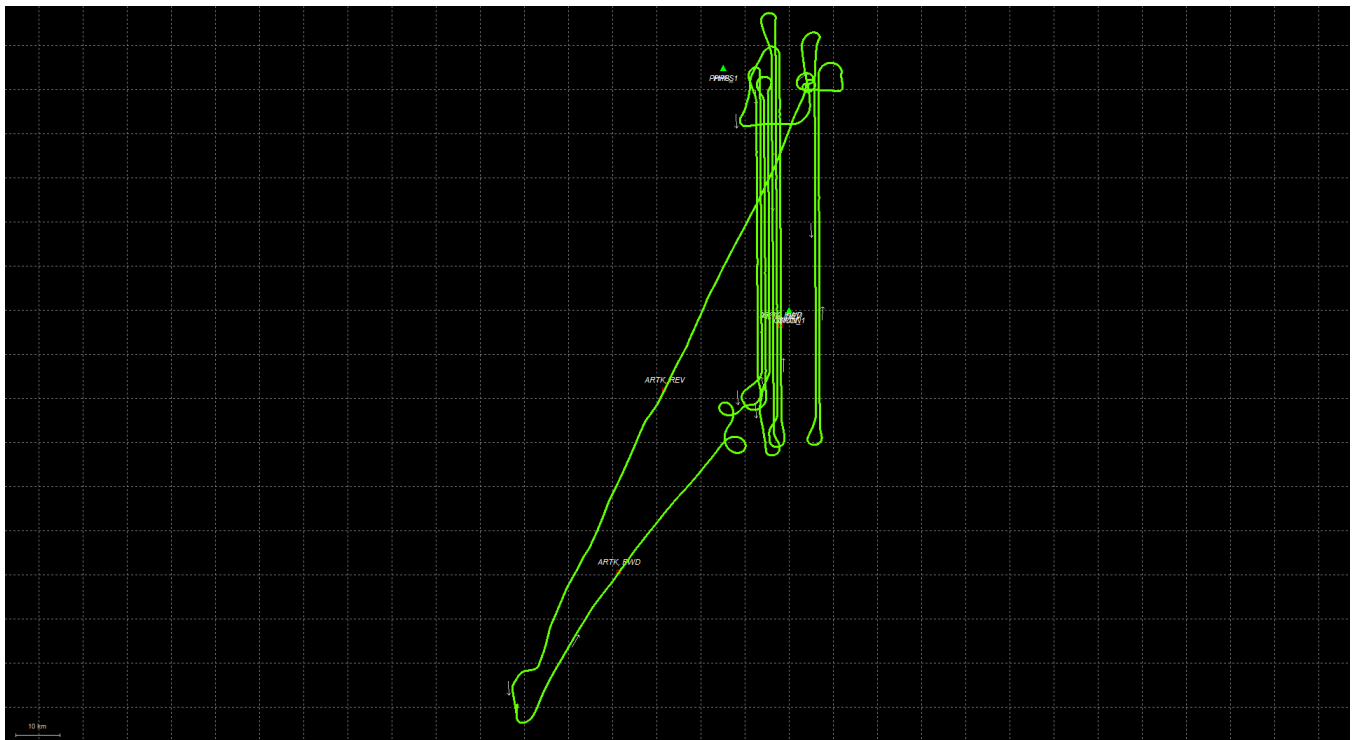
Line #	Hdg	Start (UTC)	End (UTC)	Gd Spd	POOP/Sec	GPS Altitude	Crab	Turb (0-5)	Altimeter begin:			Storage Name/#
									Avg Temp	Max Gtdpd	Avg Pt Spacing	
LIDAR	FOV	Serial #	Scan Freq	OAT beg:	°C	End:	°C	Avg Hit	Pulse Rate	Power	PSM	Bag CB
45	184	1805	1814	4/150	1.2	7087	T	0	1699	150	100%	174
44	4	1817	1825	1	1.4	7106	1	1	299.4	100%	2.2	B
43	184	1828	1838	1	1.1	7106	1	1				
42	4	1841	1849	1	1.1	7172	1	1				
41	184	1853	1902	1	1.1	7224	1	1				
40	4	1910	1918	4/150	1.2	7234	T	0				
39	184	1921	1931	1	1.1	7234	1	1				
38	4	1934	1942	1	1.2	7260	1	1				
37	184	1946	1955	1	1.1	7270	1	1				
36	4	1958	2007	1	1.1	7270	1	1				
XFLT	92	2010	2013	4/150	1.2	7200	T	0				

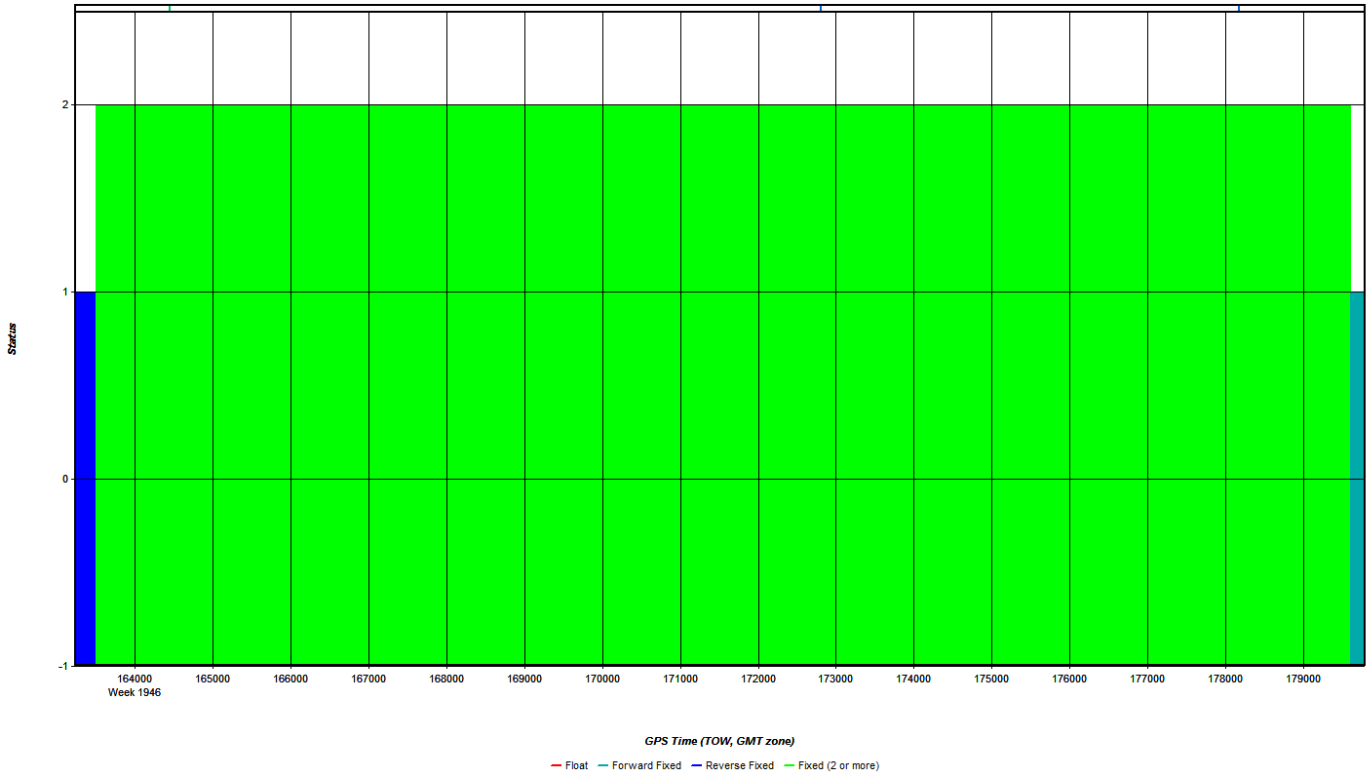
FLIGHT LINE NOTES - visibility, clouds, smoke, partial, etc.
 KRHI → SITE → S/FIG 1758
 OVC 20K / BLEN 12K
 XFLT unplanned
 S/FIG → KCWA

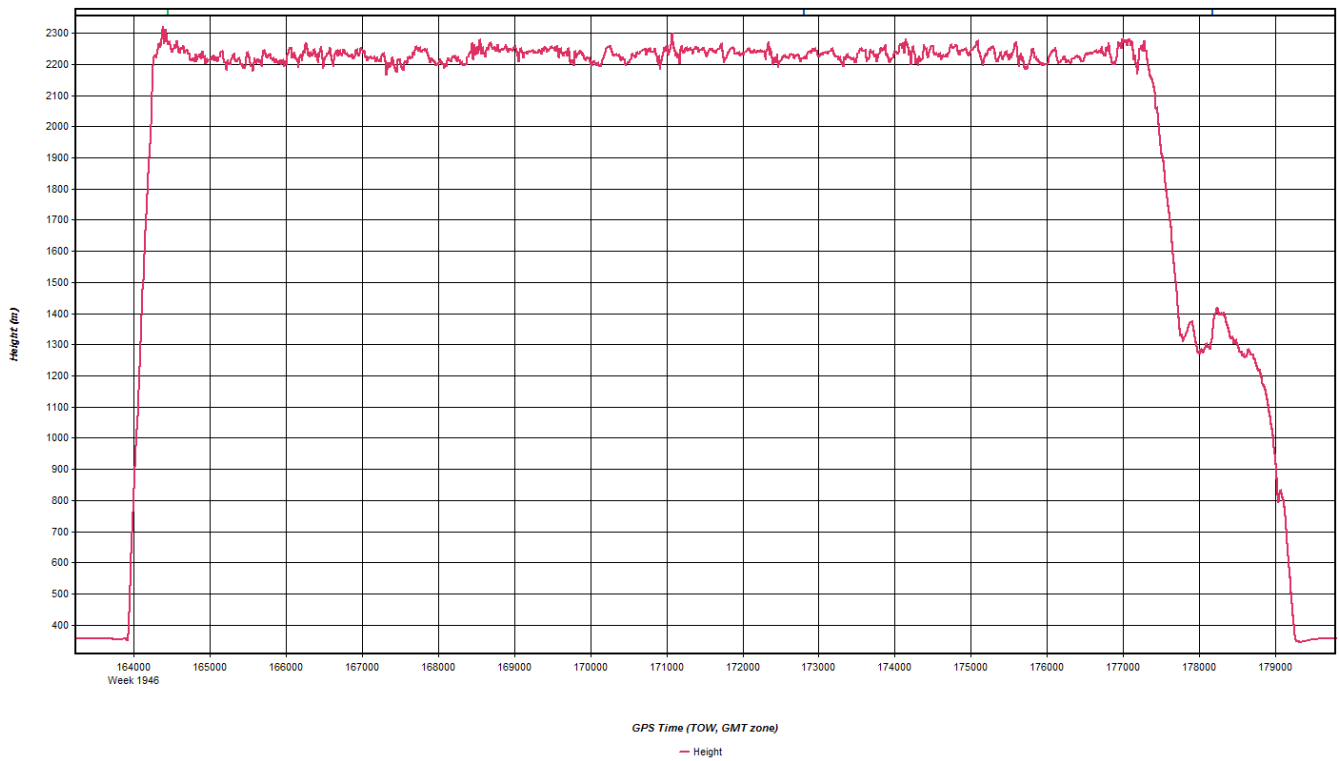
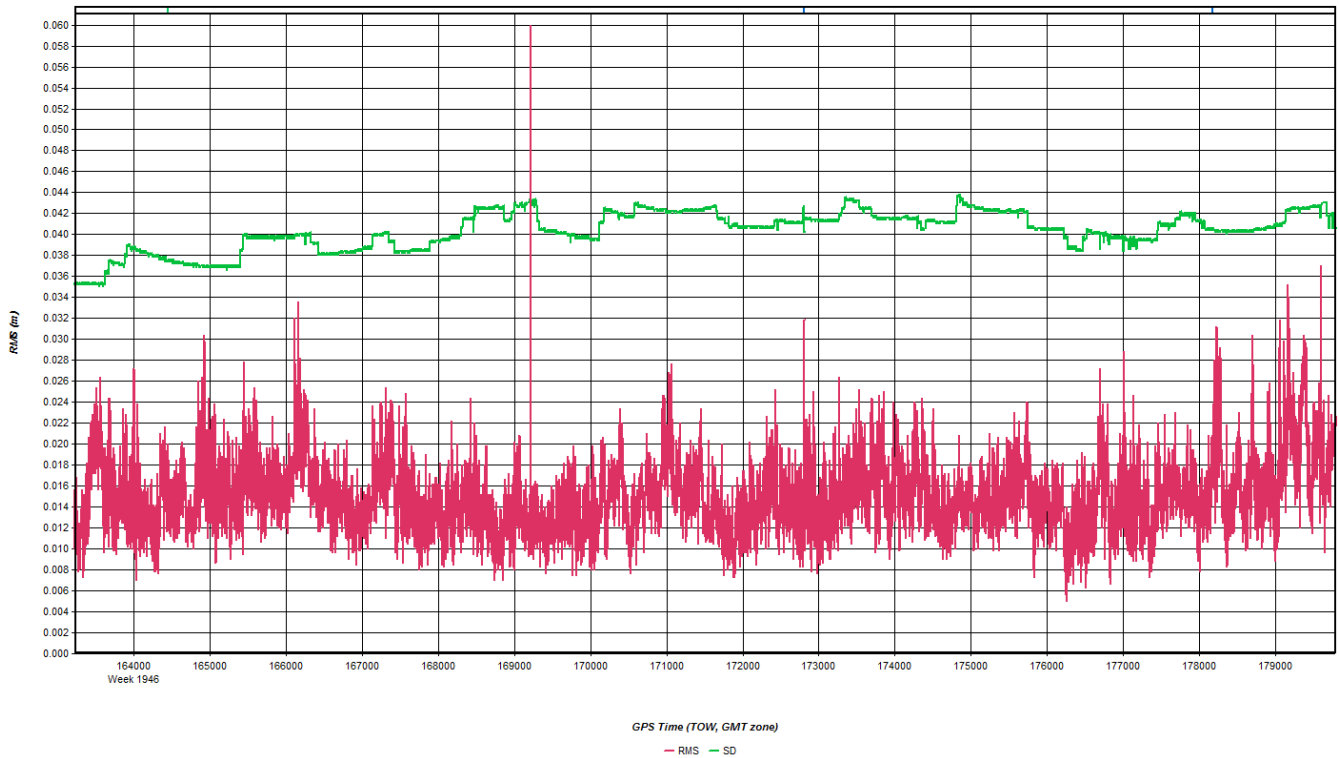
Total Proj Lines: _____ **Lines Flown:** 10 **Lines Remain:** _____ **Online Time:** 2:22 **Job Time:** 1:8 **Notes:** 2017-0424-173414

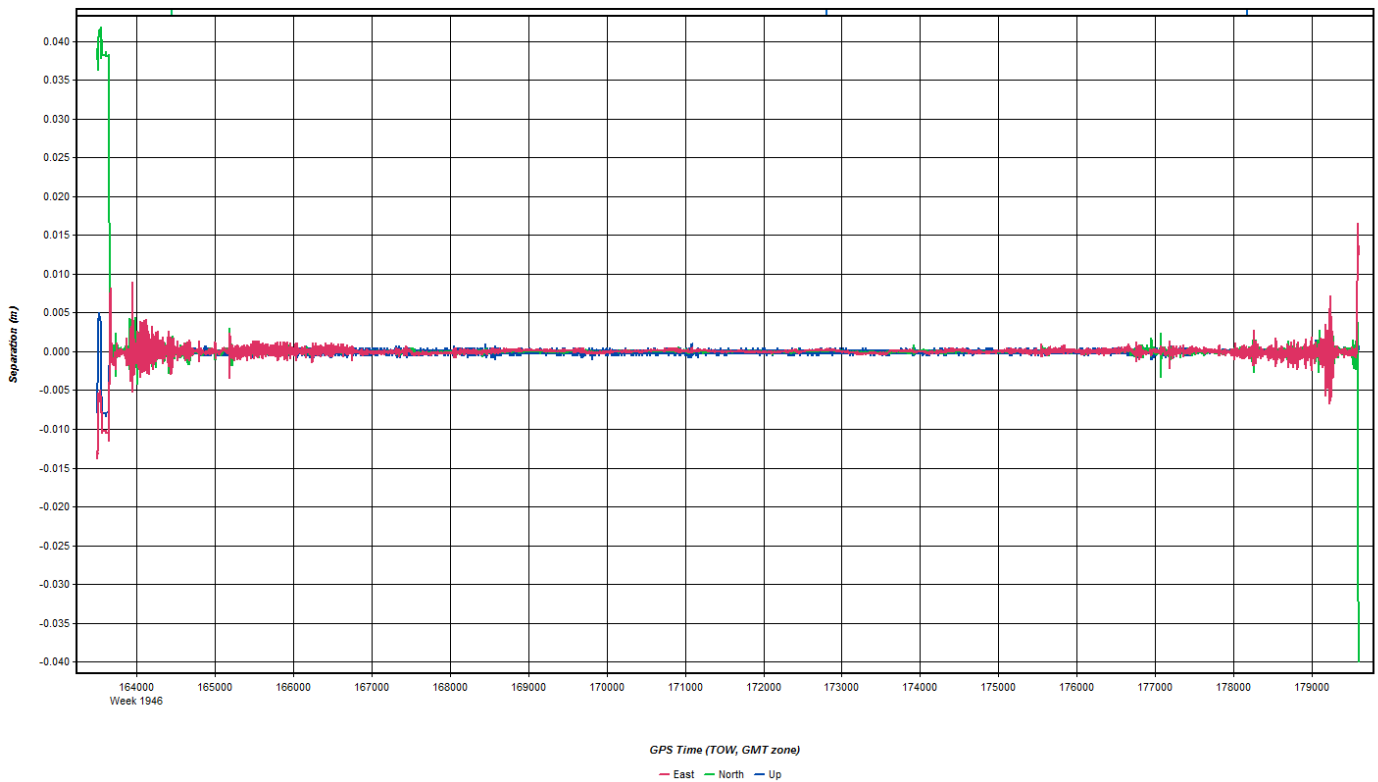
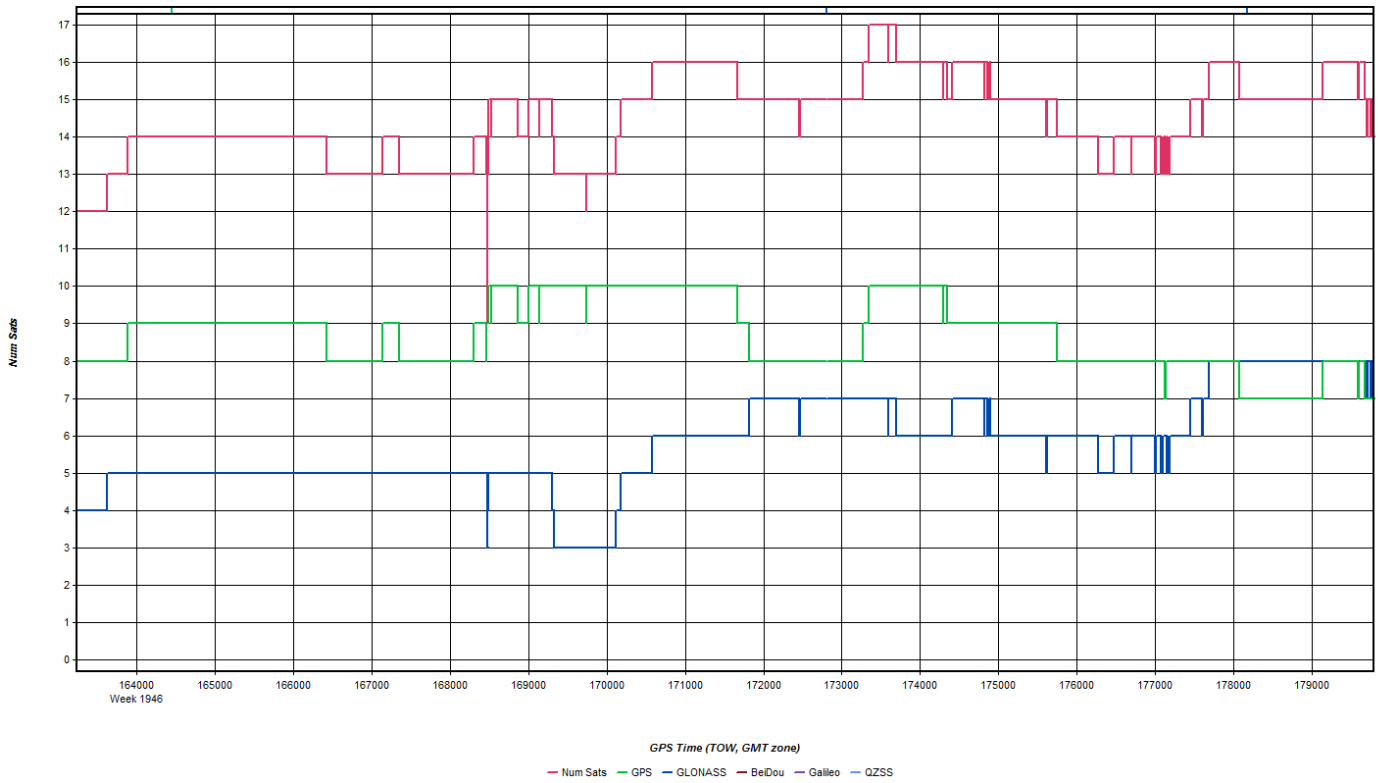
Generated by CamScanner from intsig.com

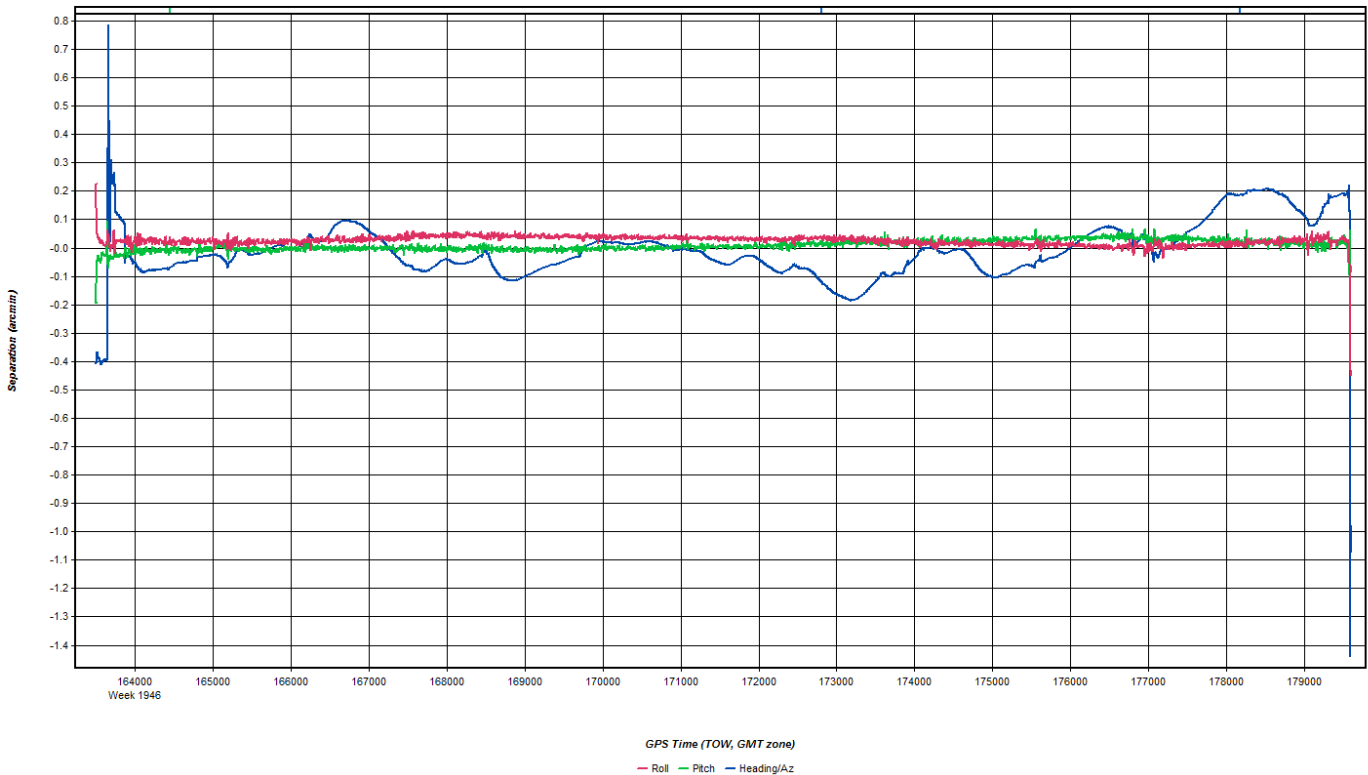
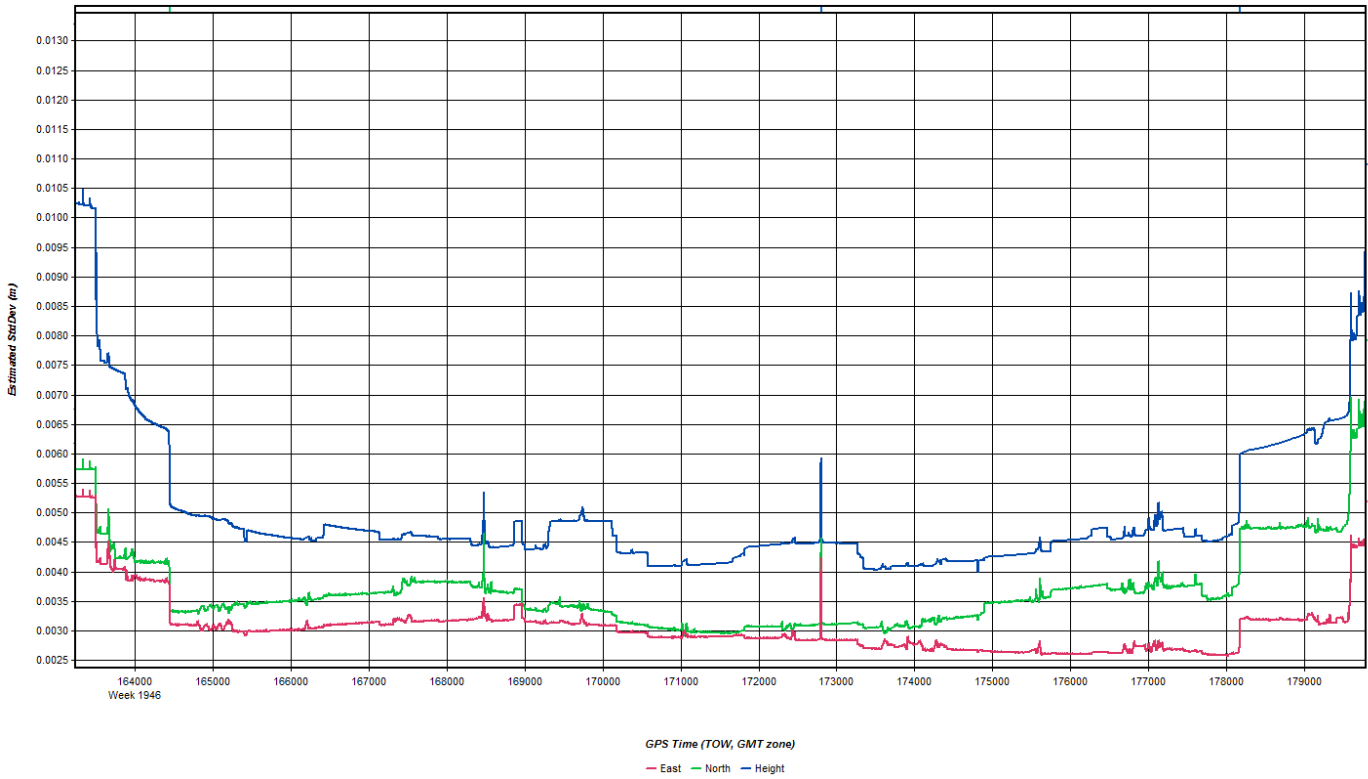
Apr 24, 2017-C (N262AS, SN7161)











Coordinate/Antenna Settings ? X

Master Remote

Base Station
 3: CRON Name: CRON Disabled
 File: F:\Proc\28571_WROC_Sawyer_7178\J_Swann_4-27-17\28571_W

Coordinates
 Latitude: North 45 34 35.03872 Coord. options
 Longitude: West 88 53 30.43878 Save to Favorites
 Ellipsoidal height: 465.352 m
 Datum: WGS84 Proc Datum: WGS84
 Epoch: year

Antenna Height
 From station file: TRM57971.00, NONE View STA File
 Antenna profile: TRM57971.00 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 ? X

Master Remote

Base Station
 2: PHPS Name: PHPS Disabled
 File: F:\Proc\28571_WROC_Sawyer_7178\J_Swann_4-27-17\28571_W

Coordinates
 Latitude: North 46 03 47.92775 Coord. options
 Longitude: West 89 04 46.06105 Save to Favorites
 Ellipsoidal height: 514.354 m
 Datum: WGS84 Proc Datum: WGS84
 Epoch: year

Antenna Height
 From station file: TRM57971.00, NONE View STA File
 Antenna profile: TRM57971.00 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

Project: WROC Forest

Project #: 28571

Flight Mgmt File: 20170424-211834

Altitude: N262AS

Begin Hobbs: 6565.2

End Hobbs: 6569.5

Total: 4.3

Pilot: McDonald

Co-Pilot: Tech: JSWA7

Dep Apt: KCWA

Arr Apt: KCWA

Air Time (Local): 2050

ZI: 0150

Tot Time Aloft: 4.3

CORS: Y/N

Sta 1: Y/N

Sta 2: Y/N

Flyovers: Y/N

Altitude: 17 °C

OAT beg: 5 °C

End: 4 °C

Altimeter begin: 2979

end: 2972

Date: 4-24-17

Lift: A

Page: 1 of 2

Line #	Hdg	Start (UTC)	End (UTC)	Gd Spd	PDOP/sats	GPS Altitude	Crab	Turb (0..4)	FLIGHT LINE NOTES - visibility, clouds, smoke, partial, etc.			
									Avg Terr Ht	Max Gdspd	Avg Pt Spacing	Power PFSM
7	3	2130	2152	148	1.2/17	7200	0/-		KCWA → Fig 8's (2146-2152)			
8	183	2212	2227	137	1.1/17	7303	0/-					
9	3	2233	2245	145	1.0/19	7260	0/-					
10	183	2249	2303	122	1.0/19	7378	0/-					
11	3	2310	2328	154	1.0/20	7290	0/-					
12	183	2333	2351	141	1.1/17	7295	0/-					
13	3	2355	0012	144	1.1/18	7291	0/-		unplanned X tie			
X tie	90	0018	0020	150	1.0/19	7325	0		(CWA)			
22	183	0027	0044	138	1.1/19	7330	0		- Return for fuel - (FBO/closes 9pm)			
23	3	0047	0103	155	1.3/16	7301	0		- unplanned			
X tie	270	0106	0109	132	1.3/18	7350	0		- Fig 8's (0109-0115)			
									- KCWA (0150)			
									Hobbs = 4.3			
									online = 3.3			
									MOB = 1.0			

Total Proj Lines: _____

Lines Flown: _____

Lines Remain: _____

Online Time: 3.3

Mob Time: 1.0

Notes: _____

Date: 4-24-17 D
 LITE A B C D E Pg 2 of --

Project: WROC Forest
 (email log daily to flight_log_distribution_list@quantumspatial.com)
 Proj #: 28571 Flight Mgmt File:

Aircraft: NZ62AS Begin Hobbs: 6569.5 End Hobbs: 6570.1 Total: 0.6 Pilot: C McDonald Co-Pilot: Tech: J Swan

Dep Apt: KCWA Dep Time (Lcl): 2130 (Z): 0230 Arr Apt: KCWA Arr Time (Local): 2215 (Z): 0315 Tot Time Aloft: 0.6

CORS: Y/N Sta 1: Sta 2: Flyovers: Y/N (N) If Y, times: Sta1) Sta2)

GPS Unit: Y/N (N) Sta 1: Sta 2: Flyovers: Y/N If Y, times: Sta1) Sta2)

Gd Temp beg: 15 °C End: °C OAT beg: °C End: °C		Alt AMSL		Alt AGL		MPLA Y/N		Pulse Rate		Pulse Rate		Max Gdspd Power		Avg Pt Spacing IPRM		Mag End Ter		Storage Name#	
Type	Serial #	Alt AGL	Alt AMSL	MPLA Y/N	Pulses In Air	Pulse Rate	Pulse Rate	Max Gdspd	Power	Avg Pt Spacing	IPRM	Mag End Ter	Mag End Ter	Mag End Ter	Mag End Ter	Mag End Ter	Mag End Ter	Mag End Ter	Mag End Ter
LIDAR	1570	40	53			299													369
																			369
																			18

FLIGHT LINE NOTES - visibility, clouds, smoke, partial, etc.

24 KCWA → Fig 8's ()

* Severe chop at Altitude Near A01

R+B - KCWA*

* No Data Acquired *

① H₆₅₅ = 0.6 H₆₅₅ = 4.9

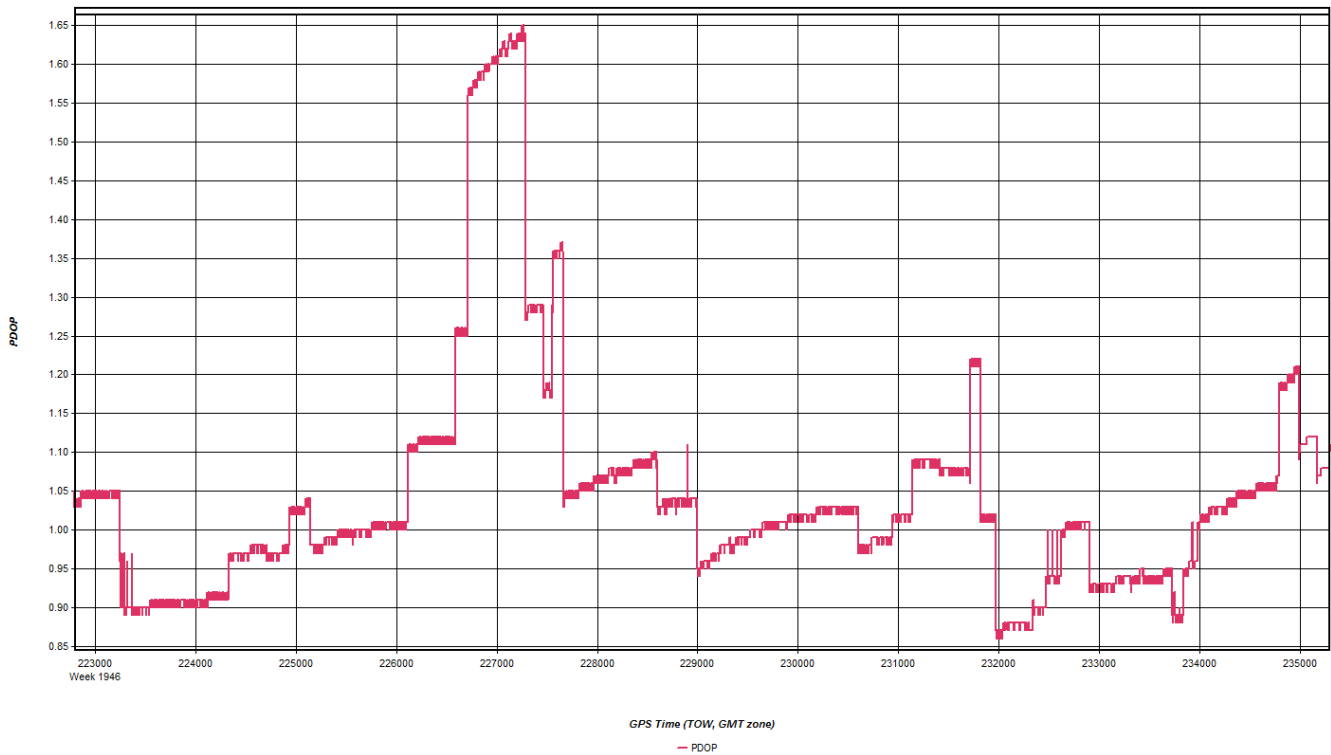
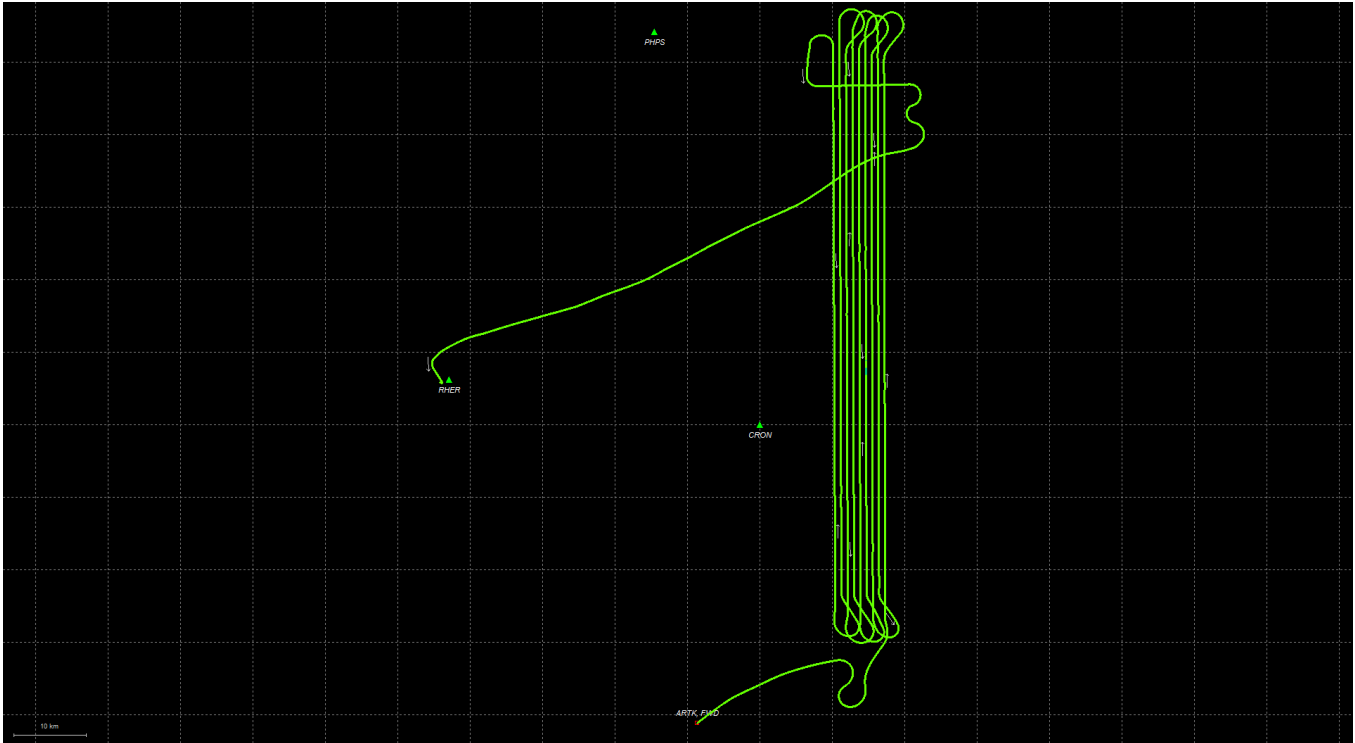
online = 0 online = 3.3

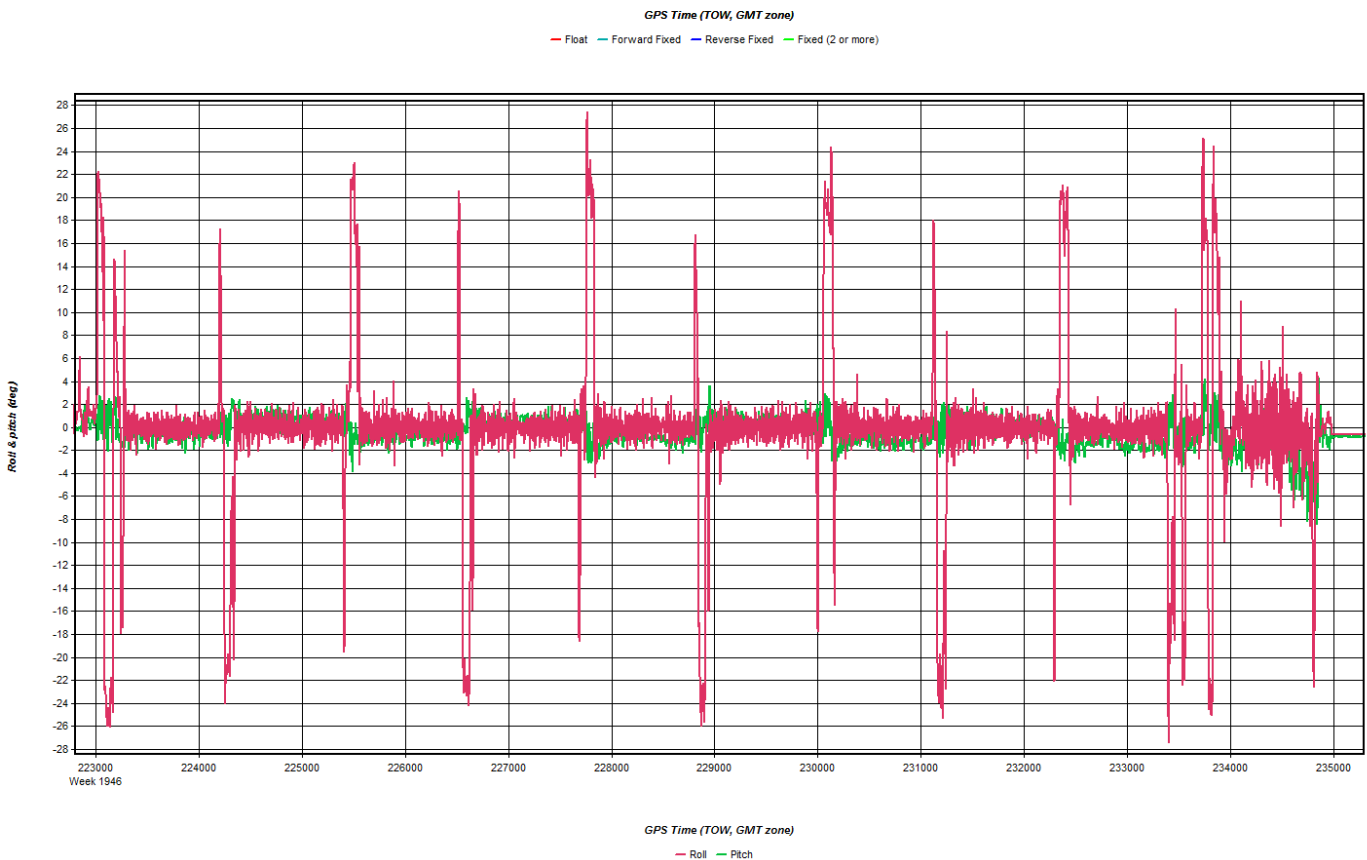
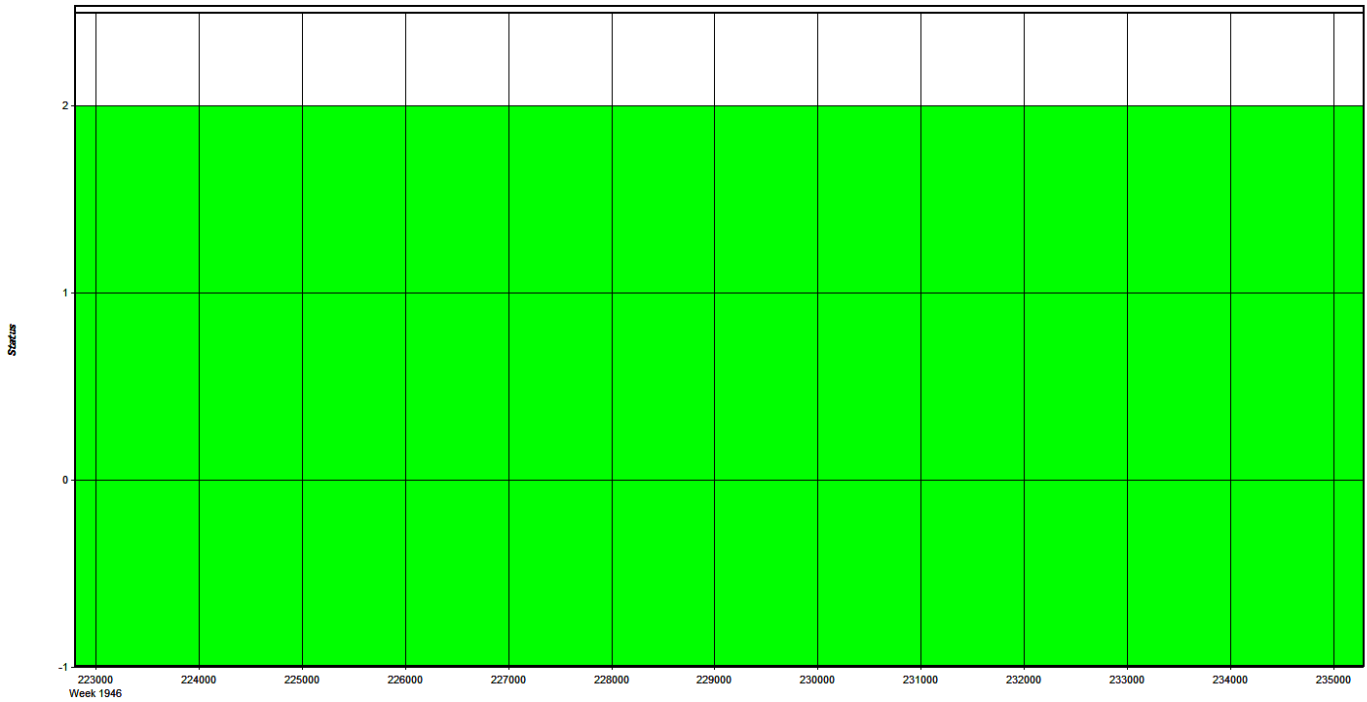
met = 0.6 met = 1.6

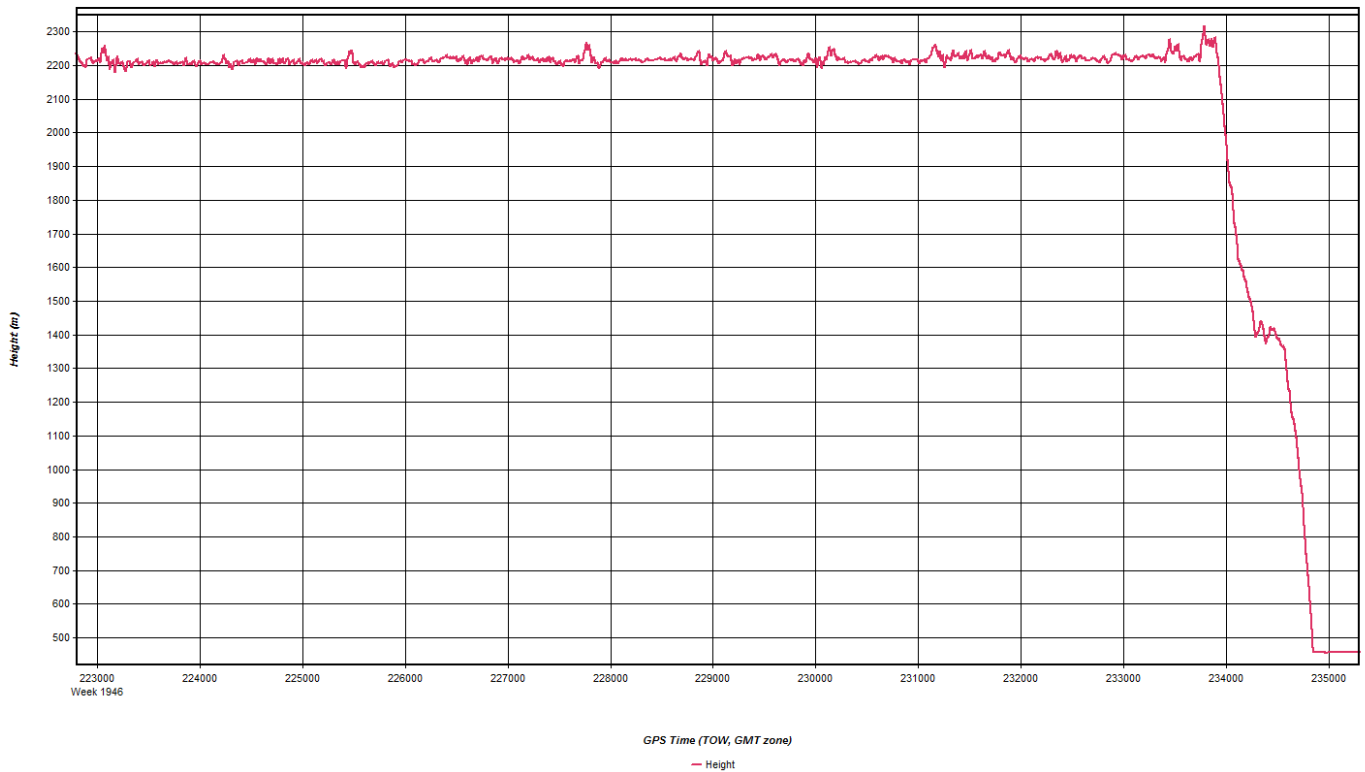
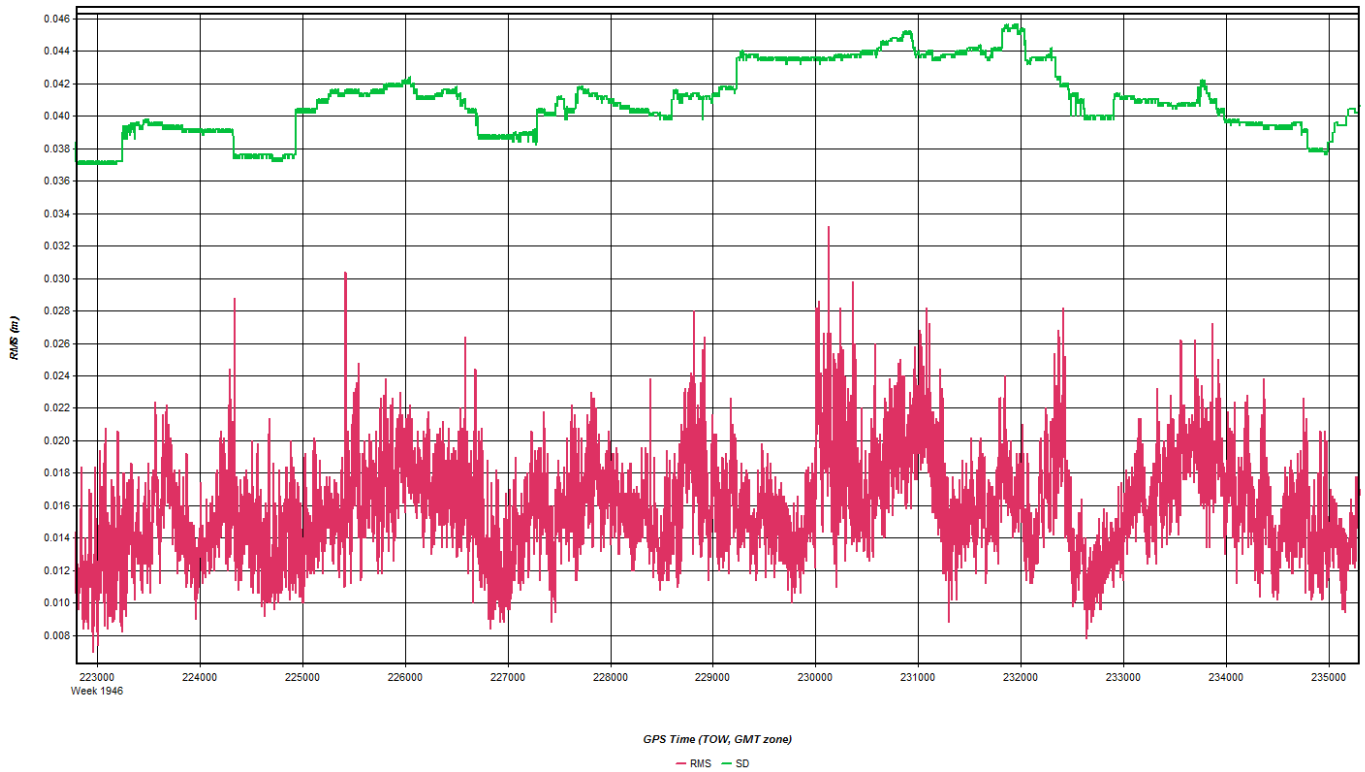
② C+D

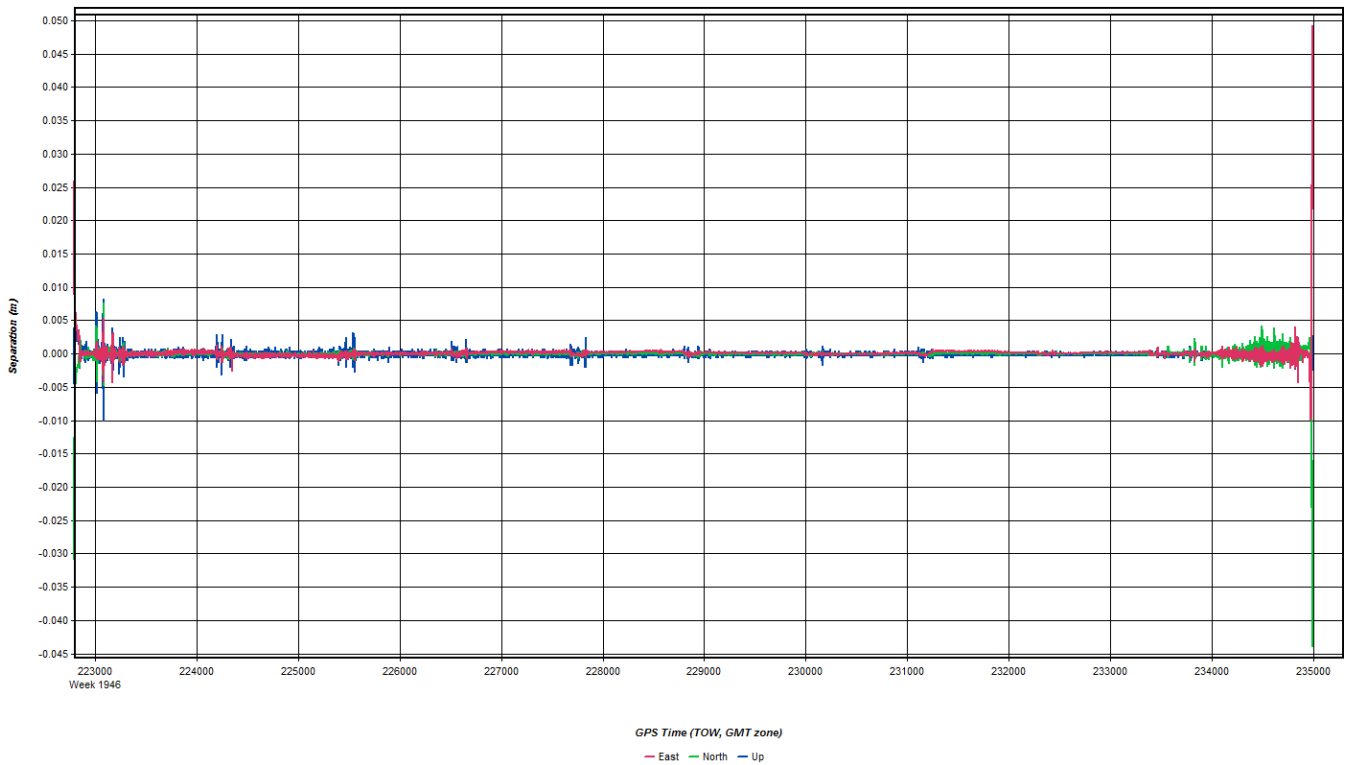
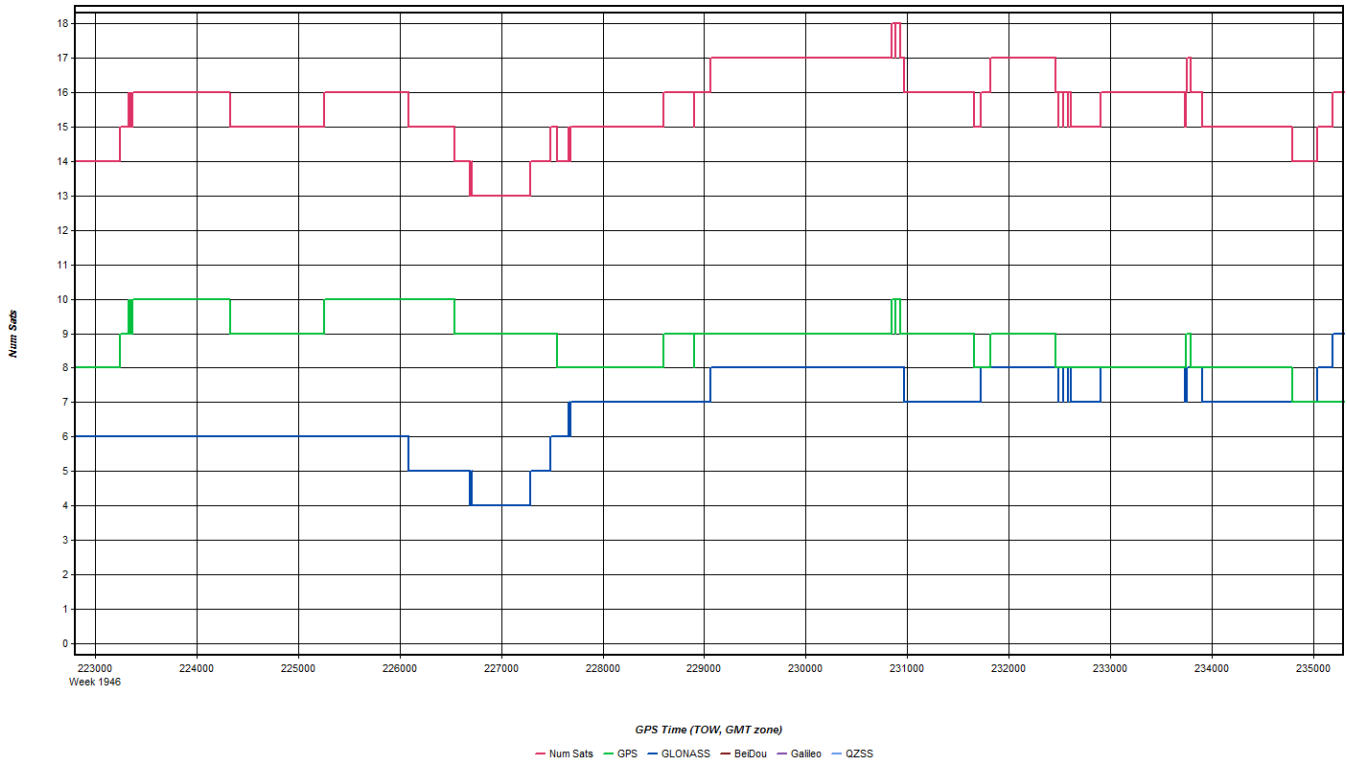
Total Proj Lines: Lines Flown: Lines Remain: Online Time: Mob Time: Notes:

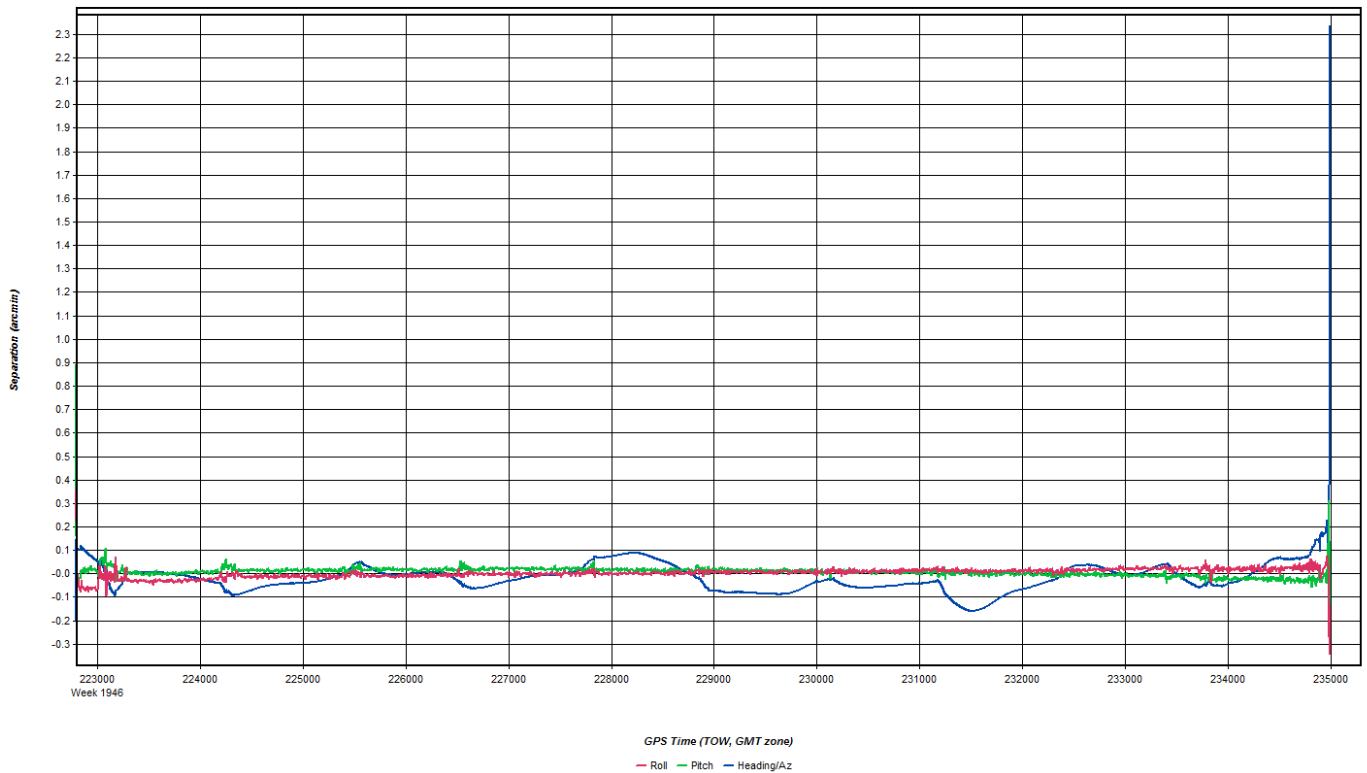
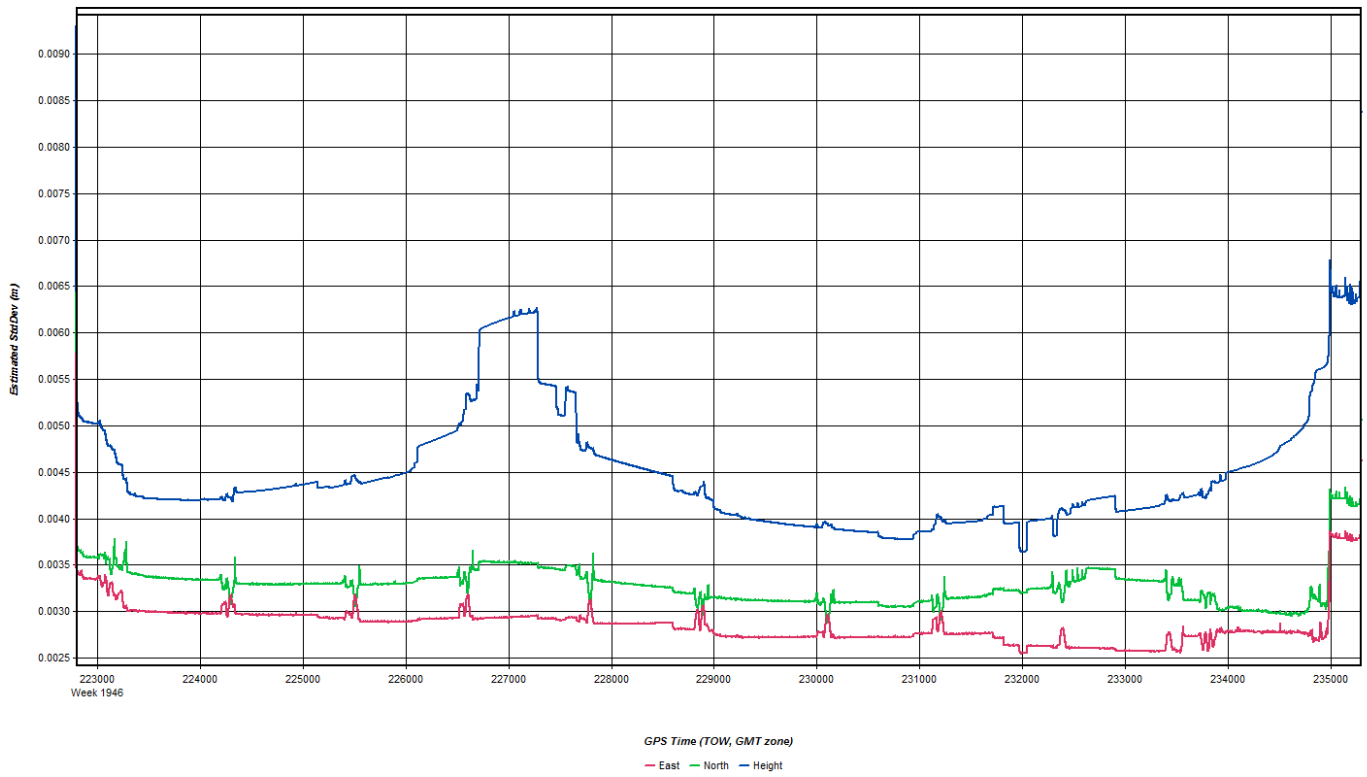
Apr 25, 2017-A (N262AS, SN7161)











Coordinate/Antenna Settings ? X

Master Remote

Base Station
 1: CRON Name: CRON Disabled
 File: F:\Proc\28571_WROC_Sawyer_7178\Doug_Carey_4-26-17\Forest |

Coordinates
 Latitude: North 45 34 35.03872 Coord. options
 Longitude: West 88 53 30.43878 Save to Favorites
 Ellipsoidal height: 465.352 m
 Datum: WGS84 Proc Datum: WGS84
 Epoch: year

Antenna Height
 From station file: TRM57971.00, NONE View STA File
 Antenna profile: TRM57971.00 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 ? X

Master Remote

Base Station
 2: PHPS Name: PHPS Disabled
 File: F:\Proc\28571_WROC_Sawyer_7178\Doug_Carey_4-26-17\Forest |

Coordinates
 Latitude: North 46 03 47.92775 Coord. options
 Longitude: West 89 04 46.06105 Save to Favorites
 Ellipsoidal height: 514.354 m
 Datum: WGS84 Proc Datum: WGS84
 Epoch: year

Antenna Height
 From station file: TRM57971.00, NONE View STA File
 Antenna profile: TRM57971.00 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 ? X

Master Remote

Base Station
 3: RHER Name: RHER Disabled
 File: F:\Proc\28571_WROC_Sawyer_7178\Doug_Carey_4-26-17\Forest

Coordinates
 Latitude: North 45 37 58.25303 Coord. options
 Longitude: West 89 26 37.85578 Save to Favorites
 Ellipsoidal height: 460.814 m
 Datum: WGS84 Proc Datum: WGS84
 Epoch: year

Antenna Height
 From station file: TRM57971.00, NONE View STA File
 Antenna profile: TRM57971.00 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

Airborne LIDAR Data Collection Log Sheet :: Quantum Spatial, Inc
(email log daily to flight_log_distribution_list@quantumspatial.com)

Date: 4-25-17
 Lift: A B C D E Pg. 1 of 1

Project: WROC - Forest Co. Proj #: 28571 Flight Mgmt File: 60170425-132345
 Aircraft: N262AS Begin Hobbs: 6570.1 End Hobbs: 6573.7 Total: 3.6 Pilot: RAPTKE Co-Pilot: Tech: CAREY
 Dep Apt: KCWA Dep Time (Lcl): 8:38 (Z): 13:38 Arr Apt: KRHI Arr Time (Local): 12:18 (Z): 17:18 Tot Time Aloft:
 CORS: Y/N Sta 1: wis CORS Sta 2: Flyovers: Y/N IF Y, times: Sta1) Sta2)
 GPS Unit: Y/N Sta 1: Flyovers: Y/N IF Y, times: Sta1) Sta2)

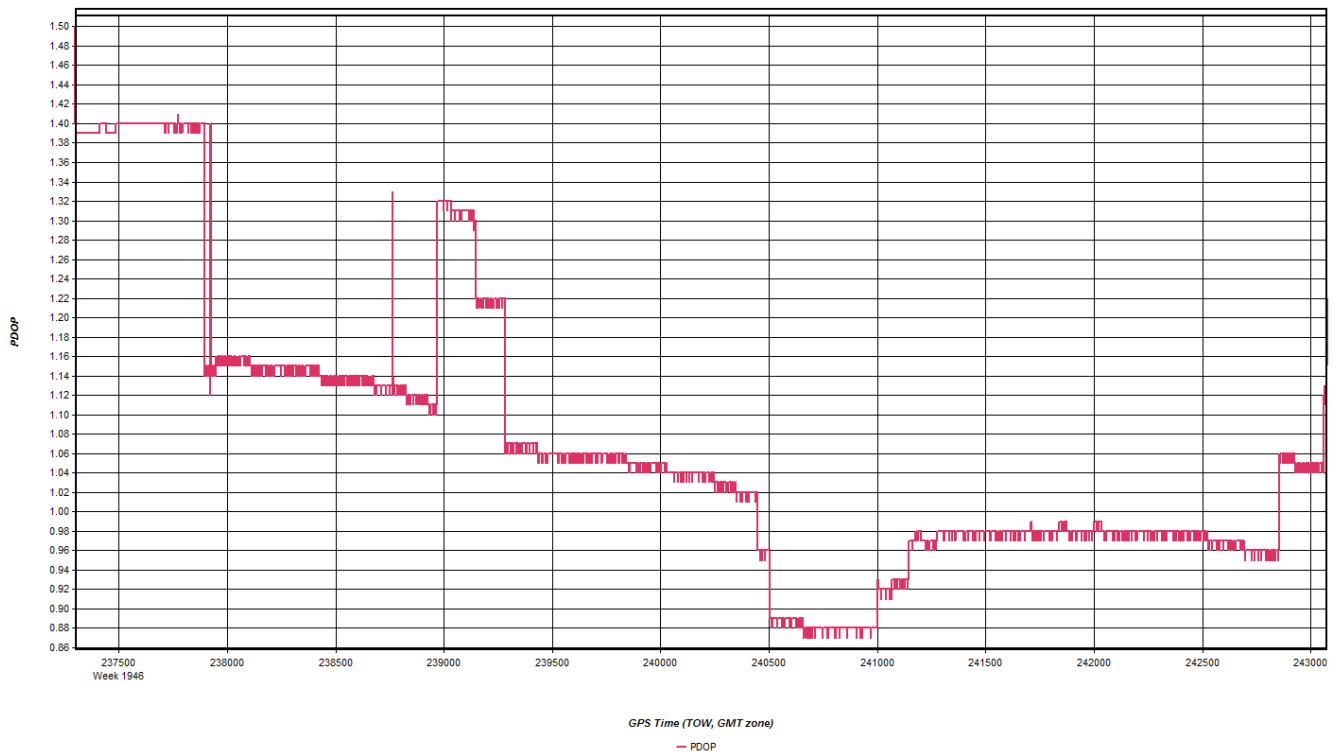
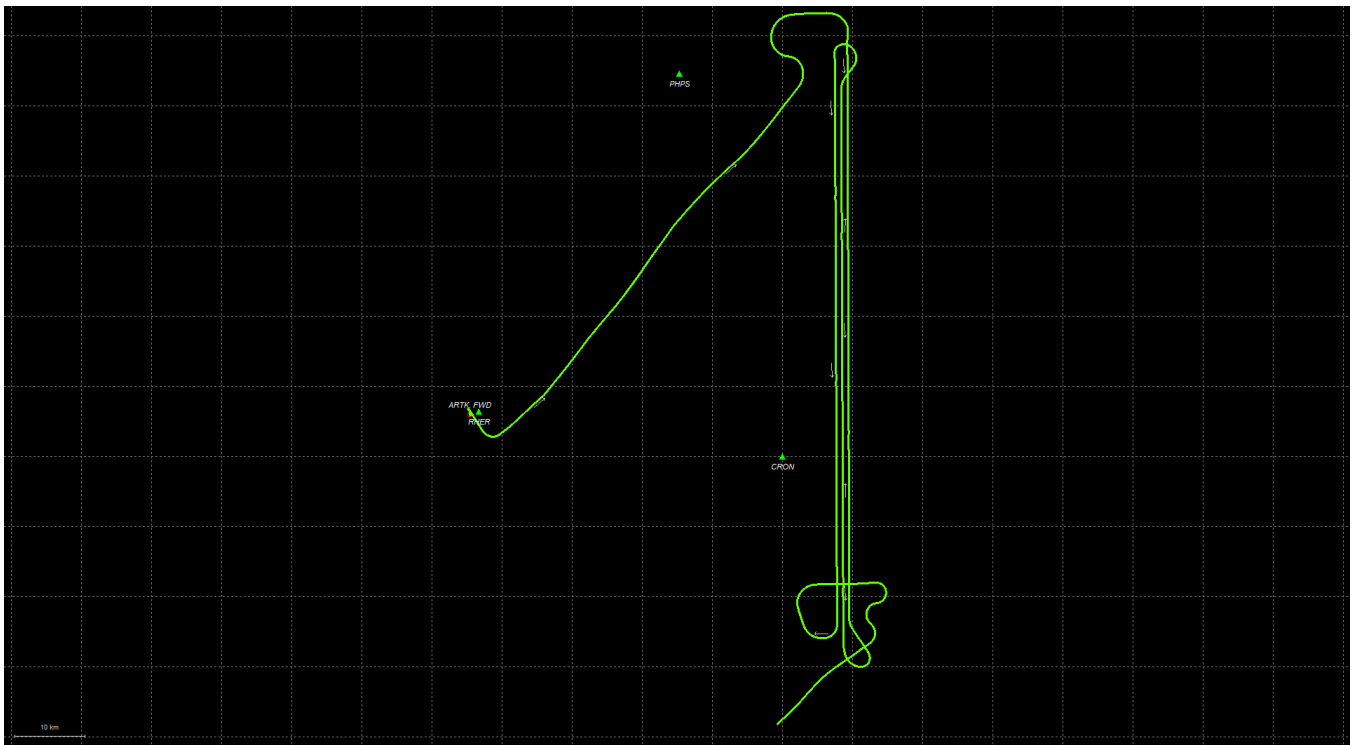
Gd Temp beg:	°C	End:	°C	OAT beg:	°C	End:	°C	Aldimeter begin:	end:
Type ALS-70	7161	Alt AMSL 5525	7234	Avg Terr. ht 1709	Max Gndpd 150	Avg Pt Spacing 150			
FOV 40	Scan Freq 53.4	MPIA (Y) N	2	Pulse Rate 299.4	Power 100%	PPSM 2.2			

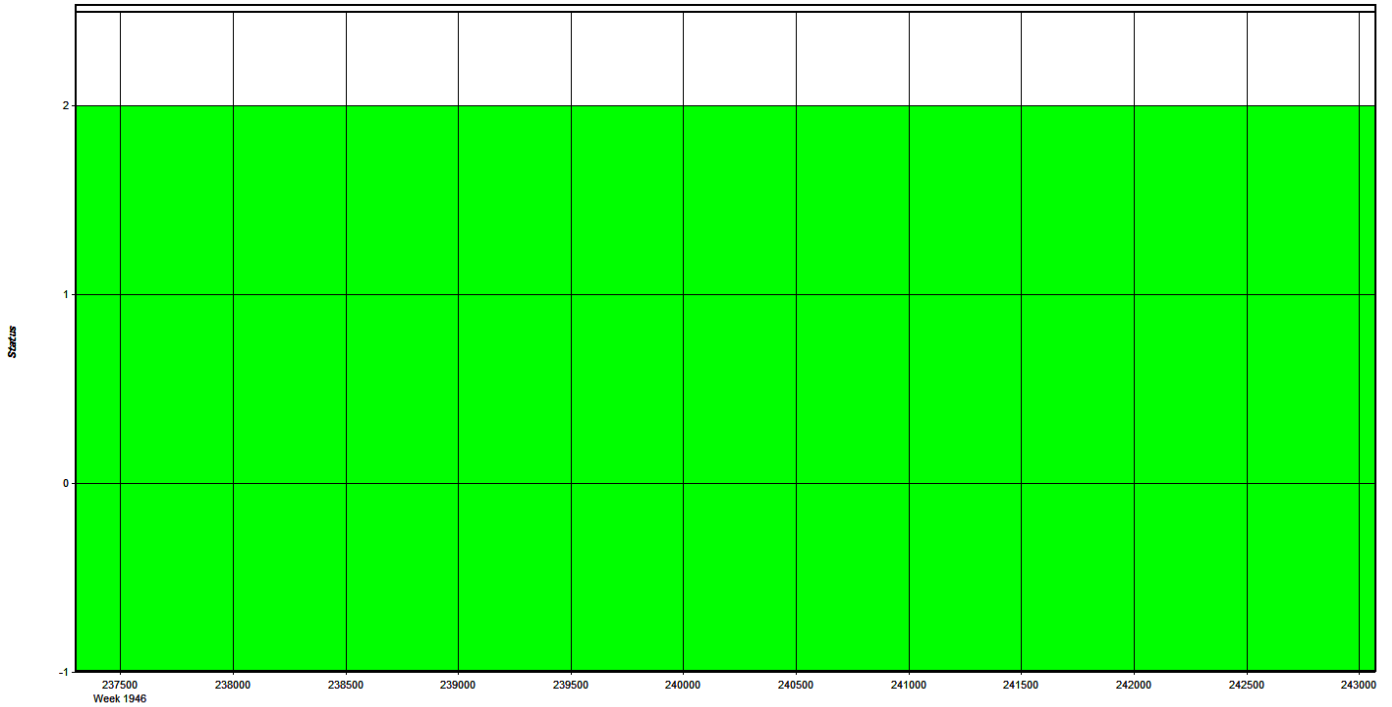
Line #	Hdg	Start (UTC)	End (UTC)	Gd Spd	FOV/Scan	GPS Altitude	Crab	Turb	FLIGHT LINE NOTES - visibility, clouds, smoke, partial, etc.
35	3	1402	1416	7-150	1.1	7234	-	0	KCWA → SITE → S/FIG 1357
34	184	1420	1436		1.0	7257			OVC 12K
33	4	1439	1454		1.2	7267			
32	184	1458	1514		1.2	7293			
31	4	1518	1533		1.4	7290			
30	184	1535	1552	7-150	1.3	7293	+	0	
29	3	1556	1611		1.2	7300			
28	184	1614	1631		1.0	7303			
27	3	1634	1649		1.1	7303	-	0	unplanned XFLT
XFLT 92	1652	1658	150		1.1	7300	✓		S/FIG → SITE → KRHI

Total Proj Lines: 9 Lines Flown: 9 Lines Remain: 3 Online Time: 3:10 Mob Time: 6 Notes: 3017_WROC-Forest-Co

Generated by CamScanner from intsig.com

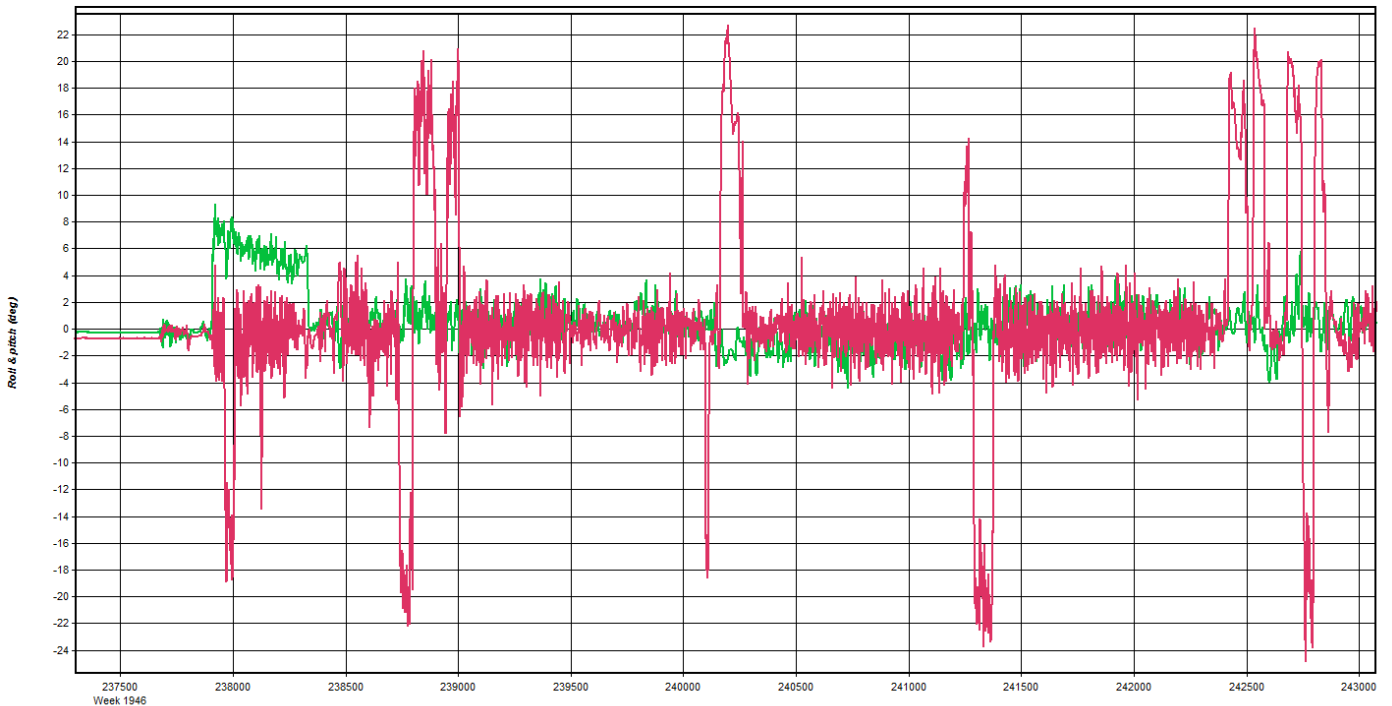
Apr 25, 2017-B (N262AS, SN7161)





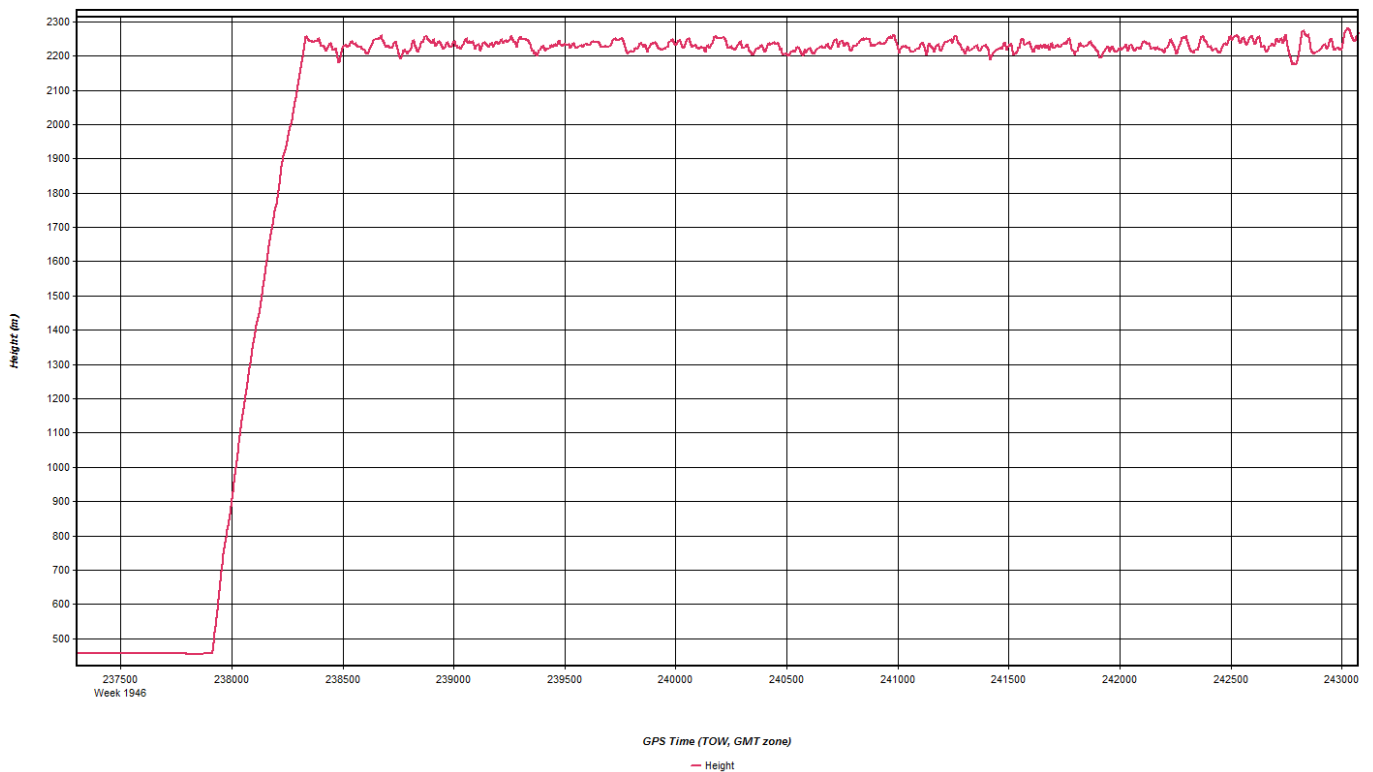
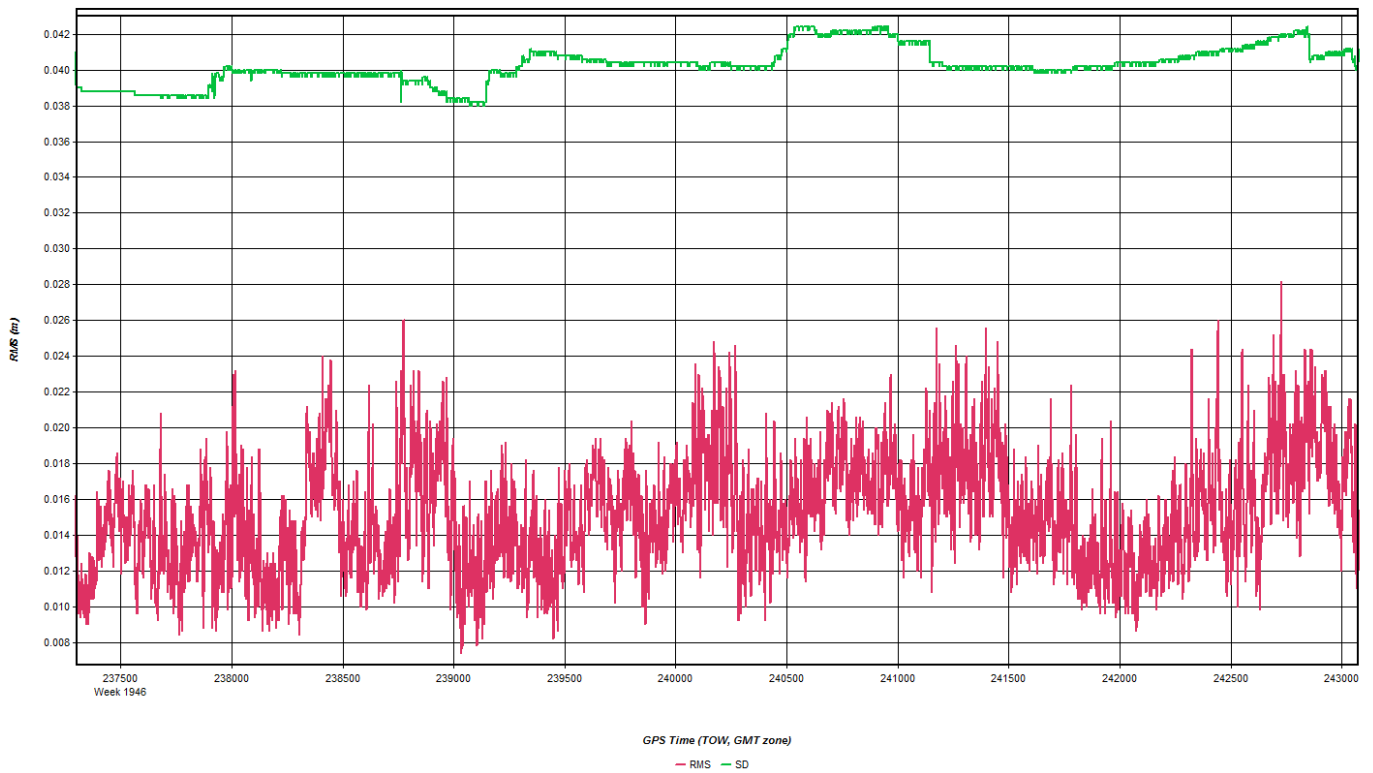
GPS Time (TOW, GMT zone)

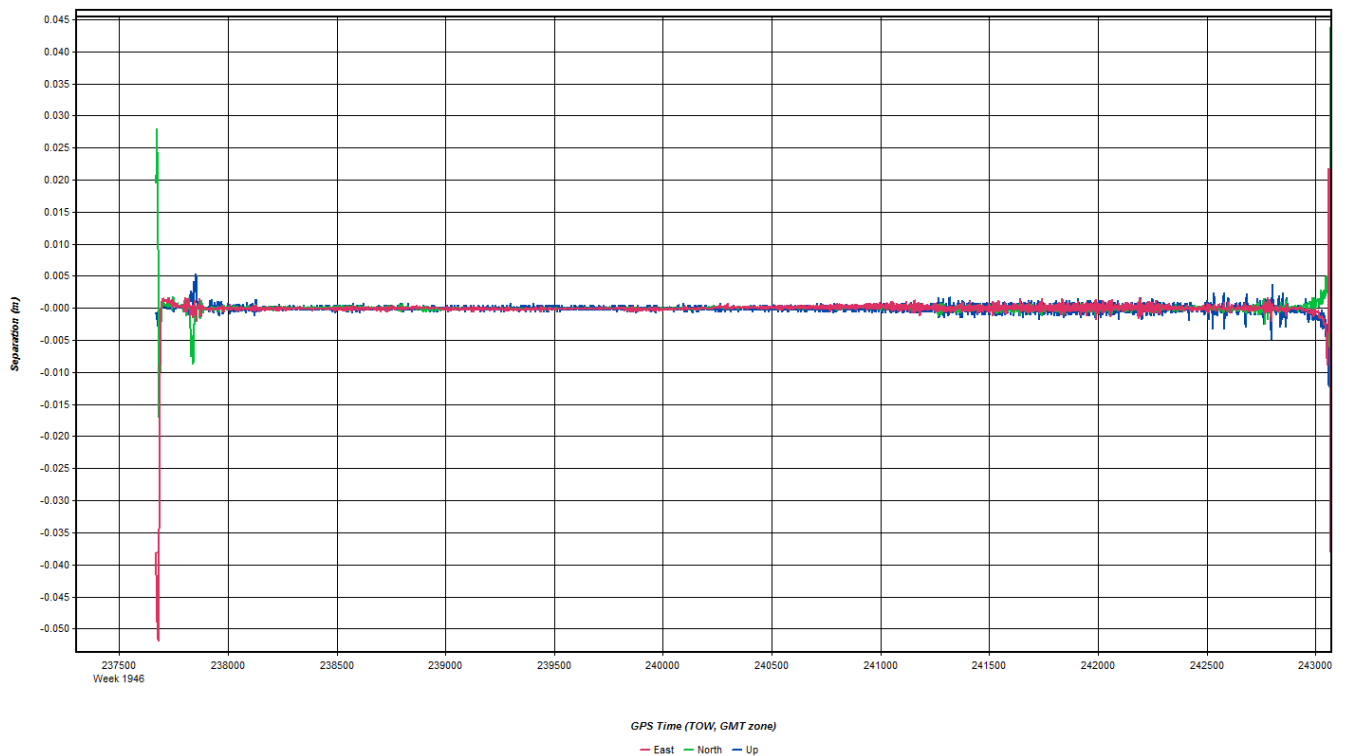
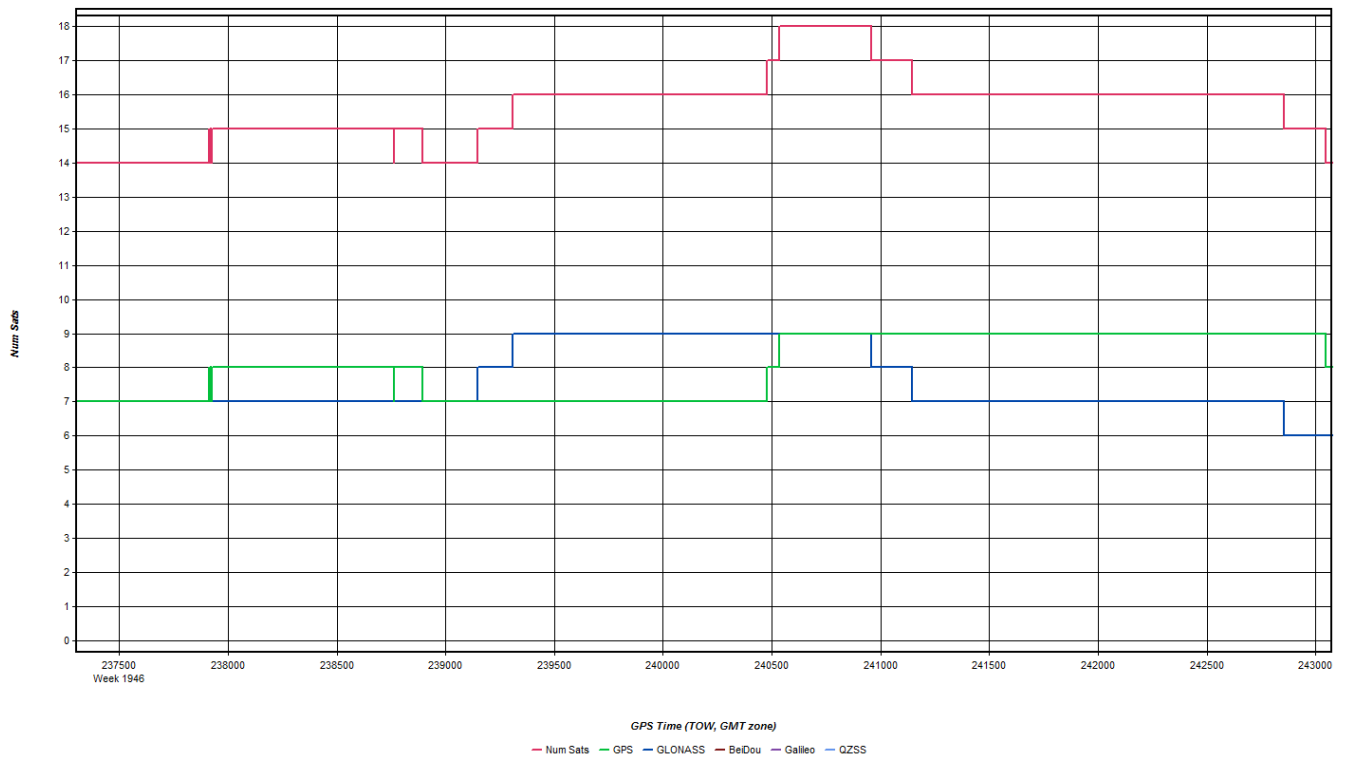
— Float — Forward Fixed — Reverse Fixed — Fixed (2 or more)

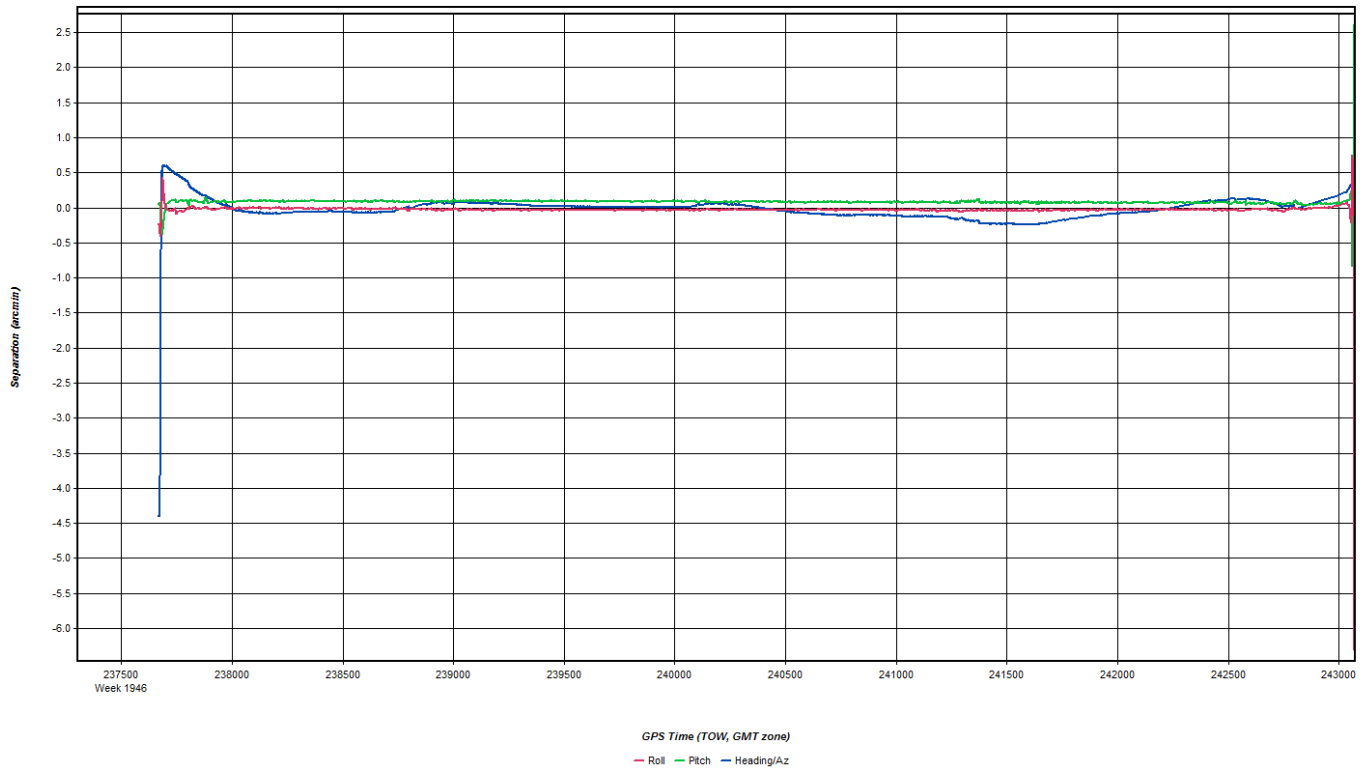
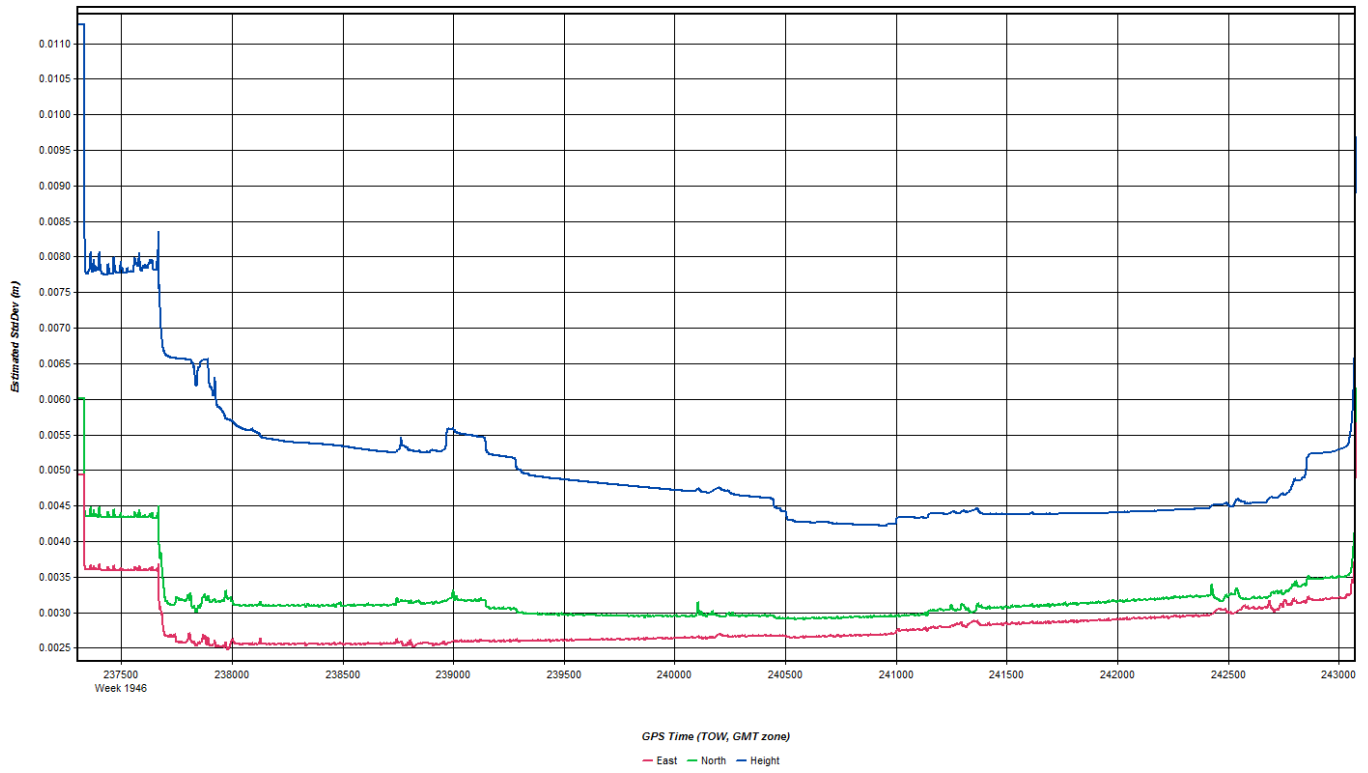


GPS Time (TOW, GMT zone)

— Roll — Pitch







Coordinate/Antenna Settings ? X

Master Remote

Base Station
 1: CRON Name: CRON Disabled
 File: F:\Proc\28571_WROC_Sawyer_7178\Doug_Carey_4-26-17\Forest |

Coordinates
 Latitude: North 45 34 35.03872 Coord. options
 Longitude: West 88 53 30.43878 Save to Favorites
 Ellipsoidal height: 465.352 m
 Datum: WGS84 Proc Datum: WGS84
 Epoch: year

Antenna Height
 From station file: TRM57971.00, NONE View STA File
 Antenna profile: TRM57971.00 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 ? X

Master Remote

Base Station
 2: PHPS Name: PHPS Disabled
 File: F:\Proc\28571_WROC_Sawyer_7178\Doug_Carey_4-26-17\Forest |

Coordinates
 Latitude: North 46 03 47.92775 Coord. options
 Longitude: West 89 04 46.06105 Save to Favorites
 Ellipsoidal height: 514.354 m
 Datum: WGS84 Proc Datum: WGS84
 Epoch: year

Antenna Height
 From station file: TRM57971.00, NONE View STA File
 Antenna profile: TRM57971.00 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 ? X

Master Remote

Base Station
 3: RHER Name: RHER Disabled
 File: F:\Proc\28571_WROC_Sawyer_7178\Doug_Carey_4-26-17\Forest I

Coordinates
 Latitude: North 45 37 58.25303 Coord. options
 Longitude: West 89 26 37.85578 Save to Favorites
 Ellipsoidal height: 460.814 m
 Datum: WGS84 Proc Datum: WGS84
 Epoch: year

Antenna Height
 From station file: TRM57971.00, NONE View STA File
 Antenna profile: TRM57971.00 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

Quantum Spatial
(email: Log daily to flight_Log_distribution_List@quantumspatial.com)

Airborne LiDAR Data Collection Log Sheet :: Quantum Spatial, Inc

Date: 4-25-17 Pg. 1 of 1

Project: WROC - FOREST Co Proj #: 28571 Flight Mgmt File: 20170425-175333

Aircraft: N262AS Begin Hobbs: 6573.7 End Hobbs: 6575.5 Total: 1.8 Pilot: RADTKE Co-Pilot: --- Tech: CAREY

Dep Apt: KRHI Dep Time (Ldt): 1307 (Z) Air Apt: KCWA Air Time (Local): 1450 (Z) 1950 Tot Time Aloft:

CORS: WIN Sta 1: Wiscors Sta 2:

GPS Unit: Y/N Sta 1: Flyovers: Y/N IF Y, times: Sta1) Sta 2) Flyovers: Y/N IF Y, times: Sta1) Sta 2)

Gd Temp beg: °C End: °C OAT beg: °C End: °C Altimeter begin: end:

Type	Serial #	Alt AGL	Alt MSL	Avg Terr Ht	Max Glpd	Avg Pt Spacing
LIDAR	40	53.4	MplA	1709	150	150
FOV	40	53.4	MplA	299.4	Power	100%, 2.2

Line #	Start (UTC)	End (UTC)	Gd Spd	POF/Rate	GPS Altitude	Crab	Turn (0-180)	FLIGHT LINE NOTES - visibility, clouds, smoke, partial, etc
26	184 1825	1941	1150	1.2	7316	-	-	KRHI → SITE → S/Fig 1819
25	3 1844	1900		1.2	7316	-	-	- chop / SCT - OVC 10K Northend of line
24	184 1903	1919		1.1	7300	-	-	- chop thru out
XFLT	90 1923	1924		1.2	7300	-	-	- FELT thru out / Too much turbulence
								XFLT unplanned
								S/Fig → KCWA

Reg CB: 219 Score Name: 15

End CB: B Tot CB: ---

Total Proj Lines: X Lines Flown: 3 Lines Remain: 0 Online Time: 1:0 Mob Time: 1:8 Notes: 2017 WROC Forest Co

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