

Project Report Appendices

The following section contains the appendices as listed in the Connecticut River, Winnepesaukee River, and White Mountain National Forest Project Report.

Appendix A

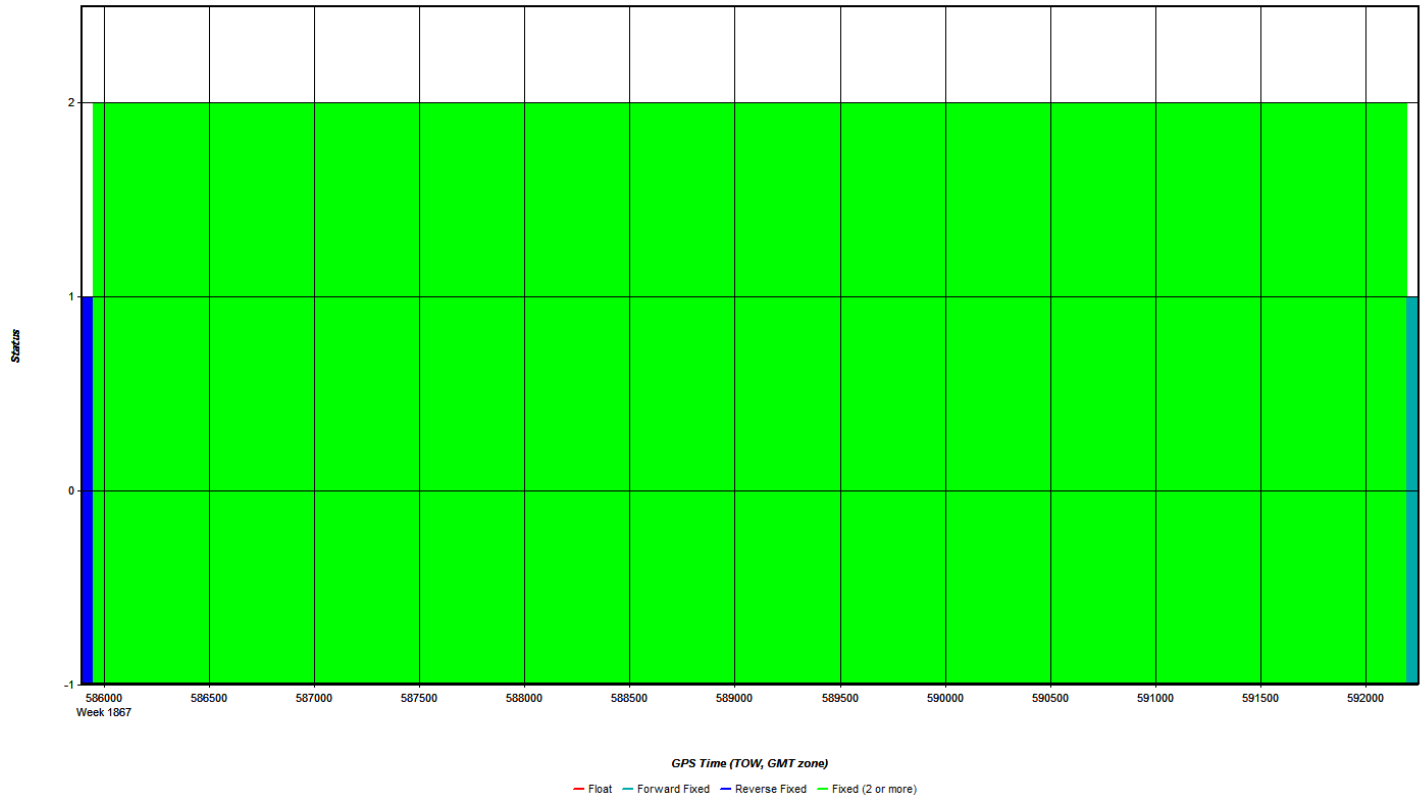
GPS/IMU Processing Statistics Flight Logs Base Station Logs

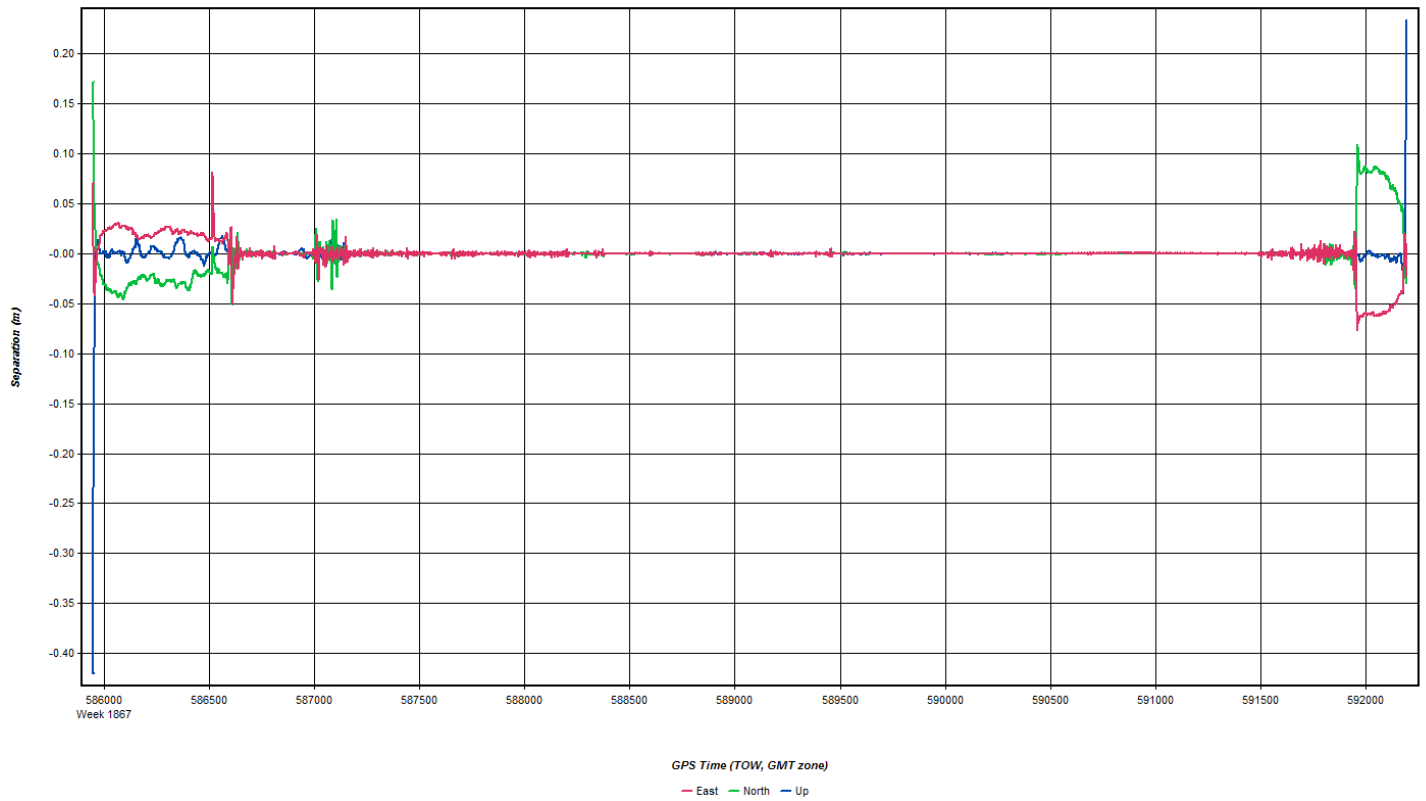
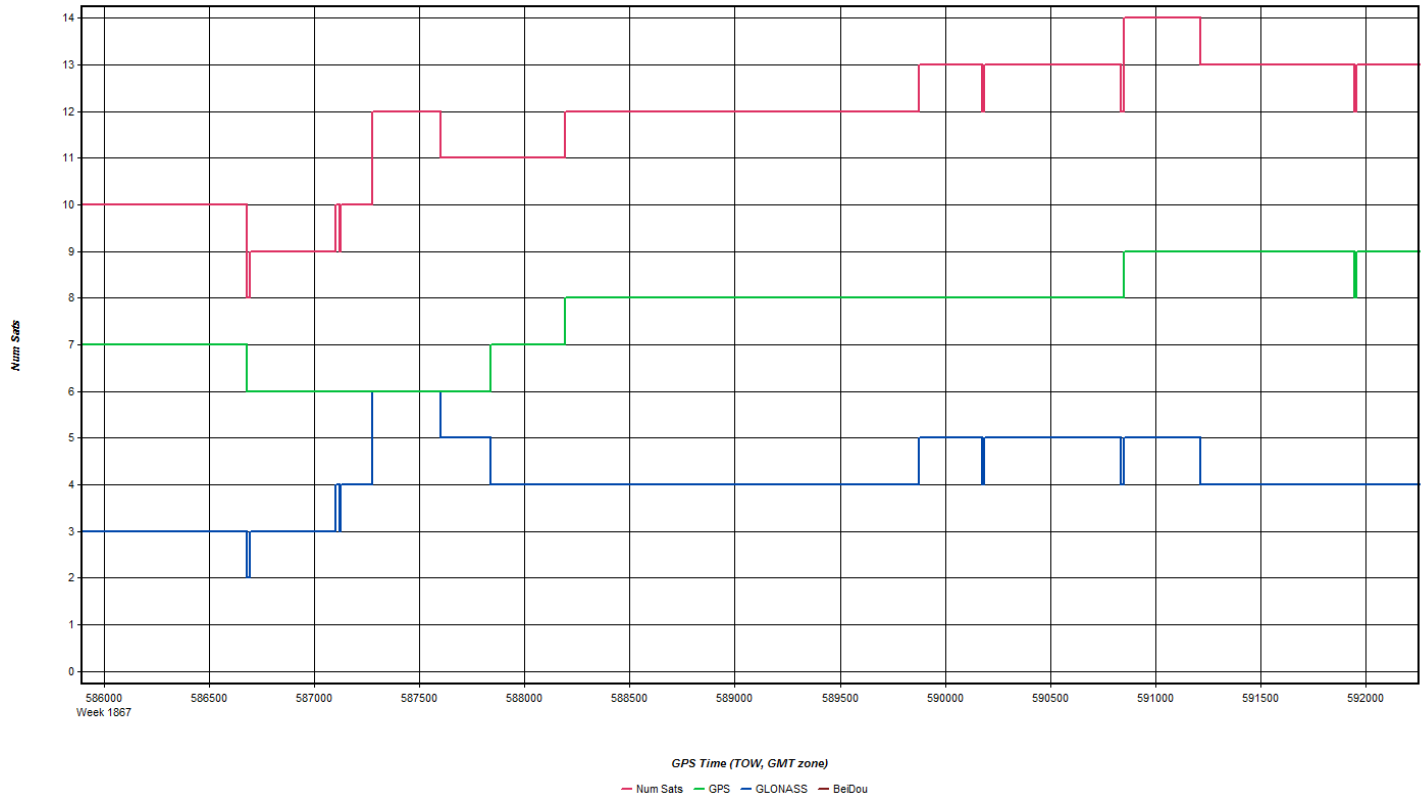
There were 45 total lifts. Graph reports generated from processing software, flight logs, and base station logs are found on the following pages.

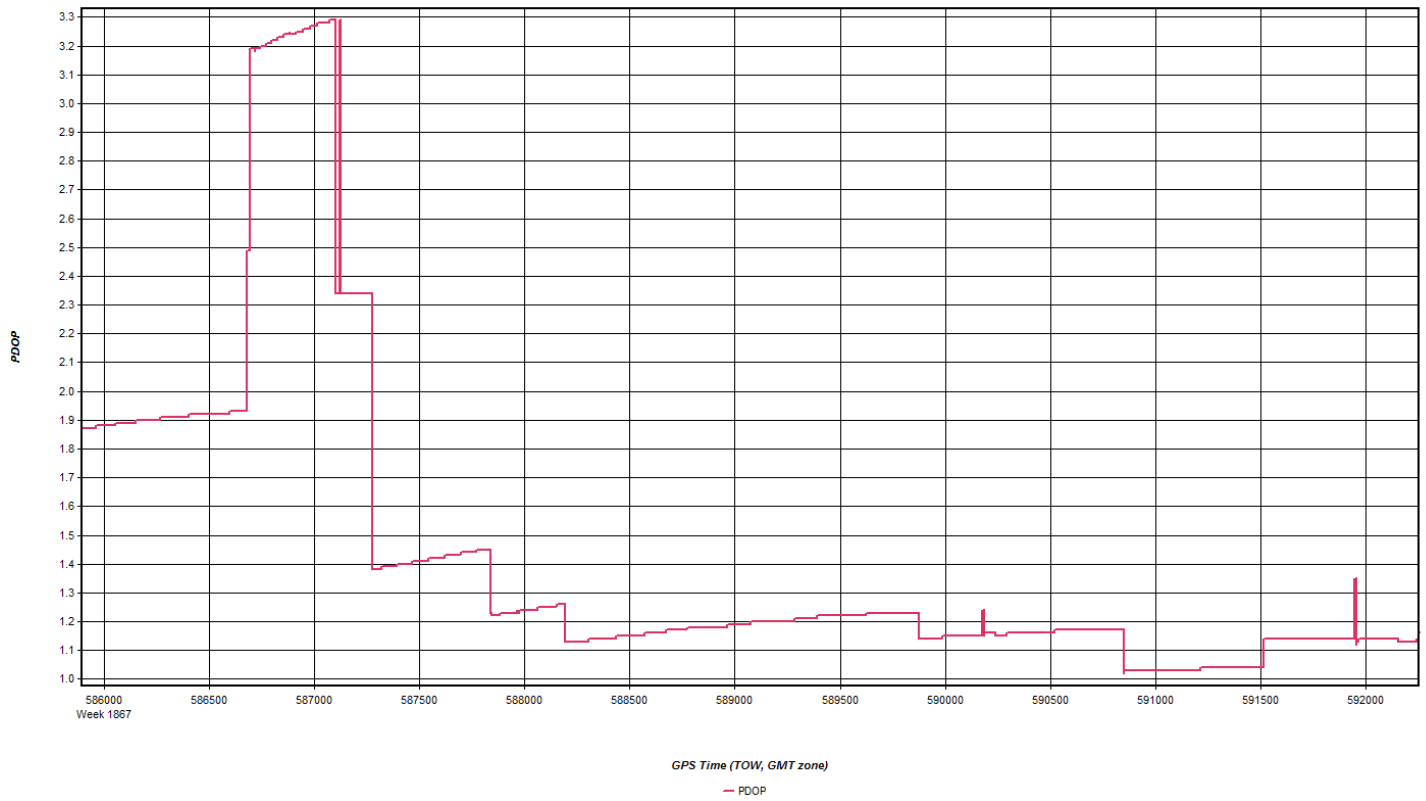
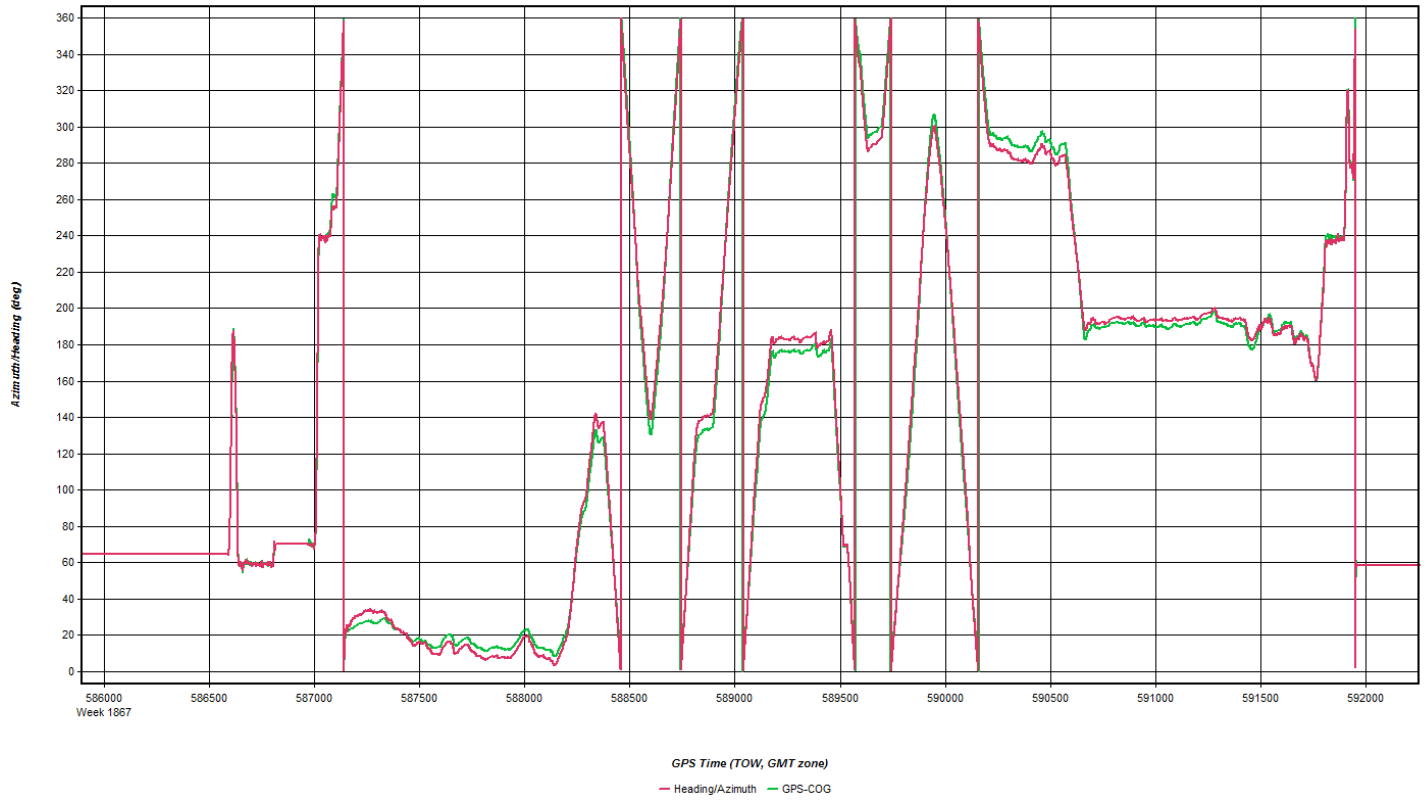
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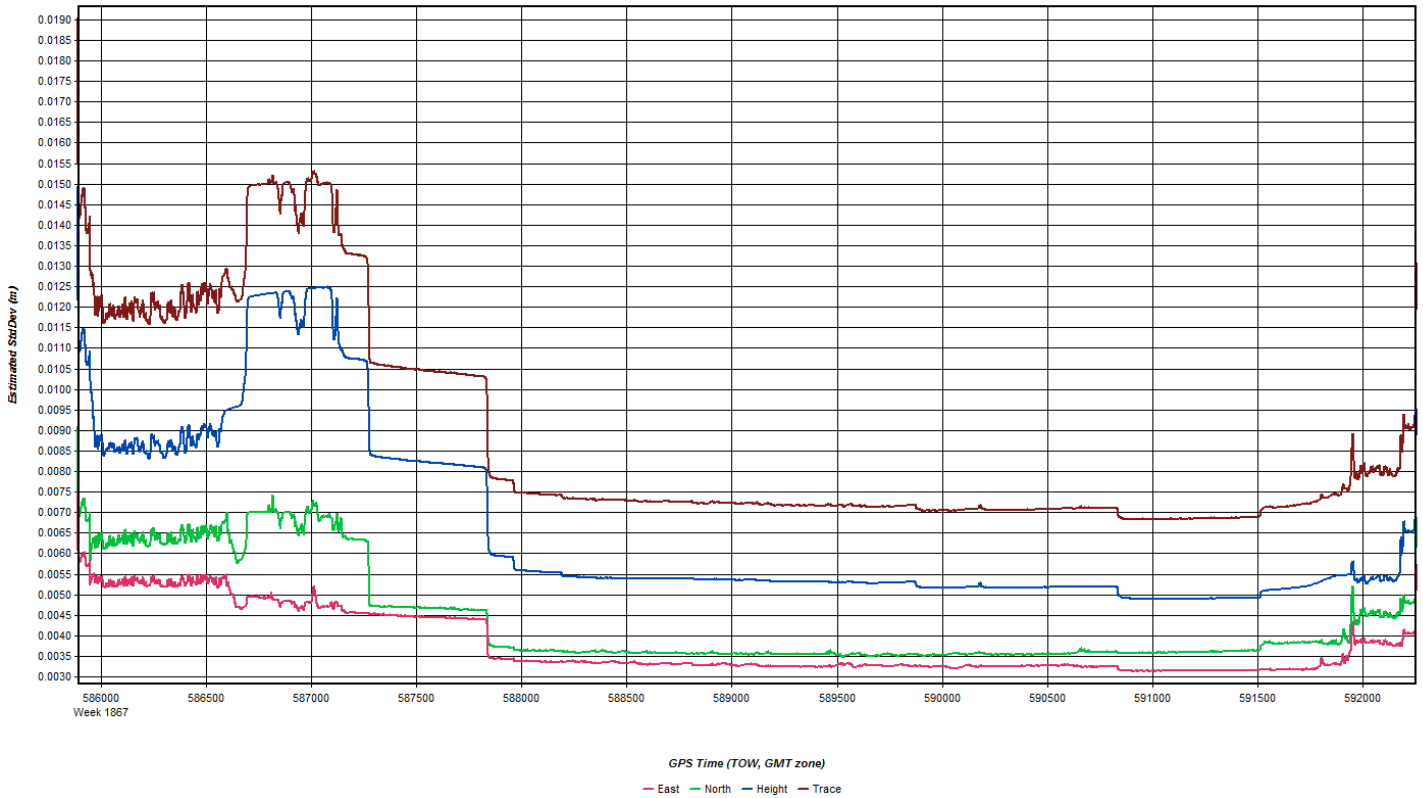
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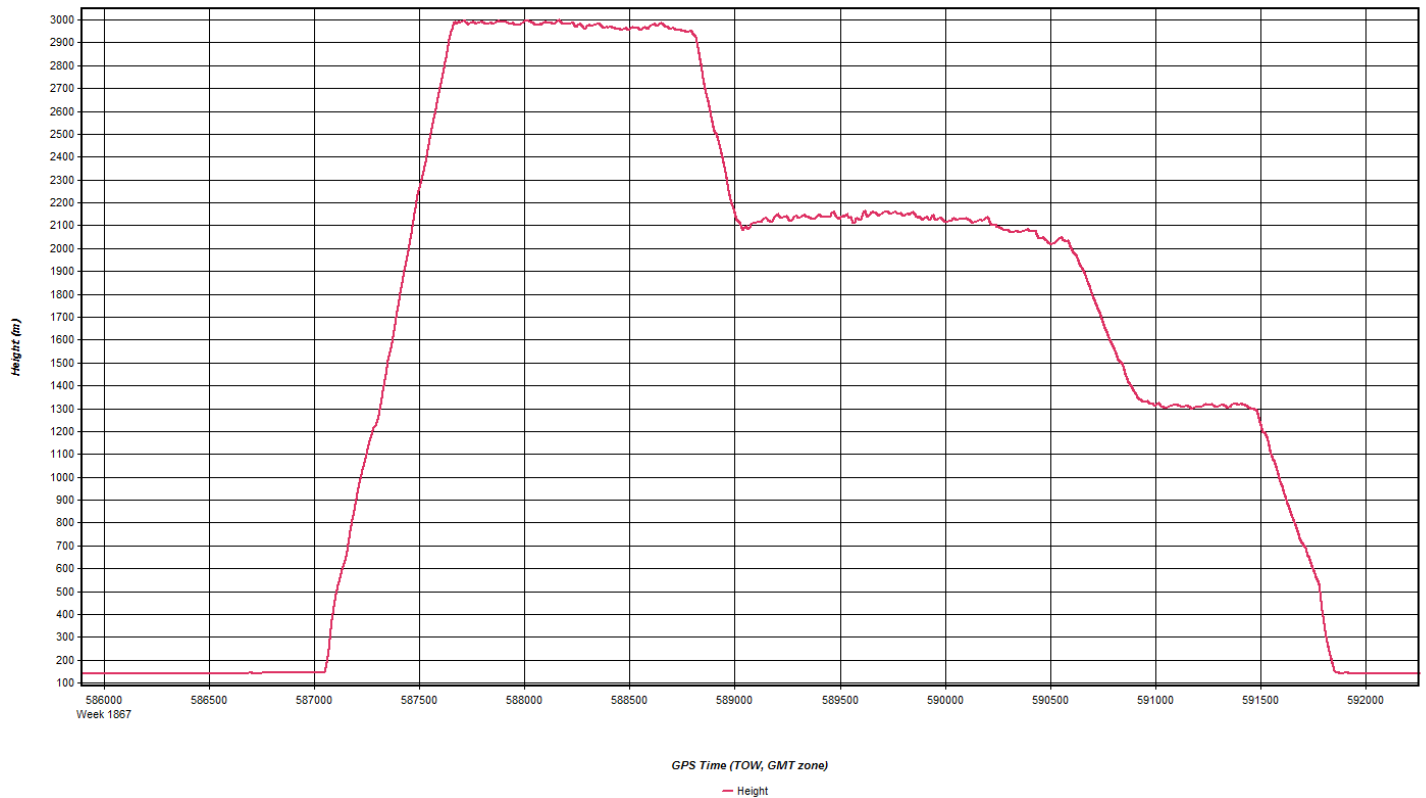
Oct 24, 2015-B (N22GE, SN7178)

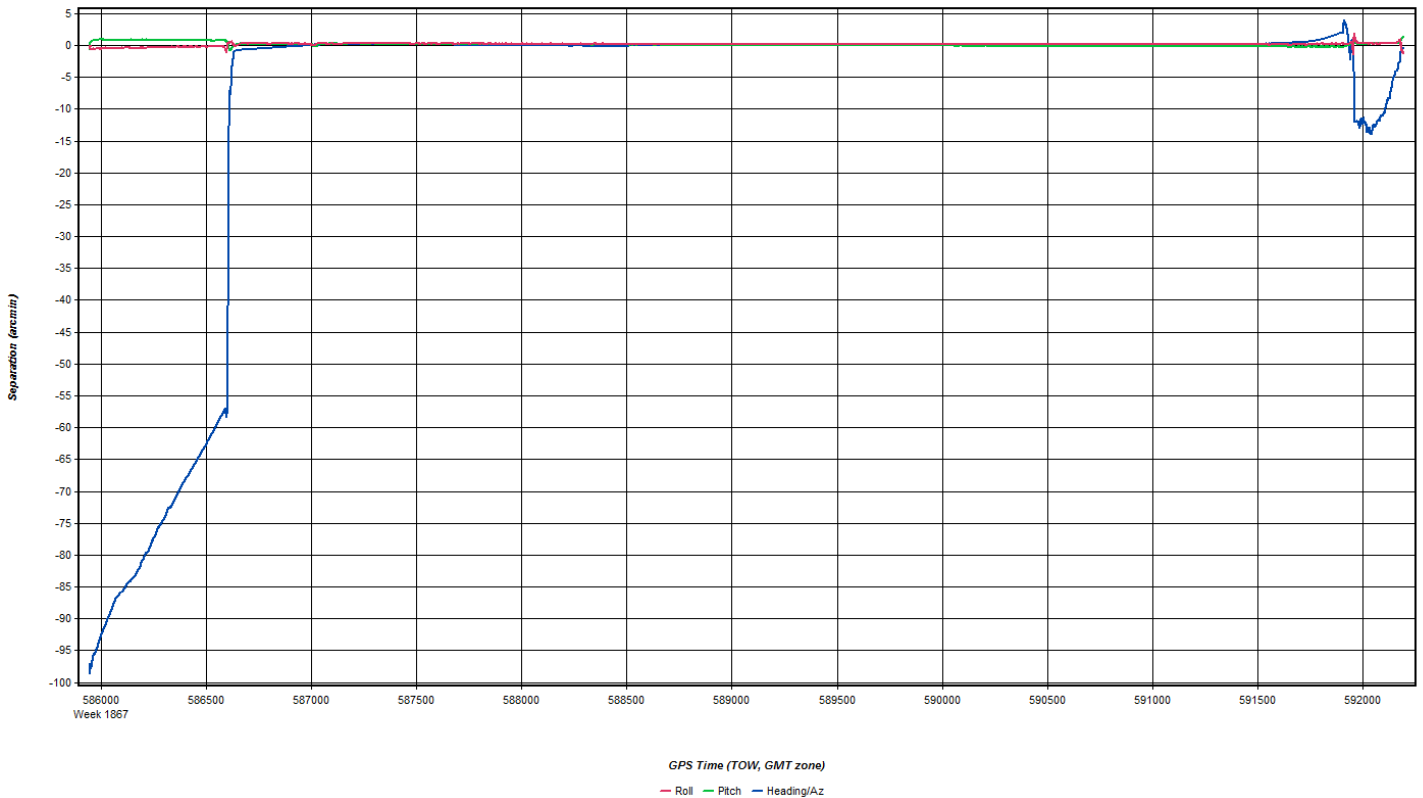












Coordinate/Antenna Settings

Master Remote

Base Station
 2: VTD7 Name: VTD7 Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\20151024_184037

Coordinates
 Latitude: North 44 23 52.31066 Compute from PPP
 Longitude: West 72 01 32.39267 Enter Grid Values
 Ellipsoidal height: 166.528 m Enter MSL Height
 Datum: NAD83(2011) 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

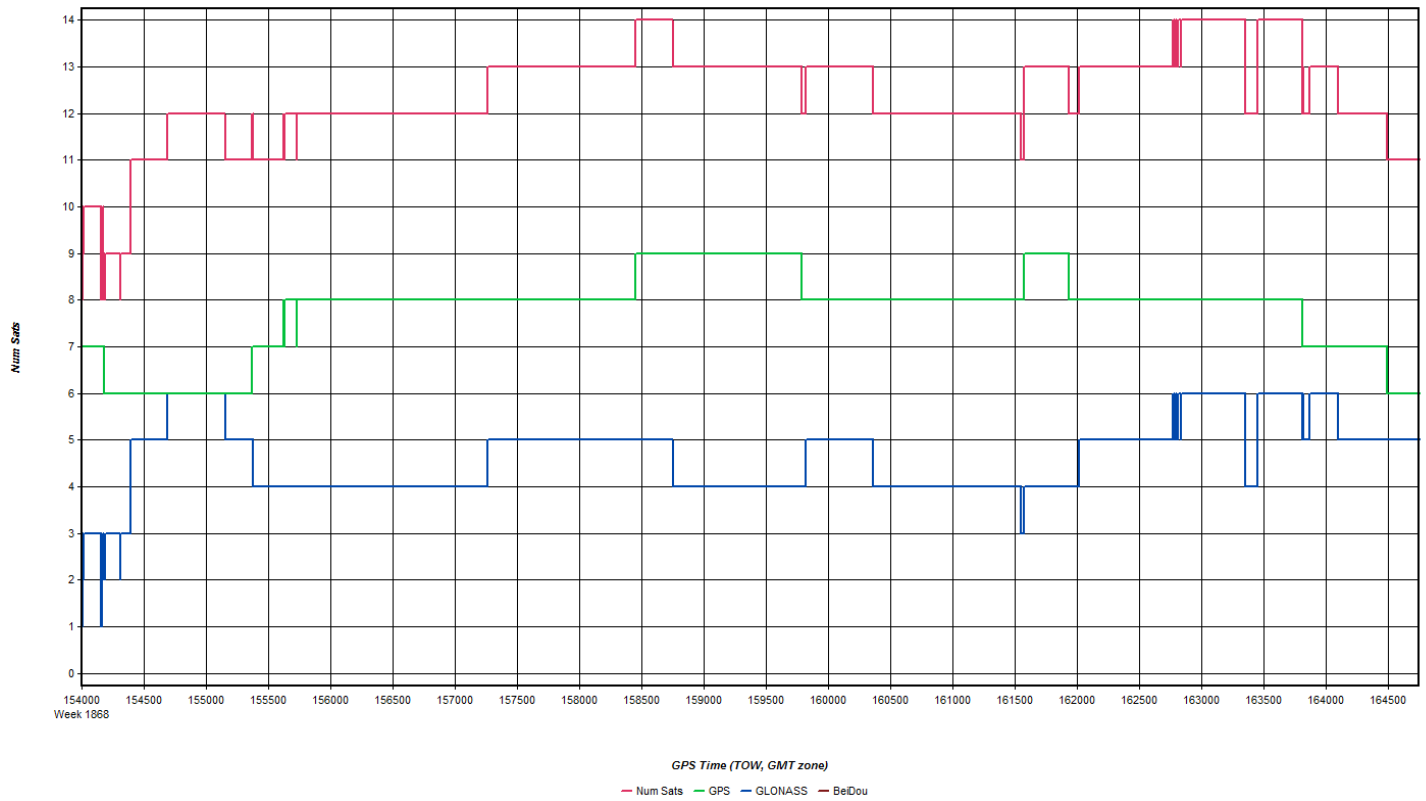
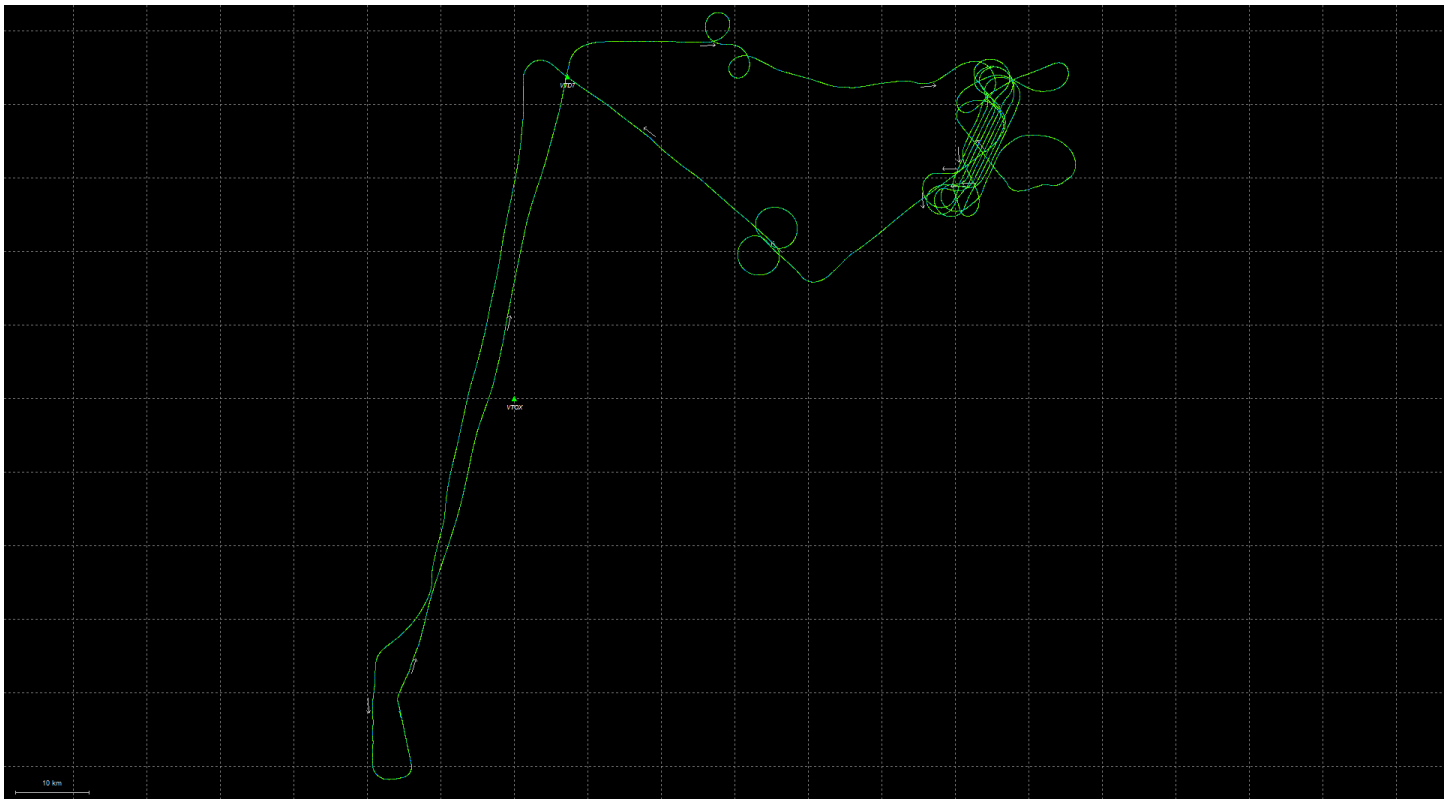
Base Station
 1: VTOX Name: VTOX Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\20151024_184037

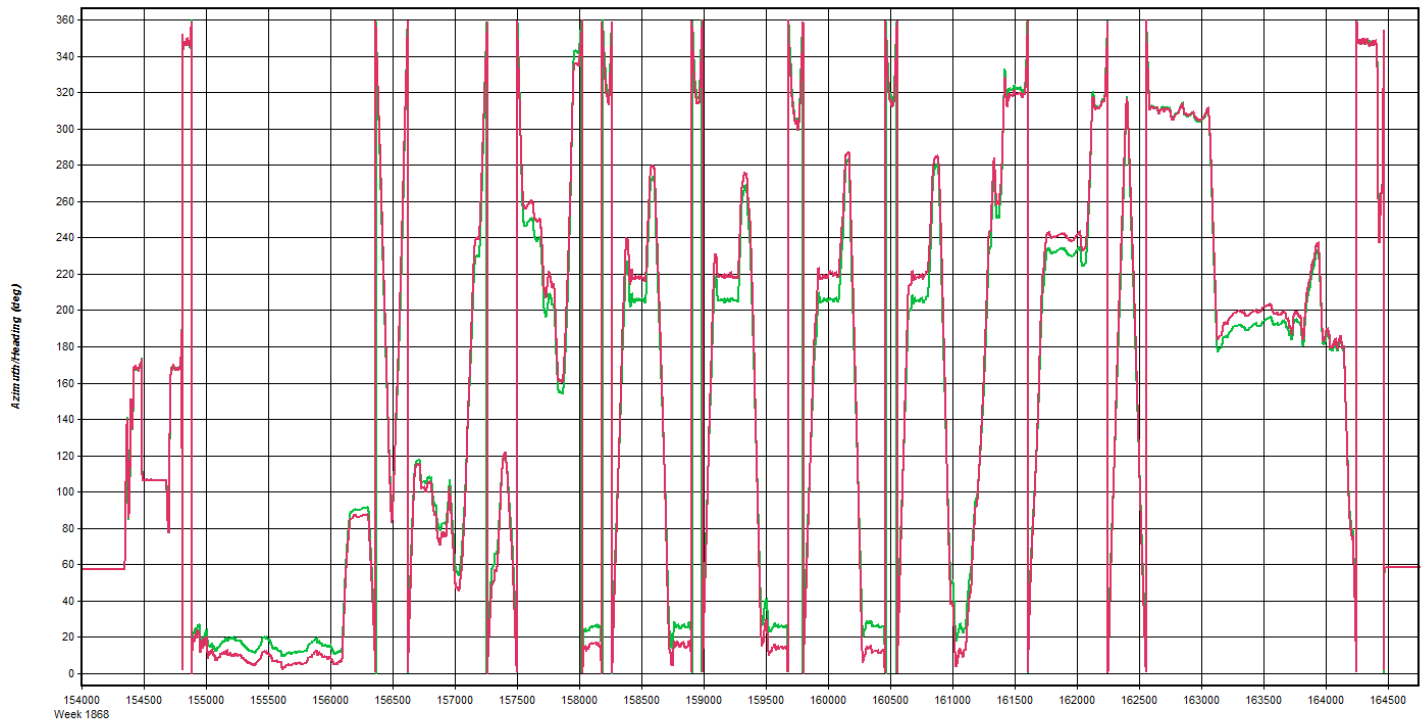
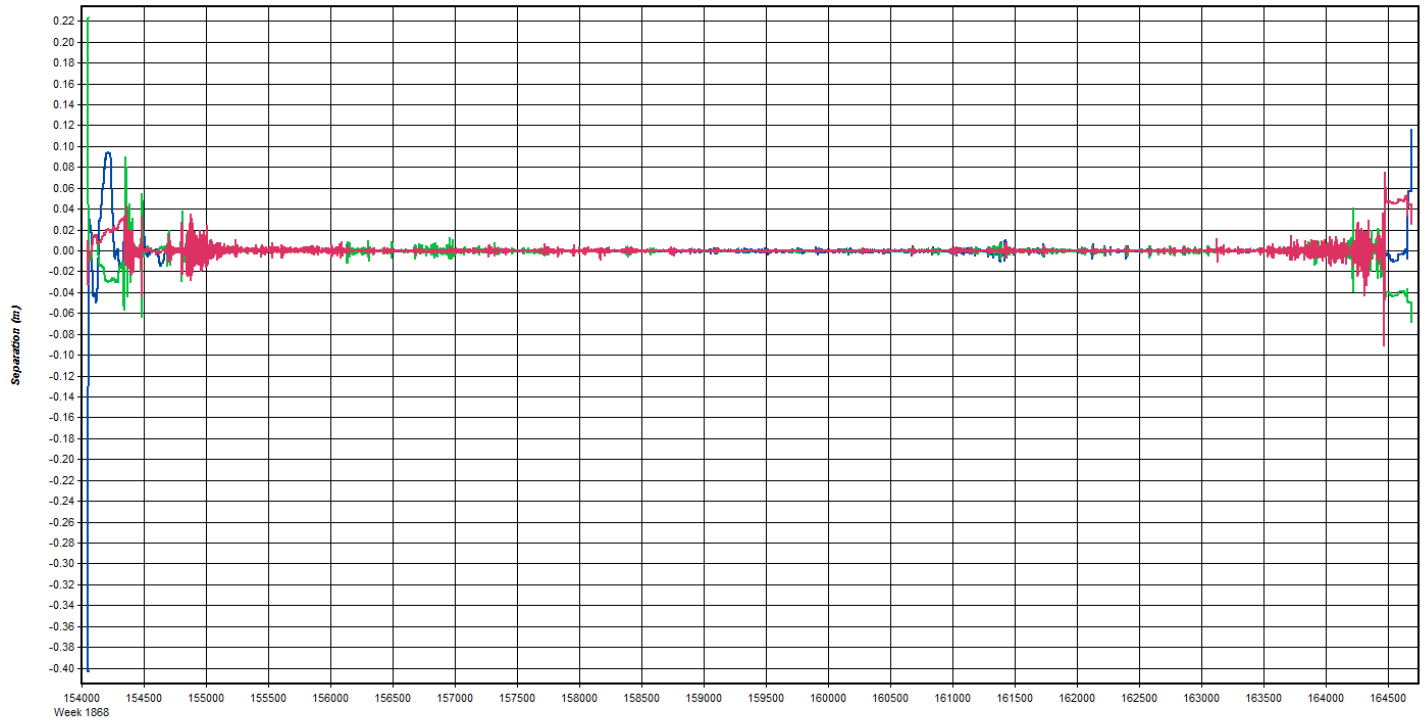
Coordinates
 Latitude: North 44 00 28.16564 Compute from PPP
 Longitude: West 72 06 51.60957 Enter Grid Values
 Ellipsoidal height: 126.405 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

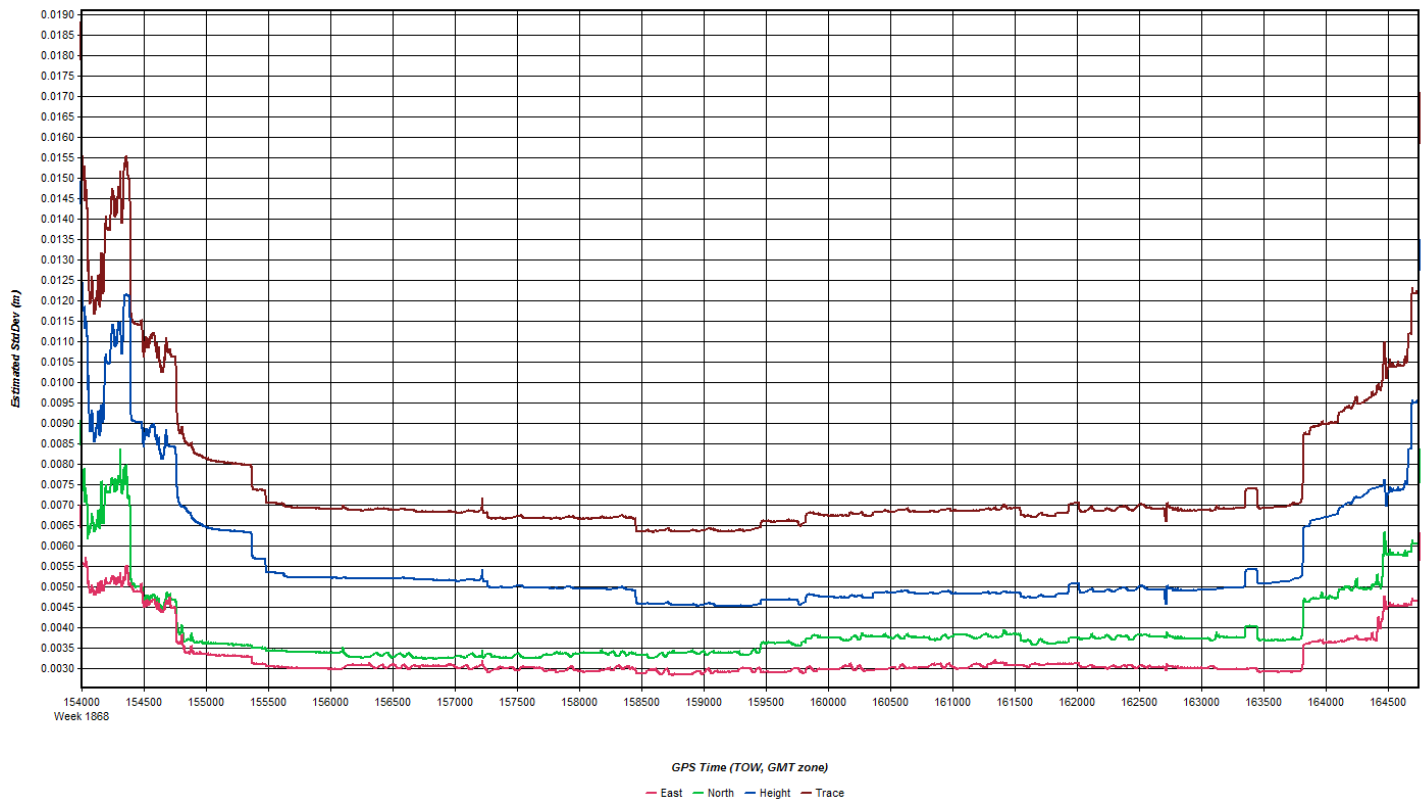
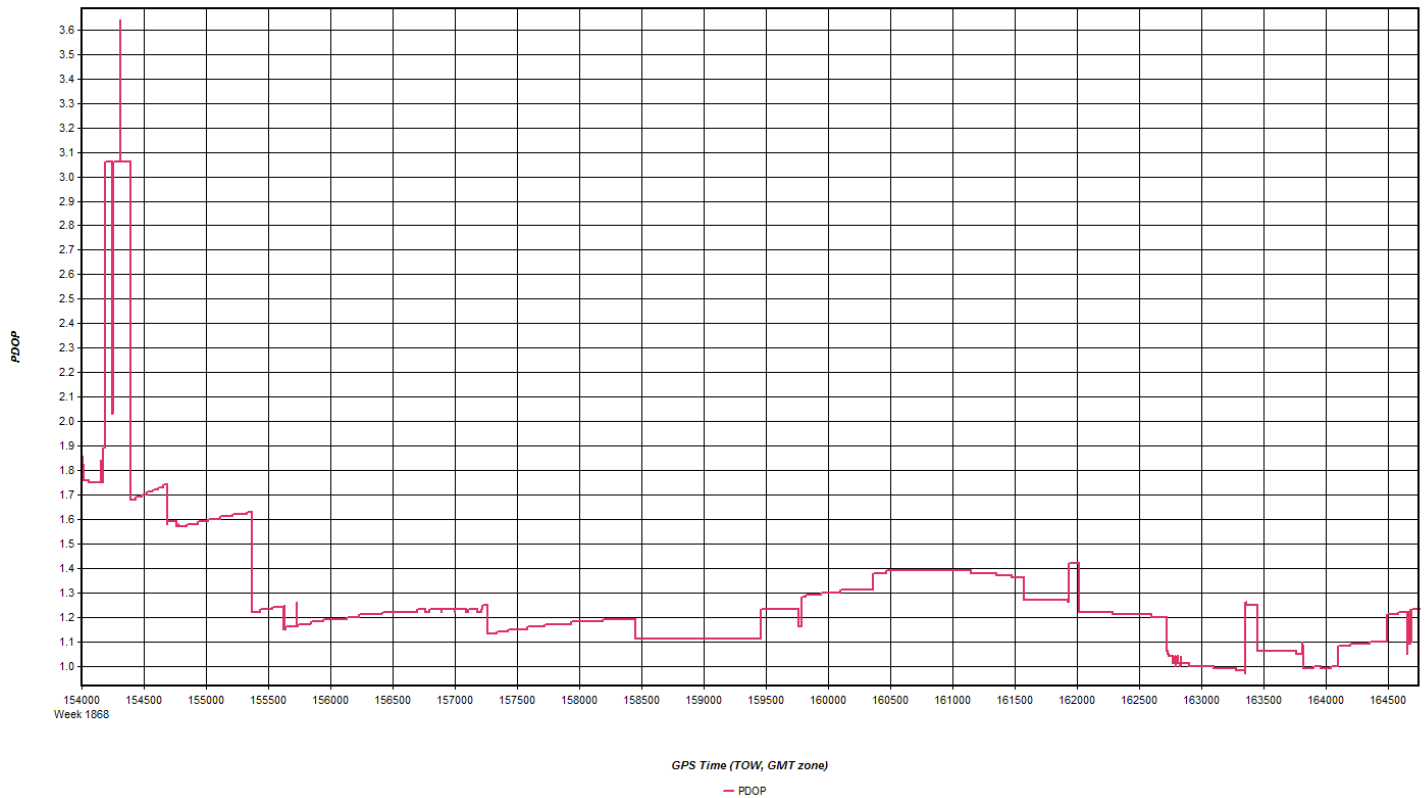
Antenna Height
 From station file: TRM55971.00, NONE View STA File
 Antenna profile: TRM55971.00 Info
 Measured height: 0.000 m
 ARP to L1 offset: 0.067 m
 Applied height: 0.067 m
 Measured to:
 ARP
 L1 Phase Centre
 Compute From Slant

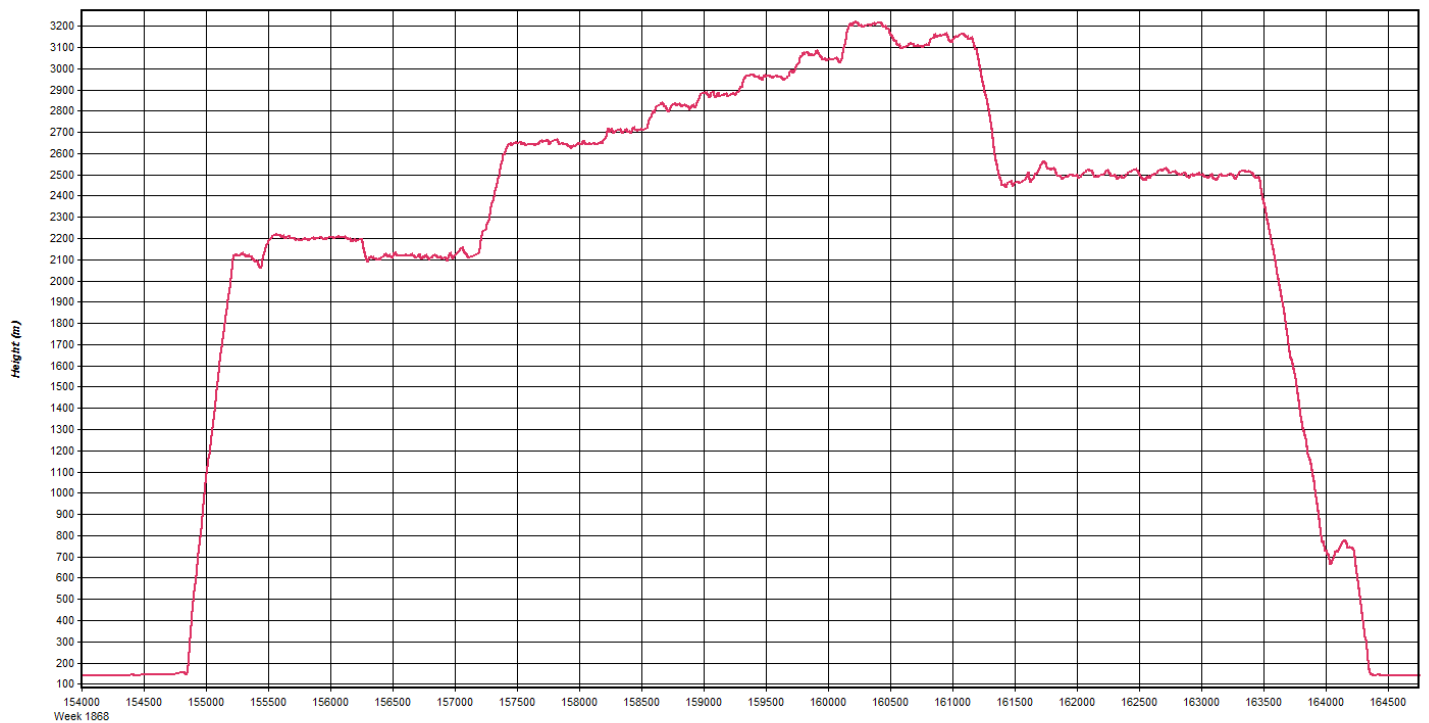
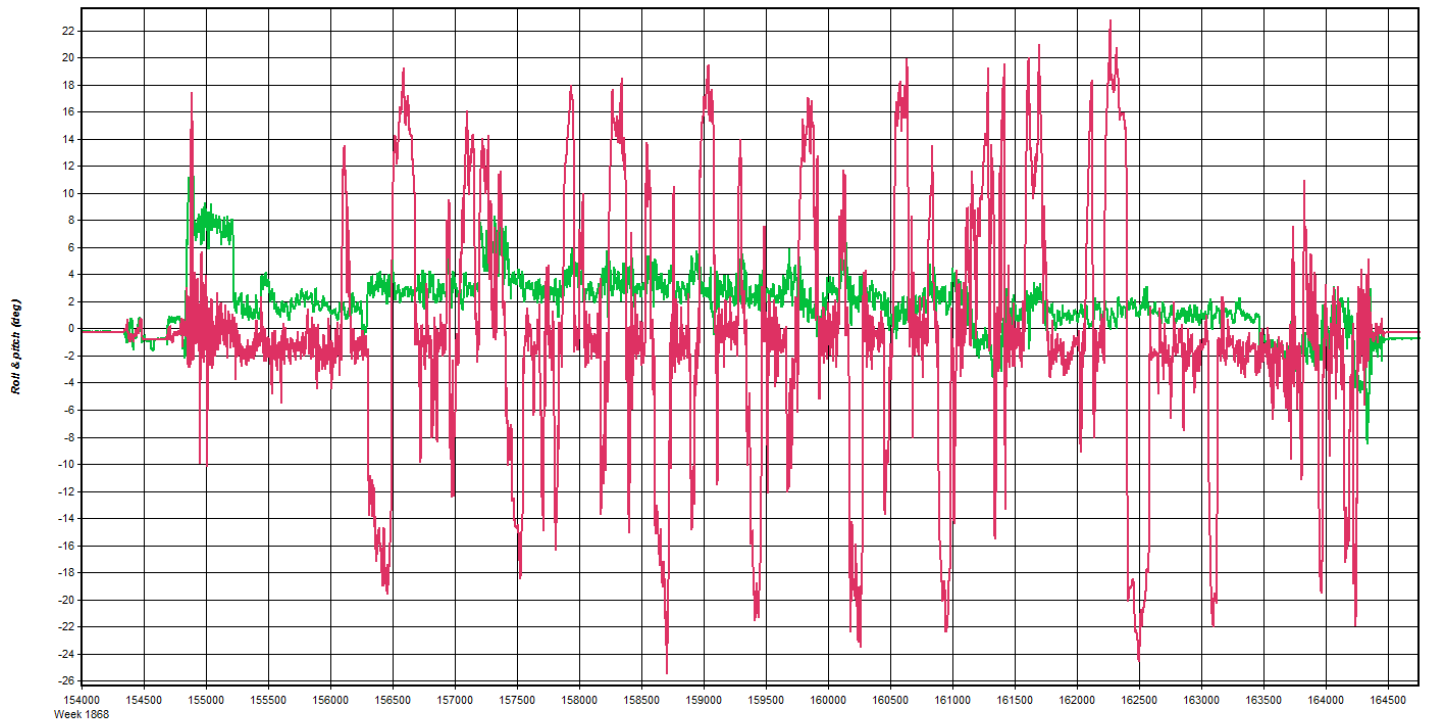
OK Cancel

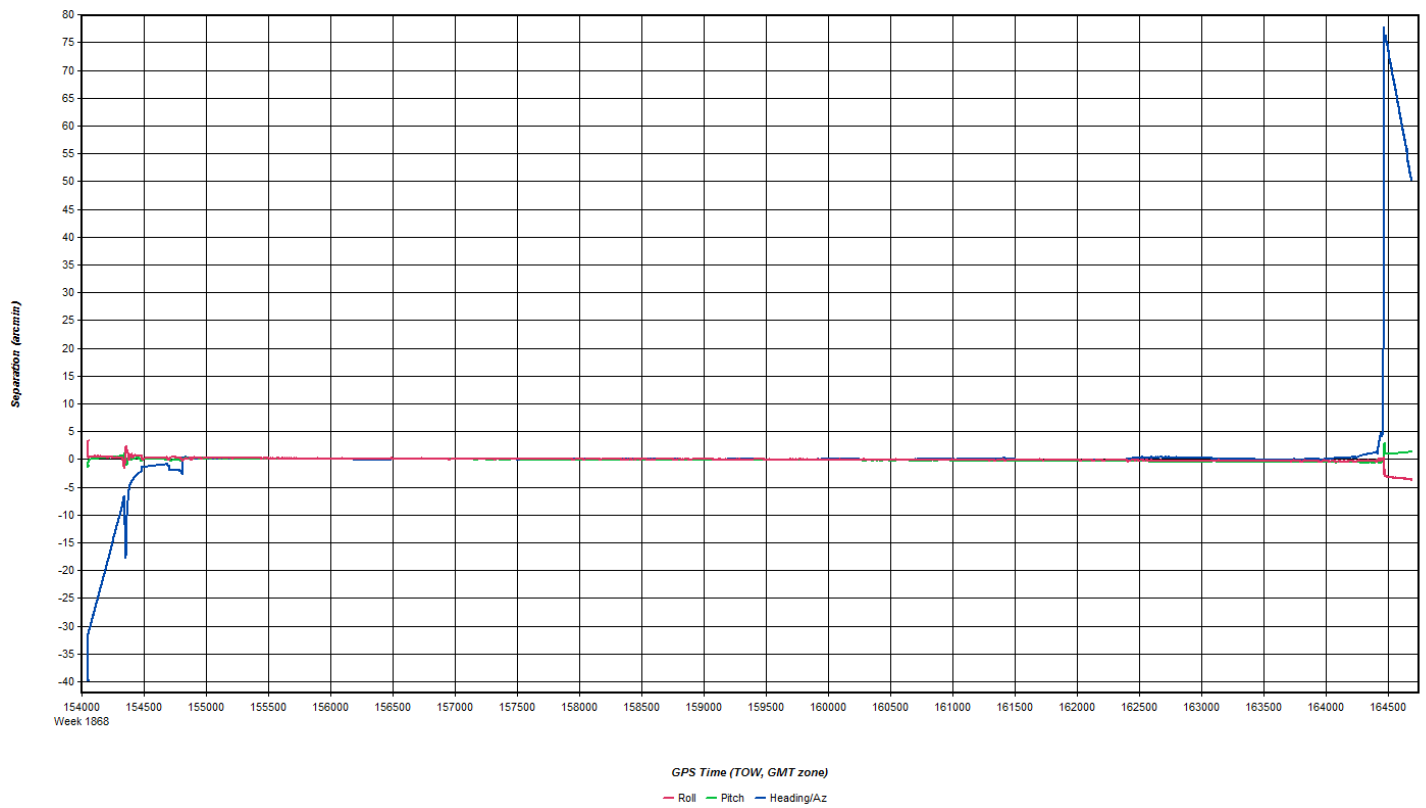
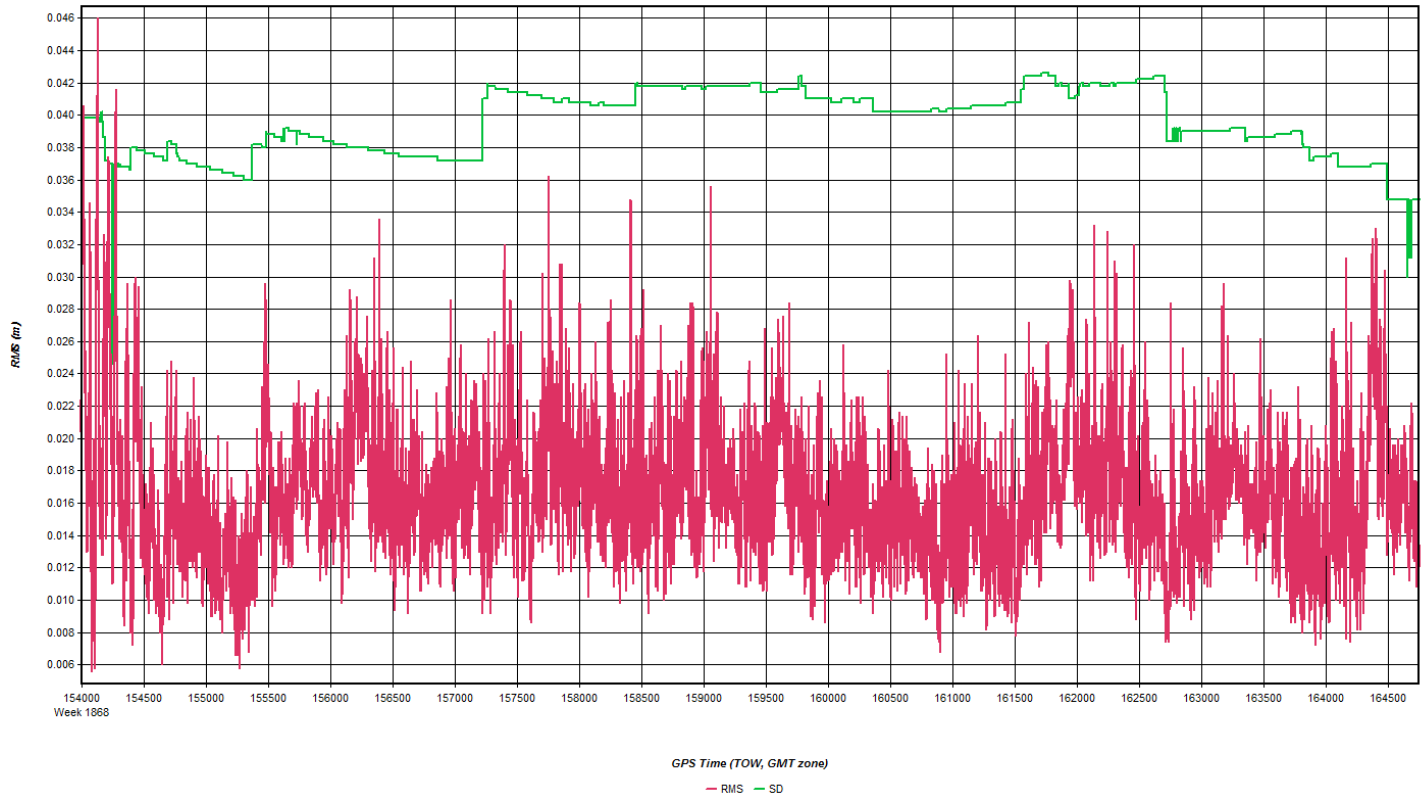
Oct 26, 2015-A (N22GE, SN7178)

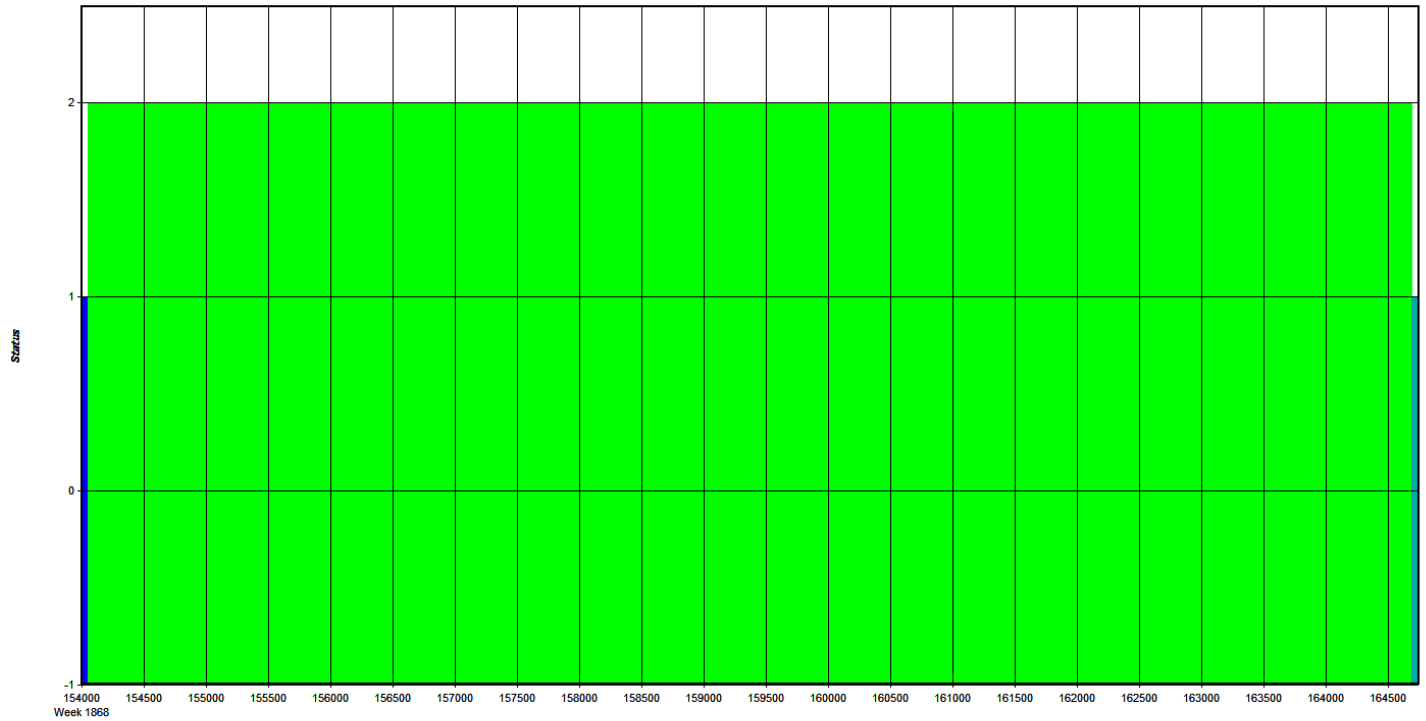












GPS Time (TOW, GMT zone)
 - Float - Forward Fixed - Reverse Fixed - Fixed (2 or more)

Coordinate/Antenna Settings

Master Remote

Base Station
 1: VTOX Name: VTOX Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\20151026_184355

Coordinates
 Latitude: North 44 00 28.16564 Compute from PPP
 Longitude: West 72 06 51.60957 Enter Grid Values
 Ellipsoidal height: 126.405 m Enter MSL Height
 Datum: NAD83(2011) 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
 2: VTD7 Name: VTD7 Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\20151026_184355

Coordinates
 Latitude: North 44 23 52.31066 Compute from PPP
 Longitude: West 72 01 32.39267 Enter Grid Values
 Ellipsoidal height: 166.528 m Enter MSL Height
 Datum: NAD83(2011) 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

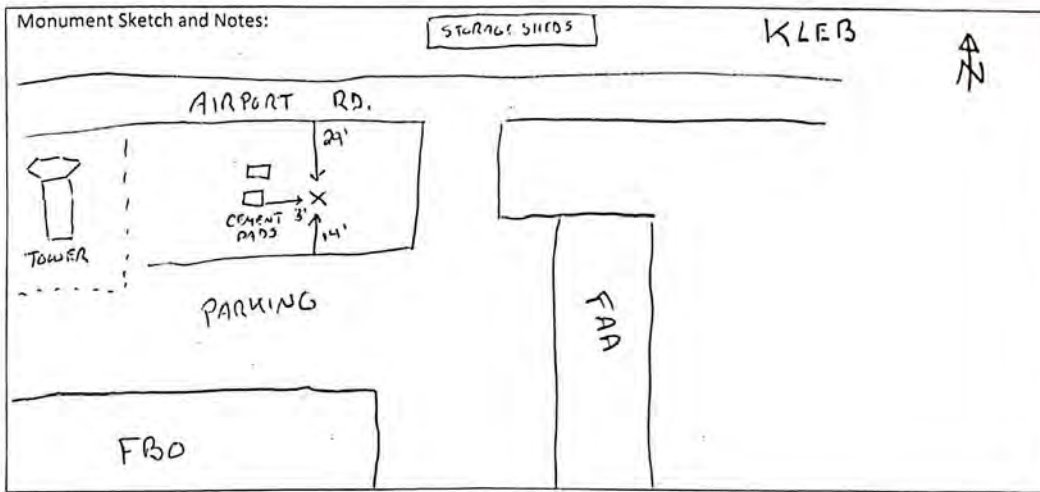
Base Station Log

GPS OBSERVATION LOG

Station ID	_____	Date	<u>10 / 26 / 2015</u>
Project Number	<u>26818</u>	Julian Date	<u>299</u>
Project Name	<u>USGS CT. RIVER</u>	Start Time	<u>16:37: GMT</u>
Rcvr. Type	<u>NovAtel DL-V3-L1L2</u>	Stop Time	<u>21:53: GMT</u>
Rcvr. S/N	<u>7-0141418</u>	Rcvr. File Name	<u>00082991.POC</u>
Antenna Type	<u>NovAtel</u>	Observer	<u>JIM SCHOWNE</u>
Antenna S/N	<u>NAE12110035</u>		
Mission:	<u>20151026-184355</u>		

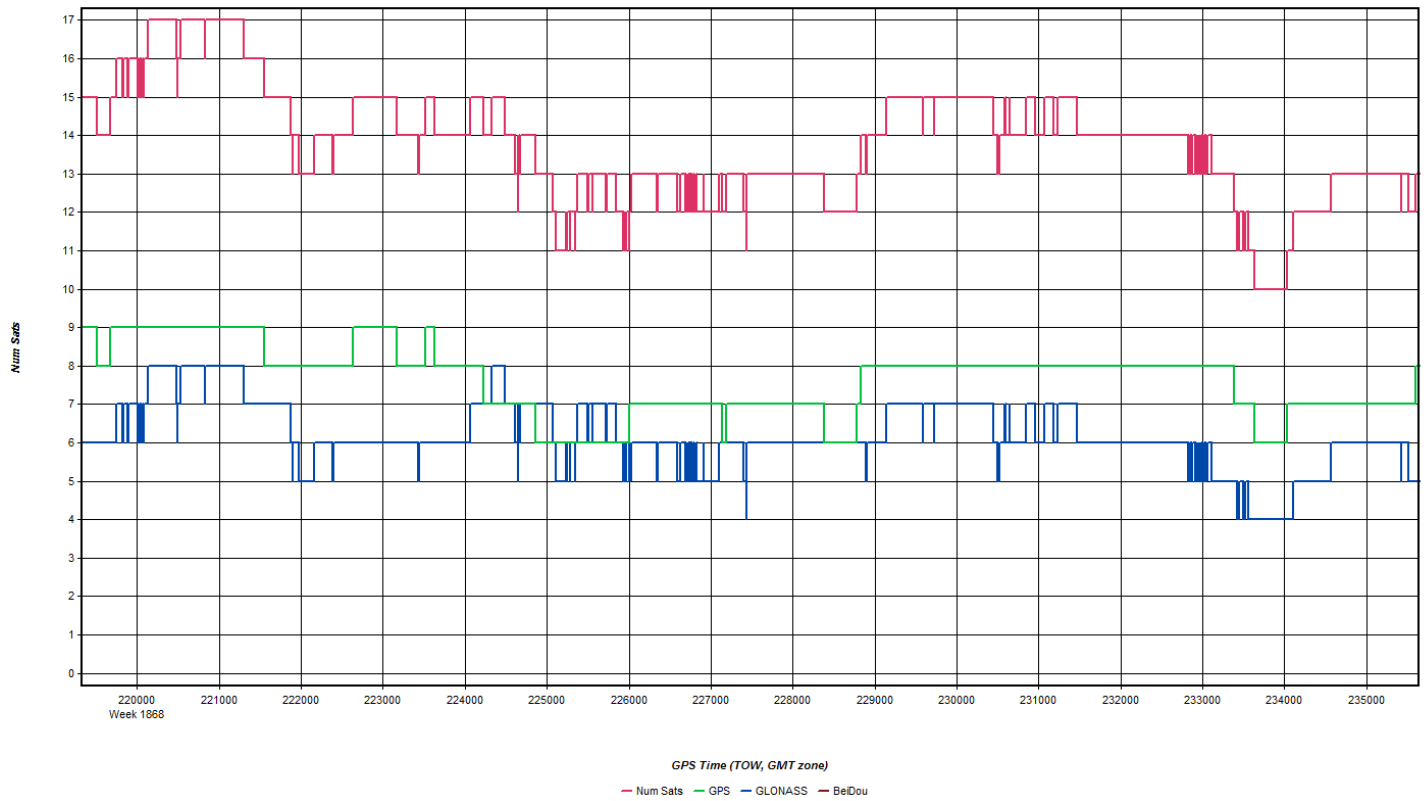
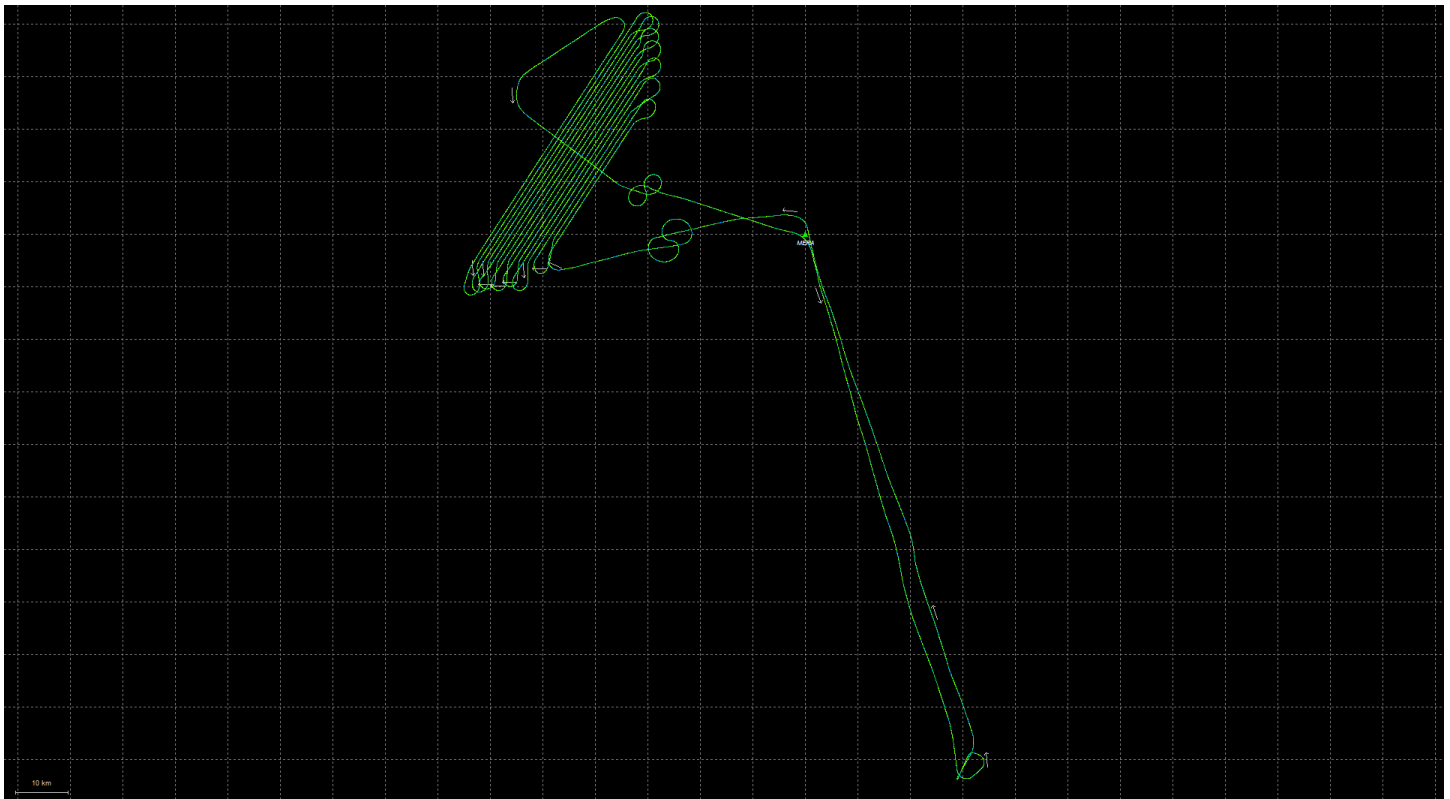
New or Existing Mon. New Existing
 Photo Taken: Yes No
 Monument Type: _____
 Spike PK Nail AM Washer
 Other _____

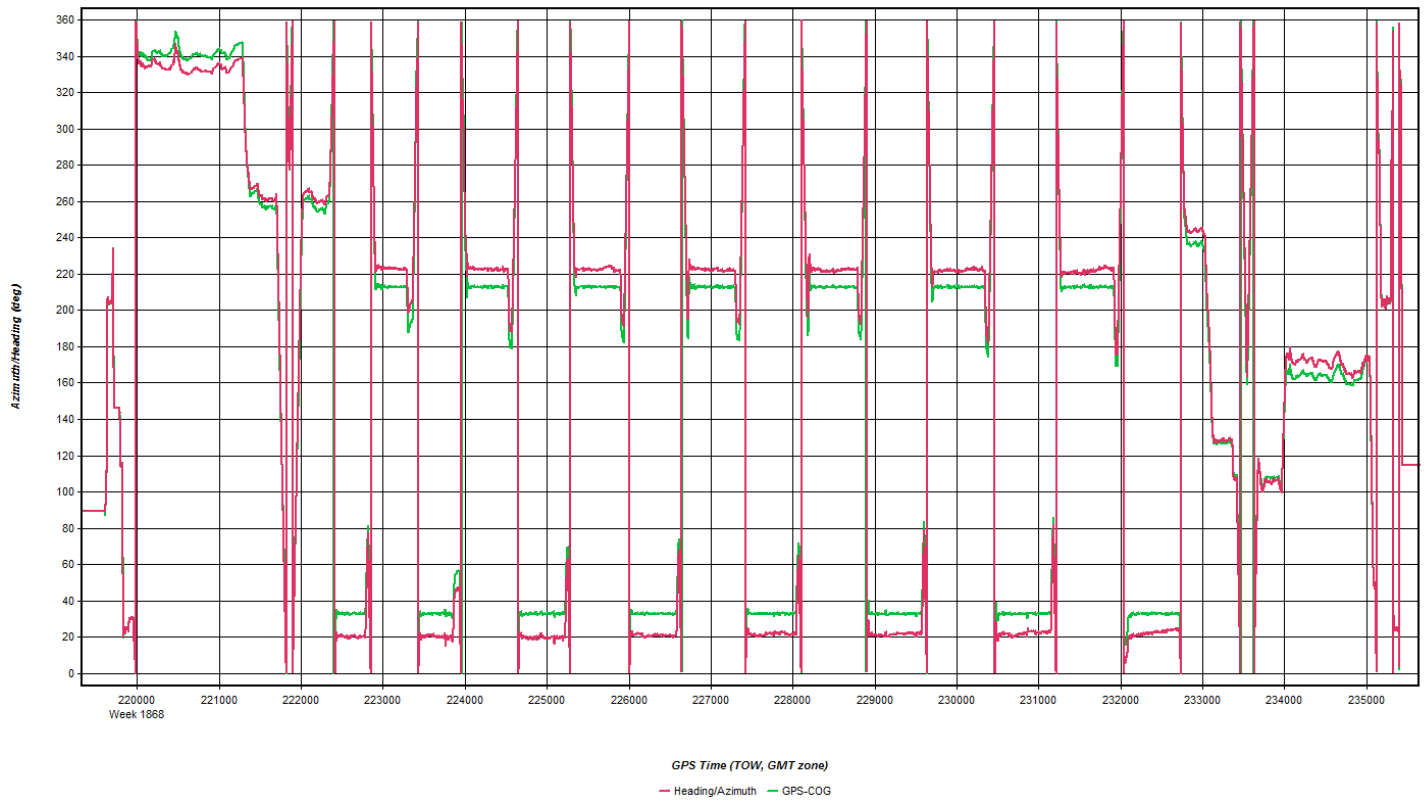
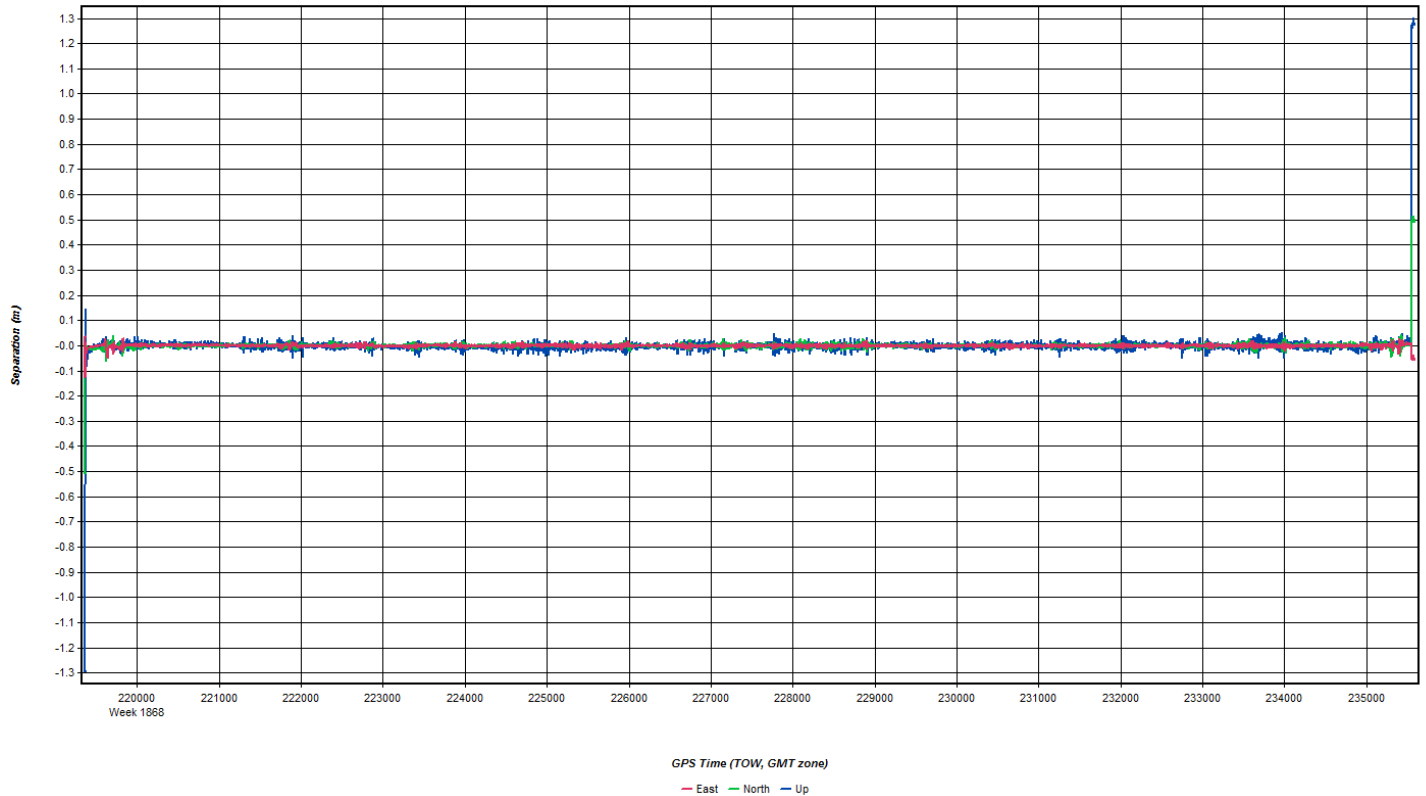
Height Readings:
 (Top of Monument to Bottom of Ground Plane)
 Start 2.0 M. _____ Ft.
 Stop 2.0 M. _____ Ft.
 Mean 2.0 M. _____ Ft.

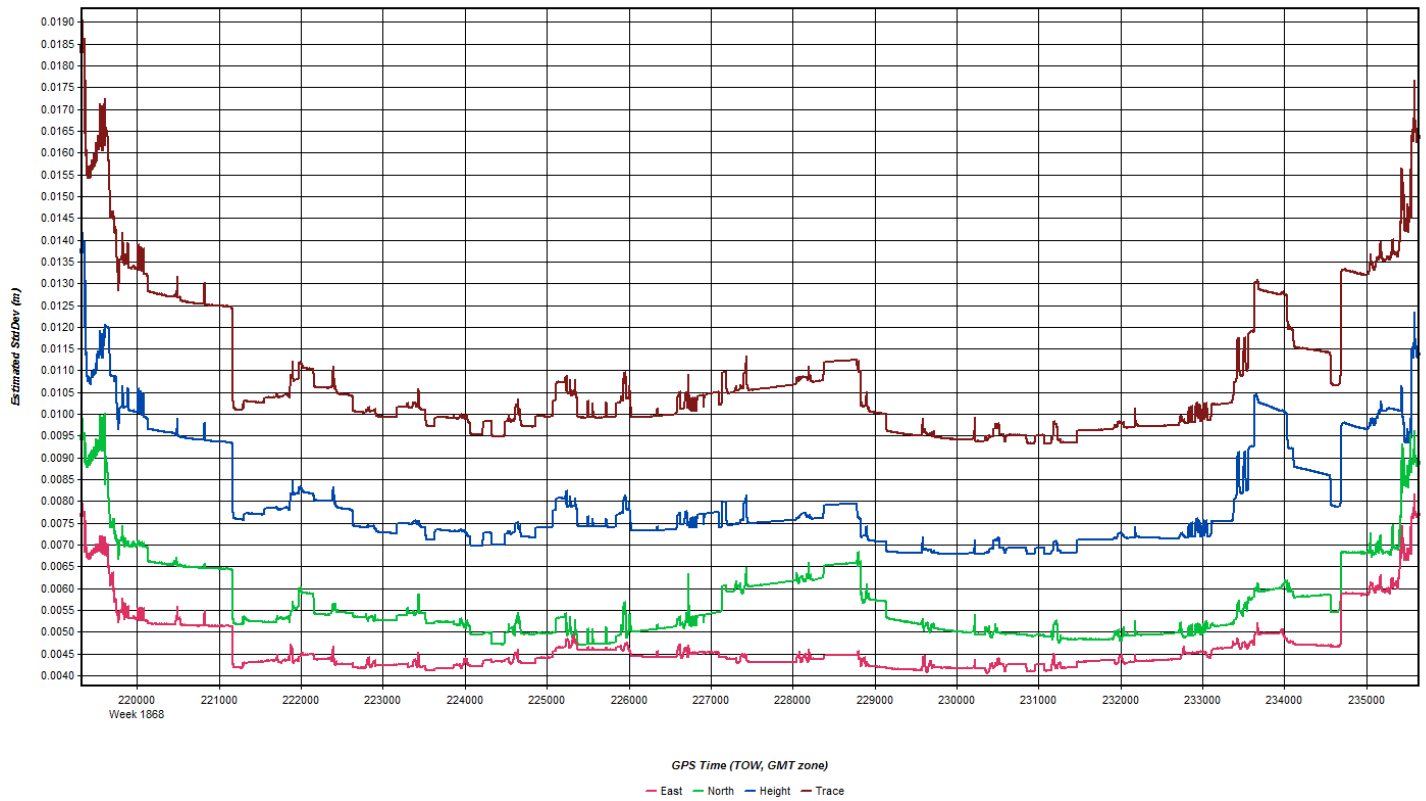
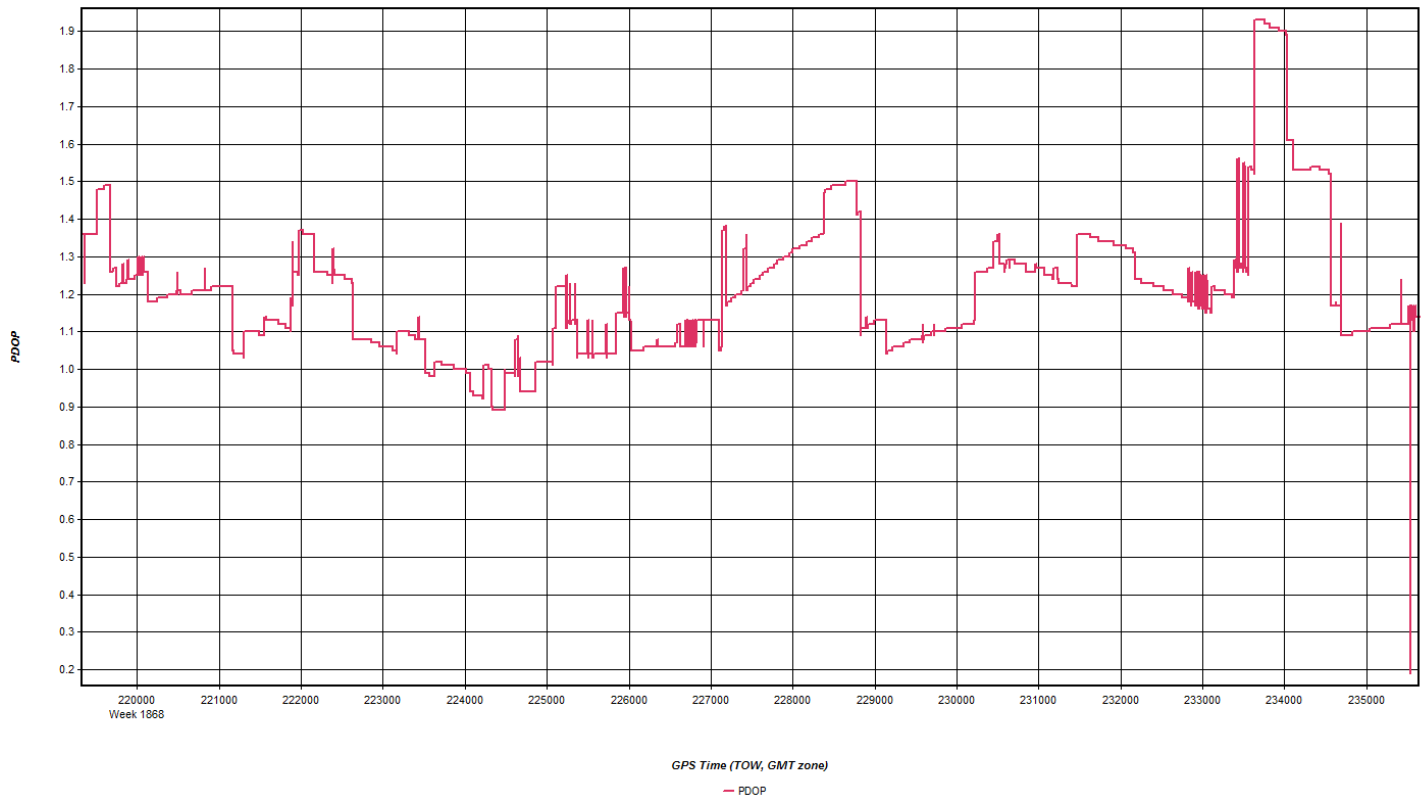


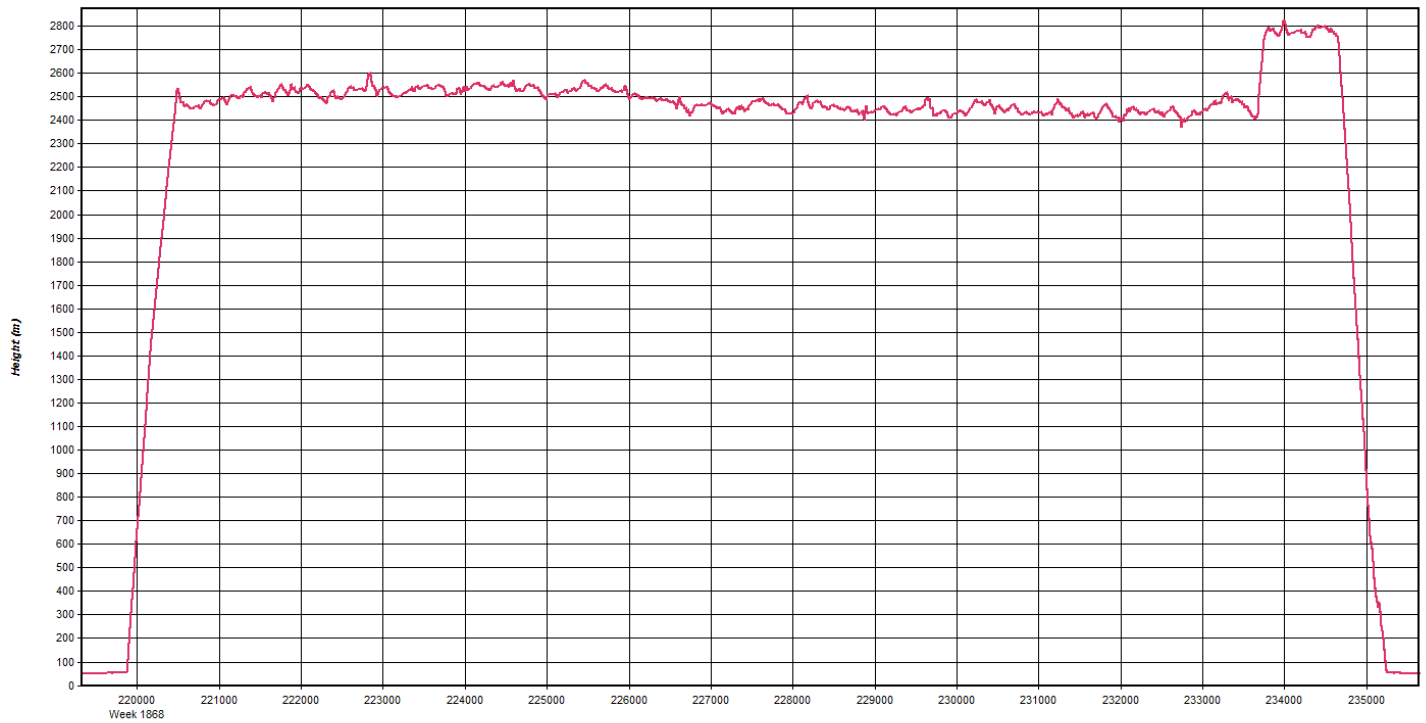
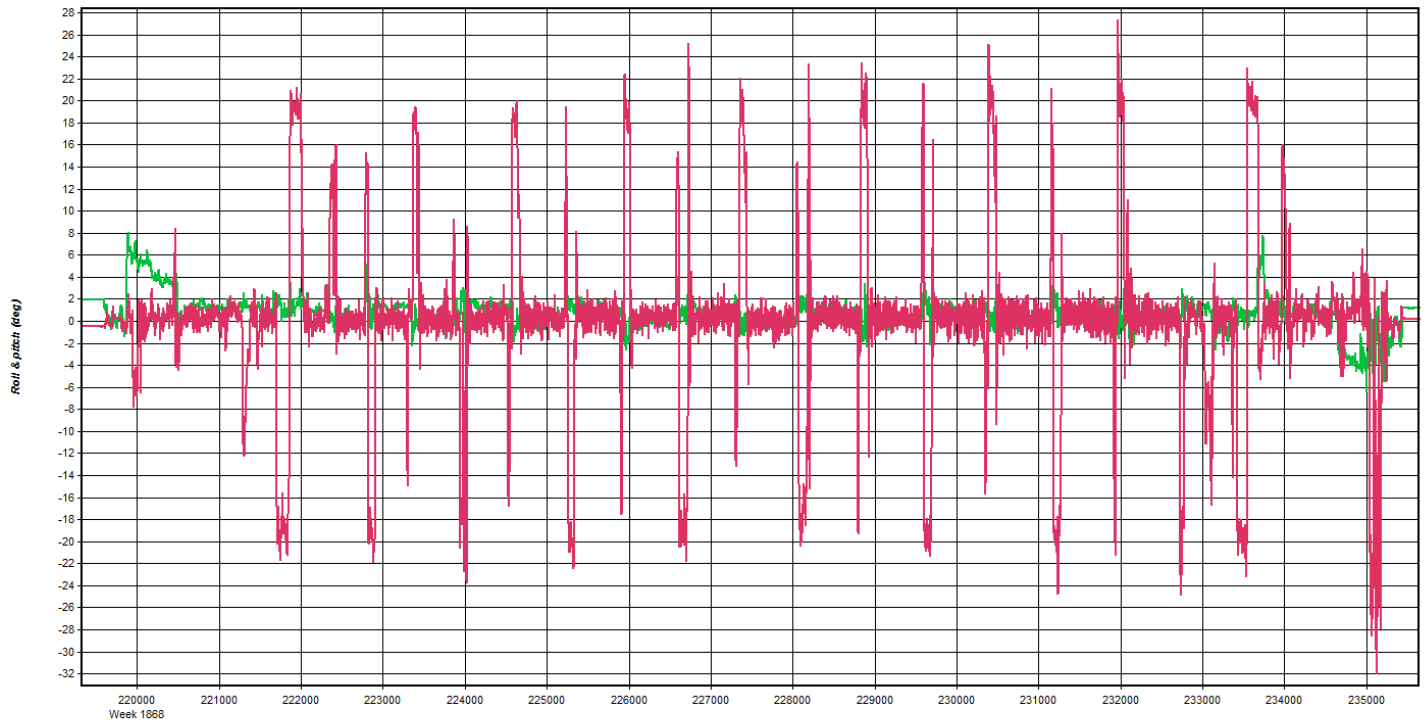
Scanned by CamScanner

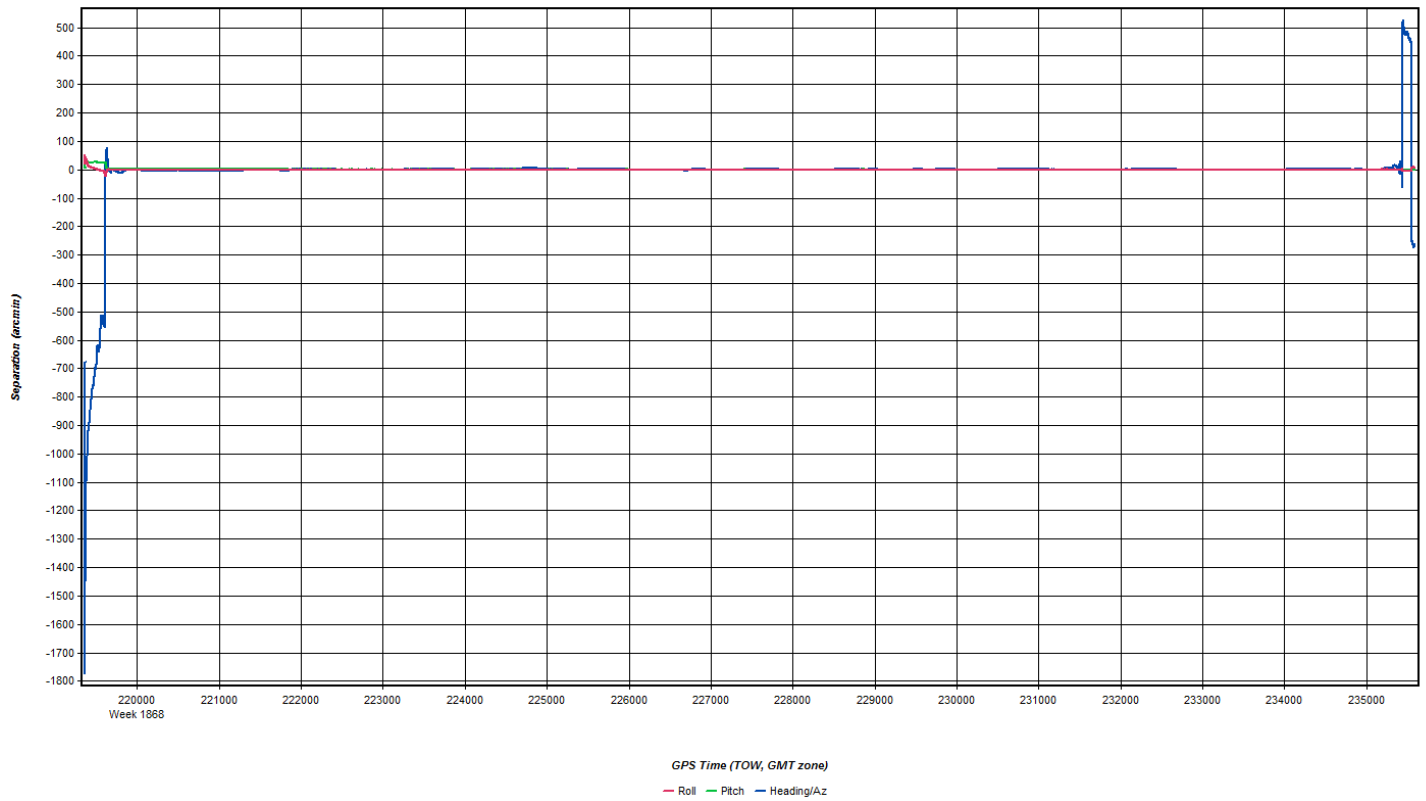
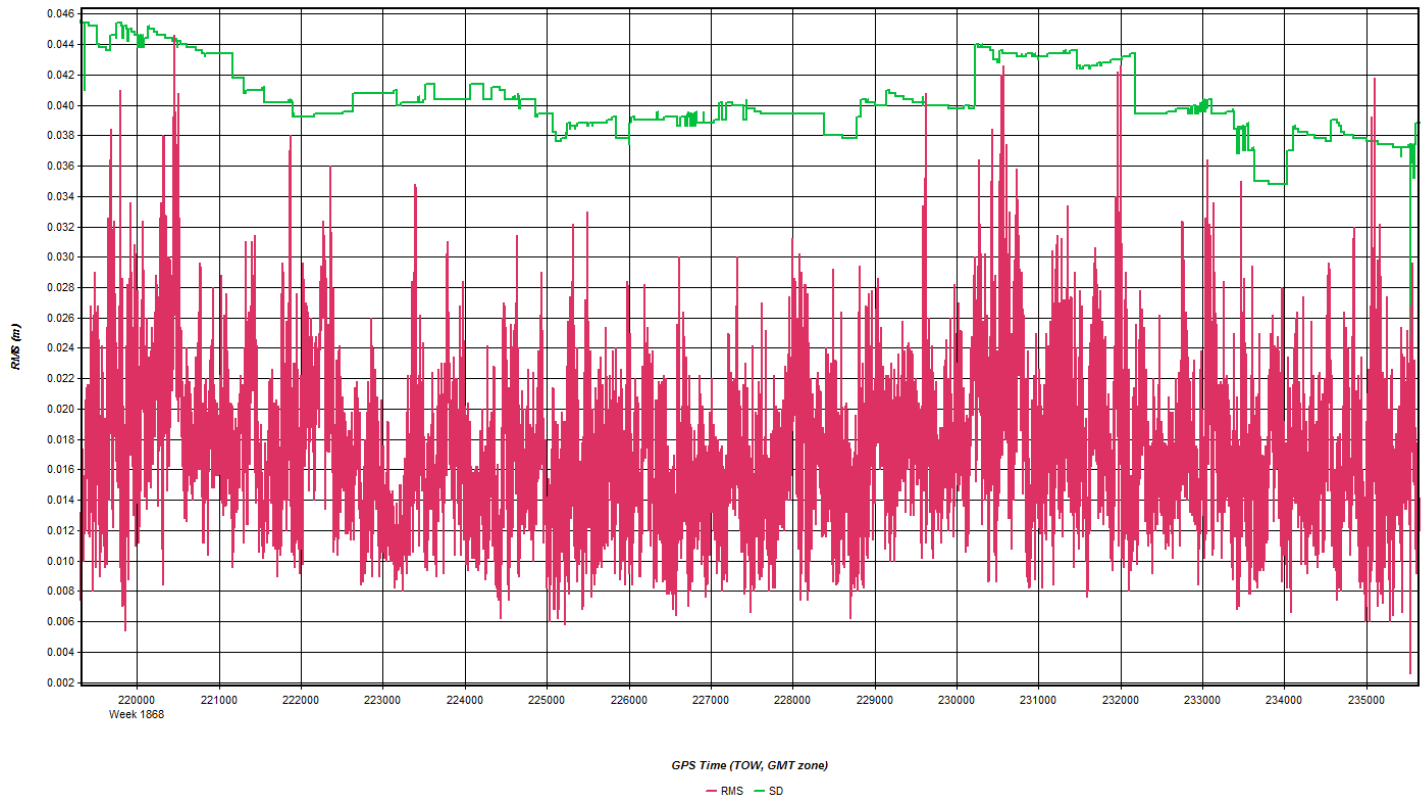
Oct 27, 2015-A (N6GR, SN7161)

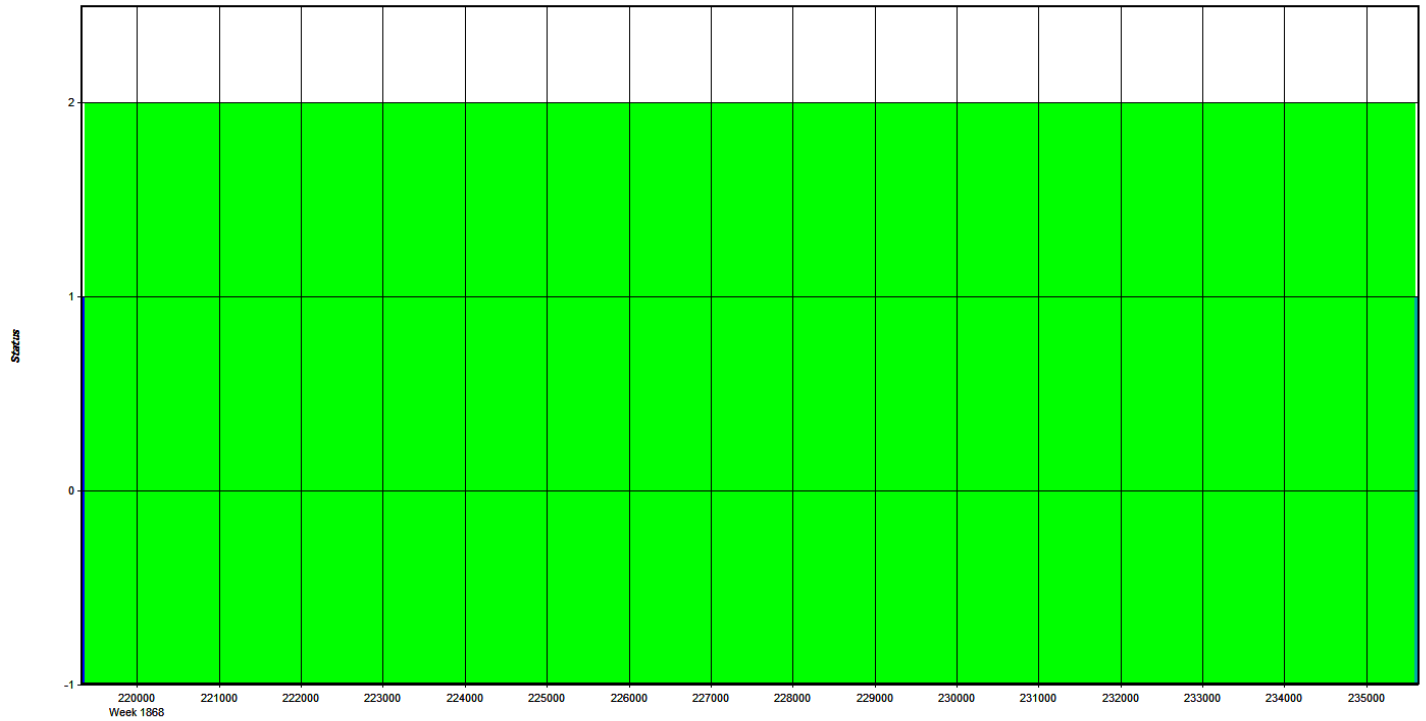












GPS Time (TOW, GMT zone)
 - Float - Forward Fixed - Reverse Fixed - Fixed (2 or more)

Coordinate/Antenna Settings

Master Remote

Base Station
 1: MERA Name: MERA Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\0UHA\20151027a\

Coordinates
 Latitude: North 44 58 25.33352 Compute from PPP
 Longitude: West 70 39 10.58376 Enter Grid Values
 Ellipsoidal height: 489.568 m Enter MSL Height
 Datum: NAD83(2011) 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

20151027a-Flt1

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LIDAR MISSION RECORD SHEET

Project Name: USGS CTRNER RIBBING, NH
 Project Number: 26818
 Flight Plan File: ZL016 - P174039 - 1300h - 507KVA - 160 Kts, 50'

Pilot: J. BULLIN (KIA)
 Tech: D. BULLIN
 Aircraft: NGR

Date Flown: 10/27/2015
 Takeoff Time: 13:05 Z
 Landing Time: 14:27 Z

From/To: 000 → 040
 LDAR Unit #: sin 7161
 HD #: 017

IPAS File Name: ZULSERVER_115045
 From/To: 000 → 040
 LDAR Unit #: sin 7161
 HD #: 017

FOV (degrees): 40 %
 Scan Rate (Hz): 534
 Pulse Rate (Hz): 15170
 Ground Speed (kts): 160

SP1A7 %: 100
 MP1A6 %: 100

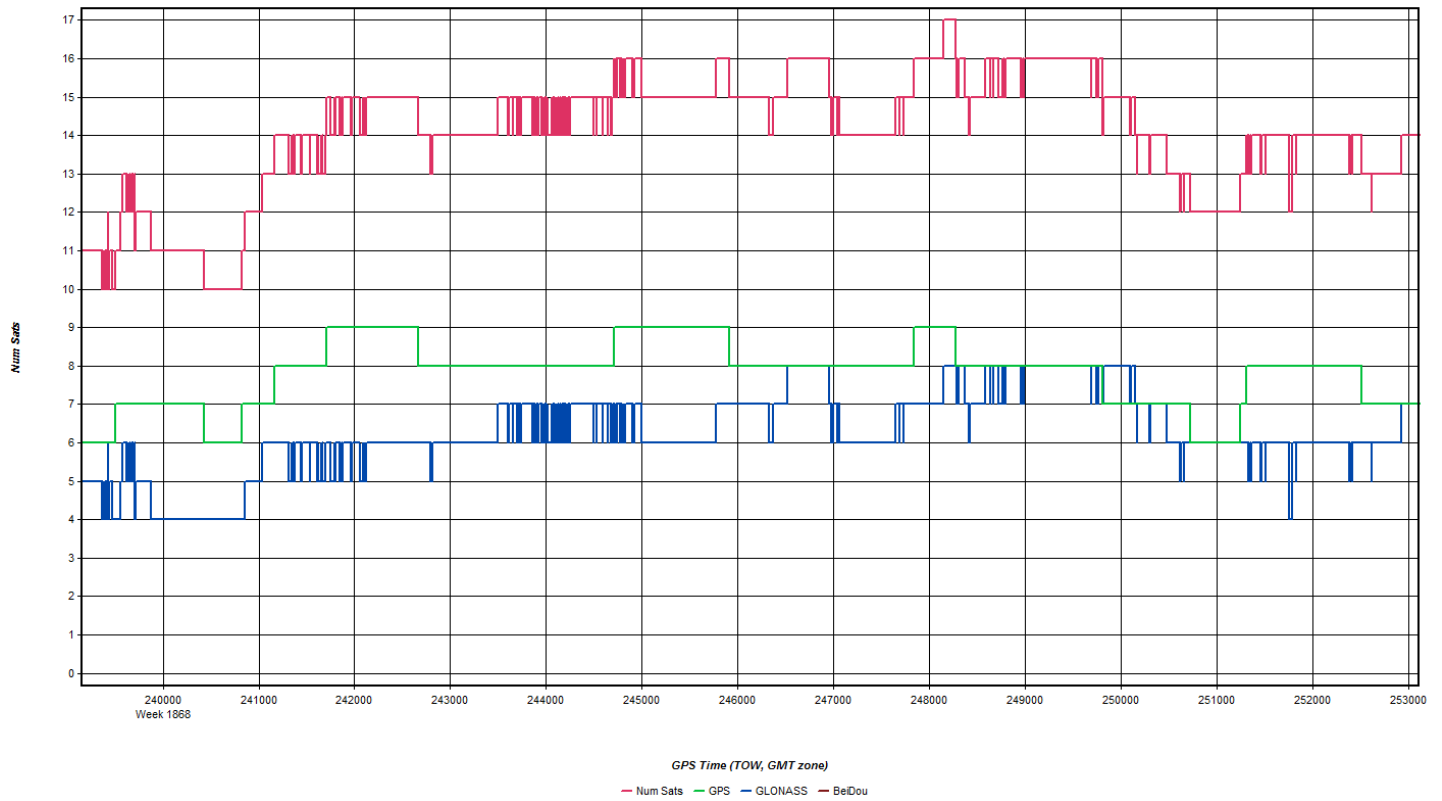
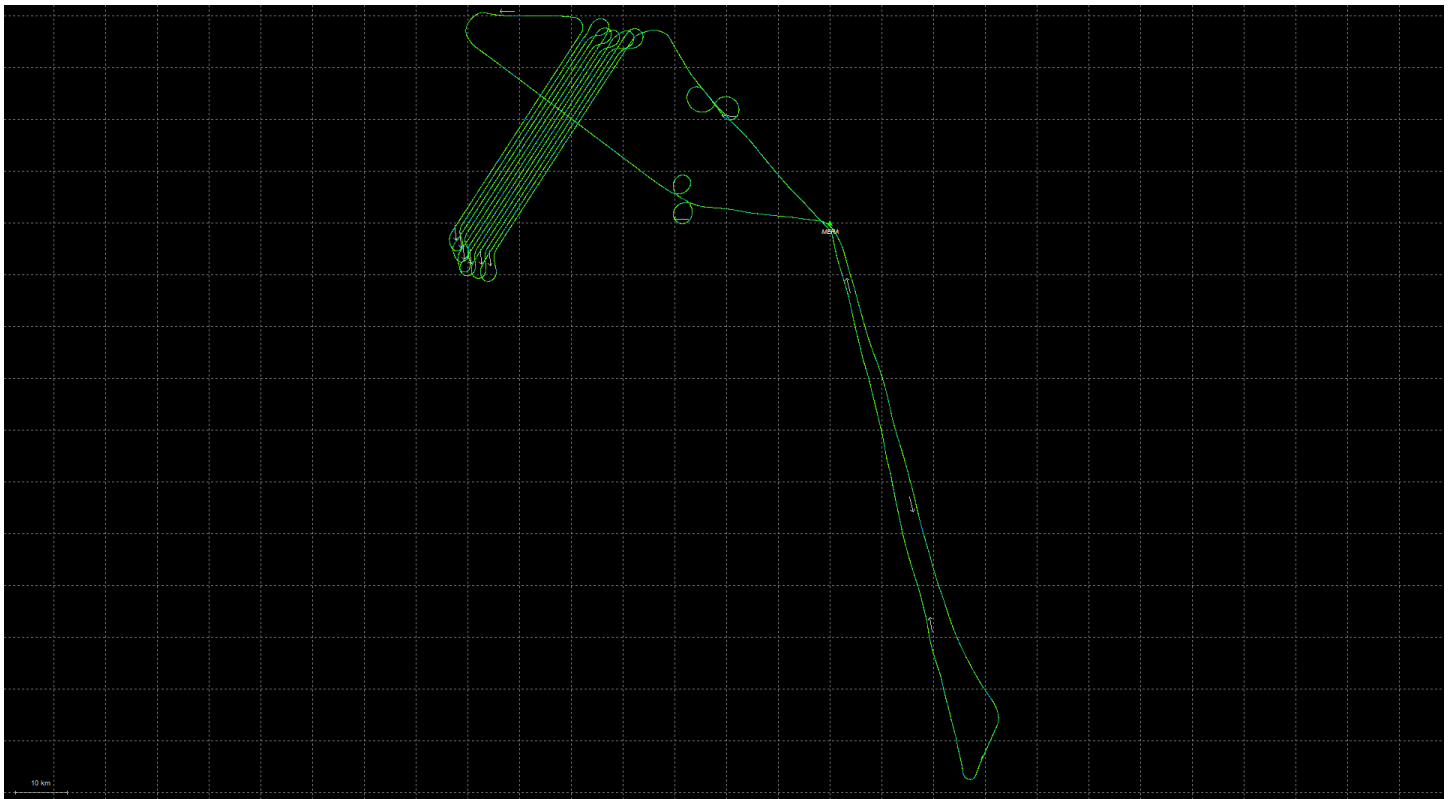
Altitude AGL (ft): 6000
 Range Gate (m): 1300

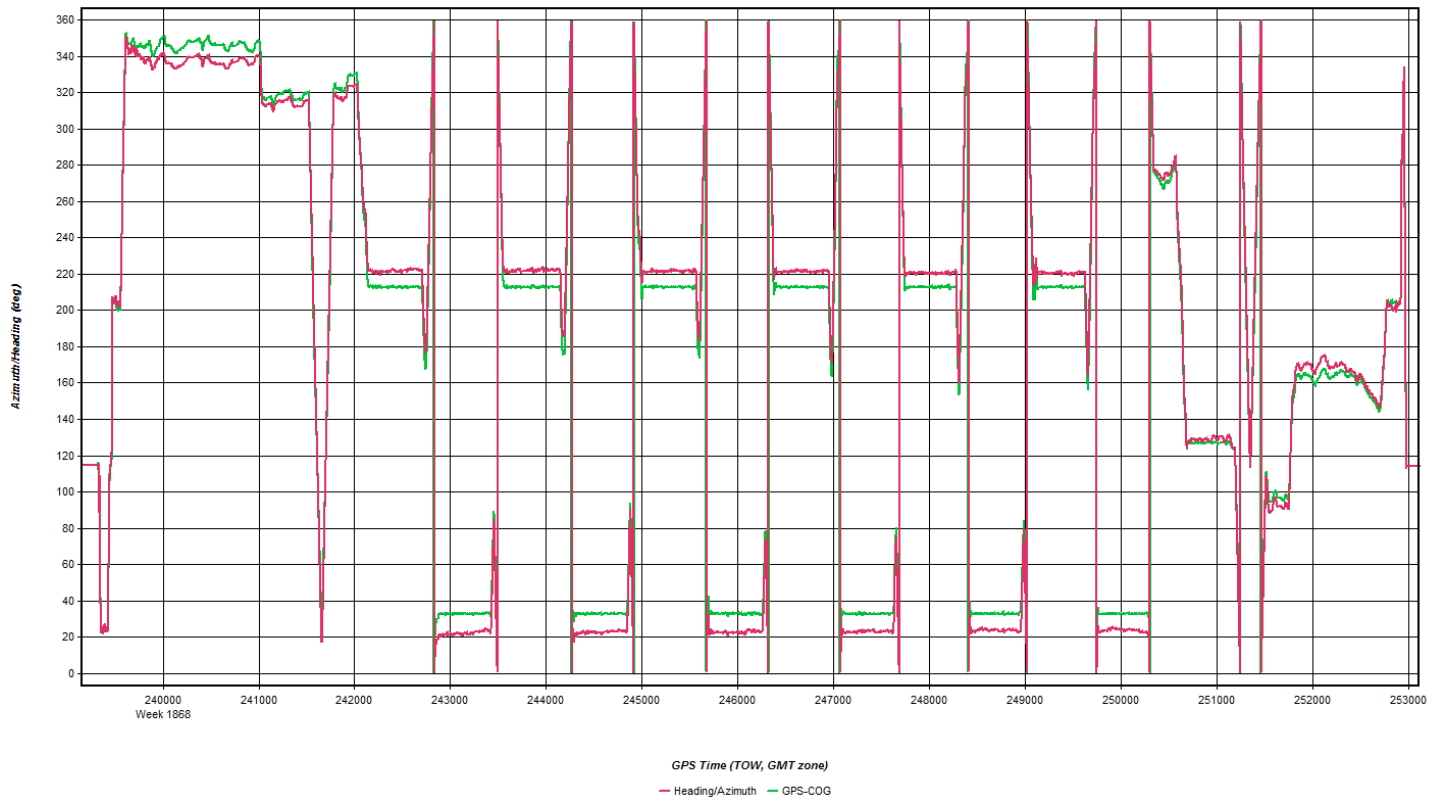
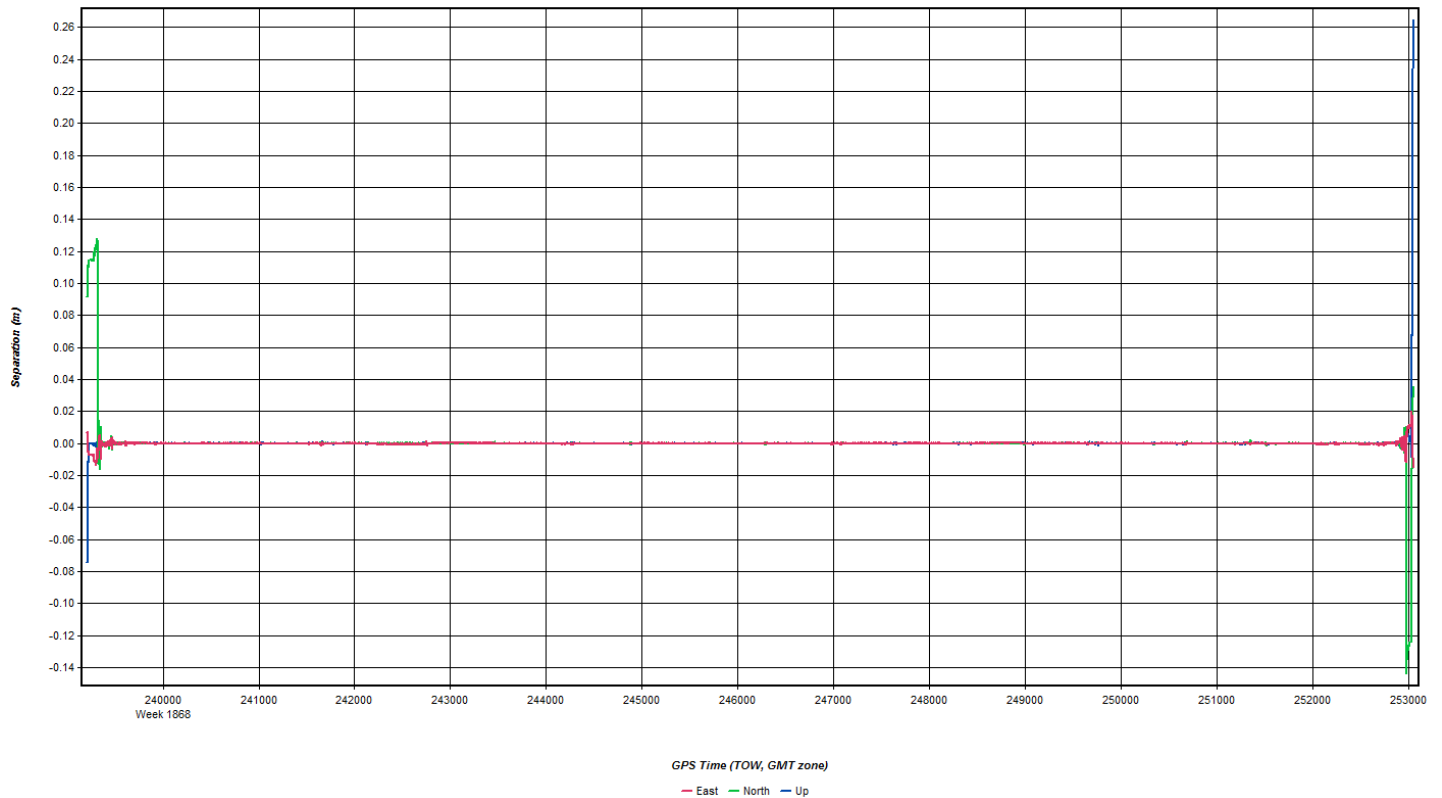
FCMS File Name: 20151027_114934
 GPS Base Location(s): CTRS 016
 Static or Flyover?: FLYOVER
 Laser On Time & Off Times: 13:00 Z 14:27 Z

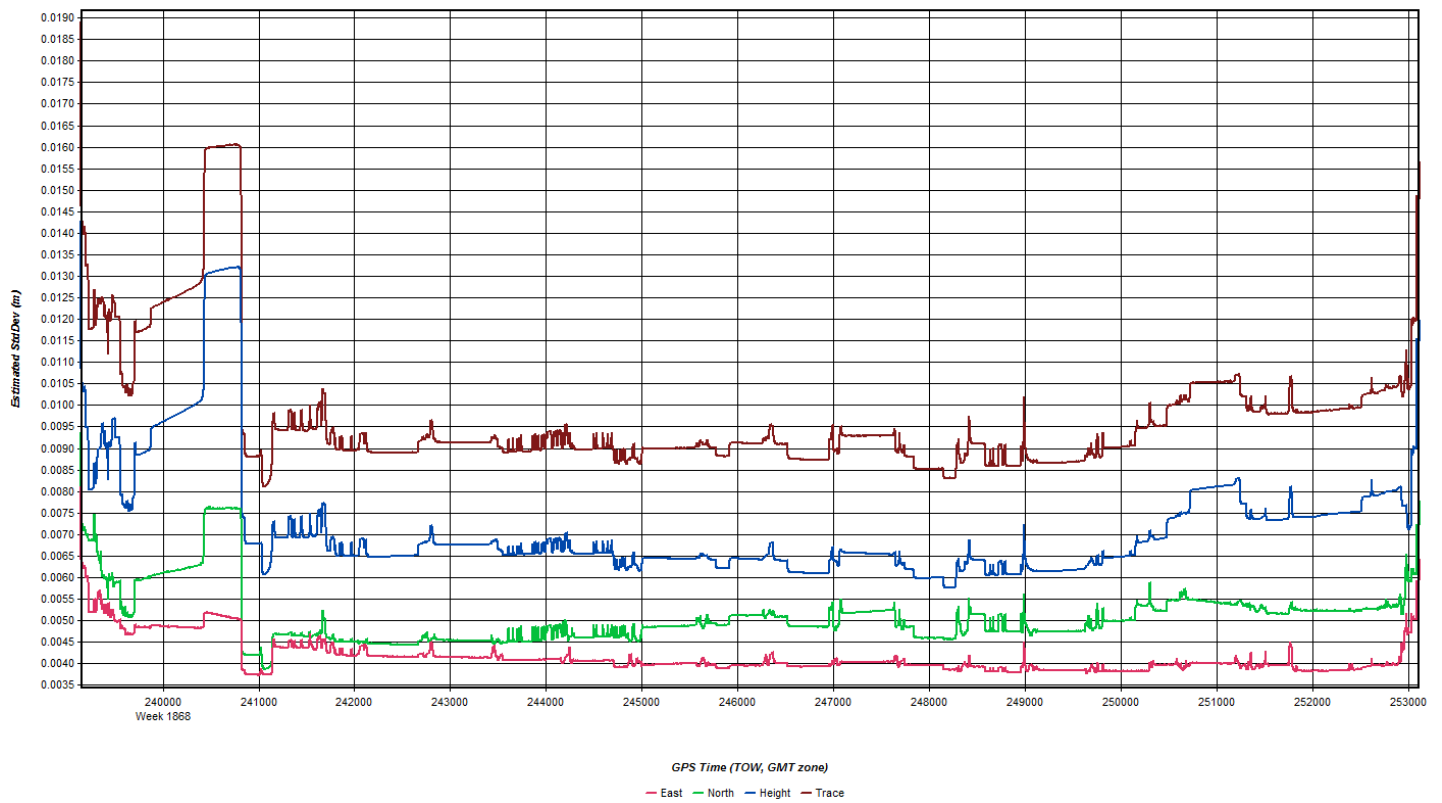
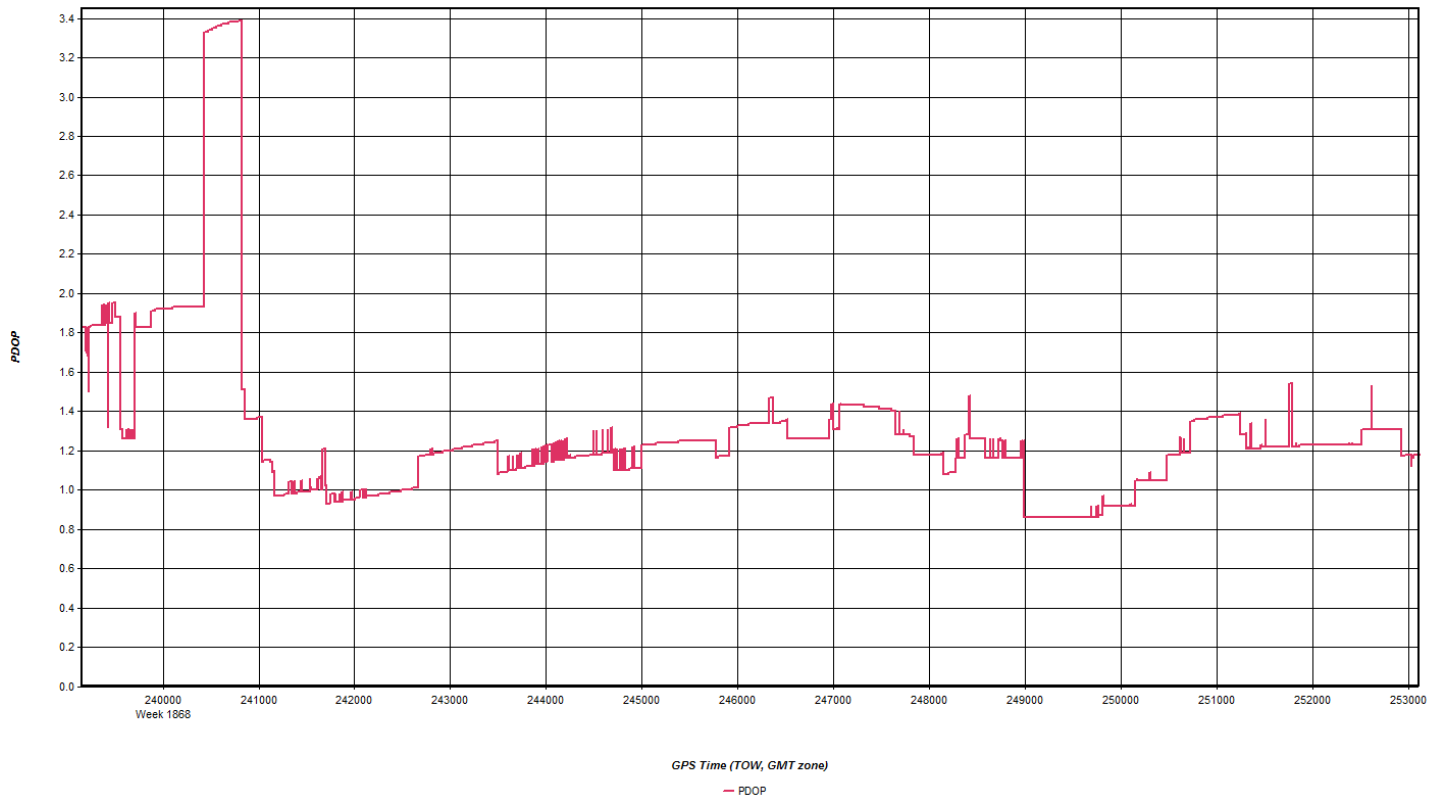
FILE	FL #	Alt. (AMSL)	Heading	Speed	Returns	Crab	POOP	NOTE
134720	10030	8274	33	152	100 %	0	0	SKC, WIND 285° @ 37 kts.
135574	10035	8262	33	153	100 %	0	0	271° @ 39 kts
140457	10034	8304	33	154	100 %	0	0	271° @ 37 kts
141357	10033	8386	33	154	100 %	0	0	271° @ 39 kts.
142572	10032	8281	33	148	100 %	0	0	288° @ 31 kts.
143609	10031	8238	33	149	100 %	0	0	271° @ 36 kts.
144730	10030	8136	33	150	100 %	0	0	294° @ 31 kts.
145868	10029	8080	33	150	100 %	0	0	294° @ 31 kts.
151110	10028	8058	33	156	100 %	0	0	276° @ 30 kts
152316	10027	8057	213	157	100 %	0	0	276° @ 31 kts.
153550	10026	8058	33	157	100 %	0	0	273° @ 38 kts. FEED CLAMS
154244	10025	8057	213	157	100 %	0	0	275° @ 31 kts. FORMING @
160154	10024	8057	33	158	100 %	0	0	278° @ 32 kts 7500'
161459	10023	8058	213	155	100 %	0	0	303° @ 31 kts.
162819	10022	8058	33	153	100 %	0	0	281° @ 31 kts
164556	10021	8107	127	180	100 %	0	0	307° @ 29 kts.
								296° @ 23 kts. 8265 mi.
								No ACCESS TO IPAS CONTROLLER?

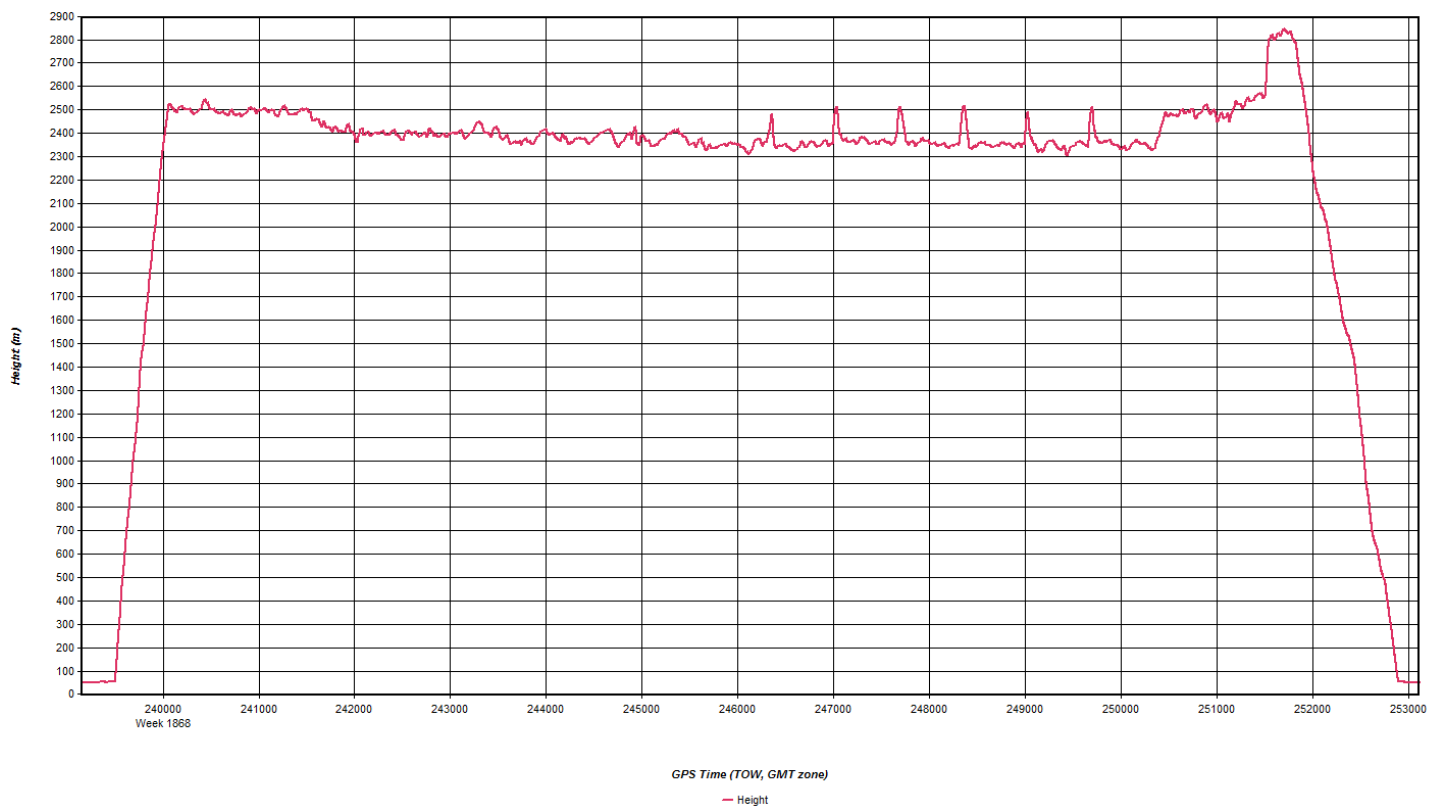
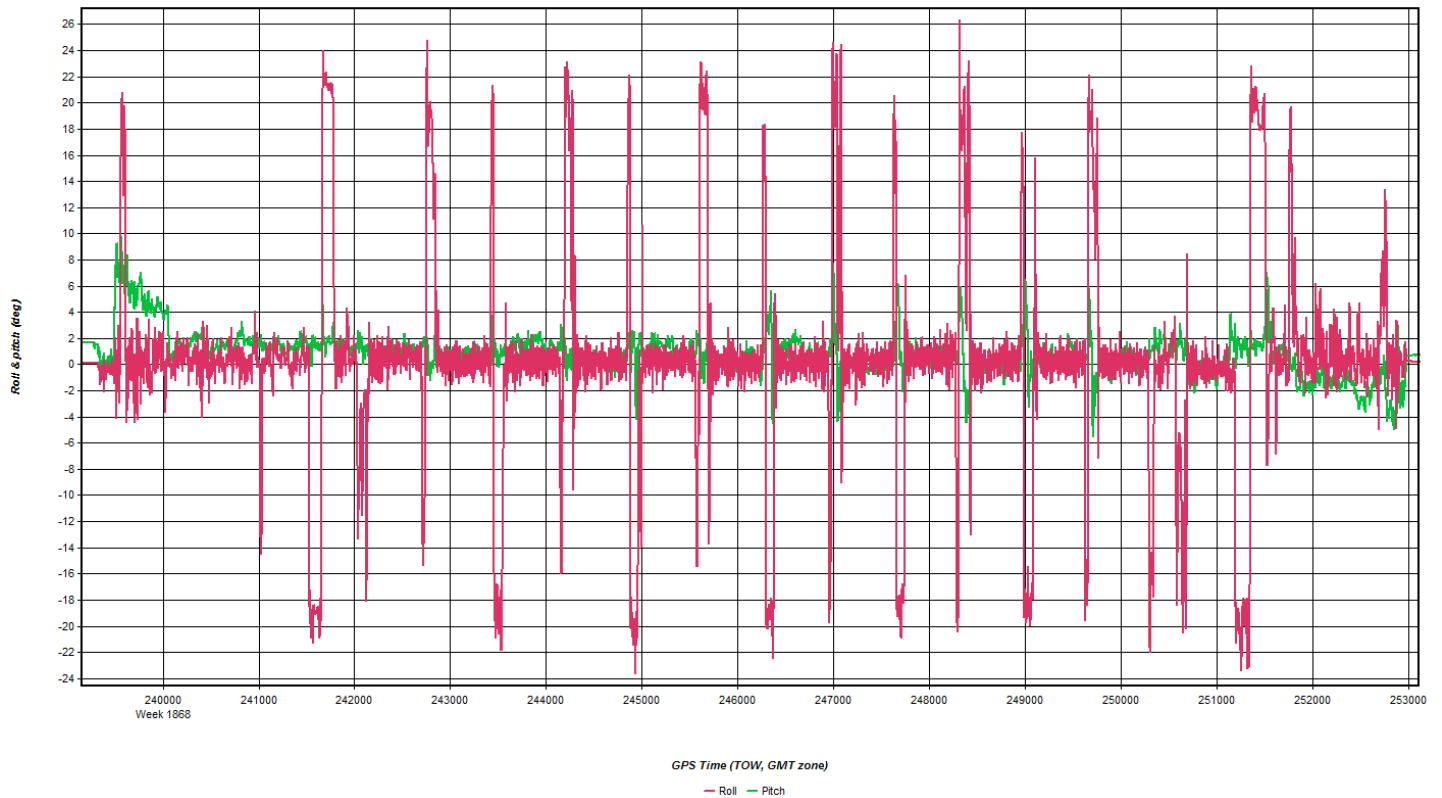
3.0 1.25

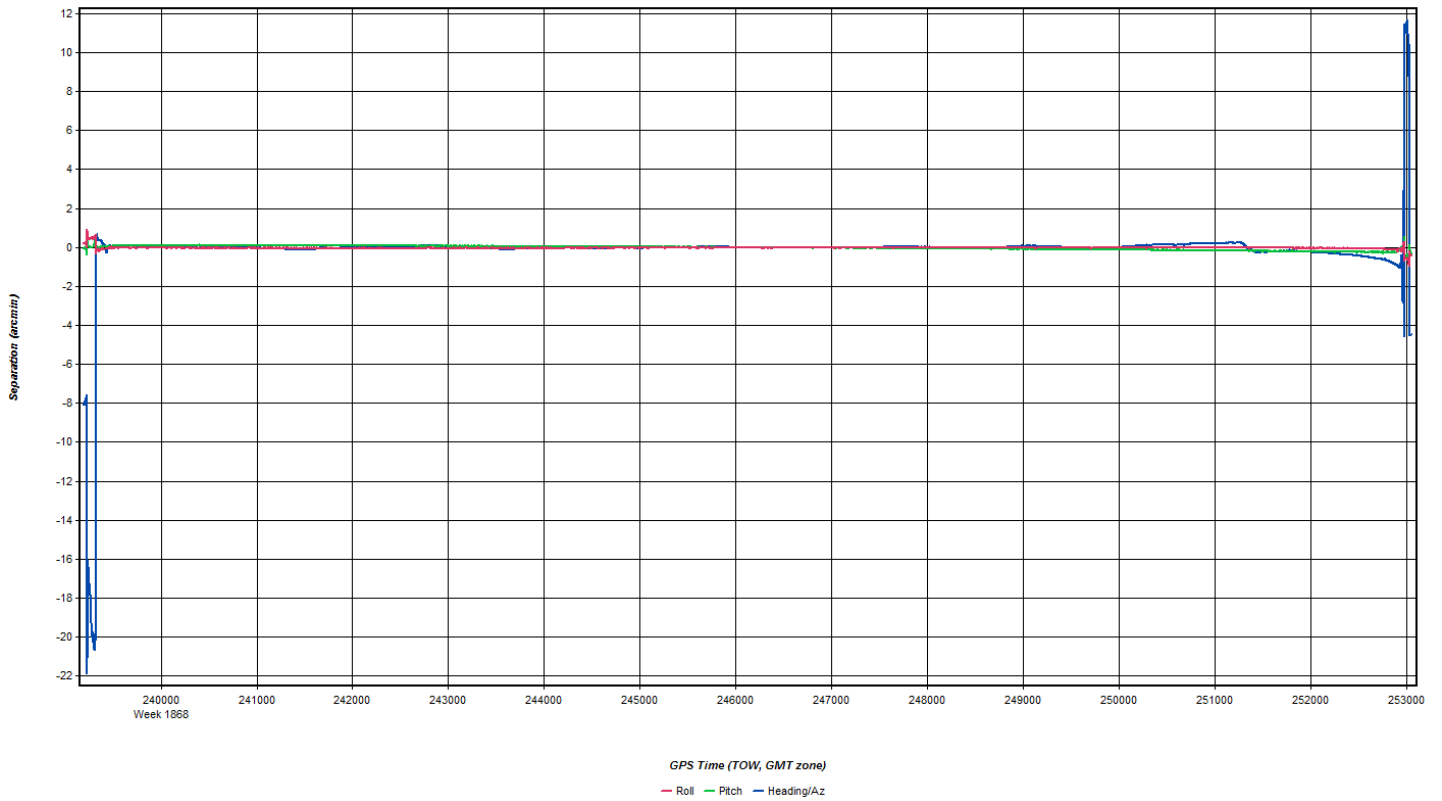
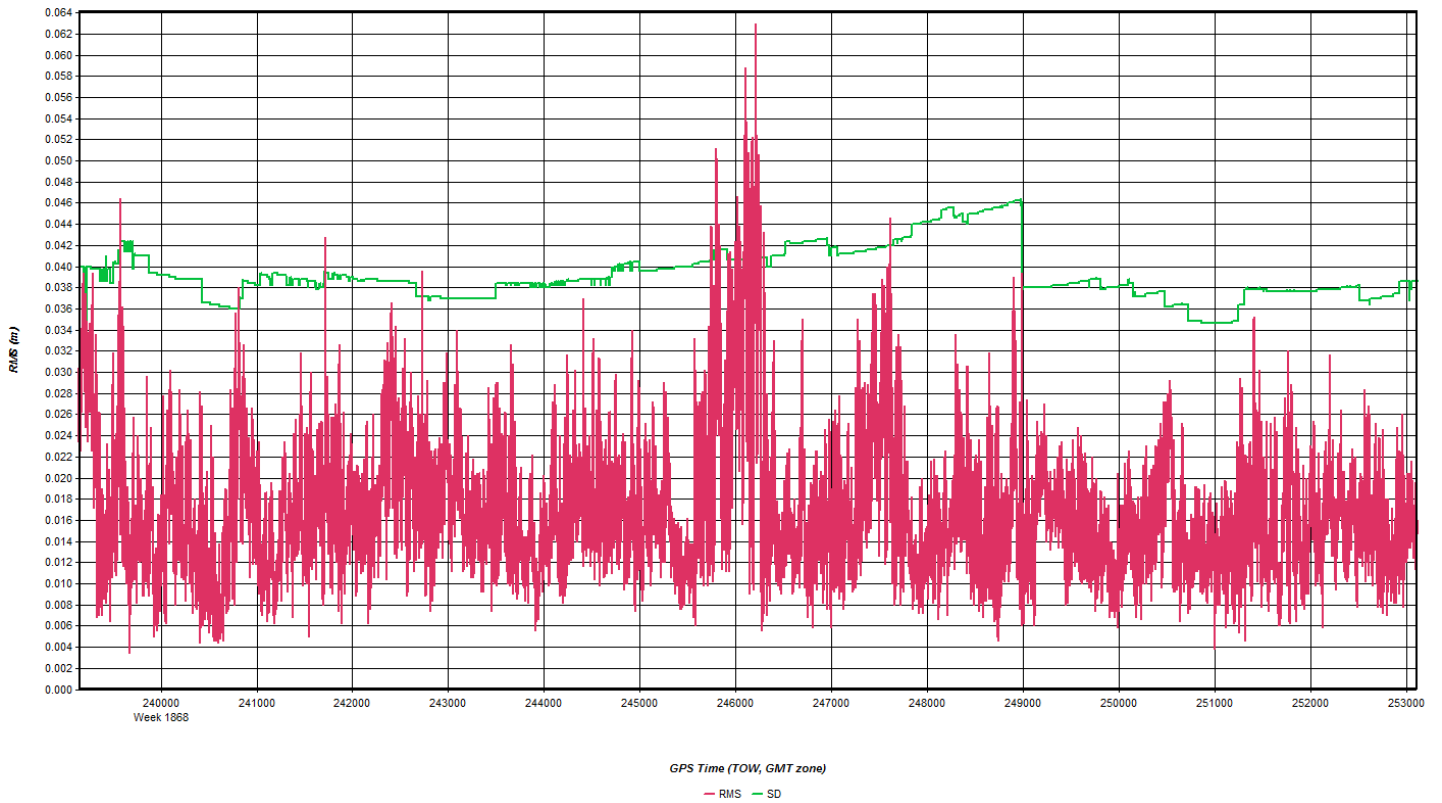
Oct 27, 2015-B (N6GR, SN7161)

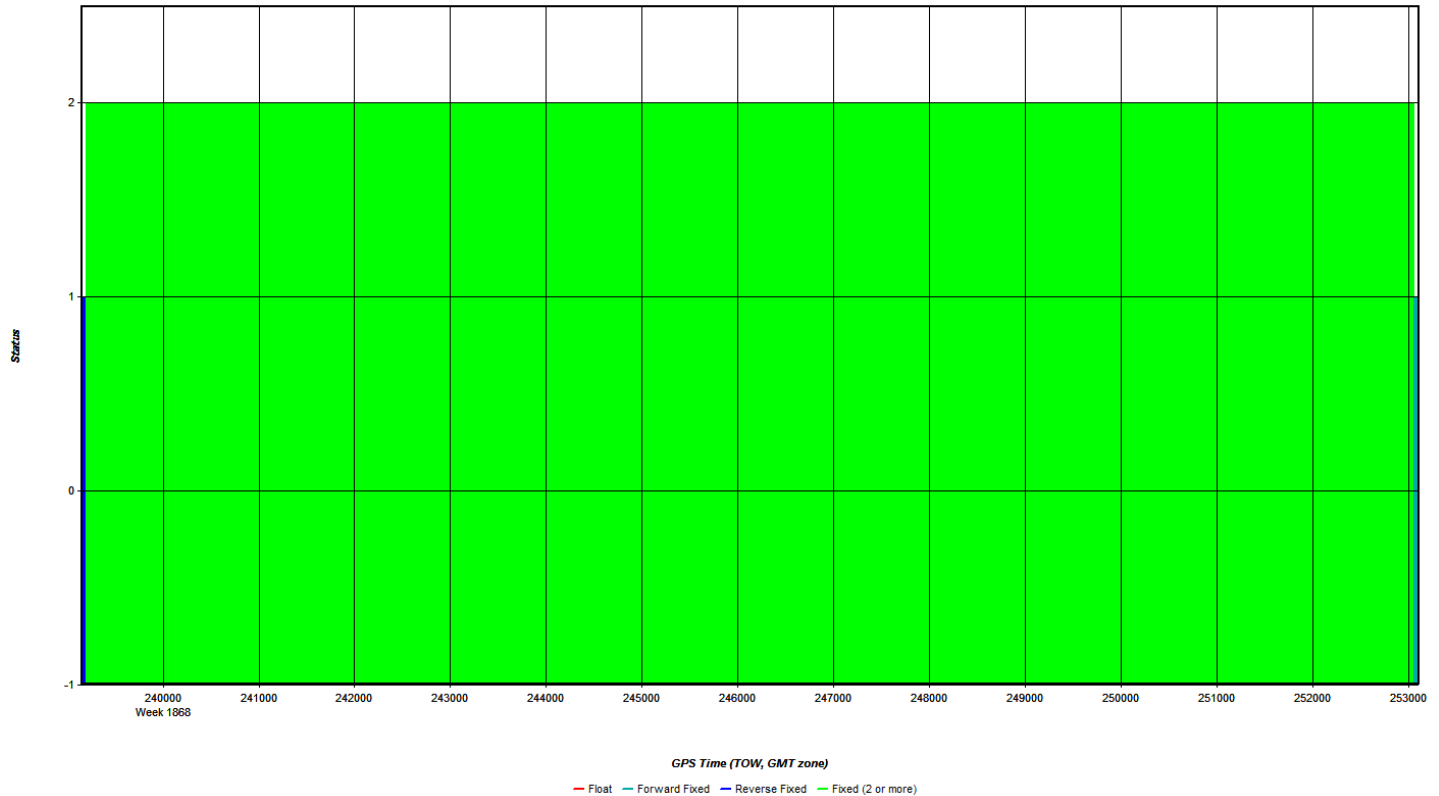












Coordinate/Antenna Settings

Master Remote

Base Station

1: MERA Name: MERA Disabled

File: S:\LIDAR\26818_CT_River\26818_CT_River\0UHA\20151027b\

Coordinates

Latitude: North 44 58 25.33352 Compute from PPP

Longitude: West 70 39 10.58376 Enter Grid Values

Ellipsoidal height: 489.568 m Enter MSL Height

Datum: NAD83(2011) 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

20151027b-7161

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Geospatial Solutions

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LIDAR MISSION RECORD SHEET

Project Name: LOUIS GT RIVER PITTSBURGH, NH
 Project Number: 20151027b
 Flight Plan File: 20151027b_Pittsburh_Sat_Agl_Nobles_Spd

Client: UNIVERSITY OF PITTSBURGH
 Tech: D. HOLT
 Aircraft: NGGR

Date Flown: 10/27/2015
 Takeoff Time: 18:35 Z
 Landing Time: 22:14 Z

Time of Day: 18:35
 Time of Flight: 3:40
 Time of Day: 22:14

Field Elev: 288'
 Time of Day: 18:35
 Time of Day: 22:14

Begin Temp: 10°C
 Begin Dewpoint: -2°C
 Begin Pressure: 30.57
 Mid Temp: 11°C
 Mid Dewpoint: -2°C
 Mid Pressure: 30.57
 End Temp: 4°C
 End Dewpoint: -3°C
 End Pressure: 30.52

IPAS File Name: 20151027_102717
 From/To: 000 ->
 LOAD Unit #: 5in 7151
 HD #: 317

start stop

BASE: ABGPS-20151027
HOBBS-20151027

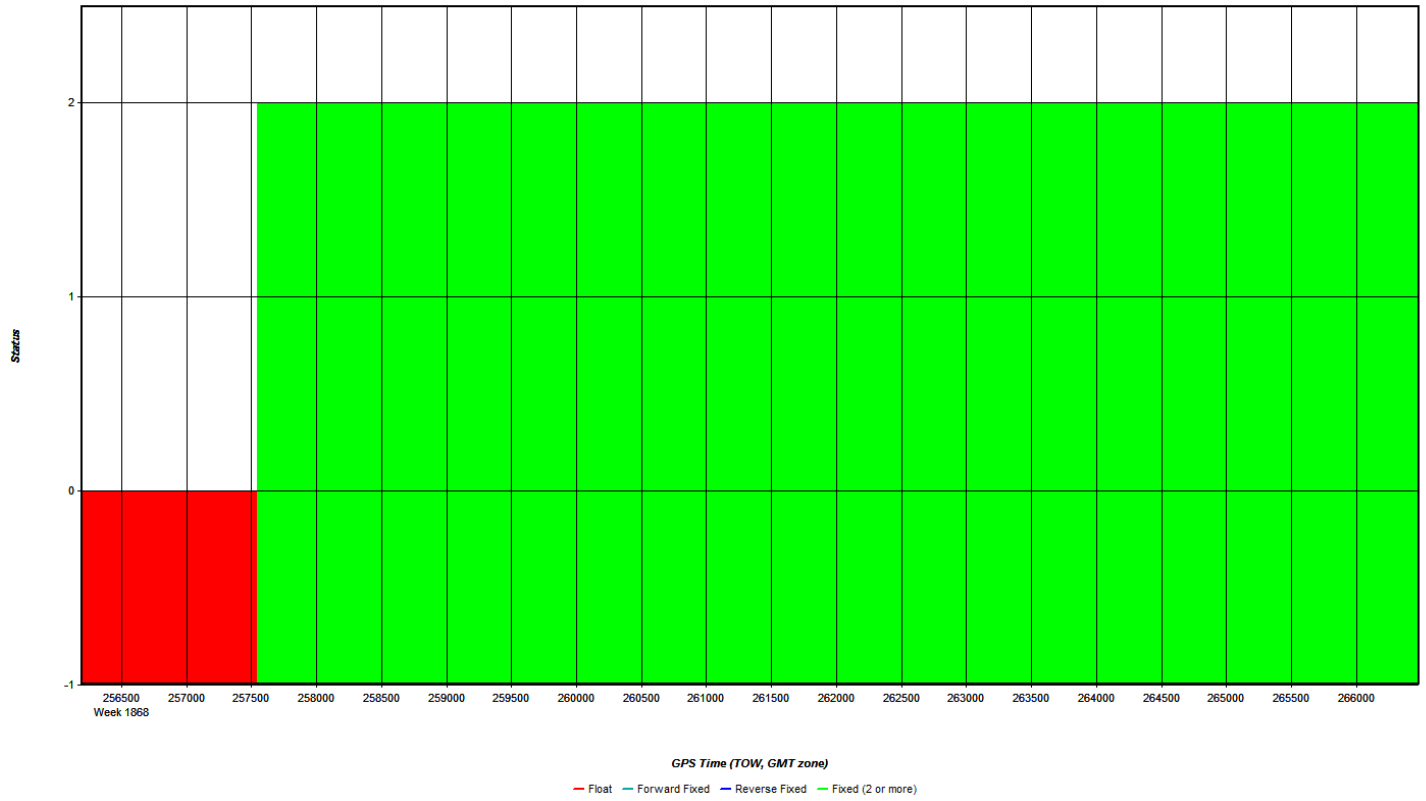
Project's Sighting Requirements: FOV (degrees): 40% Laser Coverage (%): 100% SPIA 7: 100%
 Scan Rate (Hz): 534 Altitude AGL (ft): 6000 MPE/MP: 1000
 Pulse Rate (Hz): 131700 Range Gate (m): 133-146.4

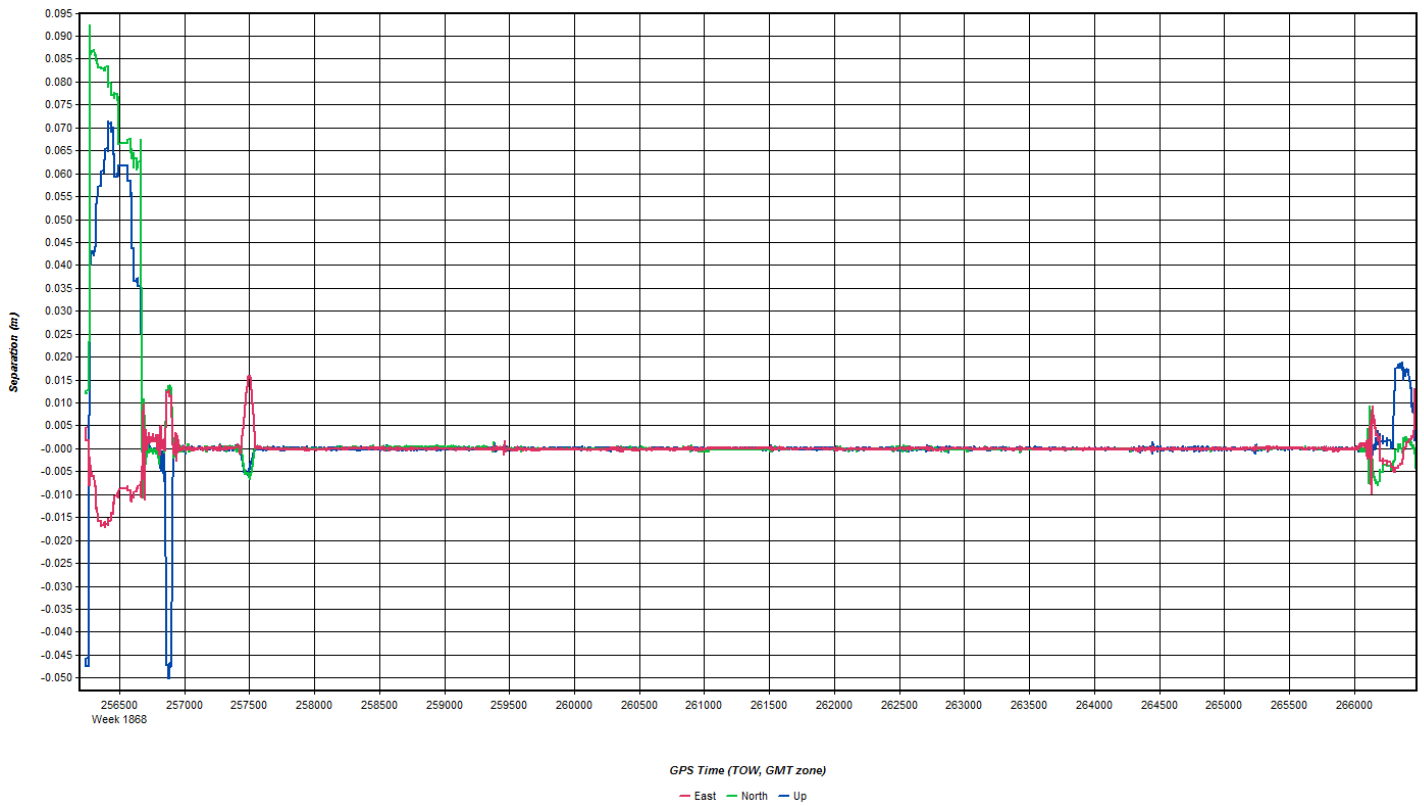
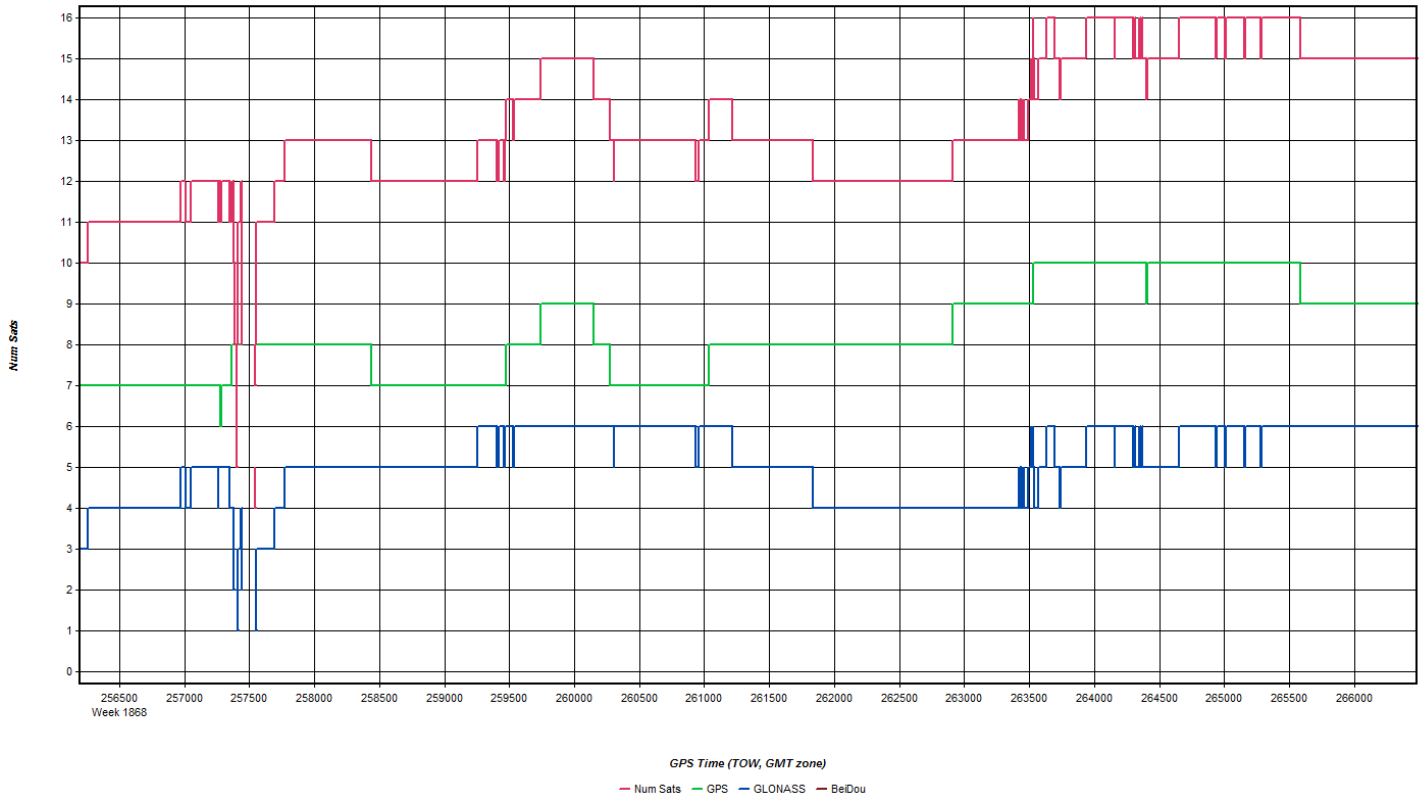
FCMS File Name: 20151027_102717
 GPS Base Location(s): COAS NEW
 Static or Flyover?: FLYOVER
 Laser On Times & Off Times: 18:35 Z 12:14 Z

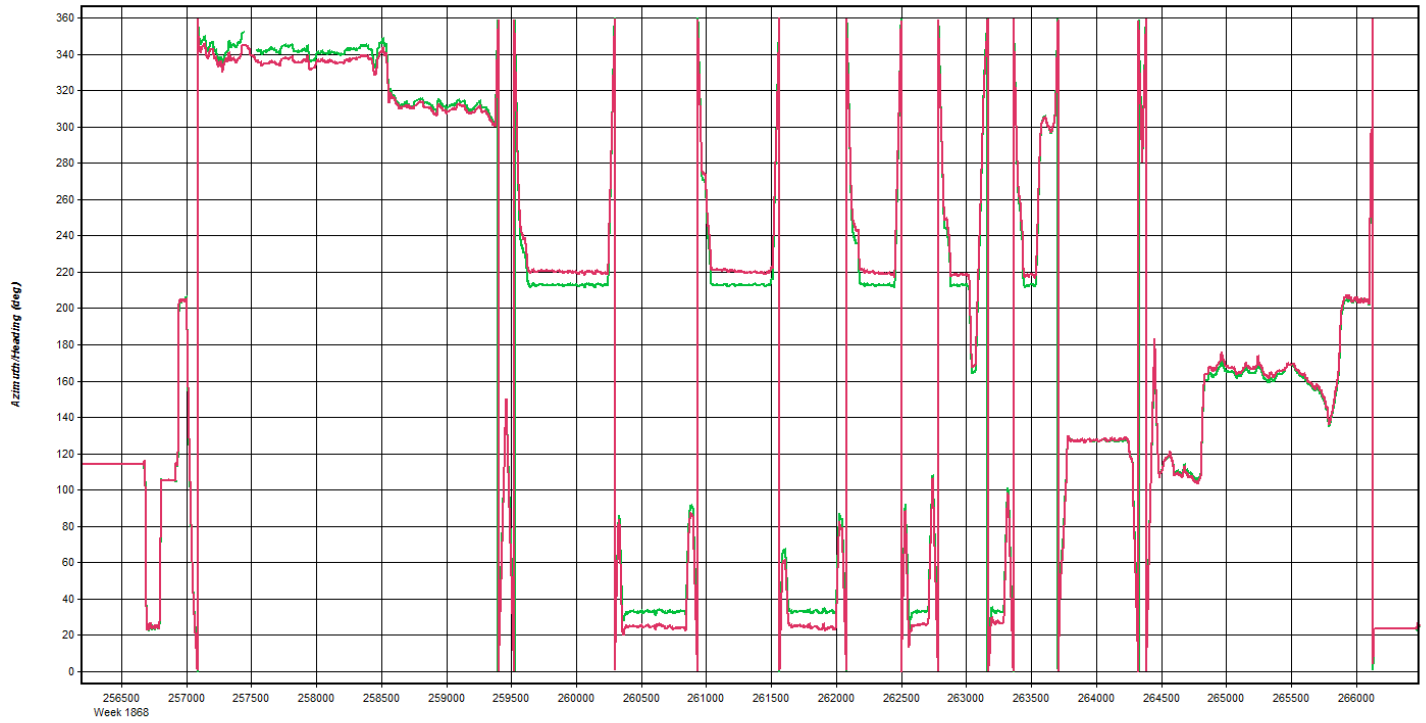
FILE	FL #	AIL (AMSL)	Heading	Speed	Returns	Crab	PDOP	NOTES
1911610	10021	3887	23°	25	100%	0°	2.7	285° @ 27 kts
1921617	10020	3874	23°	25	100%	0°	2.7	291° @ 33 kts
194003	10019	3851	23°	25	100%	0°	2.7	276° @ 34 kts
195143	10018	3828	23°	25	100%	0°	2.7	278° @ 32 kts
200331	10017	3815	23°	25	100%	0°	2.7	274° @ 29 kts
201511	10016	3792	23°	25	100%	0°	2.7	274° @ 32 kts
202647	10015	3769	23°	25	100%	0°	2.7	275° @ 31 kts
203810	10014	3746	23°	25	100%	0°	2.7	272° @ 33 kts
204921	10013	3723	23°	25	100%	0°	2.7	274° @ 30 kts
210035	10012	3700	23°	25	100%	0°	2.7	283° @ 32 kts
21135	10011	3677	23°	25	100%	0°	2.7	300° @ 31 kts
212757	10010	3654	23°	25	100%	0°	2.7	280° @ 21 kts
213823	10009	3631	23°	25	100%	0°	2.7	

2.5 1.25

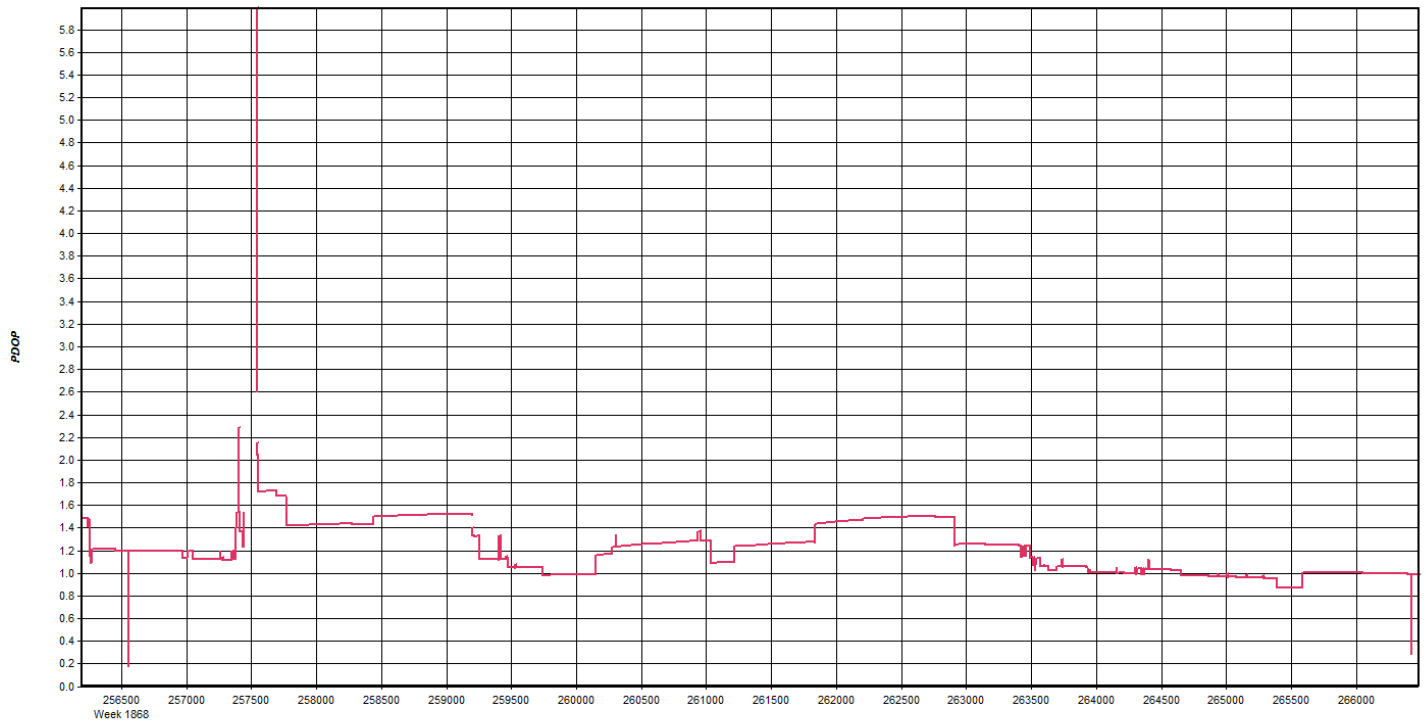
Oct 27, 2015-C (N6GR, SN7161)



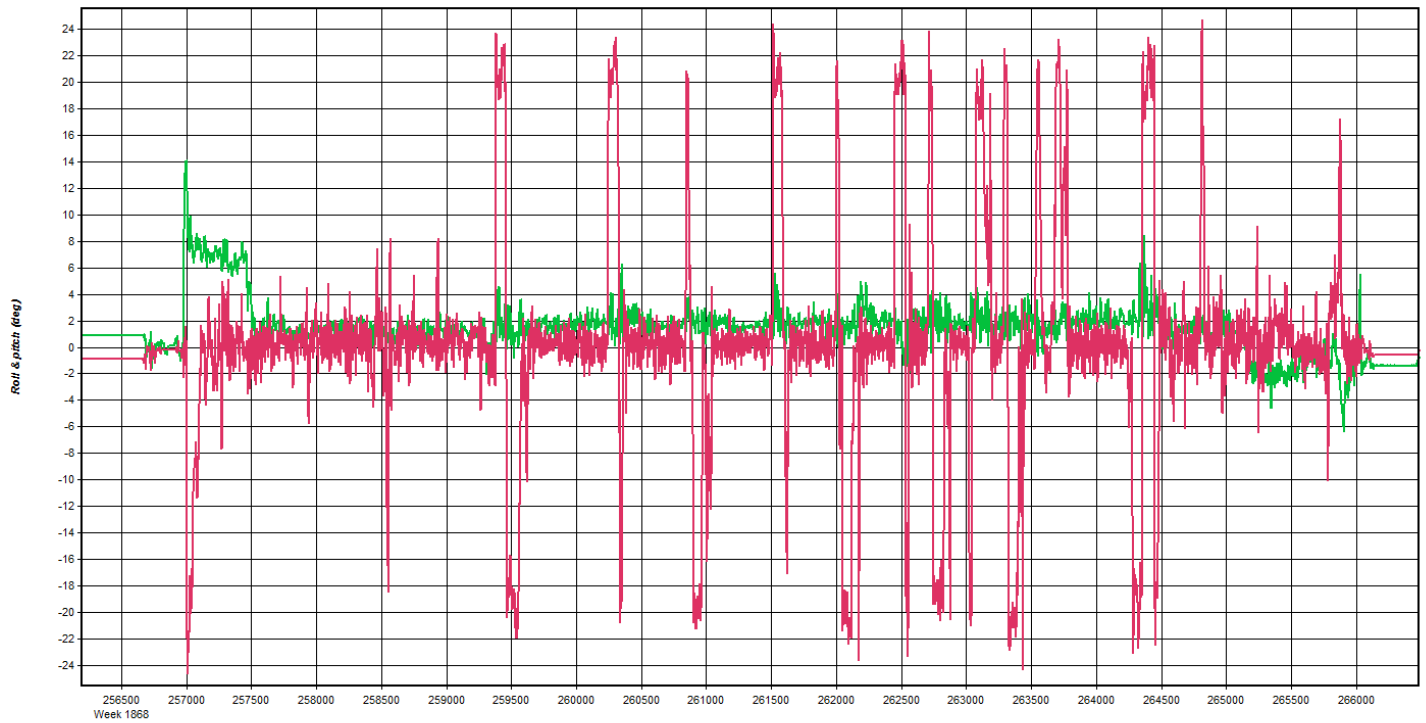
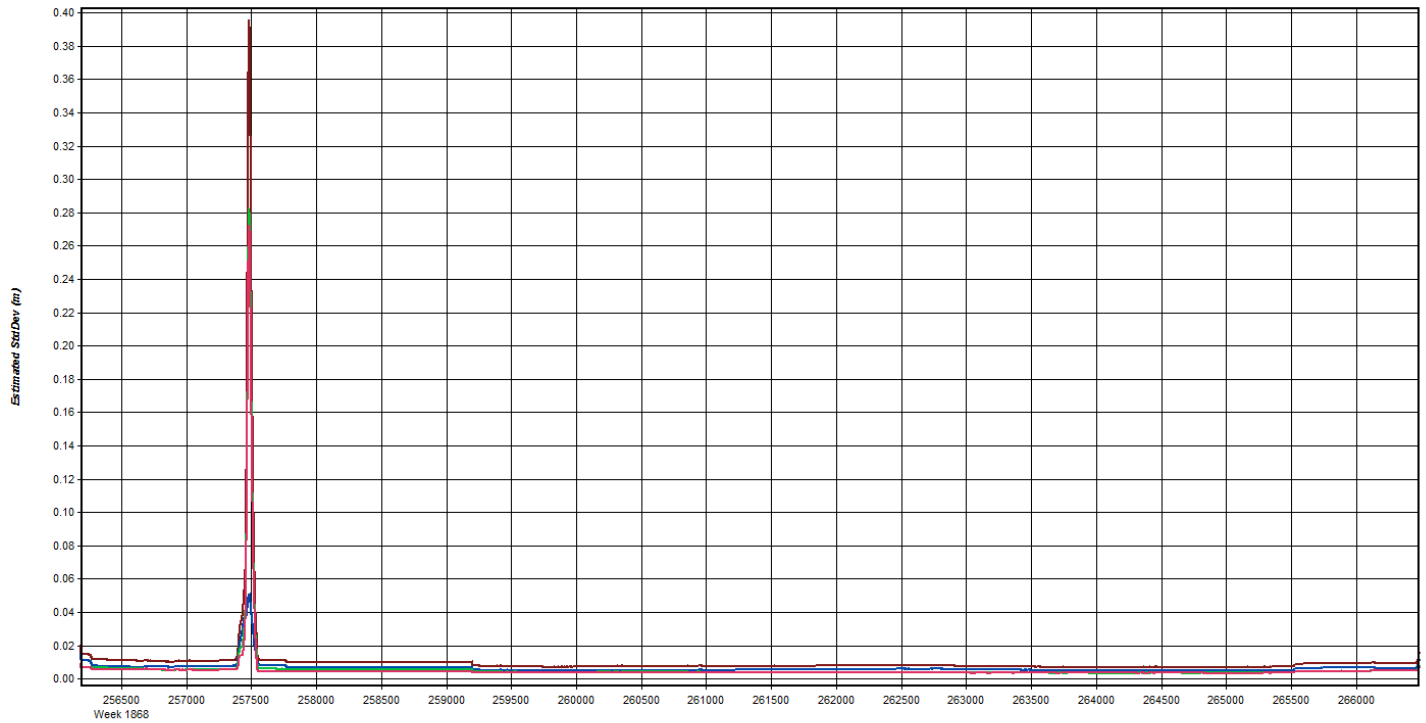


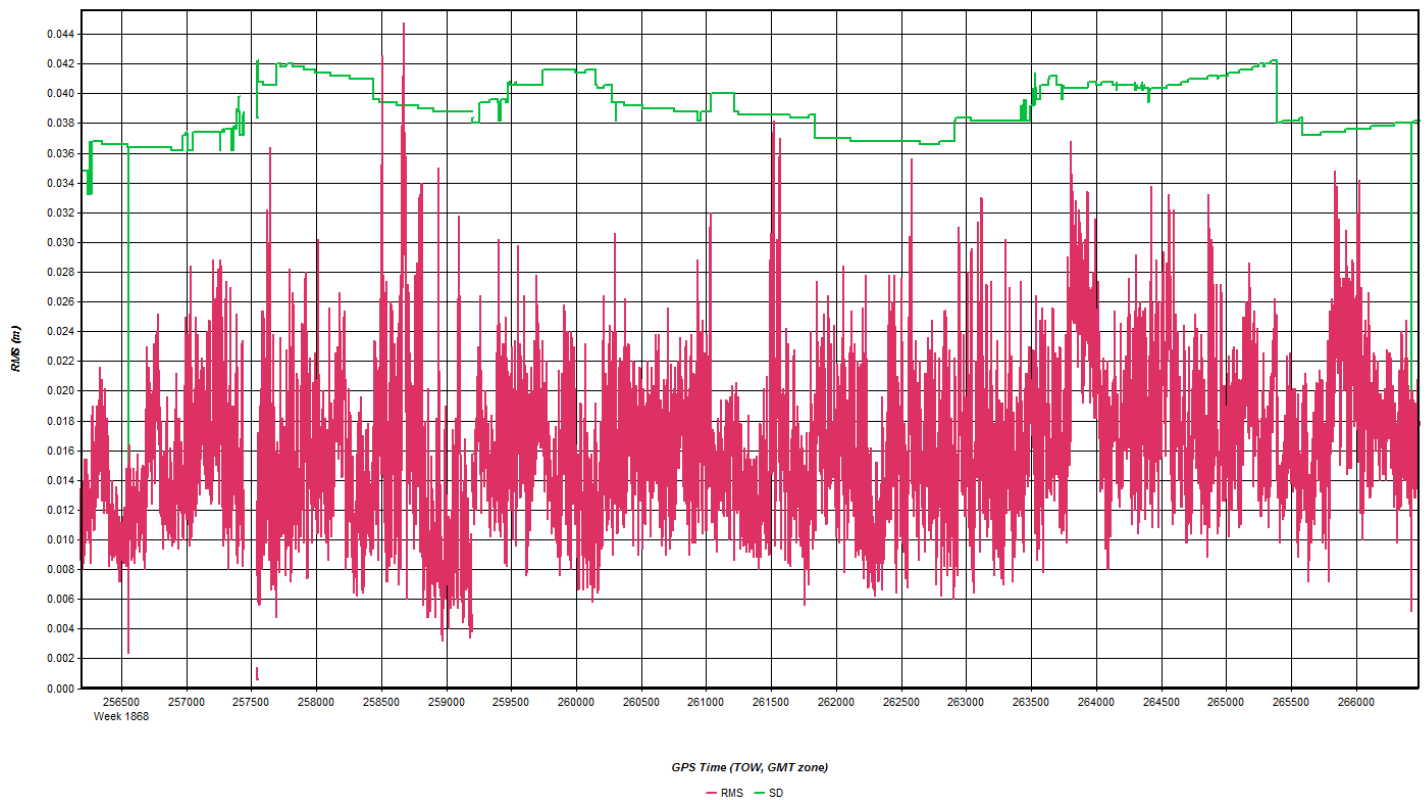
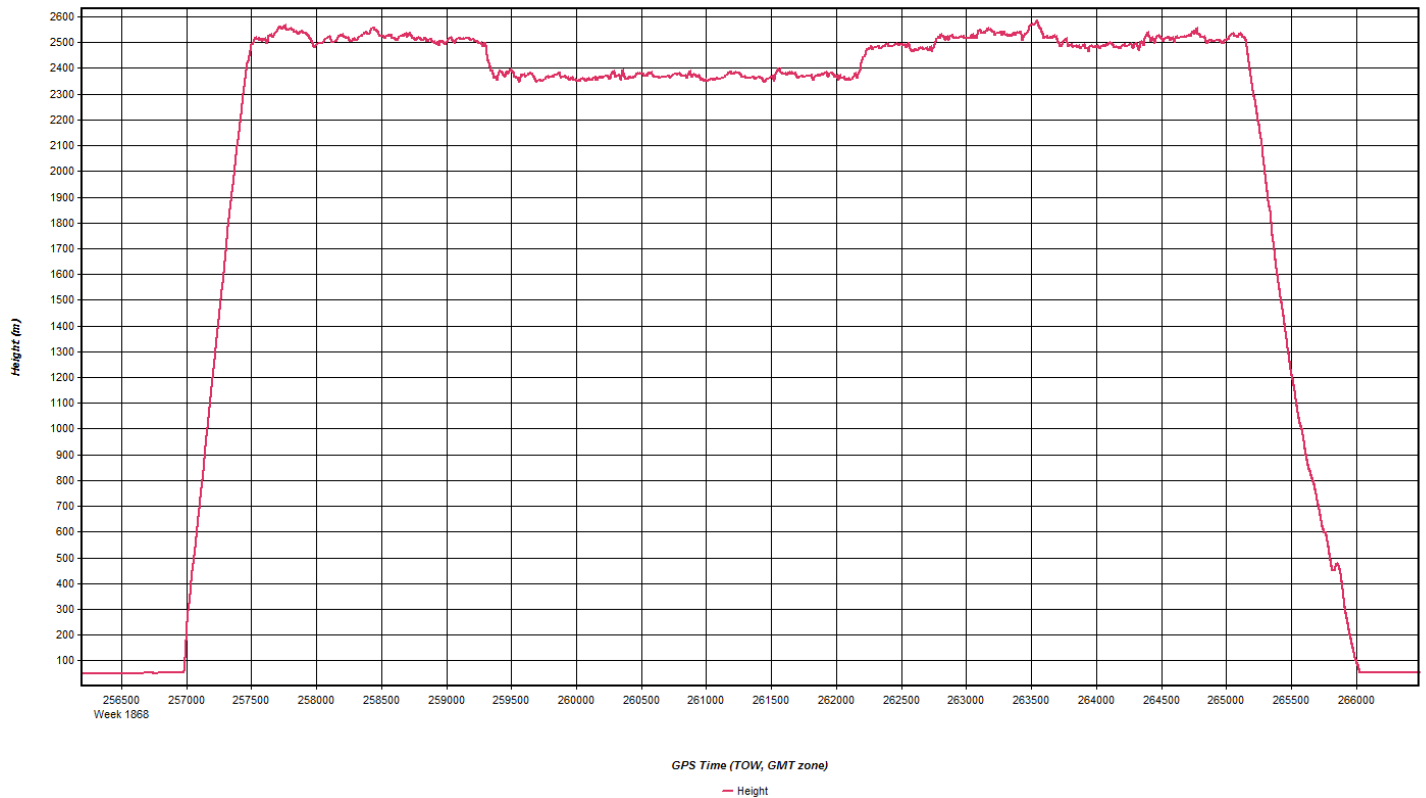


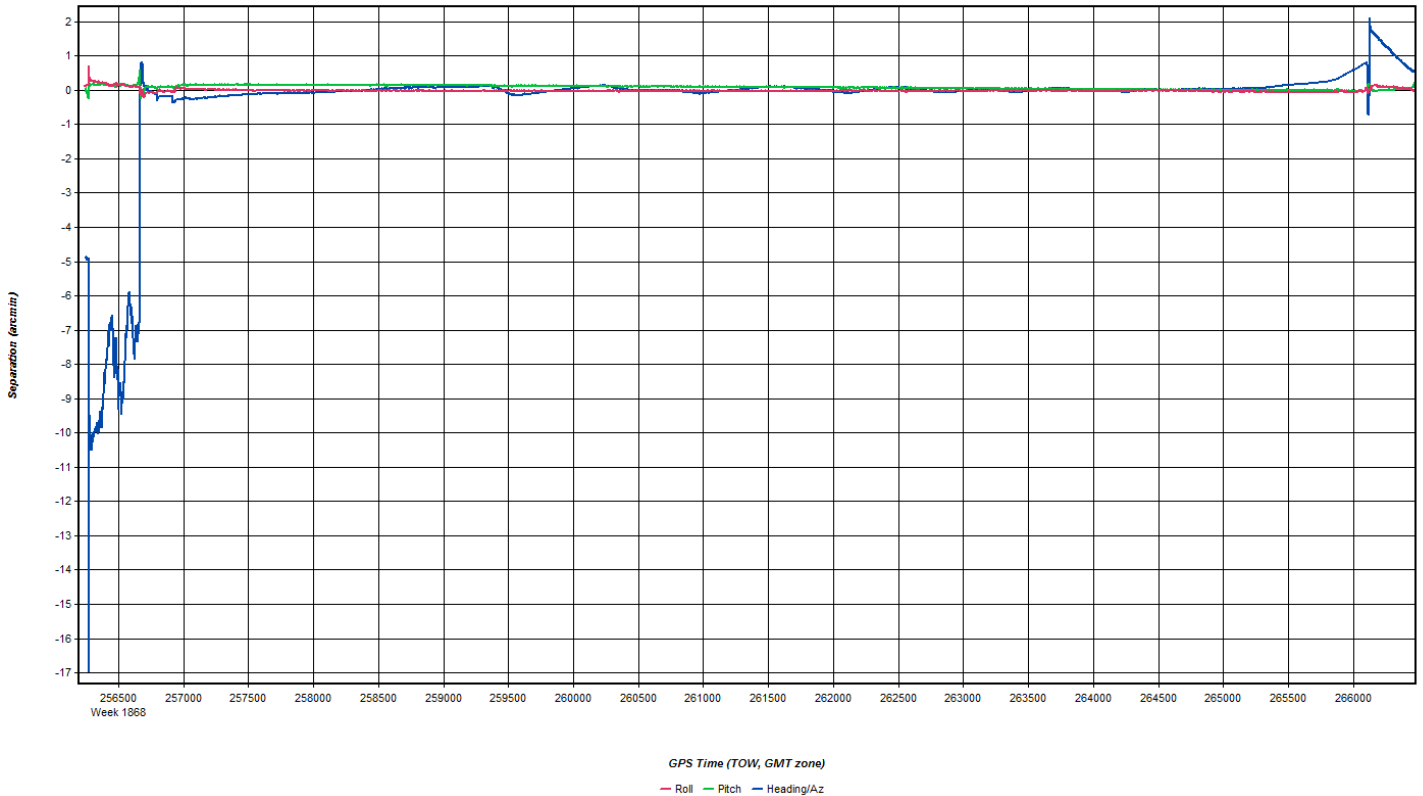
GPS Time (TOW, GMT zone)
— Heading/Azimuth — GPS-COG



GPS Time (TOW, GMT zone)
— PDOP







Coordinate/Antenna Settings

Master Remote

Base Station

1: MERA Name: MERA Disabled

File: S:\LIDAR\26818_CT_River\26818_CT_River\VMF86\26818_USG

Coordinates

Latitude: North 44 58 25.33352 Compute from PPP

Longitude: West 70 39 10.58376 Enter Grid Values

Ellipsoidal height: 489.568 m Enter MSL Height

Datum: NAD83(2011) 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

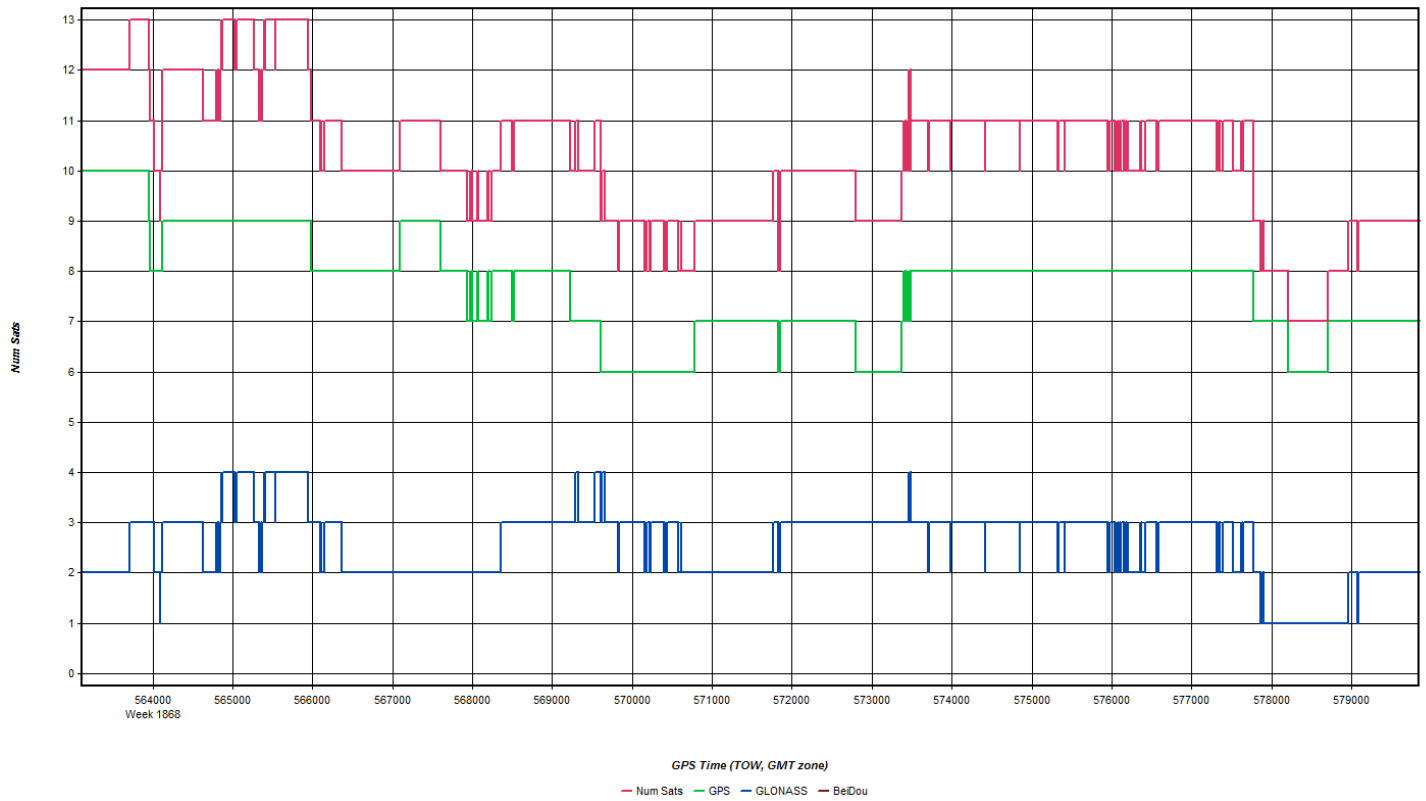
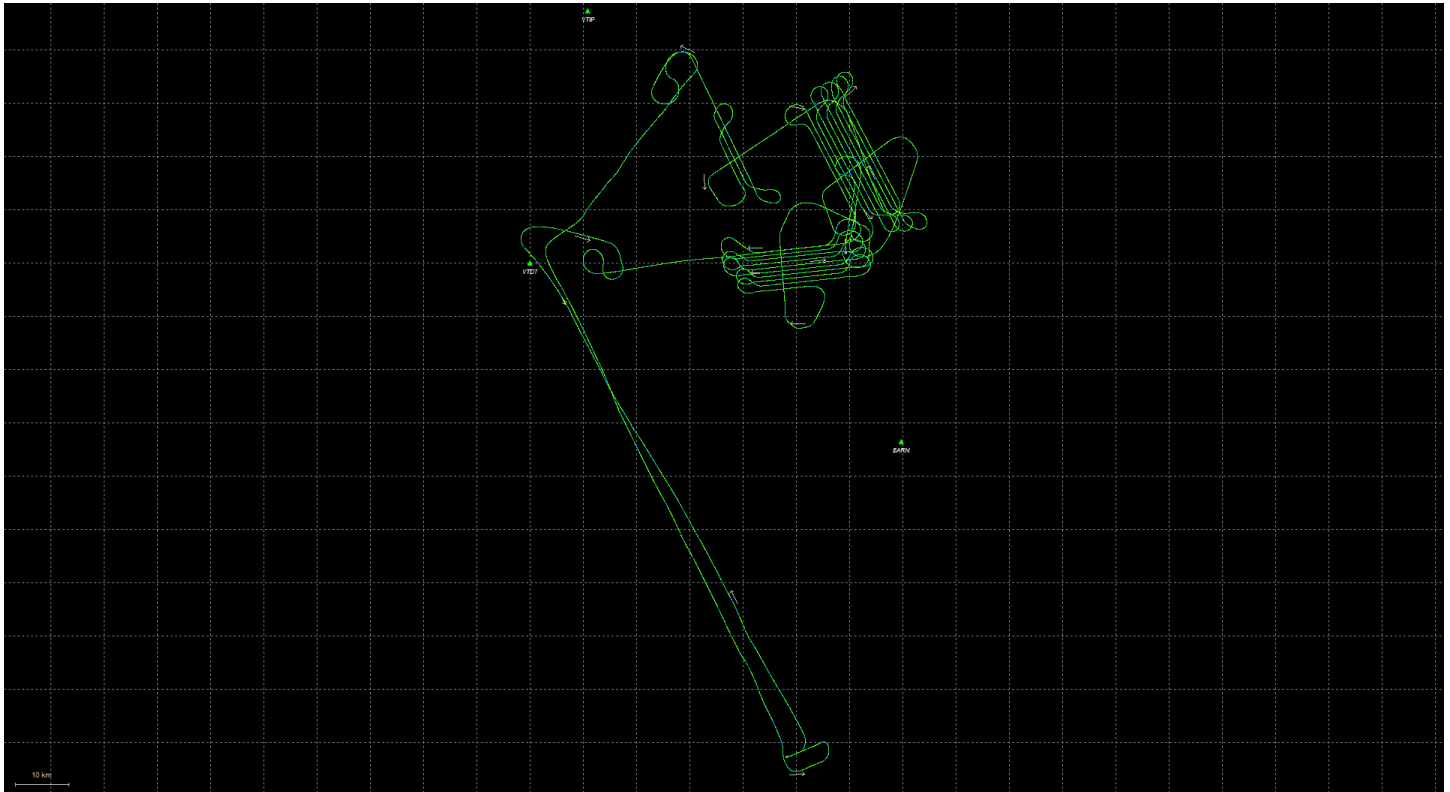
ARP

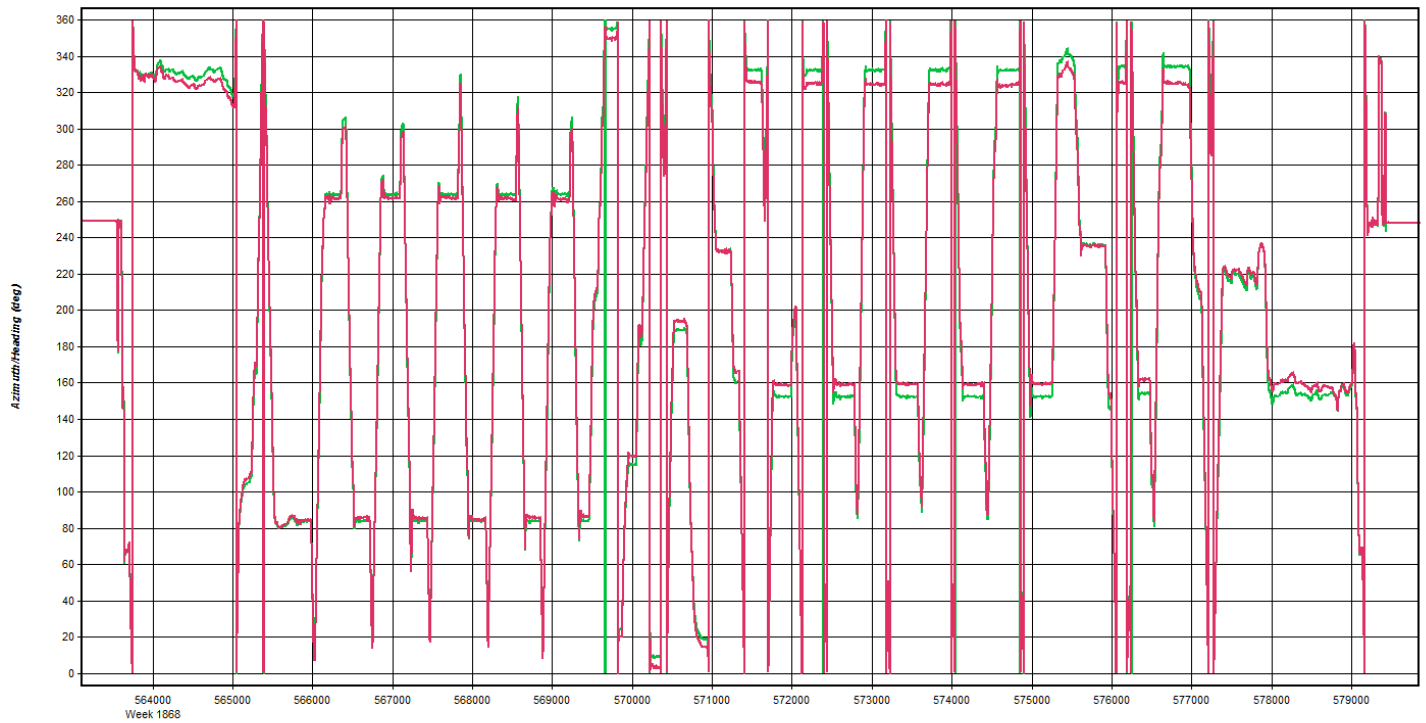
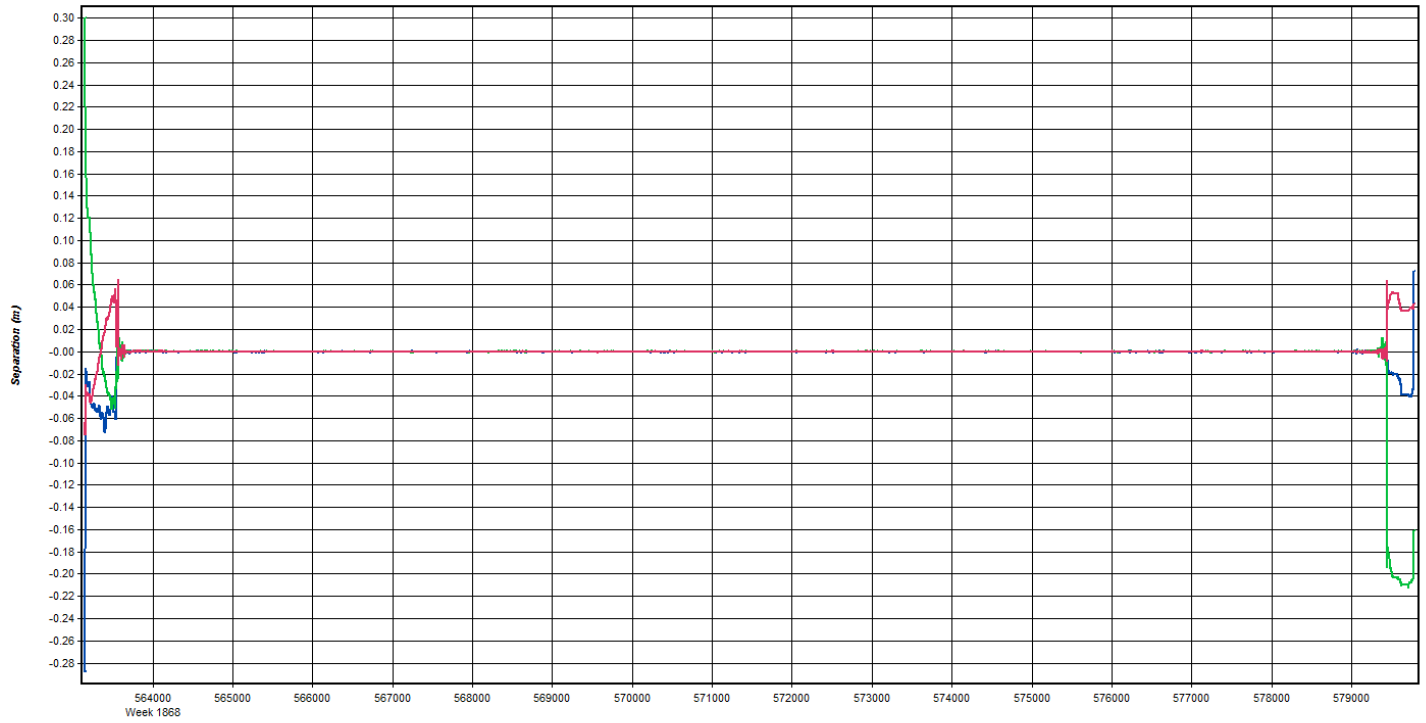
L1 Phase Centre

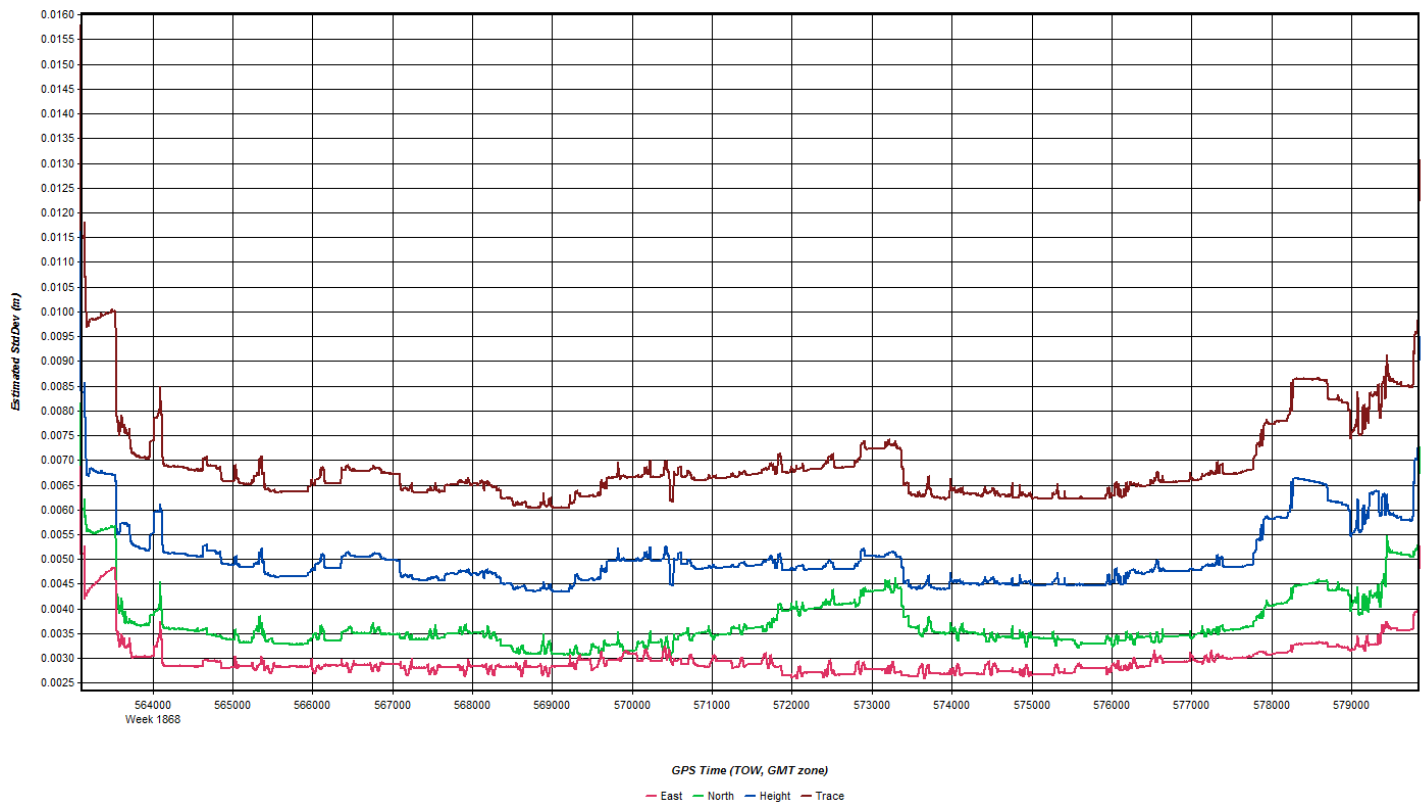
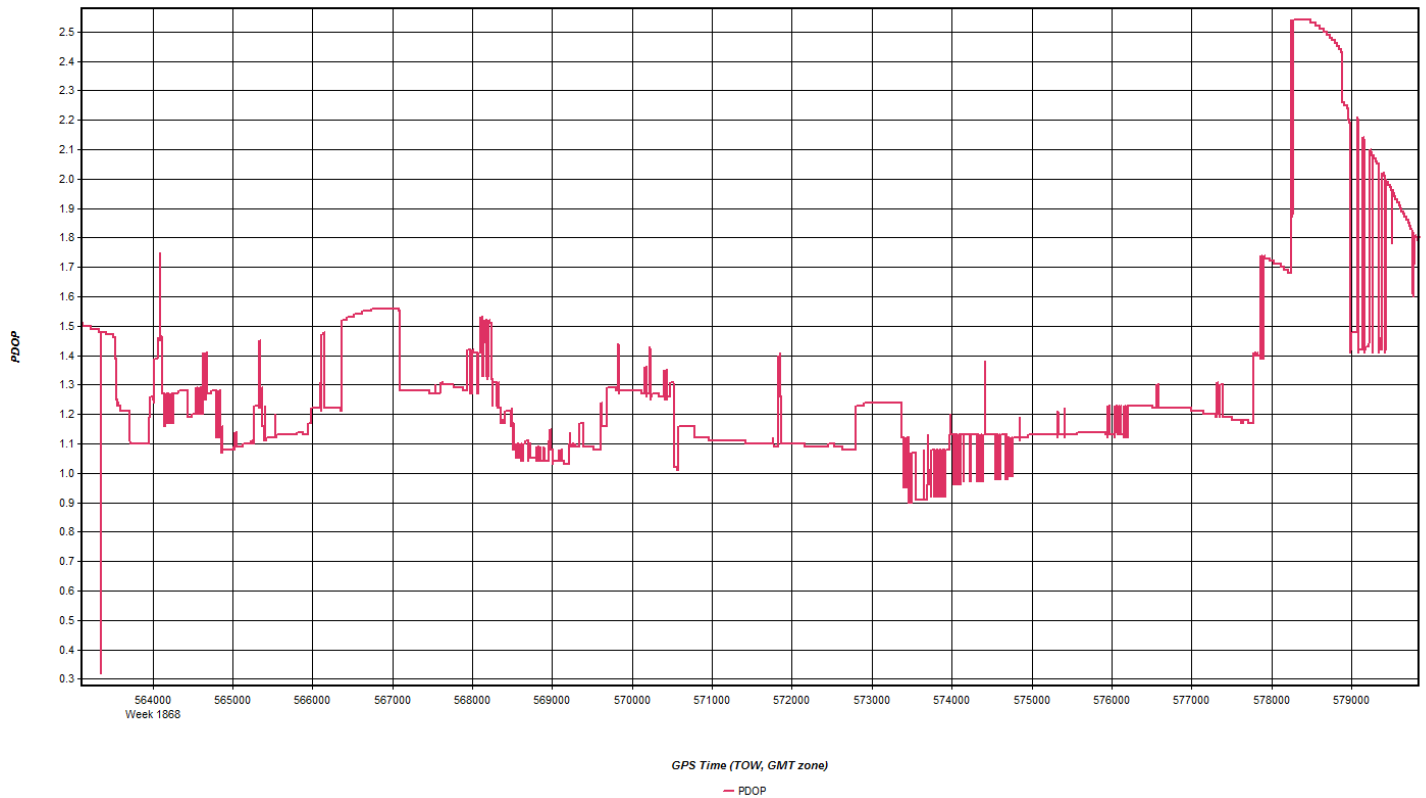
Compute From Slant

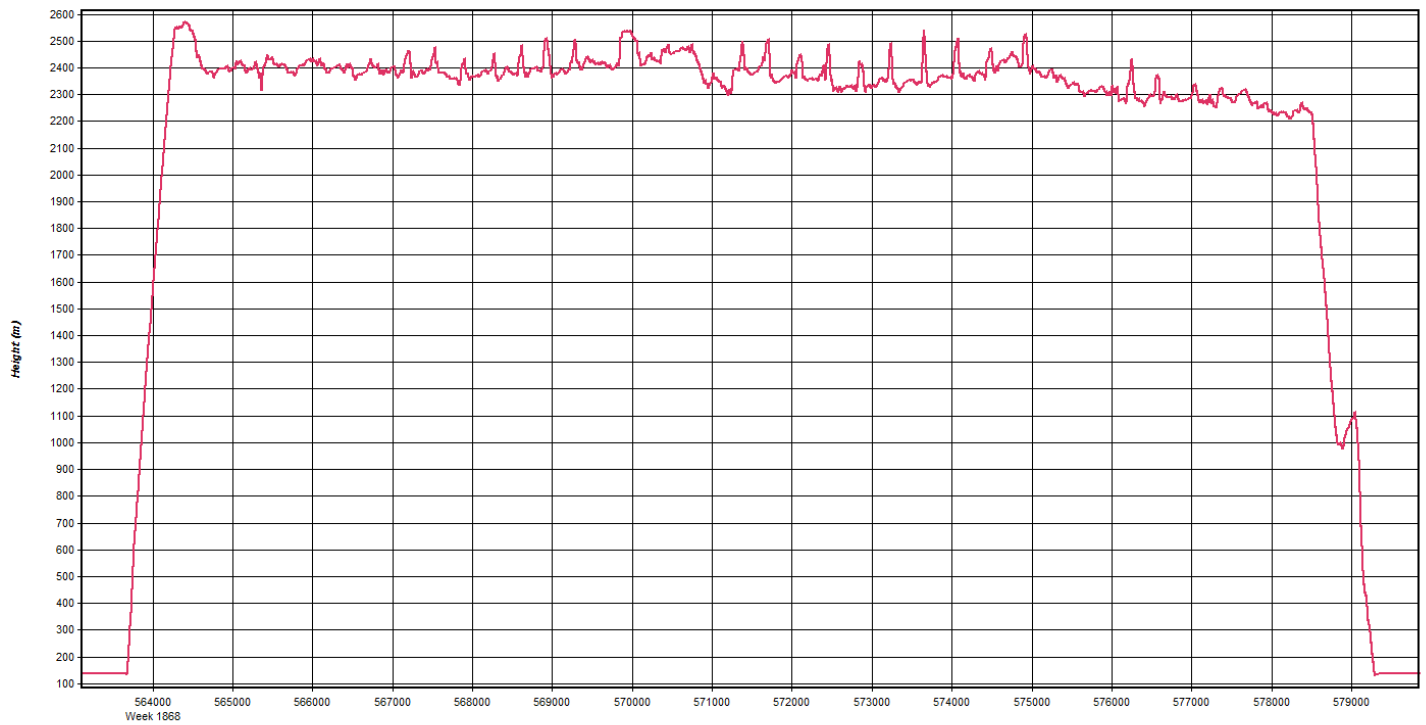
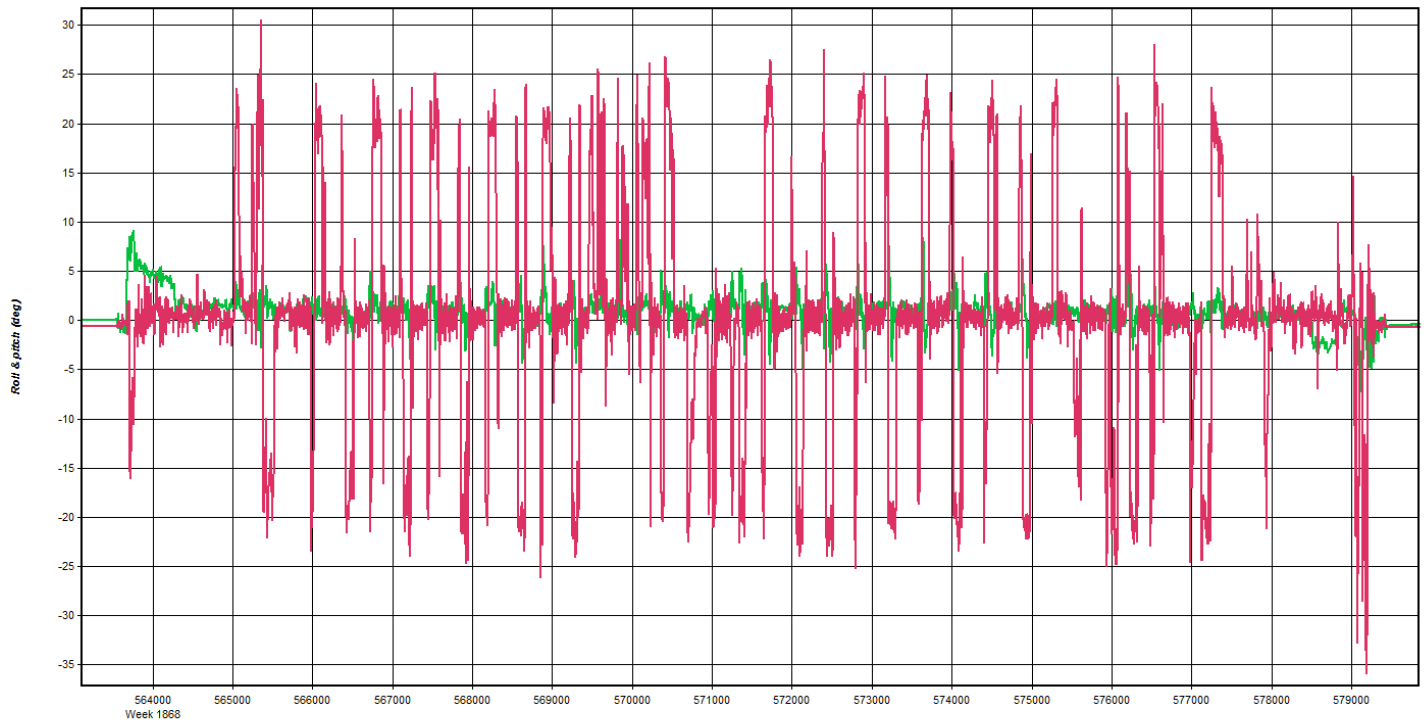
OK Cancel

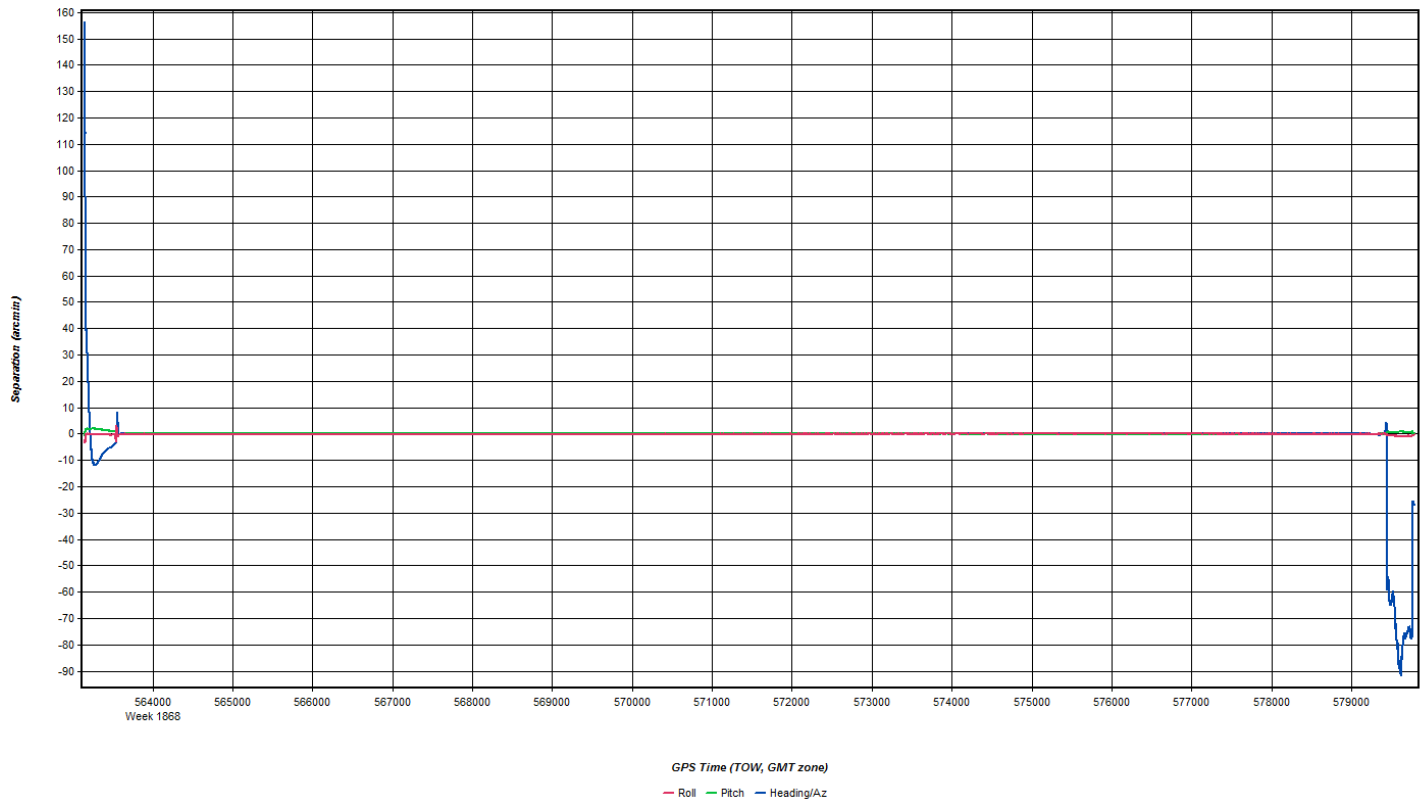
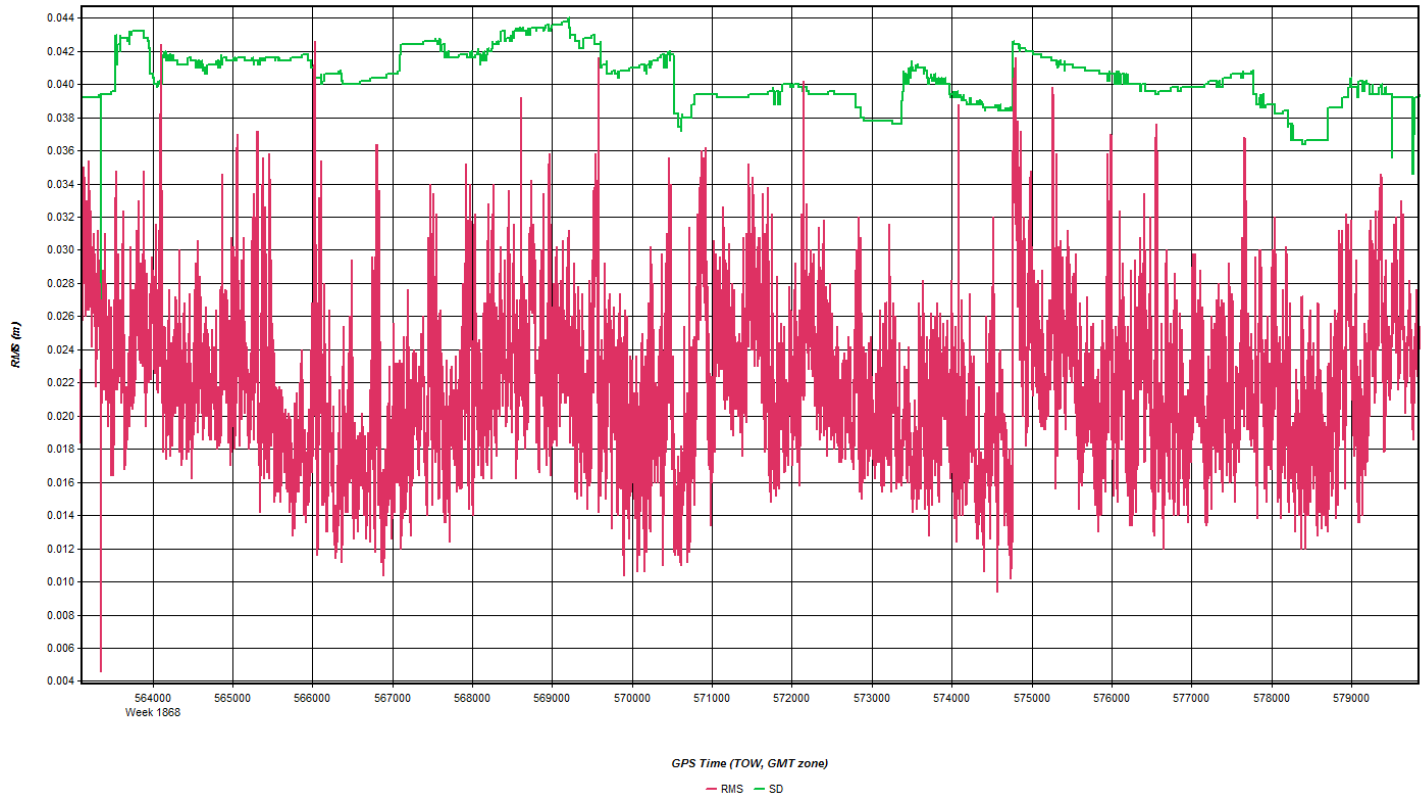
Oct 31, 2015-A (N6GR, SN7161)

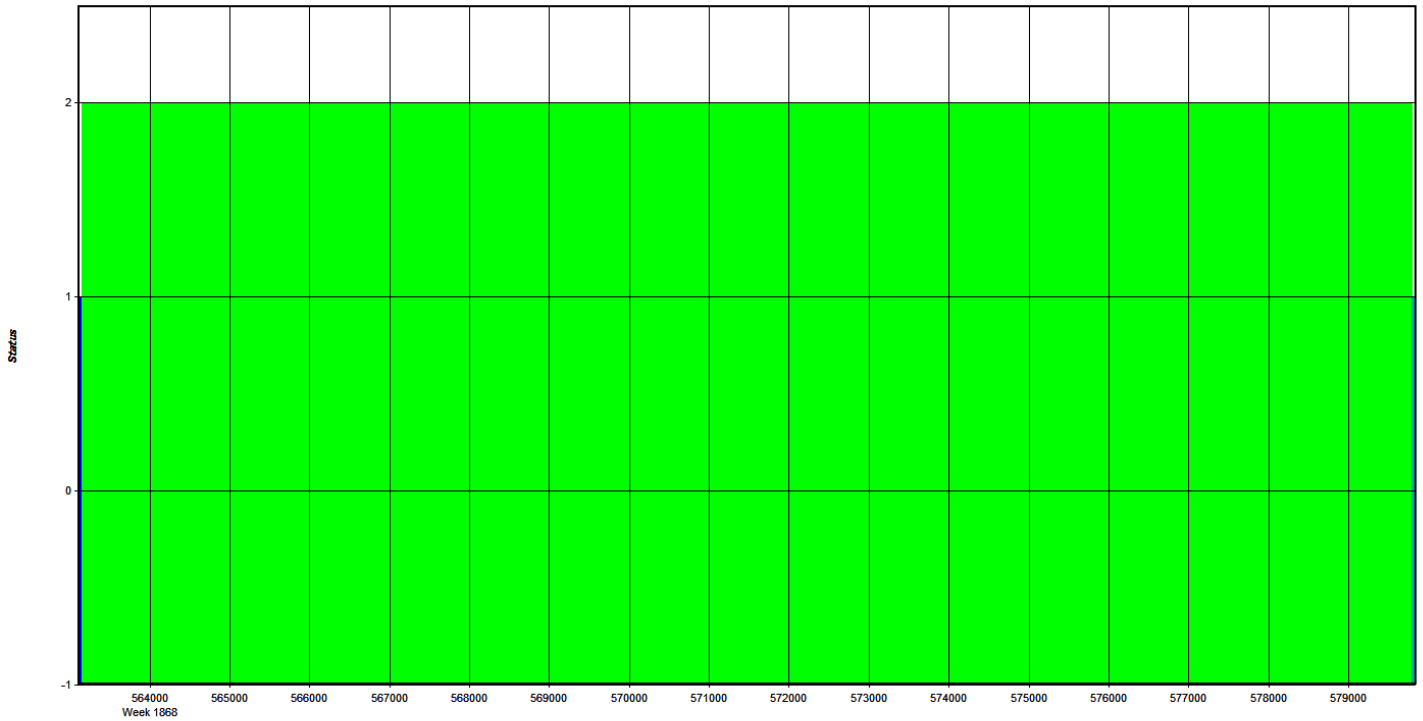












GPS Time (TOW, GMT zone)
 - Float - Forward Fixed - Reverse Fixed - Fixed (2 or more)

Coordinate/Antenna Settings

Master Remote

Base Station
 3: BARN Name: BARN Disabled
 File: F:\26818_USGS_CT_River\WNMK\26818_USGS_CT_River_BER

Coordinates
 Latitude: North 44 05 56.68362 Compute from PPP
 Longitude: West 71 09 34.39925 Enter Grid Values
 Ellipsoidal height: 140.793 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

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

Master Remote

Base Station
 1: VTD7 Name: VTD7 Disabled
 File: F:\26818_USGS_CT_River\WNMK\26818_USGS_CT_River_BER

Coordinates
 Latitude: North 44 23 52.31066 Compute from PPP
 Longitude: West 72 01 32.39267 Enter Grid Values
 Ellipsoidal height: 166.528 m Enter MSL Height
 Datum: NAD83(2011) 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

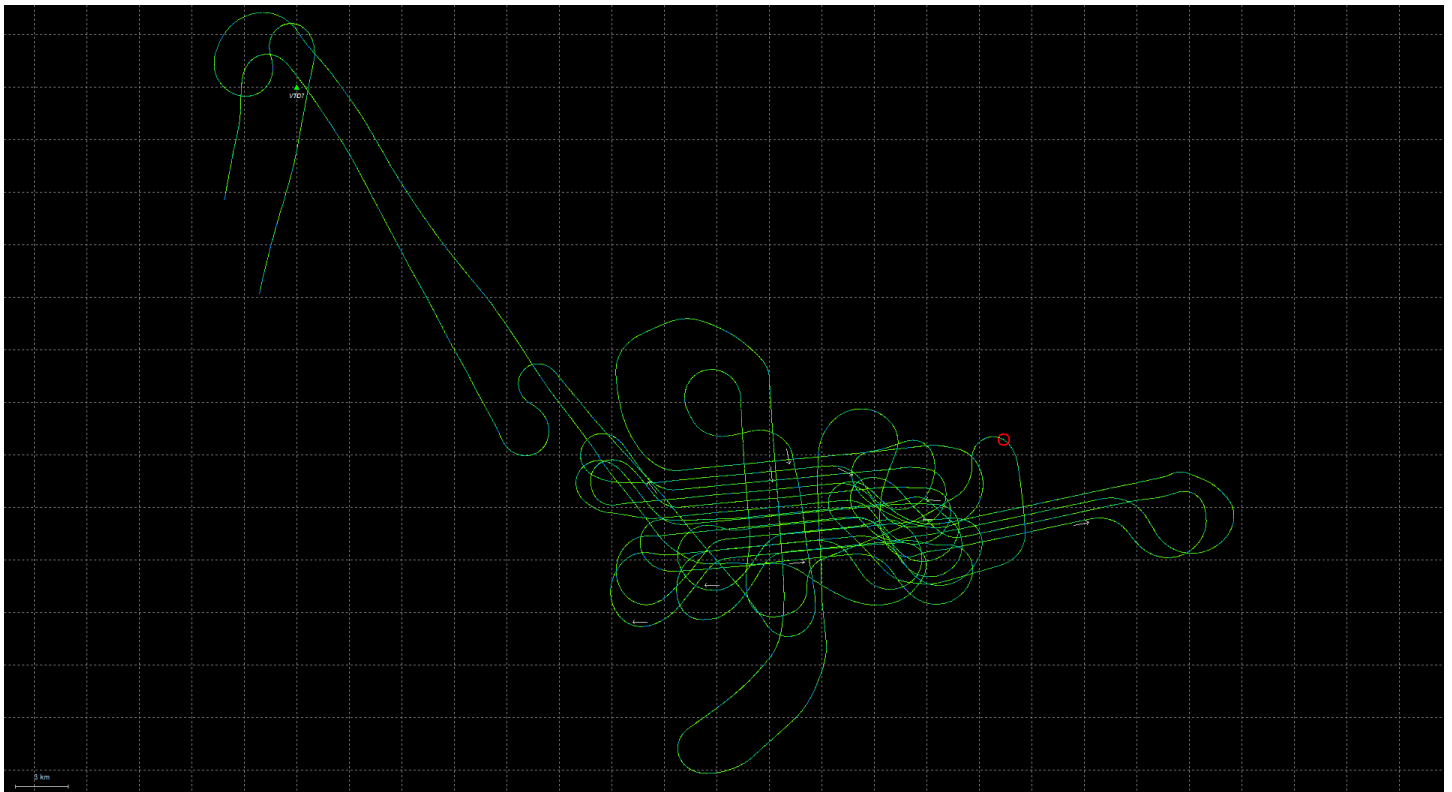
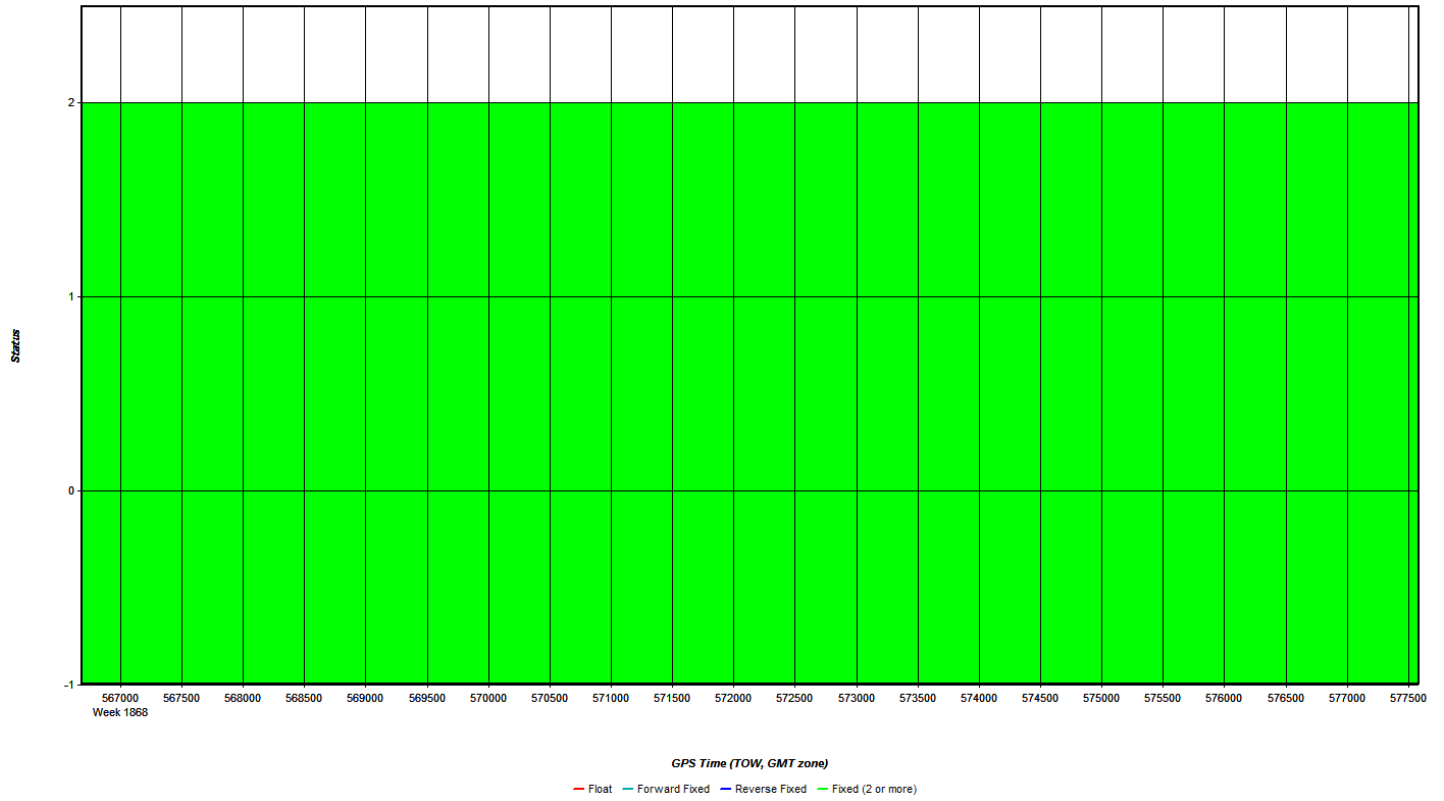
Base Station
 2: VTIP Name: VTIP Disabled
 File: F:\26818_USGS_CT_River\WNMK\26818_USGS_CT_River_BER

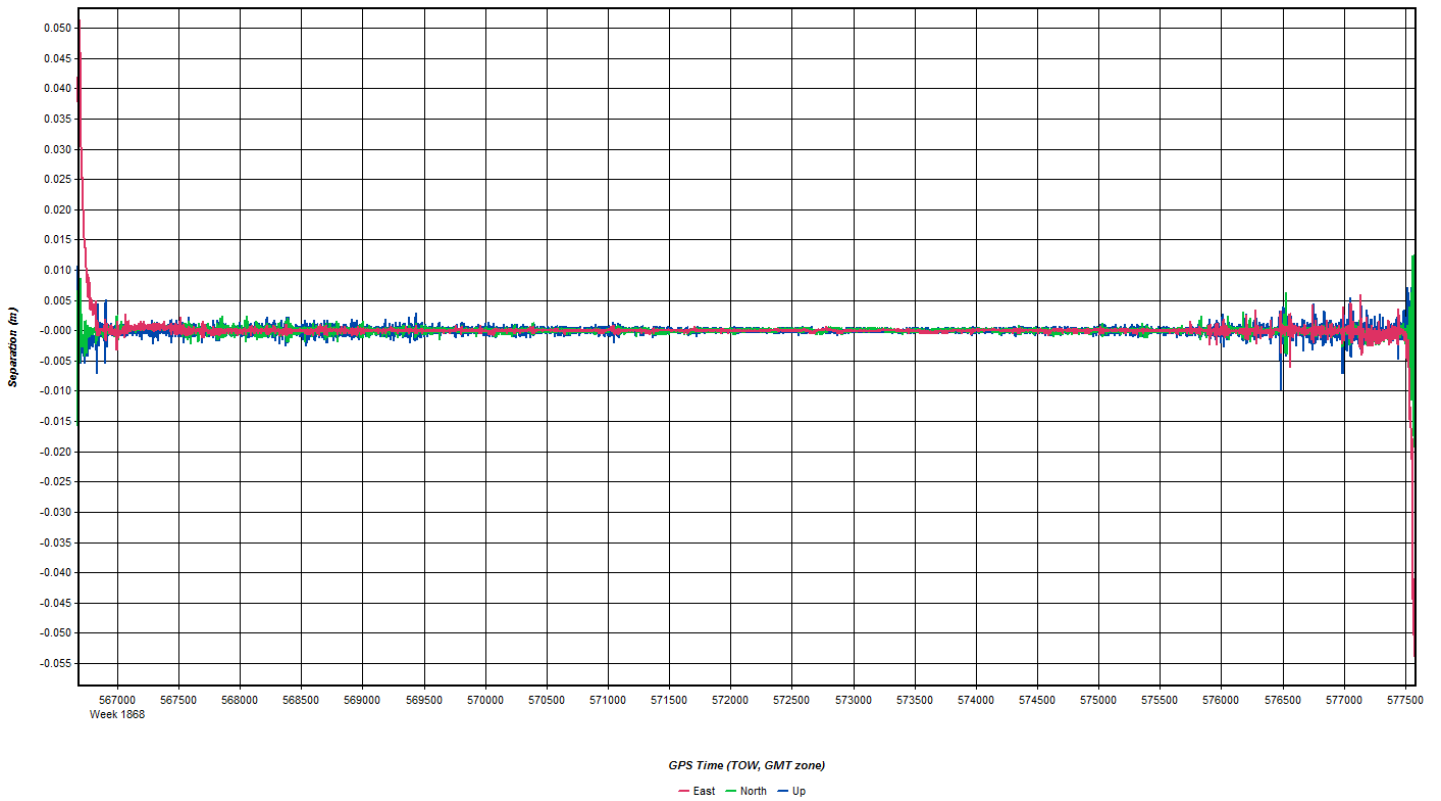
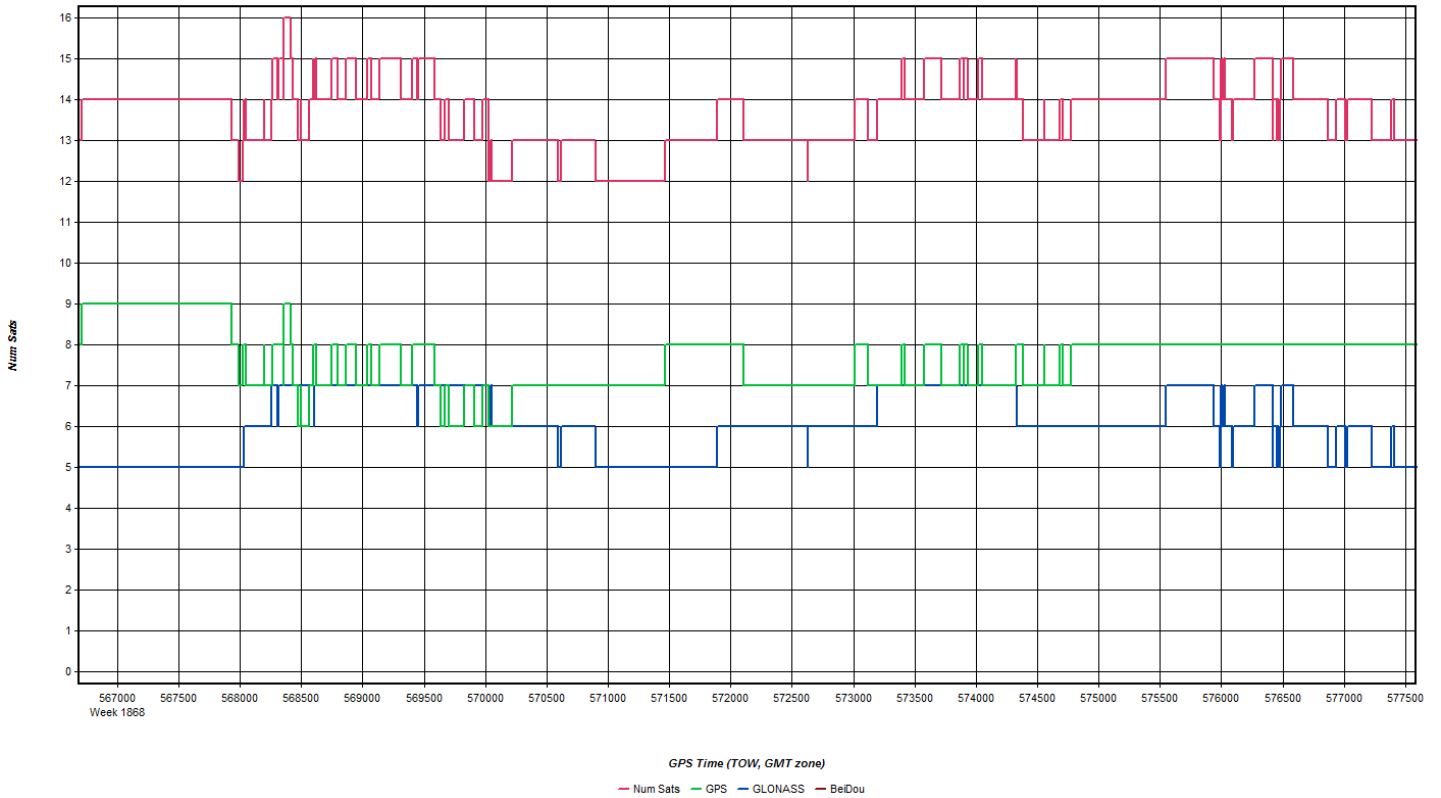
Coordinates
 Latitude: North 44 49 12.18043 Compute from PPP
 Longitude: West 71 53 25.83872 Enter Grid Values
 Ellipsoidal height: 341.732 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

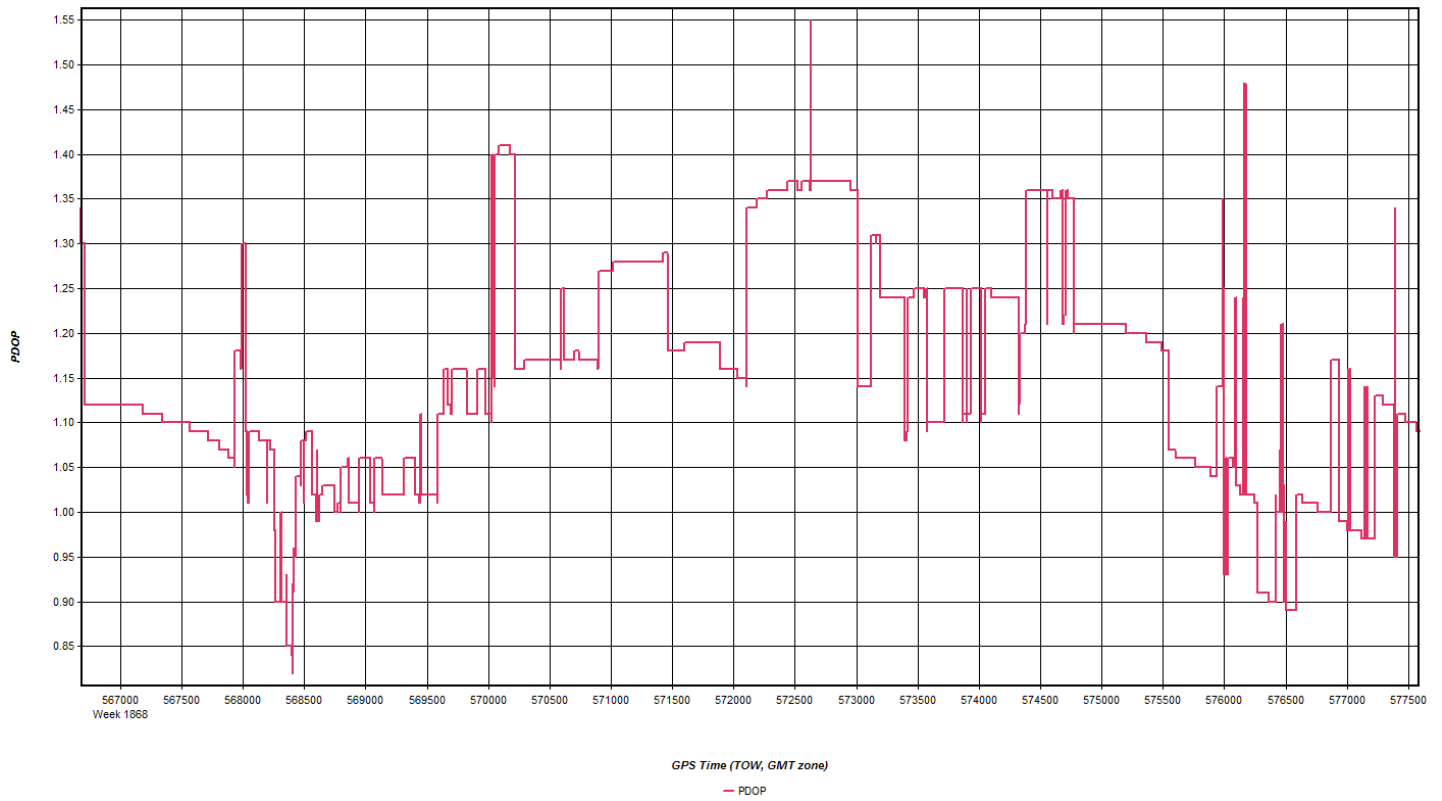
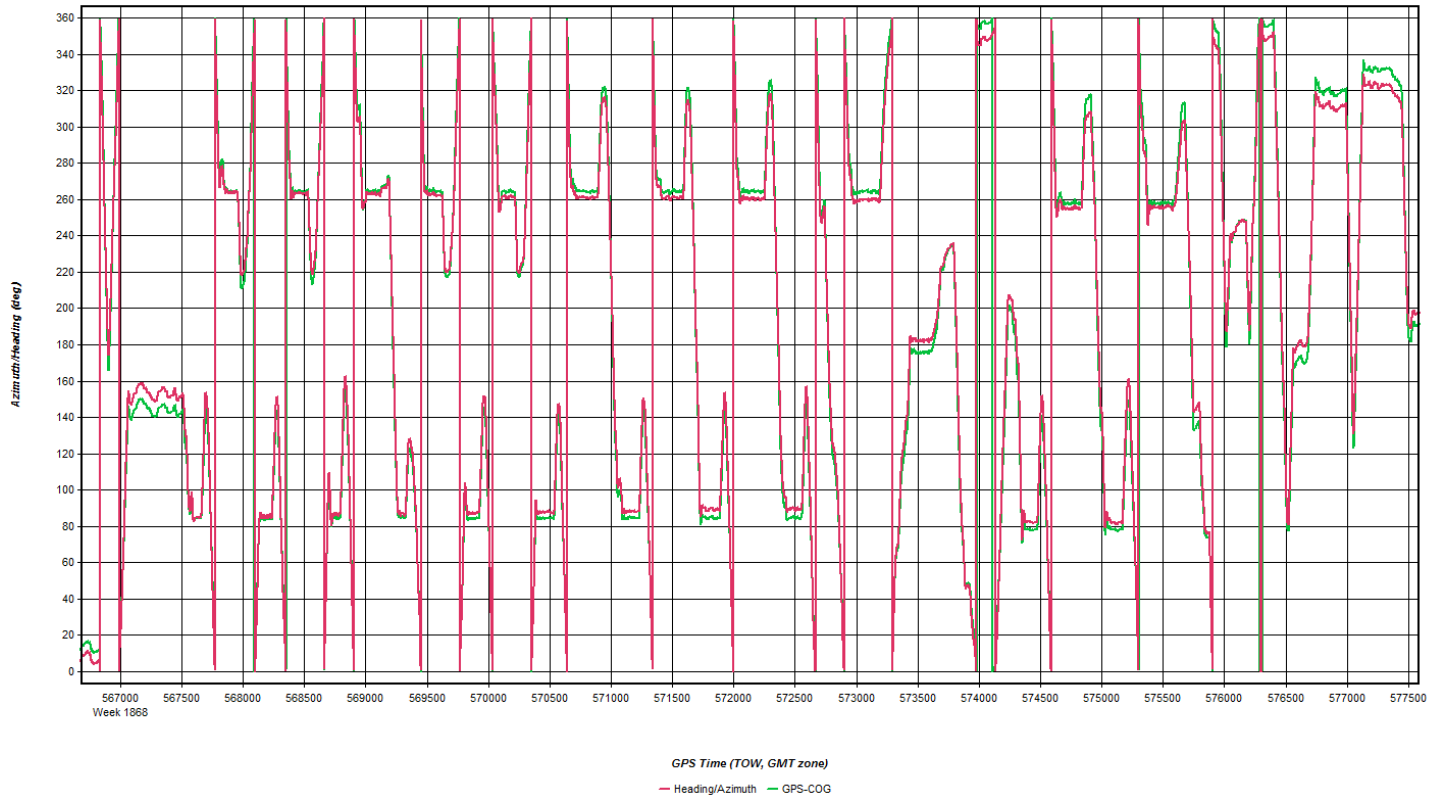
Antenna Height
 From station file: TRM55971.00, NONE View STA File
 Antenna profile: TRM55971.00 Info
 Measured height: 0.000 m
 ARP to L1 offset: 0.067 m
 Applied height: 0.067 m
 Measured to:
 ARP
 L1 Phase Centre
 Compute From Slant

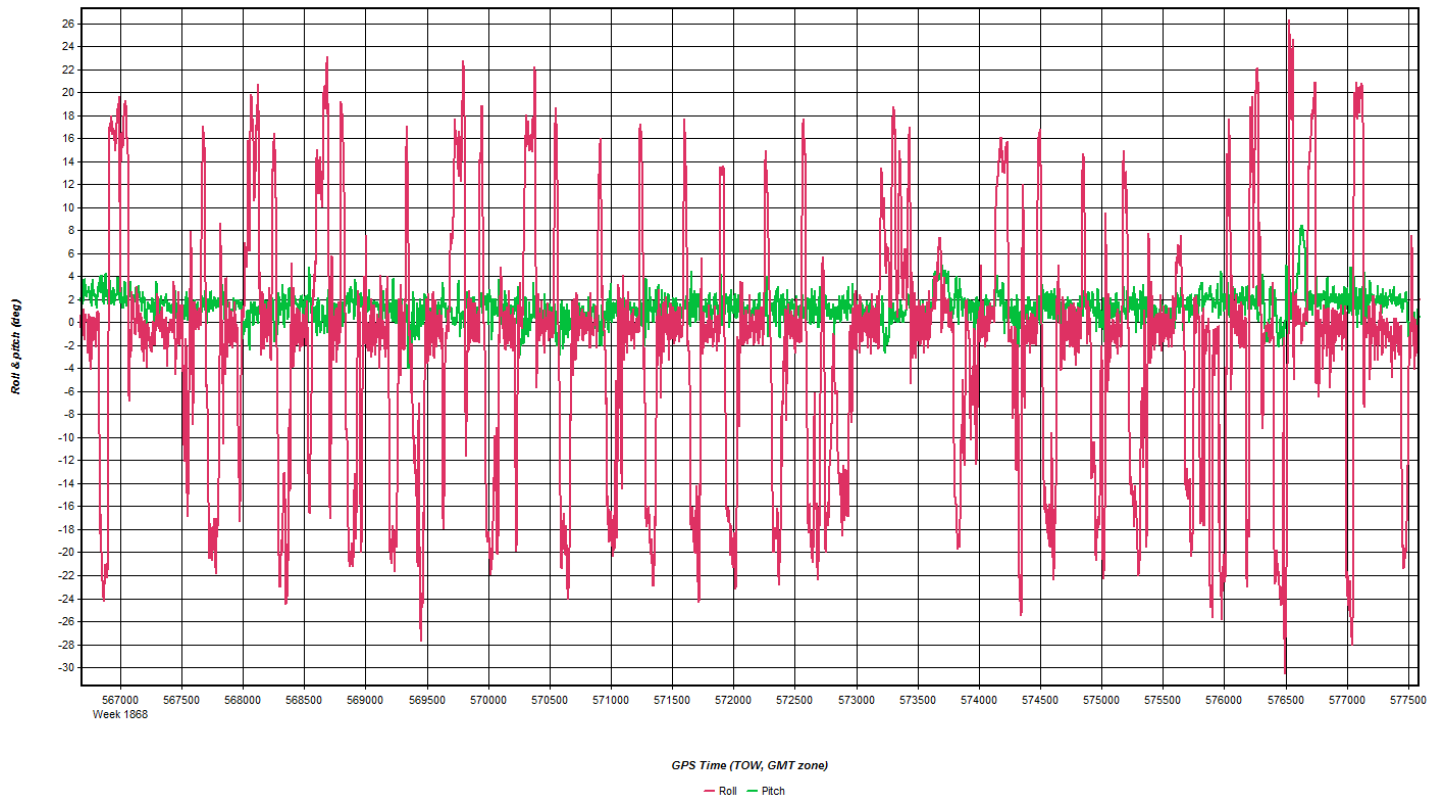
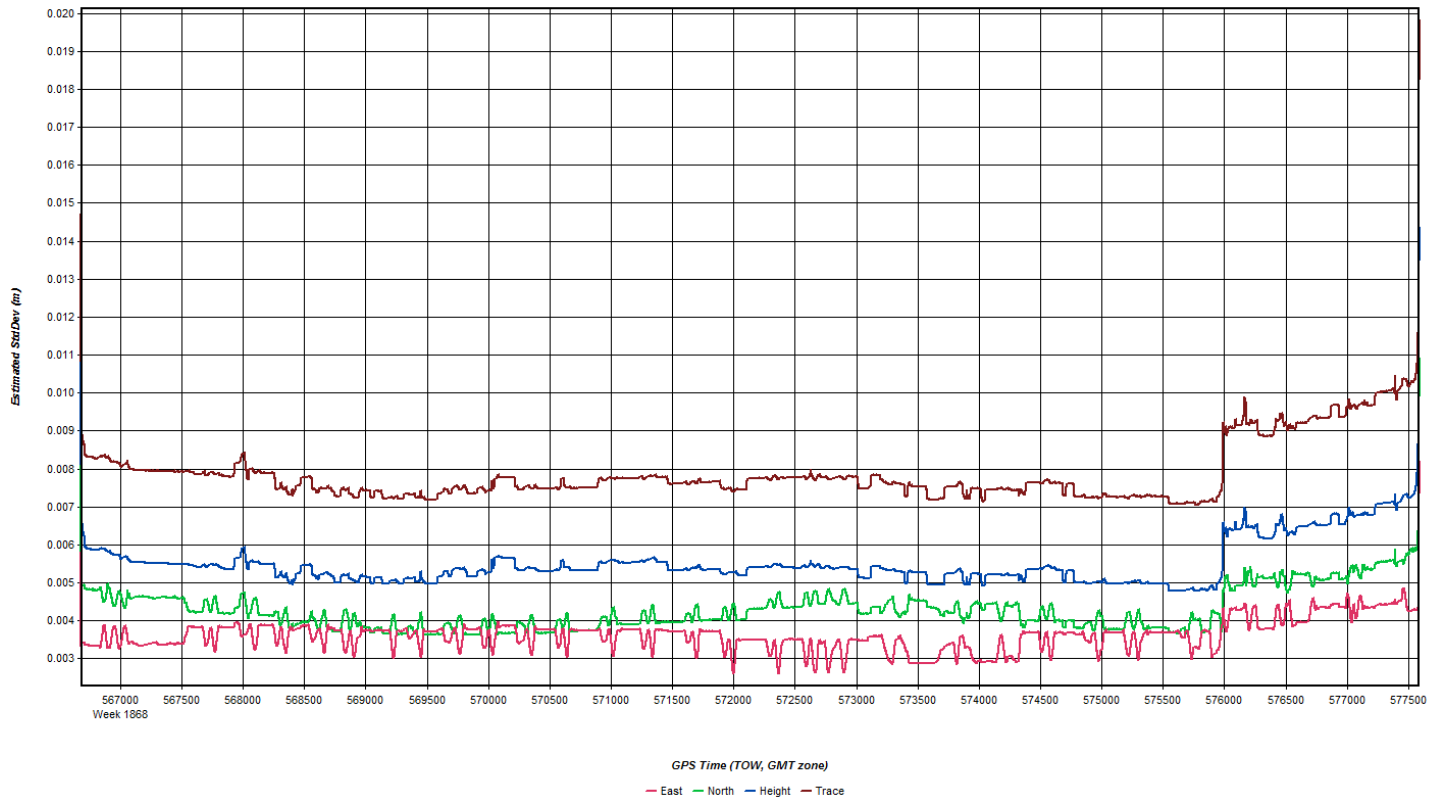
OK Cancel

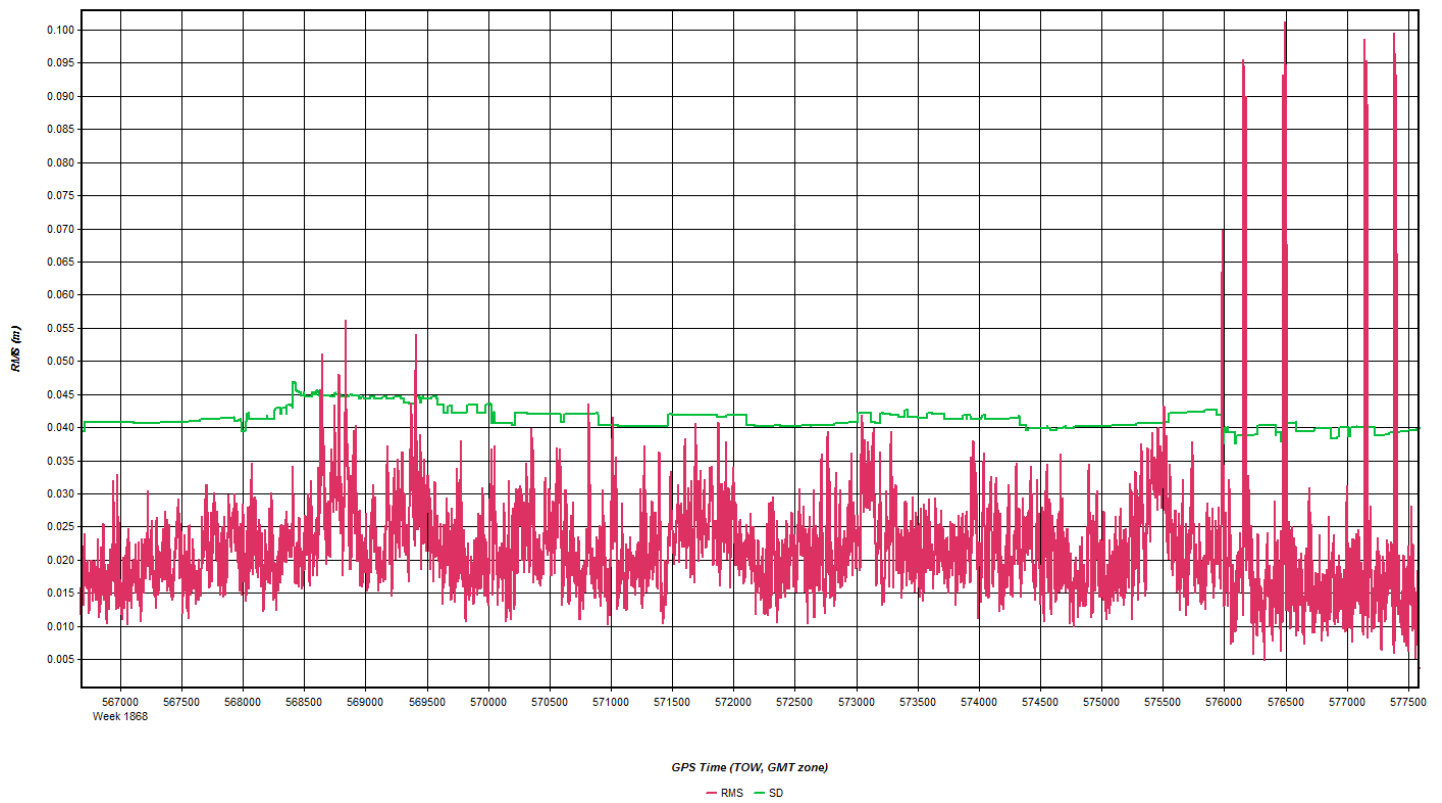
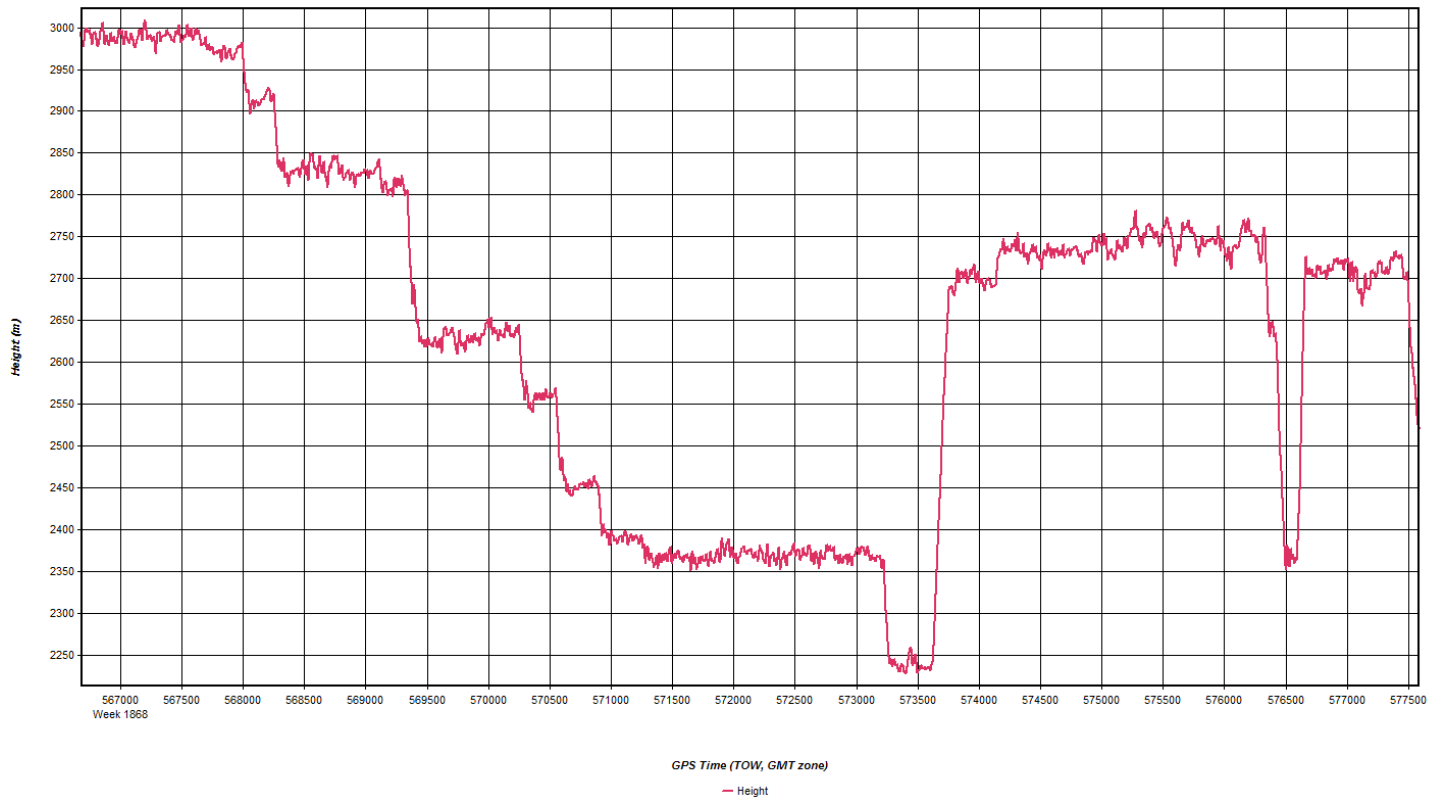
Oct 31, 2015-A (N22GE, SN7178)

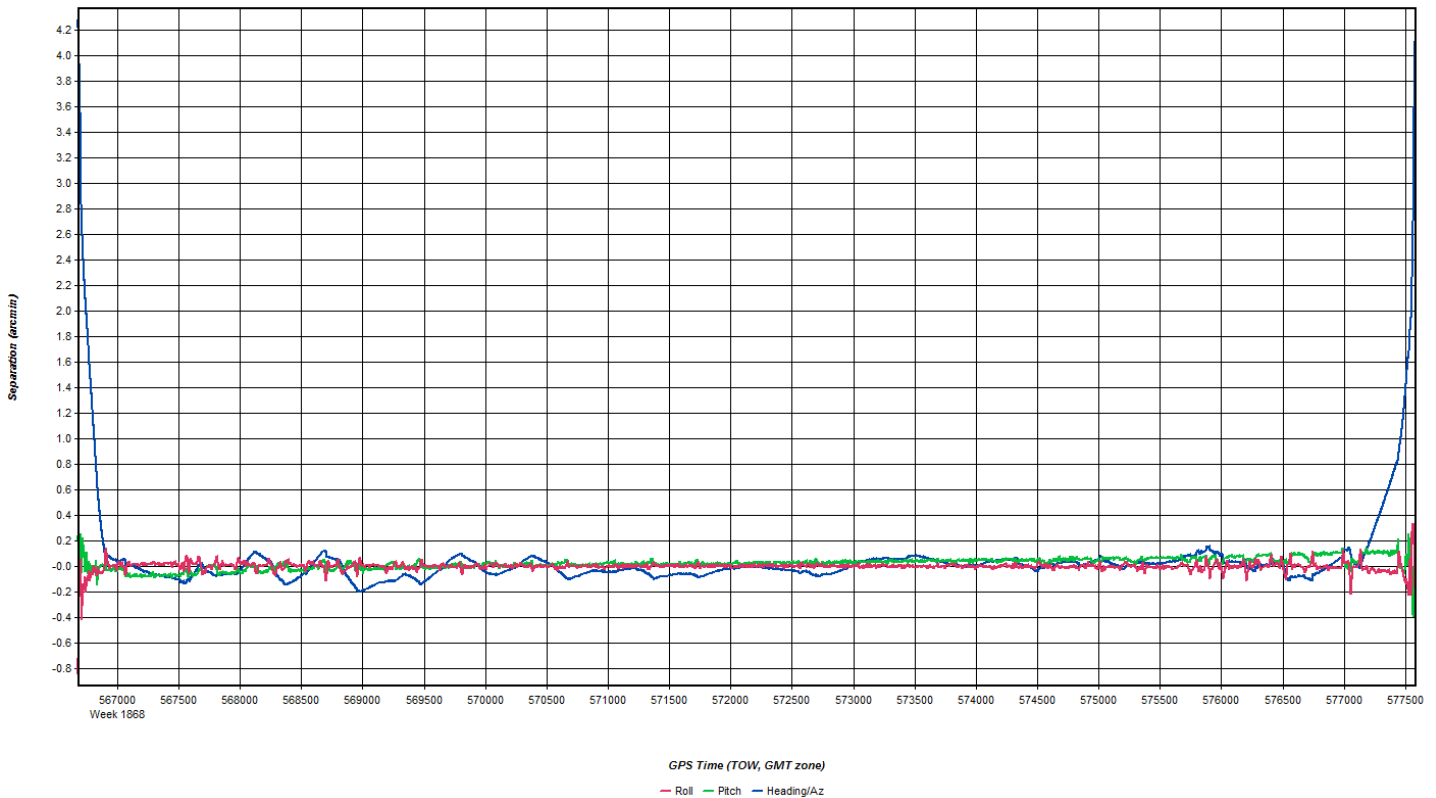












? X

Coordinate/Antenna Settings

Master Remote

Base Station

1: VTD7 Name: VTD7 Disabled

File: E:\26818_USGS_CT_River\9213\20151031_F1_USGS_CT_Rive

Coordinates

Latitude: North 44 23 52.31066

Longitude: West 72 01 32.39267

Ellipsoidal height: 166.528 m

Datum: WGS84

Antenna Height

From station file: TRM55971.00, NONE

Antenna profile: TRM55971.00

Measured height: 0.000 m

ARP to L1 offset: 0.067 m

Applied height: 0.067 m

Measured to

ARP

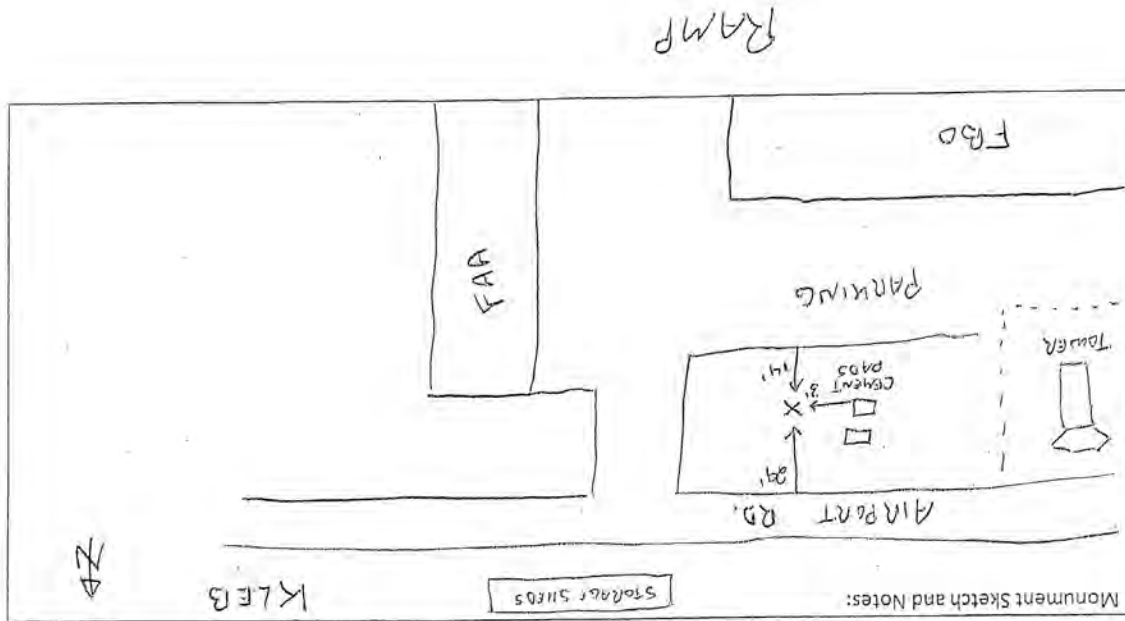
L1 Phase Centre

Flight Log

YYYYMMDD_TIME(GPS)				OPERATORS FLIGHT LOG						UTM_ZONE 18			
MISSION: 2015312015_114330				DATE: 10/31/2015				LEICA ALS-70					
PILOT: WILL SMELSER			OPERATOR: PETER TISCHANNEN				AIRCRAFT: N22GE		SENSOR: 7178				
PROJECT NUMBER AND NAME	LINE			GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (m)	TIME		MM70 DRIVE	REMARKS
	No.	Lbl	Hdg							START	STOP		
26818										130354	141000	3502	LOW FOG AROUND 7:30 AM
USGS CT RIVER	731	8111		154	50	28°	273	255	9813	134004	134041		WAITED AT FBO TILL CLEAR
	730	8110		123					9752	134447			
	729	8109		158					9600	134735	135013		H ₂ O AT WEST END
	728	8108		130					9280	135124	136510		
	727	8107		163					9300	135855	140000		
	726	8106		125					9274	140341	140430		HEAD WIND / POSSIBLE H ₂ O
	743	8123		161					9208	140810	140825		
	742	8122		133					8607	141223	141324		H ₂ O
	741	8121		155					8640	141721	141724		
	740	8120		127					8654	142211	142210		
	739	8119		100					8792	142701	142830		
	738	8118		122					8033	143225	143430		
	737	8117		145					7860	143817	144008		
	736	8116	268	123					7790	144357	144430		
	735	8115	081	152					7744	144722	145107		
	734	8114	265	124					7748	145301			
	733	8113	082	153					7780	150039	150218		
	732	8112	261	124	✓	✓	✓	✓	7774	151051	151248		
STATUS	TOTAL LINES	FLOWN	LEFT	AIRCRAFT		STATIC	BASE START	BASE STOP	NOTES				
○ 26818	135						113000	173000	START CORP: 132650 ELEV: 8:133056 FINISH CORP: 162348 ELEV: 161622				
○									WX				
○													



Base Station Log



Height Readings: (Top of Monument to Bottom of Ground Plane)

Start	2.009 M.	3.2 Ft.
Stop	2.004 M.	3.2 Ft.
Mean	2.009 M.	3.2 Ft.

Date: 10 / 31 / 2015

Julian Date: 304

Start Time: 11:30:00

Stop Time: 17:30:00

Rcvr. File Name: 00083041.PDC

Observer: PETER TSCHAMMEN

New or Existing Mon. New Existing

Photo Taken: Yes No

Monument Type: METAL

Other: Spike PK Nail AM Washer

Project Name: USGS CT RIVER

Rcvr. Type: Novatel DL-V3-L112

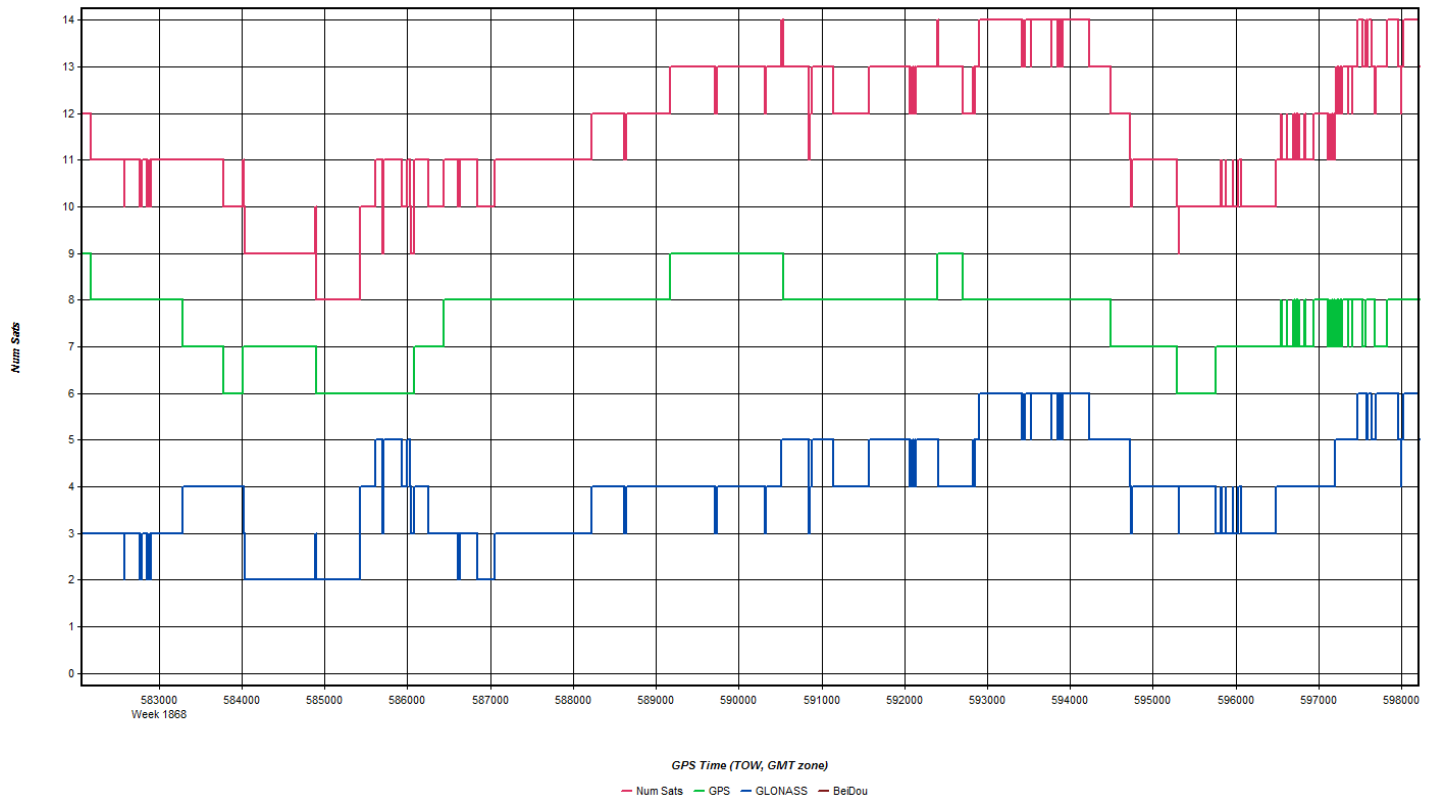
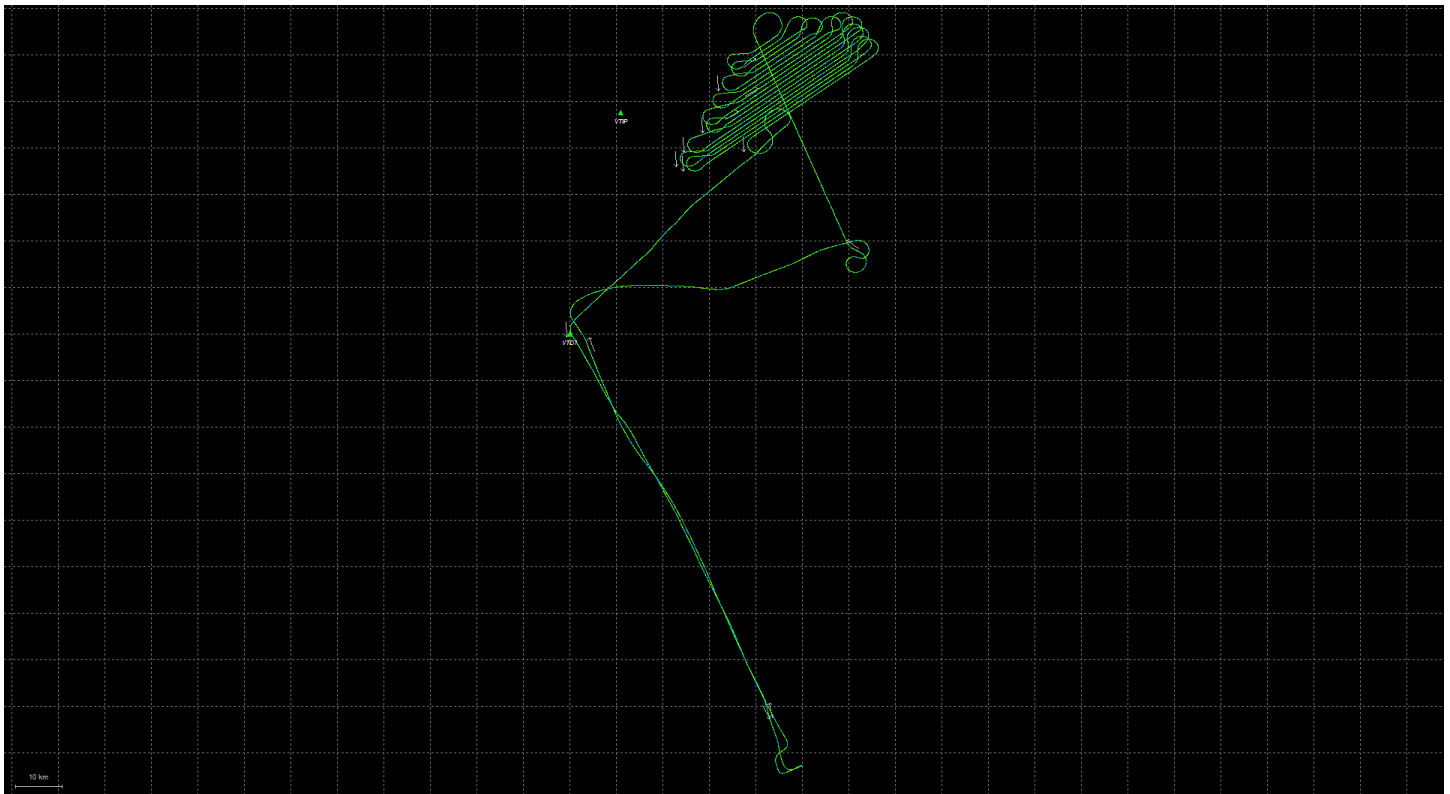
Rcvr. S/N: 7-0141418

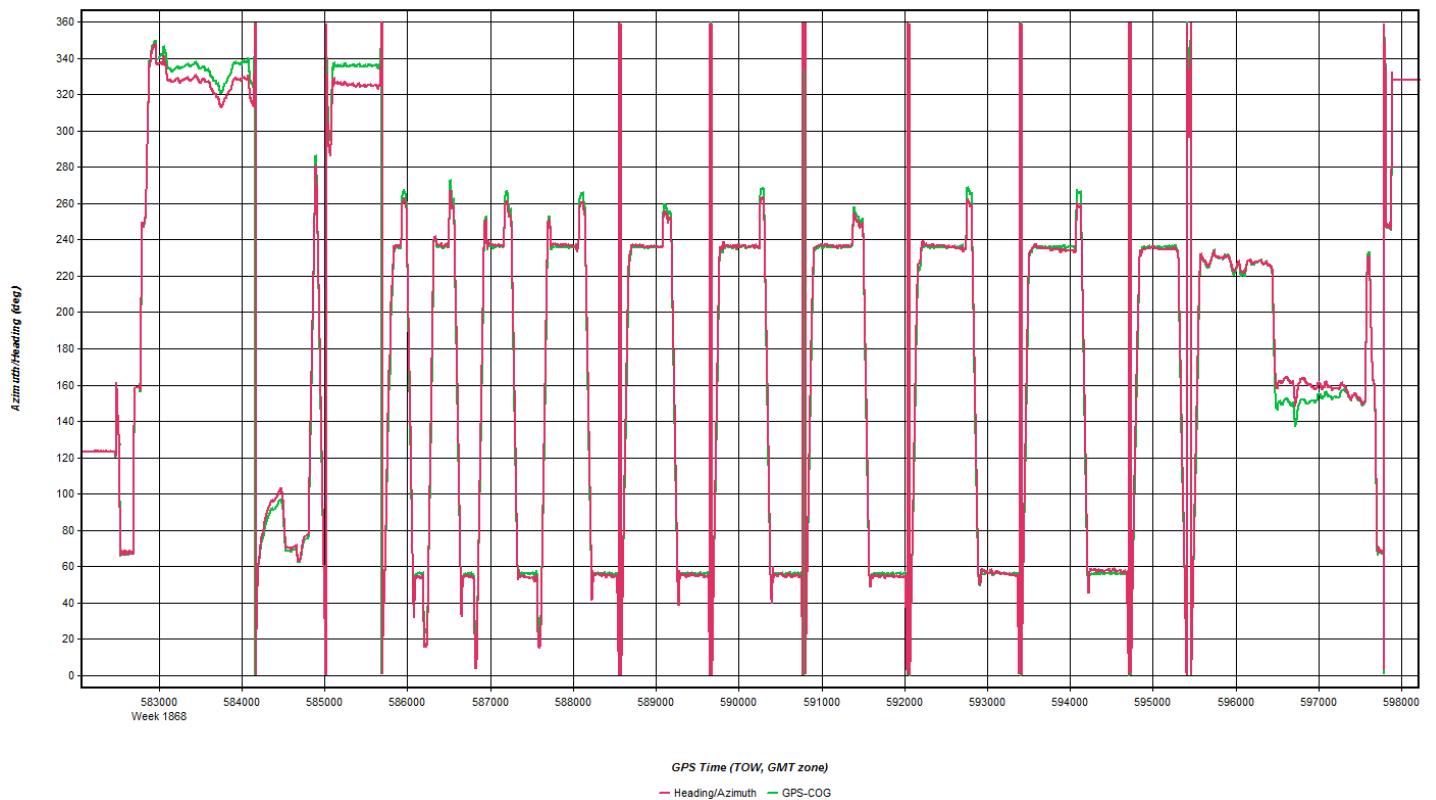
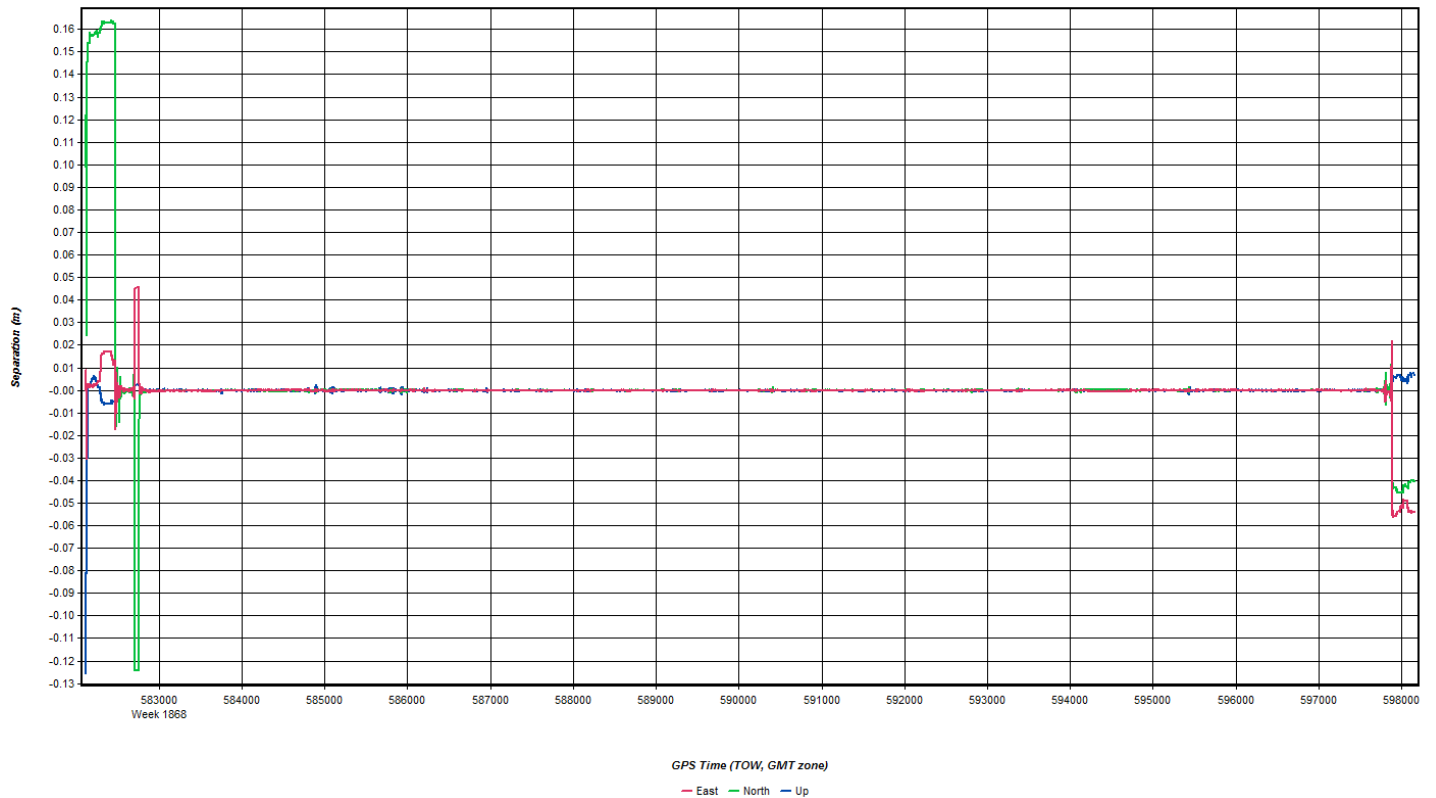
Antenna Type: Novatel

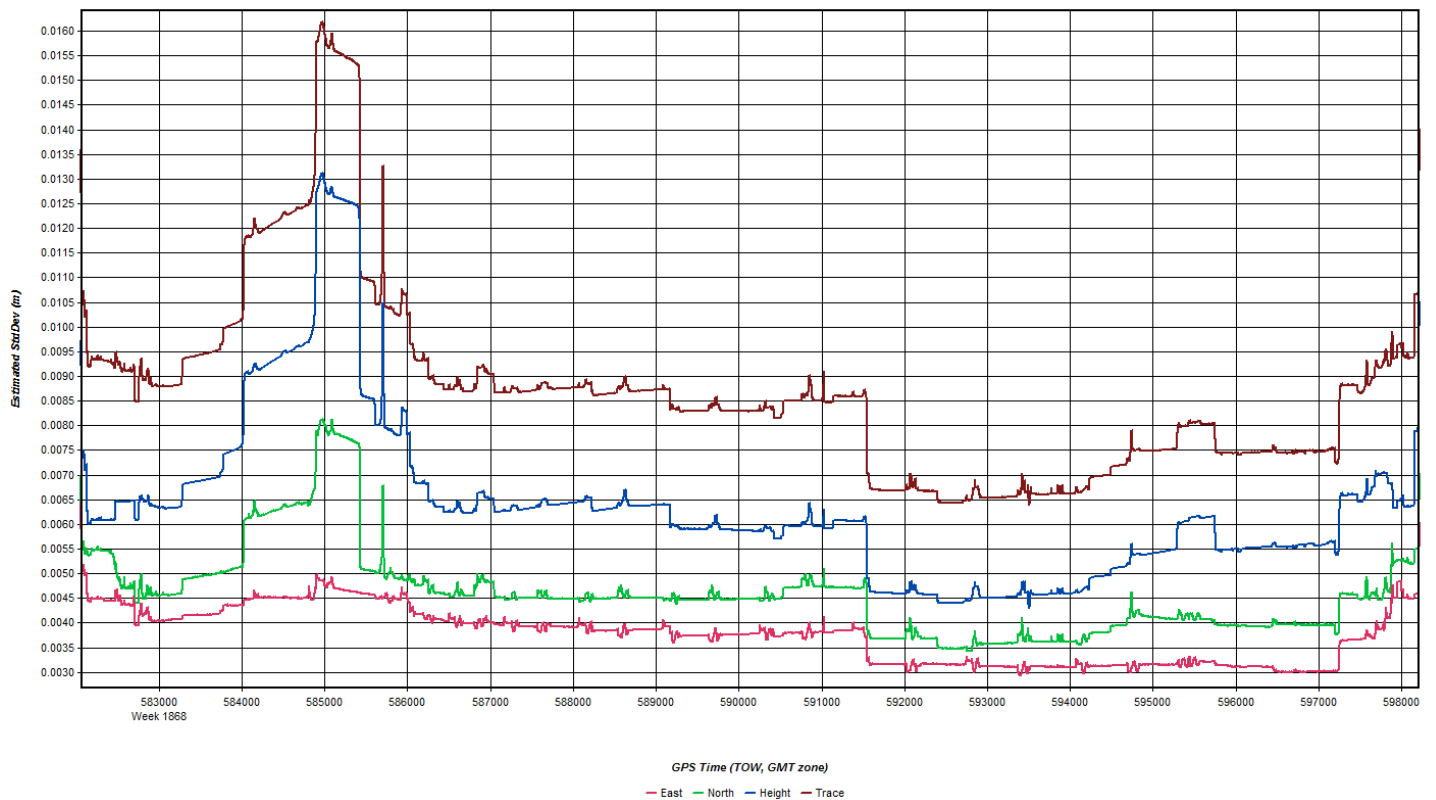
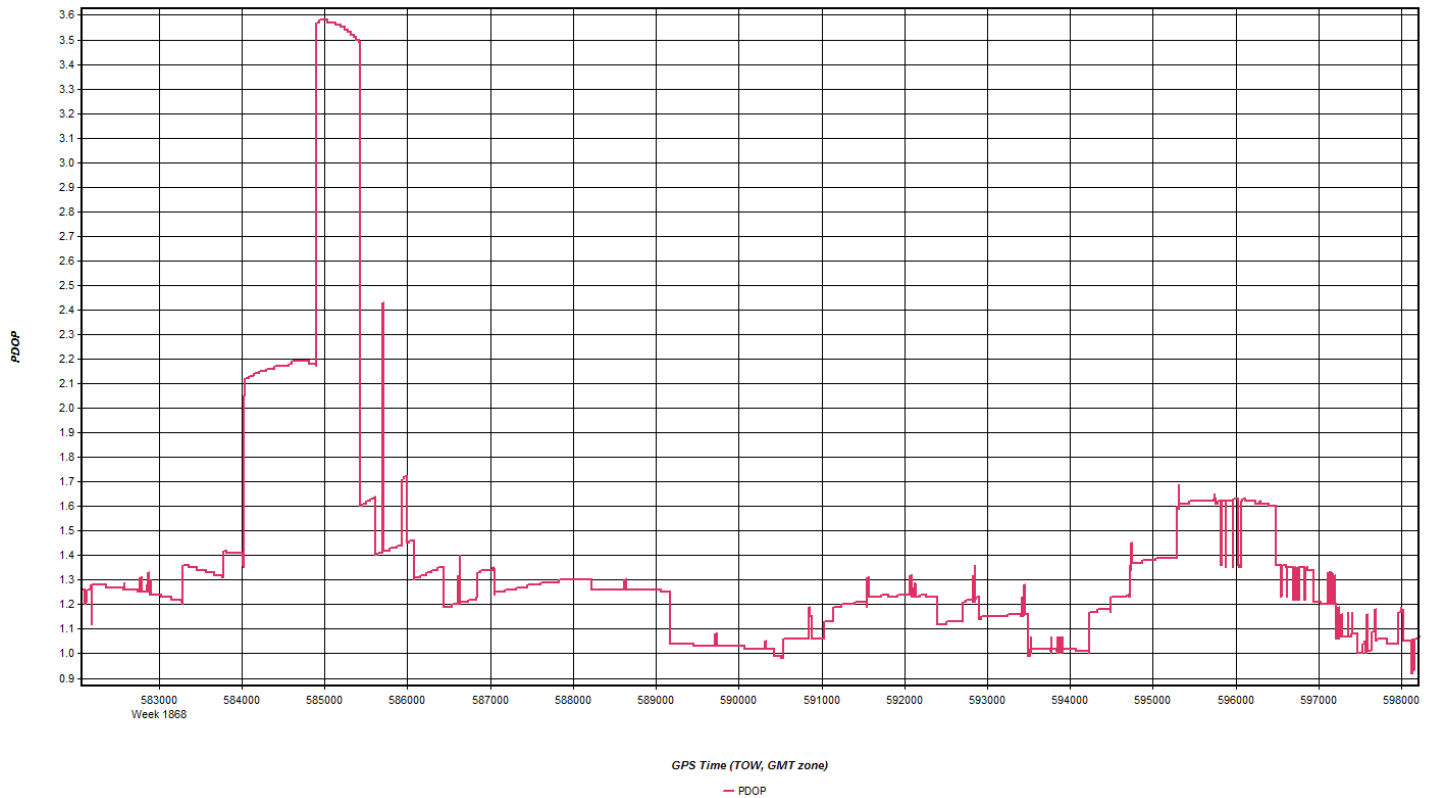
Antenna S/N: NAB12110035

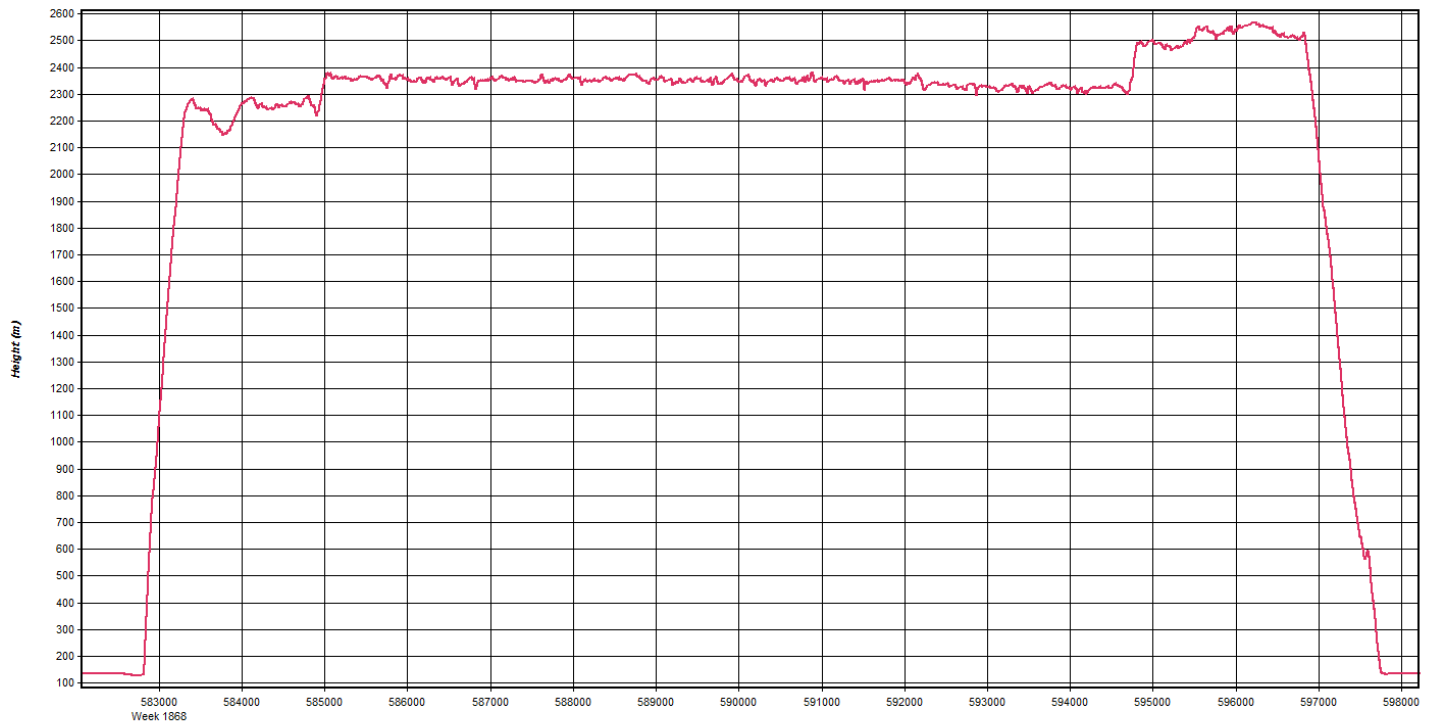
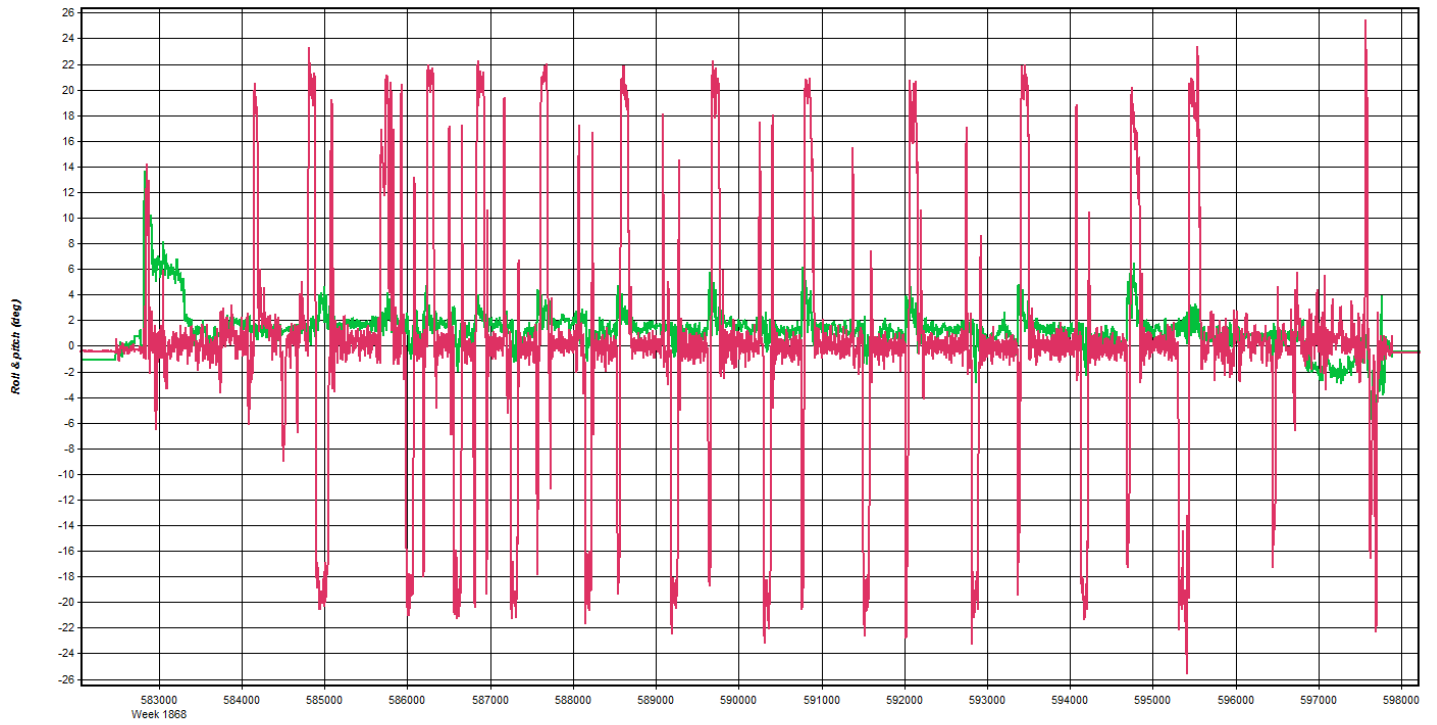
GPS OBSERVATION LOG

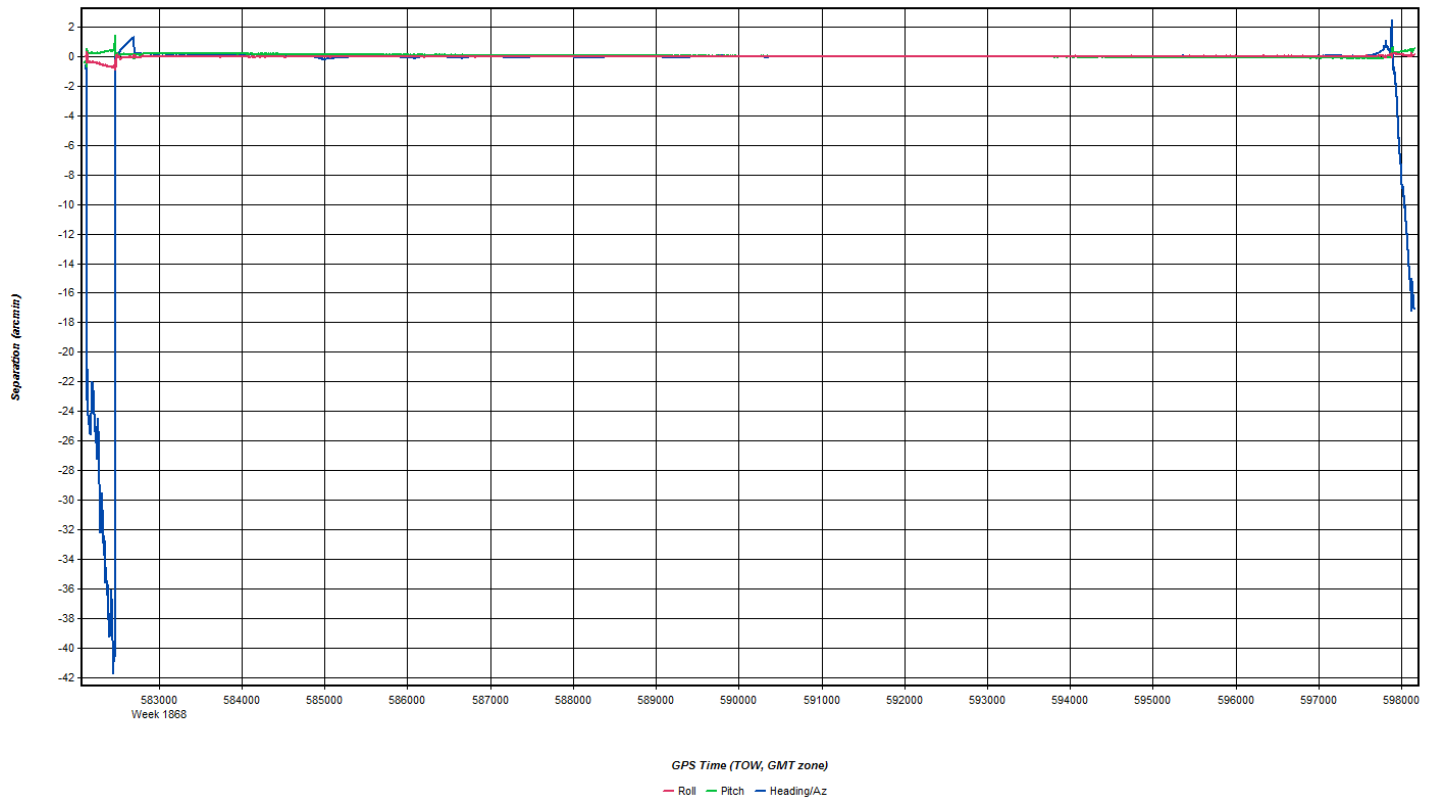
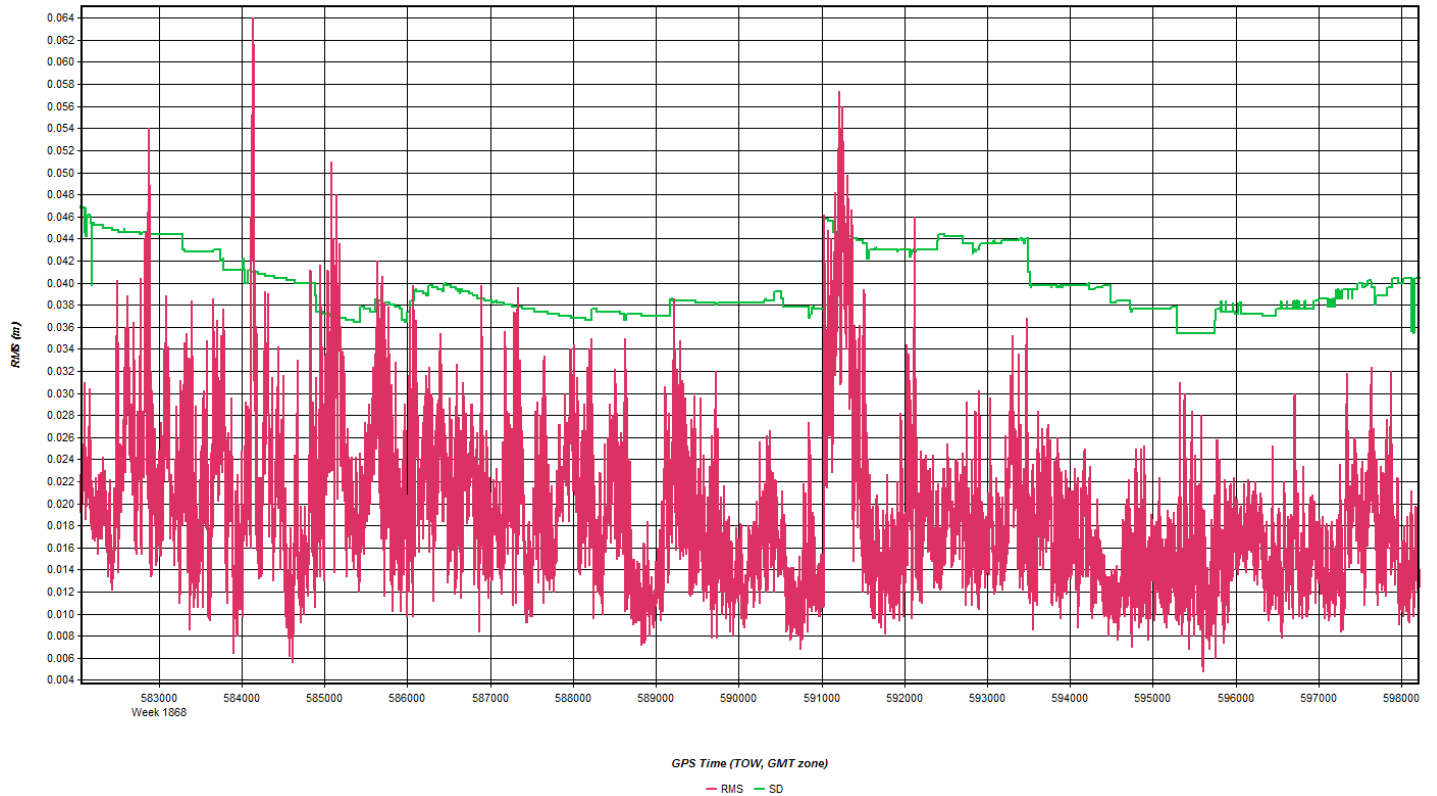
Oct 31, 2015-B (N6GR, SN7161)

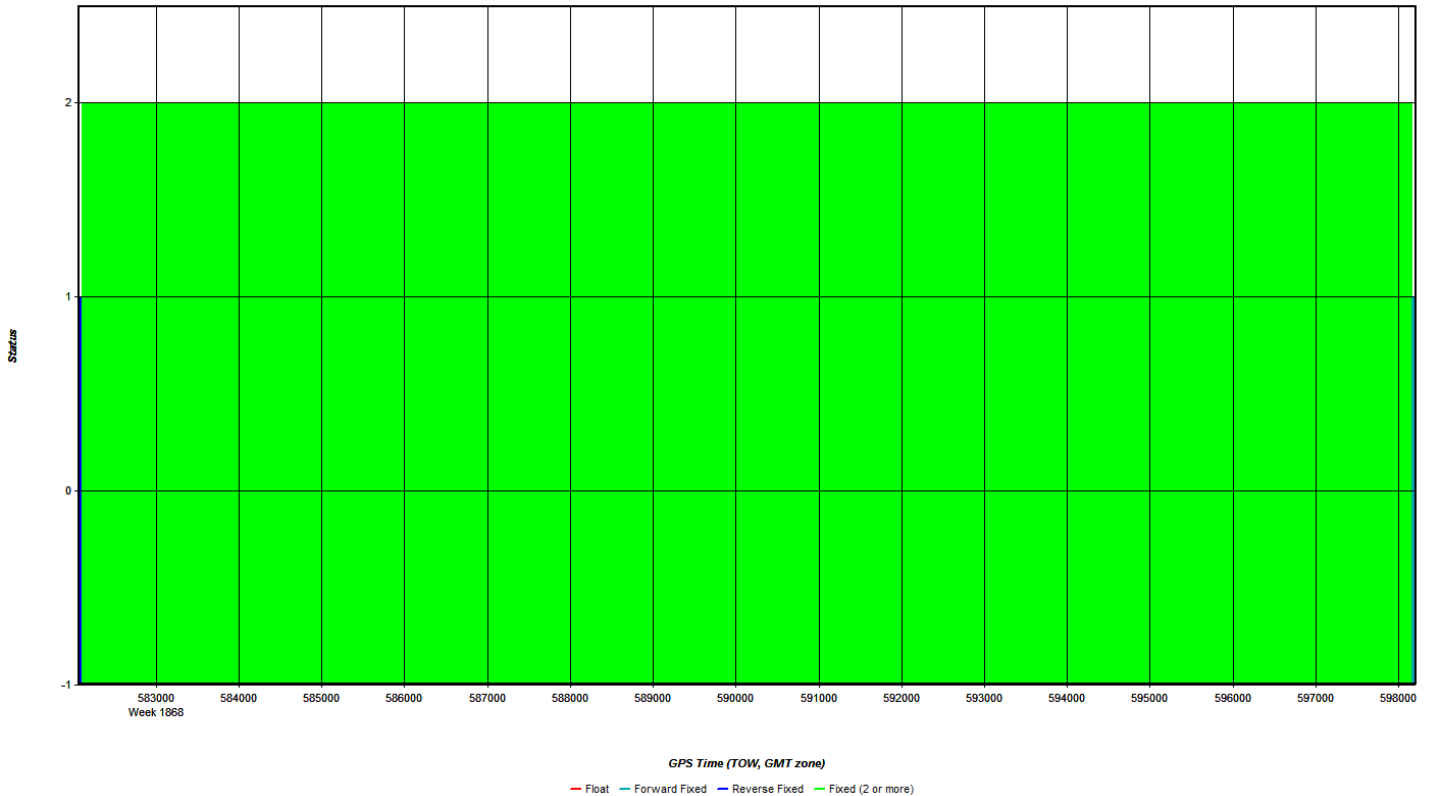












Coordinate/Antenna Settings

Master Remote

Base Station
 1: VTD7 Name: VTD7 Disabled
 File: F:\26818_USGS_CT_River\WNMK\26818_USGS_CT_River_BER

Coordinates
 Latitude: North 44 23 52.31066 Compute from PPP
 Longitude: West 72 01 32.39267 Enter Grid Values
 Ellipsoidal height: 166.528 m Enter MSL Height
 Datum: NAD83(2011) 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
2: VTIP Name: VTIP Disabled
File: F:\26818_USGS_CT_River\VNMK\26818_USGS_CT_River_BER

Coordinates

Latitude: North 44 49 12.18043 Compute from PPP
Longitude: West 71 53 25.83872 Enter Grid Values
Ellipsoidal height: 341.732 m Enter MSL Height
Datum: NAD83(2011) 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

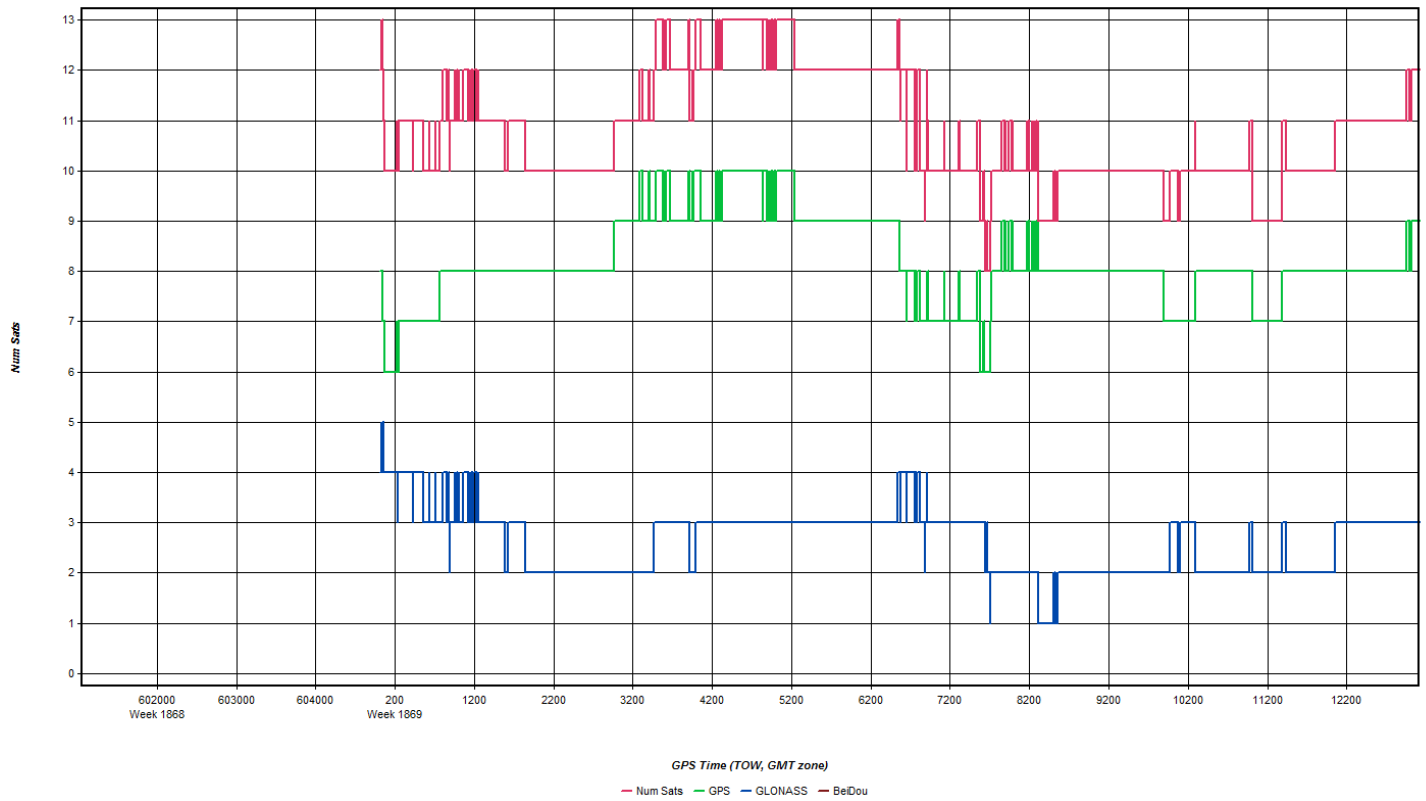
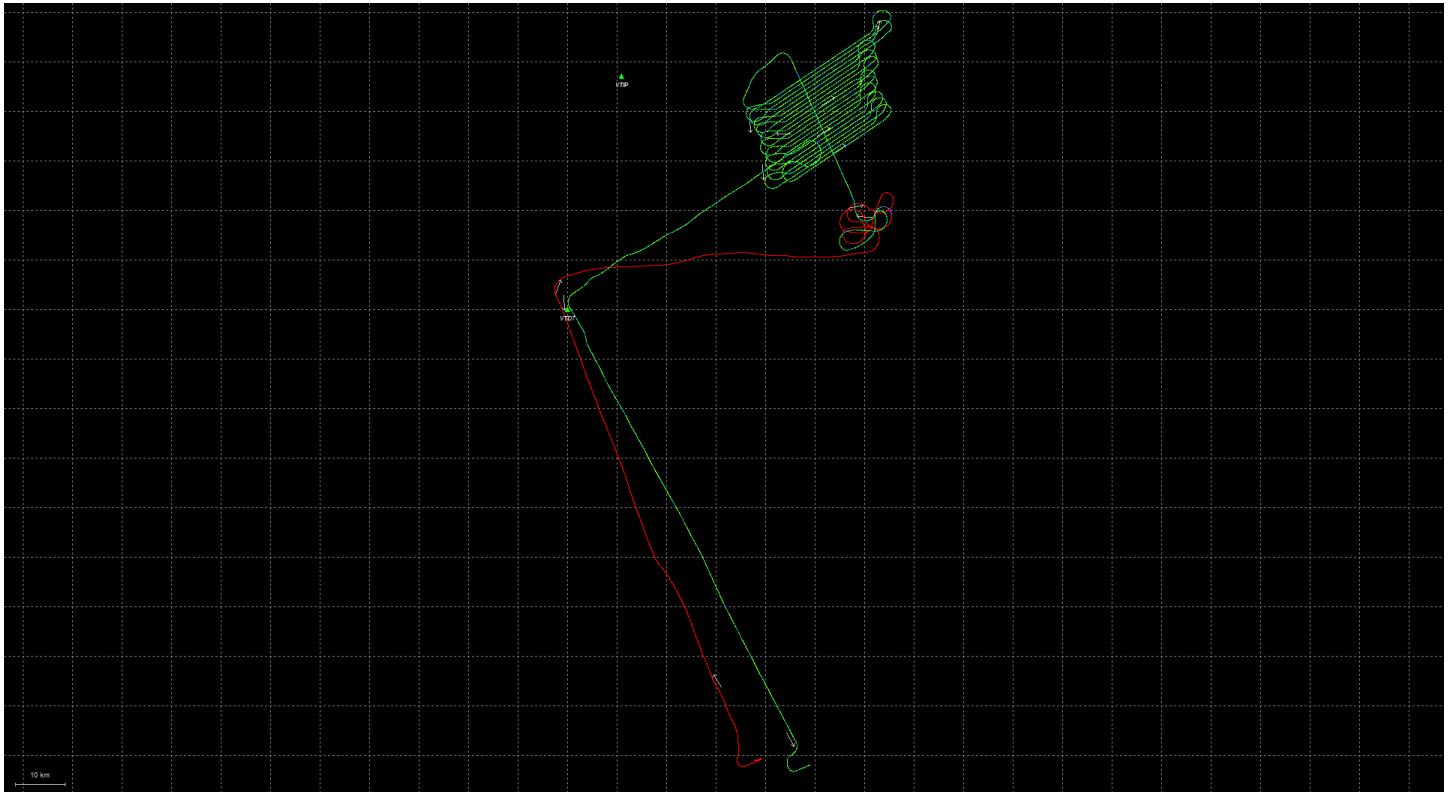
OK Cancel

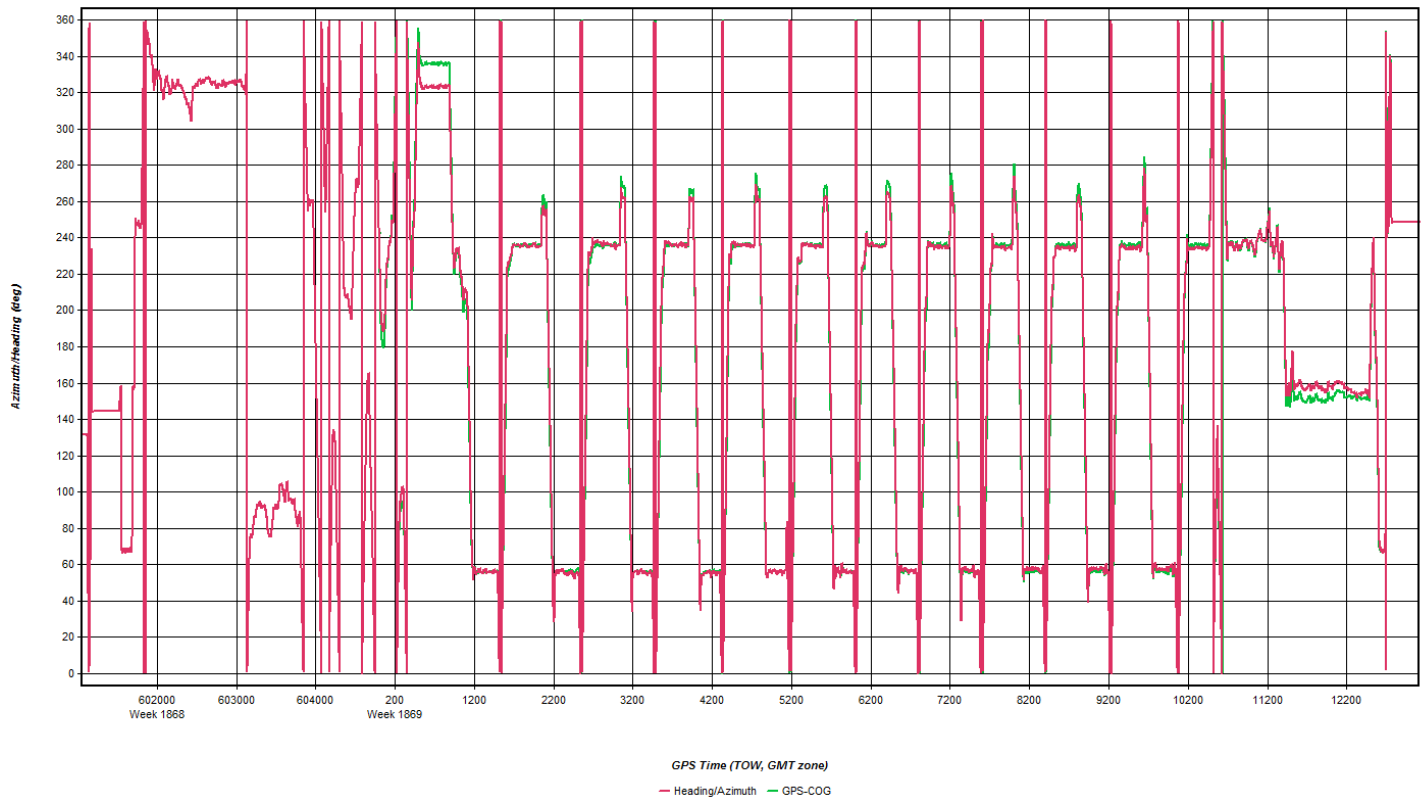
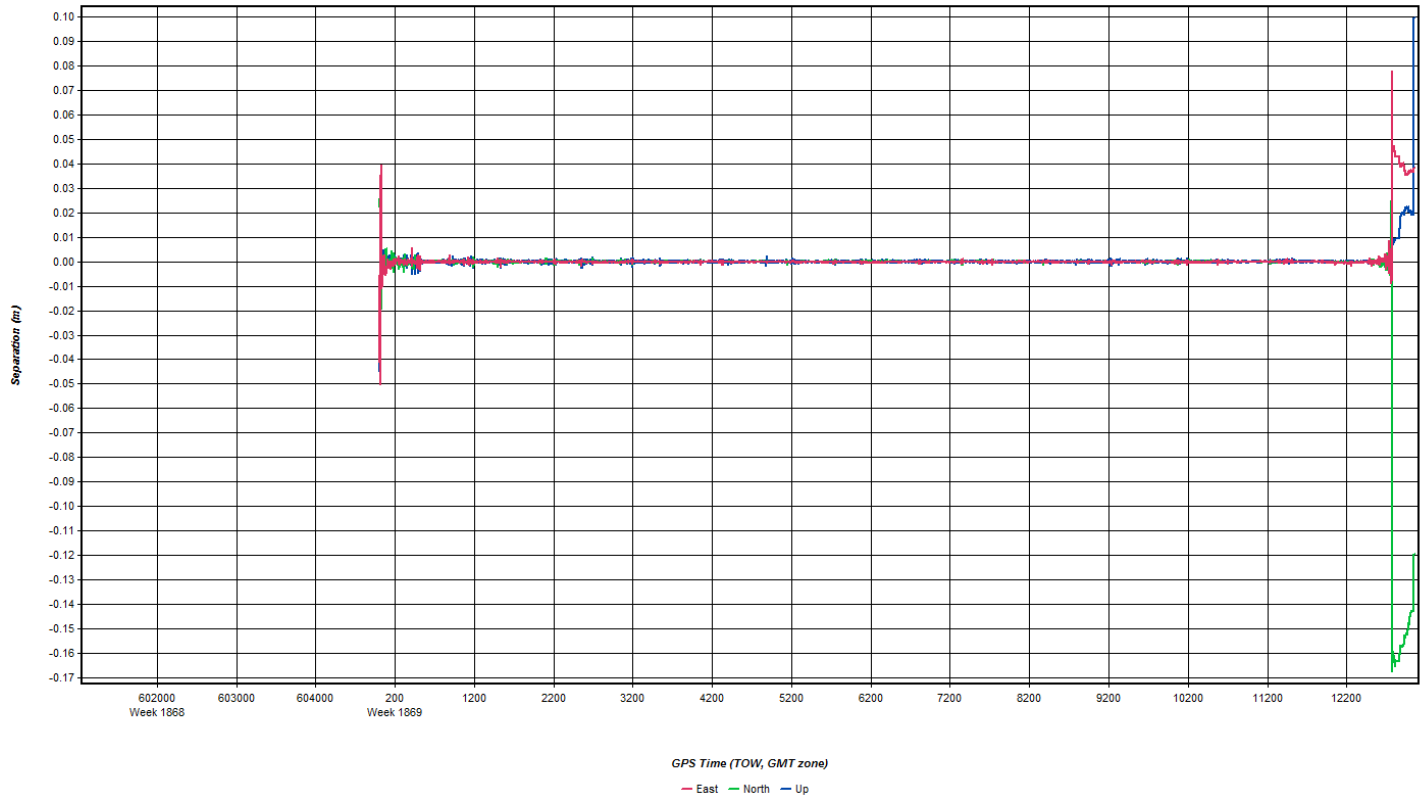
Flight Log

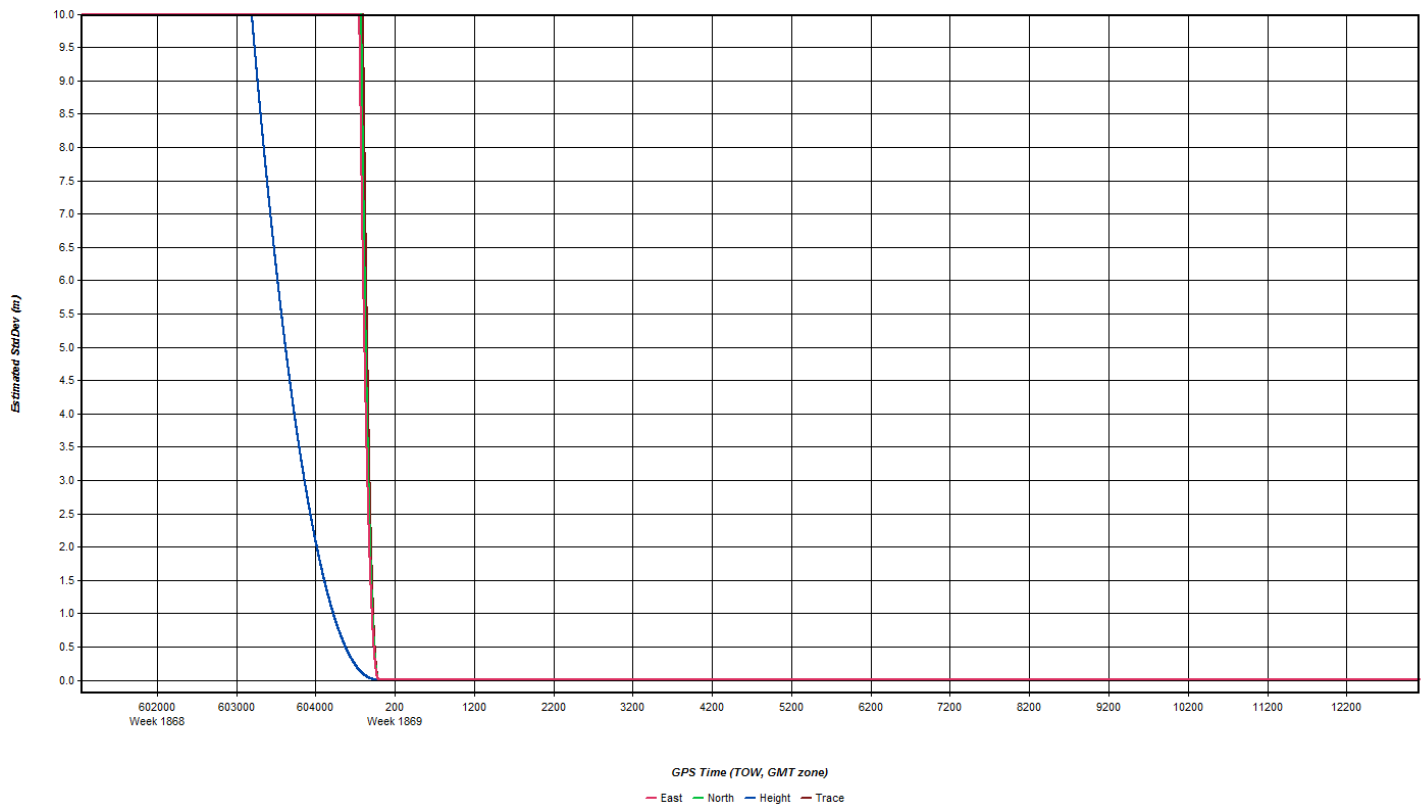
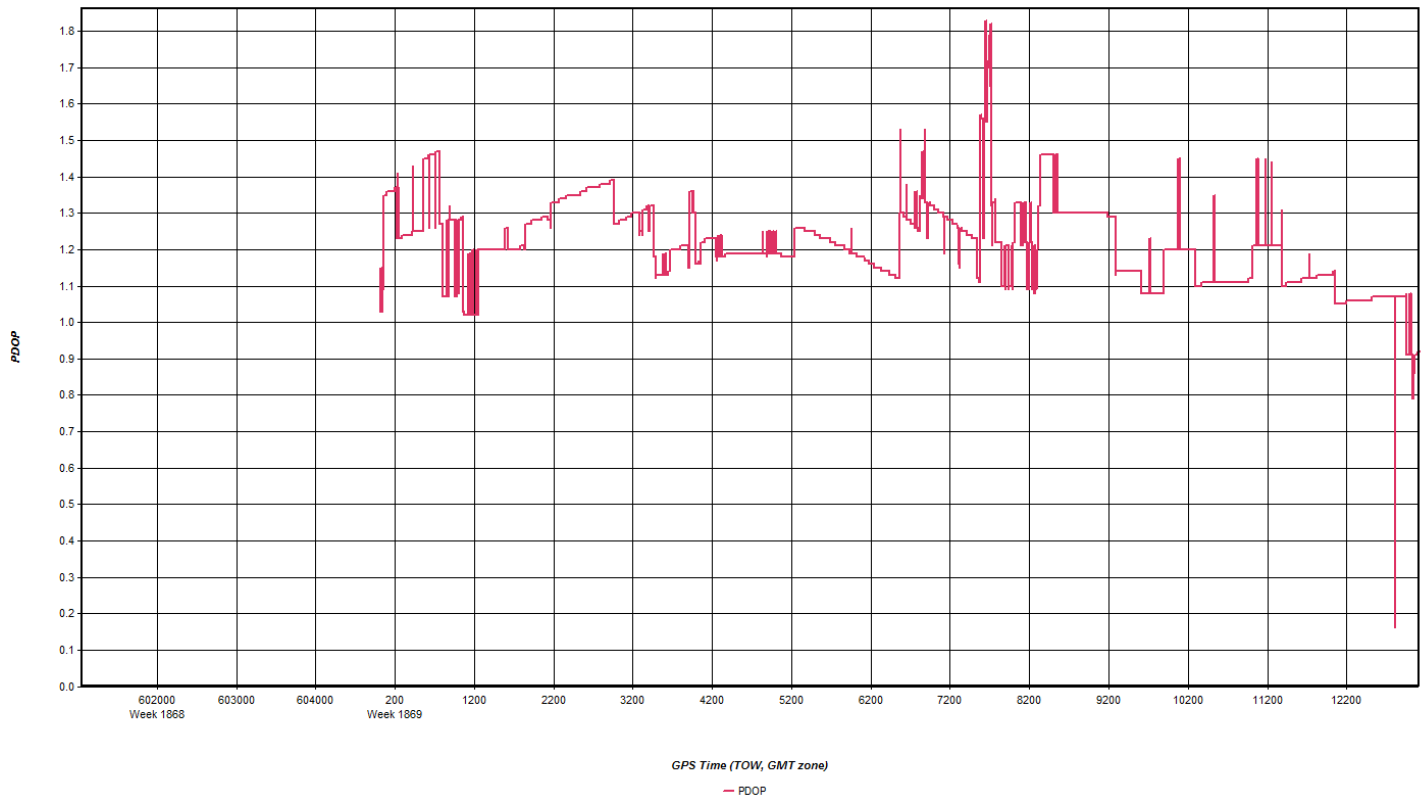
OPERATORS FLIGHT LOG															
MISSION: 20151031-173633 B		DATE: 10-31-15		LEICA ALS-70 7161		AIRCRAFT: N6GR		DCI							
PILOT: JACOBSON		OPERATOR: CAREY		MIM70 DRIVE		REMARKS									
PROJECT NUMBER AND NAME	LINE No.	Lbl	Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF KHZ	FIXED GAIN	Flying Ht. (m)	TIME		REMARKS			
										START	STOP				
26818									Feet	1800	1818	KLCI SITE			
CT RIVER										1818		CORS I.D. VTD7 44 23 52 72 01 32			
BERLIN										1826		FIG 8			
Block	101	9101	336	160	53	40	263	12/3	7703	1832	1840	15 XFLT			
	3	9003	236						7707	1844	1845				
	4	9004	56						7707	1848	1849				
	5	9005	236						7707	1853	1854				
	6	9006	56						7710	1858	1859				
	7	9007	236						7707	1902	1905				
	8	9008	56						7690	1909	1912				
	9	9009	236						7690	1916	1920				
	10	9010	56	160	53	40	263	12/3	7697	1924	1928	15			
	11	9011	236						7690	1932	1937				
	12	9012	56						7680	1941	1947				
	13	9013	236						7680	1950	1957				
	14	9014	56						7670	2000	2005				
	15	9015	236						7670	2009	2015				
	16	9016	56						7654	2020	2026				
	17	9017	236						7601	2030	2038				
STATUS	TOTAL LINES	FLOWN		LEFT		AIRCRAFT FERRY		STATIC		START		STOP		NOTES:	
26818	76	103		SFE		LOG 2		WK						LOG 1	

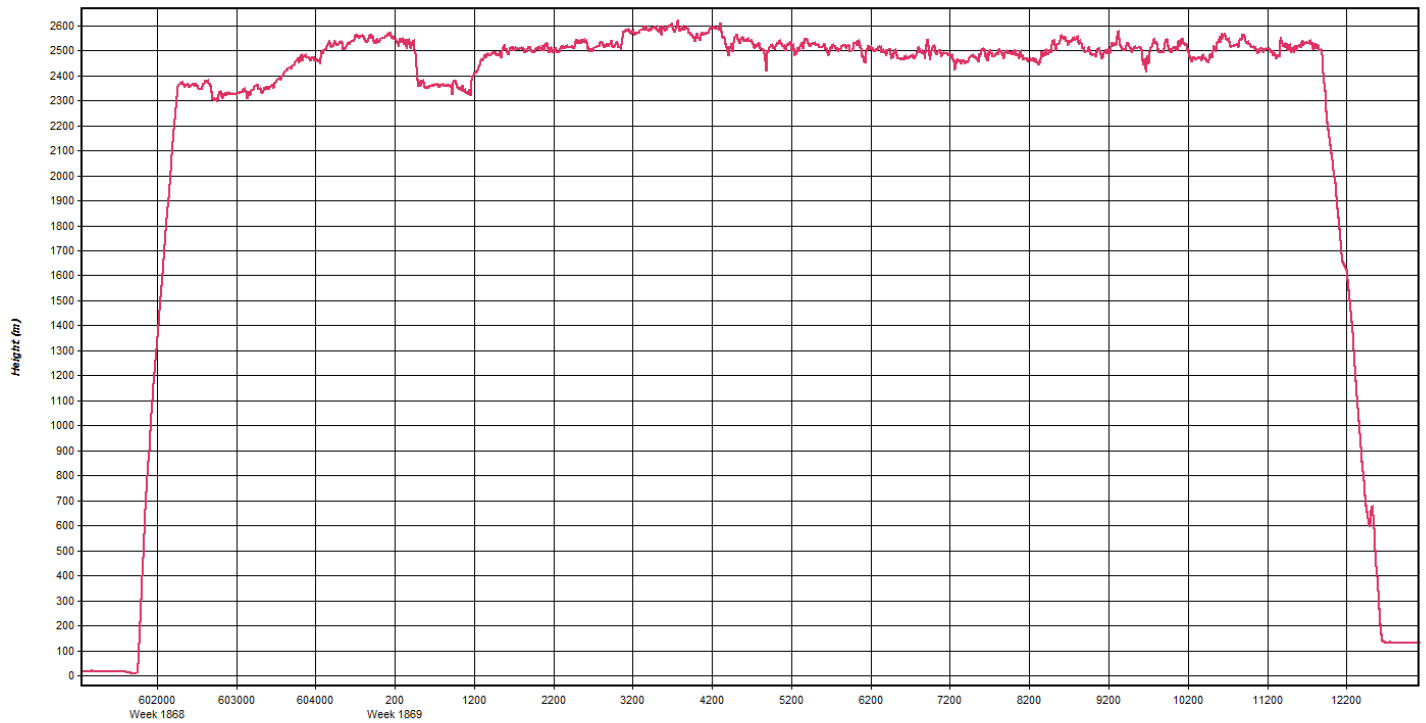
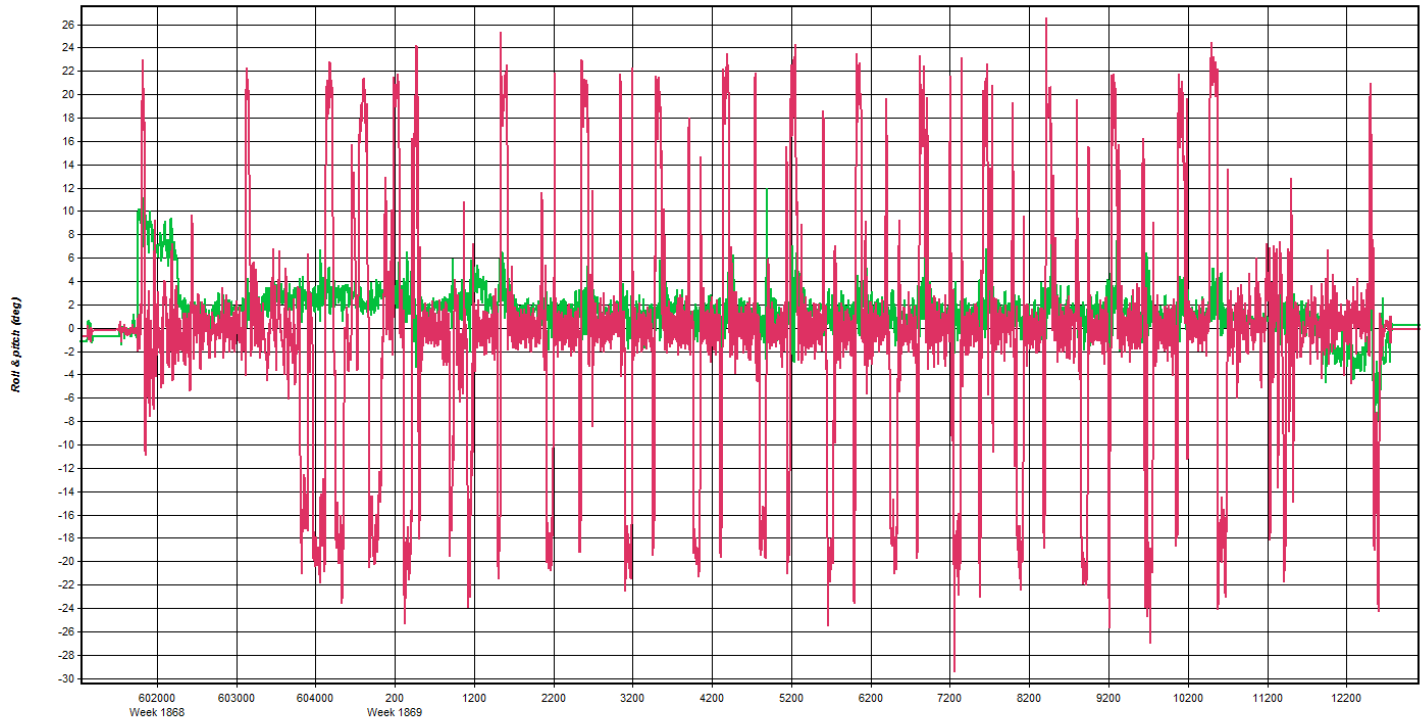
AERO-METRIC, INC. N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 FAX: 888-253-6695 E-Mail: amephot@aerometric.com

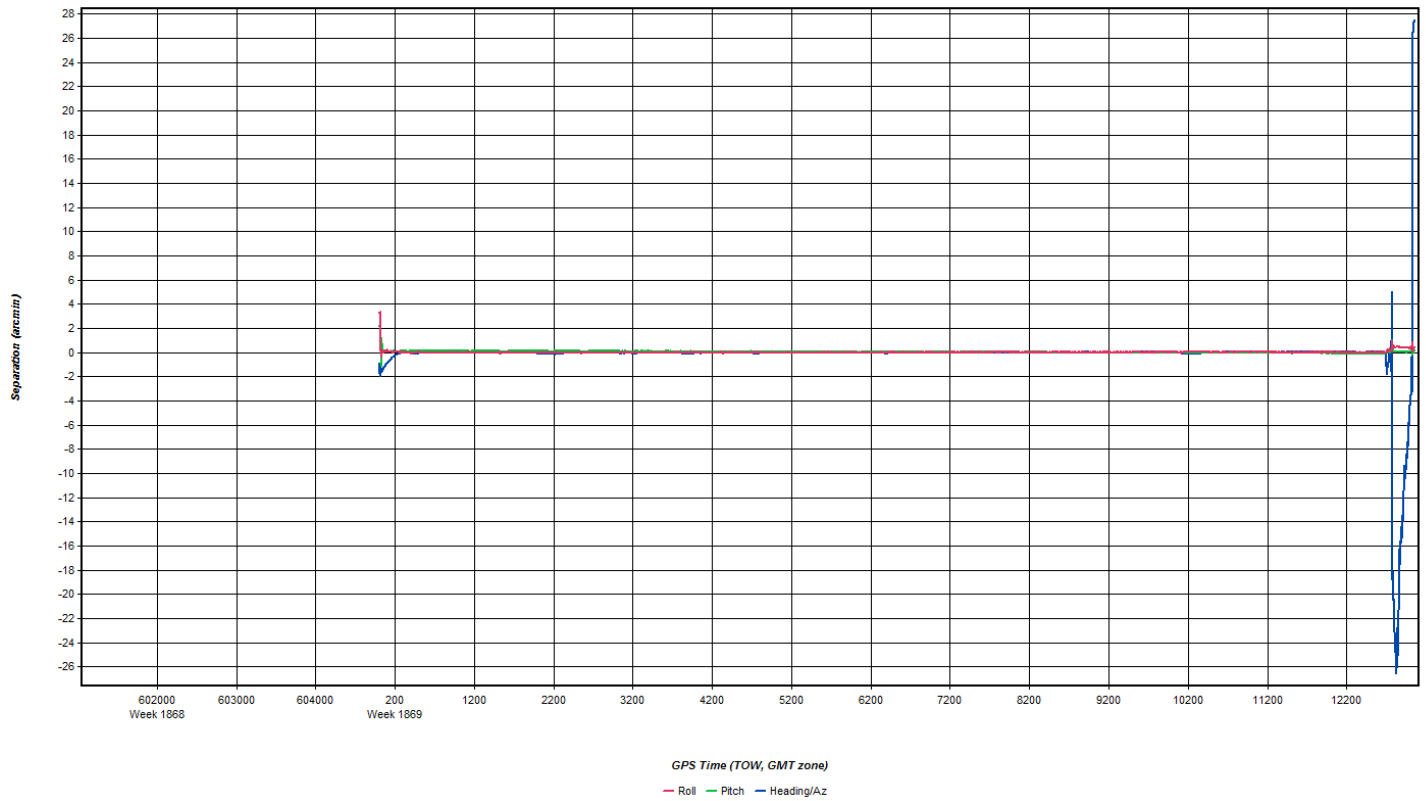
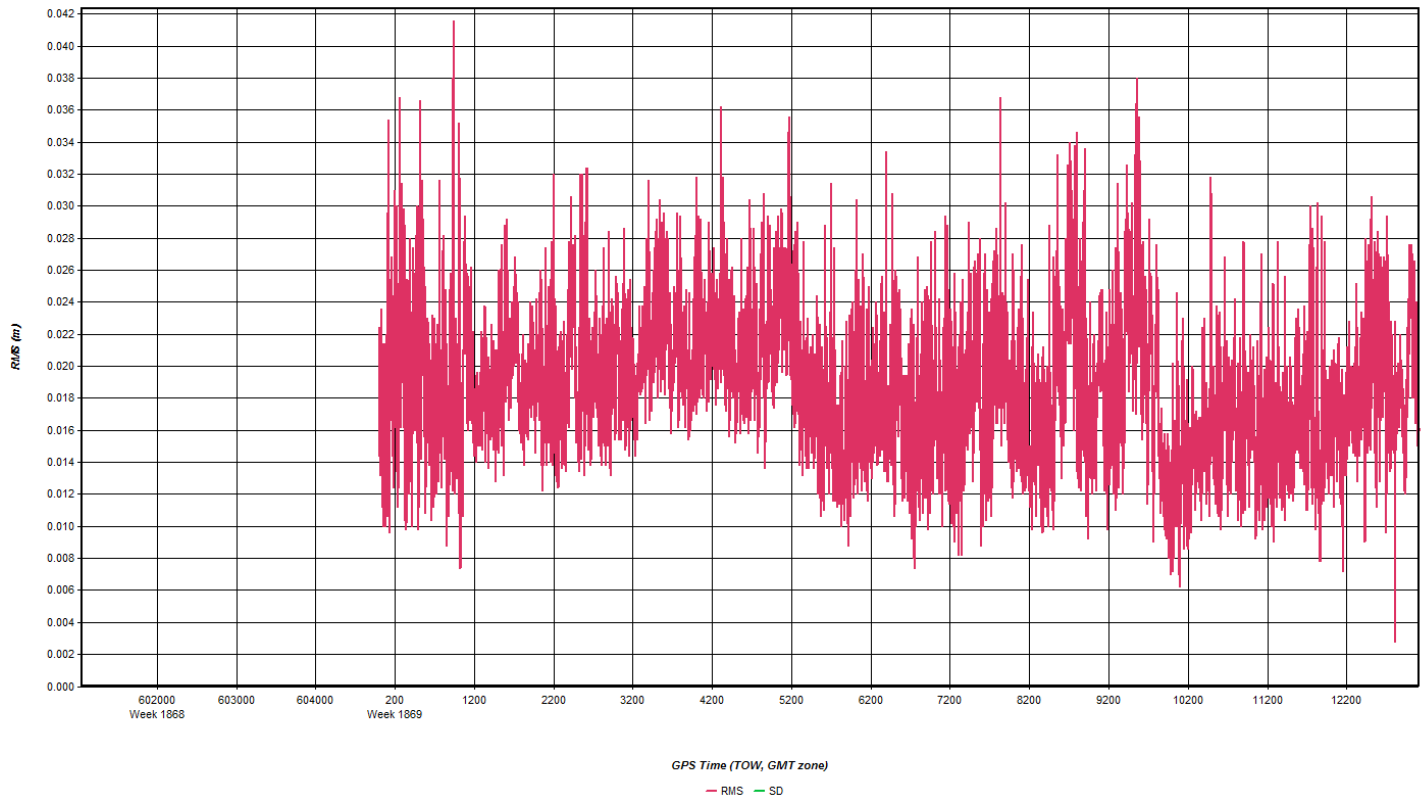
Oct 31, 2015-C (N6GR, SN7161)

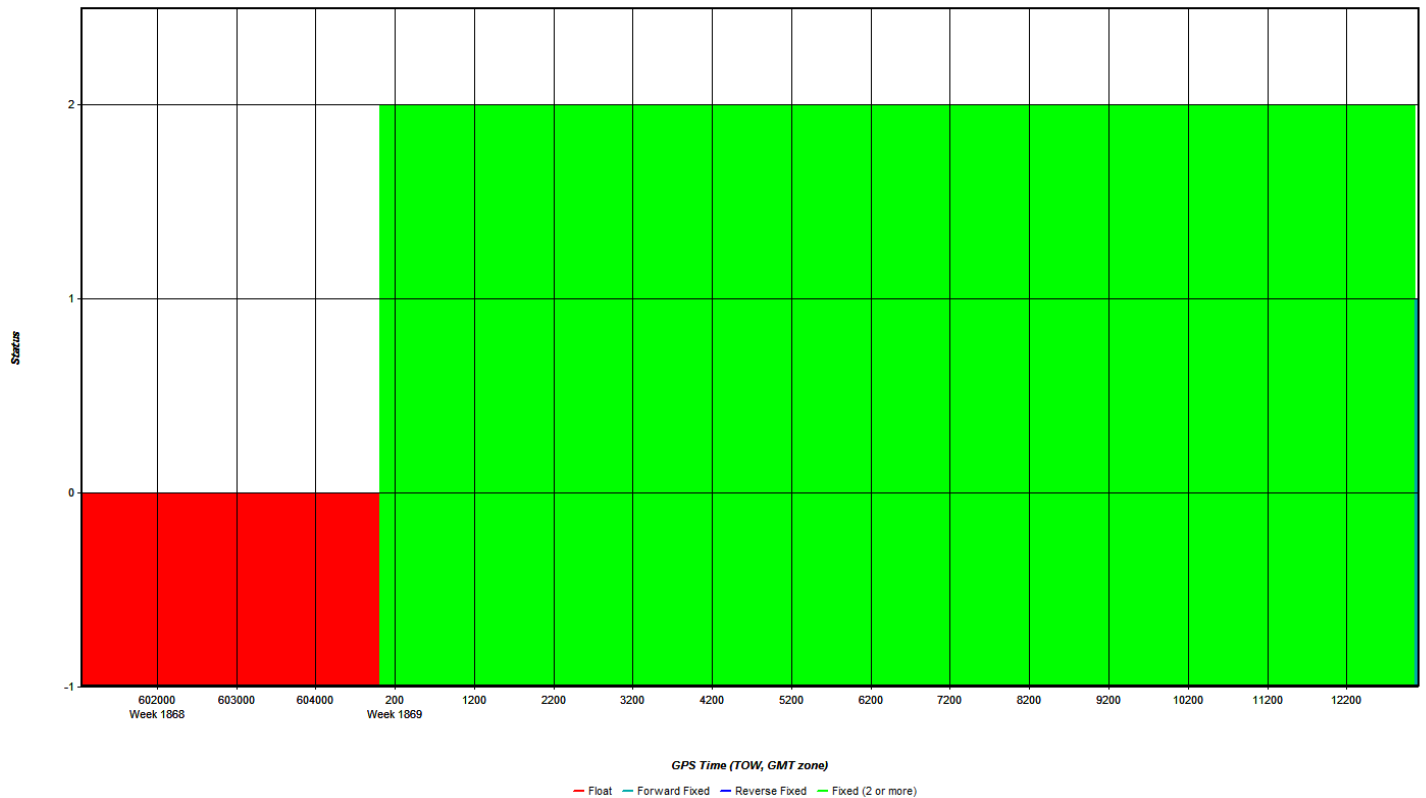












Coordinate/Antenna Settings

Master Remote

Base Station
 1: VTD7 Name: VTD7 Disabled
 File: F:\26818_USGS_CT_River\WNMK\26818_USGS_CT_River_BER

Coordinates
 Latitude: North 44 23 52.31066 Compute from PPP
 Longitude: West 72 01 32.39267 Enter Grid Values
 Ellipsoidal height: 166.528 m Enter MSL Height
 Datum: NAD83(2011) 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
 2: VTIP Name: VTIP Disabled
 File: F:\26818_USGS_CT_River\VNMK\26818_USGS_CT_River_BER

Coordinates
 Latitude: North 44 49 12.18043 Compute from PPP
 Longitude: West 71 53 25.83872 Enter Grid Values
 Ellipsoidal height: 341.732 m Enter MSL Height
 Datum: NAD83(2011) 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

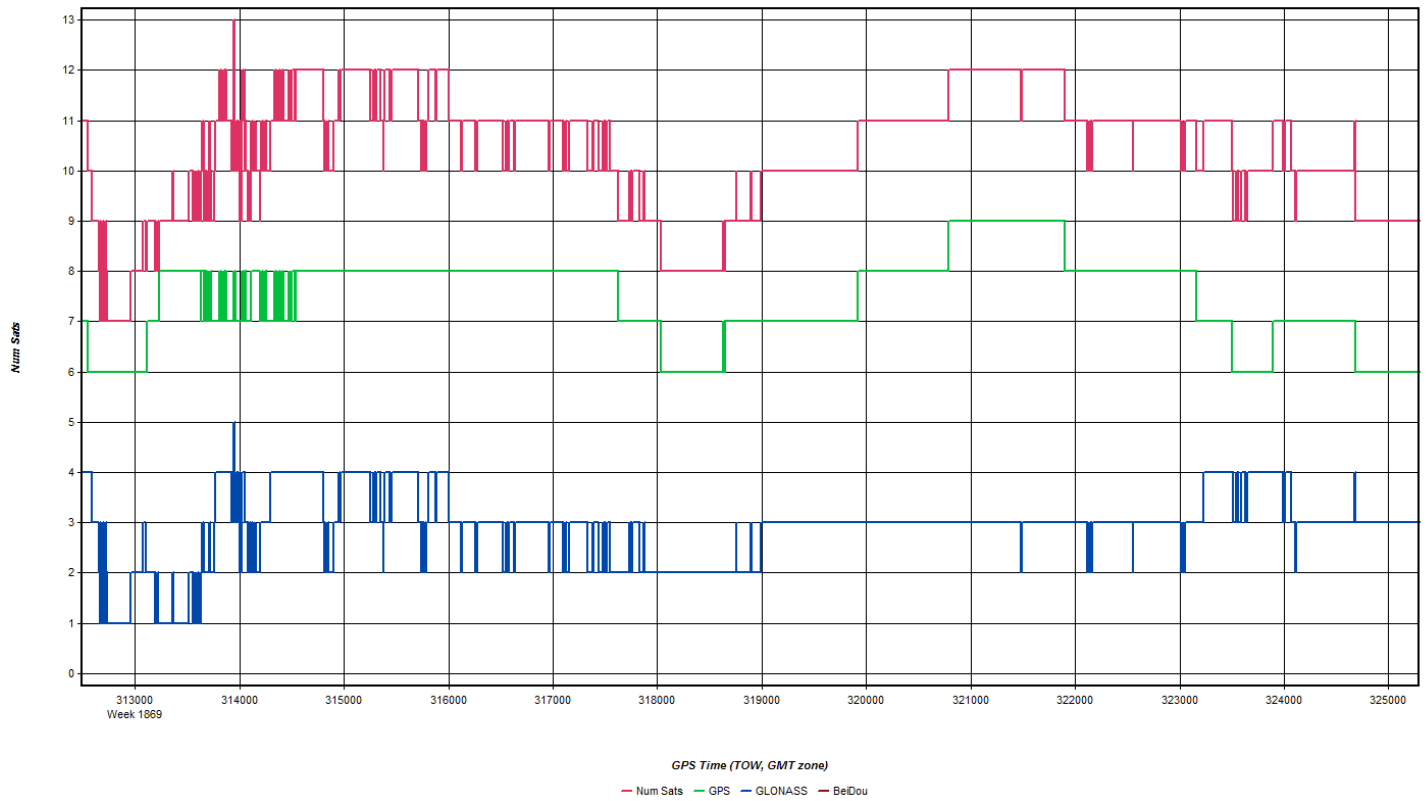
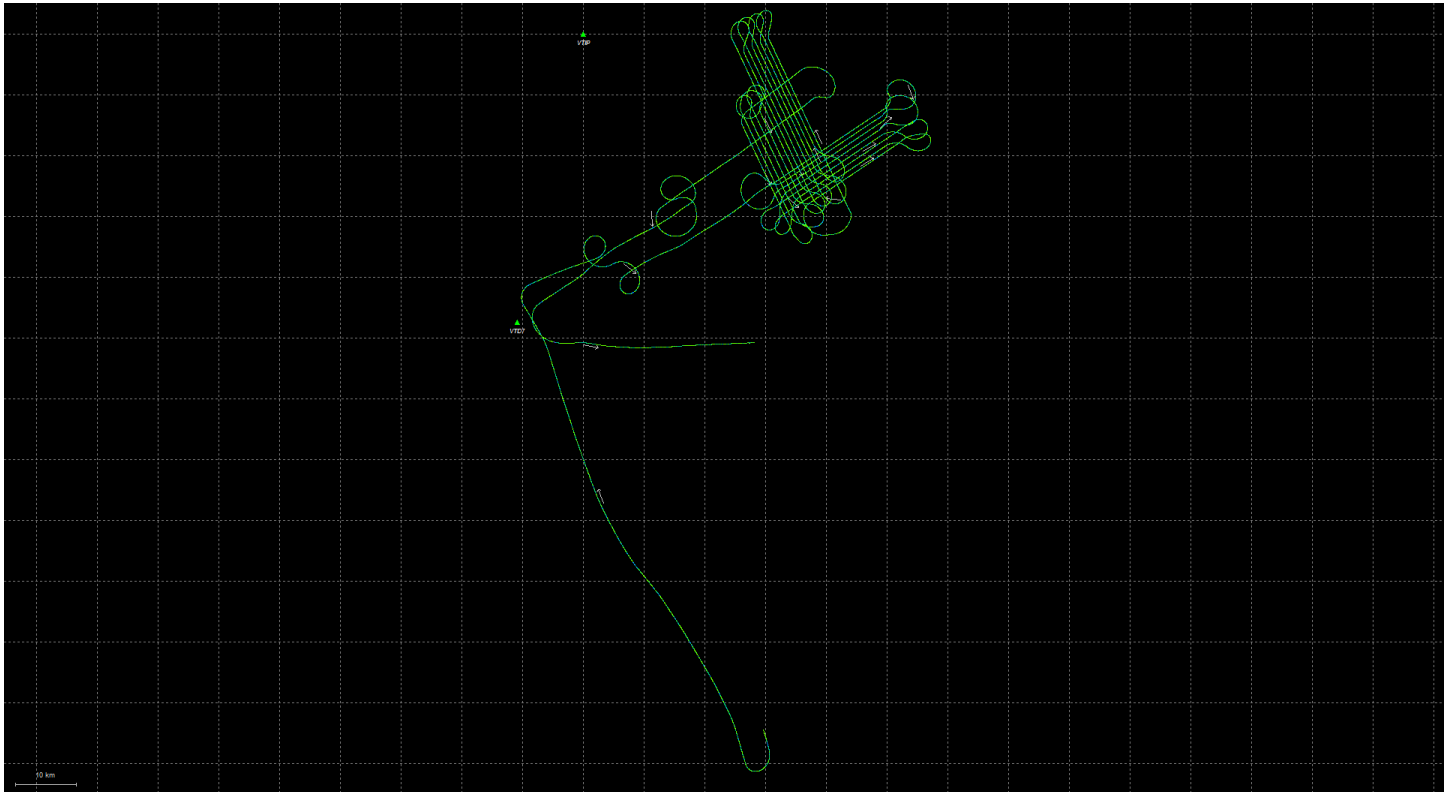
OK Cancel

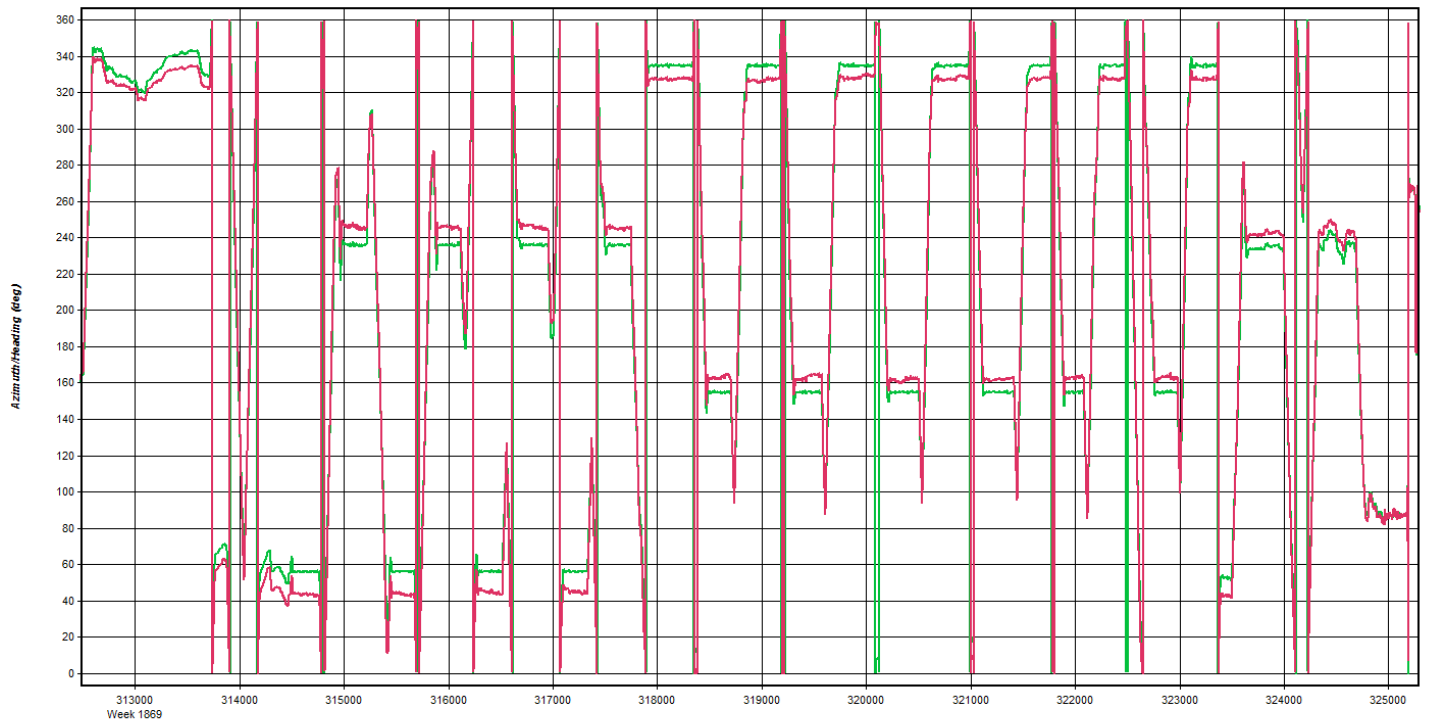
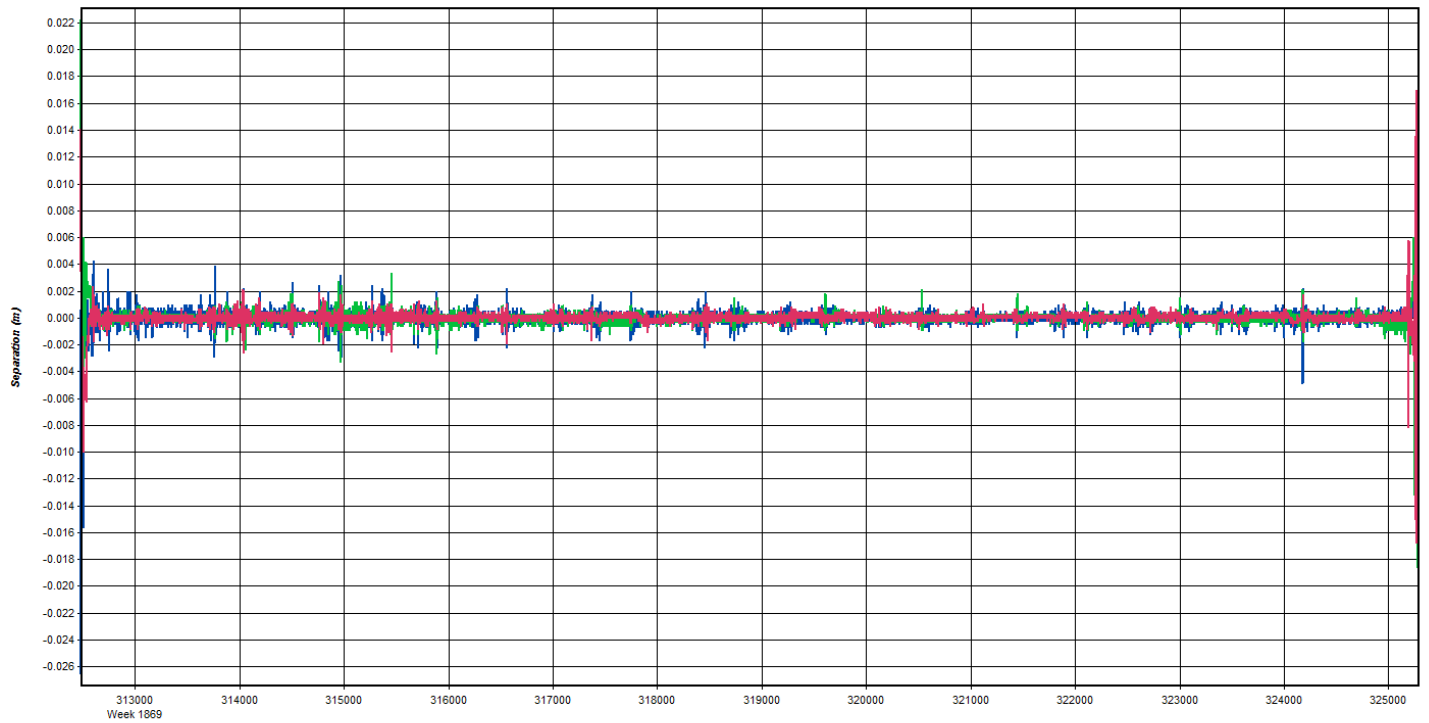
Flight Log

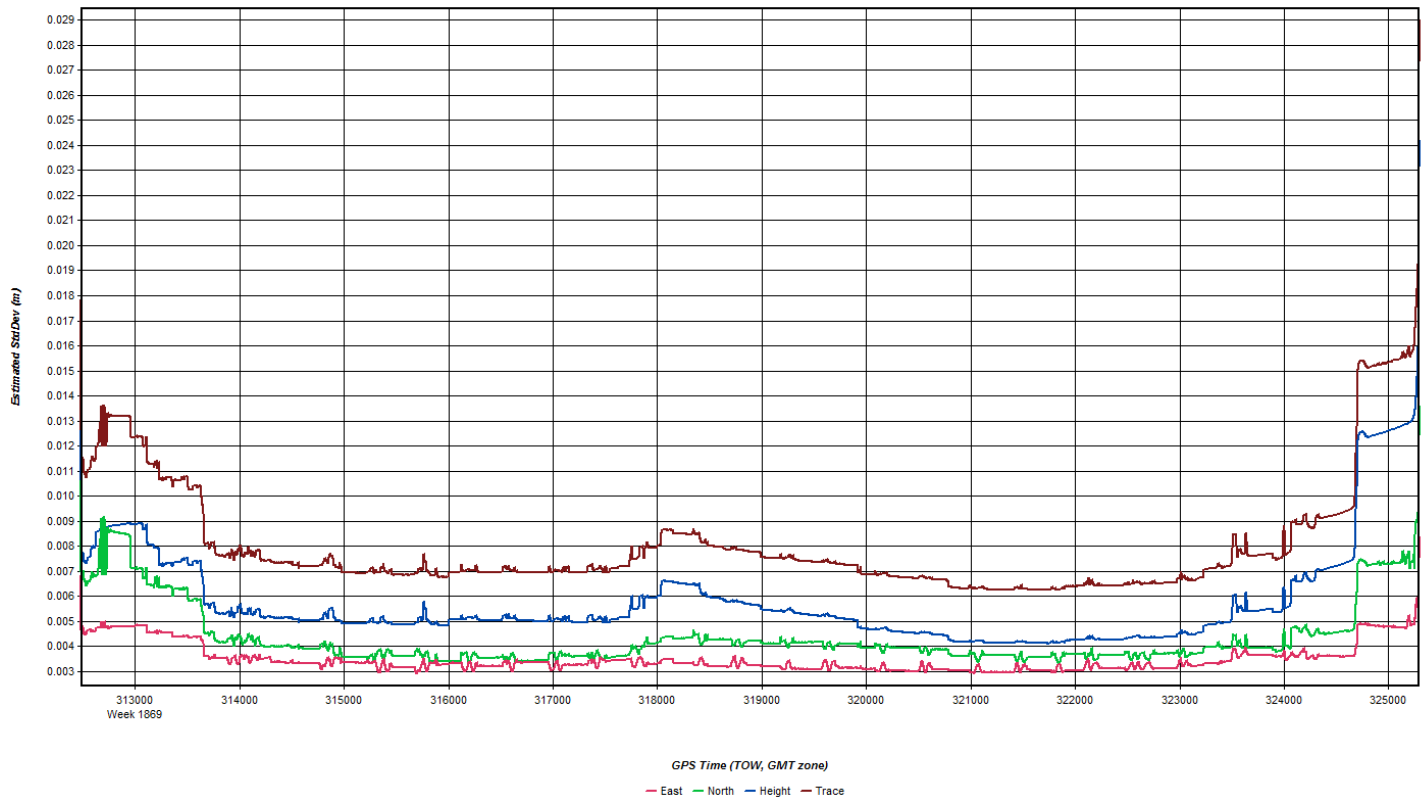
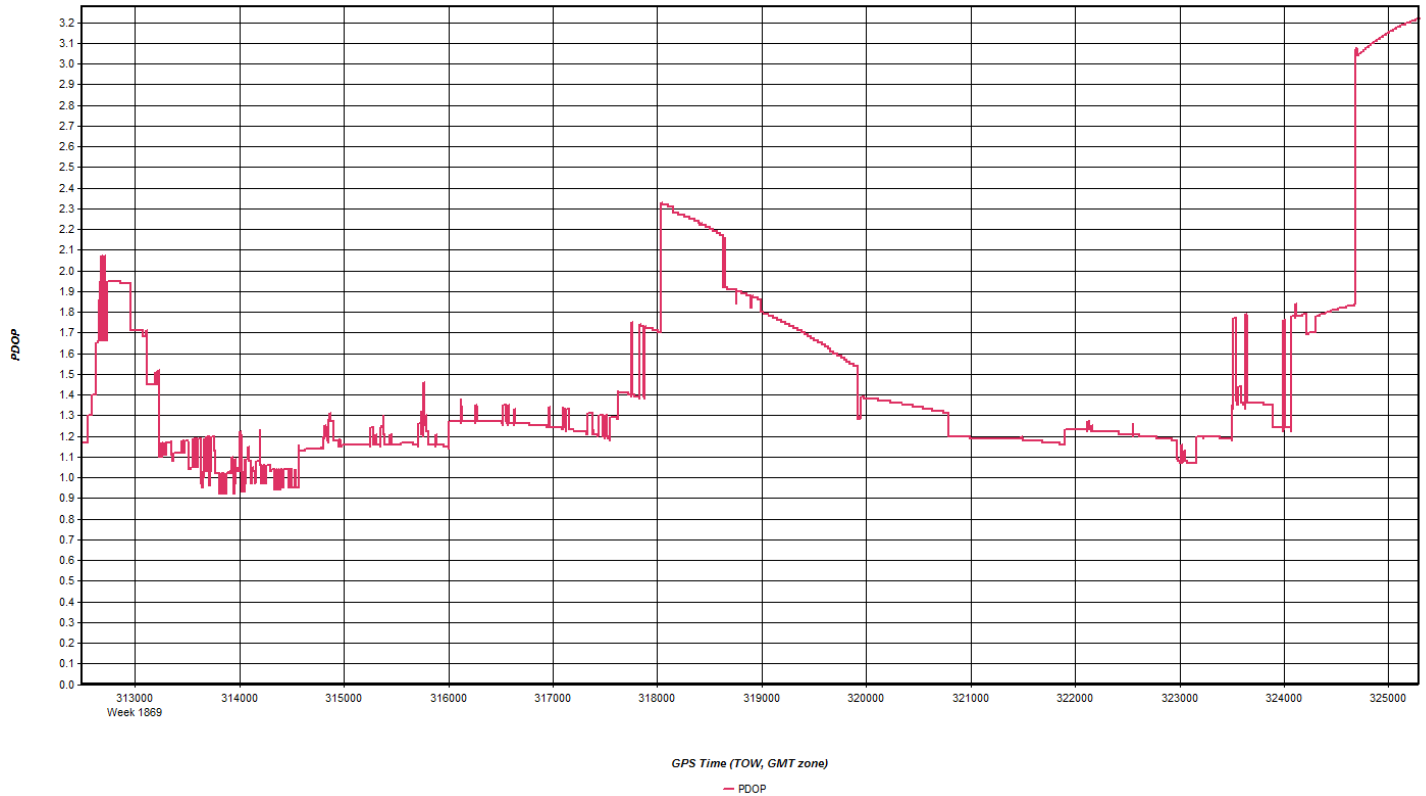
PROJECT NUMBER AND NAME		MISSION: 20151031-225325C		DATE: 10-31-15		OPERATOR: JACOBSON		PILOT: CAREY		AIRCRAFT: N6GR		LEICA ALS-70 7161		REMARKS	
		LINE No.	Lbl	Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF KHZ	FIXED GAIN	Flying Ht. (m)	START TIME	STOP TIME	MM70 DRIVE		
26818															LCT → SITE
CT RIVER															CORS I.D.: VTD7 44 23 52
BERLIN															GPS FOLLOWER / GPS MIDNIGHT
Block															FIG 8
	101	9101	336	-160	53	40	263	12/3	7703	0040	0016	15		XFLT	
	22	9022	56						8156	0020	0024				
	23	9023	236						8172	0028	0033				
	24	9024	56						8235	0037	0041				
	25	9025	236						8215	0045	0050				
	26	9026	56						8510	0053	0057				
	27	9027	236						8448	0100	0104				
	28	9028	56						8422	0108	0111				
	29	9029	236						8294	0115	0118				
	30	9030	56	-160	53	40	263	12/3	8281	0121	0125	15			
	31	9031	236						8156	0129	0132				
	32	9032	56						8159	0135	0139				
	33	9033	236						8130	0142	0146				
	34	9034	56						8094	0149	0153				
	35	9035	236						8084	0156	0159				
STATUS	TOTAL LINES			FLOWN	LEFT	SITE	AIRCRAFT	FERRY	STATIC	START	STOP	NOTES:			
26818	103			SEE	LOG	#4						20151101			
									WPK			LOG 3			

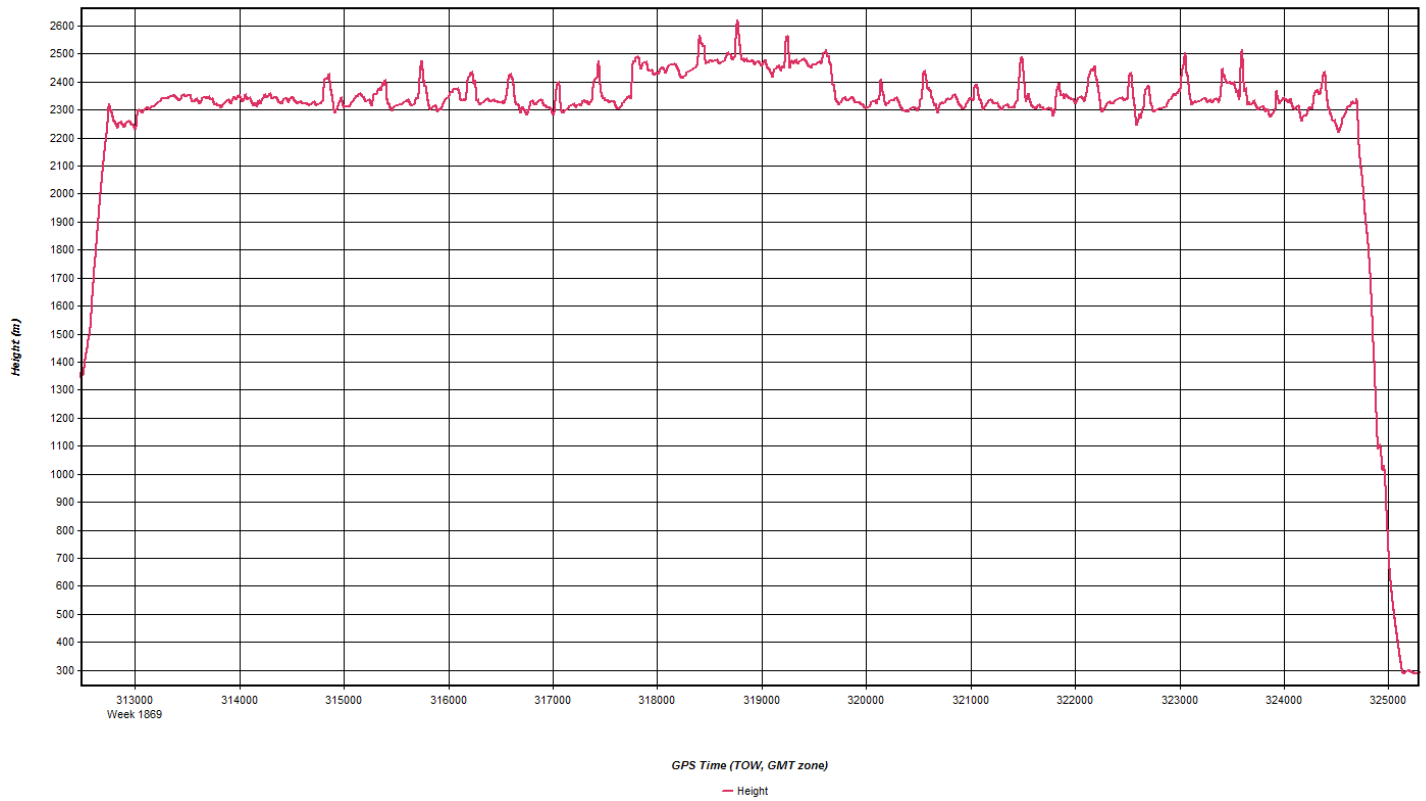
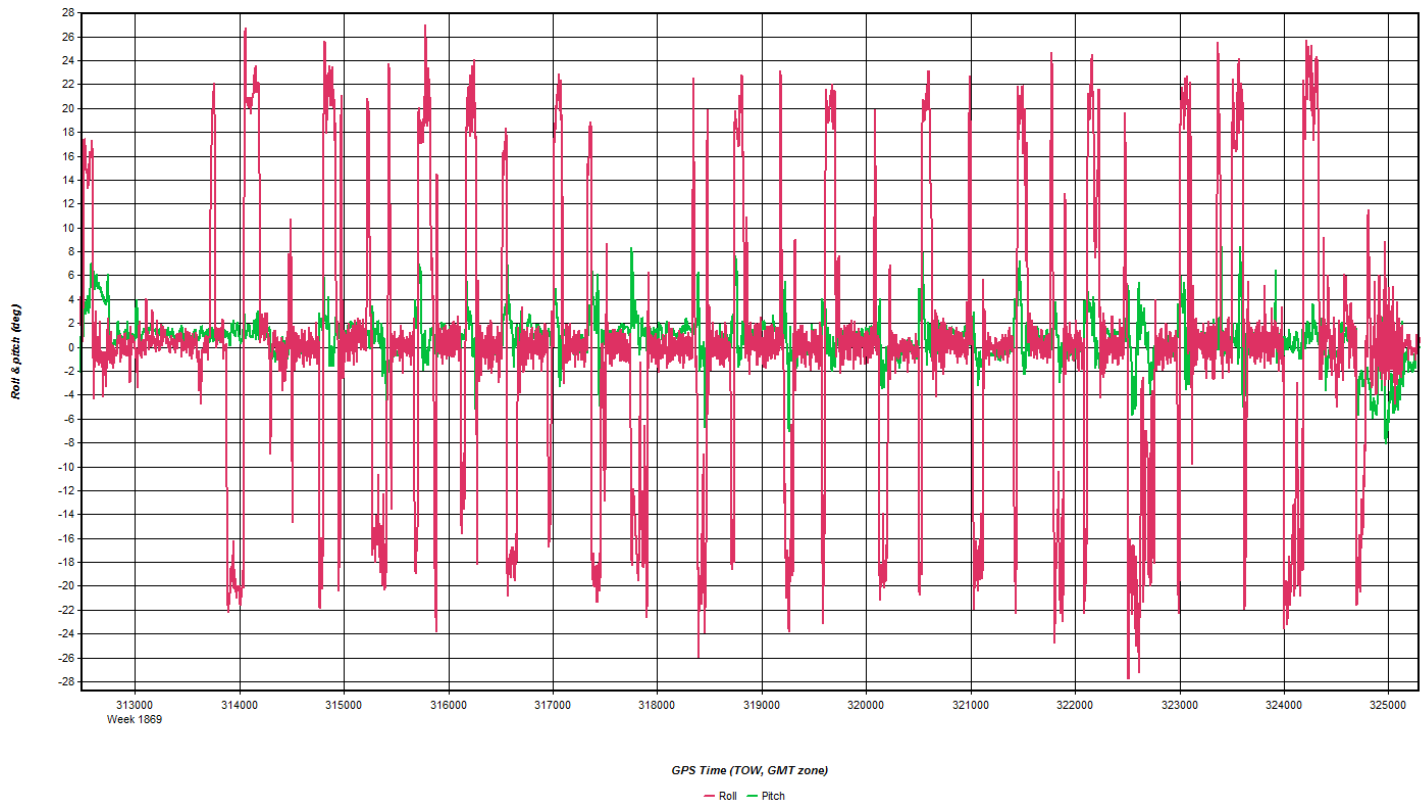
AERO-METRIC, INC. N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 FAX: 888-253-6695 E-Mail: amphoto@aerometric.com

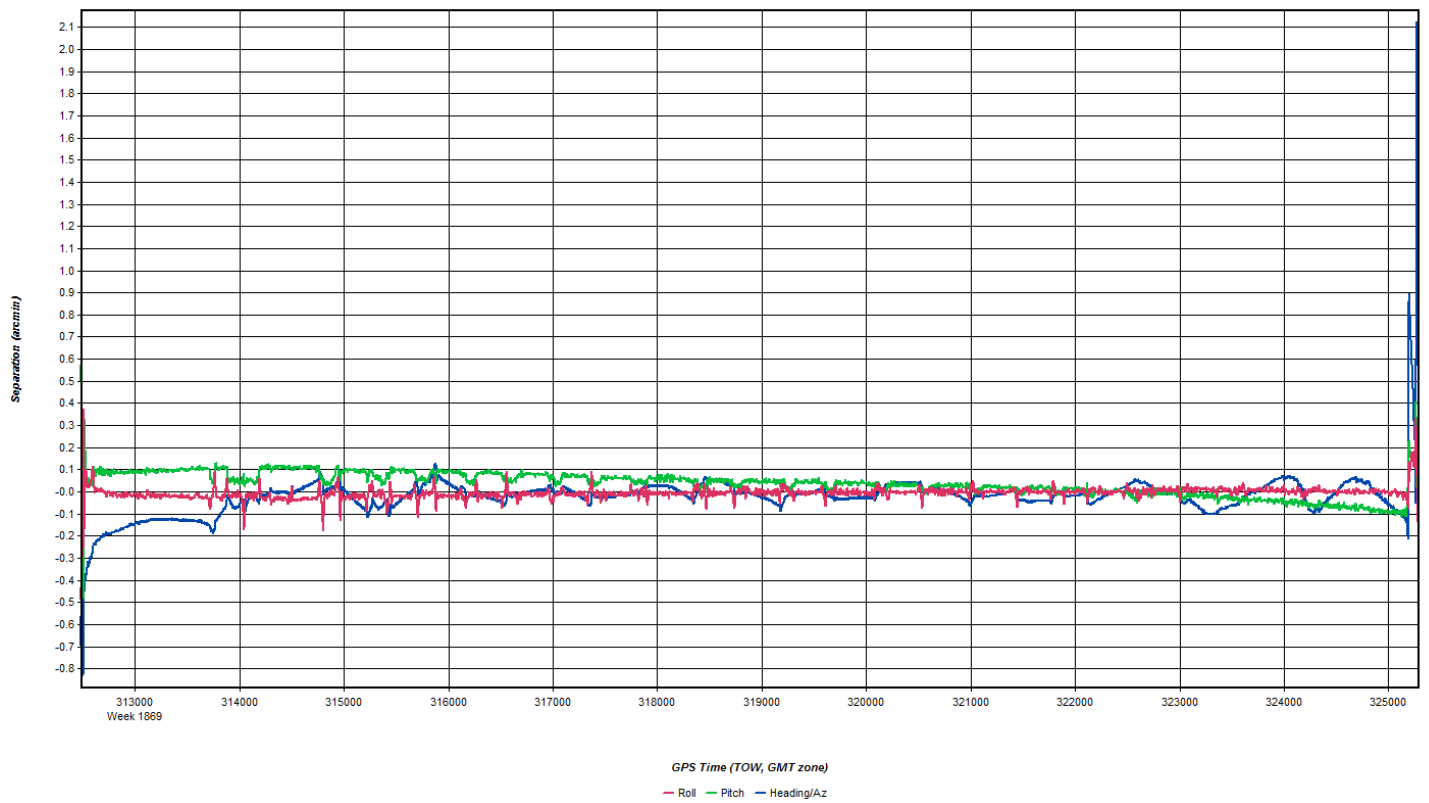
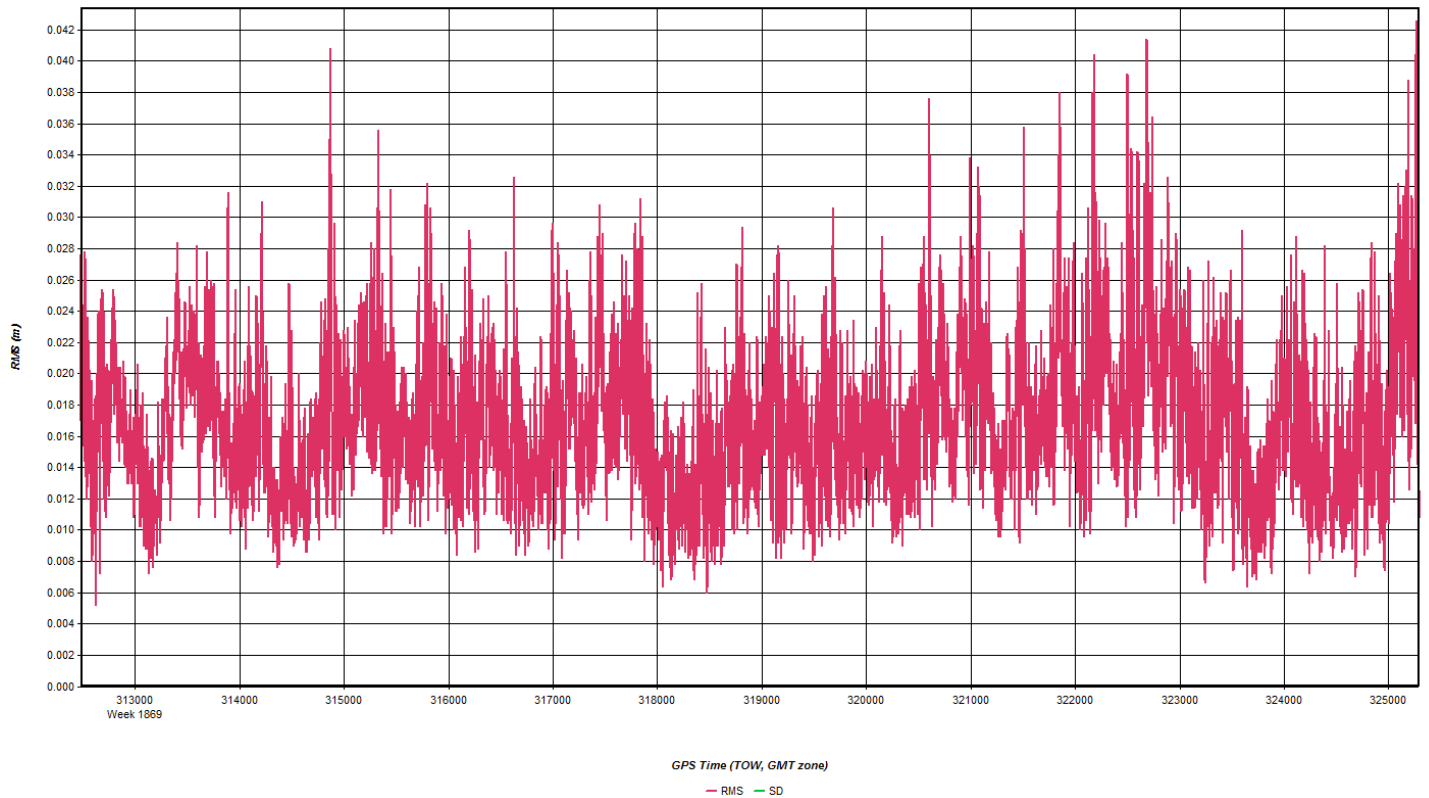
Nov 04, 2015-A (N6GR, SN7161)

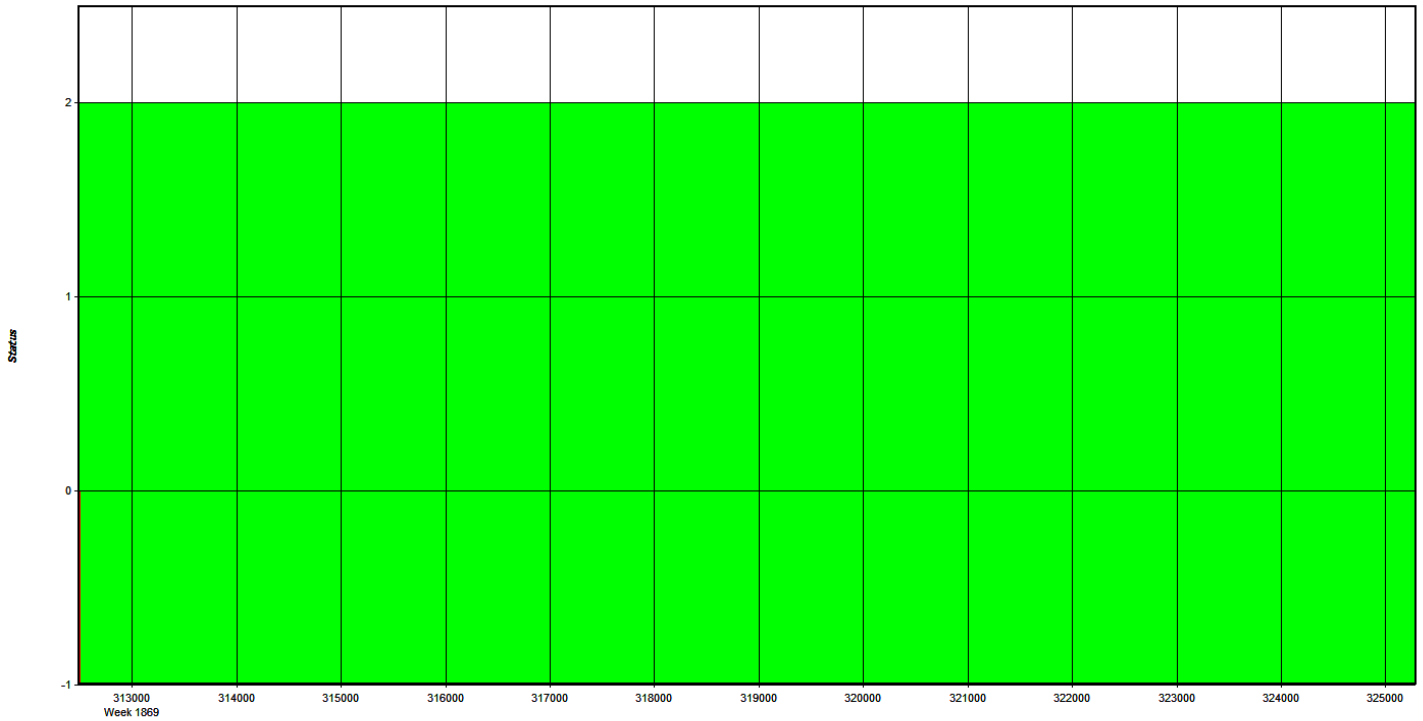












GPS Time (TOW, GMT zone)
 - Float - Forward Fixed - Reverse Fixed - Fixed (2 or more)

Coordinate/Antenna Settings

Master Remote

Base Station
 2: VTD7 Name: VTD7 Disabled
 File: F:\26818_USGS_CT_River\6KRM\26818_USGS_CT_River_Berli

Coordinates
 Latitude: North 44 23 52.31066 Compute from PPP
 Longitude: West 72 01 32.39267 Enter Grid Values
 Ellipsoidal height: 166.528 m Enter MSL Height
 Datum: NAD83(2011) 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: VTIP Name: VTIP Disabled
 File: F:\26818_USGS_CT_River\6KRM\26818_USGS_CT_River_Berli

Coordinates
 Latitude: North 44 49 12.18043 Compute from PPP
 Longitude: West 71 53 25.83872 Enter Grid Values
 Ellipsoidal height: 341.732 m Enter MSL Height
 Datum: NAD83(2011) 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

20151040-7161
1410 Indian Trail Rd., Norcross, GA - 30093 - 770.564.9643 - www.photoscience.com

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Geospatial Solutions

LIDAR MISSION RECORD SHEET

Project Name USGS CT RIVER RERUN		Date From 11/4/2015	
Project Number 26818		Takeoff Time 14:17 Z	
Flight Plan File 26818_Rerun_Bank_Survey_LiDAR_Scan		Landing Time 18:19 Z	
Pilot BULLINGTON		Field Elev. 1161'	
Tech HOYT		Temp. at Altitude 9°C	
Aircraft N6GR		Ground 9°C	

Data Information		Ground	
IPAS File Name 20151040-7161	From/To 000 -> 031	Begin Temp 9°C	Begin Dewpoint 4°C
LIDAR Unit # s/n 7161	HD # 010	Begin Pressure 30.32 KSM	Mid Temp 12°C
start		Mid Dewpoint 3°C	Mid Pressure 30.34 KSM
stop		End Temp 16°C	End Dewpoint 2°C
BASE- ABGPS- HOBBS- 1872E 3141.2		End Pressure 30.33 KSM	Field Elev. 1072'

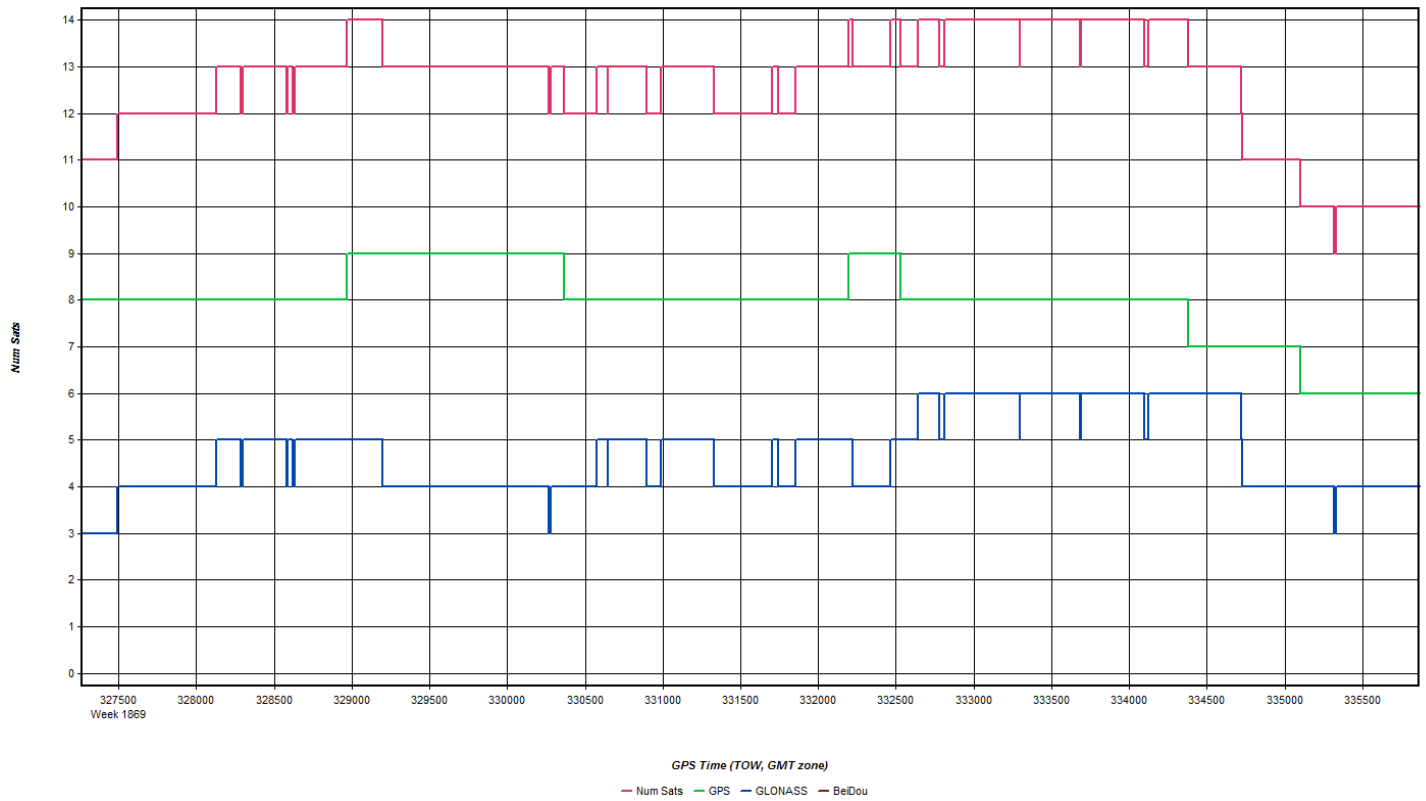
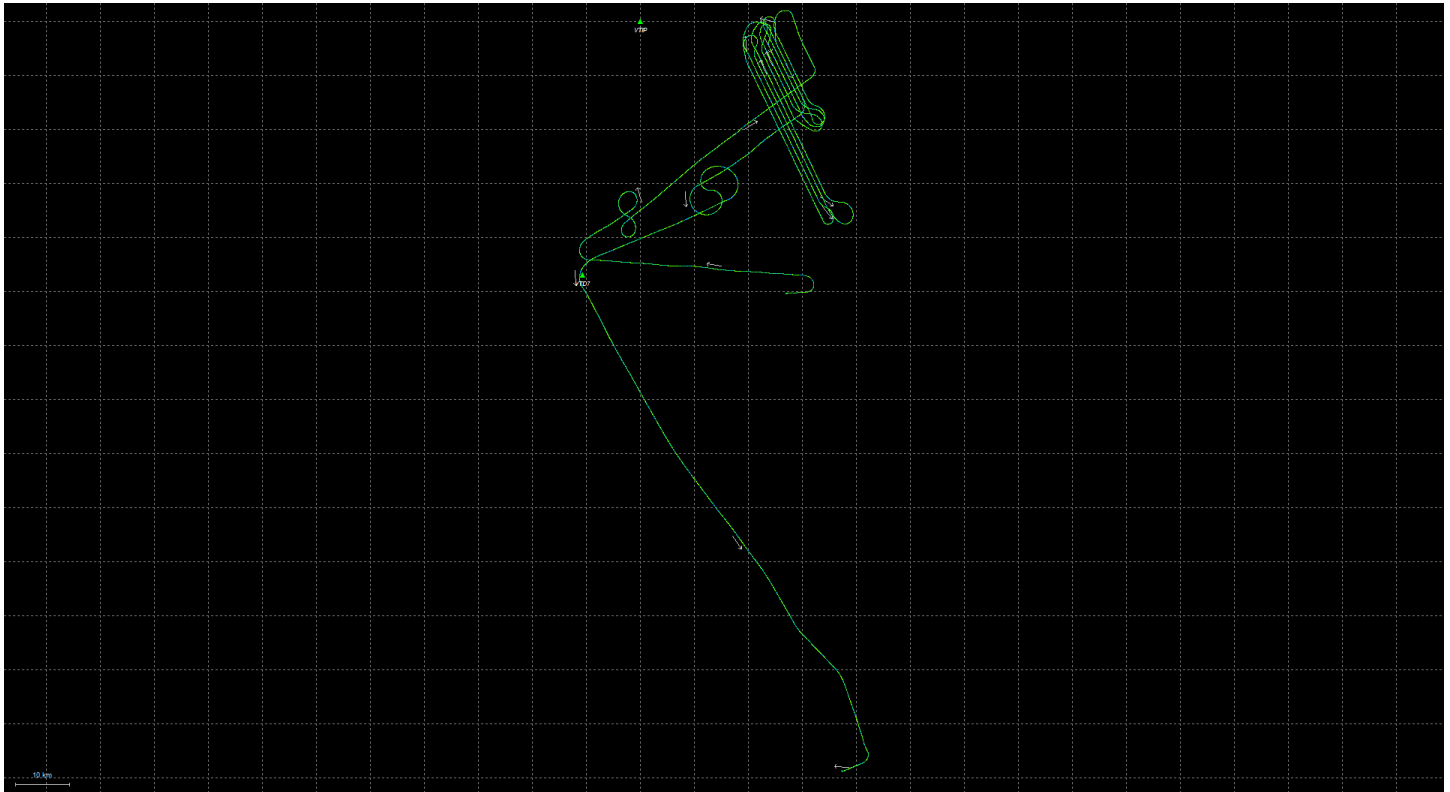
Project's Scanning Requirements	FOV (degrees): 40%	SPIA? % (MPIA)
	Laser Current(%): 534	100
	Altitude AGL (ft): 13700	10000
	Range Gate (m): 100	13000

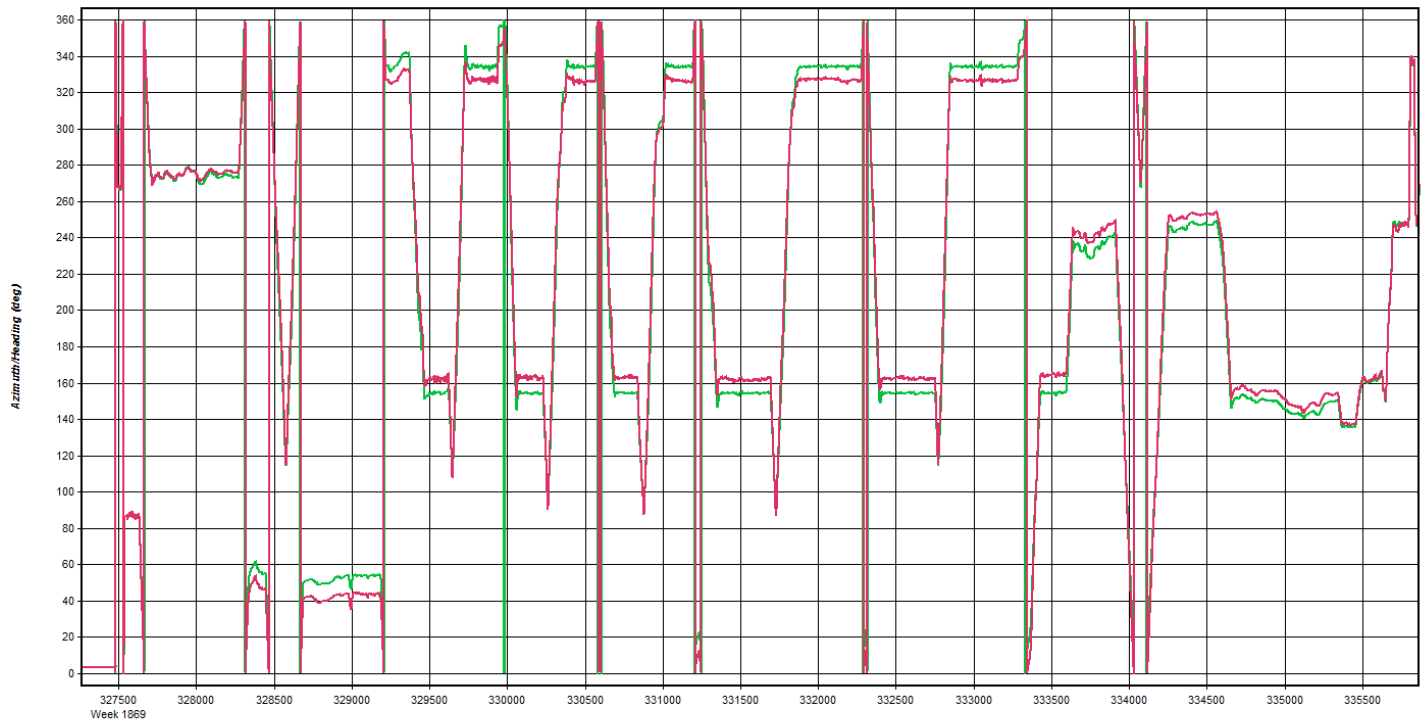
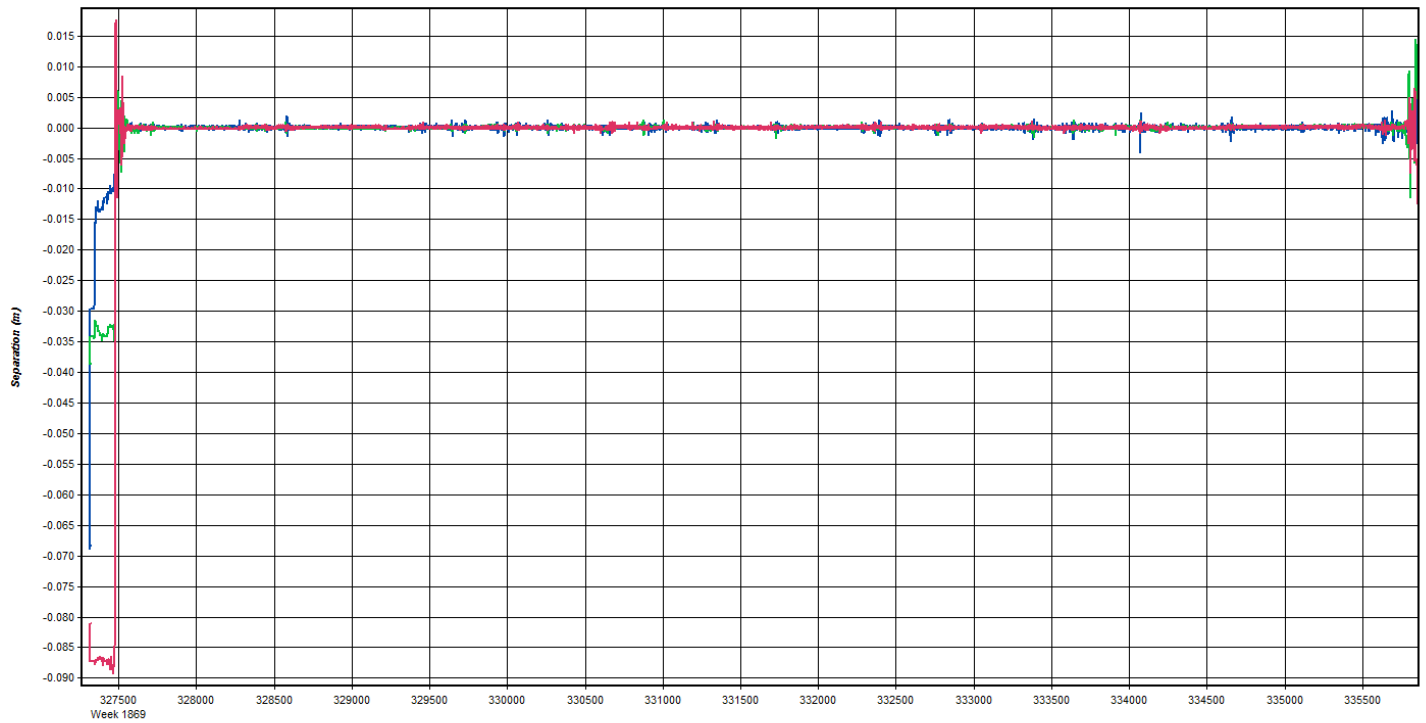
FCMS File Name 20151040-144408	GPS Base Location(s) VTP-GRS
Static or Flyover? FLYOVER	Laser On Time & Off Times 14:10 Z / 18:22 Z

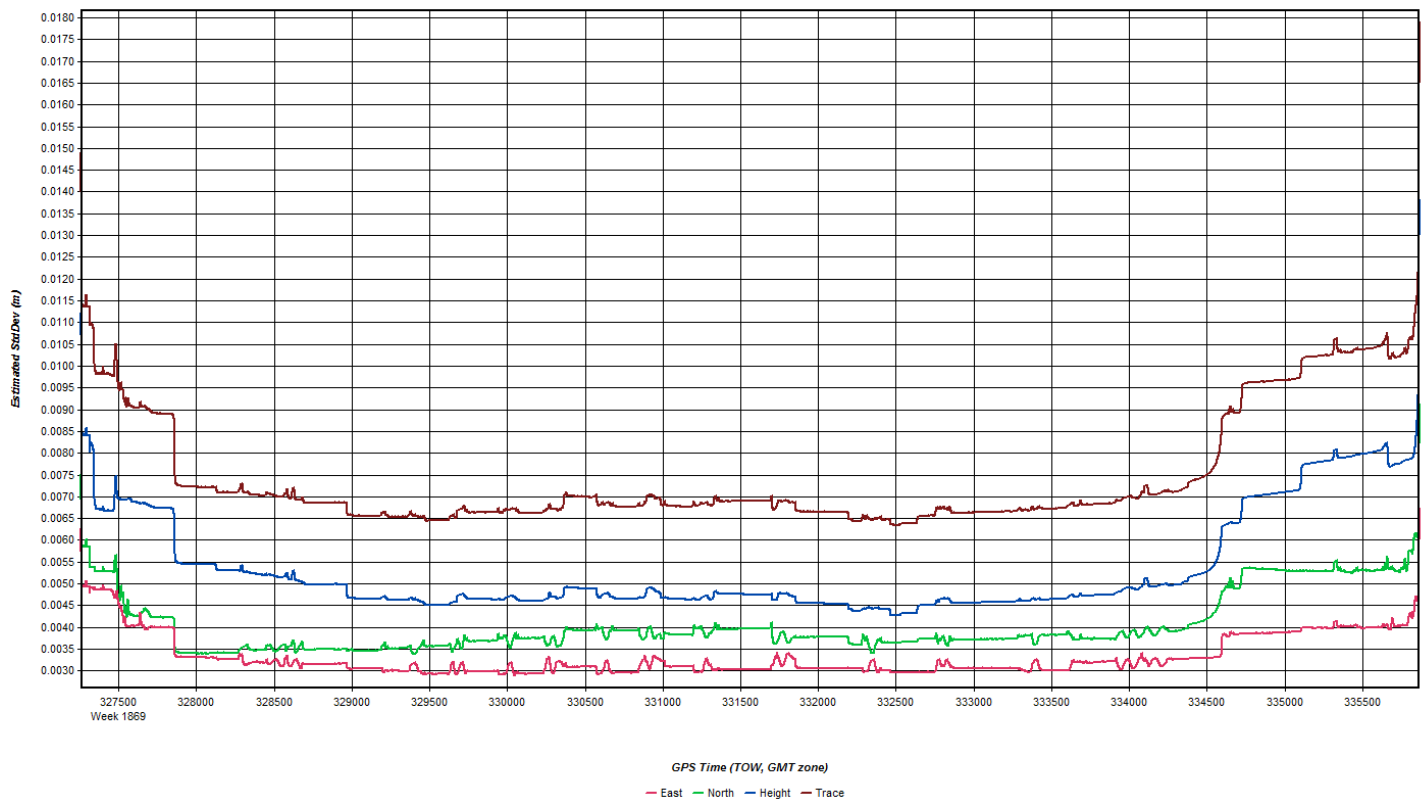
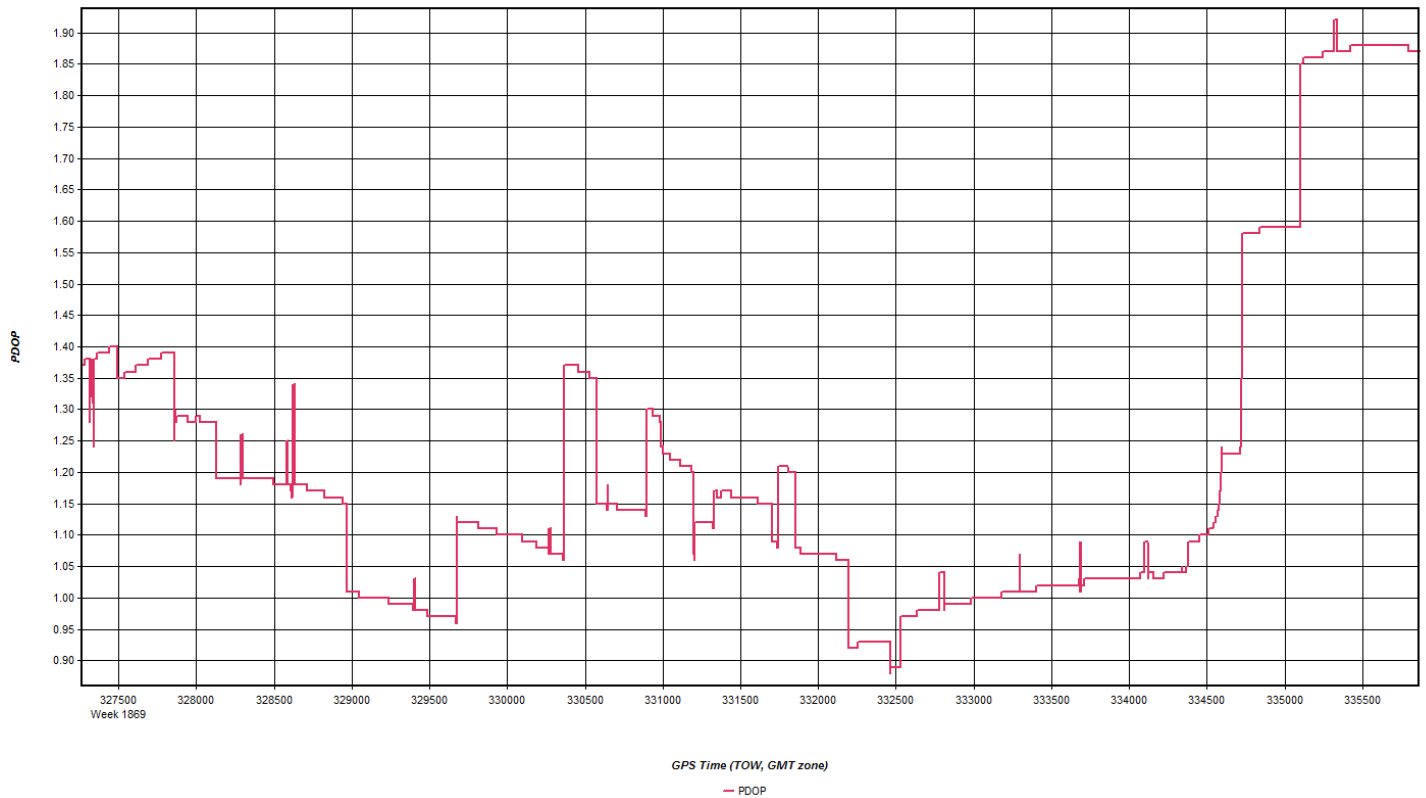
FILE	FL #	Alt (AMSL)	Heading	Speed	Returns	Crab	PDOF	NOTES
15261	9094	7624	56°	169	97%	0	1.4	SPAD CLASS @ 400' wind 210-277; REBOOT → IPAS error
15276	9095	7638	236°	156	100%	0	1.5	valid 295° @ 4 Kts.
15375	9096	7637	58°	160	100%	0	1.5	" 312° @ 31 "
15436	9097	7644	286°	159	100%	0	1.4	" 292° @ 39 "
15519	9098	7644	56°	170	100%	0	1.3	" 303° @ 34 "
15583	9099	7657	236°	150	100%	0	1.2	check out 291° @ 43 "
160524	9090	7680	56°	143	100%	0	1.2	" 312° @ 33 "
161211	9091	7687	236°	149	100%	0	1.2	" 290° @ 42 "
161845	9092	8077	336°	143	97%	0	1.1	" 296° @ 37 "
162755	9093	8061	156°	175	100%	0	1.2	" 293° @ 33 "
163437	9095	8041	336°	140	100%	0	1.0	" 299° @ 43 "
164151	9094	7989	156°	176	100%	0	1.4	" 286° @ 31 "
164919	9093	7667	336°	142	100%	0	1.2	" 300° @ 41 "
165705	9092	7637	156°	165	100%	0	1.3	" 288° @ 28 "
170424	9091	7638	336°	148	92%	0	1.2	" 297° @ 38 "
171215	9090	7634	156°	168	100%	0	1.3	" 289° @ 29 "
171931	9089	7625	336°	148	100%	0	1.3	" 297° @ 38 "
172502	9088	7605	156°	172	100%	0	1.3	" 290° @ 29 "
173050	9087	7595	336°	146	100%	0	1.2	" 295° @ 35 "
173923	9086	7638	156°	167	100%	0	1.1	" 291° @ 29 "

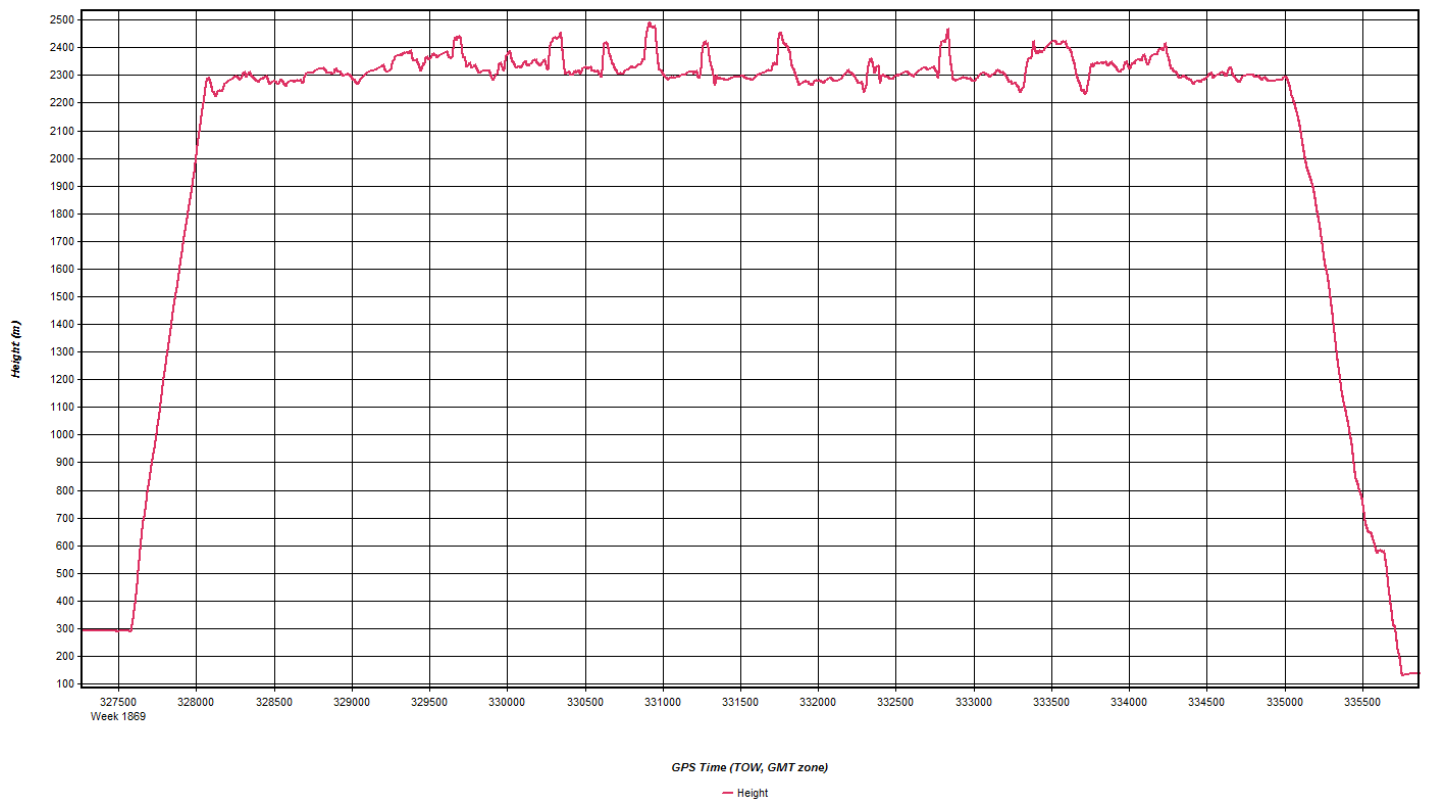
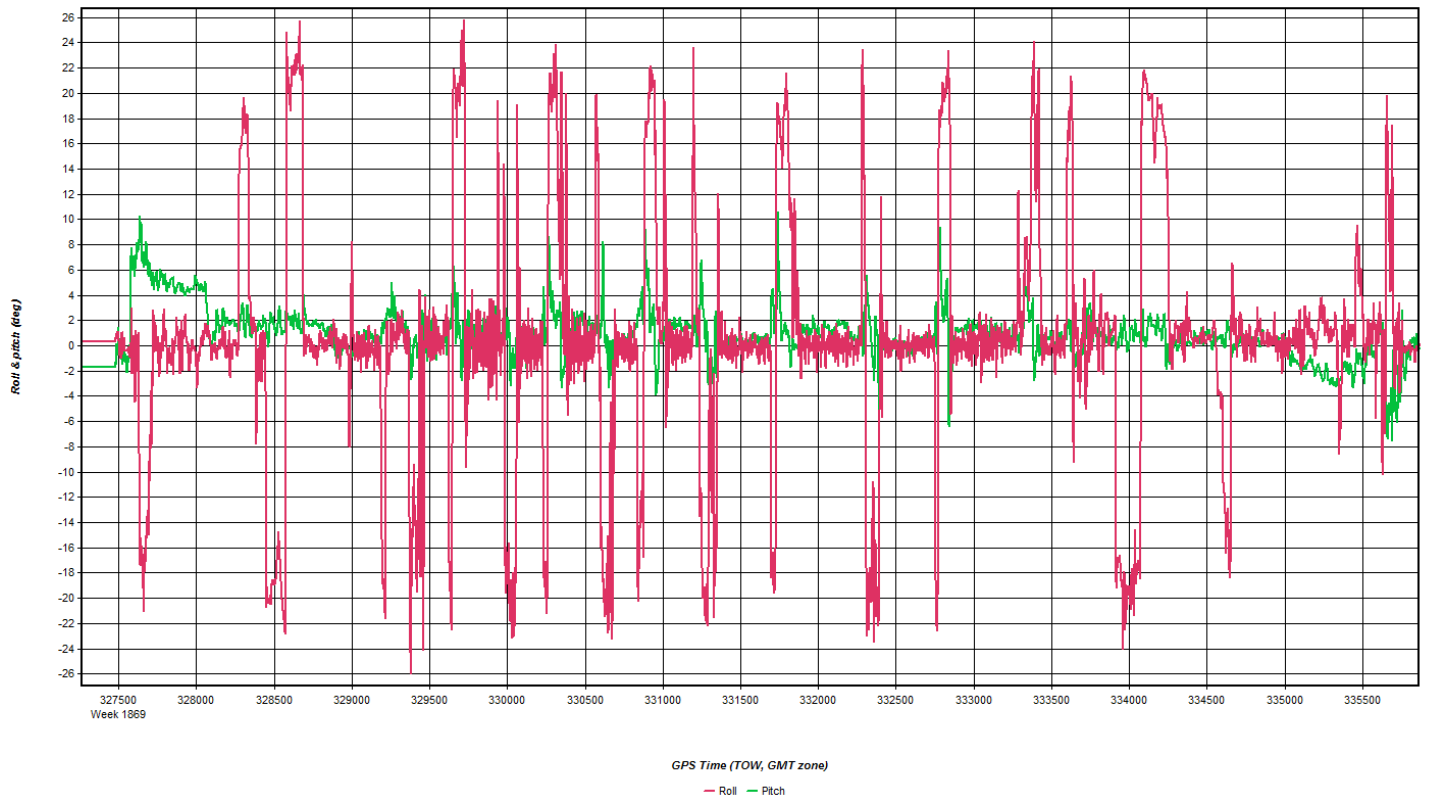
SHEET 1 OF 2

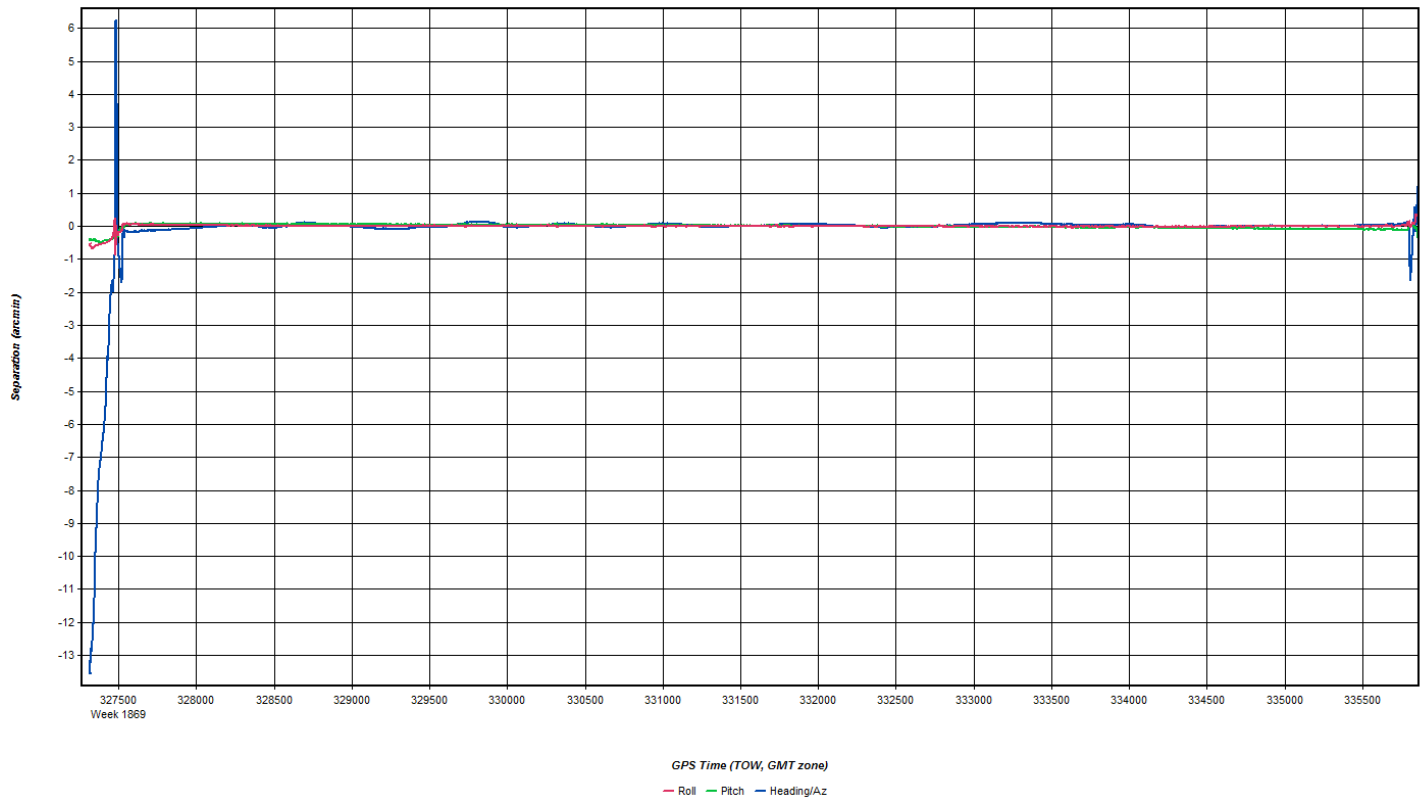
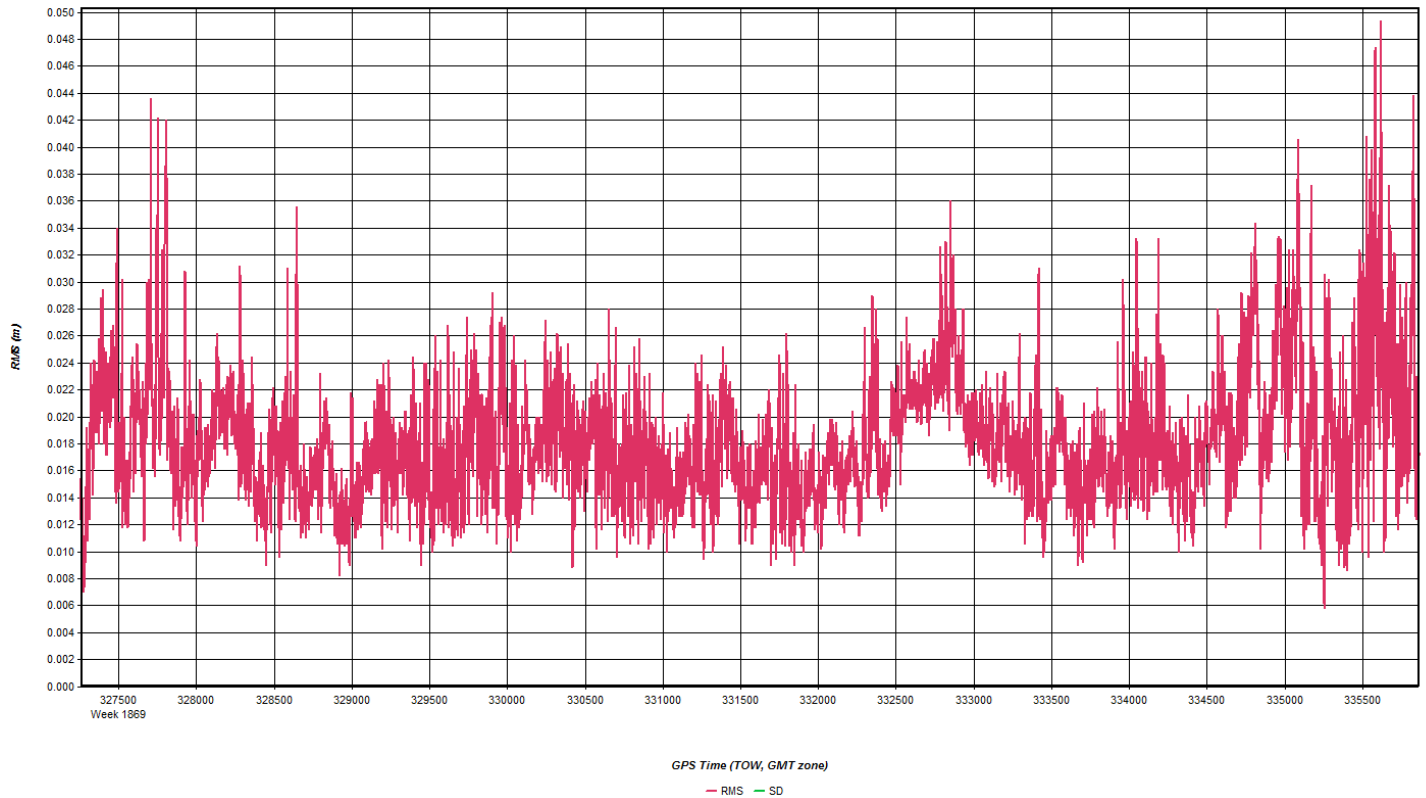
Nov 04, 2015-B (N6GR, SN7161)

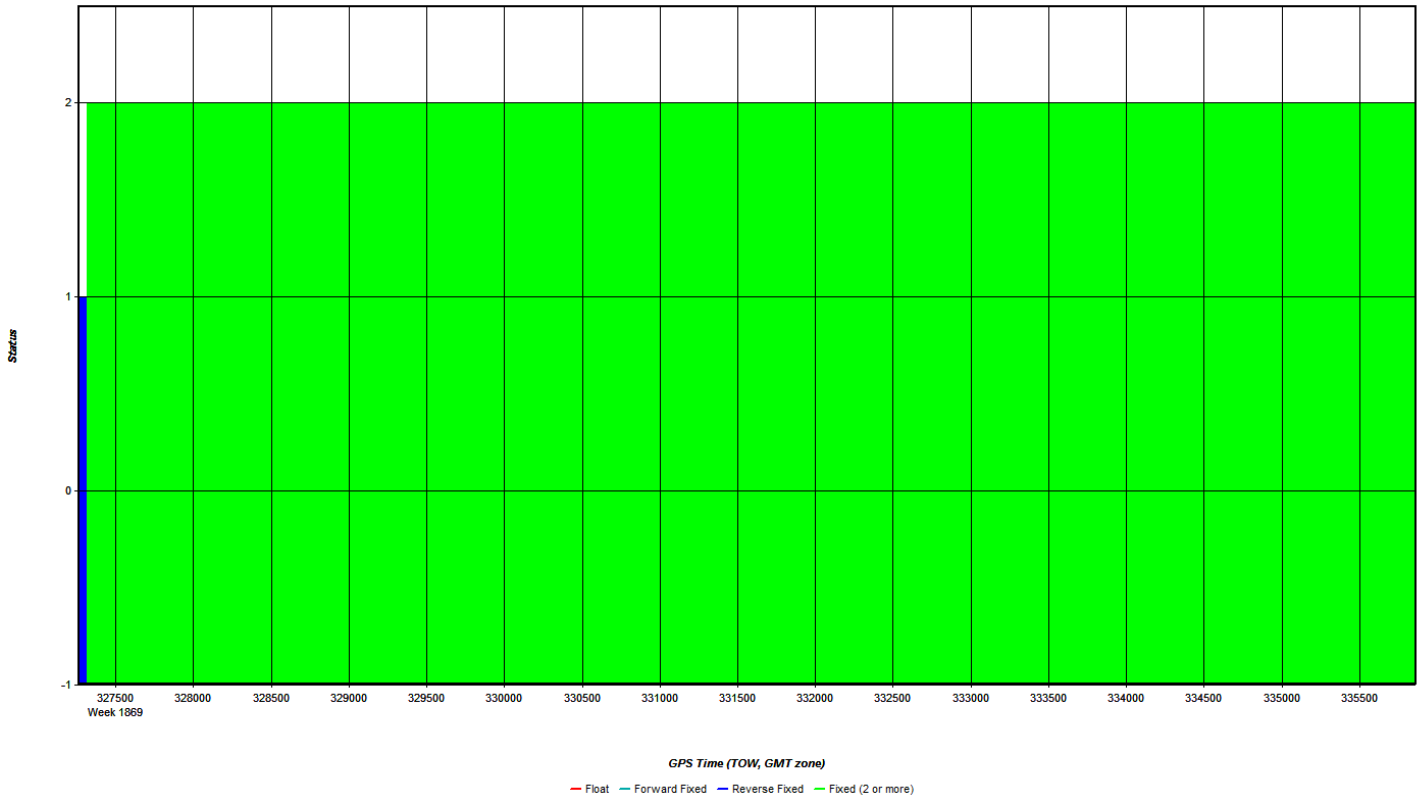












Coordinate/Antenna Settings

Master Remote

Base Station
 2: VTD7 Name: VTD7 Disabled
 File: F:\26818_USGS_CT_River\6KRM\26818_USGS_CT_River_Berli

Coordinates
 Latitude: North 44 23 52.31066 Compute from PPP
 Longitude: West 72 01 32.39267 Enter Grid Values
 Ellipsoidal height: 166.528 m Enter MSL Height
 Datum: NAD83(2011) 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

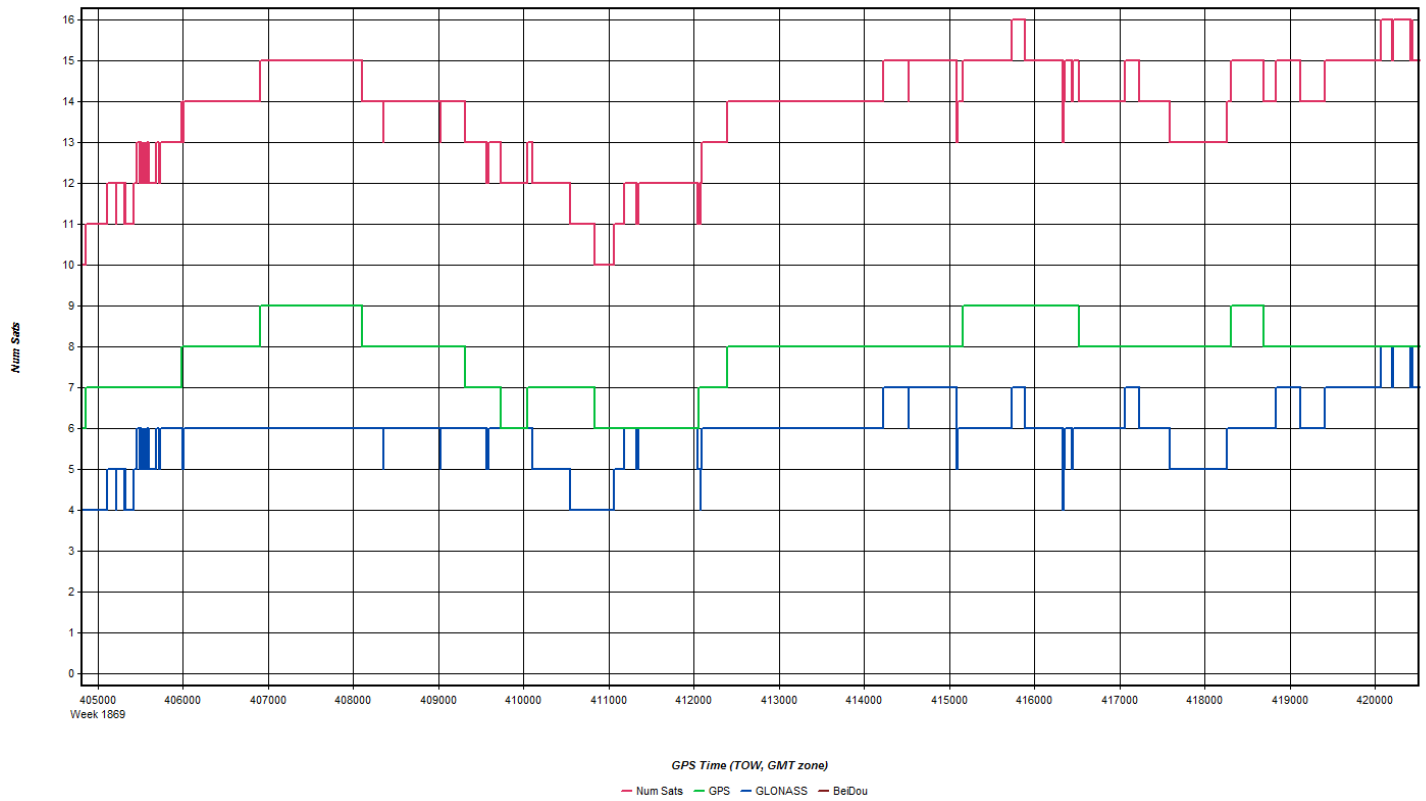
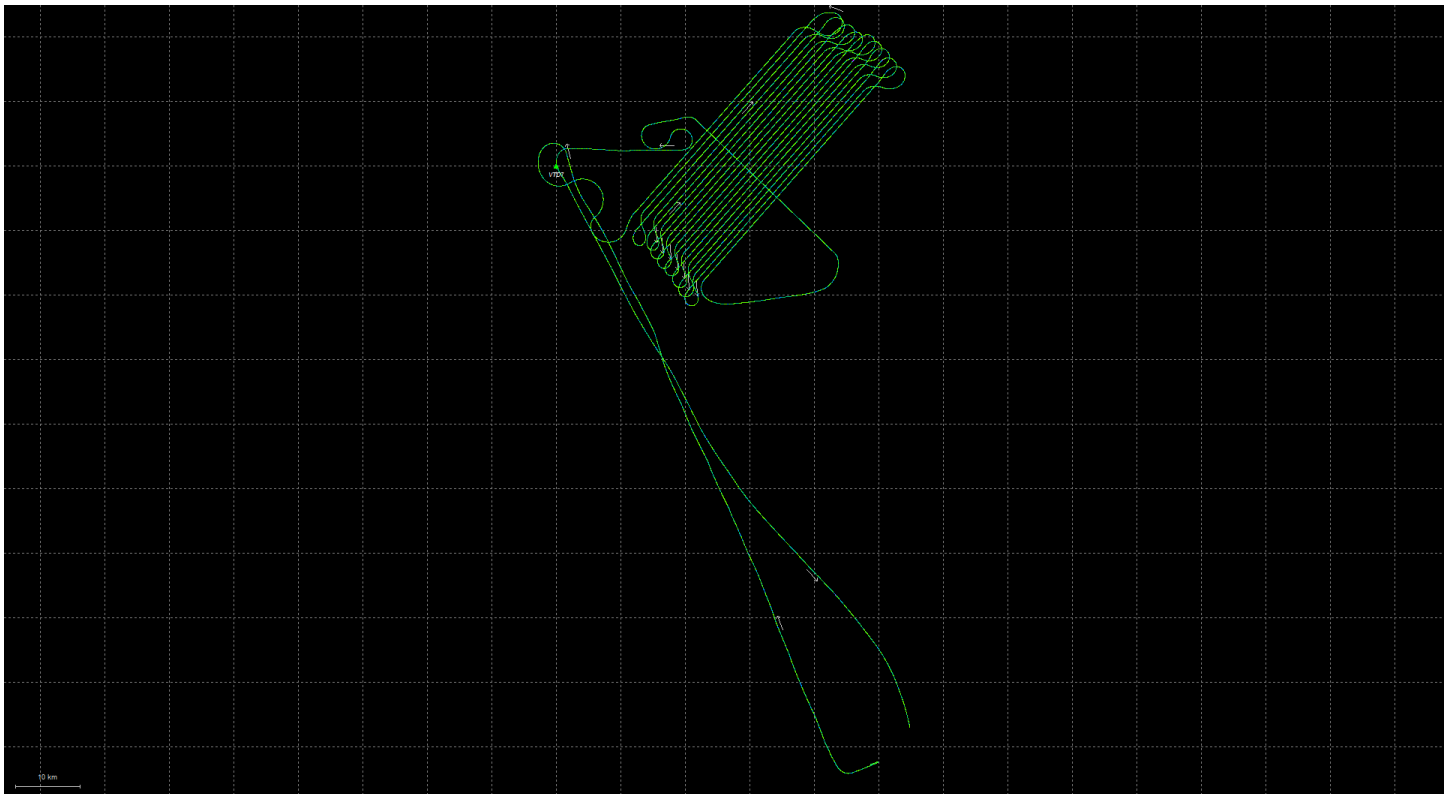
Base Station
 1: VTIP Name: VTIP Disabled
 File: F:\26818_USGS_CT_River\6KRM\26818_USGS_CT_River_Berli

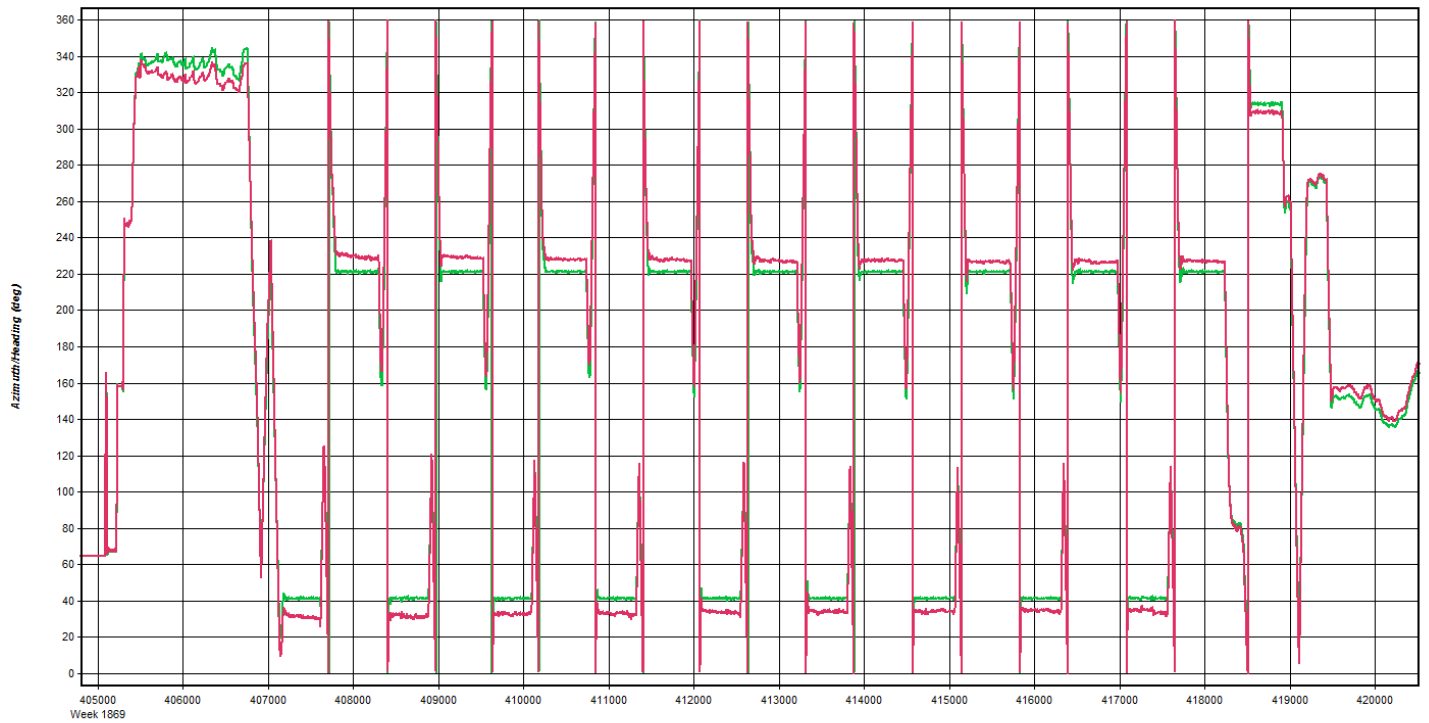
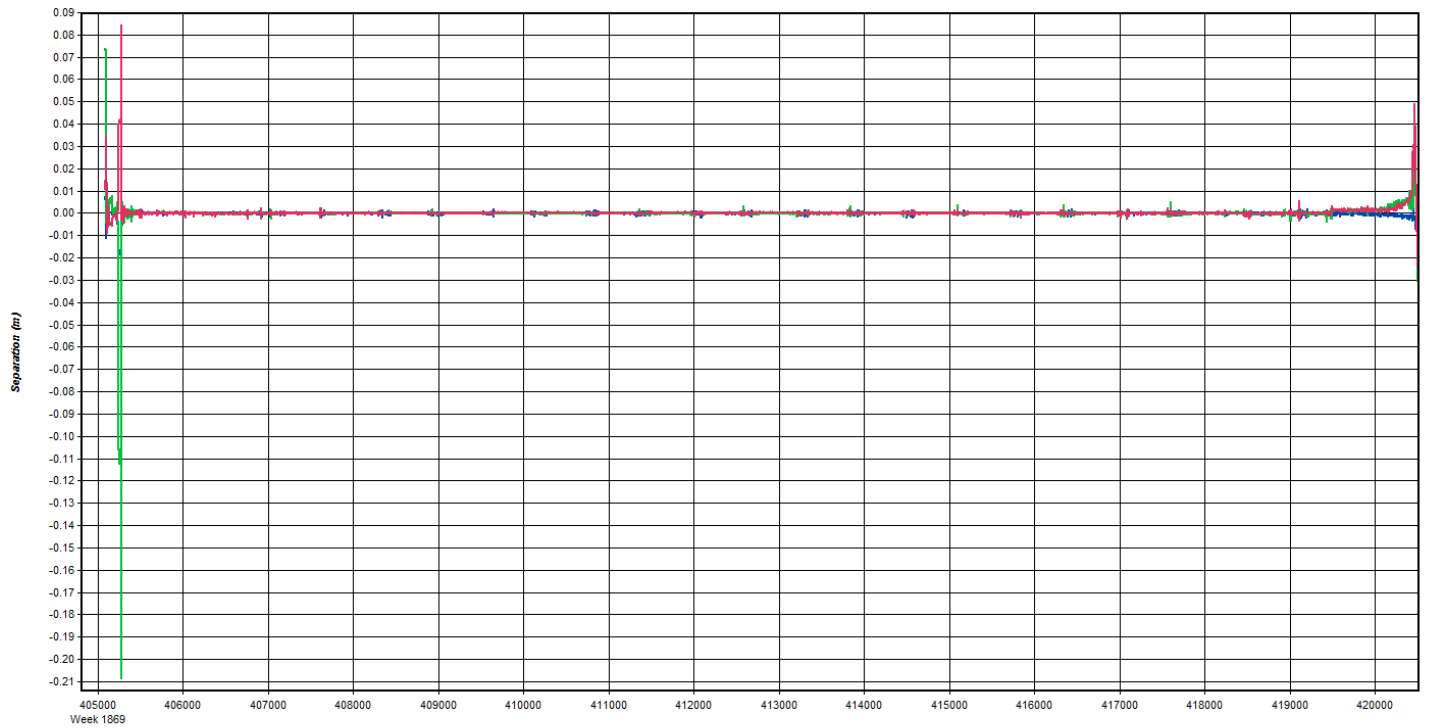
Coordinates
 Latitude: North 44 49 12.18043 Compute from PPP
 Longitude: West 71 53 25.83872 Enter Grid Values
 Ellipsoidal height: 341.732 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

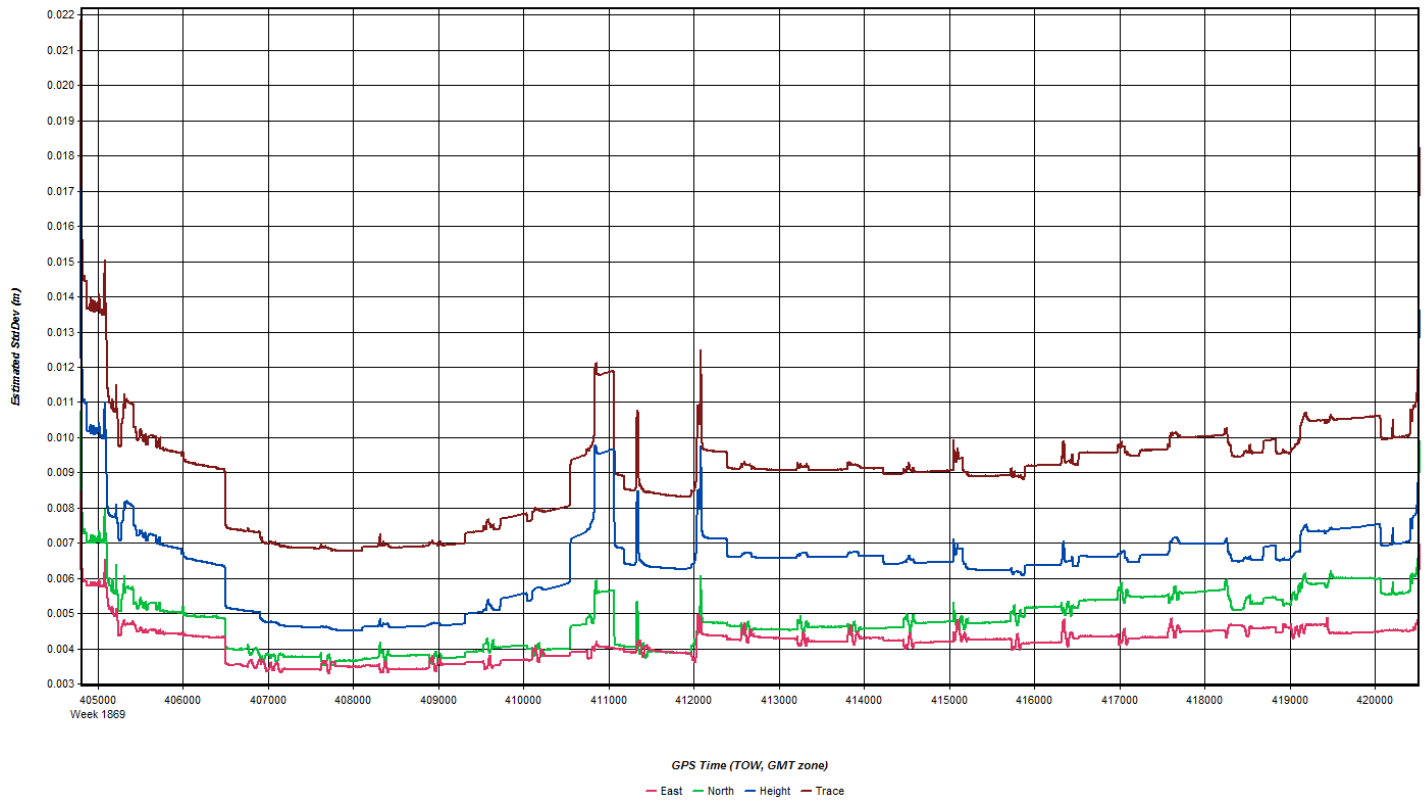
Antenna Height
 From station file: TRM55971.00, NONE View STA File
 Antenna profile: TRM55971.00 Info
 Measured height: 0.000 m
 ARP to L1 offset: 0.067 m
 Applied height: 0.067 m
 Measured to:
 ARP
 L1 Phase Centre
 Compute From Slant

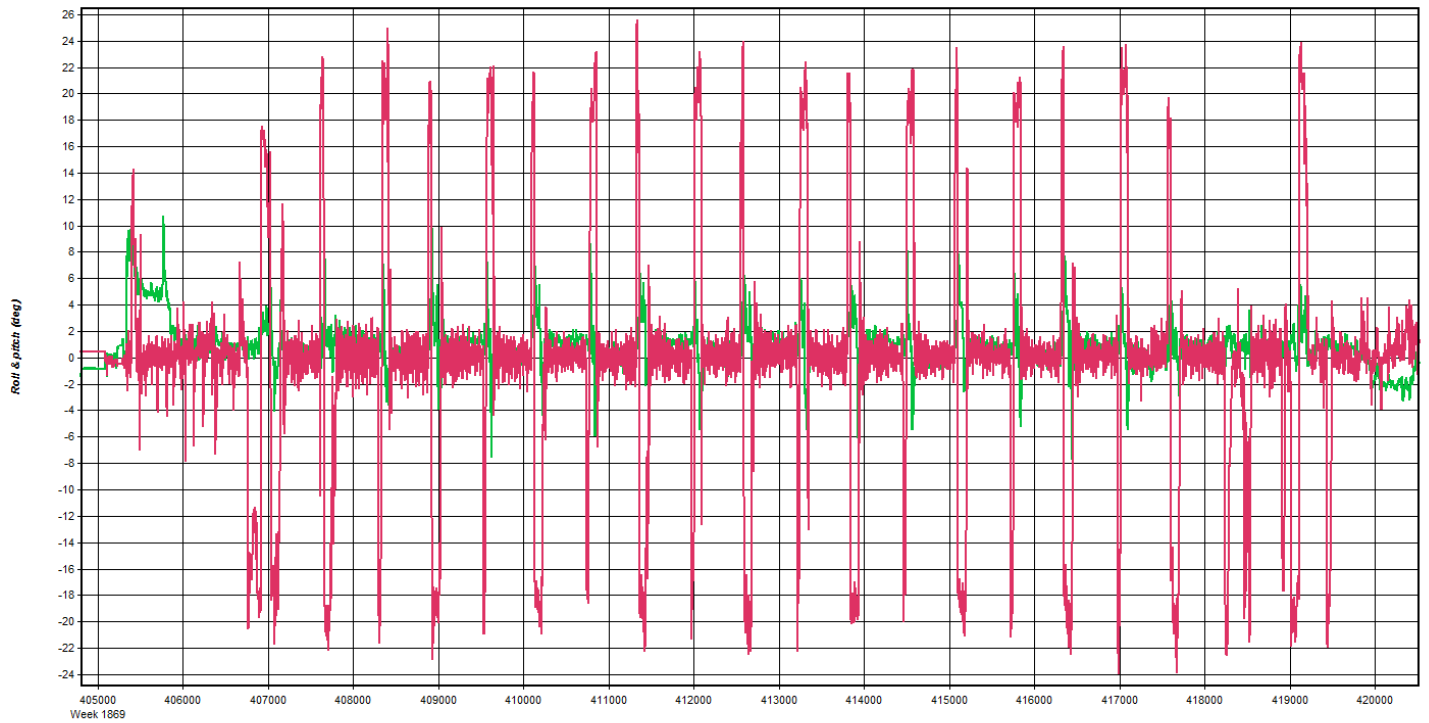
OK Cancel

Nov 05, 2015-A (N6GR, SN7161)



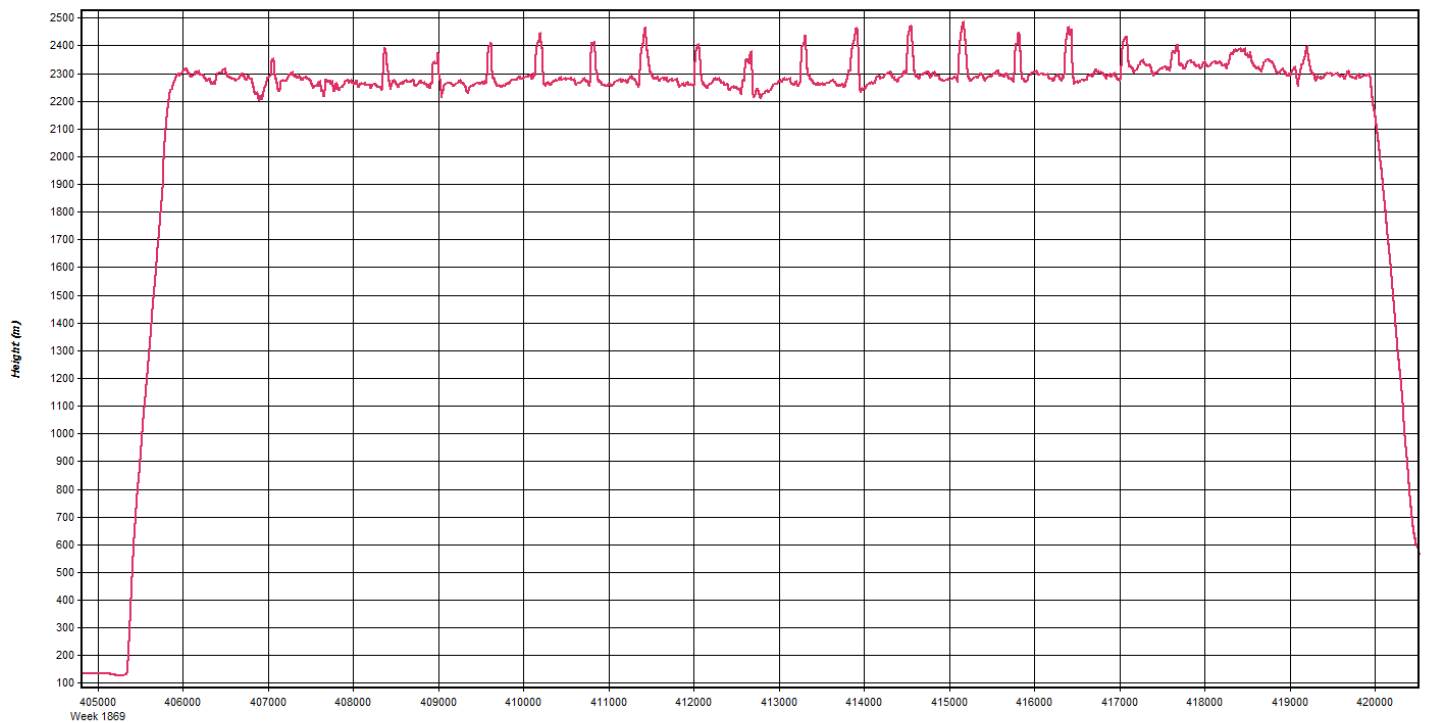






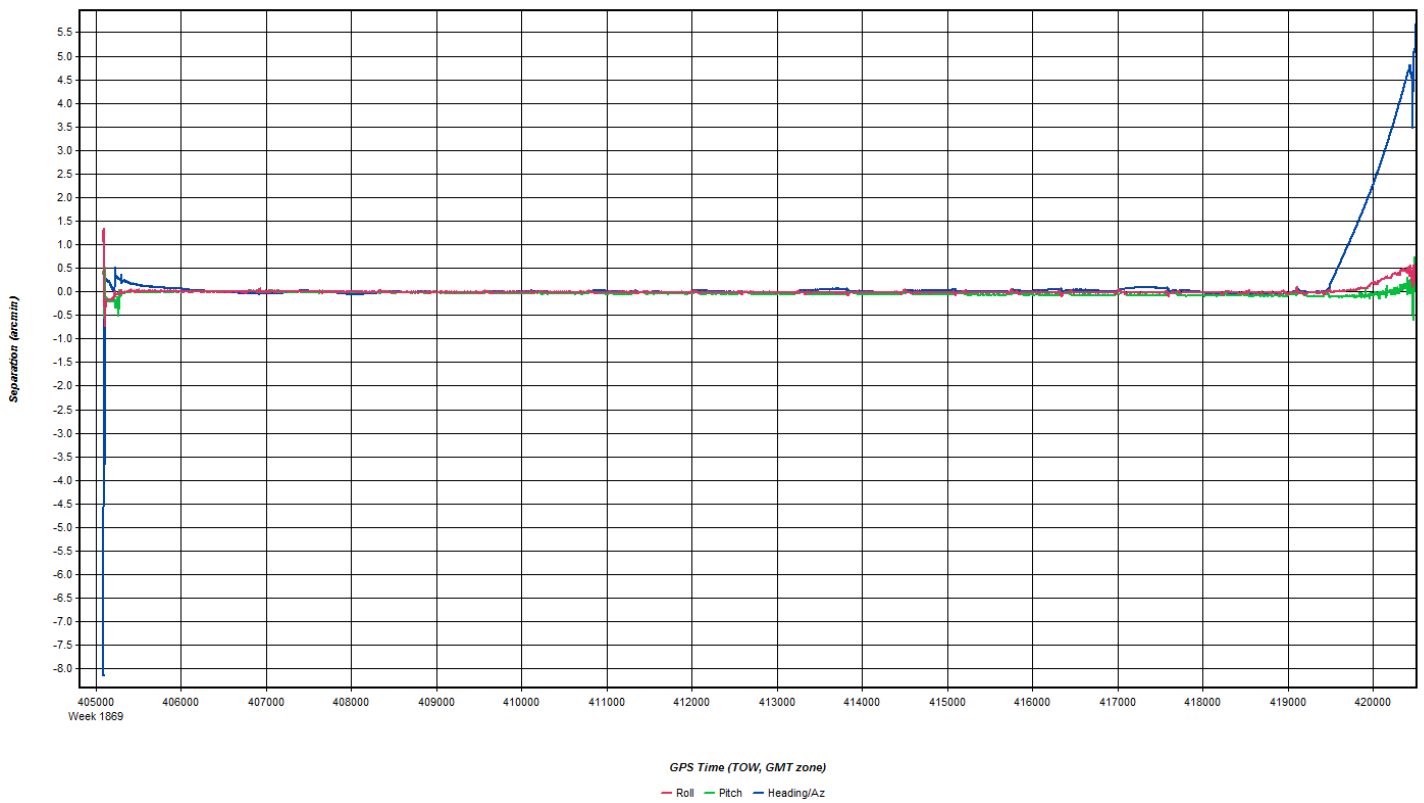
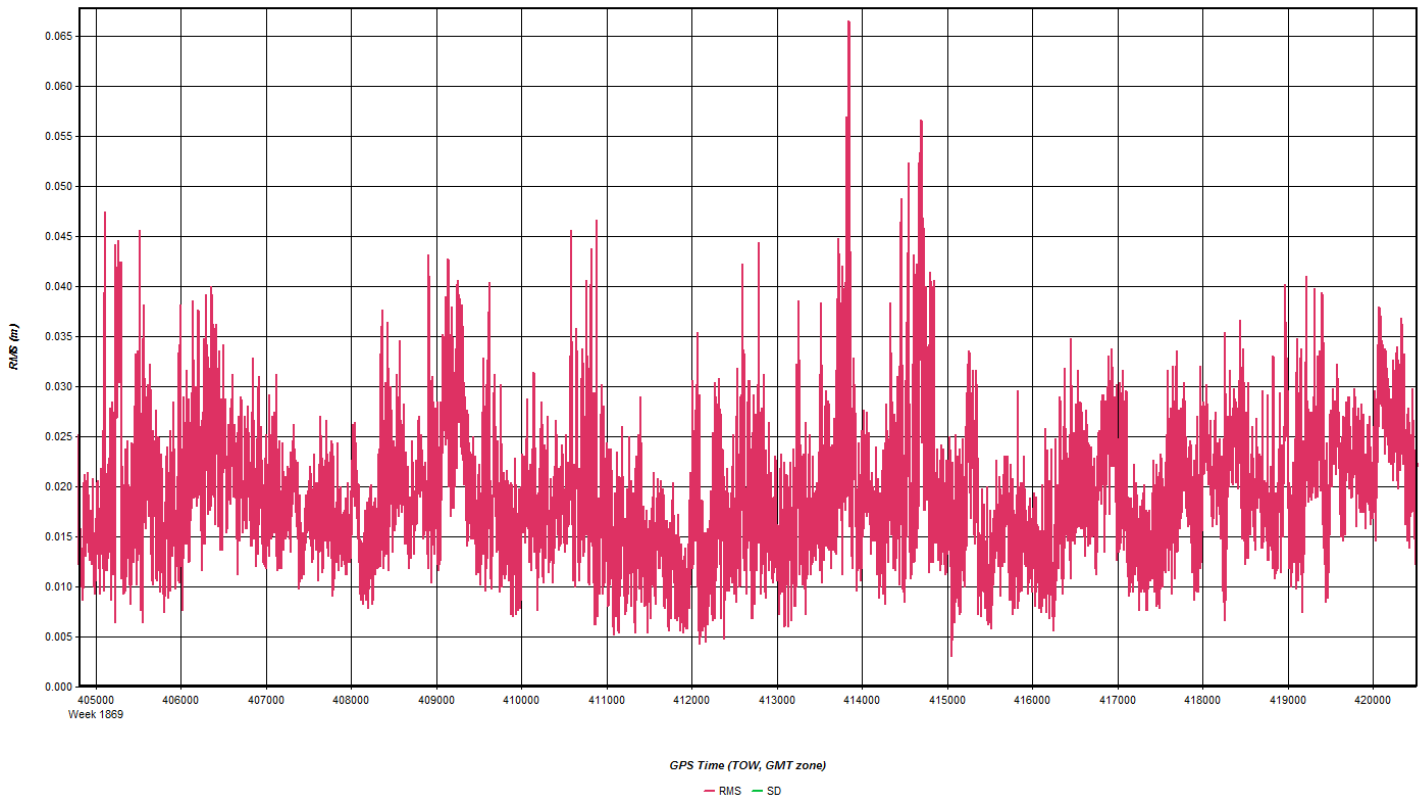
GPS Time (TOW, GMT zone)

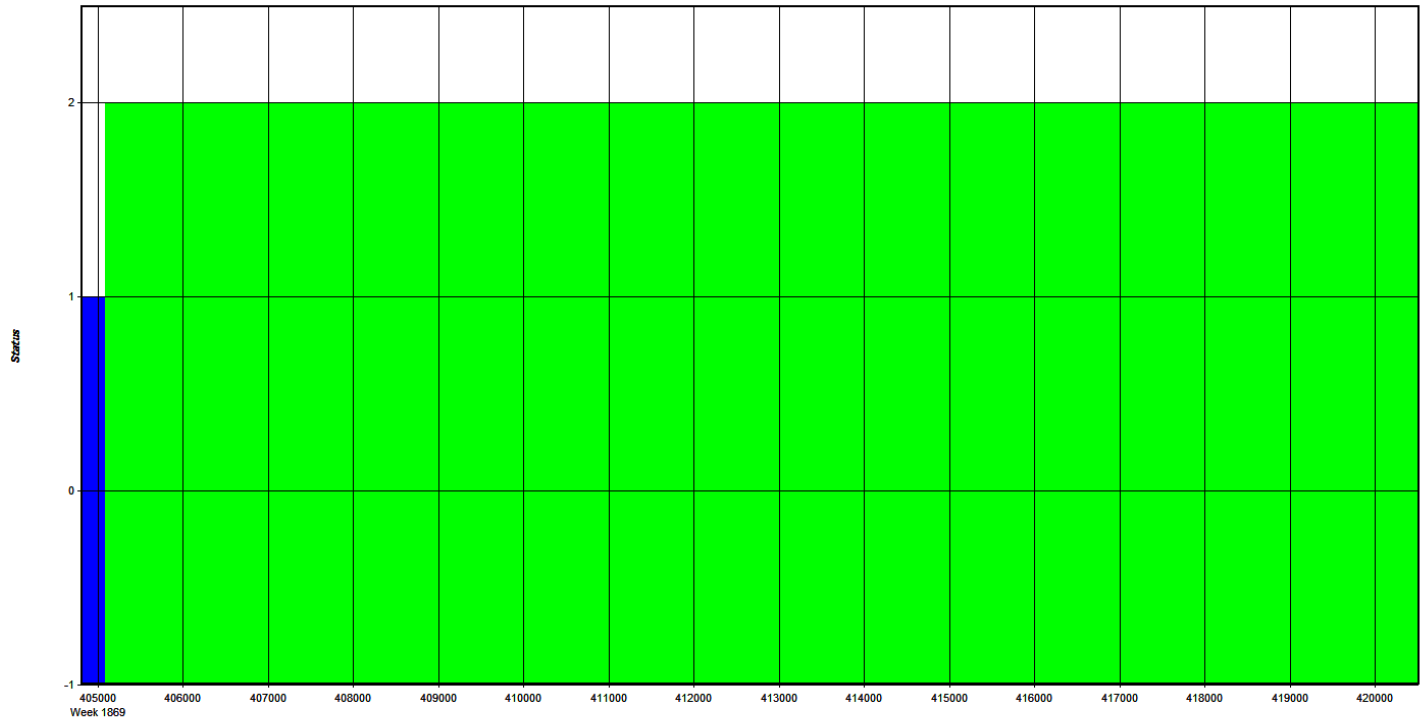
— Roll — Pitch



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
 1: VTD7 Name: VTD7 Disabled
 File: F:\26818_USGS_CT_River\QL25\26818_USGS_CT_River_StJoh

Coordinates
 Latitude: North 44 23 52.31066 Compute from PPP
 Longitude: West 72 01 32.39267 Enter Grid Values
 Ellipsoidal height: 166.528 m Enter MSL Height
 Datum: NAD83(2011) 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

20151105-7401

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Project Name 2015 CT RIVER ST. WISCONSIN		Date Flown 11/5/2015	
Project Number 2015		Takeoff Time 16:35 Z	
Flight Plan File 2015-01-RIVER-ST-WISCONSIN		Landing Time 25:51 Z	

Pilot BILLYMORAN	Tech HOLT	Aircraft NEGR
---------------------	--------------	------------------

Data Information	
IPAS File Name 20151105-7401	Field Elev. 1072'
From/To 000 -> 030	Begin Temp 15°C
LDAR Unit # s/n 7161	Begin Dewpoint 8°C
HD # 016	Begin Pressure 30.17
	Mid Temp 19°C
	Mid Dewpoint 8°C
	Mid Pressure 30.15
	End Temp 21°C
	End Dewpoint 9°C
	End Pressure 30.11

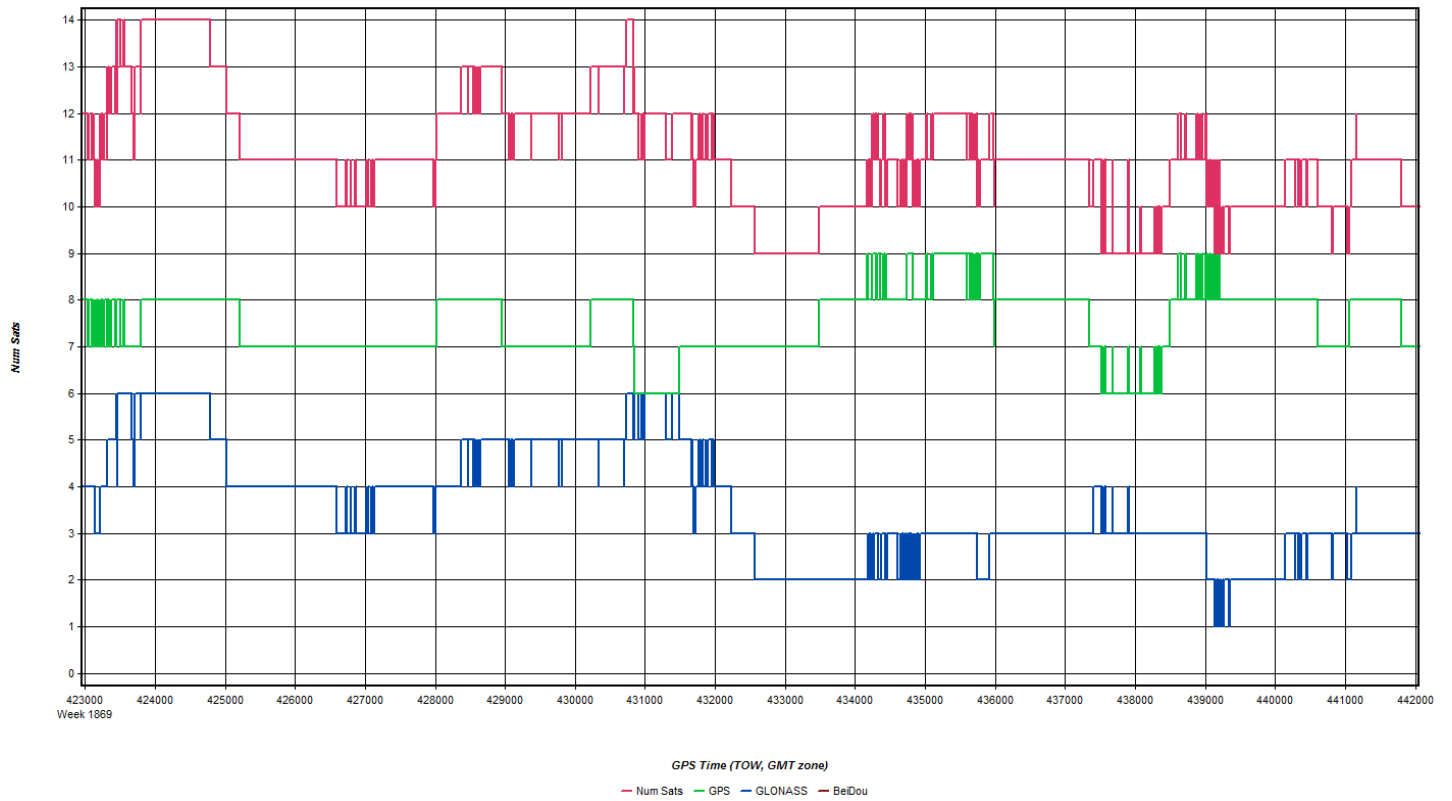
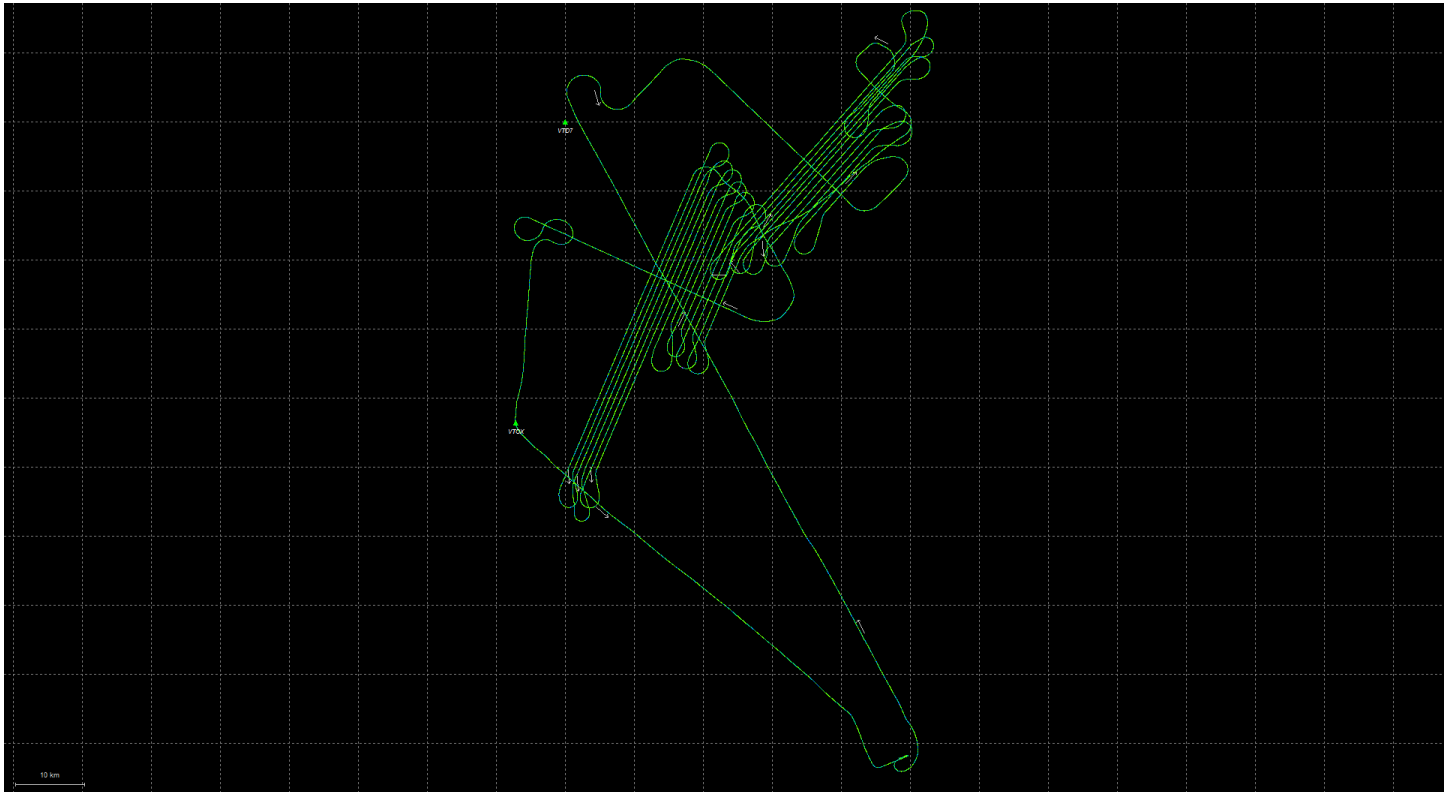
Project's Scanning Requirements	
FOV (degrees): 40%	Laser Current(%): 100
Scan Rate (Hz): 534	Altitude AGL (ft): 1000
Pulse Rate (Hz): 131700	Range Gate (m): 130-1100
Ground Speed (kts): 110	

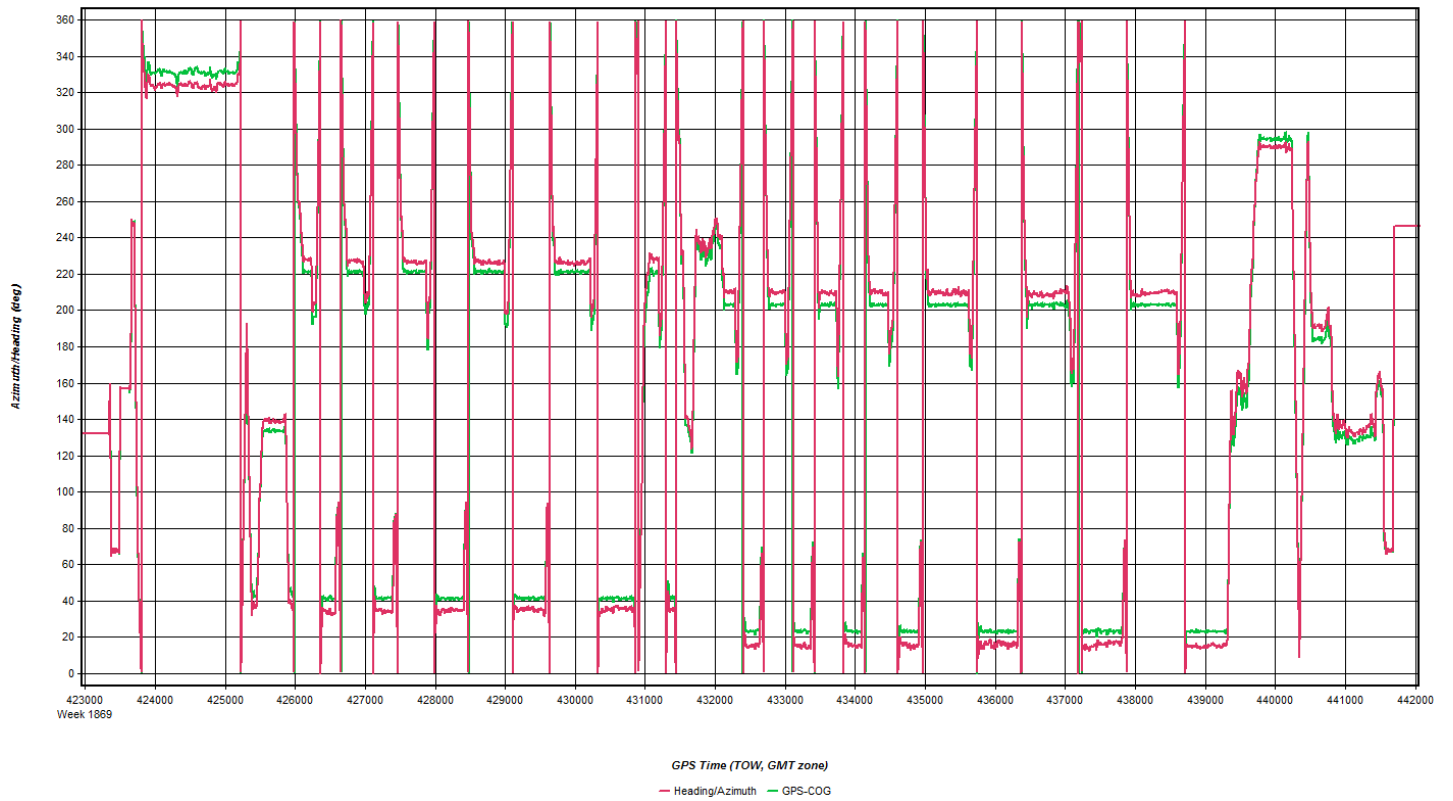
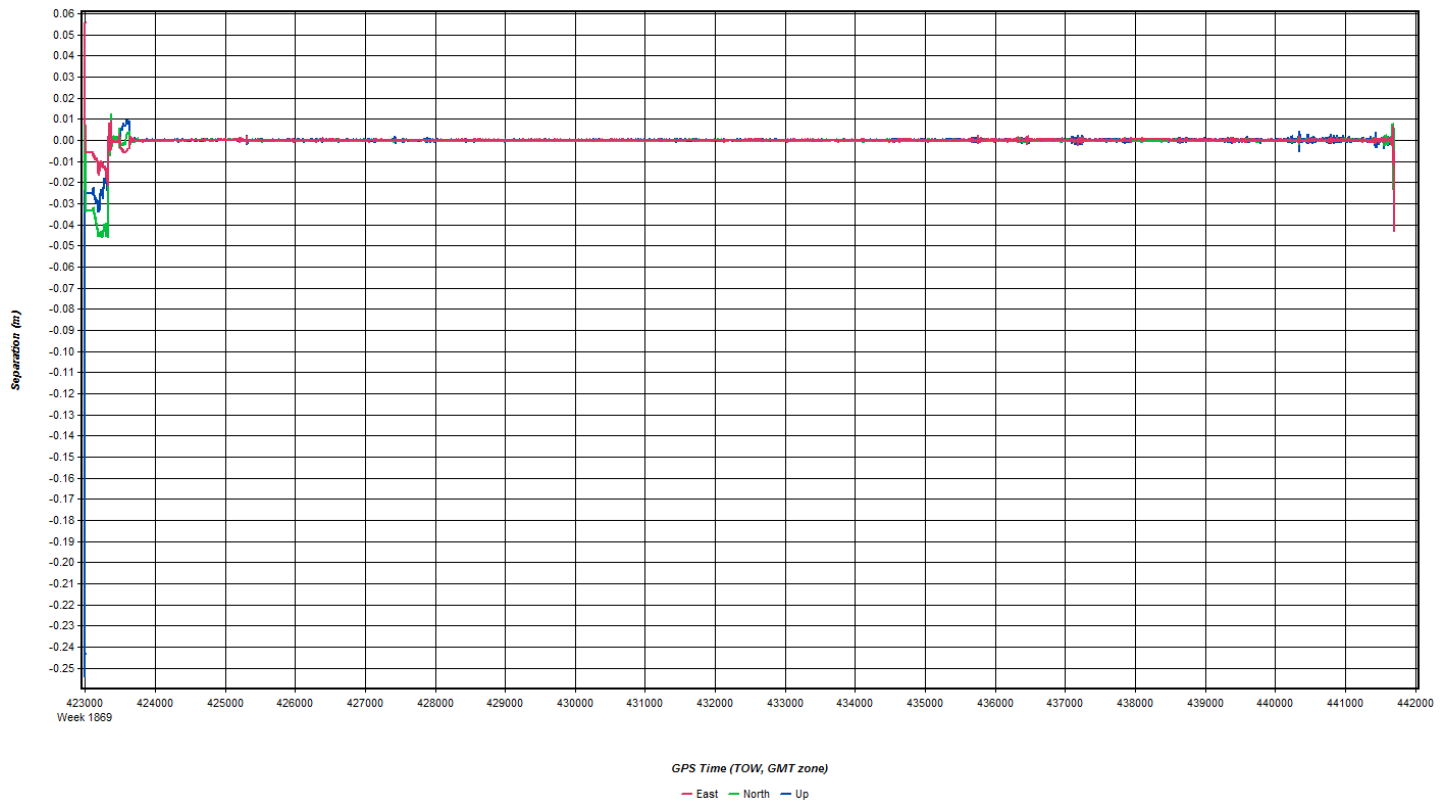
FCMS File Name 20151105-160127	start	stop
GPS Base Location(s) VT07 CAR		
Static or Flyover? FLYOVER		
Laser On Time & Off Times 16:27 Z / 20:48 Z		

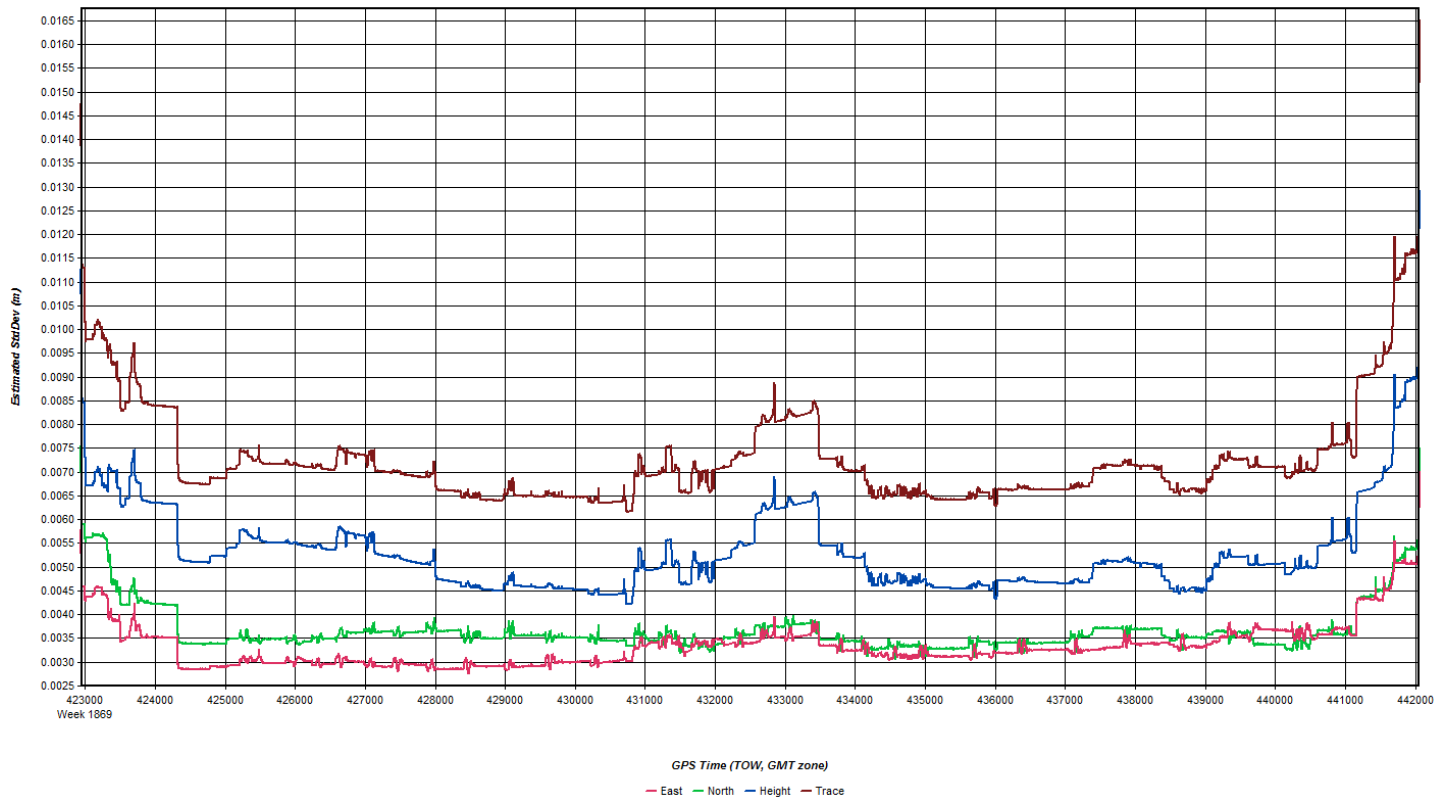
BASE- ABGPS- HOBBS-	10:20E 31035	2448E 31678
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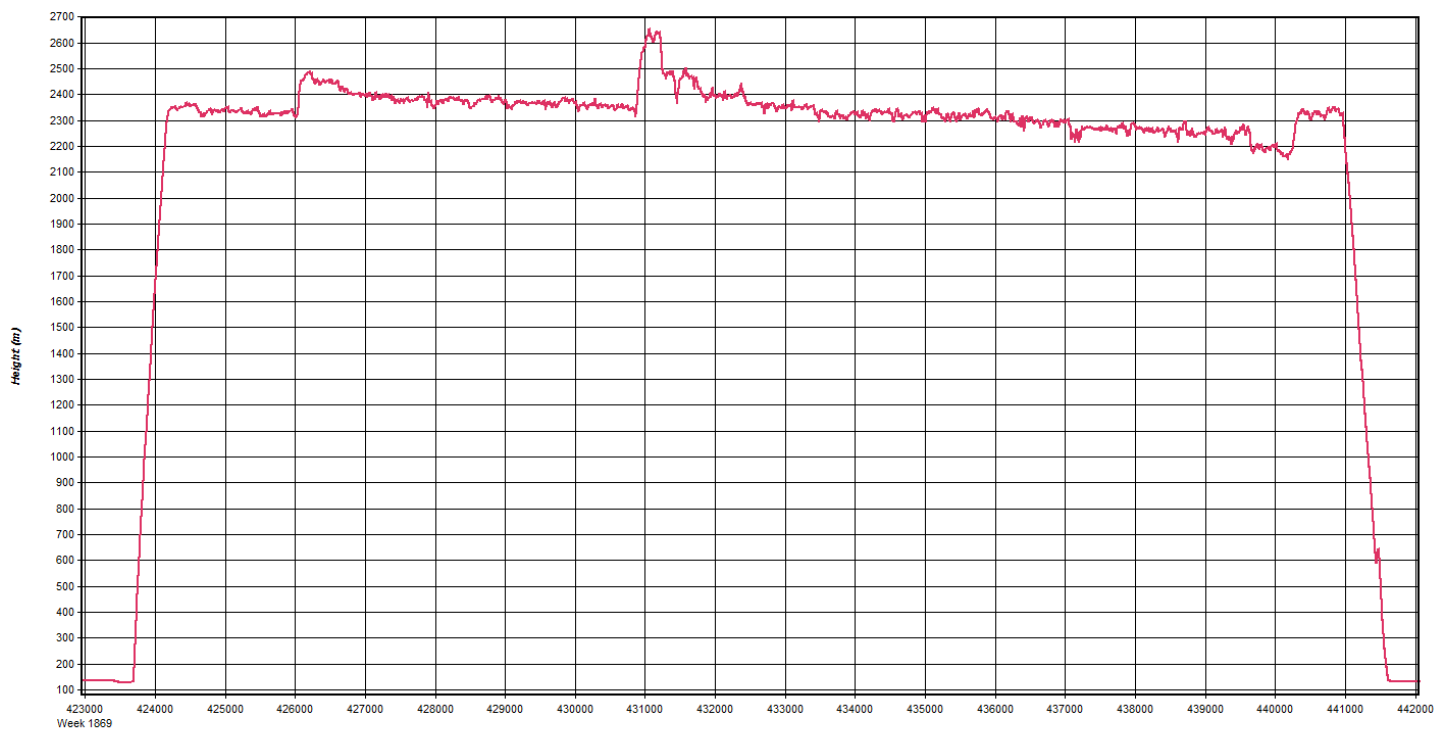
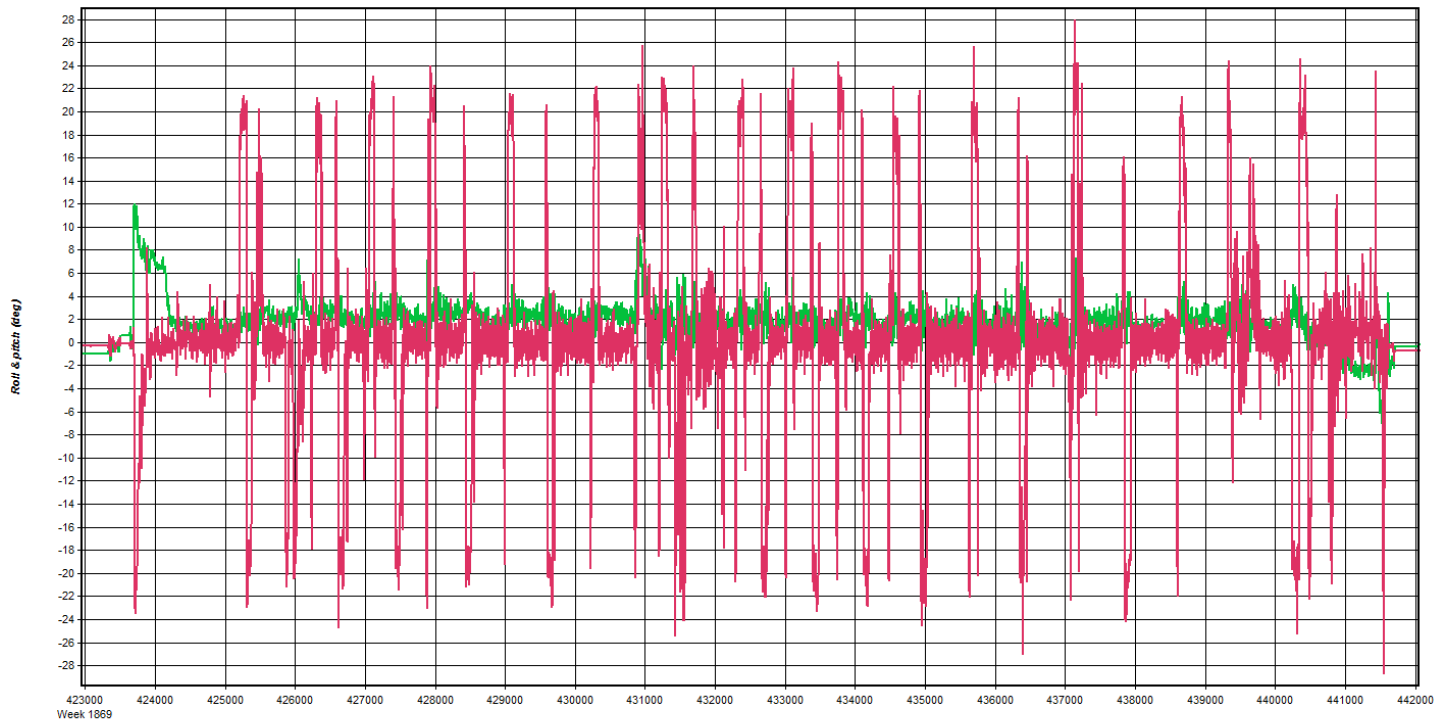
FILE	FL #	Alt. (AMSL)	Heading	Speed	Returns	Crab	PDOP	NOTES
170627	A01	7490	41	105	100%	0	1.3	CLOUD LAYER @ 1000'. WIND 27@ 24 kts
171702	A02	7490	221	144	100%	0	1.3	WIND 27@ 24 kts
172725	A03	7460	41	162	96%	0	1.2	" 293@ 30 kts
173740	A04	7490	221	151	96%	0	1.0	" 275@ 27 "
174726	A05	7506	41	170	100%	0	1.1	" 296@ 29 "
175745	A06	7533	221	155	100%	0	0.9	" 293@ 36 "
180753	A07	7490	41	170	100%	0	1.1	" 294@ 27 "
181807	A08	7431	221	158	100%	0	1.0	" 278@ 33 "
182823	A09	7431	41	170	99%	0	1.2	" 280@ 23 "
183843	A10	7464	221	156	100%	0	1.2	" 275@ 31 "
184901	A11	7487	41	173	100%	0	1.2	" 301@ 23 "
185926	A12	7529	221	161	100%	0	1.1	" 271@ 30 "
190957	A13	7562	41	174	100%	0	1.1	" 302@ 24 "
192026	A14	7575	221	158	100%	0	1.1	" 270@ 28 "
193059	A15	7582	41	176	99%	0	1.1	" 295@ 23 "
194118	A16	7611	221	157	100%	0	1.2	" 275@ 30 "
195153	A17	7664	41	173	100%	0	1.3	" 296@ 23 "
200221	A18	7707	221	153	100%	0	1.1	" 273@ 28 "
201592	A29	7539	314	156	100%	0	1.2	" 275@ 24 "

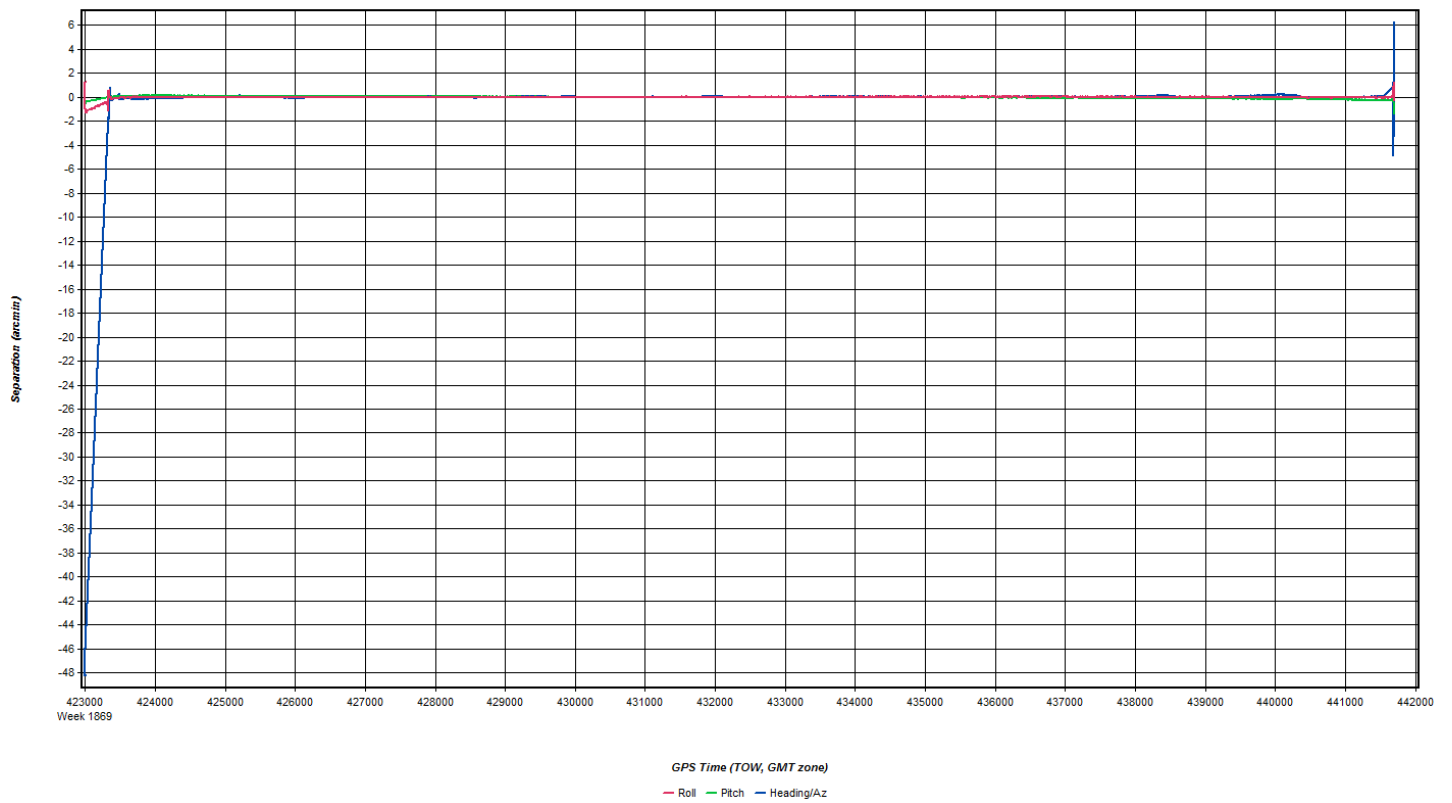
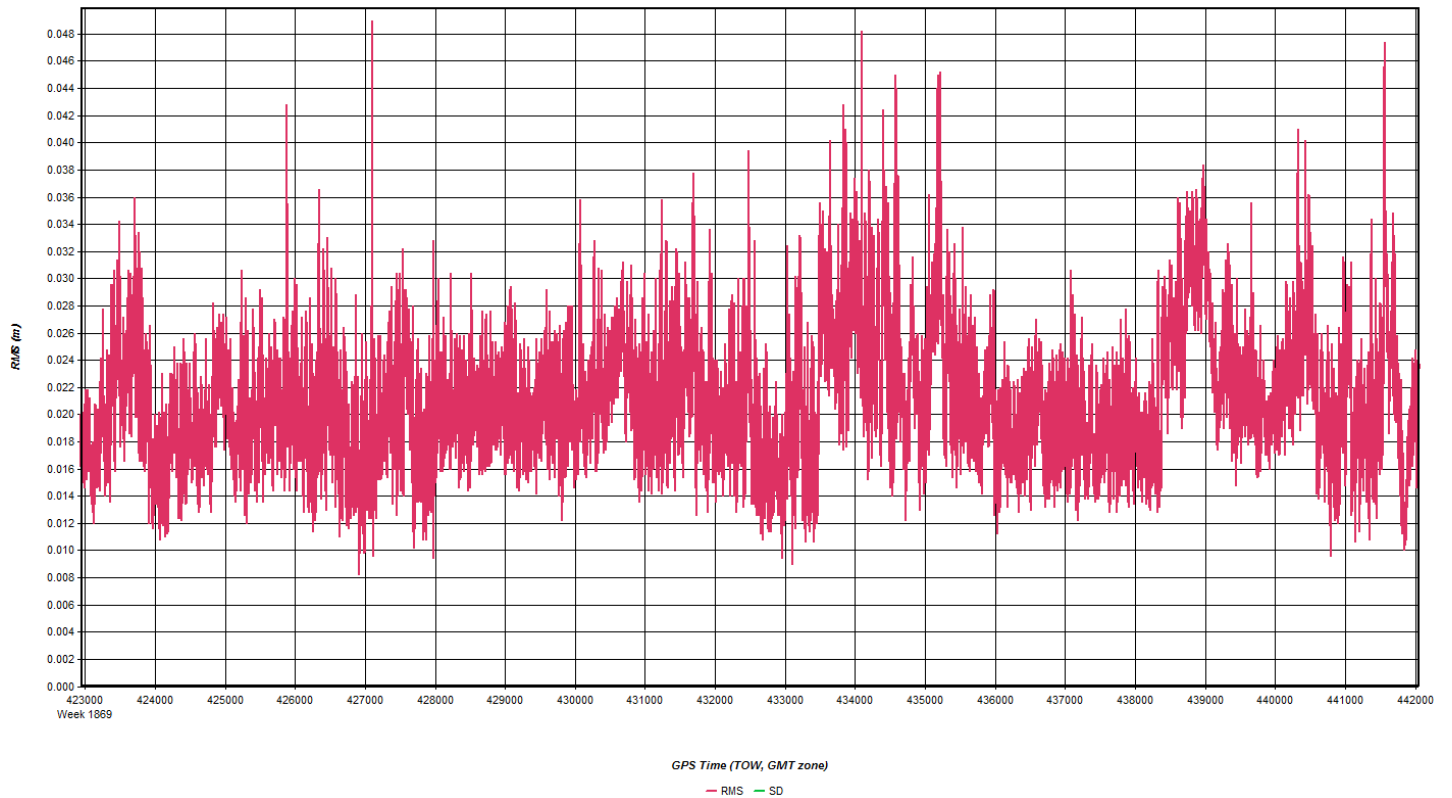
Nov 05, 2015-B (N6GR, SN7161)

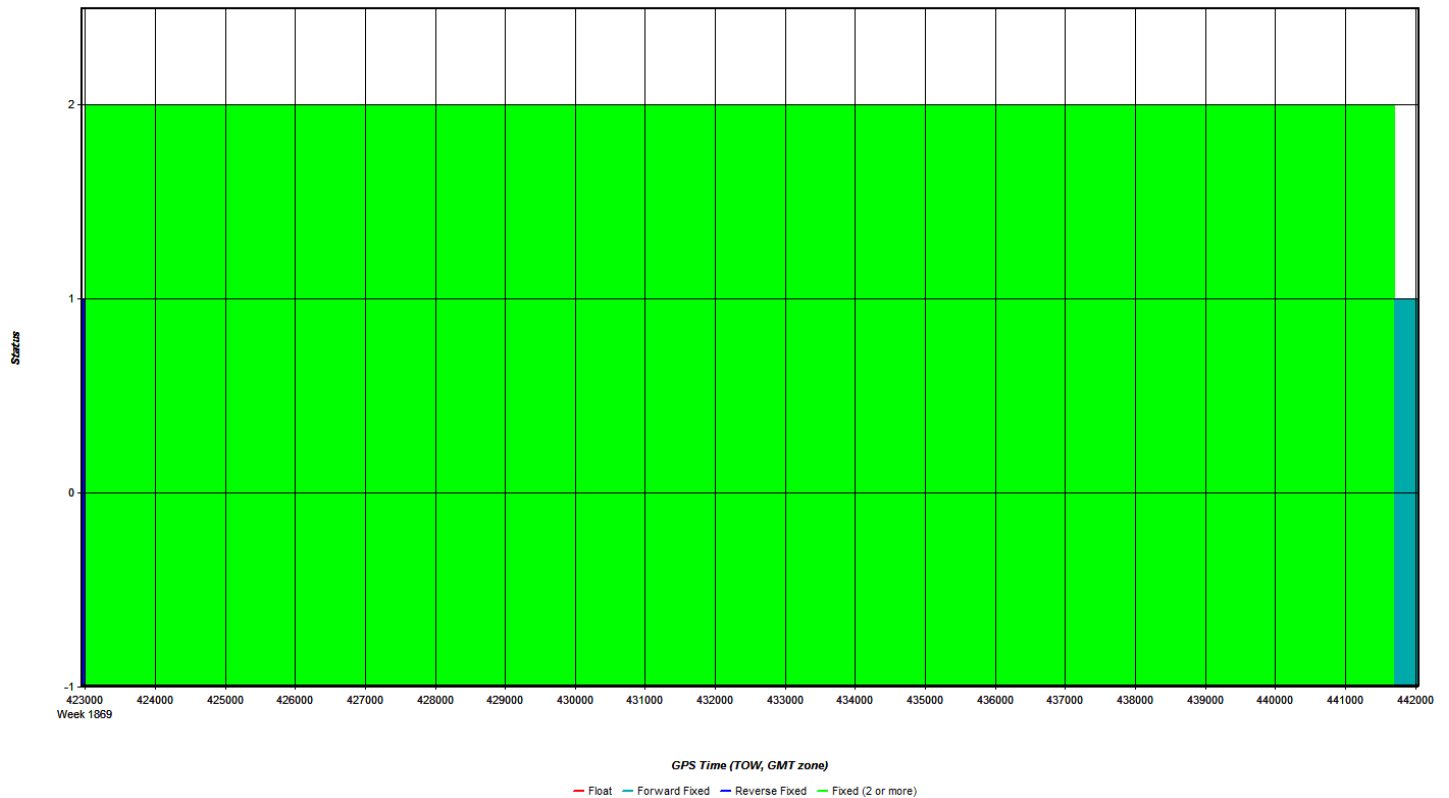












Coordinate/Antenna Settings

Master Remote

Base Station
 2: VTOX Name: VTOX Disabled
 File: F:\26818_USGS_CT_River\QL25\26818_USGS_CT_River_StJoh

Coordinates
 Latitude: North 44 00 28.16564 Compute from PPP
 Longitude: West 72 06 51.60957 Enter Grid Values
 Ellipsoidal height: 126.405 m Enter MSL Height
 Datum: NAD83(2011) 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: VTD7 Name: VTD7 Disabled
 File: F:\26818_USGS_CT_River\QL25\26818_USGS_CT_River_StaJoh

Coordinates
 Latitude: North 44 23 52.31066 Compute from PPP
 Longitude: West 72 01 32.39267 Enter Grid Values
 Ellipsoidal height: 166.528 m Enter MSL Height
 Datum: NAD83(2011) 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

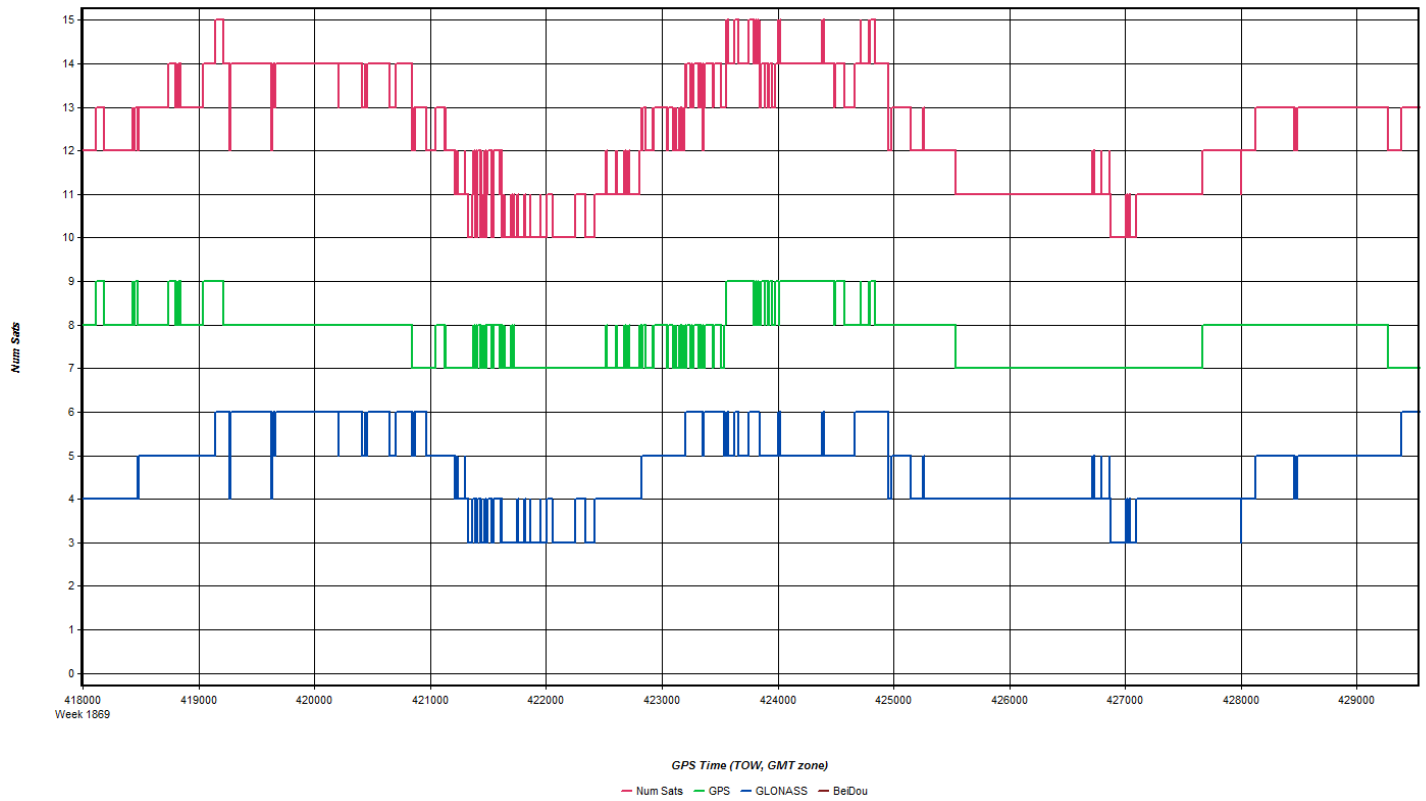
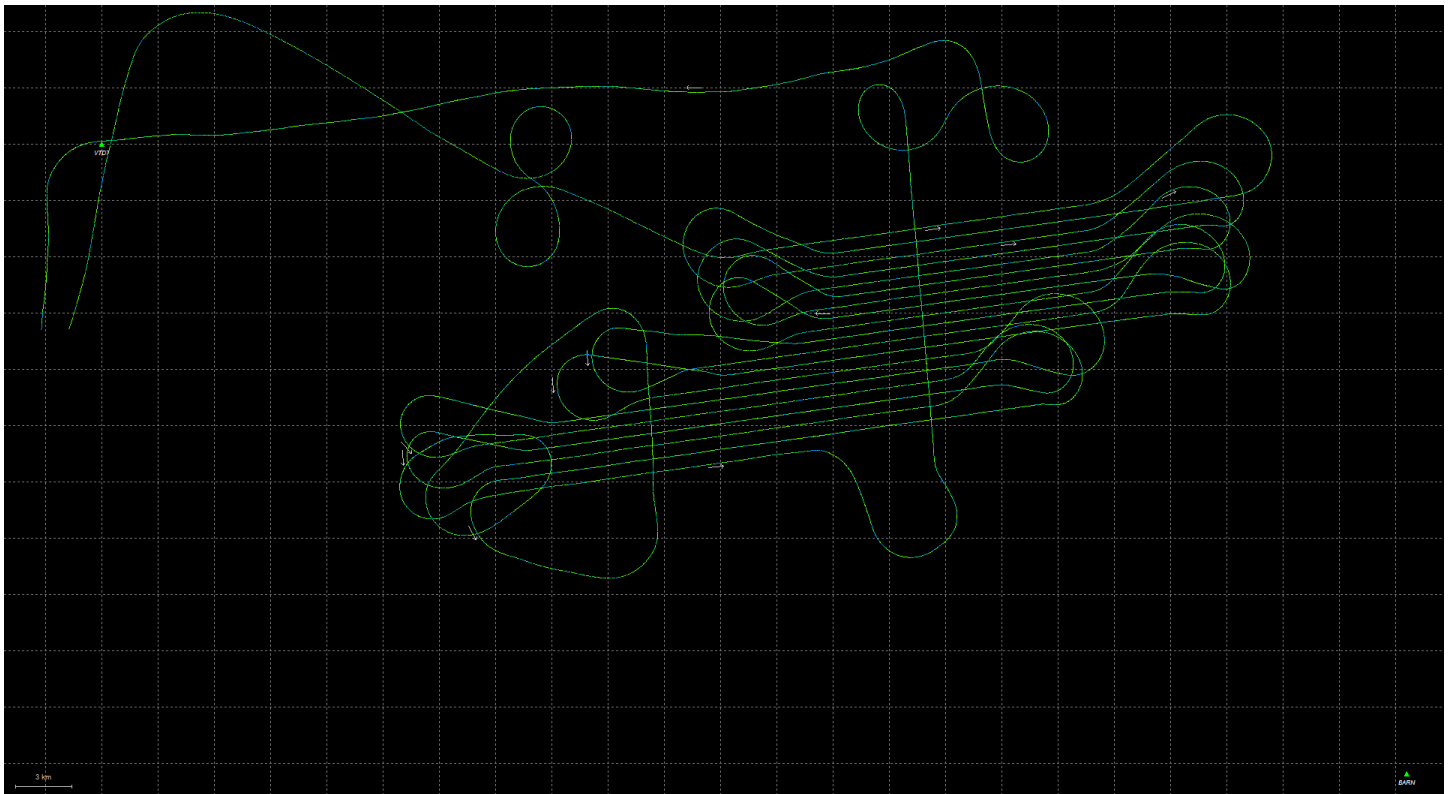
OK Cancel

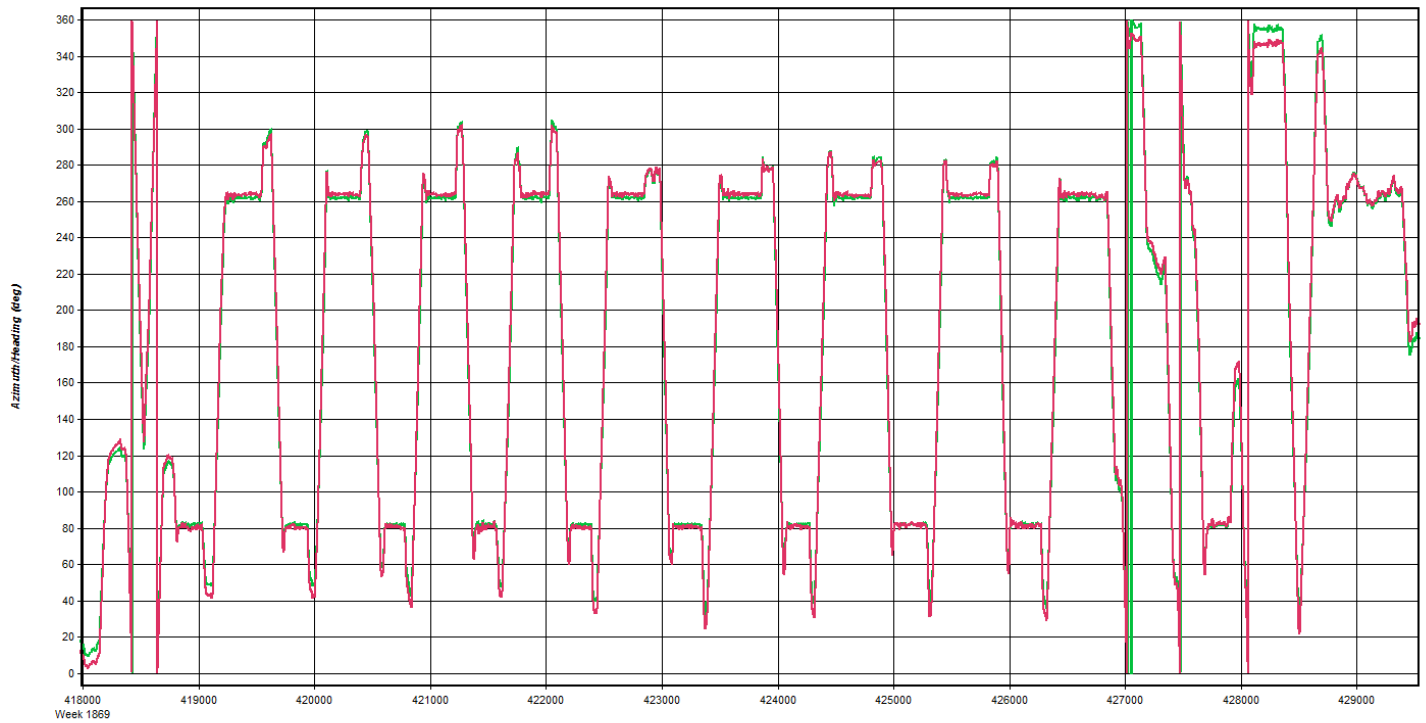
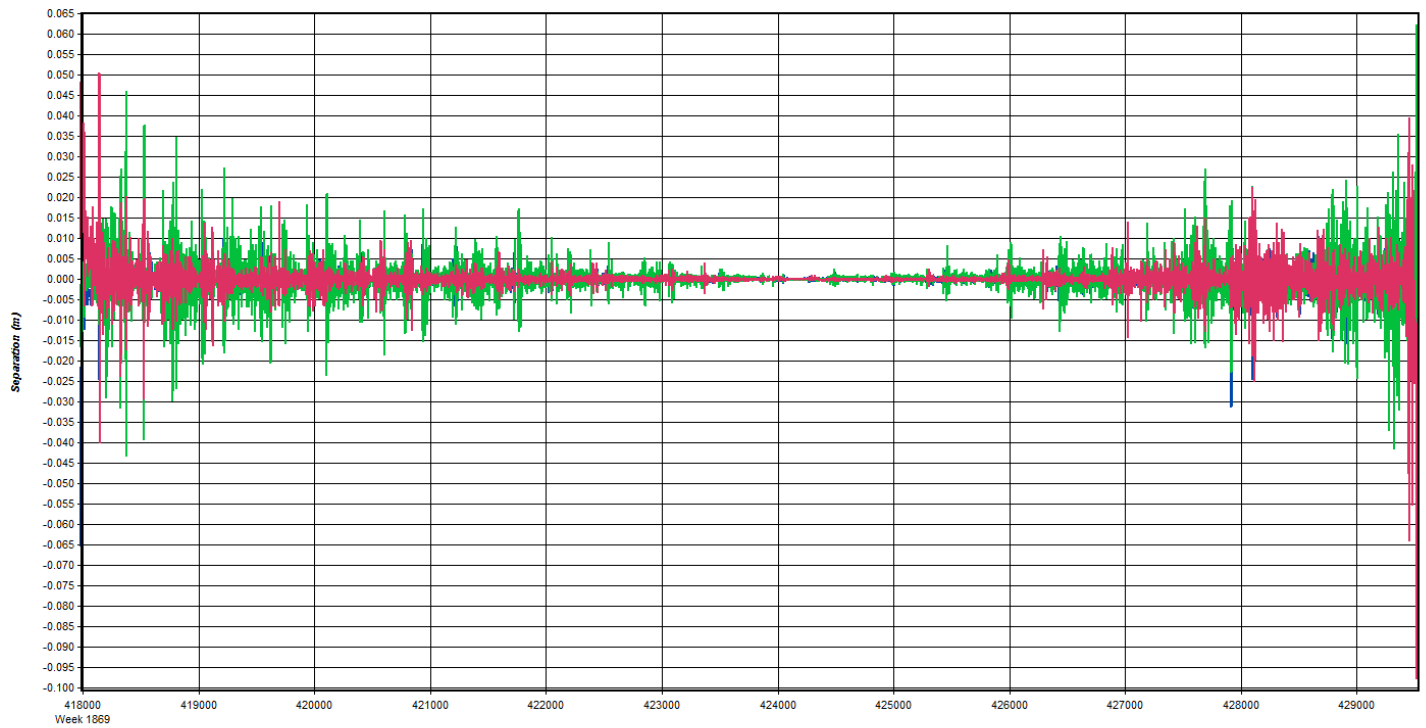
Flight Log

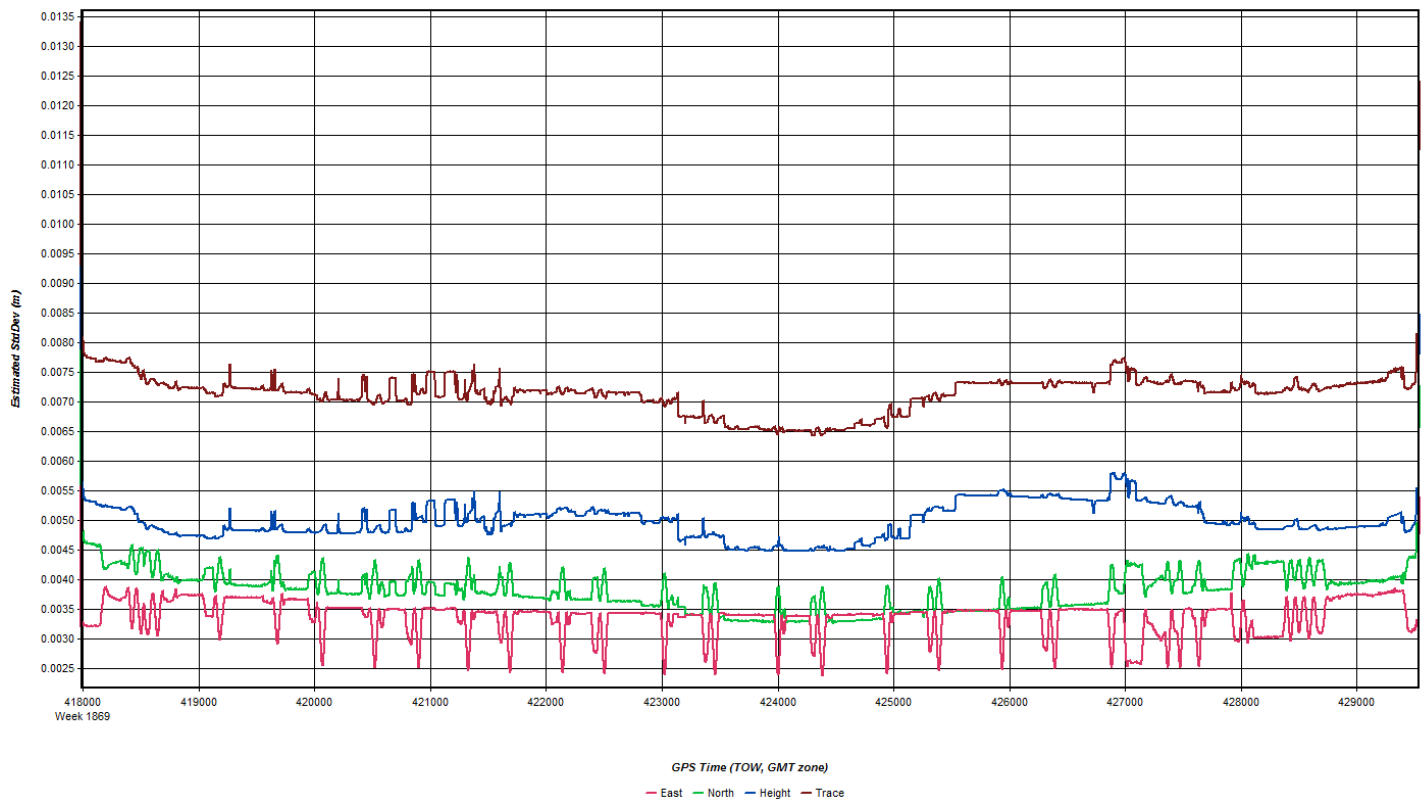
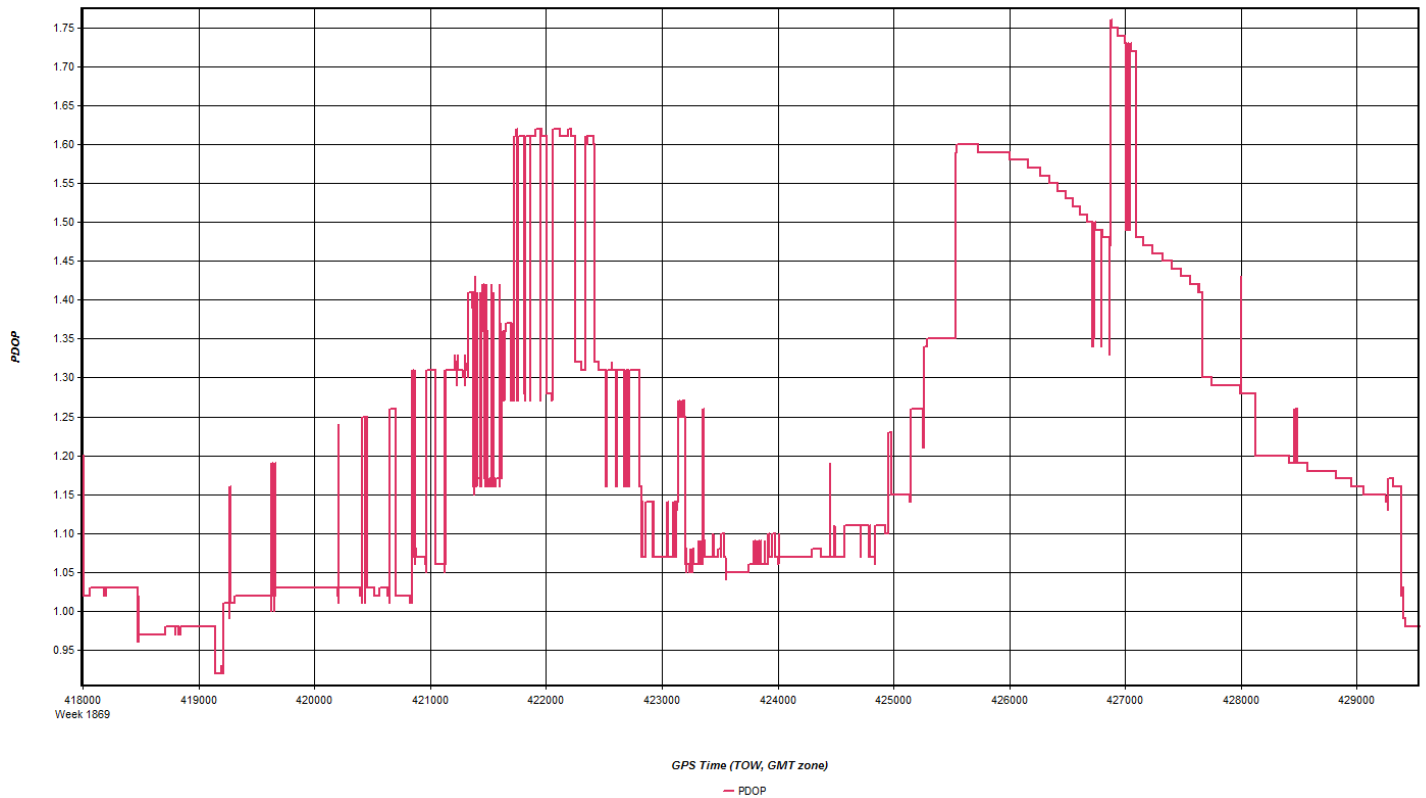
PROJECT NUMBER AND NAME		LINE		GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF KHZ	FIXED GAIN	Flying Ht. (m) Feet	TIME		REMARKS
		No.	Hdg							START	STOP	
MISSION: 20151105-212403 B		OPERATOR: CAREY		DATE: 11-5-15		AIRCRAFT: N6GR		LEICA ALS-70 7161		REI		
PILOT: JACOBSON												
26818												LCT → SITE
St Johnsberry North												CORS F.O. VTD7 442387 720154
												FIG 8
				160		53		40		2212		2217 15 XFLT
		29 A29		134						2206		
		28 A28		221						2208		
		27 A27		41						2222		St. Johnsberry - North PLAD
		26 A26		221						2227		
		25 A25		41						2232		
		24 A24		221						2239		
		23 A23		041						2245		
		22 A22		221						2254		
		21 A21		41						2302		
		20 A20		221						2312		
		19 A19		41						2322		
		31 A31		221						2332		
		30 A30		41						2345		
		X FLT								2349		
										2353		XFLT for 31/30
												SITE → SITE .1
STATUS		TOTAL LINES		FLOWN		LEFT		AIRCRAFT SITE		FERRY		NOTES:
26818												LOG 1
St. Johnsberry North		13/31		14		1.8		.6				

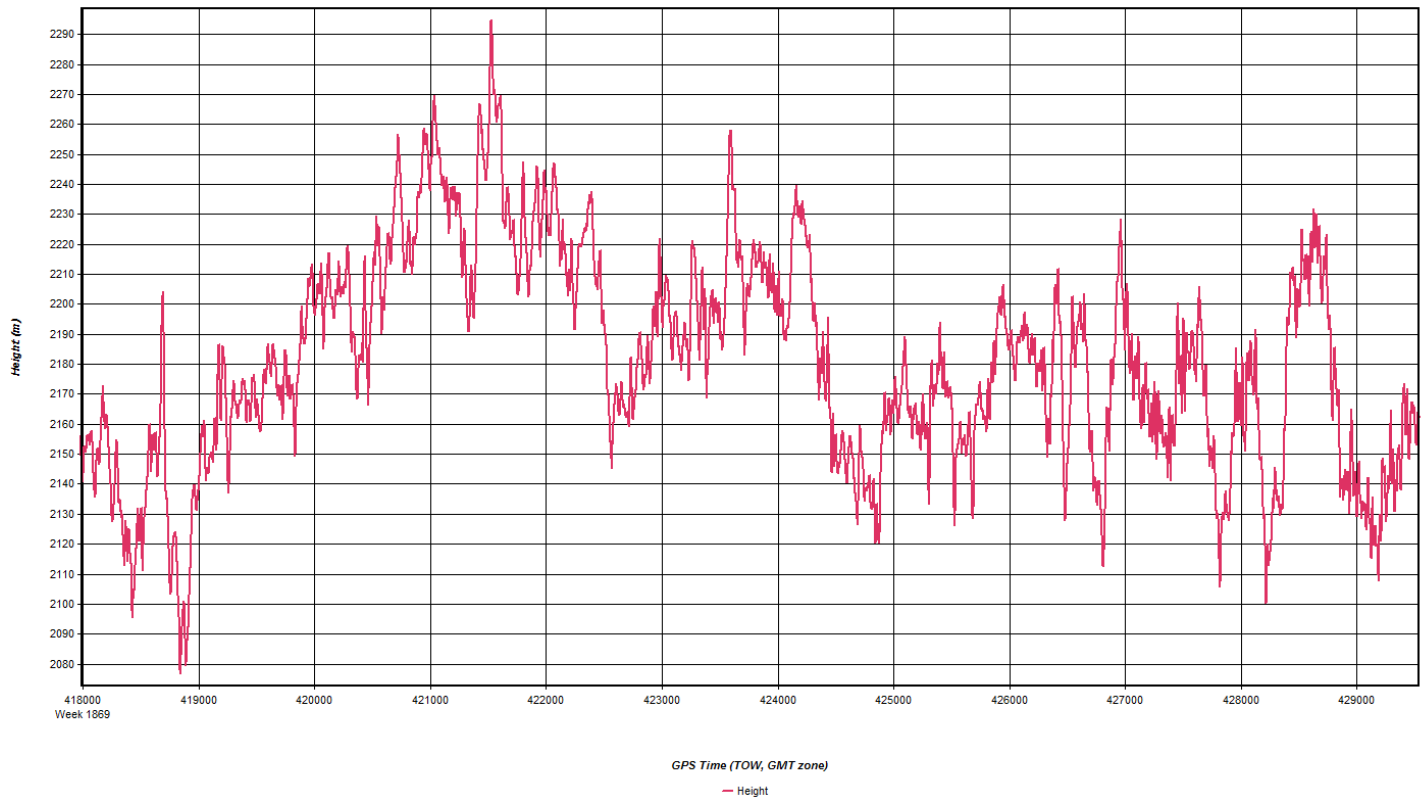
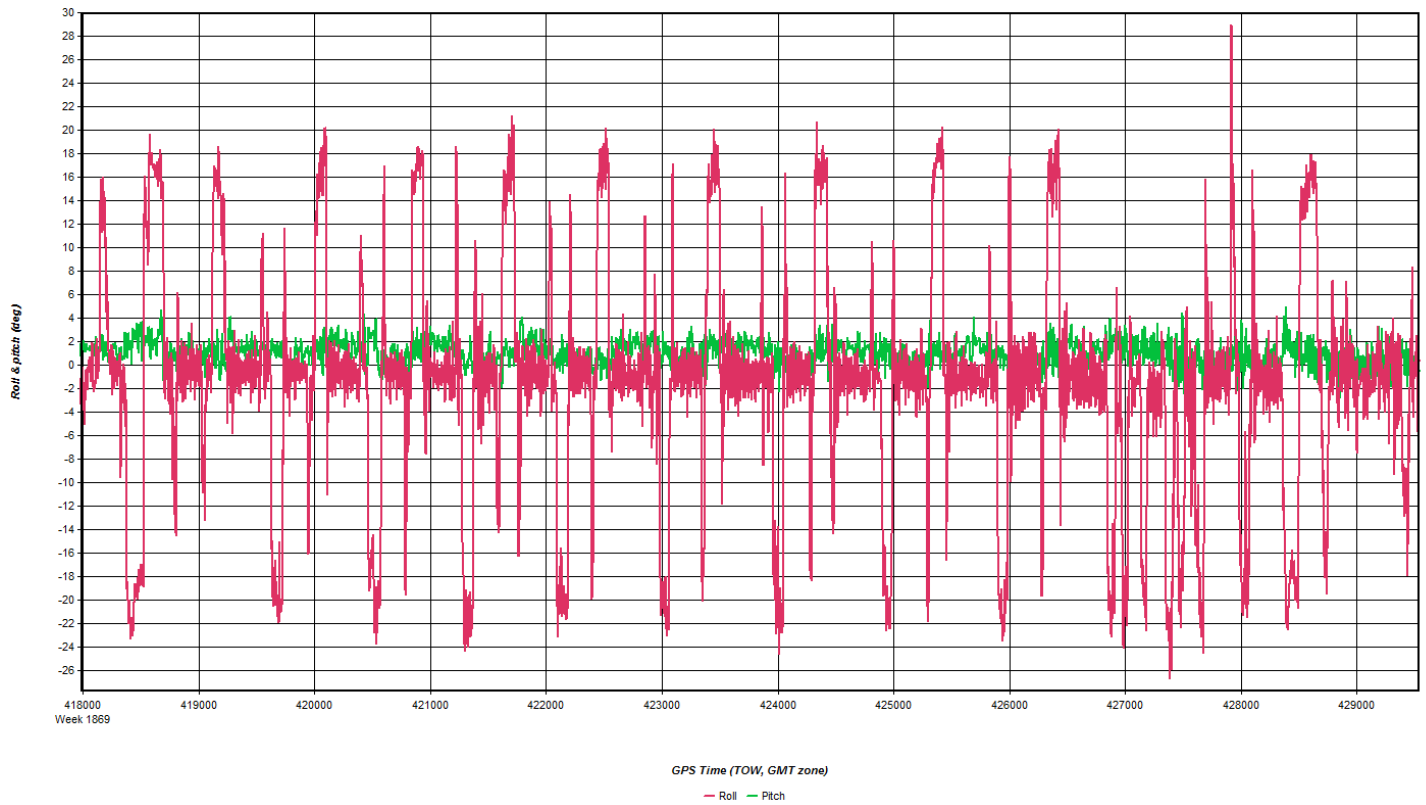
AERO-METRIC, INC. N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 FAX: 888-253-6695 E-Mail: amphoto@aerometric.com

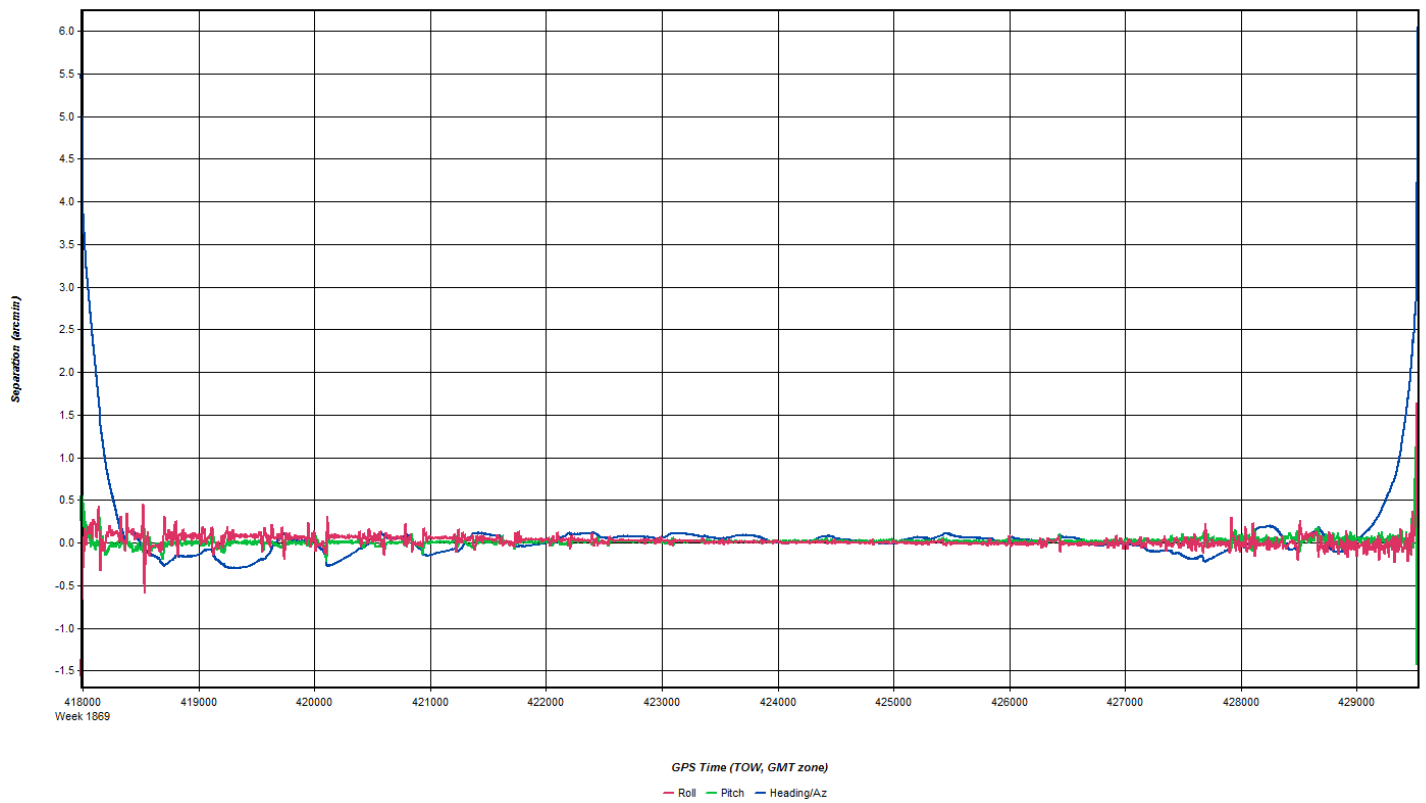
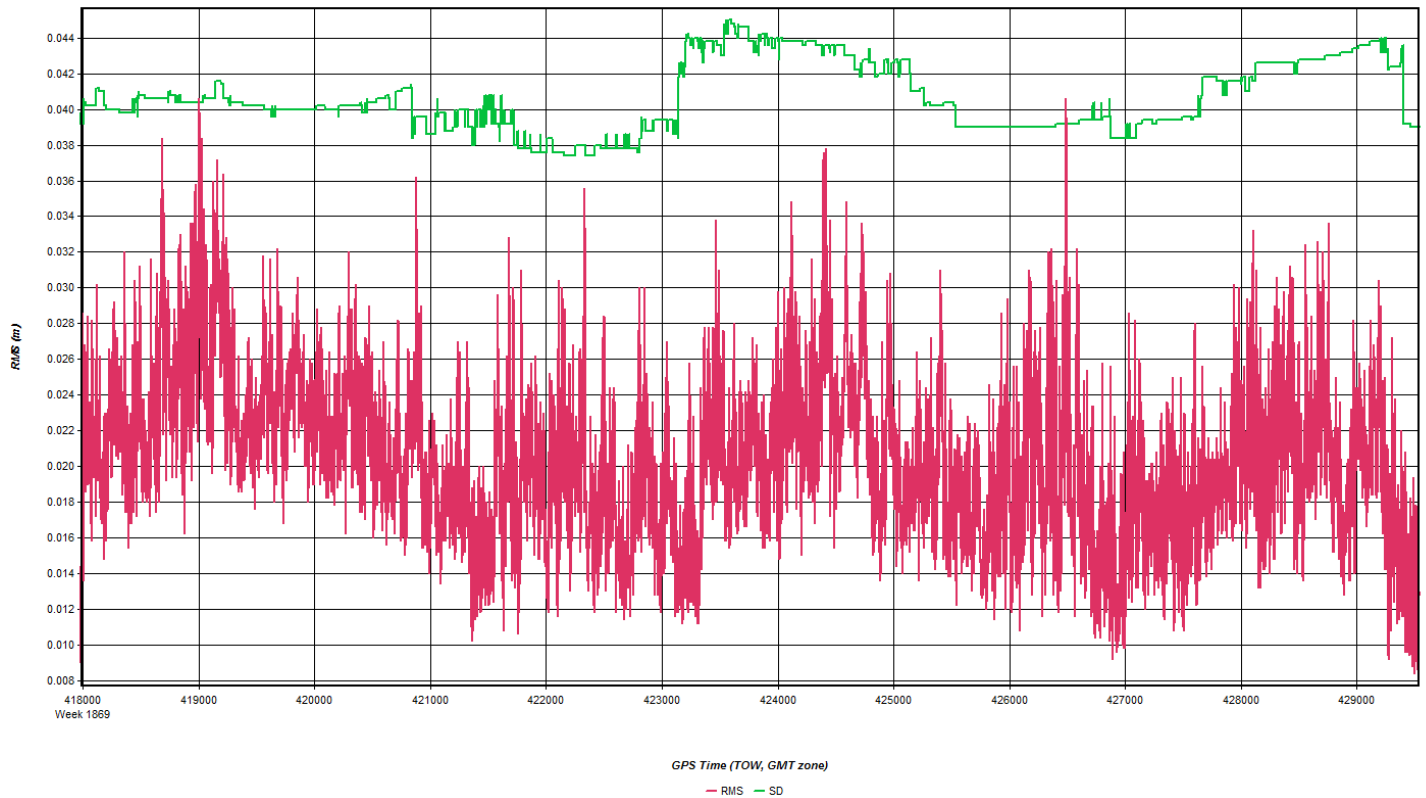
Nov 05, 2015-B (N22GE, SN7178)

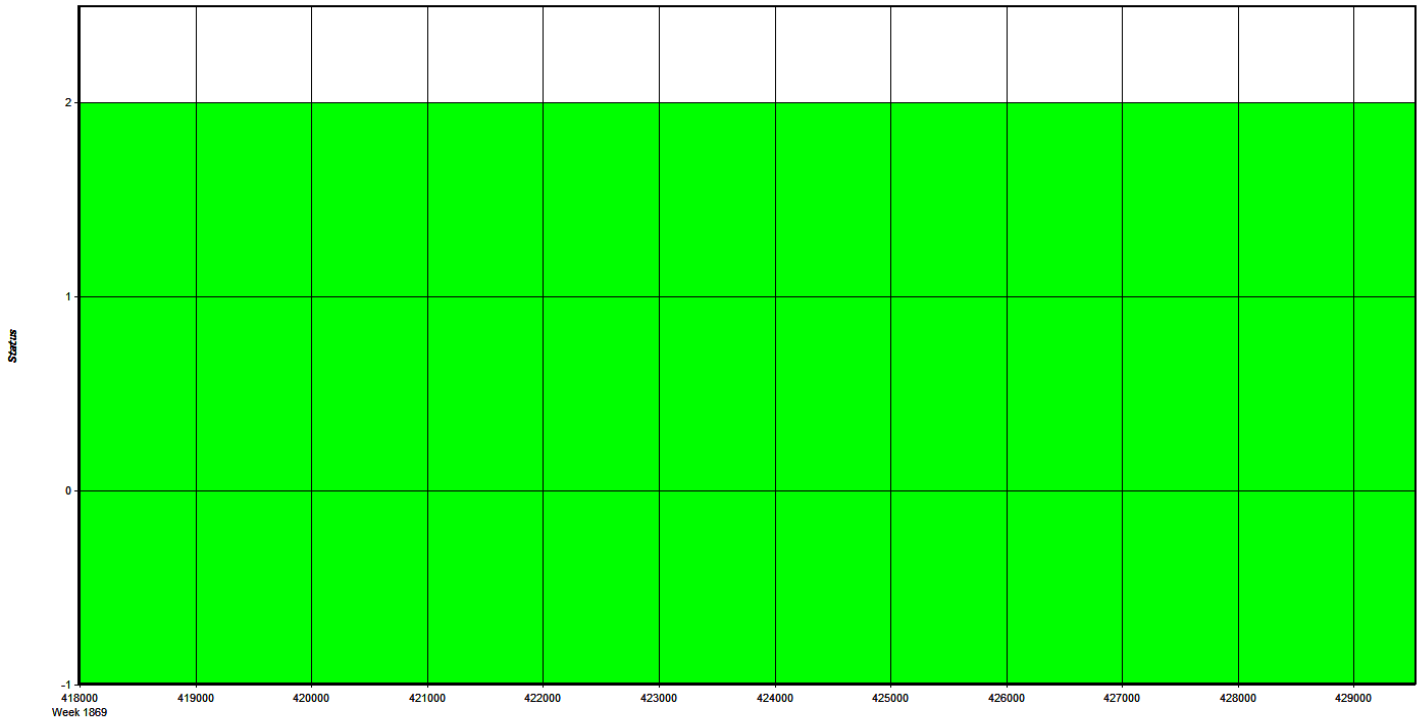












GPS Time (TOW, GMT zone)
 - Float - Forward Fixed - Reverse Fixed - Fixed (2 or more)

Coordinate/Antenna Settings

Master Remote

Base Station
 2: BARN Name: BARN Disabled
 File: F:\26818_USGS_CT_River\OB13\26818_WMNF_CT_River\2015

Coordinates
 Latitude: North 44 05 56.68362 Compute from PPP
 Longitude: West 71 09 34.39925 Enter Grid Values
 Ellipsoidal height: 140.793 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

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

Master Remote

Base Station
 1: VTD7 Name: VTD7 Disabled
 File: F:\26818_USGS_CT_River\OB13\26818_WMNF_CT_River\2015

Coordinates
 Latitude: North 44 23 52.31066 Compute from PPP
 Longitude: West 72 01 32.39267 Enter Grid Values
 Ellipsoidal height: 166.528 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

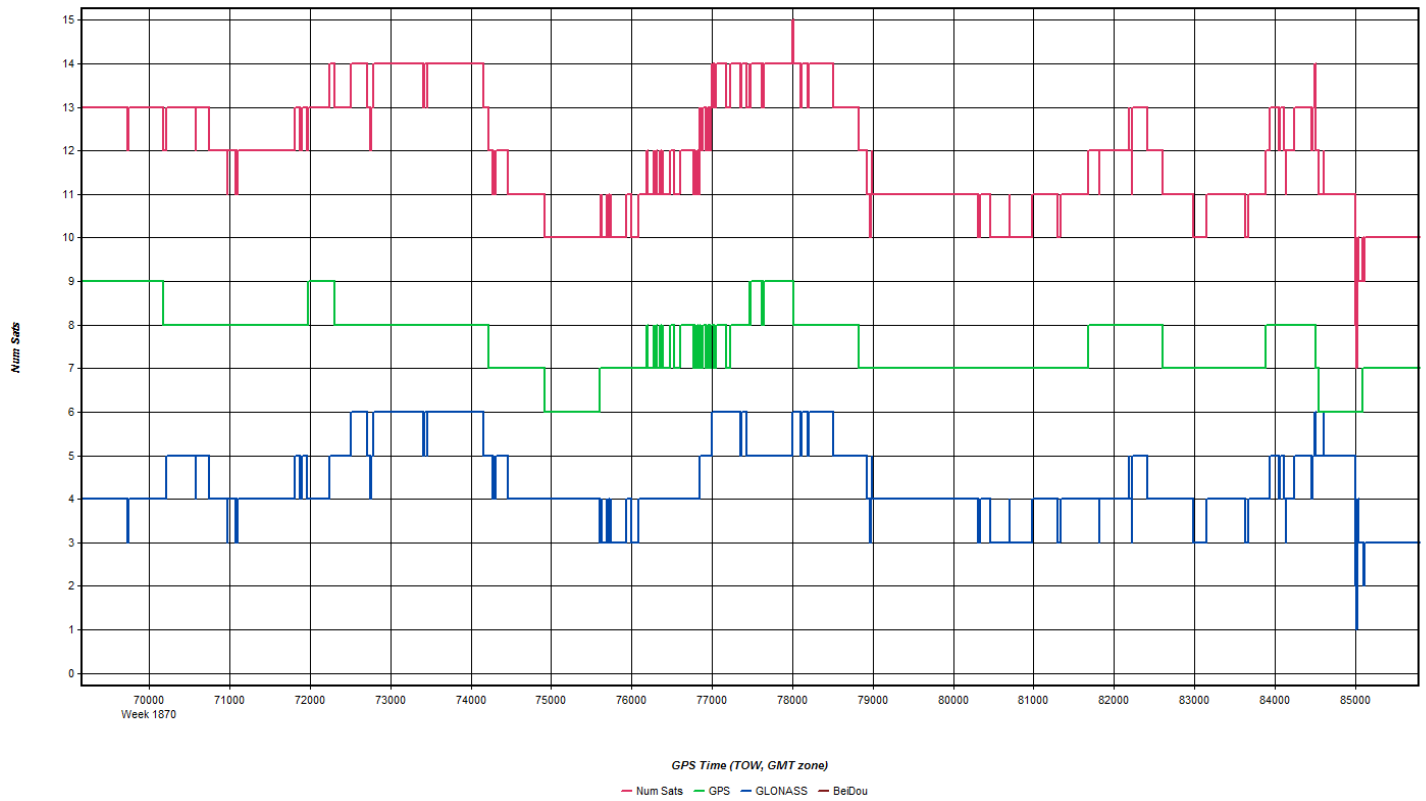
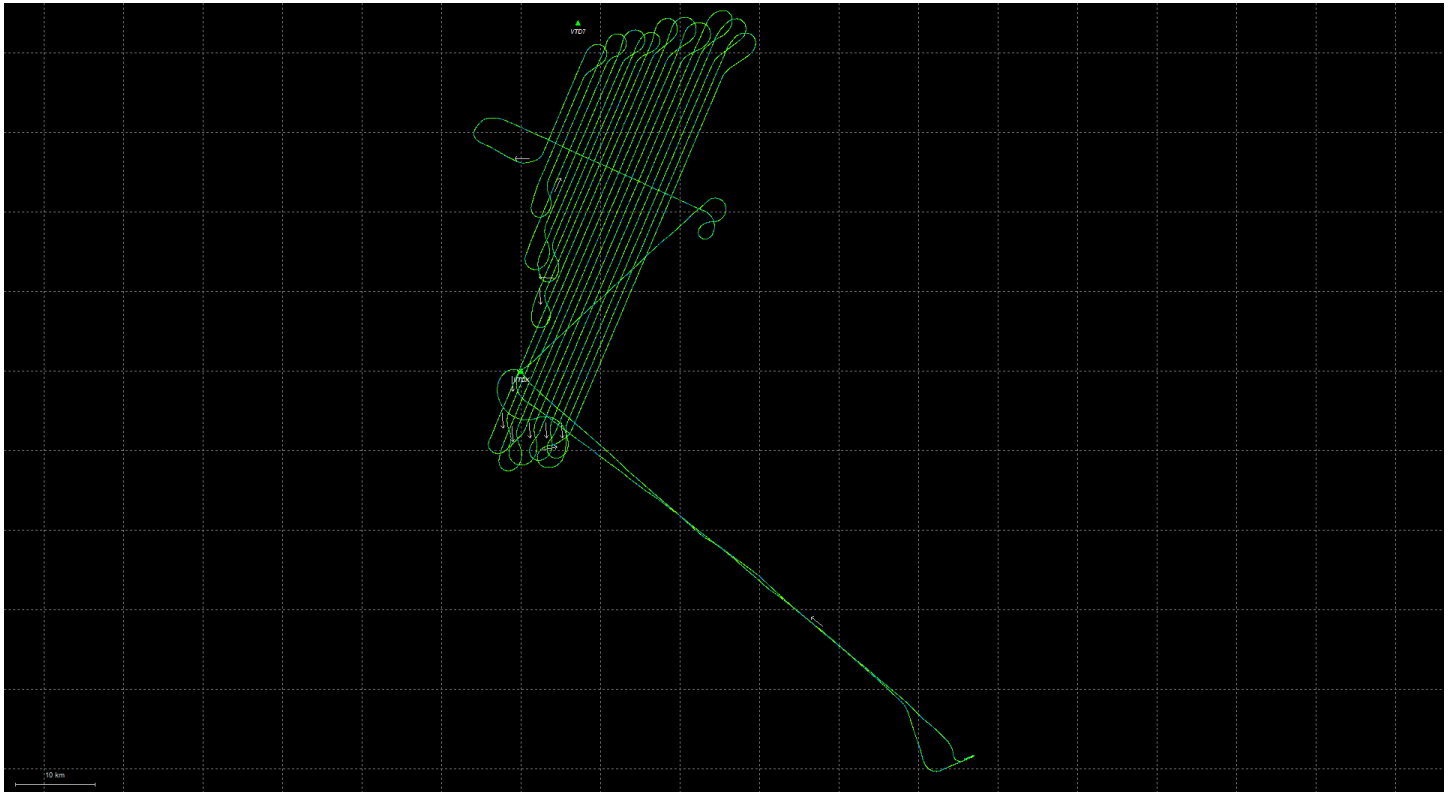
Antenna Height
 From station file: TRM55971.00, NONE View STA File
 Antenna profile: TRM55971.00 Info
 Measured height: 0.000 m
 ARP to L1 offset: 0.067 m
 Applied height: 0.067 m
 Measured to:
 ARP
 L1 Phase Centre
 Compute From Slant

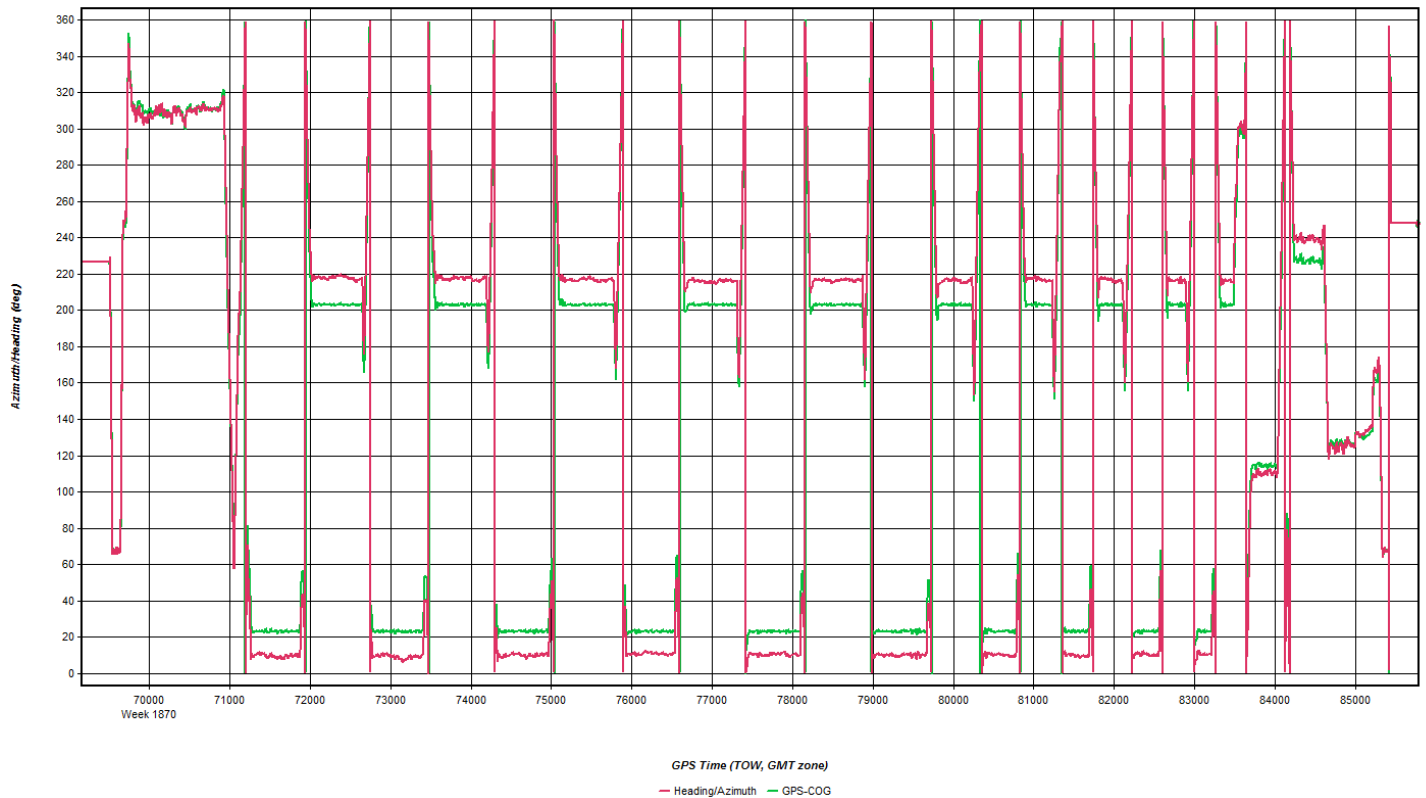
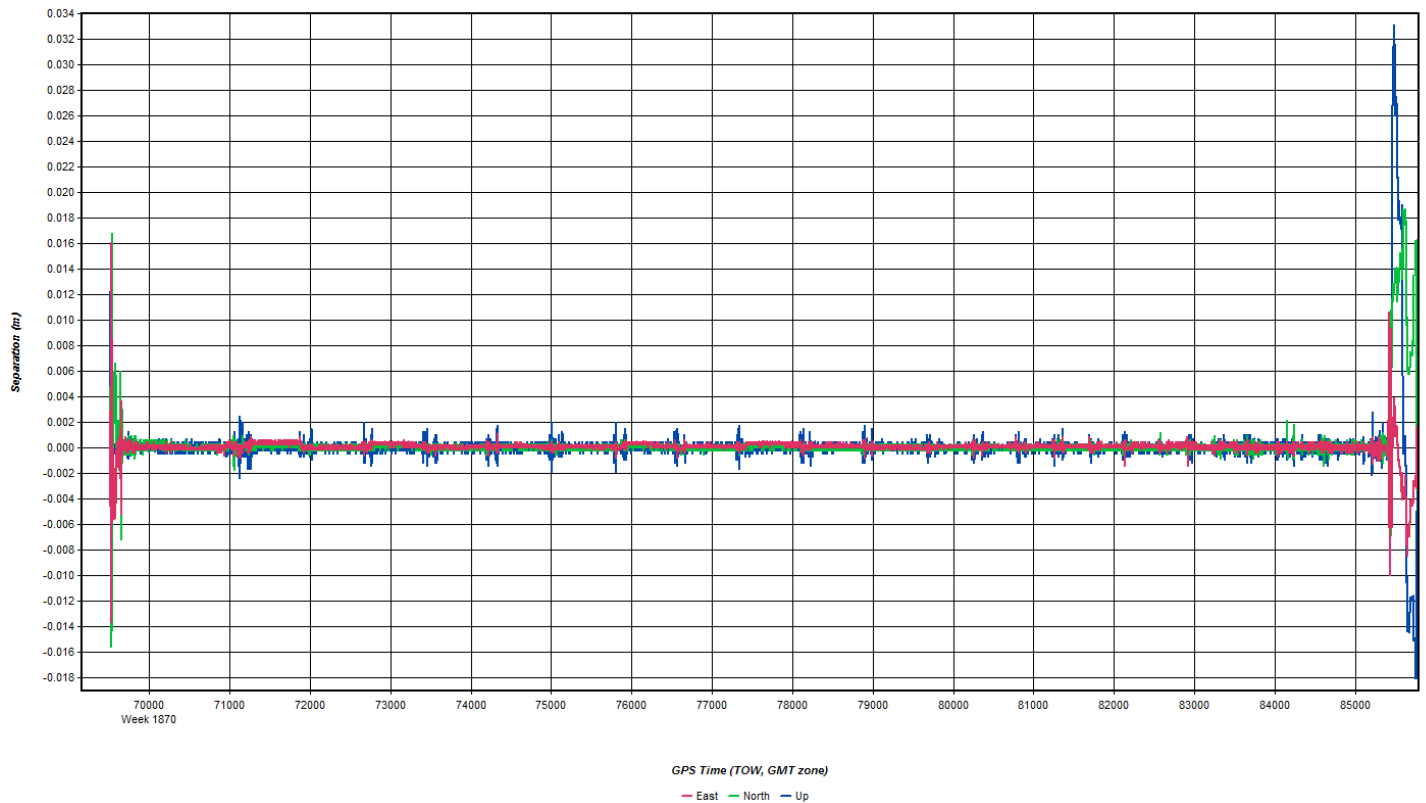
OK Cancel

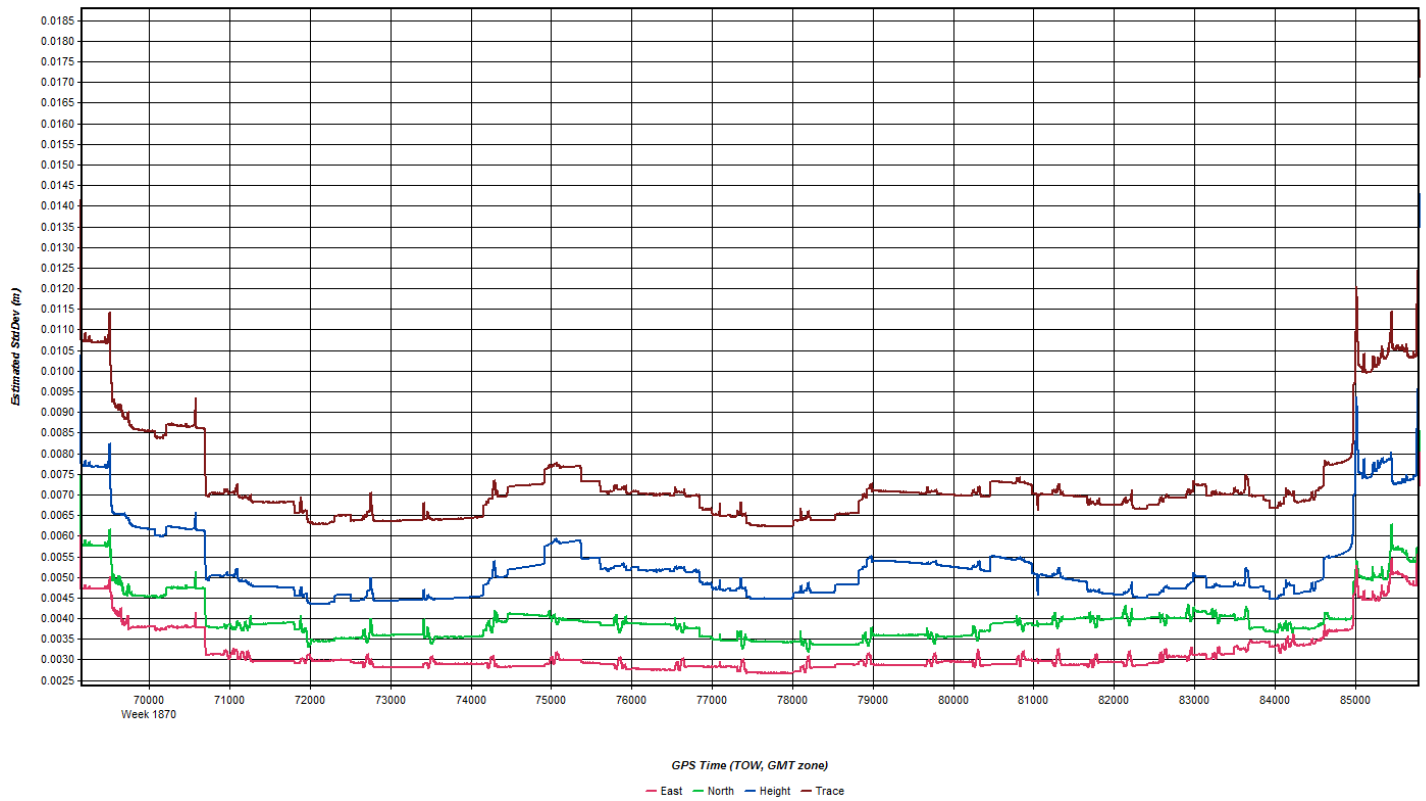
Flight Log

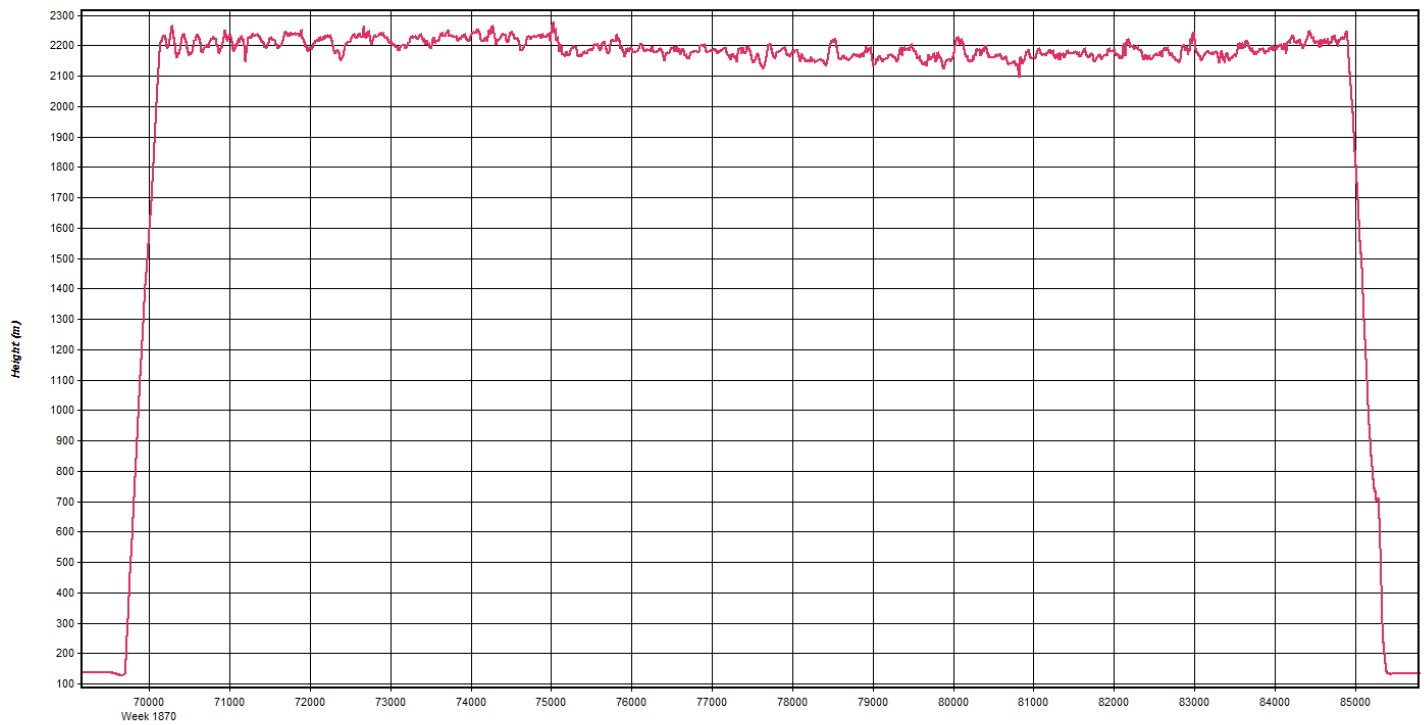
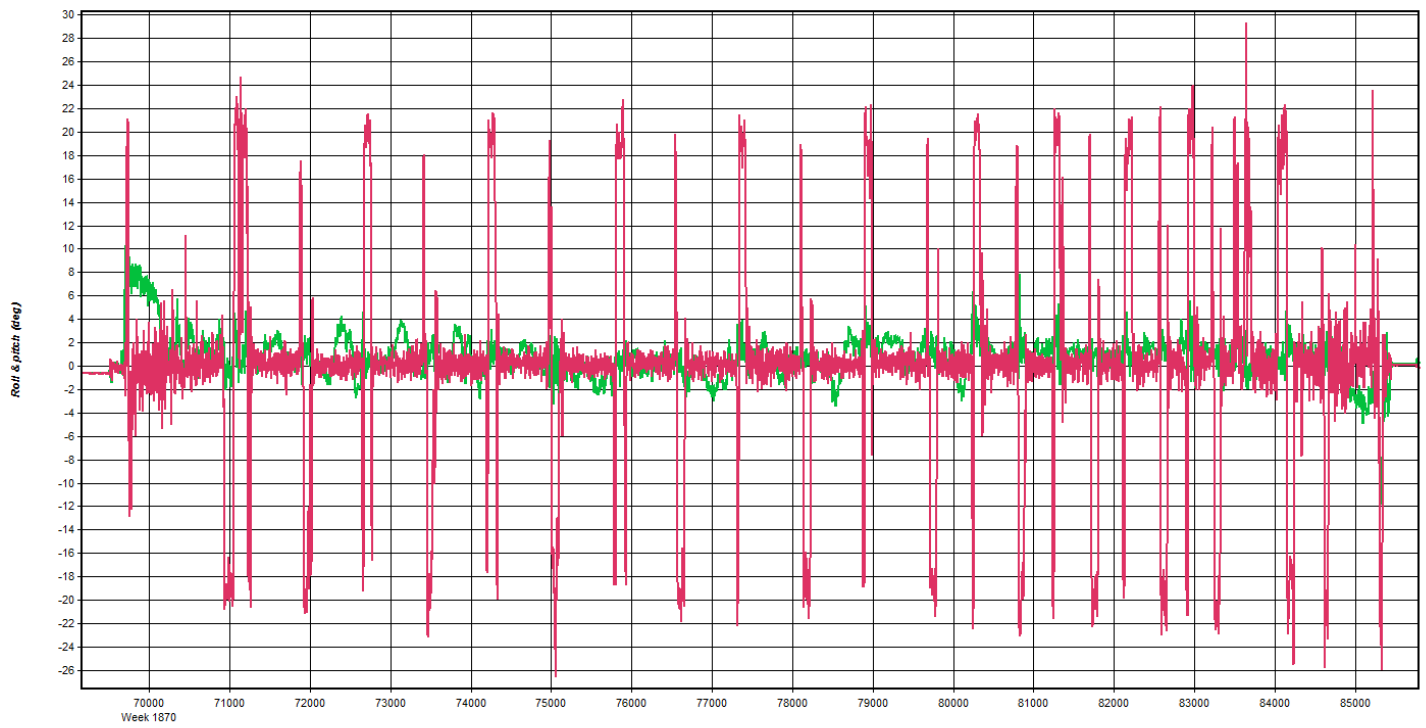
YYYYMMDD_TIME(GPS)				OPERATORS FLIGHT LOG											
MISSION: 20151105-193023				DATE: 11-5-15B				LEICA ALS-70		JSI					
PILOT: TED RADTKE				OPERATOR: JIM SCHOONE				AIRCRAFT: N22GE		SENSOR: 7178					
PROJECT NUMBER AND NAME	LINE			GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (m)	GAT TIME GAT		MM70 DRIVE	REMARKS		
	No.	Lbl	Hdg							START	STOP				
										19:32	20:21		FERRY: LEB → SITE .8		
26818	687	8081	82	160	51	34	305	255		20:21	20:23	2			
CT RIVER	688	8082	262							20:29	20:31				
WMNF	689	8083	82							20:36	20:38				
	690	8084	262							20:43	20:46				
	5 691	8085	82							20:50	20:52				
	692	8086	262							20:57	20:59				
	693	8087	82							21:03	21:05				
	694	8088	262							21:10	21:13				
	695	8089	82							21:16	21:19				
	10 696	8090	262							21:23	21:27				
	697	8091	82							21:31	21:35				
	698	8092	262							21:40	21:43				
	699	8093	82							21:48	21:50				
	700	8094	262							21:55	21:59				
	15 701	8095	82							22:03	22:07				
	702	8096	262							22:11	22:16				
	703	8097	82							22:20	22:24				
	704	8098	262	✓	✓	✓	✓	✓		22:28	22:33	✓			
STATUS	TOTAL LINES	FLOWN	LEFT	AIRCRAFT		STATIC	START	STOP	NOTES:						
⊙	26818	135	39/20	76	2.7	1.5	4.2	19:32	23:14	Cons VTB7 20:07/23:15					
○			59				Wx 8k Bkn			00083090.P0L					
○															

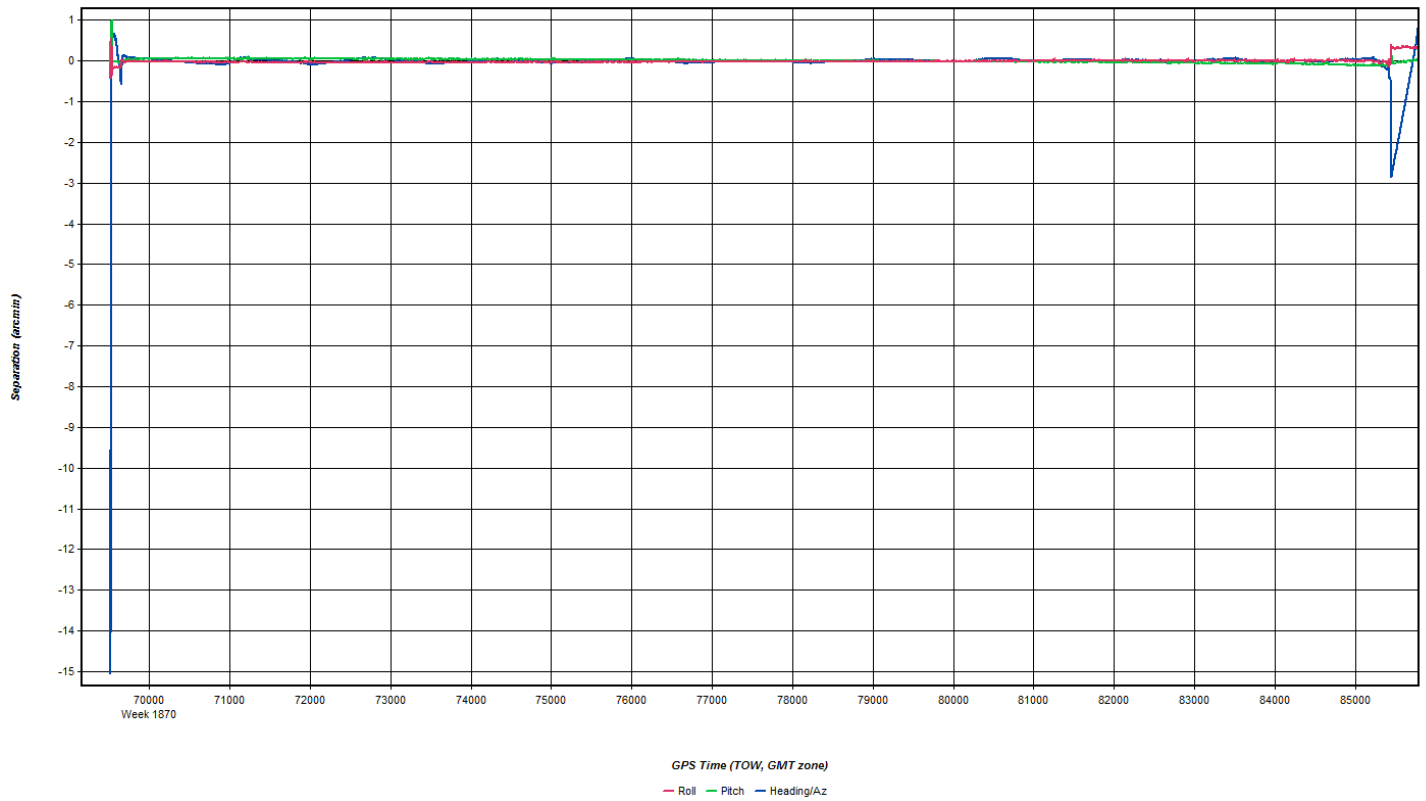
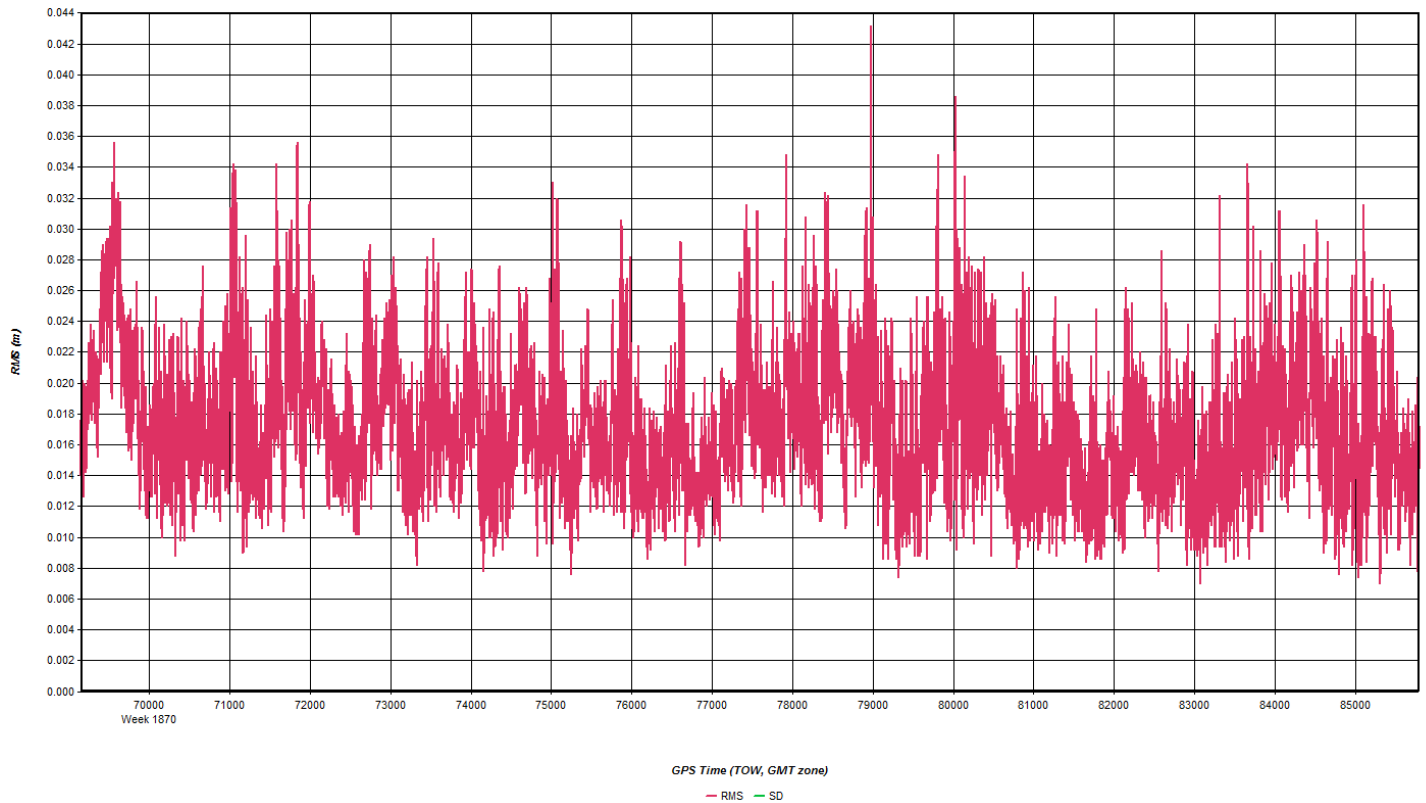
Nov 08, 2015-A (N6GR, SN7161)

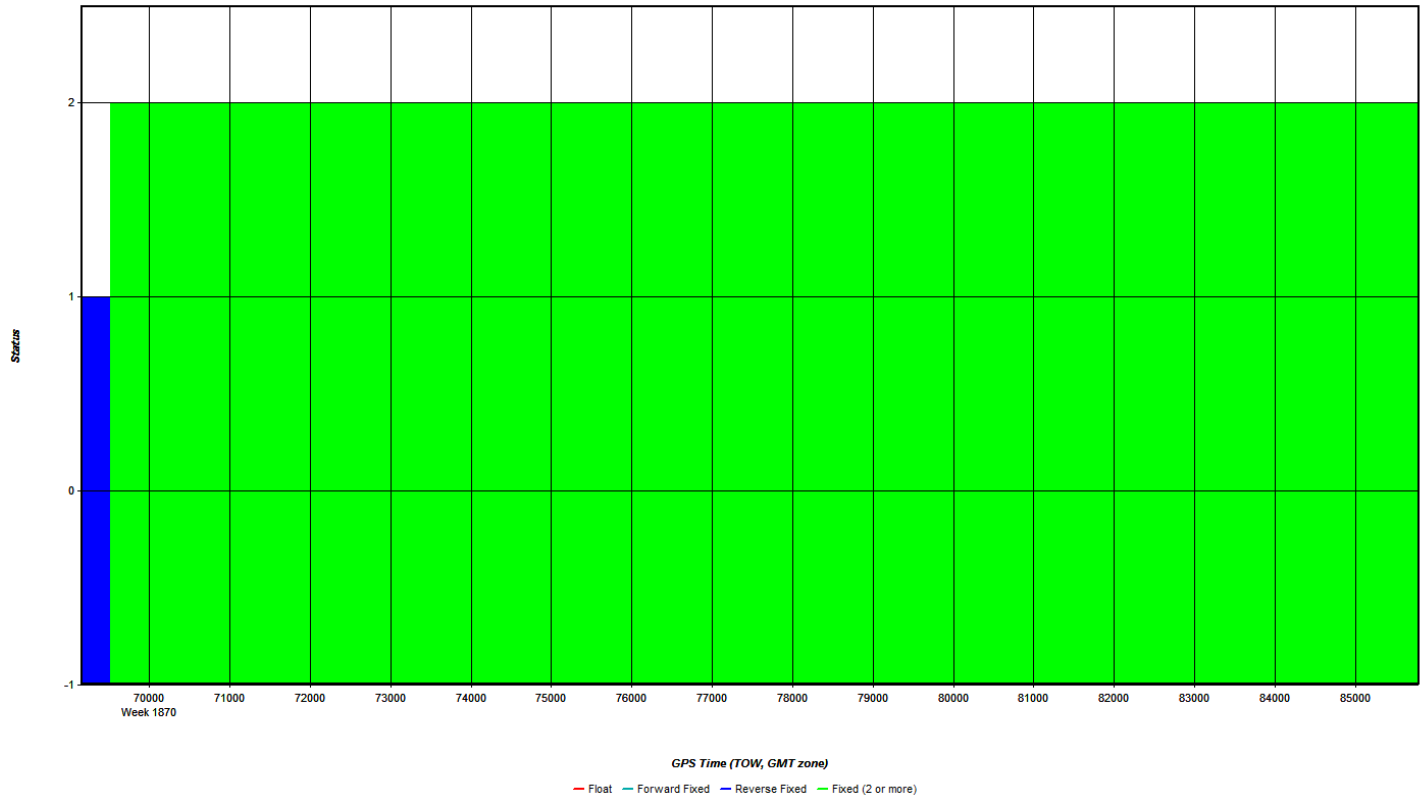












Coordinate/Antenna Settings

Master Remote

Base Station
 2: VTD7 Name: VTD7 Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\29CL\26818_USG;

Coordinates
 Latitude: North 44 23 52.31066 Compute from PPP
 Longitude: West 72 01 32.39267 Enter Grid Values
 Ellipsoidal height: 166.528 m Enter MSL Height
 Datum: NAD83(2011) 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: VTOX Name: VTOX Disabled
File: S:\LIDAR\26818_CT_River\26818_CT_River\29CL\26818_USG:

Coordinates
Latitude: North 44 00 28.16564 Compute from PPP
Longitude: West 72 06 51.60957 Enter Grid Values
Ellipsoidal height: 126.405 m Enter MSL Height
Datum: NAD83(2011) 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

Base Station Log

GPS OBSERVATION LOG

Station ID	<u>LCI</u>	Date	<u>11 / 8 / 15</u>
Project Number	<u>26818</u>	Julian Date	<u>313</u>
Project Name	<u>St. Johnsbury Block</u>	Start Time	<u>:18:54: 2014</u>
Revr. Type	<u>Novatel LEICA 1200</u>	Stop Time	<u>:24:00: 2014</u>
Revr. S/N	_____	Revr. File Name	_____
Antenna Type	<u>Novatel LEICA L1/L2</u>	Observer	<u>D. CAREY</u>
Antenna S/N	<u>AX120266</u>		

New or Existing Mon. New Existing

Photo Taken: Yes No

Monument Type: _____

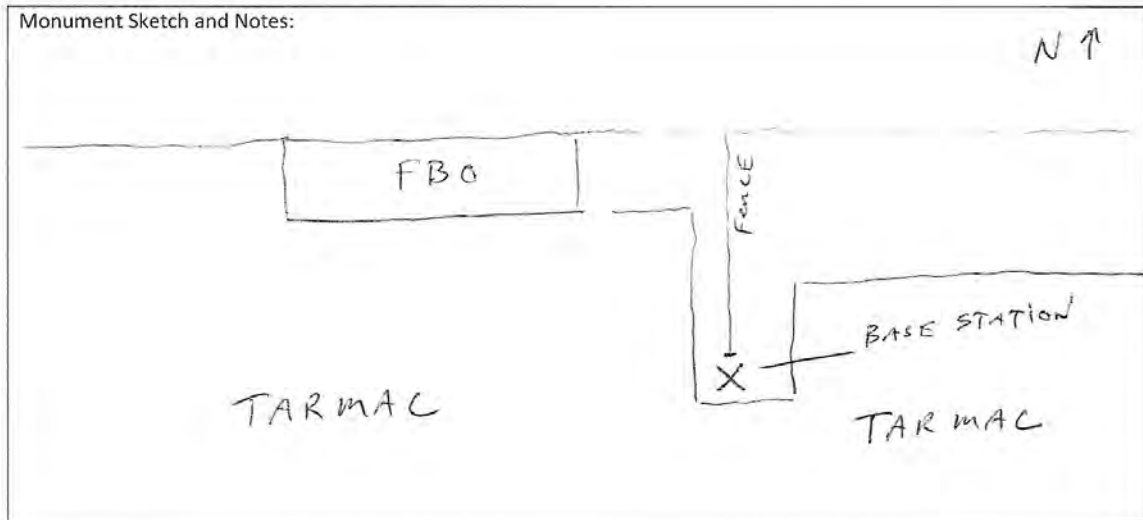
Spike PK Nail AM Washer

Other _____

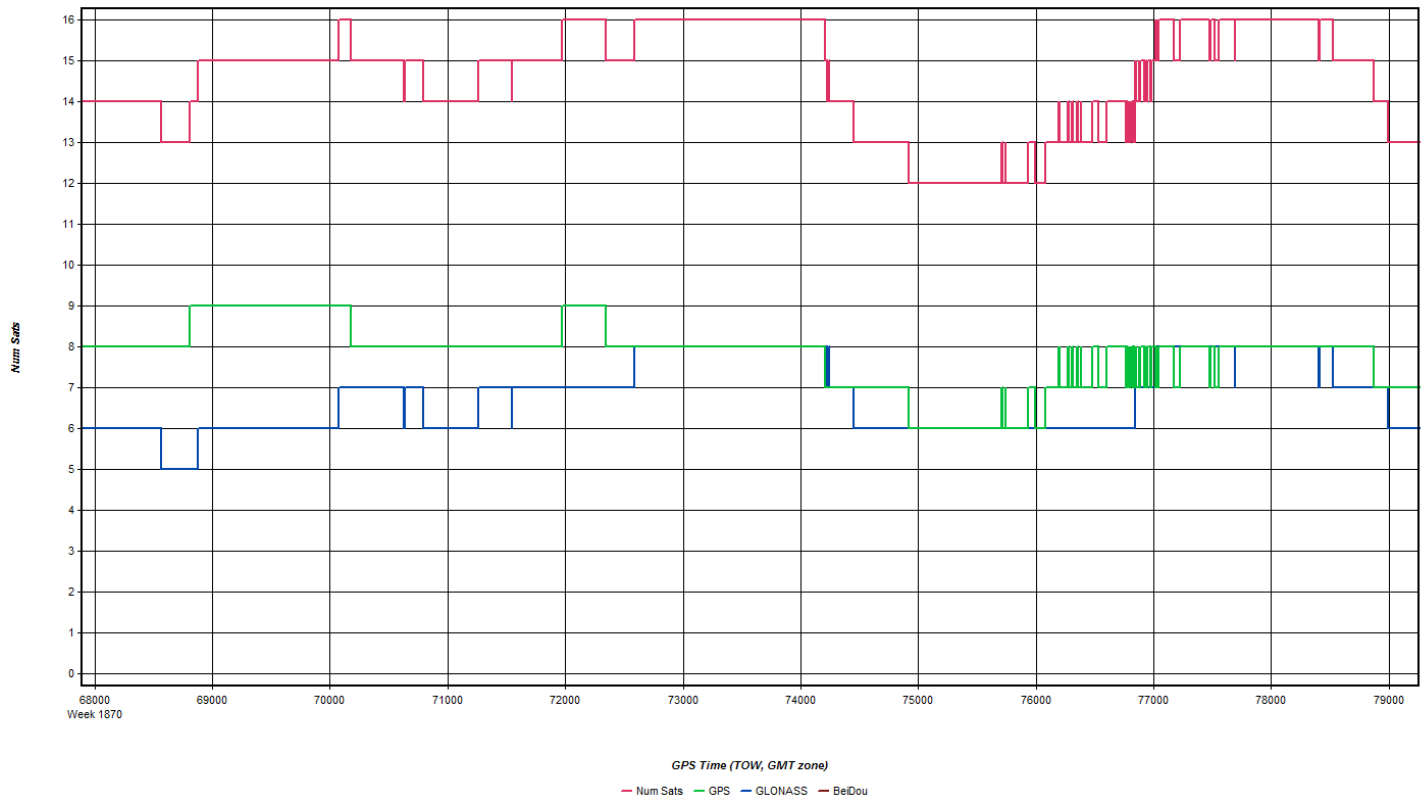
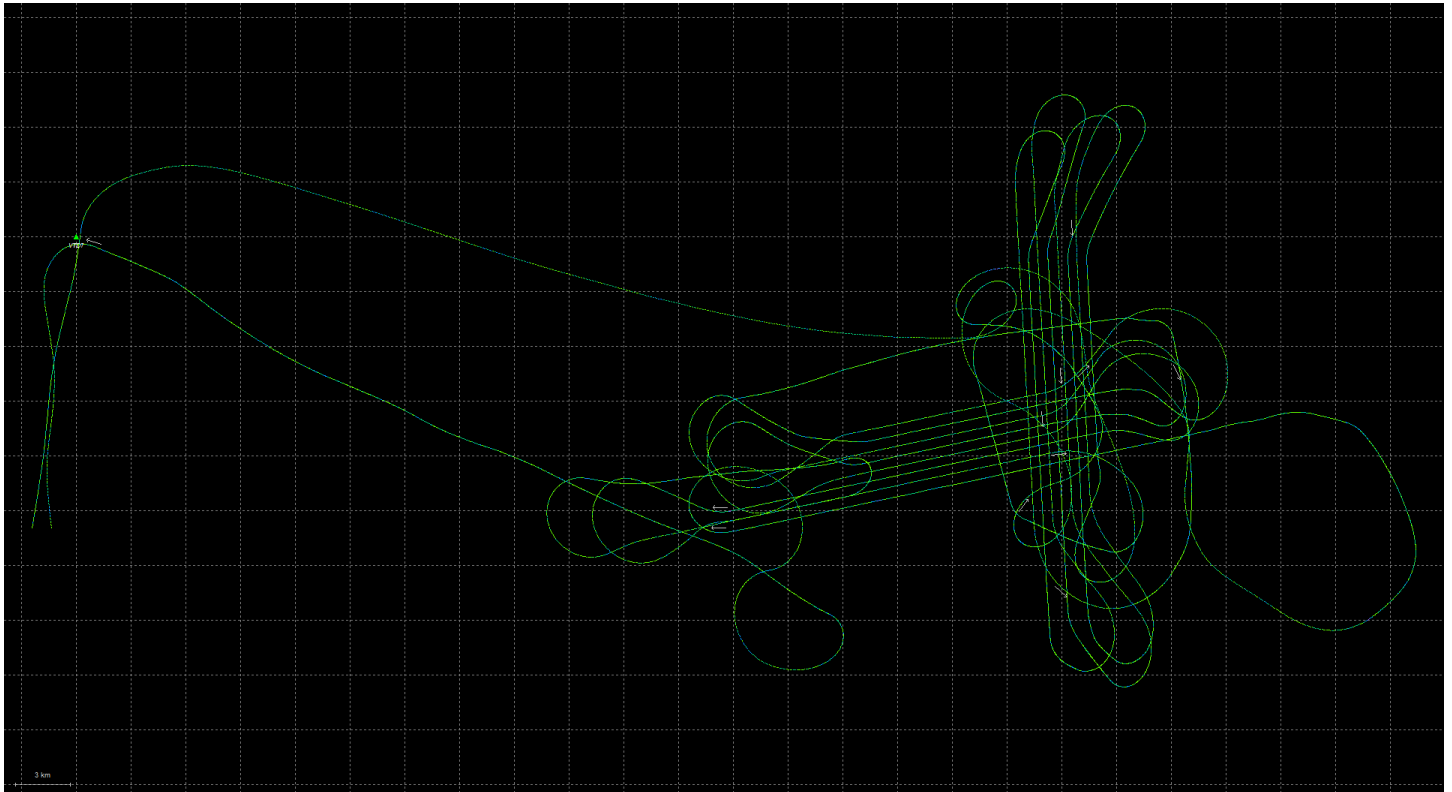
Height Readings: TRI-BRAC
(Top of Monument to Bottom of Ground Plane)

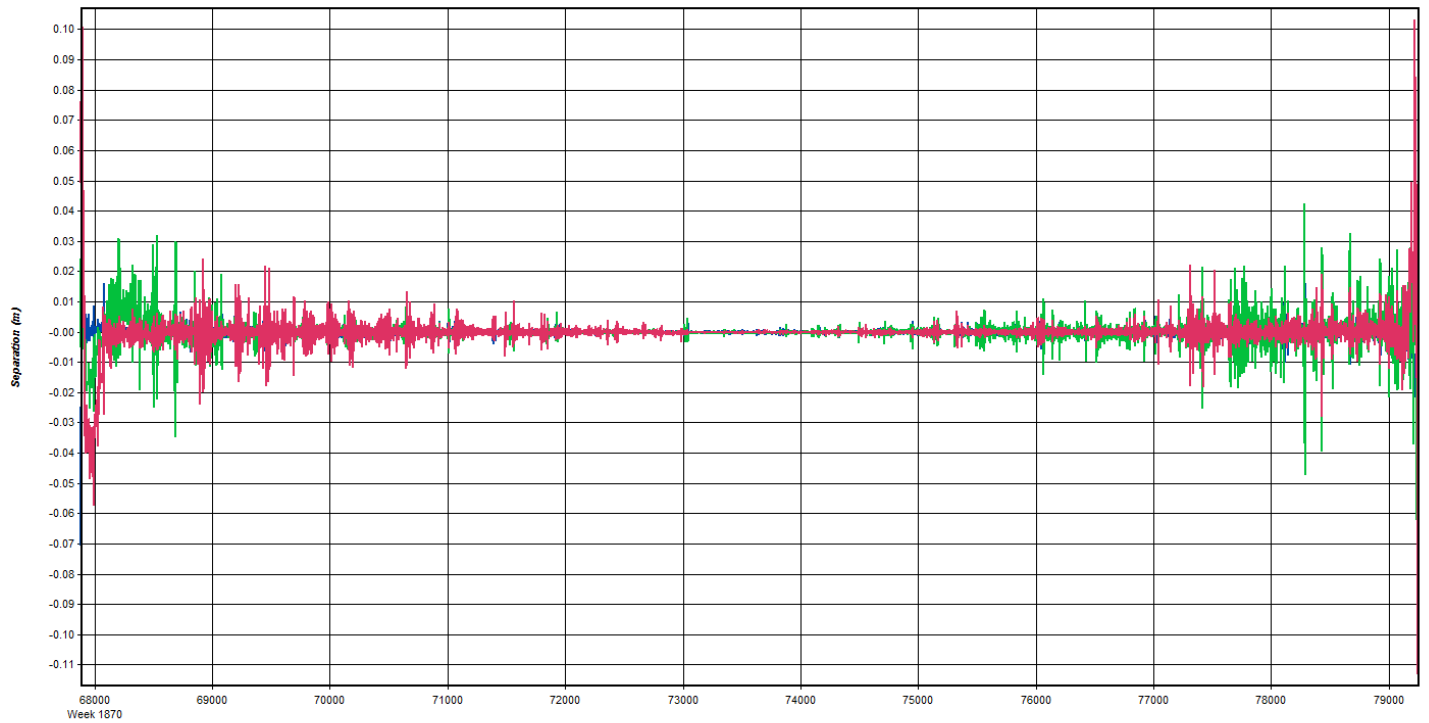
Start	<u>.675</u> M.	<u>2.21</u> Ft.
Stop	<u>.675</u> M.	<u>2.21</u> Ft.
Mean	<u>.675</u> M.	<u>2.21</u> Ft.

Monument Sketch and Notes:

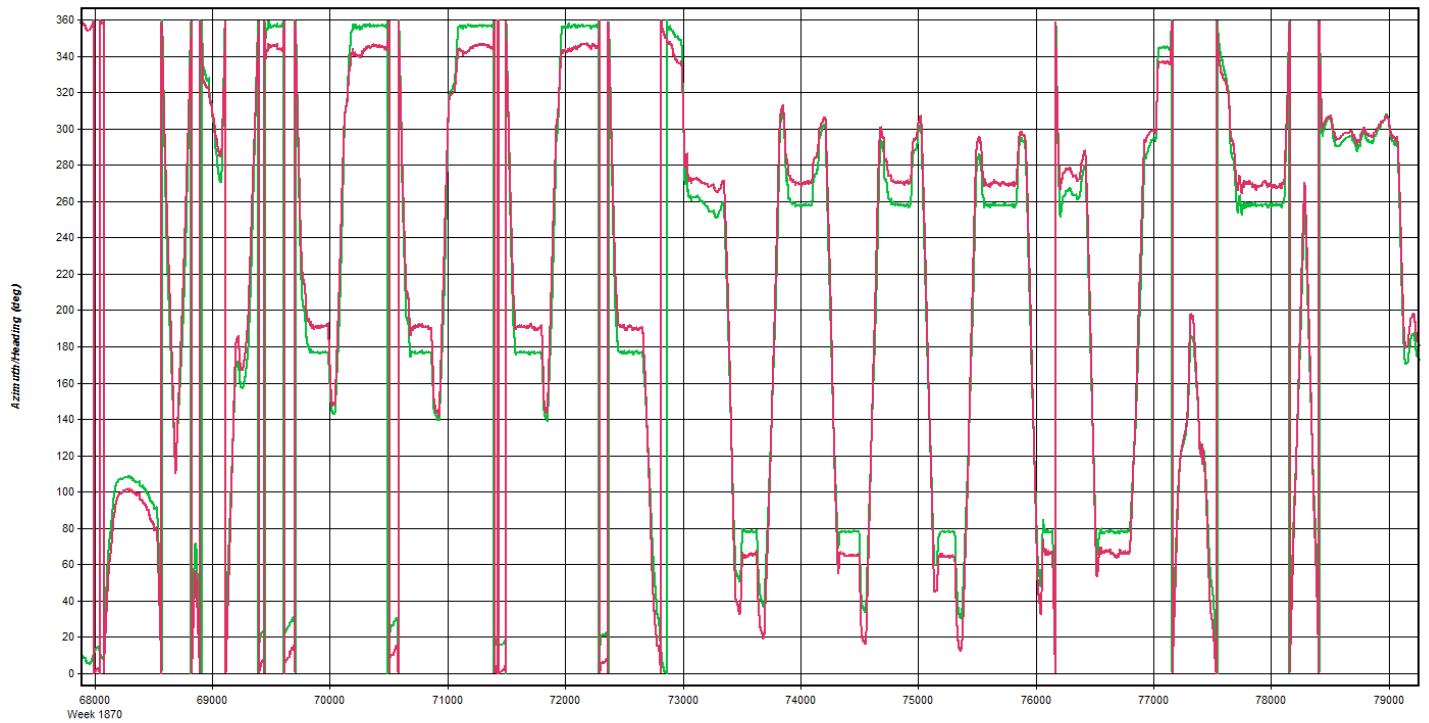


Nov 08, 2015-A (N22GE, SN7178)

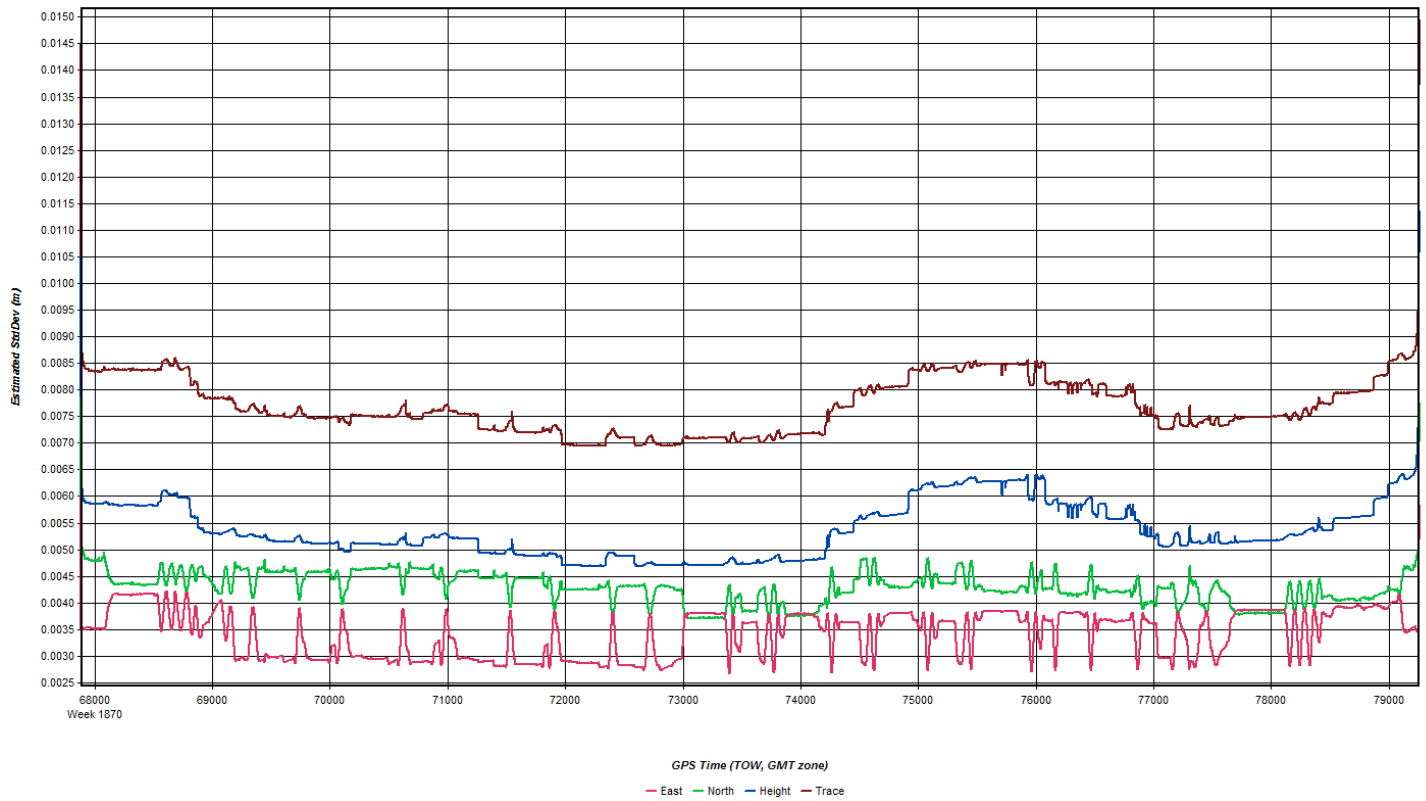
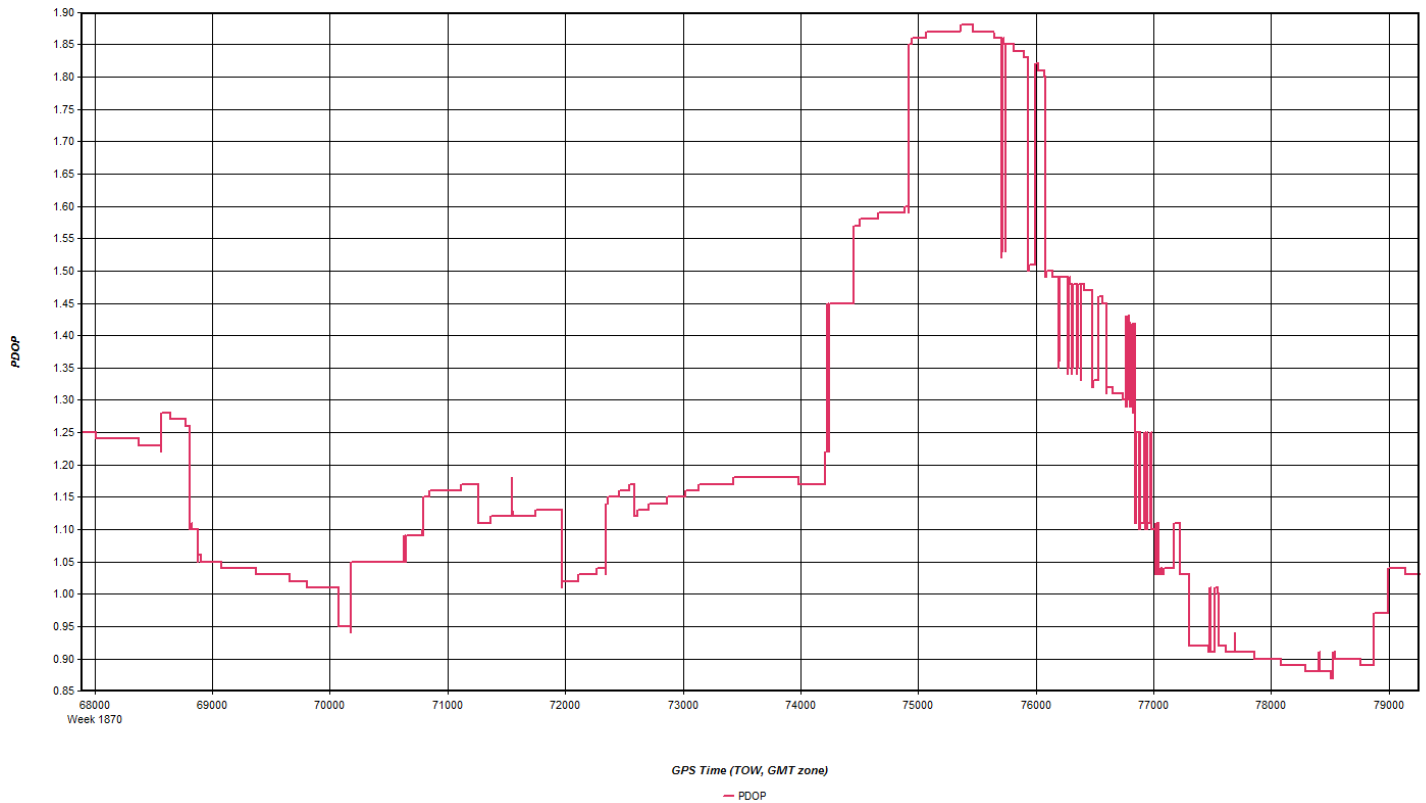


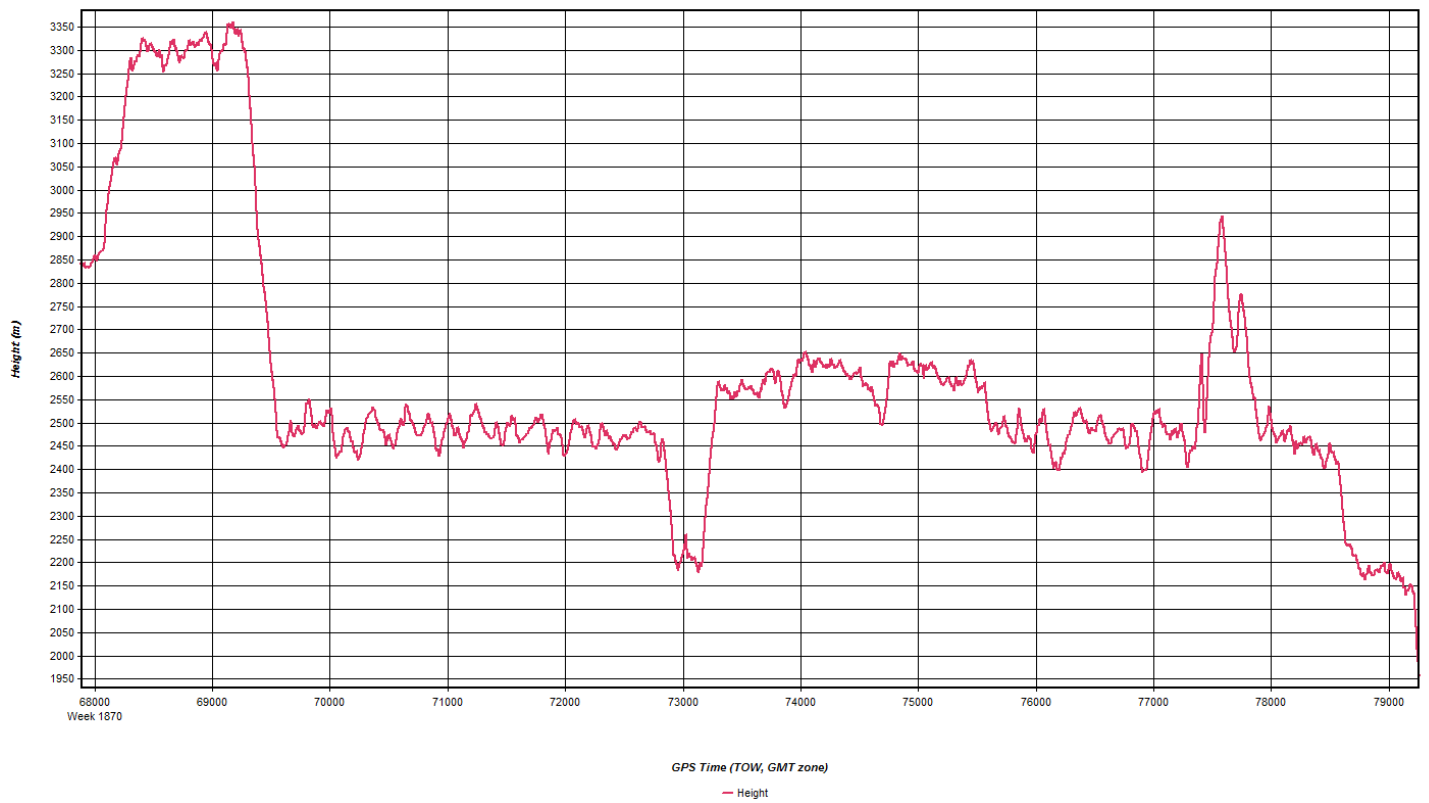
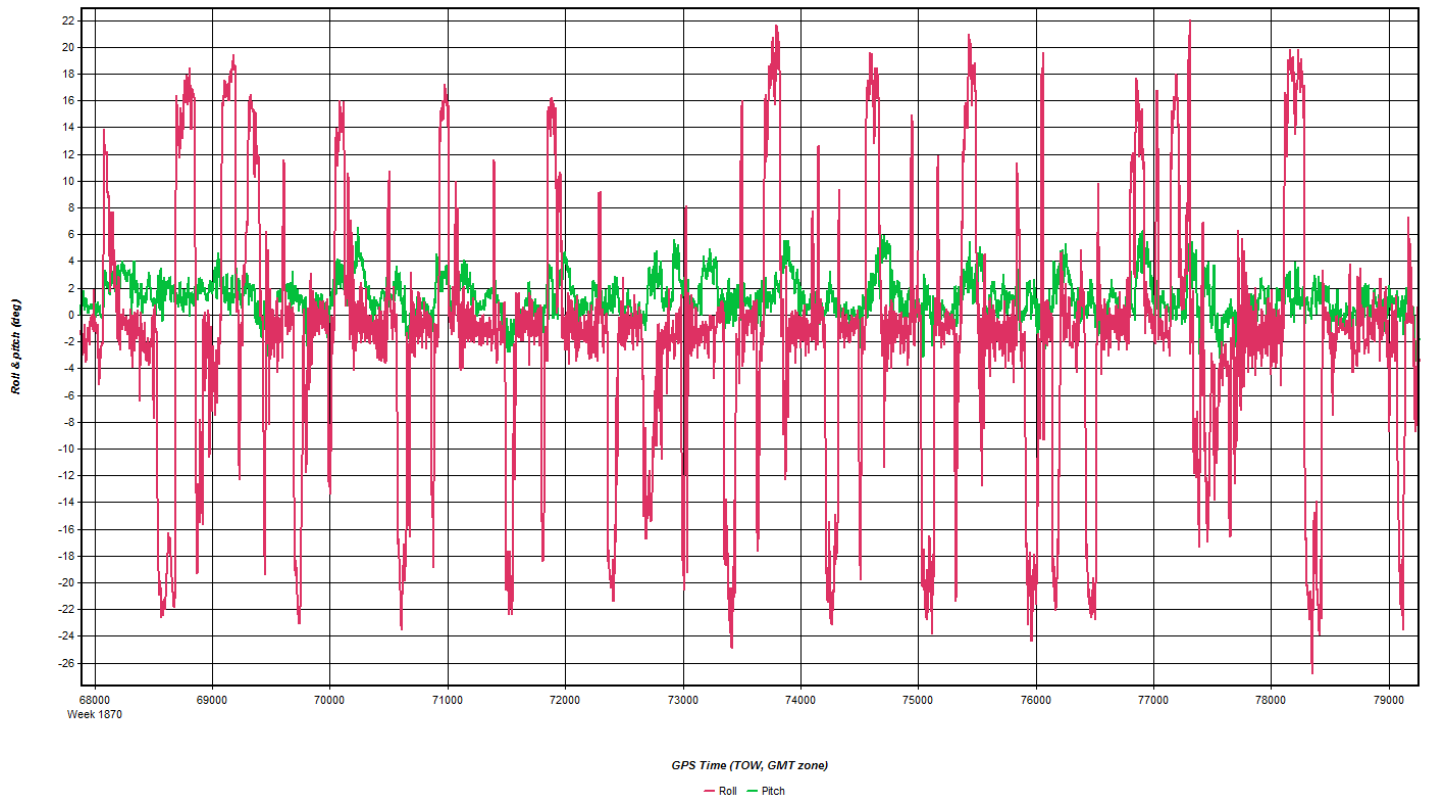


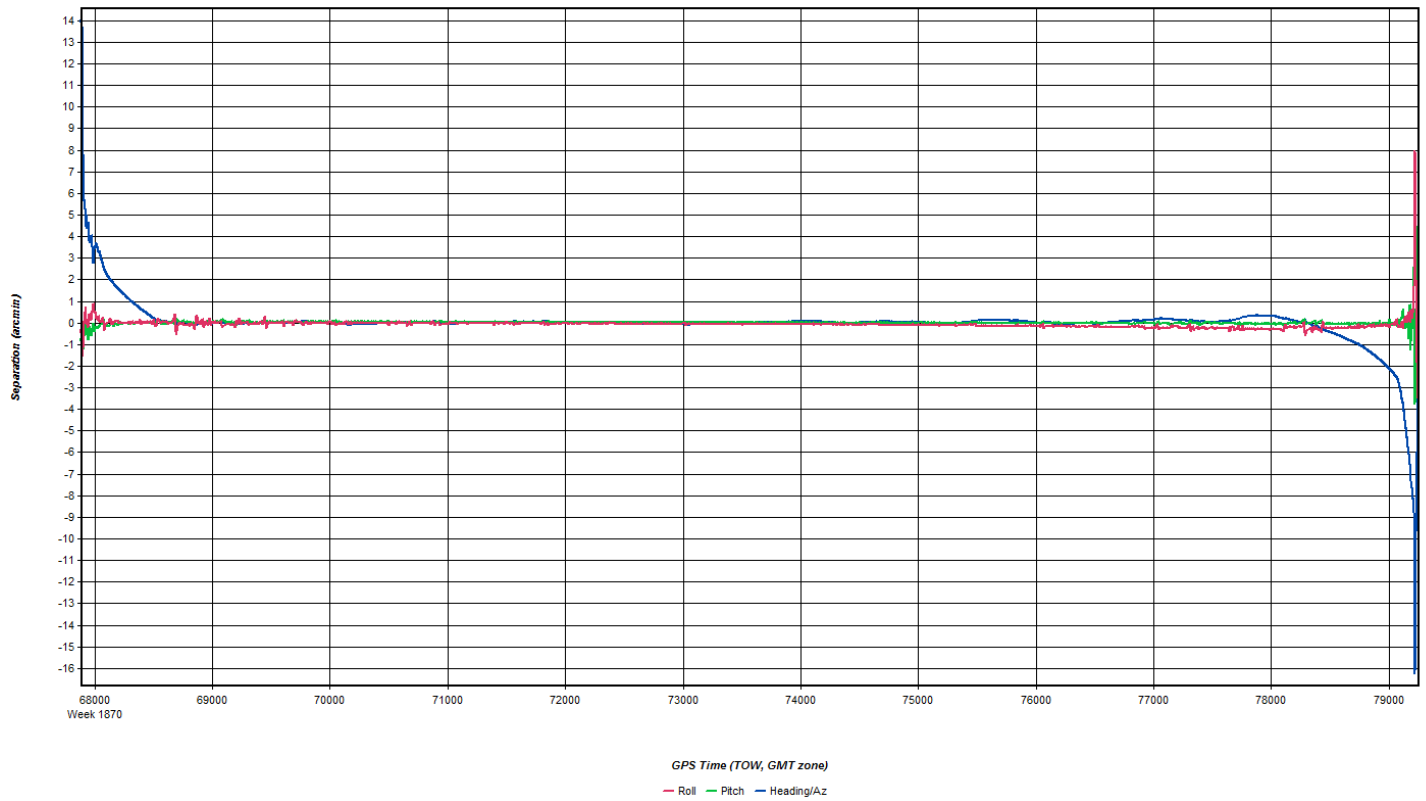
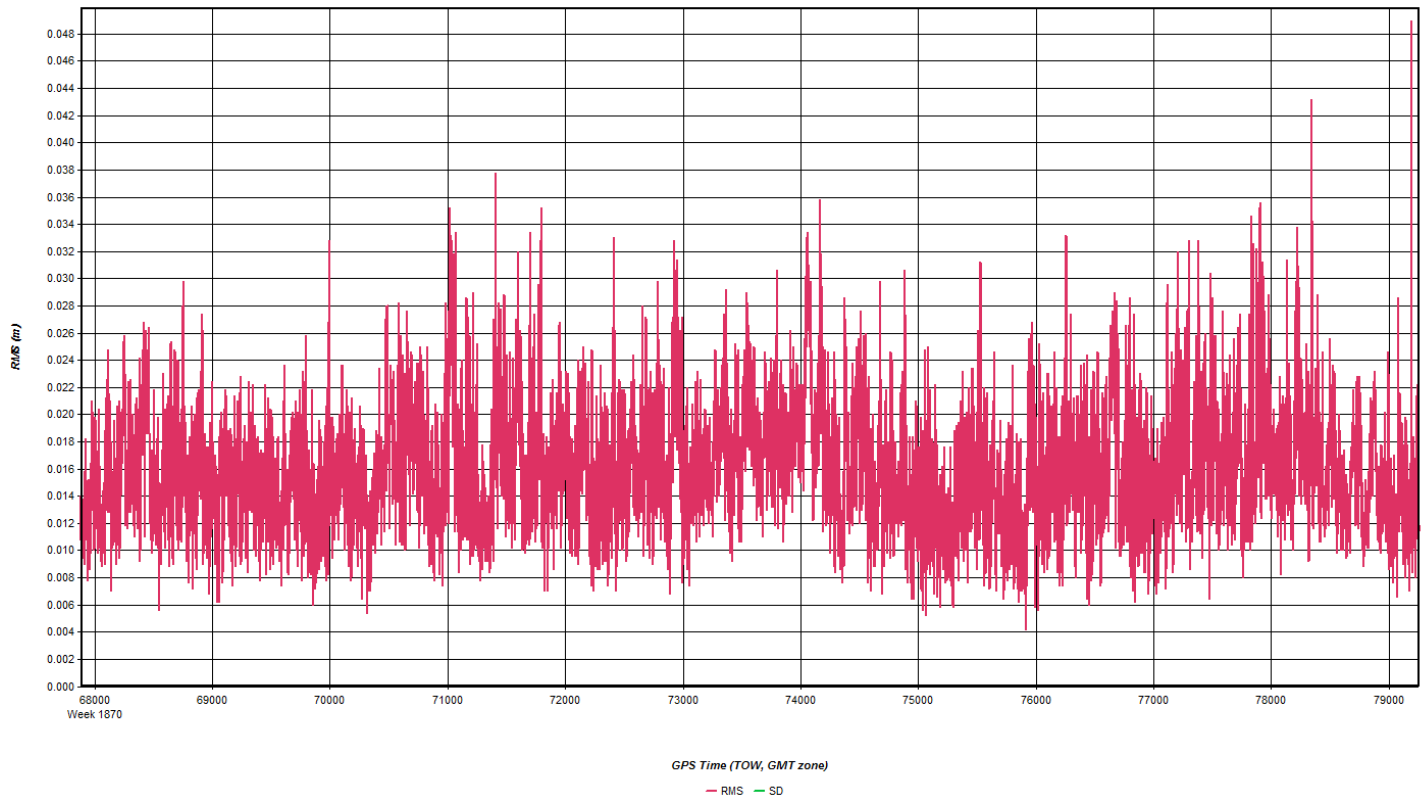
GPS Time (TOW, GMT zone)
— East — North — Up

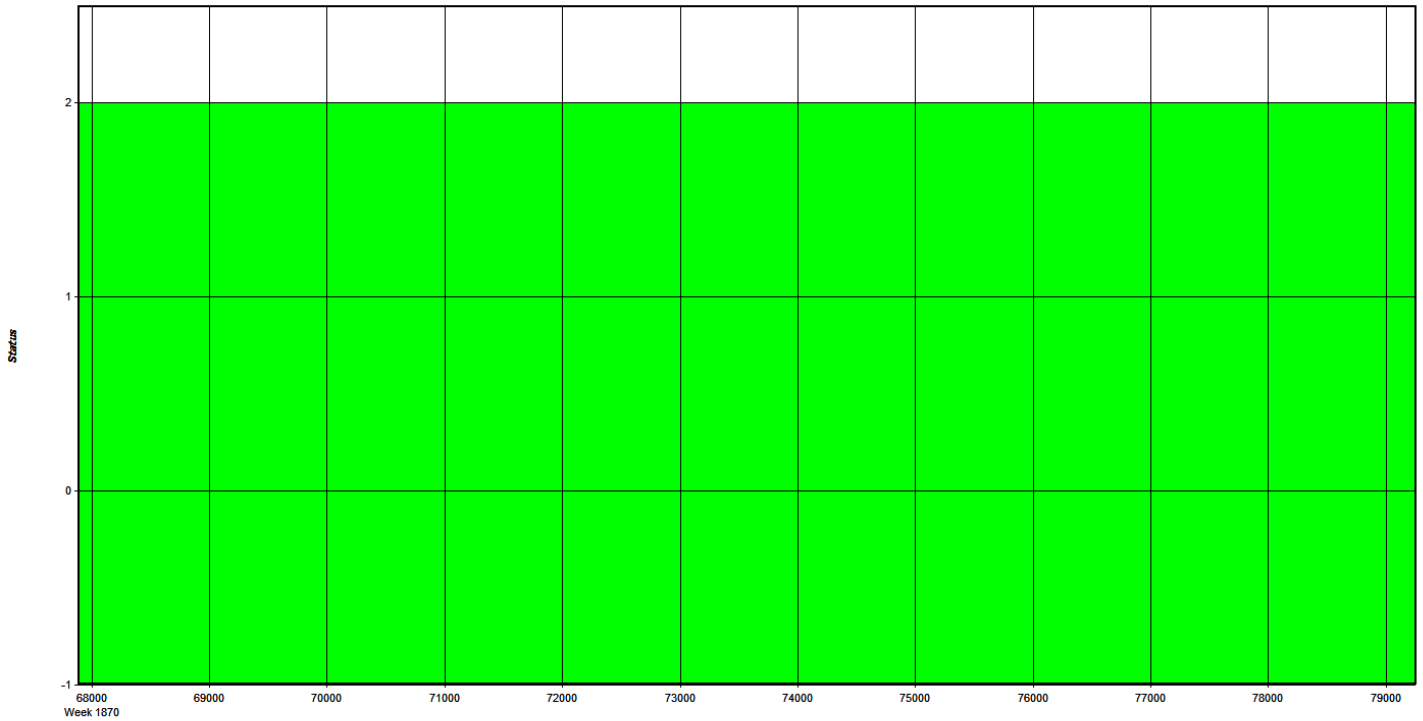


GPS Time (TOW, GMT zone)
— Heading/Azimuth — GPS-COG









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

Coordinate/Antenna Settings

Master Remote

Base Station
 1: VTD7 Name: VTD7 Disabled
 File: F:\26818_USGS_CT_River\STY3\20151108_F1_USGS_CT_RIV

Coordinates
 Latitude: North 44 23 52.31066 Compute from PPP
 Longitude: West 72 01 32.39267 Enter Grid Values
 Ellipsoidal height: 166.528 m Enter MSL Height
 Datum: NAD83(2011) 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

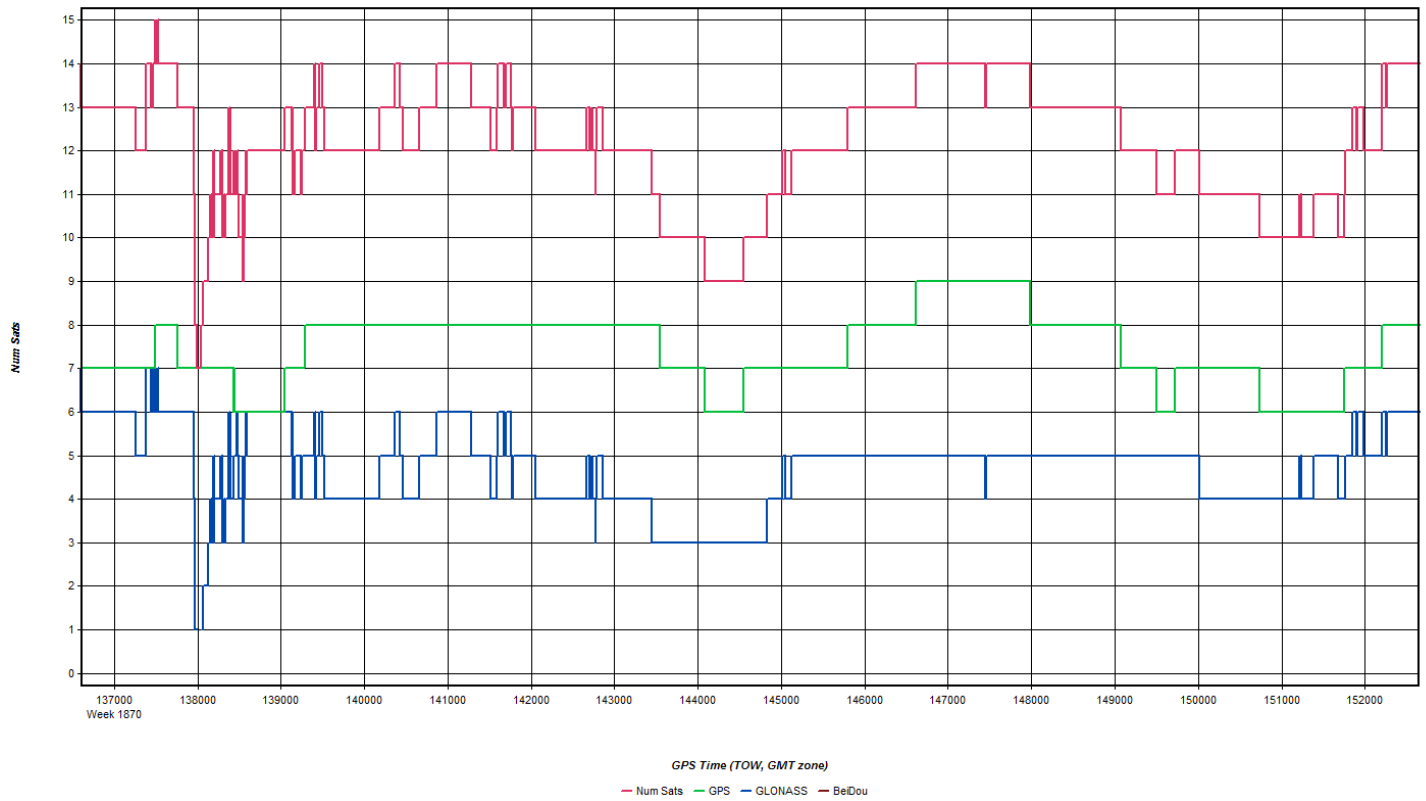
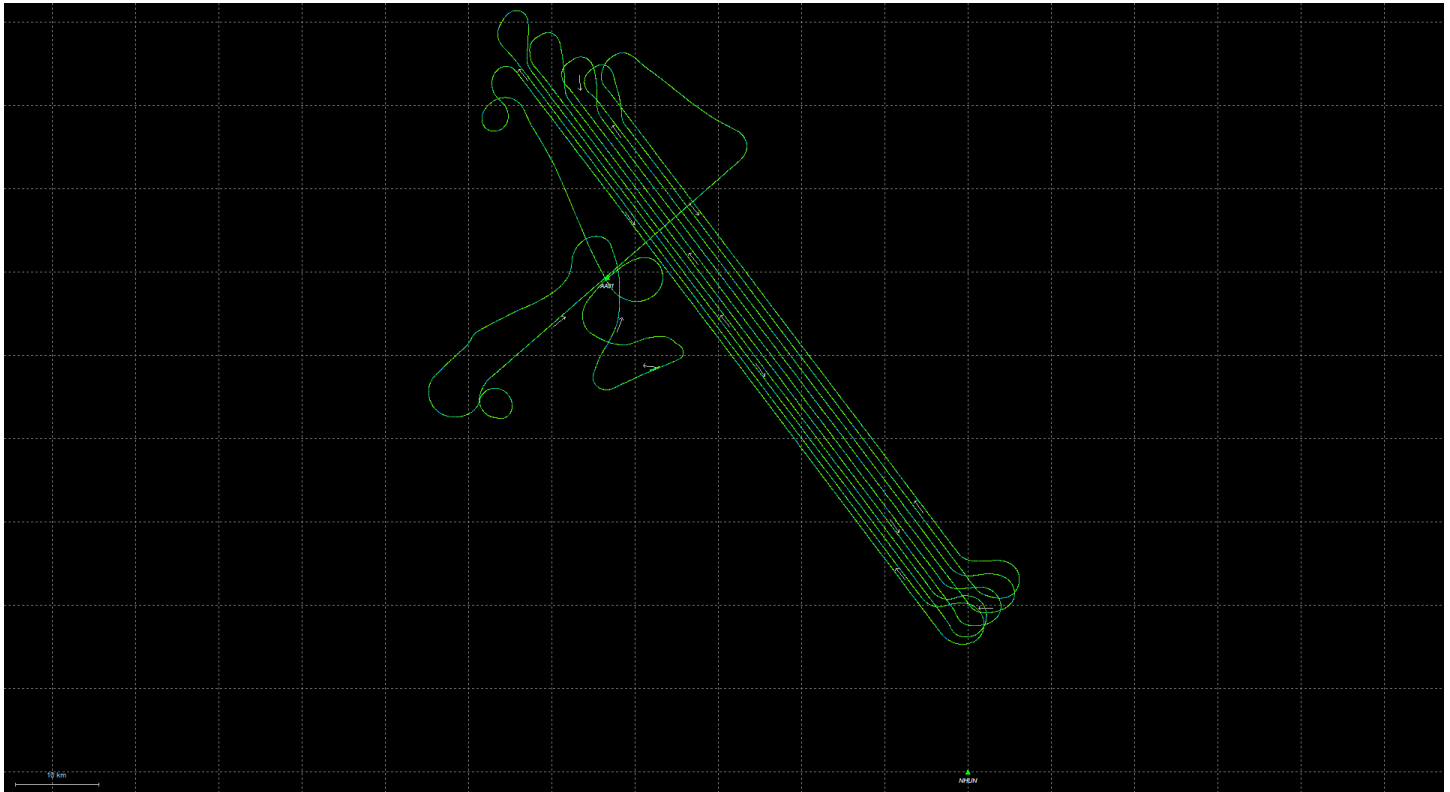
OK Cancel

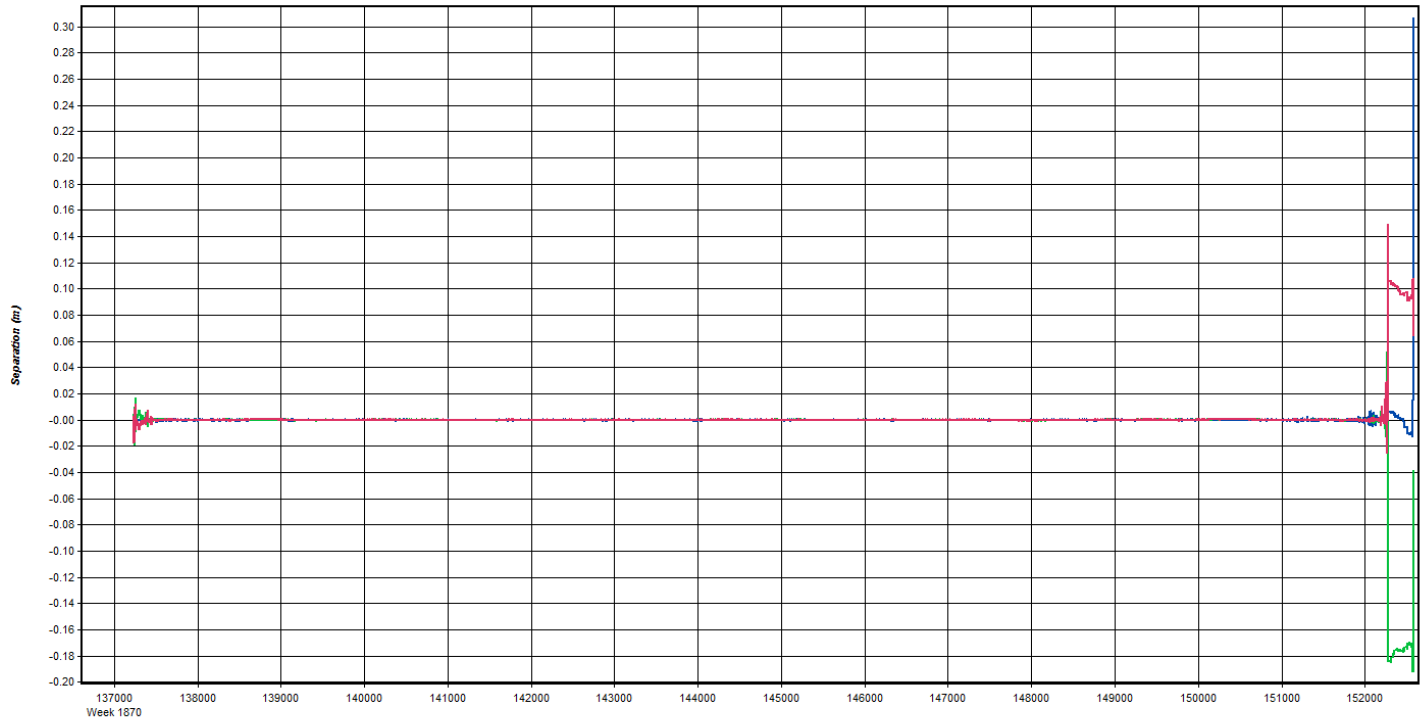
Flight Log

OPERATORS FLIGHT LOG													
MISSION: 20151108 - 191808		DATE: 11/8/15		UTM: 18		LEICA ALS-70		SENSOR: SNI7178					
PROJECT NUMBER AND NAME	LINE No.	Lbl	Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF KHZ	FIXED GAIN	Flying Ht (m)	TIME		REMARKS	
										START	STOP		
26818 USGS CT RIVER	609	8047	283	154	50	28	273	255	8167	11088		HIGH WINDS 61 KTS	
	608	8096	186	185					8197	19230		* TRACE AMOUNTS OF SNOW	
	607	8045	357	160					8220	19334		→ getting good returns	
	606	8047	179	175					8119	193816	194040		
	605	8043	355	121					8269	194610			
	604	8042	179	168					8119	195241	195619		
	603	8041	555	126					8195	200107	200424		
	602	8040	177	169					8115	200805	201037		
	745	8125	237	134			31	205	255	7239	201716	201833	* FLEW CROSSLINE BEFORE 8055, BUT DID CROSS 8055
	610	8048	081	170			28	273	255	8460	202511	202641	O.N. CROSSLINE *
	611	8049	255	126						8574	203236	203435	
	612	8050	098	175						8596	203931	204114	
	613	8051	240	133						8614	204630	204837	
	614	8052	080	173						8471	205253	205448	CRABS 27°-30° AT TIMES
	615	8053	256	141						8176	205752	210335	WIND 40-50 KTS
	616	8054	077	172						8083	211618	211936	2107% BAD MISSED I.P
	617	8055	259	147						8183	213745	214184	↓ 212401 (CROSSLINE)
STATUS		TOTAL LINES		FLOWN		LEFT		AIRCRAFT		FERRY		NOTES:	
												START	
												FINISH	
												CORRS: 215748 FIG8: 214141	

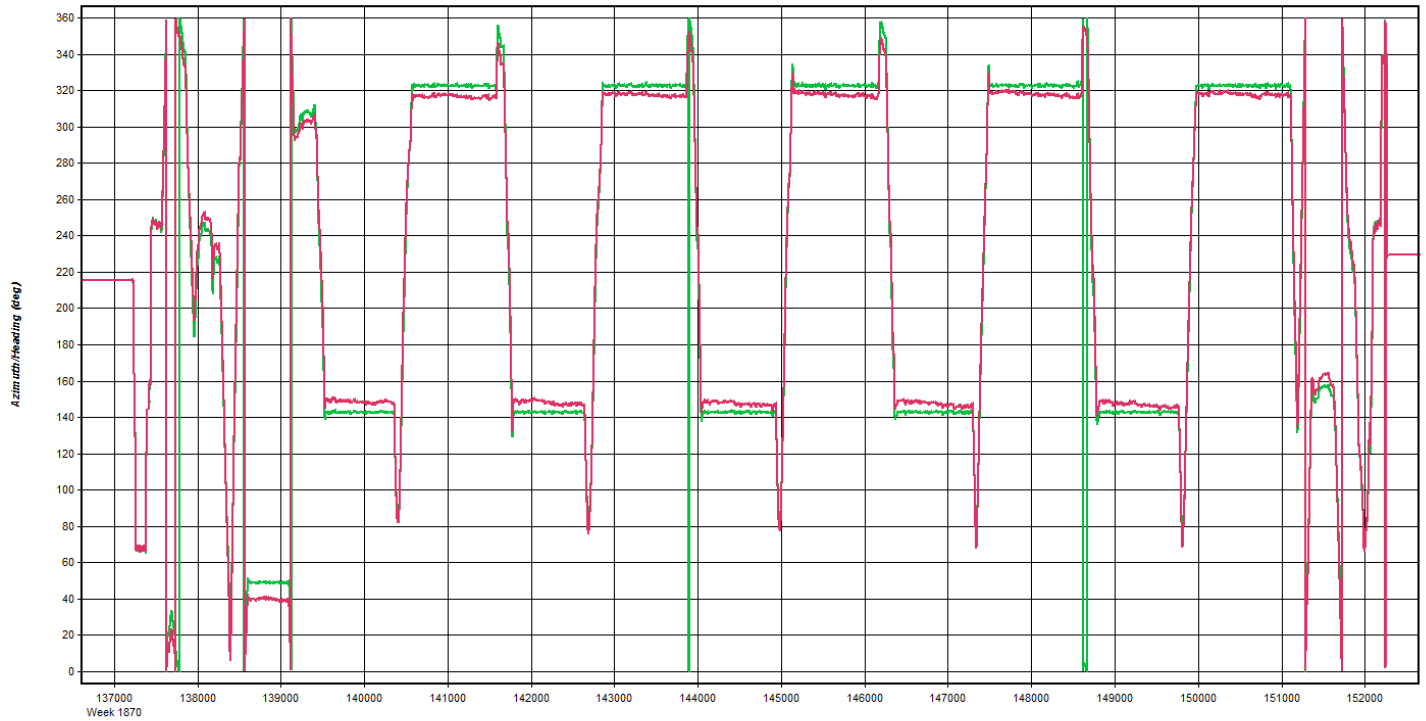
Quantum Spatial N 6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 FAX: 888-253-6695 E-Mail: amepphoto@quantumspatial.com

Nov 09, 2015-A (N6GR, SN7161)

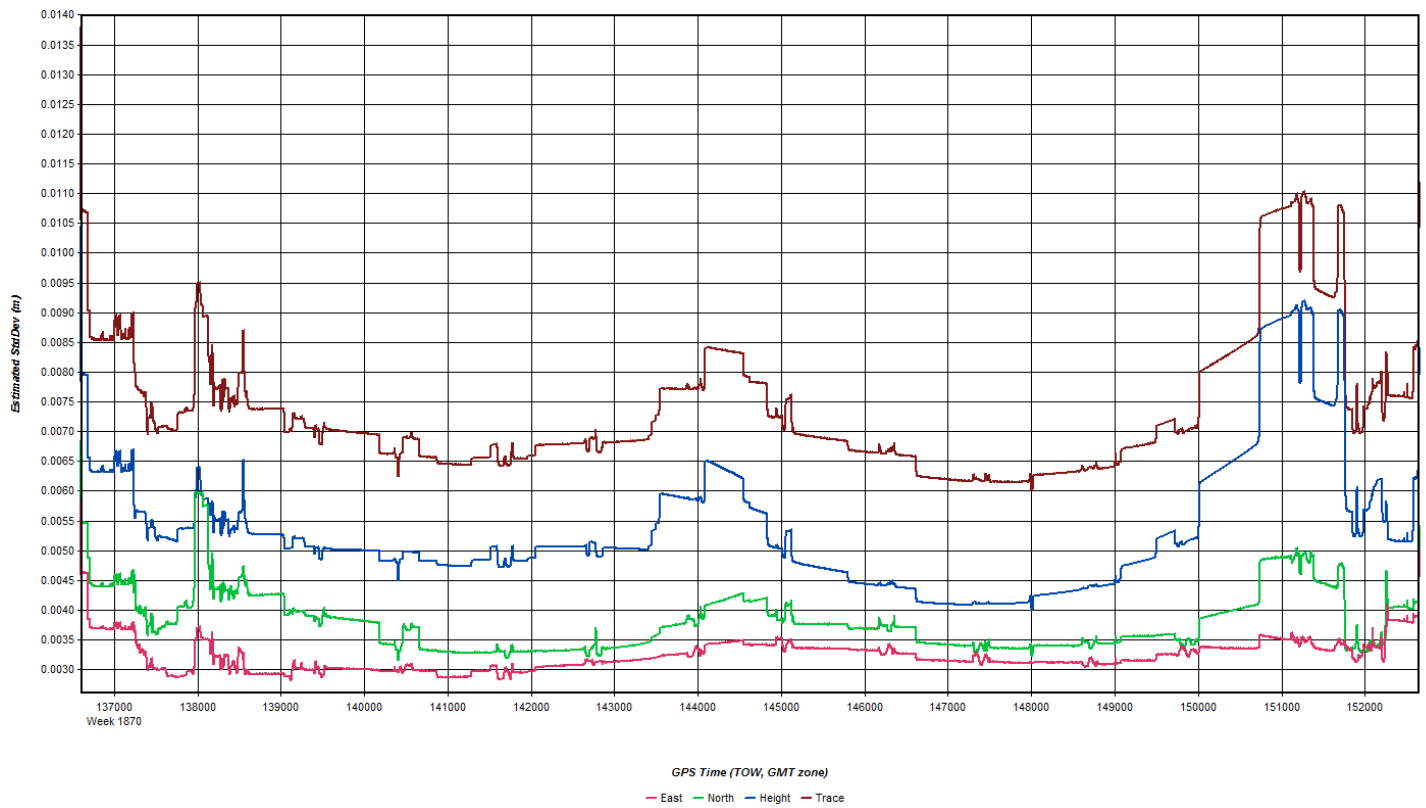
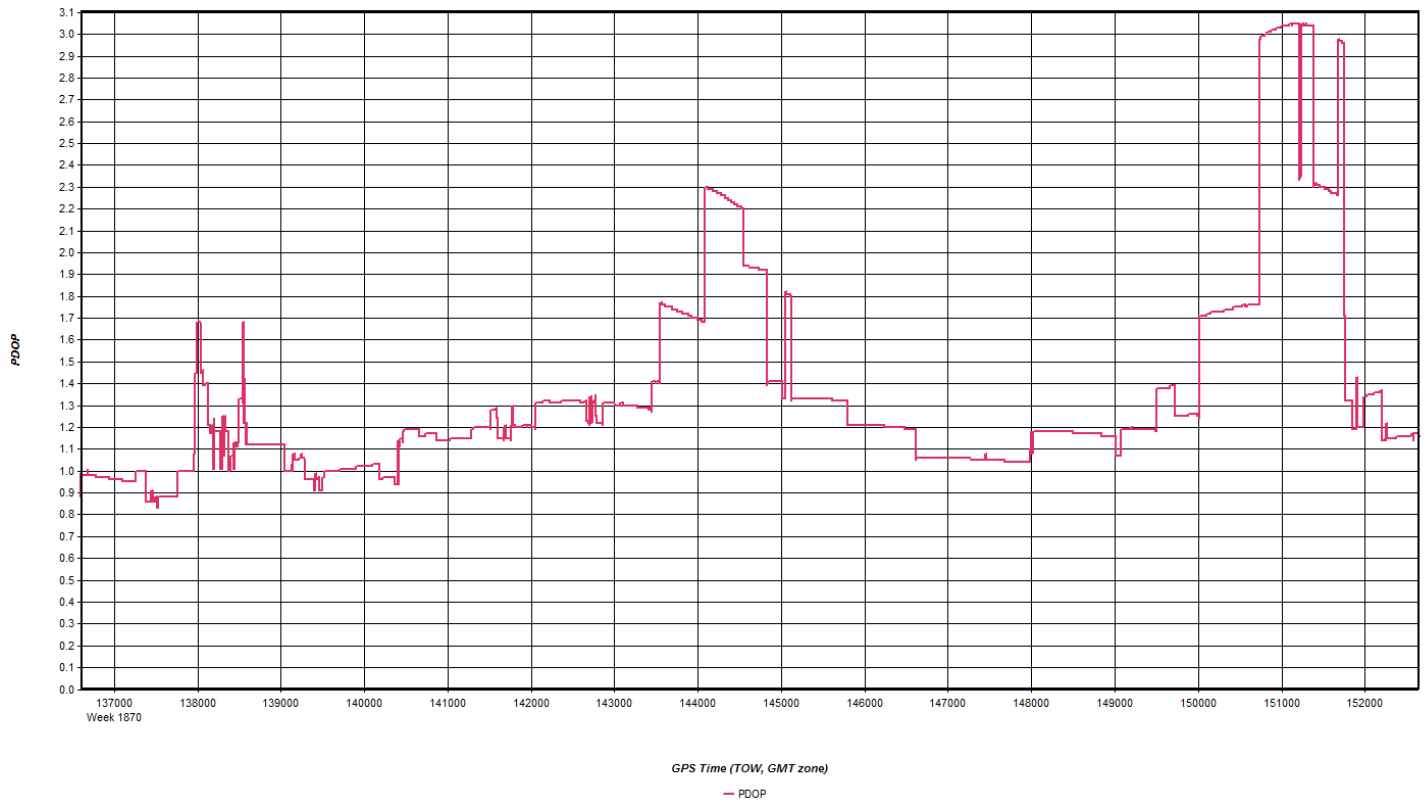


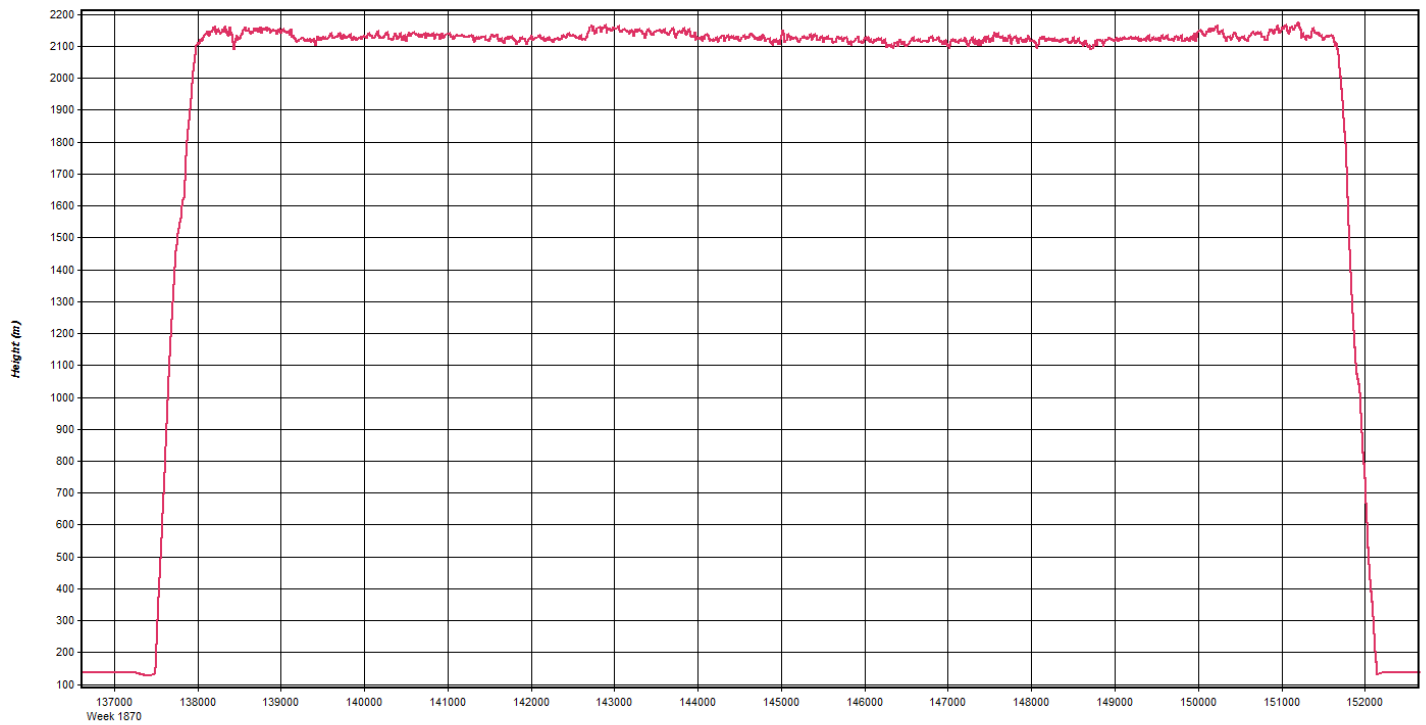
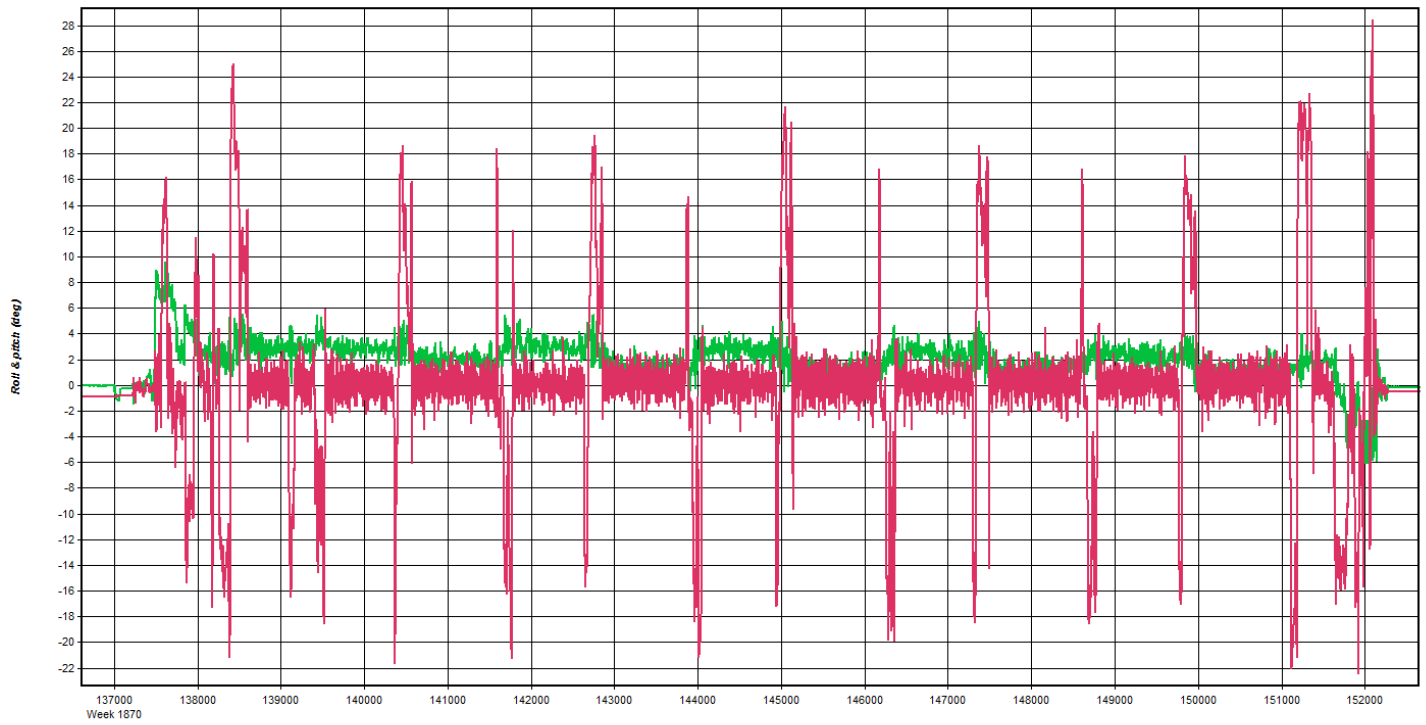


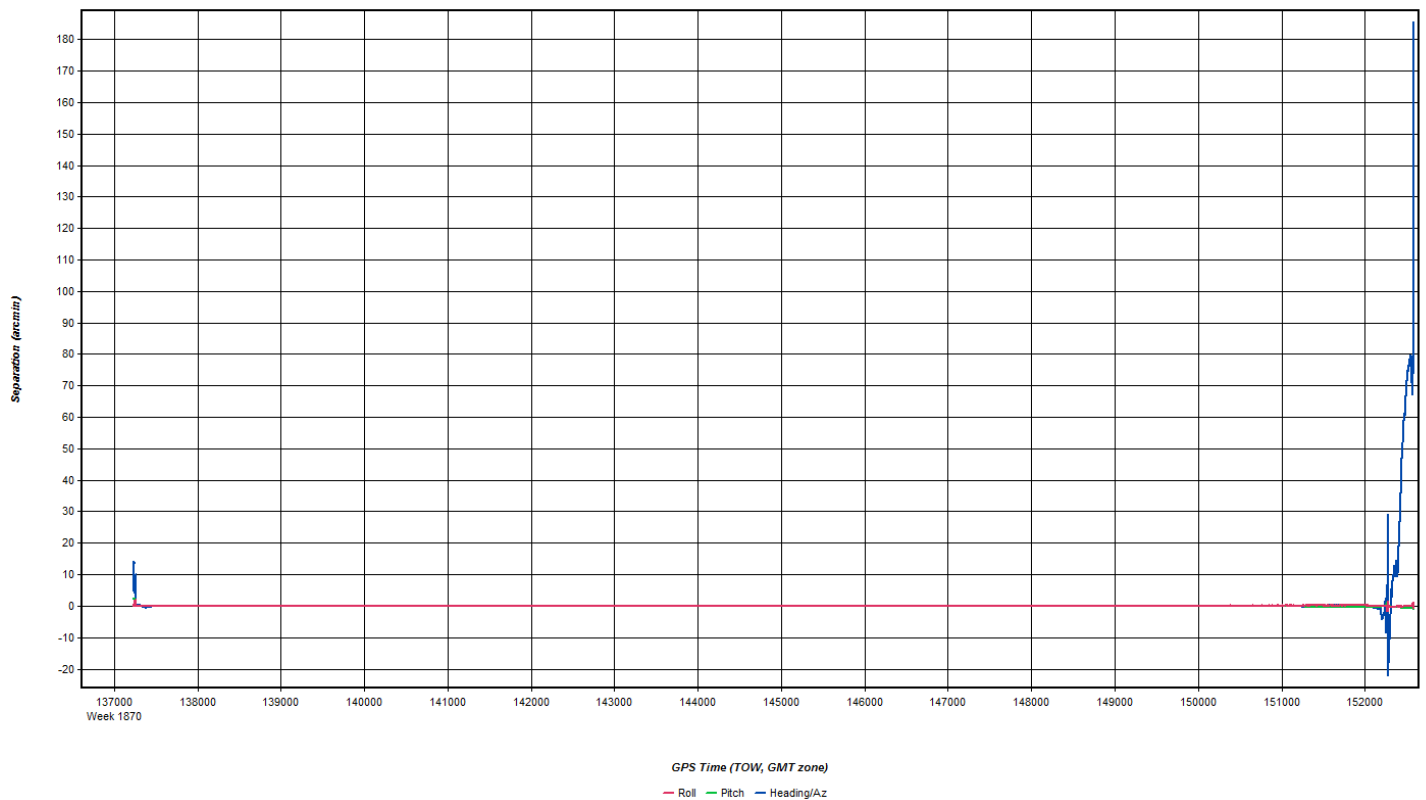
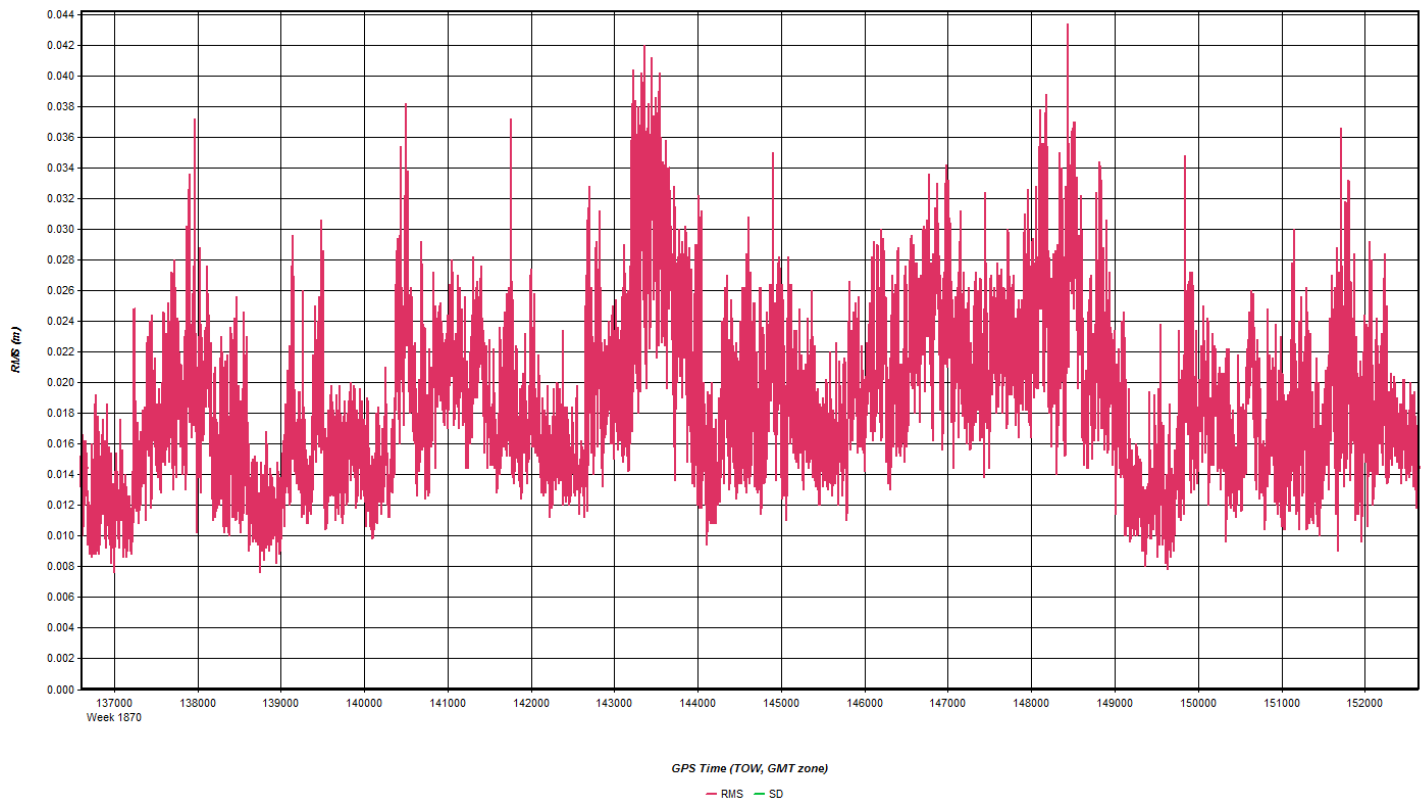
GPS Time (TOW, GMT zone)
— East — North — Up

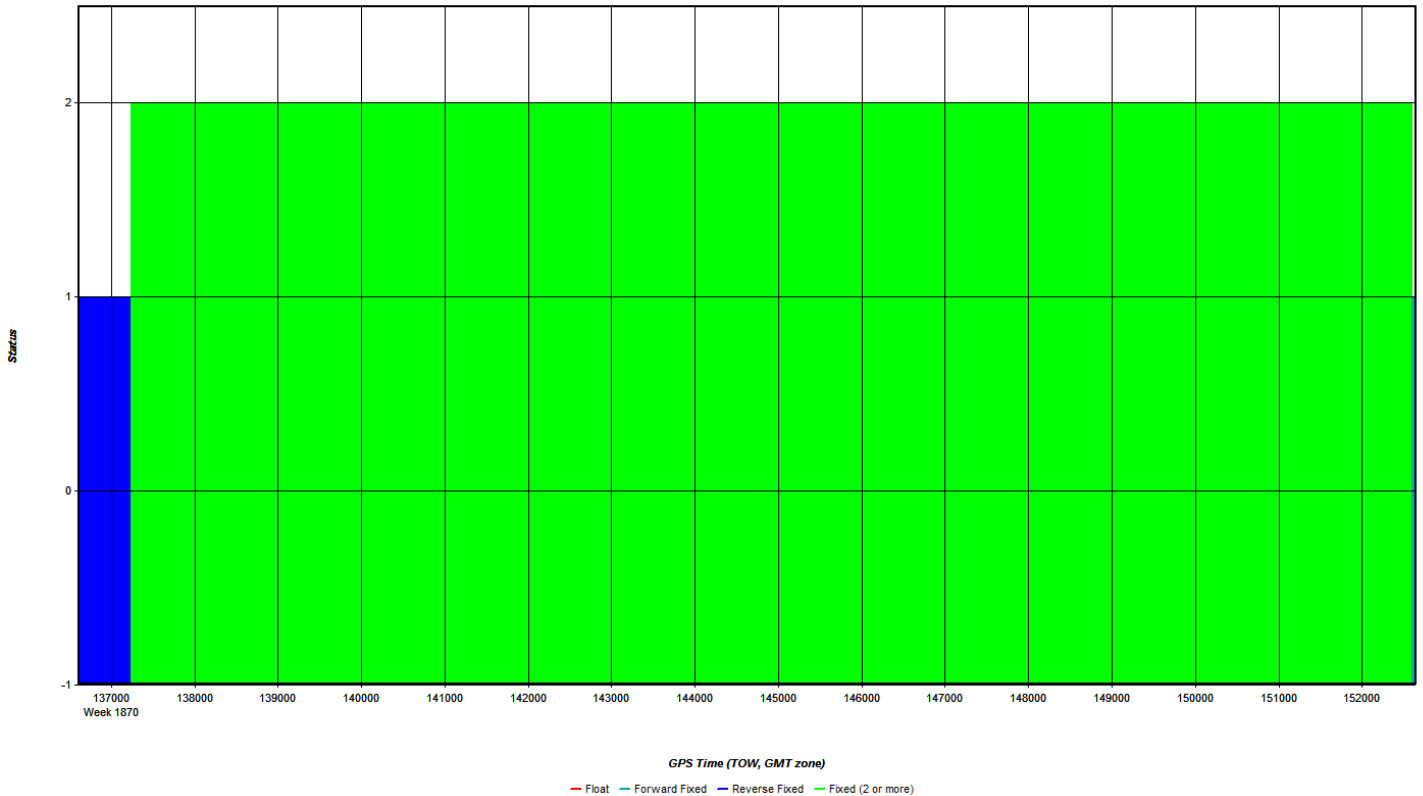


GPS Time (TOW, GMT zone)
— Heading/Azimuth — GPS-COG









Coordinate/Antenna Settings

Master Remote

Base Station
 2: AA01 Name: AA01 Disabled
 File: F:\Proc\26818_CT_River\29cl\26818_USGS_CT_River_Winnepe

Coordinates
 Latitude: North 43 40 21.87219 Compute from PPP
 Longitude: West 71 29 10.54110 Enter Grid Values
 Ellipsoidal height: 221.099 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

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

Master Remote

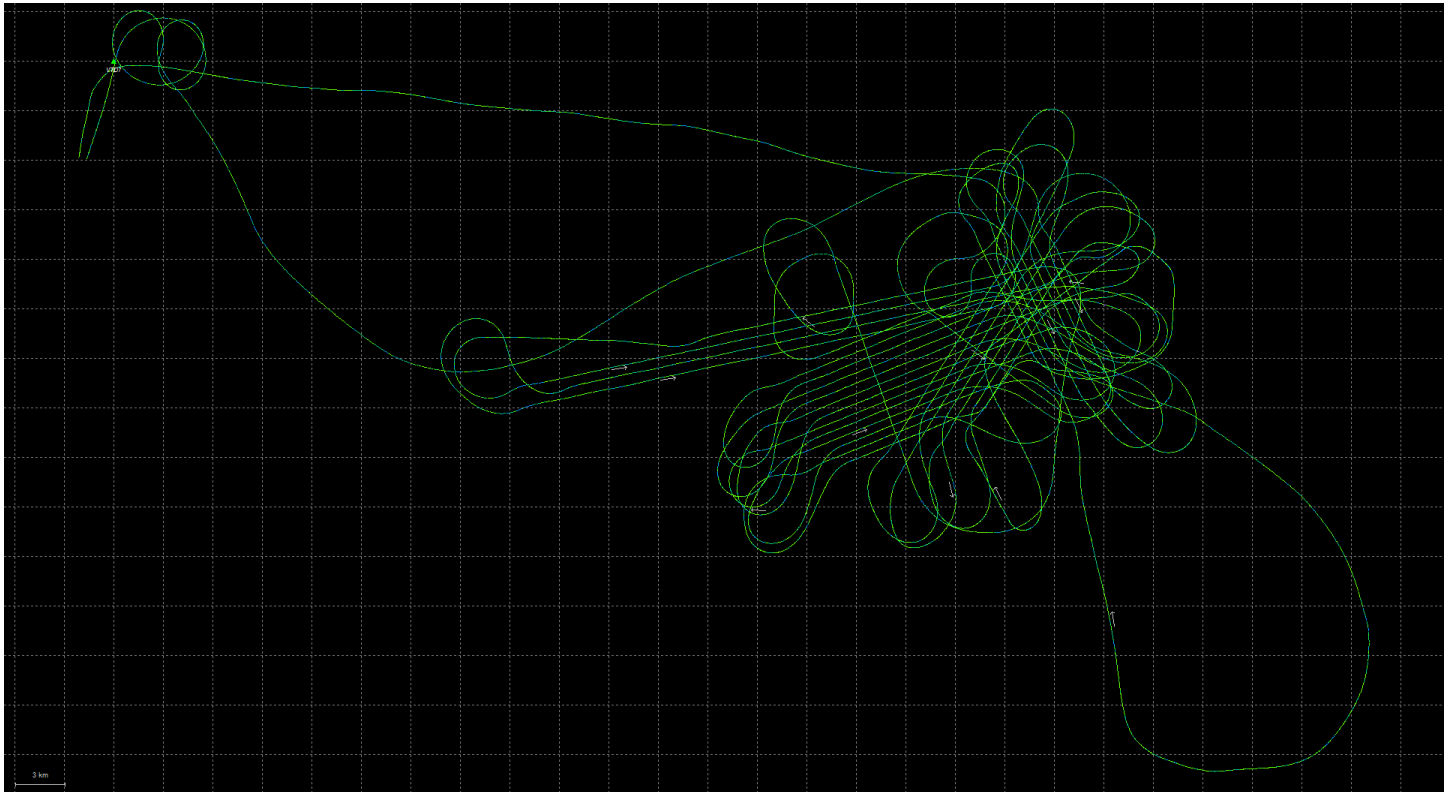
Base Station
1: NHUN Name: NHUN Disabled
File: F:\Proc\26818_CT_River\29cl\26818_USGS_CT_River_Winnepe

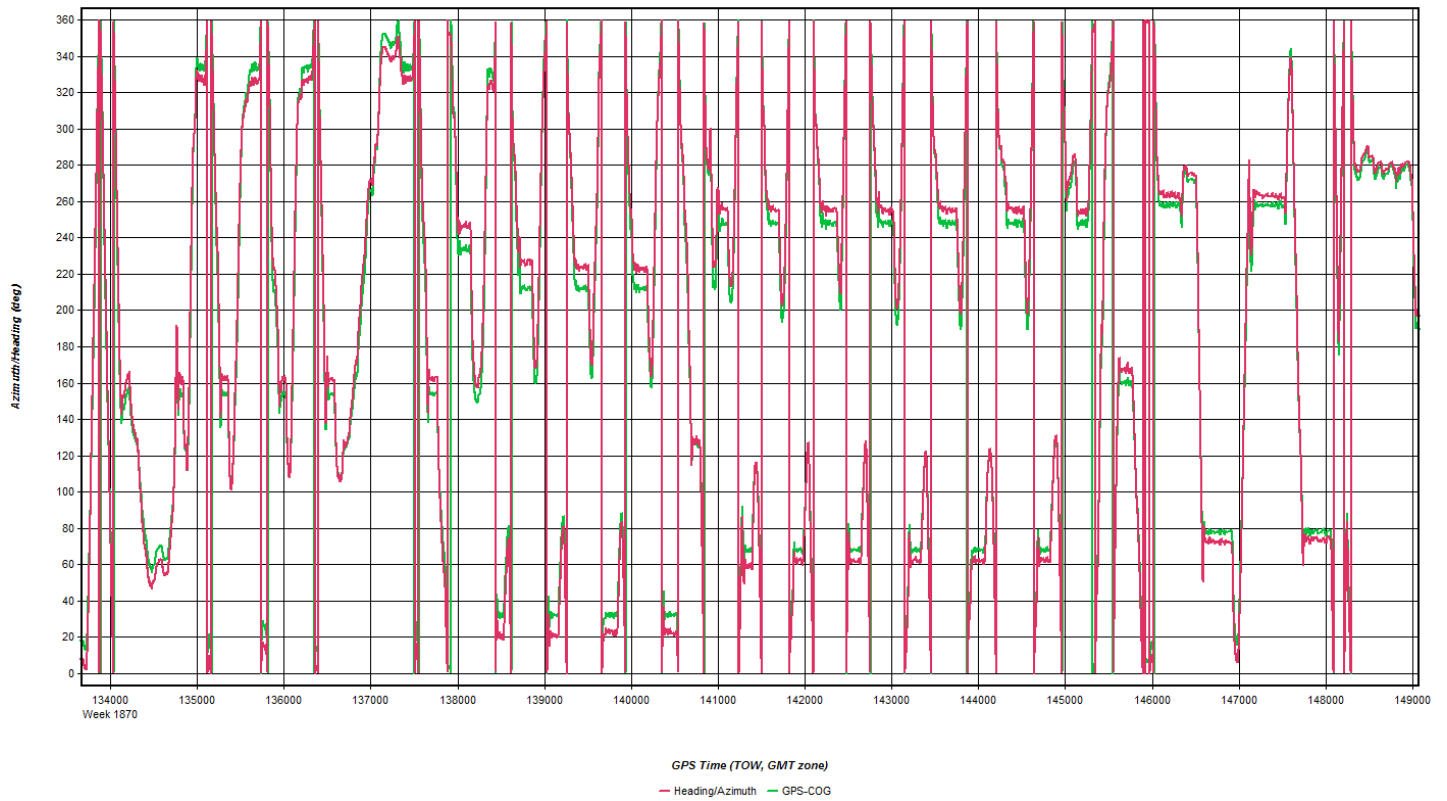
Coordinates
Latitude: North 43 08 33.17927 Compute from PPP
Longitude: West 70 57 06.86279 Enter Grid Values
Ellipsoidal height: 9.116 m Enter MSL Height
Datum: NAD83(2011) Datum Options
Select From Favorites Add To Favorites Use Average Position

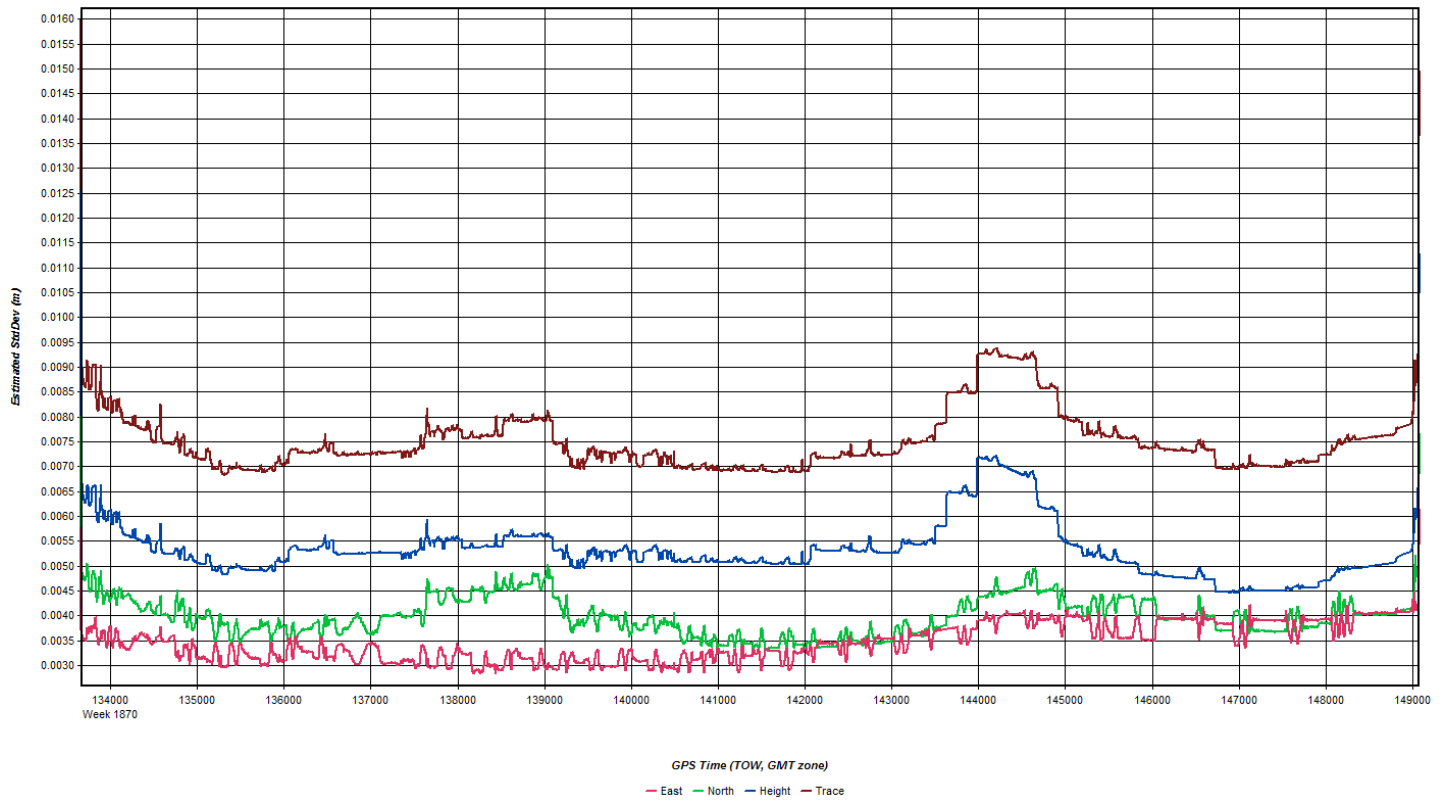
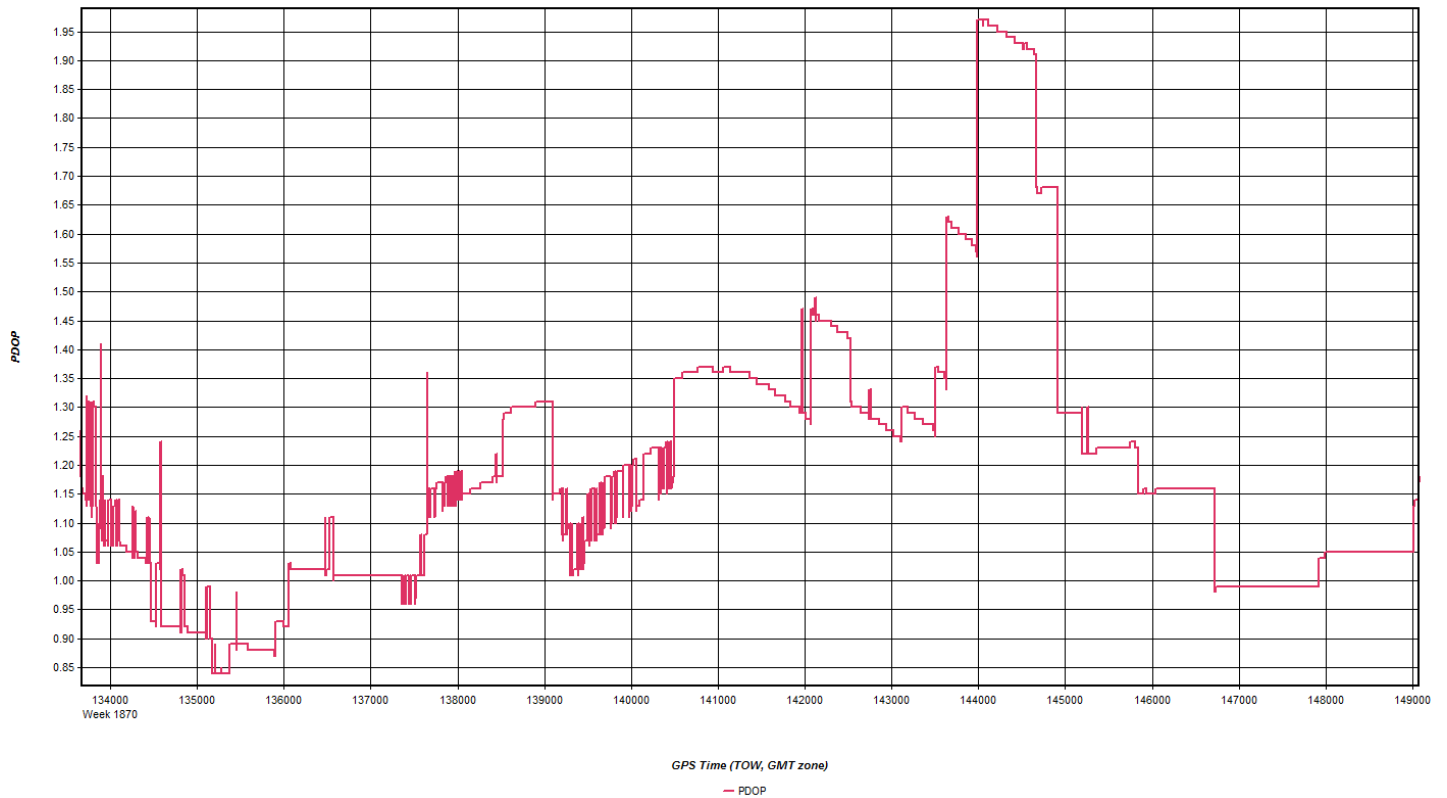
Antenna Height
From station file: TRM57971.00, NONE View STA File
Antenna profile: TRM57971.00 Info
Measured height: 0.000 m
ARP to L1 offset: 0.067 m
Applied height: 0.067 m
Measured to:
 ARP
 L1 Phase Centre
Compute From Slant

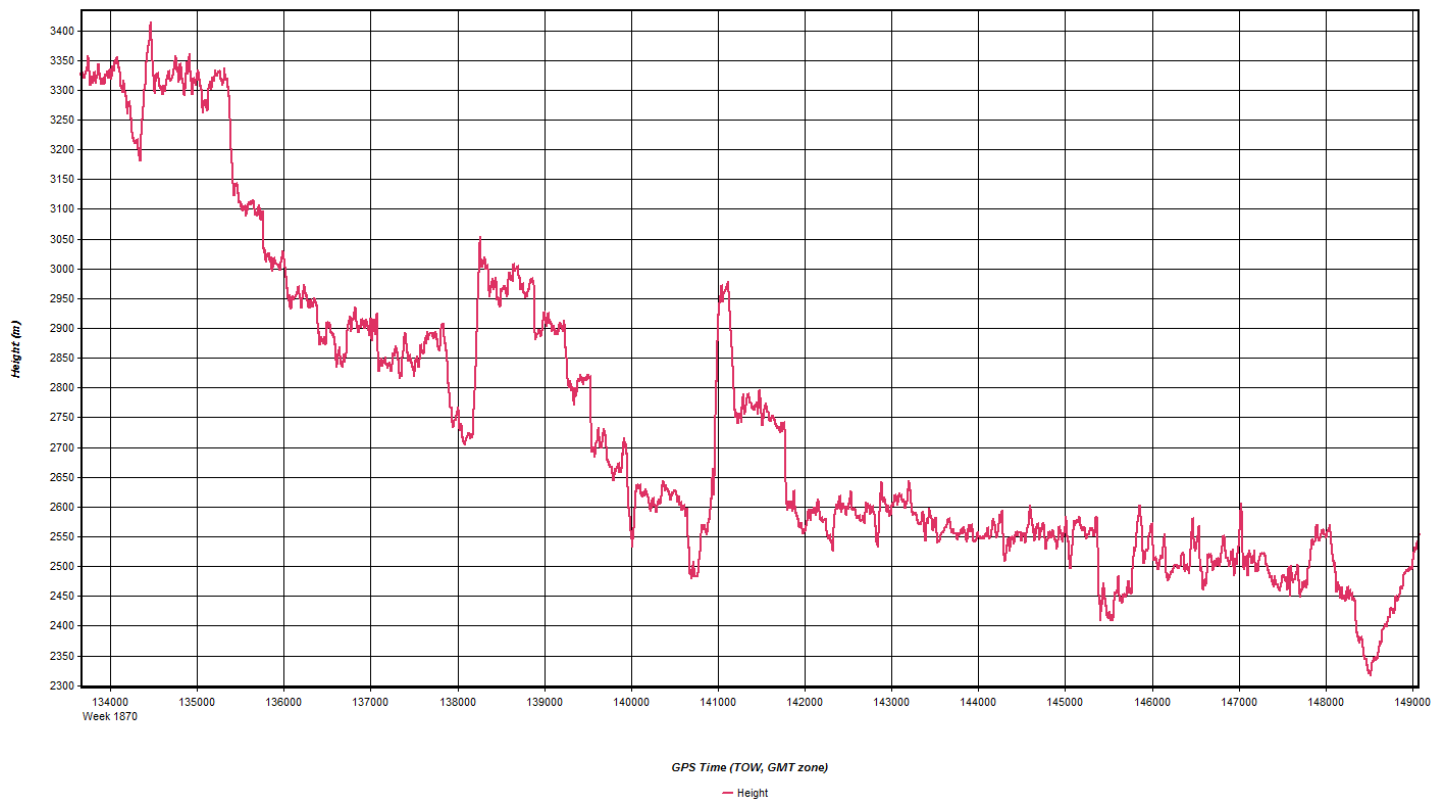
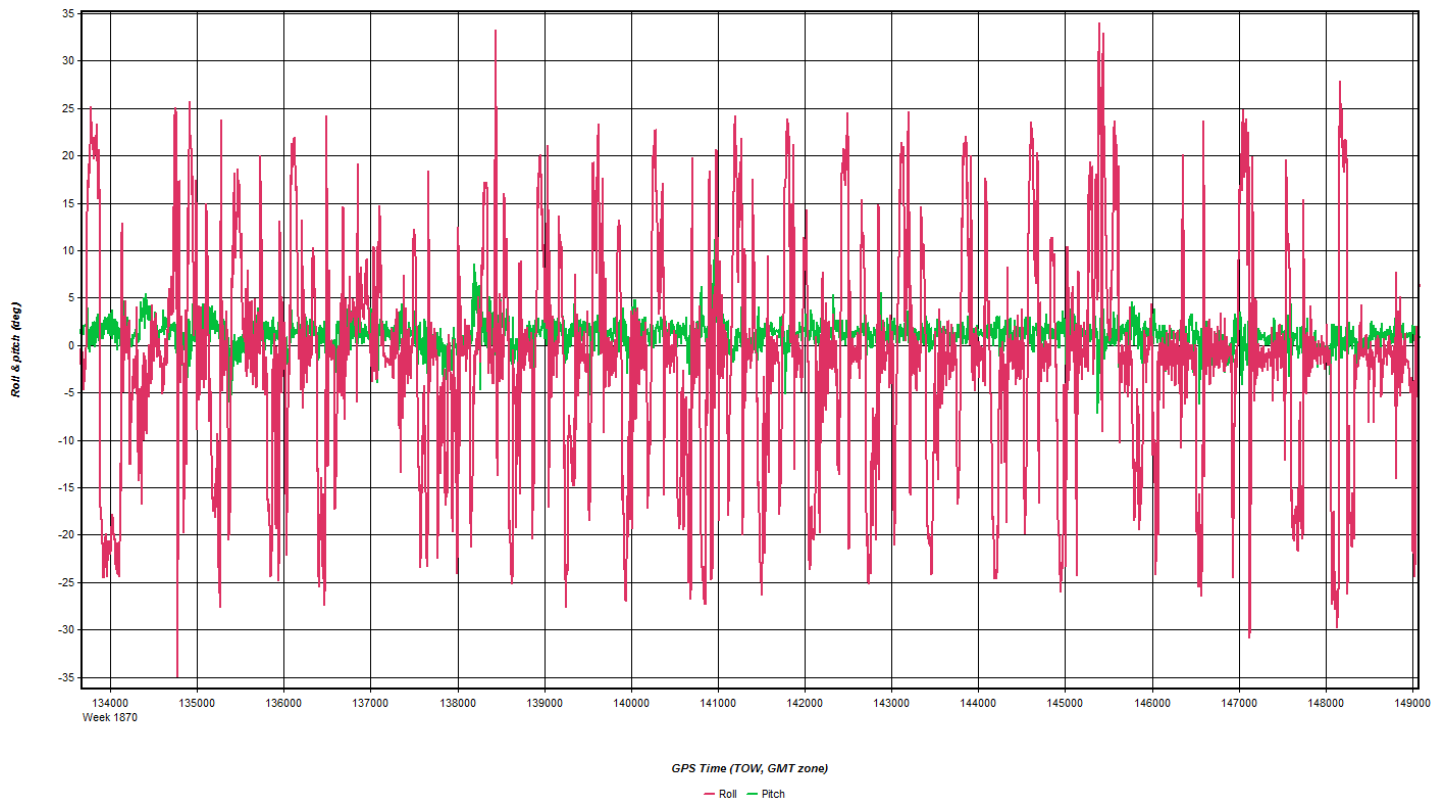
OK Cancel

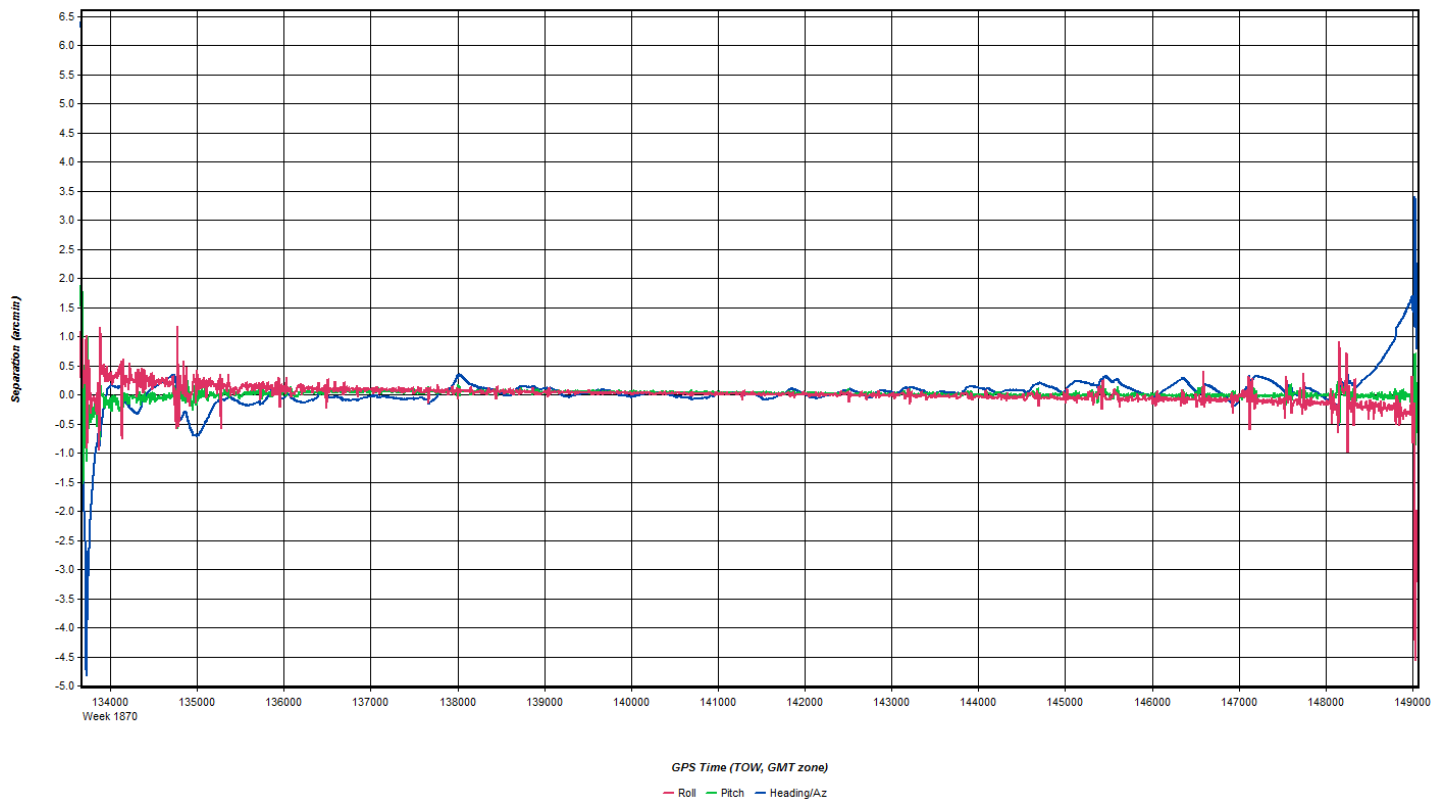
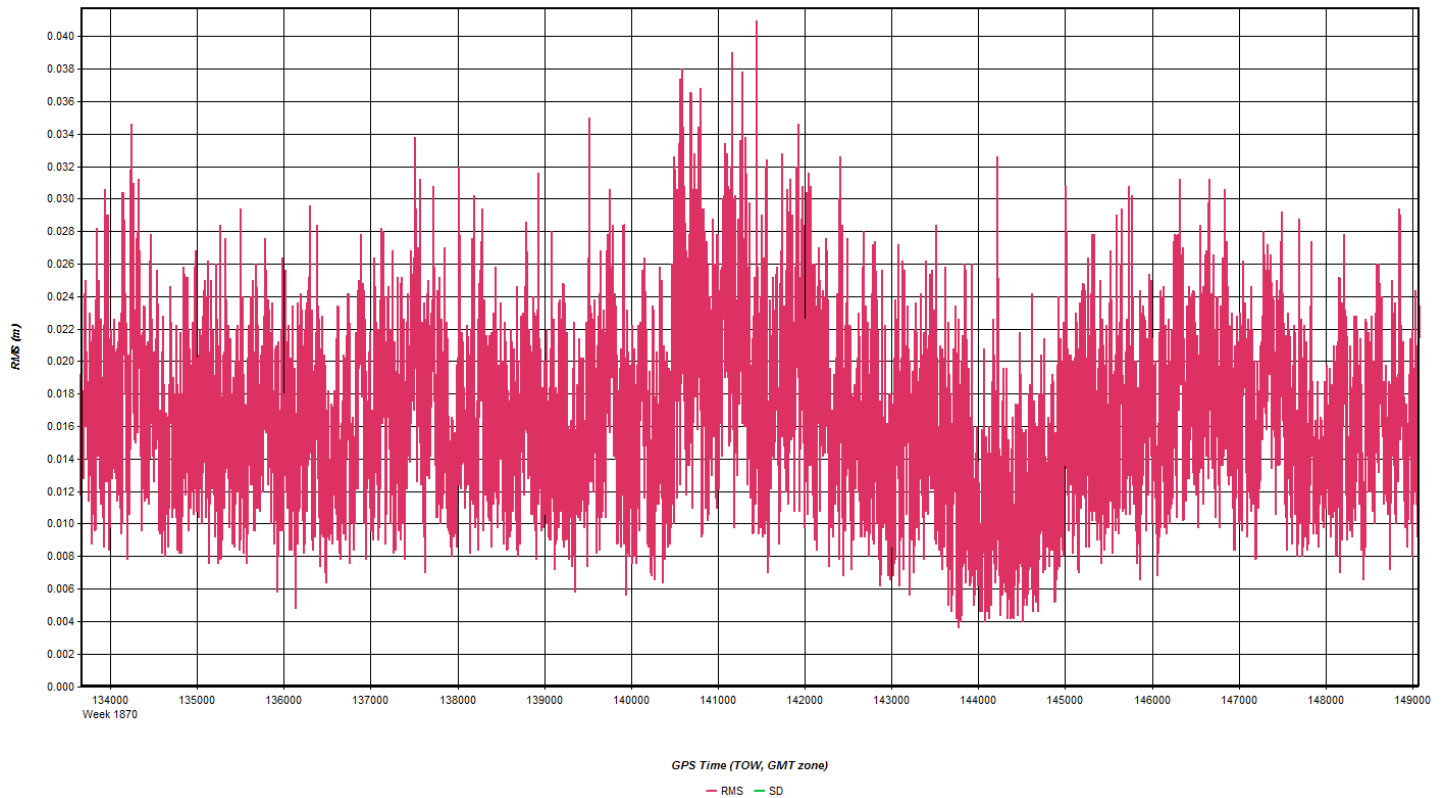
Nov 09, 2015-A (N22GE, SN7178)

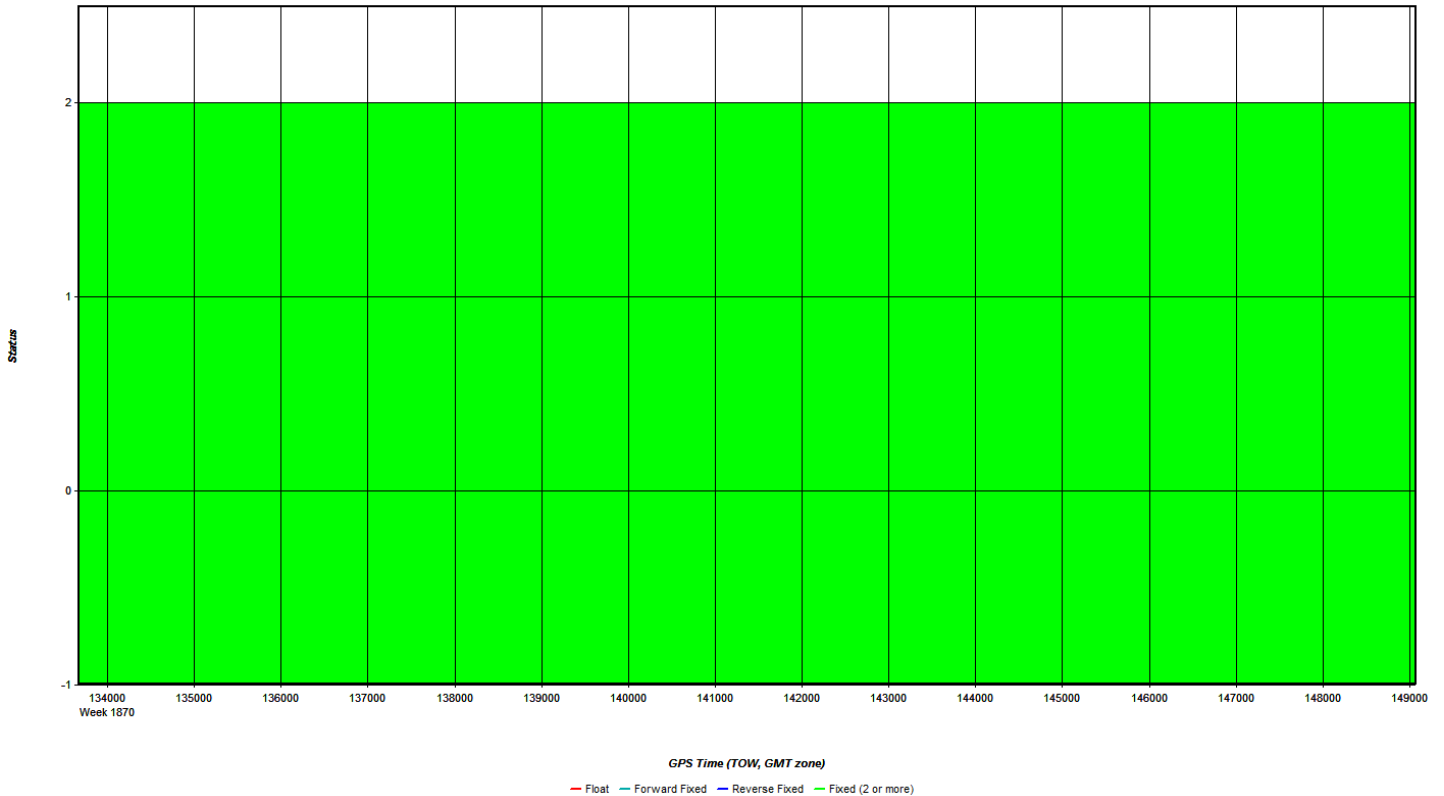












Coordinate/Antenna Settings

Master Remote

Base Station
 1: VTD7 Name: VTD7 Disabled
 File: F:\26818_USGS_CT_River\2B9R\11092015_26818_A_7178_N2

Coordinates
 Latitude: North 44 23 52.31066 Compute from PPP
 Longitude: West 72 01 32.39267 Enter Grid Values
 Ellipsoidal height: 166.528 m Enter MSL Height
 Datum: NAD83(2011) 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

Scanned by CamScanner

OPERATORS FLIGHT LOG

MISSION: 2688 WMNF PILOT: D McEison OPERATOR: M HUST DATE: 11-15-15 LEICA ALS-70 AIRCRAFT: 22GE SENSOR: 7178

PROJECT NUMBER AND NAME	LINE No.	Lbl	Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (m)	TIME		REMARKS
										START	STOP	
2688 CT RIVER	8009	191		175	50	28°	273	355	10.8	1326	1326	
	8008	334		150						1330	1331	
	8007	151		190						1334	1335	
	8006	334		141						1340	1341	
	8005	151		180						1345	1346	
	8004	334		144						1350	1351	
	8003	151		177						1355	1356	
	8002	334		147						1410	1410	
	8001	151		165						1414	1415	
	8132	233		128						1420	1421	Crossflight
8016	32		169						1427	1428		
8015	212		135						1432	1434		
8014	32		169						1437	1438		
8013	212		160						1443	1444		
8012	32		174						1448	1450		
8011	212		161						1454	1456		
8010	32		167						1500	1501		
813	3127		205						1505	1505	Crossflight	
8009	248		157						1510	1511		
STATUS	TOTAL LINES			FLOWN	LEFT	SITE	AIRCRAFT	FERRY	STATIC	START	STOP	NOTES:
○				36		KLEB			5 min	7:00	1:00	Page 1 of 2
○									WX CLEAR			No Backup Base Station
○												DATA - CORS ONLY

Quantum Spatial N 6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 FAX: 888-253-6695 E-Mail: amepho@quantumspatial.com

Base Station Log

GPS OBSERVATION LOG

Station ID _____	Date <u>11 / 19 / 15</u>
Project Number <u>26818</u>	Julian Date <u>314</u>
Project Name <u>USGS CT. RIVER</u>	Start Time <u>: 12:53: pm</u>
Revr. Type <u>NovAtel DL-V3-L11.2</u>	Stop Time <u>: 5:30: pm</u>
Revr. S/N <u>7-0141418</u>	Revr. File Name <u>00082130.PDC</u>
Antenna Type <u>NovAtel</u>	Observer <u>Peter Tschanner</u>
Antenna S/N <u>NAE12110035</u>	

New or Existing Mon. New Existing
 Photo Taken: Yes No
 Monument Type: _____
 Spike PK Nail AM Washer
 Other _____

Height Readings:
(Top of Monument to Bottom of Ground Plane)

Start	<u>2</u>	M.	<u>3.2</u>	Ft.
Stop	<u>2</u>	M.	<u>3.2</u>	Ft.
Mean	<u>2</u>	M.	<u>3.2</u>	Ft.

Monument Sketch and Notes: KLEB

STORAGE SHEDS

AIRPORT RD.

TOWER

CEMENT PADS

PARKING

FBO

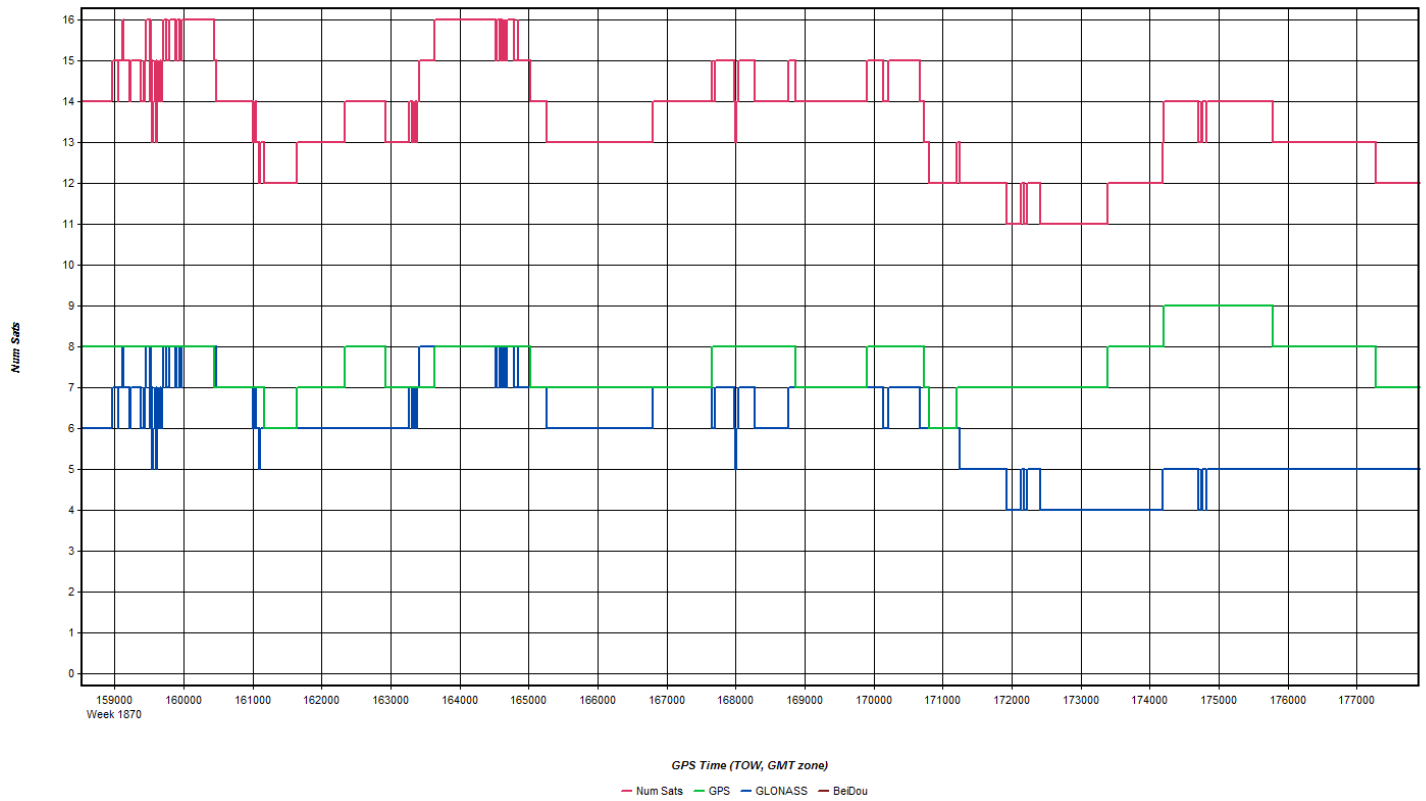
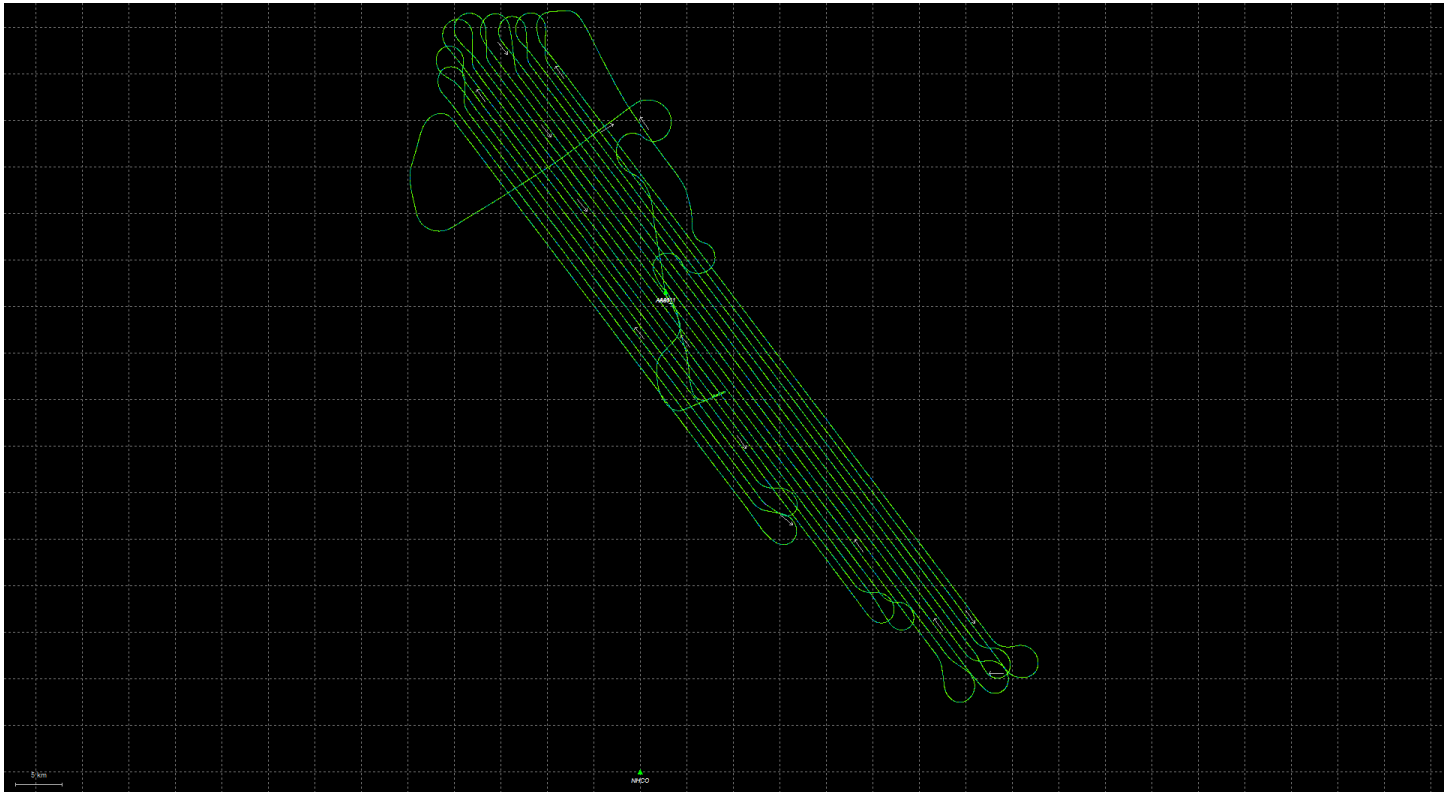
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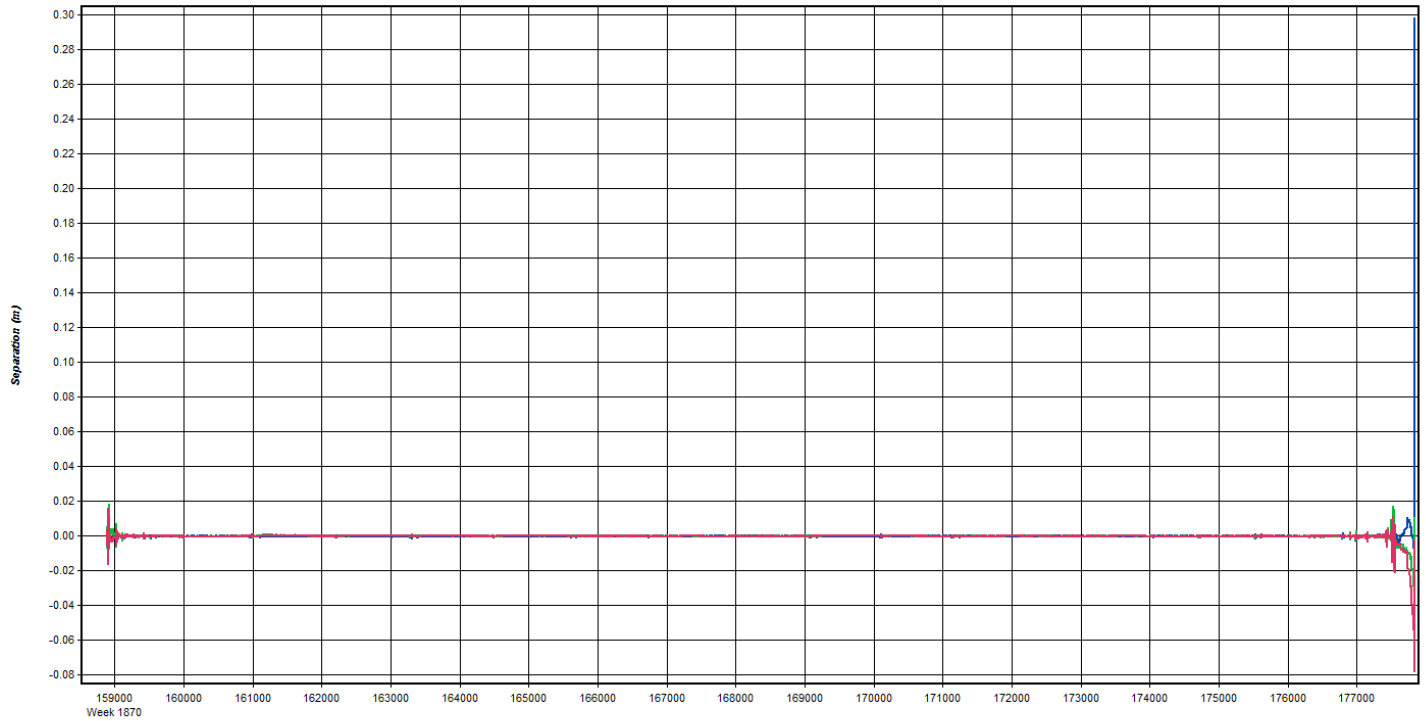
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N

Scanned by CamScanner

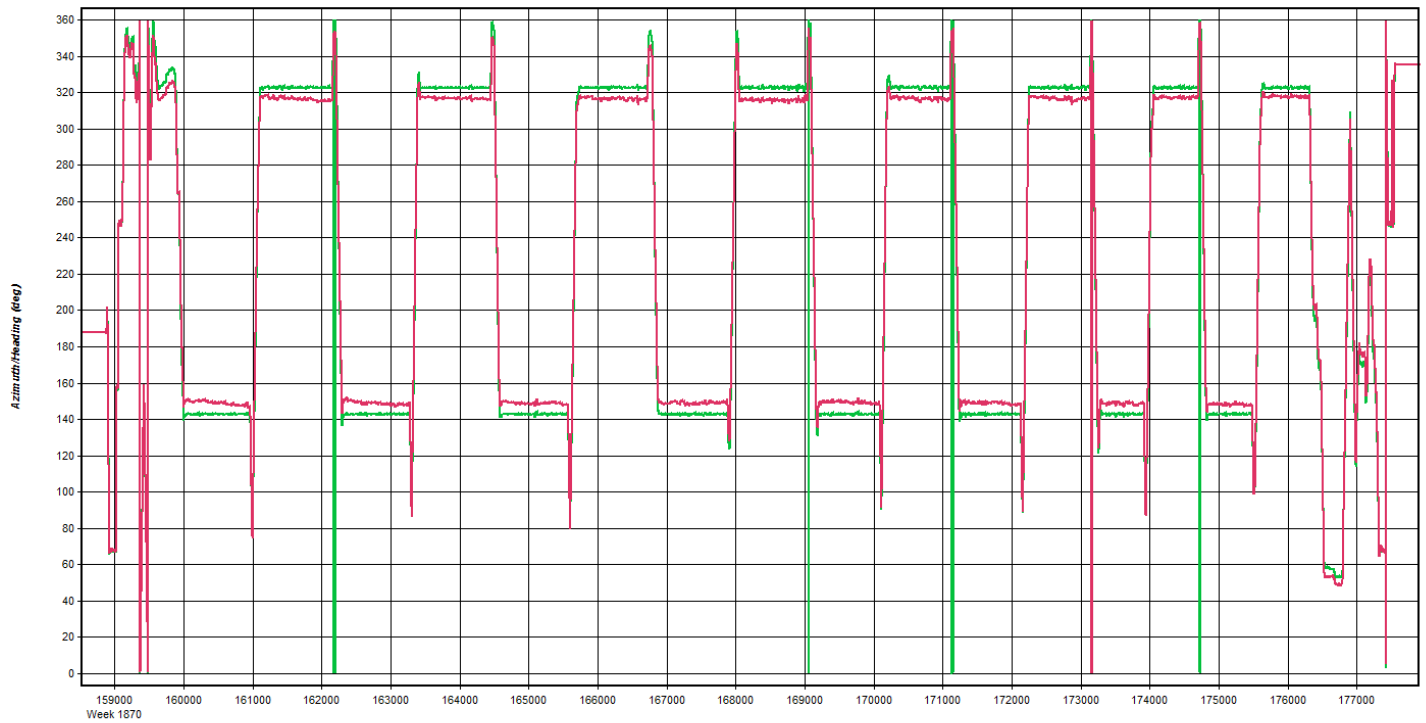
Nov 09, 2015-B (N6GR, SN7161)





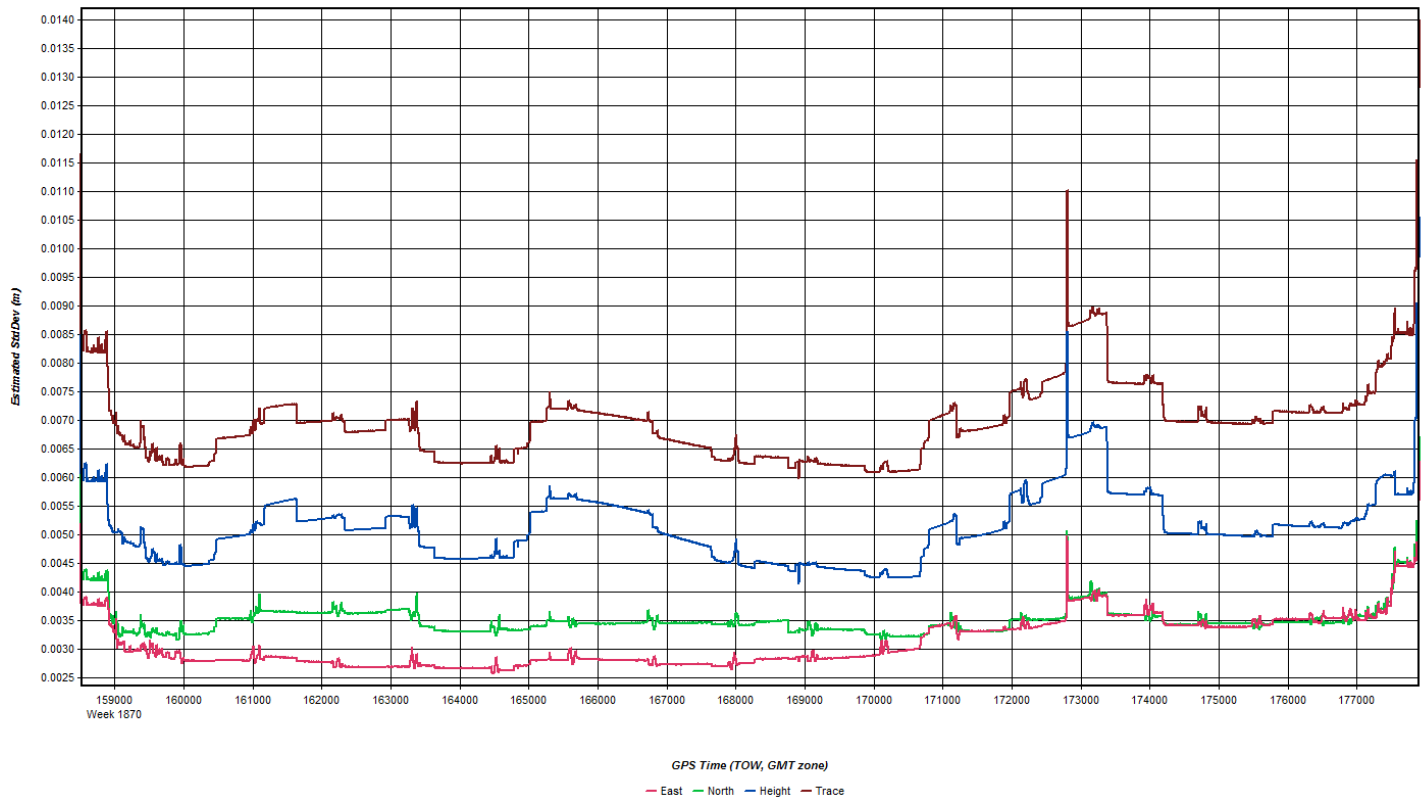
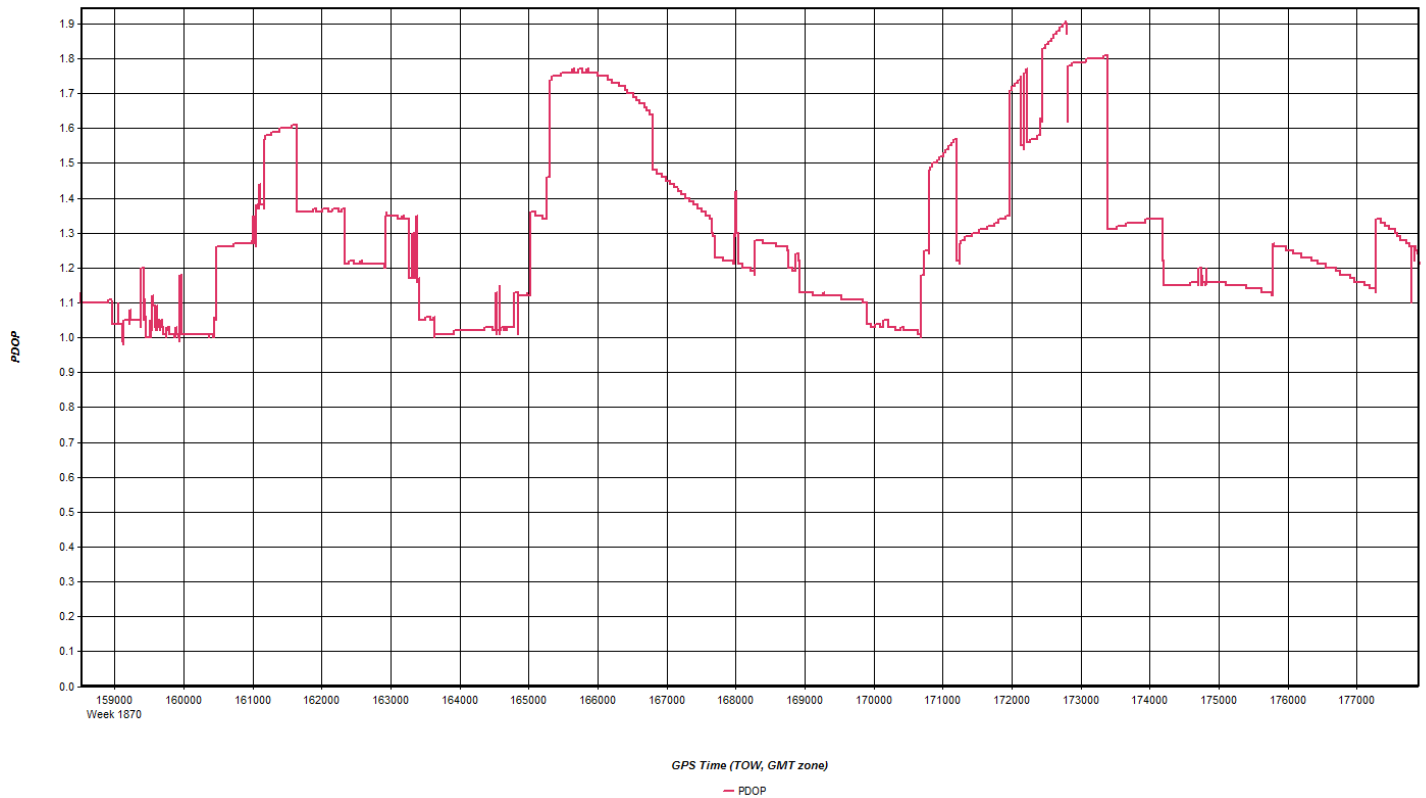
GPS Time (TOW, GMT zone)

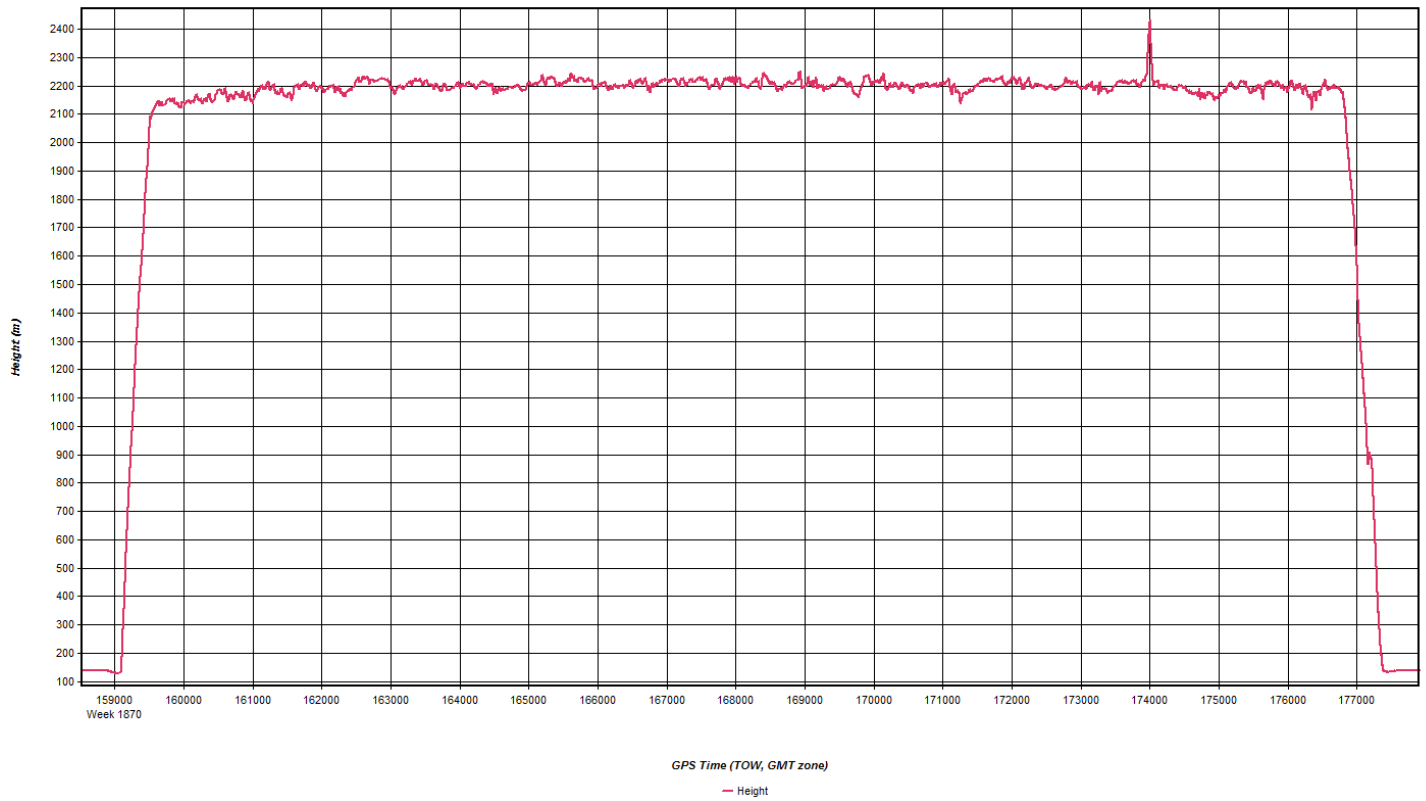
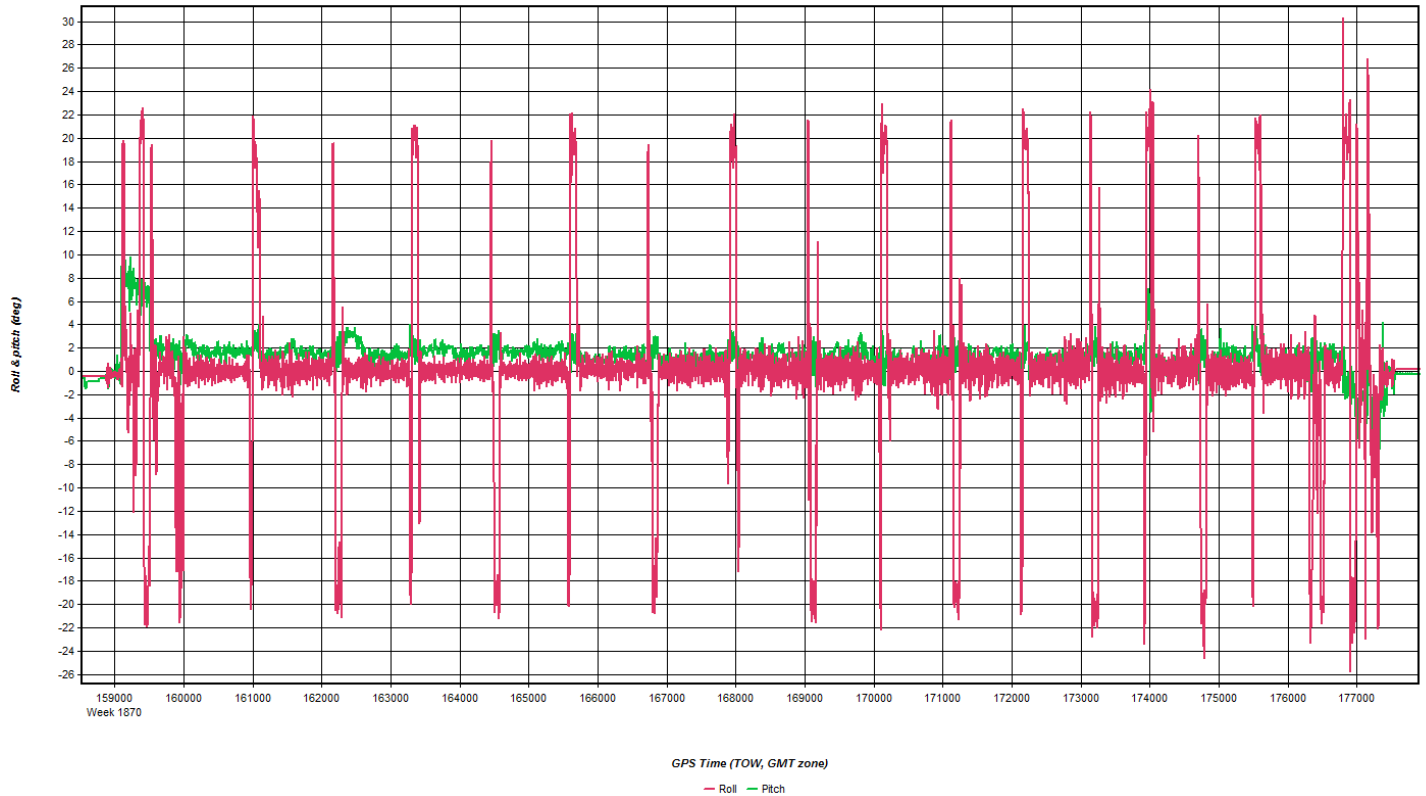
— East — North — Up

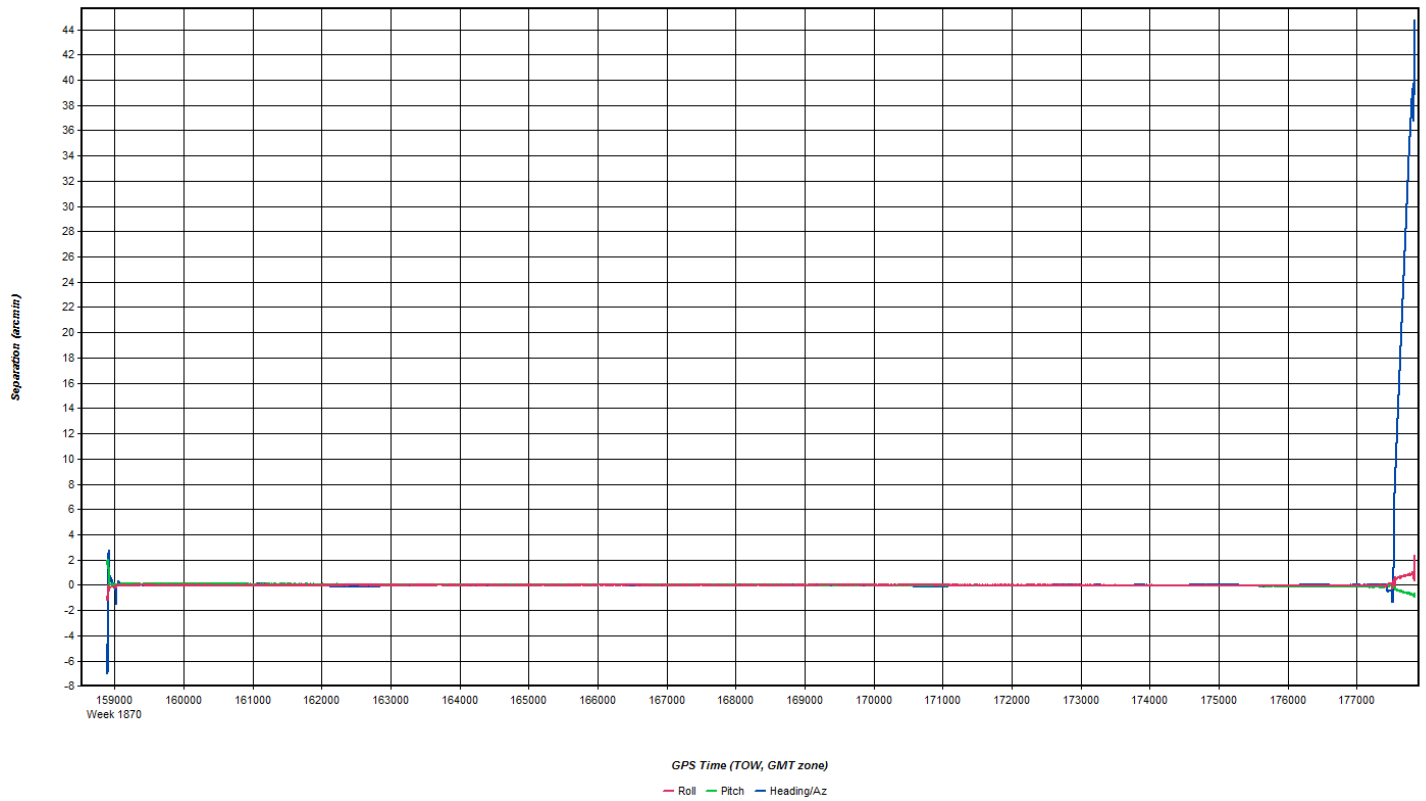
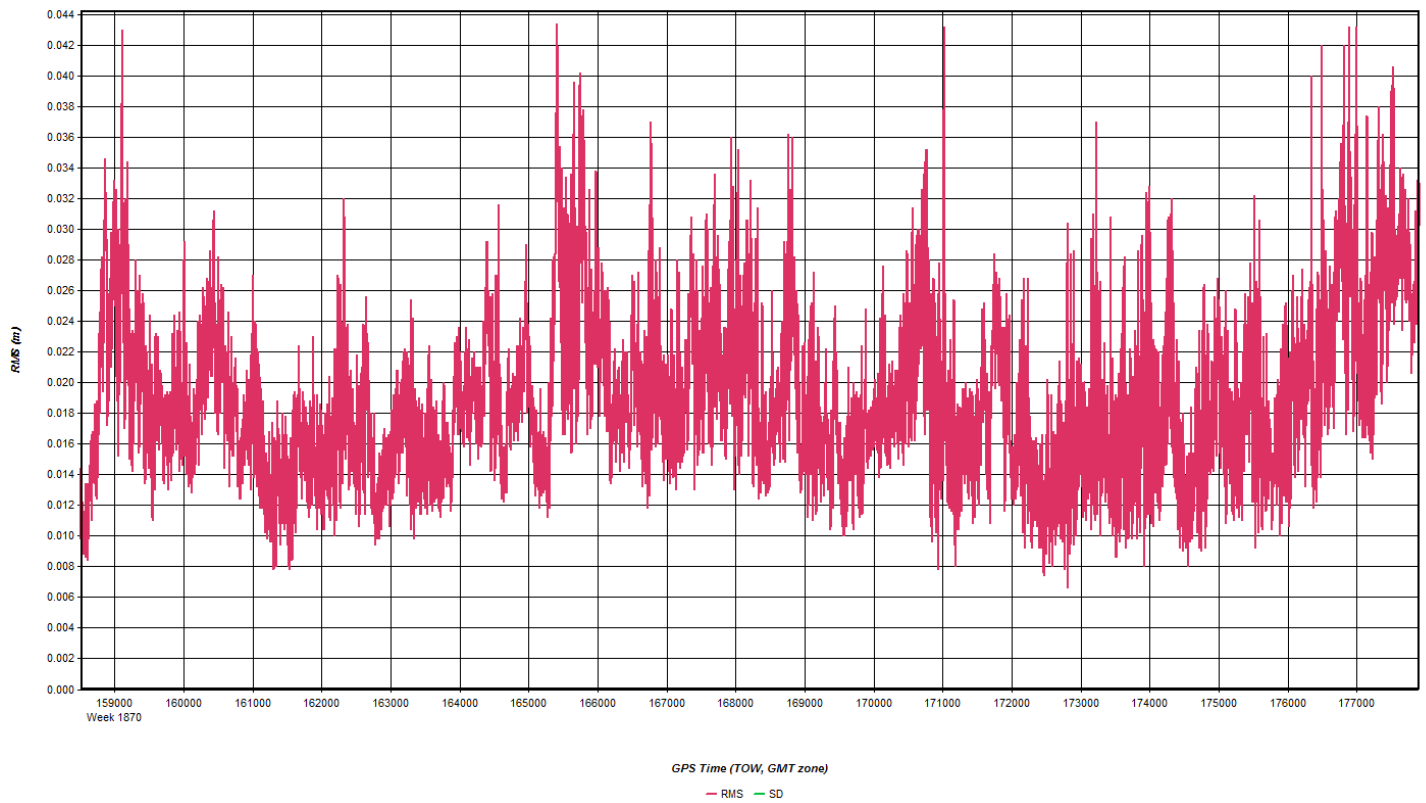


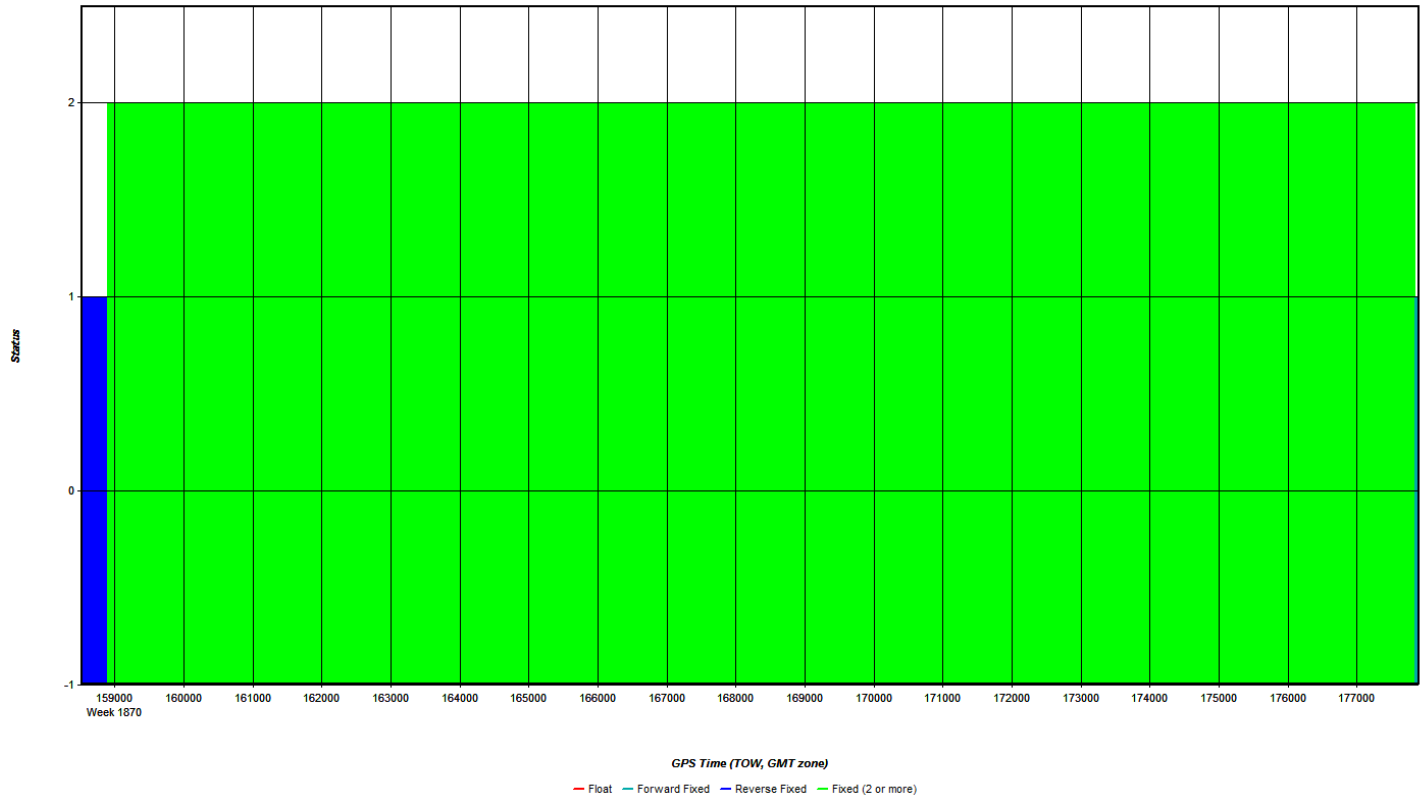
GPS Time (TOW, GMT zone)

— Heading/Azimuth — GPS-COG









Coordinate/Antenna Settings

Master Remote

Base Station
 2: AA01 Name: AA01 Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\29CL\26818_USG;

Coordinates
 Latitude: North 43 40 21.87219 Compute from PPP
 Longitude: West 71 29 10.54110 Enter Grid Values
 Ellipsoidal height: 221.099 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

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

Master Remote

Base Station
 3: AA01_1 Name: AA01_1 Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\29CL\26818_USG;

Coordinates
 Latitude: North 43 40 21.87219 Compute from PPP
 Longitude: West 71 29 10.54110 Enter Grid Values
 Ellipsoidal height: 221.099 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

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

Master Remote

Base Station
 1: NHCO Name: NHCO Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\29CL\26818_USG;

Coordinates
 Latitude: North 43 12 46.19587 Compute from PPP
 Longitude: West 71 31 11.47551 Enter Grid Values
 Ellipsoidal height: 89.430 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

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

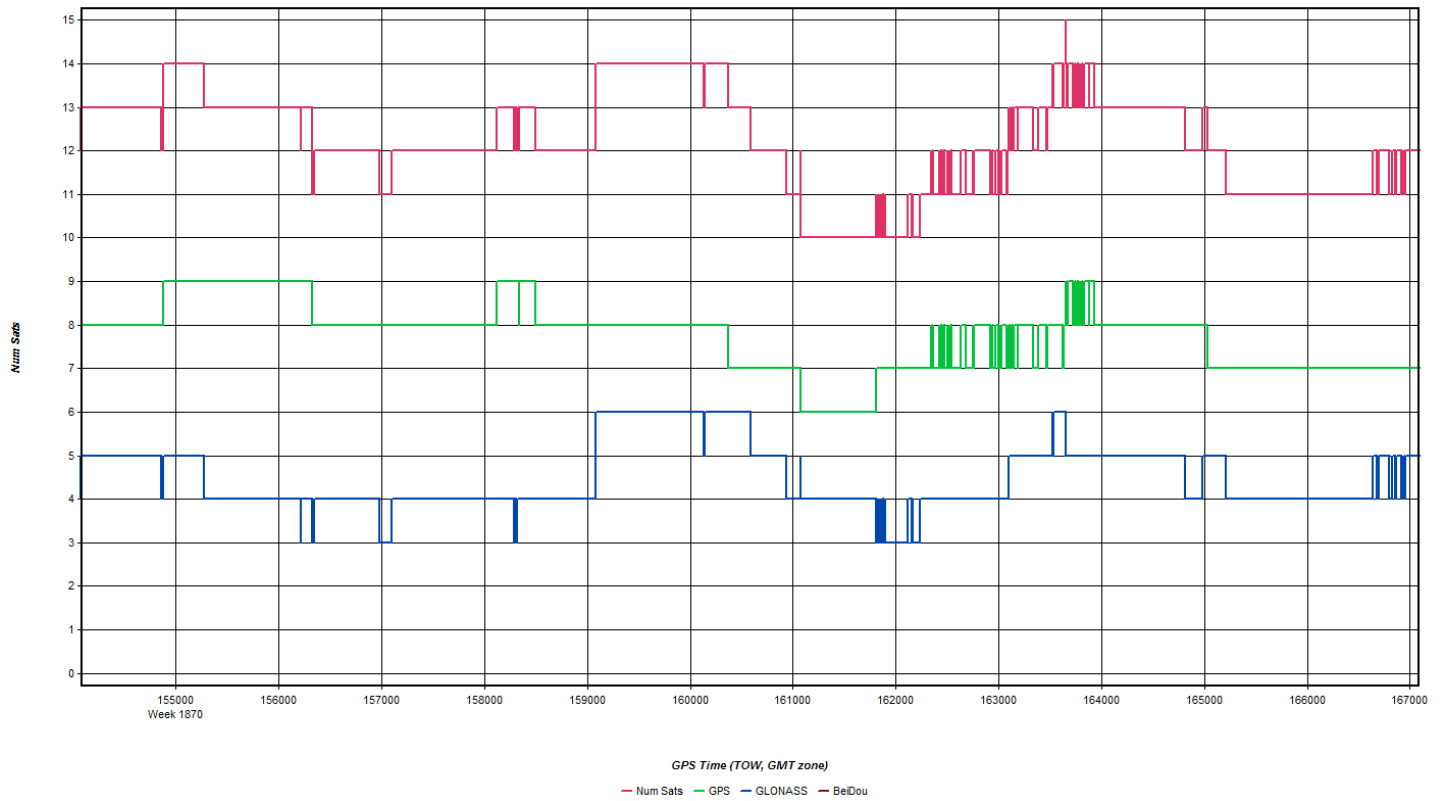
OK Cancel

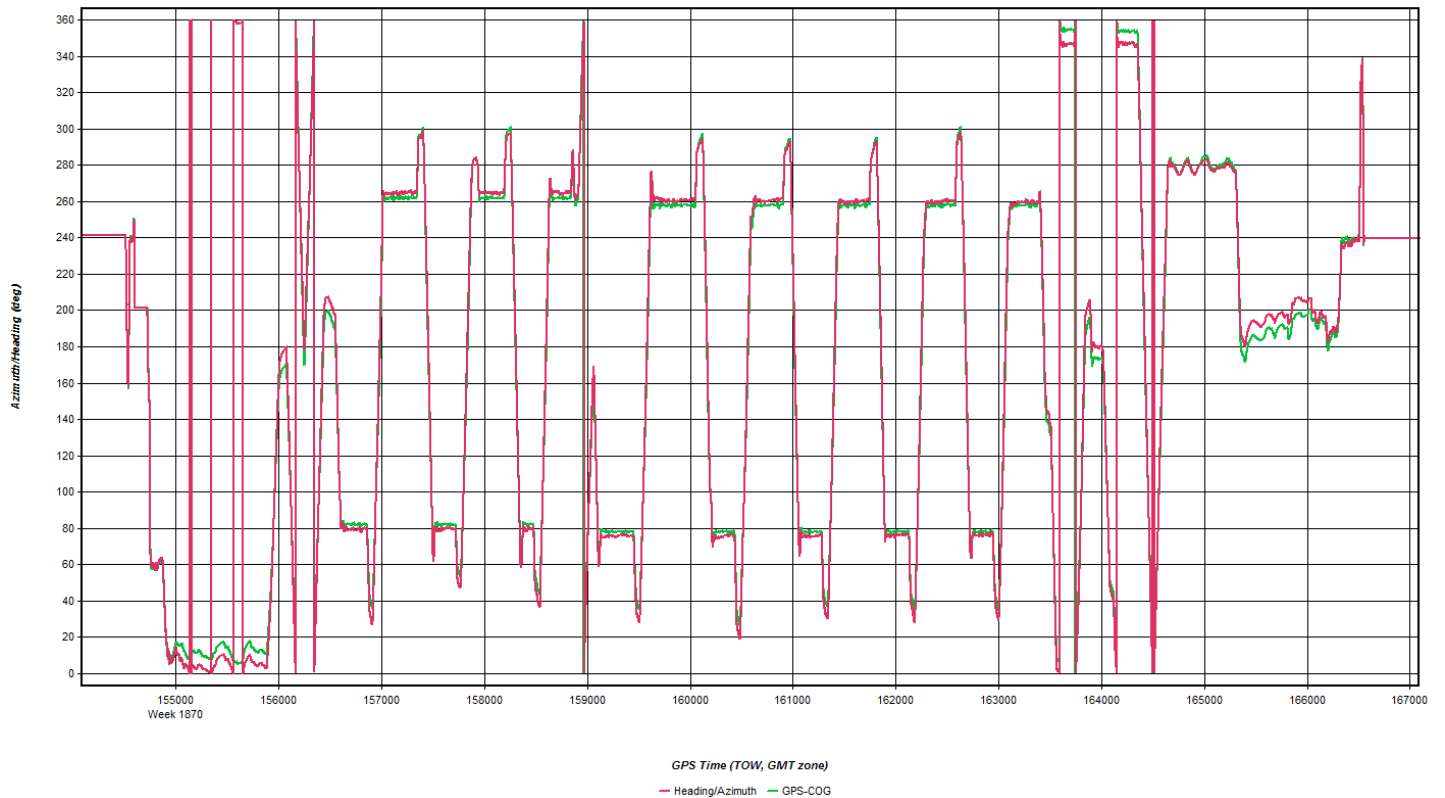
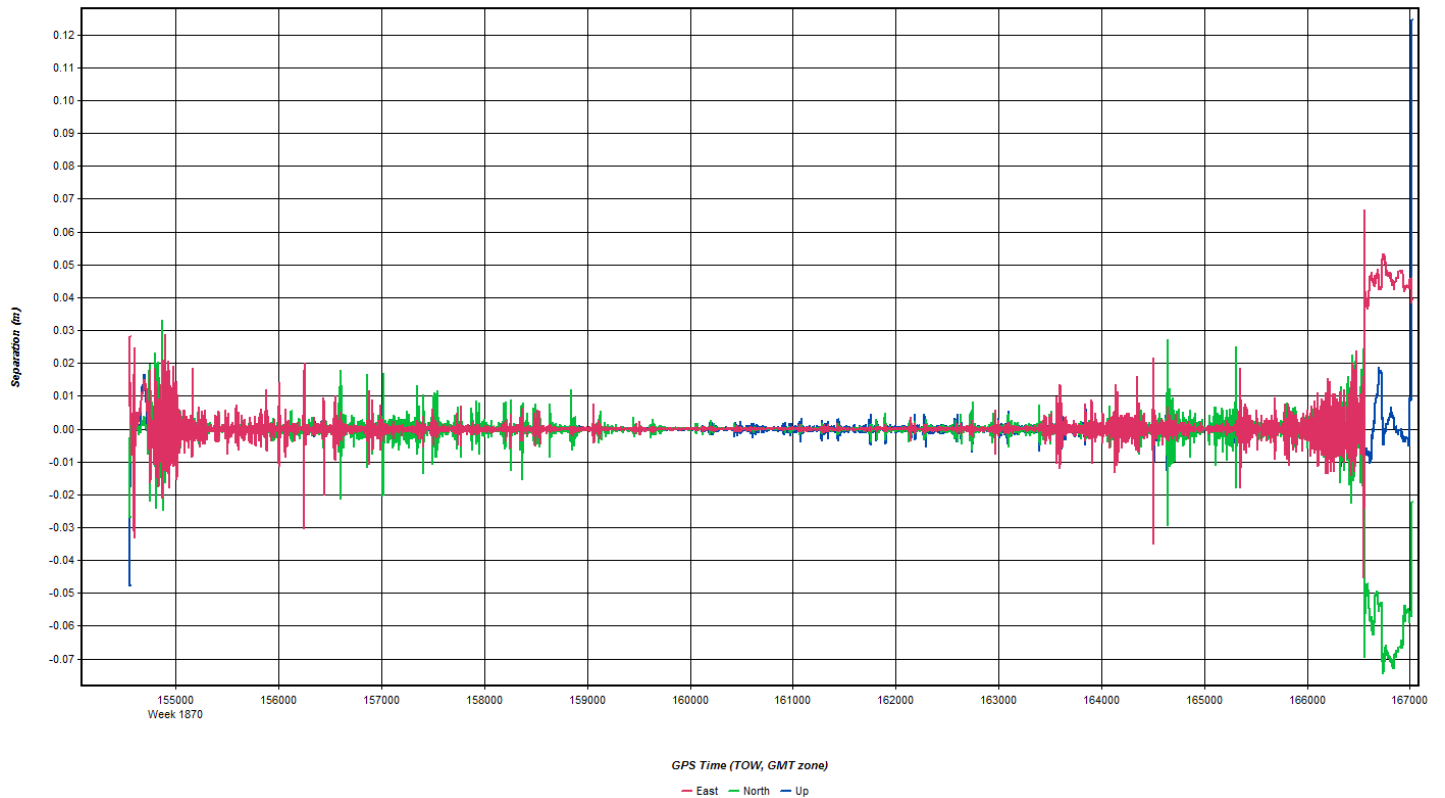
Flight Log

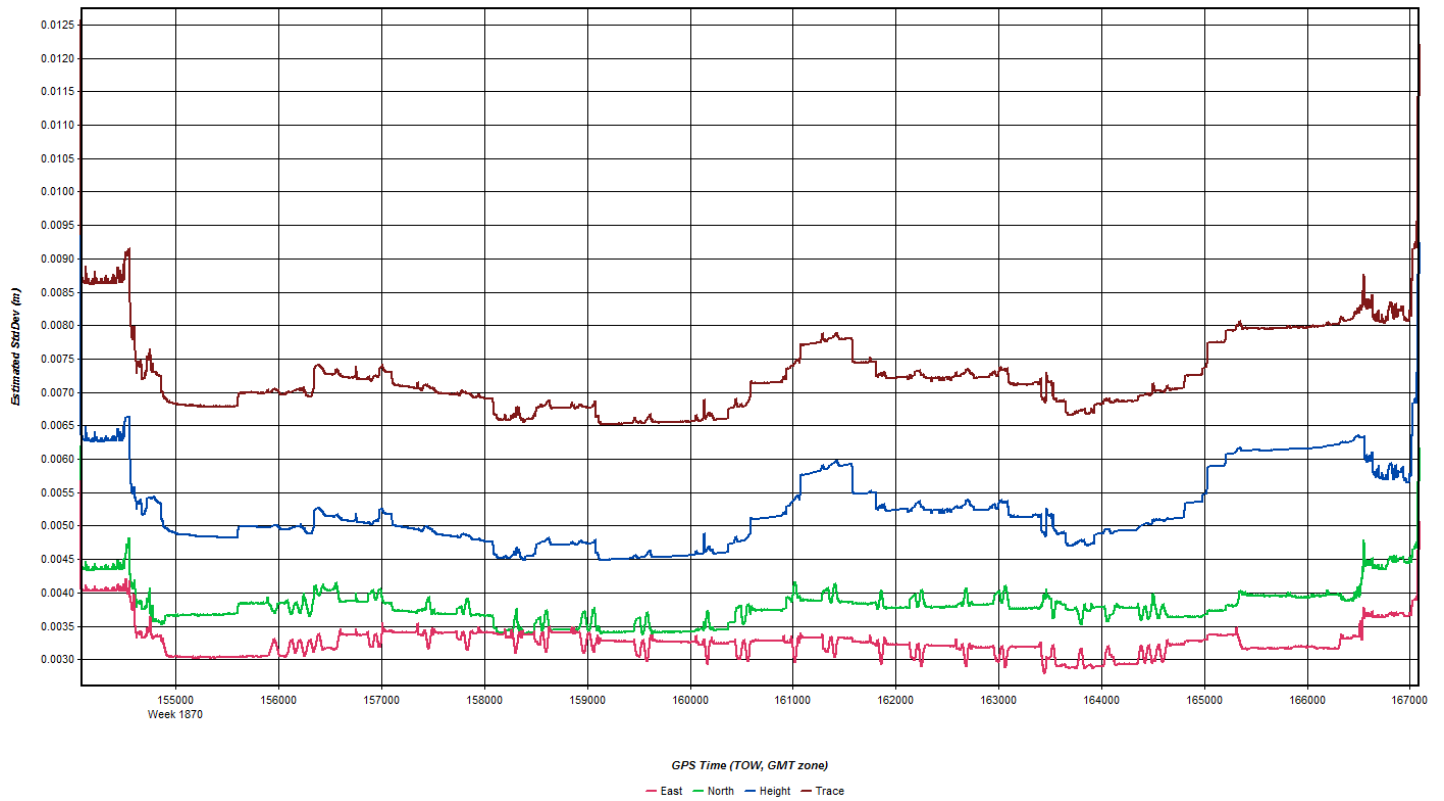
MISSION: 20151109-195755		OPERATOR: JACOBSON		DATE: 11-9-15		LEICA ALS-70 7161		AIRCRAFT: N6GR		REMARKS		
PROJECT NUMBER AND NAME	LINE No.	Lbl	Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (M/F)	TIME		REMARKS
										START	STOP	
26818										2006	2015	LCT → SITE
Winnepesaukee									(FEET)	2016		CORSID: AA01 43 40 21.87 71 29 10.54 FIG 8
	70	5070	143	-160	53	40	263	12/3	7100	2027	2042	15
	69	5069	323						7182	2045	2102	
	68	5068	143						7211	2105	2120	
	67	5067	323						7211	2124	2140	
	66	5066	143						7211	2143	2158	
	65	5065	323						7211	2202	2218	
	64	5064	143						7211	2221	2237	
	63	5063	323						7208	2241	2257	
	62	5062	143						7208	2300	2314	
	61	5061	323	-160	53	40	263	12/3	7211	2317	2331	15
	60	5060	143						7211	2334	2348	
	59	5059	323						7215	2351	0005	
	58	5058	143						7781	0008	0018	
	57	5057	323						7181	0021	0031	
	56	5056	143						7165	0034	0044	
STATUS	TOTAL LINES	FLOWN	LEFT	AIRCRAFT		STATIC	START	STOP	NOTES: BASE STATION @ LCT			
Winnepesaukee	91 / 101	SEE LOG-2										
						WX						LOG 1 / Lift 1

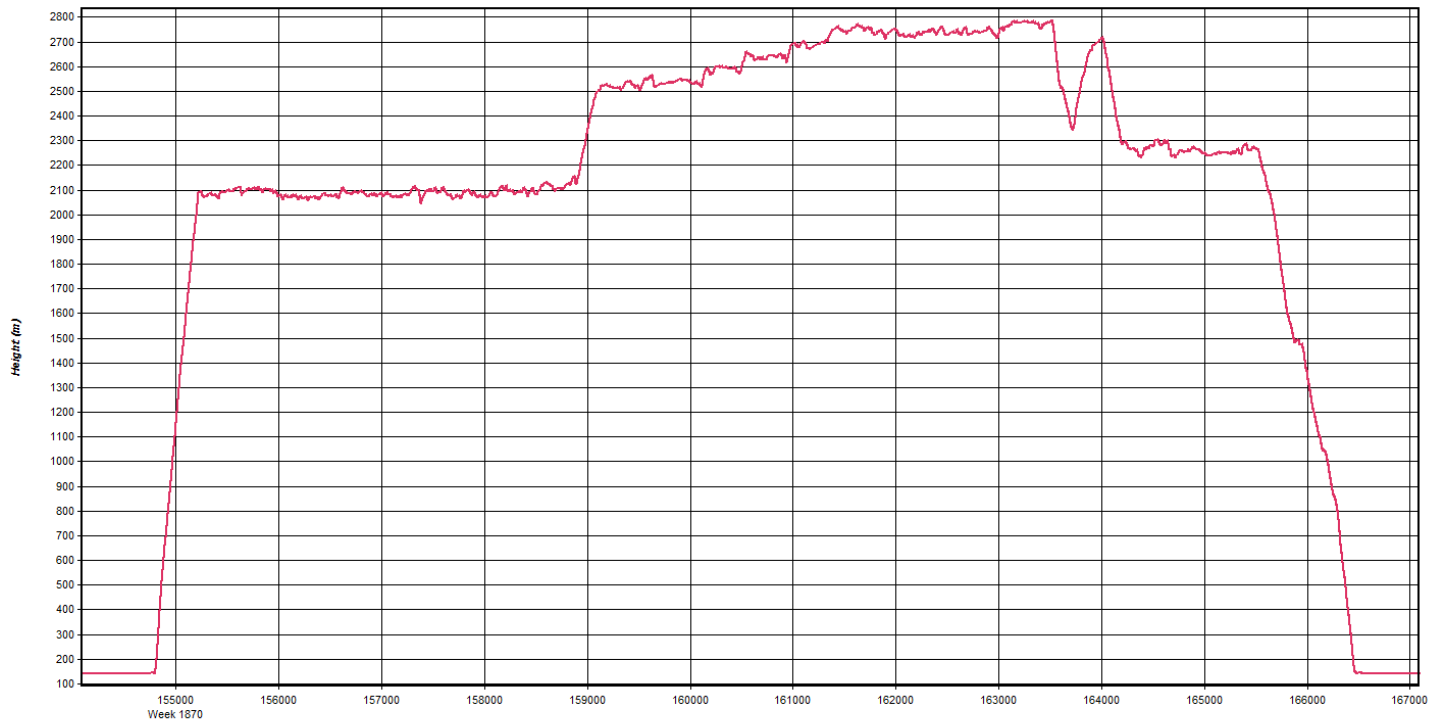
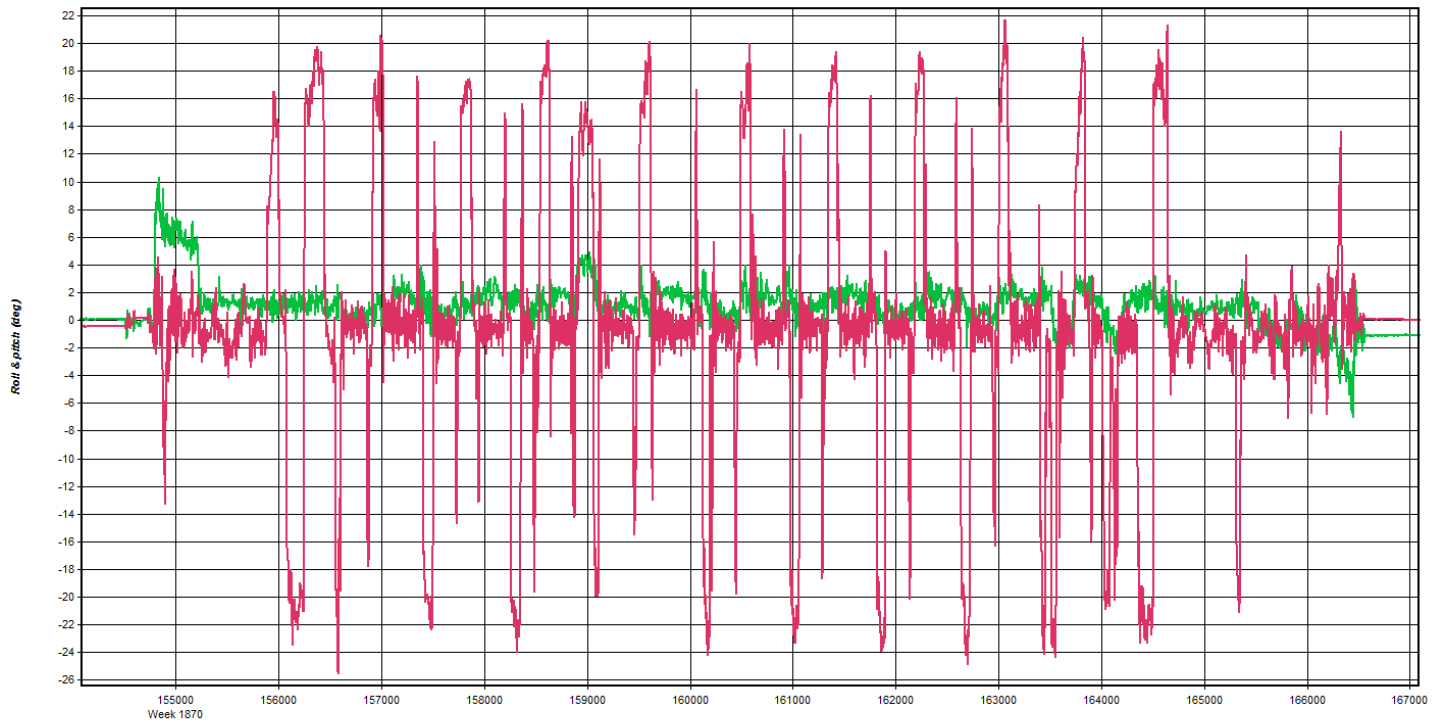
AERO-METRIC, INC. N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 FAX: 888-253-6695 E-Mail: amphoto@aerometric.com

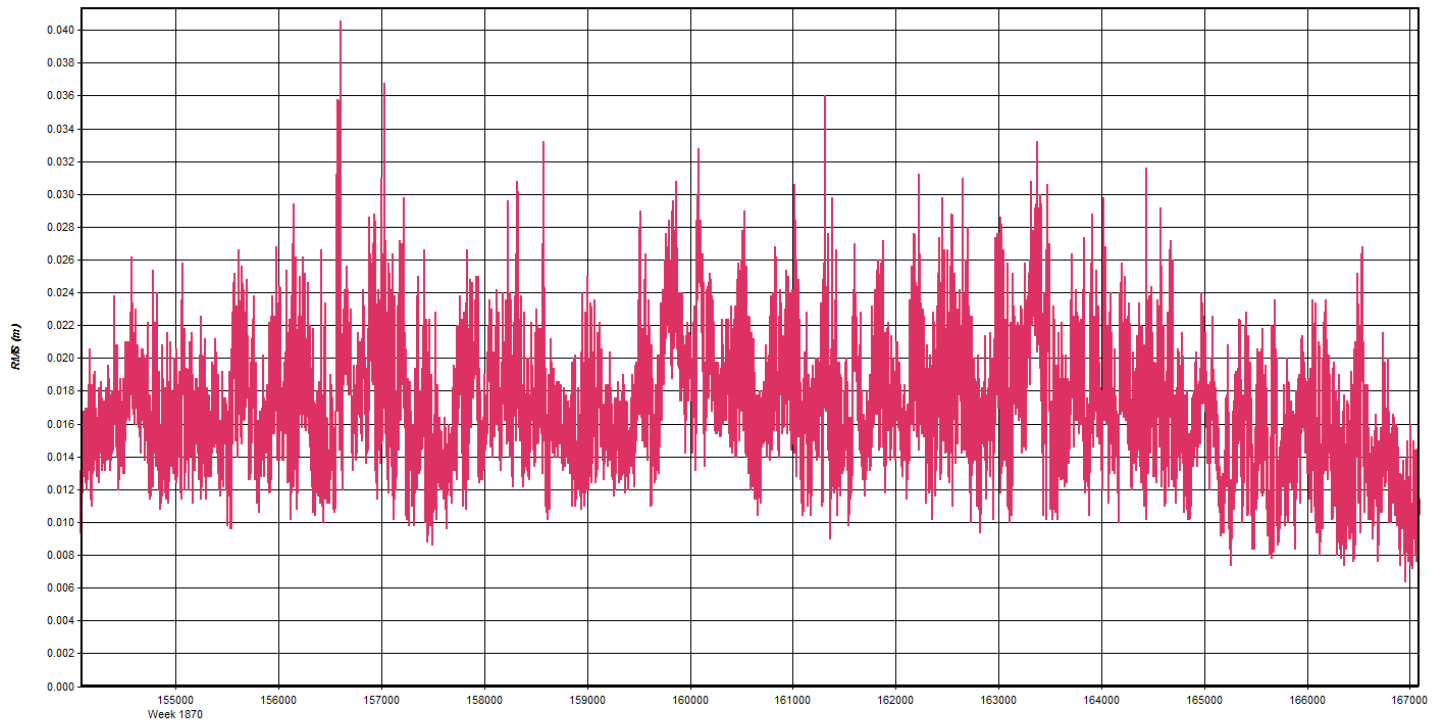
Nov 09, 2015-B (N22GE, SN7178)





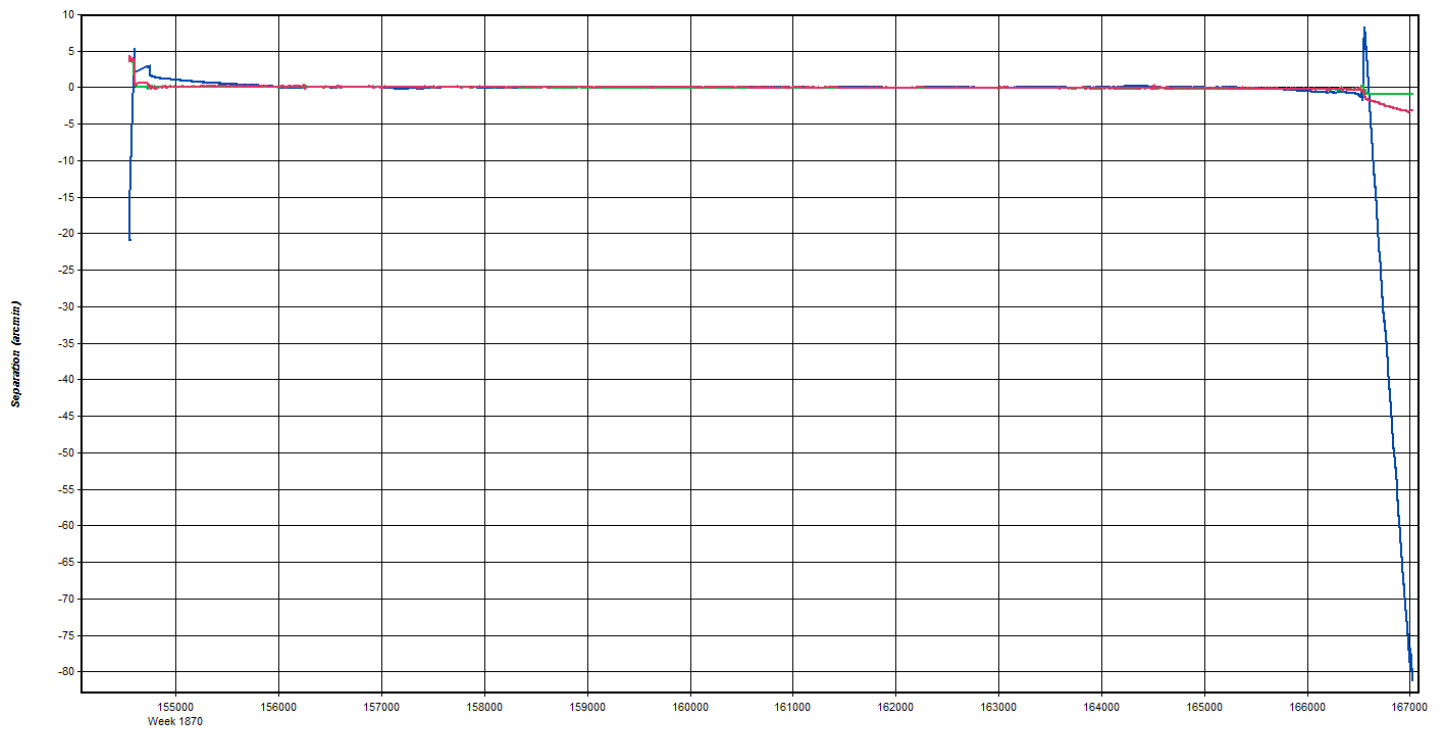






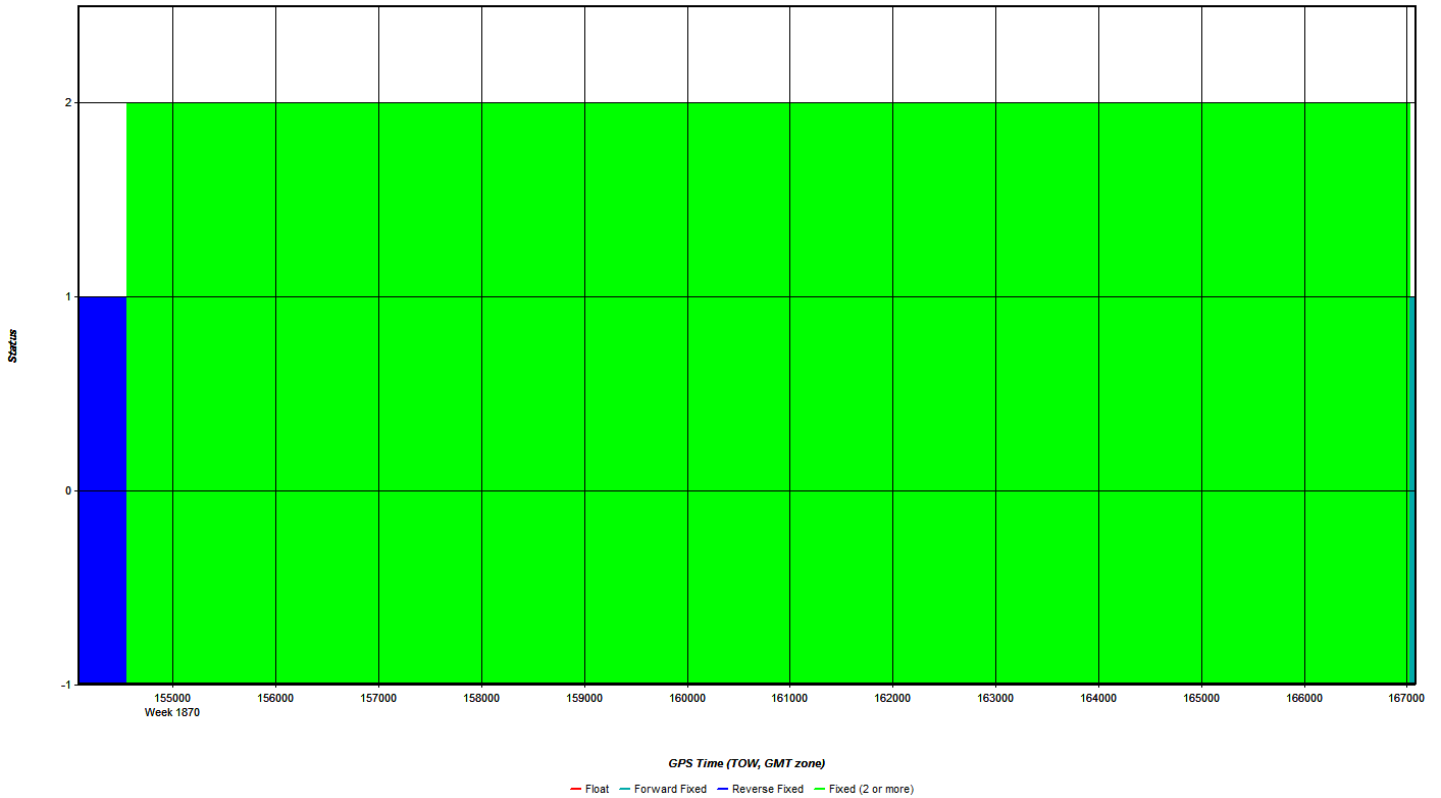
GPS Time (TOW, GMT zone)

— RMS — SD



GPS Time (TOW, GMT zone)

— Roll — Pitch — Heading/Az



Coordinate/Antenna Settings

Master Remote

Base Station
 2: VTOX Name: VTOX Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\RAW_Data\SK9Y\

Coordinates
 Latitude: North 44 00 28.16564 Compute from PPP
 Longitude: West 72 06 51.60957 Enter Grid Values
 Ellipsoidal height: 126.405 m Enter MSL Height
 Datum: NAD83(2011) 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: VTD7 Name: VTD7 Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\RAW_Data\SK9Y\

Coordinates
 Latitude: North 44 23 52.31066 Compute from PPP
 Longitude: West 72 01 32.39267 Enter Grid Values
 Ellipsoidal height: 166.528 m Enter MSL Height
 Datum: NAD83(2011) 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

OPERATORS FLIGHT LOG														
DATE: 11/9/15														
LEICA ALS70														
SENSOR: 718														
AIRCRAFT: Z Z G B														
REMARKS														
M770 DRIVE														
TIME														
START STOP														
FIXED GAIN														
PRF KHZ														
SCAN ANGLE														
FREQ HZ														
GND SPEED (KTS)														
LINE														
L1 L2														
Hdg														
No.														
MISSION: 20151109-1813A														
PILOT: Ted Radtke														
PROJECT NUMBER: 20818														
OPERATOR: Peter Telesnick														
LINE No.	L1	L2	Hdg	GND SPEED (KTS)	FREQ HZ	SCAN ANGLE	PRF KHZ	FIXED GAIN	FLYING Ht (m)	START TIME	STOP TIME	REMARKS		
0555 CT RIVER	700	800	082	146	51	34	304	255	6845	19308	19326	NIKE HEATHIER		
	707	801	262	140					6830	19322	19325	24 Kts		
	708	802	085	169					6825	19324	19327			
	709	803	262	140					6872	19328	19330			
	710	804	085	163					6853	19326	20009			
	711	805	141	140					6712	20052	20069			
	672	806	074	173	50	28	273	255	8243	20123	20170			
	673	806	258	137					8274	20212	20240			
	674	807	074	171					8531	20238	20239			
	675	807	257	192					8644	20239	204132			
	676	808	082	170					8805	204153	20420			
	677	808	258	170					8813	20524	20567			
	678	809	080	167					9018	20570	21015			
	679	809	256	143					8657	21062	210917			
	680	810	128	170					8990	21275	21576			
	681	810	258	137					9121	21479	21525			
	682	812	082	170					9211	21527	21727			
	683	812	258	170					8816	21320	21329			
	684	812	082	170					7307	21266	21272			
	685	812	257	164					7307	21266	21272			
	686	812	082	164					7307	21266	21272			
	687	812	257	164					7307	21266	21272			
	688	812	082	164					7307	21266	21272			
	689	812	257	164					7307	21266	21272			
	690	812	082	164					7307	21266	21272			
	691	812	257	164					7307	21266	21272			
	692	812	082	164					7307	21266	21272			
	693	812	257	164					7307	21266	21272			
	694	812	082	164					7307	21266	21272			
	695	812	257	164					7307	21266	21272			
	696	812	082	164					7307	21266	21272			
	697	812	257	164					7307	21266	21272			
	698	812	082	164					7307	21266	21272			
	699	812	257	164					7307	21266	21272			
	700	812	082	164					7307	21266	21272			
	701	812	257	164					7307	21266	21272			
	702	812	082	164					7307	21266	21272			
	703	812	257	164					7307	21266	21272			
	704	812	082	164					7307	21266	21272			
	705	812	257	164					7307	21266	21272			
	706	812	082	164					7307	21266	21272			
	707	812	257	164					7307	21266	21272			
	708	812	082	164					7307	21266	21272			
	709	812	257	164					7307	21266	21272			
	710	812	082	164					7307	21266	21272			
	711	812	257	164					7307	21266	21272			
	712	812	082	164					7307	21266	21272			
	713	812	257	164					7307	21266	21272			
	714	812	082	164					7307	21266	21272			
	715	812	257	164					7307	21266	21272			
	716	812	082	164					7307	21266	21272			
	717	812	257	164					7307	21266	21272			
	718	812	082	164					7307	21266	21272			
	719	812	257	164					7307	21266	21272			
	720	812	082	164					7307	21266	21272			
	721	812	257	164					7307	21266	21272			
	722	812	082	164					7307	21266	21272			
	723	812	257	164					7307	21266	21272			
	724	812	082	164					7307	21266	21272			
	725	812	257	164					7307	21266	21272			
	726	812	082	164					7307	21266	21272			
	727	812	257	164					7307	21266	21272			
	728	812	082	164					7307	21266	21272			
	729	812	257	164					7307	21266	21272			
	730	812	082	164					7307	21266	21272			
	731	812	257	164					7307	21266	21272			
	732	812	082	164					7307	21266	21272			
	733	812	257	164					7307	21266	21272			
	734	812	082	164					7307	21266	21272			
	735	812	257	164					7307	21266	21272			
	736	812	082	164					7307	21266	21272			
	737	812	257	164					7307	21266	21272			
	738	812	082	164					7307	21266	21272			
	739	812	257	164					7307	21266	21272			
	740	812	082	164					7307	21266	21272			
	741	812	257	164					7307	21266	21272			
	742	812	082	164					7307	21266	21272			
	743	812	257	164					7307	21266	21272			
	744	812	082	164					7307	21266	21272			
	745	812	257	164					7307	21266	21272			
	746	812	082	164					7307	21266	21272			
	747	812	257	164					7307	21266	21272			
	748	812	082	164					7307	21266	21272			
	749	812	257	164					7307	21266	21272			
	750	812	082	164					7307	21266	21272			
	751	812	257	164					7307	21266	21272			
	752	812	082	164					7307	21266	21272			
	753	812	257	164					7307	21266	21272			
	754	812	082	164					7307	21266	21272			
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	760	812	082	164					7307	21266	21272			
	761	812	257	164					7307	21266	21272			
	762	812	082	164					7307	21266	21272			
	763	812	257	164					7307	21266	21272			
	764	812	082	164										

Base Station Log

GPS OBSERVATION LOG

Station ID _____	Date <u>11 / 19 / 15</u>
Project Number <u>26818</u>	Julian Date <u>314</u>
Project Name <u>USGS CT. RIVER</u>	Start Time <u>: 12:53: pm</u>
Revr. Type <u>NovAtel DL-V3-L11.2</u>	Stop Time <u>: 5:30: pm</u>
Revr. S/N <u>7-0141418</u>	Revr. File Name <u>00082130.PDC</u>
Antenna Type <u>NovAtel</u>	Observer <u>Peter Tschanner</u>
Antenna S/N <u>NAE12110035</u>	

New or Existing Mon. New Existing
 Photo Taken: Yes No
 Monument Type: _____
 Spike PK Nail AM Washer
 Other _____

Height Readings:
(Top of Monument to Bottom of Ground Plane)

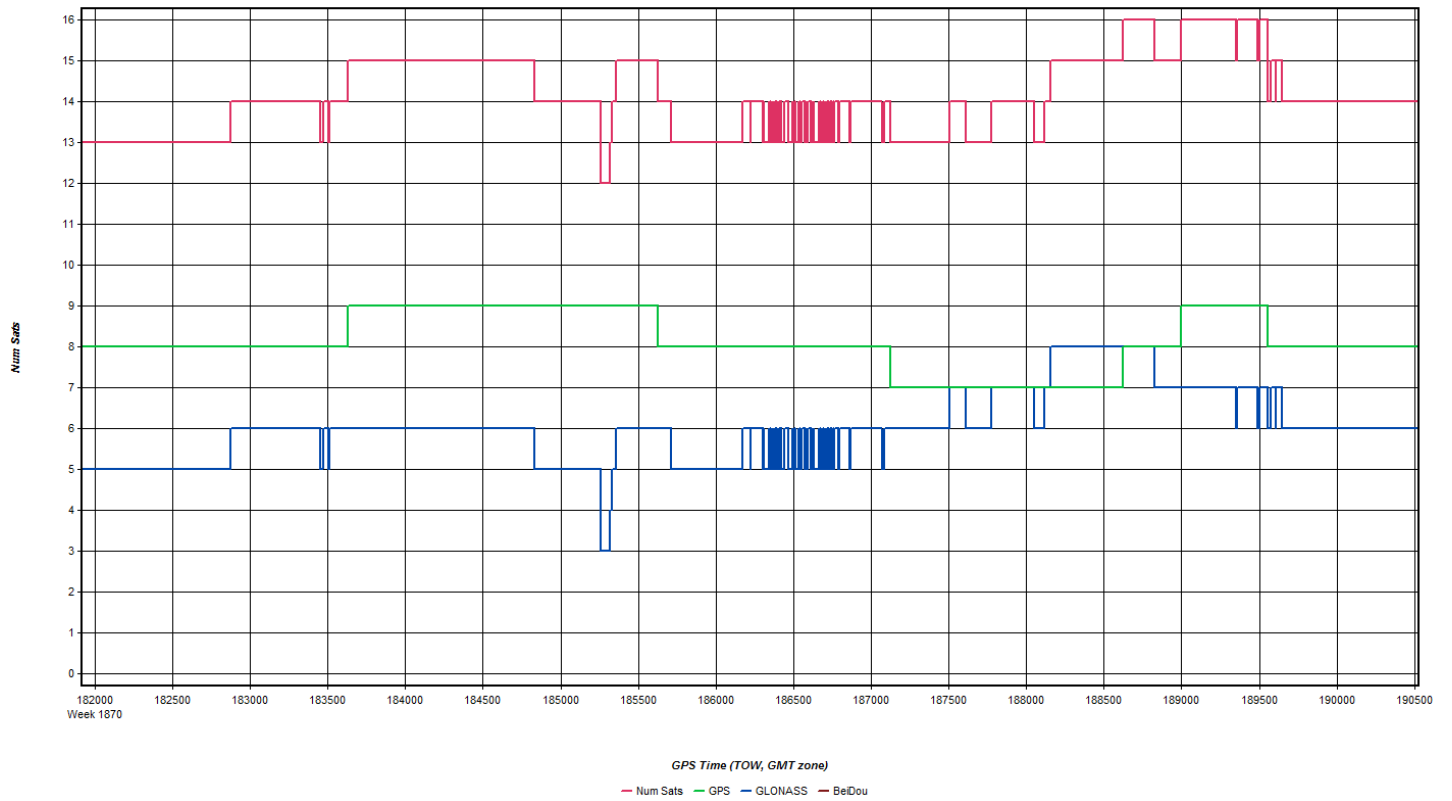
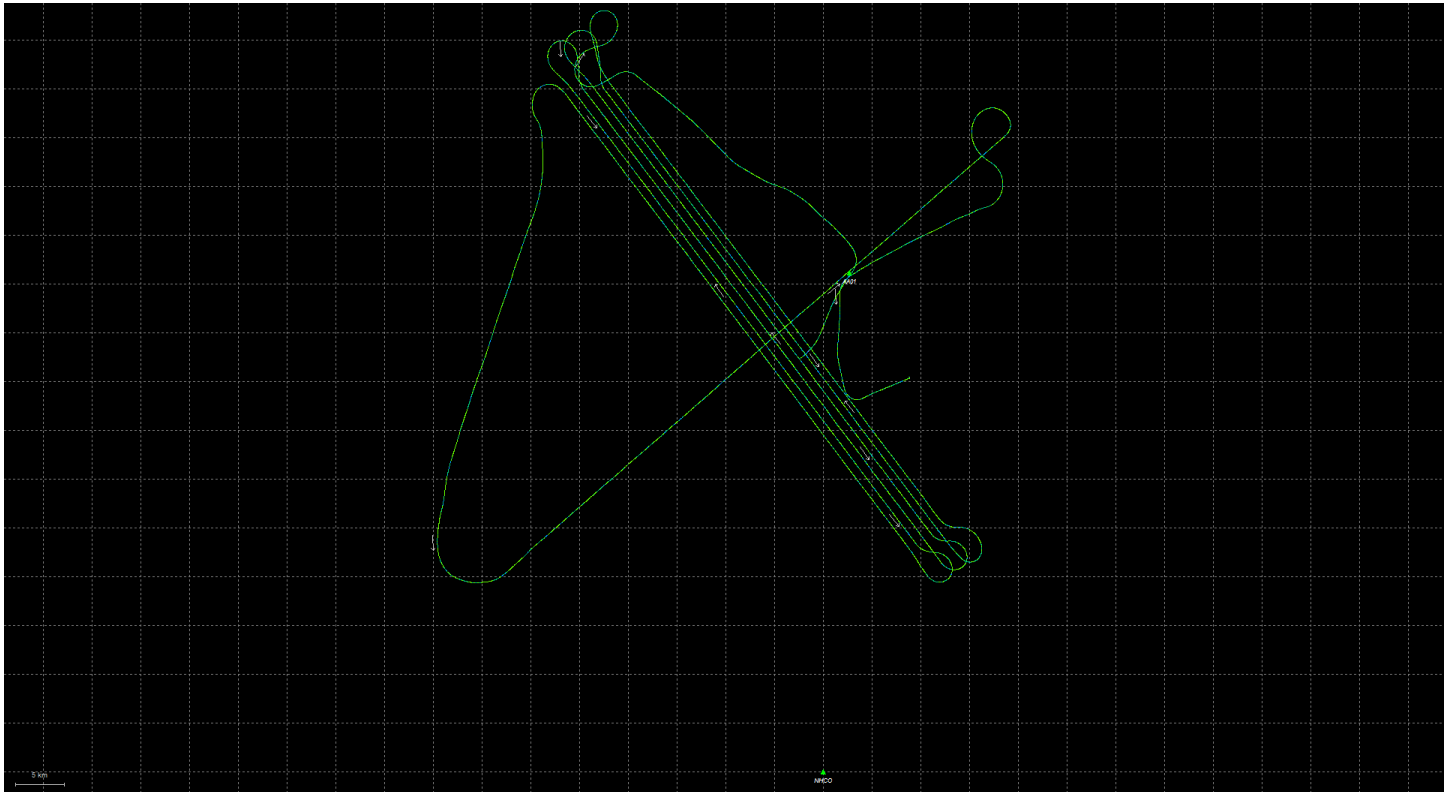
Start	<u>2</u> M.	<u>3.2</u> Ft.
Stop	<u>2</u> M.	<u>3.2</u> Ft.
Mean	<u>2</u> M.	<u>3.2</u> Ft.

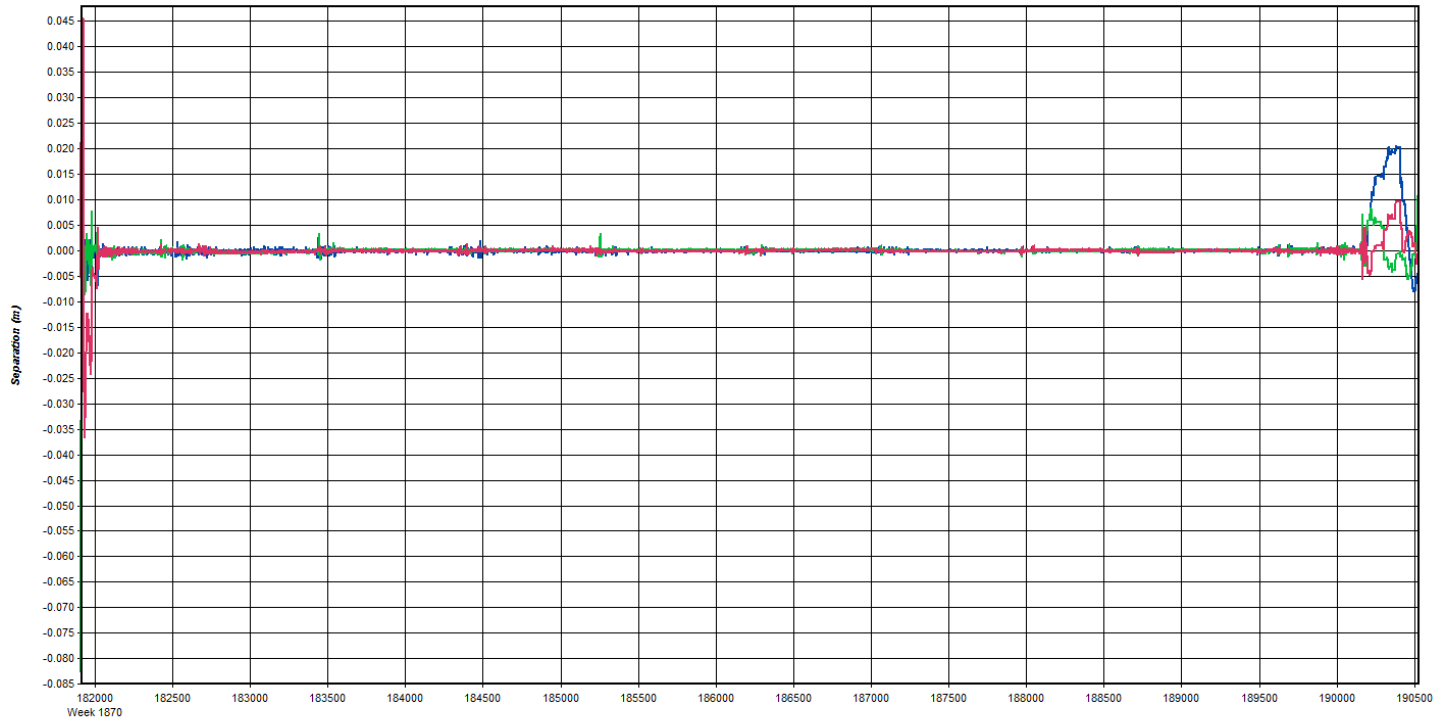
Monument Sketch and Notes: KLEB

N

Scanned by CamScanner

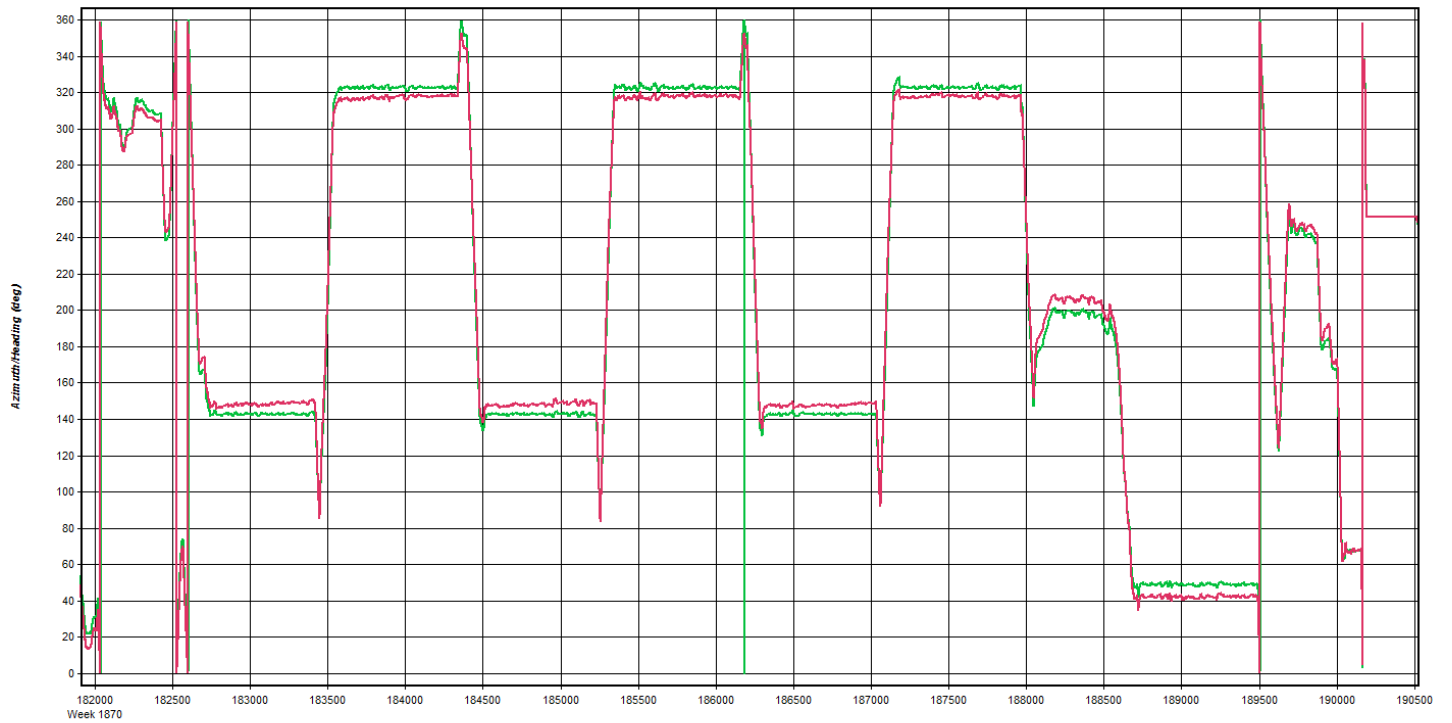
Nov 09, 2015-C (N6GR, SN7161)





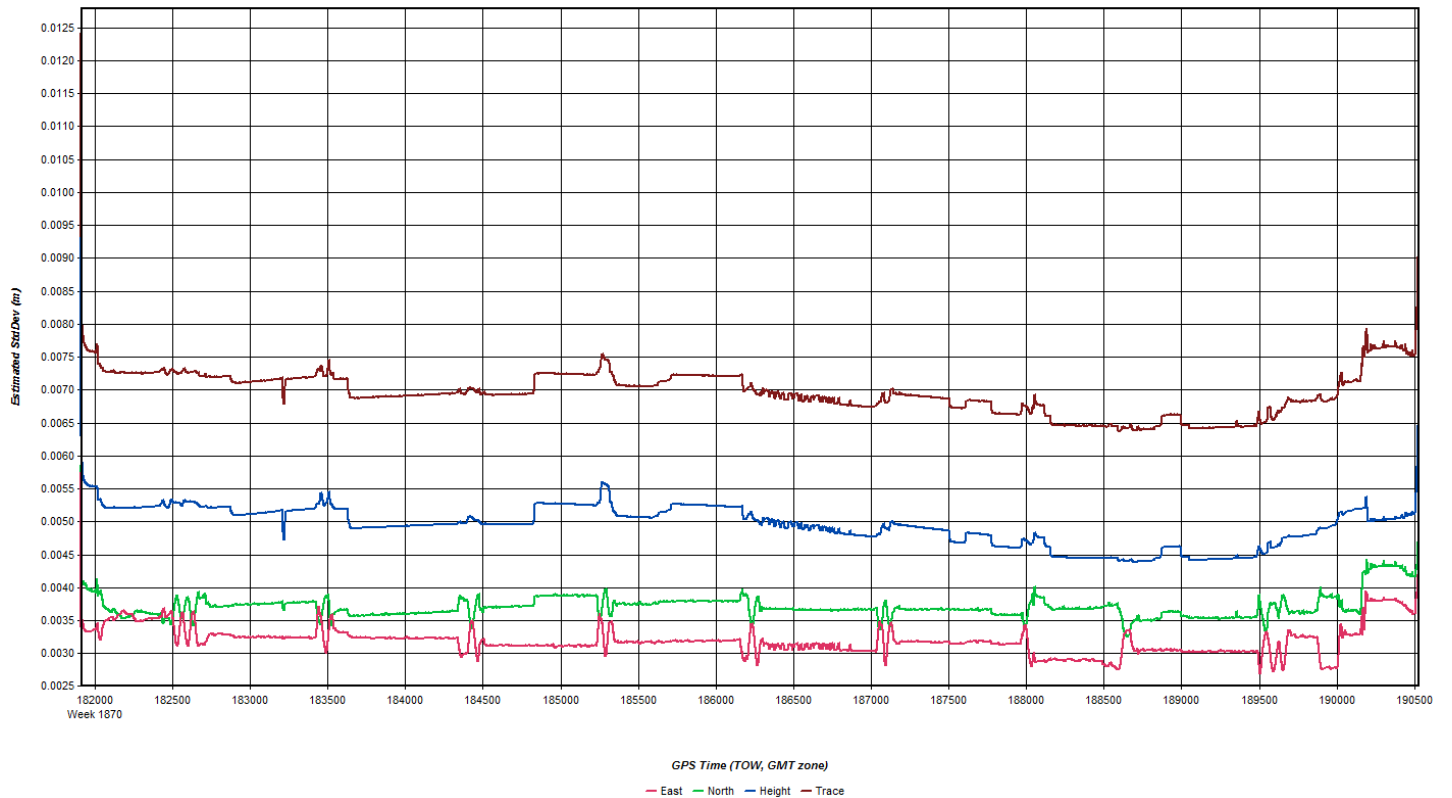
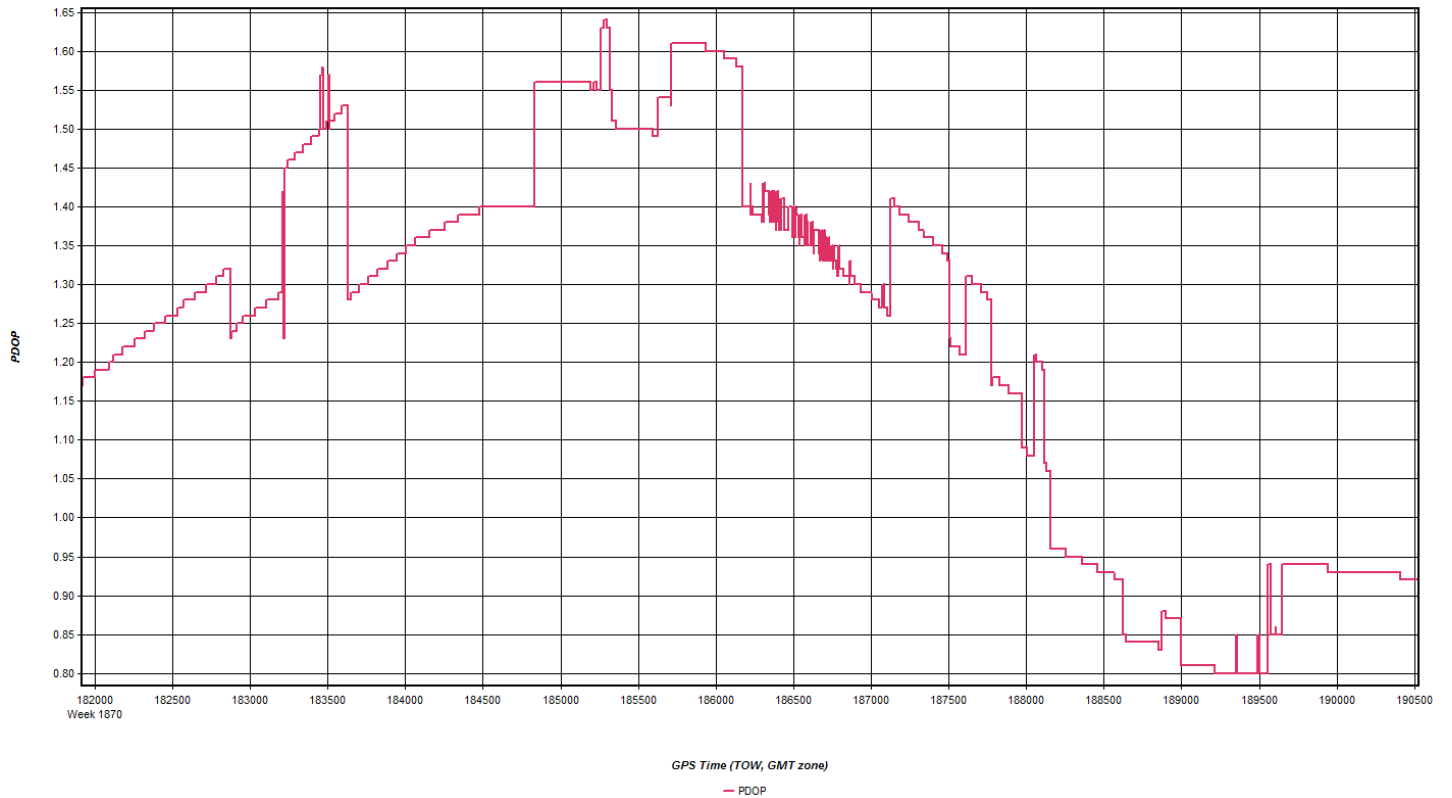
GPS Time (TOW, GMT zone)

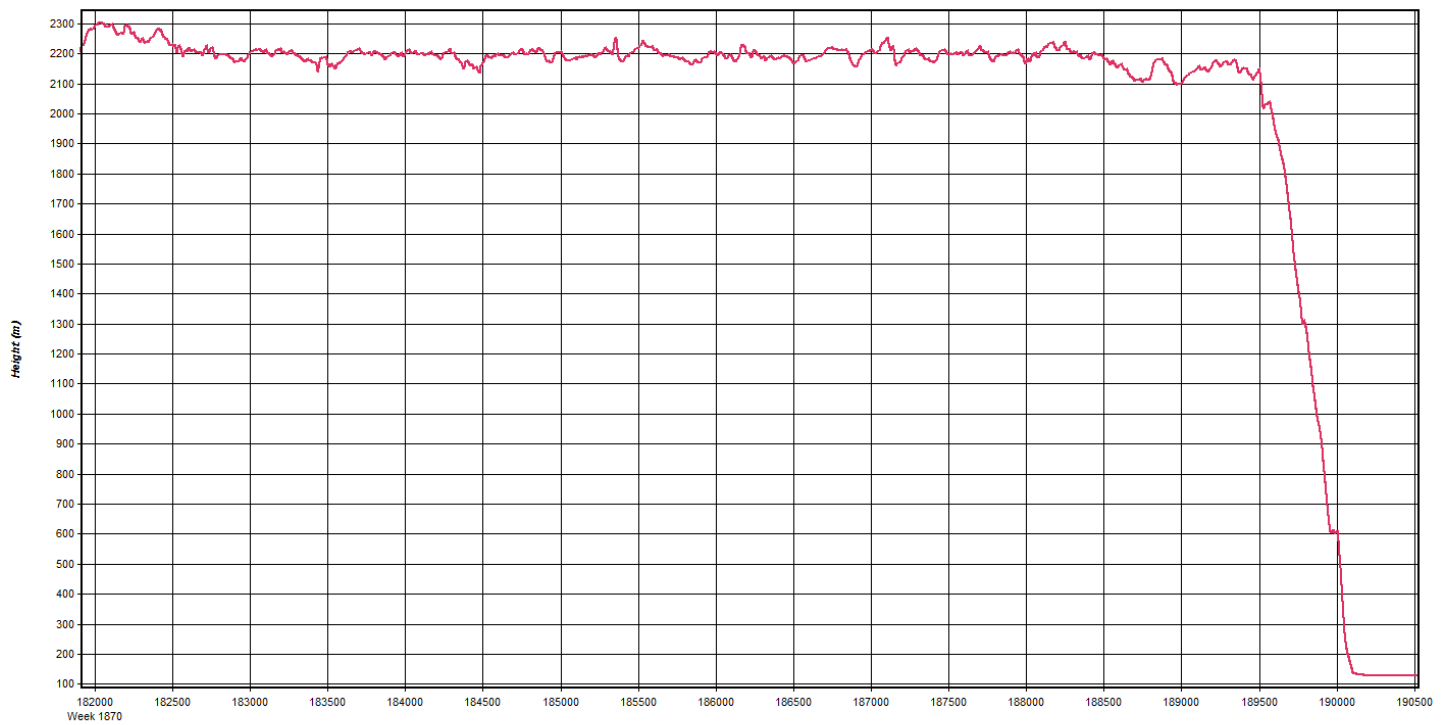
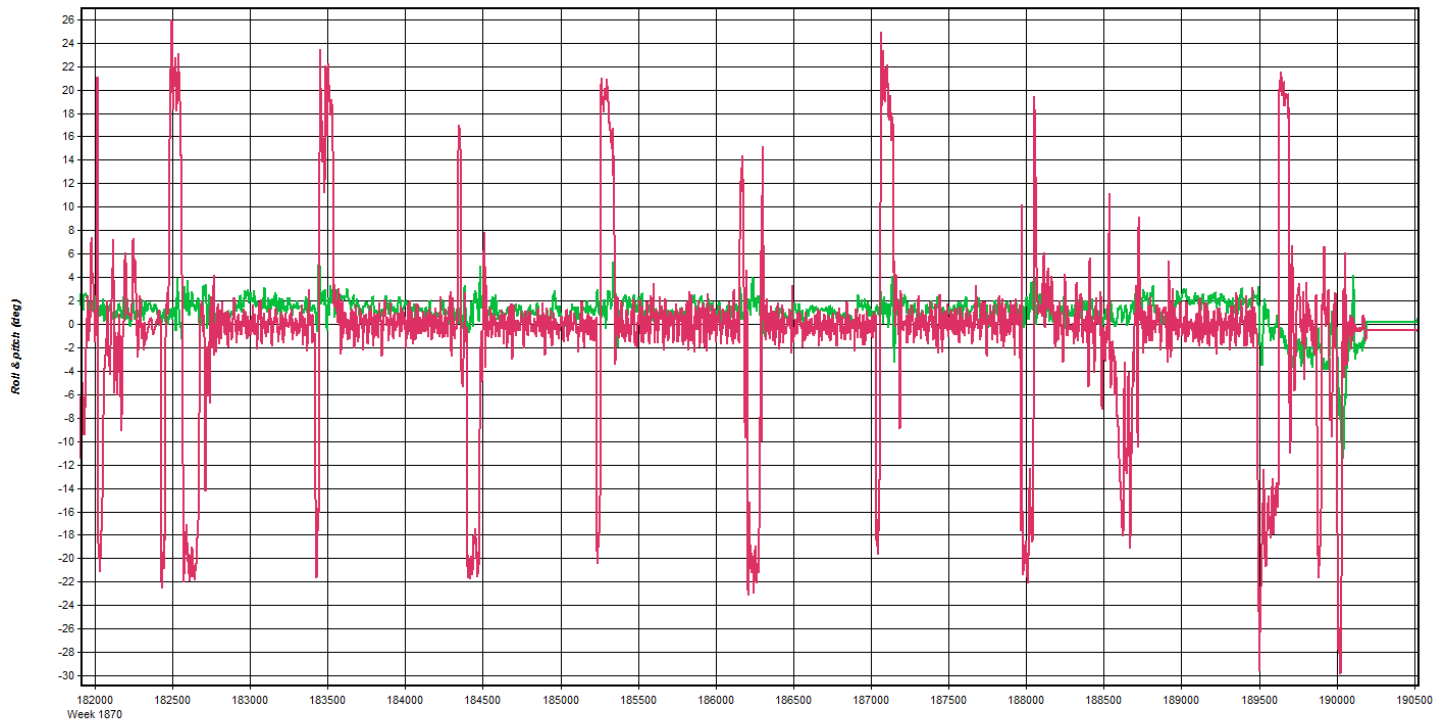
— East — North — Up

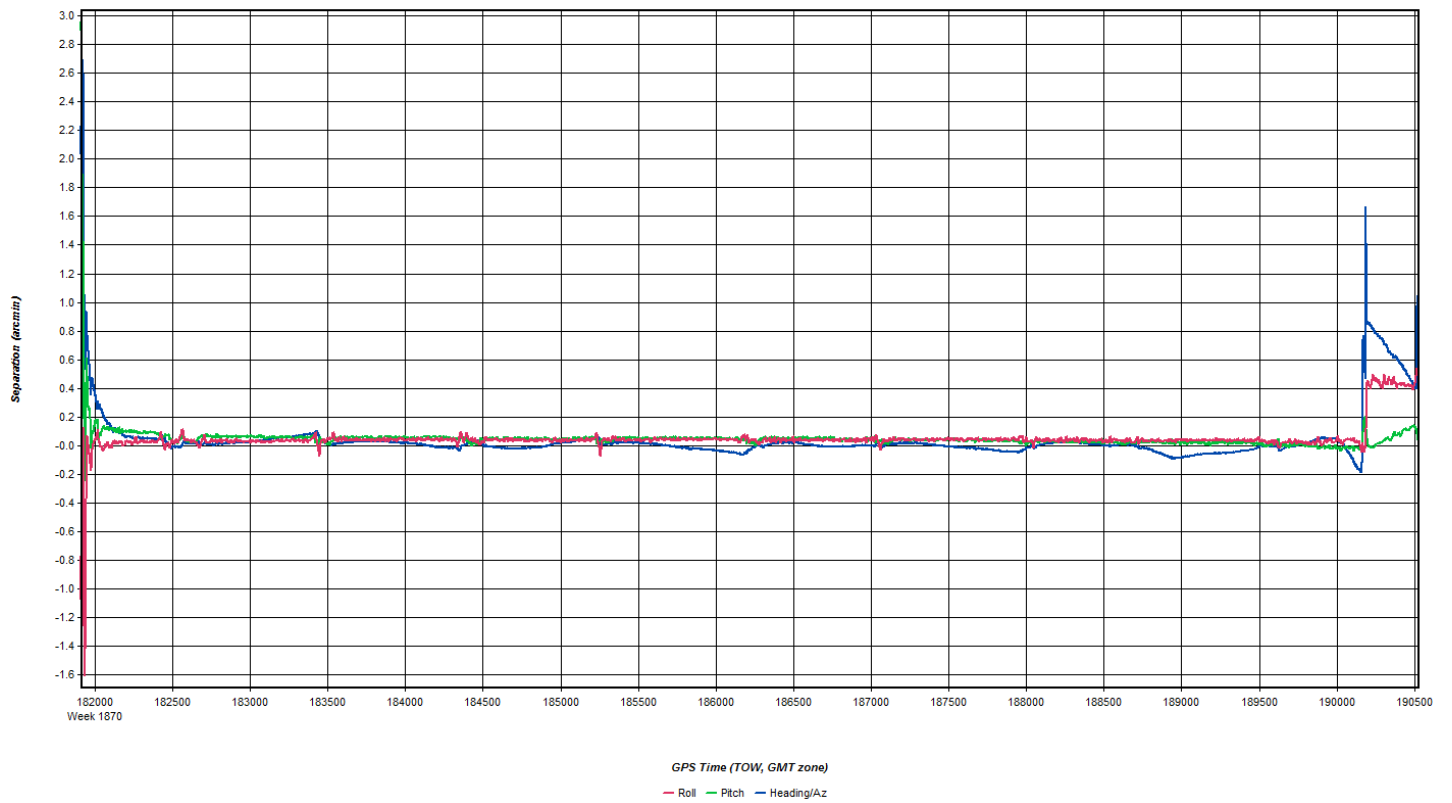
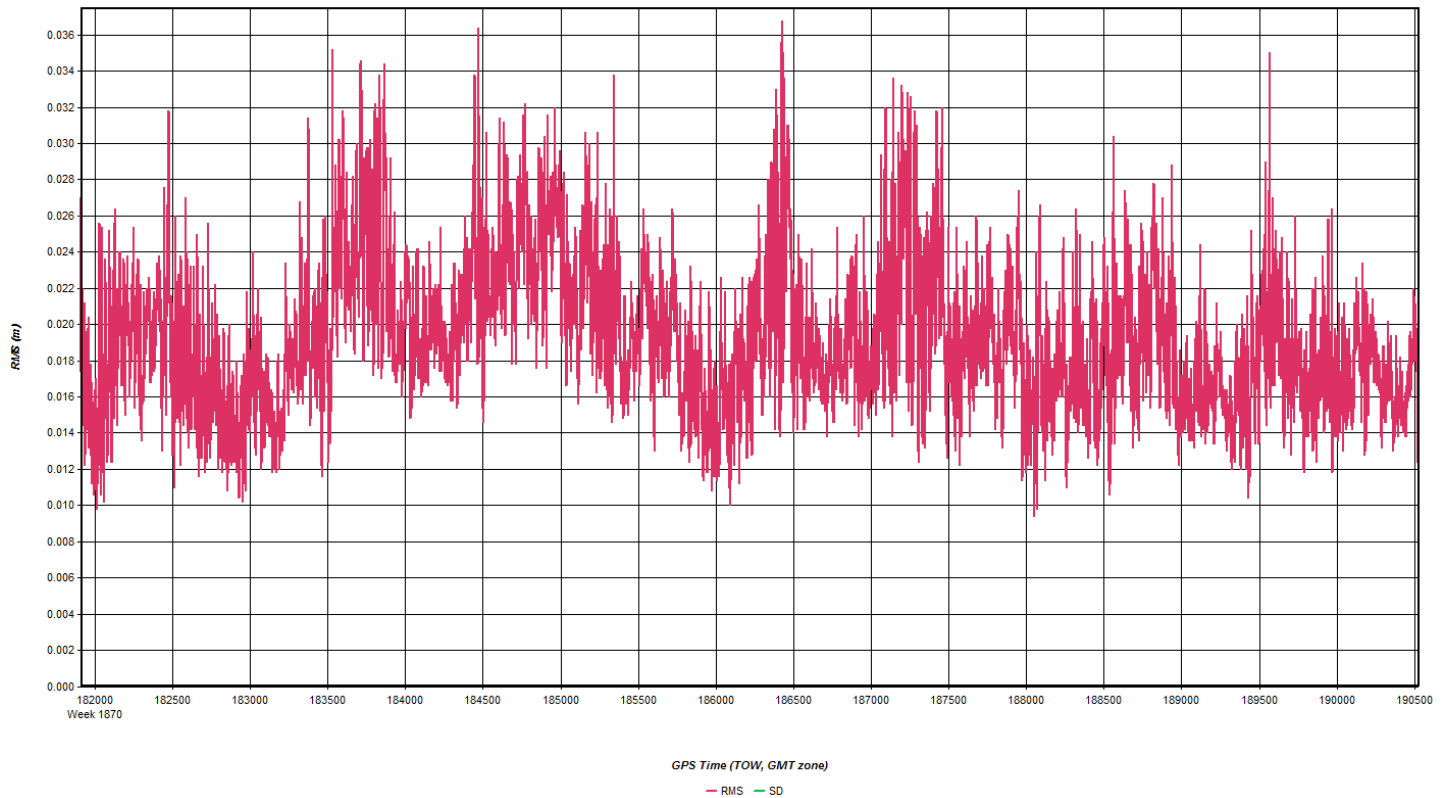


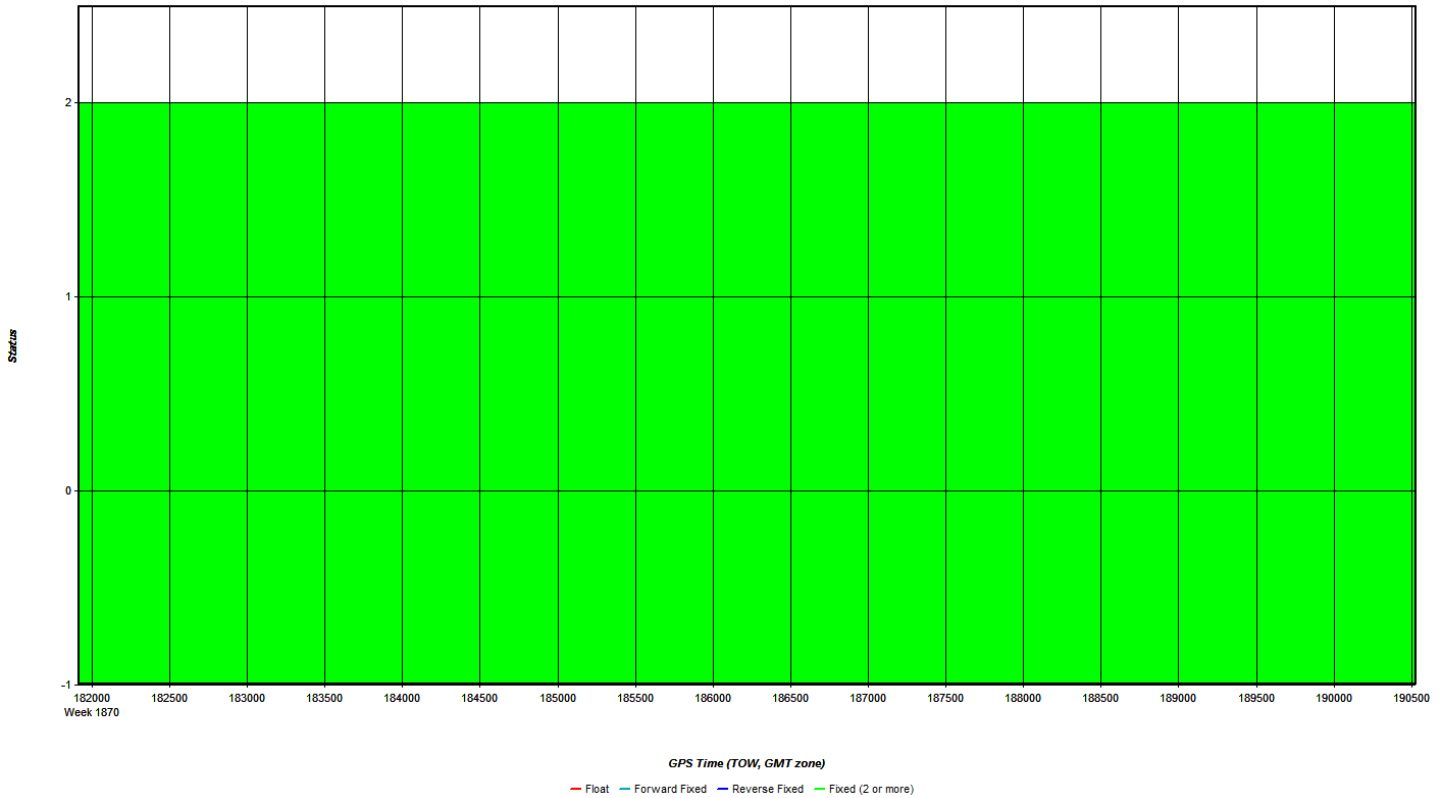
GPS Time (TOW, GMT zone)

— Heading/Azimuth — GPS-COG









Coordinate/Antenna Settings

Master Remote

Base Station
 2: AA01 Name: AA01 Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\29CL\26818_USG;

Coordinates
 Latitude: North 43 40 21.87219 Compute from PPP
 Longitude: West 71 29 10.54110 Enter Grid Values
 Ellipsoidal height: 221.099 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

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

Master Remote

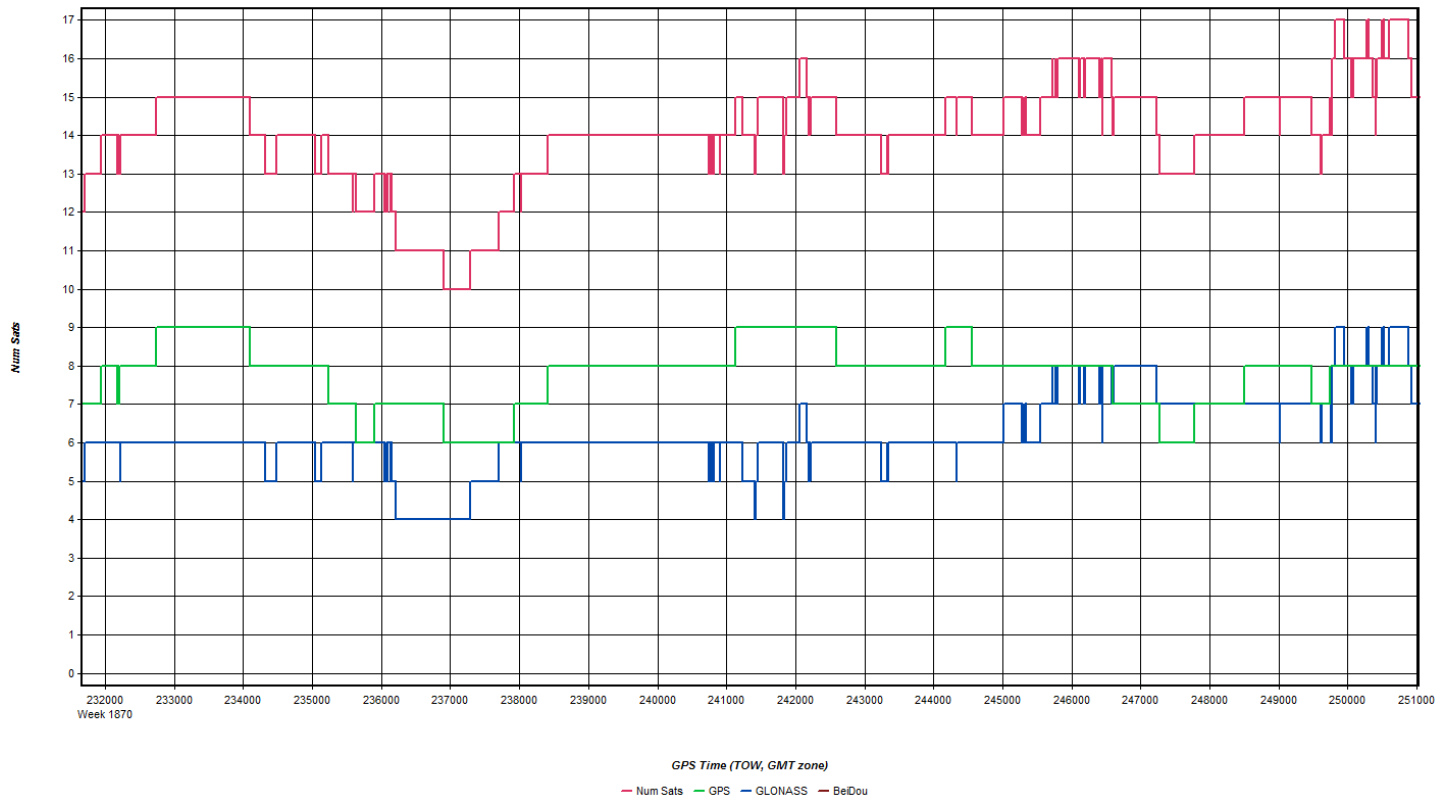
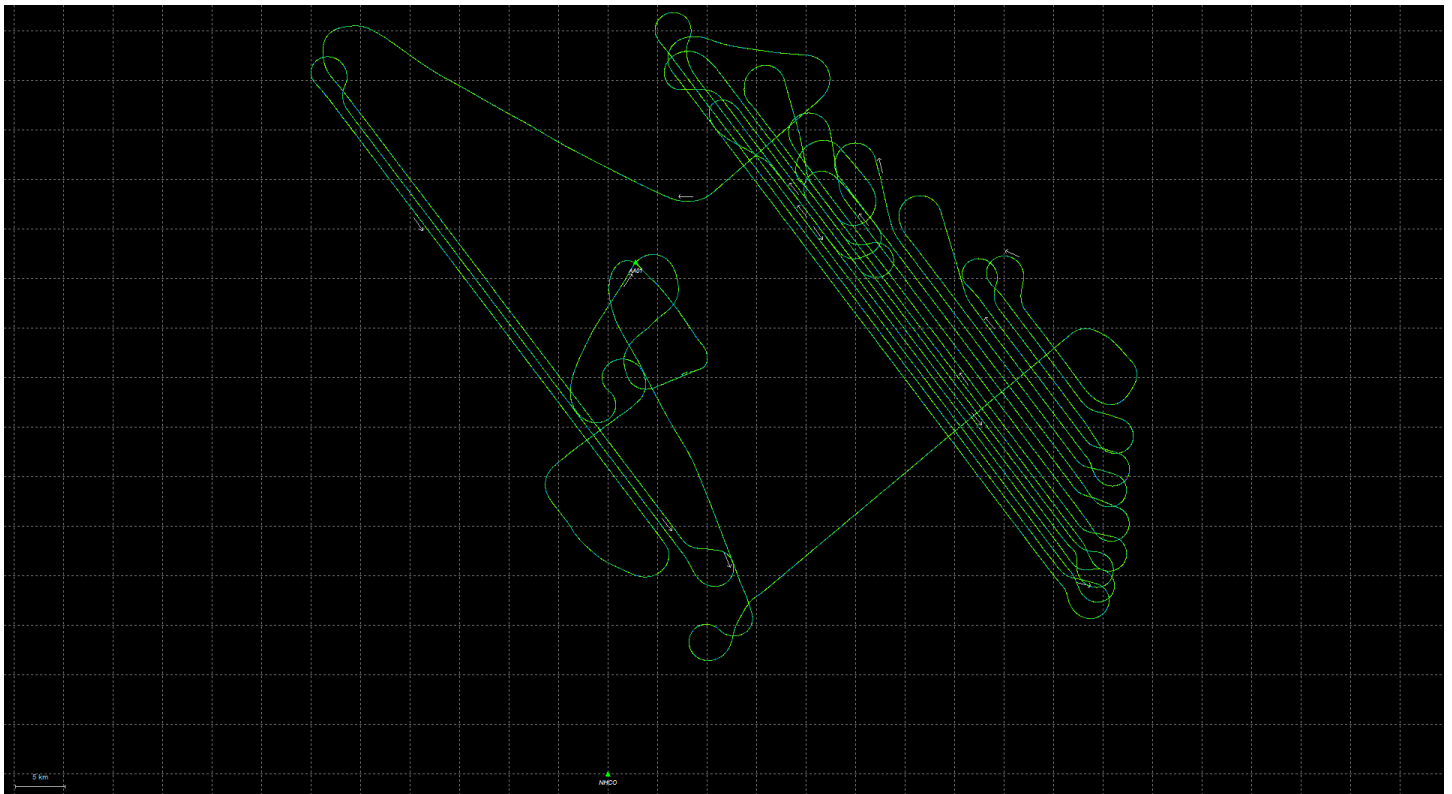
Base Station
 1: NHCO Name: NHCO Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\29CL\26818_USG:

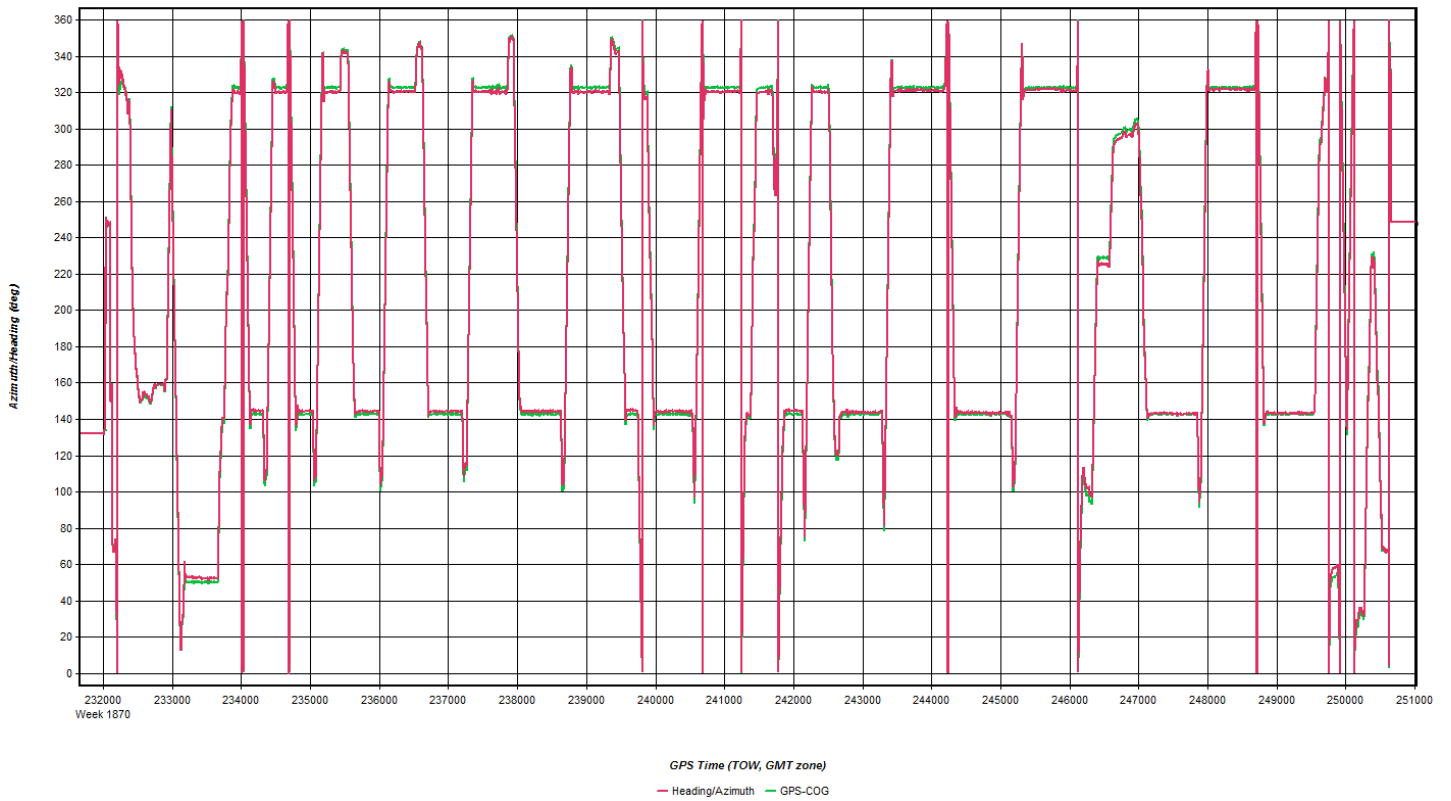
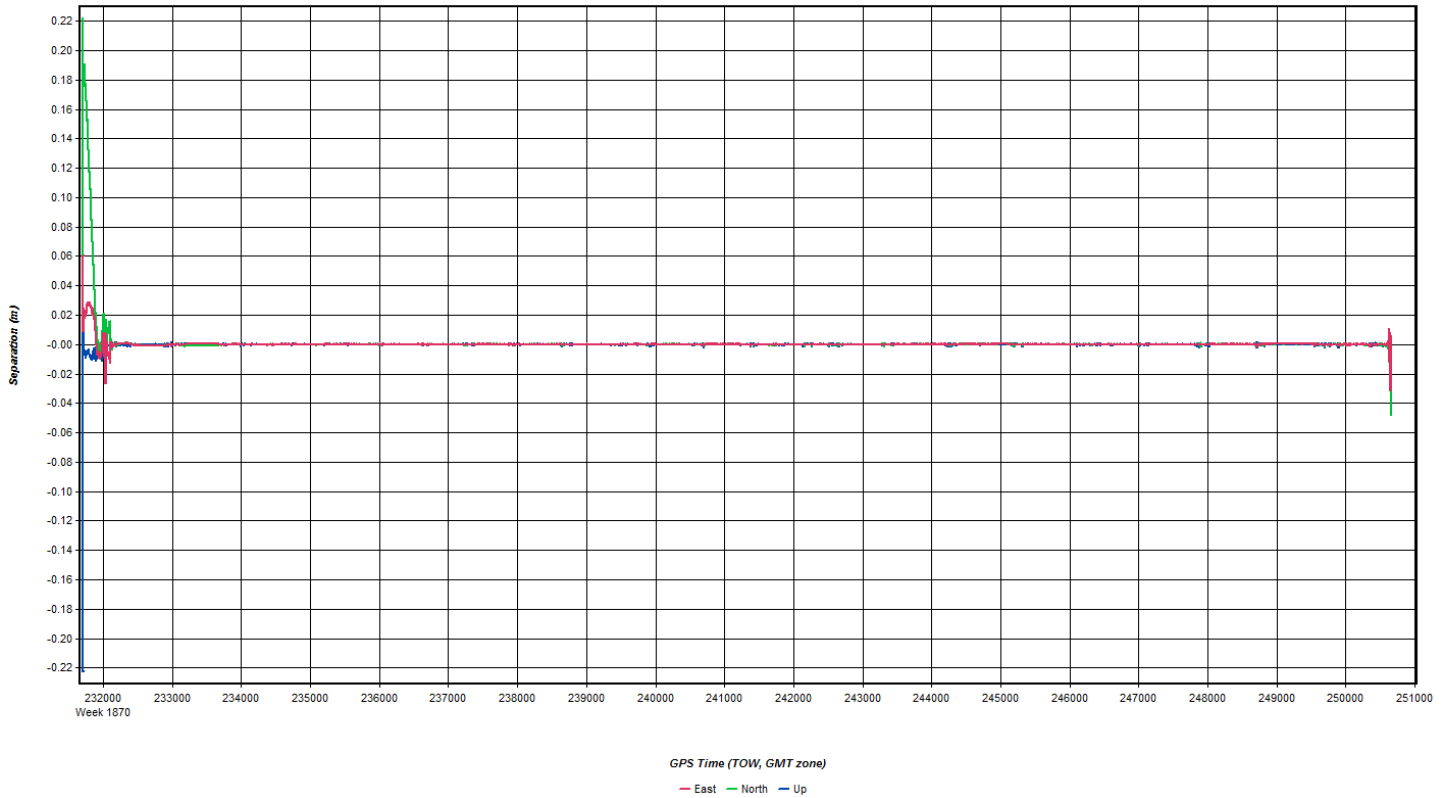
Coordinates
 Latitude: North 43 12 46.19587 Compute from PPP
 Longitude: West 71 31 11.47551 Enter Grid Values
 Ellipsoidal height: 89.430 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

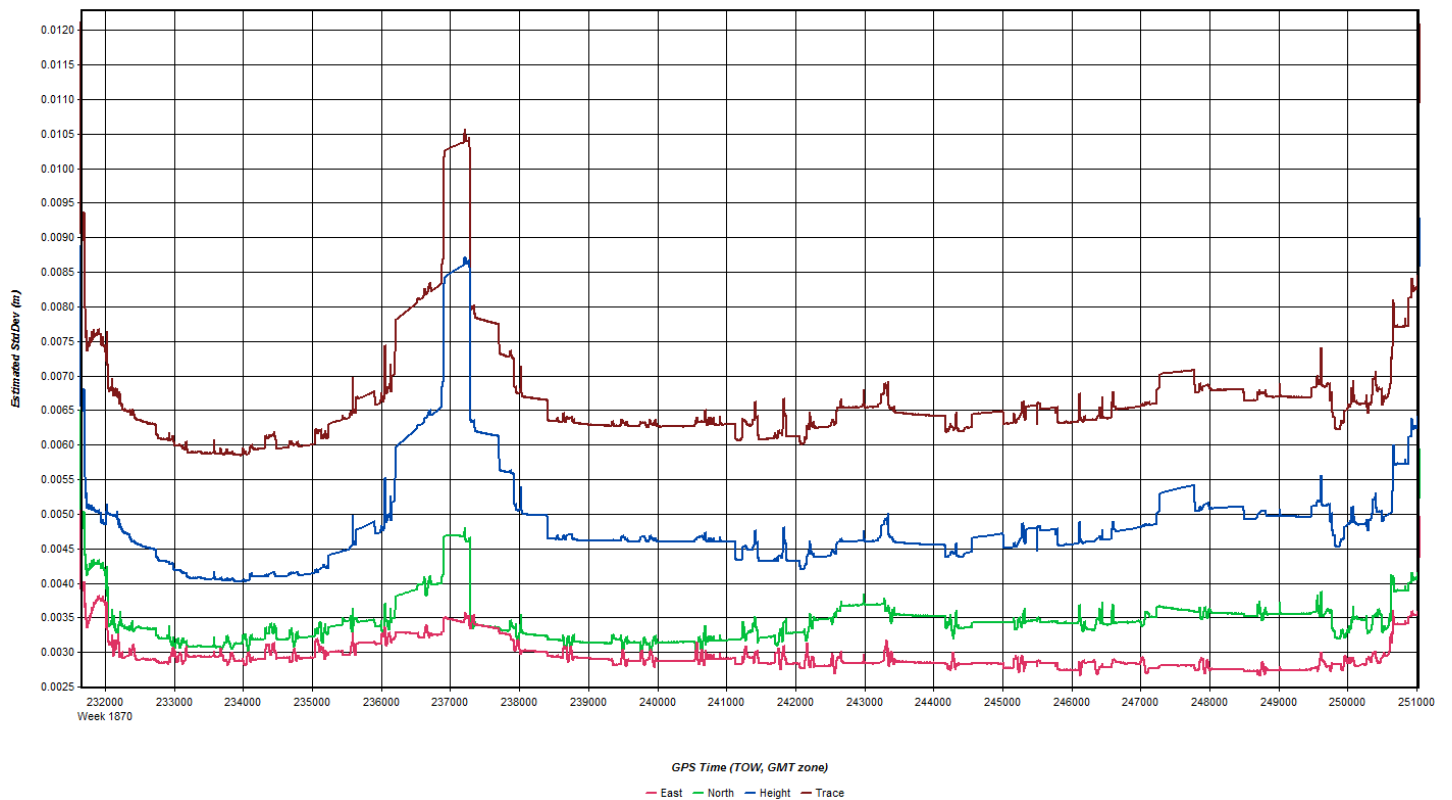
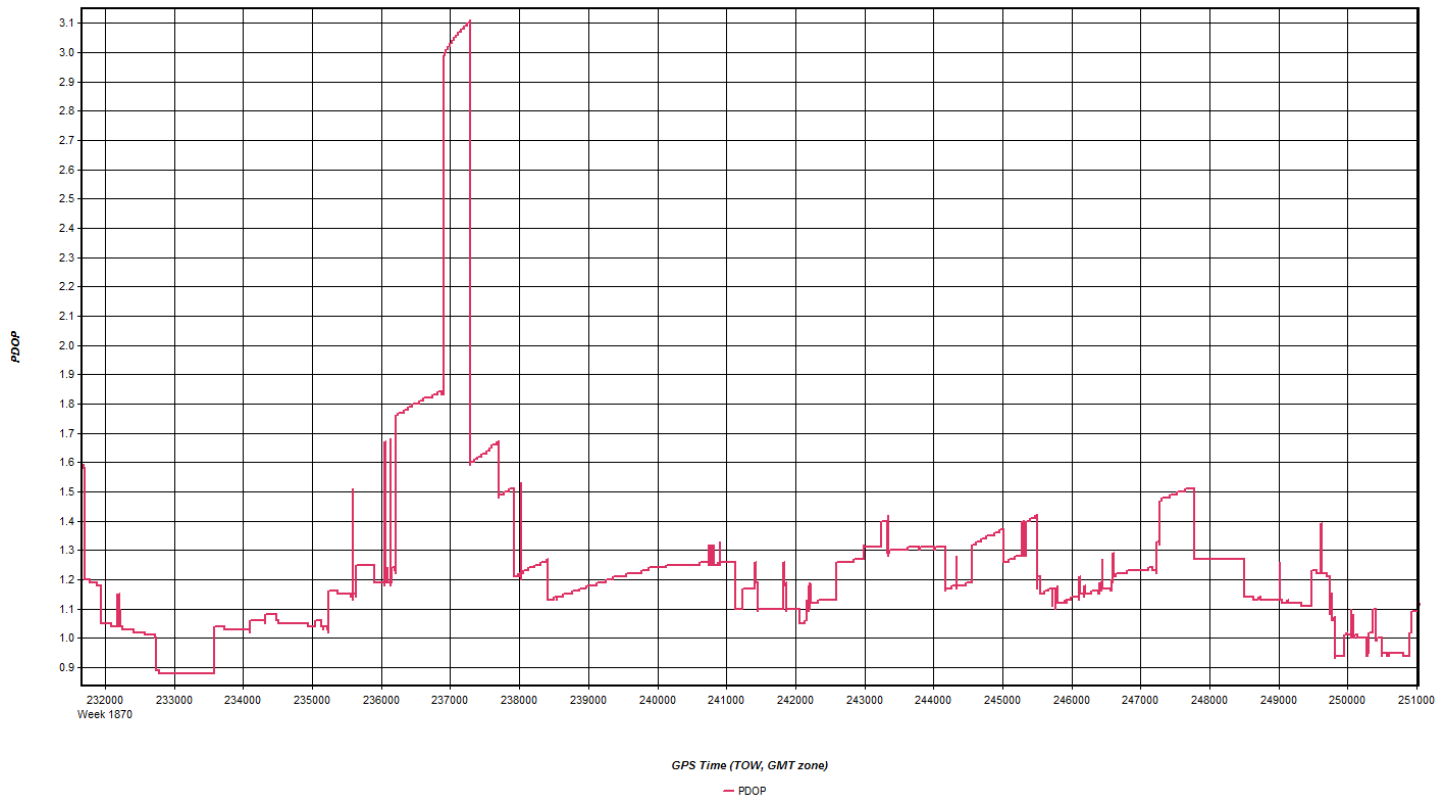
Antenna Height
 From station file: TRM57971.00, NONE View STA File
 Antenna profile: TRM57971.00 Info
 Measured height: 0.000 m
 ARP to L1 offset: 0.067 m
 Applied height: 0.067 m
 Measured to:
 ARP
 L1 Phase Centre
 Compute From Slant

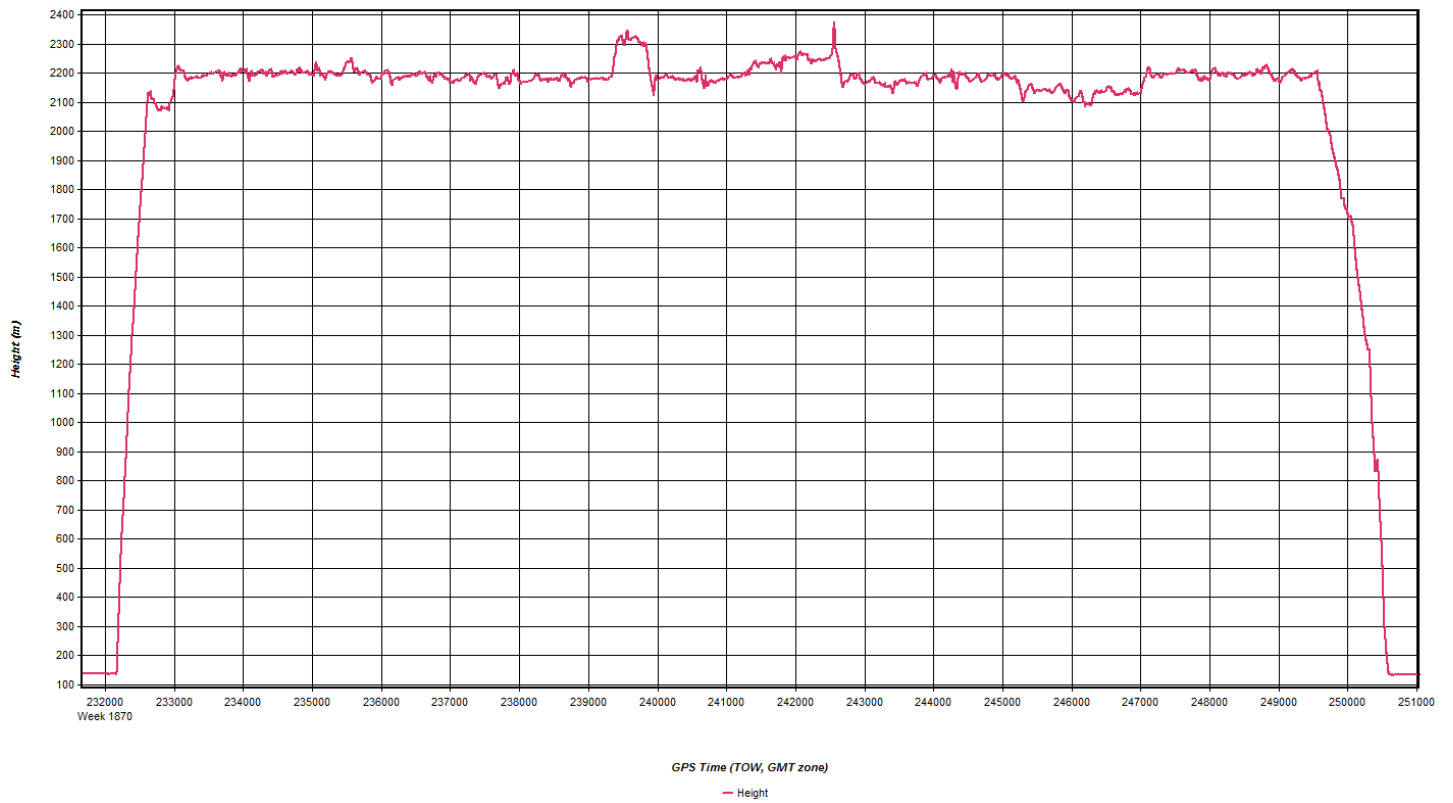
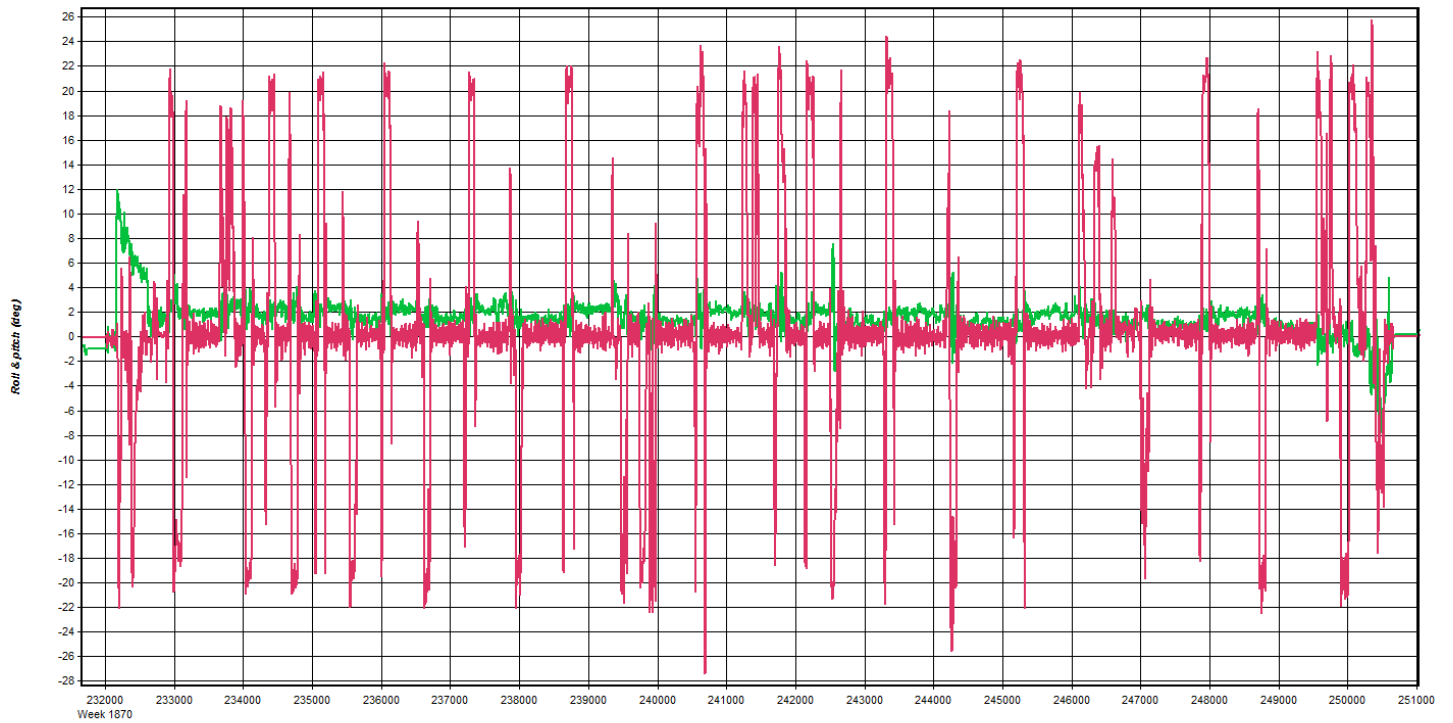
OK Cancel

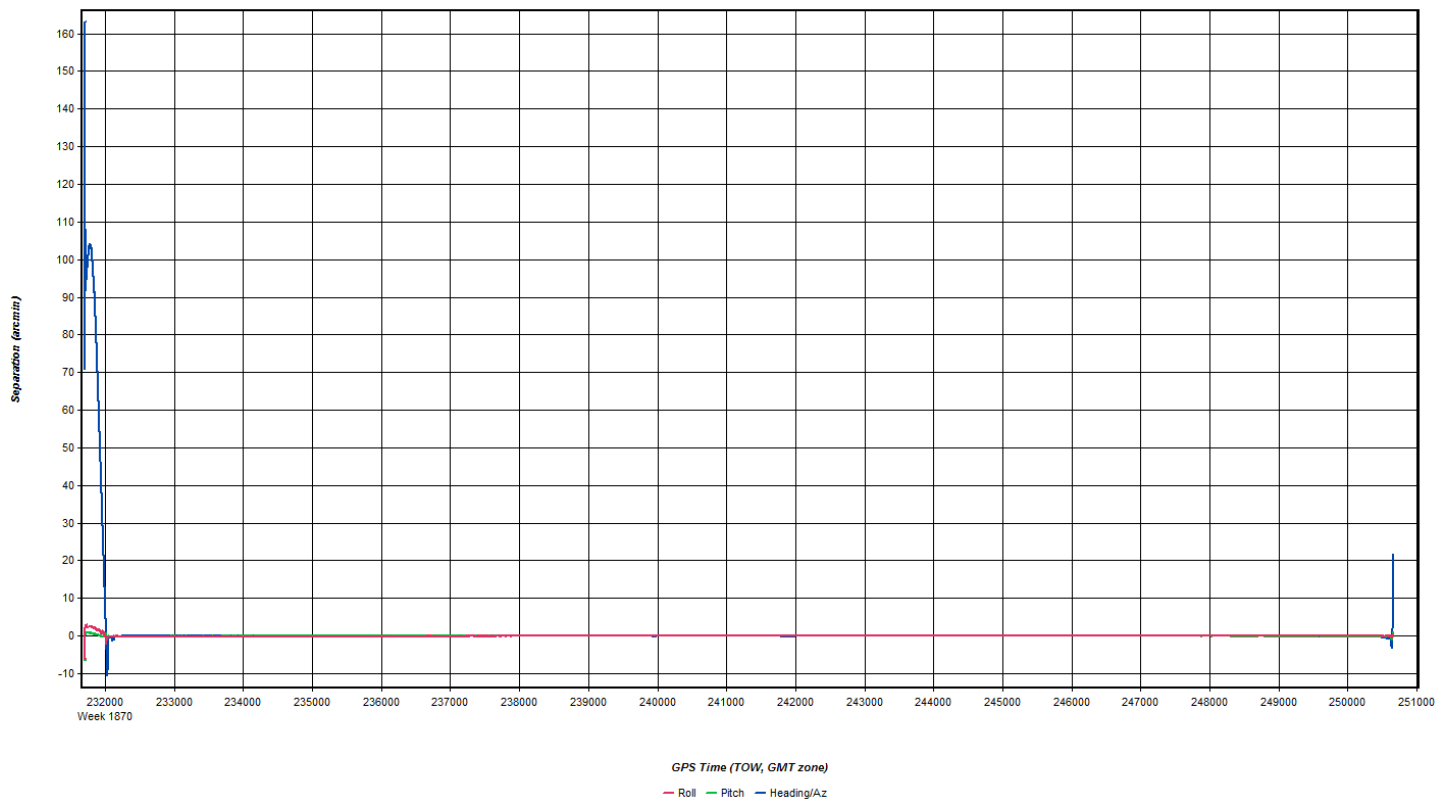
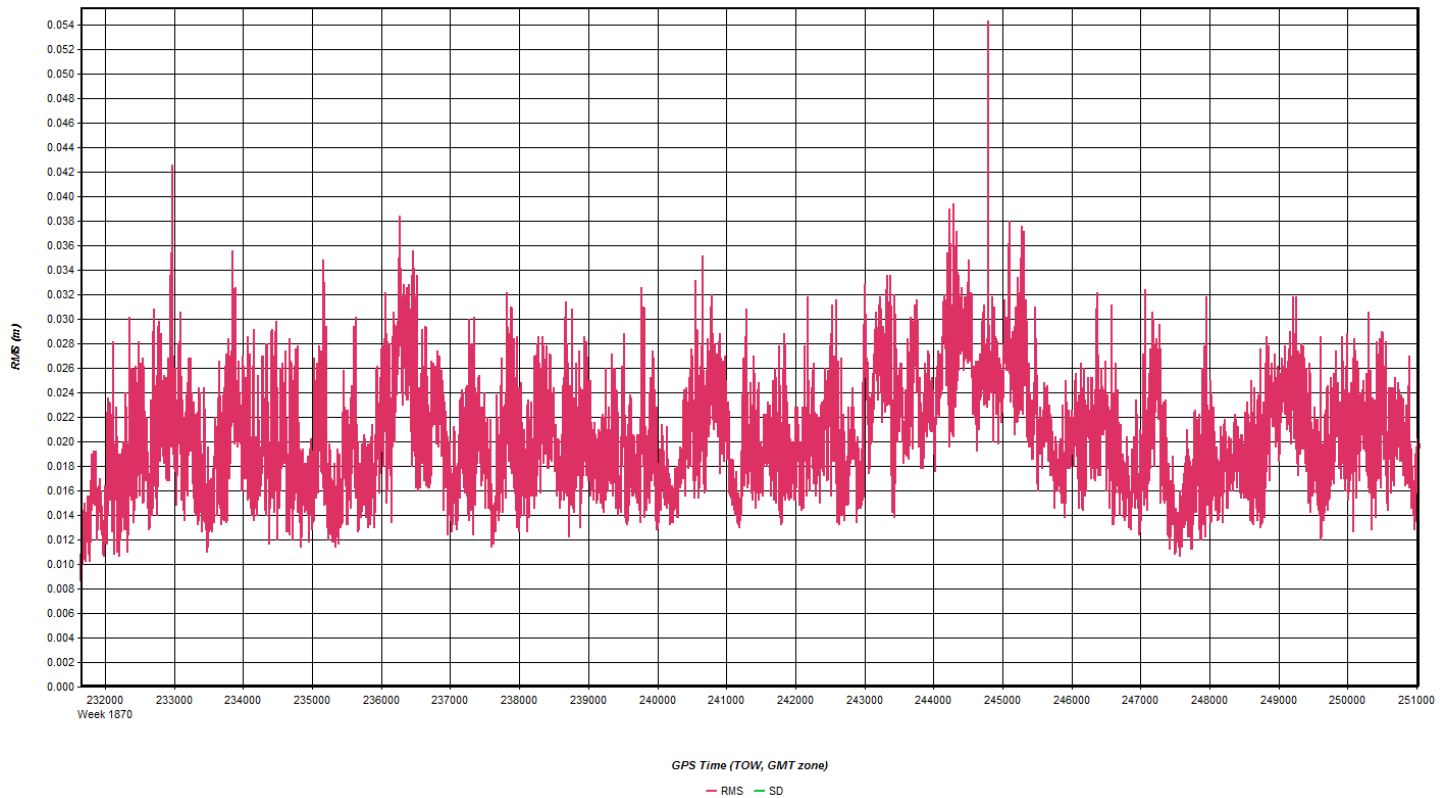
Nov 10, 2015-A (N6GR, SN7161)

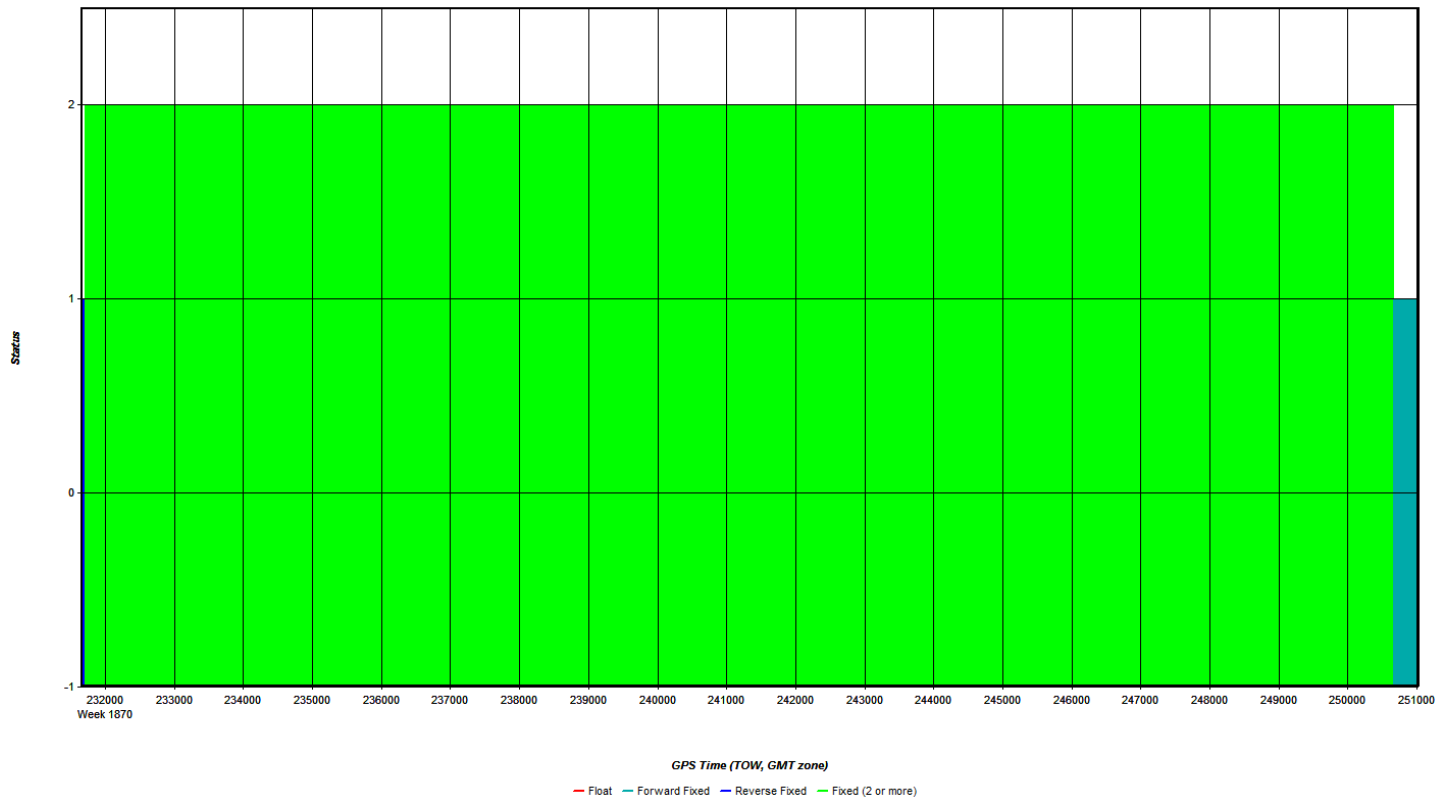












Coordinate/Antenna Settings

Master Remote

Base Station
 2: AA01 Name: AA01 Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\RAW_Data\ANGP

Coordinates
 Latitude: North 43 40 21.87219 Compute from PPP
 Longitude: West 71 29 10.54110 Enter Grid Values
 Ellipsoidal height: 221.099 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

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

Master Remote

Base Station
1: NHCO Name: NHCO Disabled
File: S:\LIDAR\26818_CT_River\26818_CT_River\RAW_Data\ANGP

Coordinates
Latitude: North 43 12 46.19587 Compute from PPP
Longitude: West 71 31 11.47551 Enter Grid Values
Ellipsoidal height: 89.430 m Enter MSL Height
Datum: NAD83(2011) Datum Options
Select From Favorites Add To Favorites Use Average Position

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

OPERATORS FLIGHT LOG

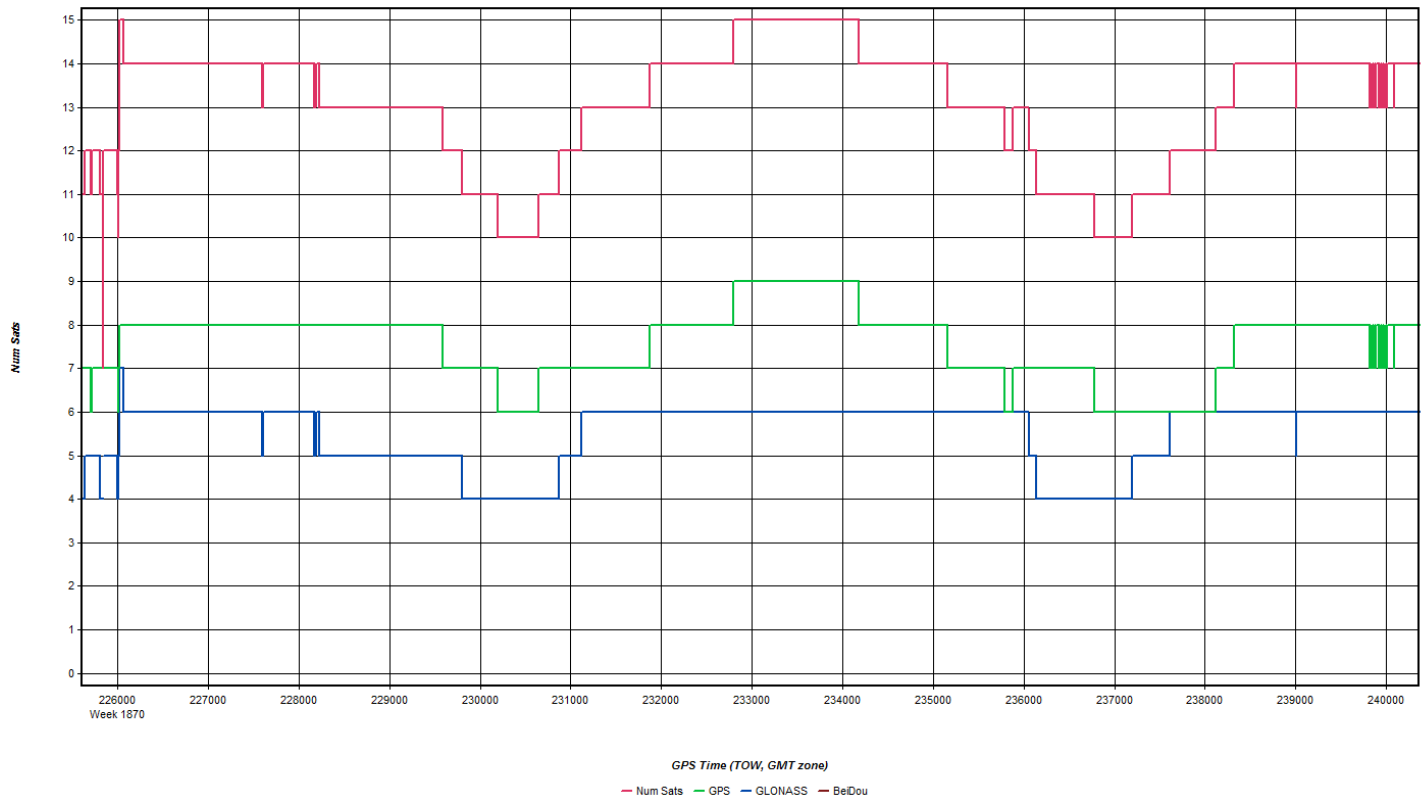
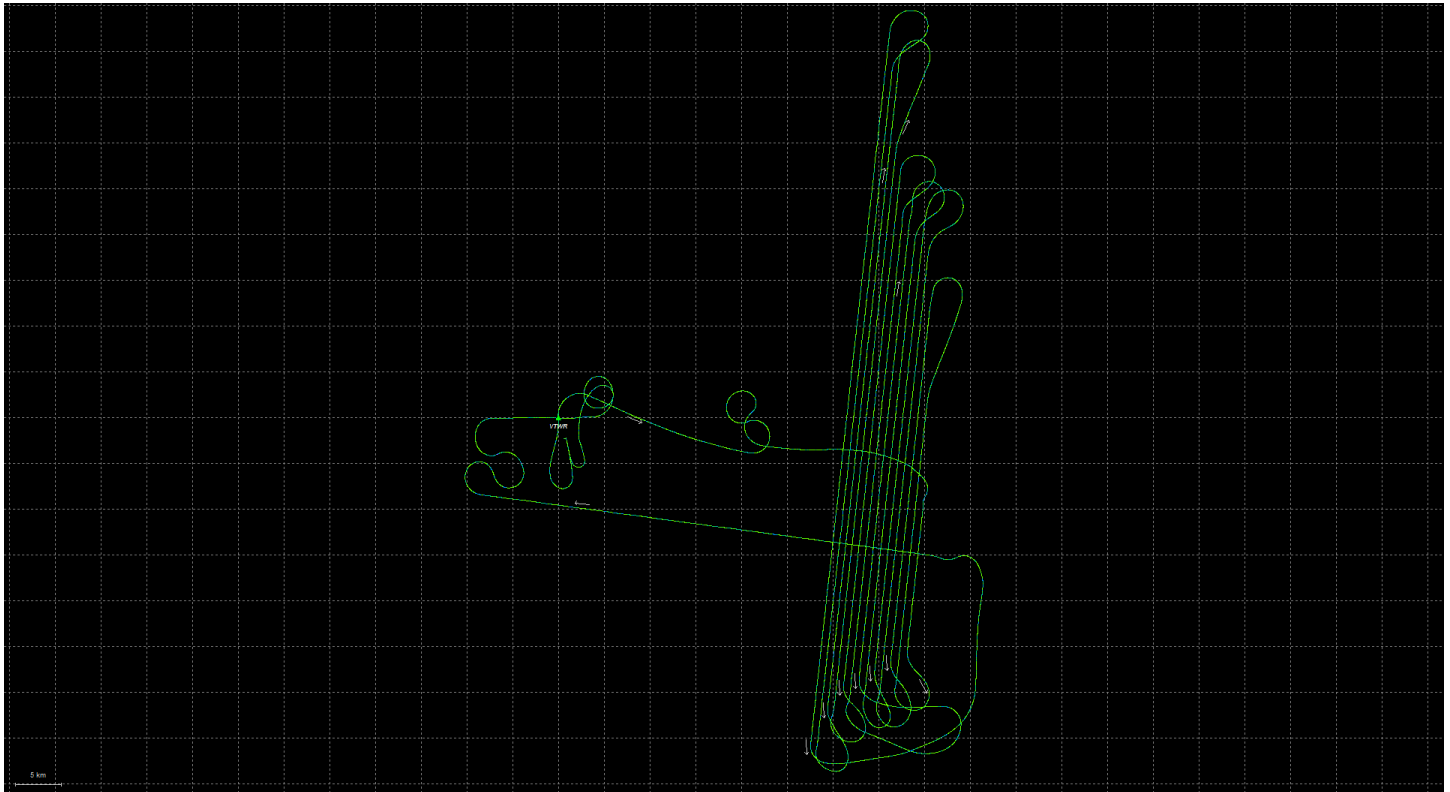
MISSION: 2015110_161639 DATE: 11-10-15 LEICA ALS70 7161 Winnepesaukee

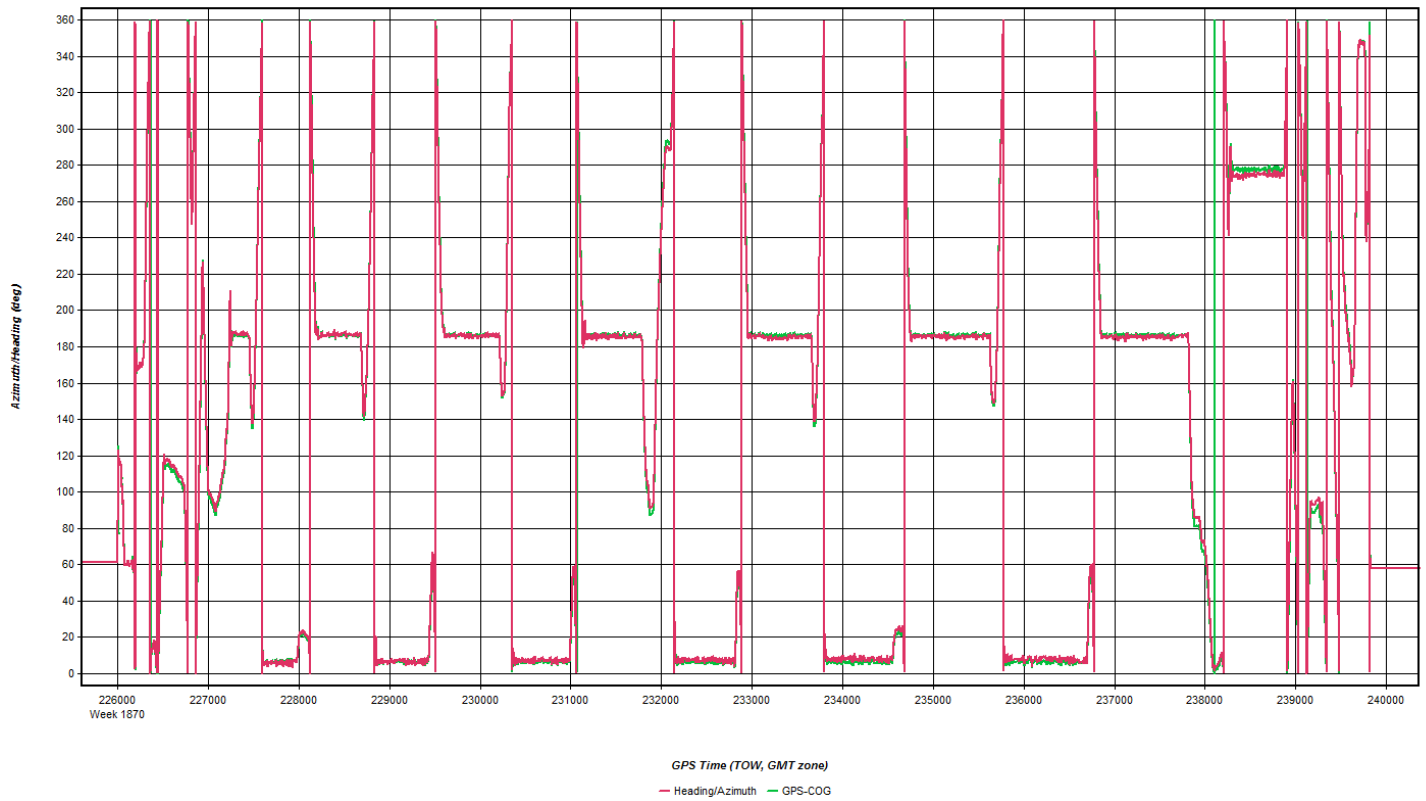
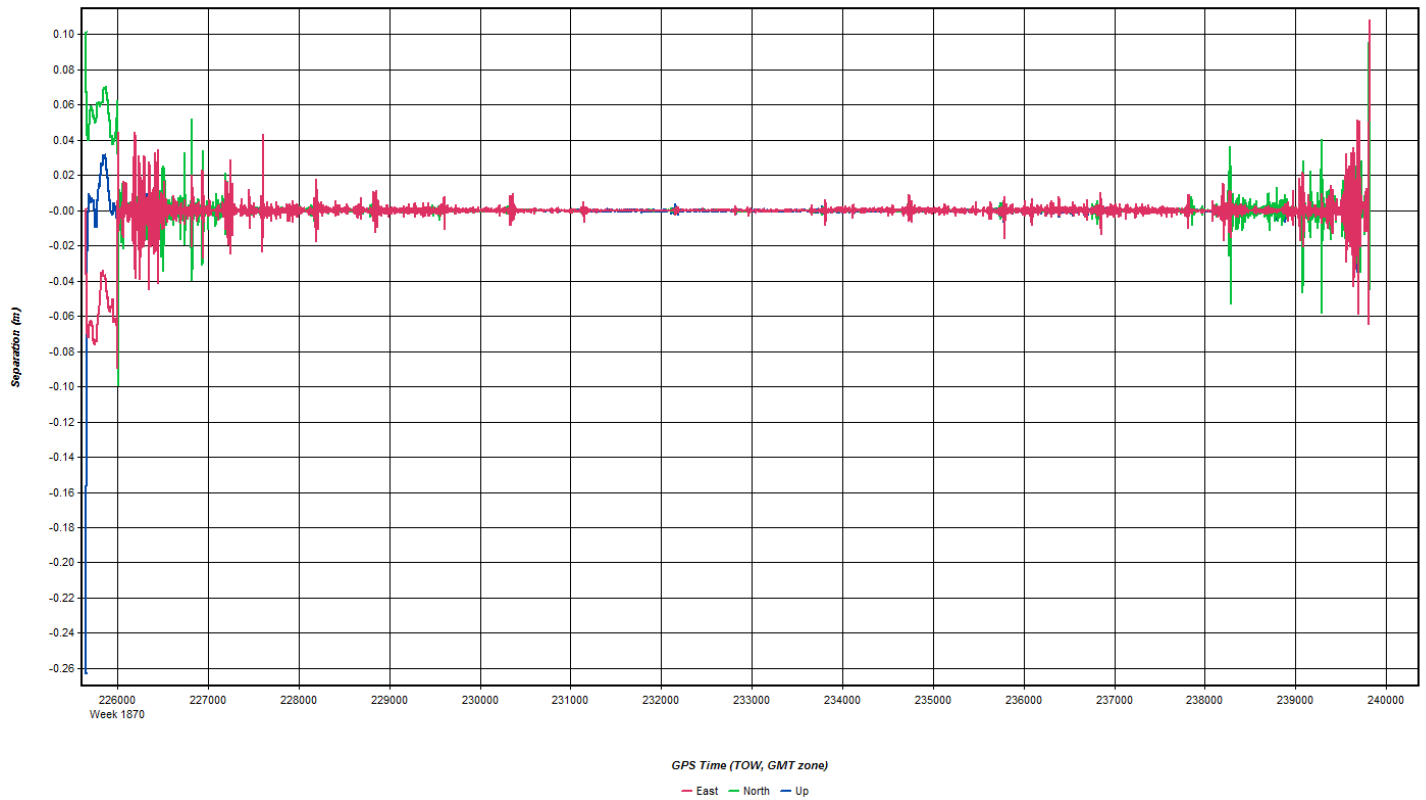
PILOT: JACOBSON OPERATOR: CAREY AIRCRAFT: N6GR

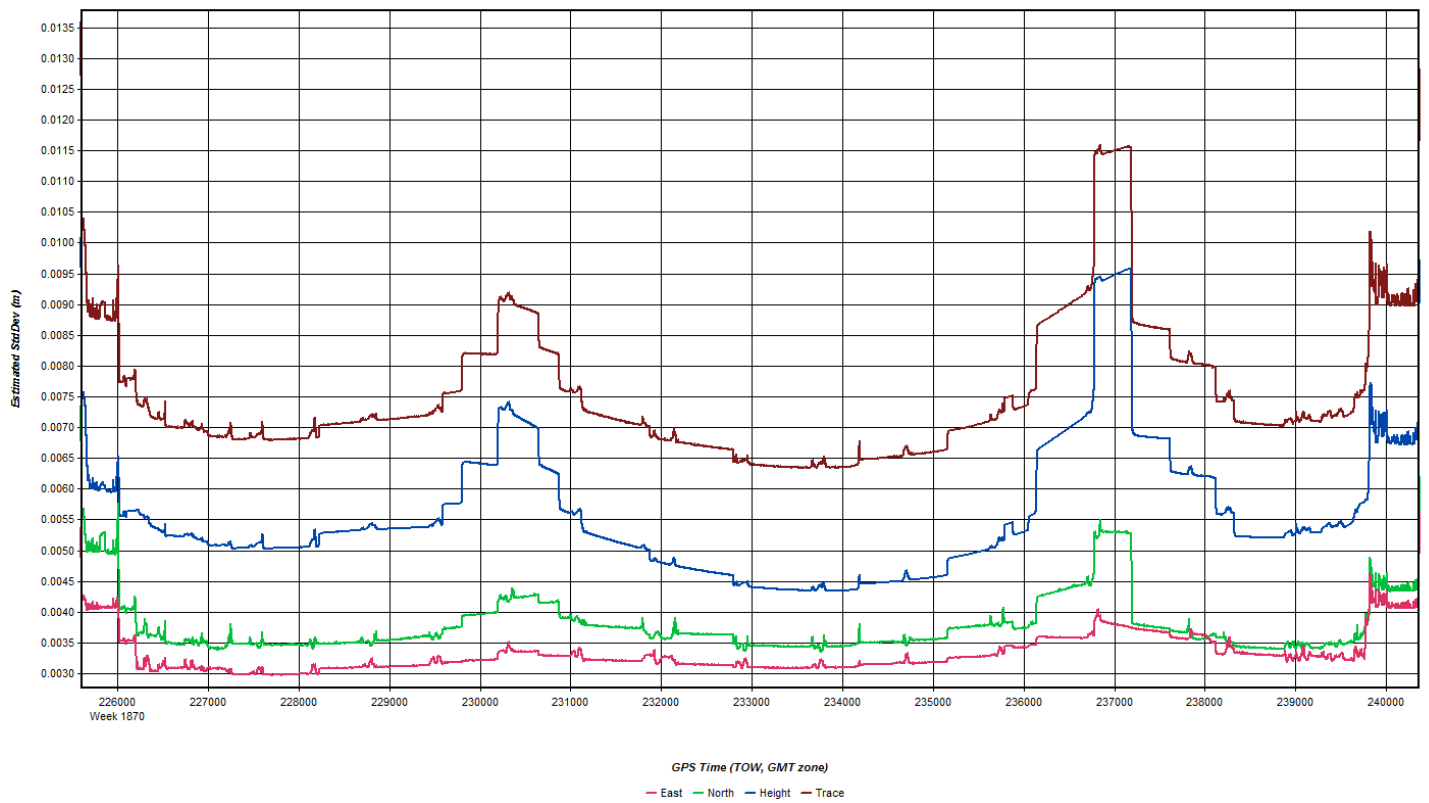
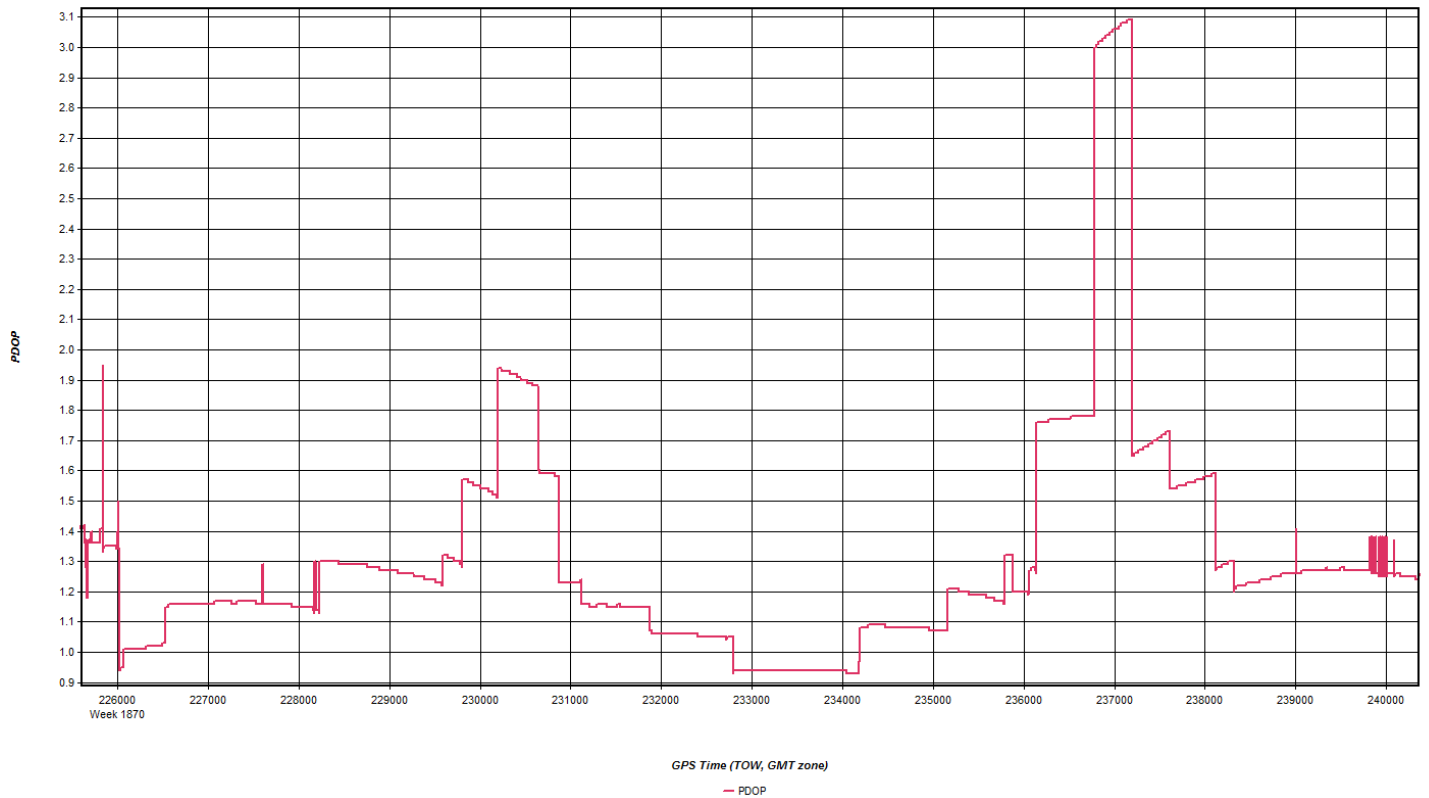
PROJECT NUMBER AND NAME	LINE		GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (m)	TIME		REMARKS
	No.	Hdg							START	STOP	
26818									1624	1632	LCI → SITE
Winnepesaukee									1632		GPS ID: AA01 44 40 36 45 71 29 17 52
XFLT	14	5014	50	53	40	263	12/3	7221	1647	1654	Fig 8
	101	5161	323					7264	1658	1659	NET/SKC!
	100	5400	143					7447	1702	1704	
	99	5099	323					7254	1708	1710	
	98	5098	143					7204	1713	1716	
	97	5097	323					7201	1719	1723	
	96	5096	143					7178	1727	1732	Thin 25k
	95	5095	323					7139	1736	1741	
	94	5094	143					7136	1745	1753	
	93	5093	323	53	40	263	12/3	7119	1756	1803	15
	92	5092	143					7119	1807	1817	
	91	5091	323					7119	1819	1828	
	90	5090	143					7549	1833	1835	
	89	5089	143					7119	1840	1848	
(86)	88	5086	323					7126	1851	1900	
	85	5085	323					7323	1905	1907	
STATUS	TOTAL LINES	FLOWN	LEFT #	AIRCRAFT		FERRY	STATIC	START	STOP	NOTES:	
Winnepesaukee	68	101	SEE LOG							BASE @ LCI	
							WIX				LOG 1

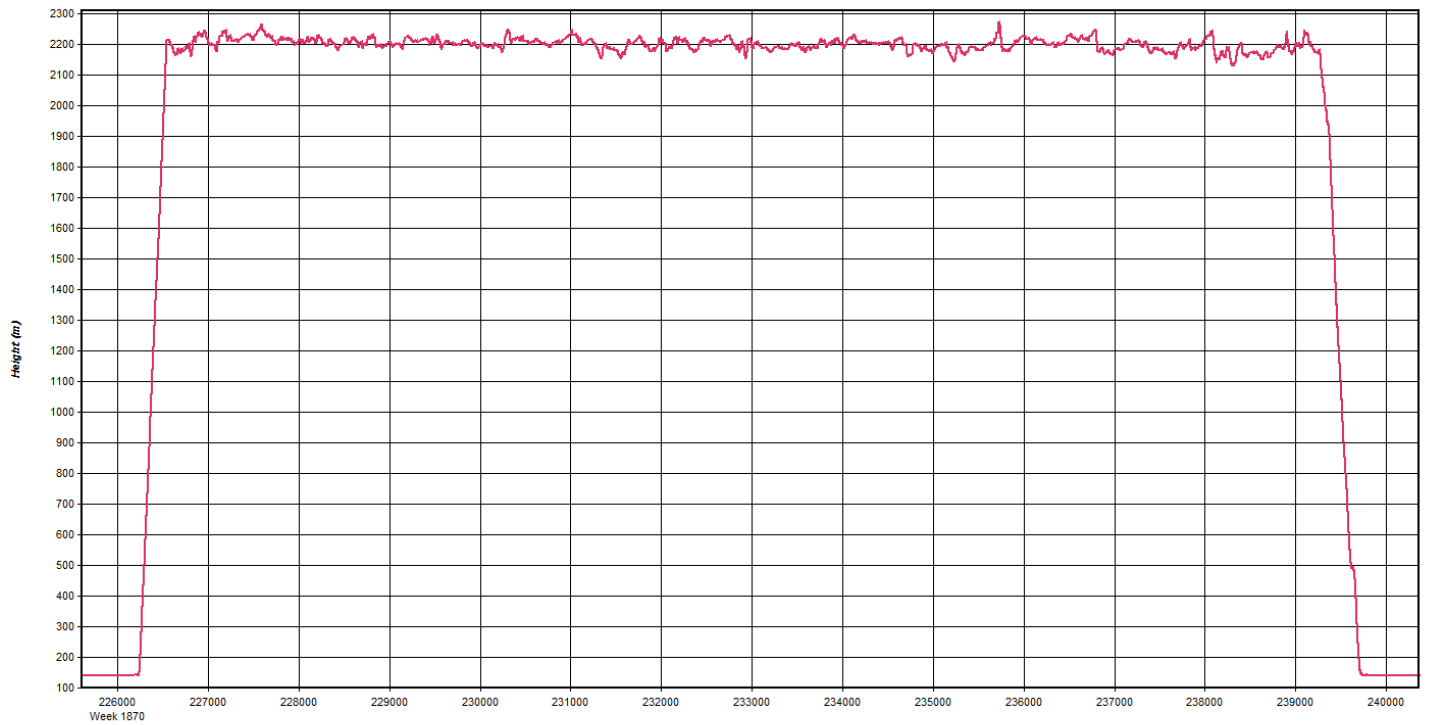
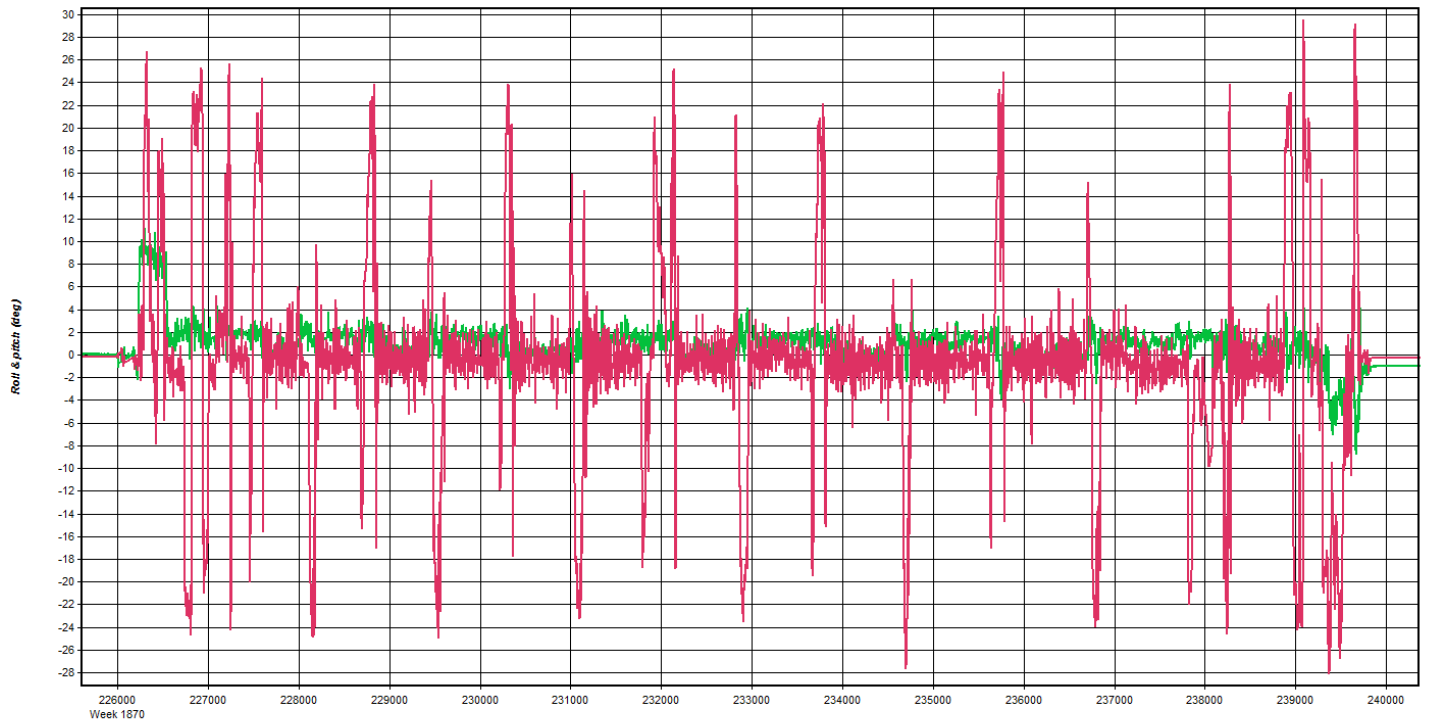
AERO-METRIC, INC. N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2665 FAX: 888-253-6695 E-Mail: amphoto@aerometric.com

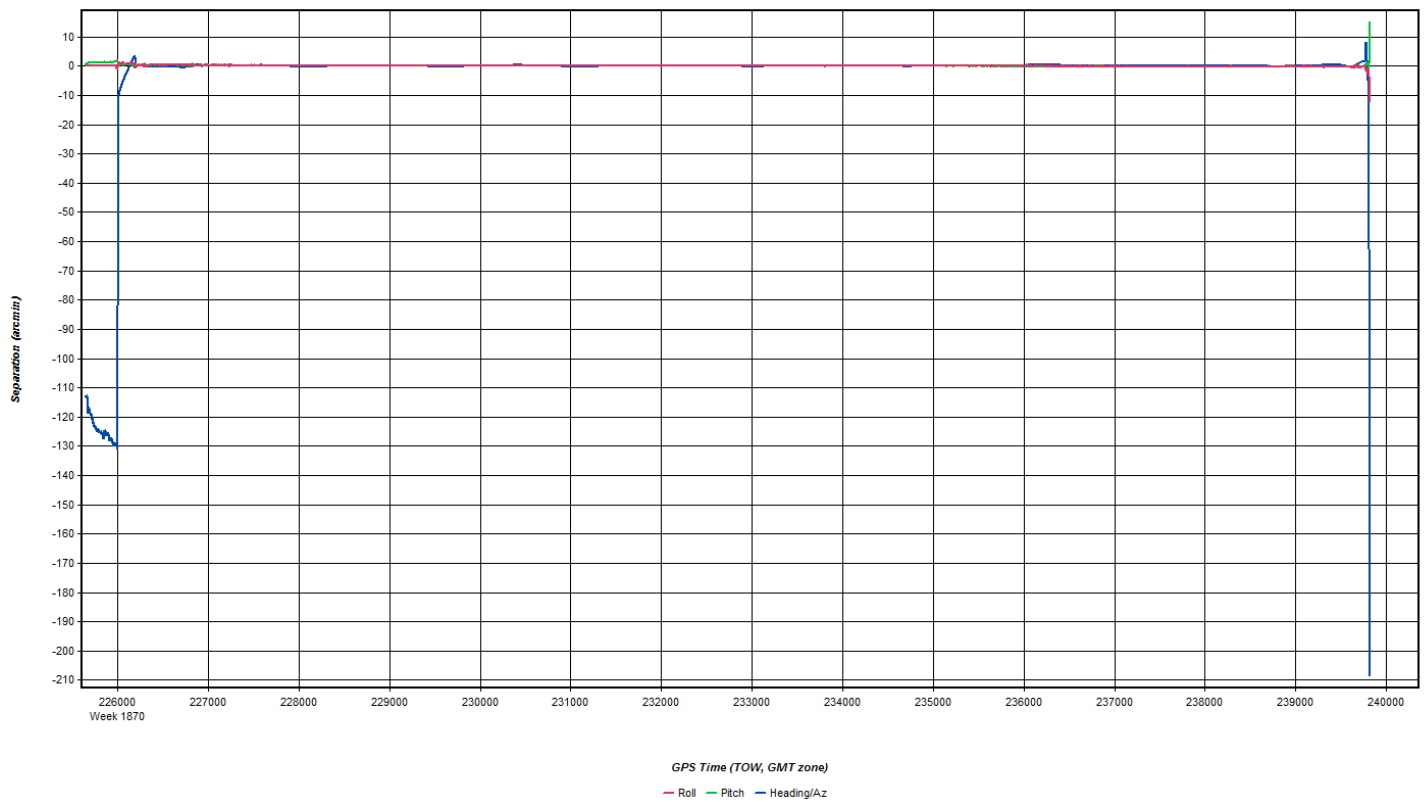
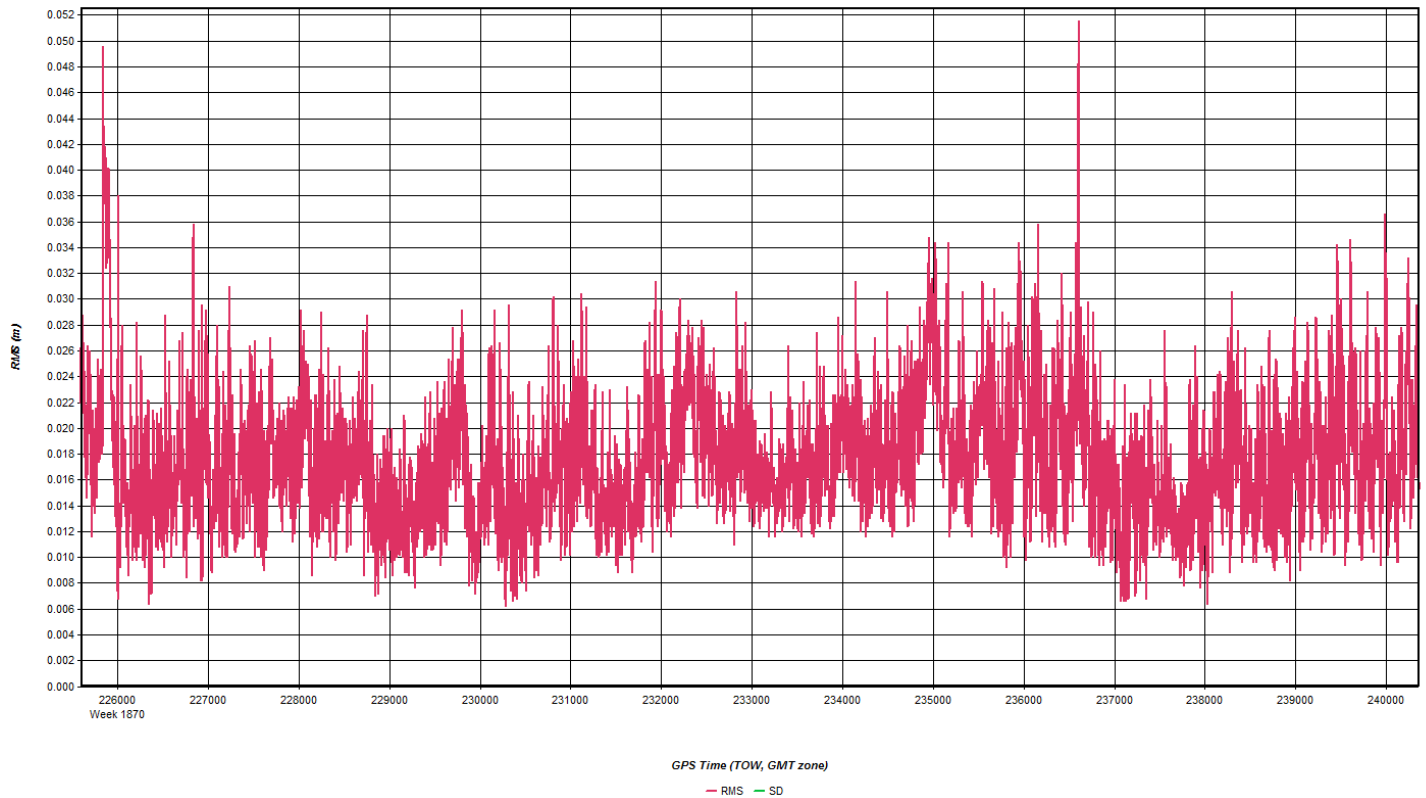
Nov 10, 2015-A (N22GE, SN7178)

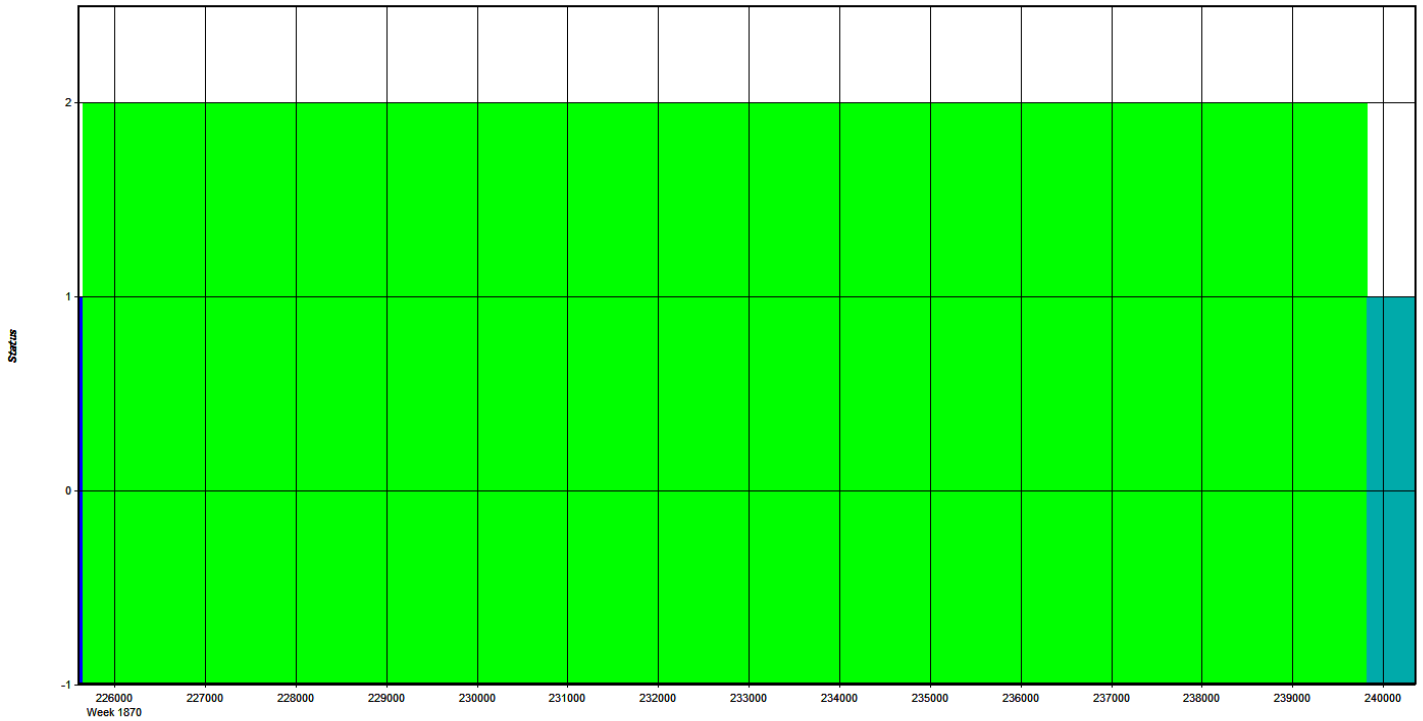












GPS Time (TOW, GMT zone)
 - Float - Forward Fixed - Reverse Fixed - Fixed (2 or more)

Coordinate/Antenna Settings

Master Remote

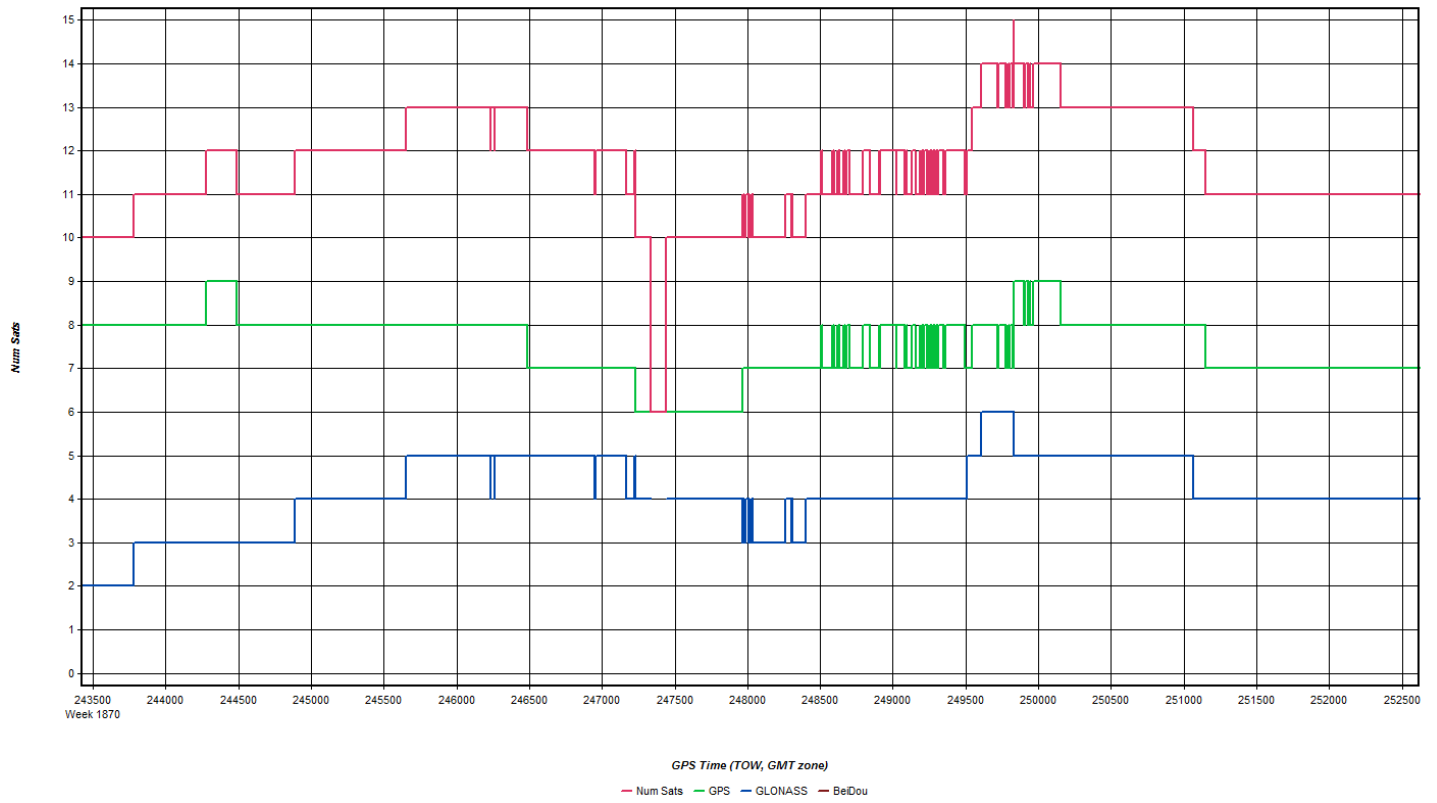
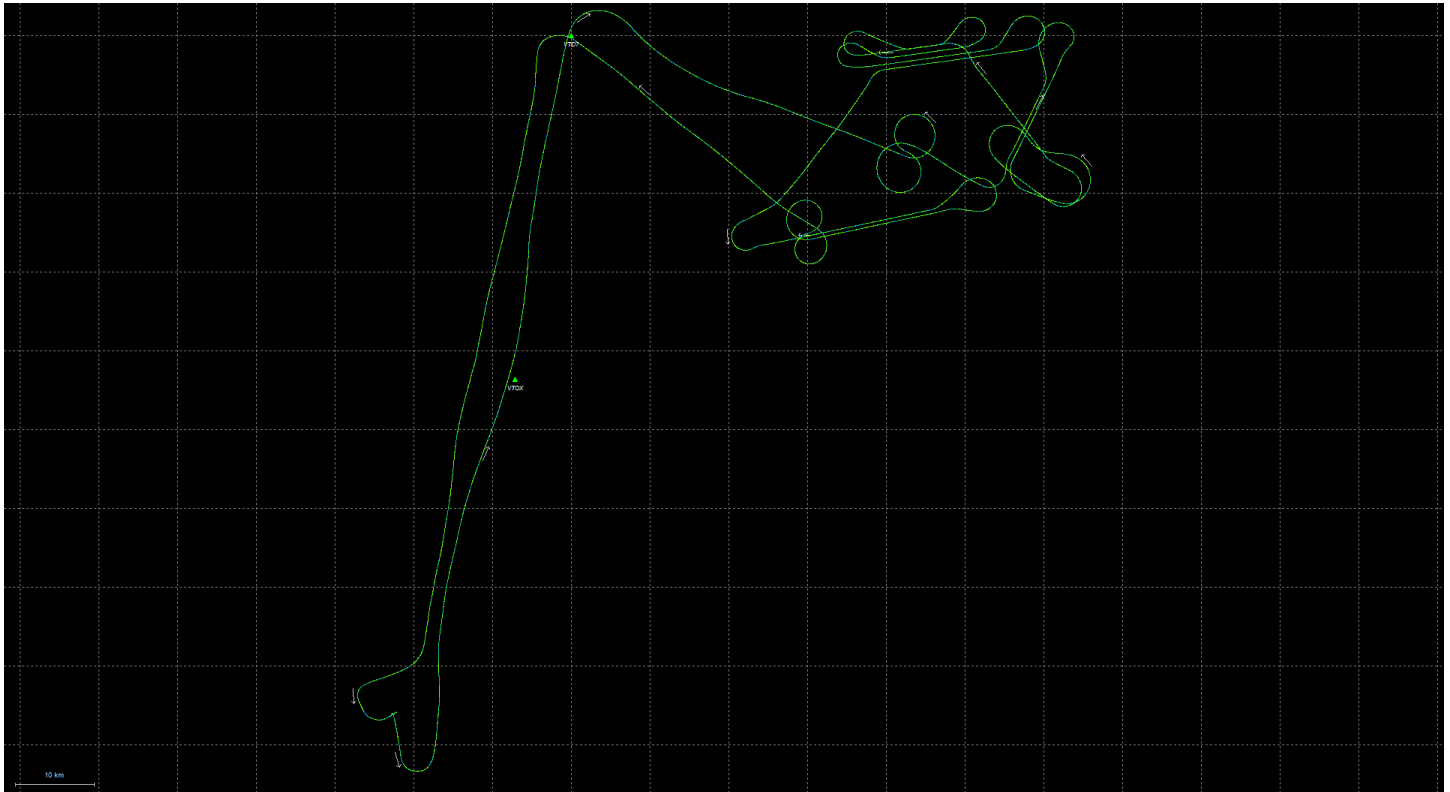
Base Station
 1: VTWR Name: VTWR Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\RAW_Data\D2ZH

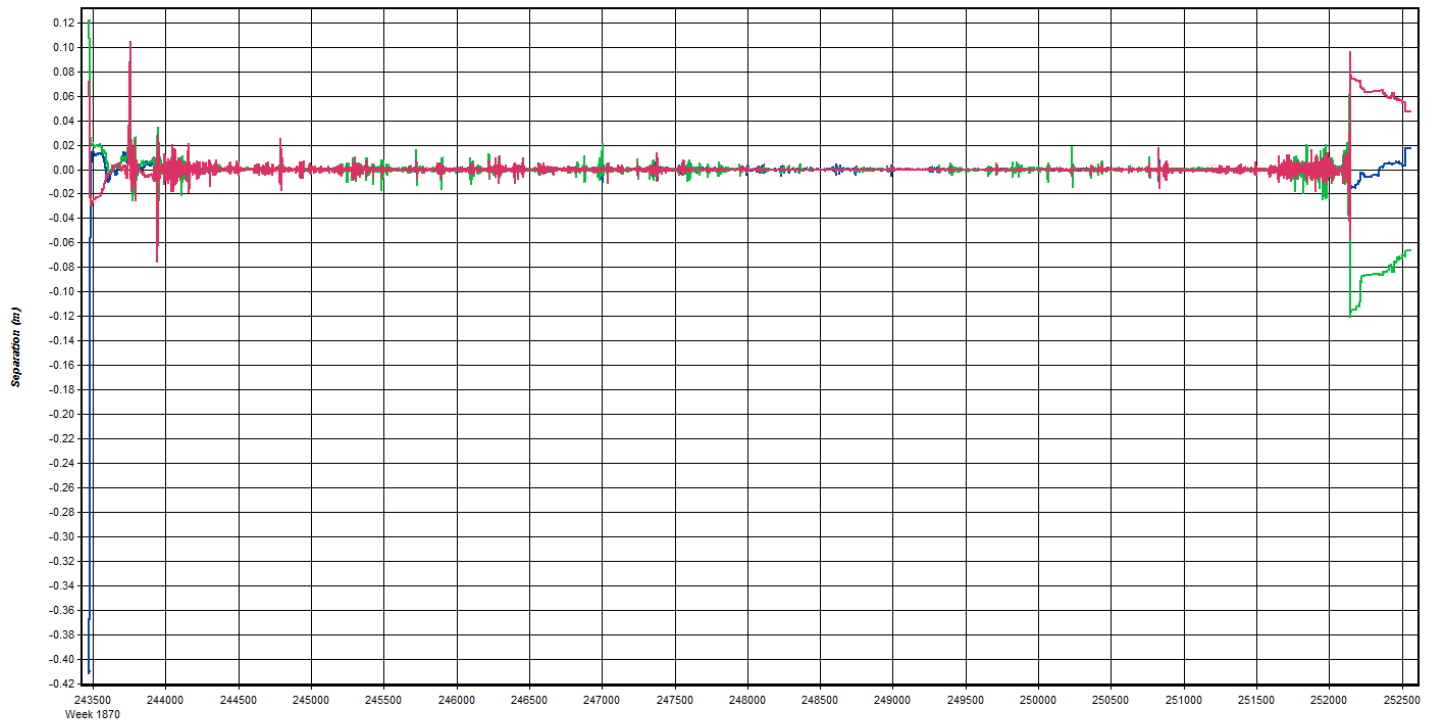
Coordinates
 Latitude: North 43 38 56.56909 Compute from PPP
 Longitude: West 72 19 02.66830 Enter Grid Values
 Ellipsoidal height: 97.616 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

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

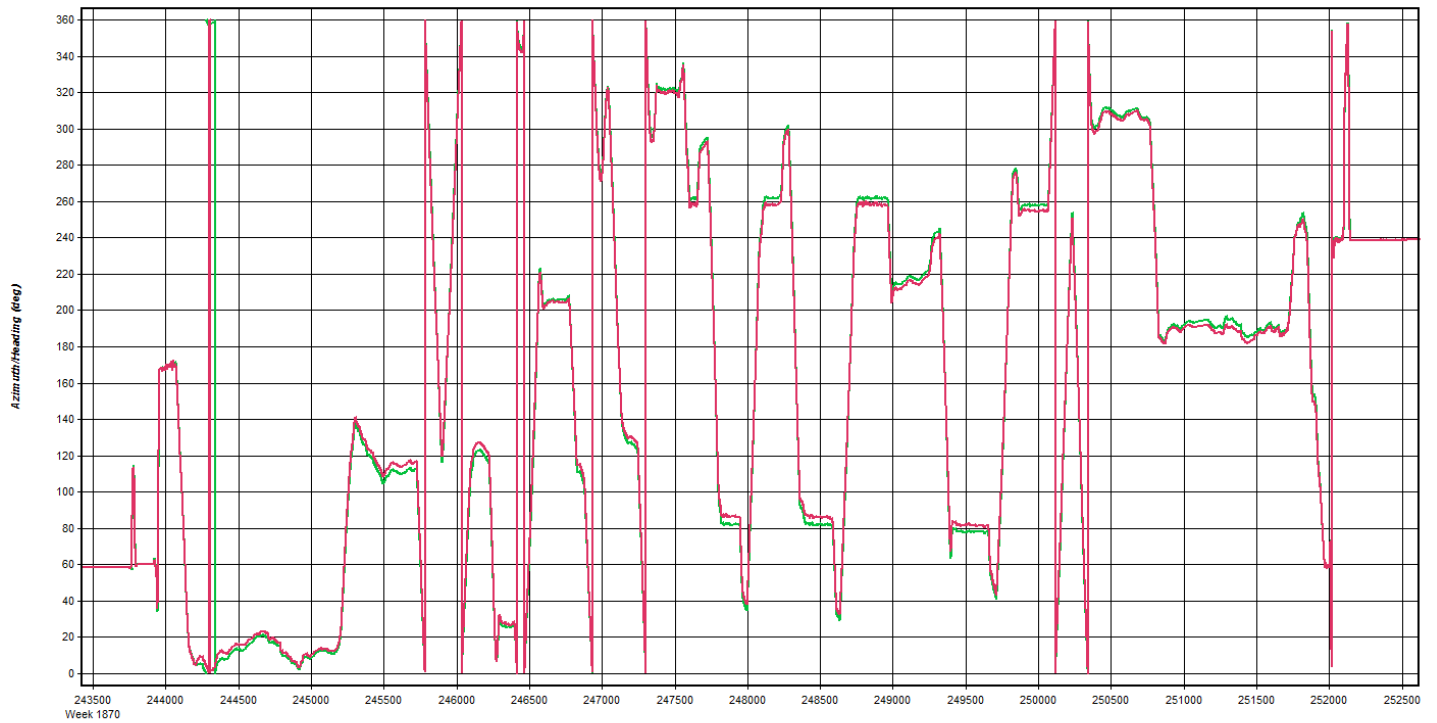
OK Cancel

Nov 10, 2015-B (N22GE, SN7178)

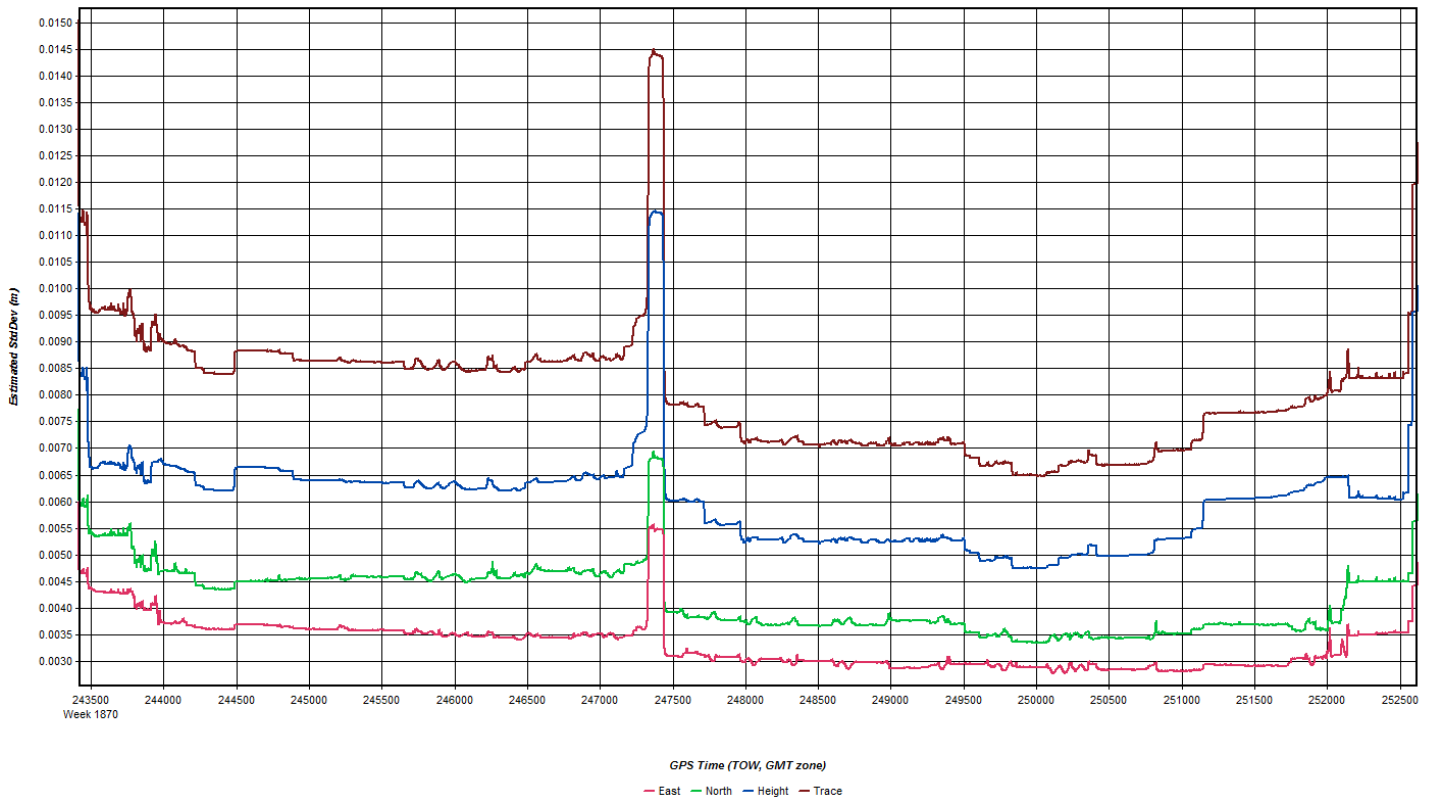
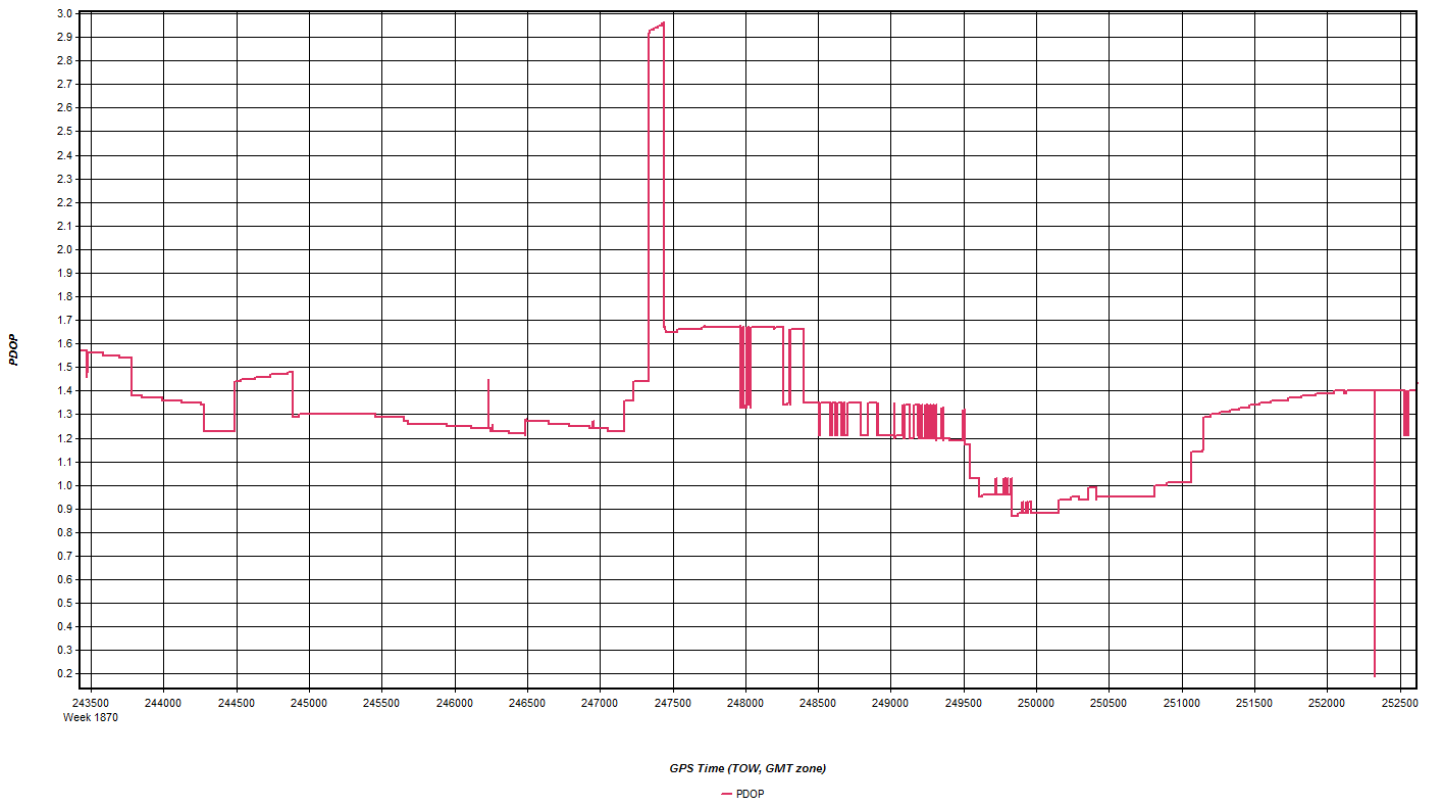


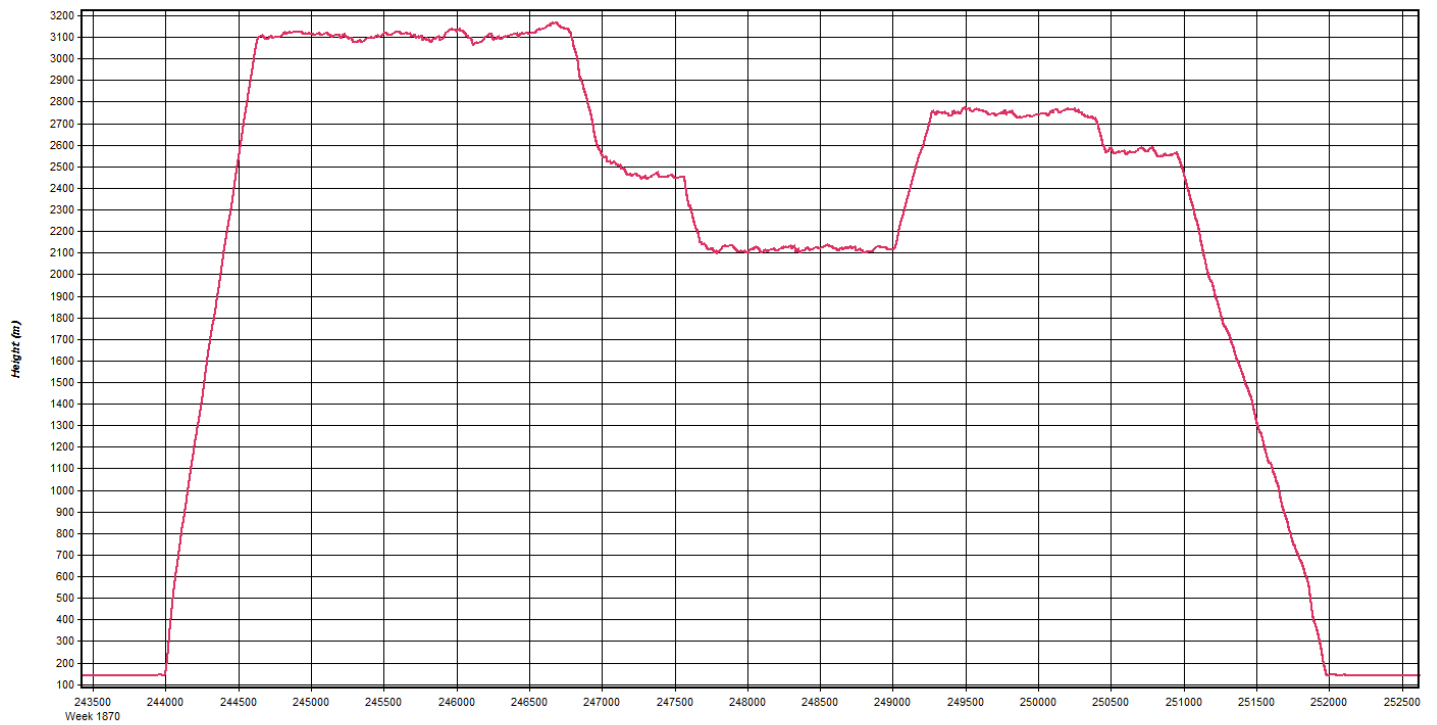
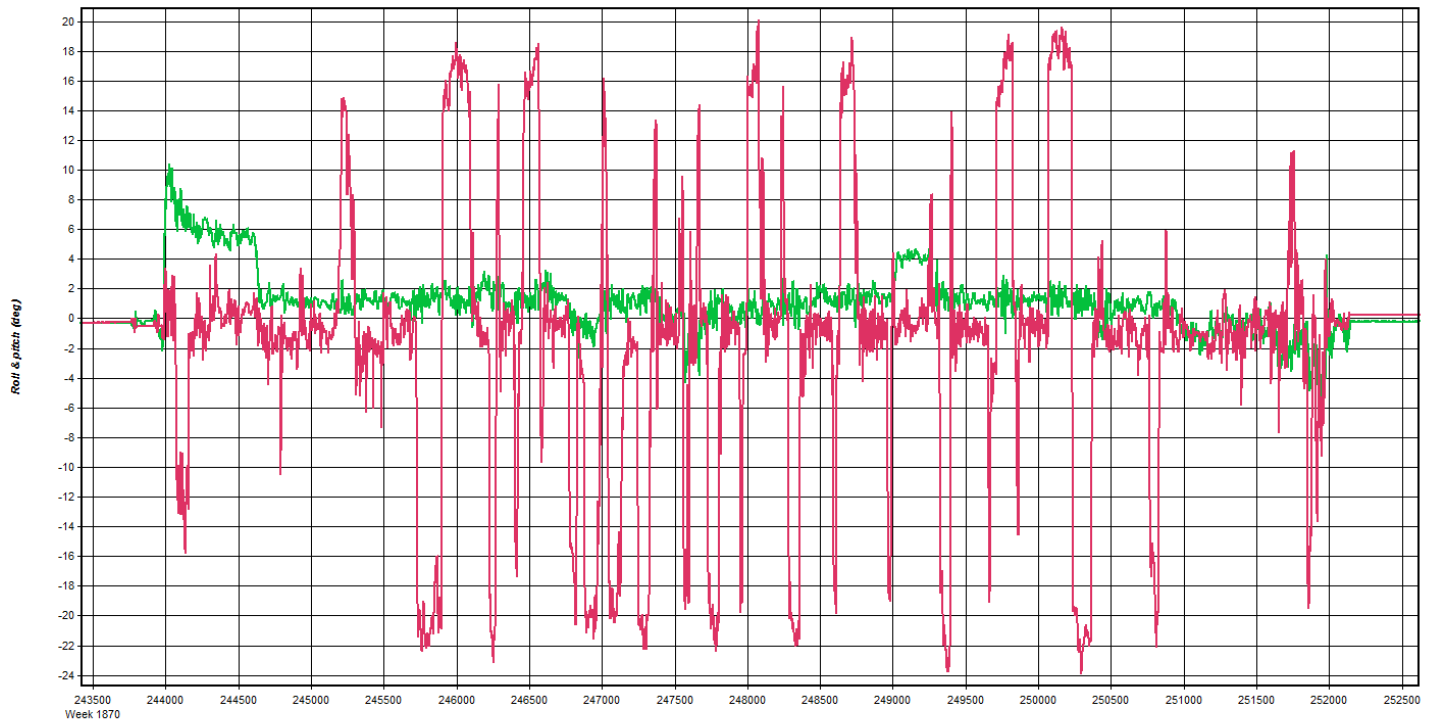


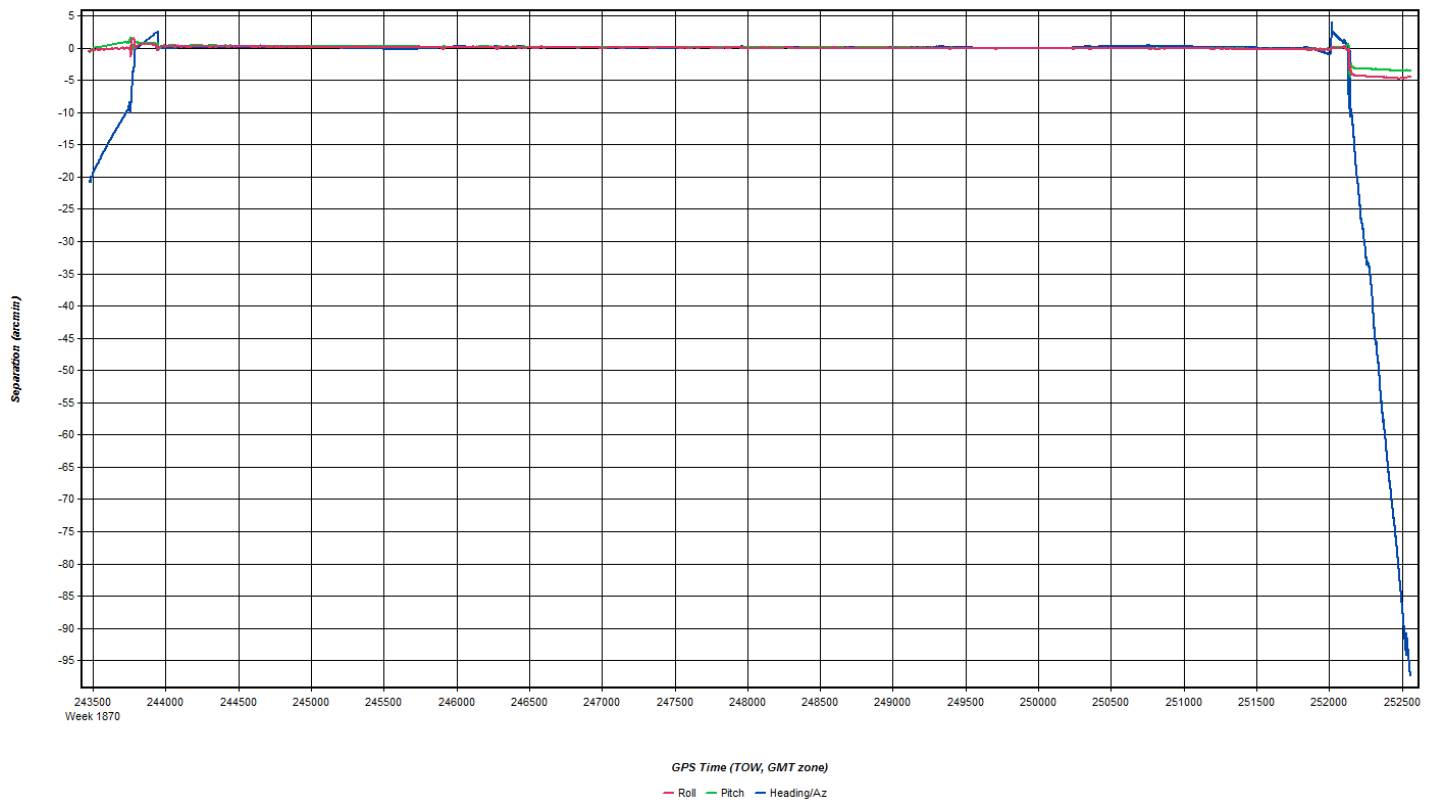
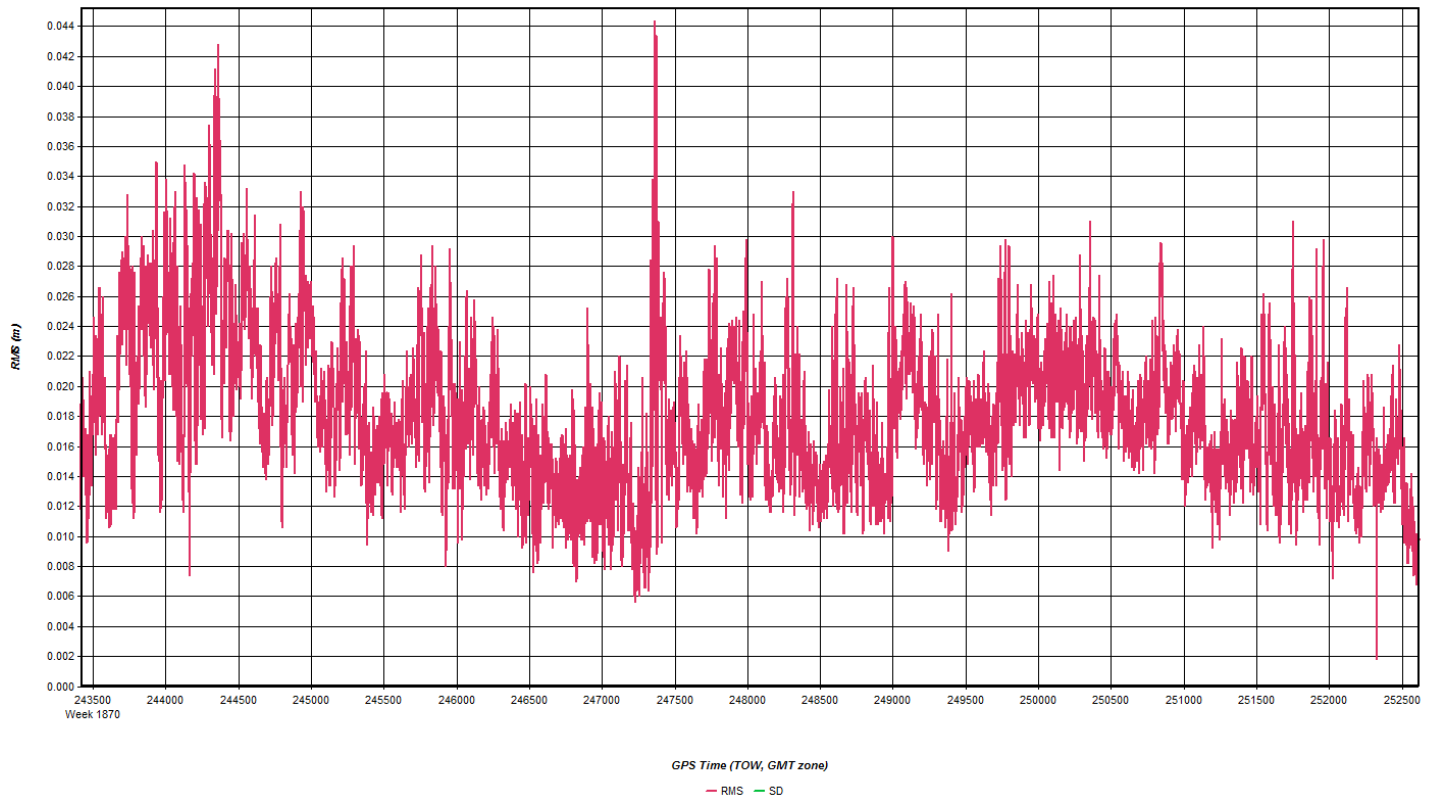
GPS Time (TOW, GMT zone)
— East — North — Up

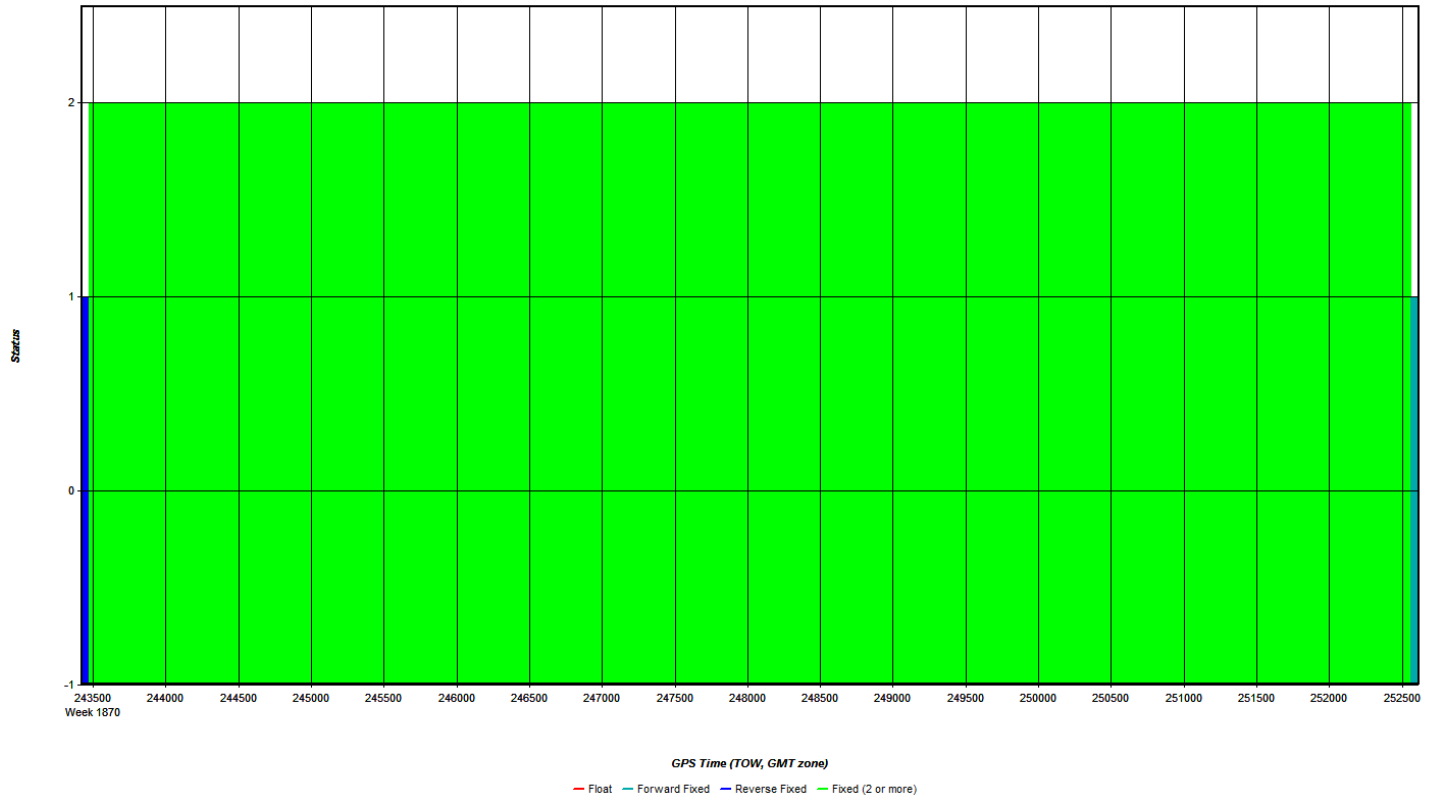


GPS Time (TOW, GMT zone)
— Heading/Azimuth — GPS-COG









Coordinate/Antenna Settings

Master Remote

Base Station
 1: VTD7 Name: VTD7 Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\RAW_Data\SK9Y\

Coordinates
 Latitude: North 44 23 52.31066 Compute from PPP
 Longitude: West 72 01 32.39267 Enter Grid Values
 Ellipsoidal height: 166.528 m Enter MSL Height
 Datum: NAD83(2011) 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
 2: VTOX Name: VTOX Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\RAW_Data\SK9Y\

Coordinates
 Latitude: North 44 00 28.16564 Compute from PPP
 Longitude: West 72 06 51.60957 Enter Grid Values
 Ellipsoidal height: 126.405 m Enter MSL Height
 Datum: NAD83(2011) 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

Base Station Log

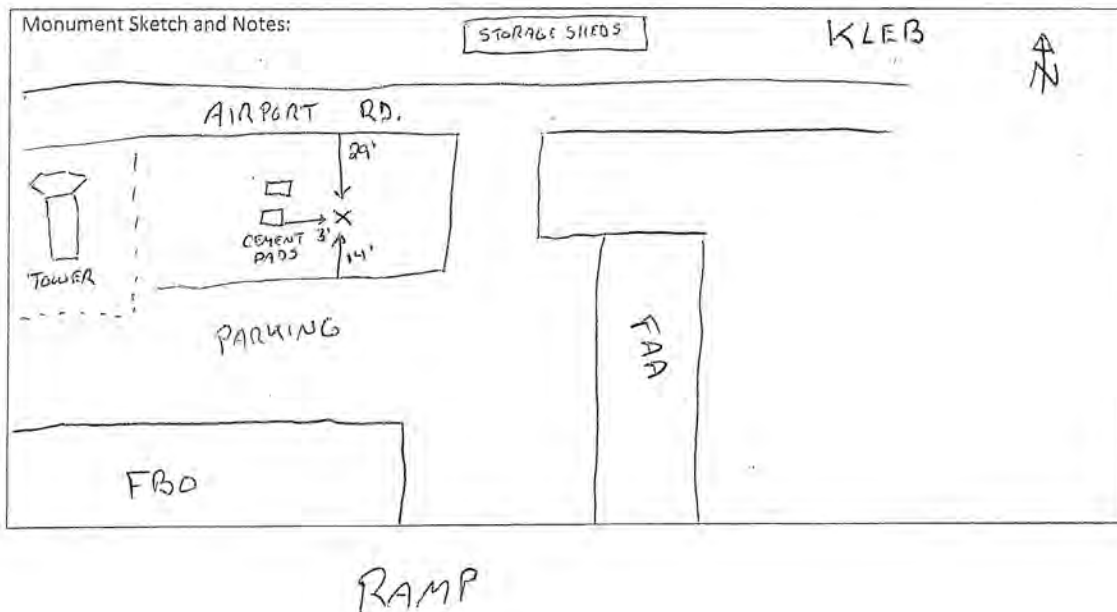
GPS OBSERVATION LOG

Station ID _____
 Project Number 26818
 Project Name USGS CT. RIVER
 Rcvr. Type NovAtel DL-V3-L1L2
 Rcvr. S/N 7-0141418
 Antenna Type NovAtel
 Antenna S/N NAE12110035

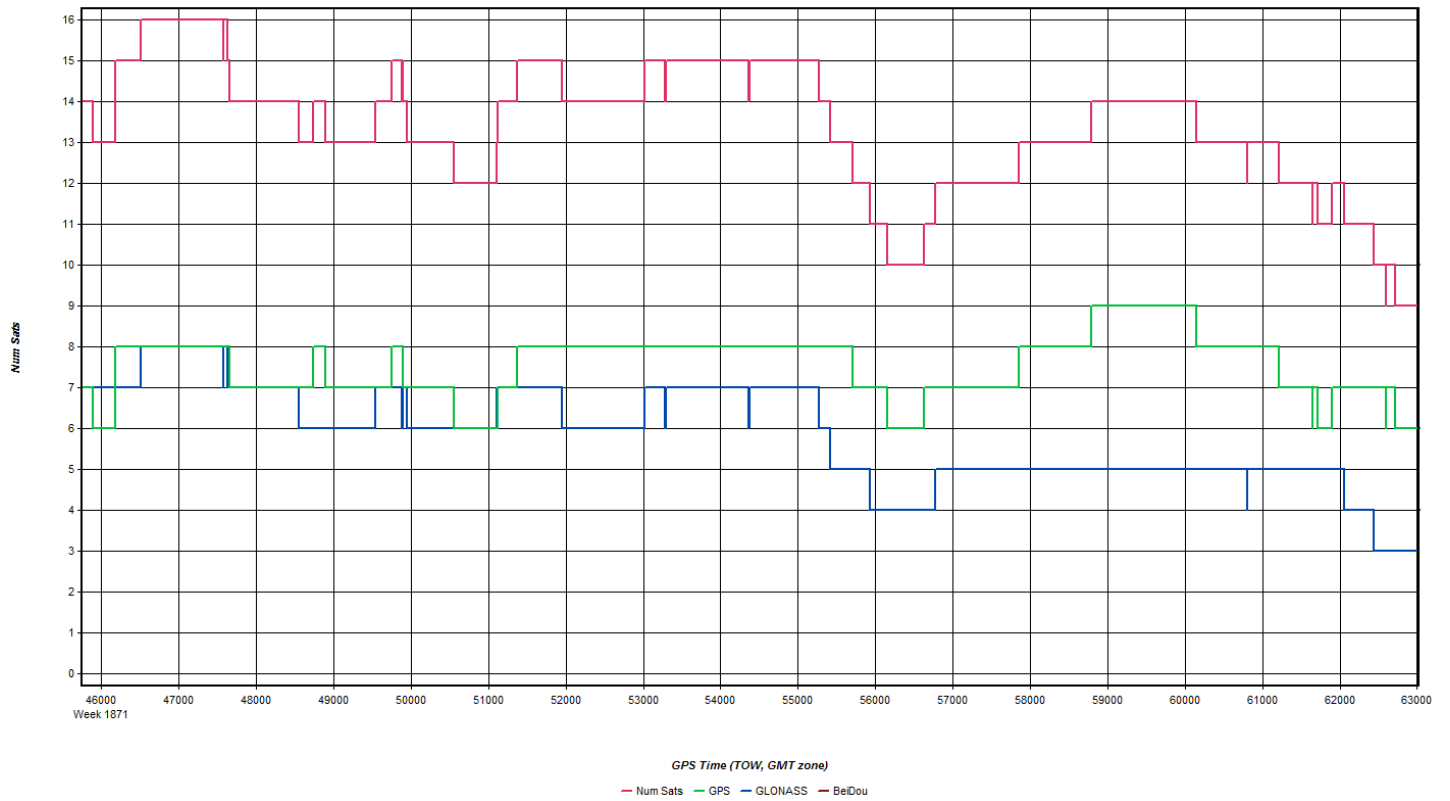
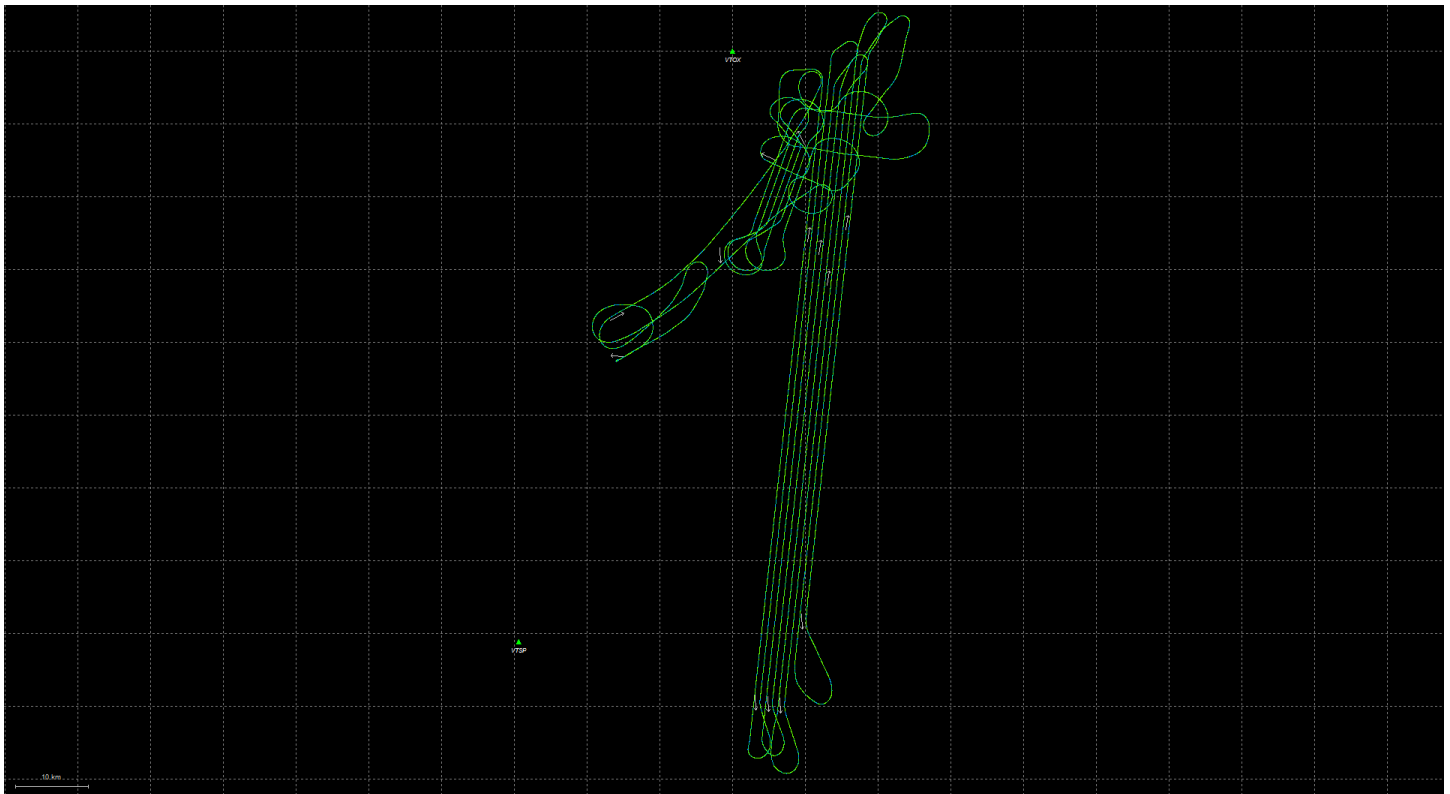
Date 11 / 10 / 2015
 Julian Date 315
 Start Time _____ : : 9:00 am
 Stop Time _____ : : 5:01 pm
 Rcvr. File Name 00083140.PDC
 Observer Peter Tscharnen

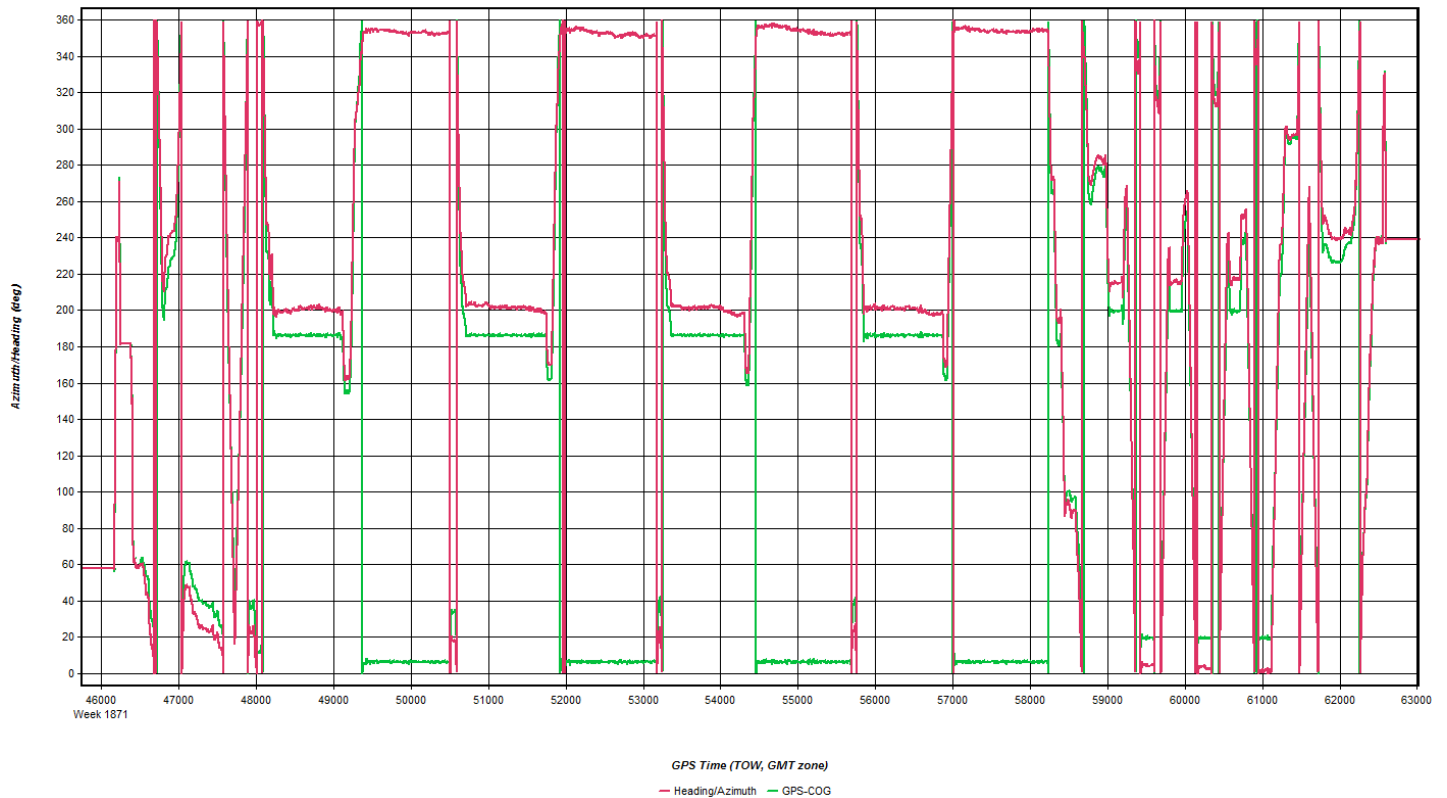
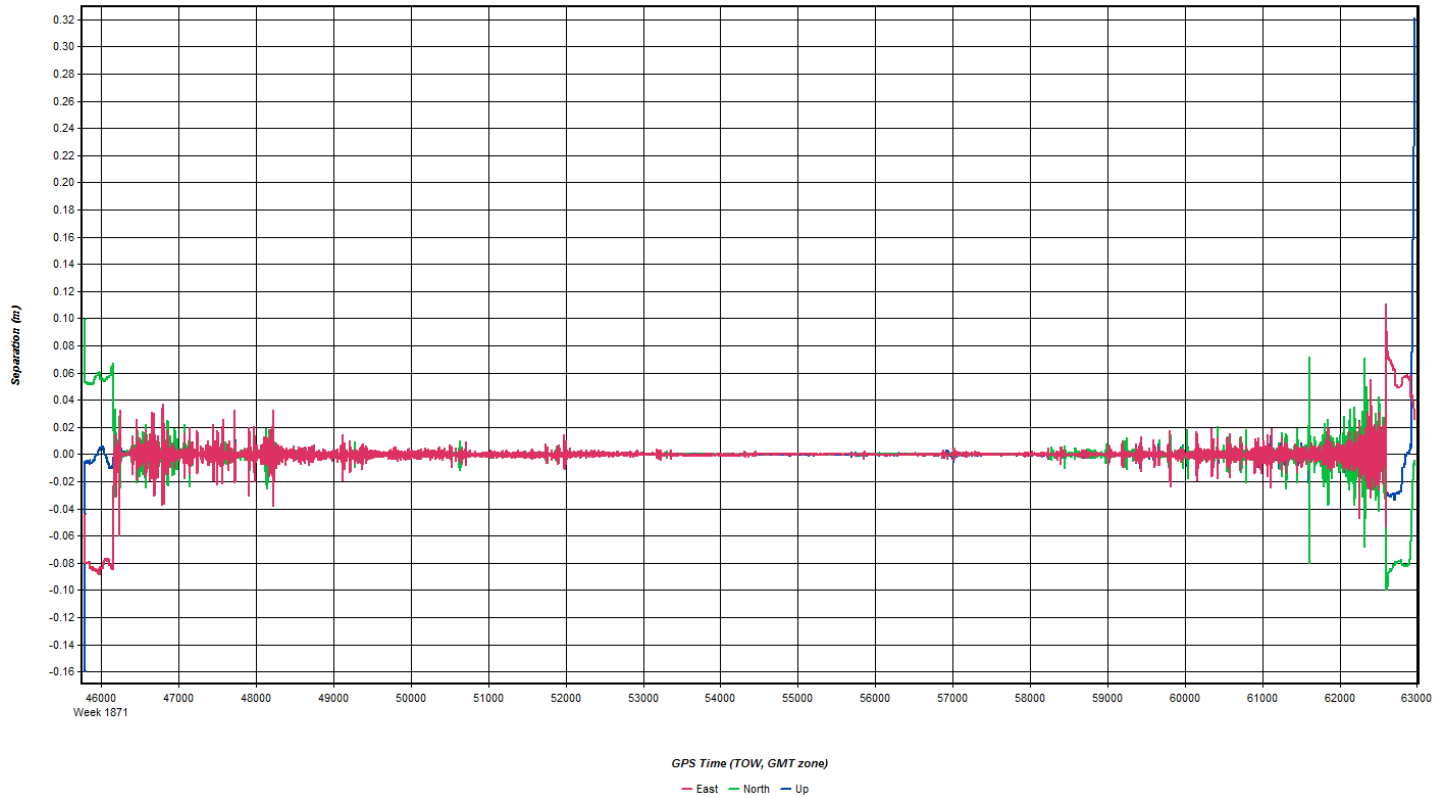
New or Existing Mon. New Existing
 Photo Taken: Yes No
 Monument Type: _____
 Spike PK Nail AM Washer
 Other _____

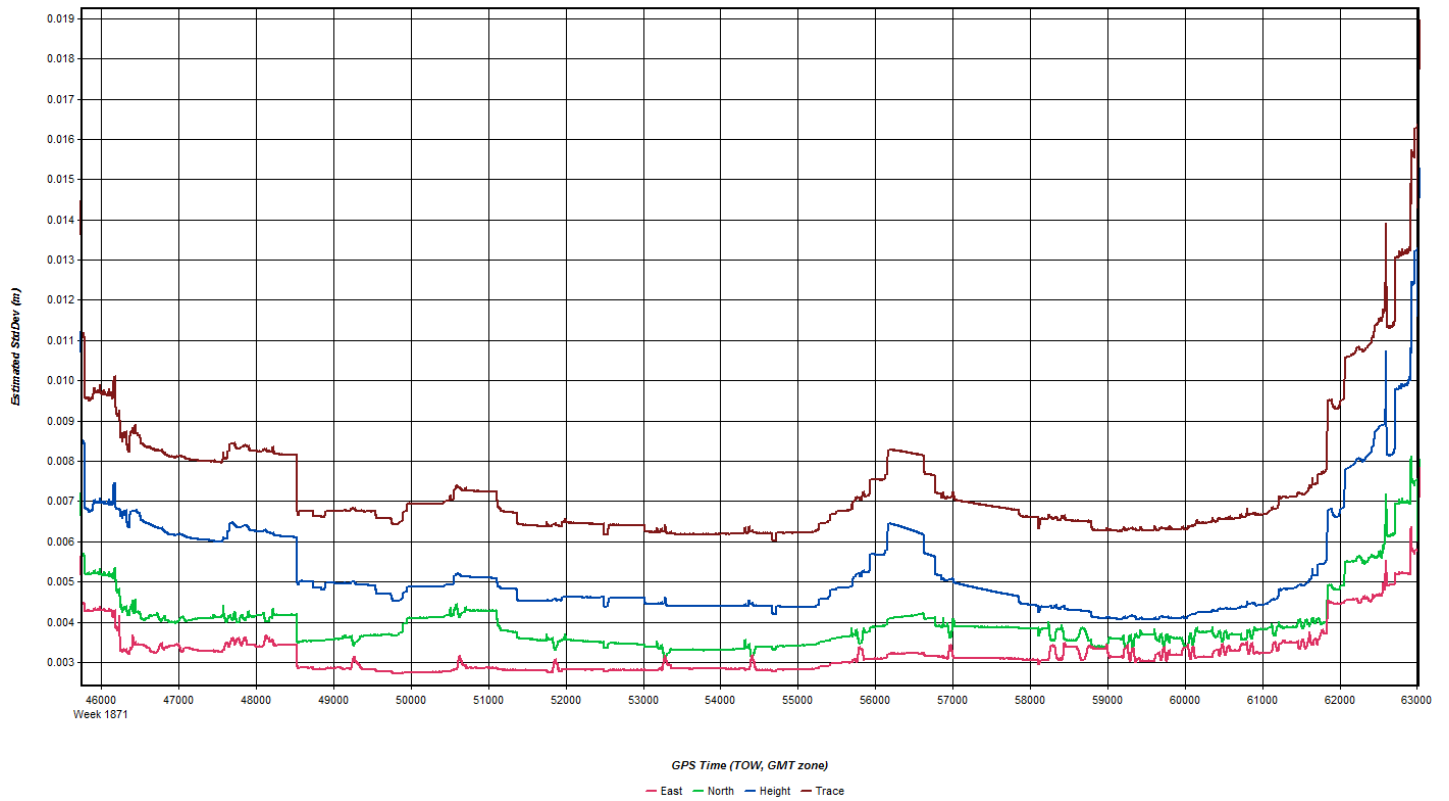
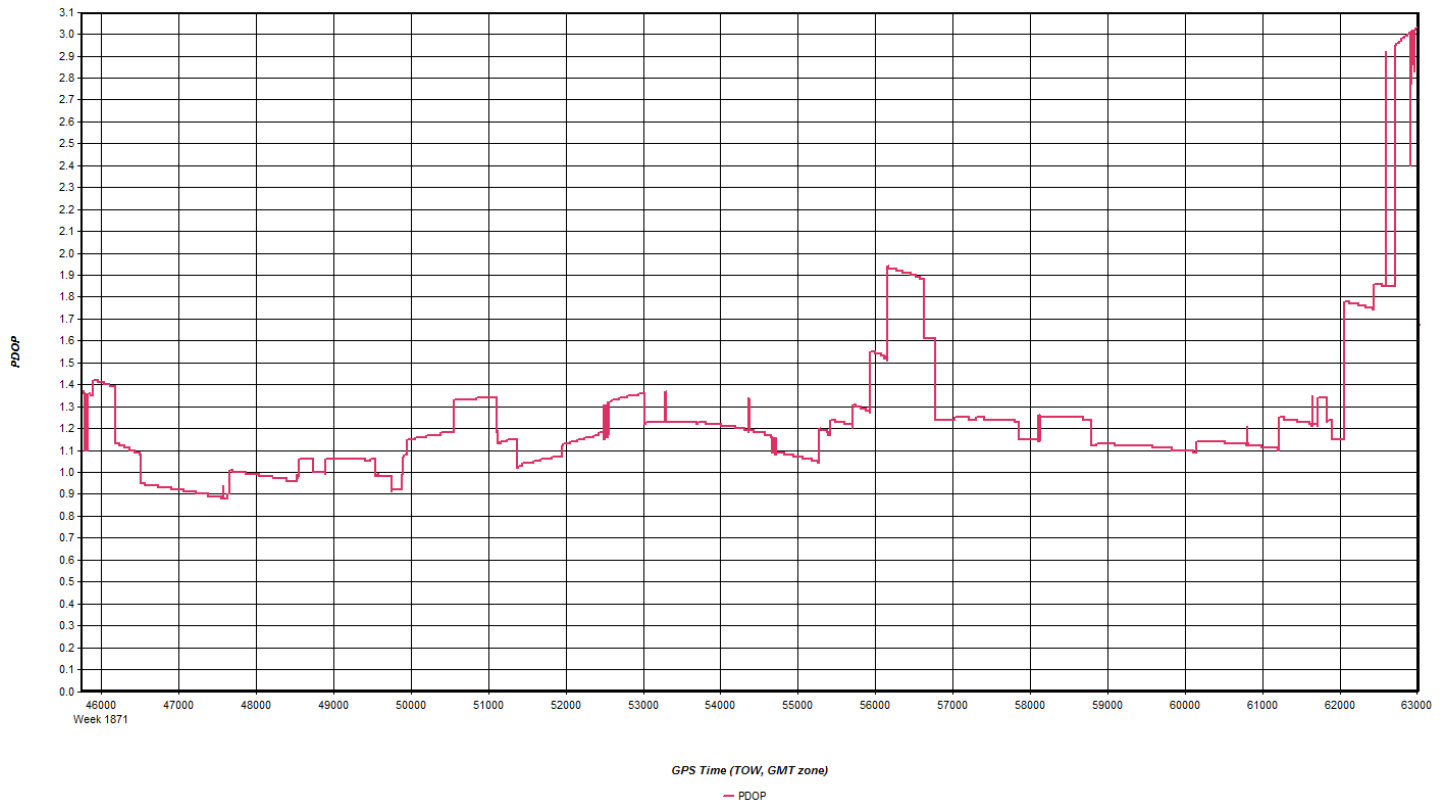
Height Readings:
 (Top of Monument to Bottom of Ground Plane)
 Start 2 M. 3.2 Ft.
 Stop 2 M. 3.2 Ft.
 Mean 2 M. 3.2 Ft.

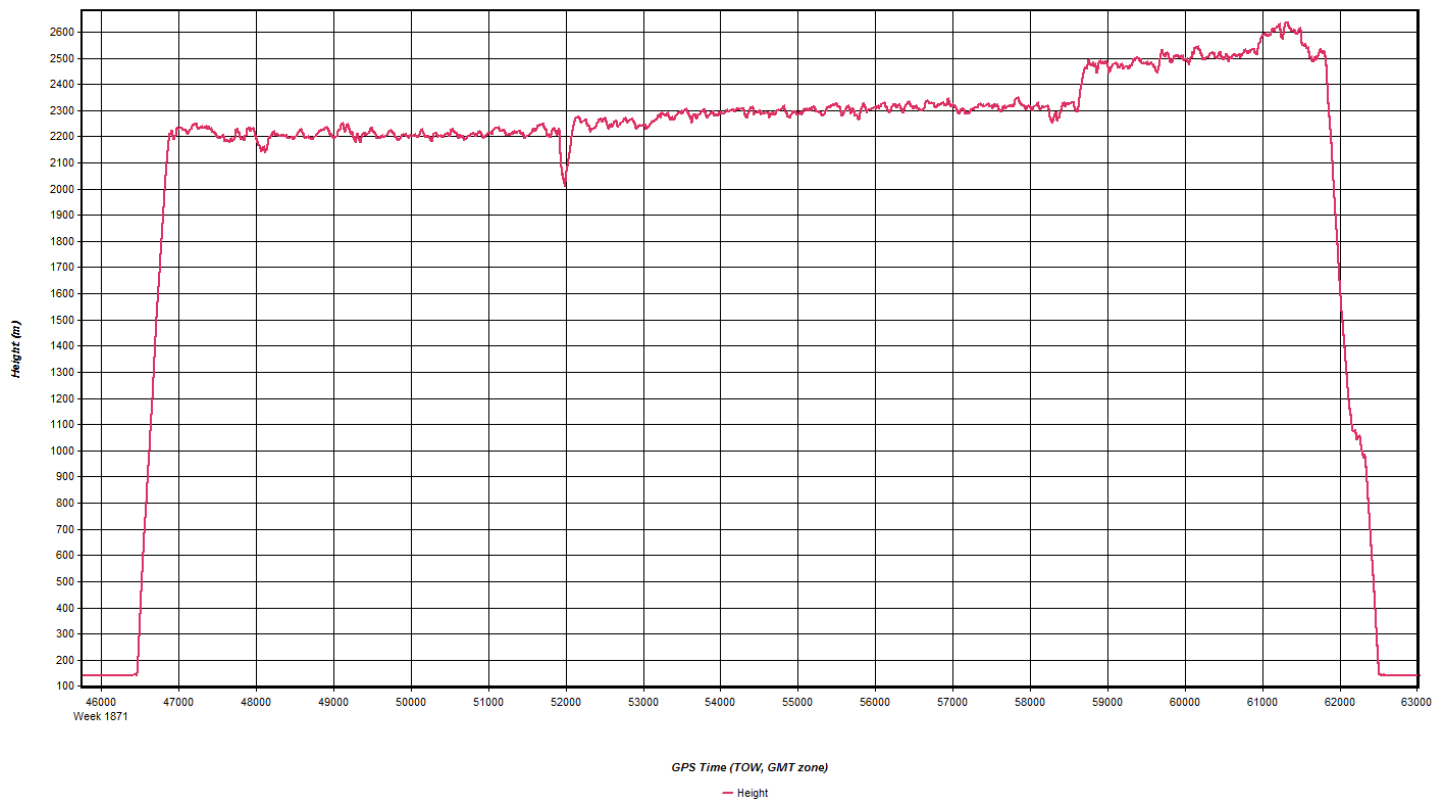
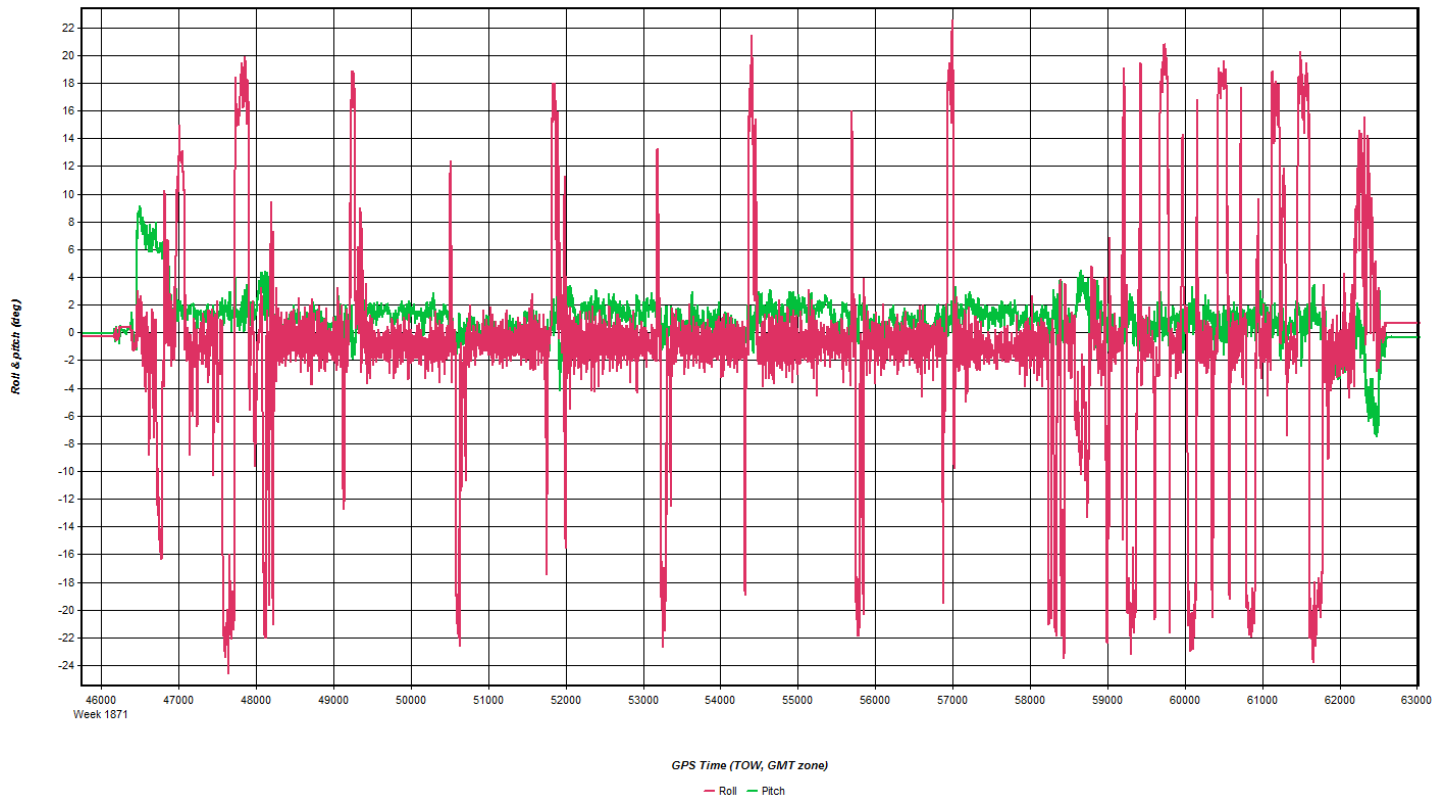


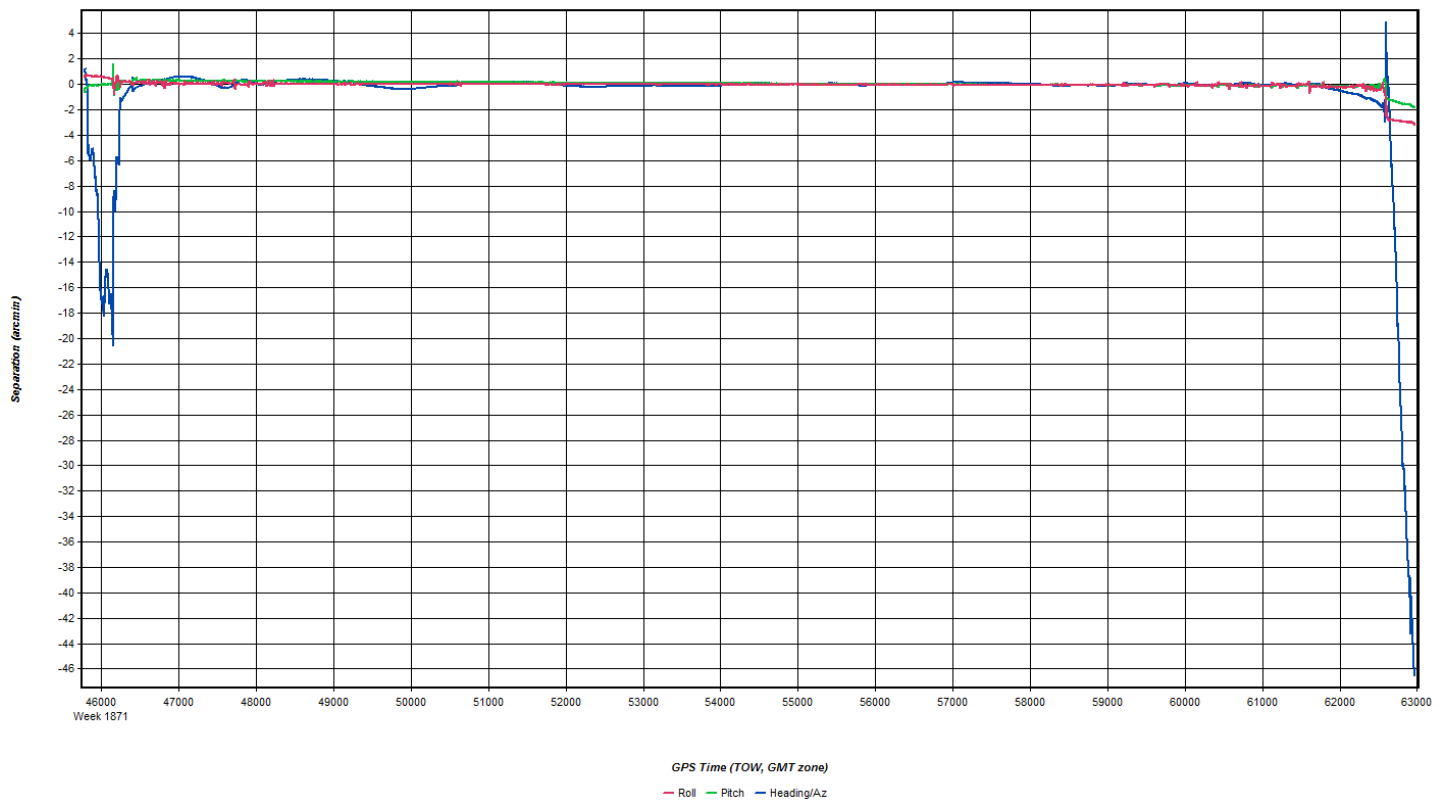
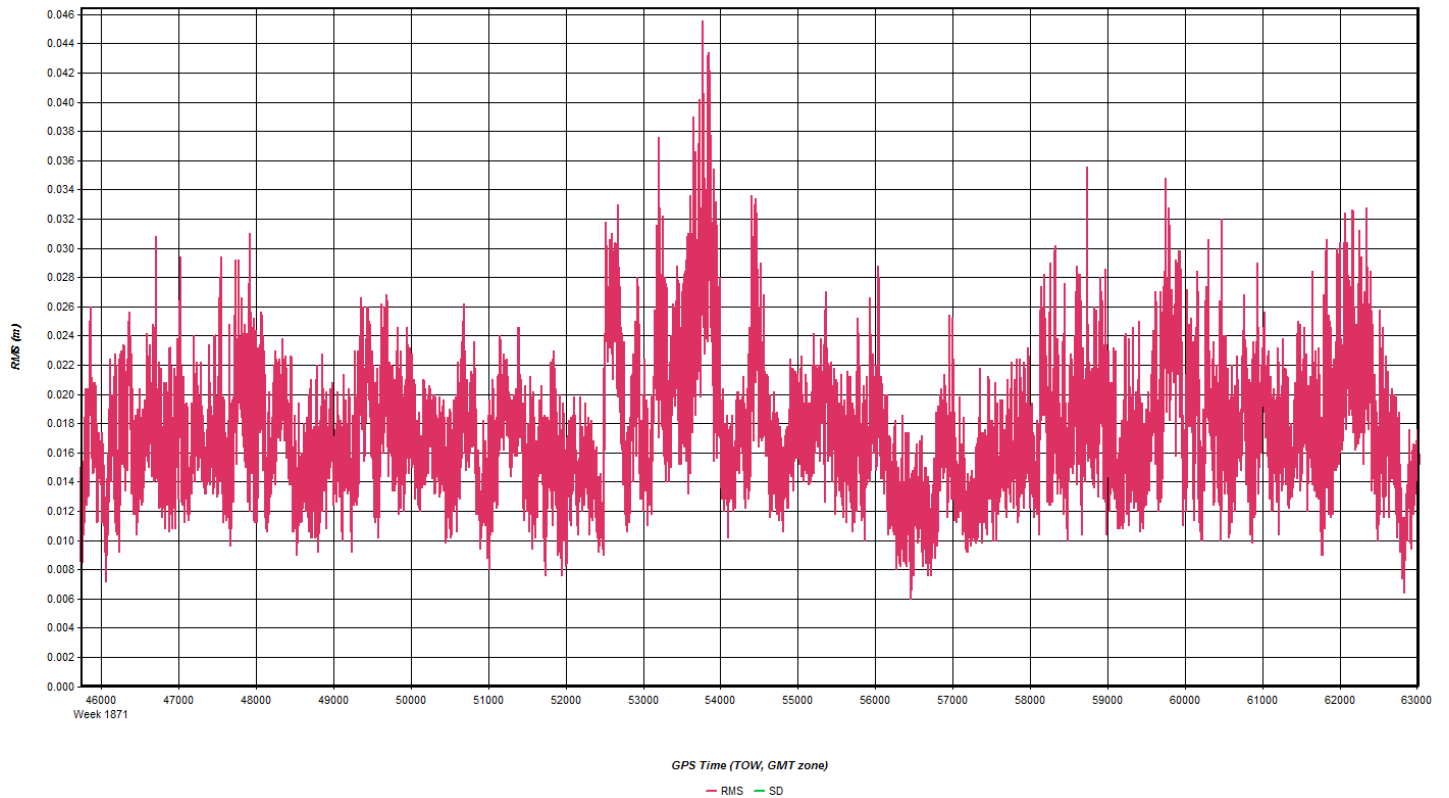
Nov 15, 2015-A (N22GE, SN7178)

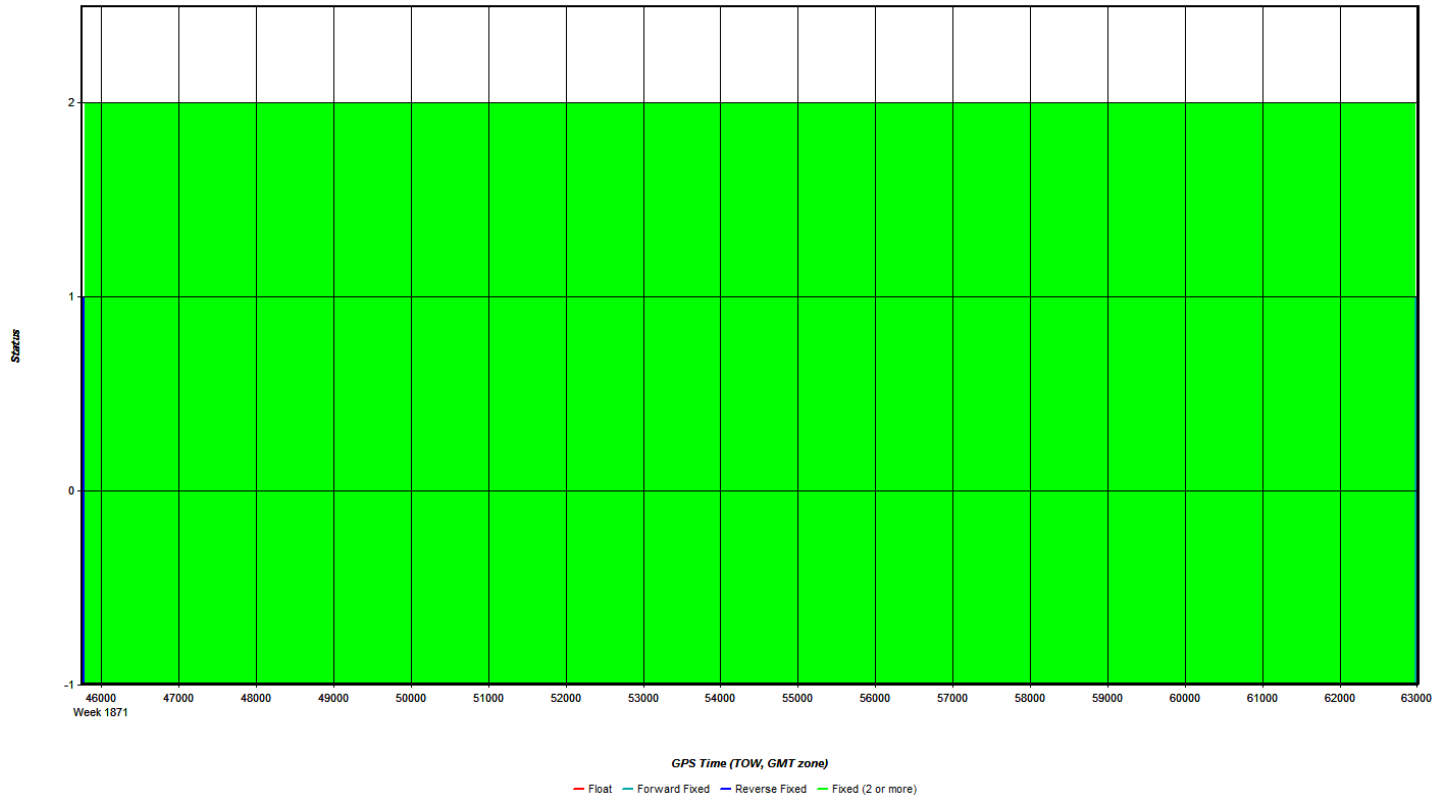












Coordinate/Antenna Settings

Master Remote

Base Station
 1: VTOX Name: VTOX Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\RAW_Data\NS6R

Coordinates
 Latitude: North 44 00 28.16564 Compute from PPP
 Longitude: West 72 06 51.60957 Enter Grid Values
 Ellipsoidal height: 126.405 m Enter MSL Height
 Datum: NAD83(2011) 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
 2: VTSP Name: VTSP Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\RAW_Data\NS6R

Coordinates
 Latitude: North 43 16 53.24114 Compute from PPP
 Longitude: West 72 28 39.23841 Enter Grid Values
 Ellipsoidal height: 156.441 m Enter MSL Height
 Datum: NAD83(2011) 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

Base Station Log

GPS OBSERVATION LOG

Station ID _____	Date <u>20 11 / 15 / 15</u>
Project Number <u>20818</u>	Julian Date _____
Project Name <u>USGS CT. RIVER</u>	Start Time <u>7 : 30 : AM :</u>
Revr. Type <u>NovAtel DL-V3-L1L2</u>	Stop Time <u>1 : 55 : PM :</u>
Revr. S/N <u>7-0141418</u>	Revr. File Name <u>00083190.PDC</u>
Antenna Type <u>NovAtel</u>	Observer <u>Joe Howell</u>
Antenna S/N <u>NAE12110035</u>	

New or Existing Mon. New Existing
 Photo Taken: Yes No
 Monument Type: _____
 Spike PK Nail AM Washer
 Other _____

Height Readings:
(Top of Monument to Bottom of Ground Plane)

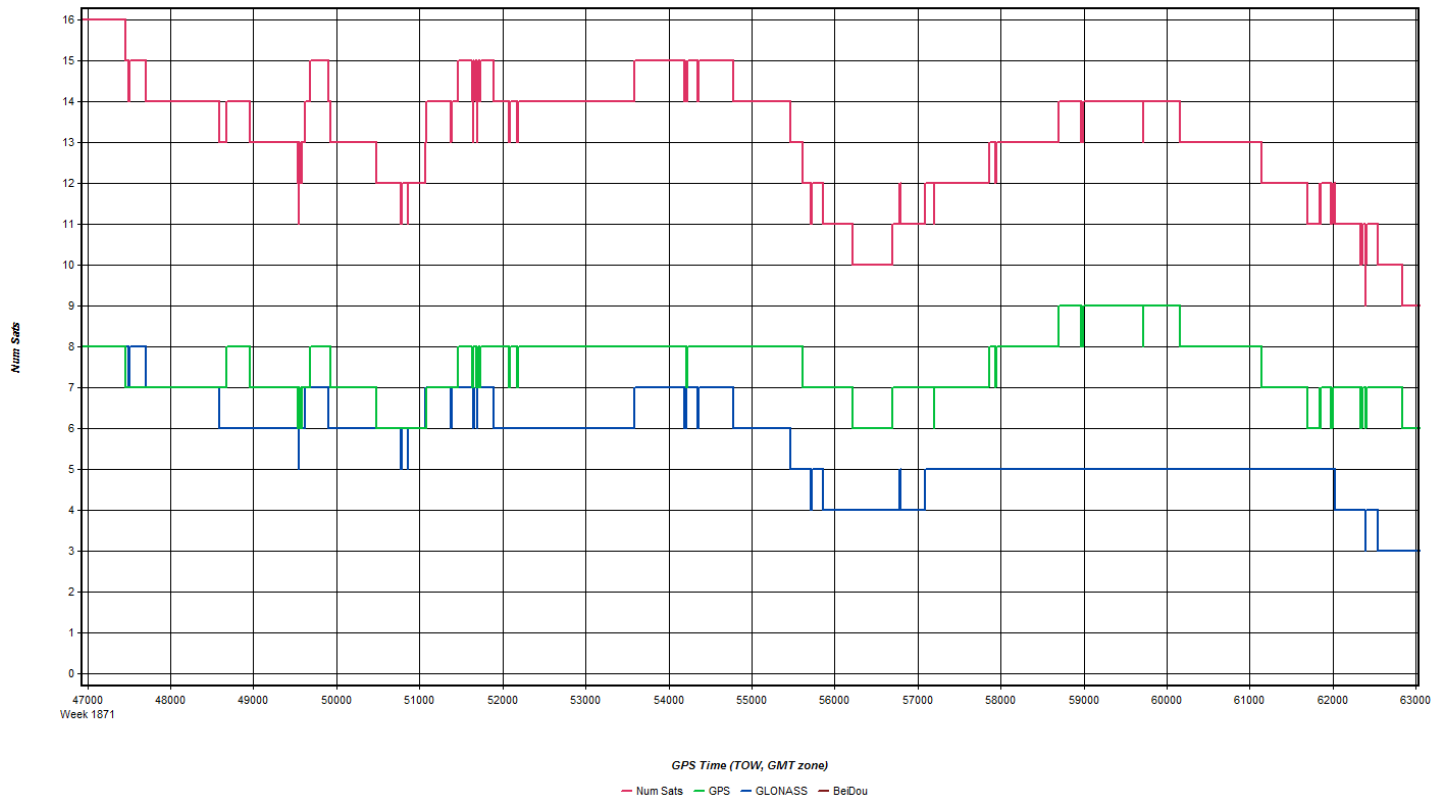
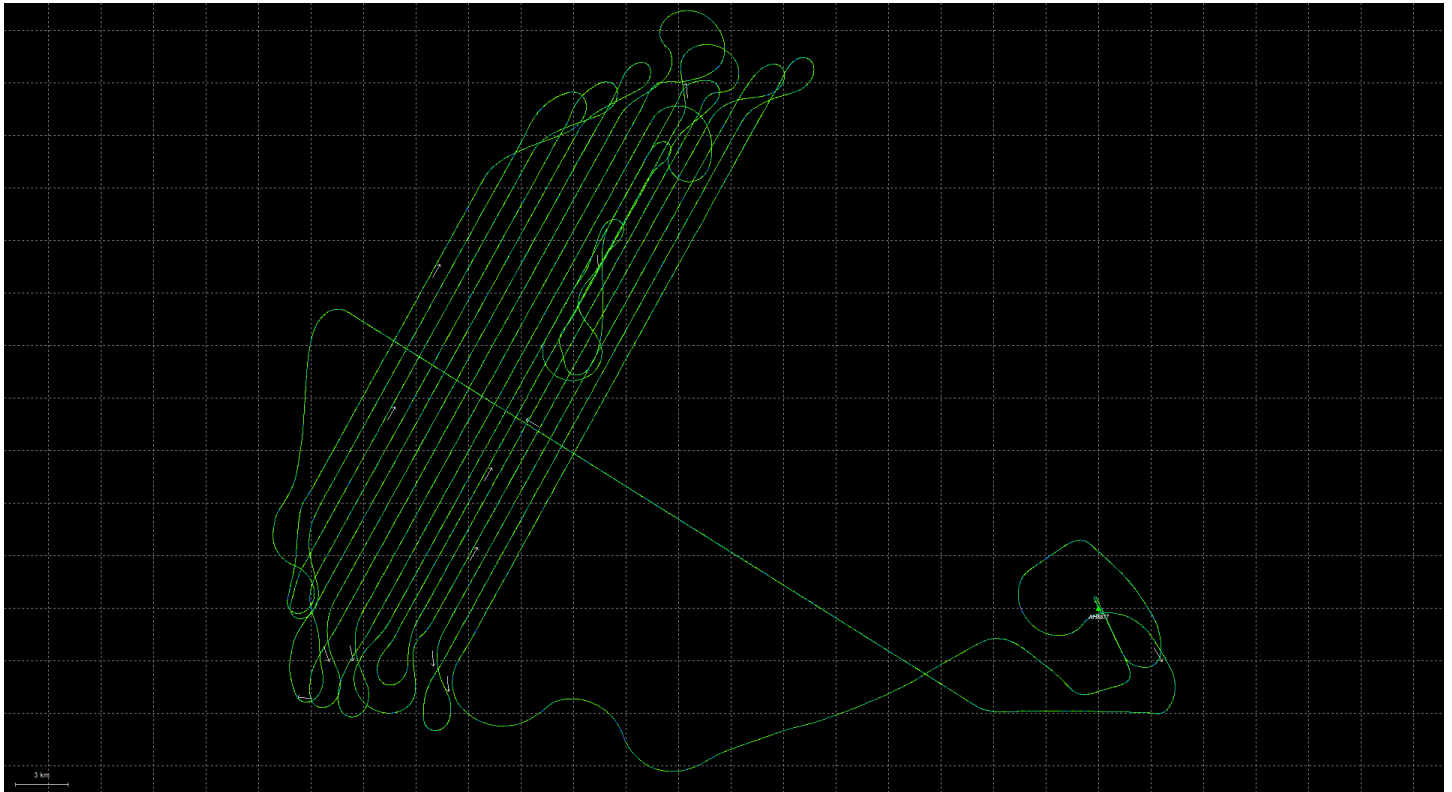
Start	<u>2.0</u>	M.	_____	Ft.
Stop	<u>2.0</u>	M.	_____	Ft.
Mean	<u>2.0</u>	M.	_____	Ft.

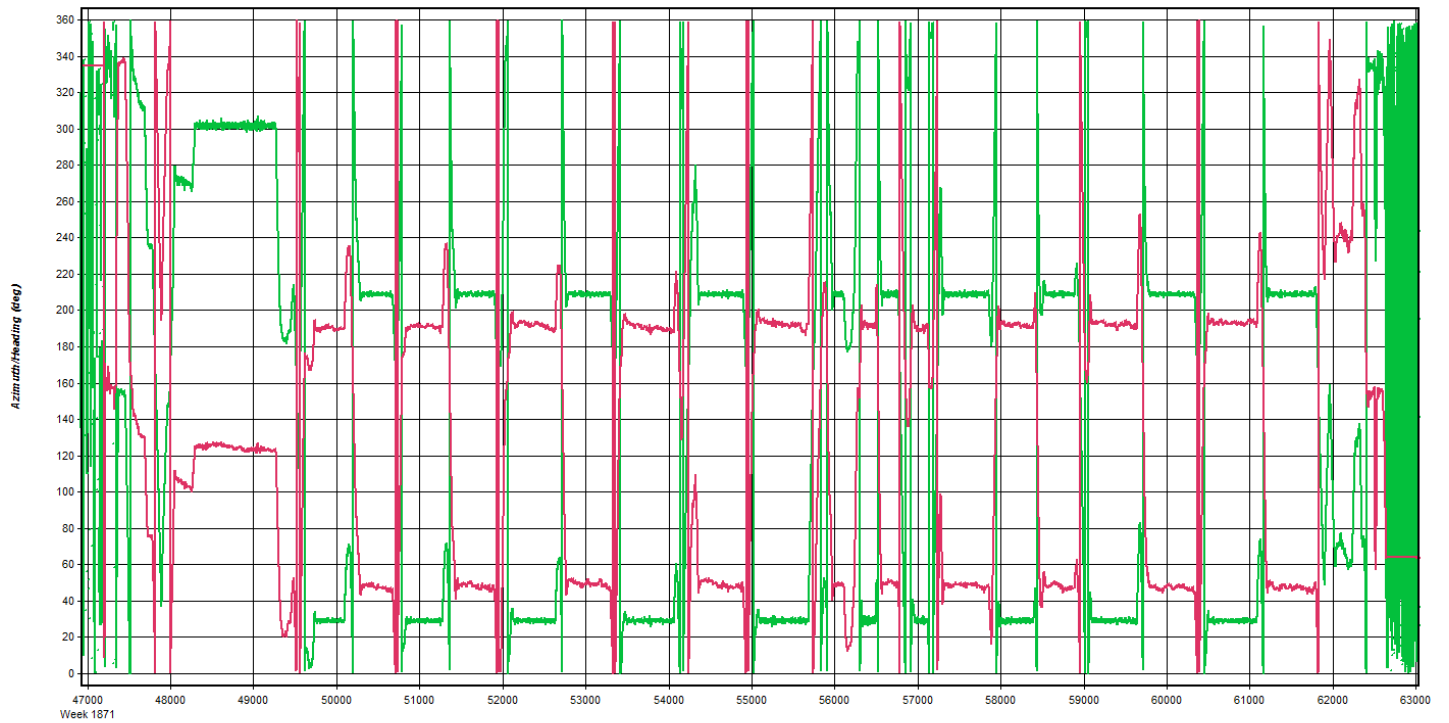
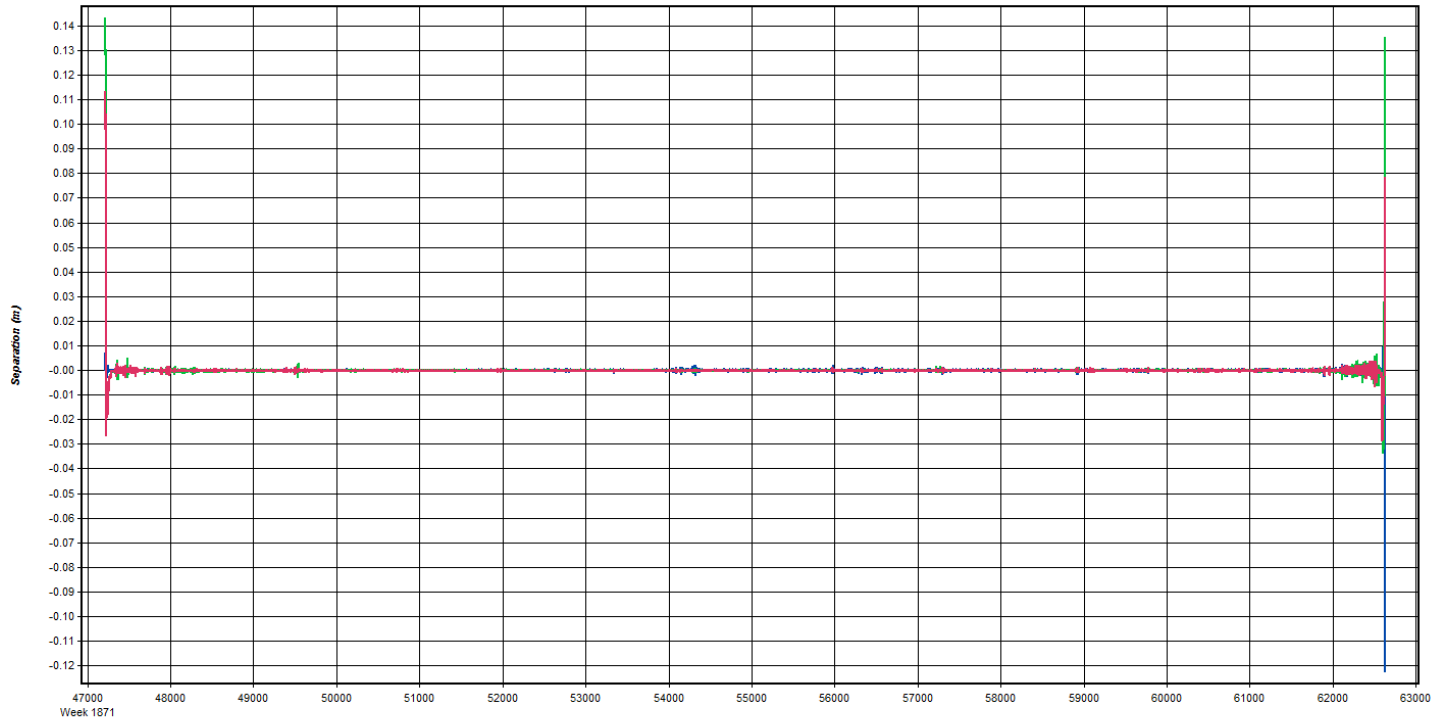
Monument Sketch and Notes: KLEB

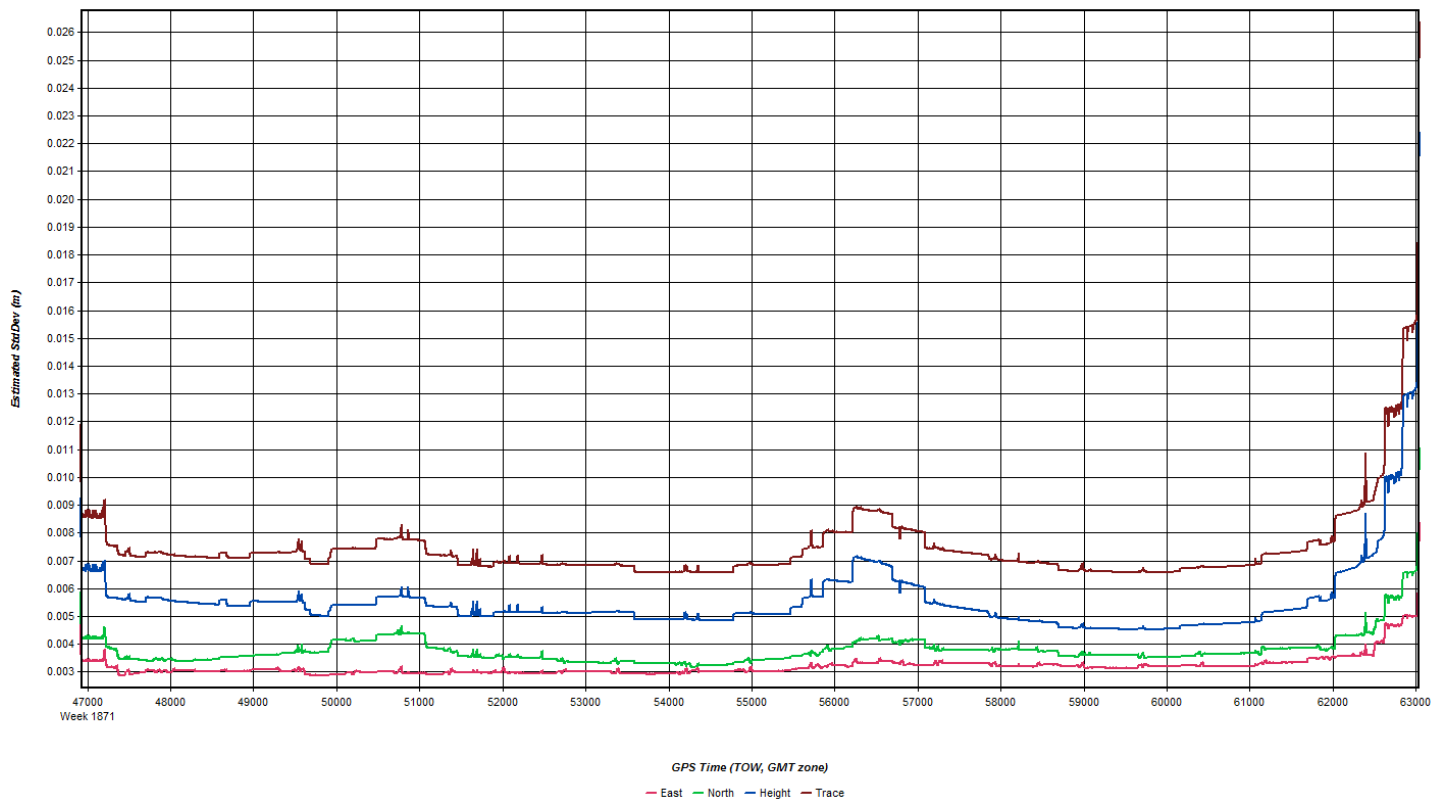
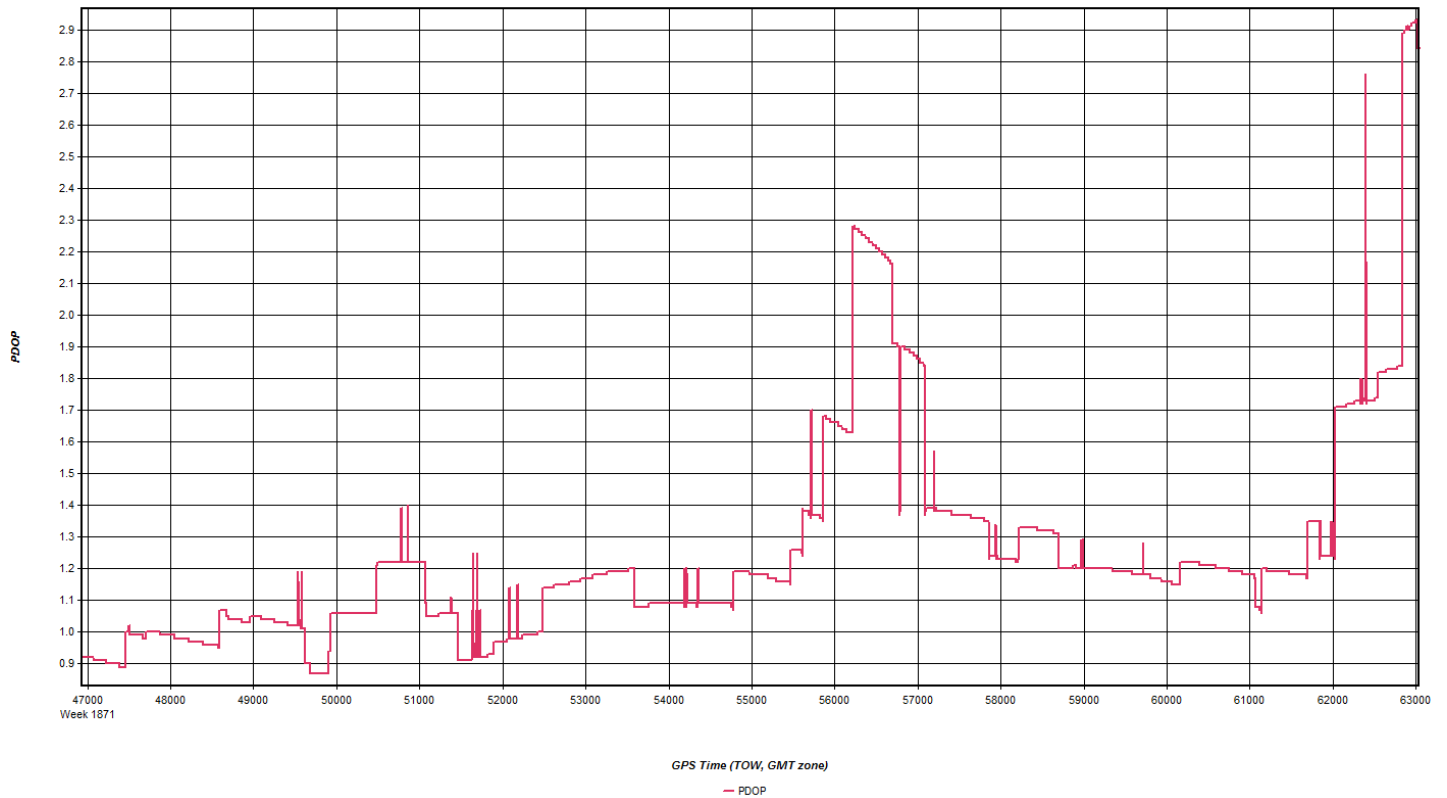
The sketch shows a site layout with 'AIRPORT RD.' at the top. To the right are 'STORAGE SHEDS'. A 'TOWER' is indicated on the left. A 'PARKING' area contains a monument marked with an 'X', with dimensions '21'' and '14'' shown. Below the parking area are 'FBO' and 'FAA' buildings. At the bottom is a 'RAMP'. A north arrow is drawn in the top right corner.

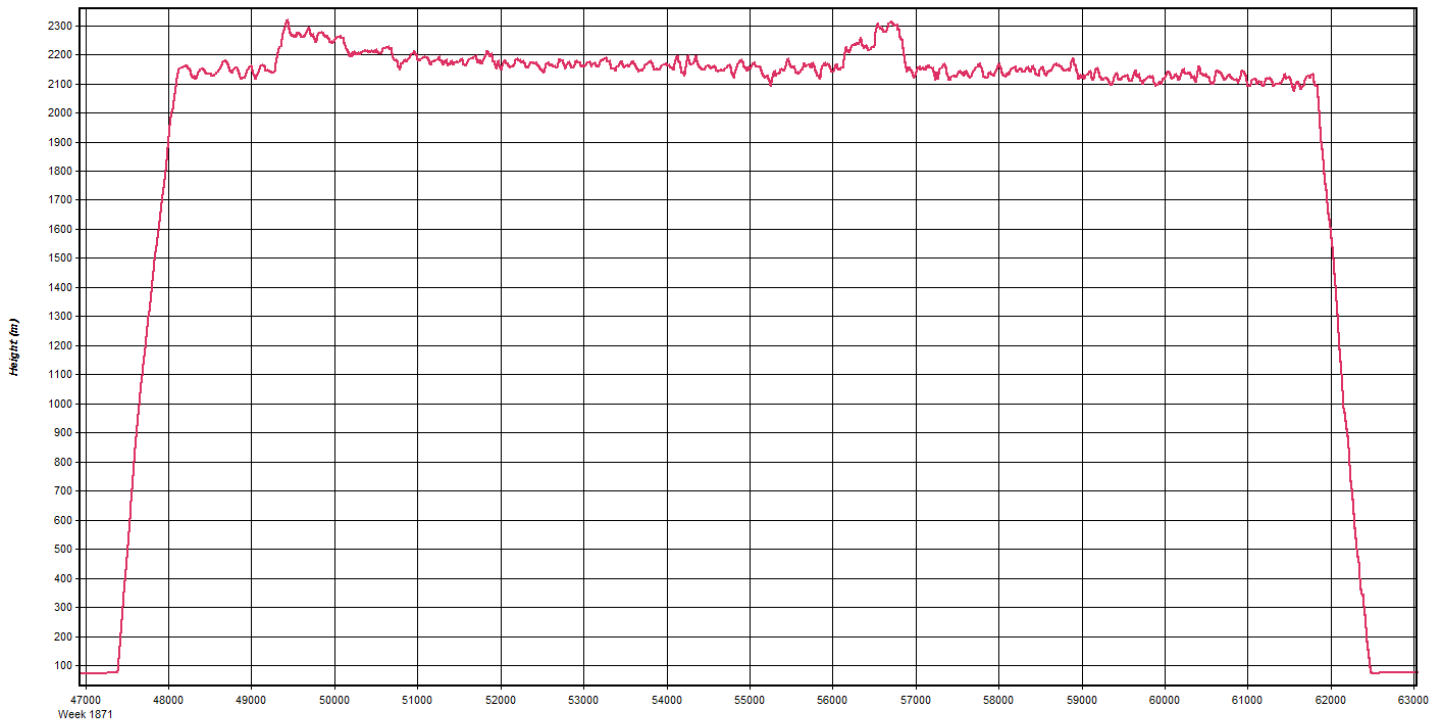
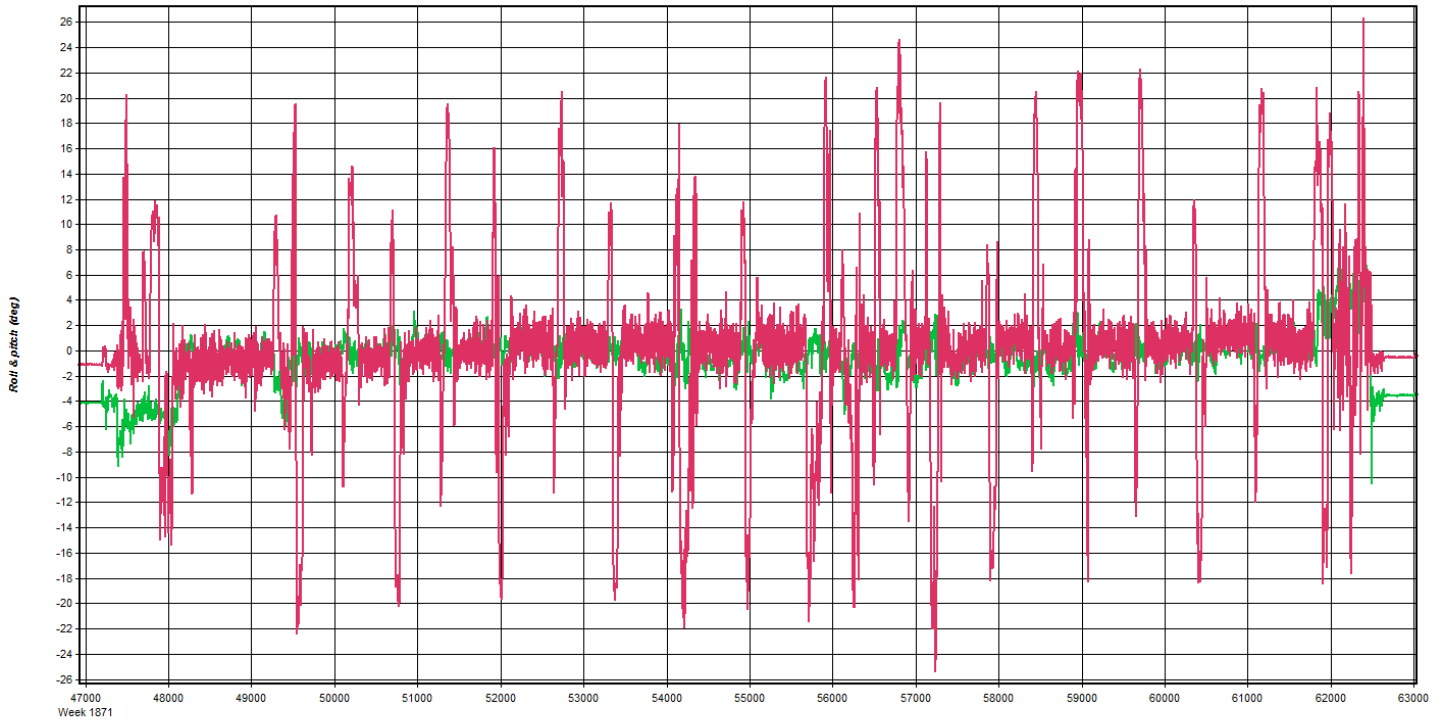
Scanned by CamScanner

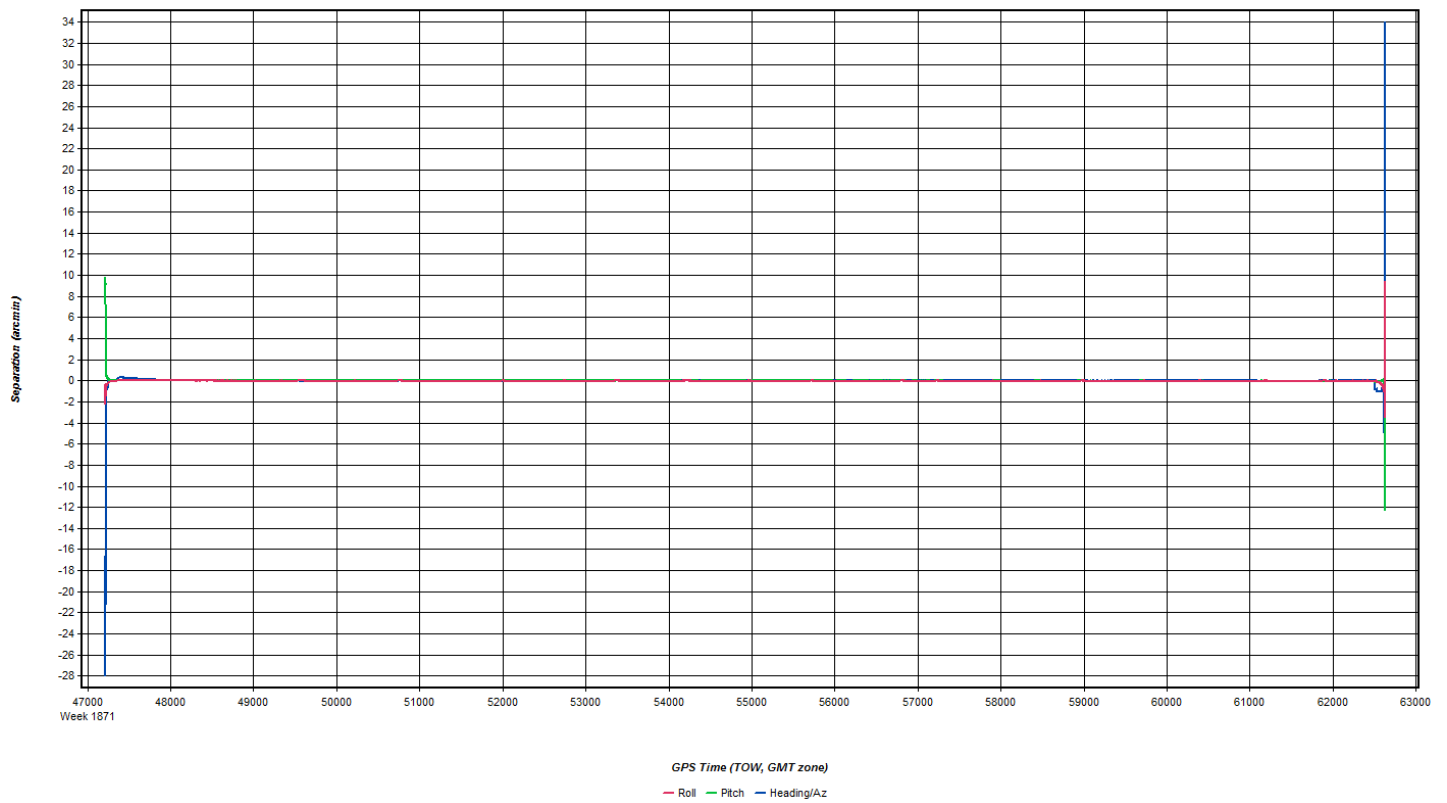
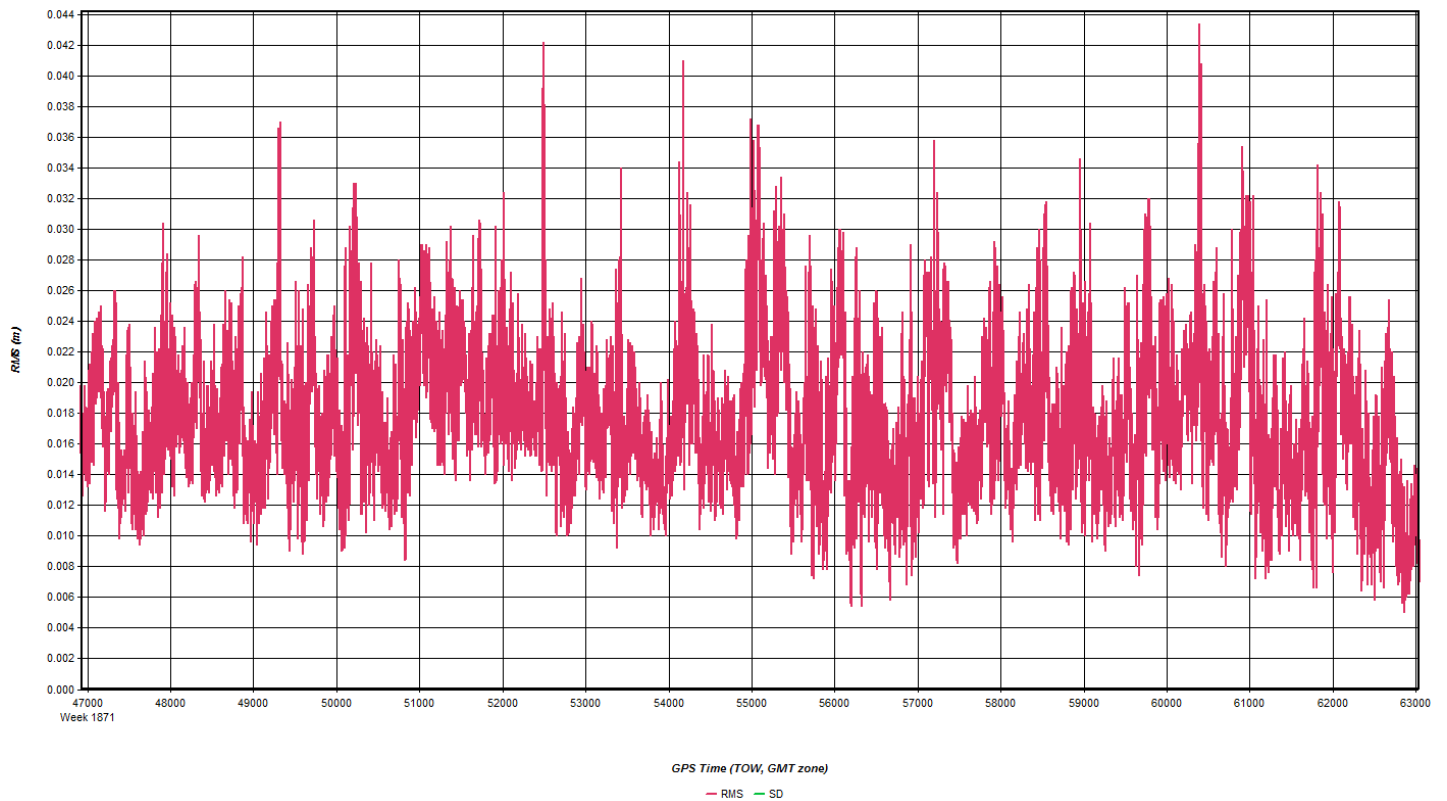
Nov 15, 2015-A (N799AC, SN7169)

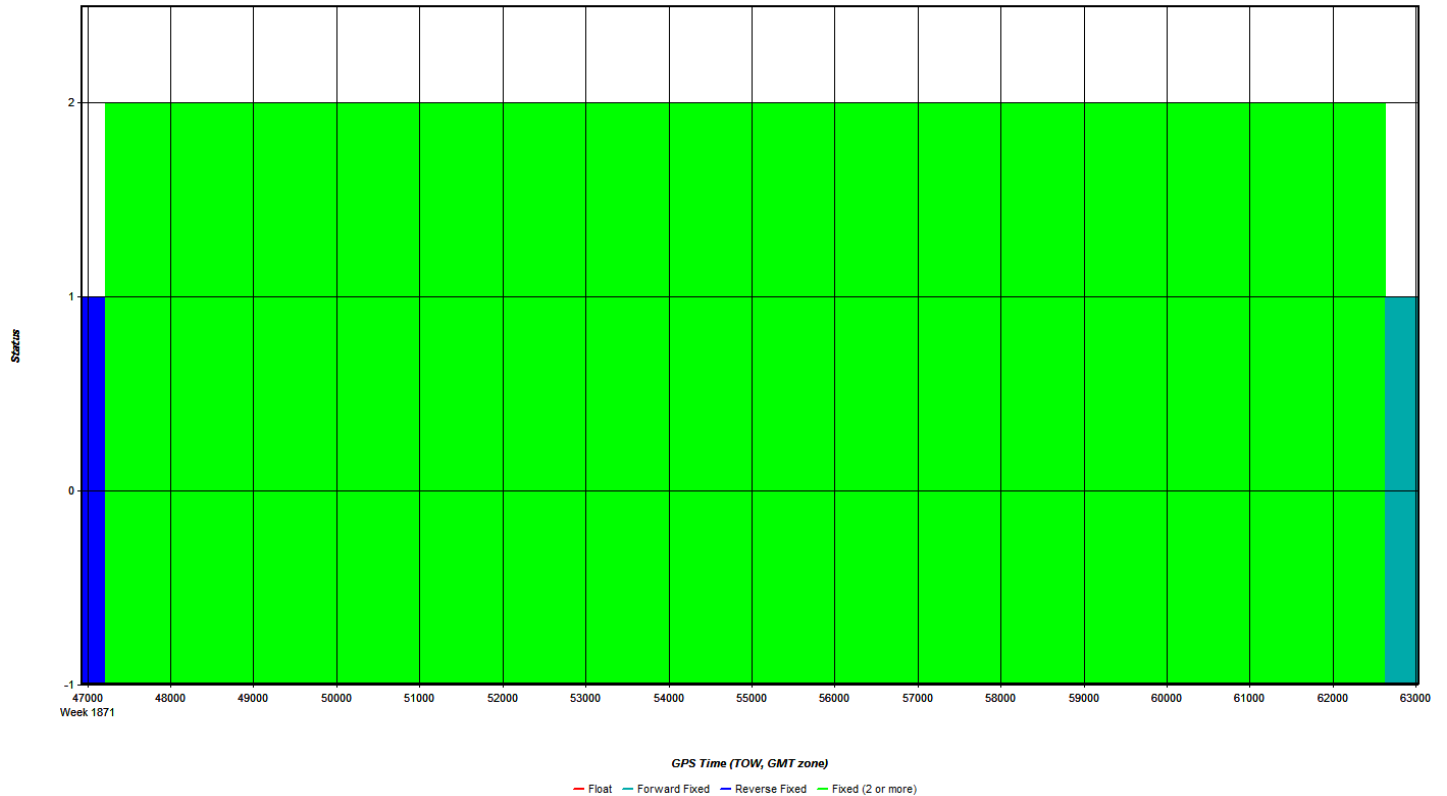












Coordinate/Antenna Settings

Master Remote

Base Station
 1: AH8877 Name: AH8877 Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\RAW_Data\R077\

Coordinates
 Latitude: North 43 12 07.23201 Compute from PPP
 Longitude: West 71 30 20.69798 Enter Grid Values
 Ellipsoidal height: 74.193 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

Antenna Height
 From station file: TRMR10, NONE View STA File
 Antenna profile: TRMR10 Info
 Measured height: 2.050 m
 ARP to L1 offset: 0.128 m
 Applied height: 2.178 m
 Measured to:
 ARP
 L1 Phase Centre
 Compute From Slant

OK Cancel


Flight Log

LIDAR Daily Log													
Field Crew		Project #		TBA		Lever Arm		GPS (m)		X, Y, Z			
RCD S DRIVE 013		Quantum		Location		Concord, NH		-0.110 0.210 -1.220					
MISSION 1		Aircraft		SENSOR NAVIGATION FILE NAME									
ALS70		N789AC		20151115_125247									
Reflight	Line	Dir	Start	Stop	Total Time	FOV	Scan Rate	Pulse Rate Hz	Roll Comp	Mut Pulse (Y/N)	Altitude ellipsoid (ft)	Altitude ellipsoid (m)	Speed
3046	LDRT151115	132500	13:25:18	13:40:56	0:15:38	38.7	43.0	136500	YES	N	2048	6722	
3001	LDRT151115	134603	13:49:20	13:54:44	0:05:24	38.5	44.9	136500	YES	N	1828	5001	
3002	LDRT151115	135832	13:58:50	14:04:28	0:05:38	38.5	44.9	136500	YES	N	1961	6434	
3003	LDRT151115	140727	14:07:46	14:14:26	0:06:41	38.5	44.9	136400	YES	N	1683	5522	
3004	LDRT151115	141729	14:17:46	14:25:00	0:07:14	38.5	44.9	136400	YES	N	1966	6450	
3005	LDRT151115	142846	14:29:02	14:37:11	0:08:09	38.6	44.9	136500	YES	N	1729	5673	
3006	LDRT151115	143947	14:40:04	14:48:14	0:08:10	38.6	44.9	136400	YES	N	1872	6142	
3007	LDRT151115	145132	14:51:49	15:00:55	0:09:06	38.6	44.9	136400	YES	N	1836	5080	
3008	LDRT151115	150607	15:06:24	15:14:54	0:08:30	38.6	44.9	136500	YES	N	1842	6043	
3009	LDRT151115	151617	15:18:35	15:27:53	0:09:18	38.6	44.9	136500	YES	N	1821	5302	
3010	LDRT151115	153900	15:35:18	15:35:01	0:00:43	38.6	44.9	136500	YES	N	1832	6339	
3011	LDRT151115	153908	15:38:54	15:41:19	0:02:25	38.6	44.9	136500	YES	N	1763	5764	
3012	LDRT151115	154308	15:43:25	15:45:57	0:02:32	38.6	44.9	136500	YES	N	1953	6407	
3013	LDRT151115	154908	15:49:25	15:51:56	0:02:31	38.6	44.9	136500	YES	N	1339	4333	
3014	LDRT151115	155501	15:55:18	16:04:02	0:08:44	38.6	44.9	136500	YES	N	1979	6493	
3015	LDRT151115	160630	16:06:47	16:13:13	0:06:26	38.6	44.9	136500	YES	N	1636	6024	
3016	LDRT151115	161534	16:15:52	16:21:15	0:05:23	38.6	44.9	136500	YES	N	1700	5677	
3017	LDRT151115	162440	16:24:57	16:33:48	0:08:51	38.6	44.9	136500	YES	N	1819	5869	
3018	LDRT151115	163637	16:36:54	16:45:24	0:08:30	38.6	44.9	136500	YES	N	1931	6385	
3019	LDRT151115	164837	16:48:54	16:57:51	0:08:57	38.6	44.9	136500	YES	N	1766	5960	
3020	LDRT151115	170047	17:01:04	17:09:41	0:08:37	38.6	44.9	136500	YES	N	1952	6404	

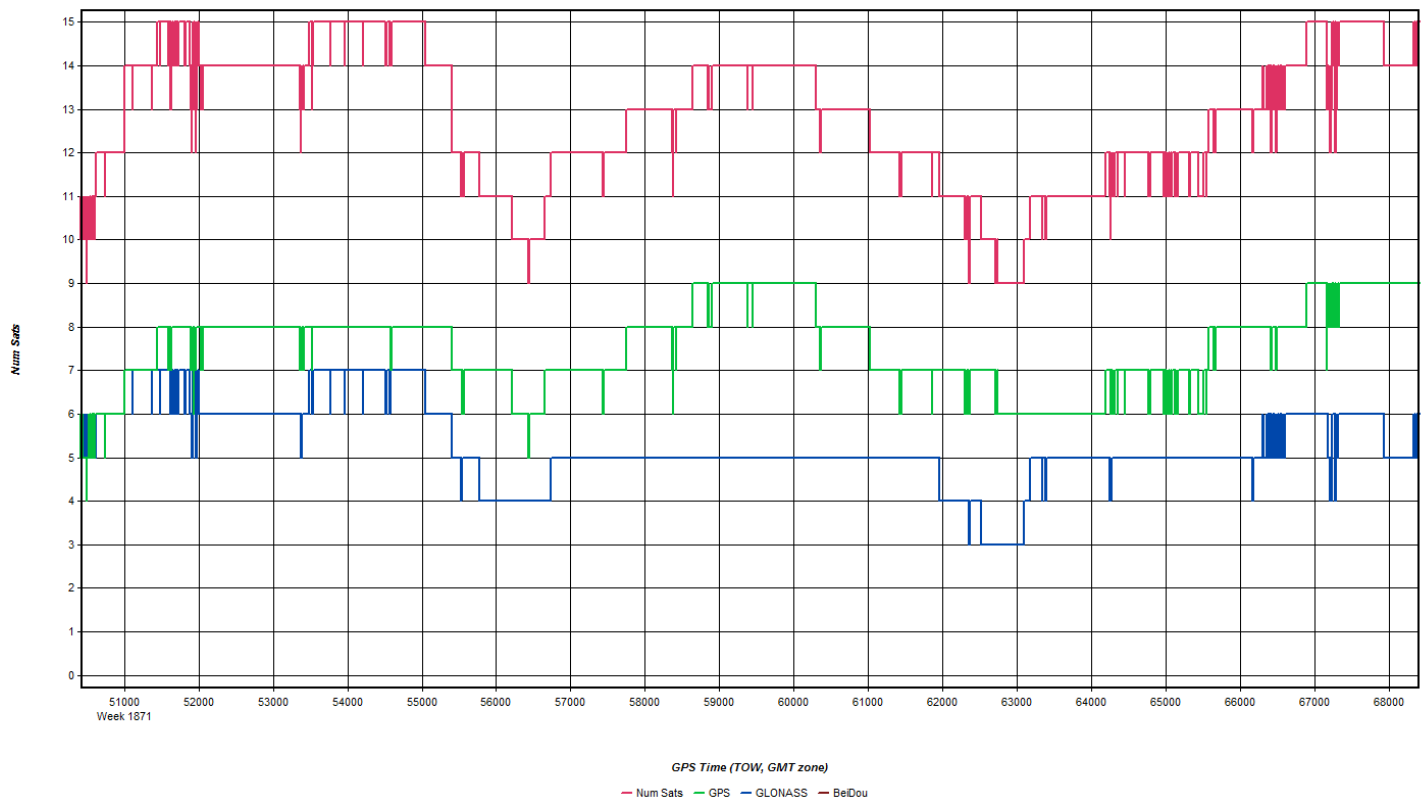
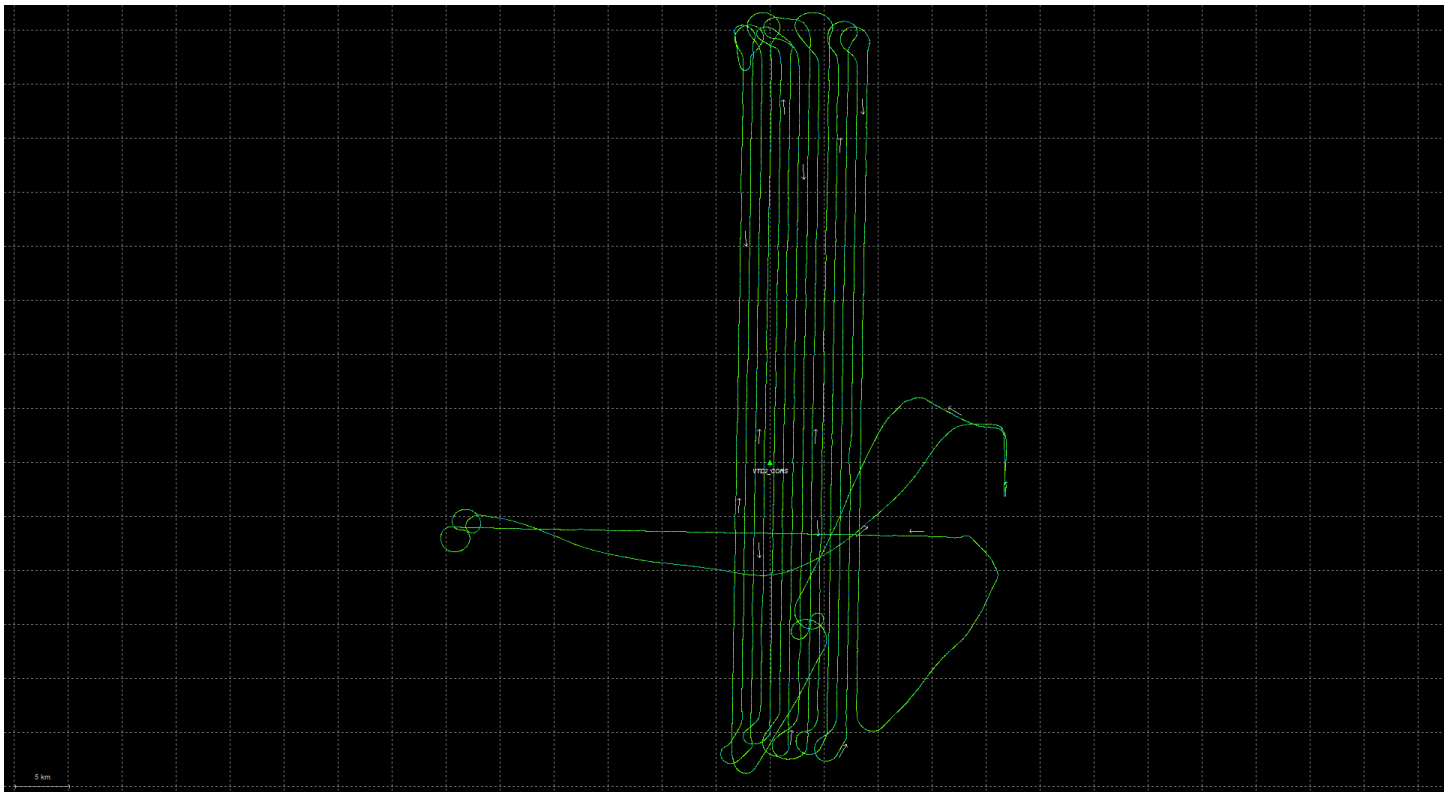
LIDAR FLIGHT SUMMARY				DATA COLLECTION			
Aircraft IMU Time	4:24:23	Hobbs Start	26:73.1	Total Lines	0	Project % Complete	#DIV/0!
Sensor Collection Time	2:28:27	Hobbs Stop	26:77.5	# Reflight Lines	0	Total Flight Lines	0
Line Miles Flown	0.0	Mission Hobbs	4.4	Refight Percent	#DIV/0!	Line Complete	0
Average Flight Lines Speed	0 KTS	Refight Hobbs	17:09.41	Sensor Re-Flight Miles	0.0	Mission Lines	0

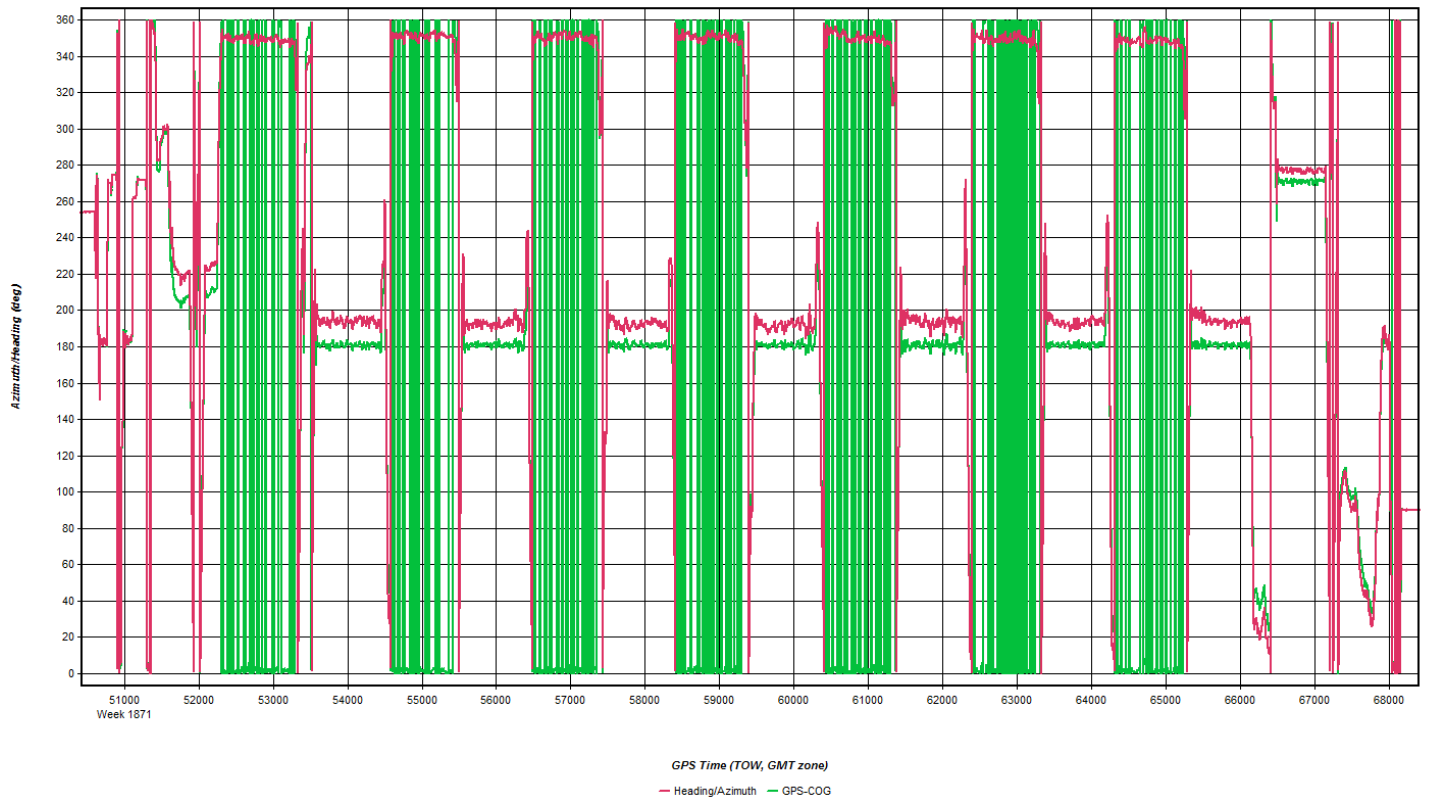
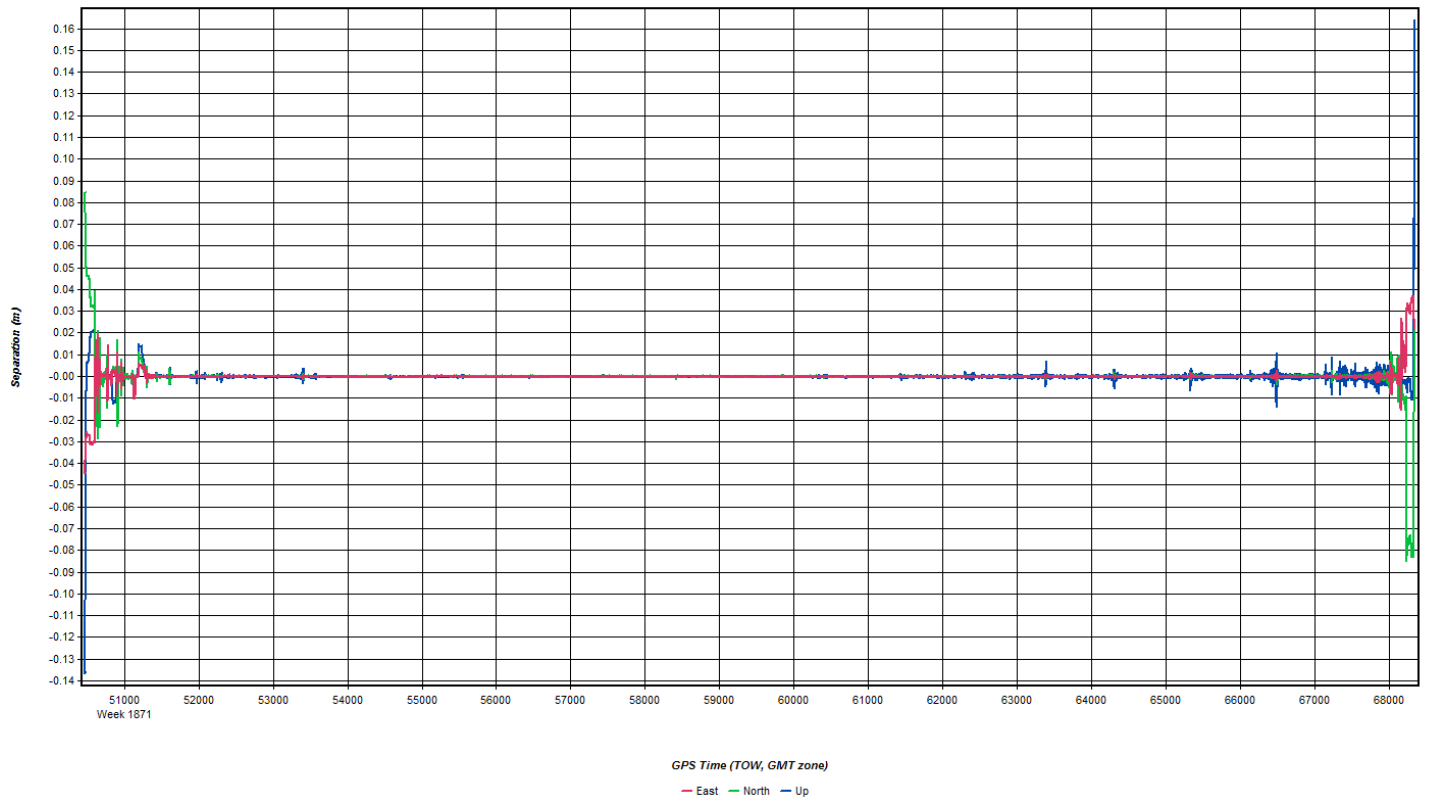
Base Station Log

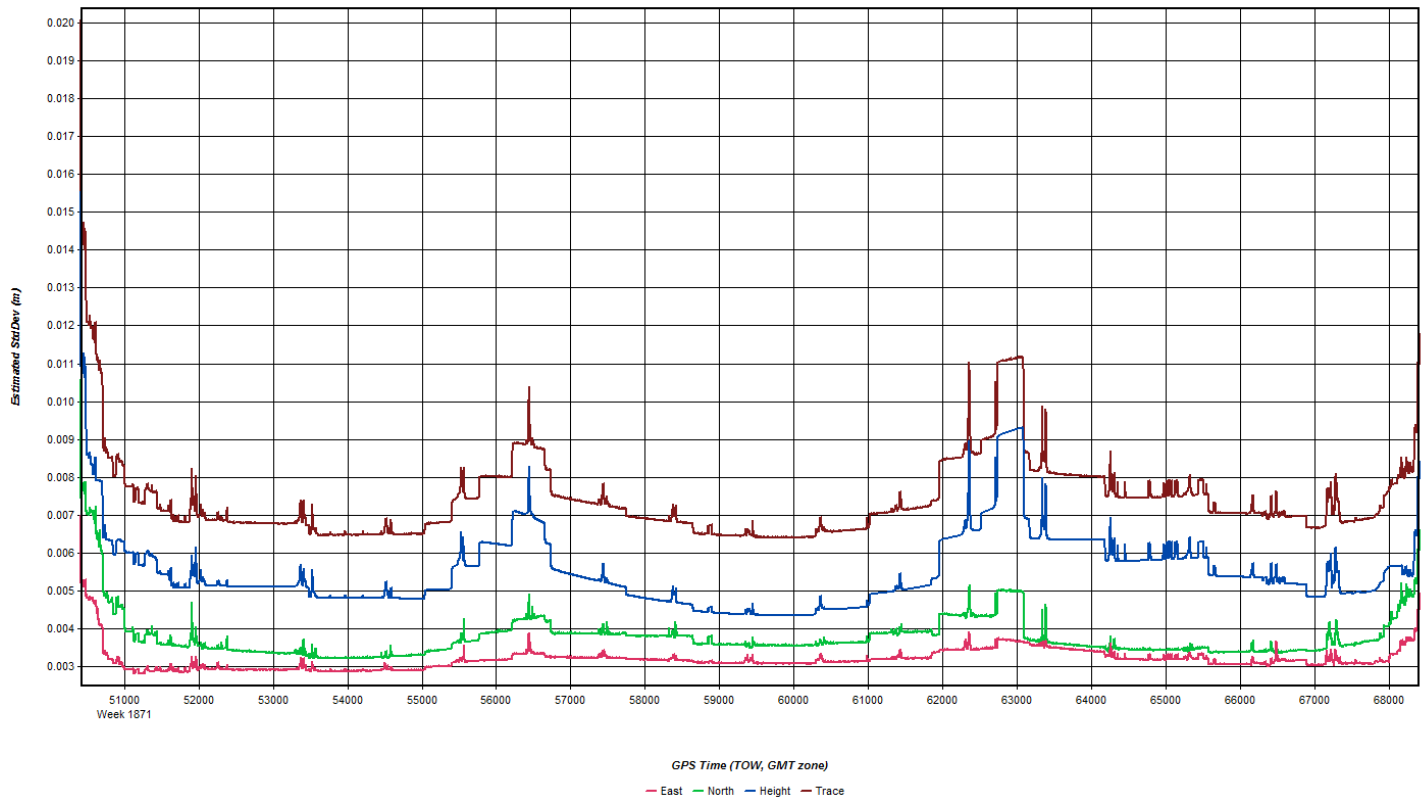
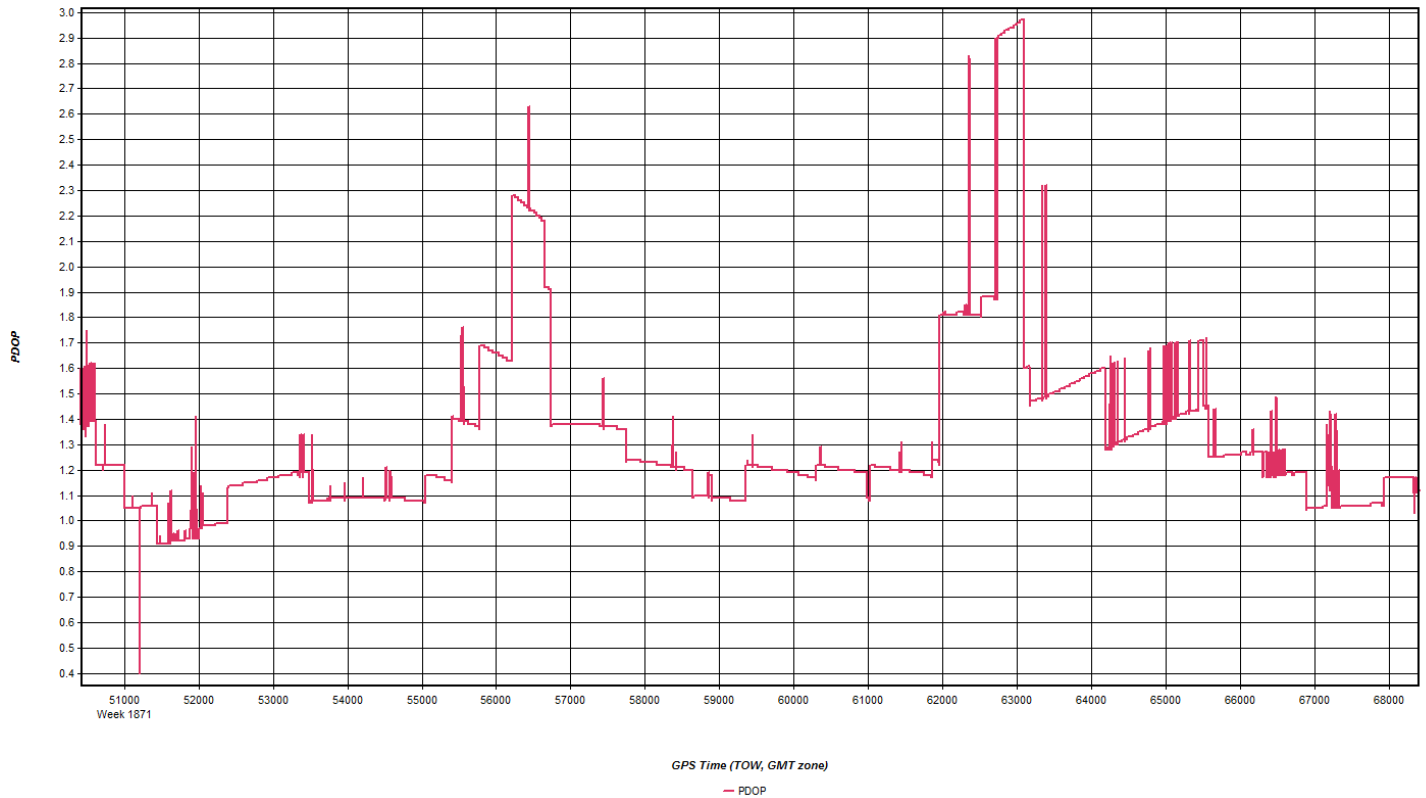
GPS SESSION FORM

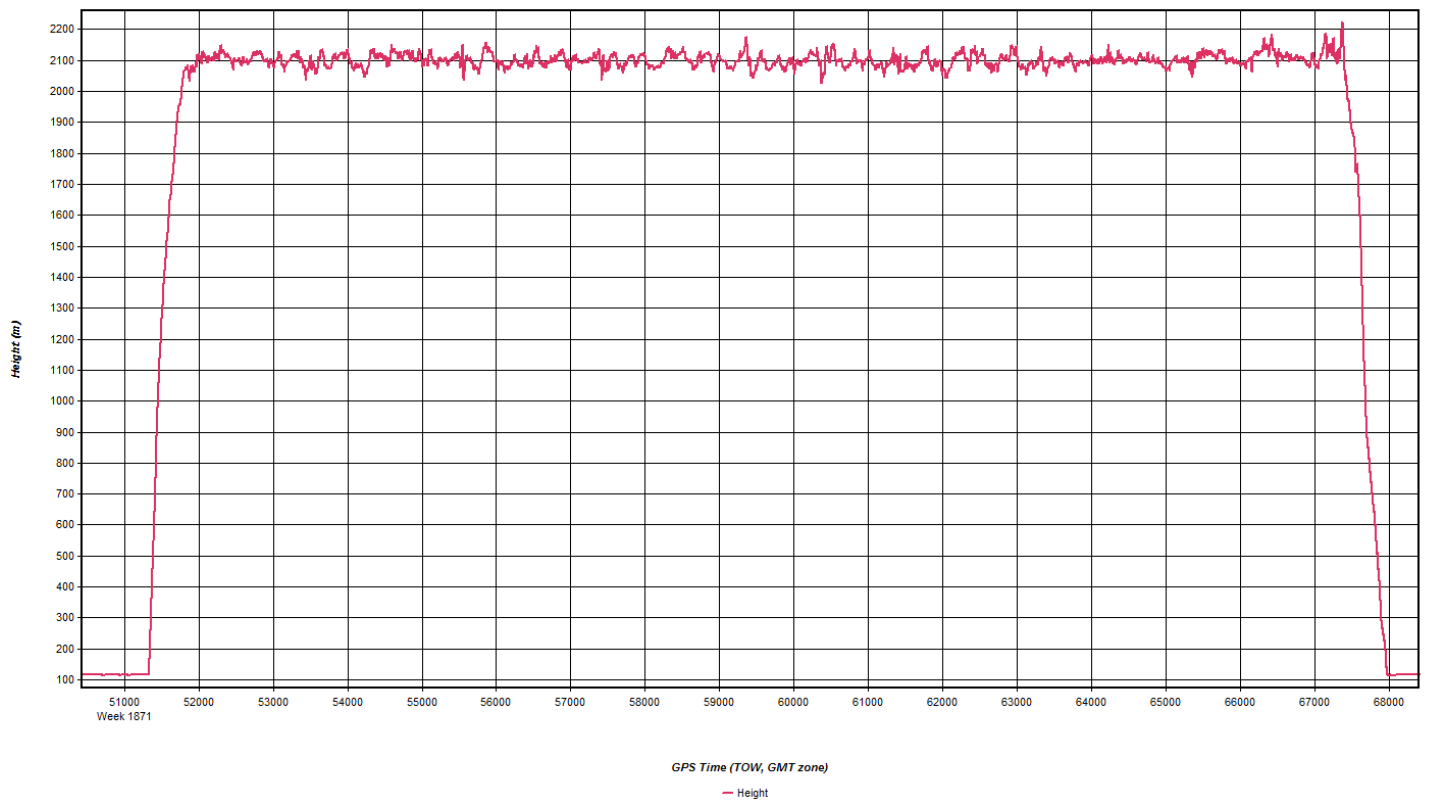
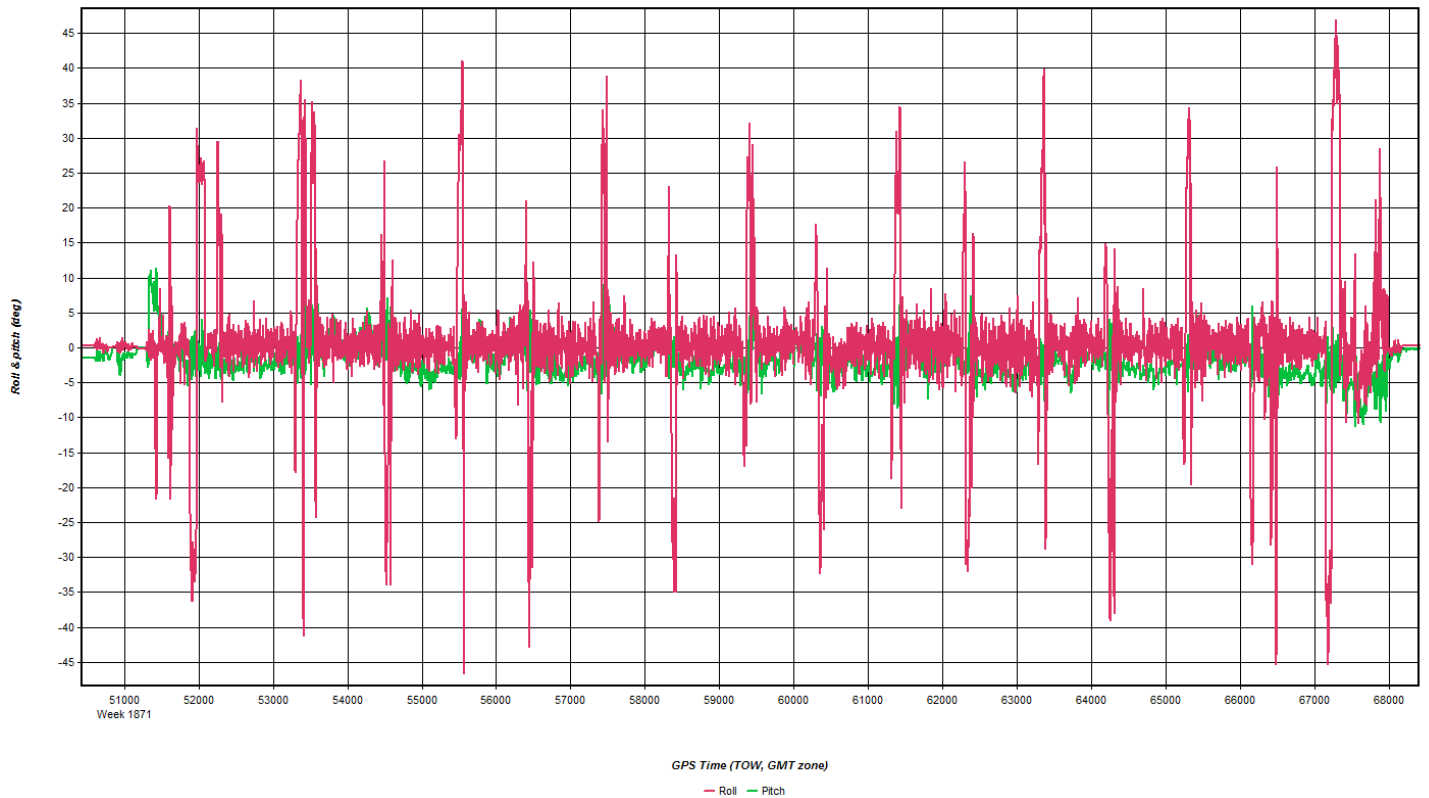
Contract # / TO #		Client / Project Name		Date	
		Quantum- Concord M1		15-Nov-2015	
PAR Project No.		Survey Firm		Operator Name	
		PAR, LLC		Parker	
Monument Name/Designation			Exact Stamping (photo in survey report)		
CONCORD CBL 150			150 M		
Monument No./PID		Collection Type (circle one)		File Name (receiver generated)	
AH8877		<input checked="" type="radio"/> ABGPS <input type="radio"/> STATIC <input type="radio"/> RTK		19823191.T02	
Receiver Manufacturer		Receiver Model		Receiver Serial No.	
Trimble		R10		5252421982	
Data Collector Manufacturer		Data Collector Model		Data Collector Serial No.	
Trimble		Ranger/TSC3		354114046299449	
Antenna Part No.		Antenna Model		Antenna Serial No.	
Starting Antenna Height in Feet		Starting Antenna Height in Meters		Type of Measurement (circle one)	
1 2 3 AVG 2.050 2.050 2.050 2.050				TRUE VERTICAL <input checked="" type="radio"/> ARP	
Ending Antenna Height in Feet		Ending Antenna Height in Meters		Type of Measurement (circle one)	
1 2 3 AVG 2.050 2.050 2.050 2.050				TRUE VERTICAL <input checked="" type="radio"/> ARP	
Antenna Reference Point (diagram in survey report)					
(Antenna Reference Point = VR + VO + VE2) ARP to Phase = 168mm					
Start Date (UTC)		Start Time (UTC)		Approx. Lat. (if available)	
15-Nov-2015		12:53		43 12 07.23201(N)	
End Date (UTC)		End Time (UTC)		Approx. Long. (if available)	
15-Nov-2015		23:13		071 30 20.69798(W)	
Monument is in good condition			Site Diagram/Picture		
Ground Photos					

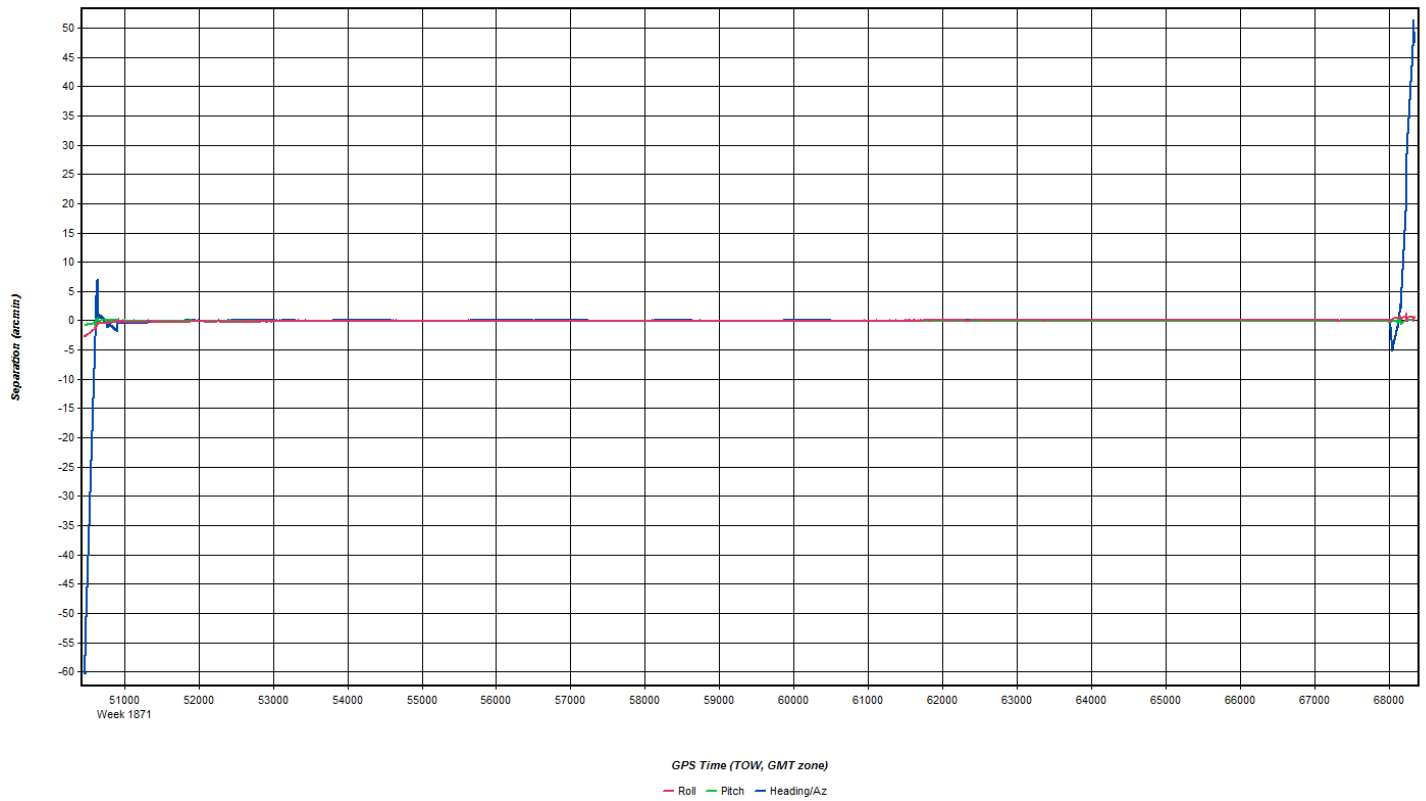
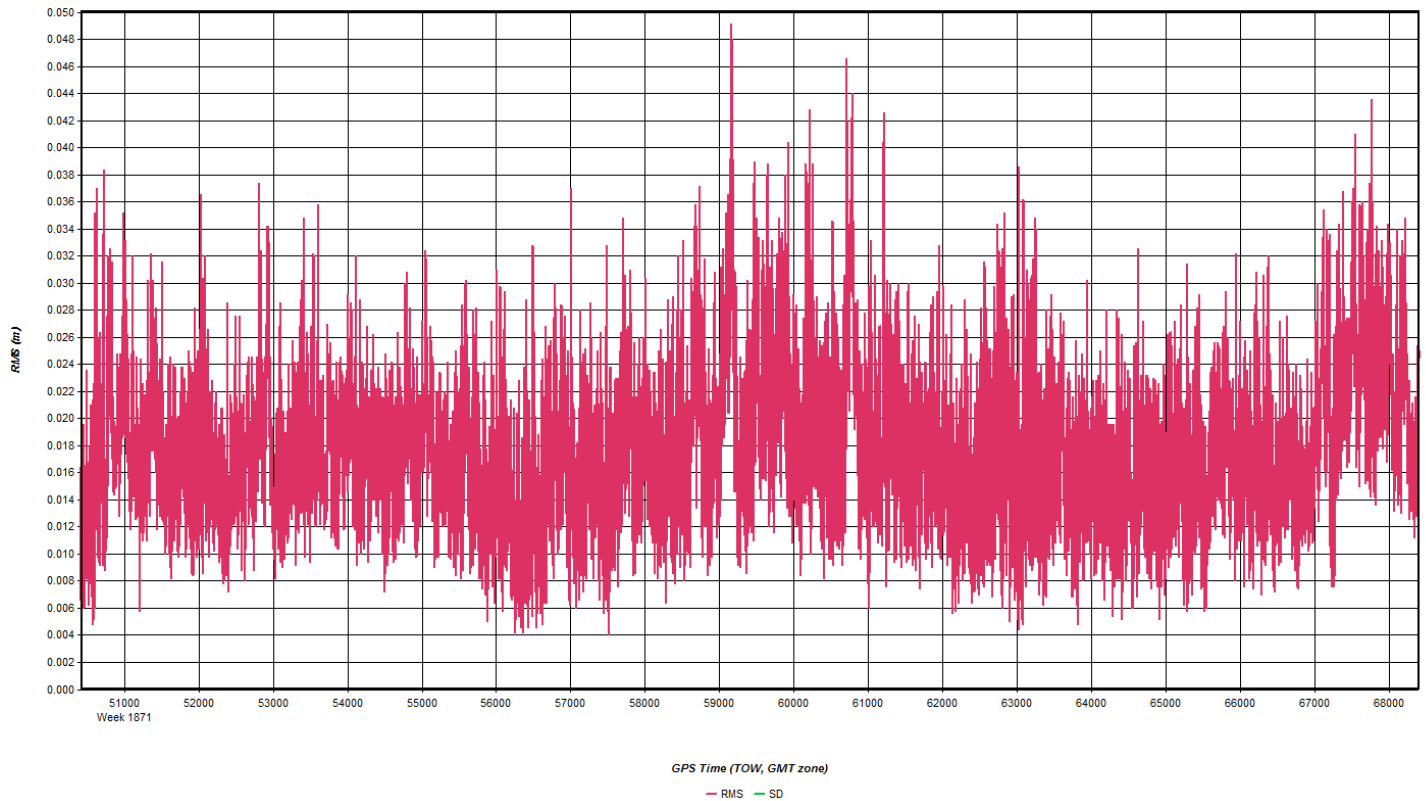
Nov 15, 2015-A (N1107Q, SN7108)

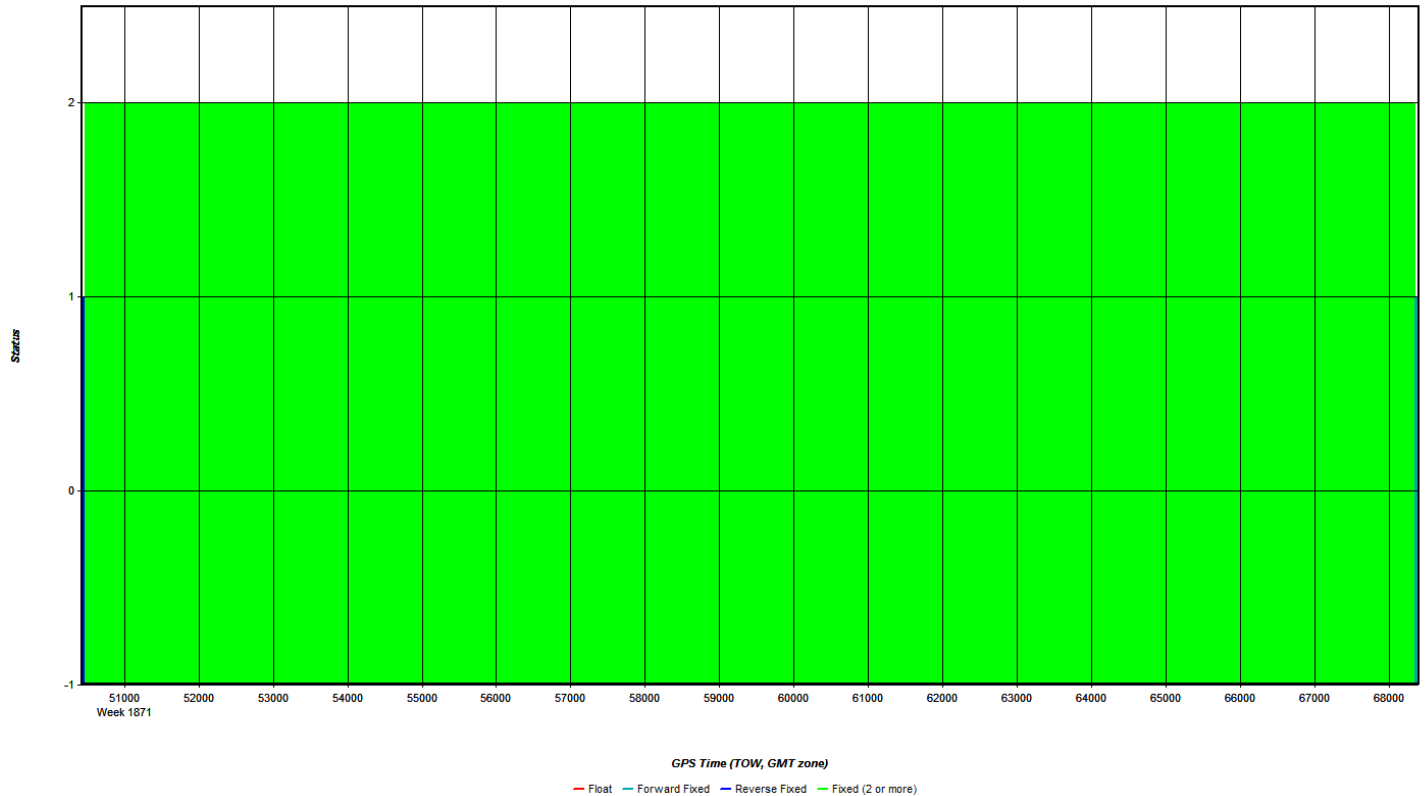












Coordinate/Antenna Settings

Master Remote

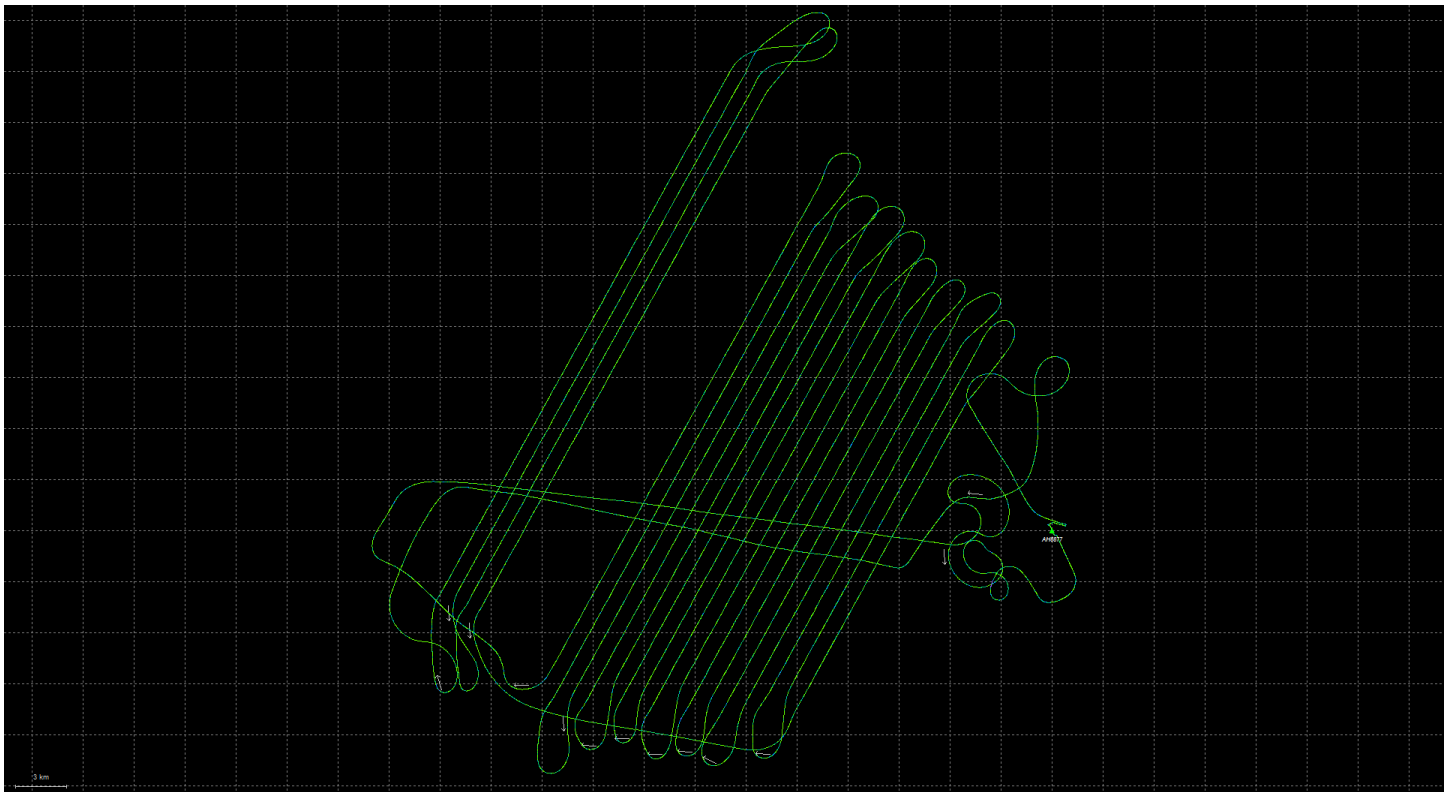
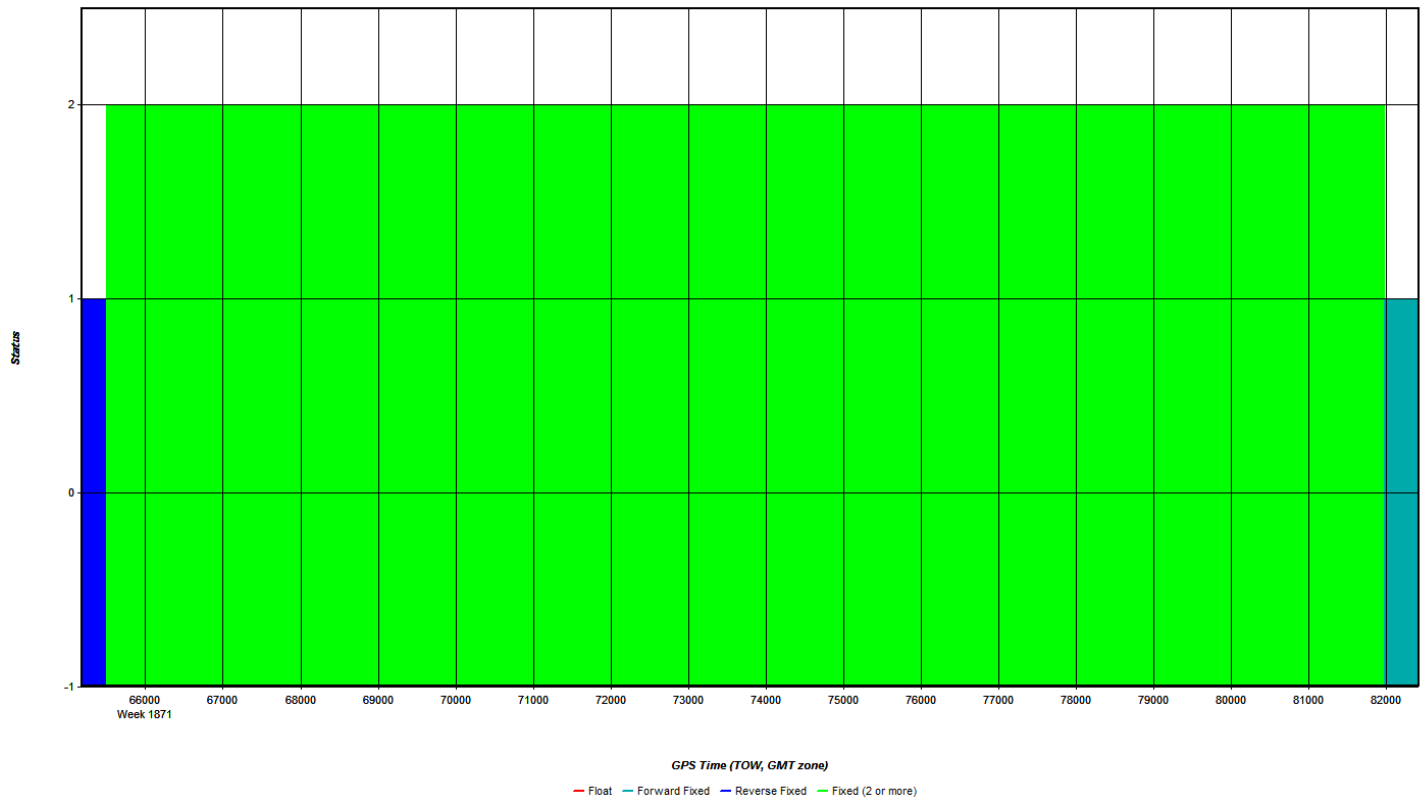
Base Station
 1: VTD2_CORS Name: VTD2_CORS Disabled
 File: E:\Proc\26817_Windham_County_VT\F9R8\Raw_Data\Day3191

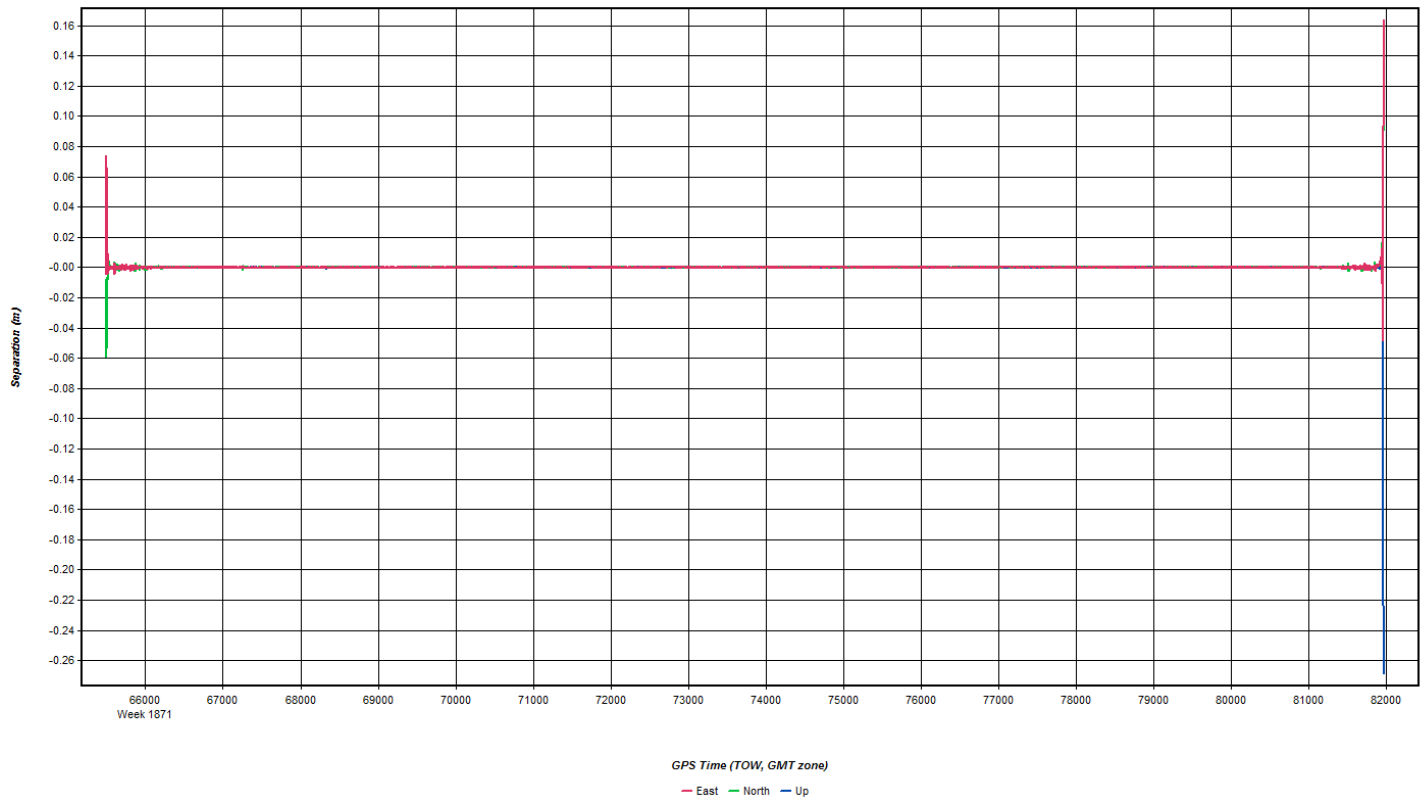
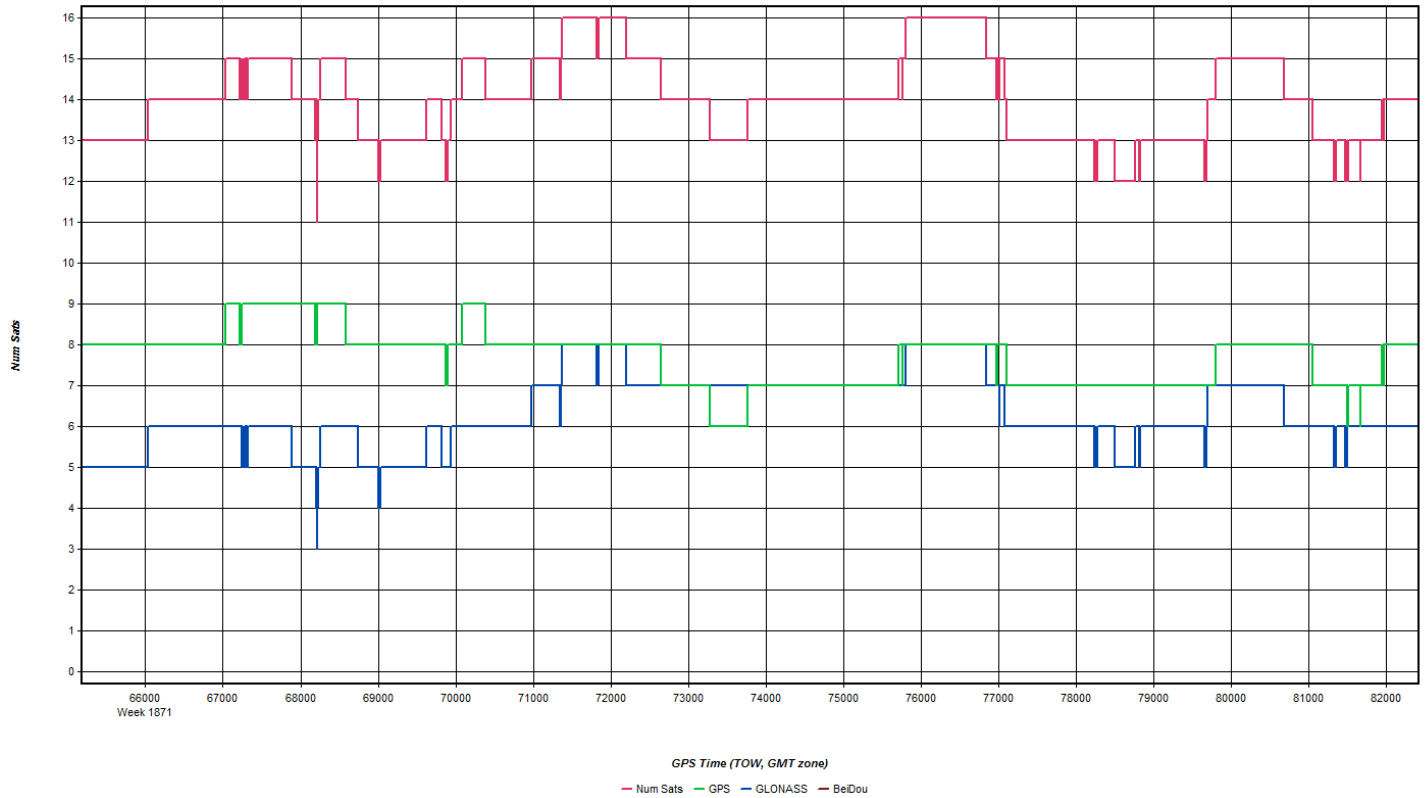
Coordinates
 Latitude: North 42 55 06.10798 Compute from PPP
 Longitude: West 72 32 06.44140 Enter Grid Values
 Ellipsoidal height: 98.040 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

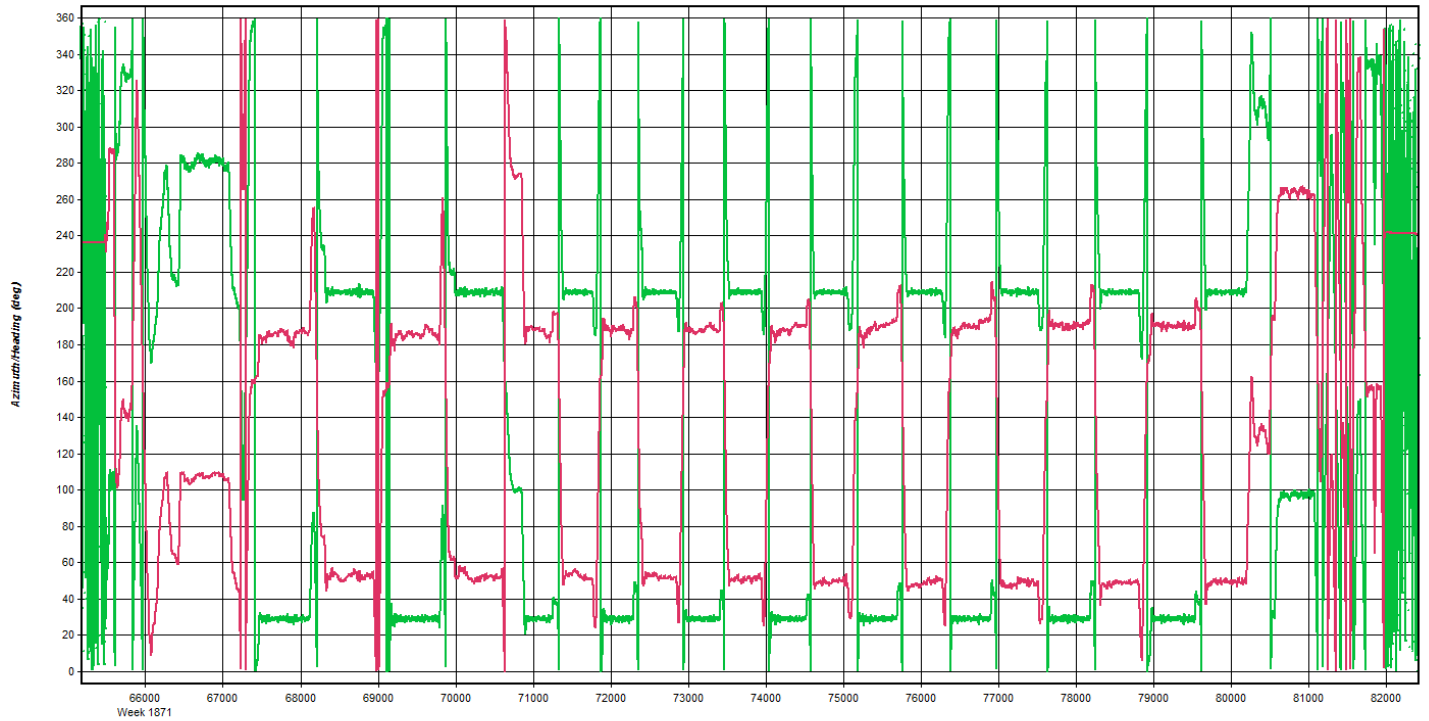
Antenna Height
 From station file: TRM55971.00, NONE View STA File
 Antenna profile: TRM55971.00 Info
 Measured height: 0.000 m
 ARP to L1 offset: 0.067 m
 Applied height: 0.000 m
 Measured to:
 ARP
 L1 Phase Centre
 Compute From Slant

OK Cancel

Nov 15, 2015-B (N799AC, SN7169)

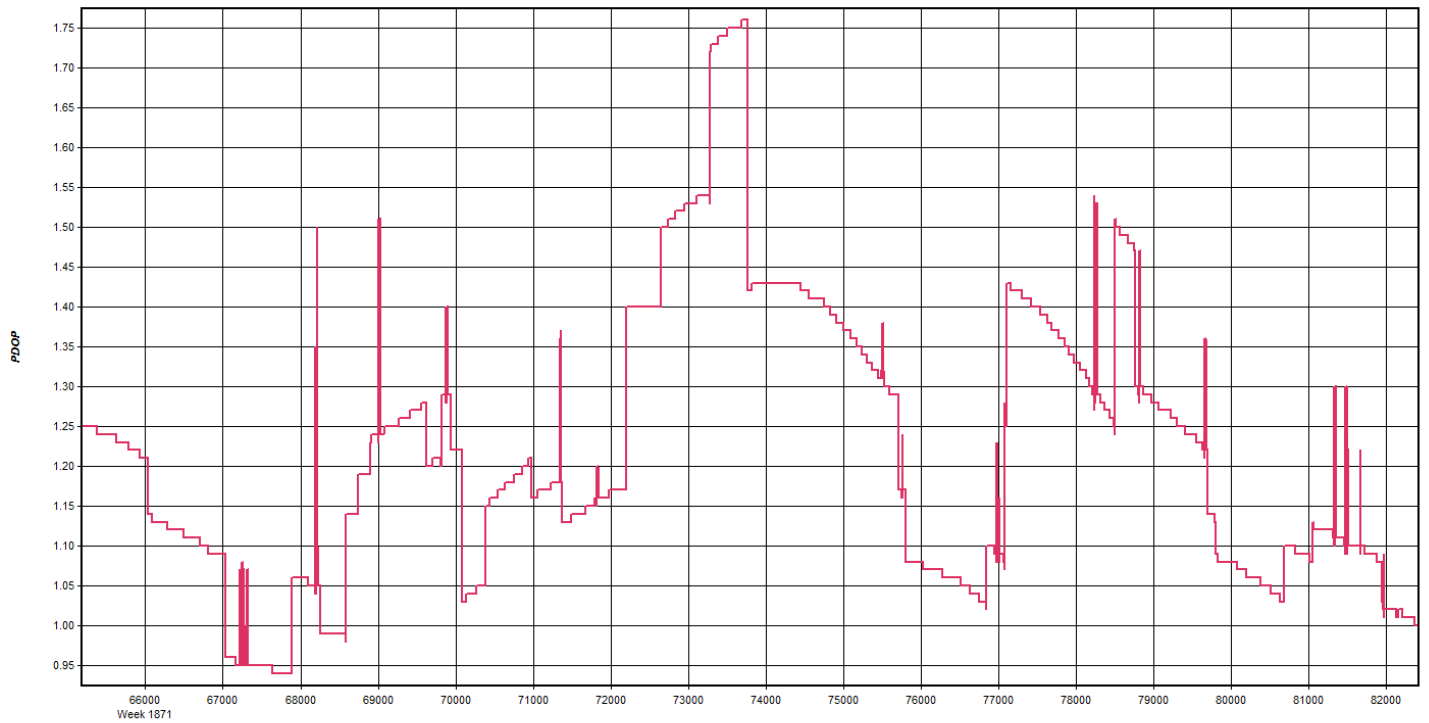






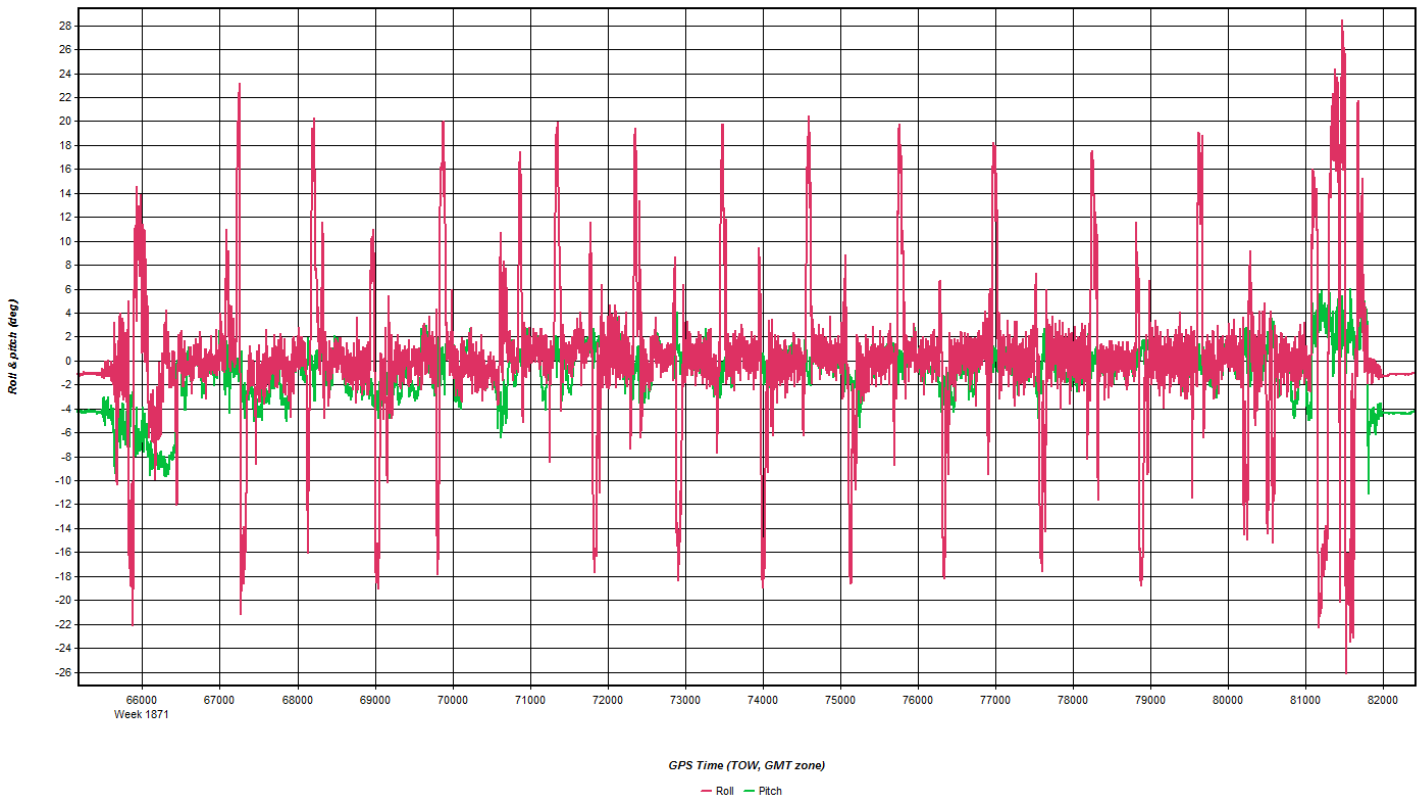
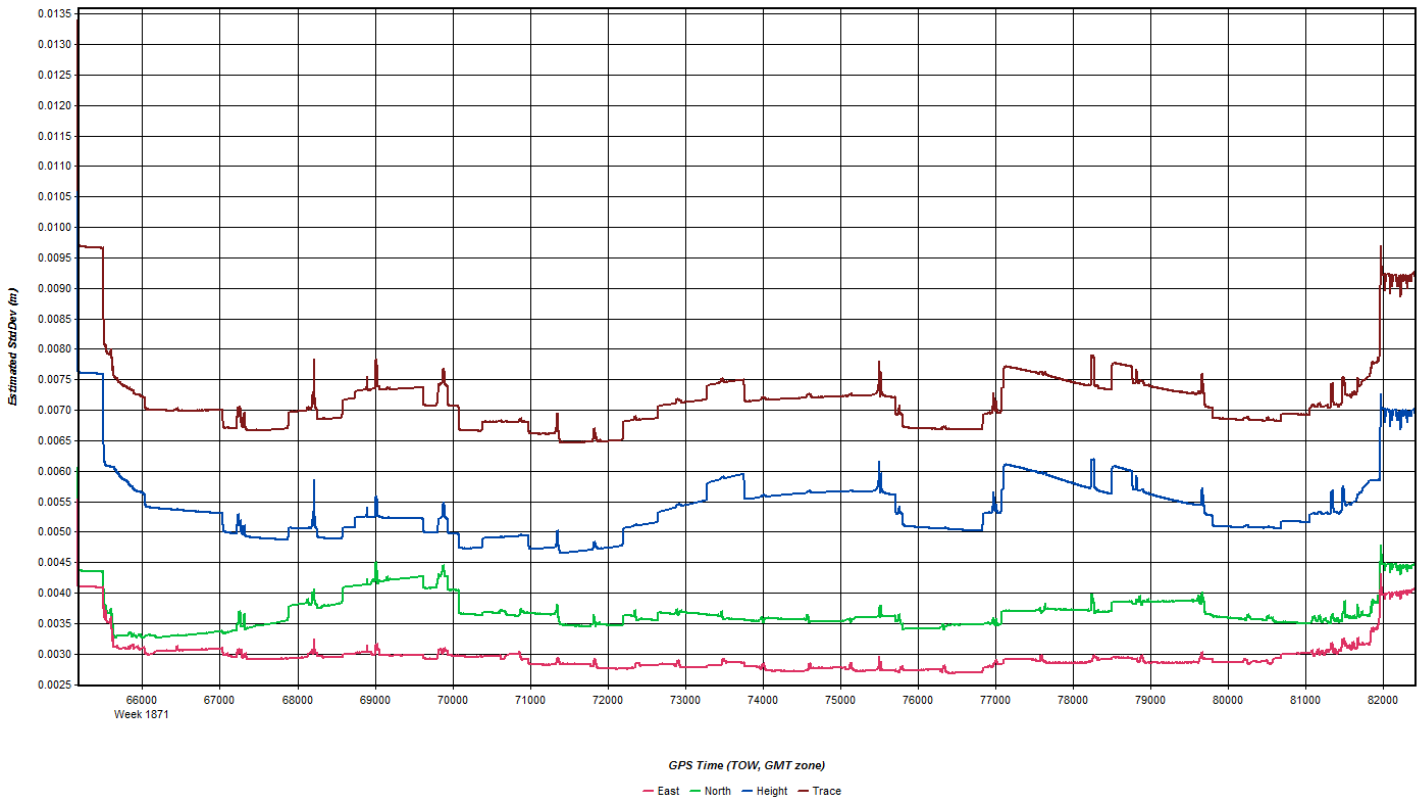
GPS Time (TOW, GMT zone)

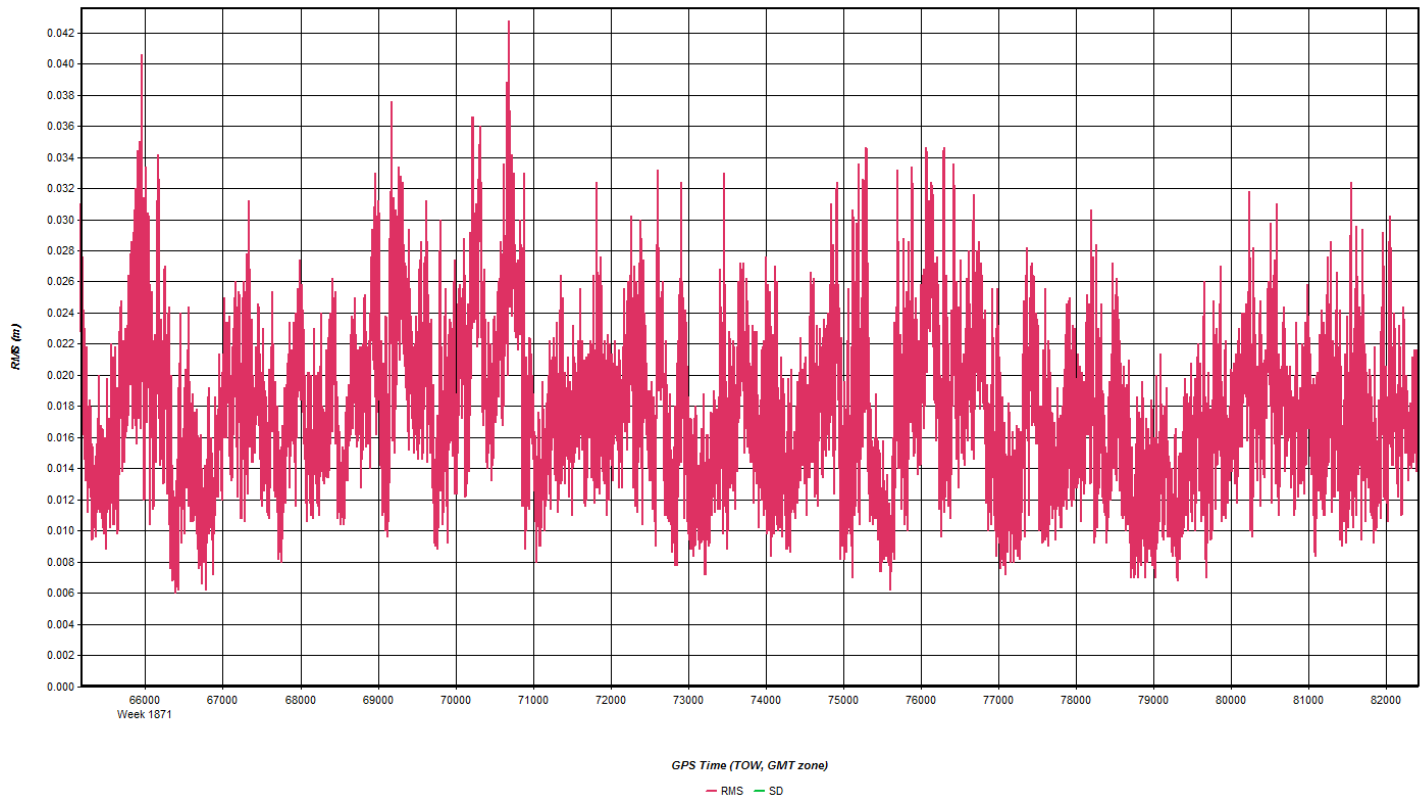
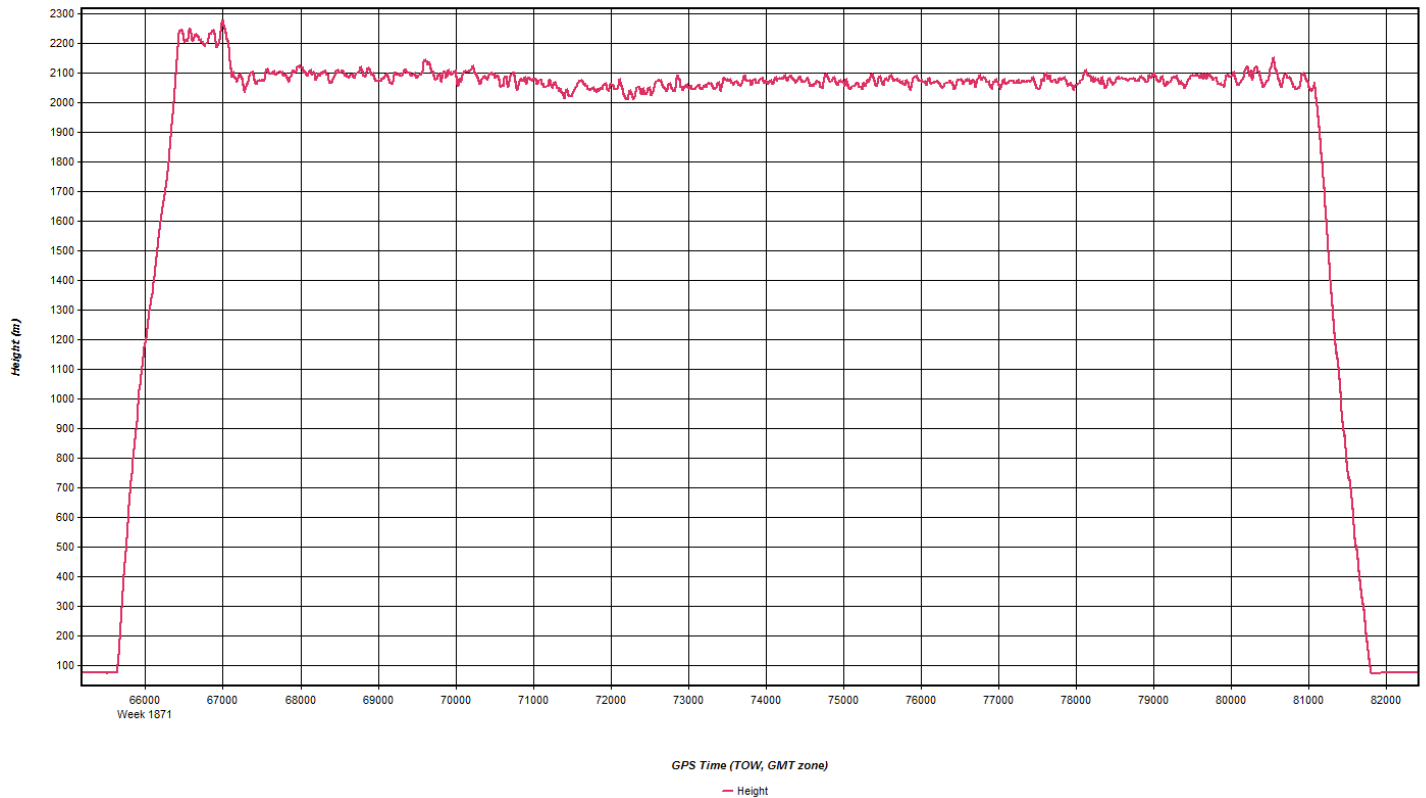
— Heading/Azimuth — GPS-COG

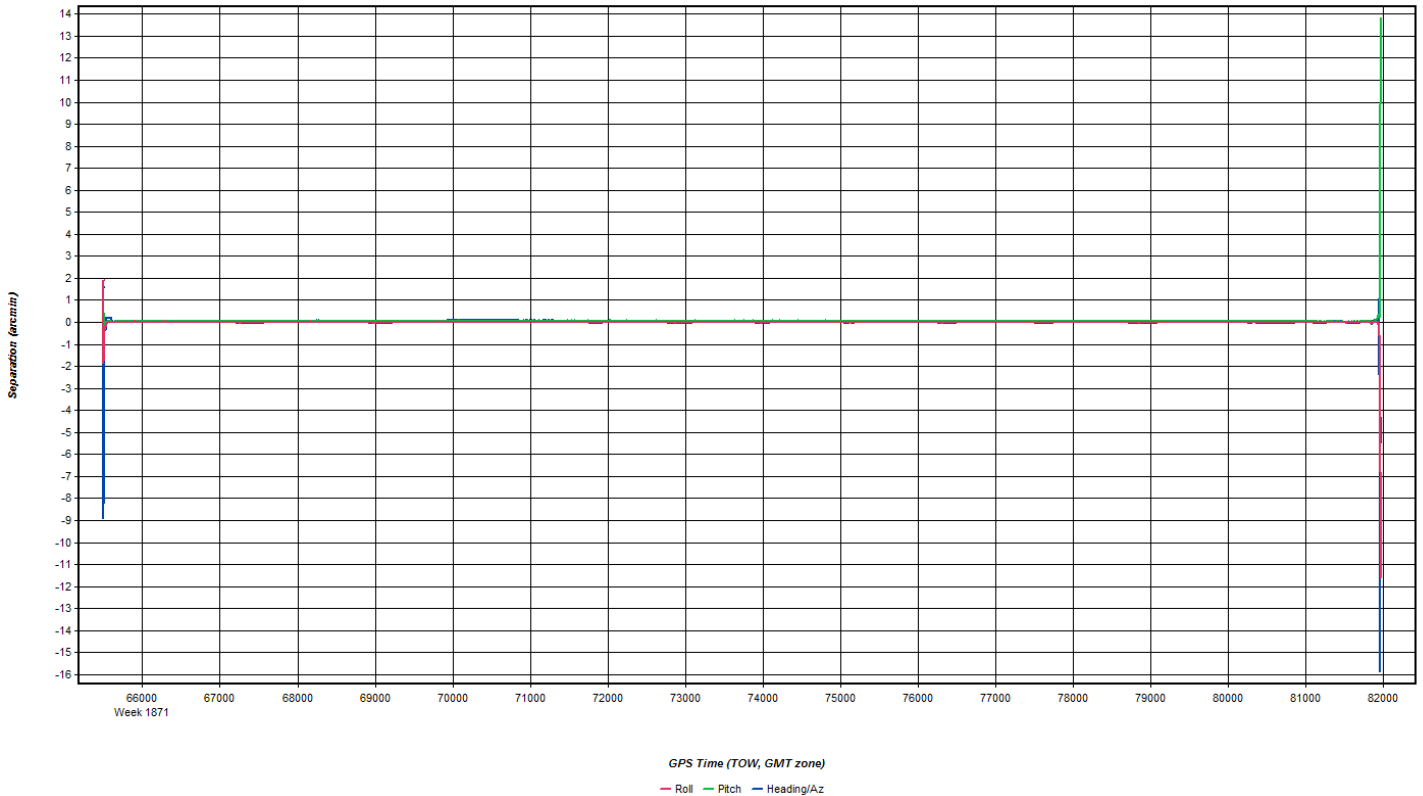


GPS Time (TOW, GMT zone)

— PDOP







? X

Coordinate/Antenna Settings

Master Remote

Base Station

1: AH8877 Name: AH8877 Disabled

File: S:\LIDAR\26818_CT_River\26818_CT_River\RAW_Data\R077\

Coordinates

Latitude: North 43 12 07.23201

Longitude: West 71 30 20.69798

Ellipsoidal height: 74.193 m

Datum: NAD83(2011)

Antenna Height

From station file: TRMR10, NONE

Antenna profile: TRMR10

Measured height: 2.050 m

ARP to L1 offset: 0.128 m

Applied height: 2.178 m

Measured to

ARP

L1 Phase Centre

Flight Log

LIDAR Daily Log													
Field Crew		Project #		TBA		Lever Arm		GPS (m)		X, Y, Z			
RCD 5 DRIVE 013		Quantum		Location		Concord, NH		-0.110 0.210 -1.220		X, Y, Z			
MISSION 2		SENSOR NAVIGATION FILE NAME		20151115_180214									
Reflight	Line	Dir	Start	Stop	Total Time	FOV	Scan Rate	Pulse Rate Hz	Roll Comp	Mut Pulse (Y/N)	Altitude ellipsoid (m)	Altitude ellipsoid (ft)	Speed
	UL001	LDRT151115_182724	18:27:43	18:37:42	0:09:59	38.5	44.9	136500	YES	N	2124	6968	
	3021	LDRT151115_184437	18:44:56	18:55:14	0:10:18	38.6	44.9	136400	YES	N	1730	5676	
	3022	LDRT151115_185848	18:59:07	19:08:22	0:09:46	38.6	44.9	136500	YES	N	1840	6037	
	3023	LDRT151115_191244	19:13:02	19:23:04	0:10:02	38.6	44.9	136400	YES	N	1777	5830	
	3024	LDRT151115_192641	19:27:00	19:36:30	0:09:30	38.6	44.9	136400	YES	N	1882	6176	
	3045	LDRT151115_194206	19:42:24	19:47:21	0:04:57	38.6	45.0	136400	YES	N	1981	6492	
	3044	LDRT151115_195014	19:50:32	19:55:56	0:05:24	38.6	44.9	136500	YES	N	1972	6470	
	3043	LDRT151115_195827	19:58:46	20:04:36	0:05:51	38.6	44.9	136500	YES	N	1946	6381	
	3042	LDRT151115_200711	20:07:26	20:13:48	0:06:19	38.6	44.9	136500	YES	N	1981	6454	
	3041	LDRT151115_201633	20:16:51	20:23:17	0:06:26	38.6	44.9	136500	YES	N	1940	6365	
	3040	LDRT151115_202535	20:25:33	20:32:19	0:06:26	38.6	44.9	136500	YES	N	2026	6647	
	3038	LDRT151115_203446	20:35:04	20:41:54	0:06:50	38.6	45.0	136400	YES	N	1885	6184	
	3037	LDRT151115_204410	20:44:27	20:50:46	0:06:19	38.6	44.9	136500	YES	N	2008	6588	
	3036	LDRT151115_205337	20:53:56	21:01:17	0:07:22	38.6	44.9	136400	YES	N	1841	6340	
	3035	LDRT151115_210401	21:04:20	21:11:09	0:06:49	38.6	44.9	136400	YES	N	1966	6450	
	3034	LDRT151115_211333	21:13:51	21:21:33	0:07:42	38.6	44.9	136500	YES	N	1747	5732	
	3033	LDRT151115_212423	21:24:41	21:31:38	0:06:57	38.6	44.9	136400	YES	N	1933	6342	
	3032	LDRT151115_213417	21:34:36	21:42:44	0:08:09	38.6	44.9	136500	YES	N	1818	5965	
	3031	LDRT151115_214524	21:45:42	21:53:19	0:07:37	38.6	44.9	136400	YES	N	1900	6234	
	3030	LDRT151115_215620	21:56:39	22:05:20	0:08:41	38.6	44.9	136400	YES	N	1921	6302	
	UL002	LDRT151115_220804	22:08:23	22:16:32	0:08:09	38.6	44.9	136500	YES	N	1927	6322	
	UL003	LDRT151115_222334	22:23:52	22:30:59	0:07:07	38.6	44.9	136500	YES	N	1818	5965	
	UL003	LDRT151115_223440	22:34:58	22:50:49	0:15:51	38.5	44.9	136500	YES	N	1895	6227	

LIDAR FLIGHT SUMMARY


Aircraft IMU Time	4:46:22	Hobbs Start	26:77.7
Sensor Collection Time	3:02:30	Hobbs Stop	26:52.4
Line Miles Flown	0.0	Hobbs Total	4.7
Average Flight Lines Speed	0 KTS	Mission Hobbs	#DIV/0!
		Reflight Hobbs	#DIV/0!

DATA COLLECTION

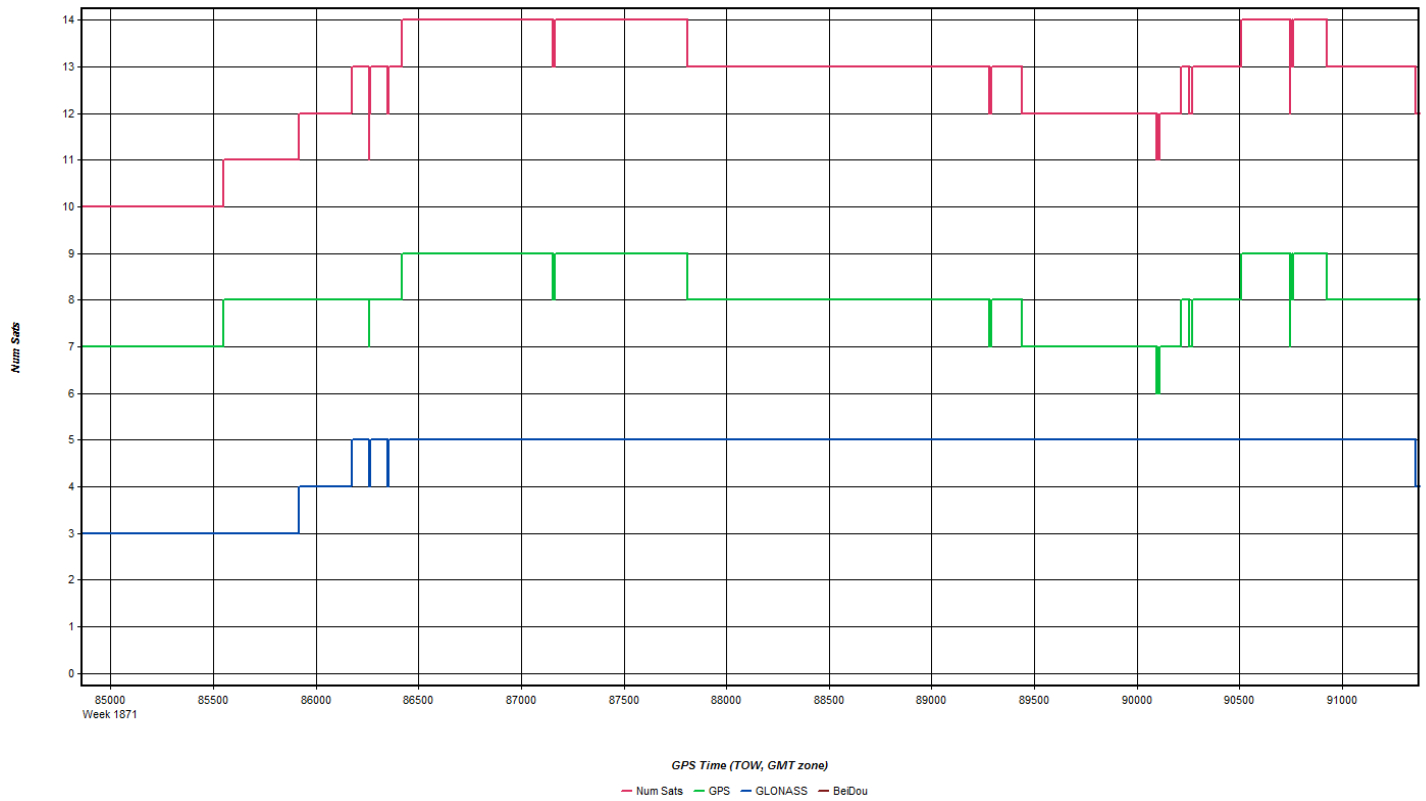
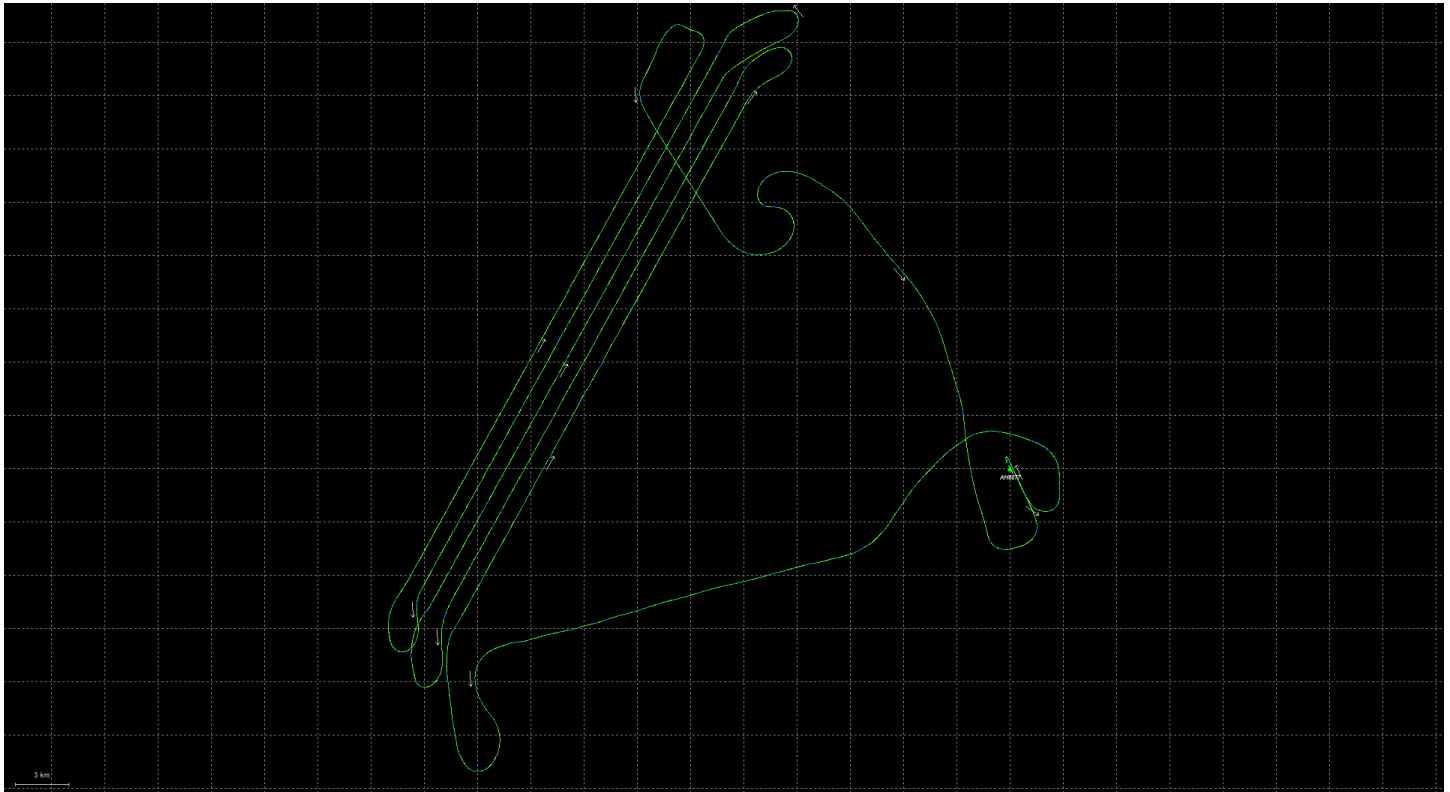
Total Lines	0	Project % Complete	#DIV/0!
# Reflight Lines	0	Total Flight Lines	0
Refight Percent	#DIV/0!	Line Complete	0
Sensor Re-Flight Miles	0.0	Mission Lines	0

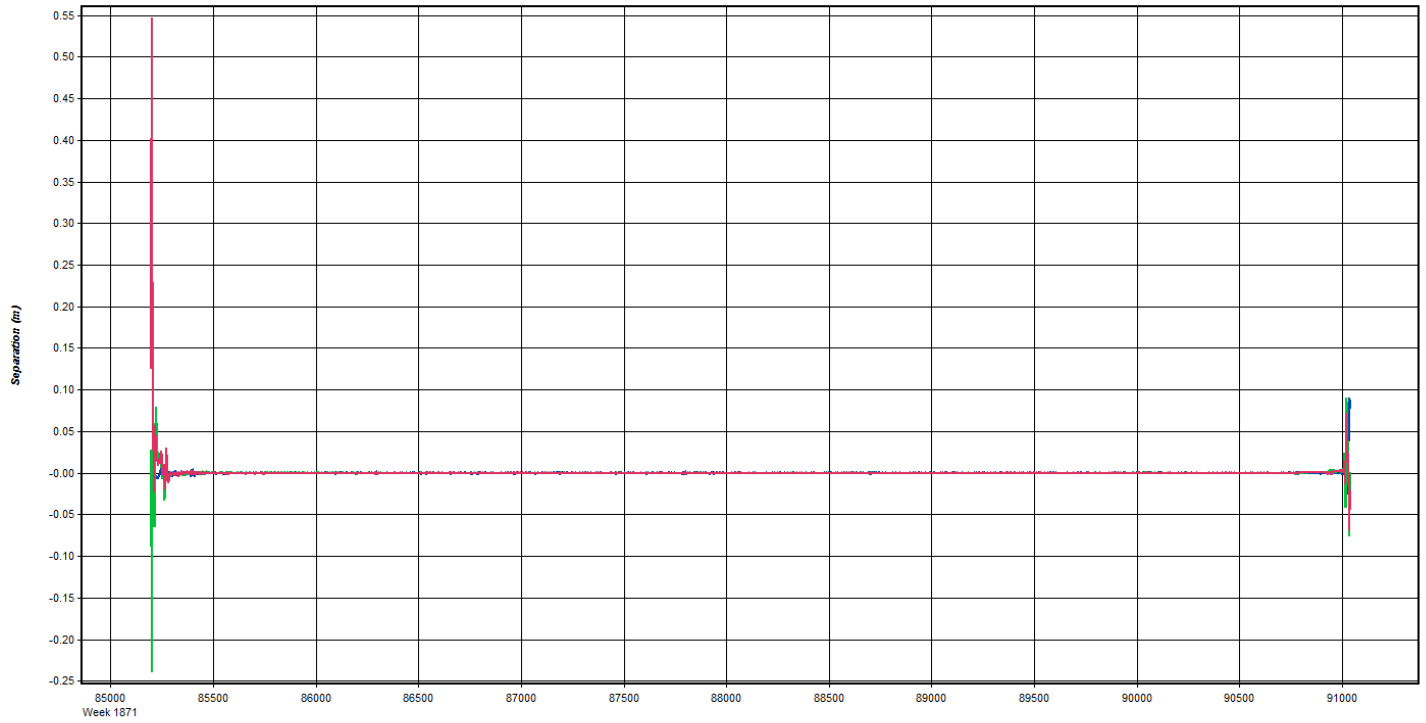
Base Station Log

GPS SESSION FORM

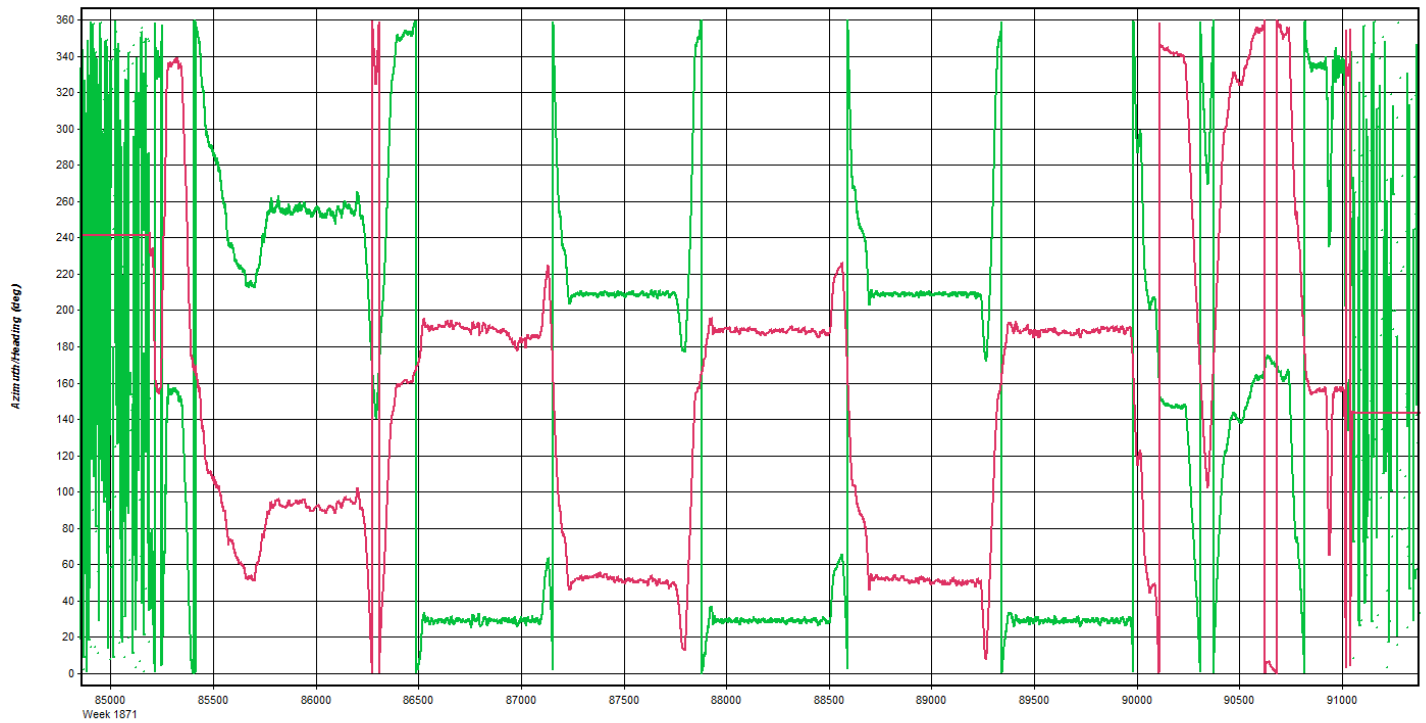
Contract # / TO #		Client / Project Name		Date	
		Quantum- Concord M2		15-Nov-2015	
PAR Project No.		Survey Firm		Operator Name	
		PAR, LLC		Parker	
Monument Name/Designation			Exact Stamping (photo in survey report)		
CONCORD CBL 150			150 M		
Monument No./PID		Collection Type (circle one)		File Name (receiver generated)	
AH8877		<input checked="" type="radio"/> ABGPS <input type="radio"/> STATIC <input type="radio"/> RTK		19823191.T02	
Receiver Manufacturer		Receiver Model		Receiver Serial No.	
Trimble		R10		5252421982	
Data Collector Manufacturer		Data Collector Model		Data Collector Serial No.	
Trimble		Ranger/TSC3		354114046299449	
Antenna Part No.		Antenna Model		Antenna Serial No.	
Starting Antenna Height in Feet		Starting Antenna Height in Meters		Type of Measurement (circle one)	
1 2 3 AVG 2.050 2.050 2.050 2.050				TRUE VERTICAL <input checked="" type="radio"/> ARP	
Ending Antenna Height in Feet		Ending Antenna Height in Meters		Type of Measurement (circle one)	
1 2 3 AVG 2.050 2.050 2.050 2.050				TRUE VERTICAL <input checked="" type="radio"/> ARP	
Antenna Reference Point (diagram in survey report)					
(Antenna Reference Point = VR + VO + VE2) ARP to Phase = 165mm					
Start Date (UTC)		Start Time (UTC)		Approx. Lat. (if available)	
15-Nov-2015		12:53		43 12 07.23201(N)	
End Date (UTC)		End Time (UTC)		Approx. Long. (if available)	
15-Nov-2015		23:13		071 30 20.69798(W)	
Monument is in good condition			Site Diagram/Picture		
Ground Photos					

Nov 15, 2015-C (N799AC, SN7169)

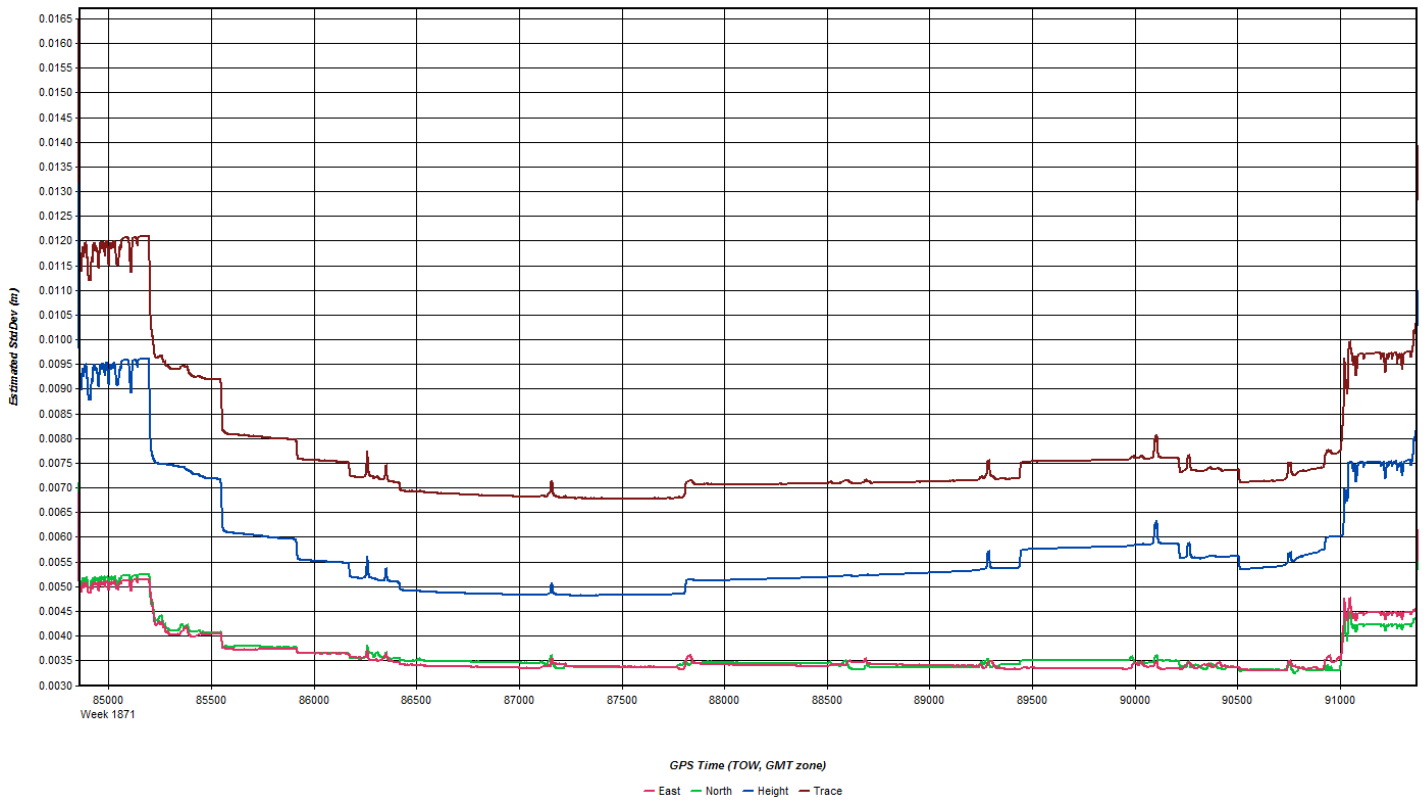
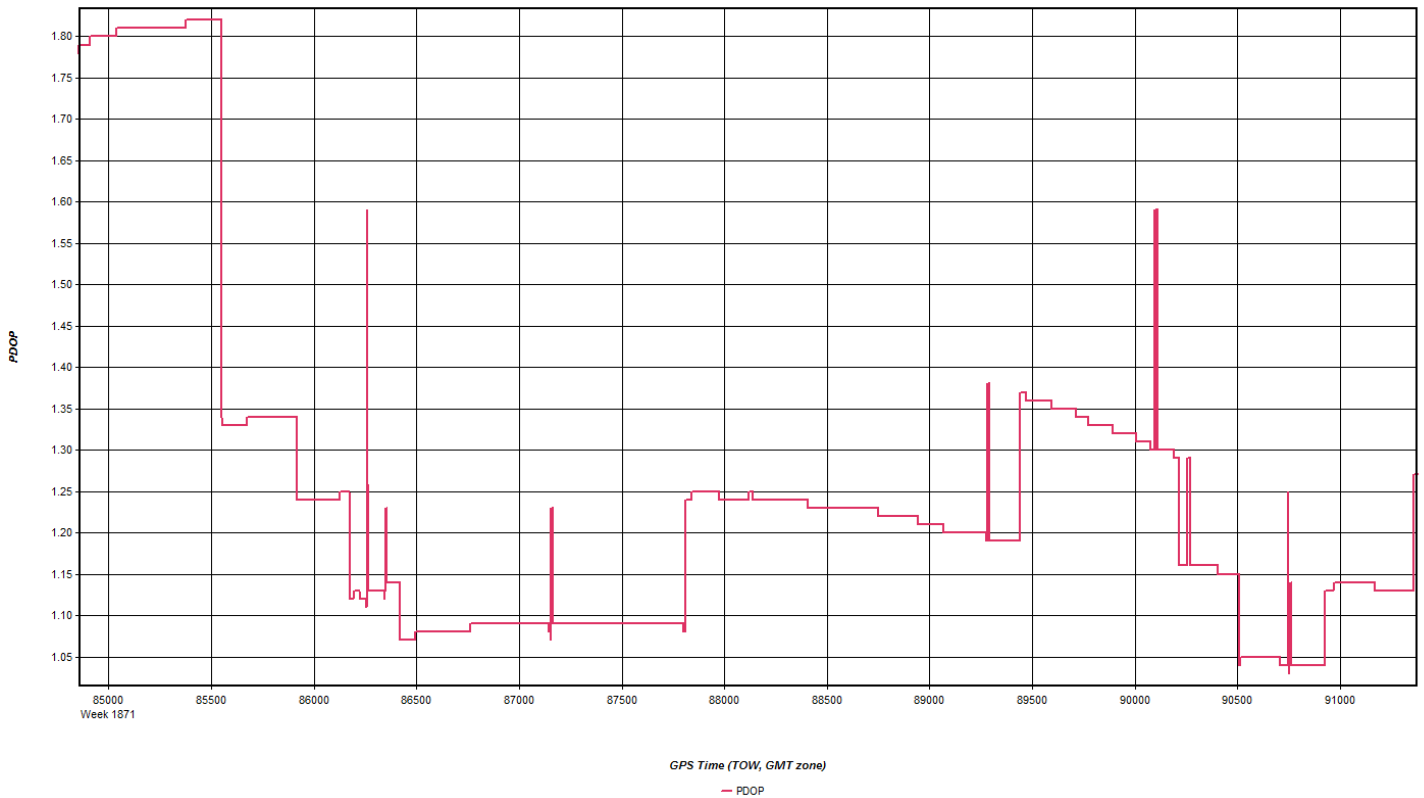


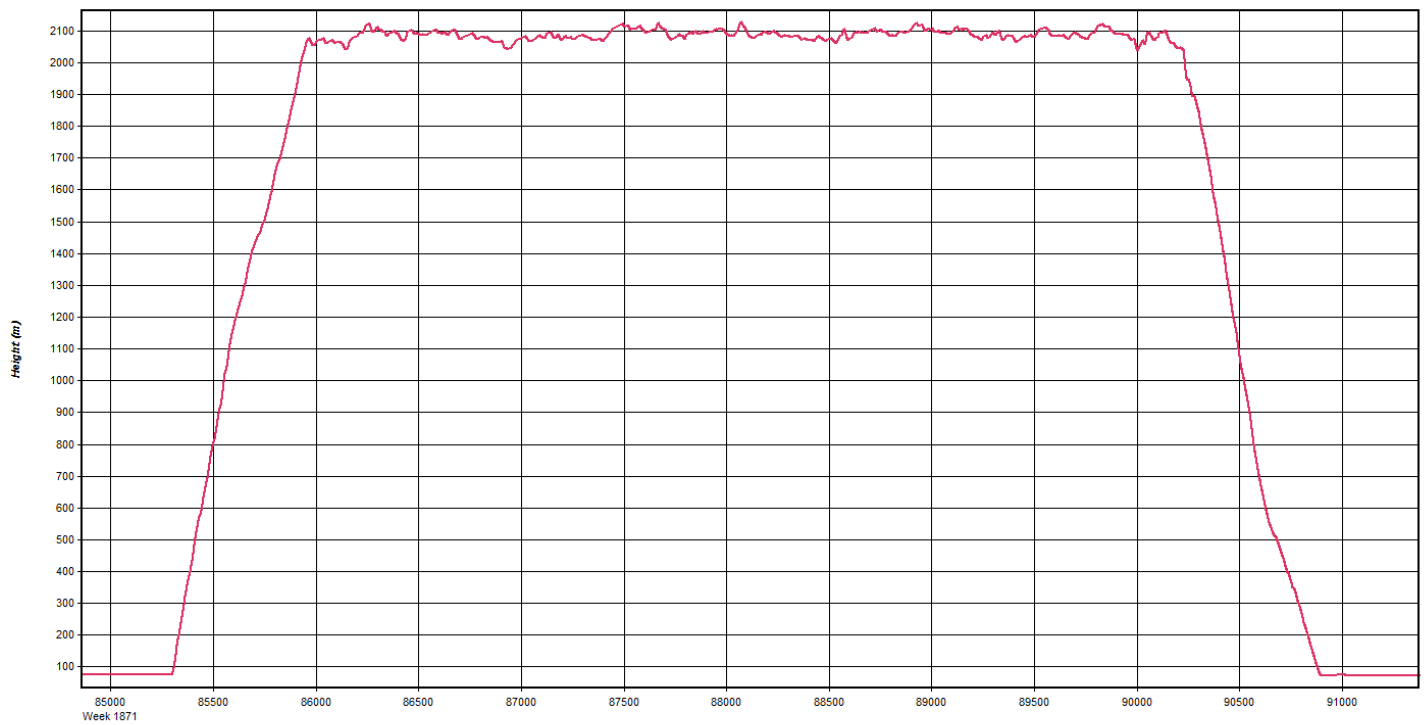
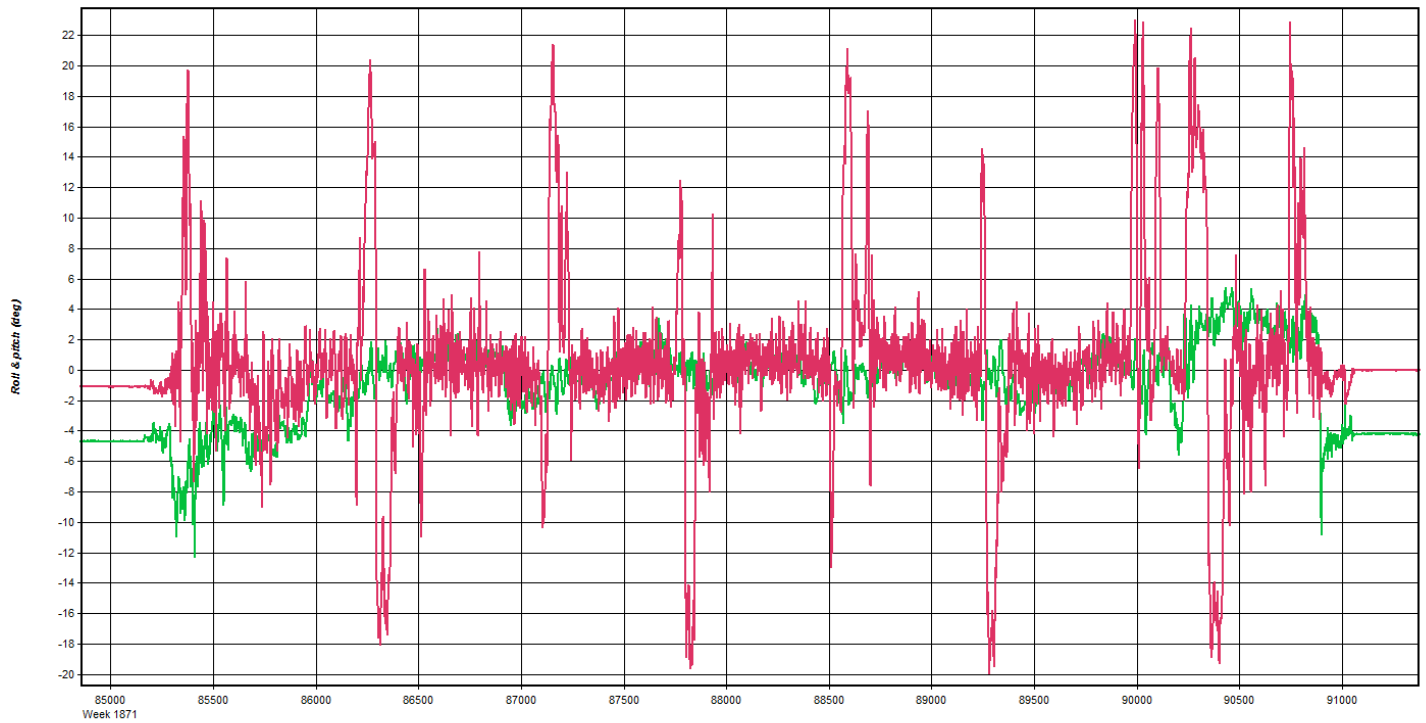


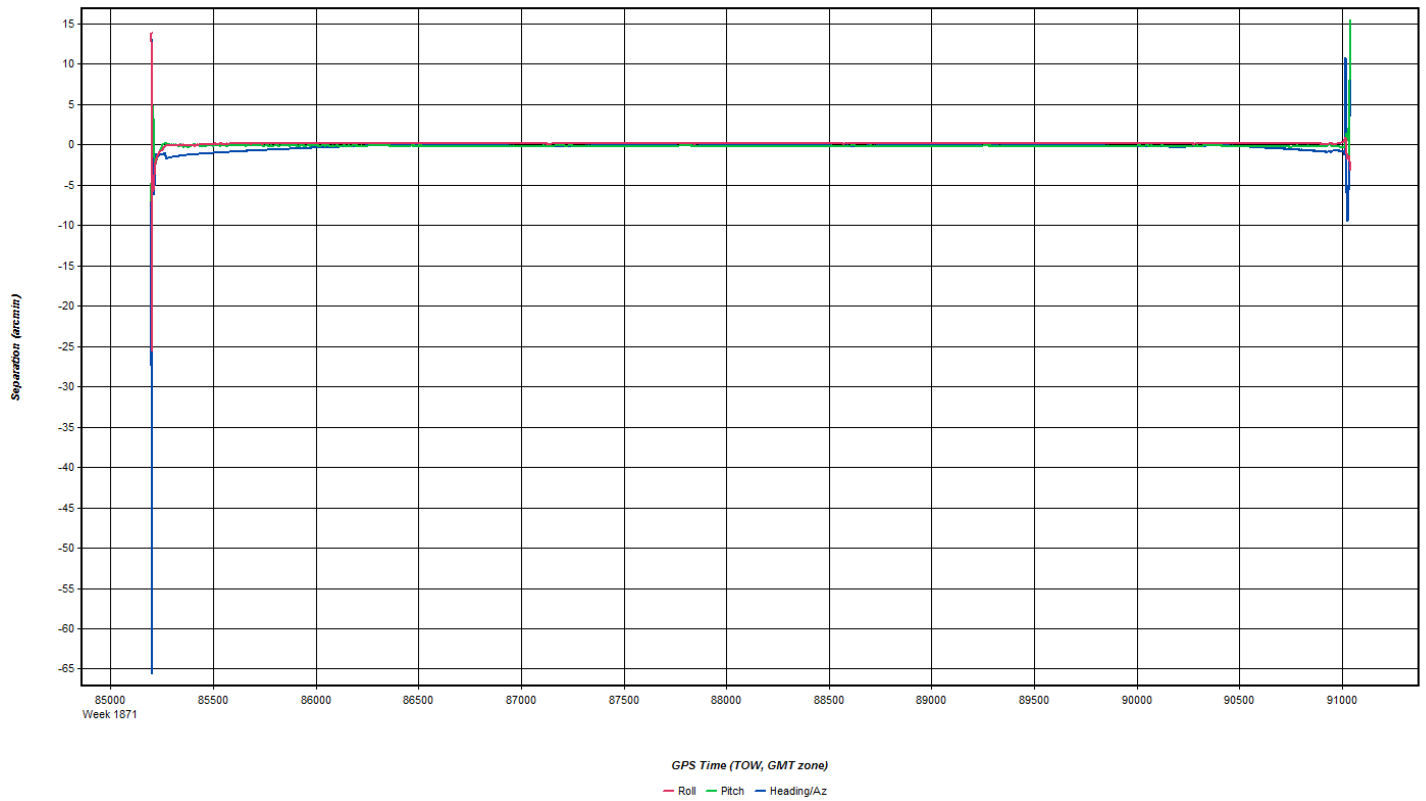
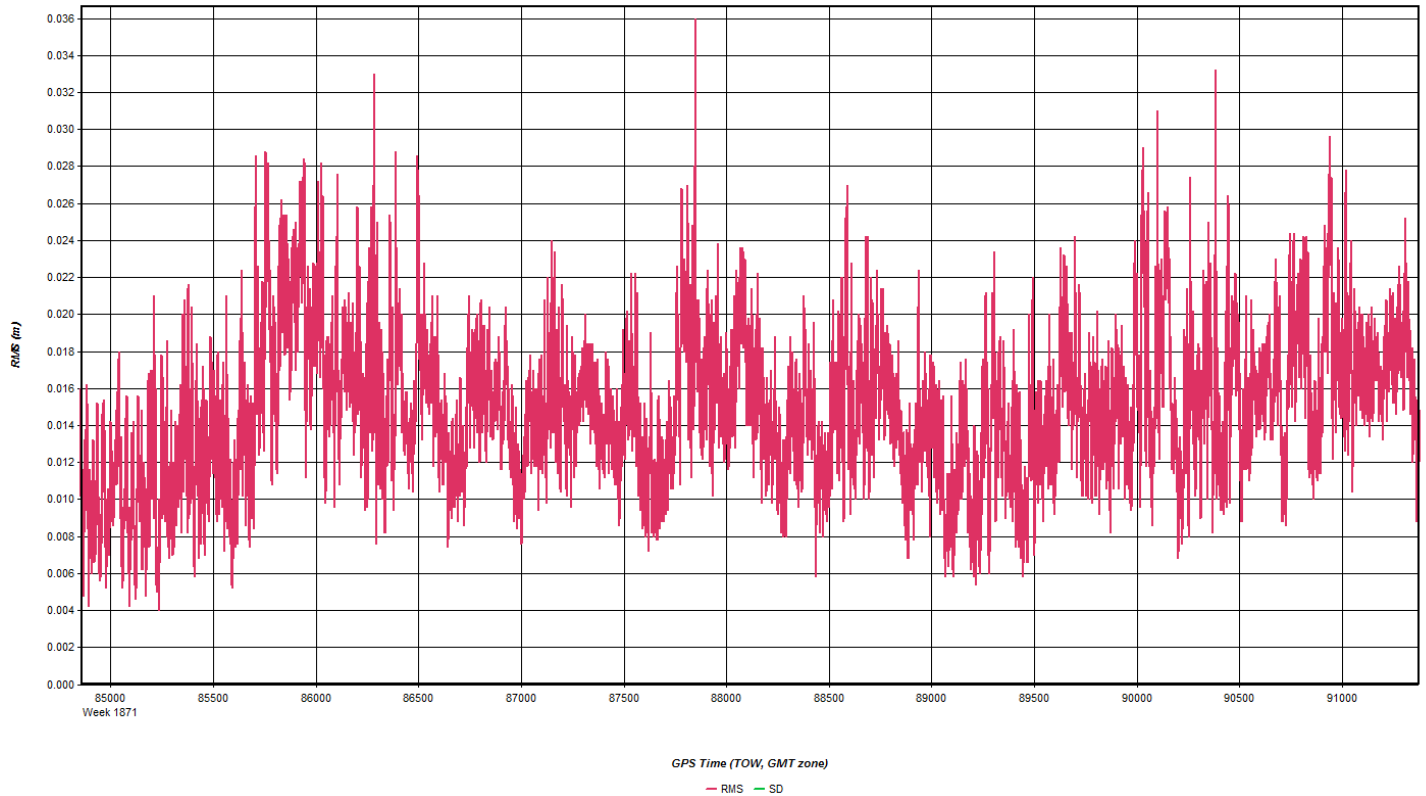
GPS Time (TOW, GMT zone)
— East — North — Up

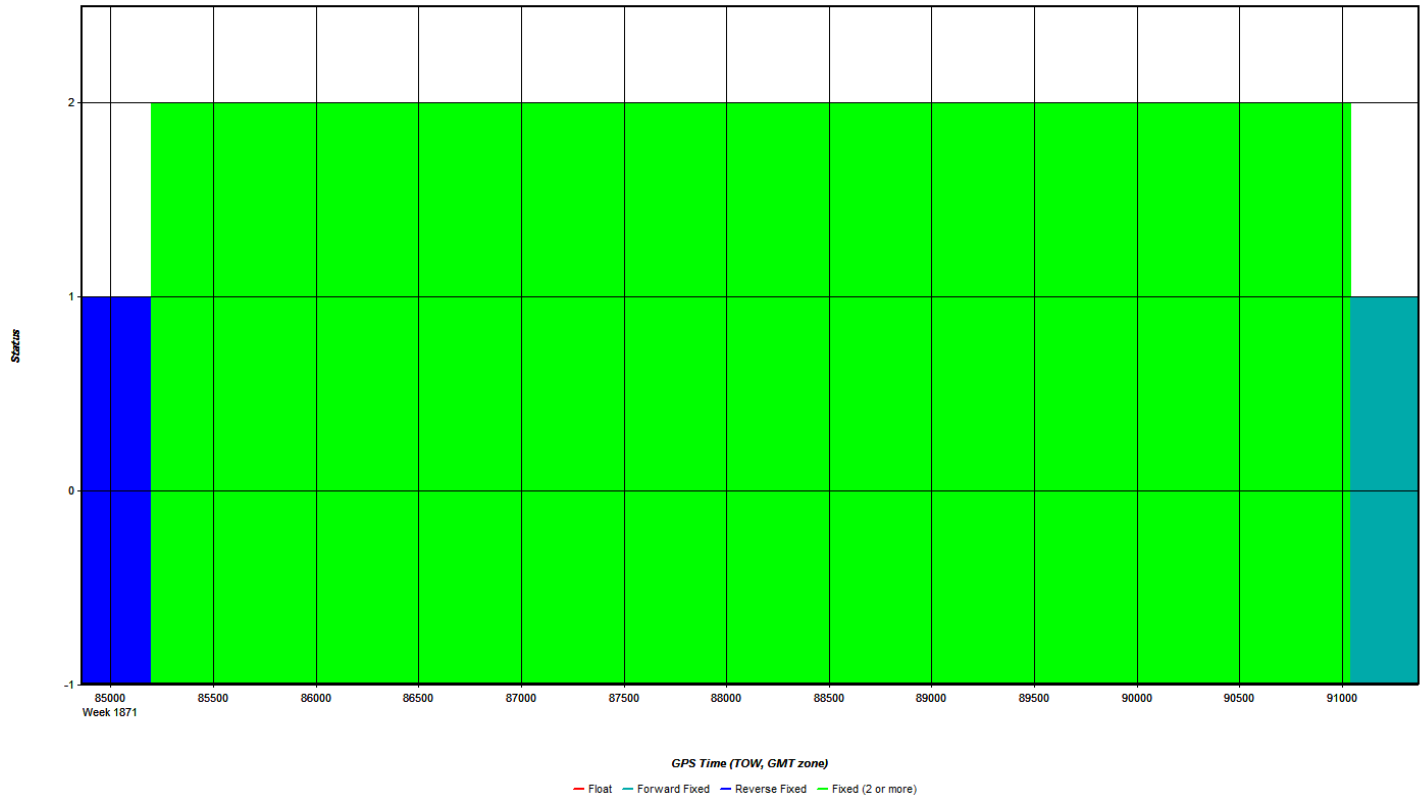


GPS Time (TOW, GMT zone)
— Heading/Azimuth — GPS-COG









Coordinate/Antenna Settings

Master Remote

Base Station
 1: AH8877 Name: AH8877 Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\RAW_Data\R077\

Coordinates
 Latitude: North 43 12 07.23201 Compute from PPP
 Longitude: West 71 30 20.69798 Enter Grid Values
 Ellipsoidal height: 74.193 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

Antenna Height
 From station file: TRMR10, NONE View STA File
 Antenna profile: TRMR10 Info
 Measured height: 2.050 m
 ARP to L1 offset: 0.128 m
 Applied height: 2.178 m
 Measured to:
 ARP
 L1 Phase Centre
 Compute From Slant

OK Cancel


Flight Log

LIDAR Daily Log													
Field Crew			Project #			GPS (m)			Lever Arm				
RCD S DRIVE 013			TBA Quantum			X	Y	Z					
MISSION 3			Concord, NH			-0.110	0.210	-1.220					
Sensor			SENSOR NAVIGATION FILE NAME										
ALS70			20151115_233025										
Reflight	Line	Dir	Start	Stop	Total Time	FOV	Scan Rate	Pulse Rate Hz	Roll Comp	Mult Pulse (Y/N)	Altitude ellipsoid (m)	Altitude ellipsoid (ft)	Speed
	3029	LDR151116_000205	0:02:24	0:11:28	0:09:04	38.6	44.9	136500	YES	N	1957	6421	
	3028	LDR151116_001350	0:14:08	0:22:25	0:08:16	38.6	44.9	136500	YES	N	1873	6145	
	3027	LDR151116_002538	0:25:56	0:34:54	0:08:58	38.6	44.9	136500	YES	N	1912	6273	
	3026	LDR151116_003828	0:38:44	0:46:54	0:08:10	38.6	44.9	136400	YES	N	1897	6224	
	3025	LDR151116_004502	0:50:11	0:59:16	0:09:05	38.6	44.9	136400	YES	N	1786	5960	
	UL001	LDR151116_010147	1:02:06	1:03:36	0:01:30	38.6	44.9	136500	YES	N	1921	6302	

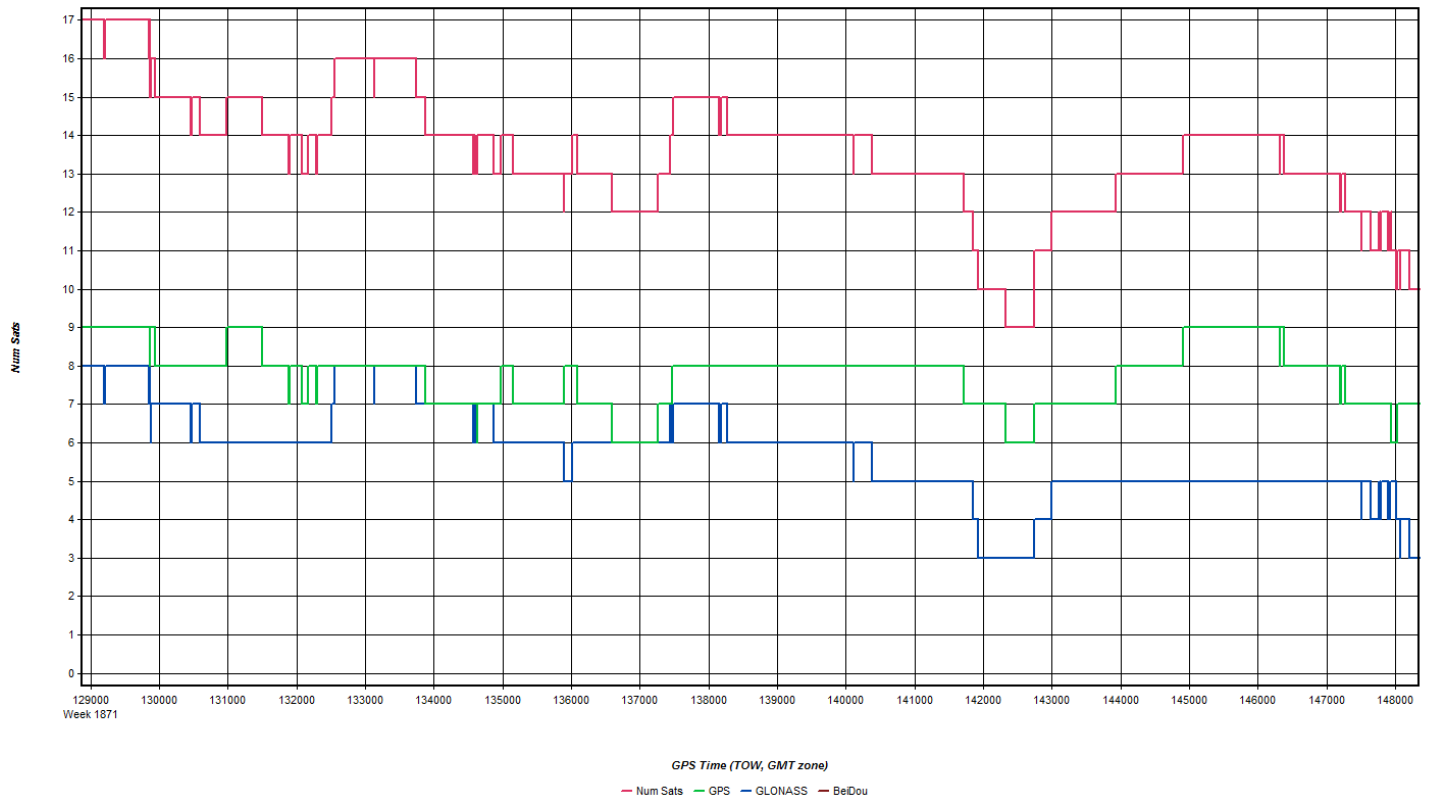
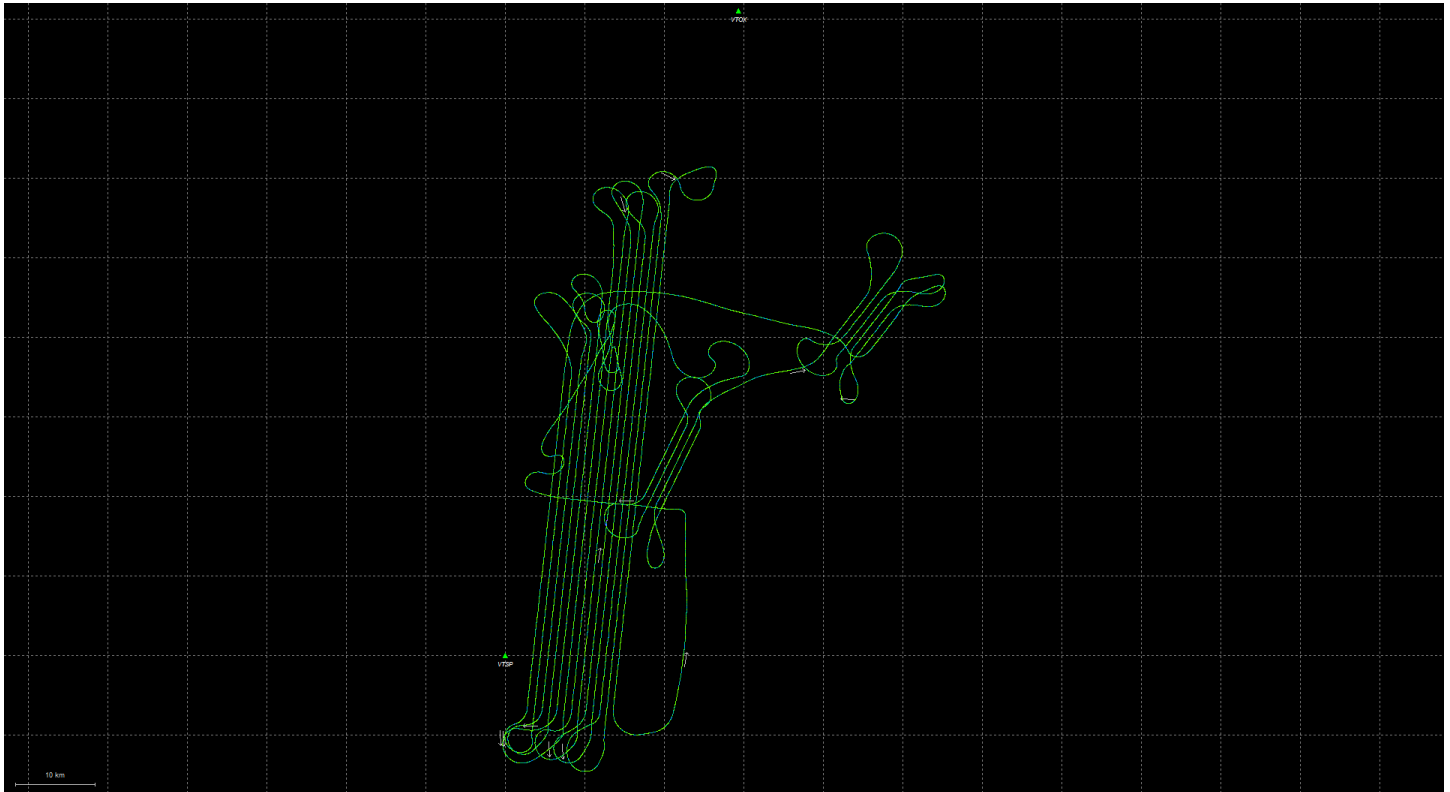
LIDAR FLIGHT SUMMARY				DATA COLLECTION			
Aircraft IMU Time	1:50:30	Hobbs Start	2:08:25	Total Lines	0	Project % Complete	#DIV/0!
Sensor Collection Time	0:45:03	Hobbs Stop	2:68:46	# Reflight Lines	0	Total Flight Lines	0
Line Miles Flown	0.0	Hobbs Total	2.1	Refight Percent	#DIV/0!	Line Complete	0
Average Flight Lines Speed	0 KTS	Mission Hobbs	#DIV/0!	Sensor Re-Flight Miles	0.0	Mission Lines	0
		Reflight Hobbs	#DIV/0!				

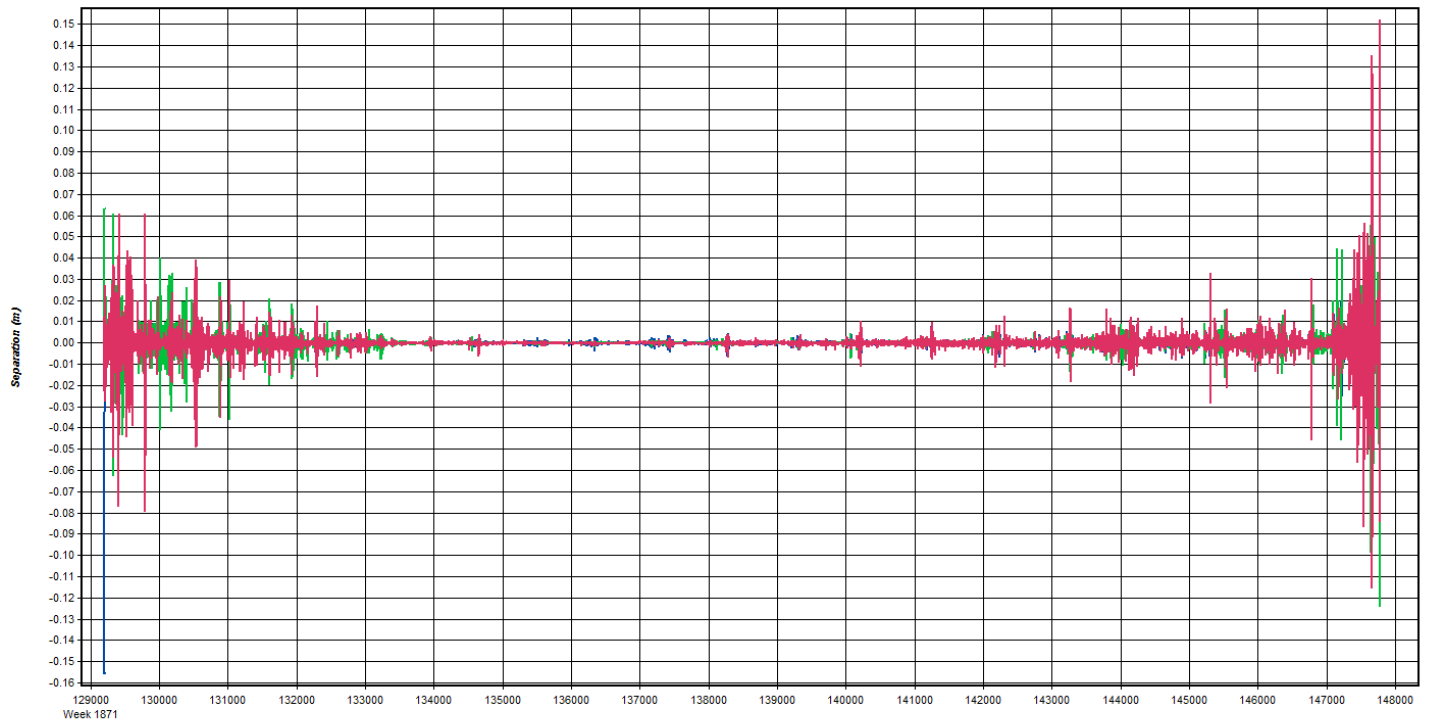
Base Station Log

GPS SESSION FORM

Contract # / TO #		Client / Project Name		Date	
		Quantum- Concord M3		15-Nov-2015	
PAR Project No.		Survey Firm		Operator Name	
		PAR, LLC		Parker	
Monument Name/Designation			Exact Stamping (photo in survey report)		
CONCORD CBL 150			150 M		
Monument No./PID		Collection Type (circle one)		File Name (receiver generated)	
AH8877		<input checked="" type="radio"/> ABGPS <input type="radio"/> STATIC <input type="radio"/> RTK		19823192.T02	
Receiver Manufacturer		Receiver Model		Receiver Serial No.	
Trimble		R10		5252421982	
Data Collector Manufacturer		Data Collector Model		Data Collector Serial No.	
Trimble		Ranger/TSC3		354114046299449	
Antenna Part No.		Antenna Model		Antenna Serial No.	
Starting Antenna Height in Feet		Starting Antenna Height in Meters		Type of Measurement (circle one)	
1 2 3 AVG 2.050 2.050 2.050 2.050				TRUE VERTICAL <input checked="" type="radio"/> ARP	
Ending Antenna Height in Feet		Ending Antenna Height in Meters		Type of Measurement (circle one)	
1 2 3 AVG 2.050 2.050 2.050 2.050				TRUE VERTICAL <input checked="" type="radio"/> ARP	
Antenna Reference Point (diagram in survey report)					
(Antenna Reference Point = VR + VO + VE2) ARP to Phase = 168mm					
Start Date (UTC)		Start Time (UTC)		Approx. Lat. (if available)	
15-Nov-2015		23:16		43 12 07.23201(N)	
End Date (UTC)		End Time (UTC)		Approx. Long. (if available)	
16-Nov-2015		1:30		071 30 20.69798(W)	
Monument is in good condition			Site Diagram/Picture		
Ground Photos					

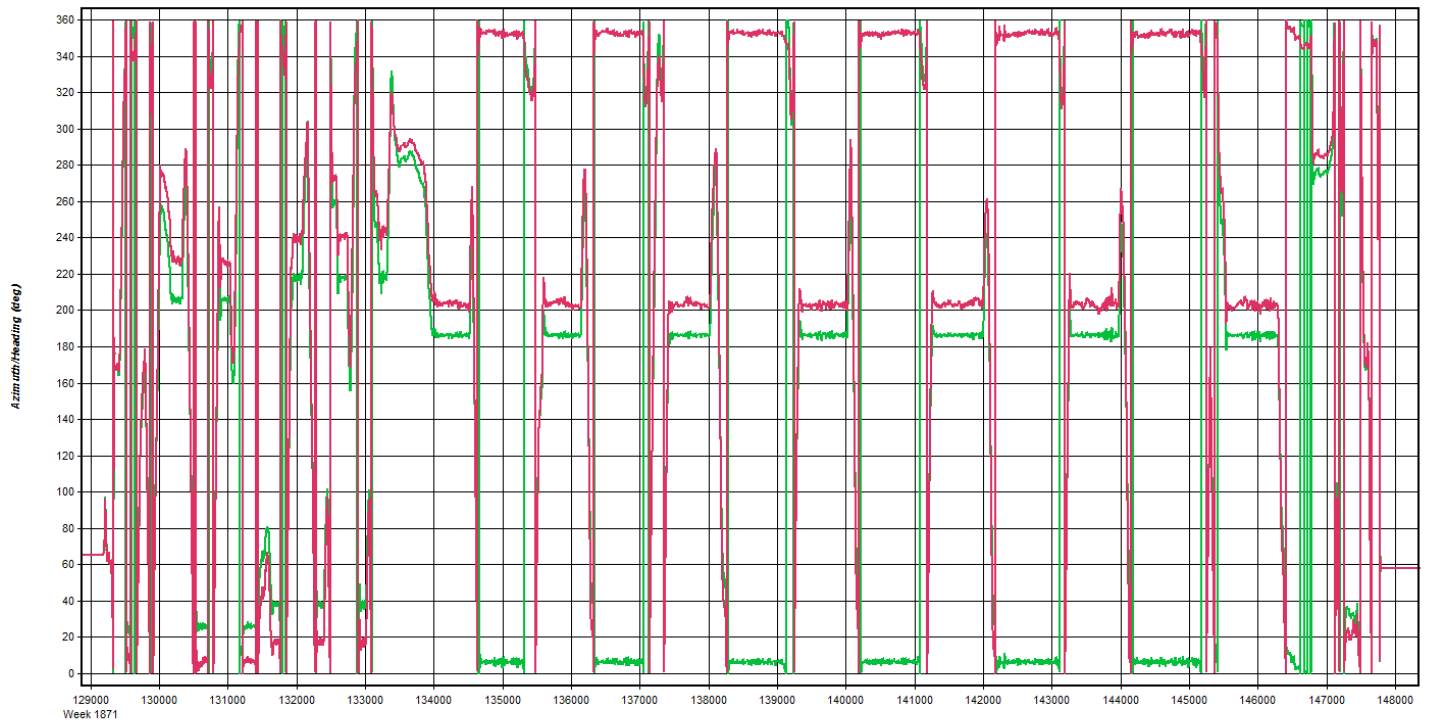
Nov 16, 2015-A (N22GE, SN7178)





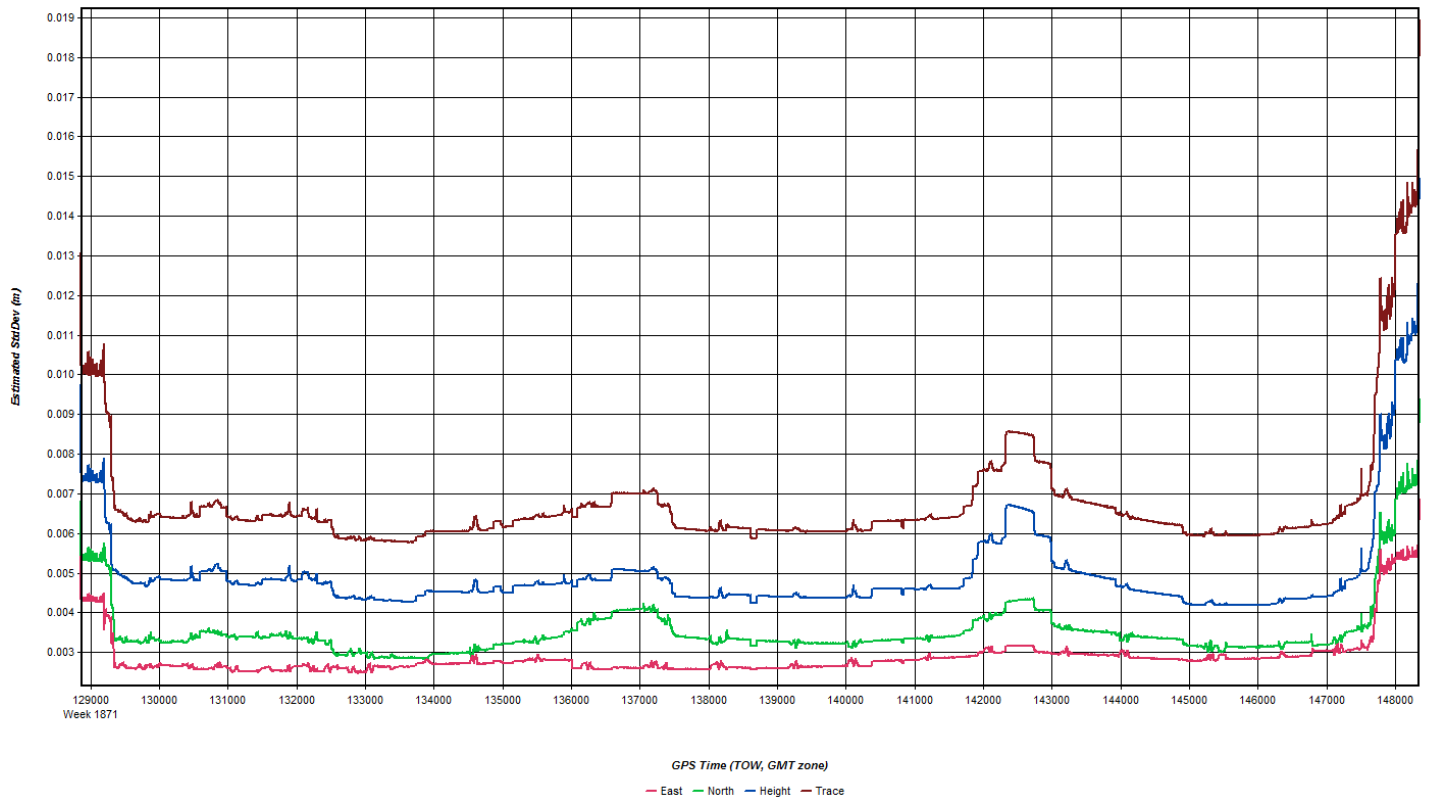
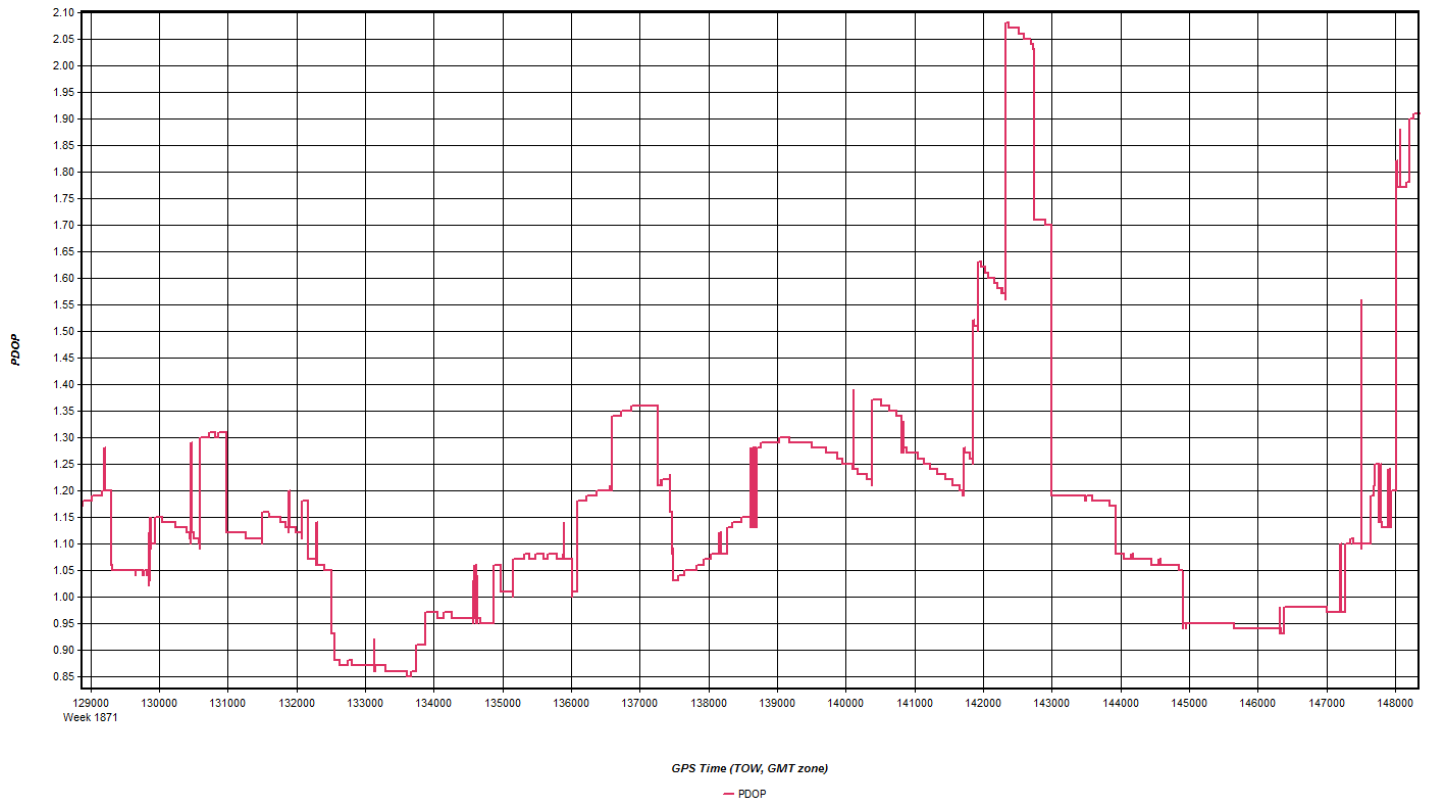
GPS Time (TOW, GMT zone)

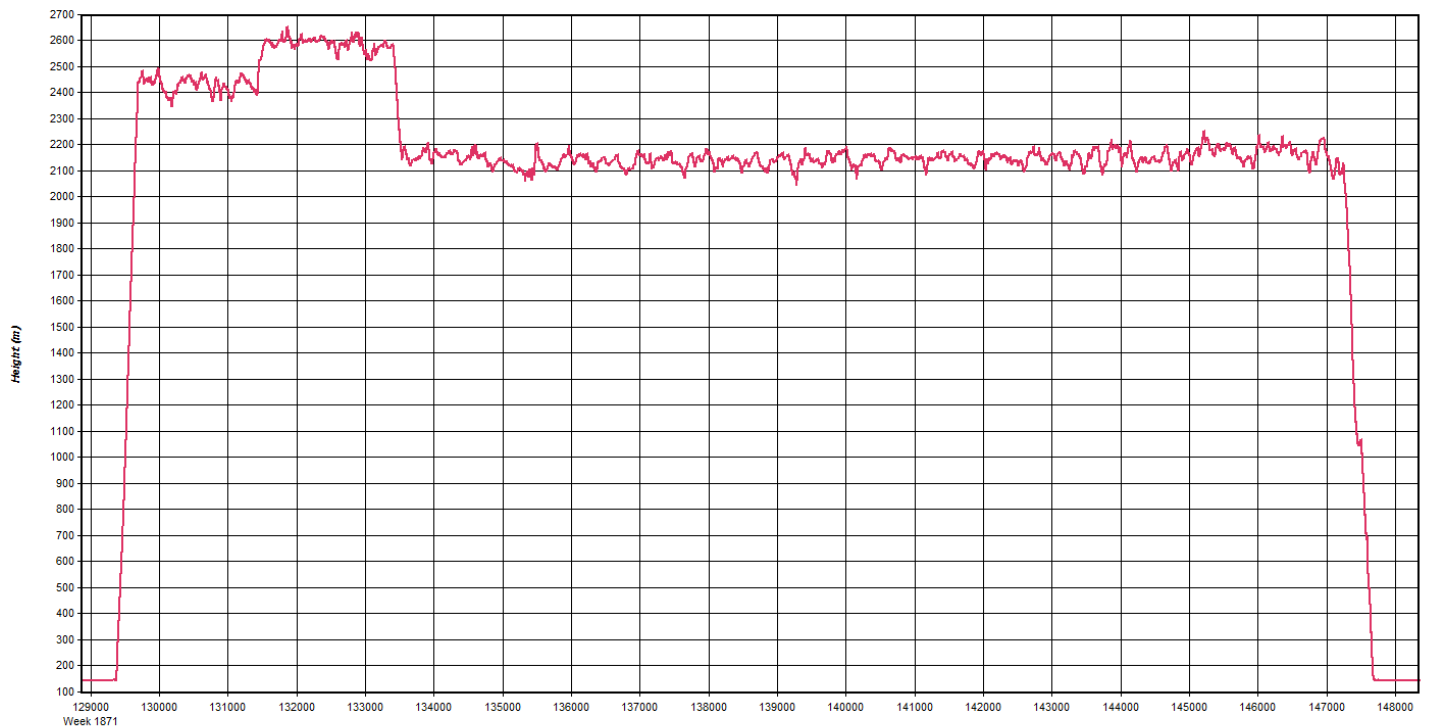
— East — North — Up

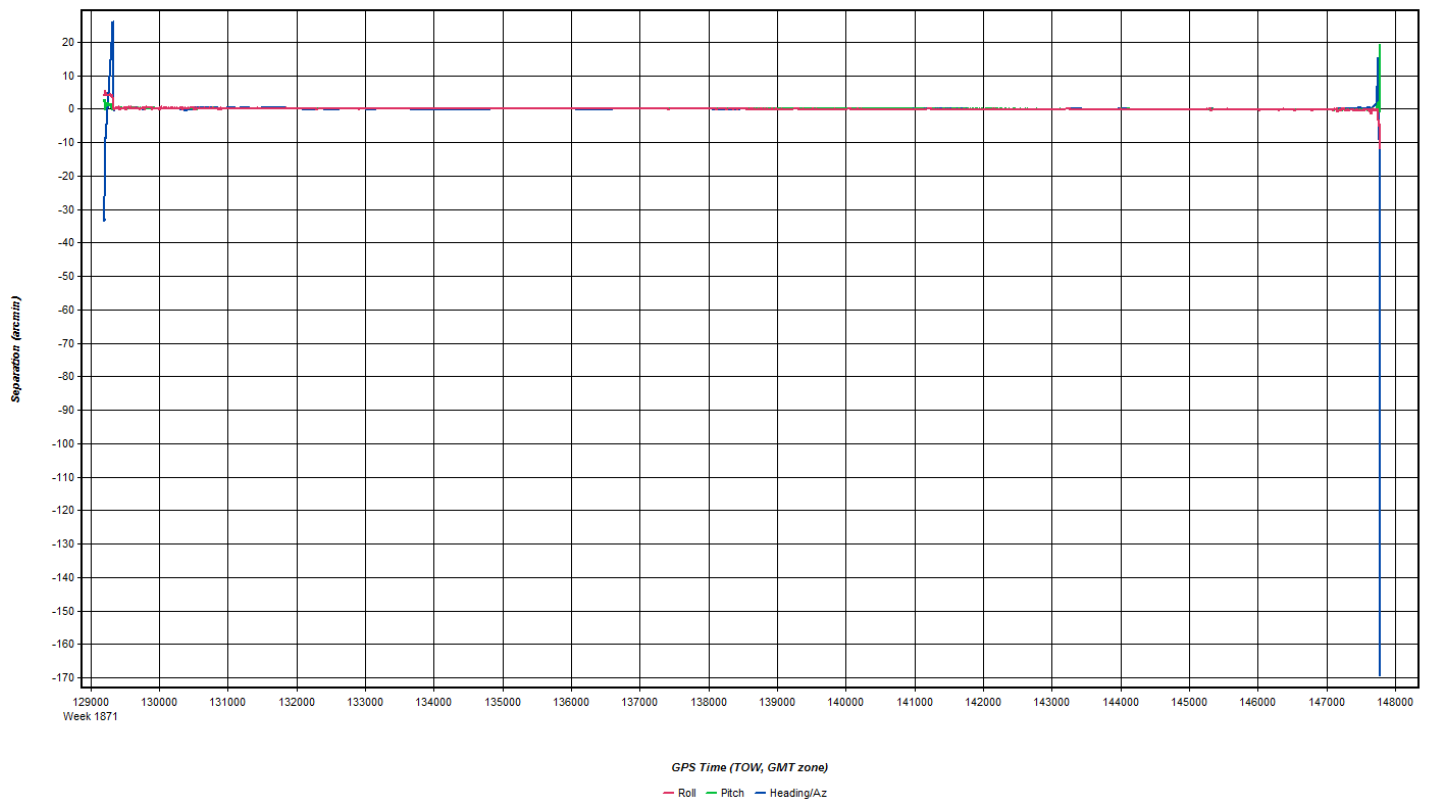
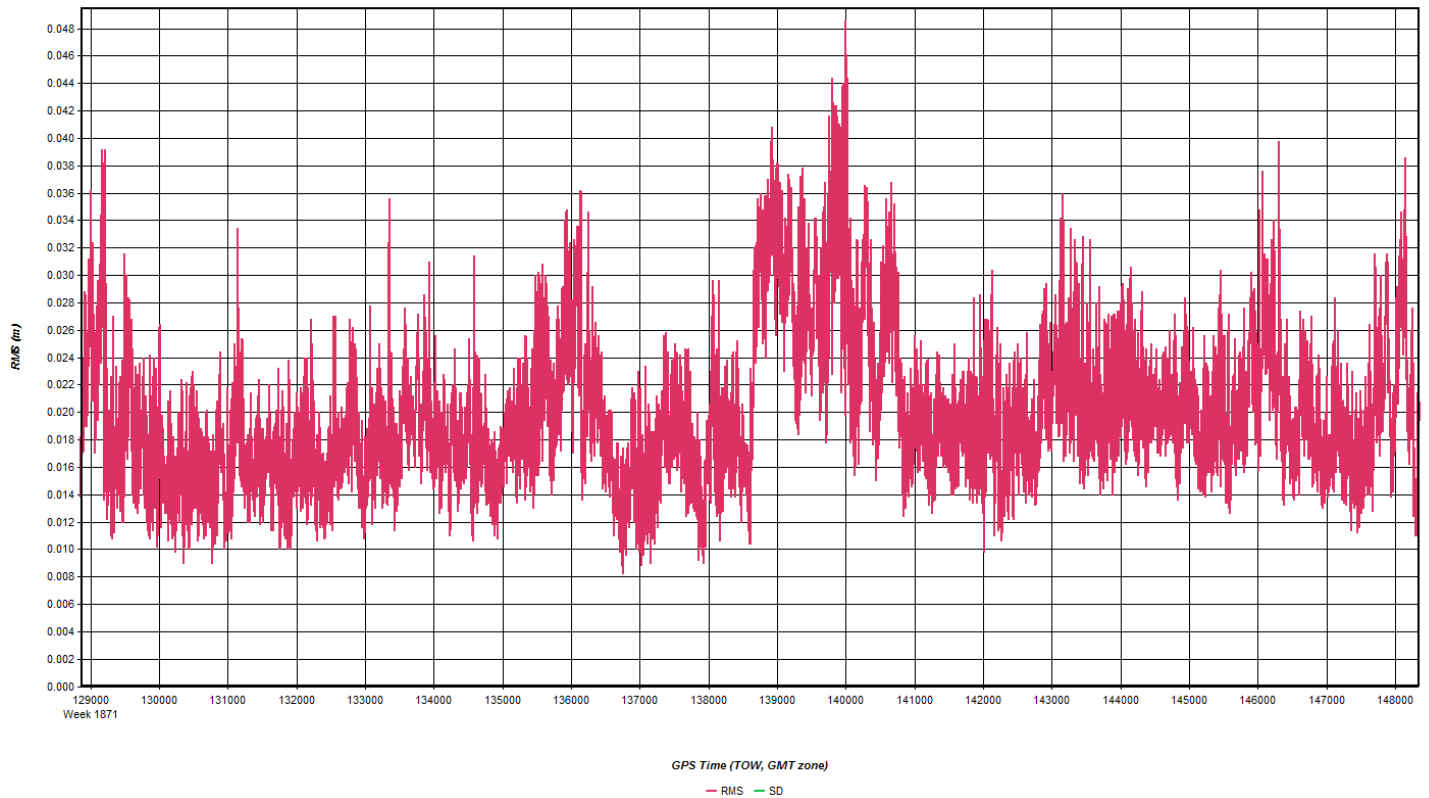


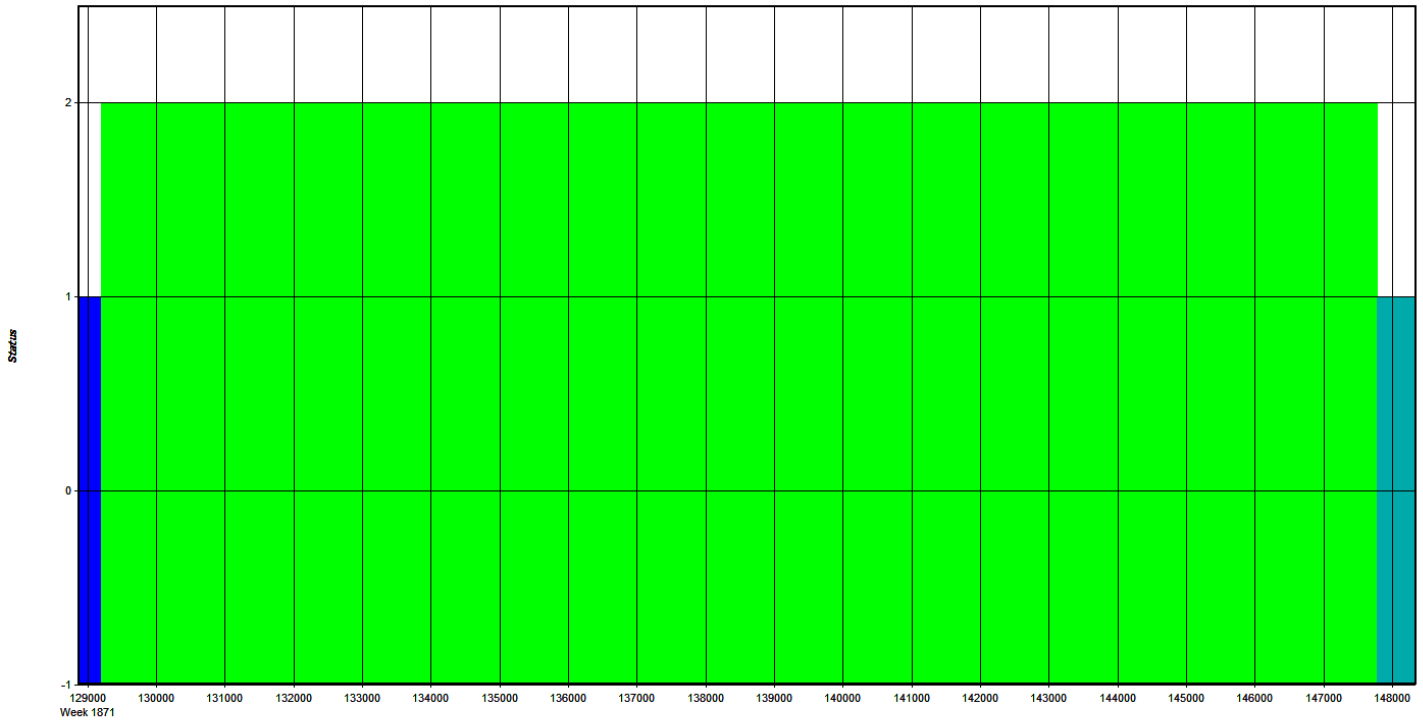
GPS Time (TOW, GMT zone)

— Heading/Azimuth — GPS-COG









Coordinate/Antenna Settings

Master Remote

Base Station
 2: VTOX Name: VTOX Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\RAW_Data\NS6R

Coordinates
 Latitude: North 44 00 28.16564 Compute from PPP
 Longitude: West 72 06 51.60957 Enter Grid Values
 Ellipsoidal height: 126.405 m Enter MSL Height
 Datum: NAD83(2011) 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: VTSP Name: VTSP Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\RAW_Data\NS6R


Coordinates
 Latitude: North 43 16 53.24114 Compute from PPP
 Longitude: West 72 28 39.23841 Enter Grid Values
 Ellipsoidal height: 156.441 m Enter MSL Height
 Datum: NAD83(2011) 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

YYYYMMDD_TIME(GPS) **OPERATORS FLIGHT LOG**

MISSION: 2015116_114451 DATE: 11-16-15 LEICA ALS-70 

PILOT: D Morrison OPERATOR: M Aust AIRCRAFT: 229E SENSOR: 7178


PROJECT NUMBER AND NAME	LINE			GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (m)	TIME		MM70 DRIVE	REMARKS
	No.	Lbl	Hdg							START	STOP		
26218	4058	306°	146	41	40	264	255	8.0 th	1210	1211		WIND 306° @ 53 kts	
CT RIVER	4059	26°	130						1212	1218			
USGS	4060	206°	160						1221	1223		WIND 304° @ 57 kts	
	4061	26°	146						1227	1229			
	4066	38°	156					8.5 th	1234	1235			
	4067	218°	141						1239	1241		WIND 304° @ 60 kts	
	4070	38°	158						1245	1242			
	4071	218°	131						1250	1257			
	4072	38°	143						1255	1252			
	4073	218°	126						1300	1301			
	4001	186°	171					7.0 th	1313	1321		WIND 305° @ 61 kts	
	4002	6°	135						1324	1334			
	4003	186°	162						1340	1348			
	4004	6°	124						1352	1403			
	4005	186°	175						1410	1420			
	4006	6°	137						1424	1437			
	4007	186°	174						1442	1453			
	4008	6°	132						1457	1510			
	4009	186	175						1515	1526			

STATUS	TOTAL LINES	FLOWN	LEFT	AIRCRAFT		STATIC	START	STOP	NOTES: PAGE 1 of 2
				SITE	FERRY				
<input type="checkbox"/>	74	51	23	KLE3		5 min	645		
<input type="checkbox"/>						WX HAZE			
<input type="checkbox"/>						OVERCAST			
<input type="checkbox"/>						ABOVE			

Quantum Spatial N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 FAX: 888-253-6695 E-Mail: amepphoto@quantumspatial.com

Scanned by CamScanner

YYYYMMDD_TIME(GPS) OPERATORS FLIGHT LOG

MISSION: 2015116-114451 DATE: 11-12-15 LEICA ALS-70 

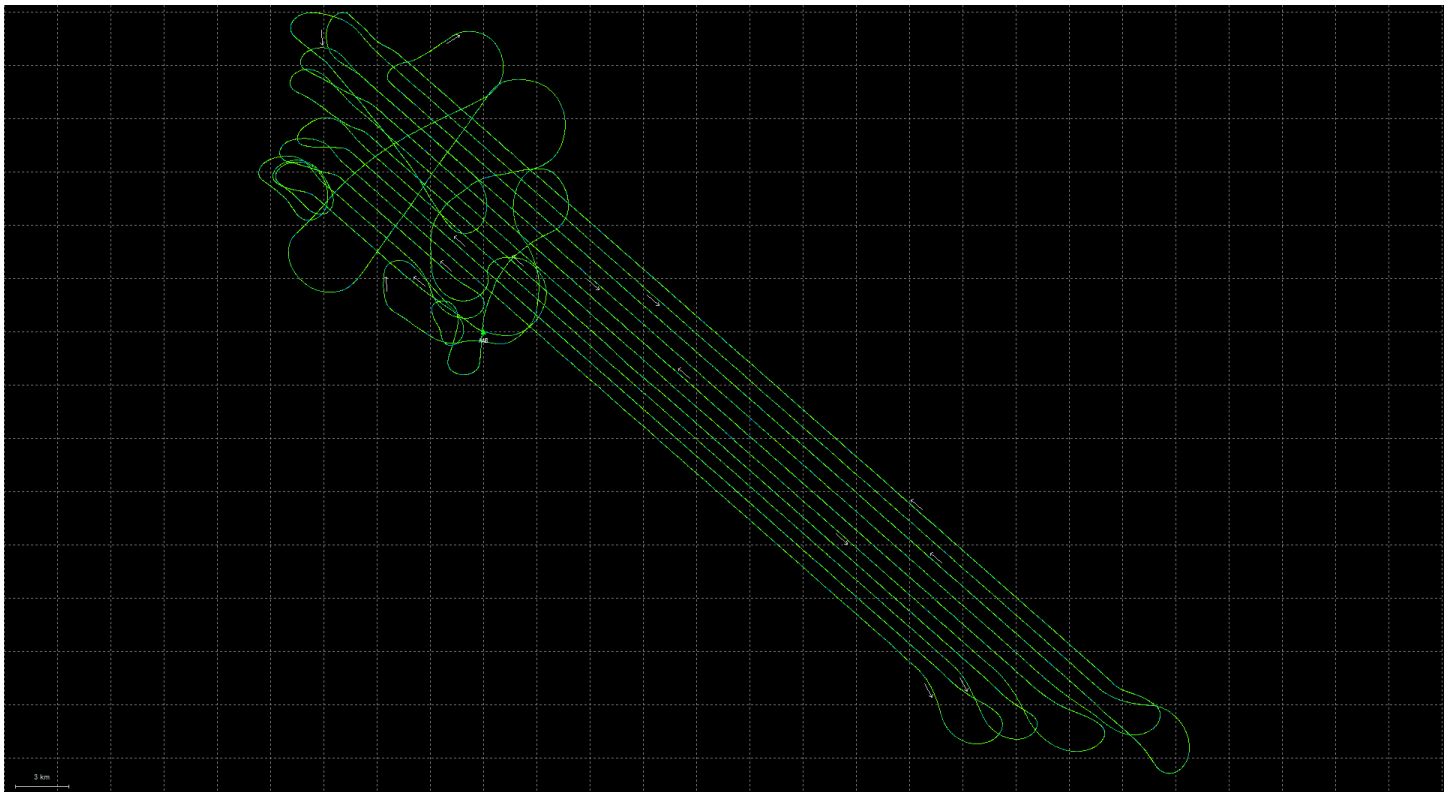
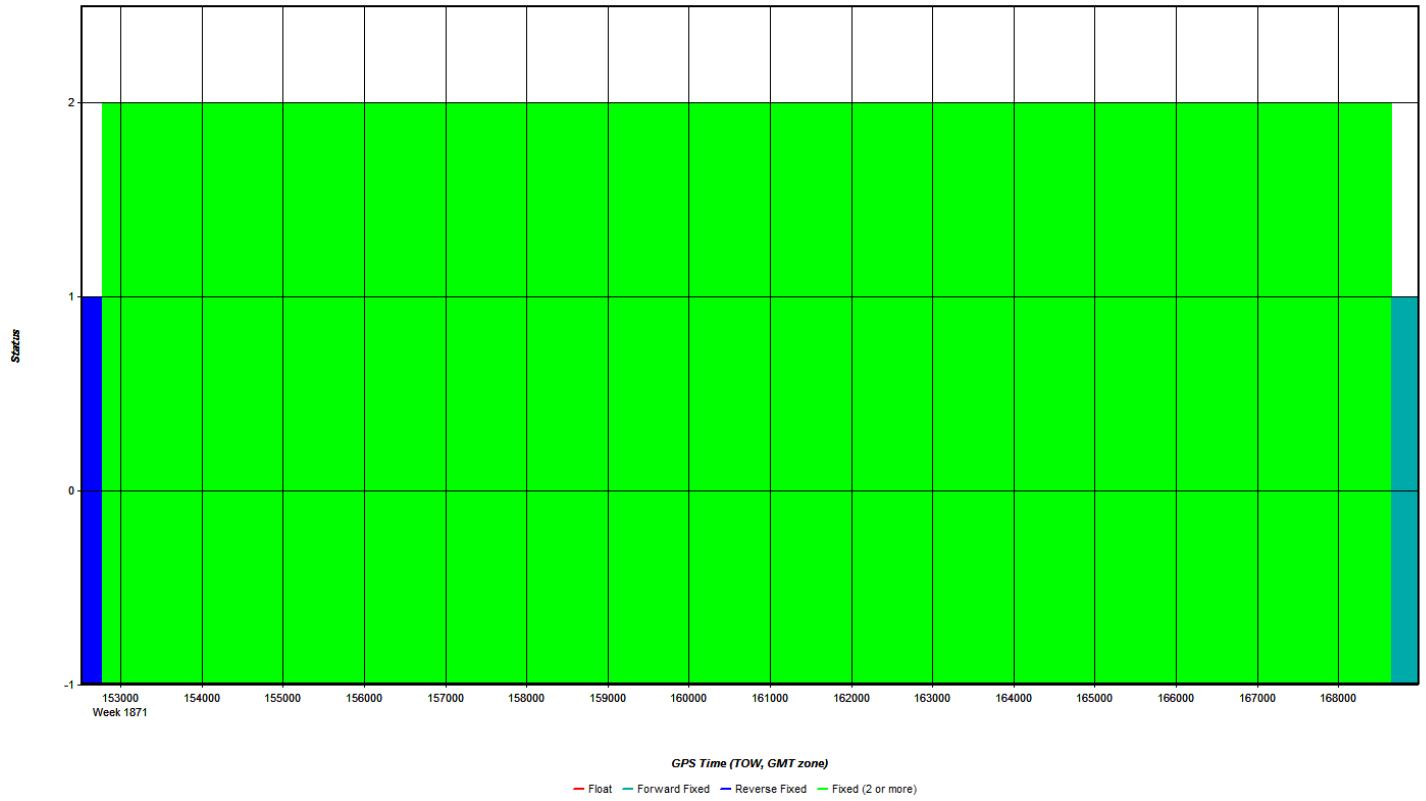
PILOT: D. MORRISON OPERATOR: M. AUST AIRCRAFT: 2066 SENSOR: 7178

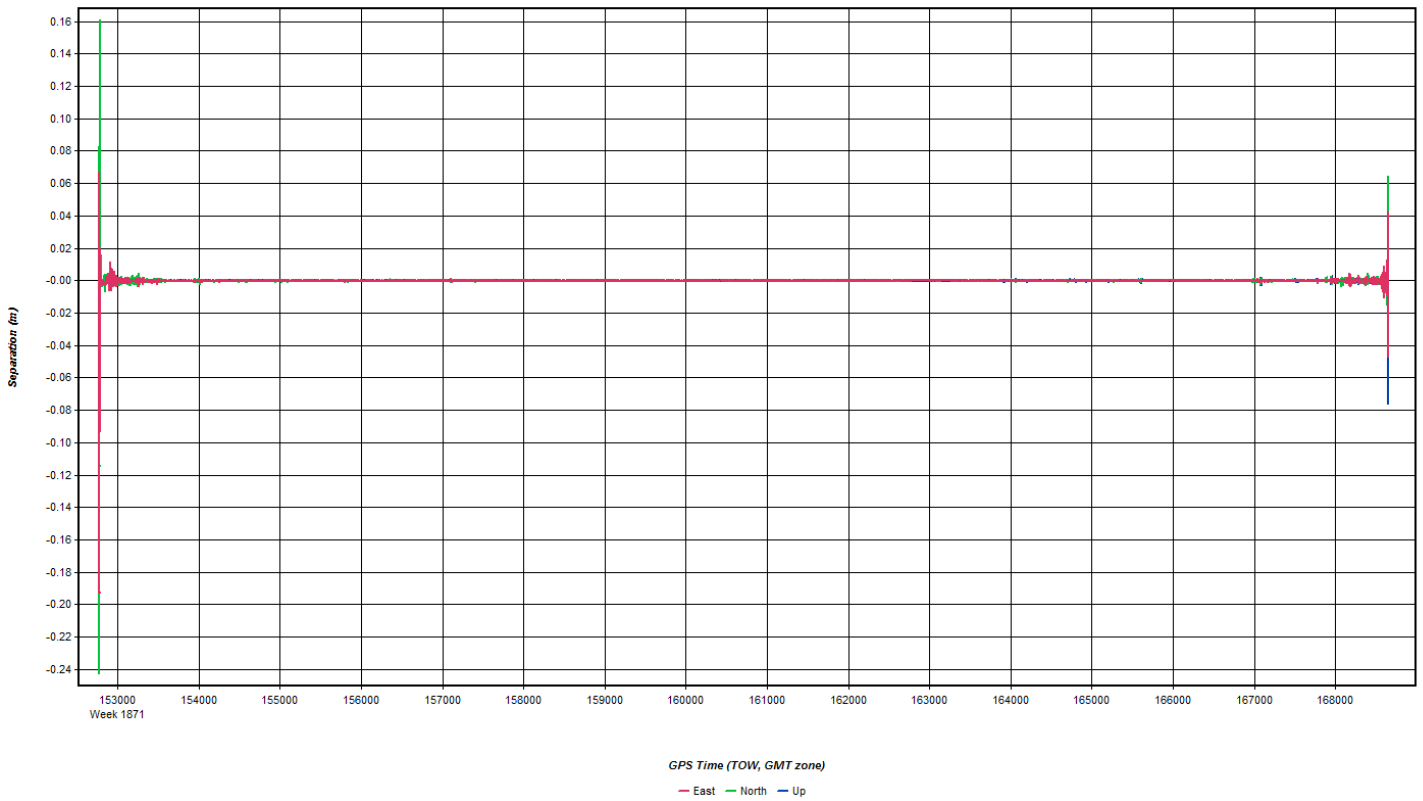
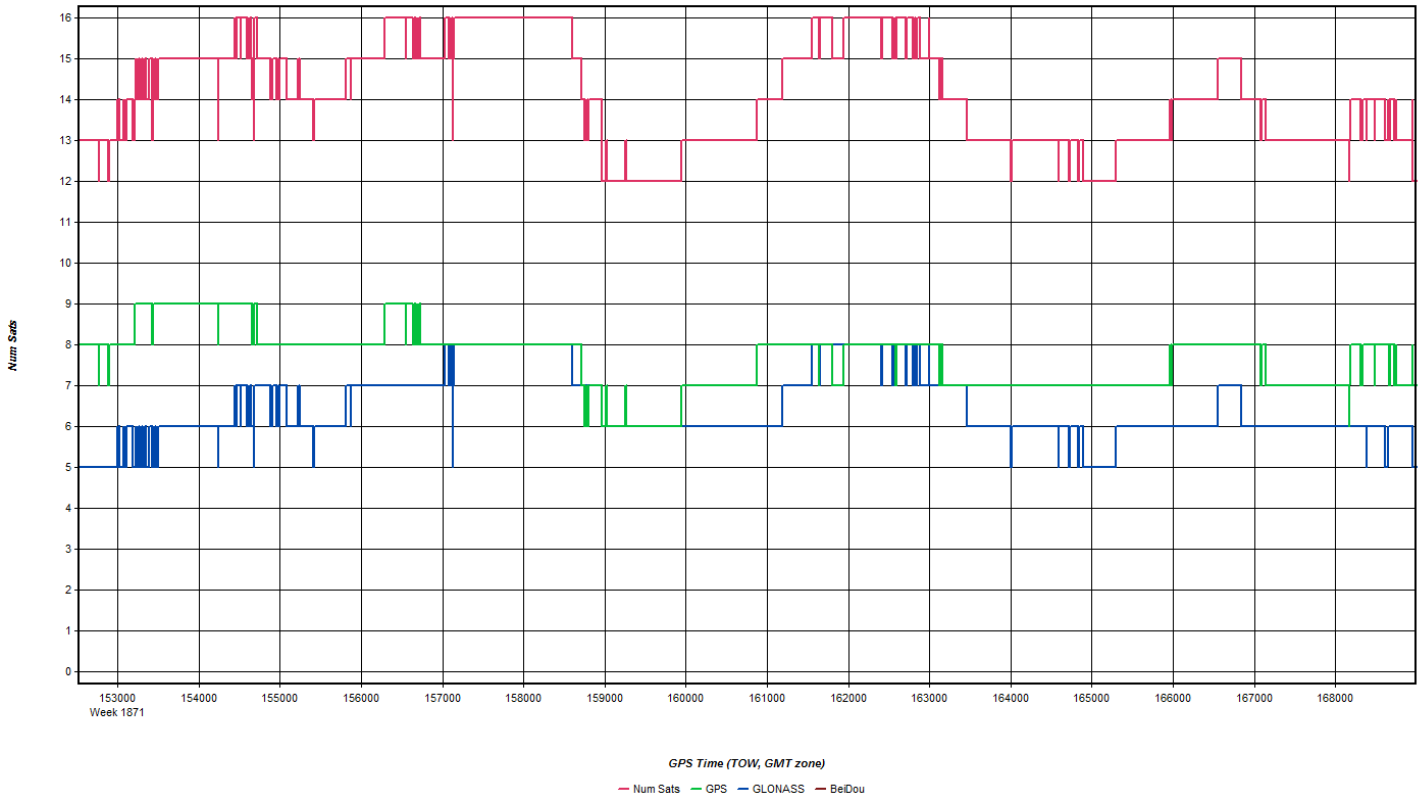
PROJECT NUMBER AND NAME	LINE			GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (m)	TIME		MM70 DRIVE	REMARKS
	No.	Lbl	Hdg							START	STOP		
26818		4010	6°	128	41	40	264	255	7.0°	1530	1544		
CT RIVER		4011	18°	174						1547	1559		
USGS		4012	6°	127						1603	1618		
		4013	186	172						1626	1641		
				119						1642	1651		MANUAL CROSSFLIGHT
AIRCRAFT													
STATUS	TOTAL LINES	FLOWN	LEFT	SITE		FERRY	STATIC	START	STOP	NOTES:			
<input type="checkbox"/>	74	51	23		KLEB		5min	6:45	12:10	PAGE 2 of 2			
<input type="checkbox"/>							WX	HAZE					
<input type="checkbox"/>								OVERCAST					
<input type="checkbox"/>								ABOVE					

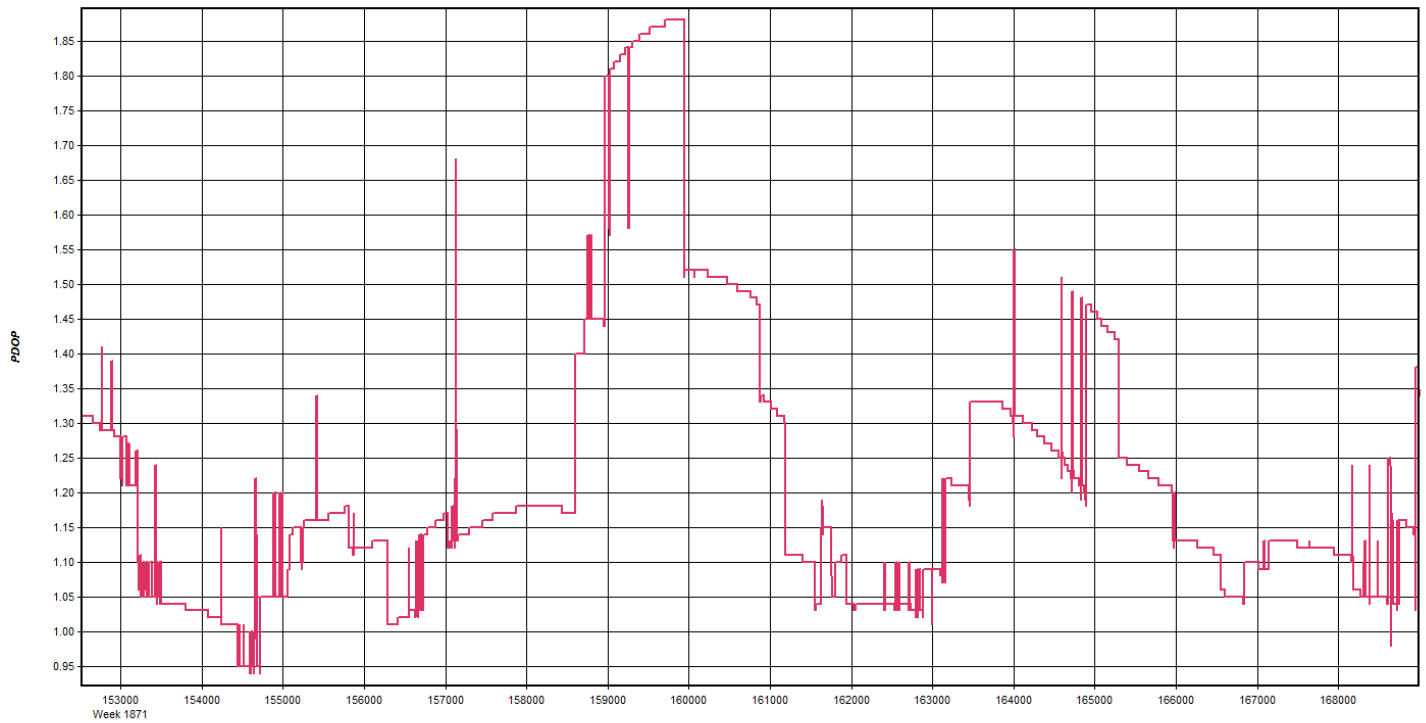
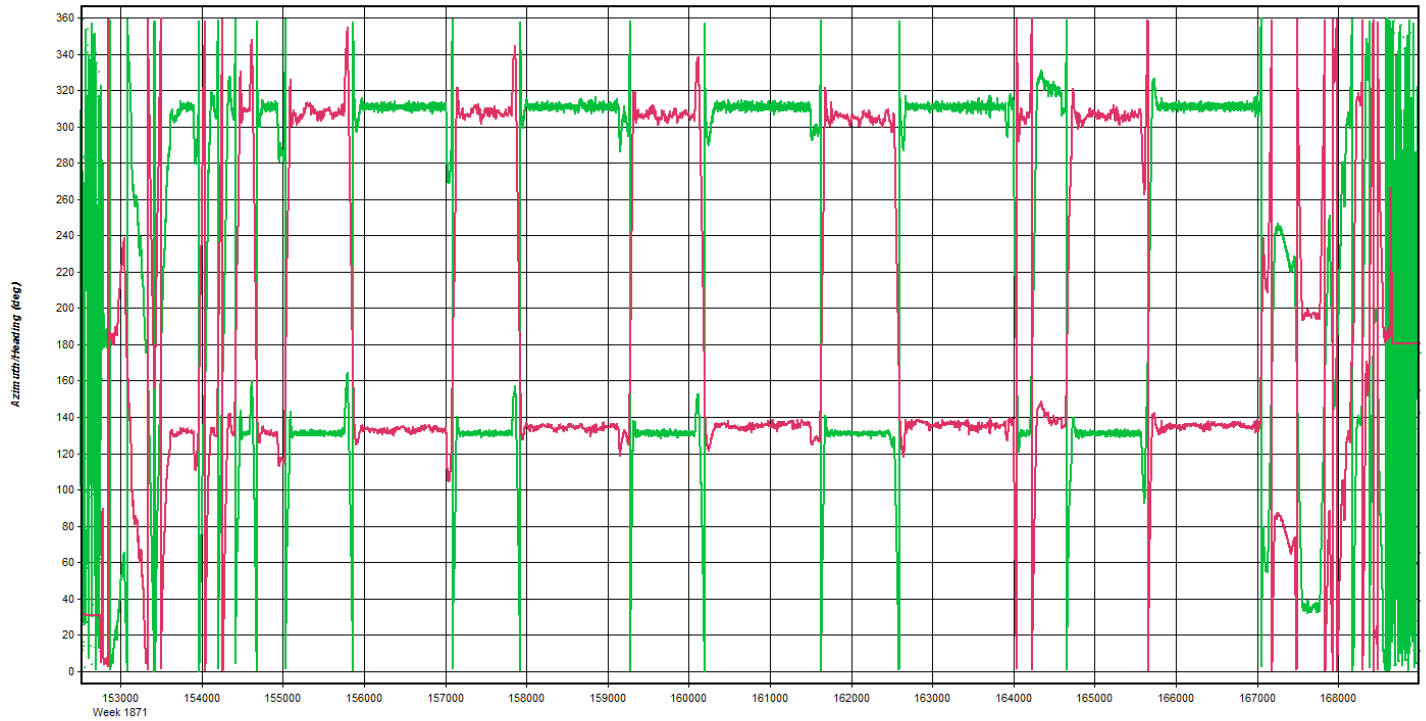
Quantum Spatial N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 FAX: 888-253-6695 E-Mail: amephot@quantumspatial.com

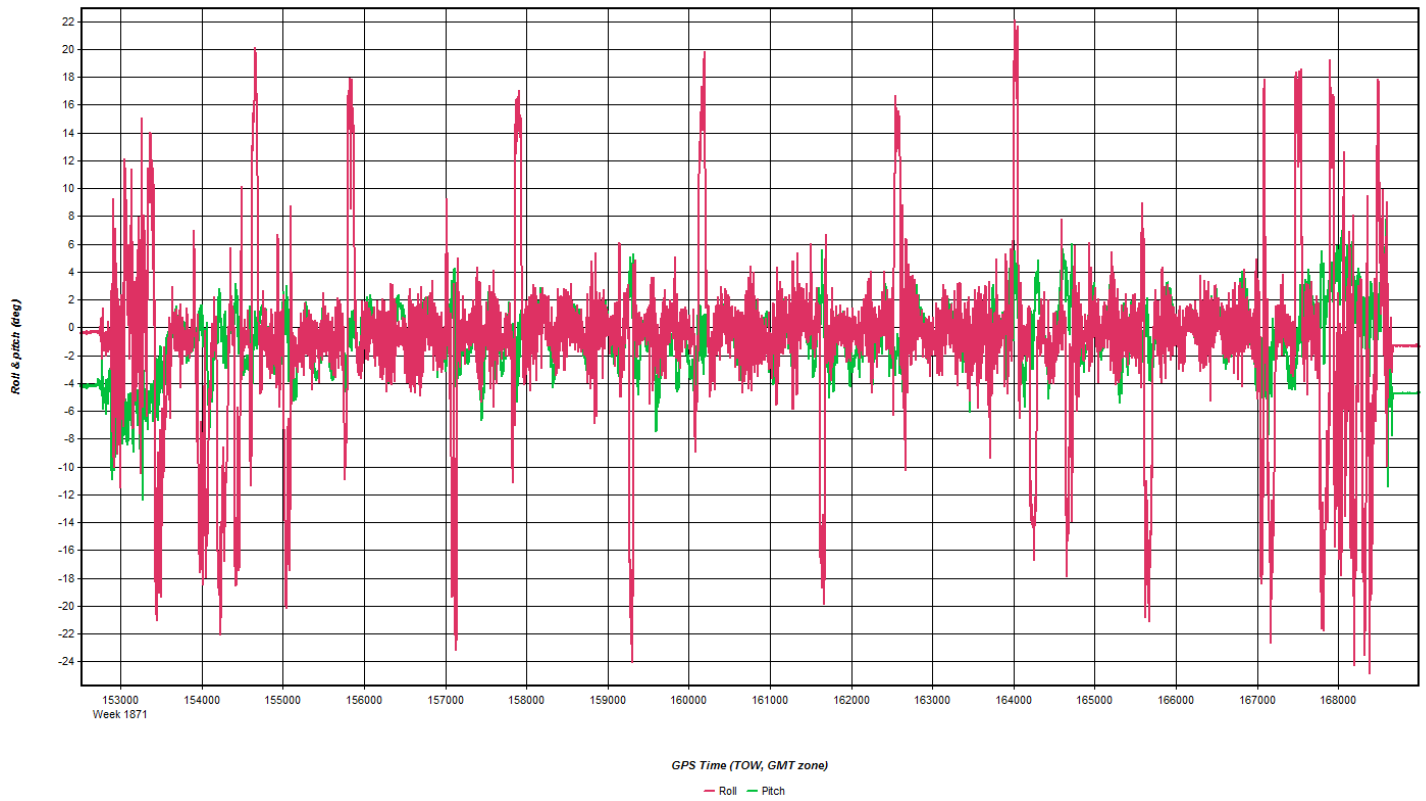
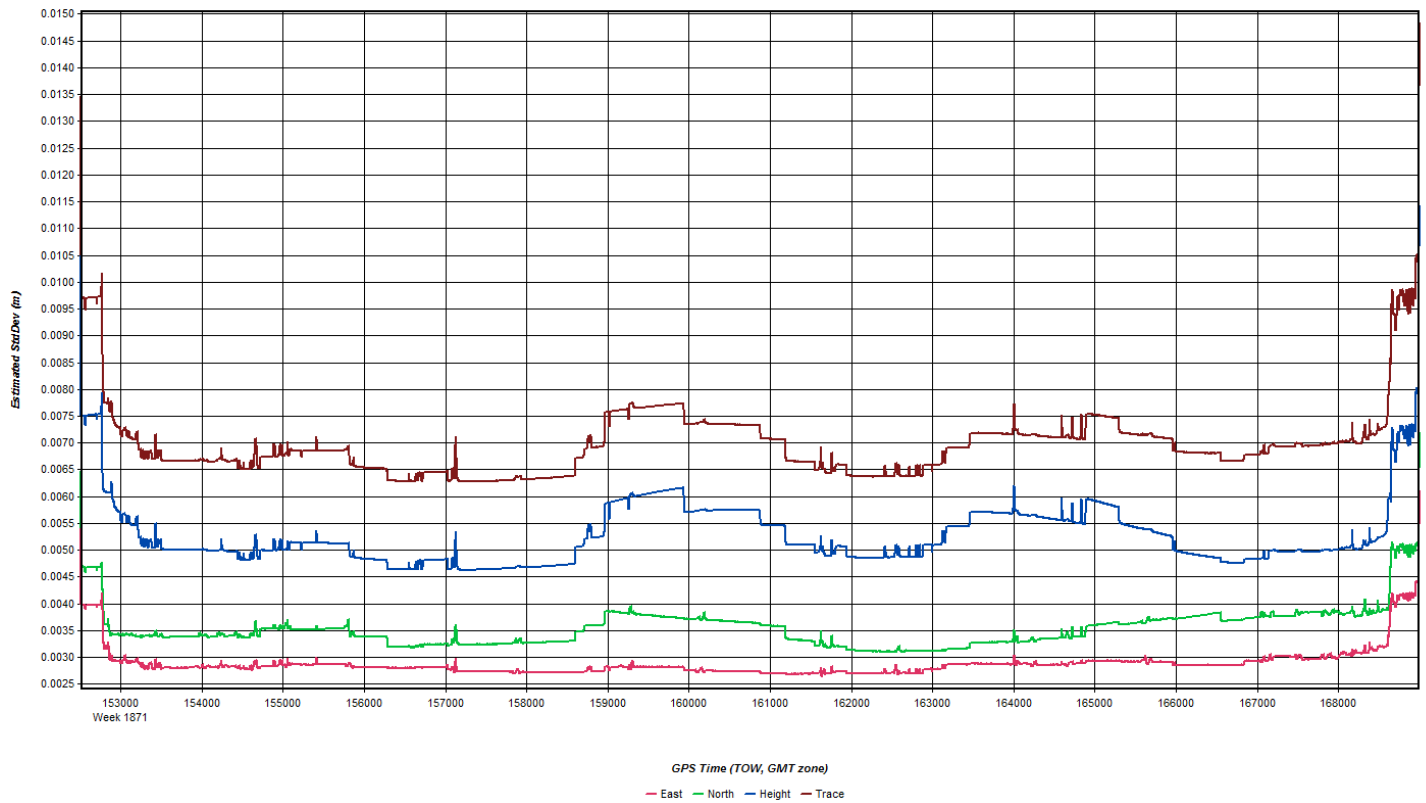
Scanned by CamScanner

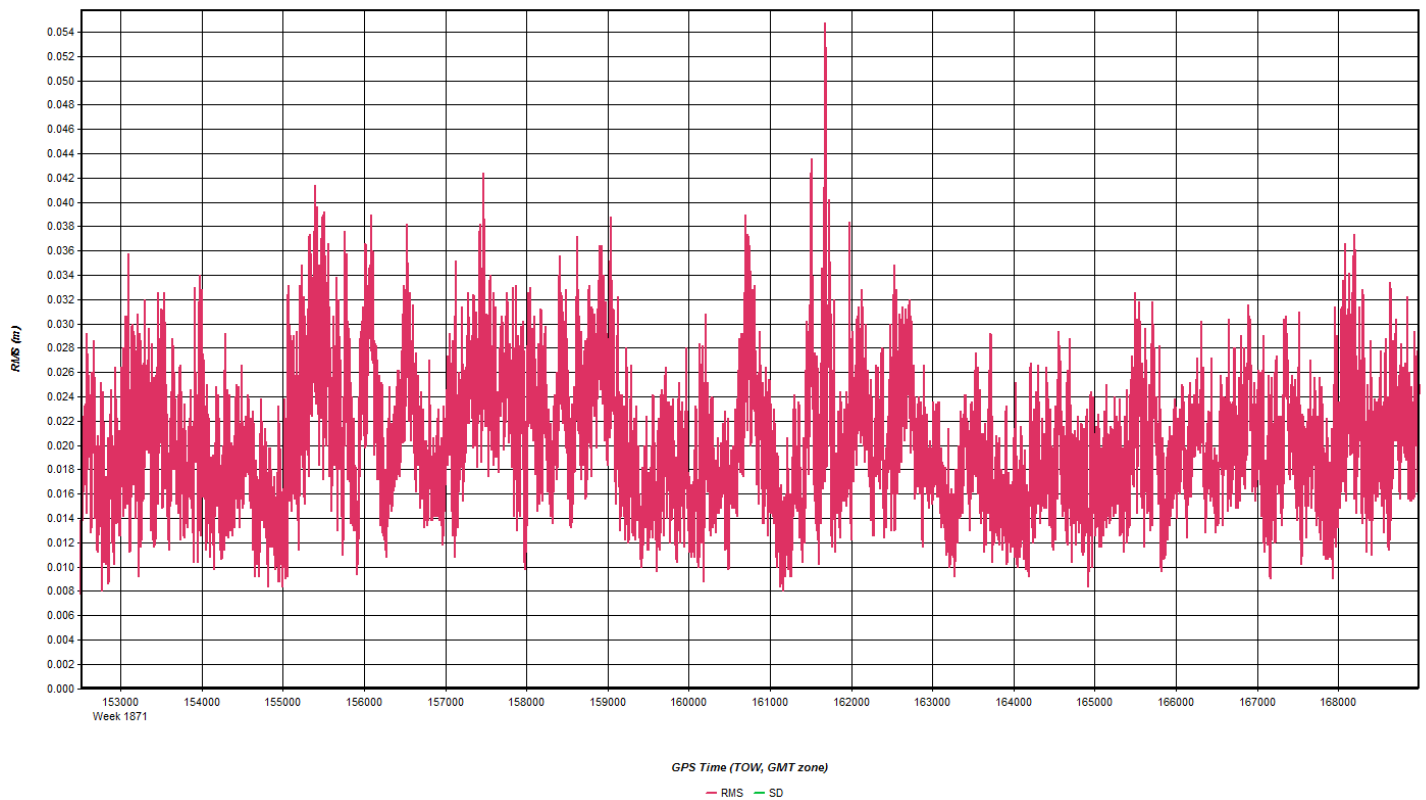
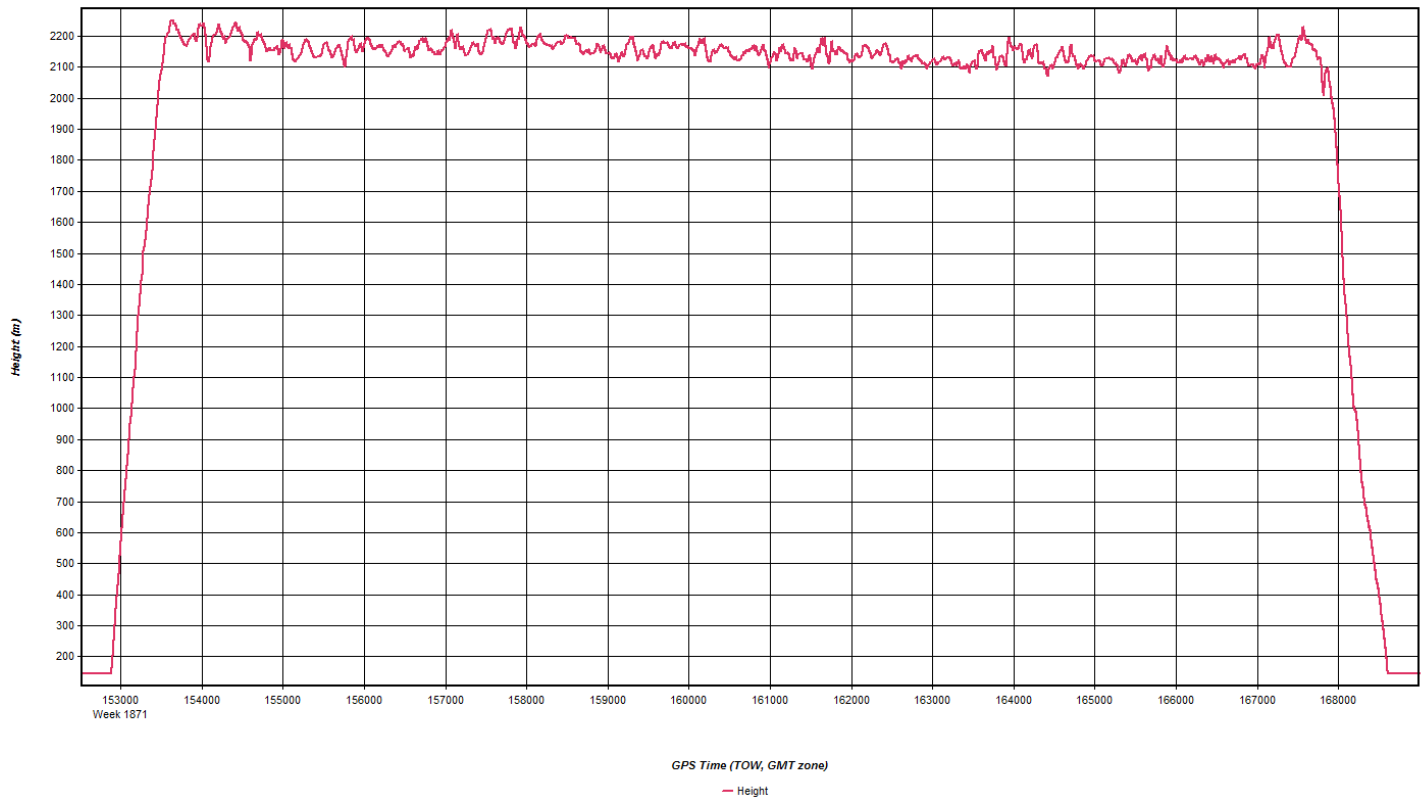
Nov 16, 2015-A (N799AC, SN7169)

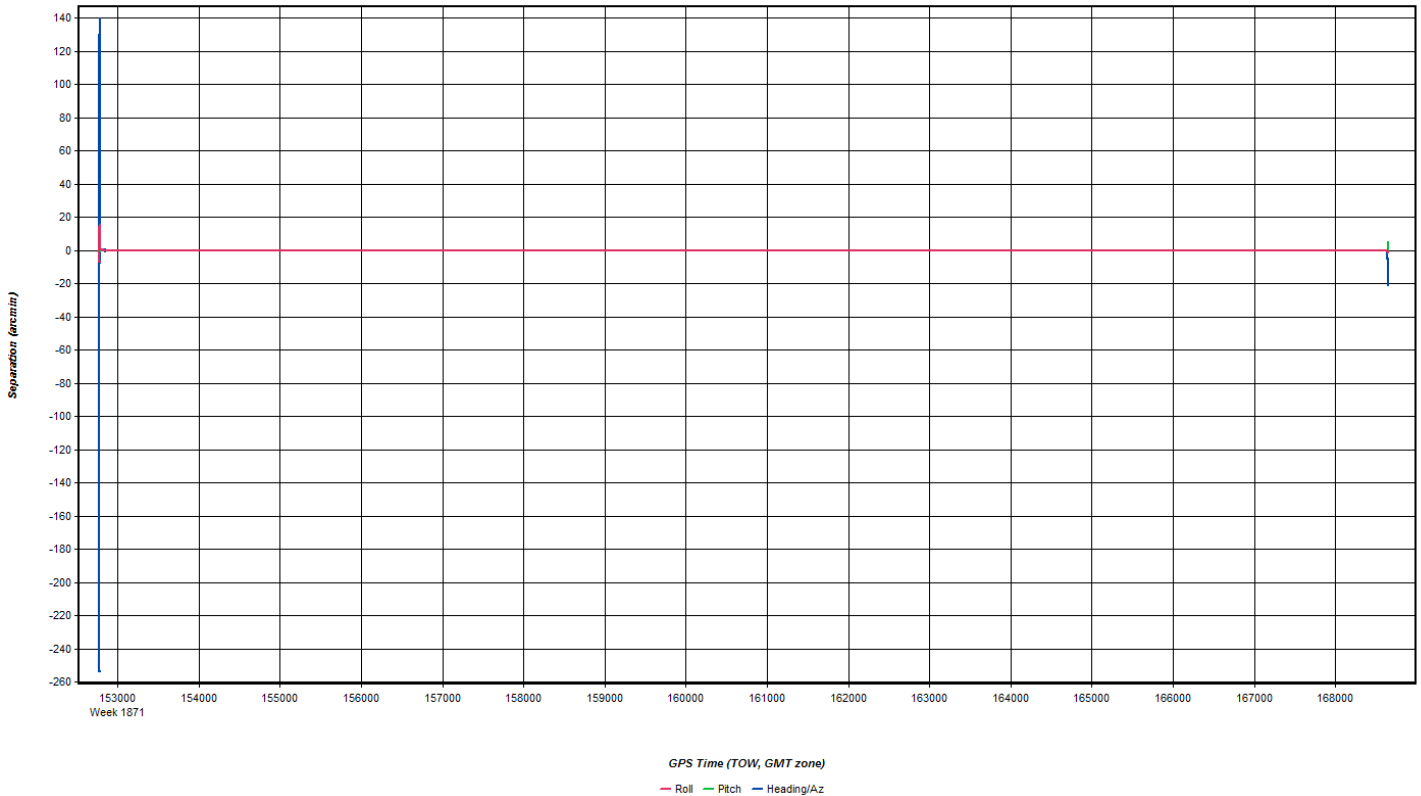












? X

Master Remote

Base Station

1: MB Name: MB Disabled

File: S:\LIDAR\26818_CT_River\26818_CT_River\RAW_Data\R077\

Coordinates

Latitude: North 43 46 04.16098

Longitude: West 71 23 12.42431

Ellipsoidal height: 147.018 m

Datum: NAD83(2011)

Antenna Height

From station file: TRMR10, NONE

Antenna profile: TRMR10

Measured height: 2.050 m

ARP to L1 offset: 0.128 m

Applied height: 2.178 m

Measured to

ARP

L1 Phase Centre

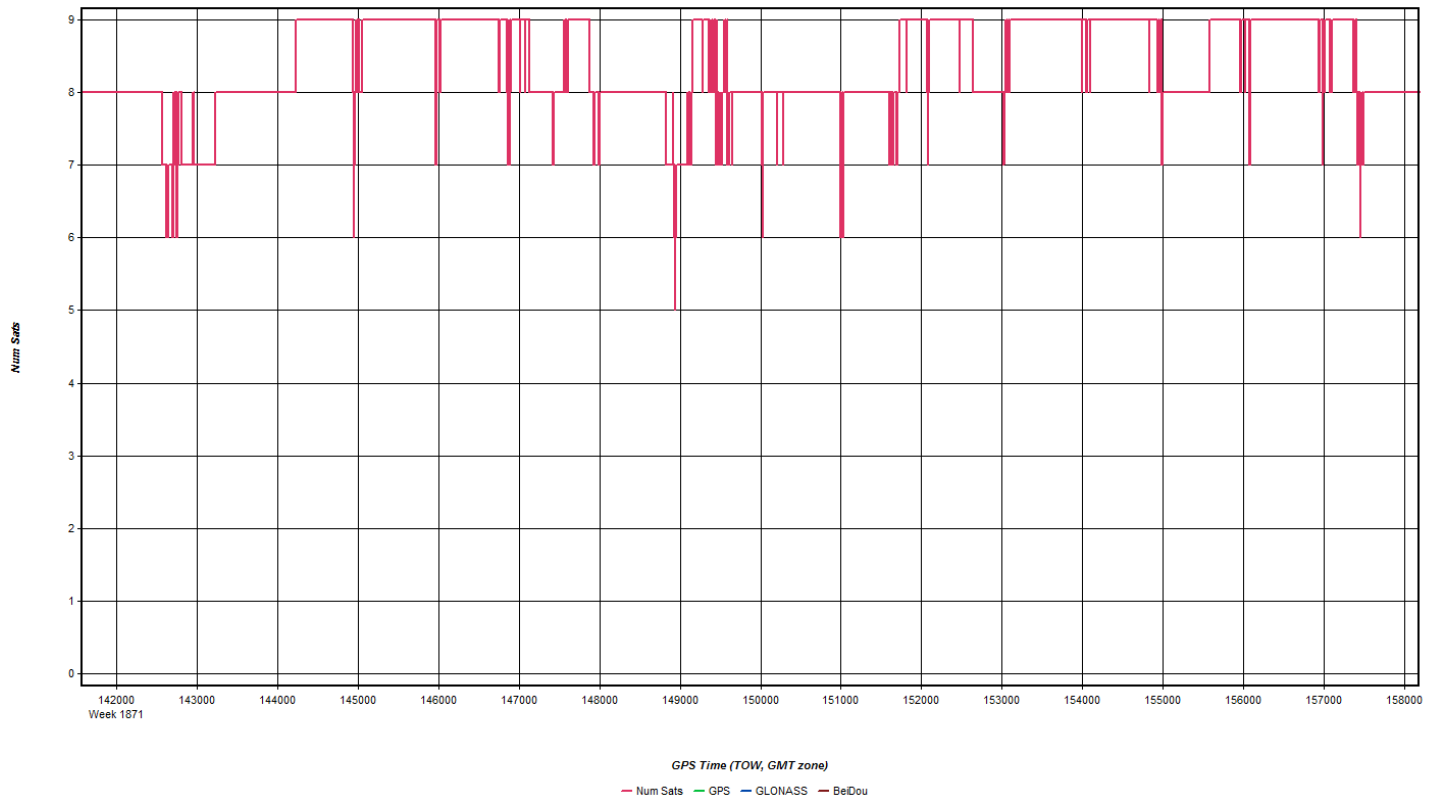
Flight Log

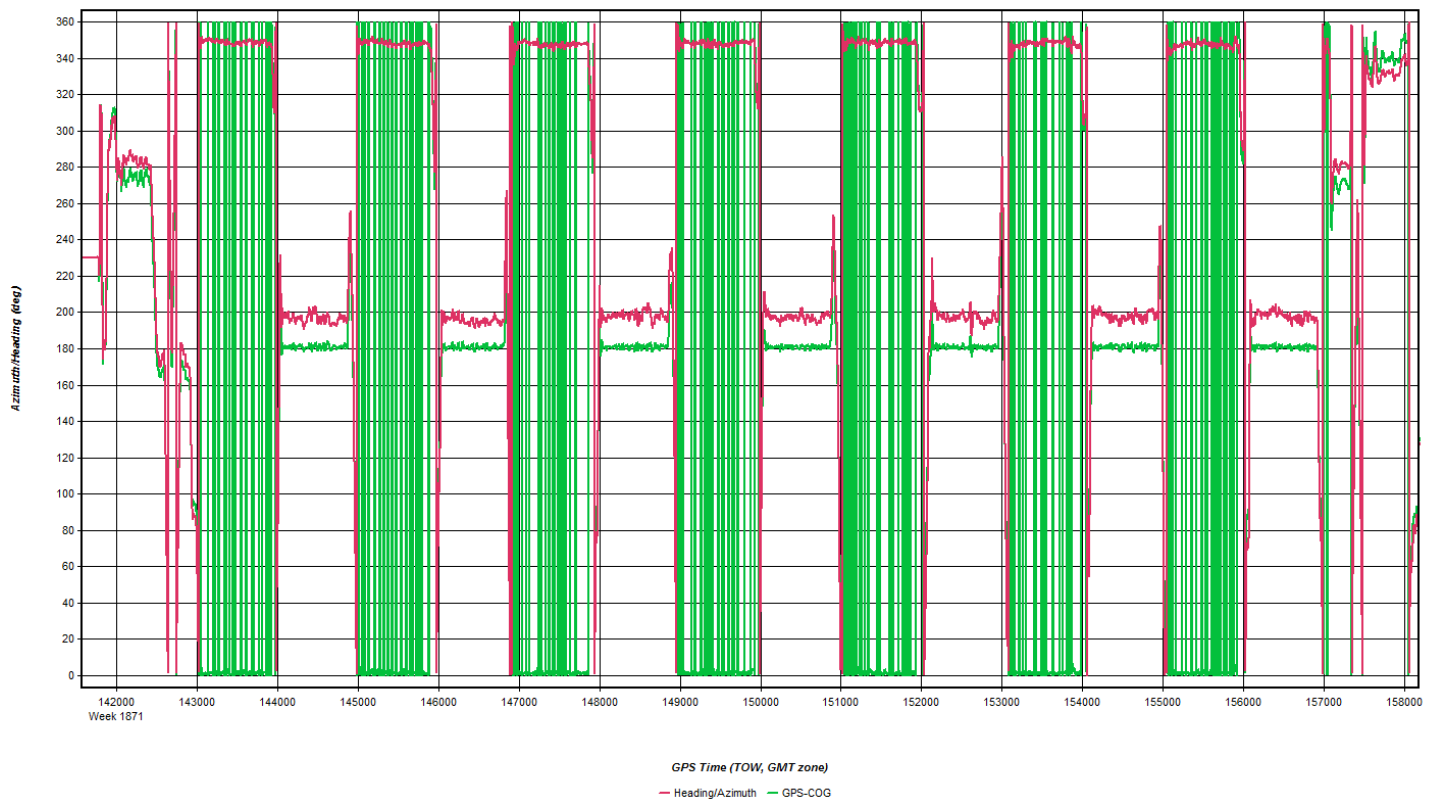
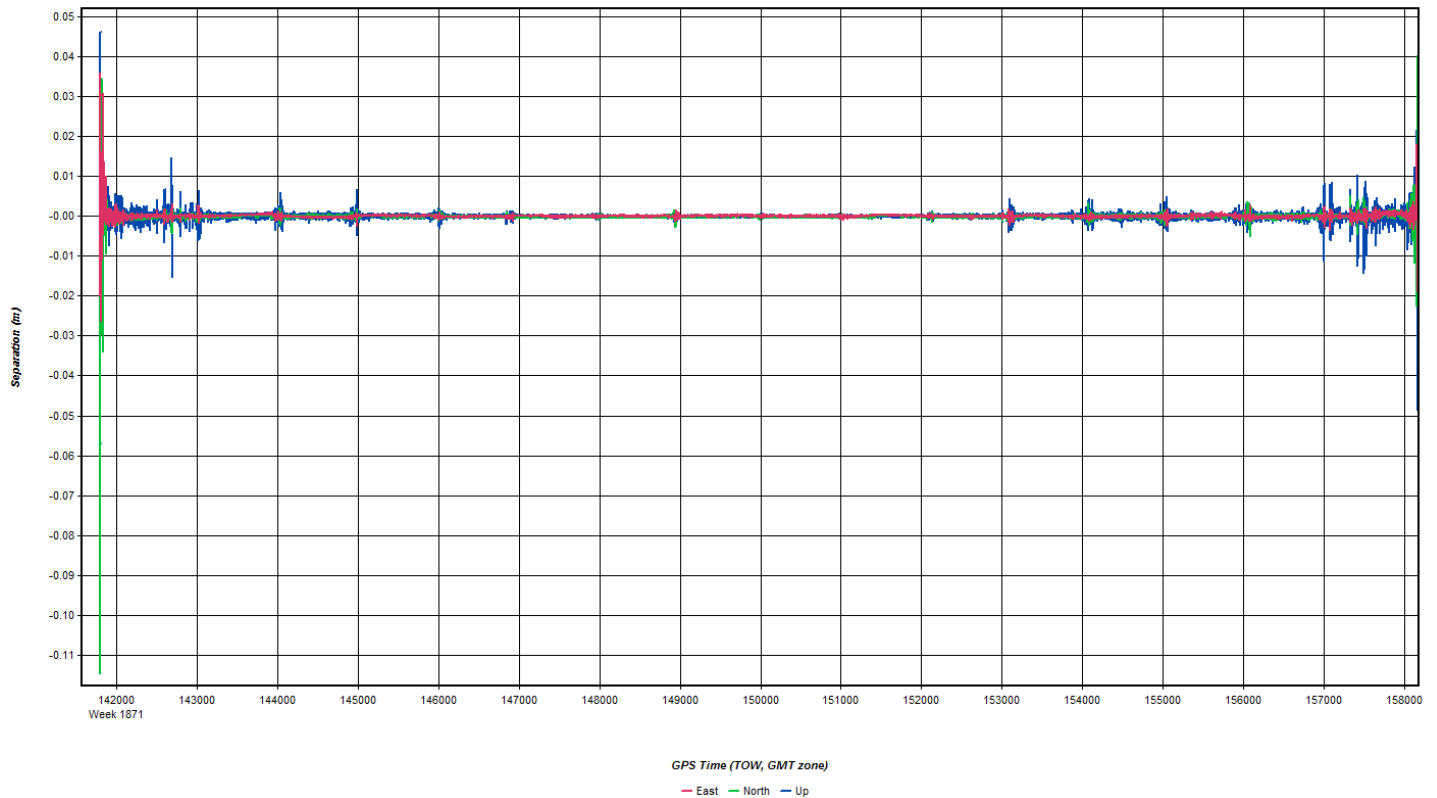
LIDAR Daily Log												
Field Crew		Project #		Project Description		GPS (m)		Lever Arm		X, Y, Z		
RCD S DRIVE 013		TBA		Quantum		-0.110 0.210 -1.220						
MISSION 1		Aircraft		SENSOR NAVIGATION FILE NAME								
ALS70		N789AC		20151116_181644								
Reflight	Line	Dir	Start	Stop	Total Time	FOV	Scan Rate	Pulse Rate Hz	Roll Comp	Mut Pulse (Y/N)	Altitude ellipsoid (ft)	Speed
	50	LDR151116	18:42:46	18:44:46	0:02:00	38.1	50.5	136400	YES	N	1983	6440
	48	LDR151116	18:47:12	18:47:26	0:00:14	38.1	50.5	136500	YES	N	1600	5248
	49	LDR151116	18:50:55	18:51:09	0:00:14	38.1	50.5	136500	YES	N	1981	5448
	46	LDR151116	18:54:50	18:56:20	0:01:30	38.1	50.5	136500	YES	N	1544	5068
	46	LDR151116	18:56:44	19:02:08	0:02:24	38.1	50.5	136400	YES	N	2006	6581
	45	LDR151116	19:05:02	19:15:35	0:10:33	38.1	50.5	136500	YES	N	1594	5230
	44	LDR151116	19:19:35	19:36:37	0:16:42	38.1	50.5	136400	YES	N	1981	6532
	41	LDR151116	19:38:16	19:42:36	0:03:20	38.1	50.5	136400	YES	N	1770	5807
	43	LDR151116	19:44:51	19:50:04	0:05:13	38.1	50.5	136400	YES	N	1687	5535
	40	LDR151116	19:55:49	20:02:54	0:09:05	38.1	50.5	136500	YES	N	1970	6366
	38	LDR151116	20:06:29	20:12:03	0:05:24	38.1	50.5	136500	YES	N	1620	5315
	35	LDR151116	20:15:38	20:19:32	0:03:34	38.1	50.5	136500	YES	N	1714	5623
	37	LDR151116	20:21:43	20:27:36	0:05:53	38.1	50.5	136400	YES	N	1607	5272
	34	LDR151116	20:32:33	20:51:25	0:18:52	38.1	50.5	136400	YES	N	1937	6395
	33	LDR151116	20:55:13	21:07:39	0:12:26	38.1	50.5	136400	YES	N	1718	5636
	30	LDR151116	21:11:30	21:31:18	0:19:48	38.2	50.5	136400	YES	N	1921	6302
	33	LDR151116	21:34:53	21:36:30	0:01:37	38.2	50.5	136400	YES	N	1310	4098
	31	LDR151116	21:46:53	21:59:17	0:13:06	38.2	50.5	136500	YES	N	1308	4056
	32	LDR151116	22:04:13	22:23:51	0:19:38	38.1	50.5	136500	YES	N	1872	6470
	UL001	LDR151116	22:27:03	22:30:54	0:03:34	38.1	50.5	136500	YES	N	1998	6352
	UL002	LDR151116	22:32:50	22:36:03	0:03:13	38.1	50.5	136500	YES	N	1989	6526

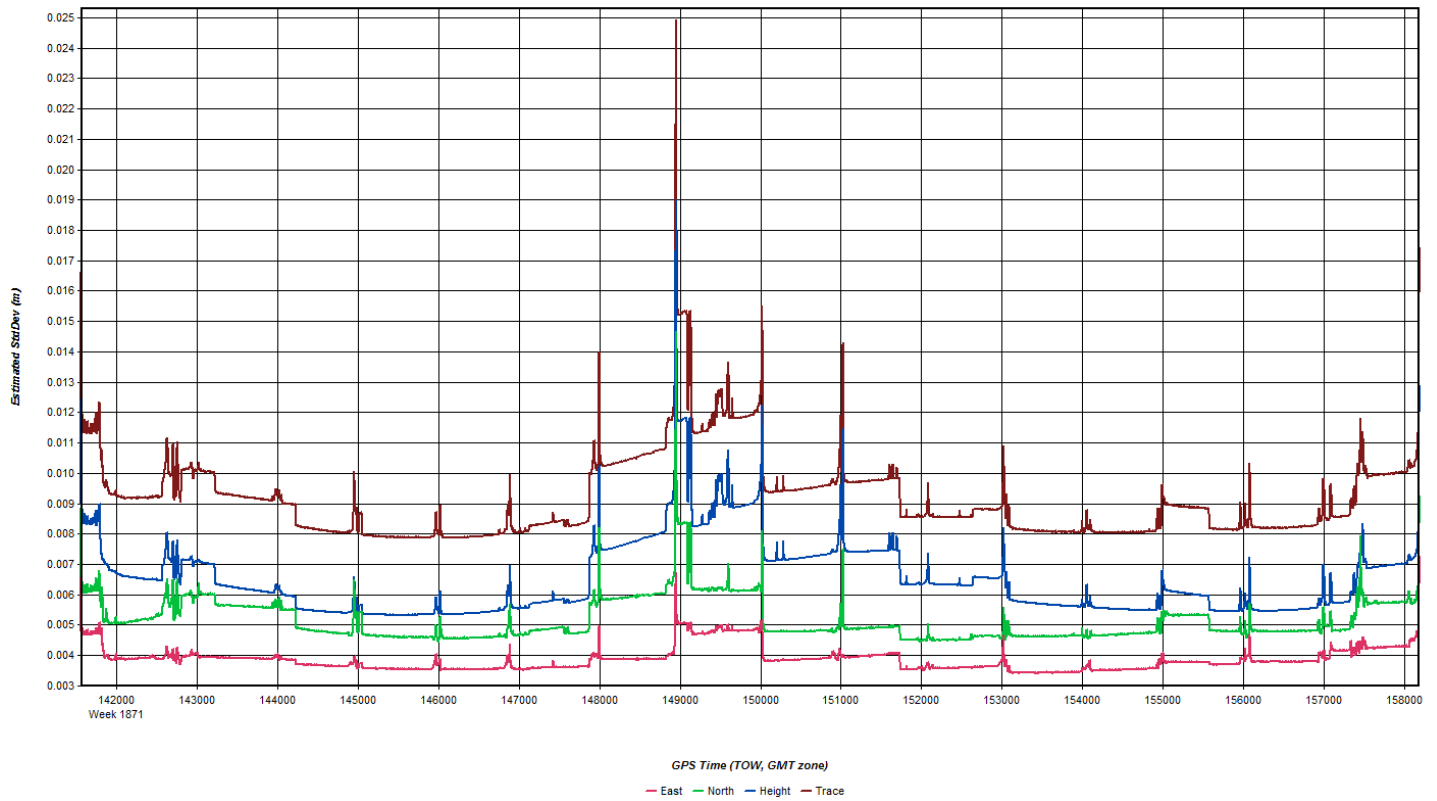
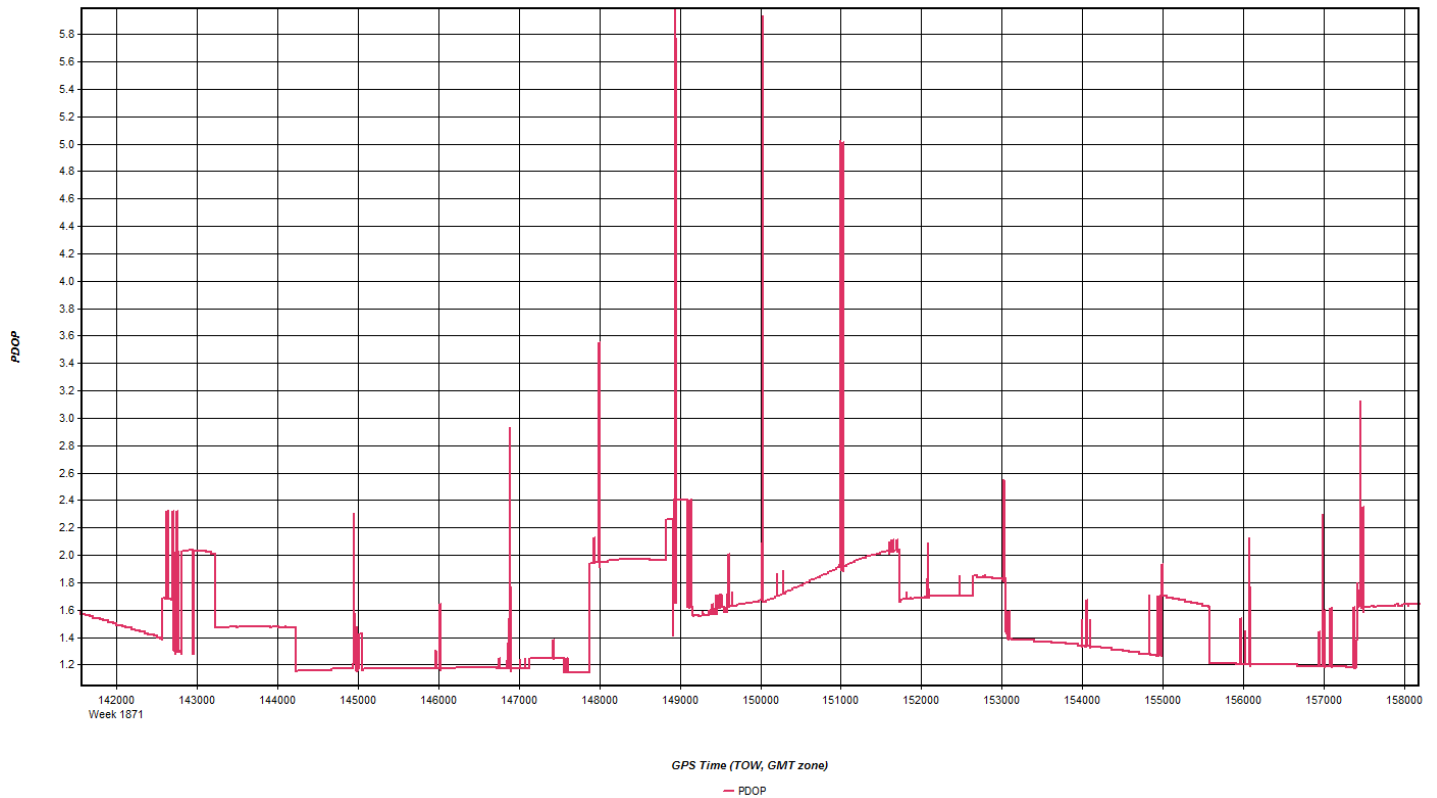
LIDAR FLIGHT SUMMARY			
Aircraft IMU Time	4:34:10	Hobbs Start	2:38:56
Sensor Collection Time	2:38:20	Hobbs Stop	2:38:56
Line Miles Flown	0.0	Mission Hobbs	4.6
Average Flight Lines Speed	0 KTS	Reflight Hobbs	0:00
		#DIV/0!	#DIV/0!

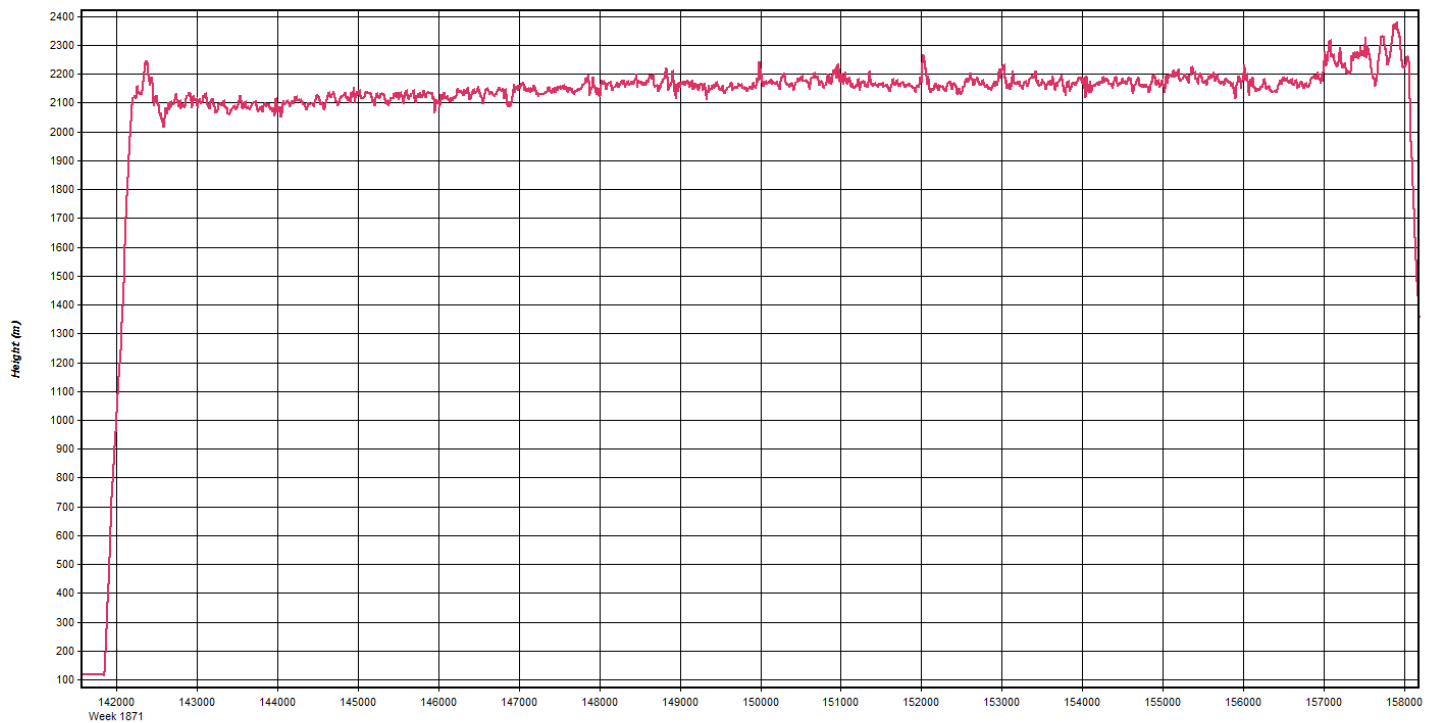
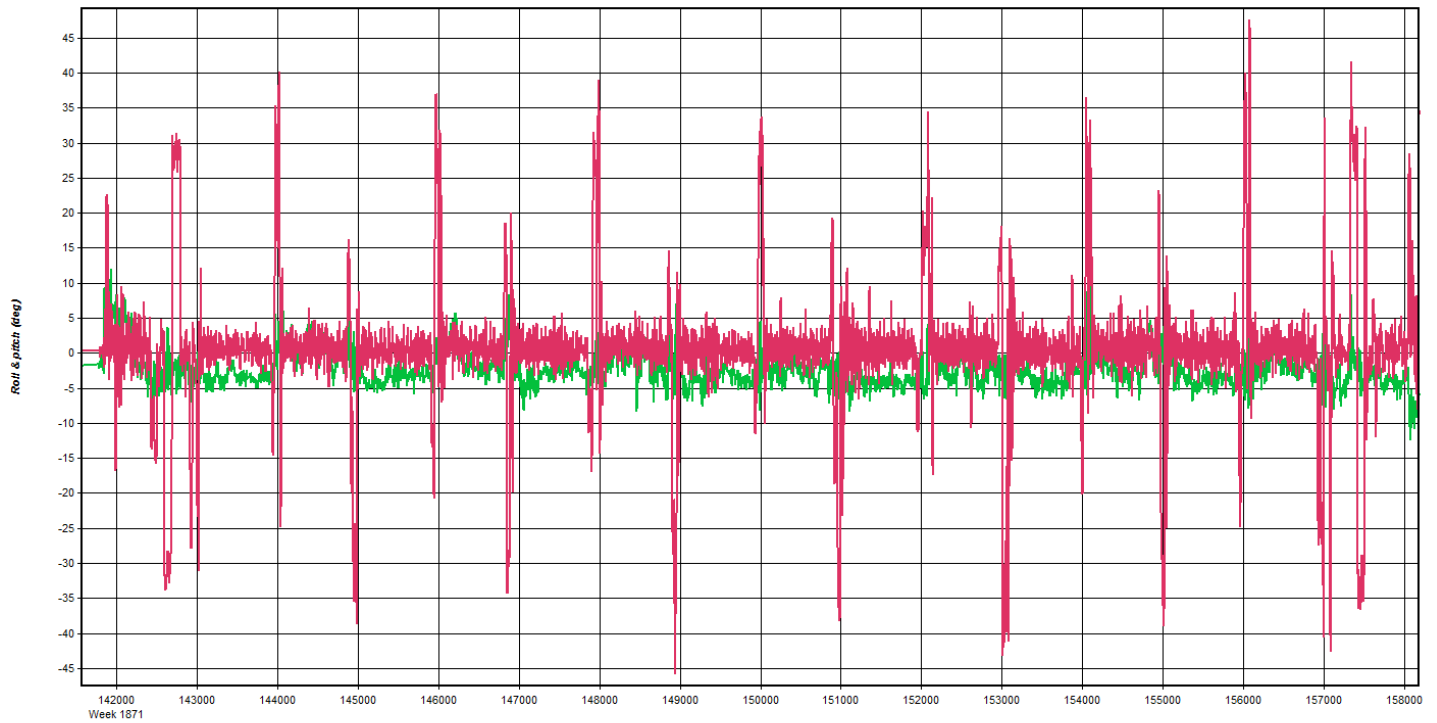
DATA COLLECTION			
Total Lines	0	Project % Complete	#DIV/0!
# Reflight Lines	0	Total Flight Lines	0
Reflight Percent	#DIV/0!	Line Complete	0
Sensor Re-Flight Miles	0.0	Mission Lines	0

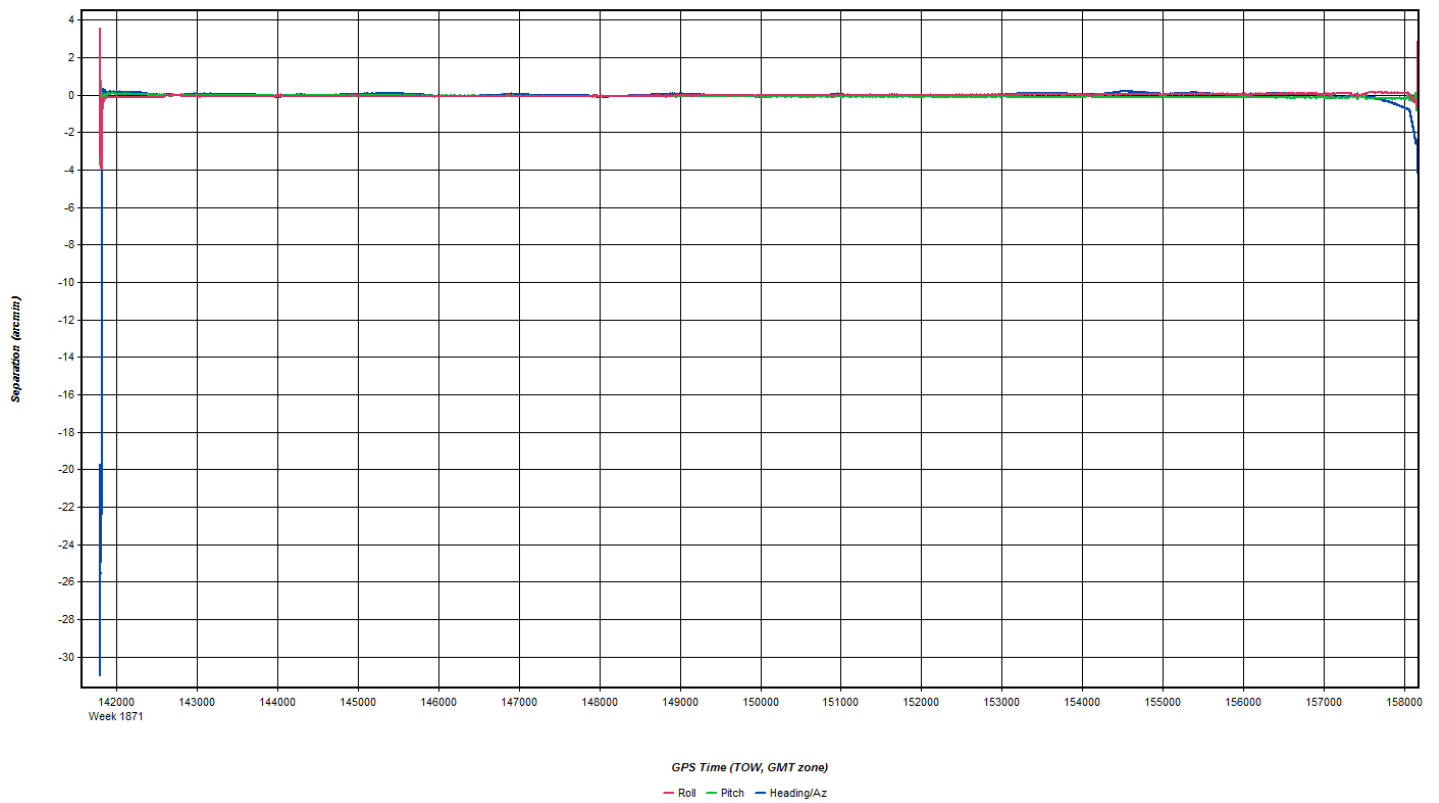
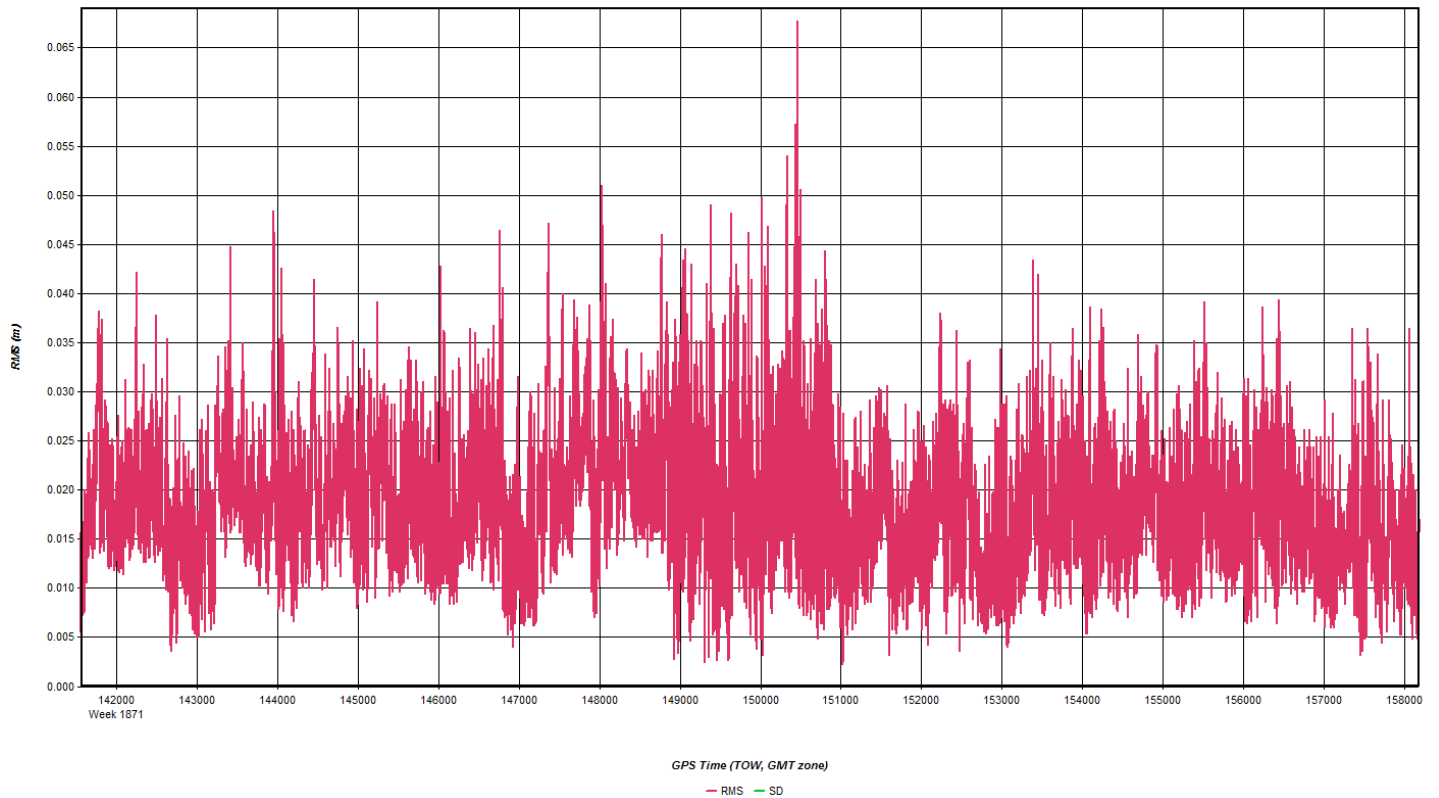
Nov 16, 2015-A (N1107Q, SN7108)

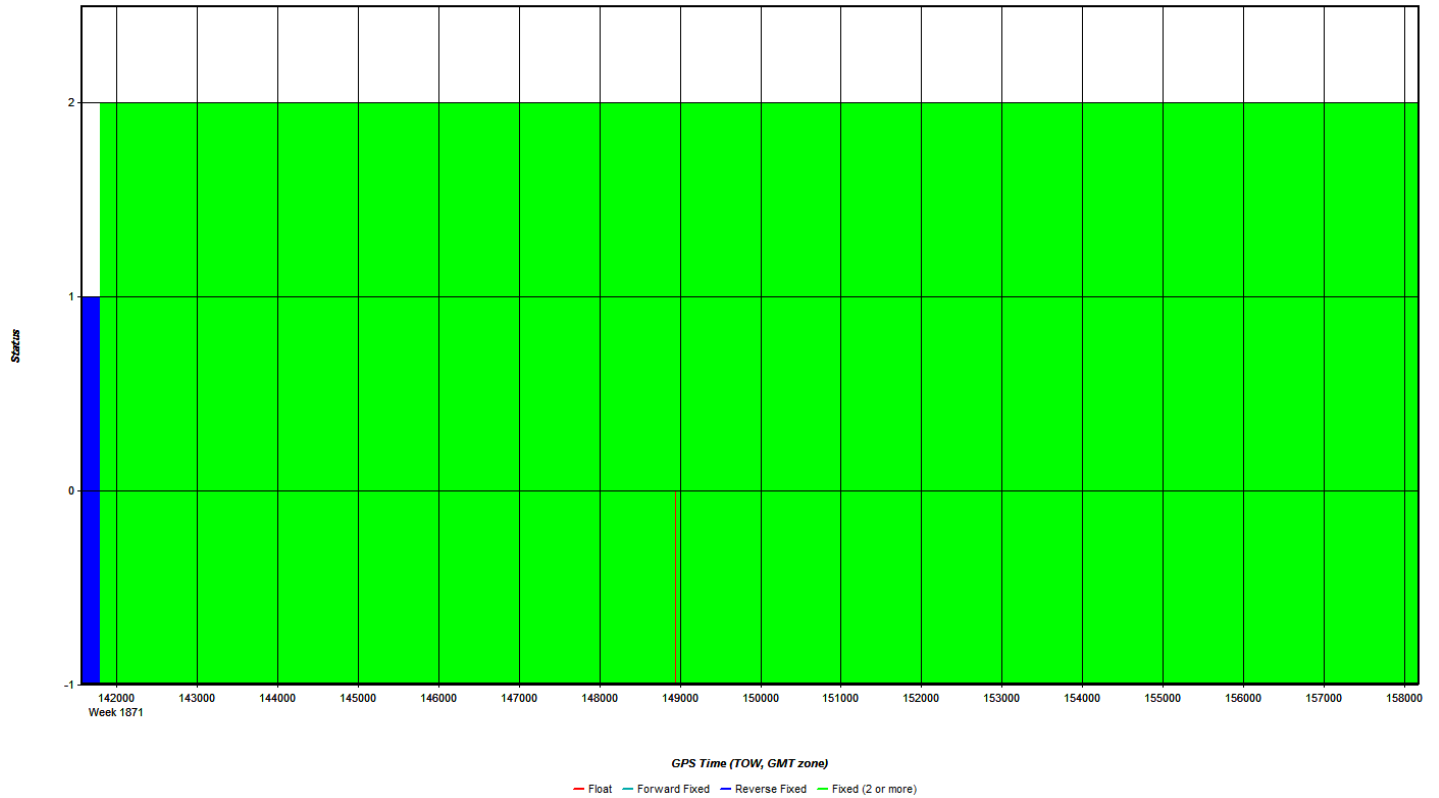












Coordinate/Antenna Settings

Master Remote

Base Station
 1: VTD2_CORS Name: VTD2_CORS Disabled
 File: F:\Proc\26818_CT_River\F9R8\ConnecticutRiver_Keene_NH\R:

Coordinates
 Latitude: North 42 55 06.10798 Compute from PPP
 Longitude: West 72 32 06.44140 Enter Grid Values
 Ellipsoidal height: 98.040 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

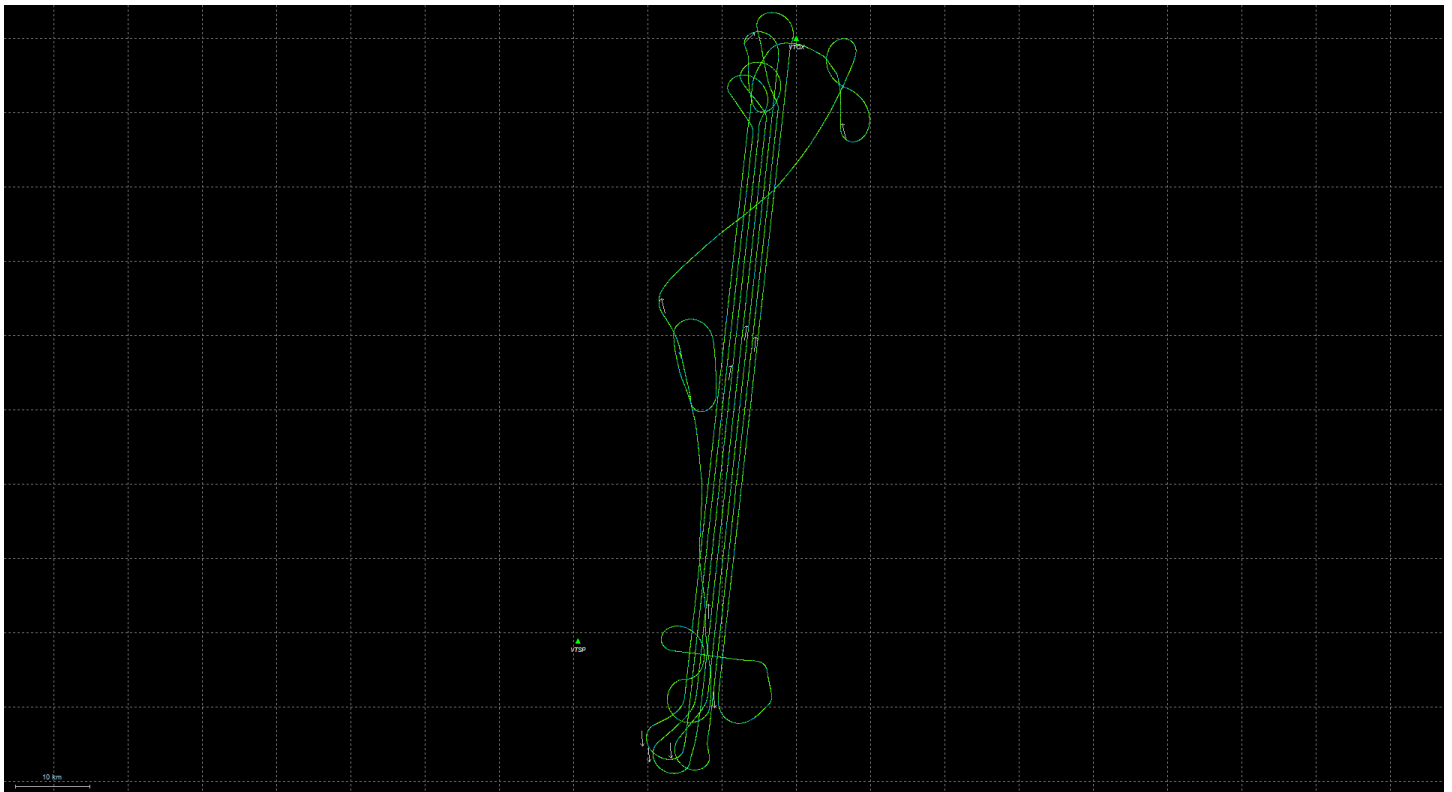
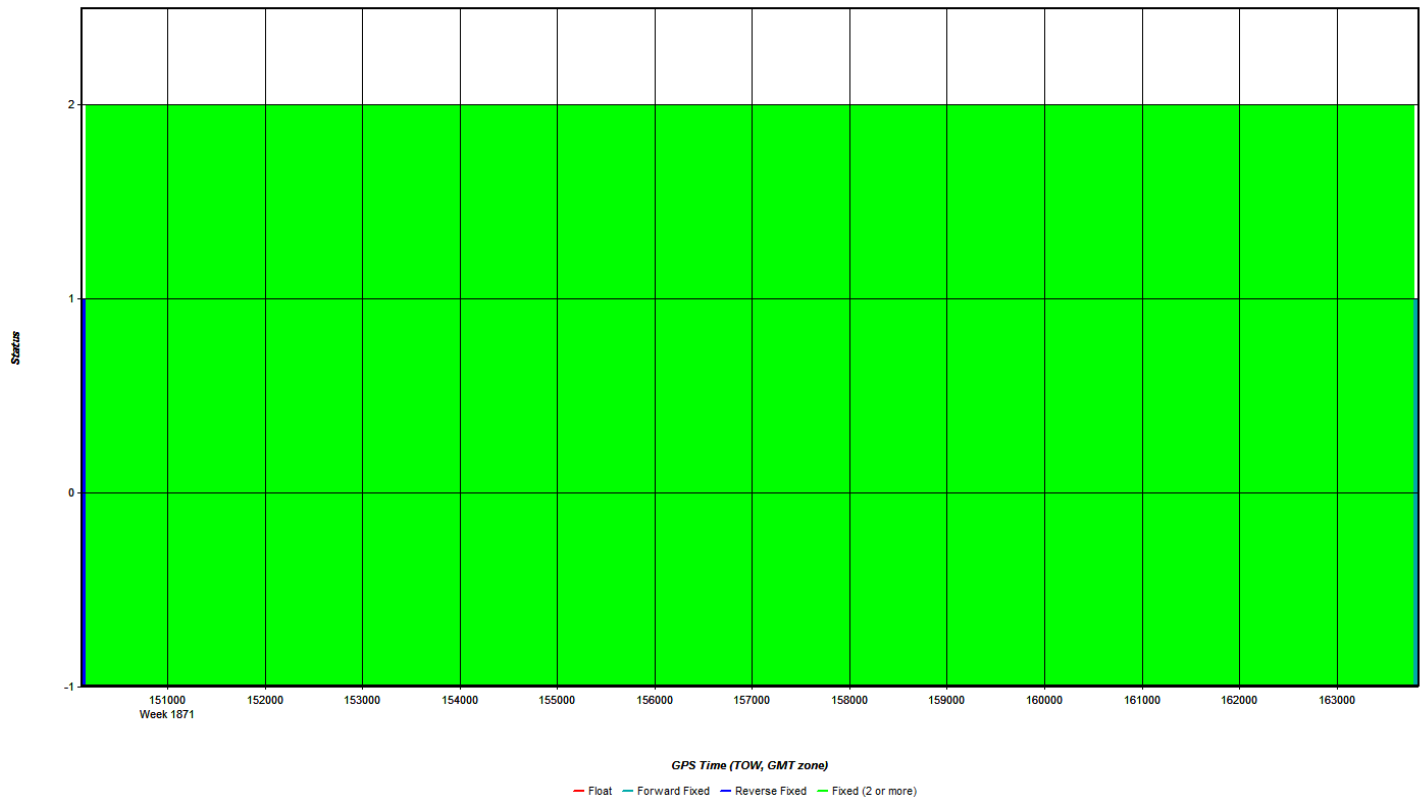
Antenna Height
 From station file: TRM55971.00, NONE View STA File
 Antenna profile: TRM55971.00 Info

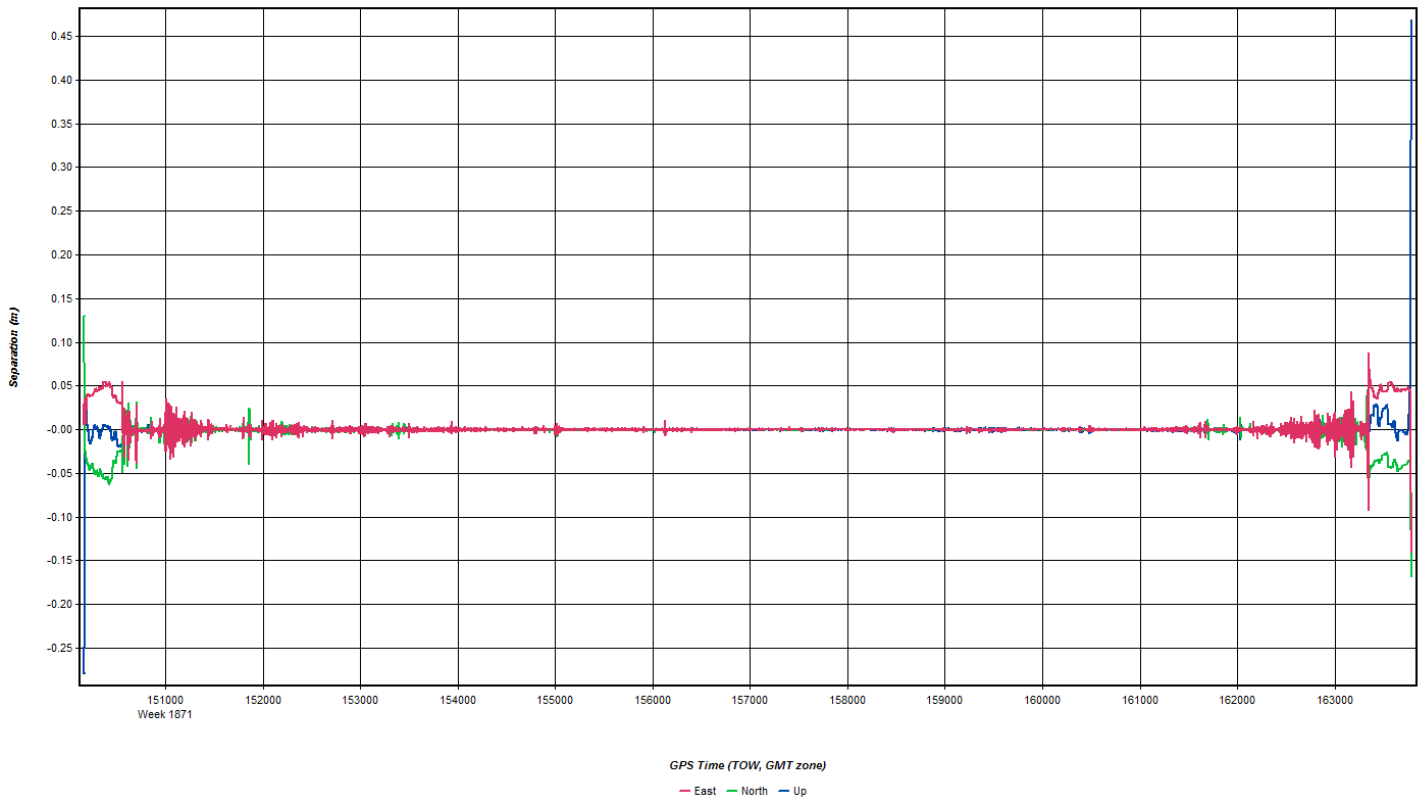
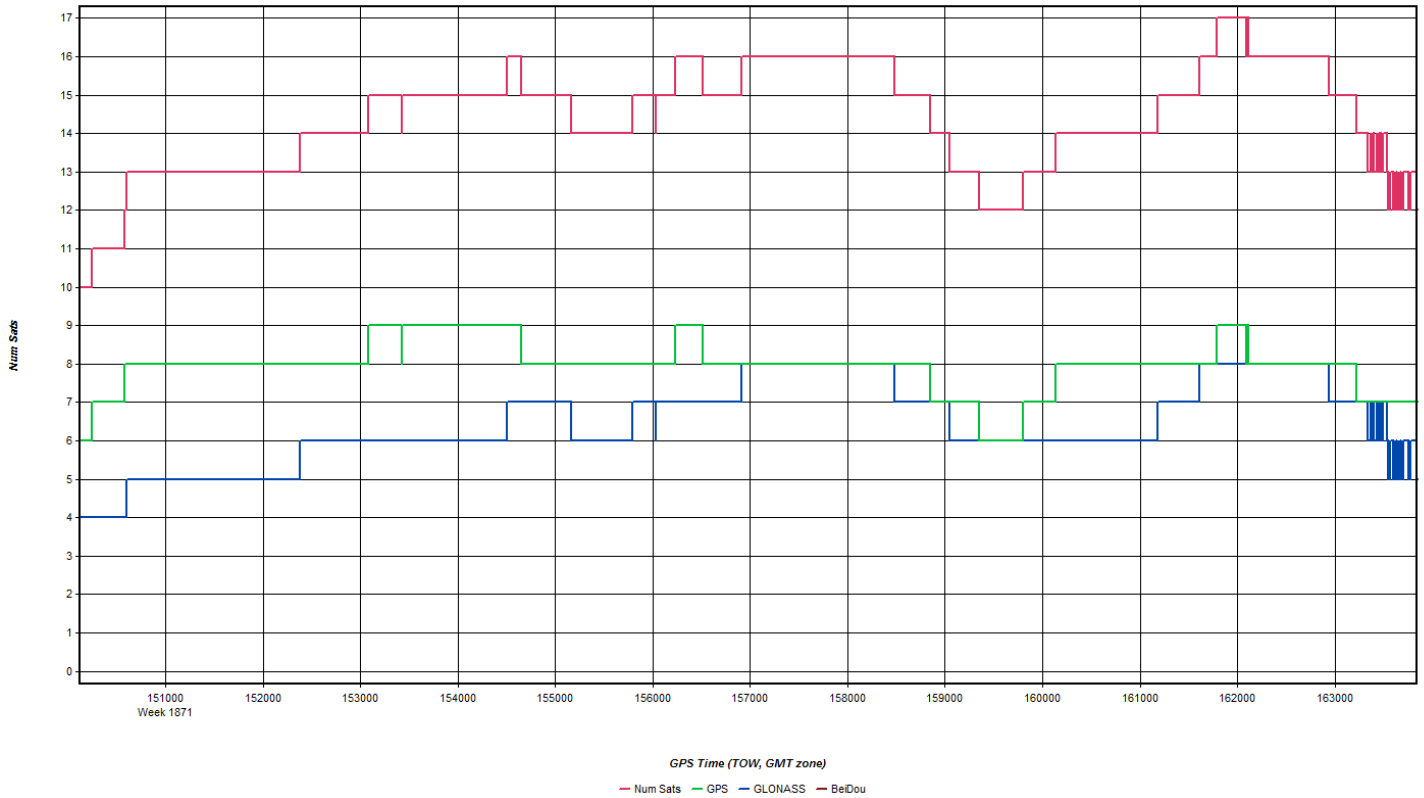
Measured height: 0.000 m
 ARP to L1 offset: 0.067 m
 Applied height: 0.000 m

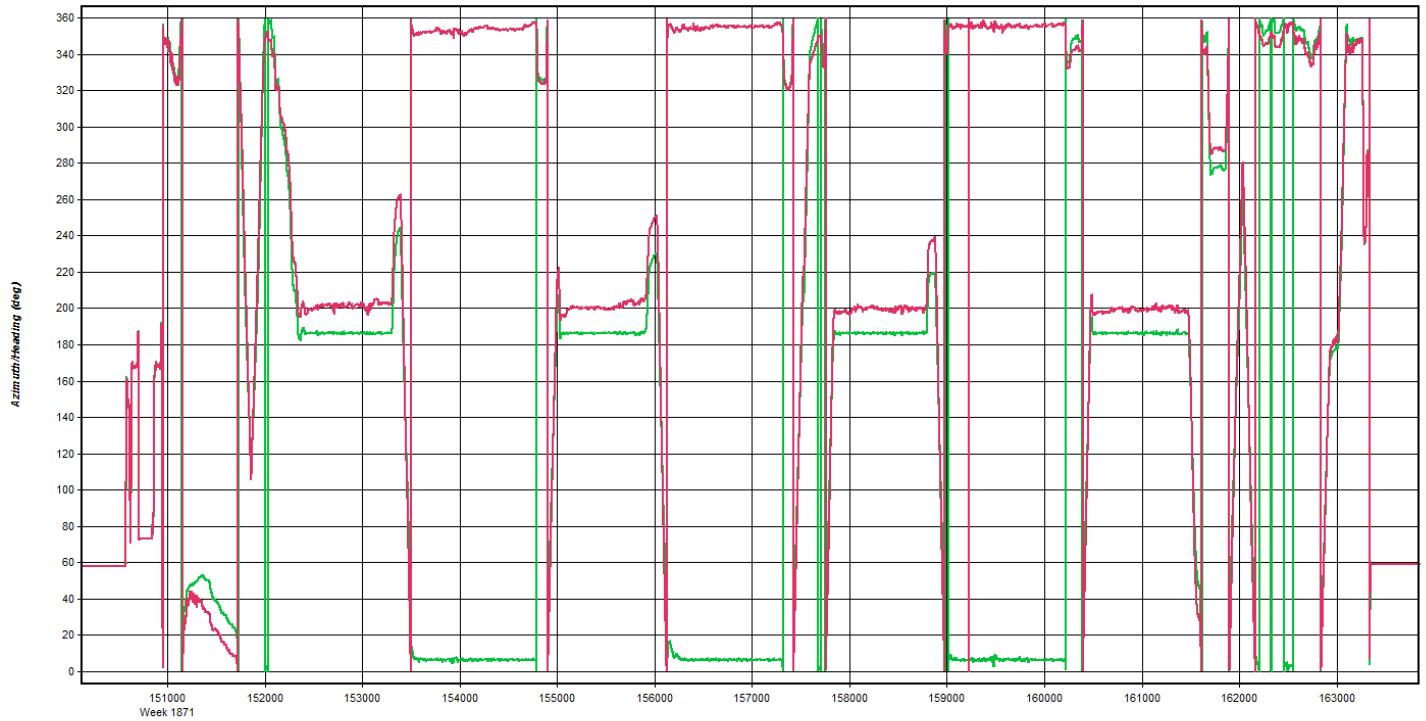
Measured to
 ARP
 L1 Phase Centre
 Compute From Slant

OK Cancel

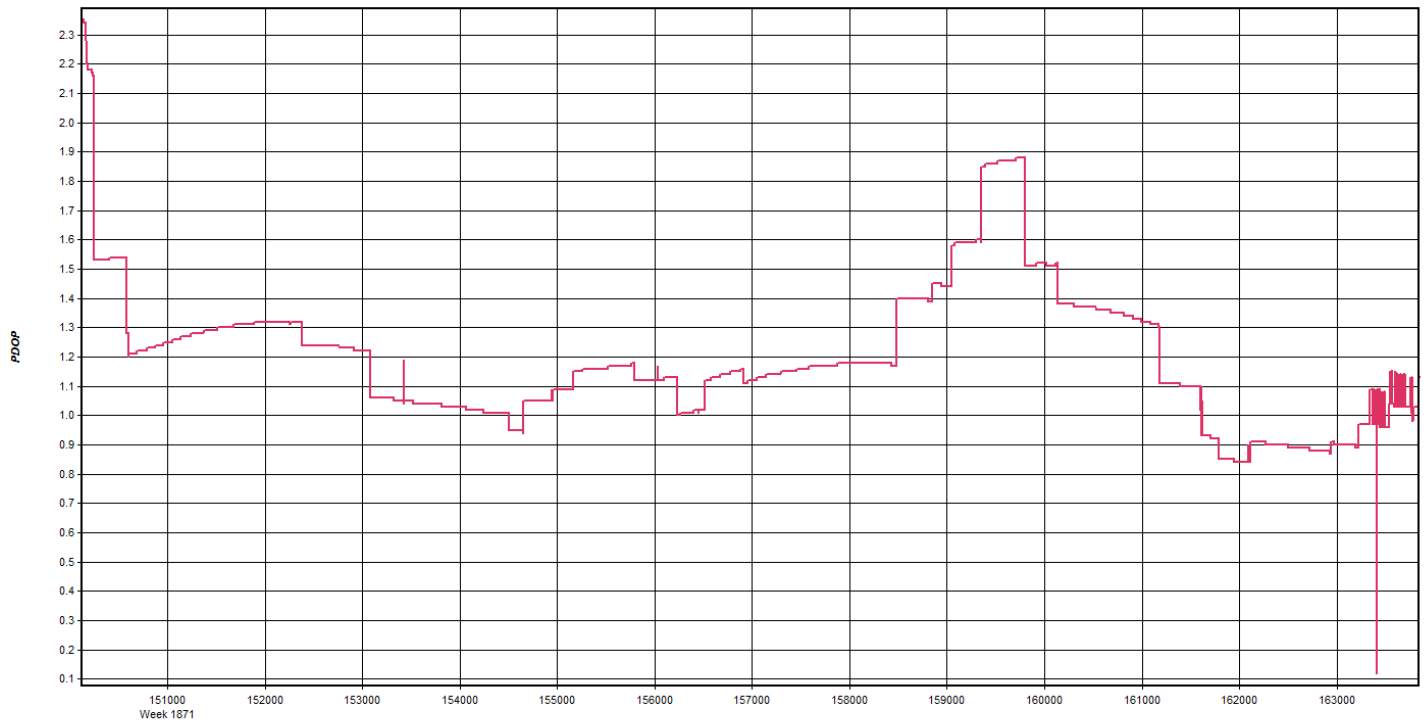
Nov 16, 2015-B (N22GE, SN7178)



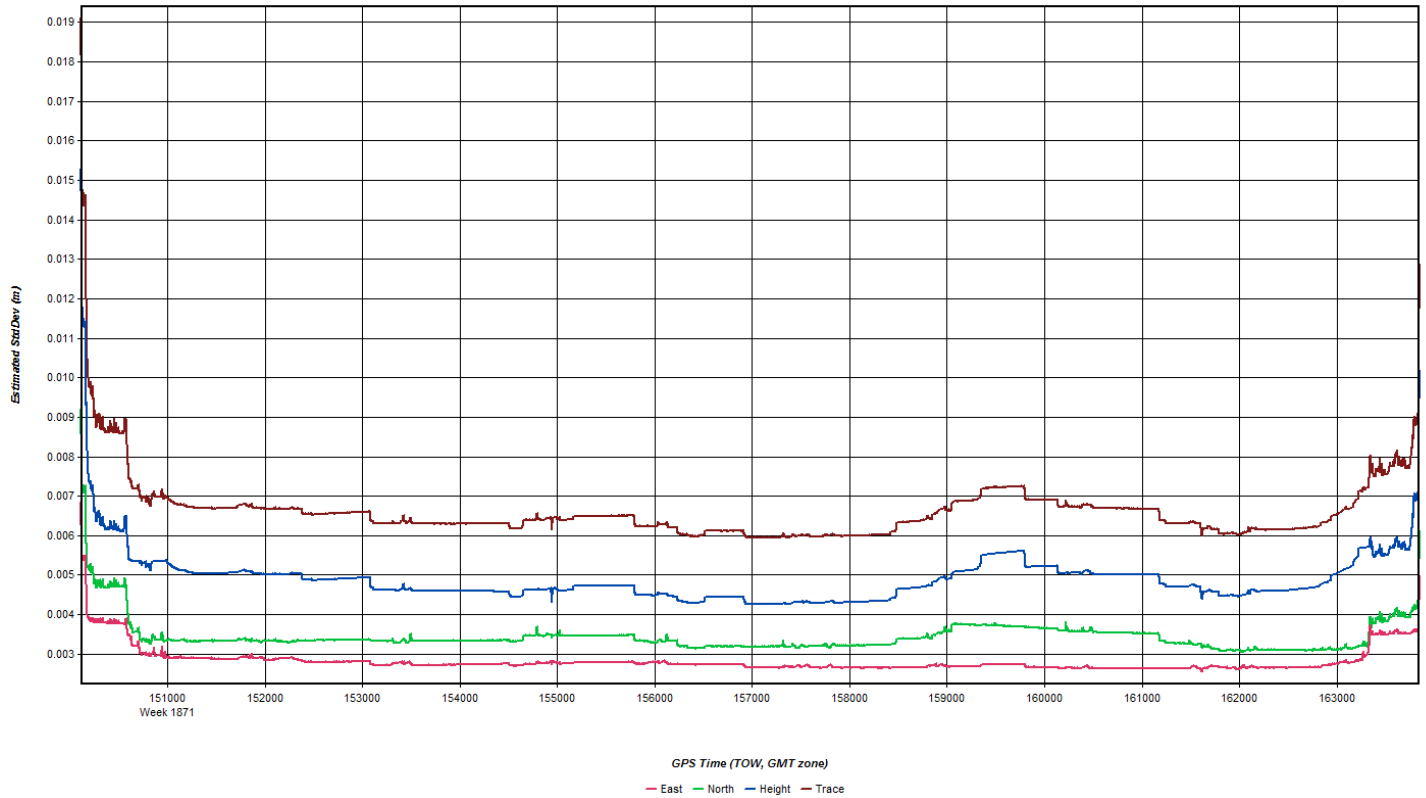


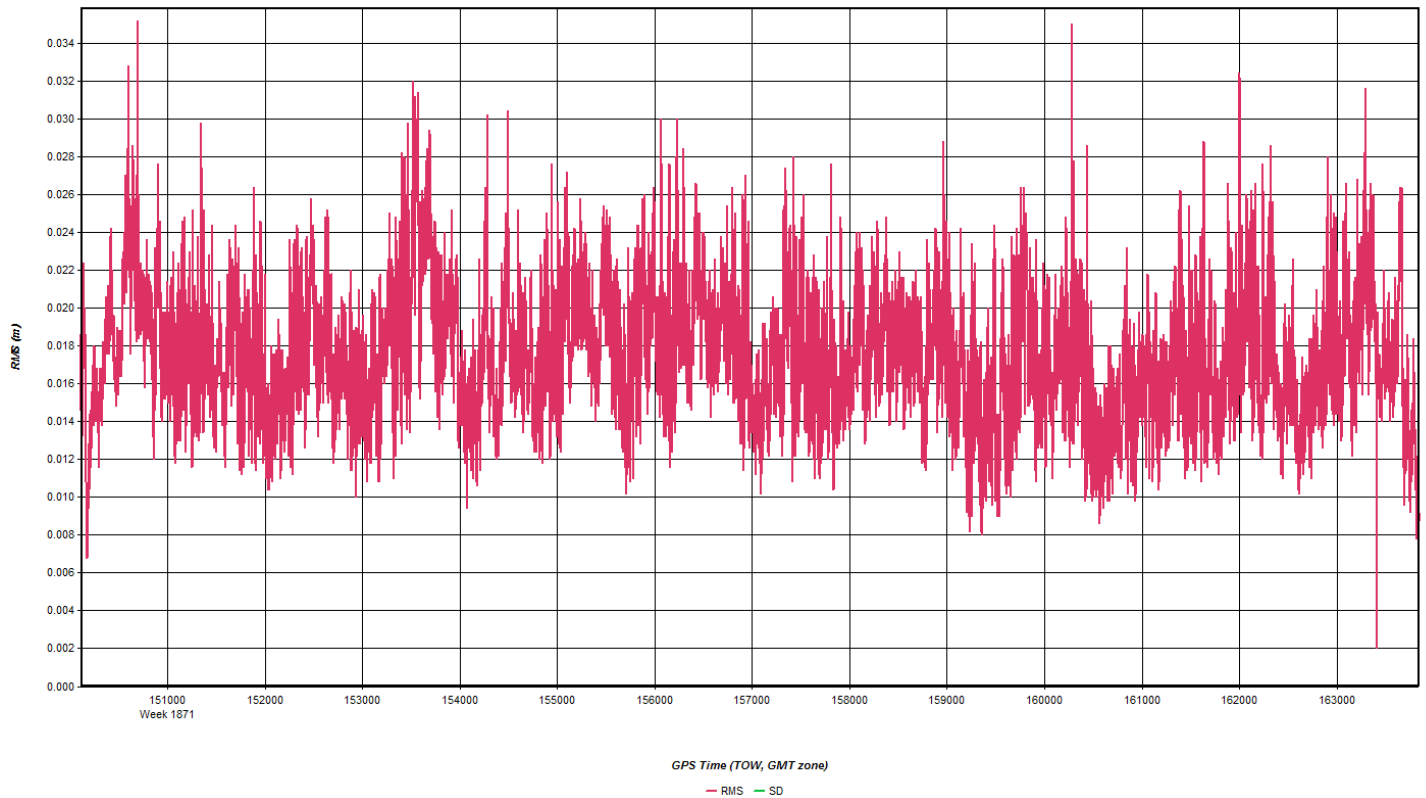


GPS Time (TOW, GMT zone)
— Heading/Azimuth — GPS-COG



GPS Time (TOW, GMT zone)
— PDOP







Coordinate/Antenna Settings

Master Remote

Base Station
 1: VTOX Name: VTOX Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\RAW_Data\CK2N\

Coordinates
 Latitude: North 44 00 28.16564 Compute from PPP
 Longitude: West 72 06 51.60957 Enter Grid Values
 Ellipsoidal height: 126.405 m Enter MSL Height
 Datum: NAD83(2011) 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

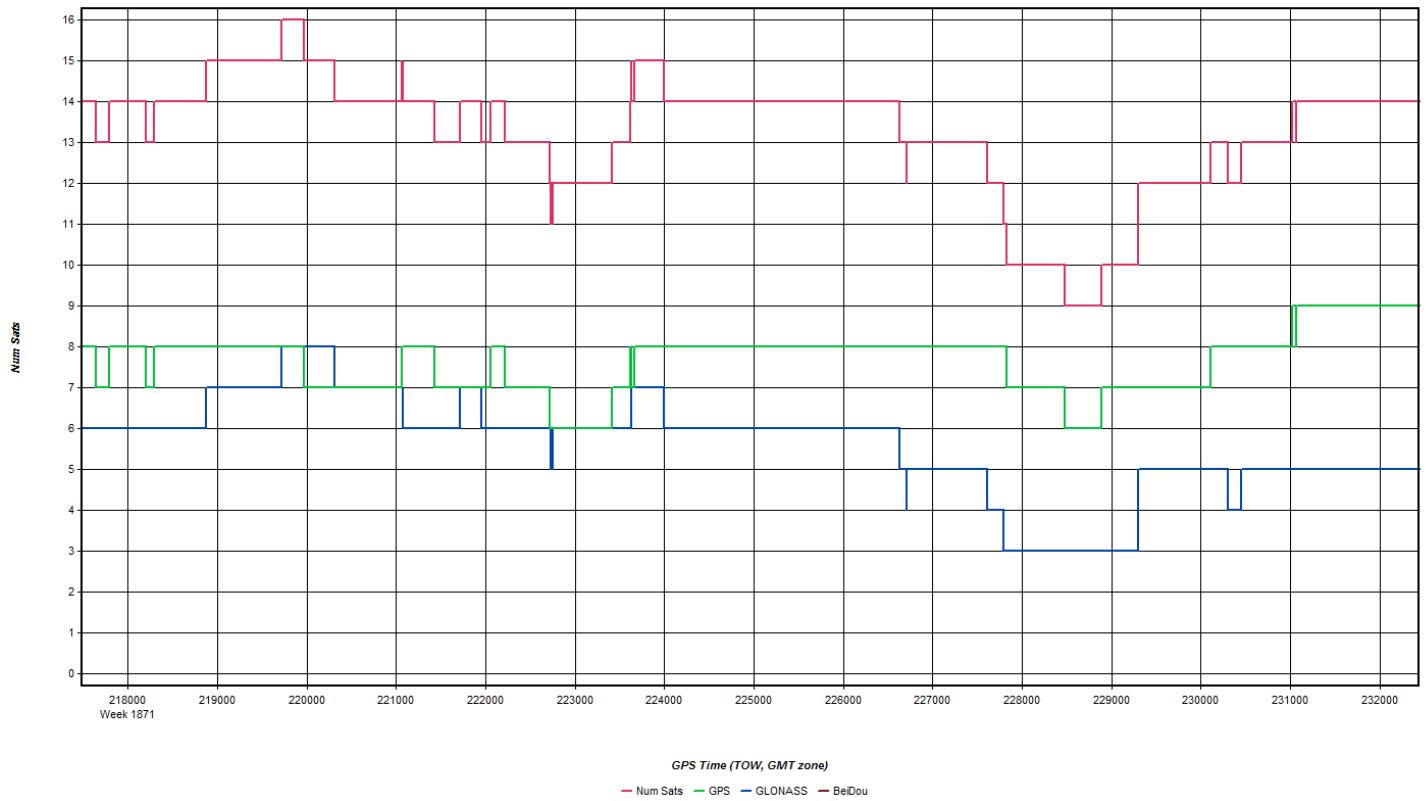
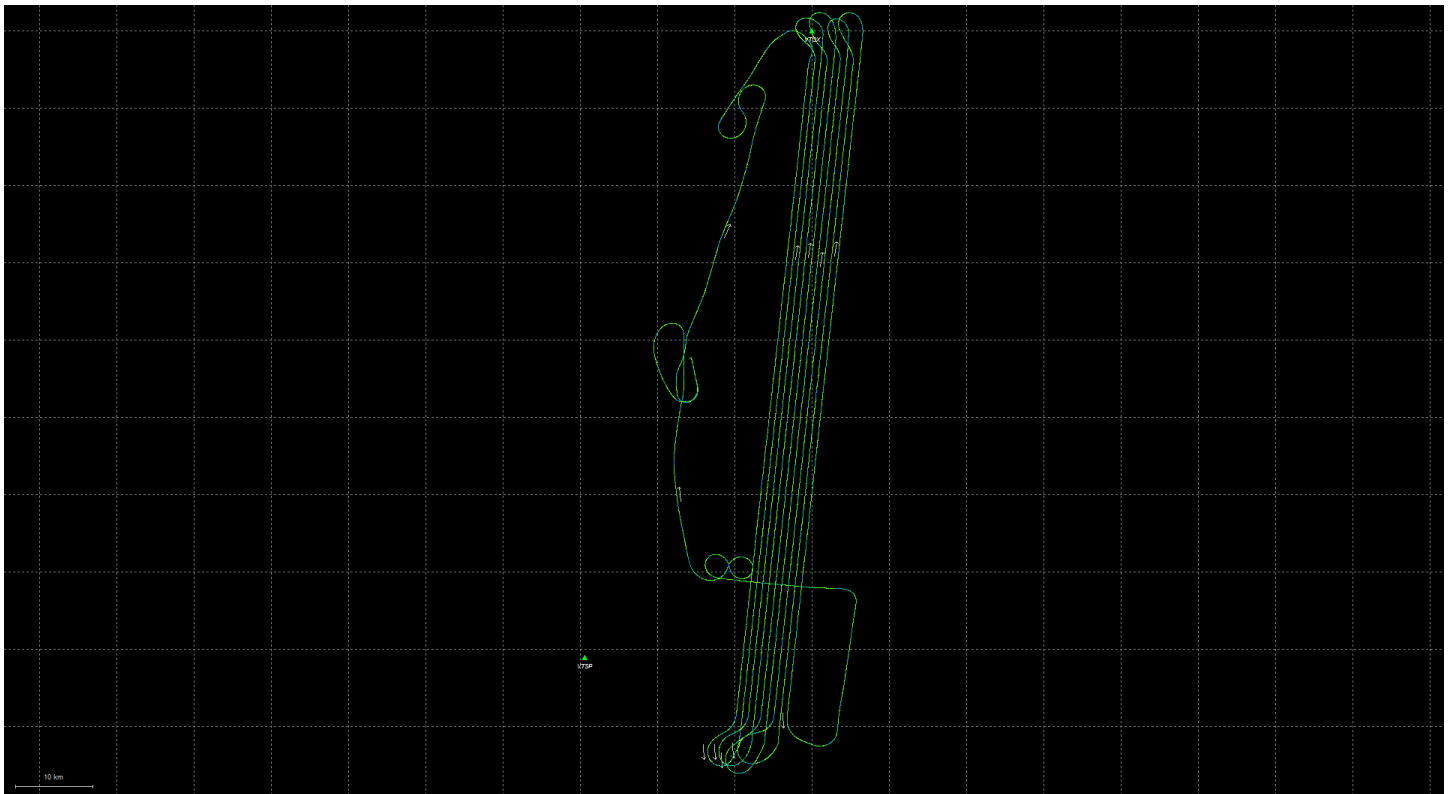
Base Station
 2: VTSP Name: VTSP Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\RAW_Data\CK2N\

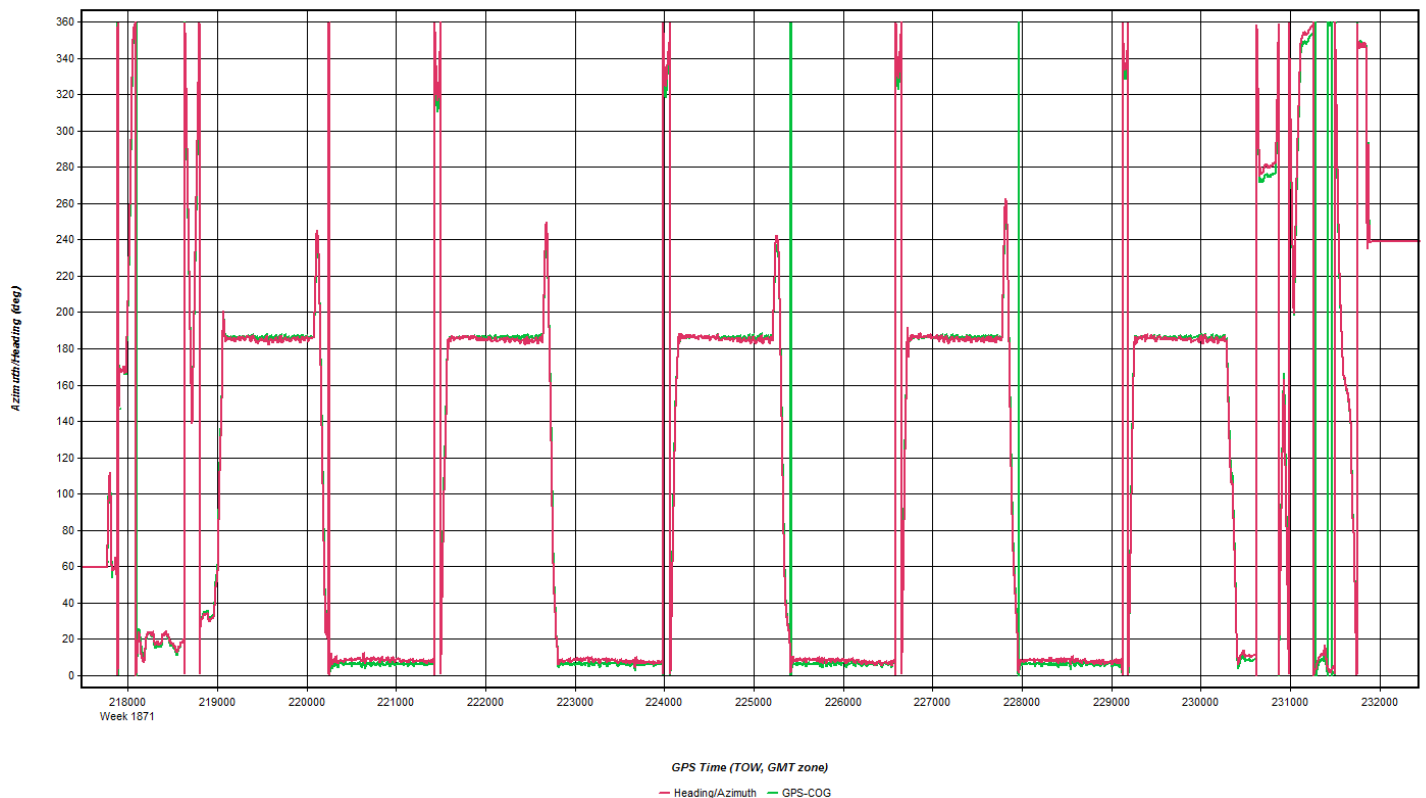
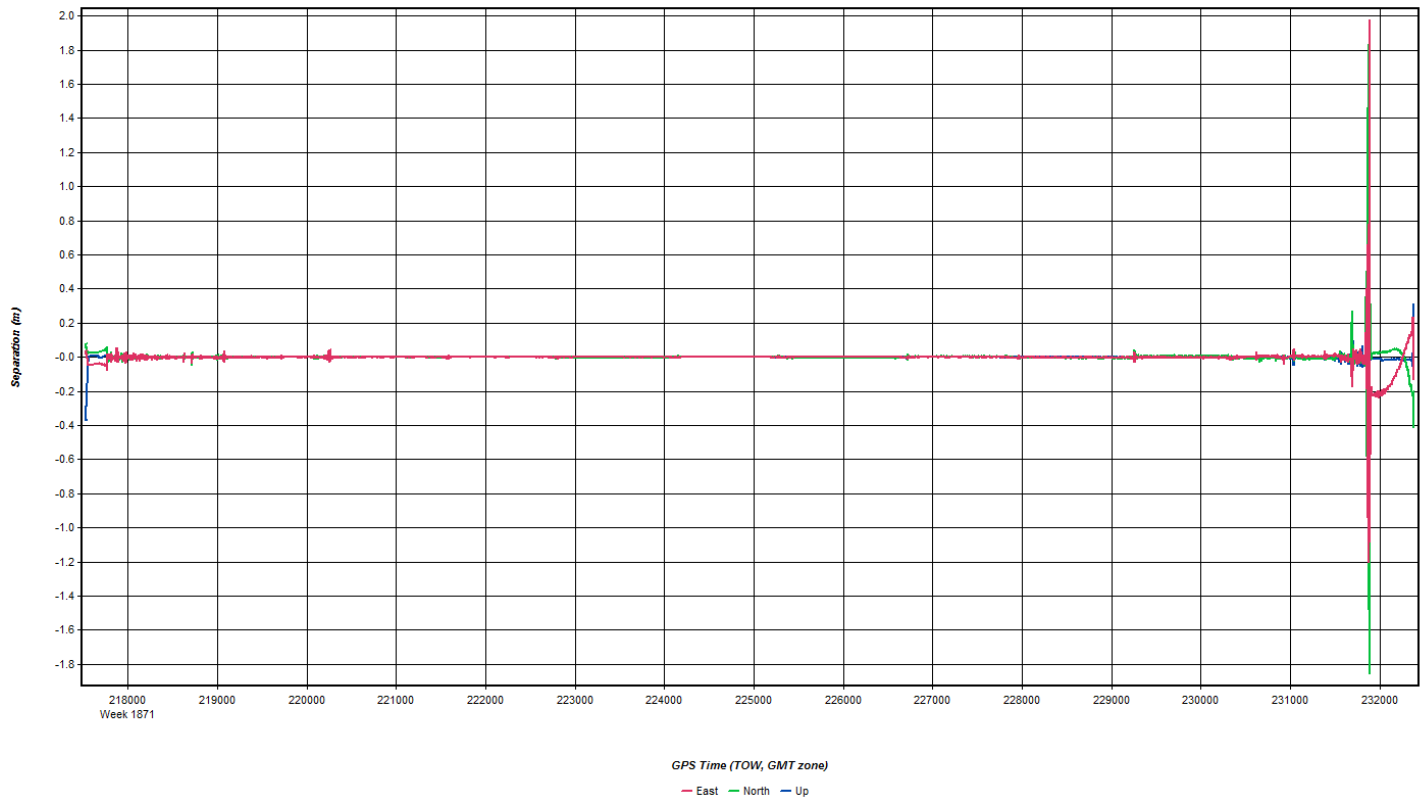
Coordinates
 Latitude: North 43 16 53.24114 Compute from PPP
 Longitude: West 72 28 39.23841 Enter Grid Values
 Ellipsoidal height: 156.441 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

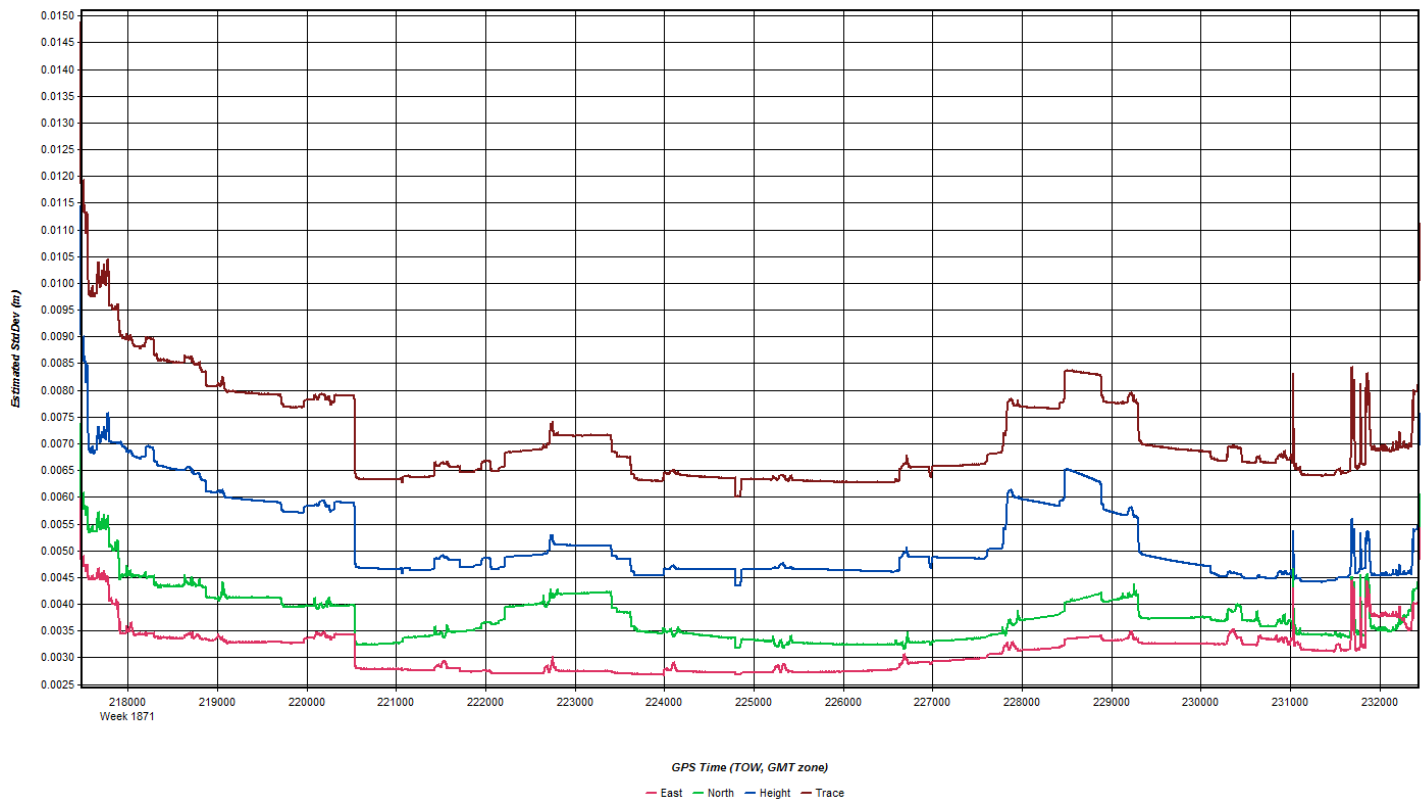
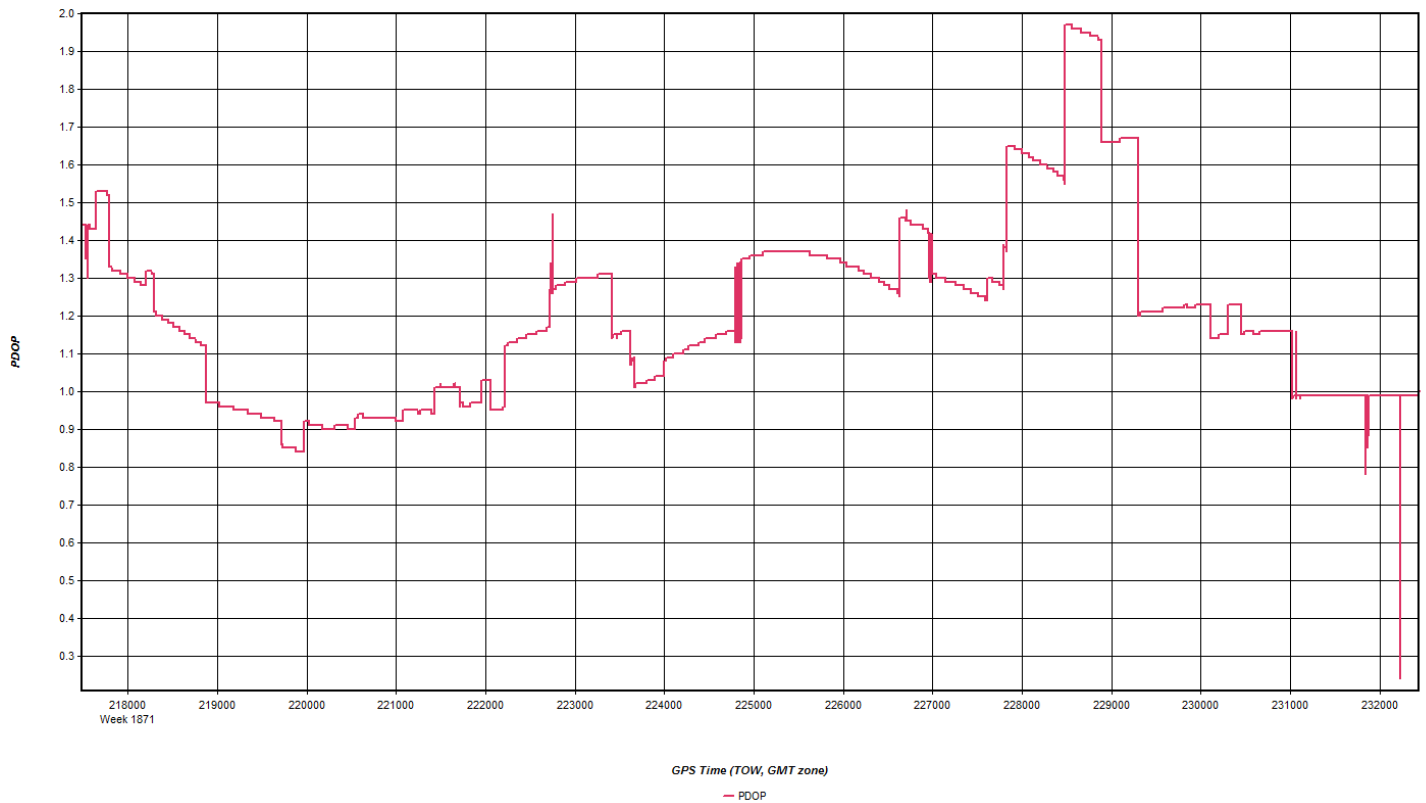
Antenna Height
 From station file: TRM55971.00, NONE View STA File
 Antenna profile: TRM55971.00 Info
 Measured height: 0.000 m
 ARP to L1 offset: 0.067 m
 Applied height: 0.067 m
 Measured to:
 ARP
 L1 Phase Centre
 Compute From Slant

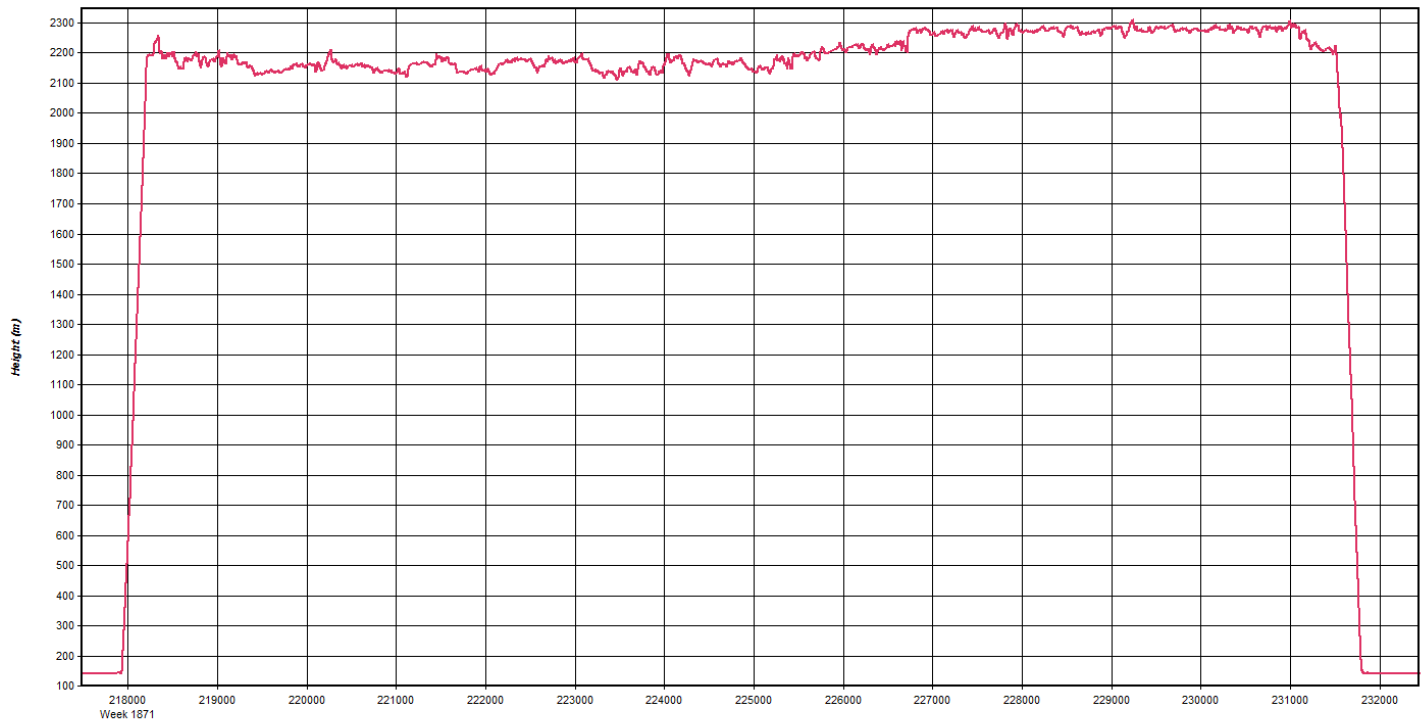
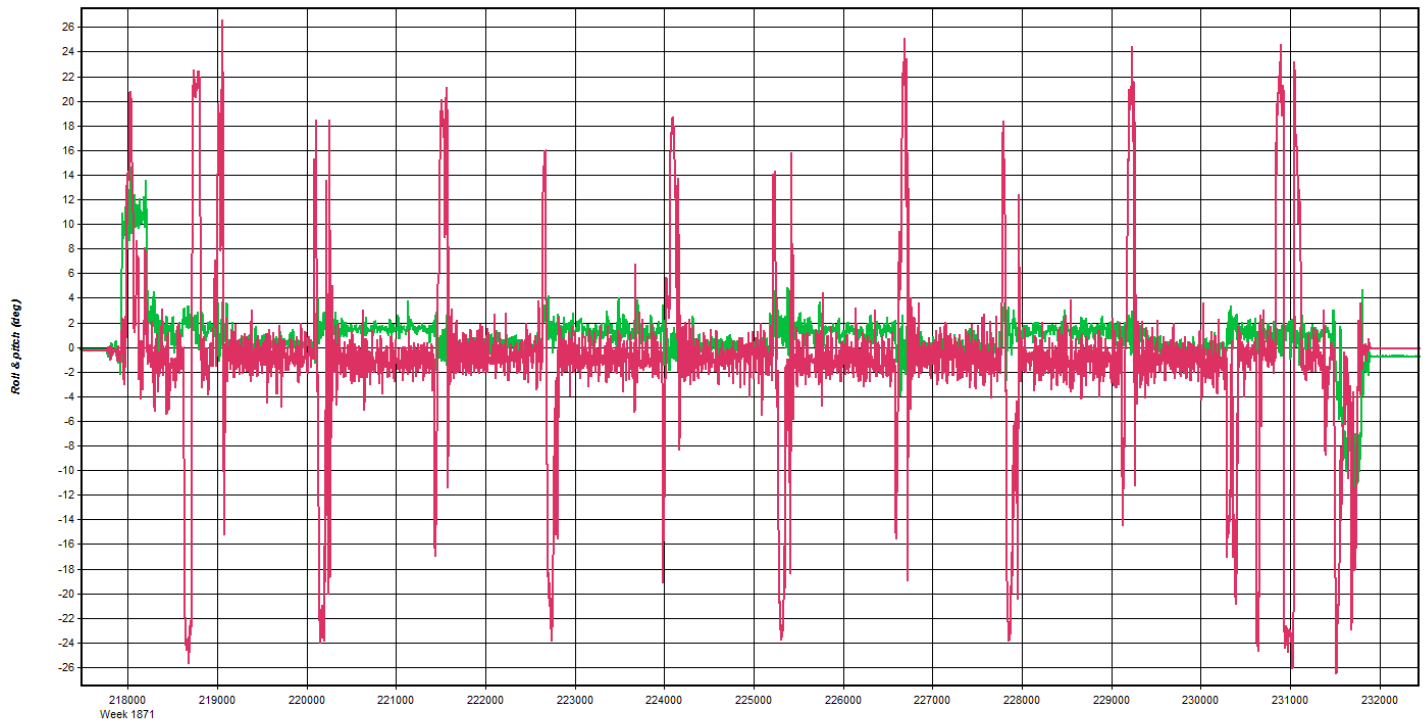
OK Cancel

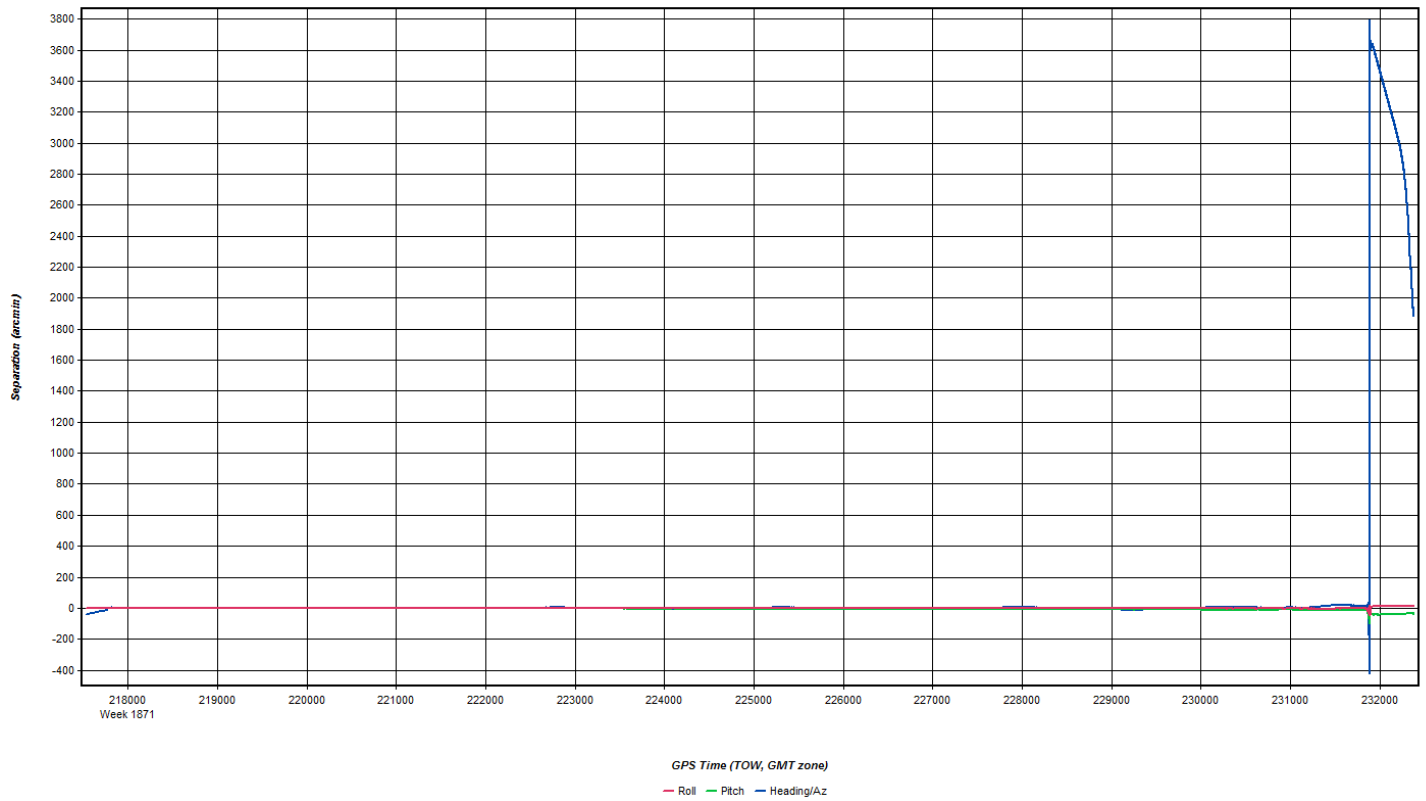
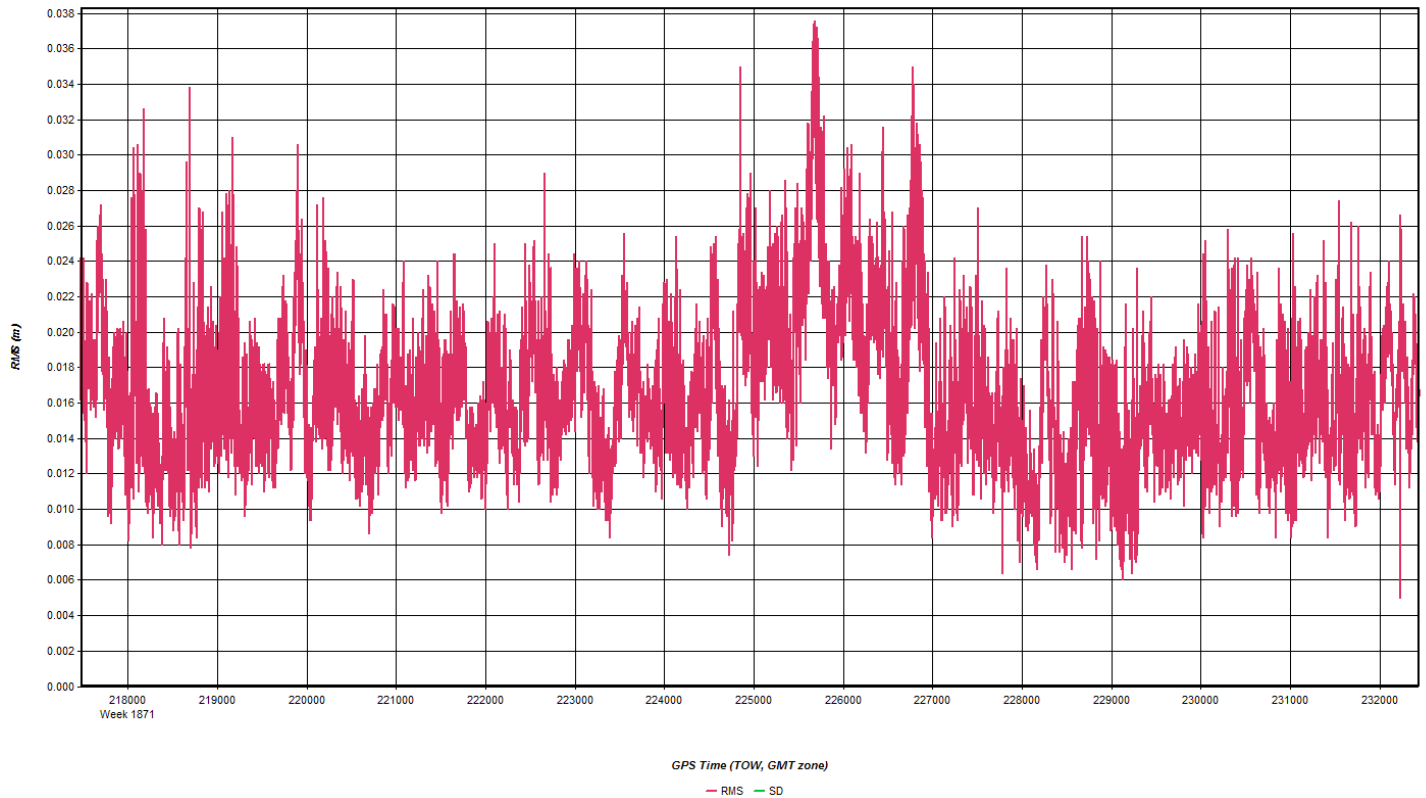
Nov 17, 2015-A (N22GE, SN7178)

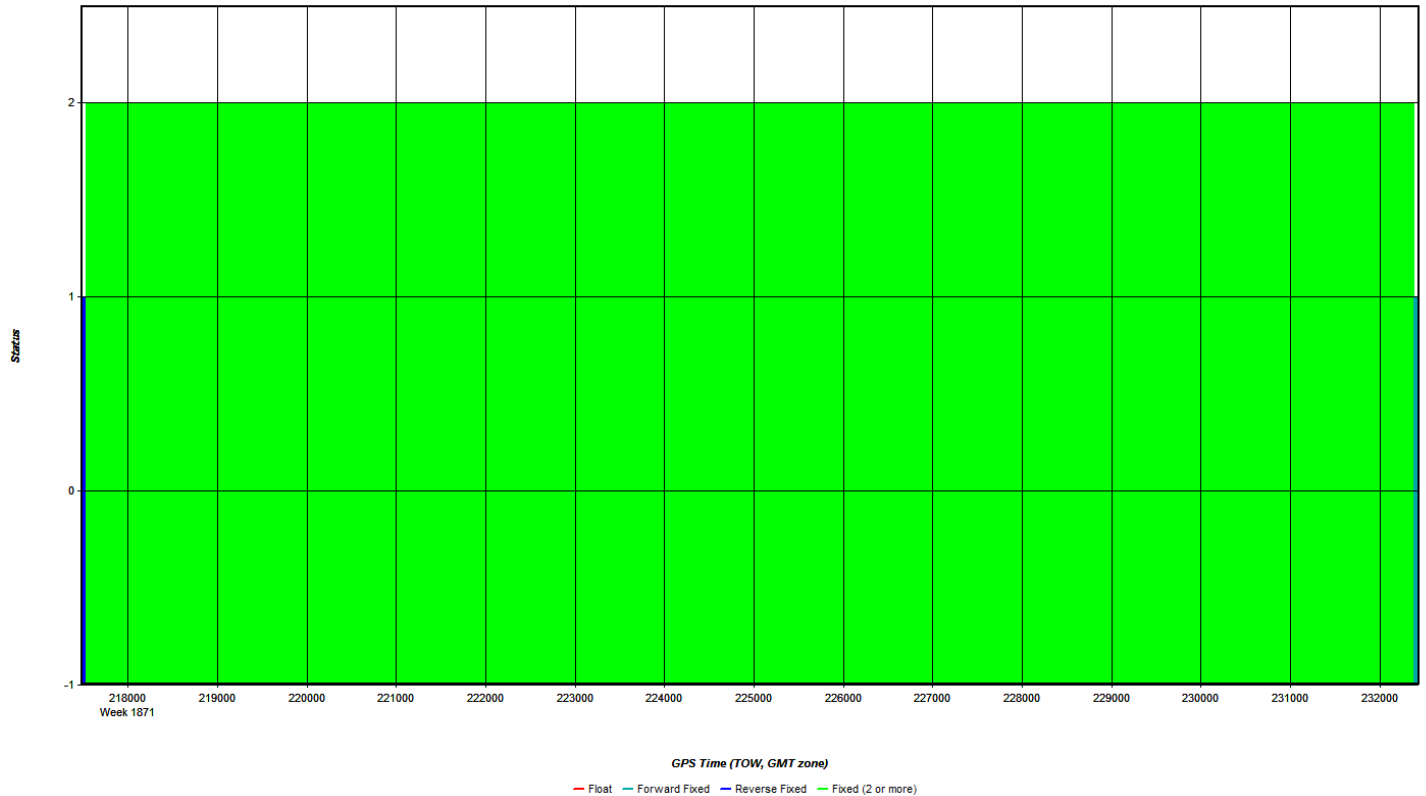












Coordinate/Antenna Settings [?] [X]

Master Remote

Base Station
 1: VTOX Name: VTOX Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\RAW_Data\CK2N\

Coordinates
 Latitude: North 44 00 28.16564 Compute from PPP
 Longitude: West 72 06 51.60957 Enter Grid Values
 Ellipsoidal height: 126.405 m Enter MSL Height
 Datum: NAD83(2011) 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

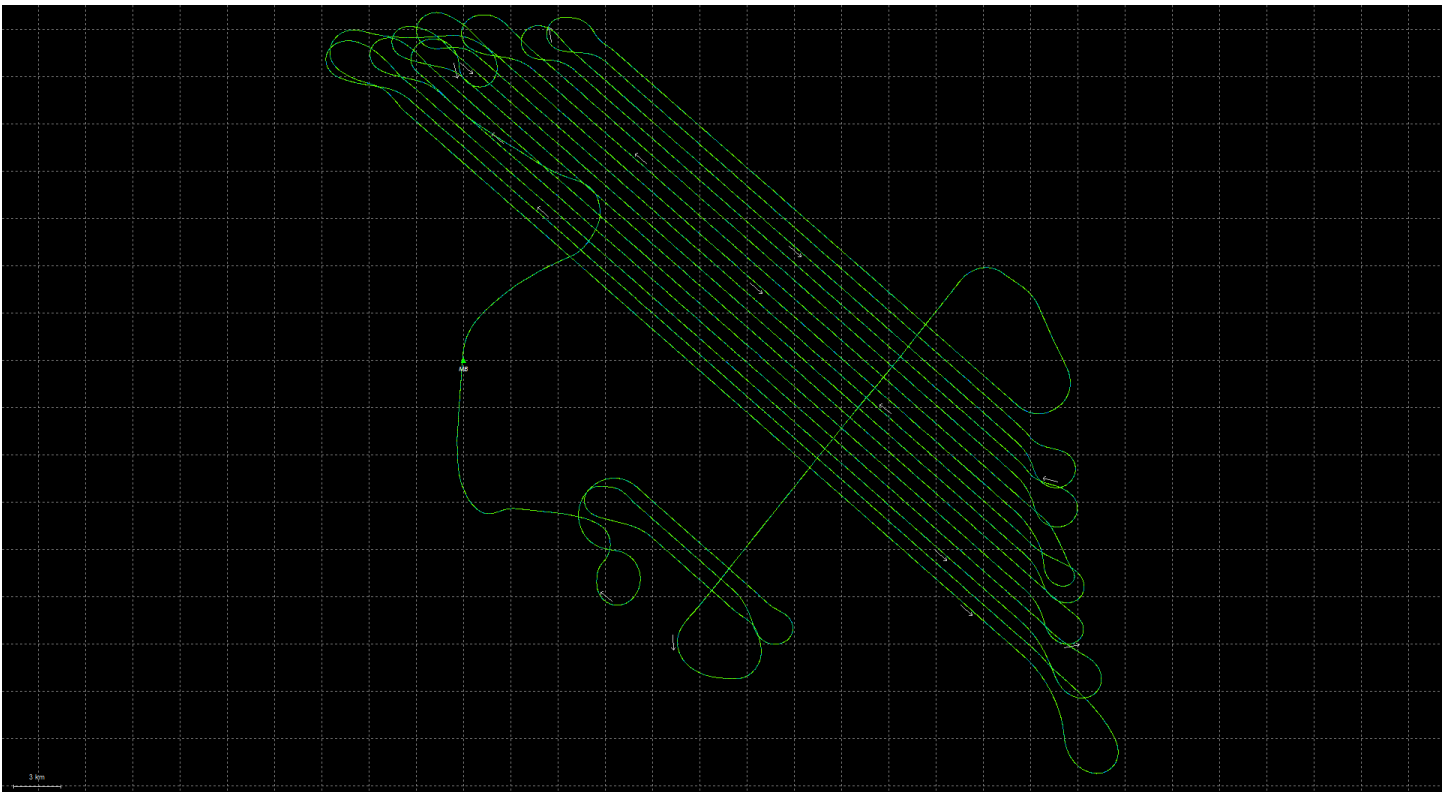
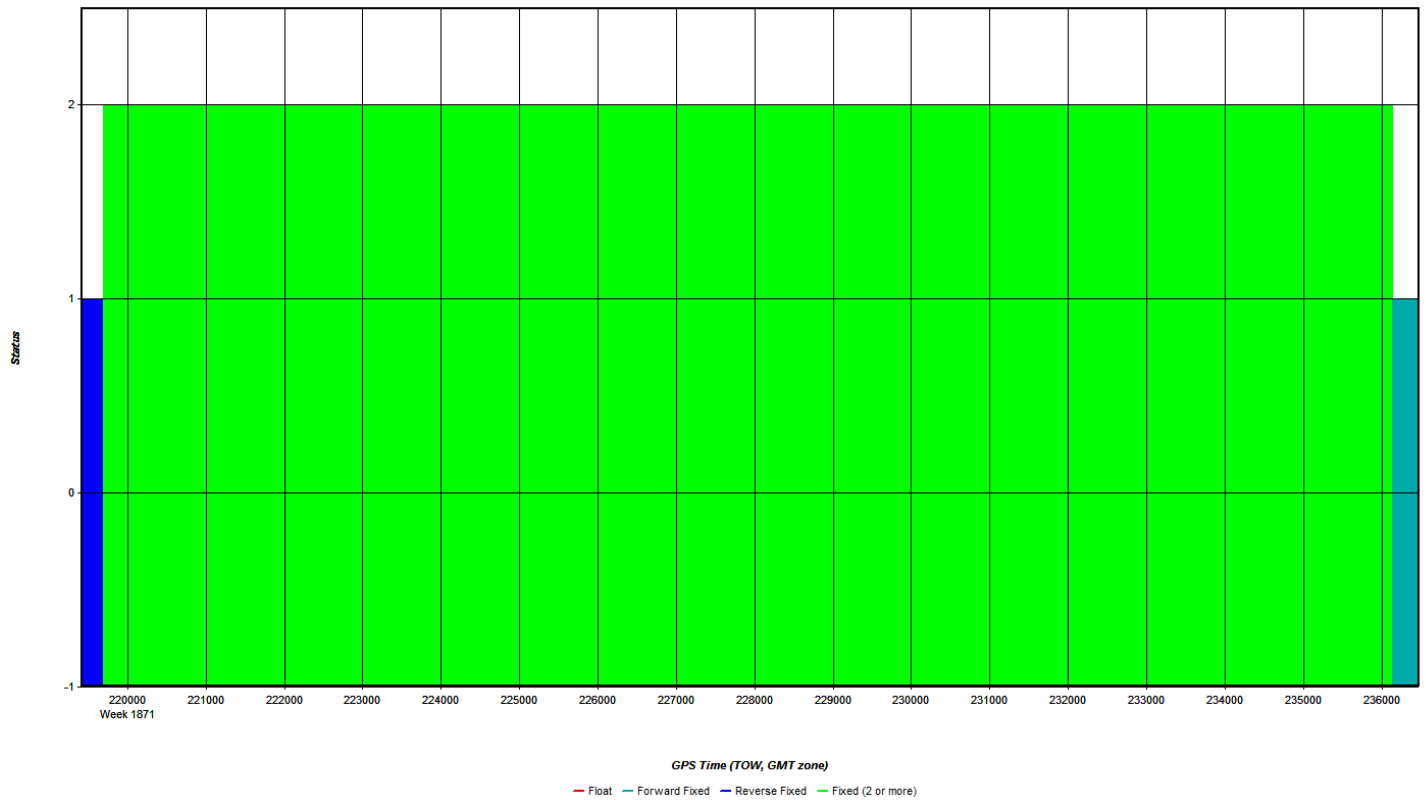
Base Station
 2: VTSP Name: VTSP Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\RAW_Data\CK2N\

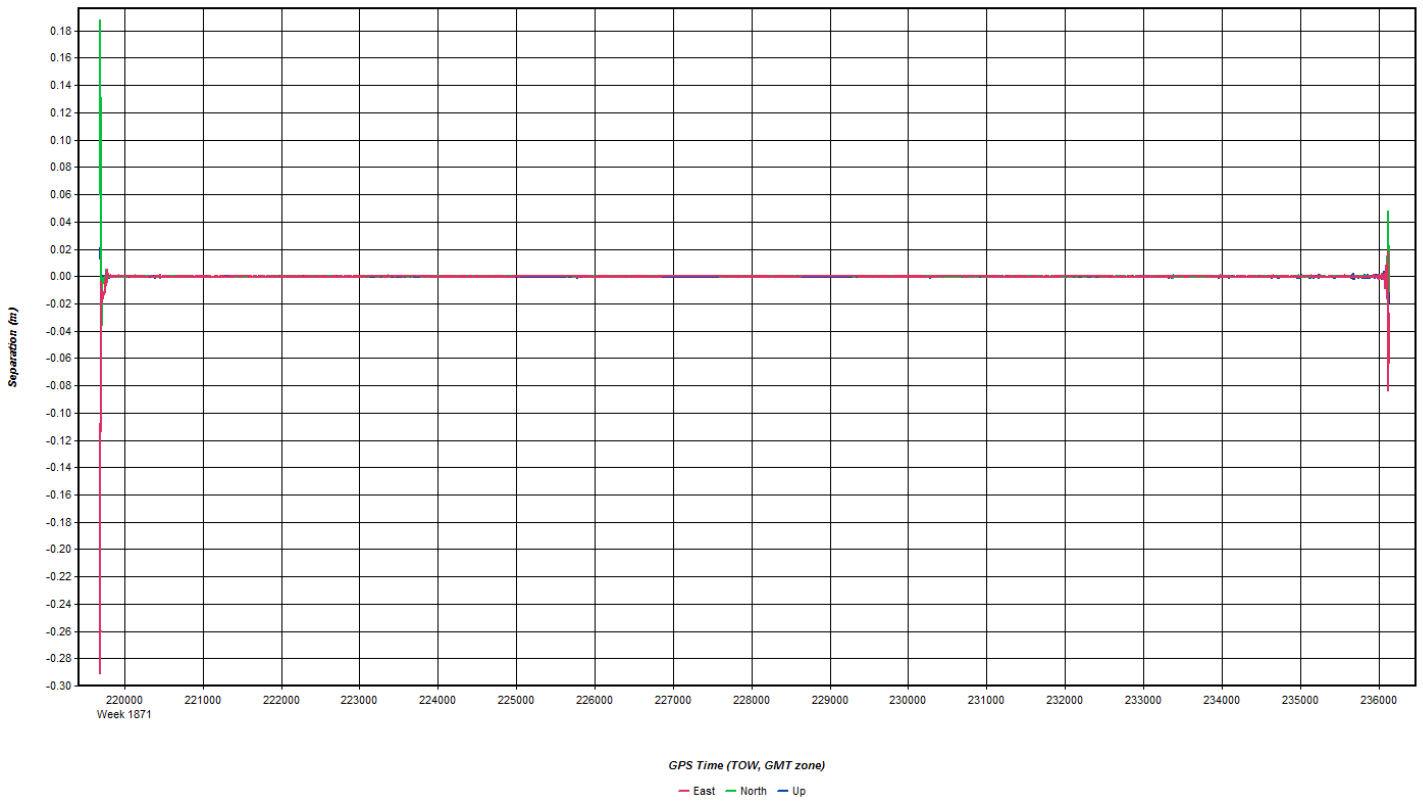
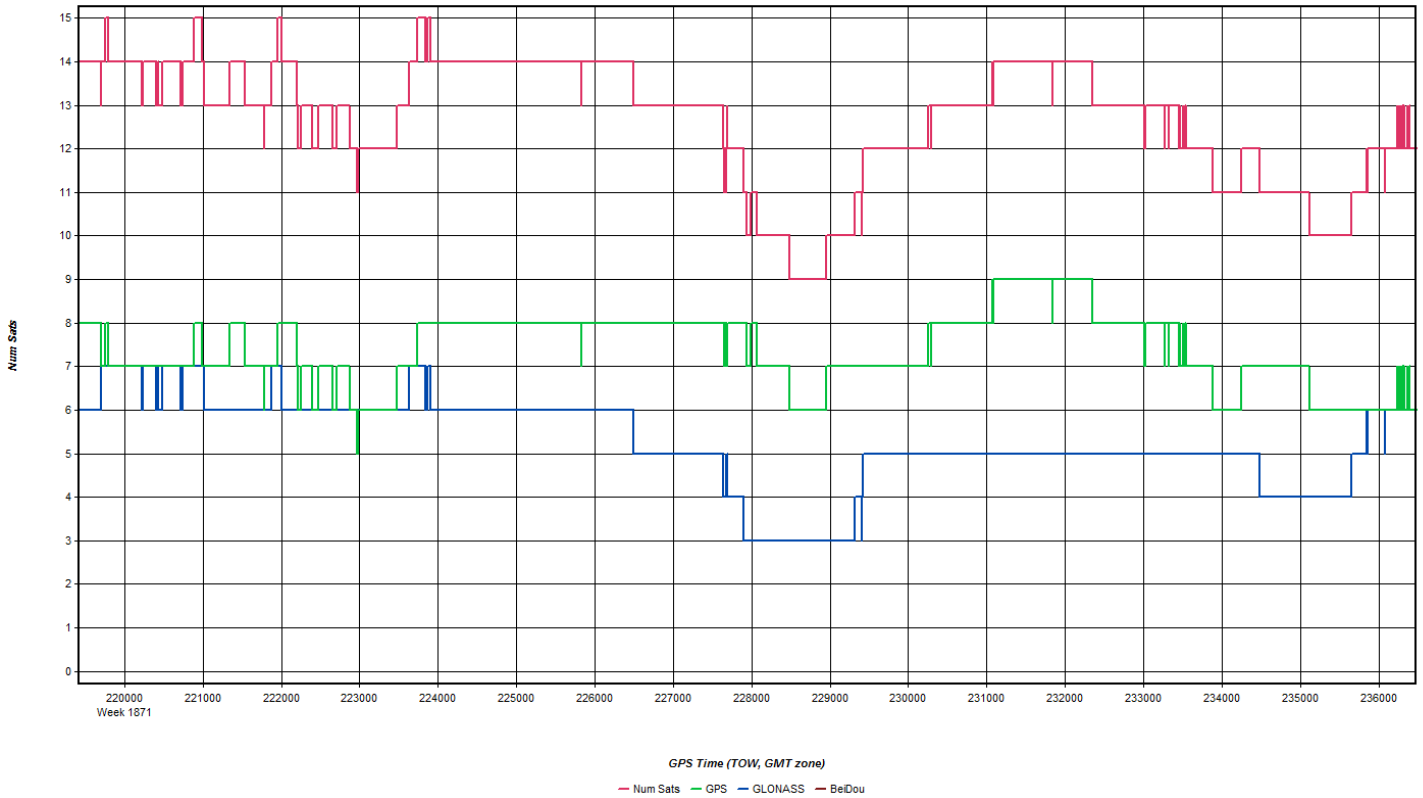
Coordinates
 Latitude: North 43 16 53.24114 Compute from PPP
 Longitude: West 72 28 39.23841 Enter Grid Values
 Ellipsoidal height: 156.441 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

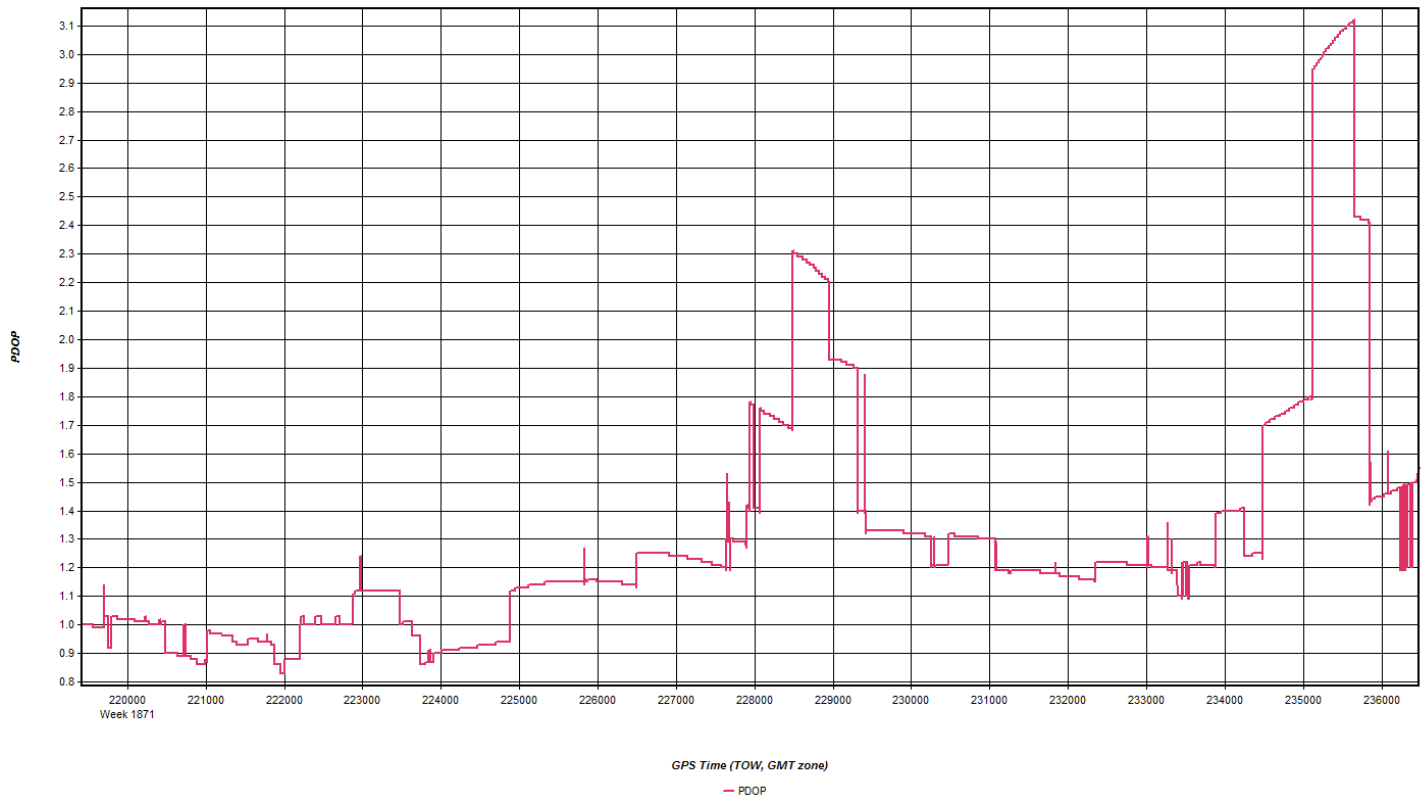
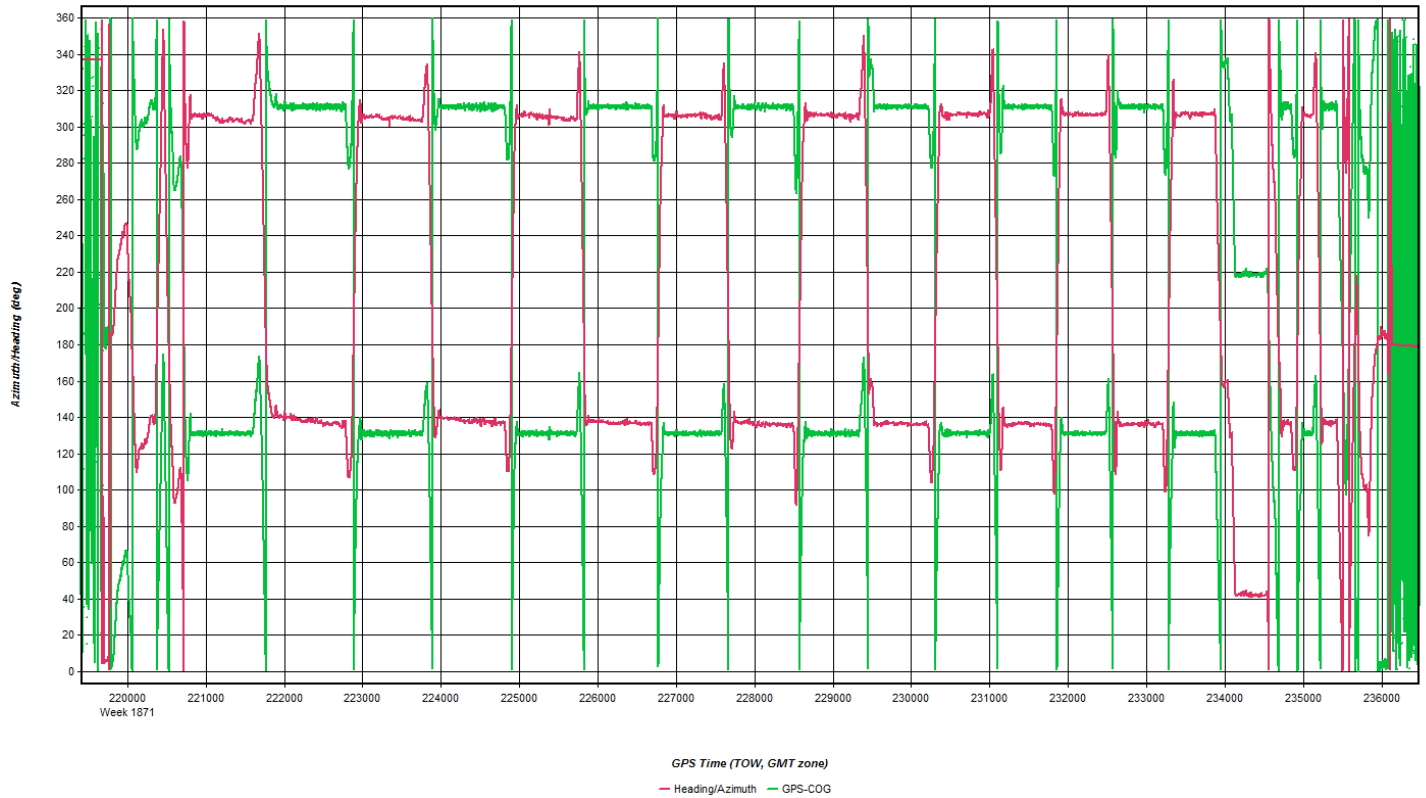
Antenna Height
 From station file: TRM55971.00, NONE View STA File
 Antenna profile: TRM55971.00 Info
 Measured height: 0.000 m
 ARP to L1 offset: 0.067 m
 Applied height: 0.067 m
 Measured to:
 ARP
 L1 Phase Centre
 Compute From Slant

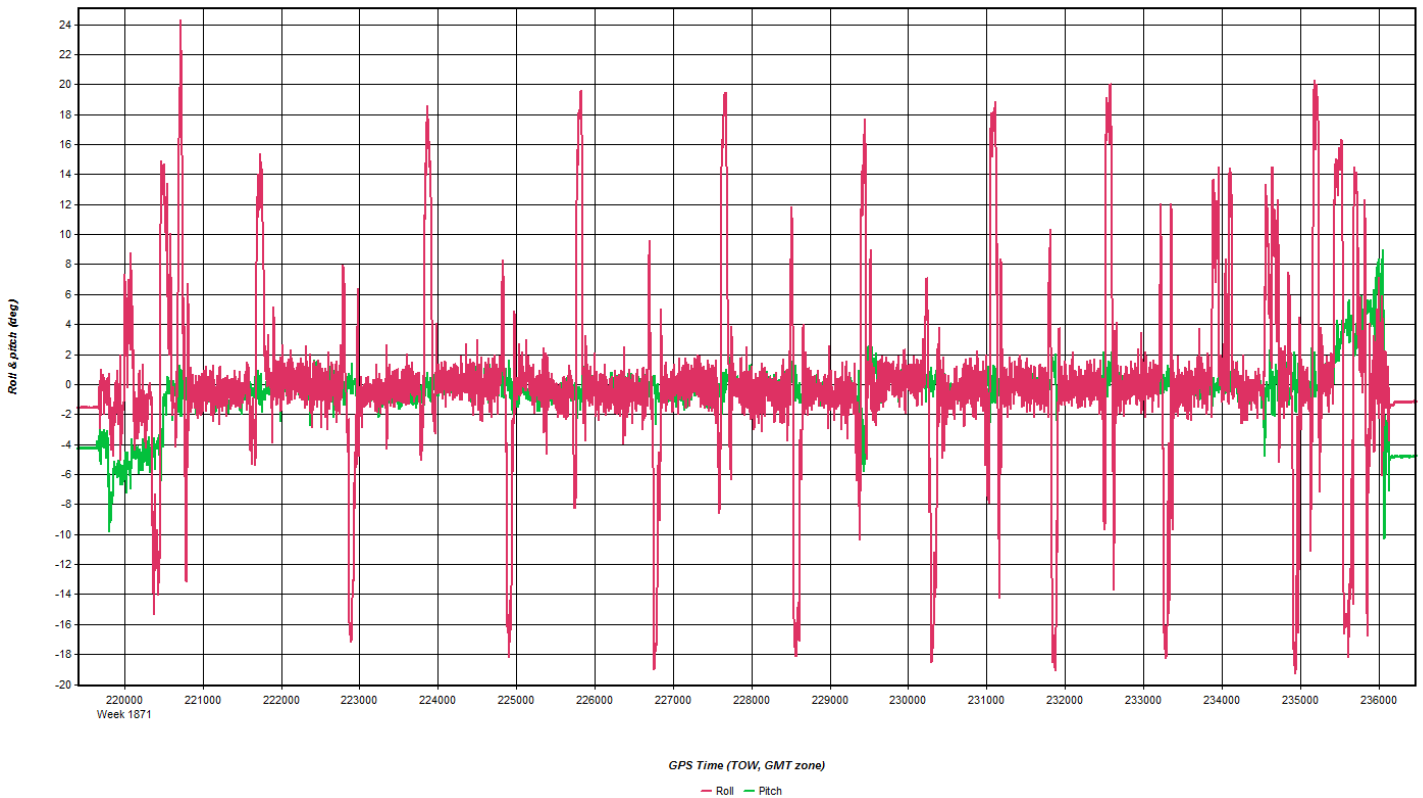
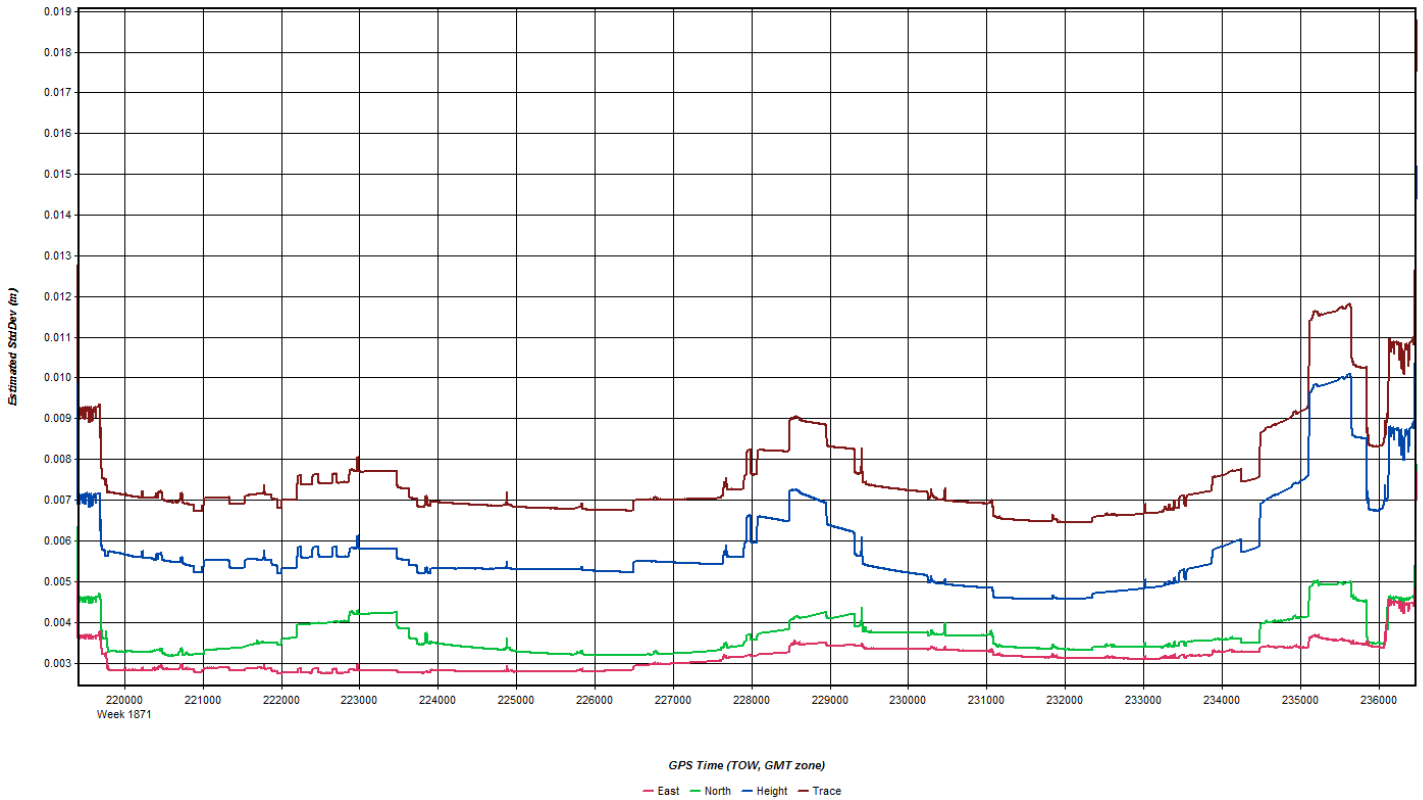
OK Cancel

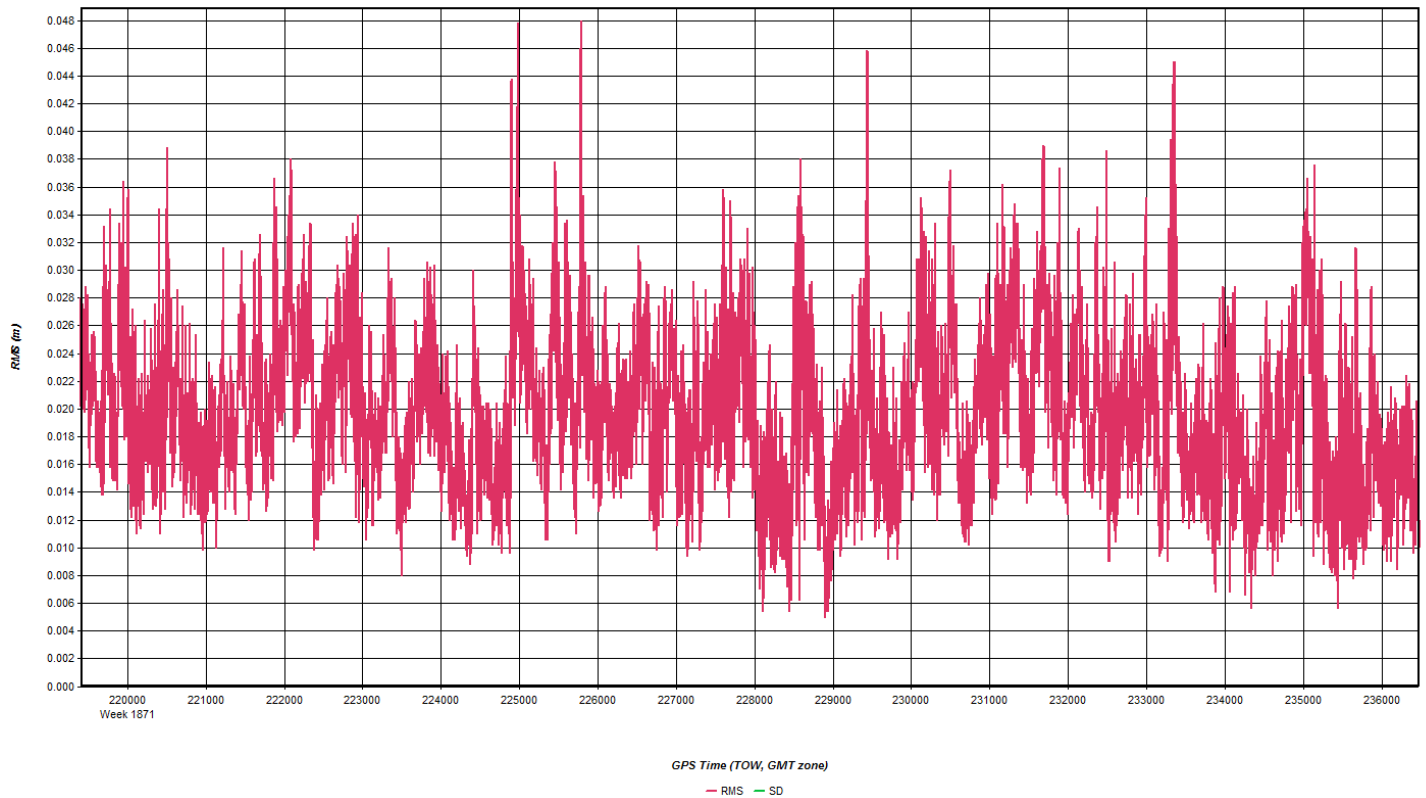
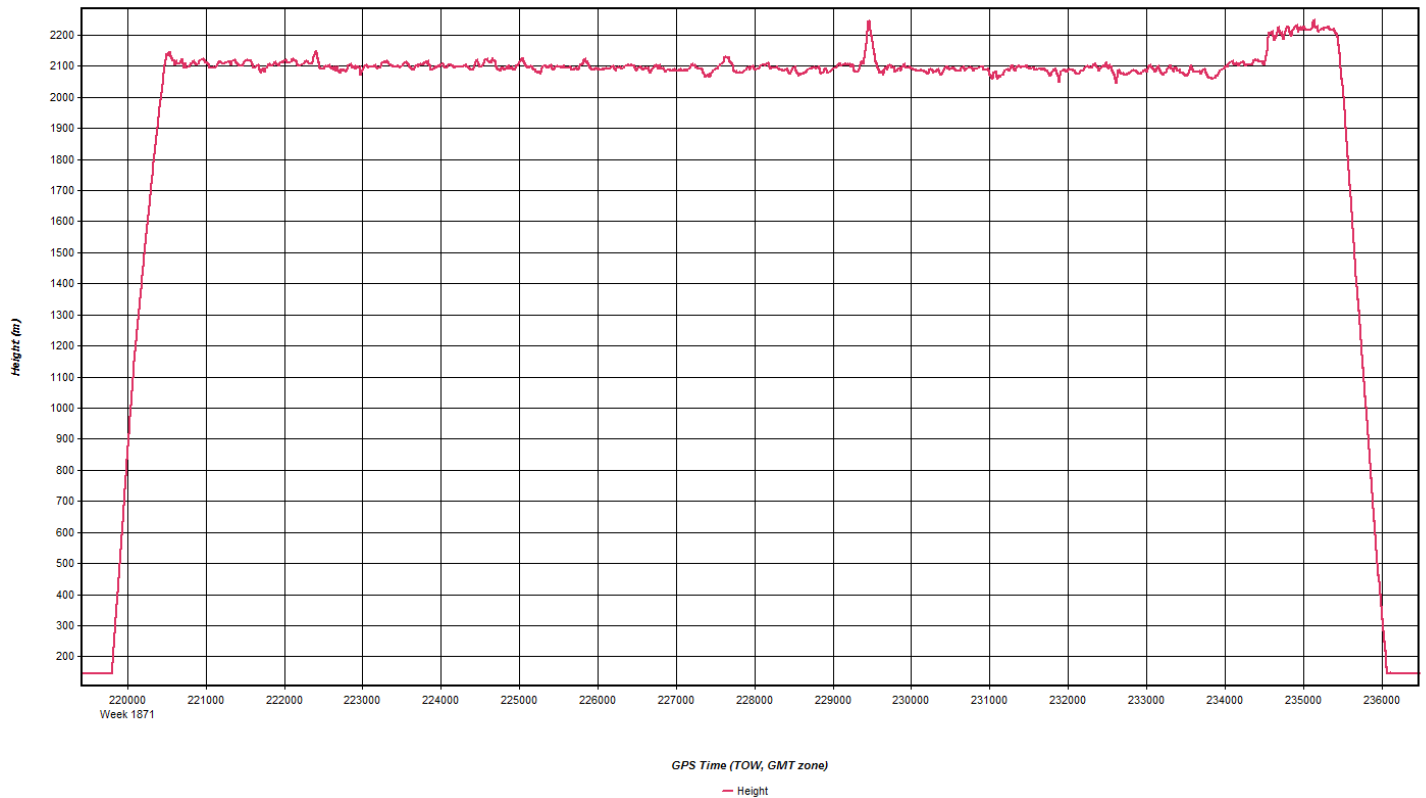
Nov 17, 2015-A (N799AC, SN7169)

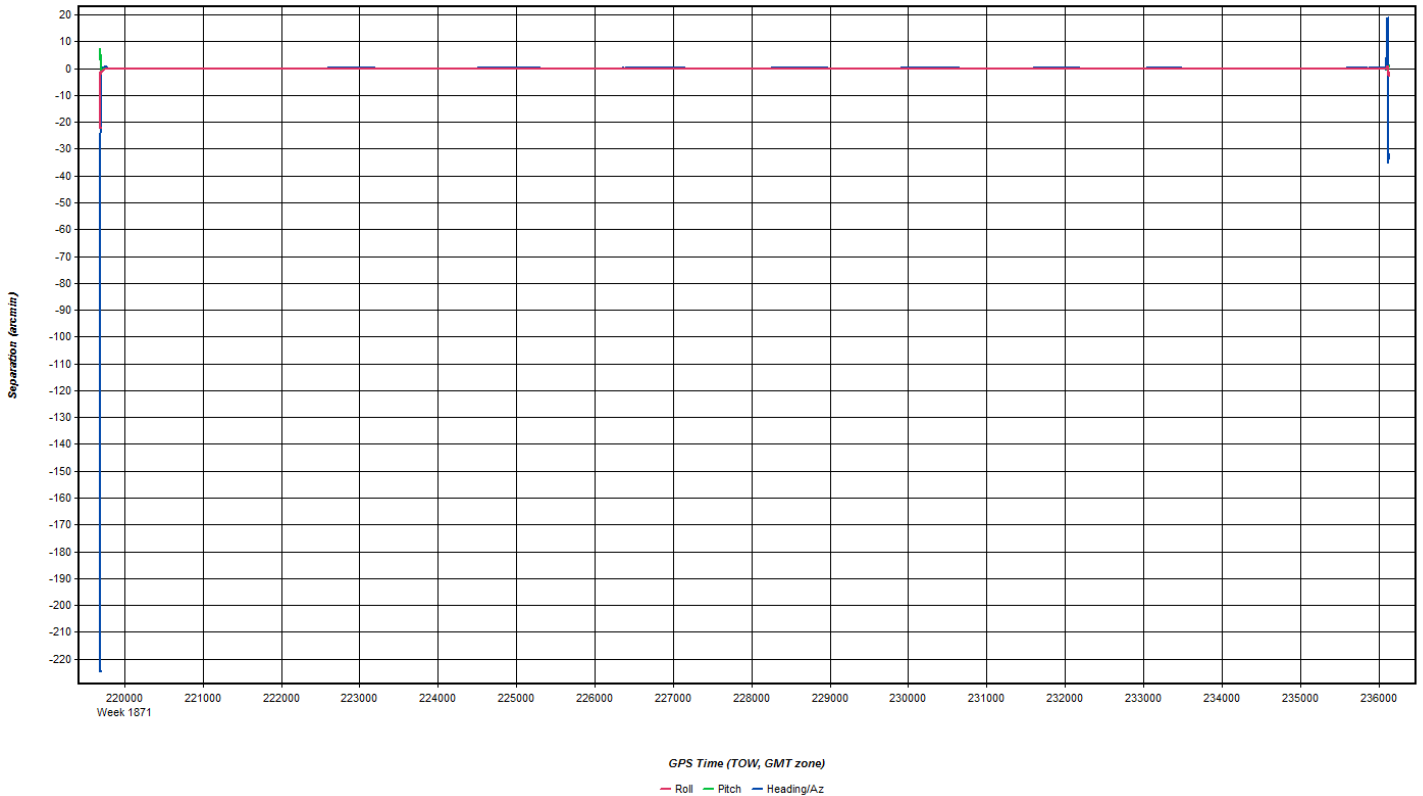












Coordinate/Antenna Settings

Master Remote

Base Station
 1: MB Name: MB Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\RAW_Data\R077\


Coordinates
 Latitude: North 43 46 04.16098 Compute from PPP
 Longitude: West 71 23 12.42431 Enter Grid Values
 Ellipsoidal height: 147.018 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

Antenna Height
 From station file: TRMR10, NONE View STA File
 Antenna profile: TRMR10 Info
 Measured height: 2.050 m
 ARP to L1 offset: 0.128 m
 Applied height: 2.178 m
 Measured to:
 ARP
 L1 Phase Centre
 Compute From Slant

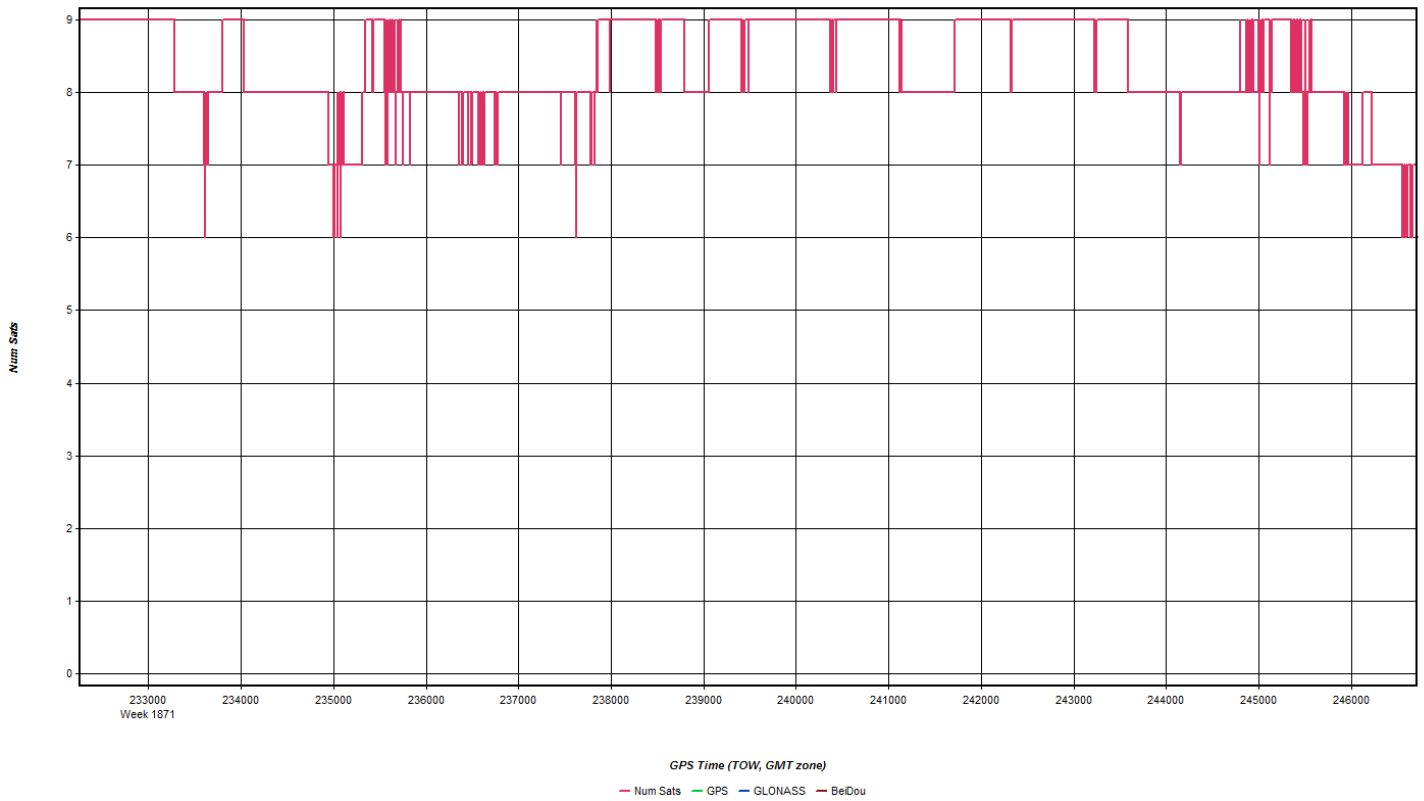
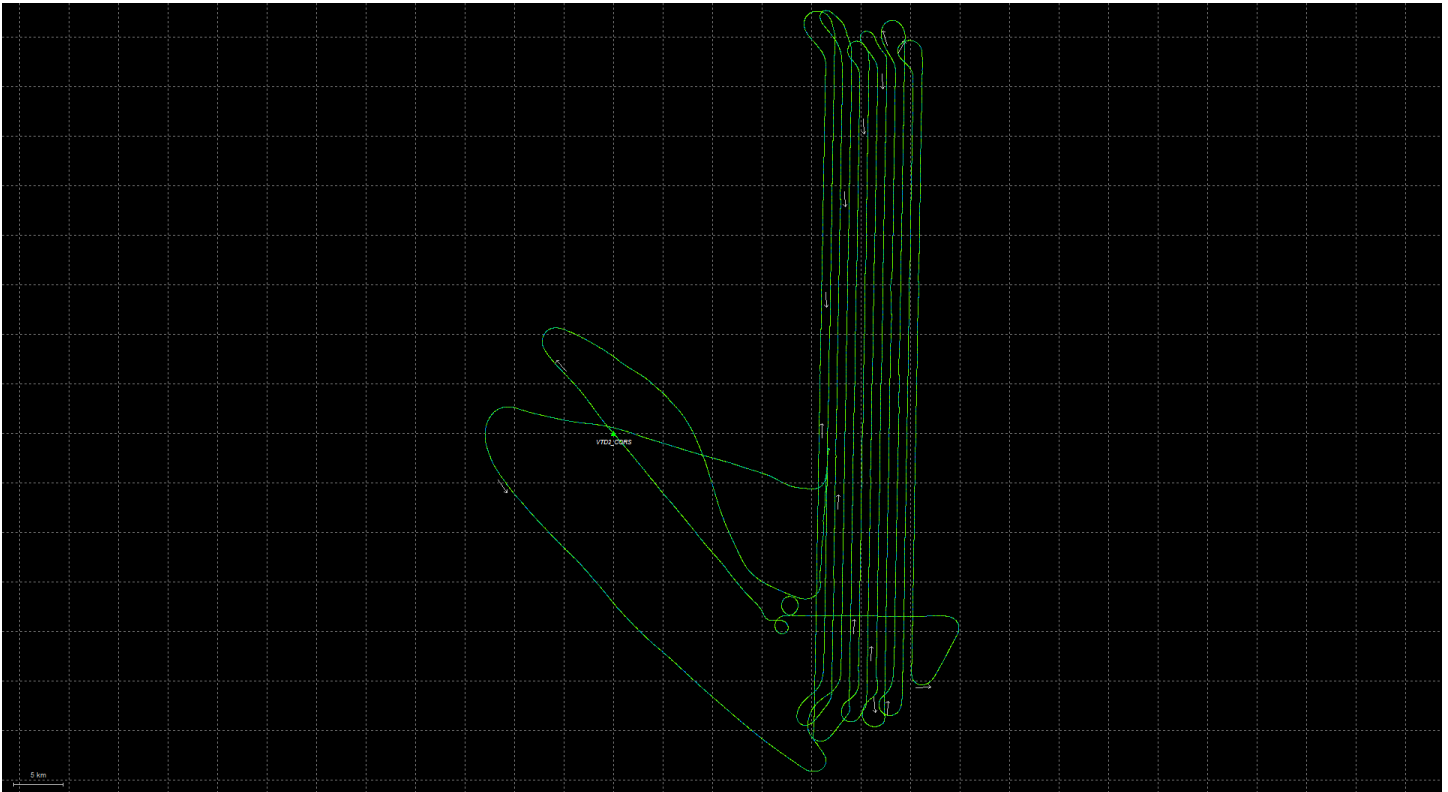
OK Cancel

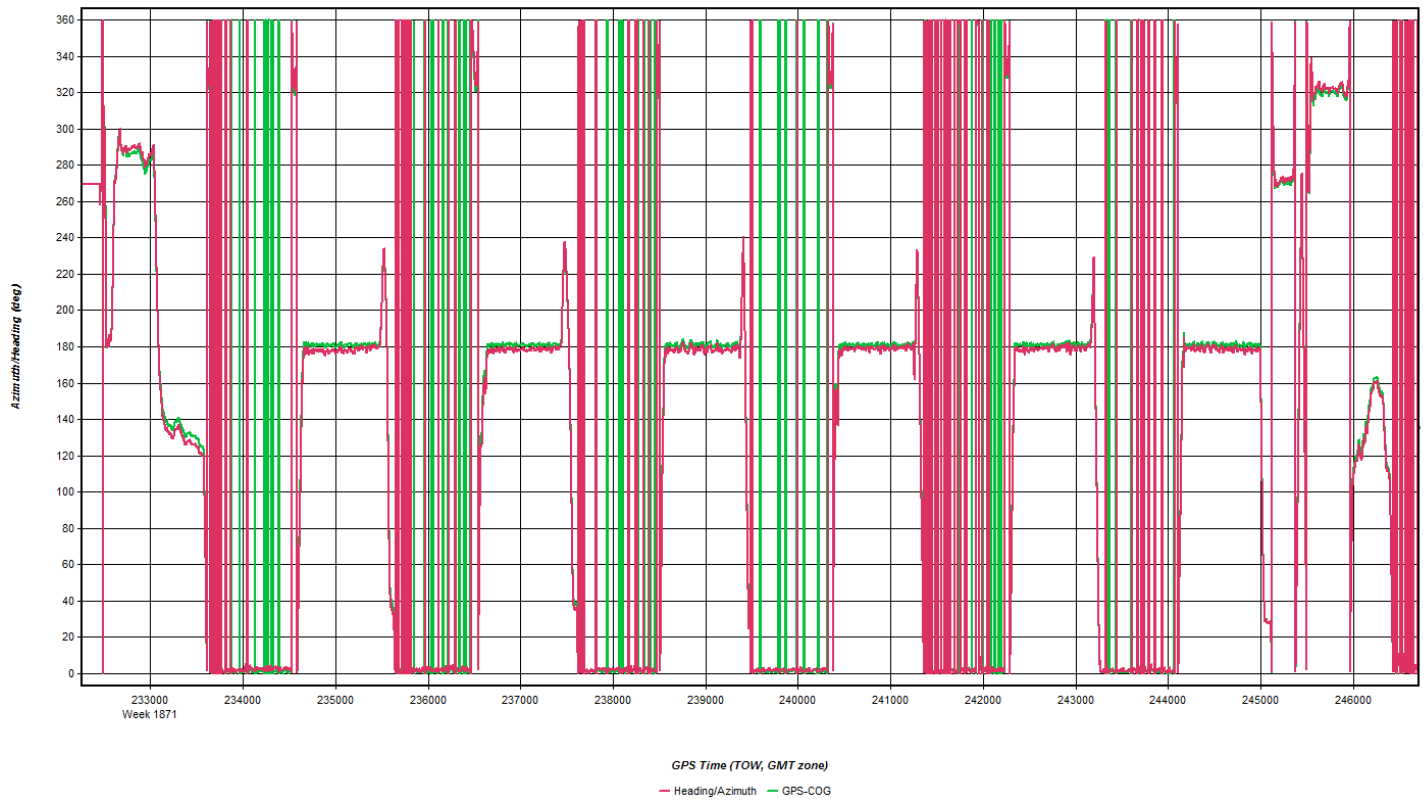
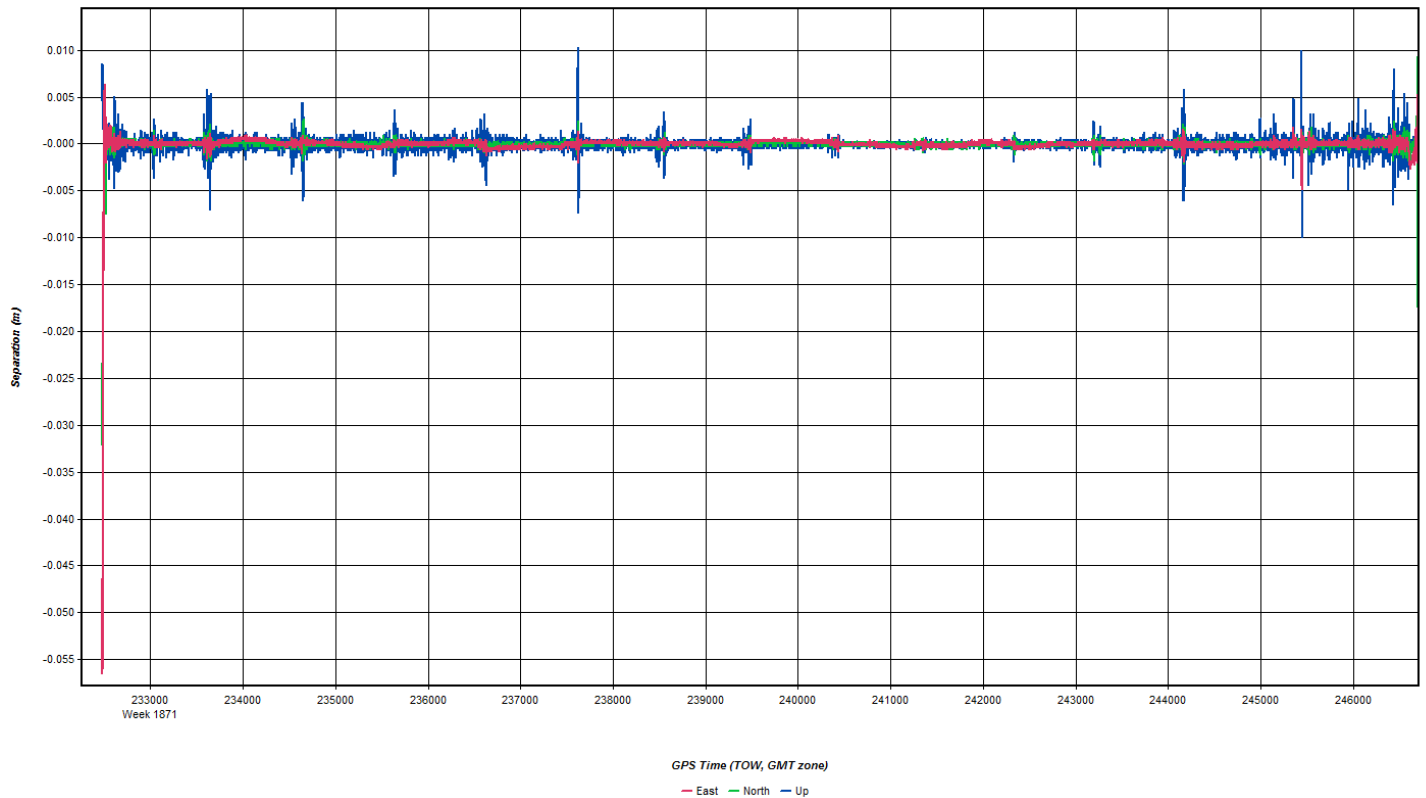
Base Station Log

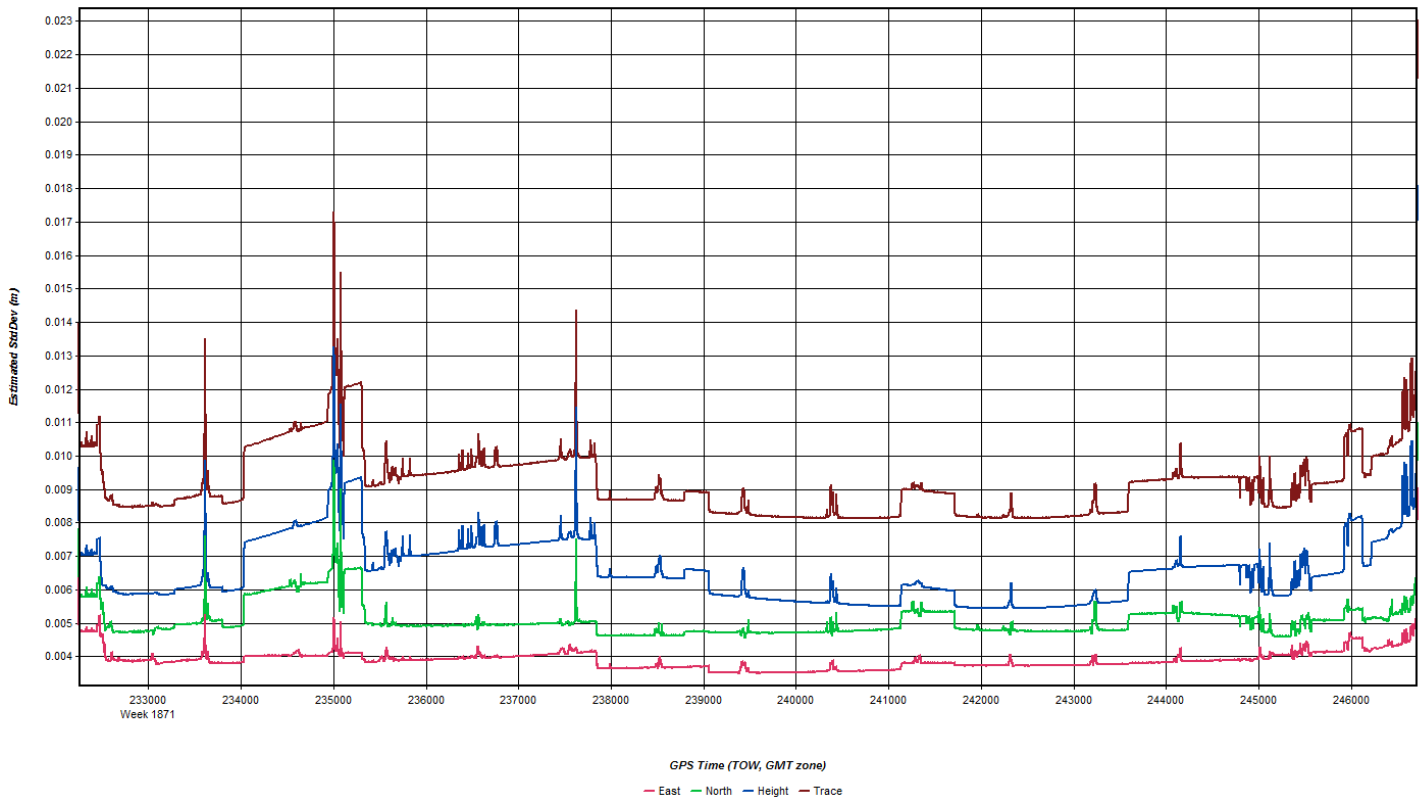
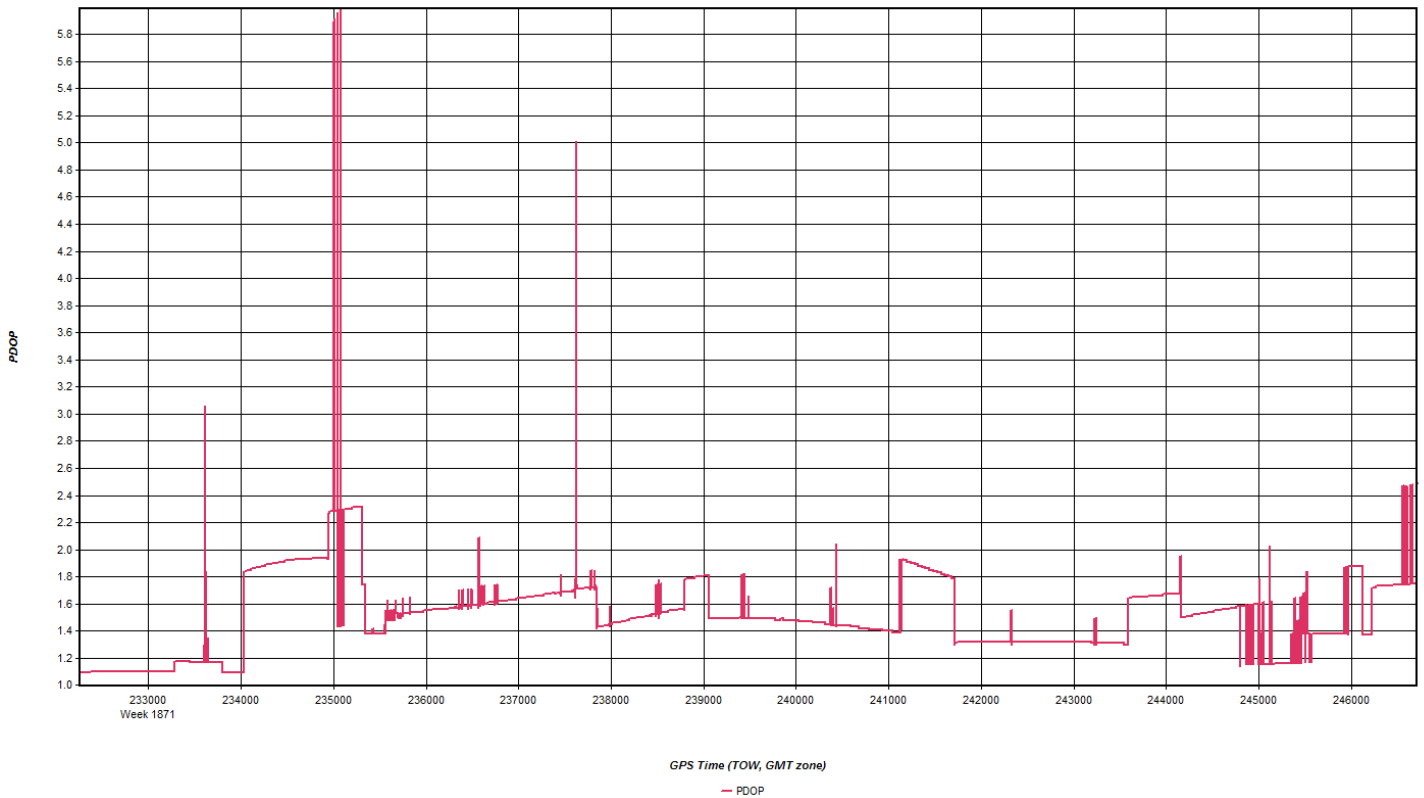
GPS SESSION FORM

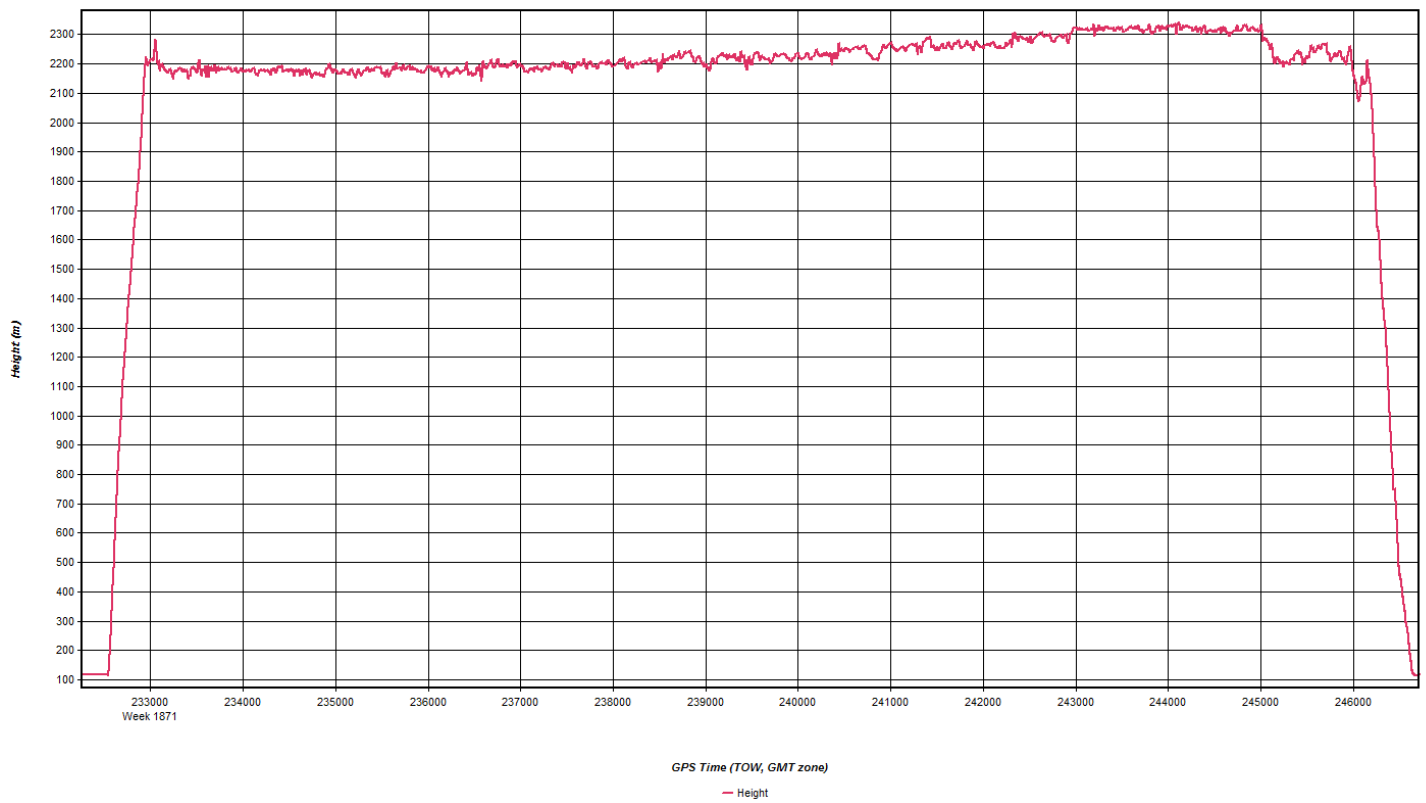
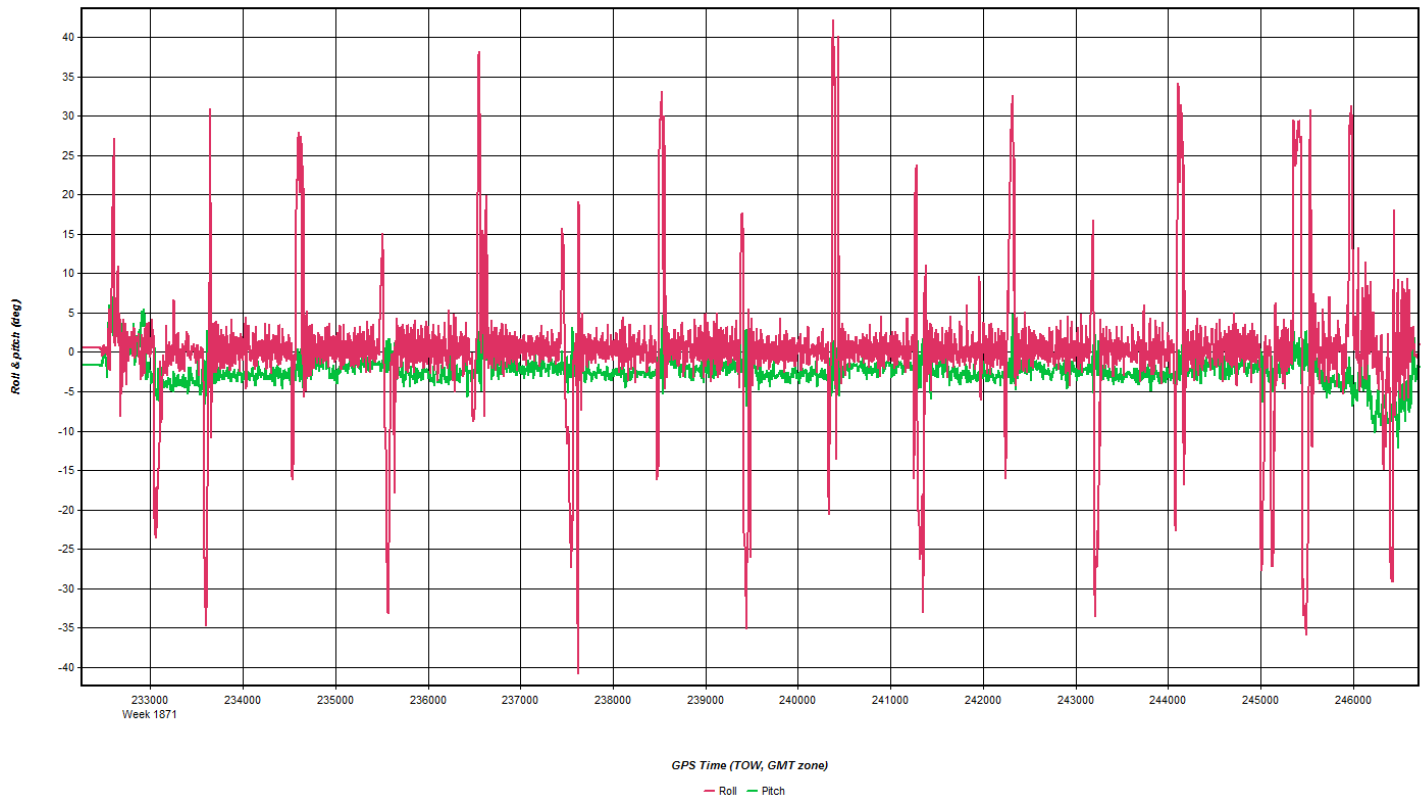
Contract # / TO #		Client / Project Name		Date	
		Quantum- MOD1 M2		17-Nov-2015	
PAR Project No.		Survey Firm		Operator Name	
		PAR, LLC		Parker	
Monument Name/Designation			Exact Stamping <i>(photo in survey report)</i>		
Moultonboro_Nail			N/A		
Monument No./PID		Collection Type <i>(circle one)</i>		File Name <i>(receiver generated)</i>	
N/A		<input checked="" type="radio"/> ABGPS <input type="radio"/> STATIC <input type="radio"/> RTK		19823211.T02	
Receiver Manufacturer		Receiver Model		Receiver Serial No.	
Trimble		R10		5252421982	
Data Collector Manufacturer		Data Collector Model		Data Collector Serial No.	
Trimble		Ranger/TSC3		354114046299449	
Antenna Part No.		Antenna Model		Antenna Serial No.	
Starting Antenna Height in Feet		Starting Antenna Height in Meters		Type of Measurement <i>(circle one)</i>	
1	2	3	AVG	1	2
				2.050	2.050
				2.050	2.050
				TRUE VERTICAL	
				<input checked="" type="radio"/> ARP	
Ending Antenna Height in Feet		Ending Antenna Height in Meters		Type of Measurement <i>(circle one)</i>	
1	2	3	AVG	1	2
				2.050	2.050
				2.050	2.050
				TRUE VERTICAL	
				<input checked="" type="radio"/> ARP	
Antenna Reference Point <i>(diagram in survey report)</i>					
<i>(Antenna Reference Point = VR + VO + VE2)</i>					
<i>ARP to Phase = 168mm</i>					
Start Date (UTC)		Start Time (UTC)		Approx. Lat. <i>(if available)</i>	
17-Nov-2015		12:47		43 46 4.16084(N)	
End Date (UTC)		End Time (UTC)		Approx. Long. <i>(if available)</i>	
17-Nov-2015		22:15		71 23 12.42417(W)	
Monument is in good condition			Site Diagram\Picture		
Ground Photos					

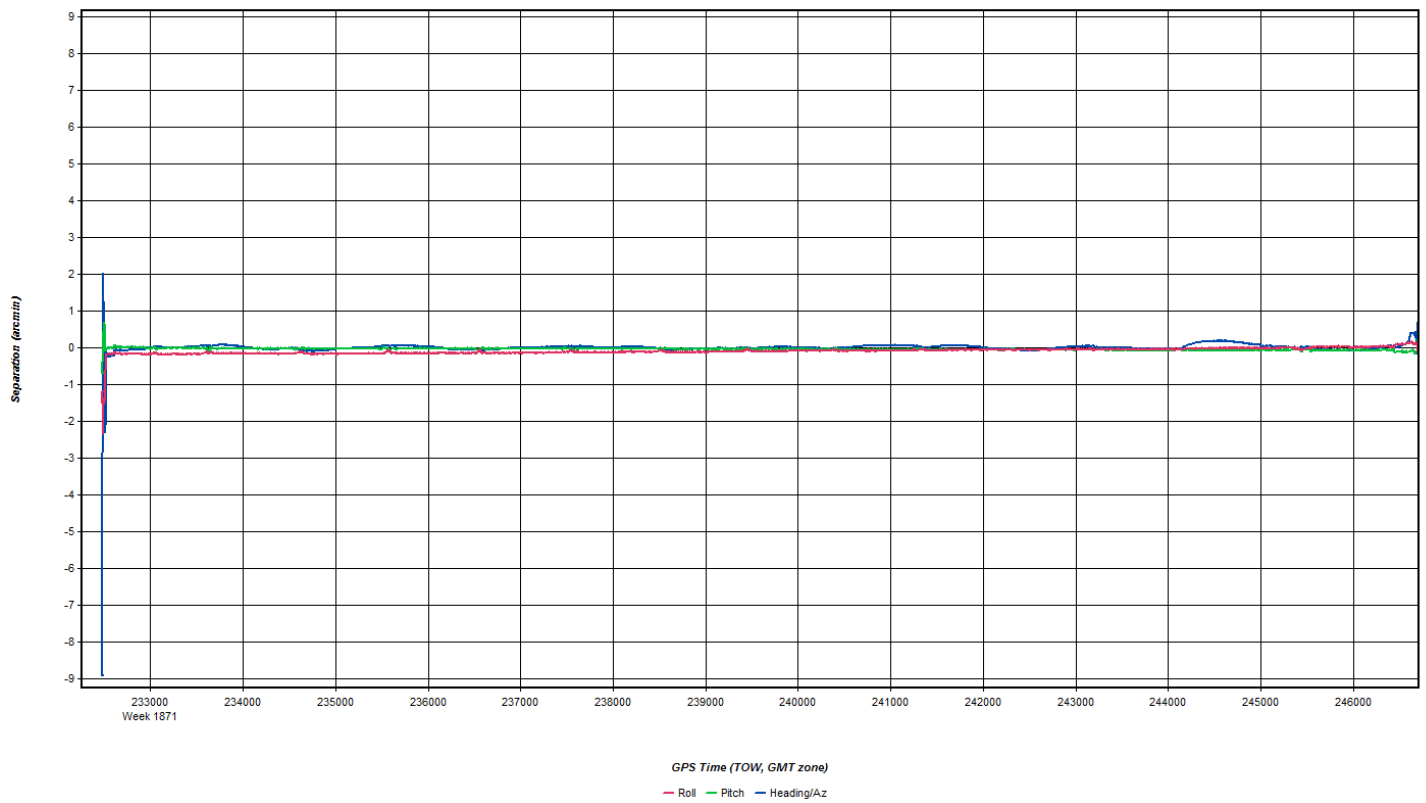
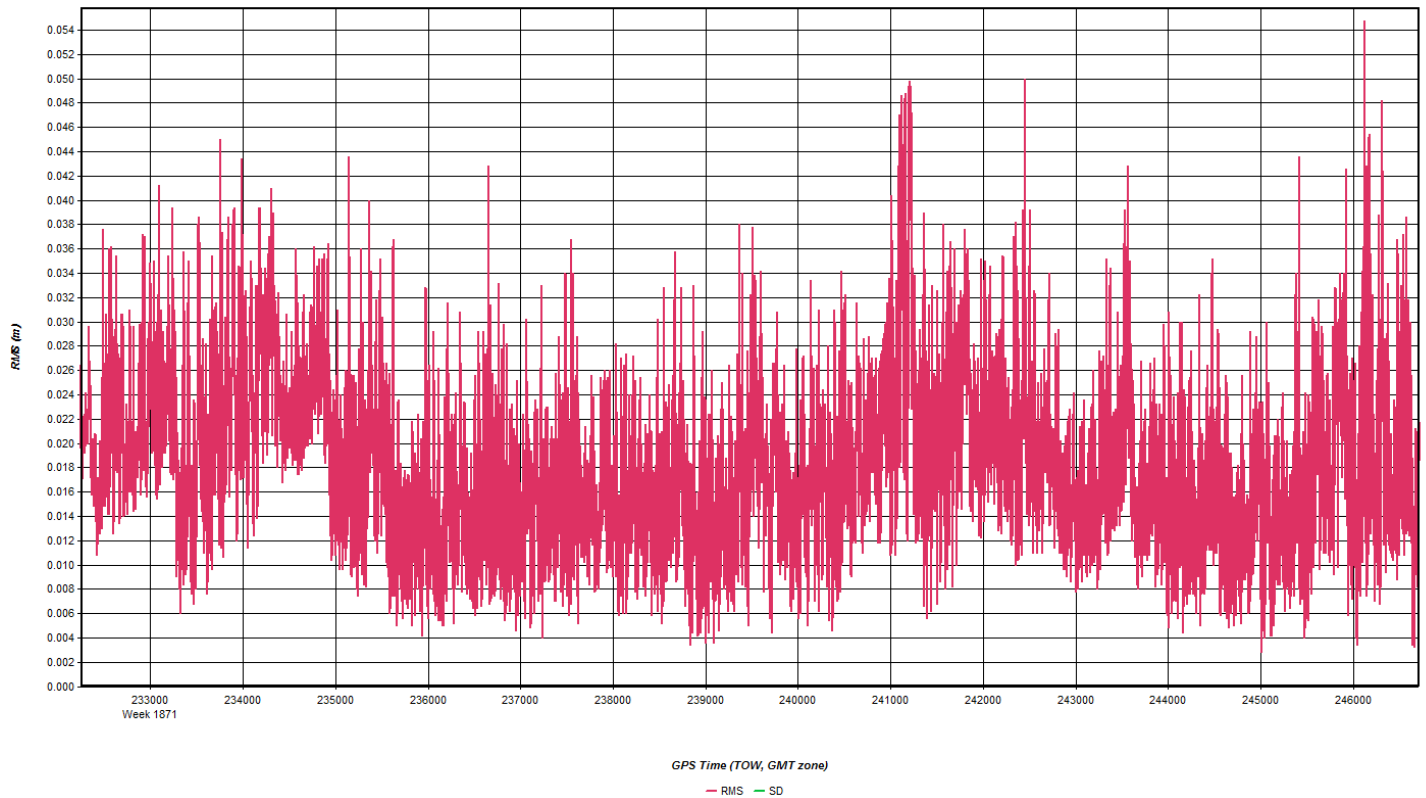
Nov 17, 2015-A (N1107Q, SN7108)

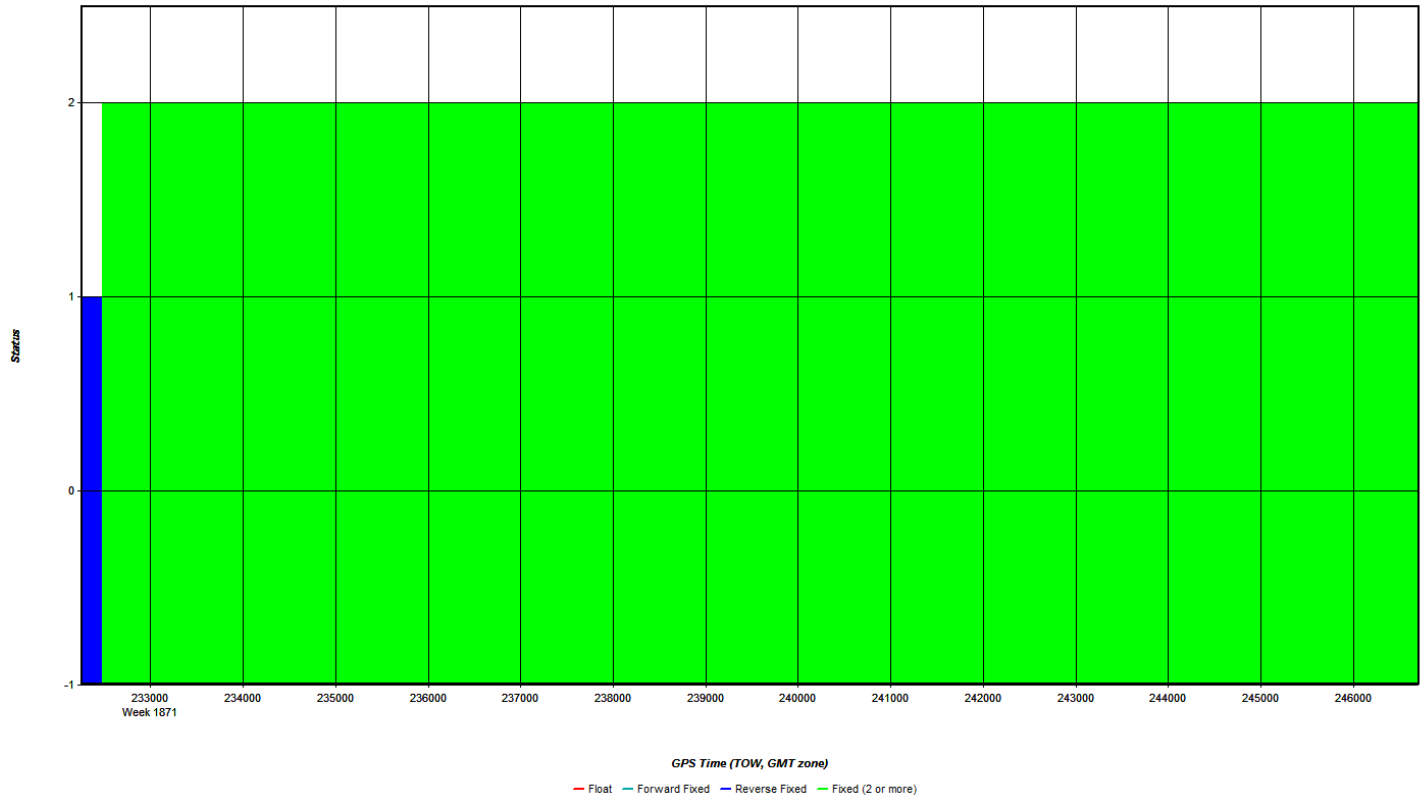












Coordinate/Antenna Settings

Master Remote

Base Station
 1: VTD2_CORS Name: VTD2_CORS Disabled
 File: F:\Proc\26818_CT_River\F9R8\ConnecticutRiver_Keene_NH\R:

Coordinates
 Latitude: North 42 55 06.10798 Compute from PPP
 Longitude: West 72 32 06.44140 Enter Grid Values
 Ellipsoidal height: 98.040 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

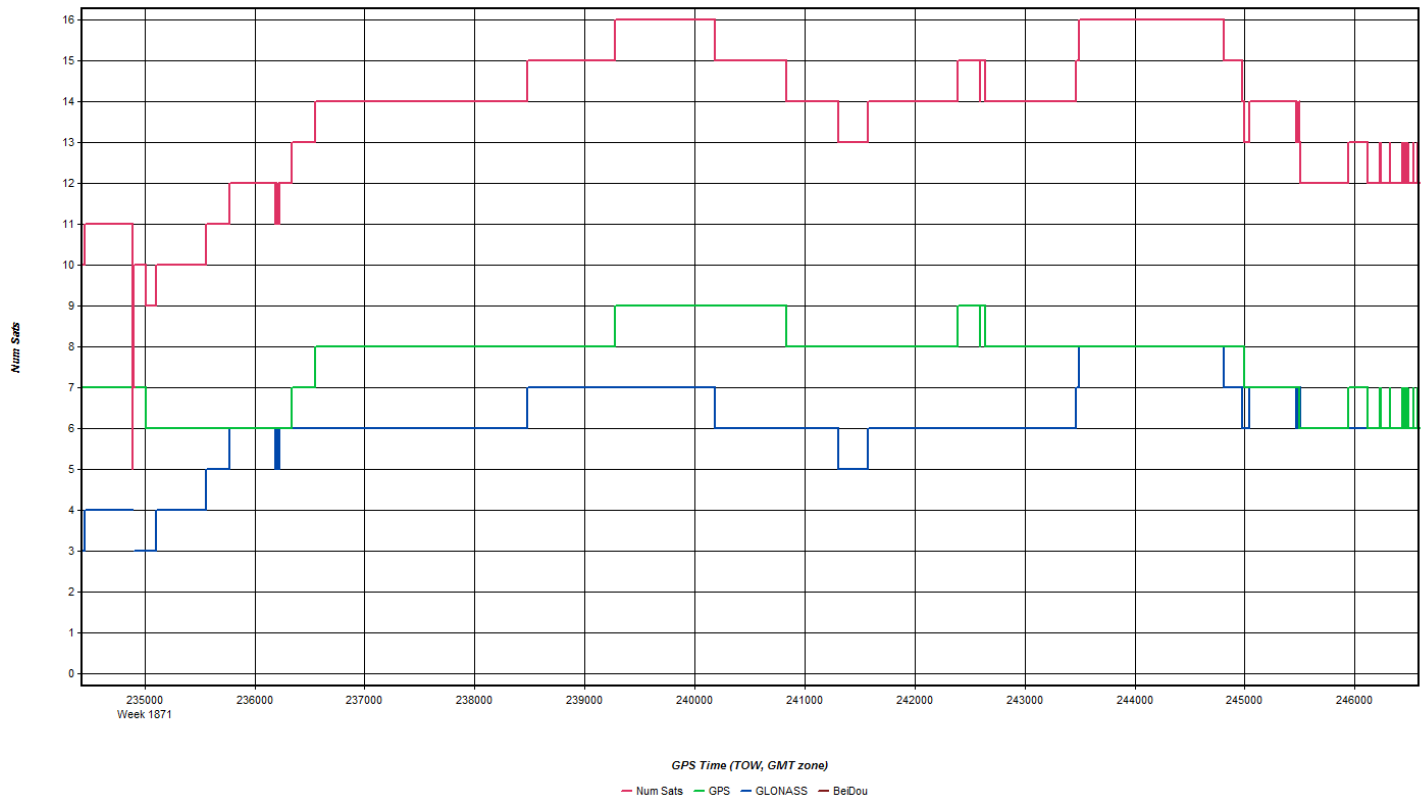
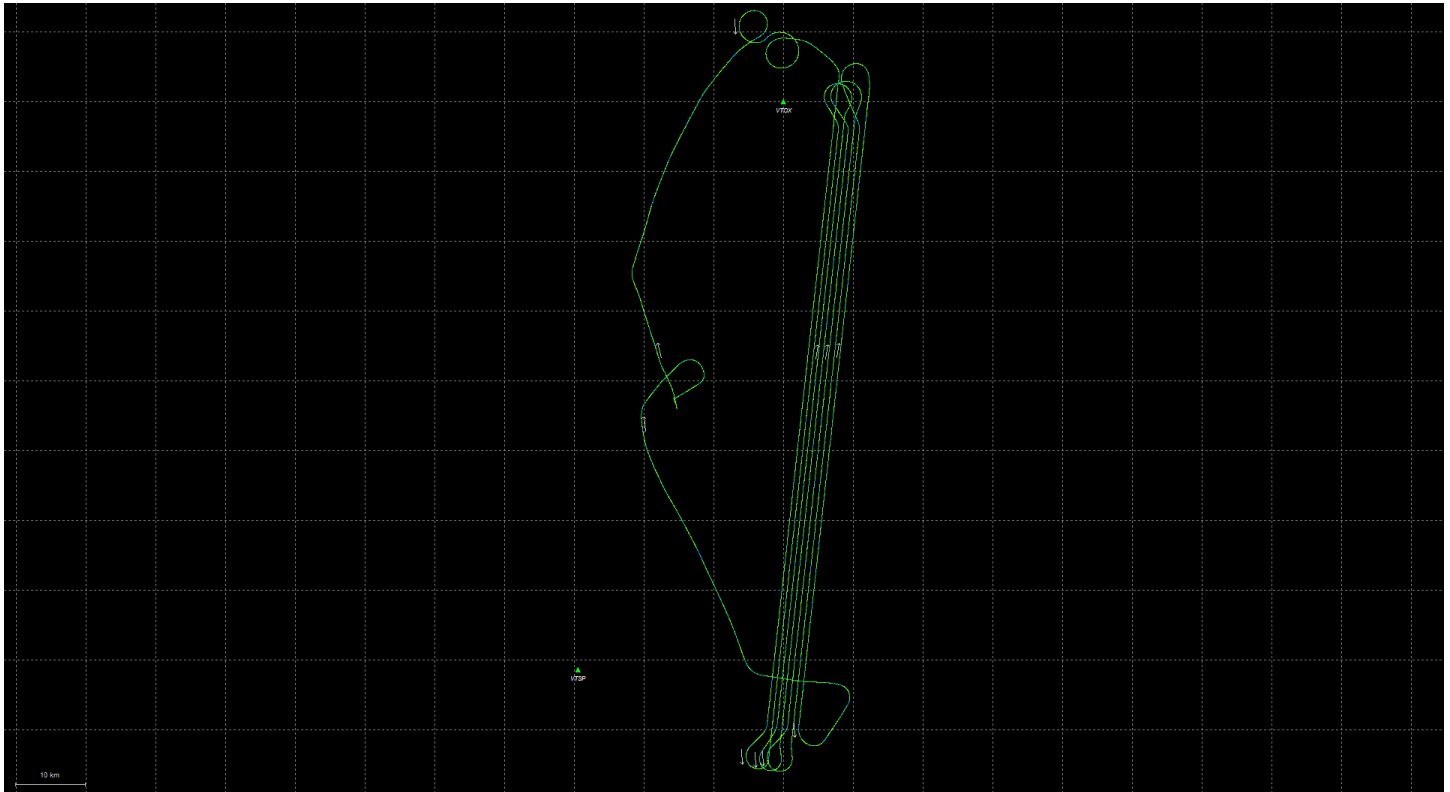
Antenna Height
 From station file: TRM55971.00, NONE View STA File
 Antenna profile: TRM55971.00 Info

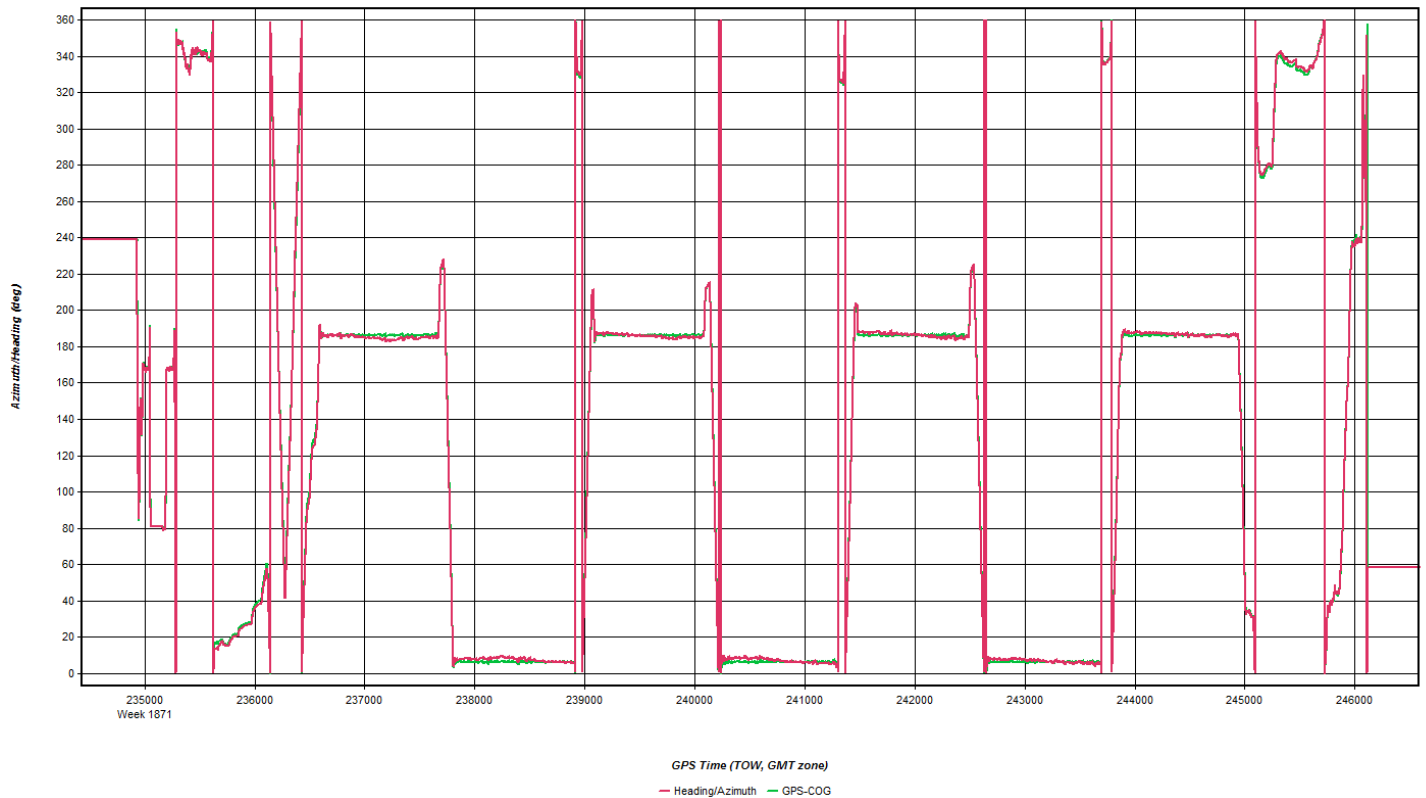
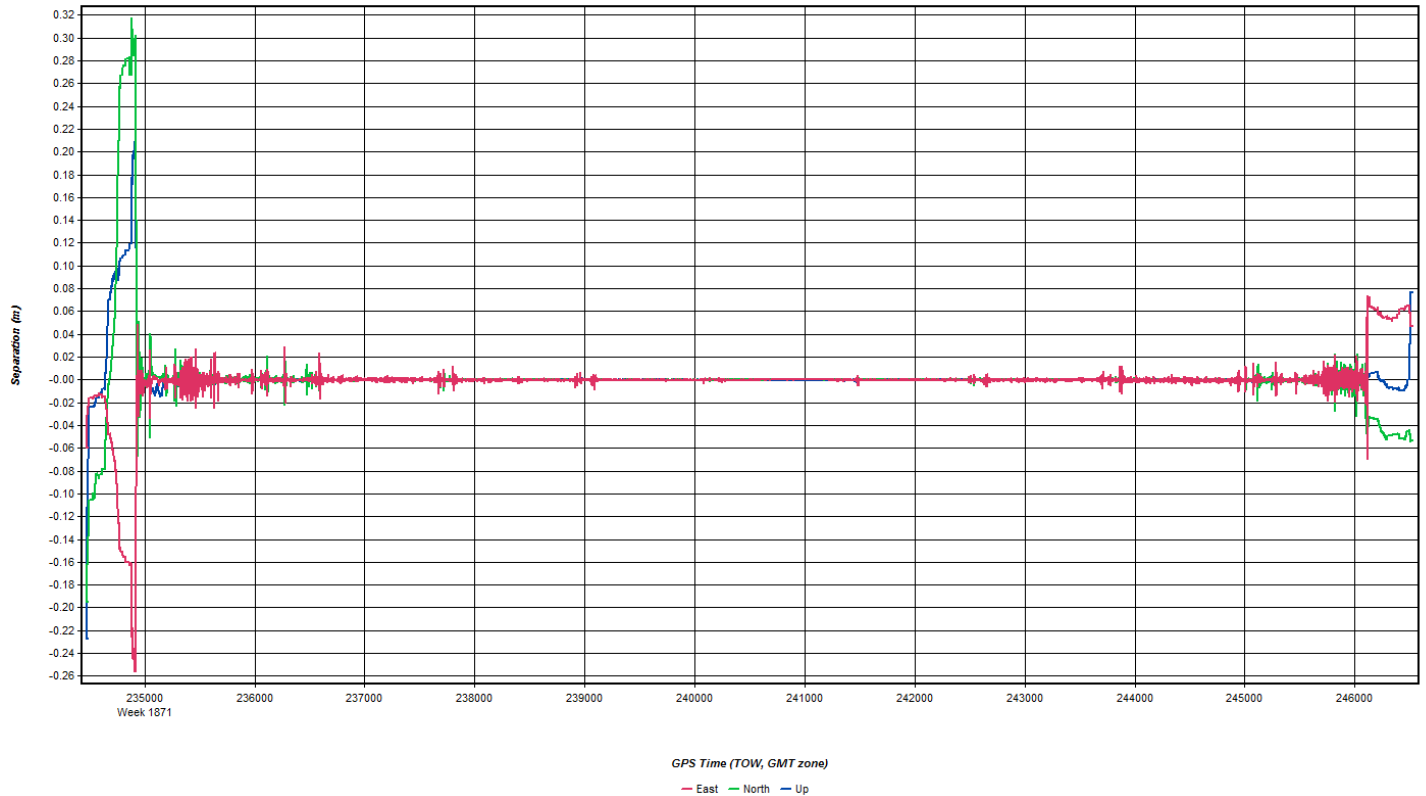
Measured height: 0.000 m
 ARP to L1 offset: 0.067 m
 Applied height: 0.000 m

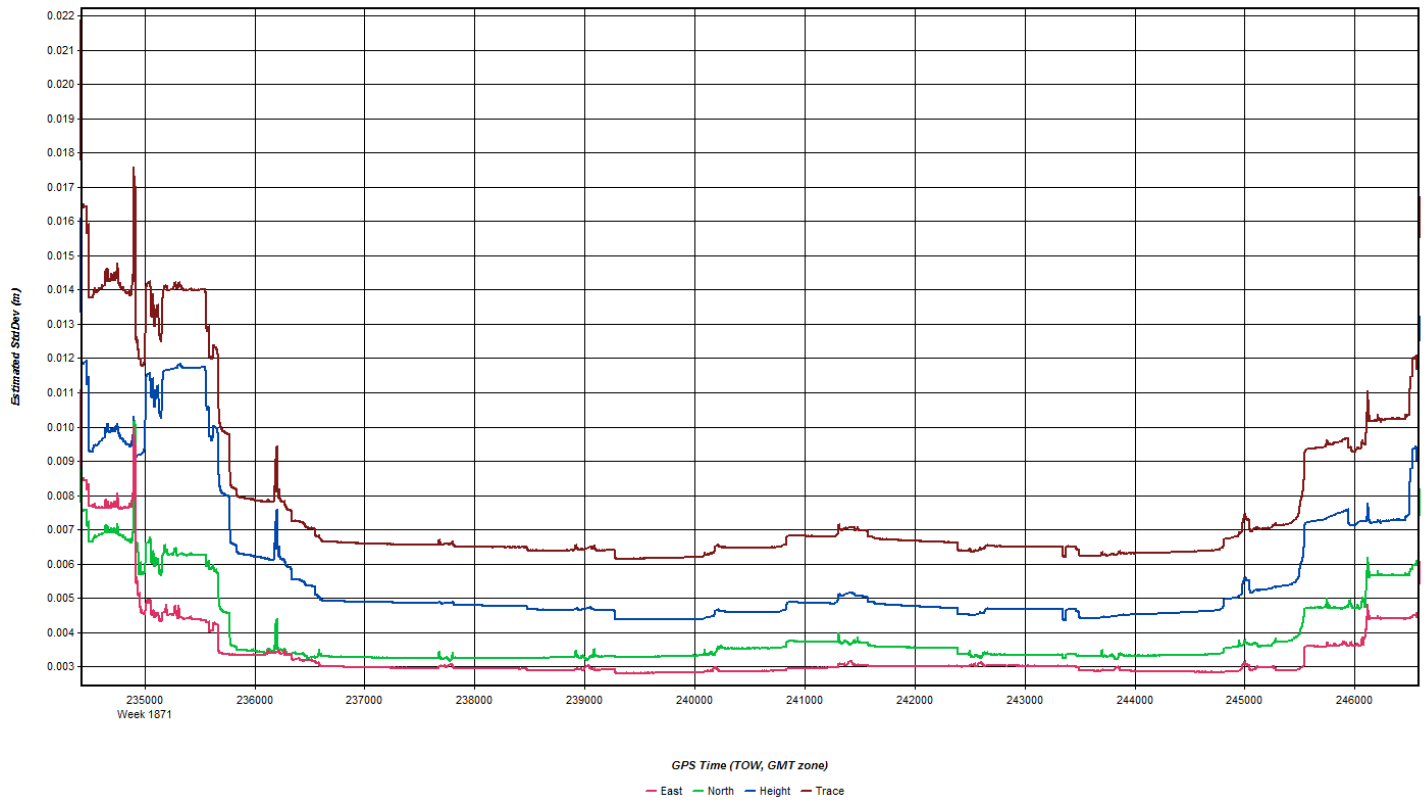
Measured to
 ARP
 L1 Phase Centre
 Compute From Slant

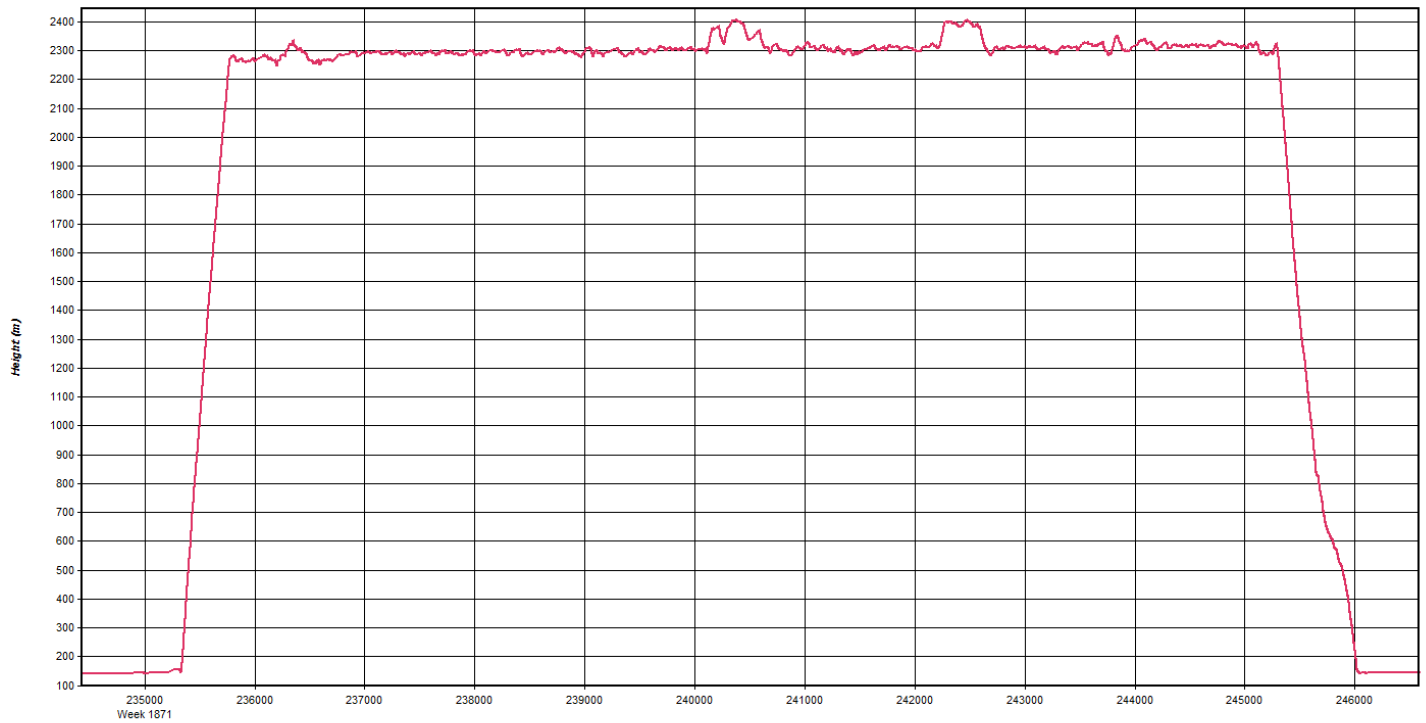
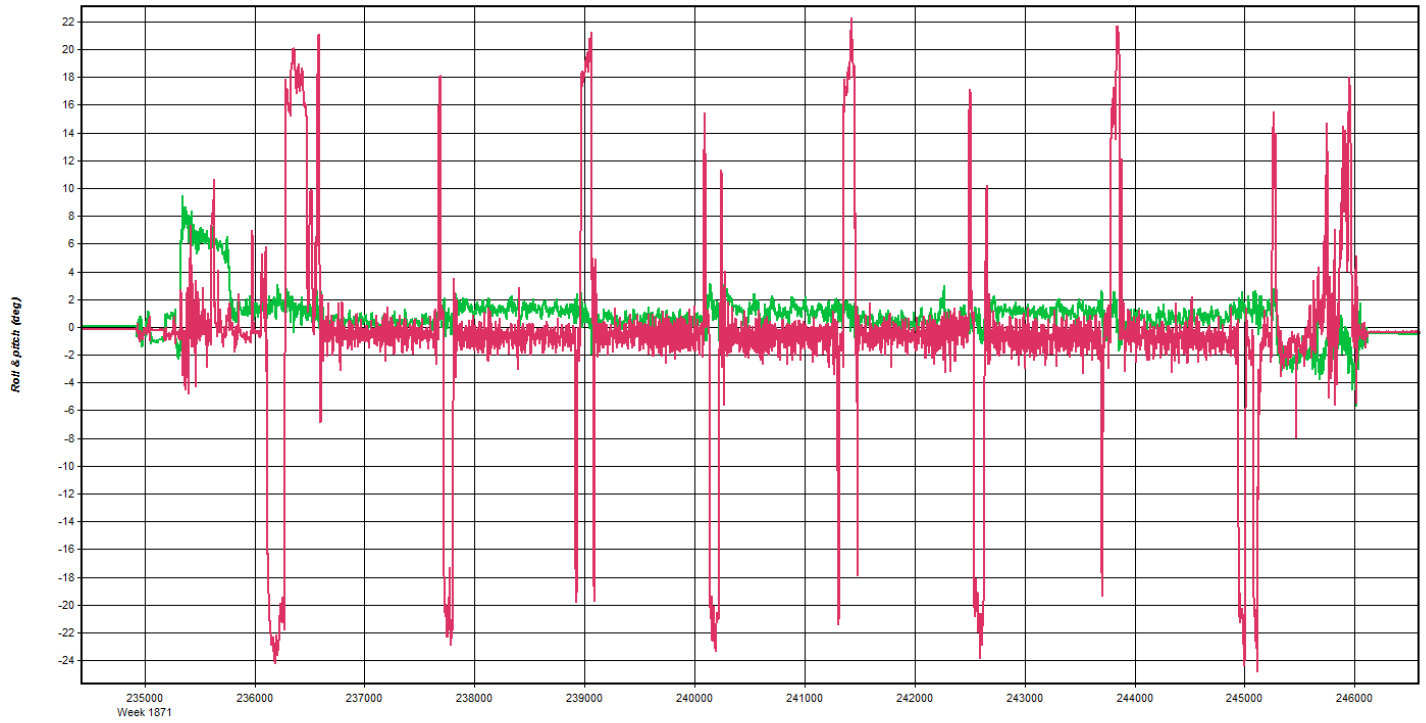
OK Cancel

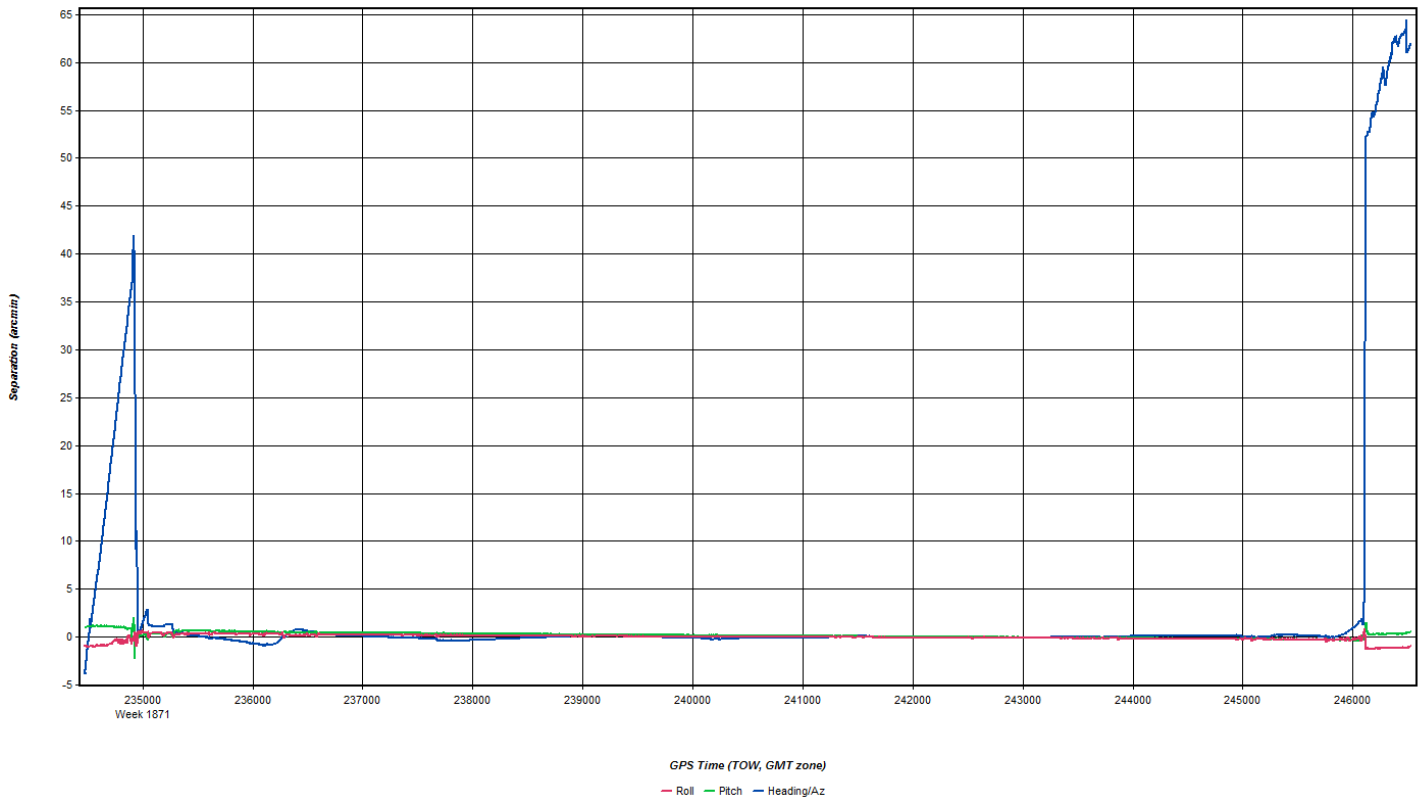
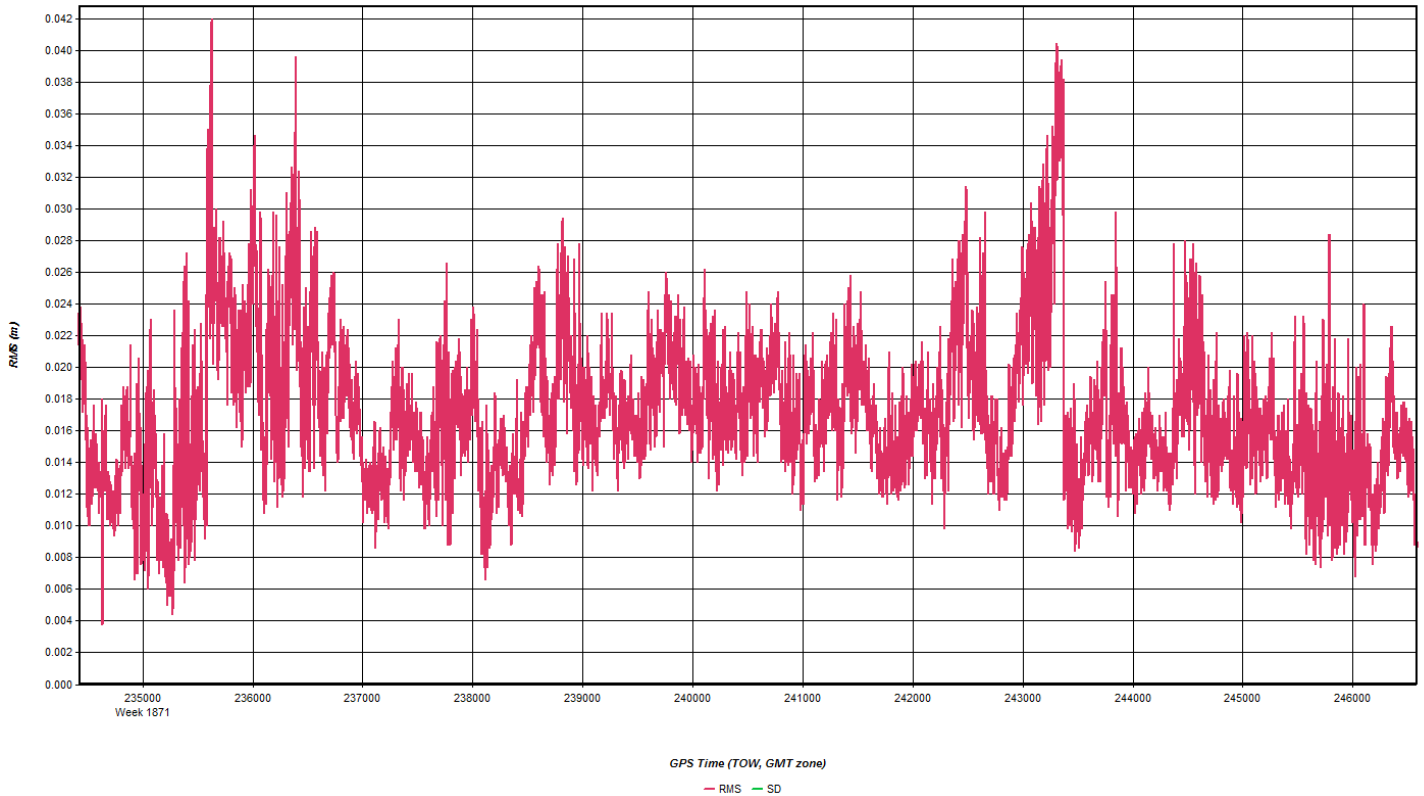
Nov 17, 2015-B (N22GE, SN7178)

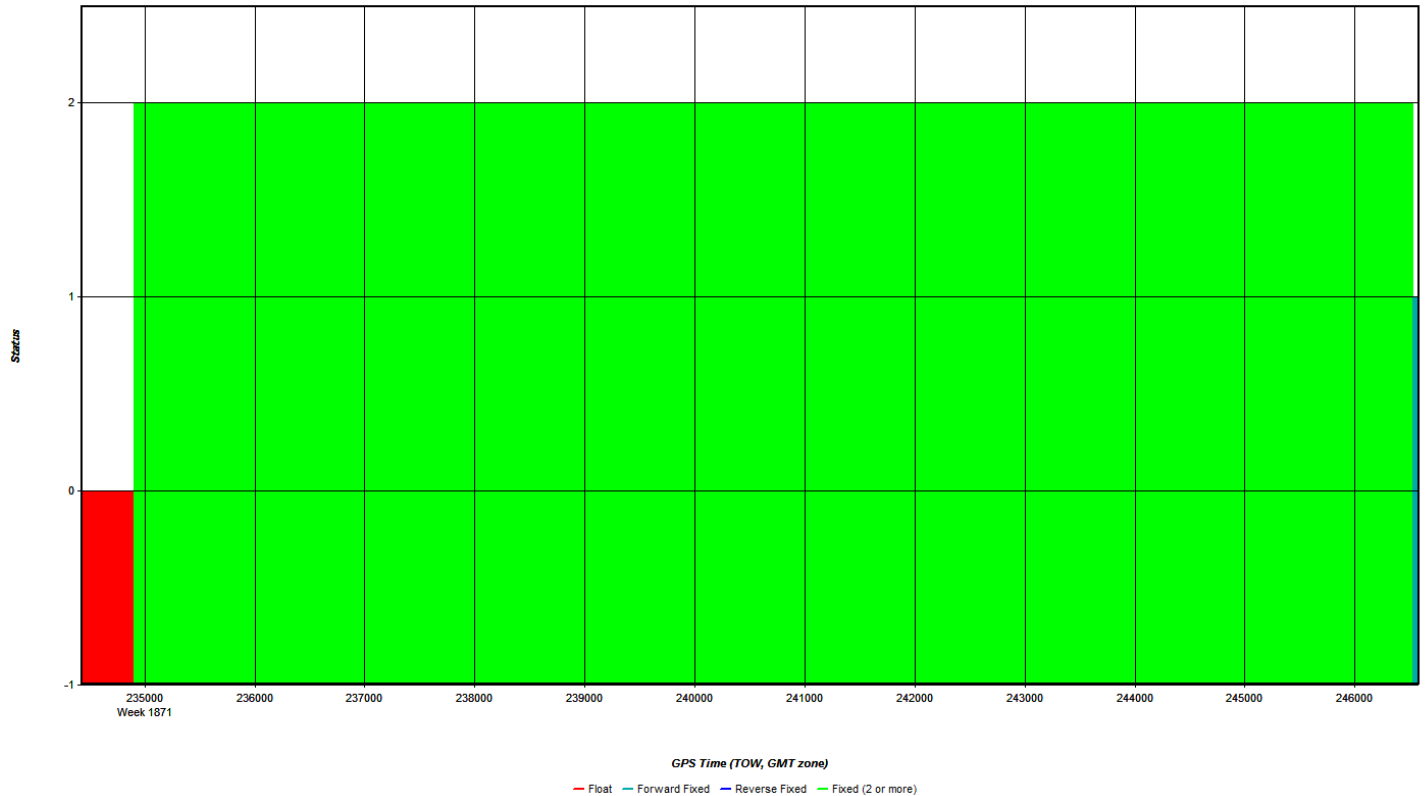












Coordinate/Antenna Settings

Master Remote

Base Station
 1: VTOX Name: VTOX Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\RAW_Data\CK2N\

Coordinates
 Latitude: North 44 00 28.16564 Compute from PPP
 Longitude: West 72 06 51.60957 Enter Grid Values
 Ellipsoidal height: 126.405 m Enter MSL Height
 Datum: NAD83(2011) 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

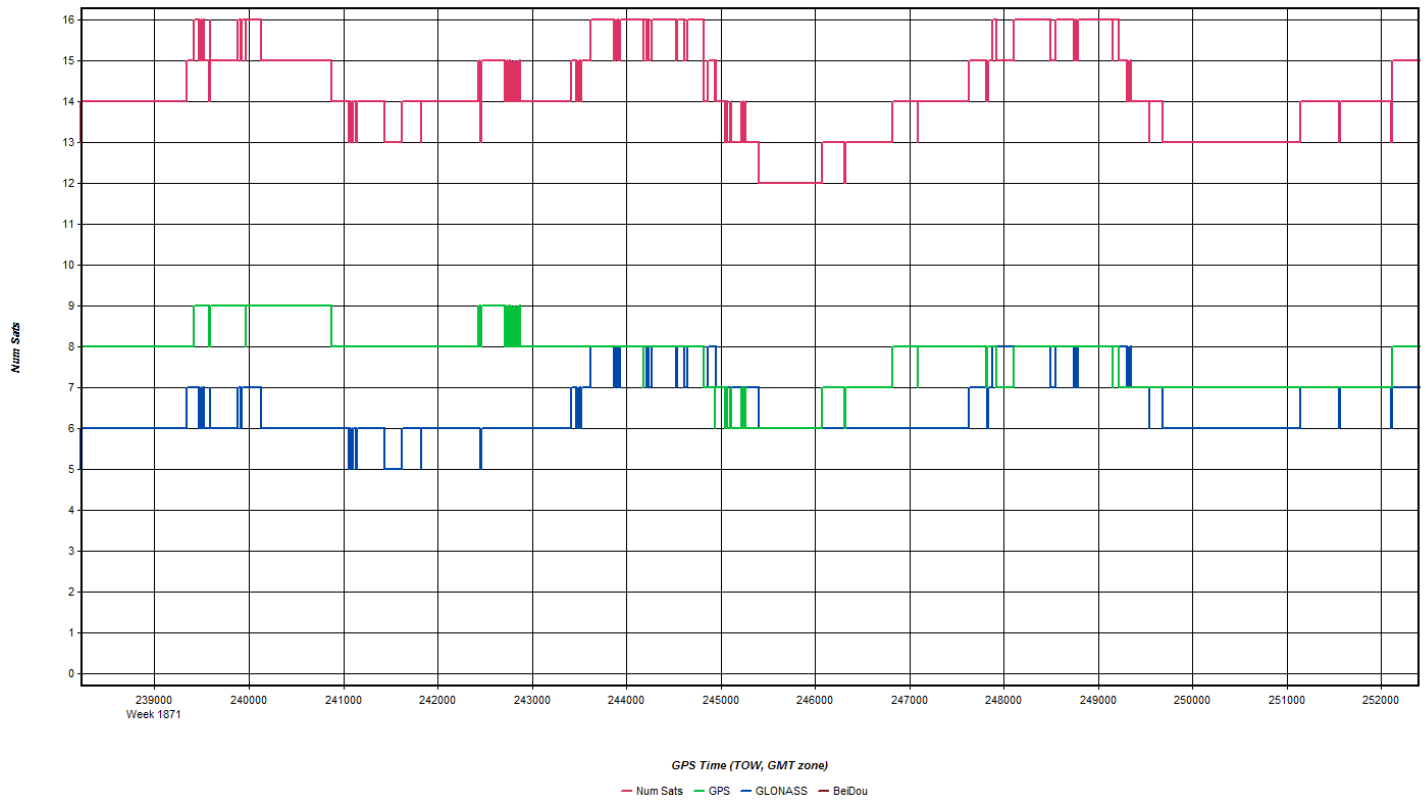
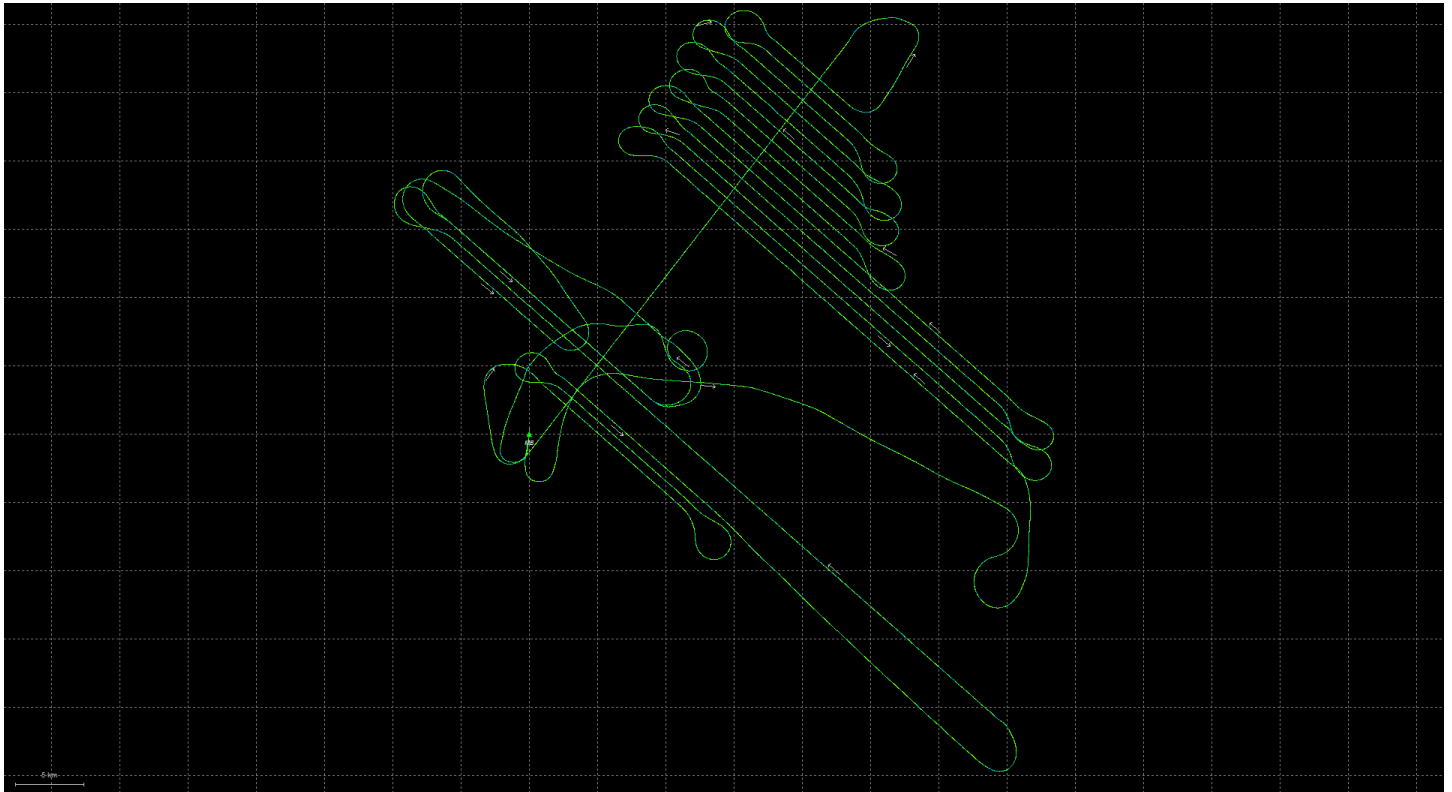
Base Station
 2: VTSP Name: VTSP Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\RAW_Data\CK2N\

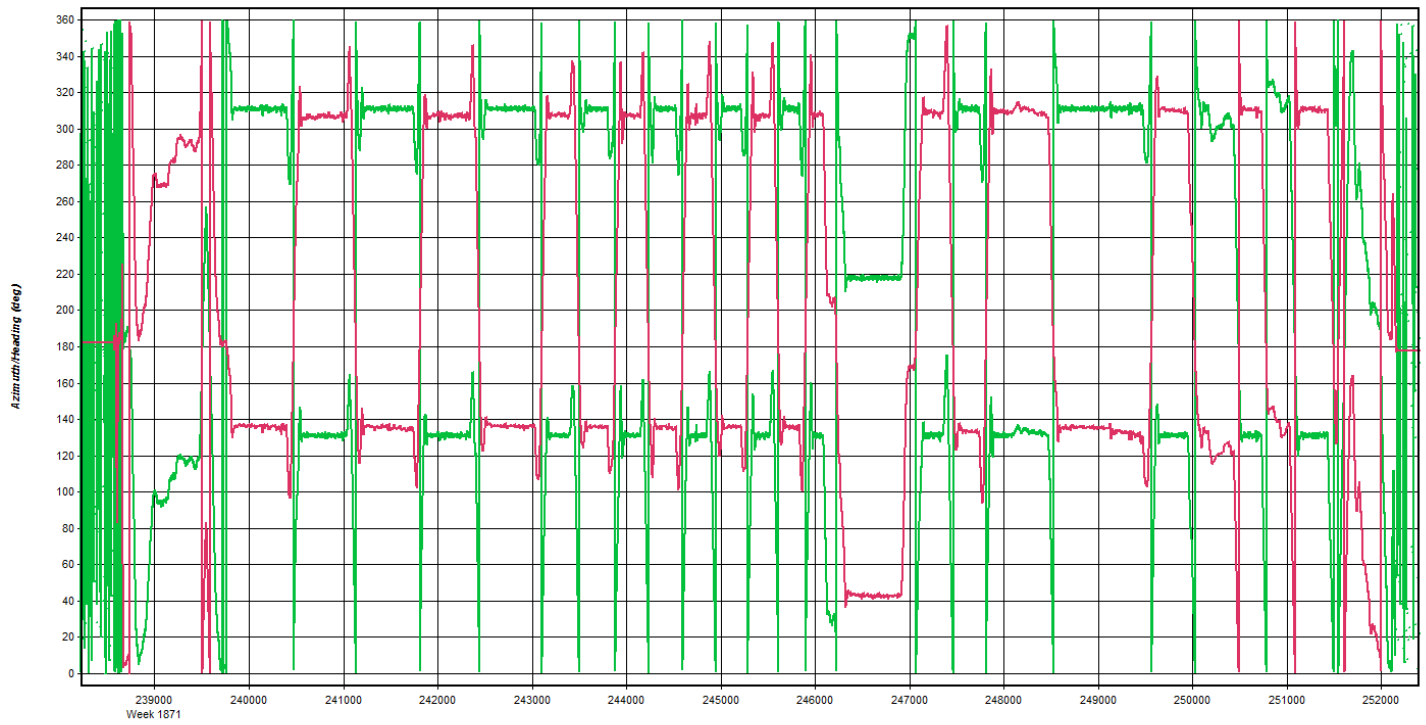
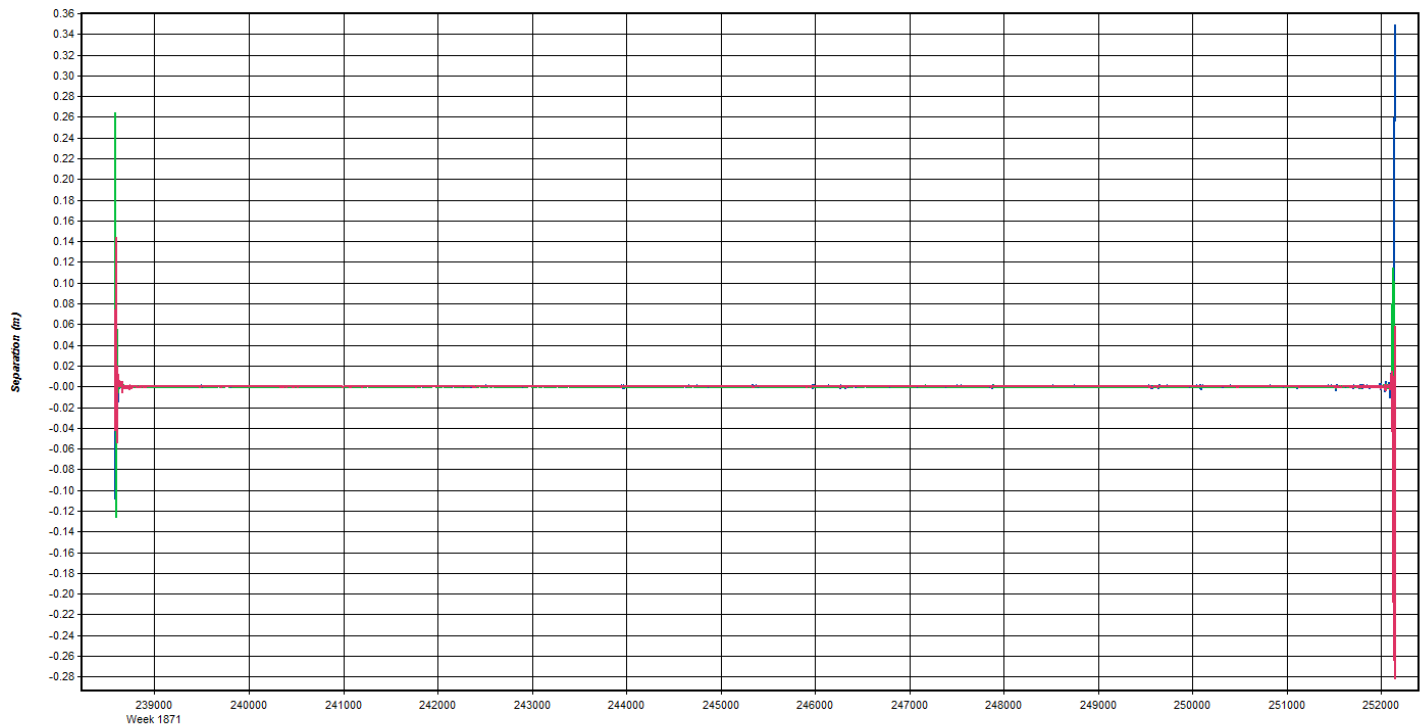
Coordinates
 Latitude: North 43 16 53.24114 Compute from PPP
 Longitude: West 72 28 39.23841 Enter Grid Values
 Ellipsoidal height: 156.441 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

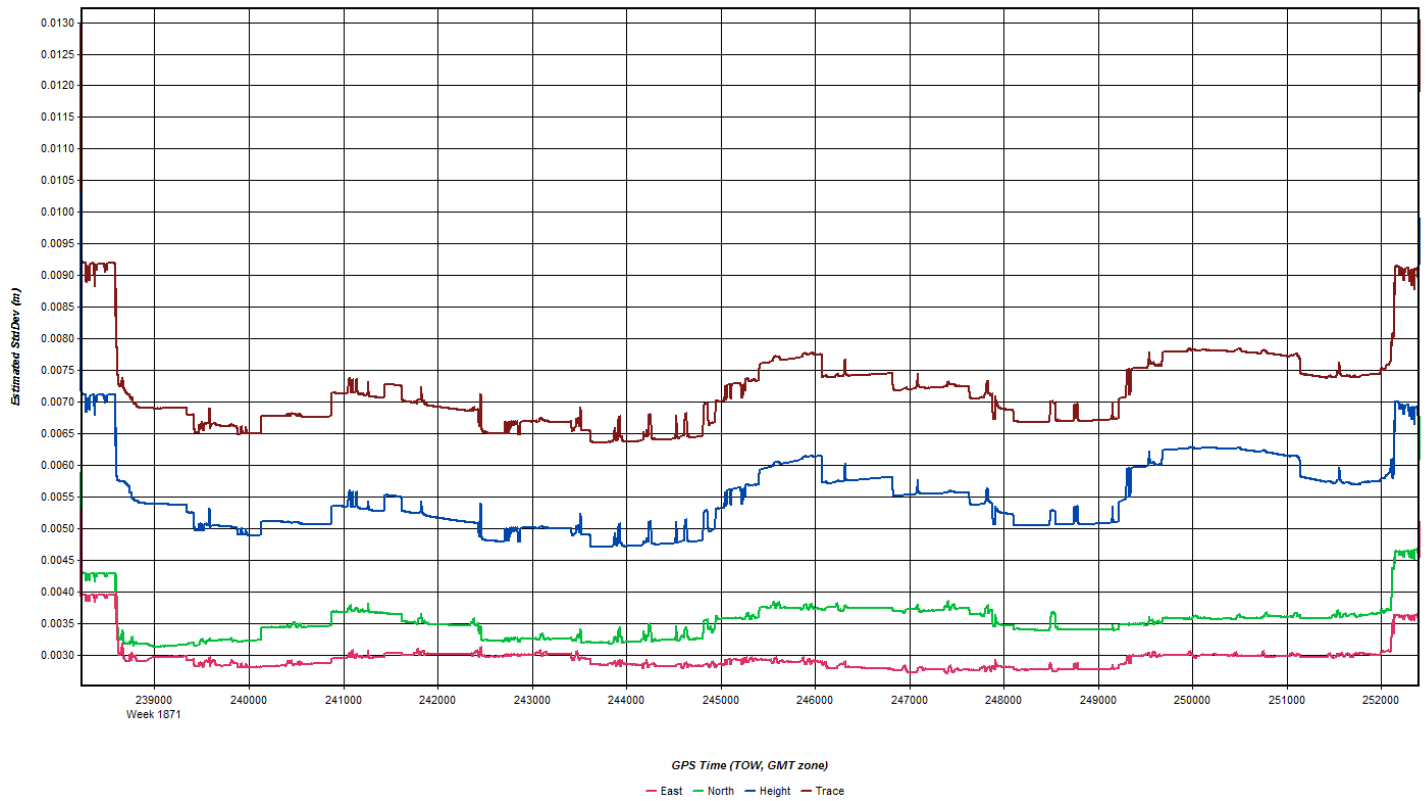
Antenna Height
 From station file: TRM55971.00, NONE View STA File
 Antenna profile: TRM55971.00 Info
 Measured height: 0.000 m
 ARP to L1 offset: 0.067 m
 Applied height: 0.067 m
 Measured to:
 ARP
 L1 Phase Centre
 Compute From Slant

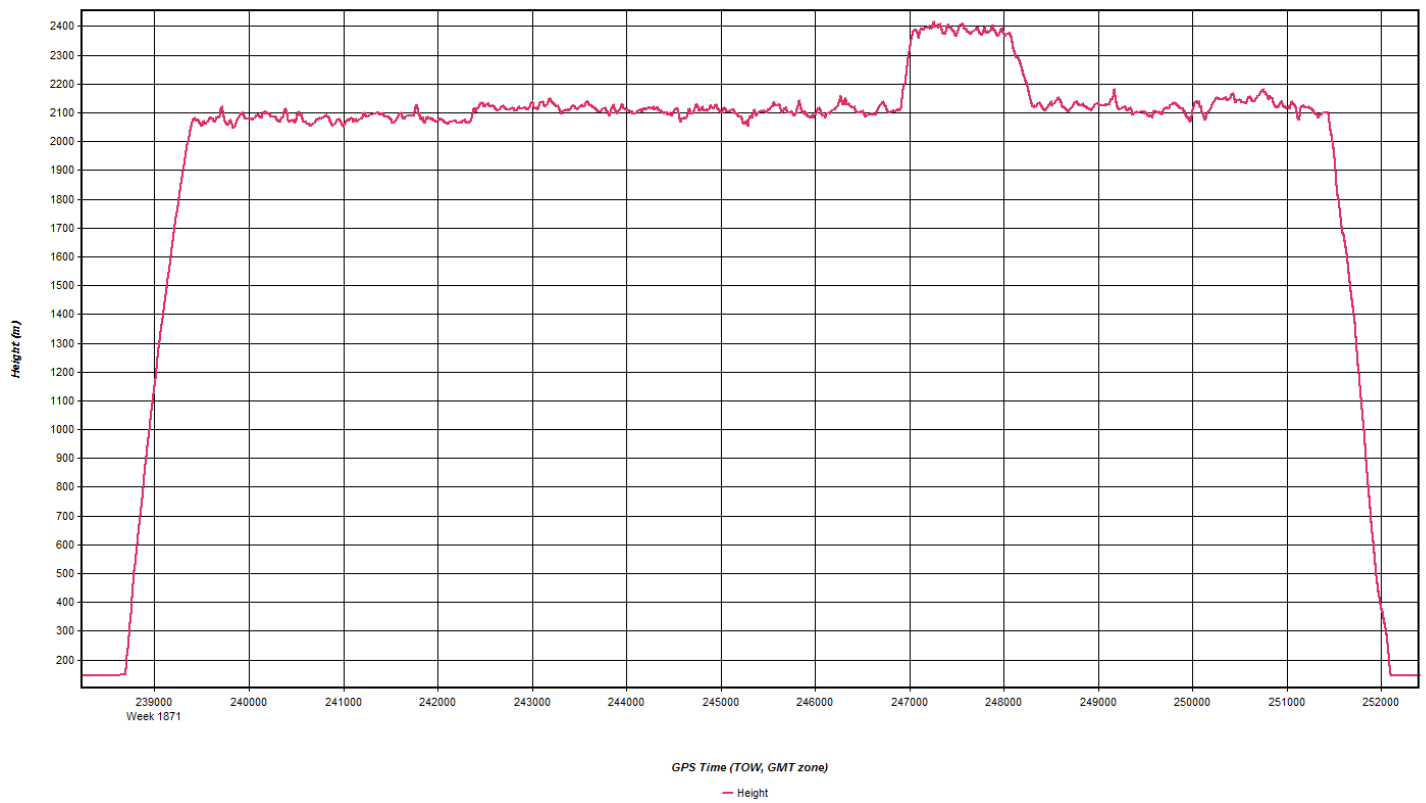
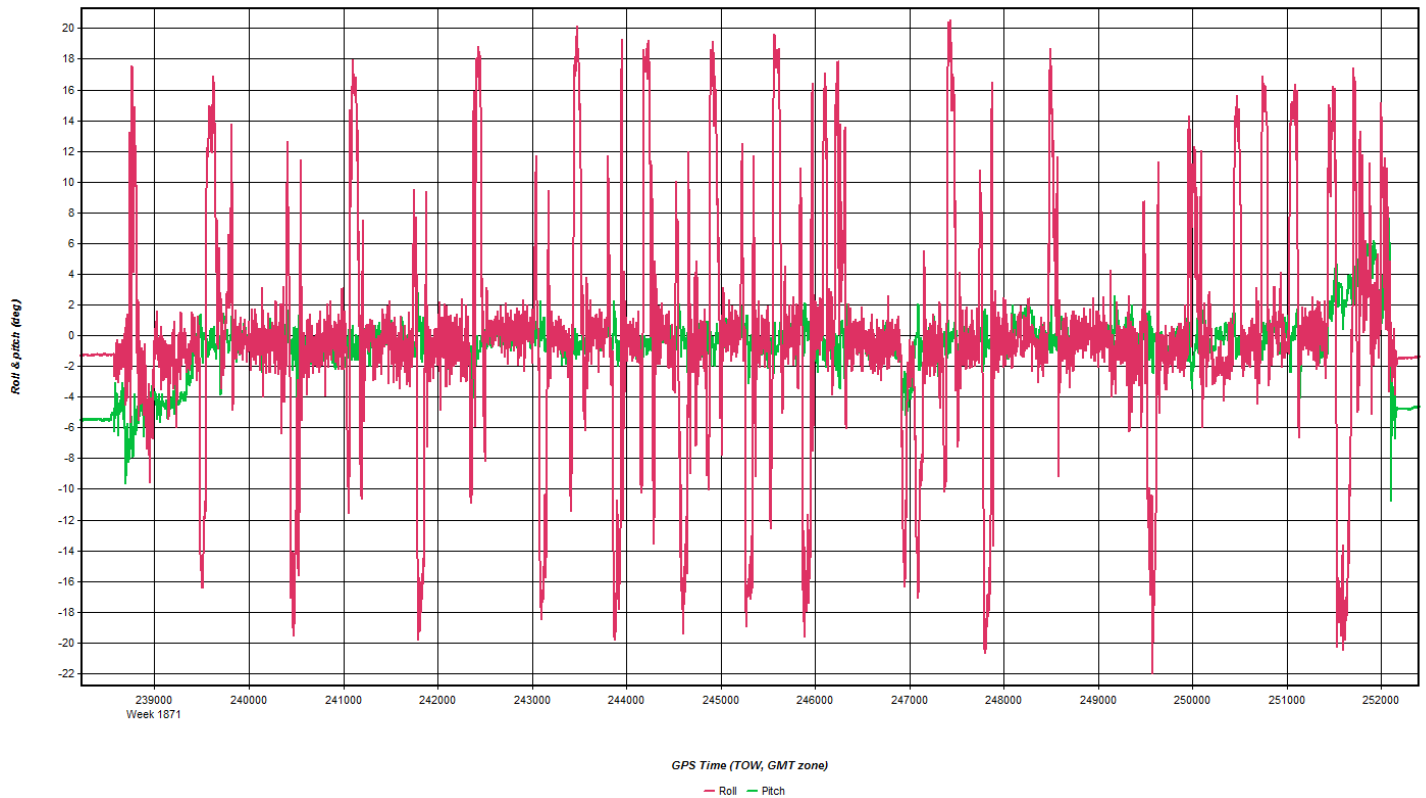
OK Cancel

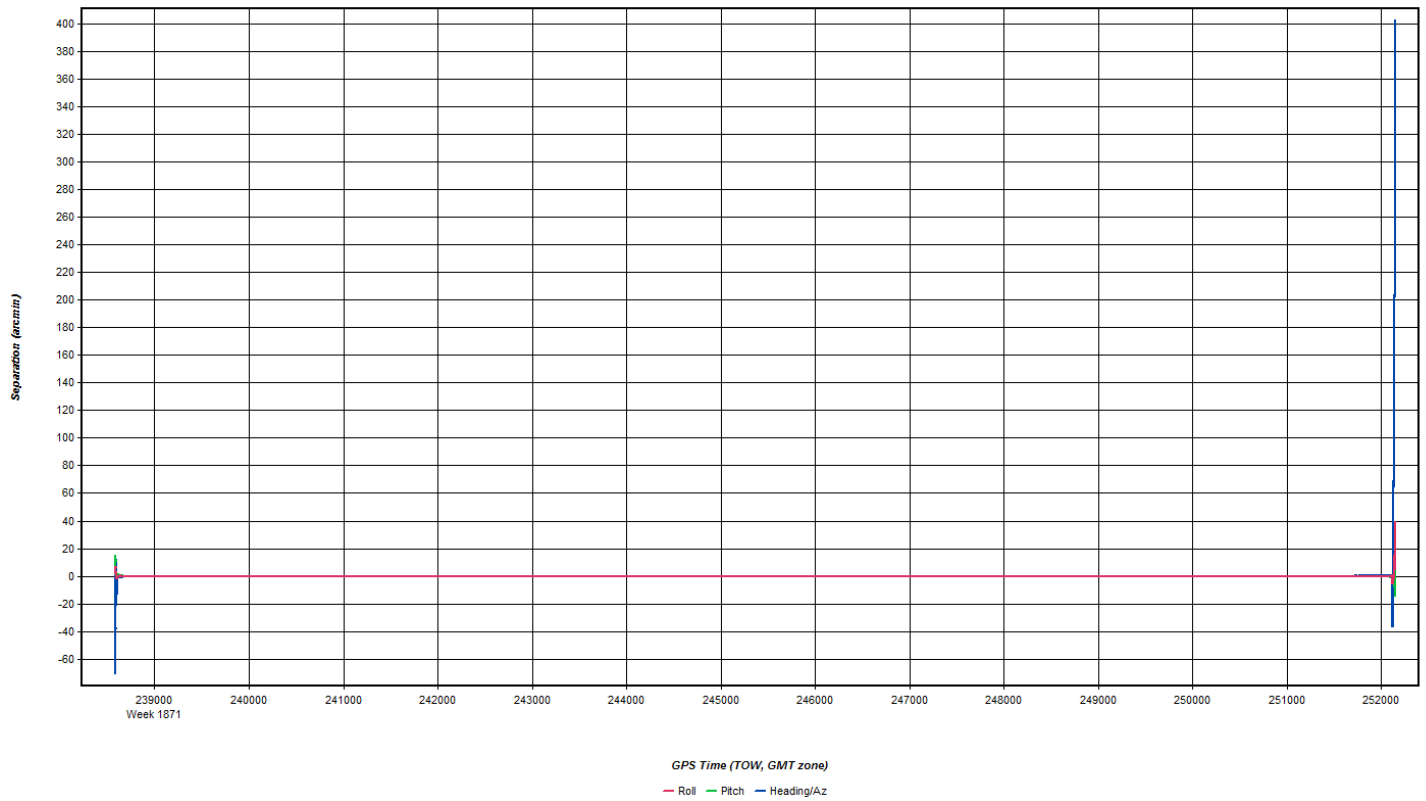
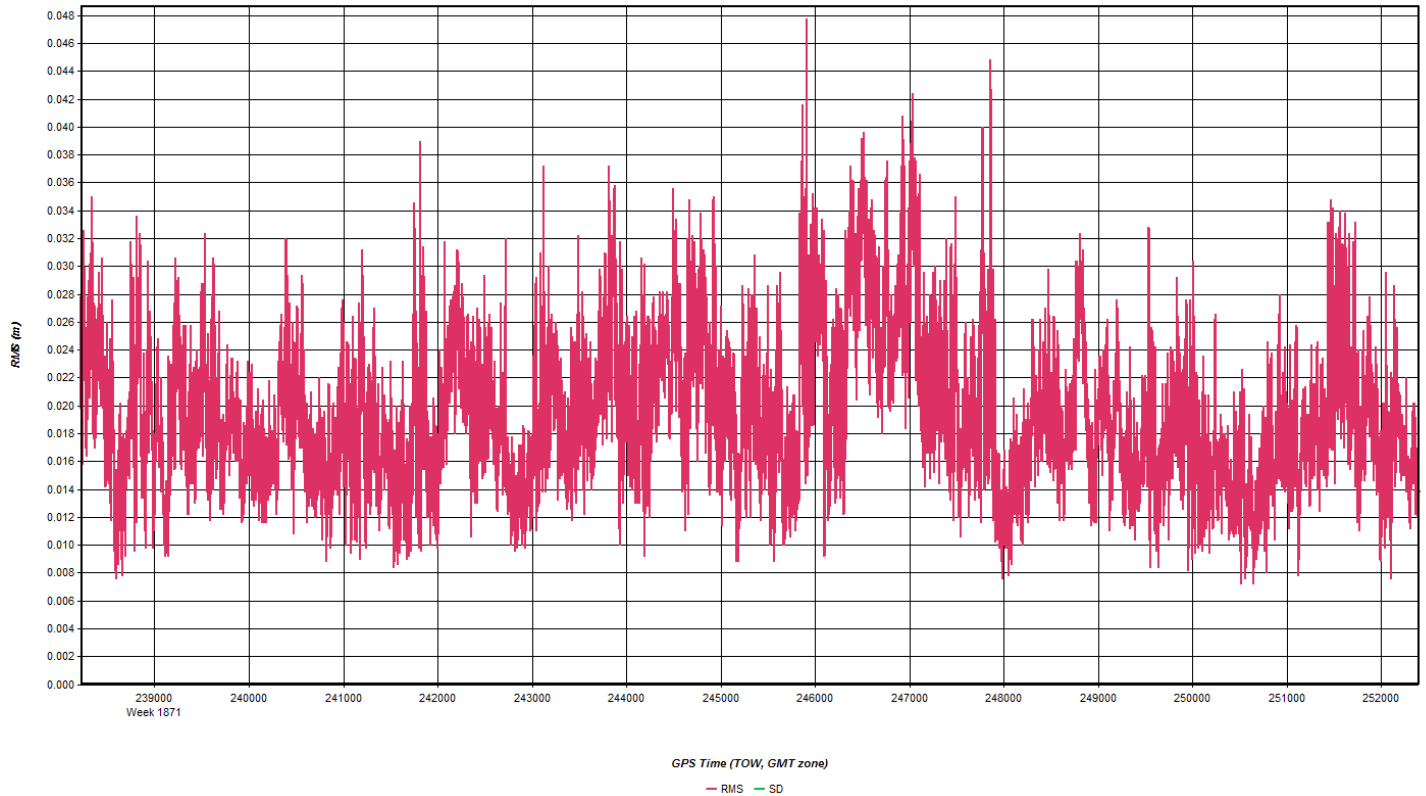
Nov 17, 2015-B (N799AC, SN7169)

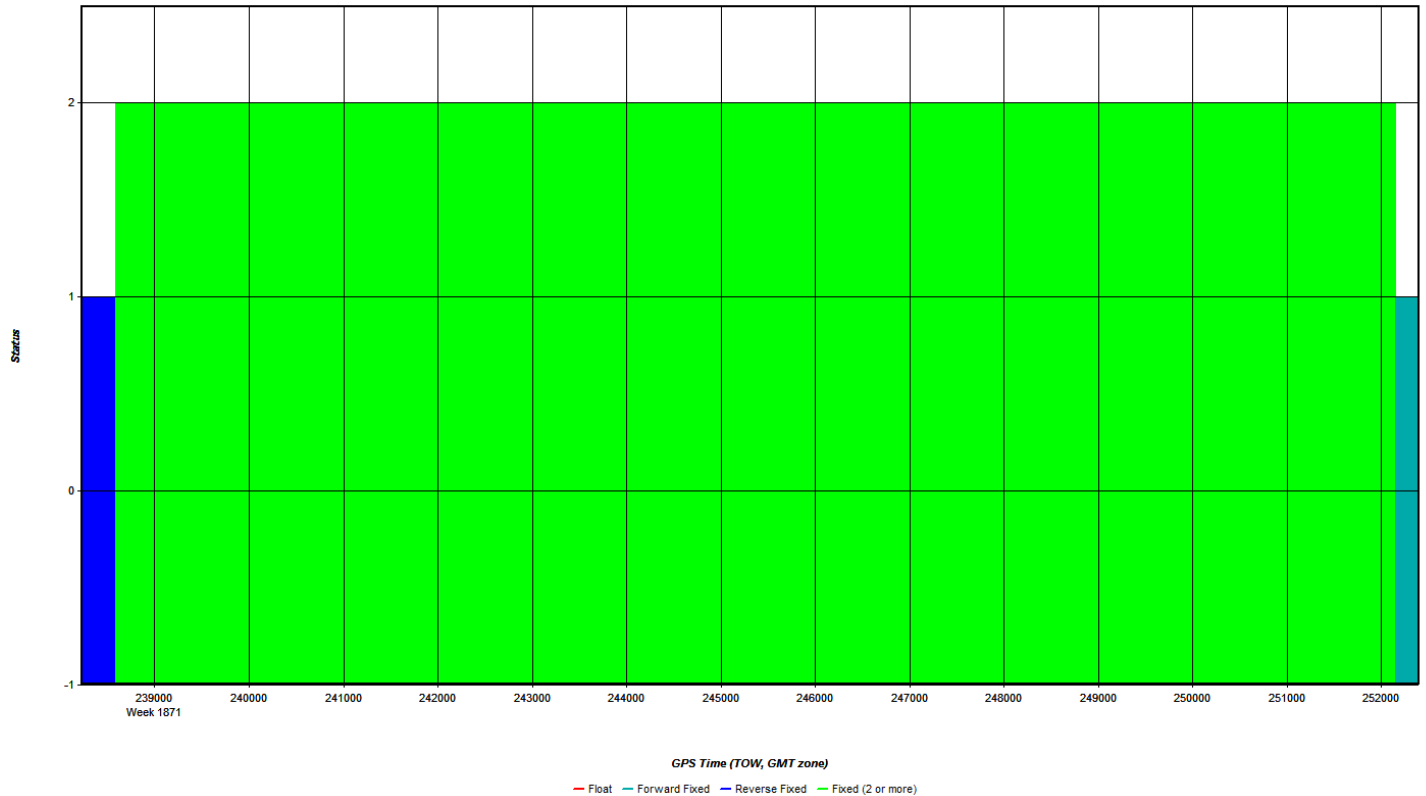












Coordinate/Antenna Settings

Master Remote

Base Station

1: MB Name: MB Disabled

File: S:\LIDAR\26818_CT_River\26818_CT_River\RAW_Data\R077\

Coordinates

Latitude: North 43 46 04.16098 Compute from PPP

Longitude: West 71 23 12.42431 Enter Grid Values

Ellipsoidal height: 147.018 m Enter MSL Height

Datum: NAD83(2011) Datum Options

Select From Favorites Add To Favorites Use Average Position

Antenna Height

From station file: TRMR10, NONE View STA File

Antenna profile: TRMR10 Info

Measured height: 2.050 m

ARP to L1 offset: 0.128 m

Applied height: 2.178 m

Measured to

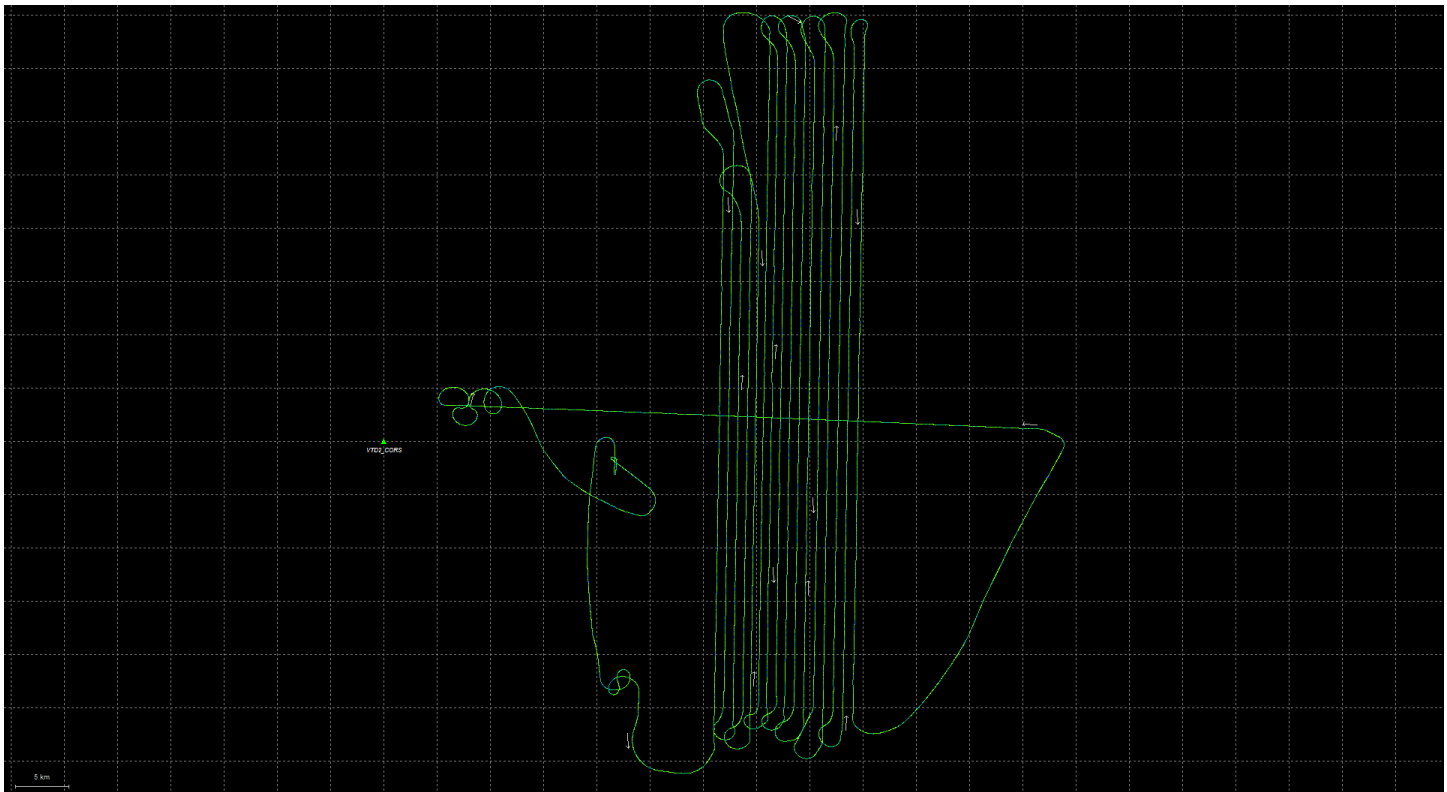
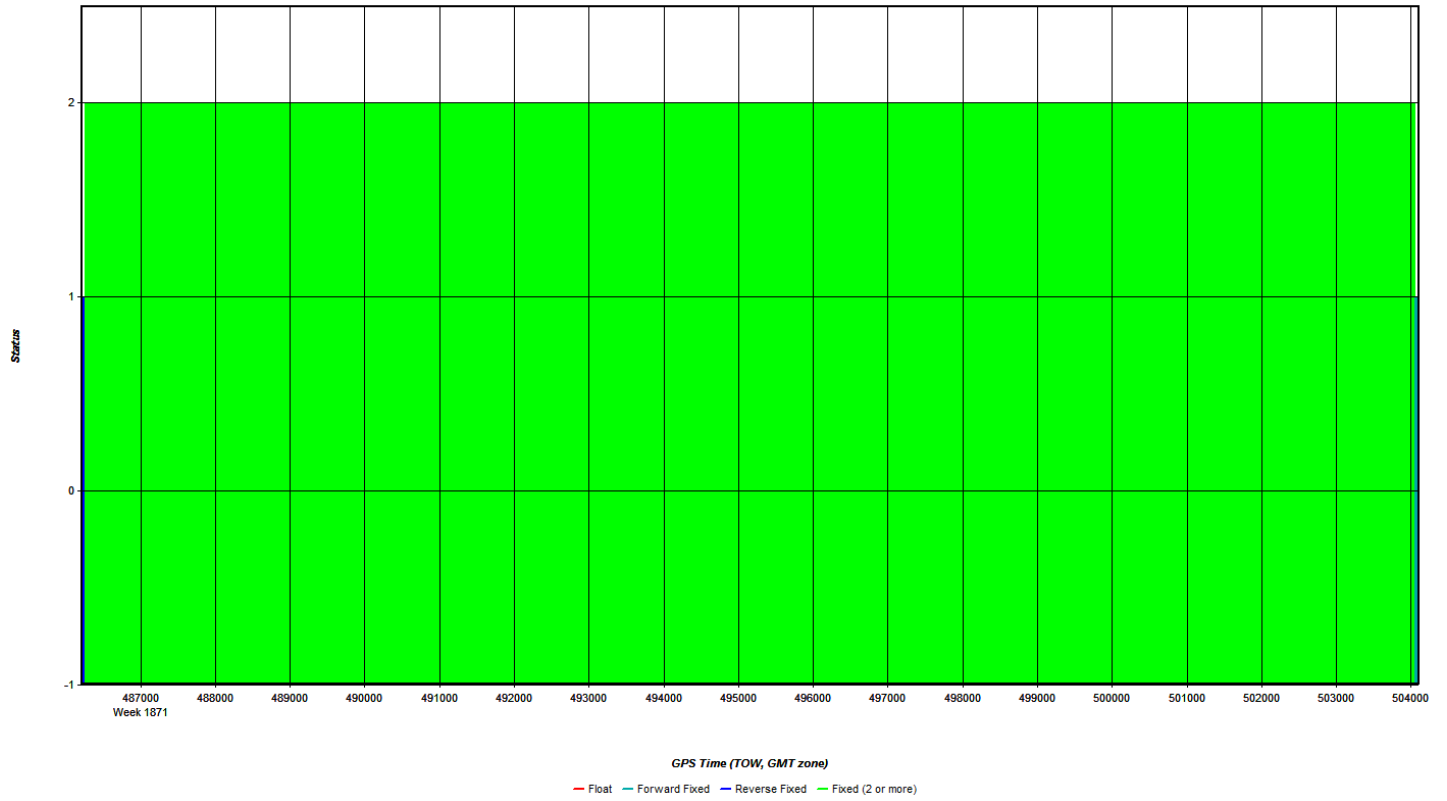
ARP

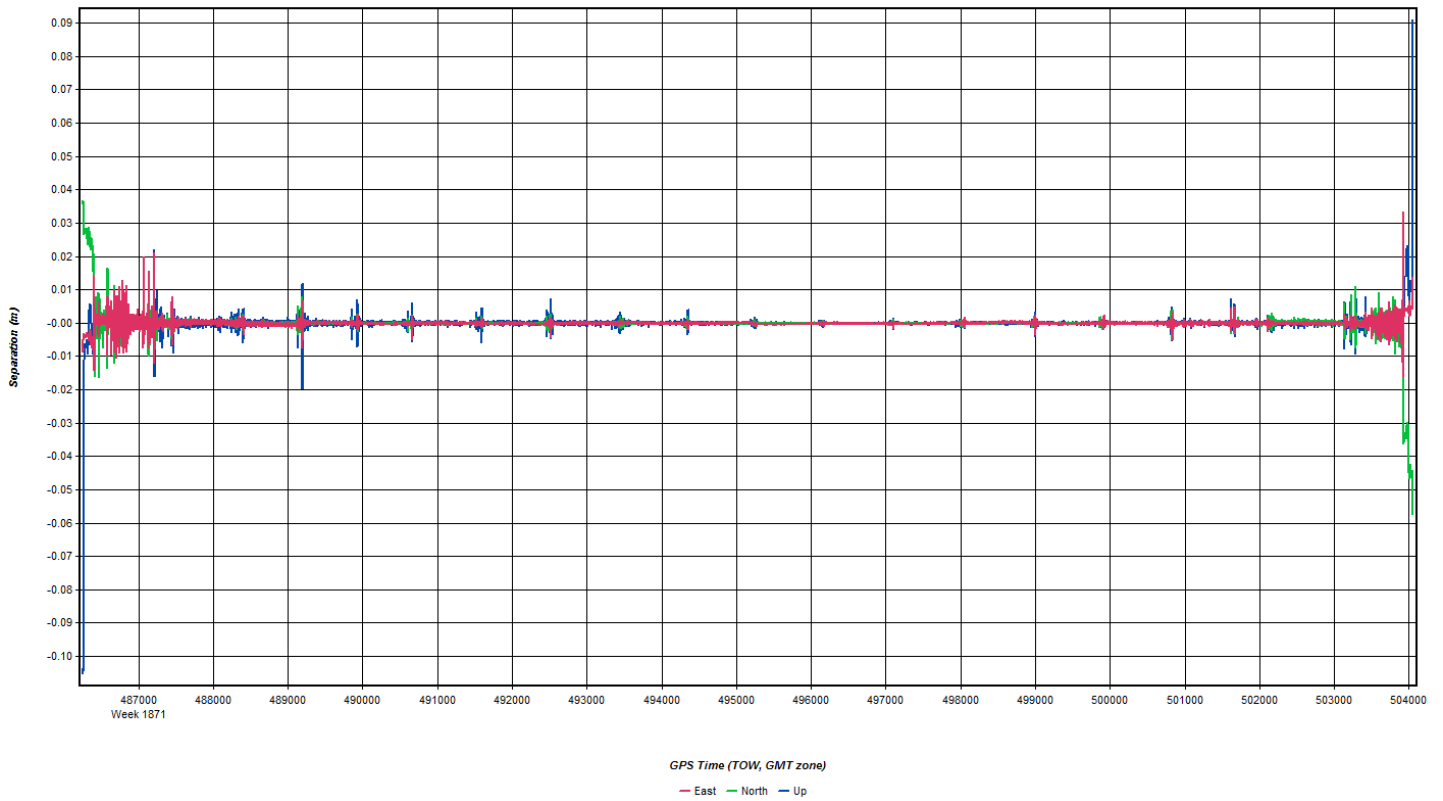
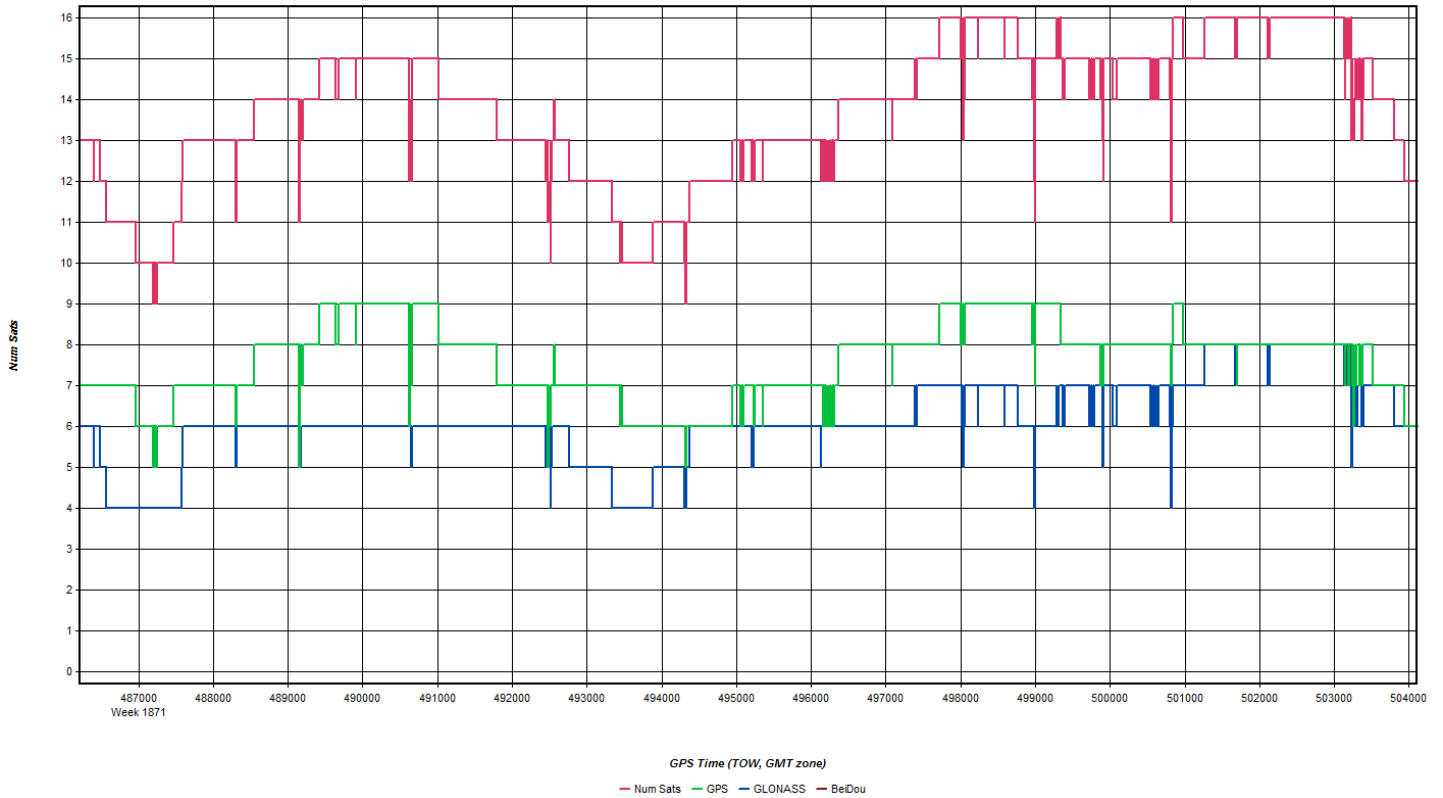
L1 Phase Centre

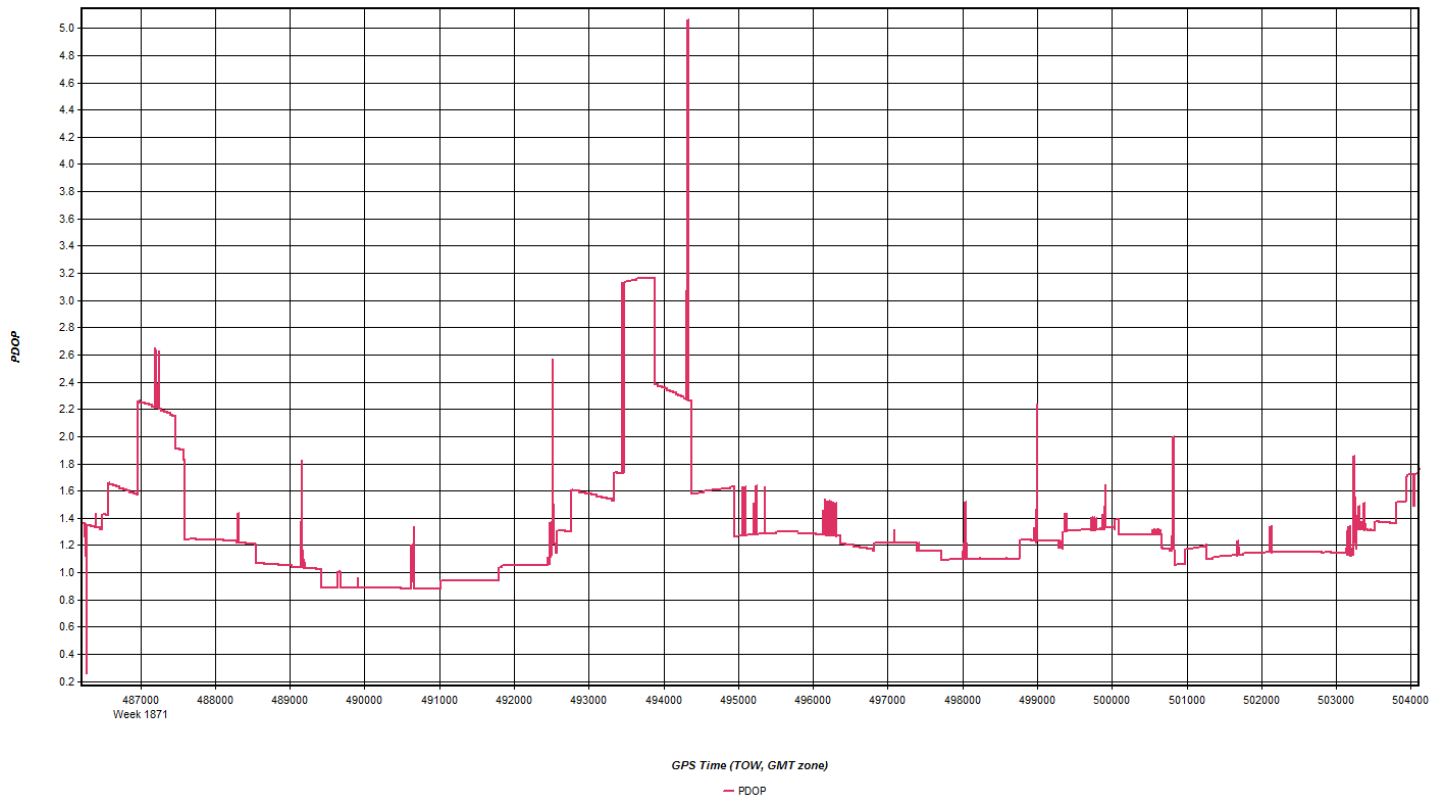
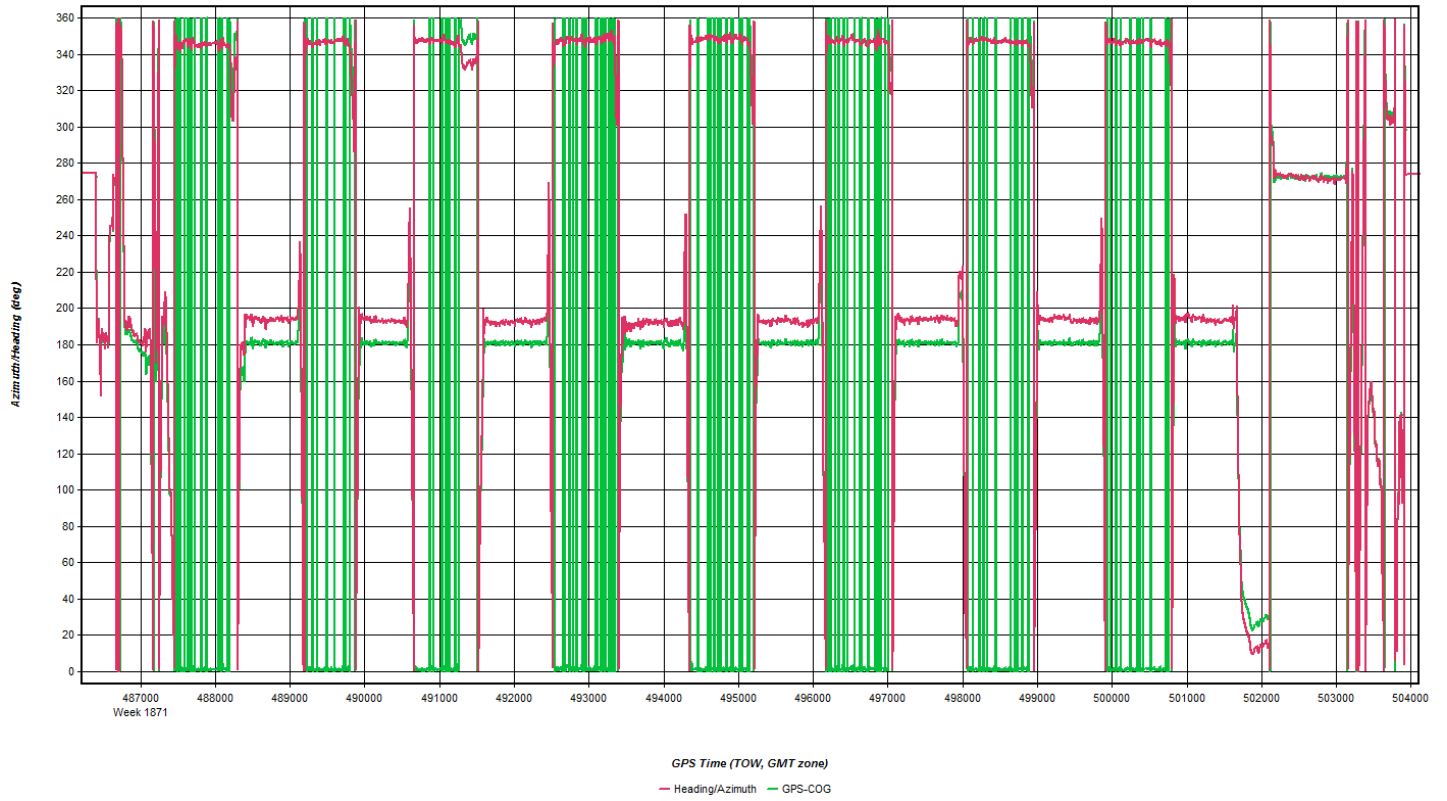
Compute From Slant

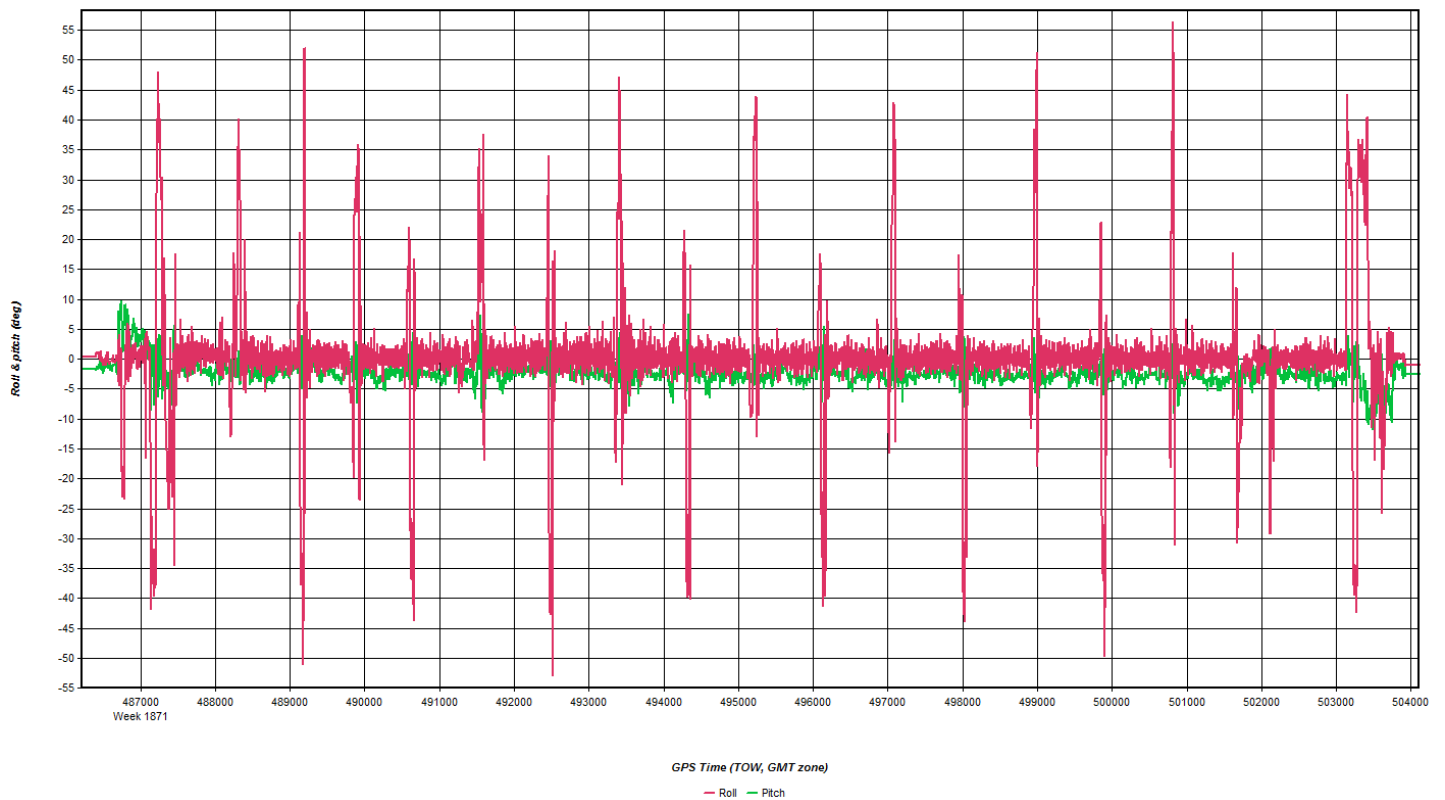
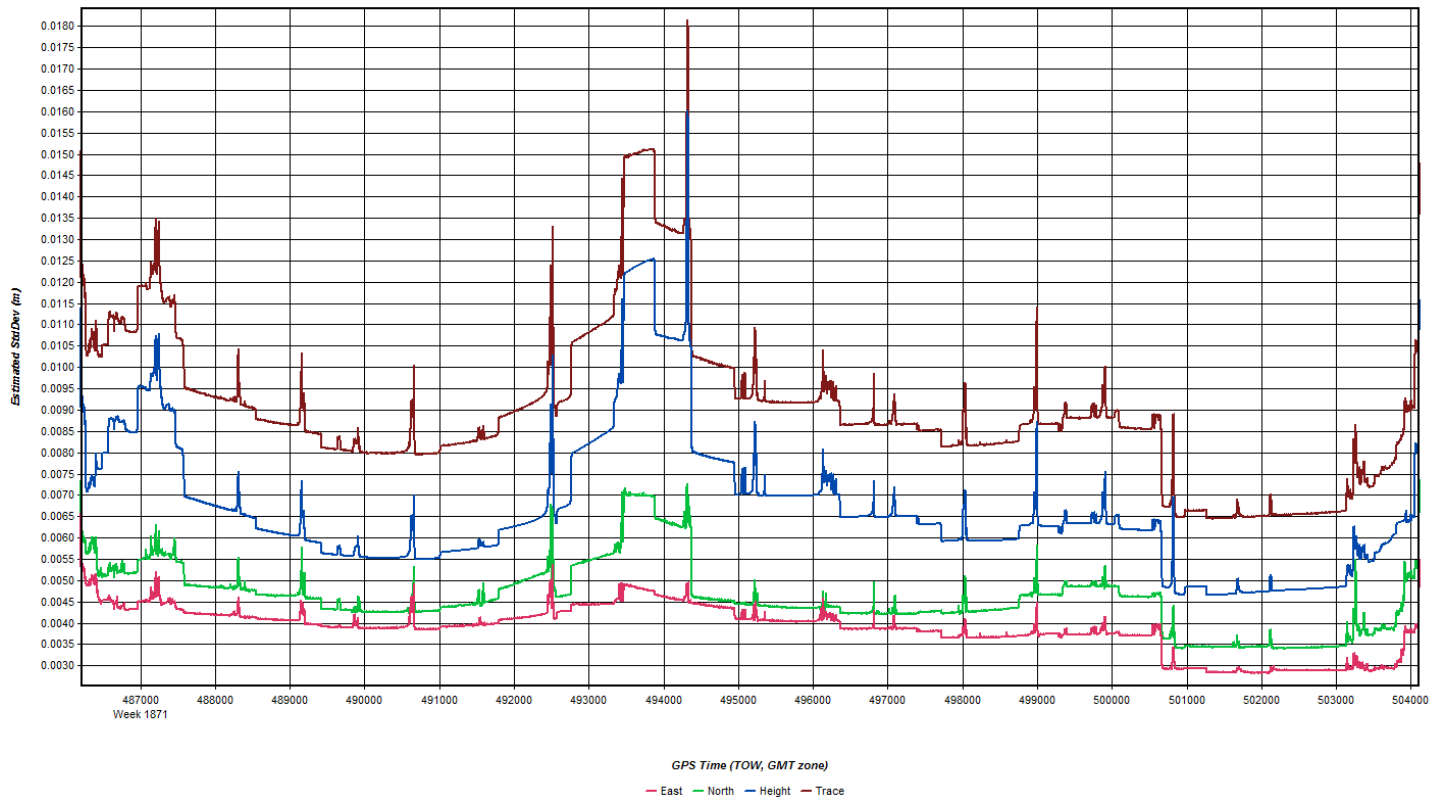
OK Cancel

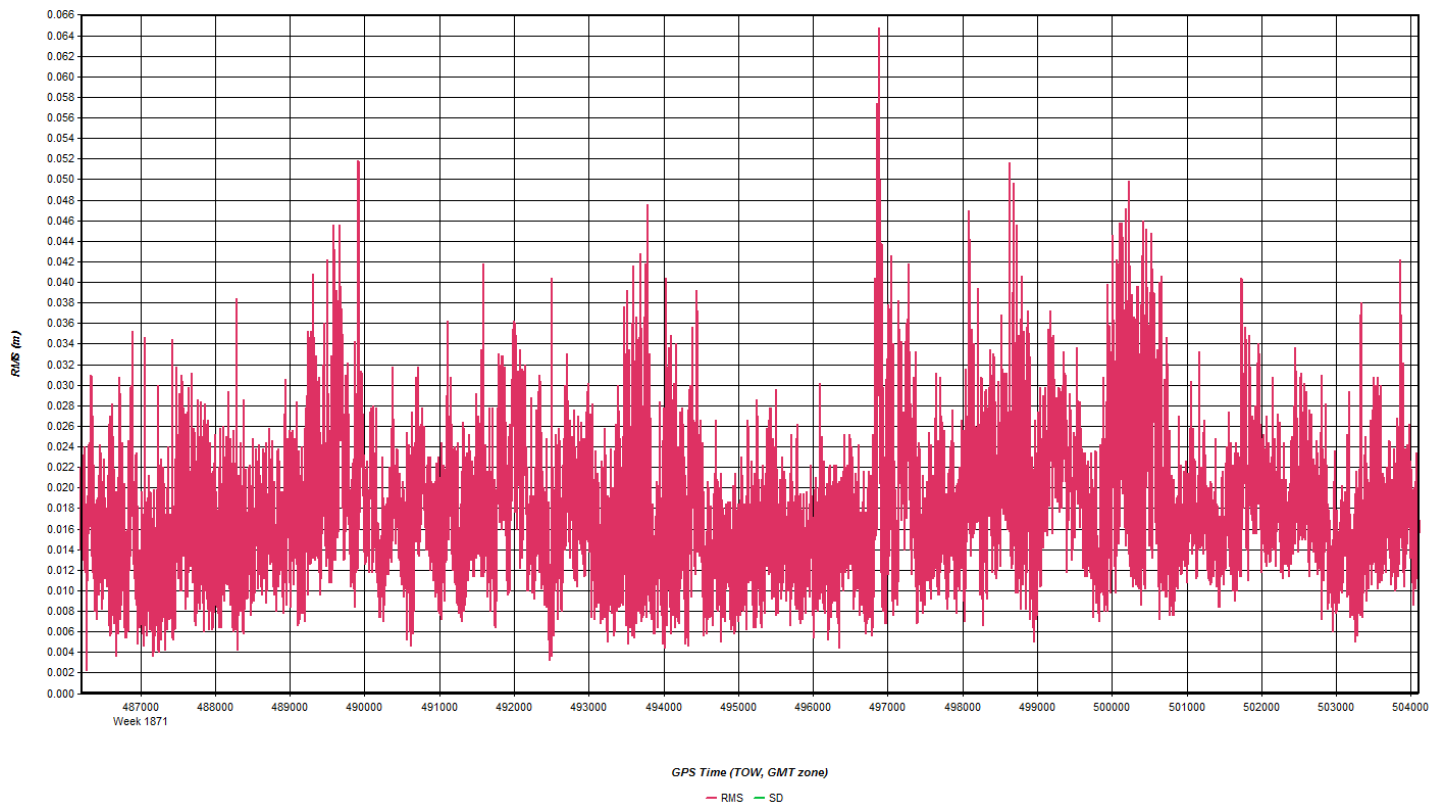
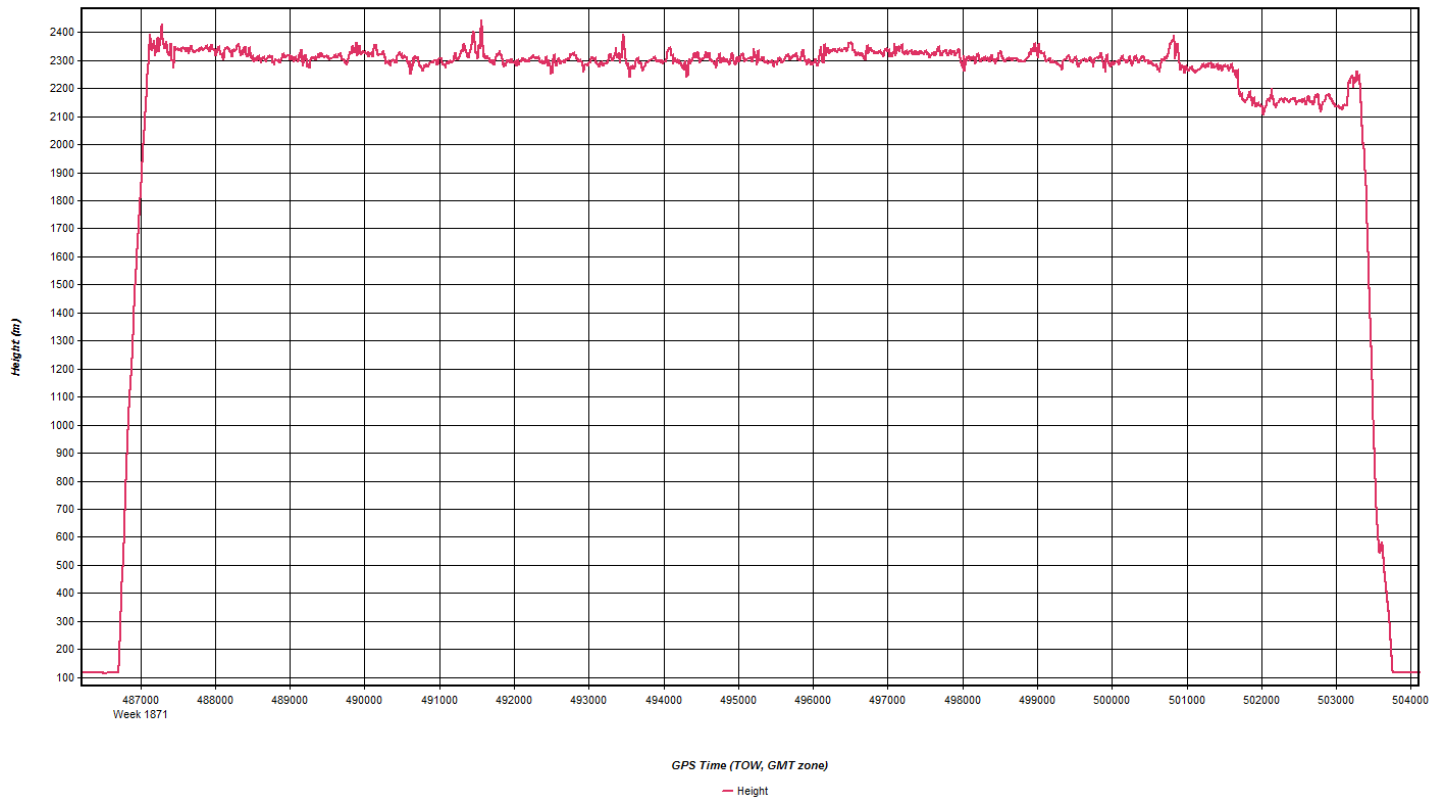
Nov 20, 2015-A (N1107Q, SN7108)

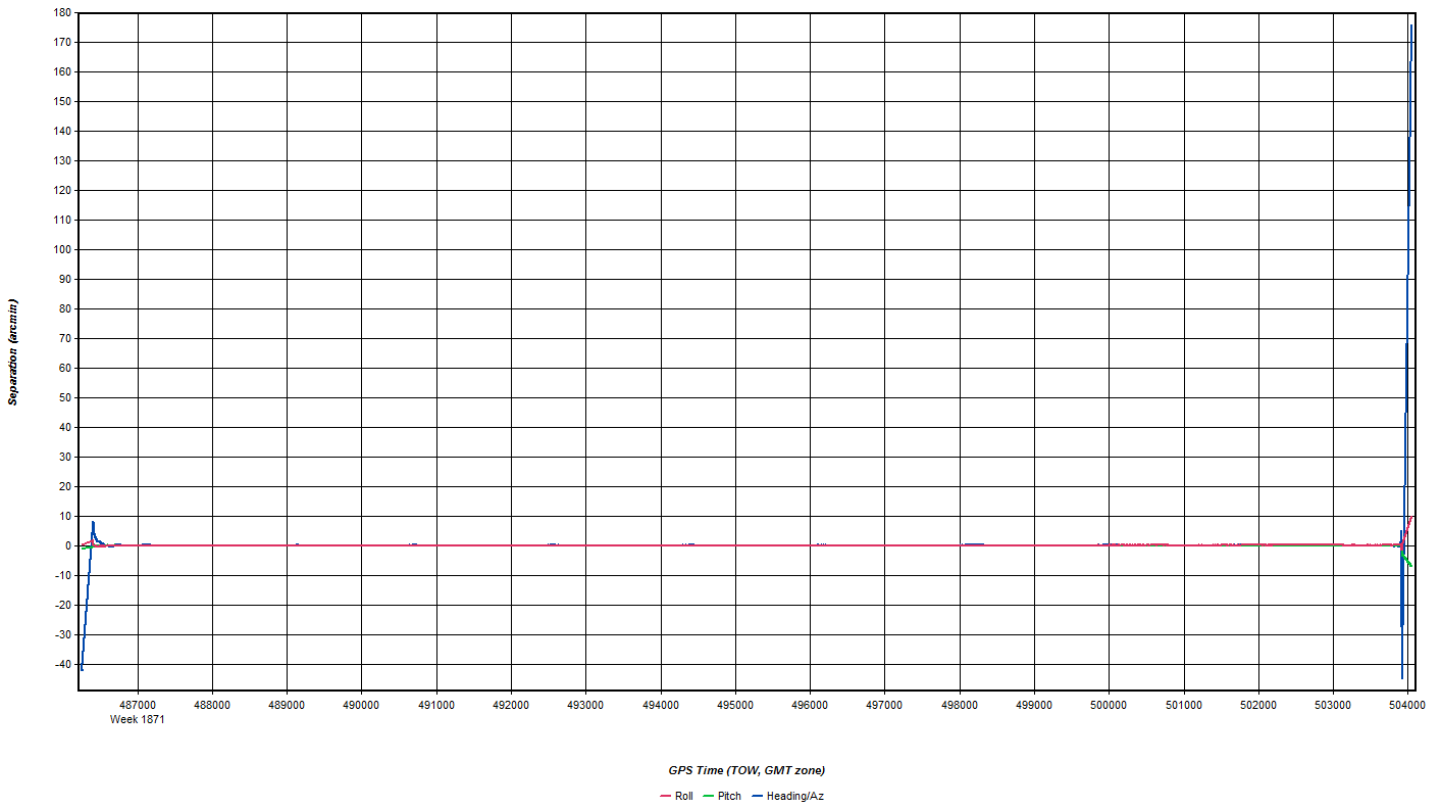












Coordinate/Antenna Settings

Master Remote

Base Station
 1: VTD2_CORS Name: VTD2_CORS Disabled
 File: F:\Proc\26818_CT_River\F9R8\ConnecticutRiver_Keene_NH\R:

Coordinates
 Latitude: North 42 55 06.10798 Compute from PPP
 Longitude: West 72 32 06.44140 Enter Grid Values
 Ellipsoidal height: 98.040 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

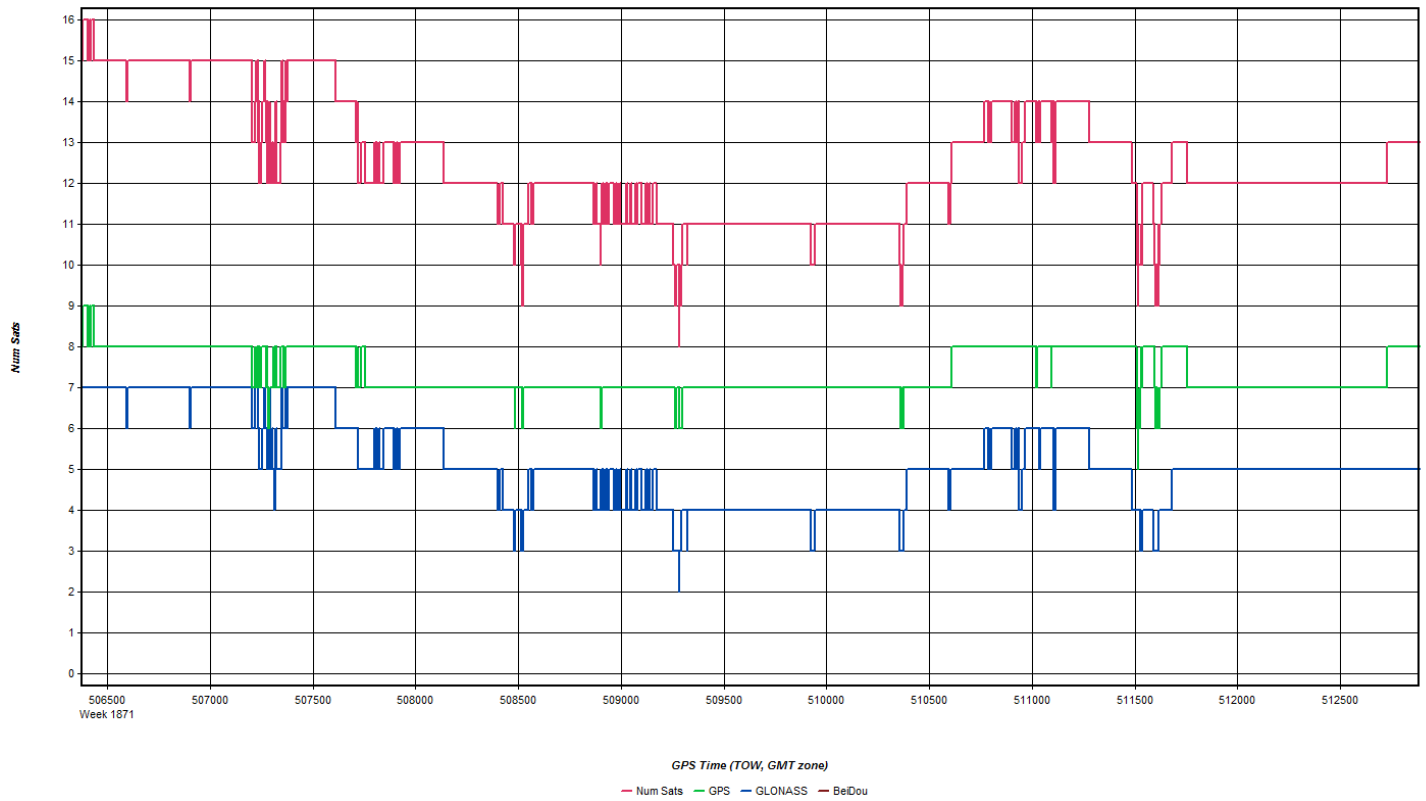
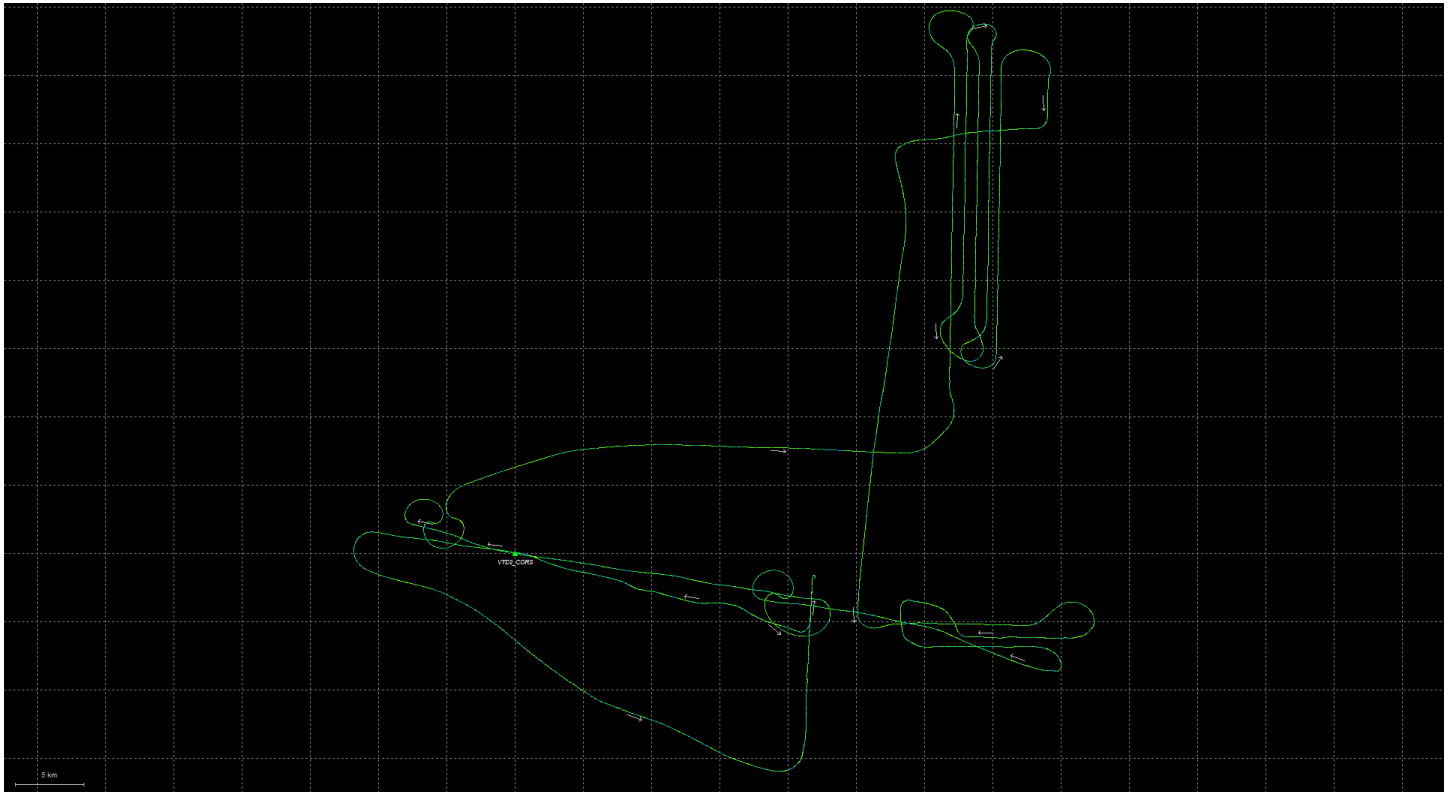
Antenna Height
 From station file: TRM55971.00, NONE View STA File
 Antenna profile: TRM55971.00 Info

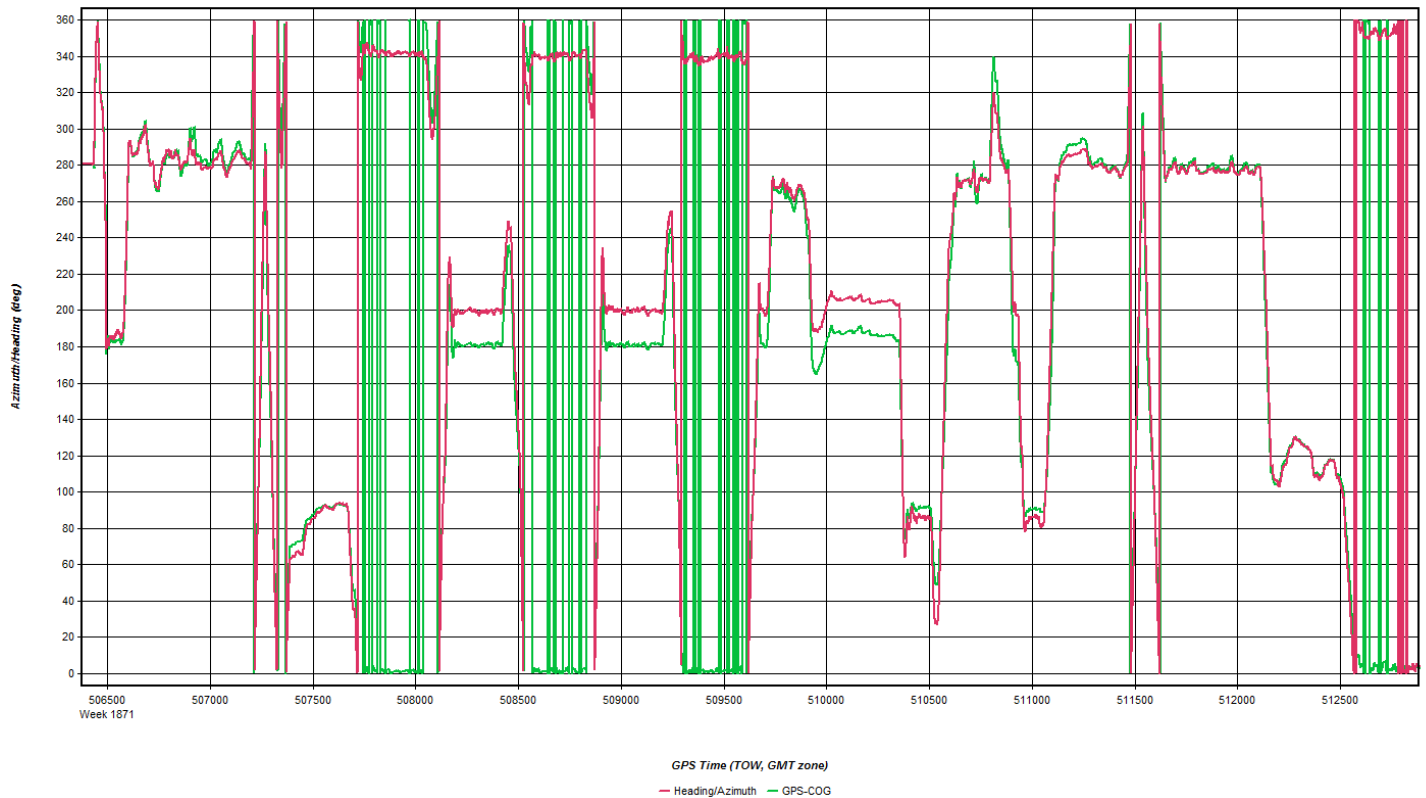
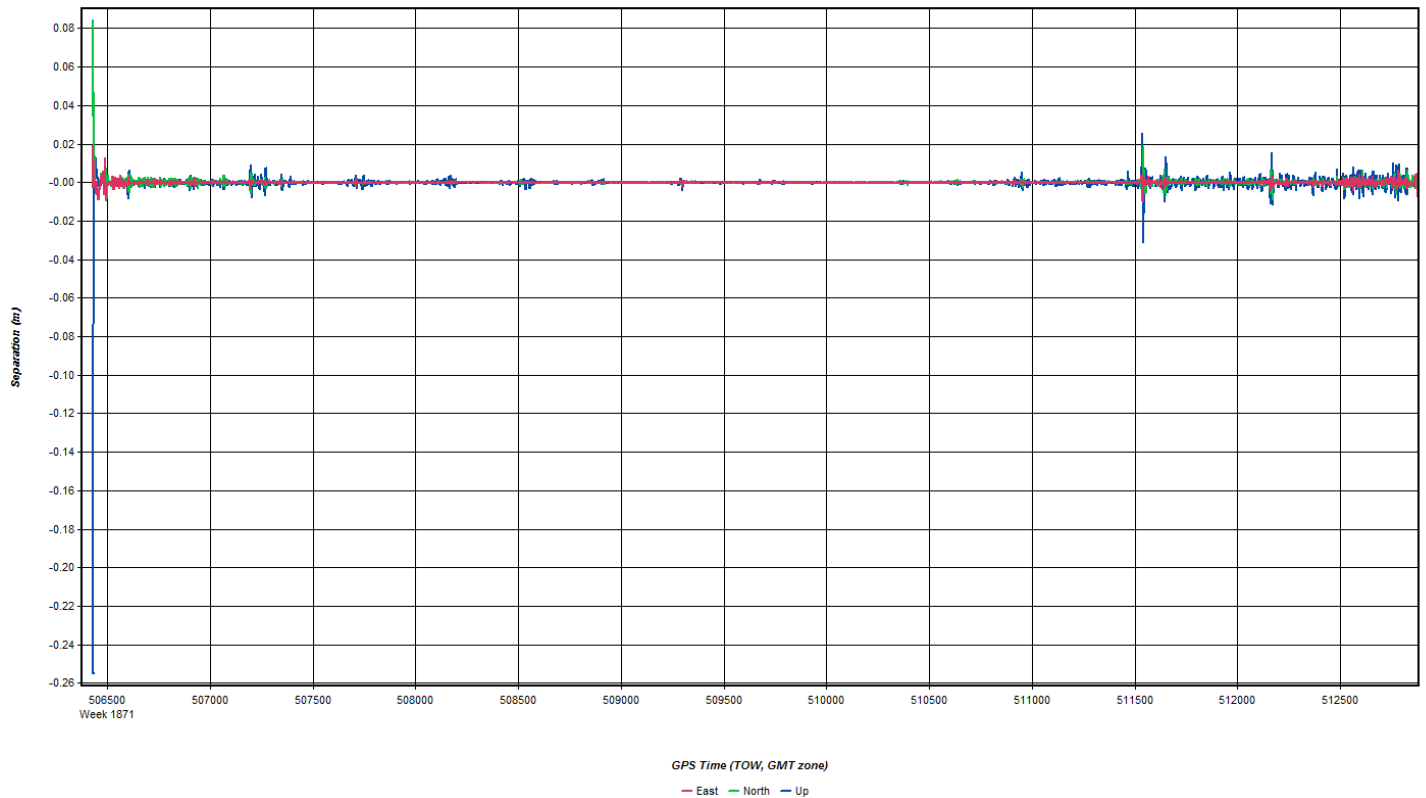
Measured height: 0.000 m
 ARP to L1 offset: 0.067 m
 Applied height: 0.000 m

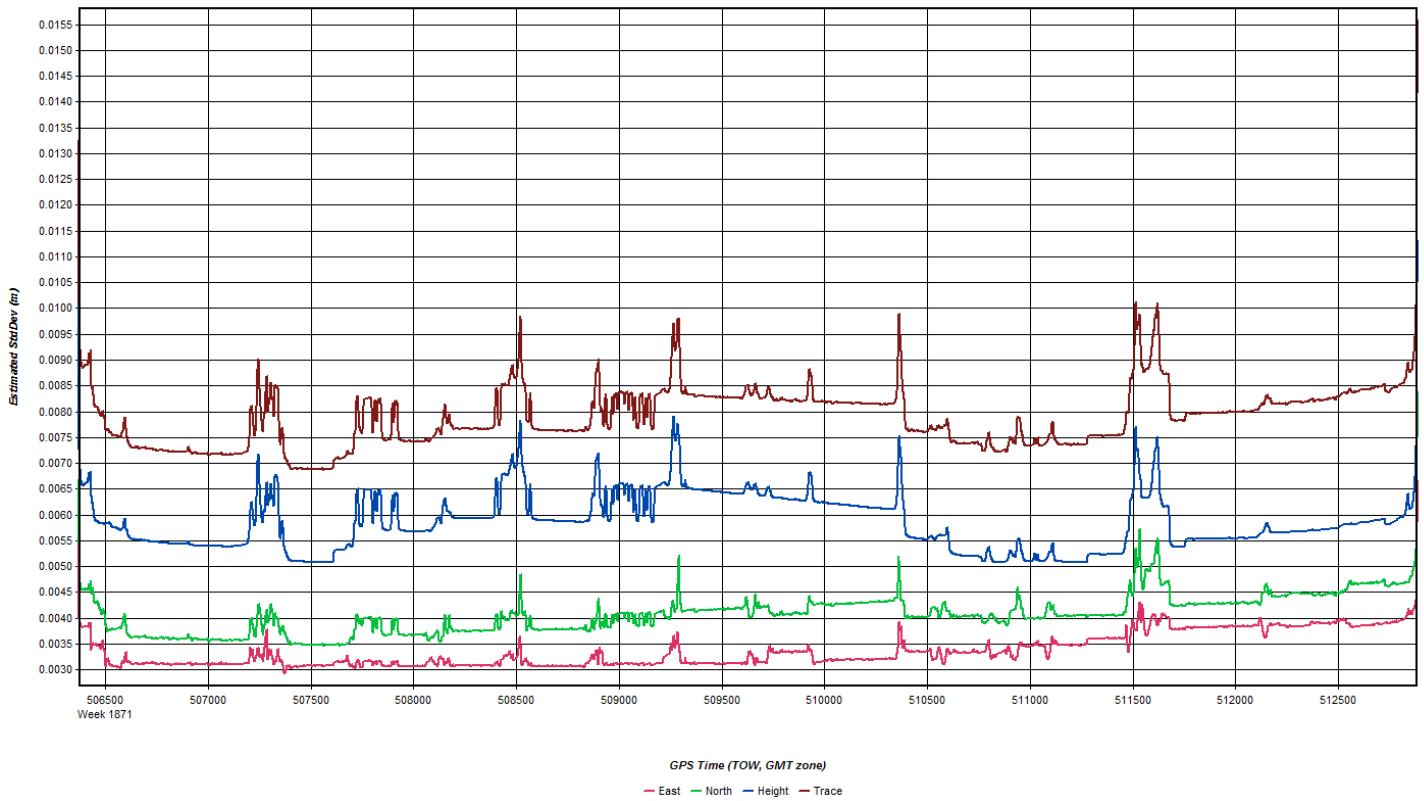
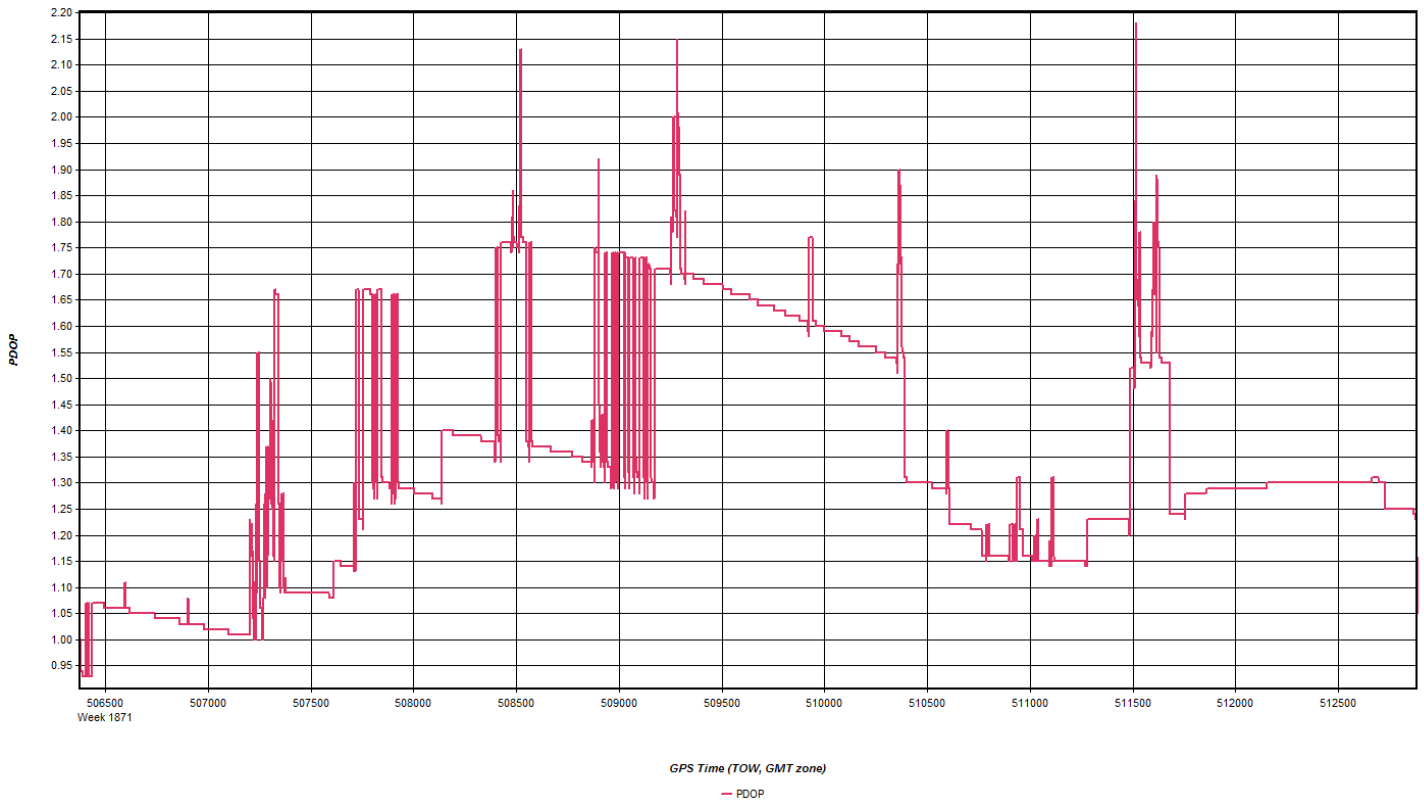
Measured to
 ARP
 L1 Phase Centre
 Compute From Slant

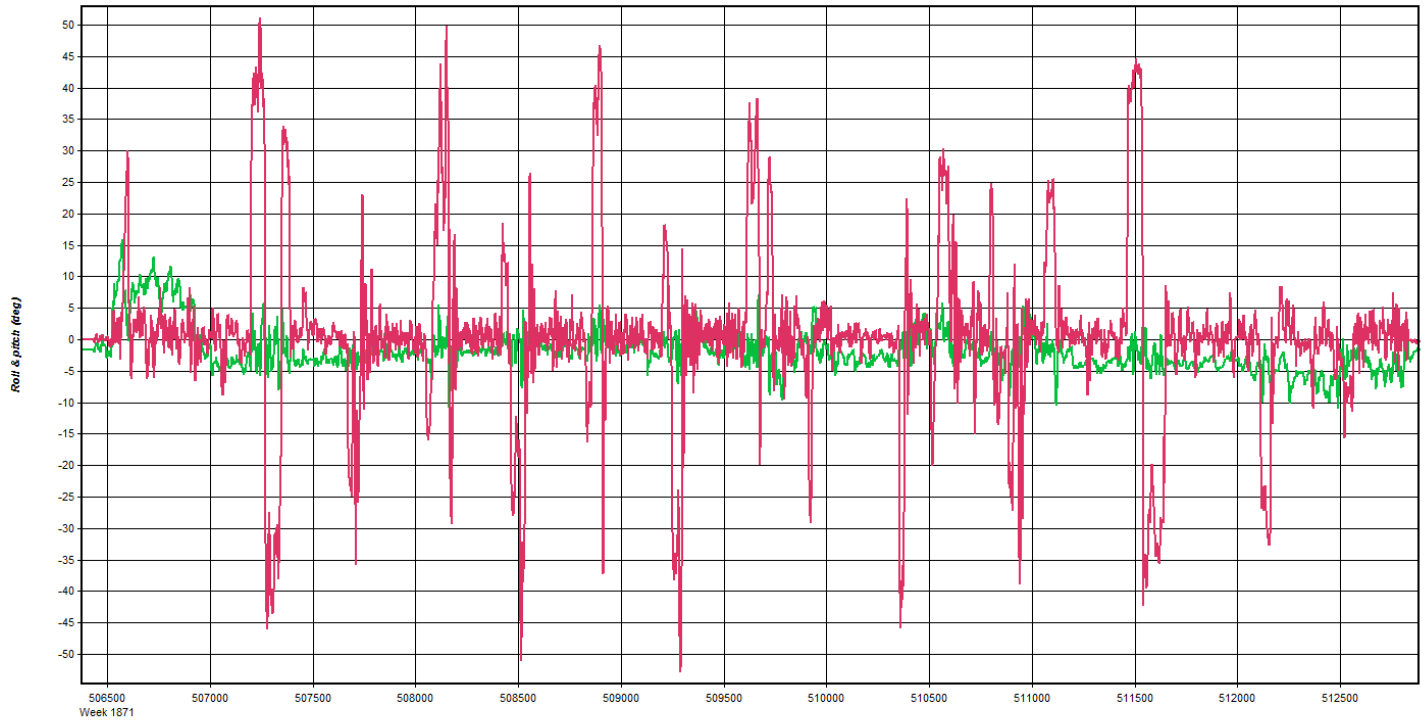
OK Cancel

Nov 20, 2015-B (N1107Q, SN7108)

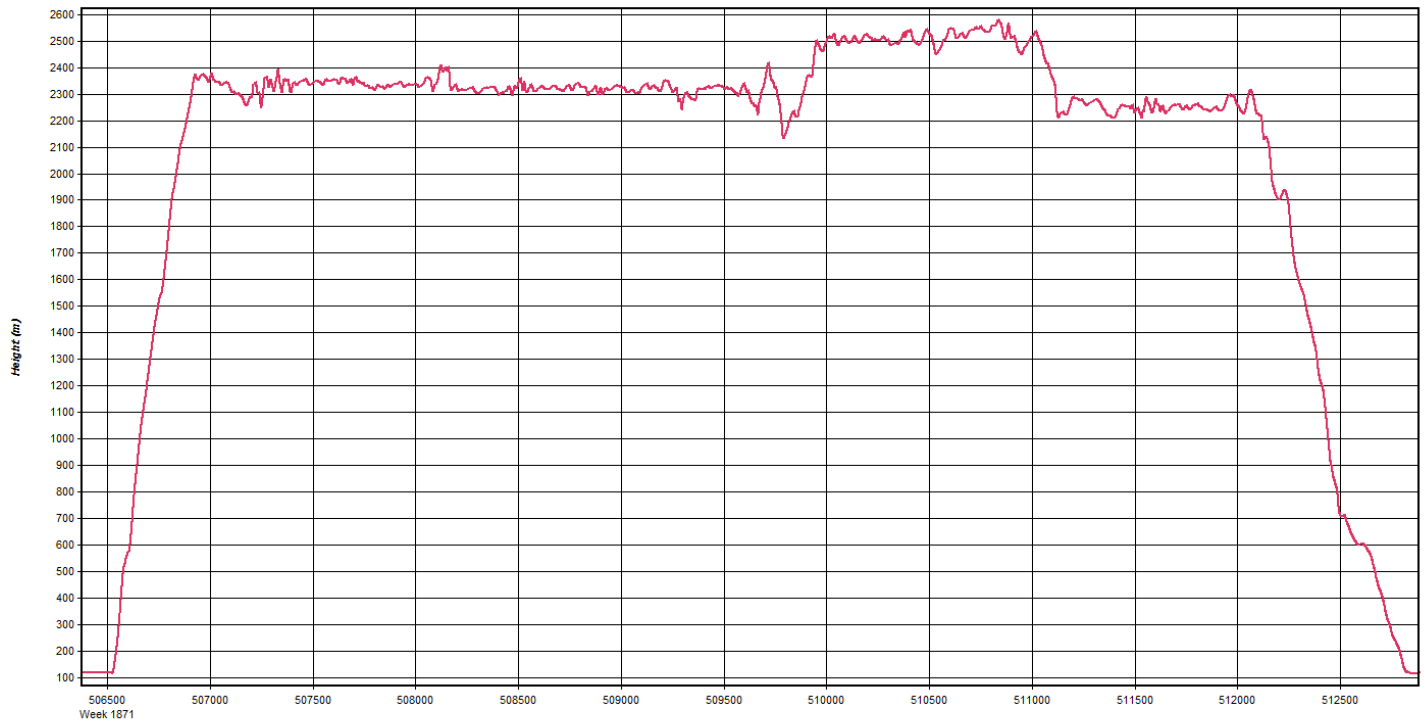




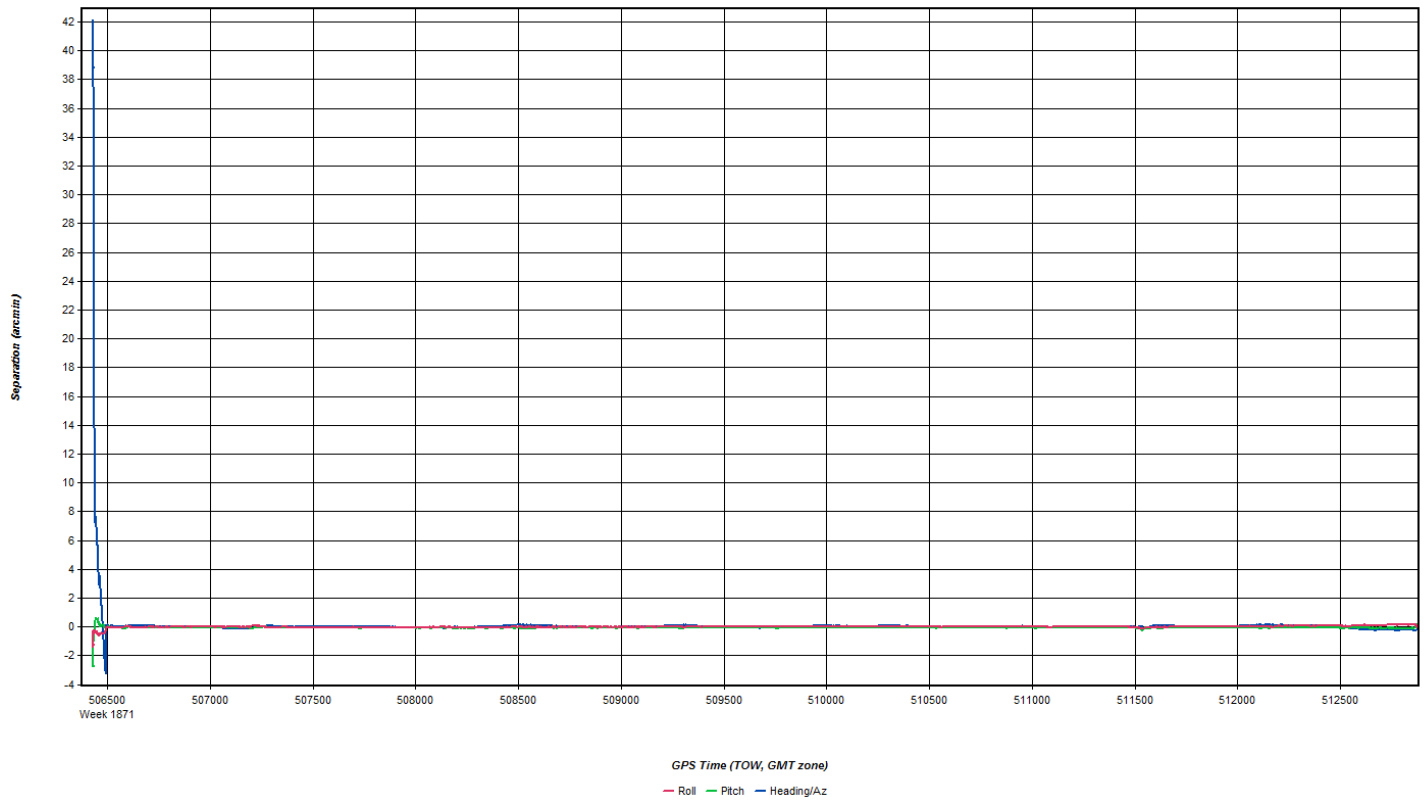
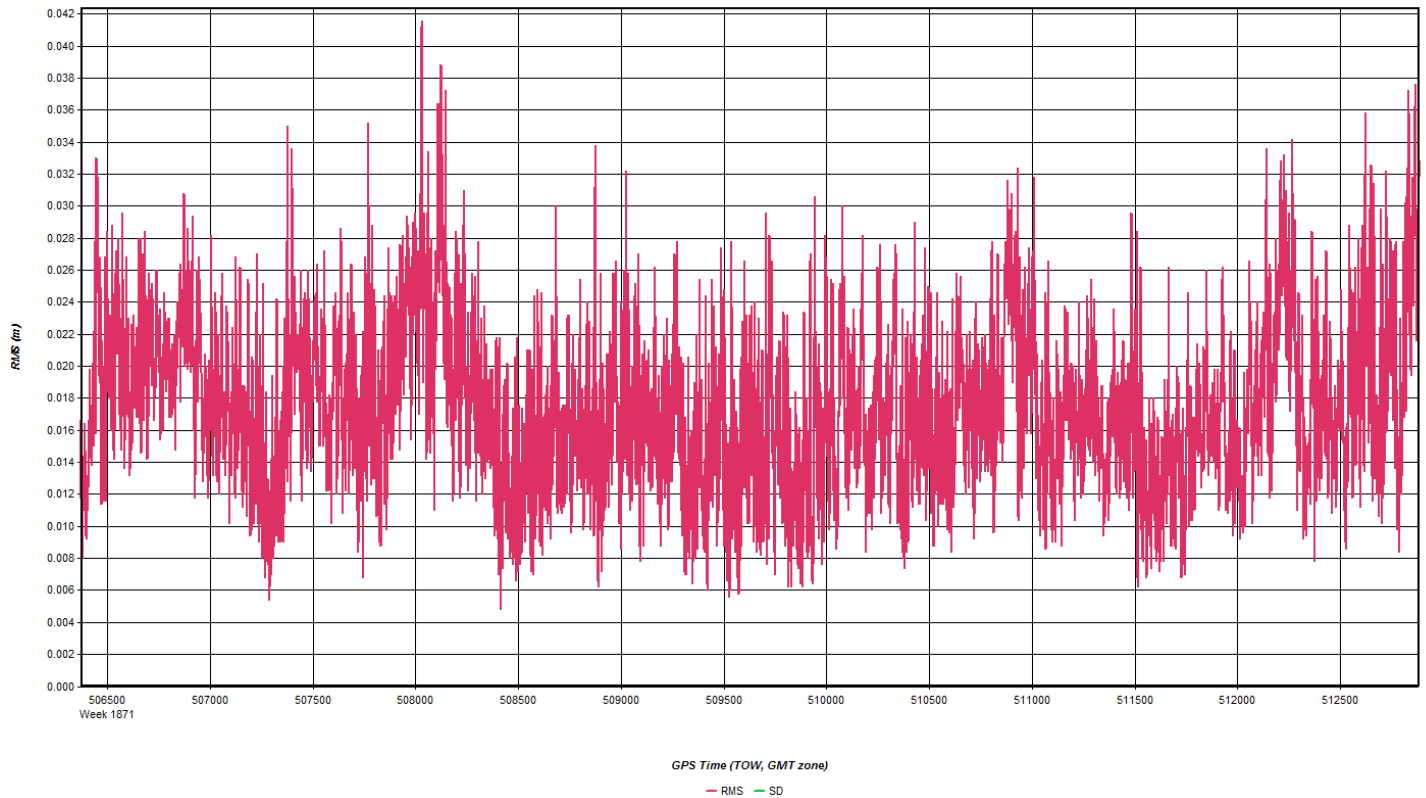


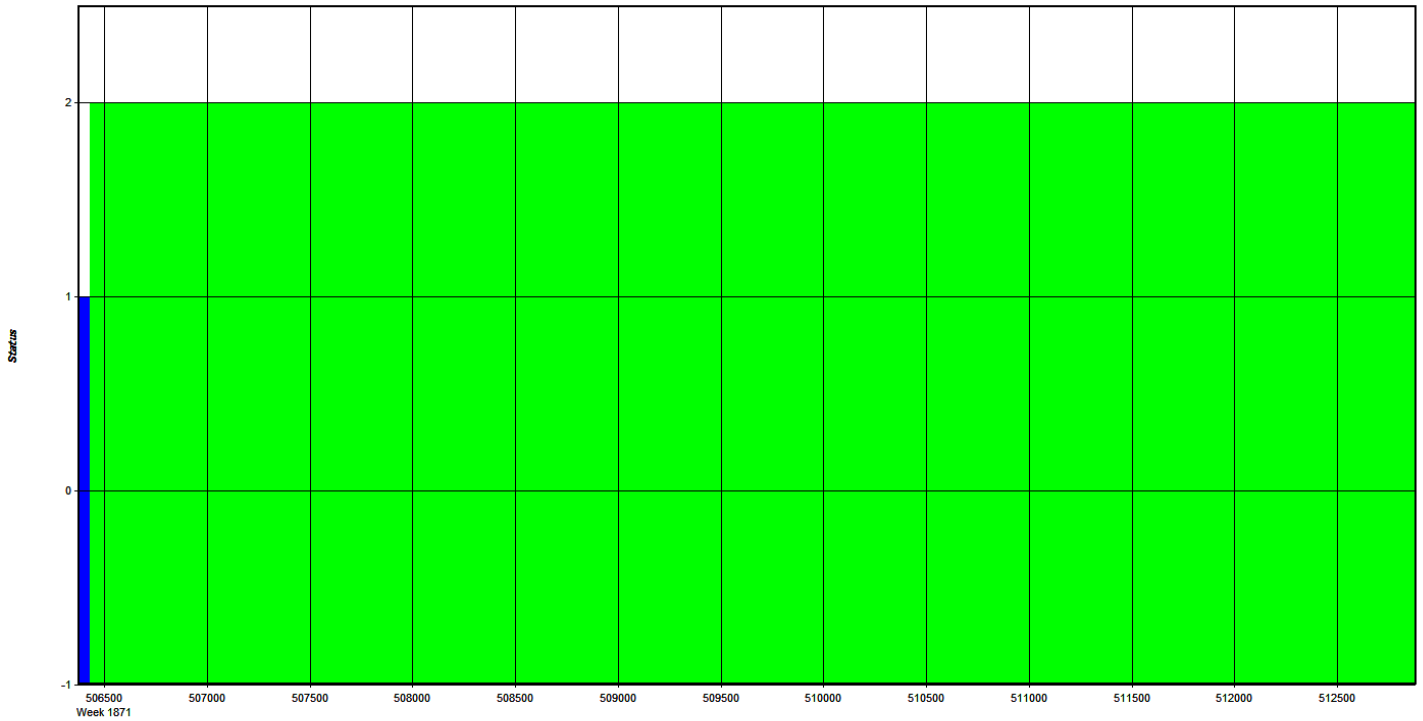


GPS Time (TOW, GMT zone)
— Roll — Pitch



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

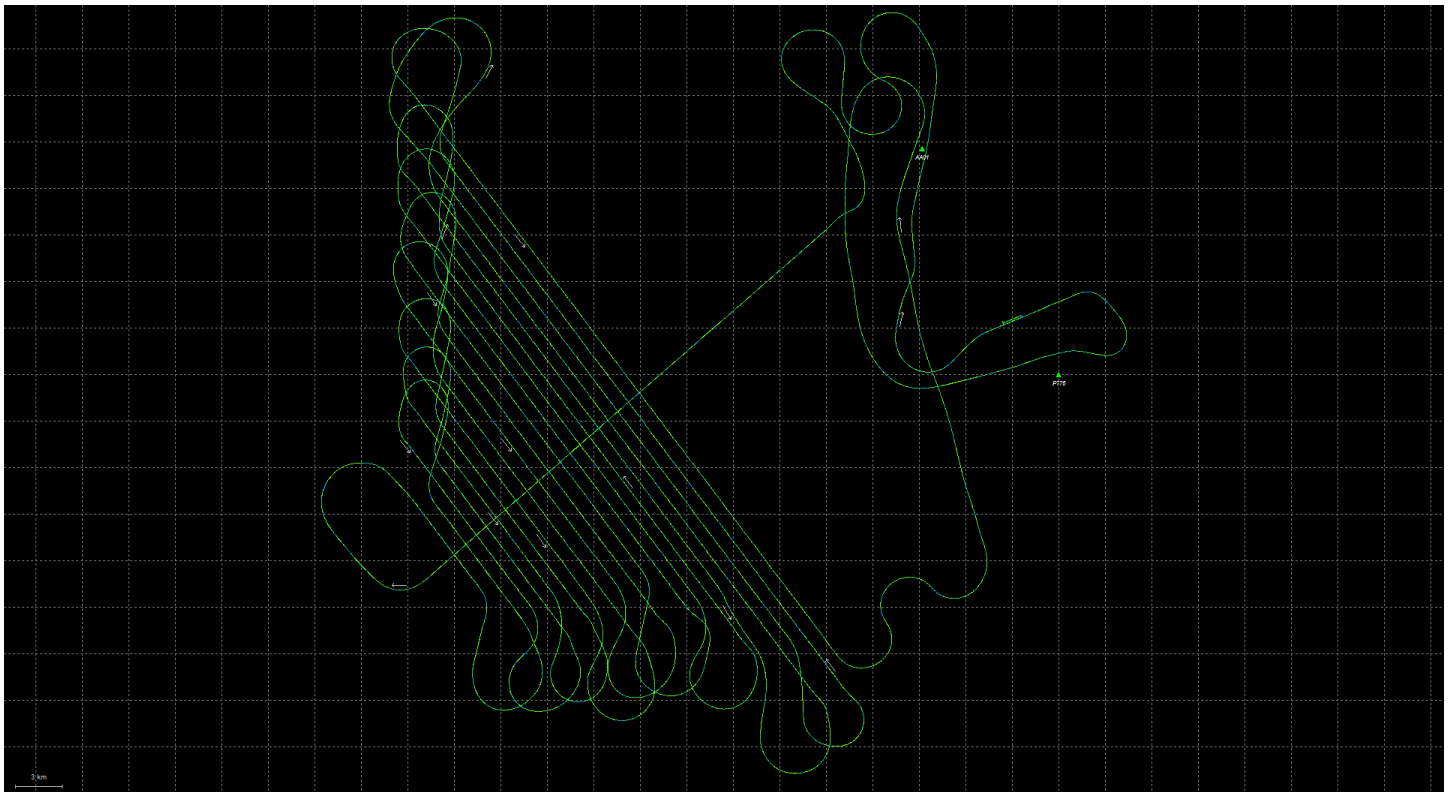
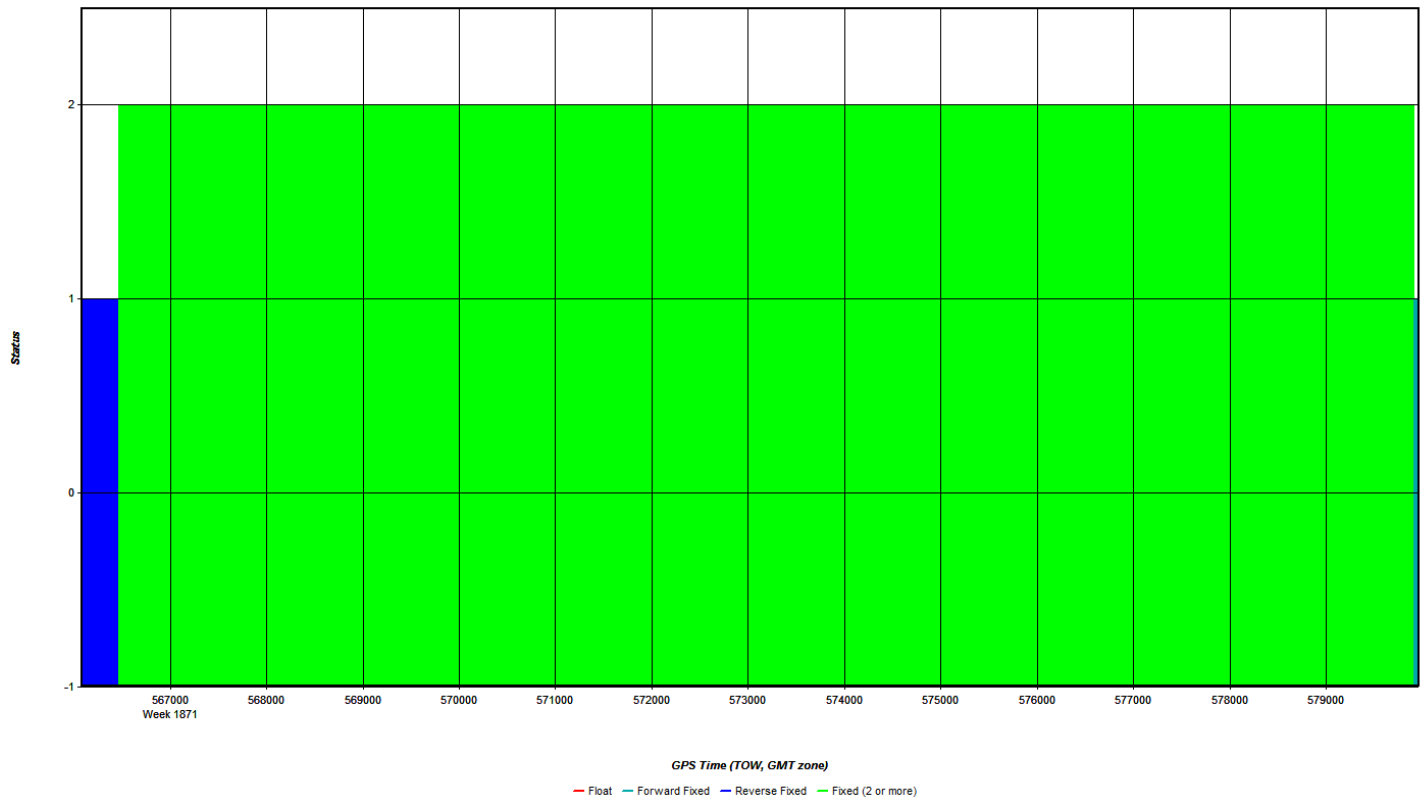
Base Station
 1: VTD2_CORS Name: VTD2_CORS Disabled
 File: F:\Proc\26818_CT_River\F9R8\ConnecticutRiver_Keene_NH\R:

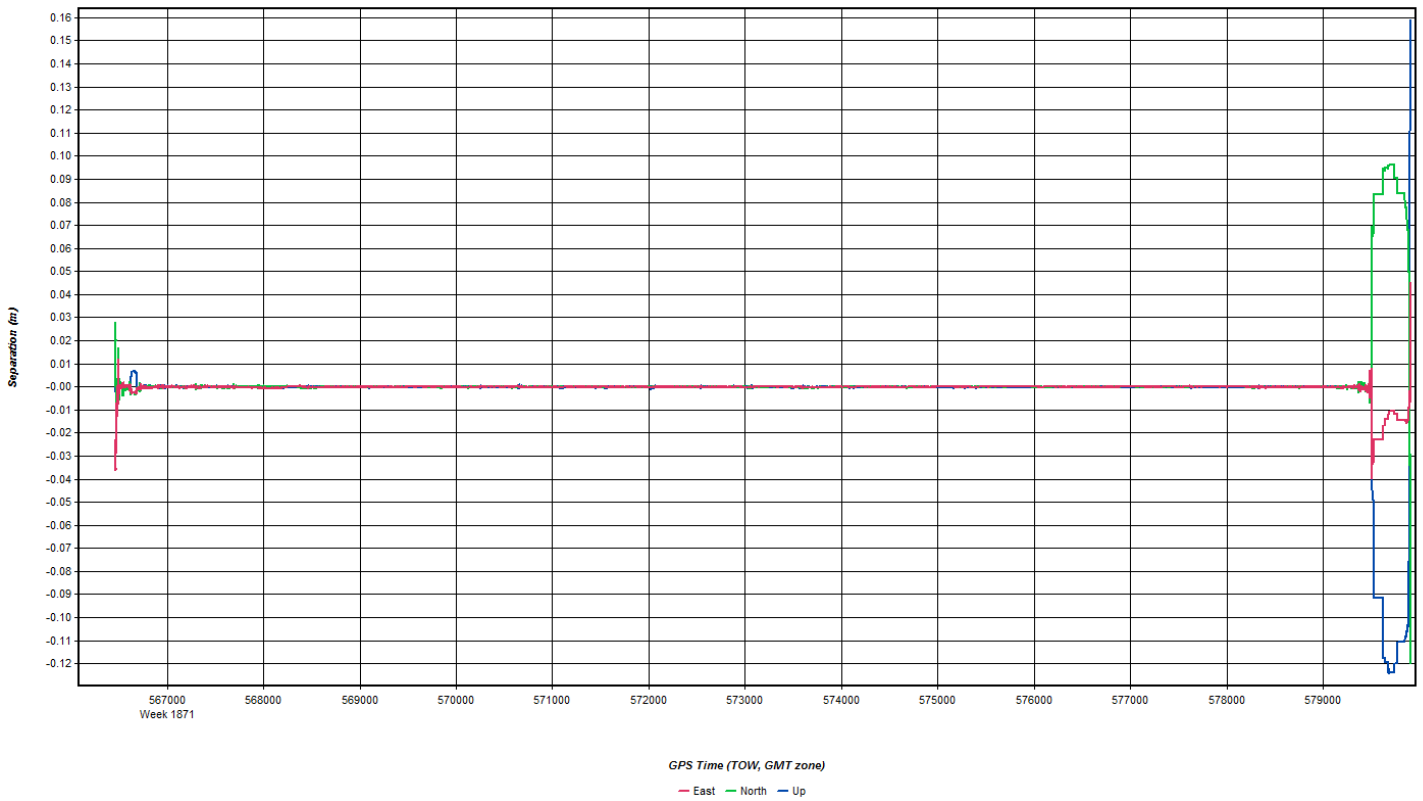
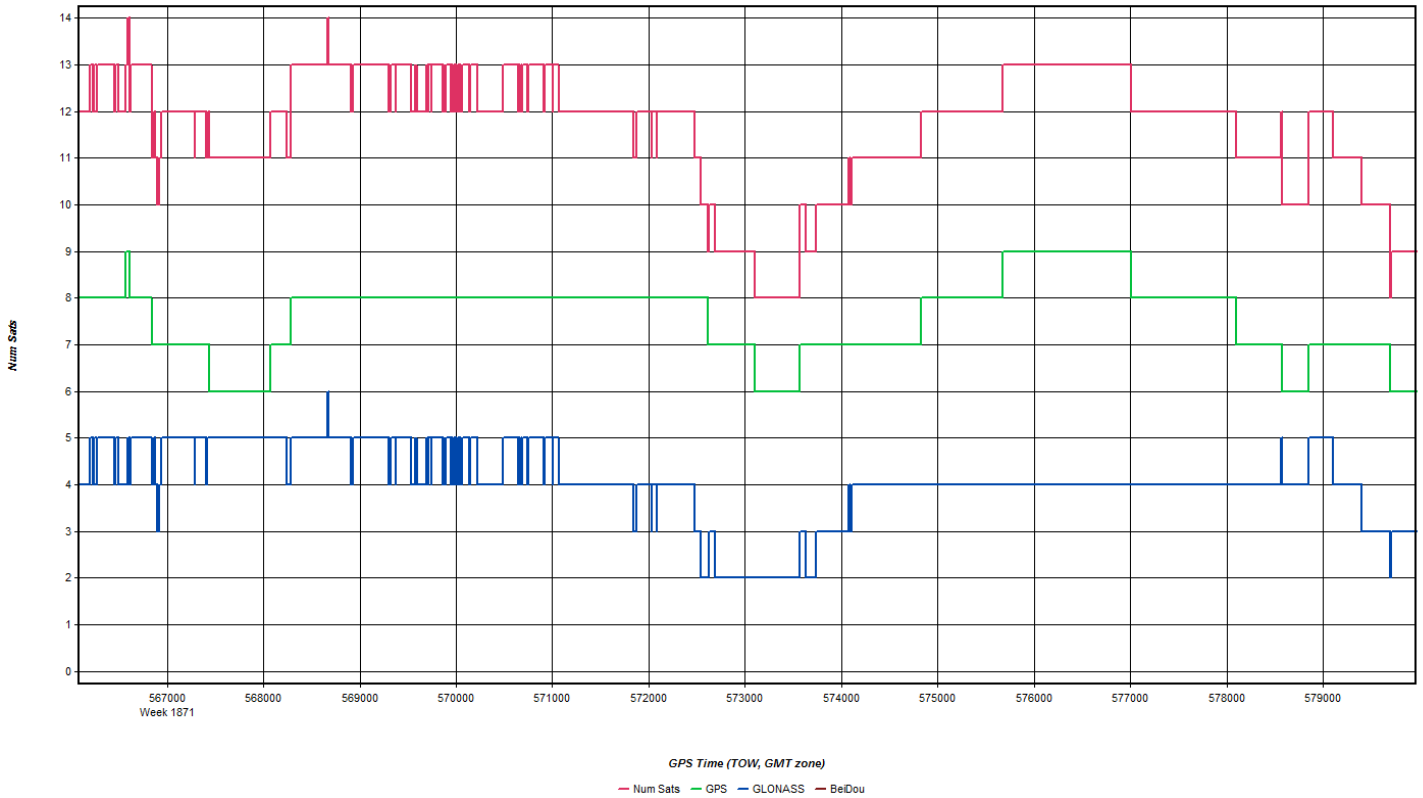
Coordinates
 Latitude: North 42 55 06.10798 Compute from PPP
 Longitude: West 72 32 06.44140 Enter Grid Values
 Ellipsoidal height: 98.040 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

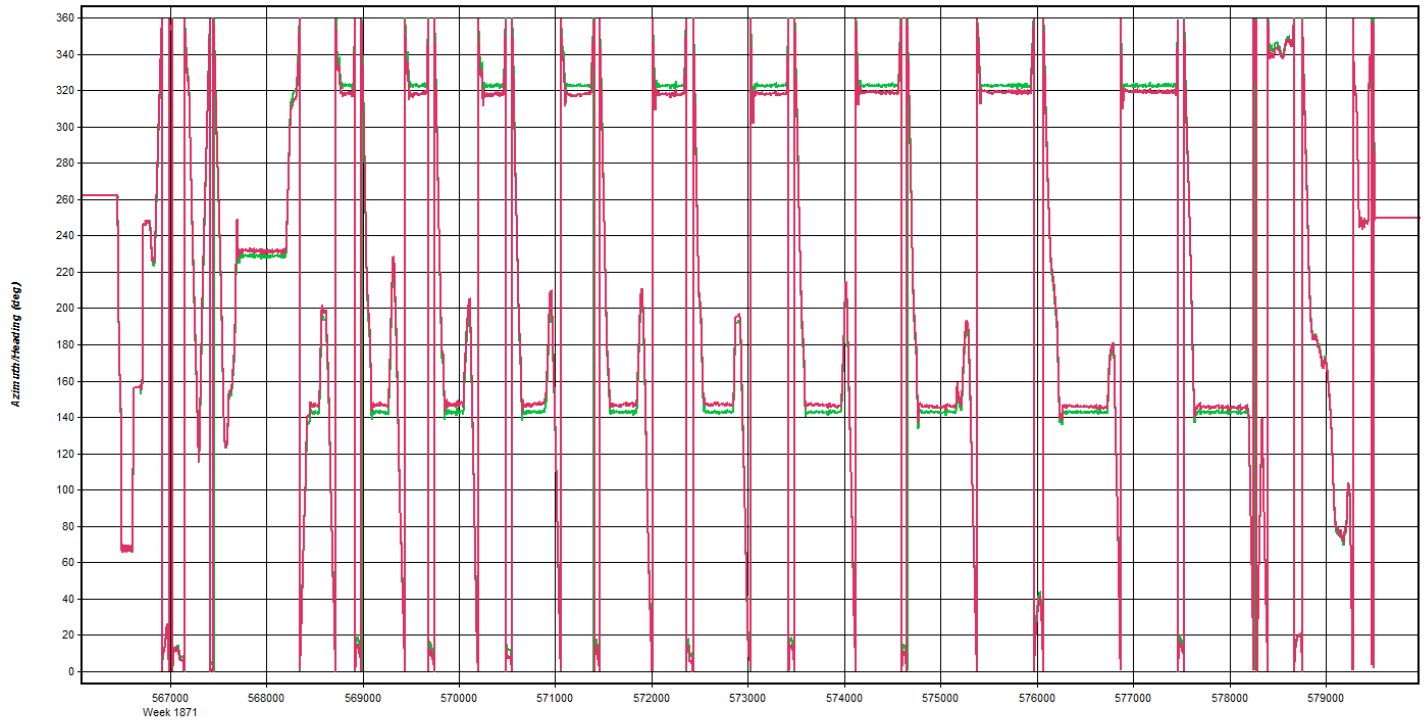
Antenna Height
 From station file: TRM55971.00, NONE View STA File
 Antenna profile: TRM55971.00 Info
 Measured height: 0.000 m
 ARP to L1 offset: 0.067 m
 Applied height: 0.000 m
 Measured to:
 ARP
 L1 Phase Centre
 Compute From Slant

OK Cancel

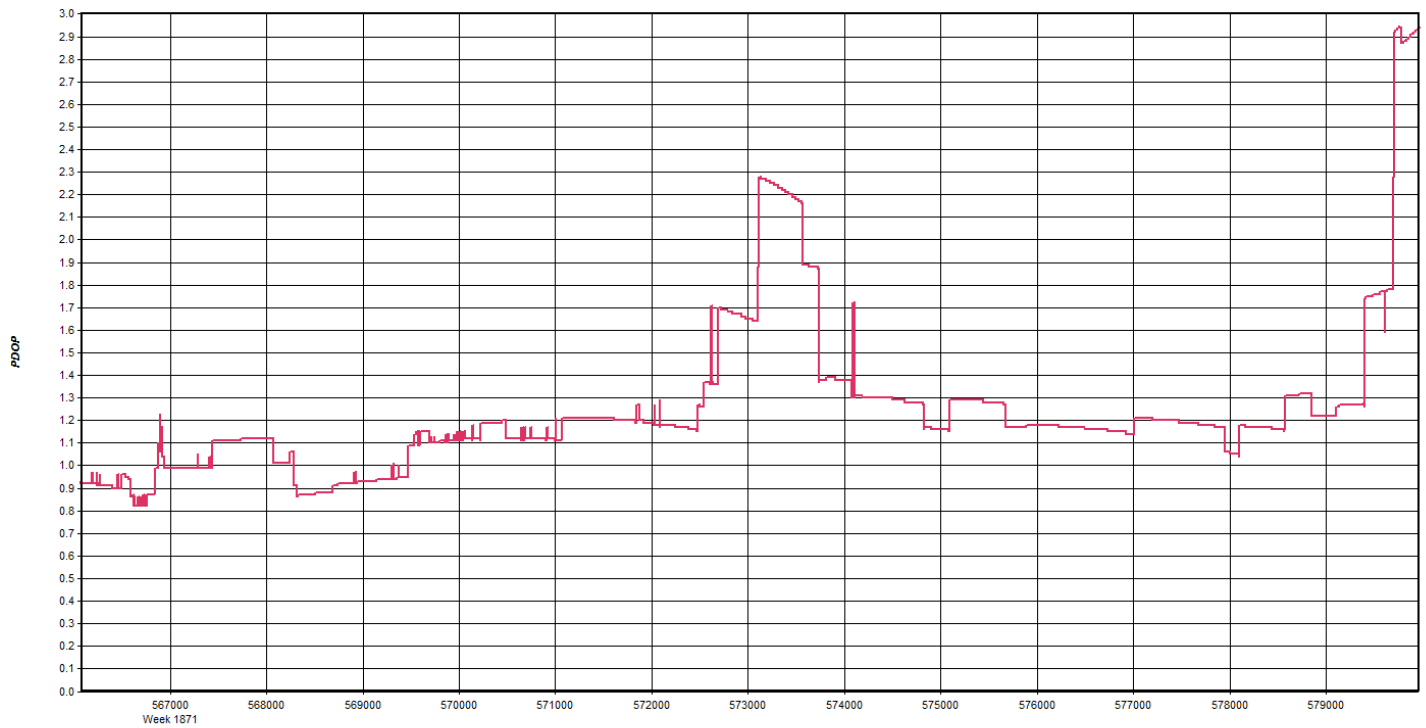
Nov 21, 2015-A (N6GR, SN7161)



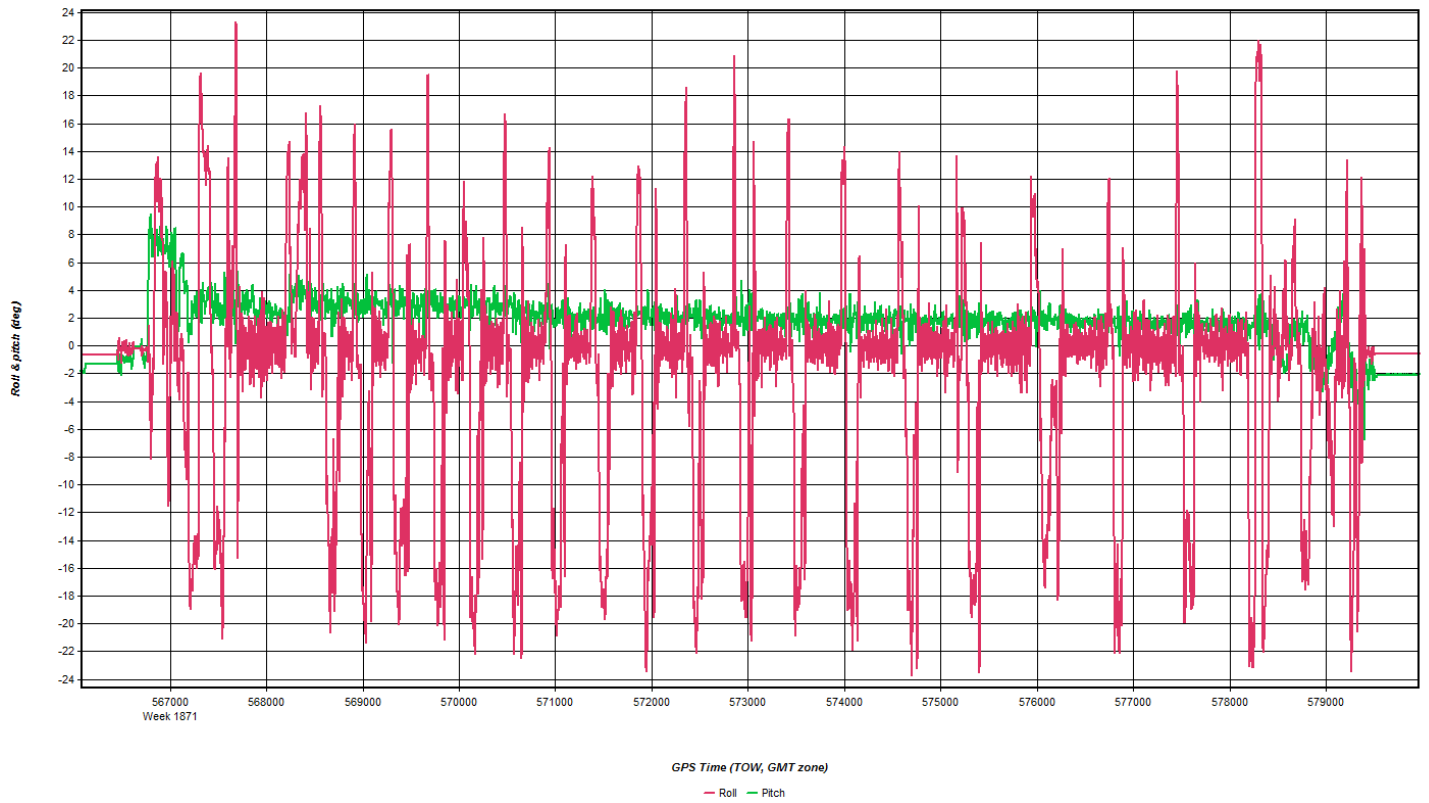
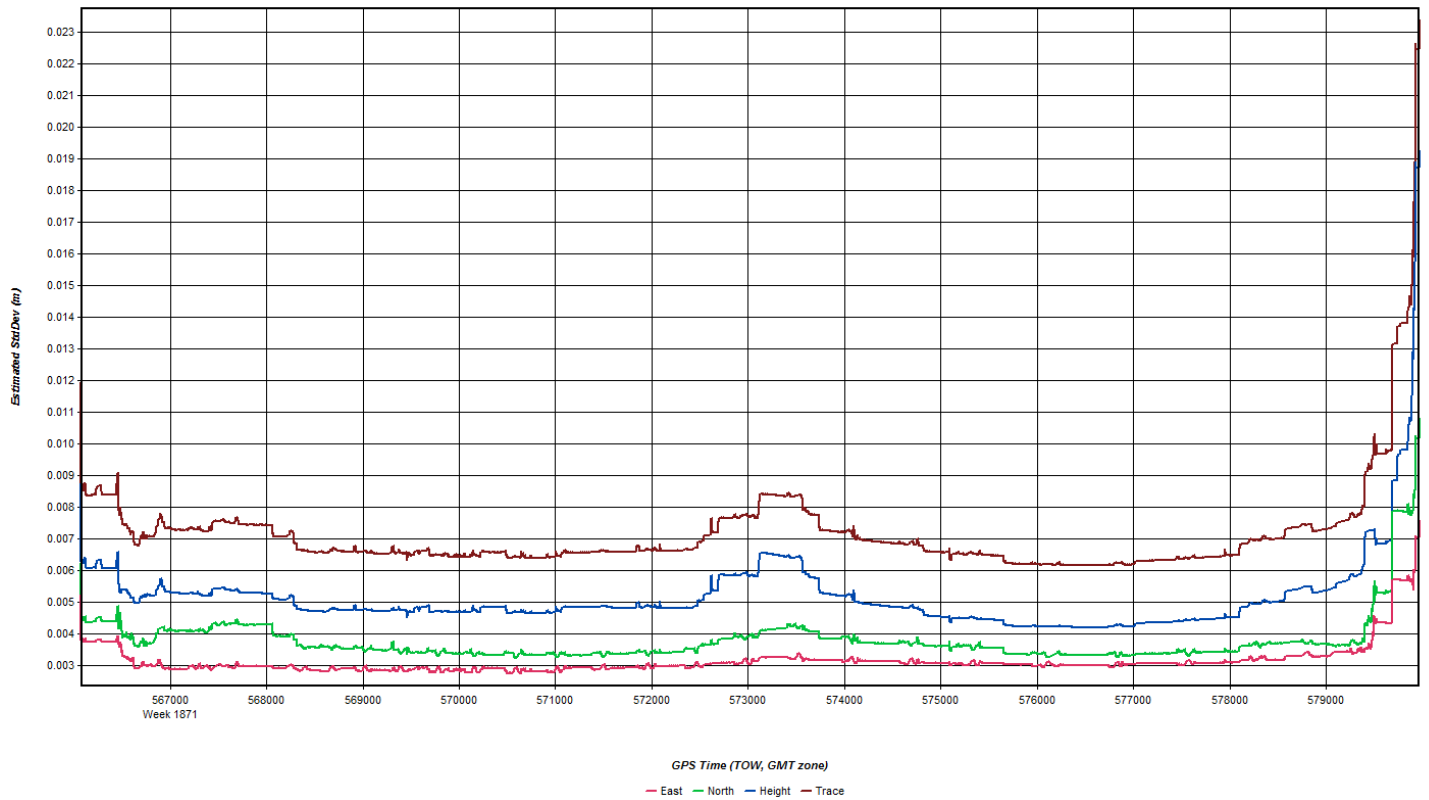


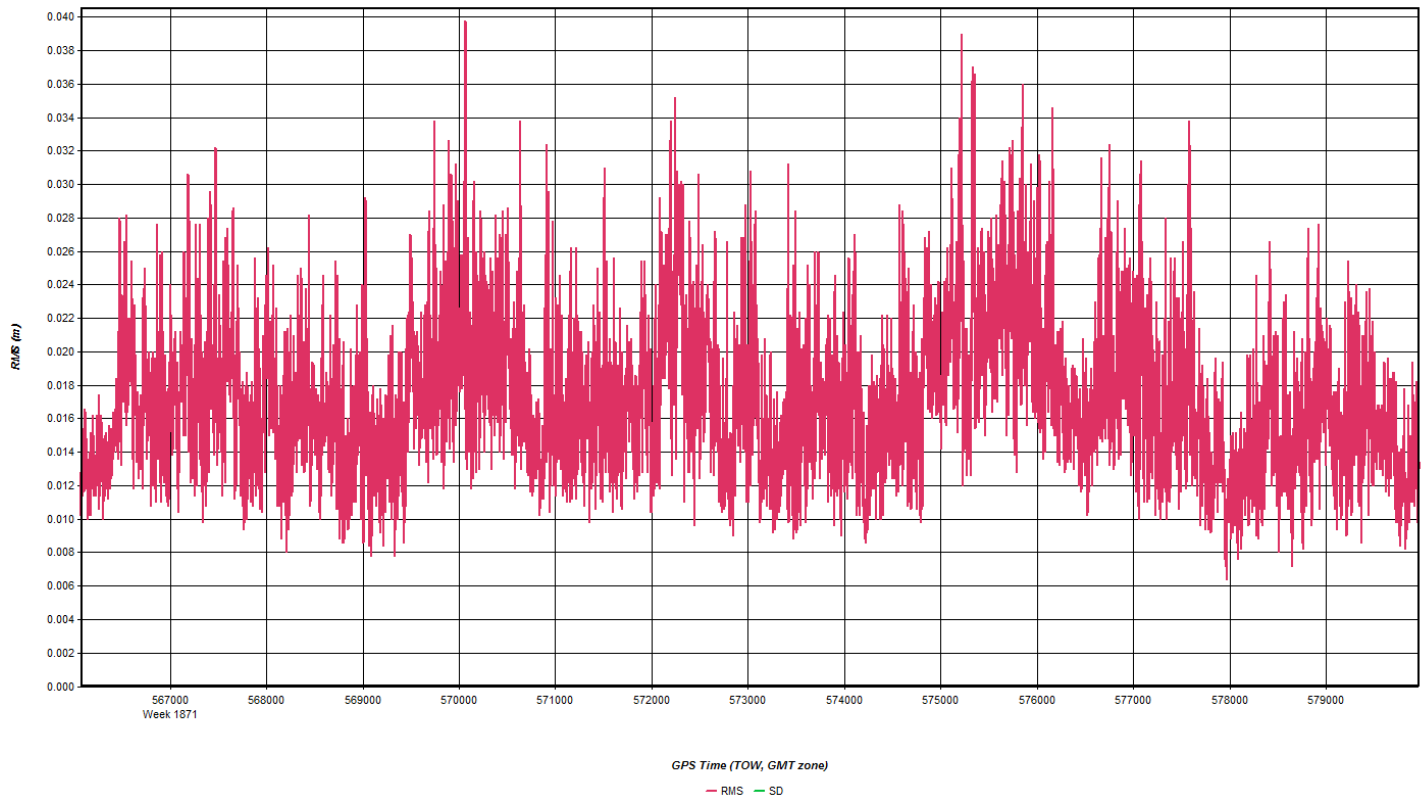
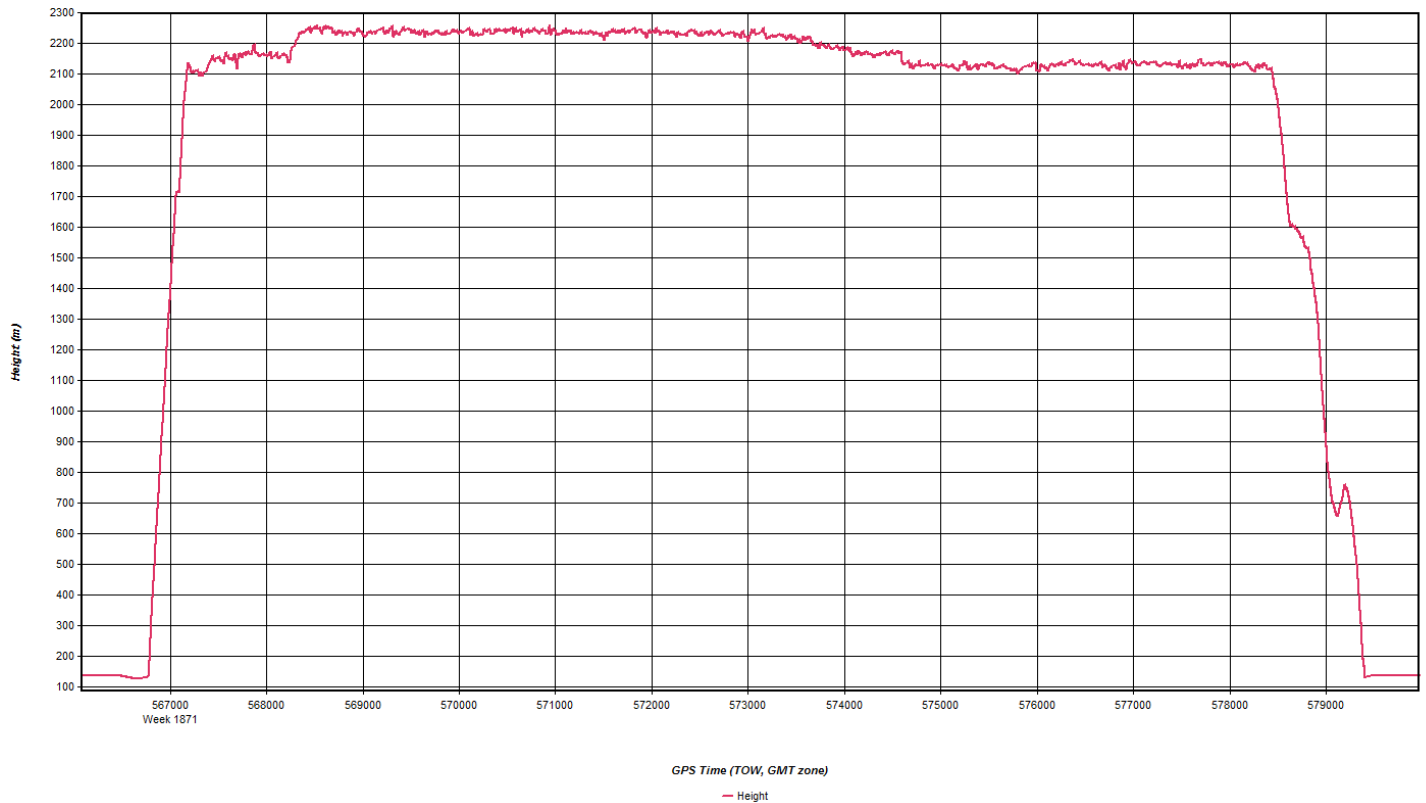


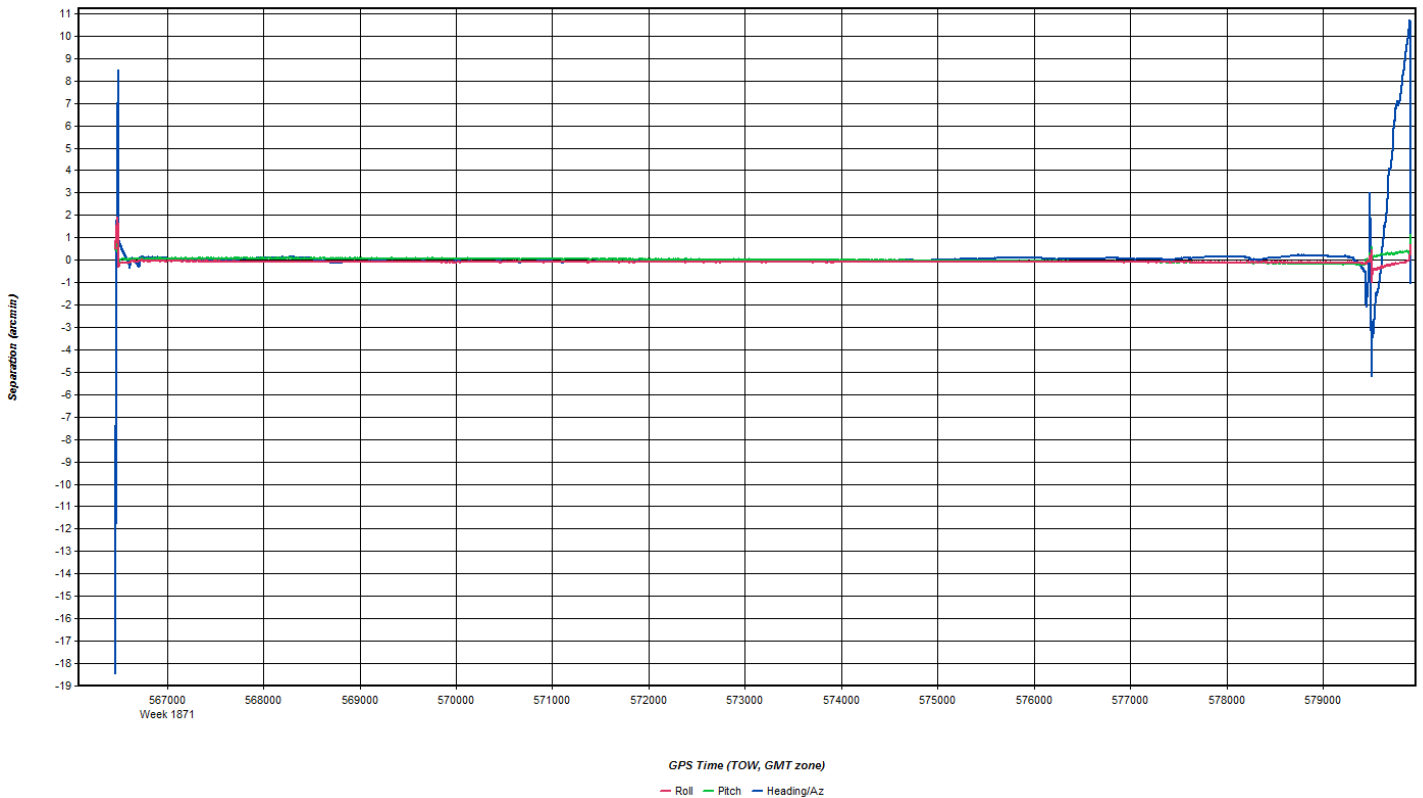
GPS Time (TOW, GMT zone)
— Heading/Azimuth — GPS-COG



GPS Time (TOW, GMT zone)
— PDOP







Coordinate/Antenna Settings

Master Remote

Base Station
 1: P776 Name: P776 Disabled
 File: E:\GW_Proc\26818_CT_River\SREB\26818_USGS_CT_River_V

Coordinates
 Latitude: North 43 32 35.72074 Compute from PPP
 Longitude: West 71 22 42.78910 Enter Grid Values
 Ellipsoidal height: 478.115 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

Antenna Height
 From station file: TRM29659.00, SCIT View STA File
 Antenna profile: TRM29659.00, SCIT Info

Measured height: 0.008 m
 ARP to L1 offset: 0.086 m
 Applied height: 0.094 m

Measured to
 ARP
 L1 Phase Centre
 Compute From Slant

OK Cancel

Coordinate/Antenna Settings

Master Remote

Base Station
 2: AA01 Name: AA01 Disabled
 File: E:\GW_Proc\26818_CT_River\Sre8\26818_USGS_CT_River_Wi

Coordinates
 Latitude: North 43 40 21.87219 Compute from PPP
 Longitude: West 71 29 10.54110 Enter Grid Values
 Ellipsoidal height: 221.099 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

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

20151210-7161
1410 Indian Trail Rd. - Norcross, GA - 30093 - 770.564.9843 - www.photoscience.com

PHOTO SCIENCE
Geospatial Solutions

LIDAR MISSION RECORD SHEET

Project Name: USGS CT RIVER WINNIPESAUKEE		Date Flown: 11/21/2015	
Project Number: ZL0818		Takeoff Time: 13:25 Z	
Flight Plan File: ZL0818-WINNIPESAUKEE-SURFLO-160KTS-F04		Landing Time: 16:58 Z	

Pilot: SWEET	Field Elev.: 545'
Tech: HALL	Temp. at Altitude: -7°C
Aircraft: N6GR	

Data Information	
IPAS File Name: 20151210_01405	
From/To: 000 -> 034	
LIDAR Unit #: s/n 7161	
HD #: 018	

start stop
BASE: 12:40Z
ABGPS: 13:14Z
HOBBS: 319:8 17:05Z 319:3

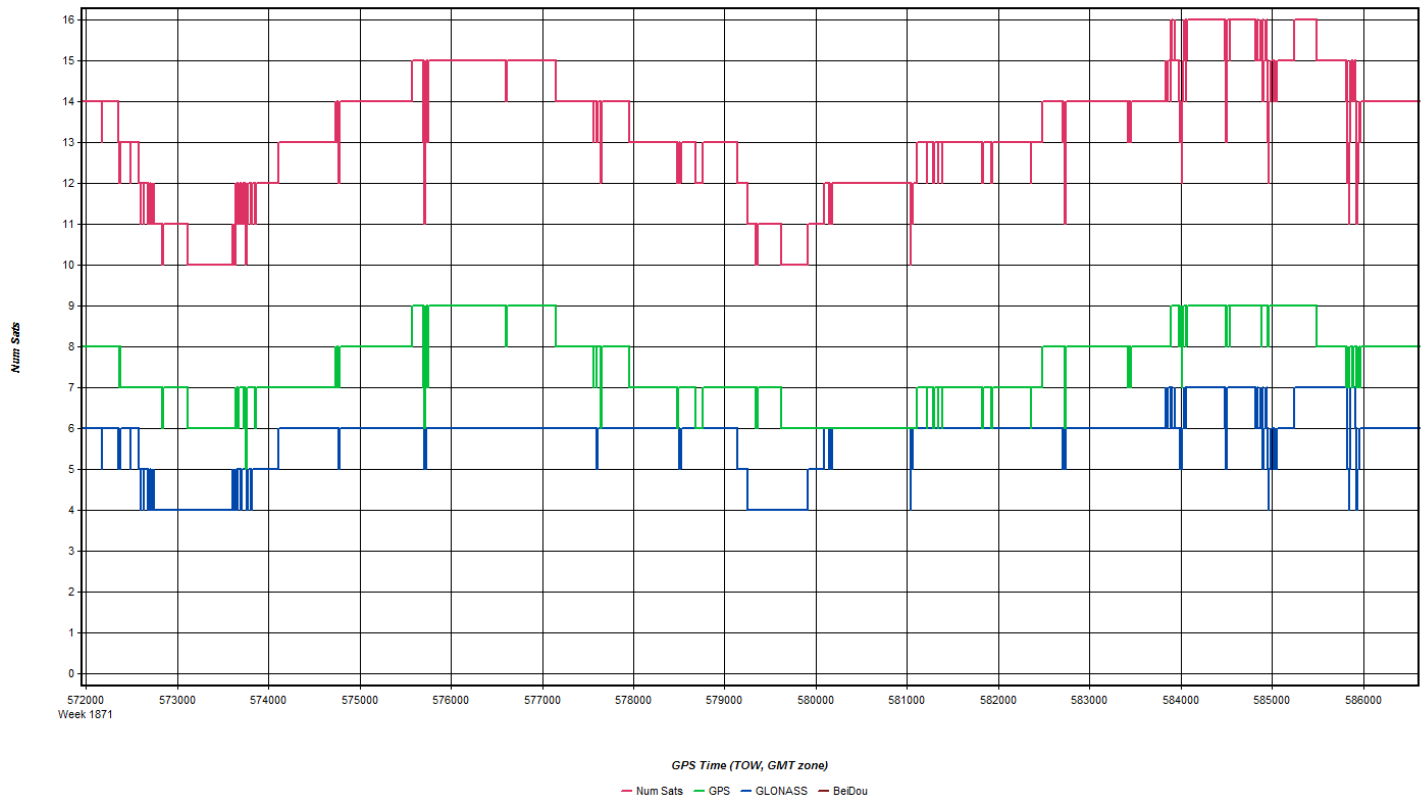
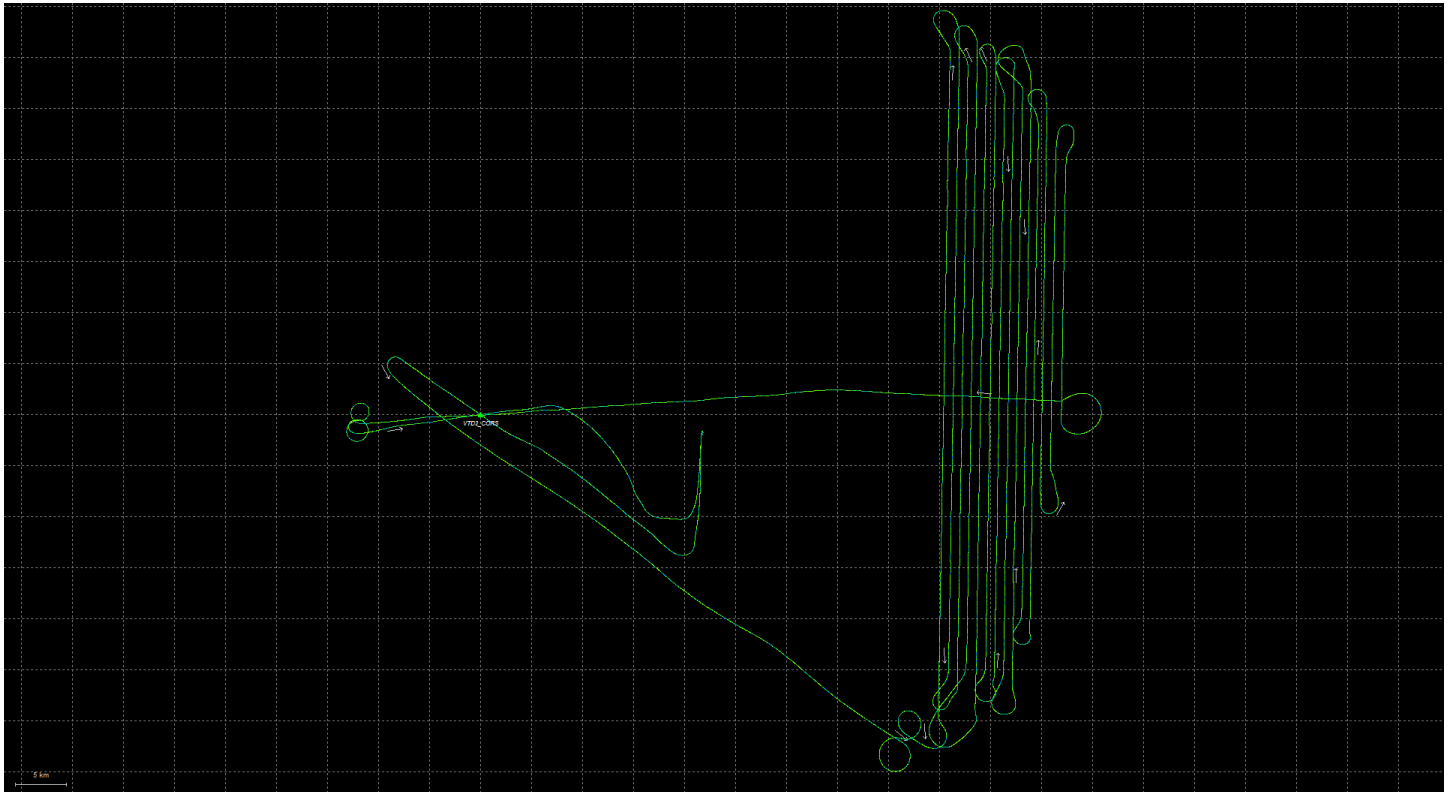
Project's Scanning Requirements	
FOV (degrees): 4.0%	SPIA? %
Scan Rate (Hz): 53.4	MP/R
Pulse Rate (Hz): 131700	Altitude AGL (ft): 6000'
Ground Speed (kts): 160	Range Gate (m): 1330-1460'

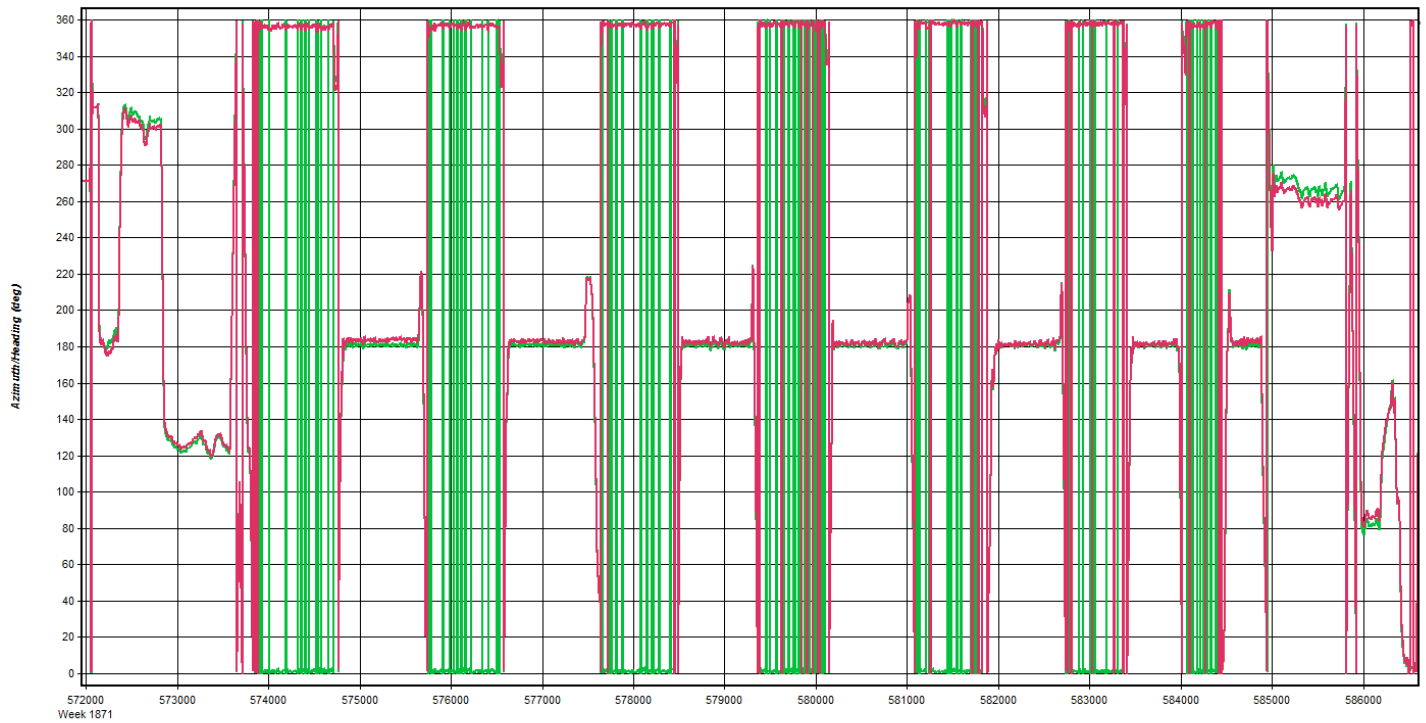
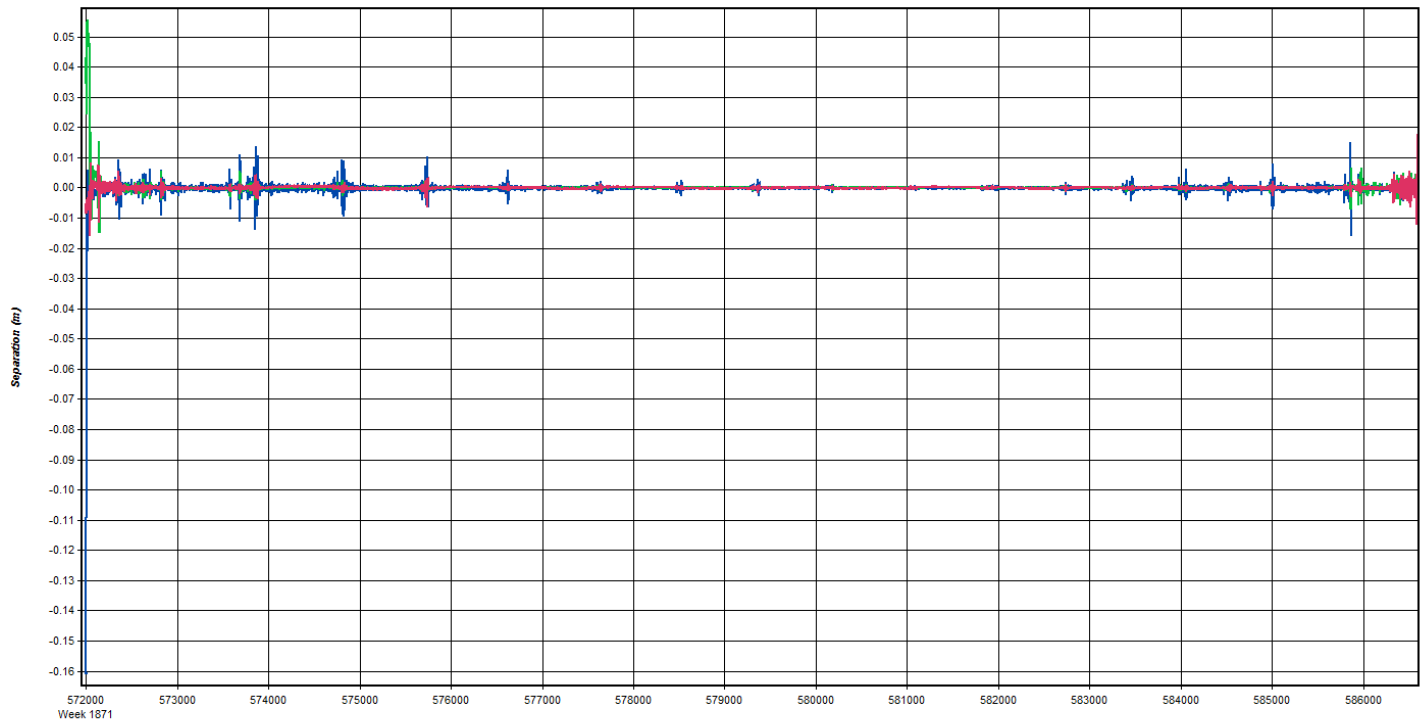
FCMS File Name: 20151210_130810
GPS Base Location(s): KENNET AGR / SET PT @ LCI
Static or Flyover?: BOTH
Laser On Time & Off Times: 13:14 z / 17:05 z

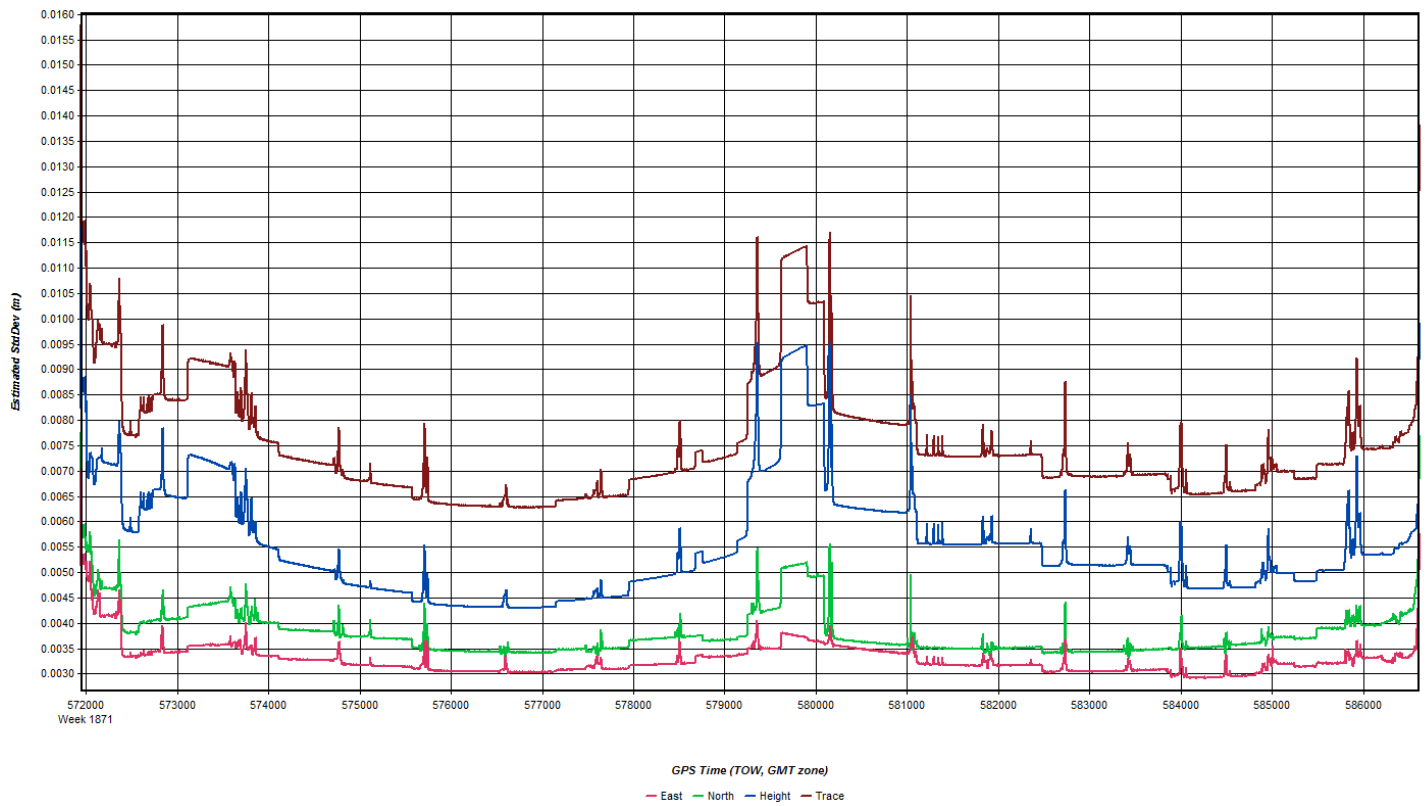
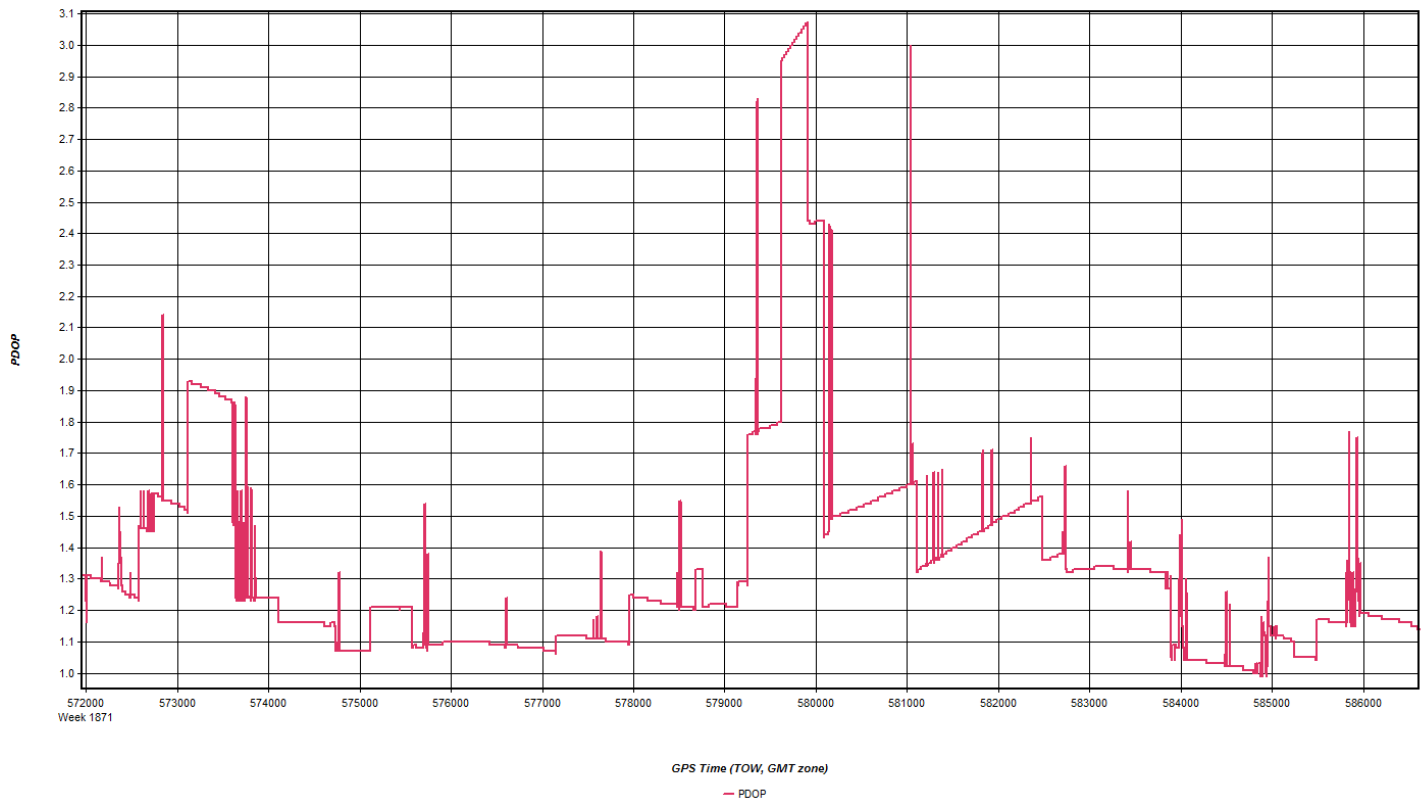
FILE	FL #	Alt. (AMSL)	Heading	Speed	Returns	Crab	PDOF	NOTES
13458	5015	7031	229°	160	48%	0	1.0	SCATTERED 25K; WIND 210° @ 12KTS; TIE LINE
13526	5017	7329	143°	146	100%	0	1.2	WIND 248° @ 11KTS.
13551	5018	7316	323°	137	99%	0	1.1	" 278° @ 16KTS.
14028	5019	7316	143°	144	100%	0	1.2	" 264° @ 12 " ON @ 10K
14151	5020	7309	323°	140	86%	0	1.2	" 240° @ 12 "
14150	5021	7309	143°	147	100%	0	1.3	" 267° @ 14 "
14245	5022	7319	323°	136	98%	0	1.3	" 238° @ 12 "
14326	5023	7323	143°	151	100%	0	1.3	" 218° @ 13 "
14356	5024	7342	323°	150	100%	0	1.2	" 231° @ 12 "
14444	5025	7359	143°	156	100%	0	1.3	" 261° @ 13 "
14533	5026	7339	323°	148	100%	0	1.2	" 232° @ 13 "
15024	5027	7313	143°	155	100%	0	1.2	" 271° @ 14 "
151125	5028	7277	323°	148	100%	0	1.0	" 237° @ 14 "
152034	5029	7178	143°	156	100%	0	1.1	" 273° @ 12 "
152948	5030	7109	323°	146	96%	0	1.2	" 238° @ 12 "
154001	5031	6975	143°	160	100%	0	1.2	" 271° @ 11 "
155101	5032	6975	323°	149	99%	0	1.3	" 246° @ 11 "
160441	5033	6978	143°	159	100%	0	1.3	" 246° @ 14 "
161524	5034	7008	323°	148	100%	0	1.2	" 242° @ 9 "
162804	5035	7011	143°	160	100%	0	1.2	

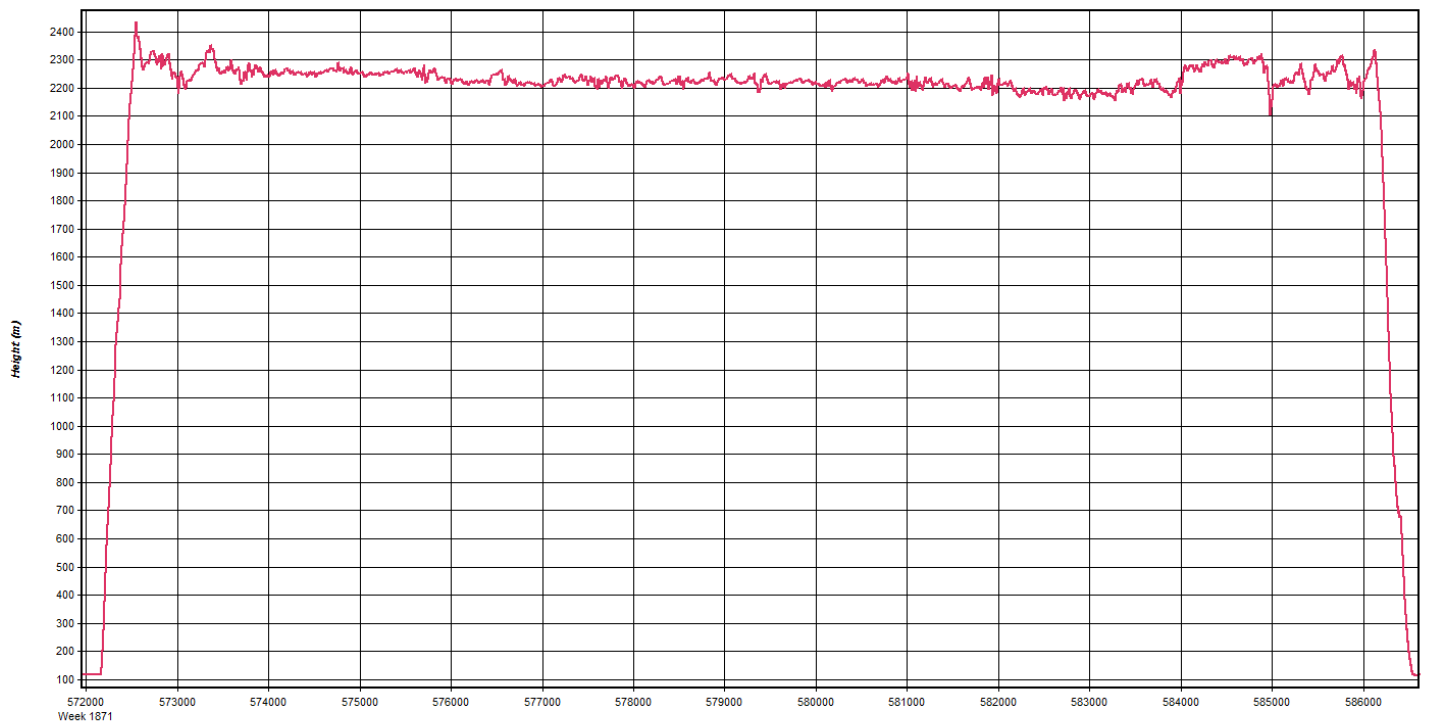
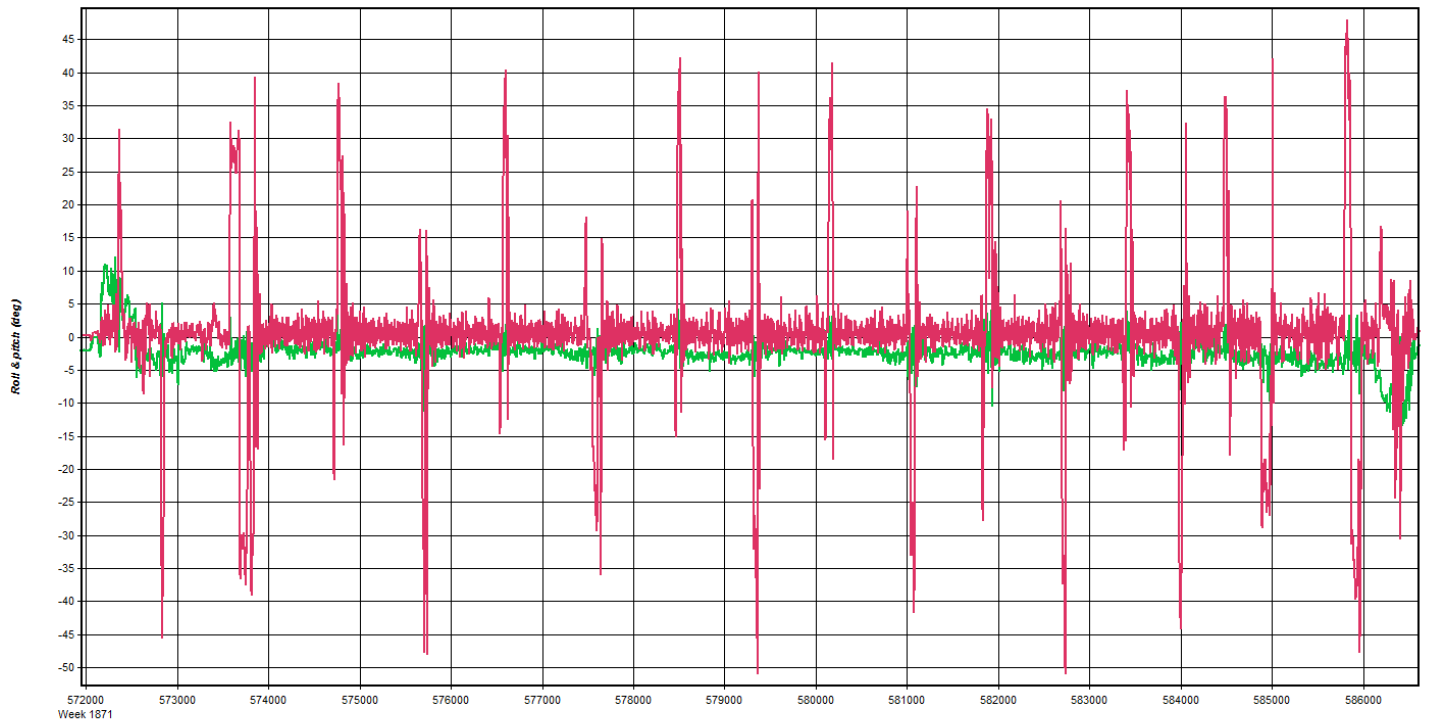
3.0 ONLINE 0.5 TRANS

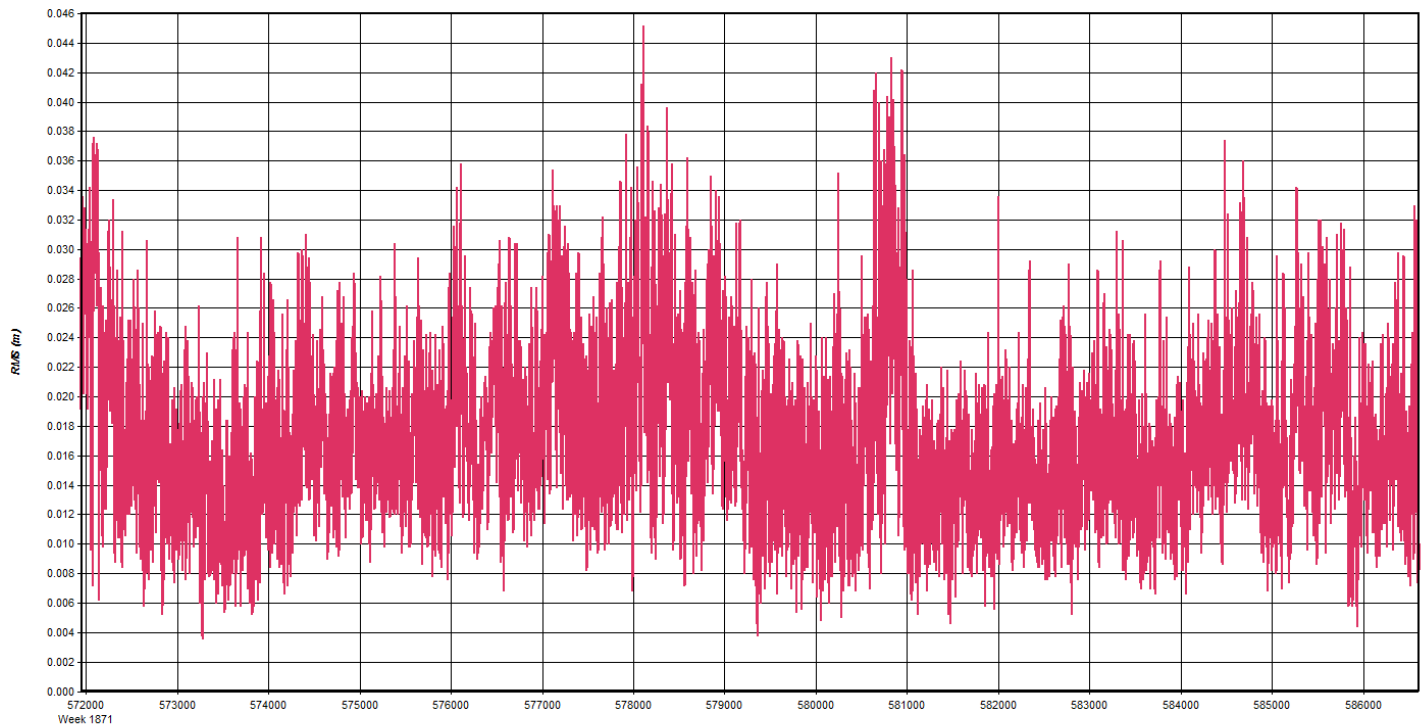
Nov 21, 2015-A (N1107Q, SN7108)





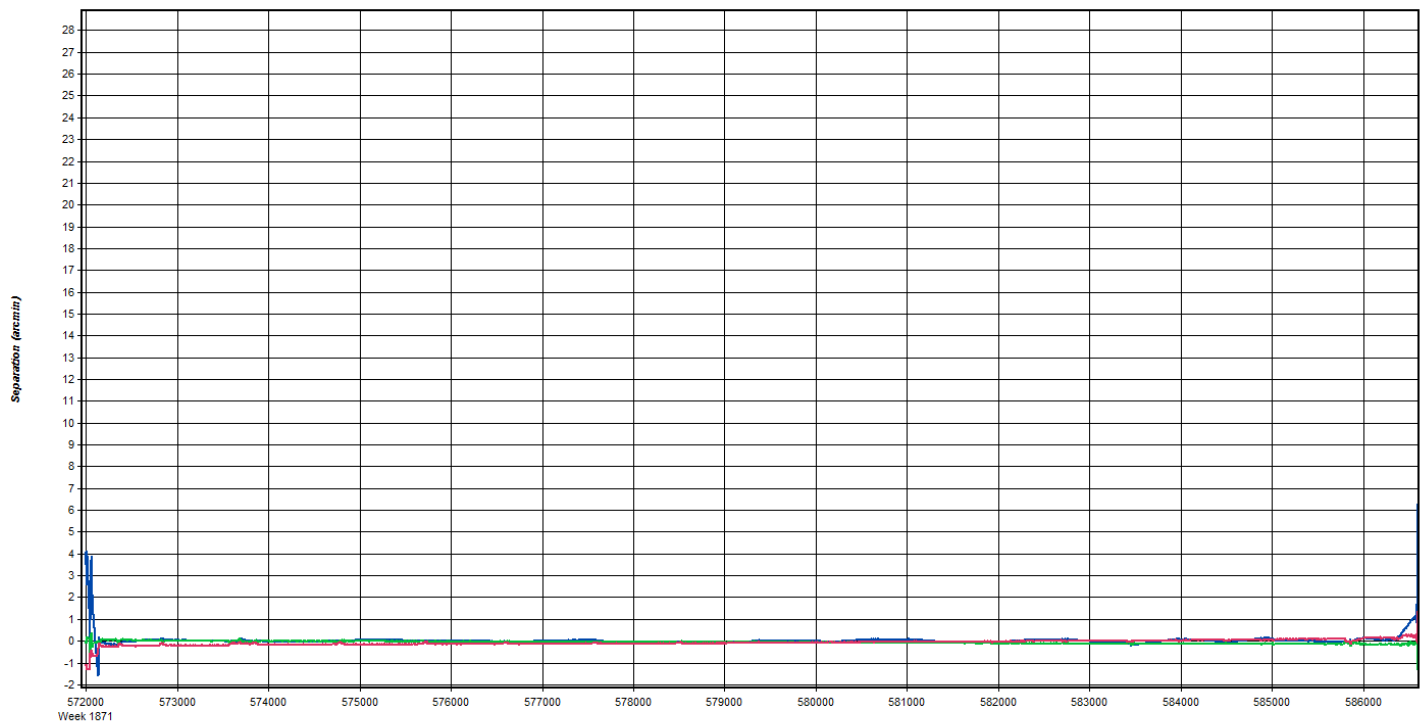






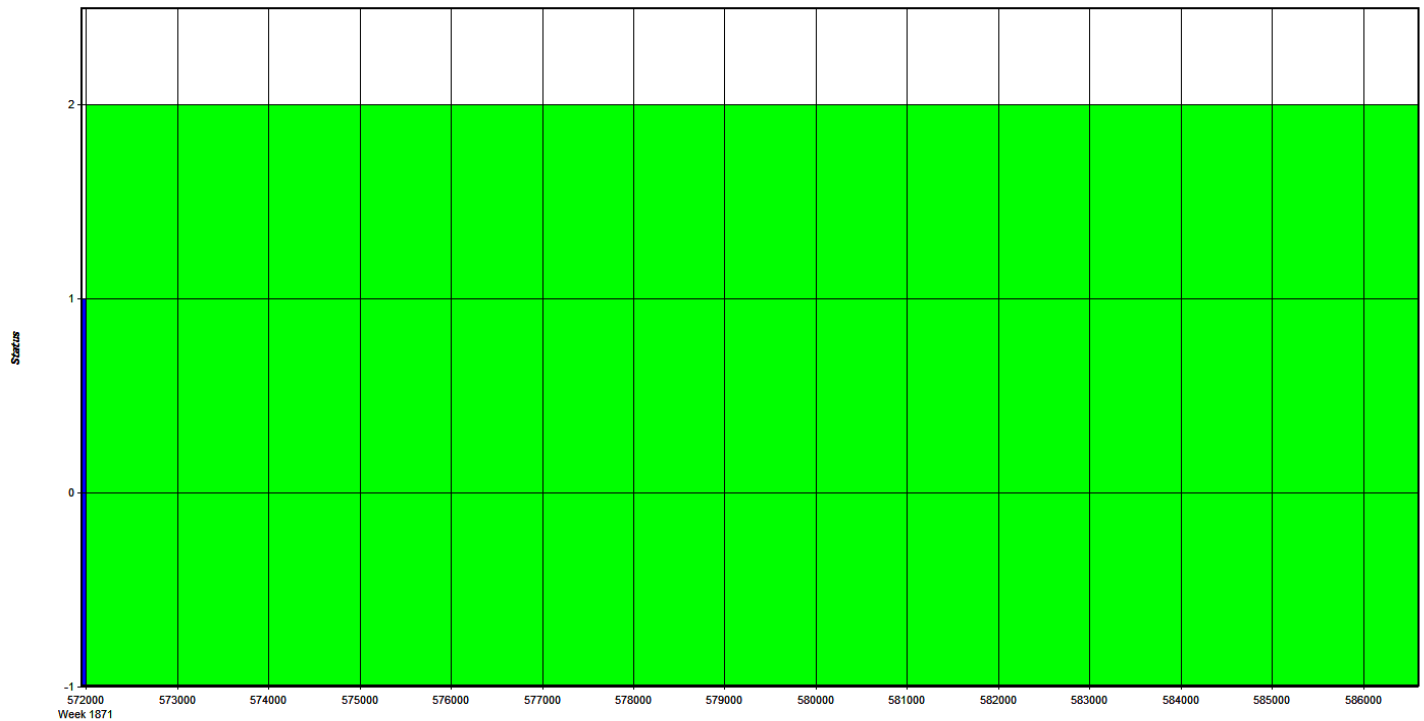
GPS Time (TOW, GMT zone)

— RMS — SD



GPS Time (TOW, GMT zone)

— Roll — Pitch — Heading/Az



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

Coordinate/Antenna Settings

Master Remote

Base Station
 1: VTD2_CORS Name: VTD2_CORS Disabled
 File: F:\Proc\26818_CT_River\F9R8\ConnecticutRiver_Keene_NH\R:

Coordinates
 Latitude: North 42 55 06.10798 Compute from PPP
 Longitude: West 72 32 06.44140 Enter Grid Values
 Ellipsoidal height: 98.040 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

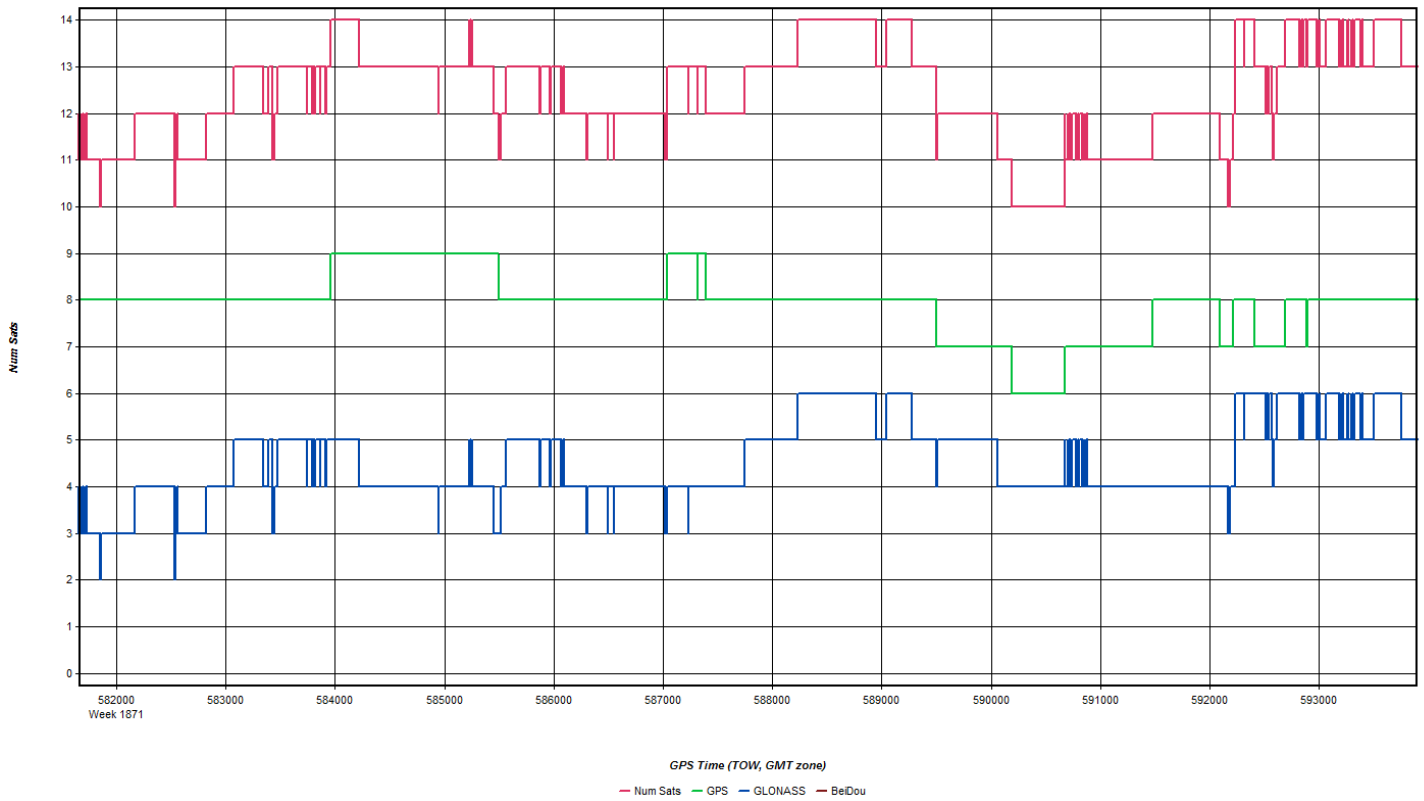
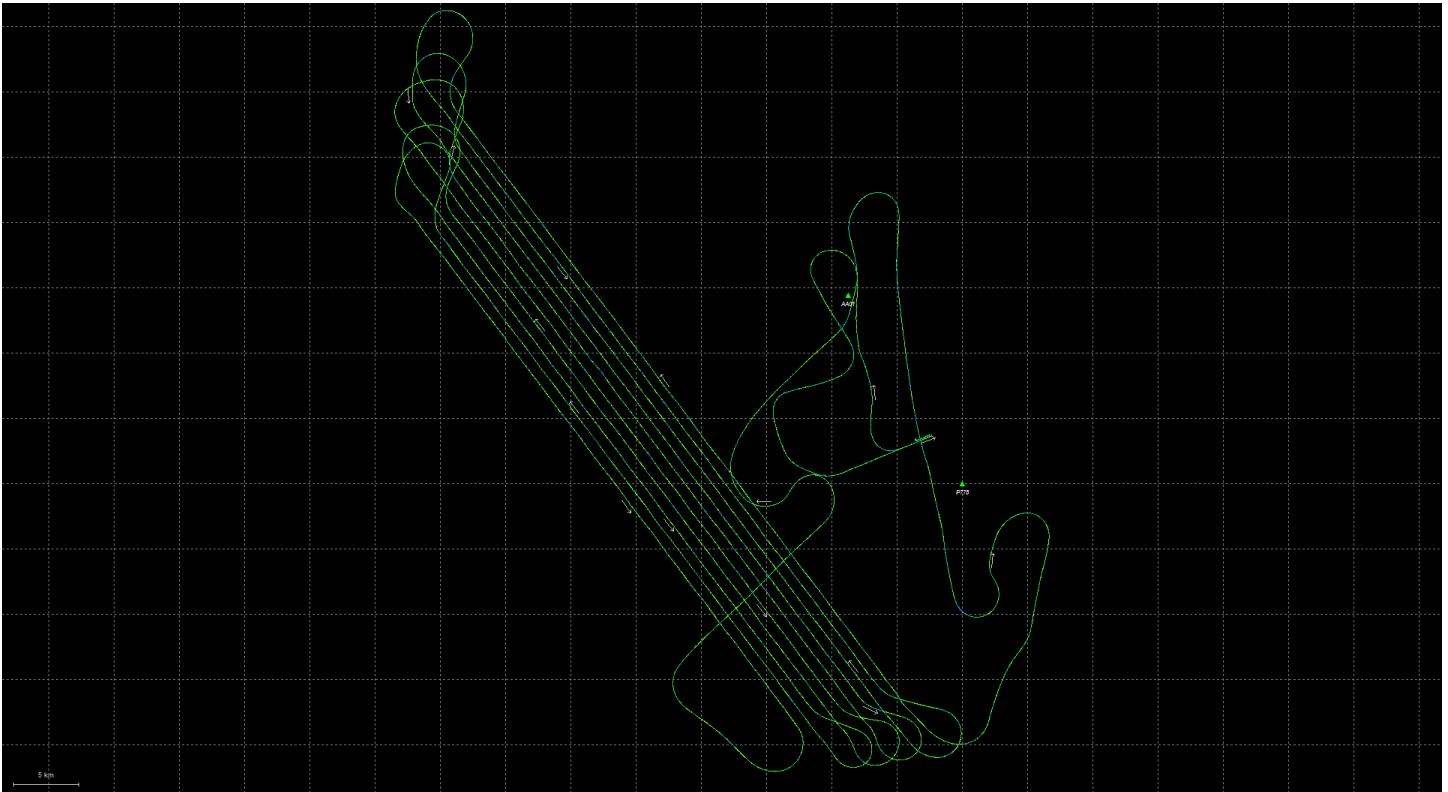
Antenna Height
 From station file: TRM55971.00, NONE View STA File
 Antenna profile: TRM55971.00 Info
 Measured height: 0.000 m
 ARP to L1 offset: 0.067 m
 Applied height: 0.000 m
 Measured to:
 ARP
 L1 Phase Centre
 Compute From Slant

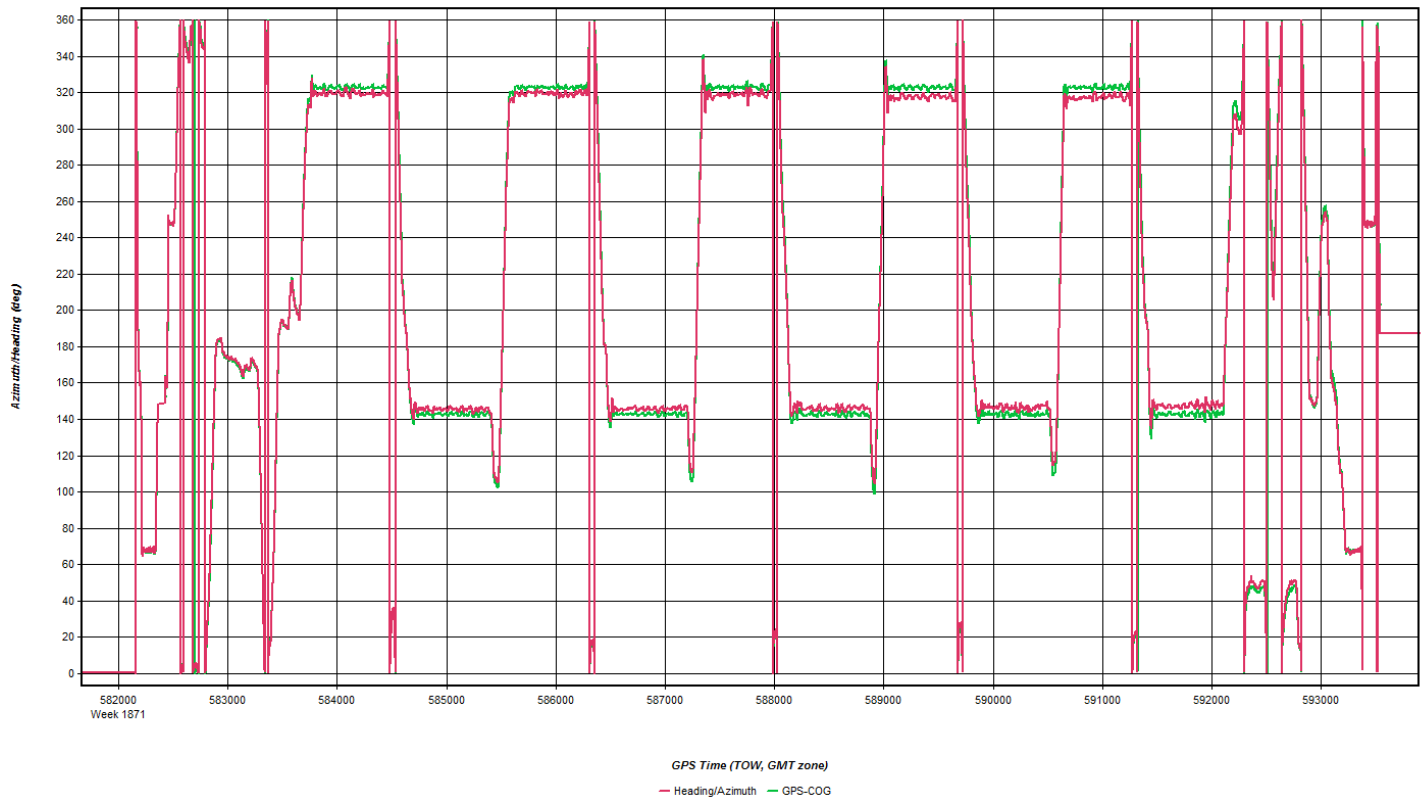
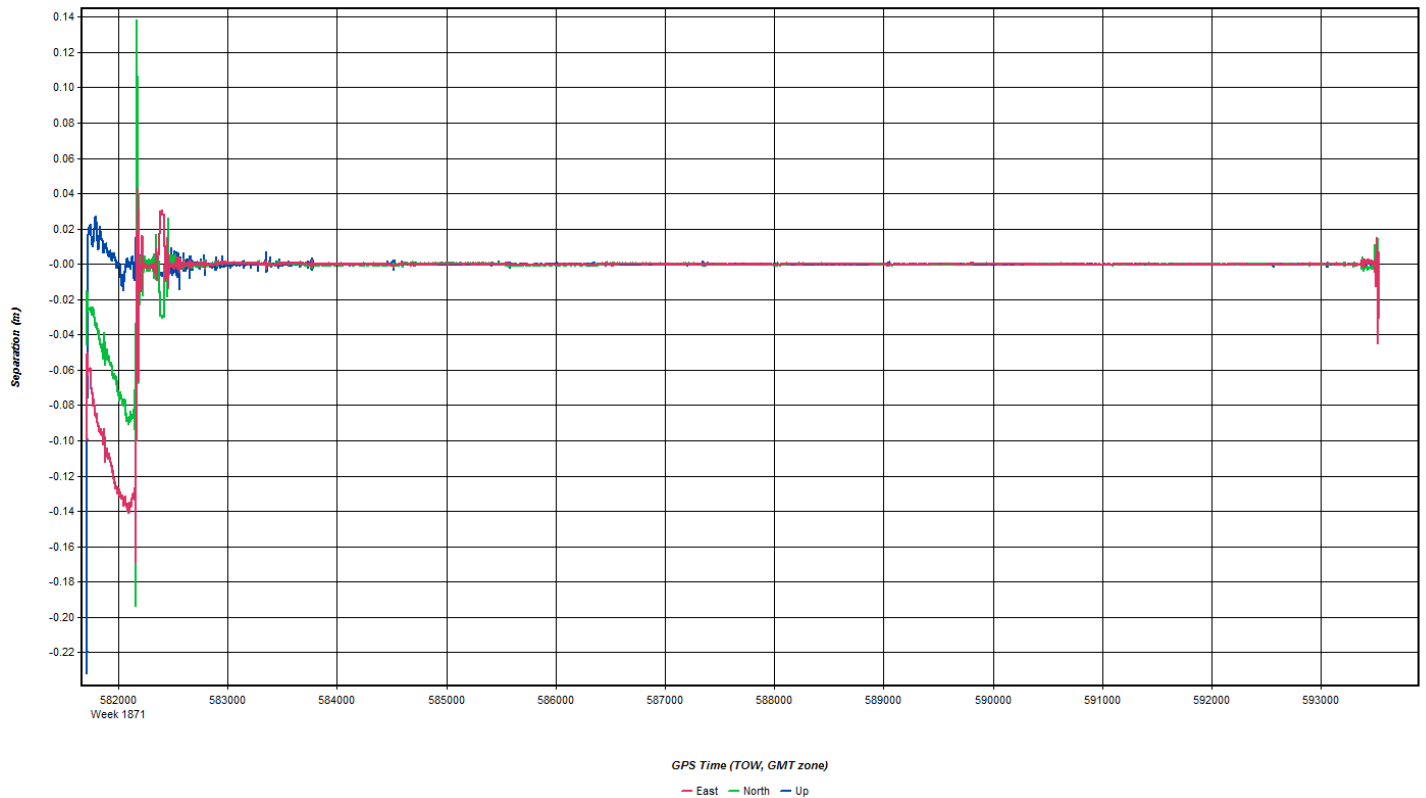
OK Cancel

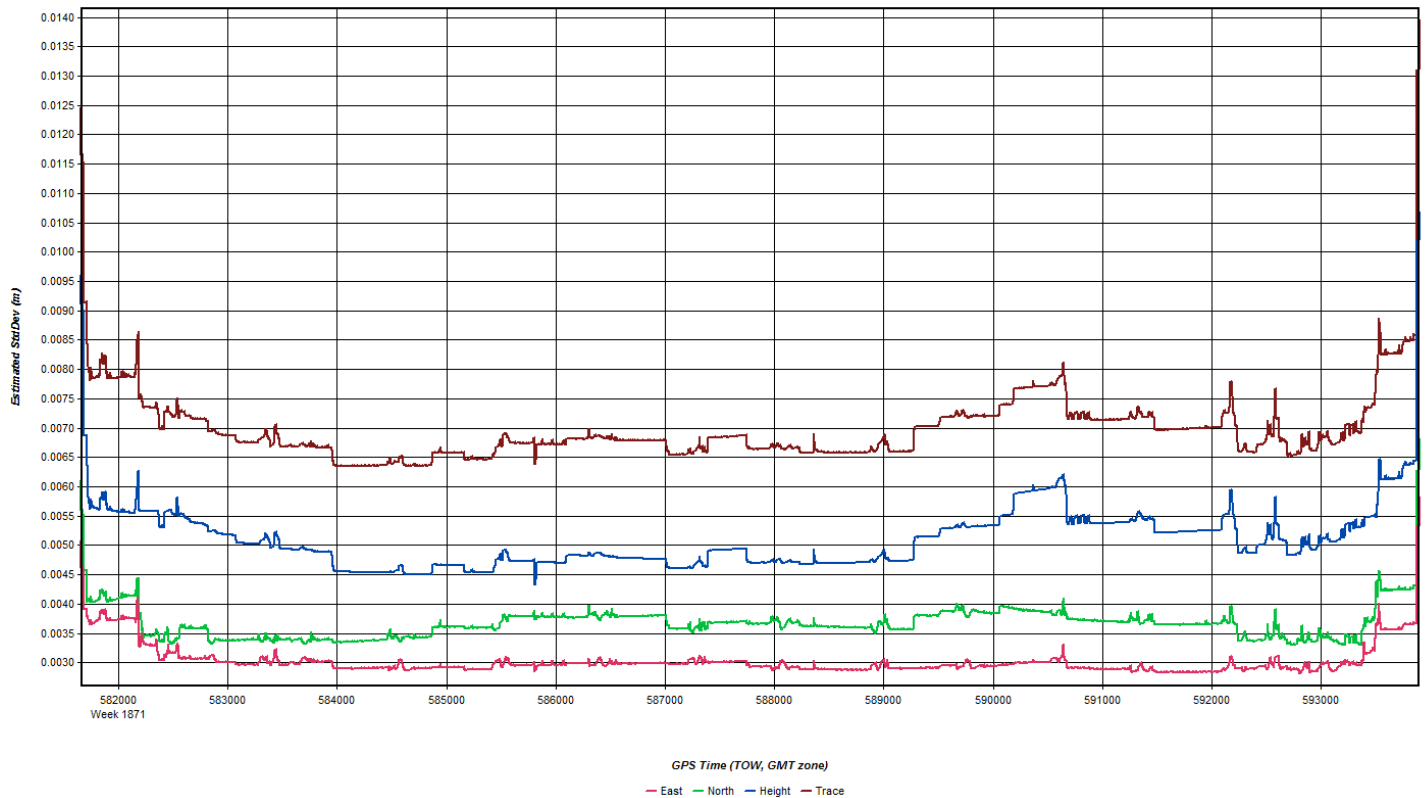
Flight Log

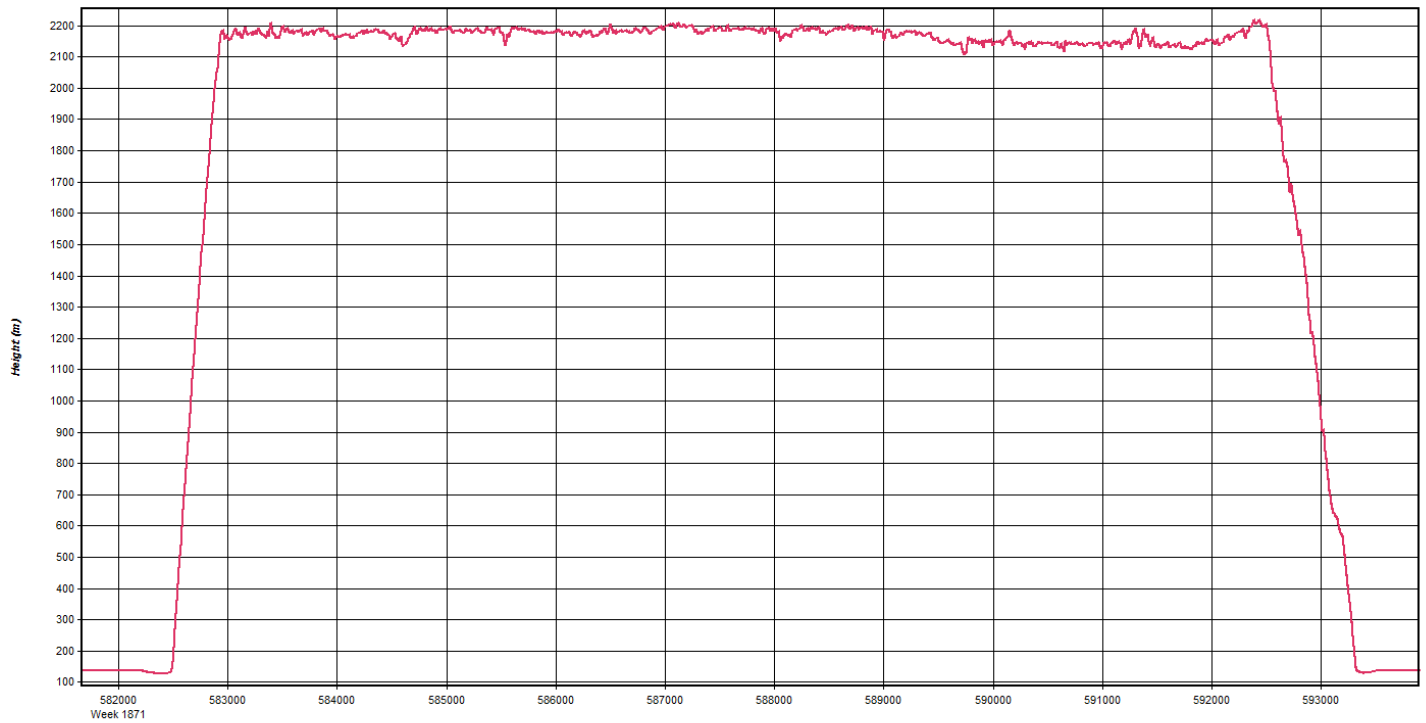
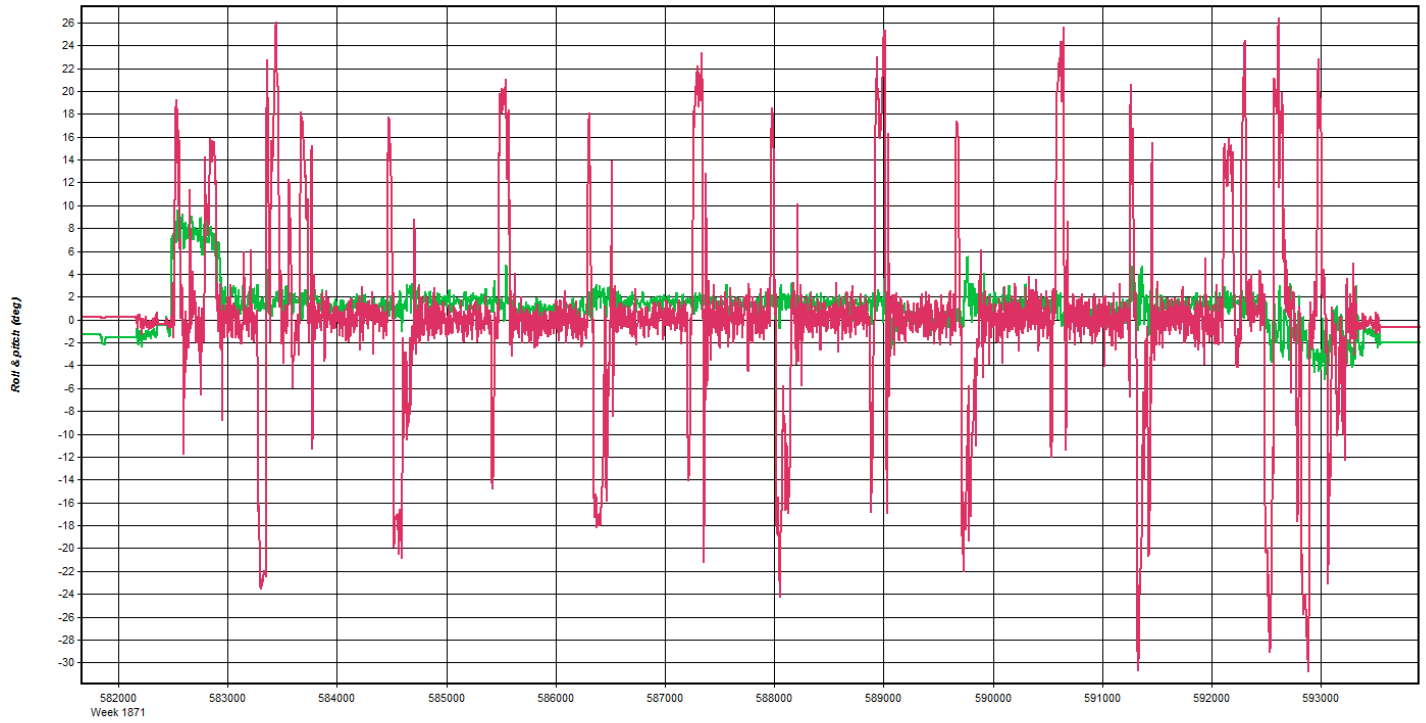
Leica LIDAR															
Mission Date		12/21/2015		GPS Altitude		7600		Mission ID		1		Mission Name		Woolpert	
Operator		N11002		GPS Altitude		2875.3		Mission ID		1024501		Mission Name		WOOLPERT BH	
Date		ALS-2108		GPS Altitude		2876.3		Mission ID		1024501		Mission Name		WOOLPERT BH	
Altitude		200.5		GPS Altitude		30.3		Mission ID		1024501		Mission Name		WOOLPERT BH	
Scan Rate (Hz)		39.4		Pulse Rate (Hz)		263		Mission ID		100		Mission Name		WOOLPERT BH	
Altitude		40		Pulse Rate (Hz)		263		Mission ID		100		Mission Name		WOOLPERT BH	
Altitude		150		Pulse Rate (Hz)		263		Mission ID		100		Mission Name		WOOLPERT BH	
Line #		Dir.		Line Start Time		Line End Time		Time On Line		VA		RCP		RCP	
Type		n/a		n/a		n/a		n/a		n/a		n/a		n/a	
243	N	15:24:56	15:38:01	0:13:05	18	0.6	0.9								
244	S	15:40:40	15:53:35	0:12:55	15	0.7	1.3								
245	N	15:55:59	16:08:24	0:12:25	15	0.7	1.3								
246	S	16:11:00	16:24:04	0:13:04	17	0.7	1.1								
247	N	16:28:15	16:40:17	0:12:02	16	0.7	1.2								
248	S	16:42:45	16:54:25	0:11:40	18	0.6	1								
249	N	16:56:19	17:07:52	0:11:33	18	0.6	1								
250	S	17:10:34	17:22:50	0:12:16	17	0.7	1.2								
251	N	17:25:12	17:36:07	0:10:55	18	0.6	1.1								
252	S	17:40:23	17:50:28	0:10:05	18	0.6	1.2								
253	N	17:53:10	18:02:16	0:09:06	18	0.7	1.1								
254	S	18:05:05	18:12:00	0:06:55	18	0.7	1.1								
255	N	18:14:56	18:20:24	0:05:28	18	0.6	1.2								
256	S	18:26:56	18:27:21	0:00:25	18	0.6	1.2								
x	W	18:30:21	18:33:01	0:02:40	18	0.6	1								
↑ Times entered are Zulu / GMT. ↑															
Additional Comments															
GPS began Logging At: 14:52:55															
V CORRS: 15:04:55															
Verify s-Turns Before Mission (Y/N) X N (N)															
Pilot Cady Daniels															
cross-flight to cover flown area															
V CORRS: 18:40:50															
18:48:15 again after circles...															
Page 1															
ALS 70-2															

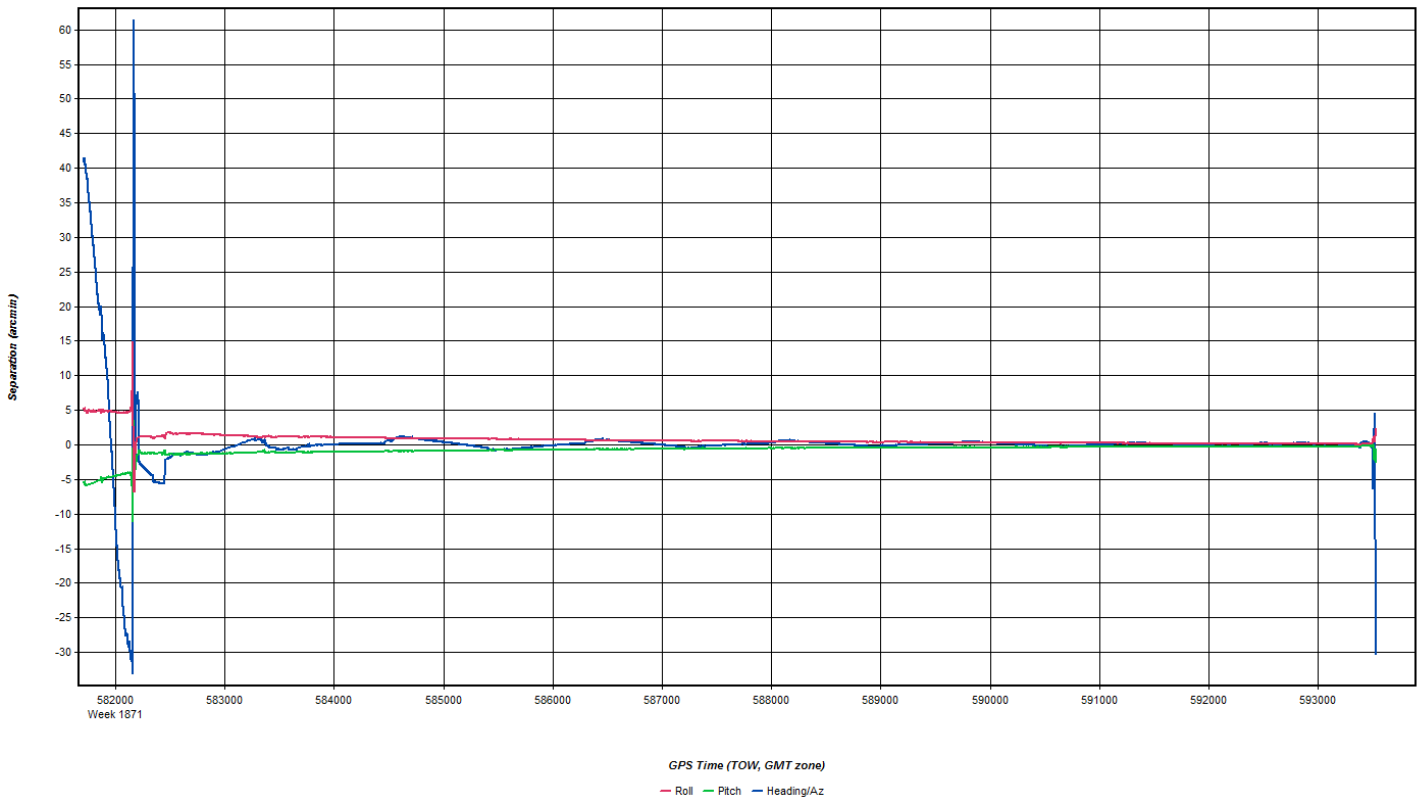
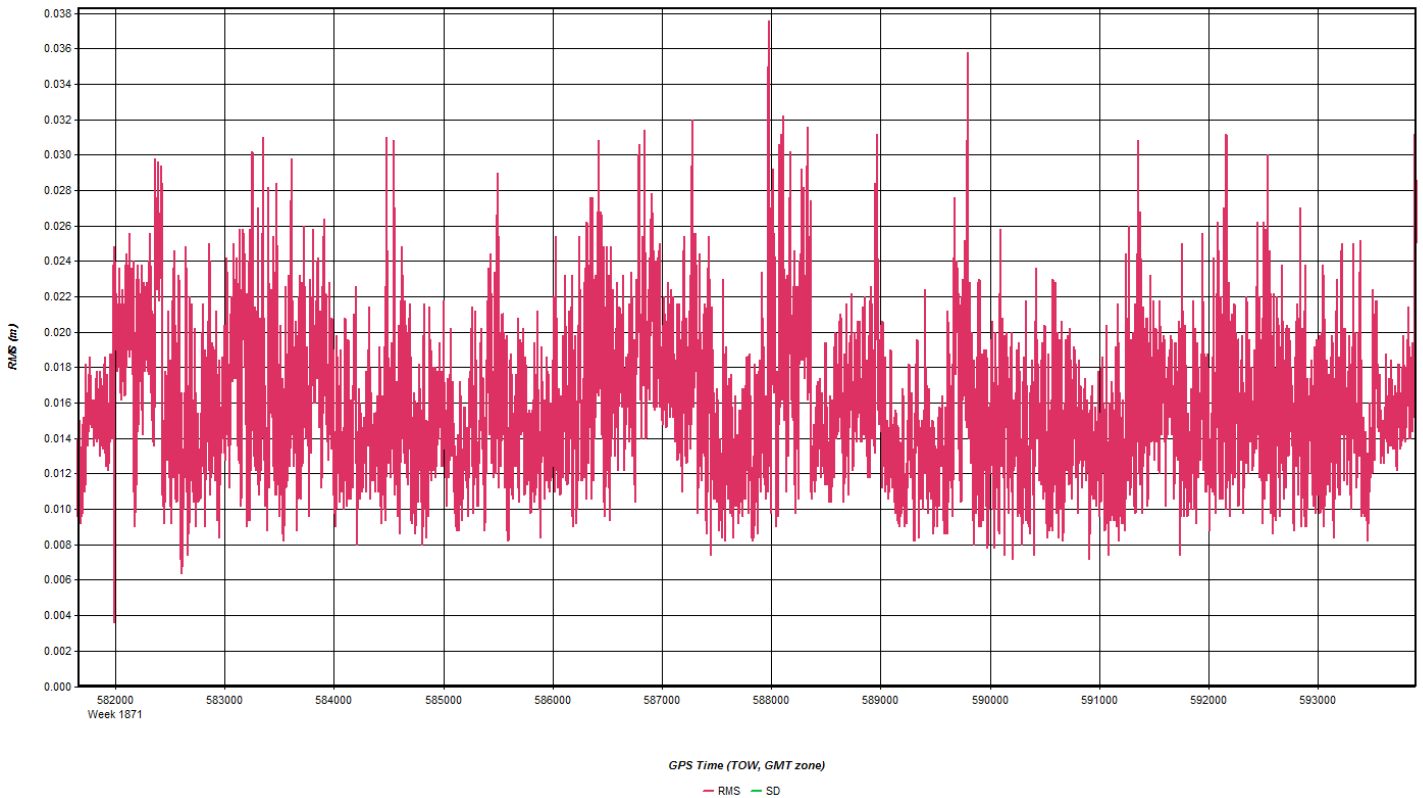
Nov 21, 2015-B (N6GR, SN7161)

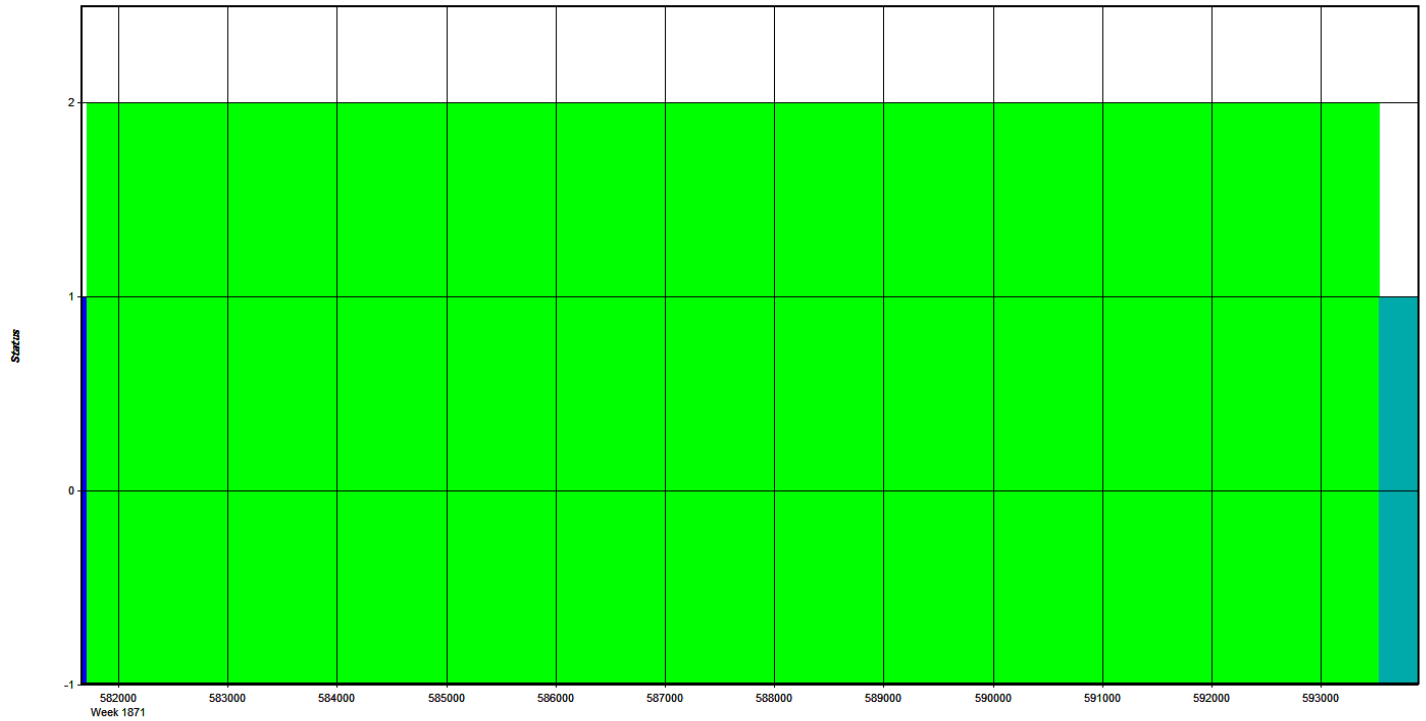












GPS Time (TOW, GMT zone)
 - Float - Forward Fixed - Reverse Fixed - Fixed (2 or more)

Coordinate/Antenna Settings

Master Remote

Base Station
 2: AA01 Name: AA01 Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\RAW_Data\SRE8\

Coordinates
 Latitude: North 43 40 21.87219 Compute from PPP
 Longitude: West 71 29 10.54110 Enter Grid Values
 Ellipsoidal height: 221.099 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

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

Master Remote

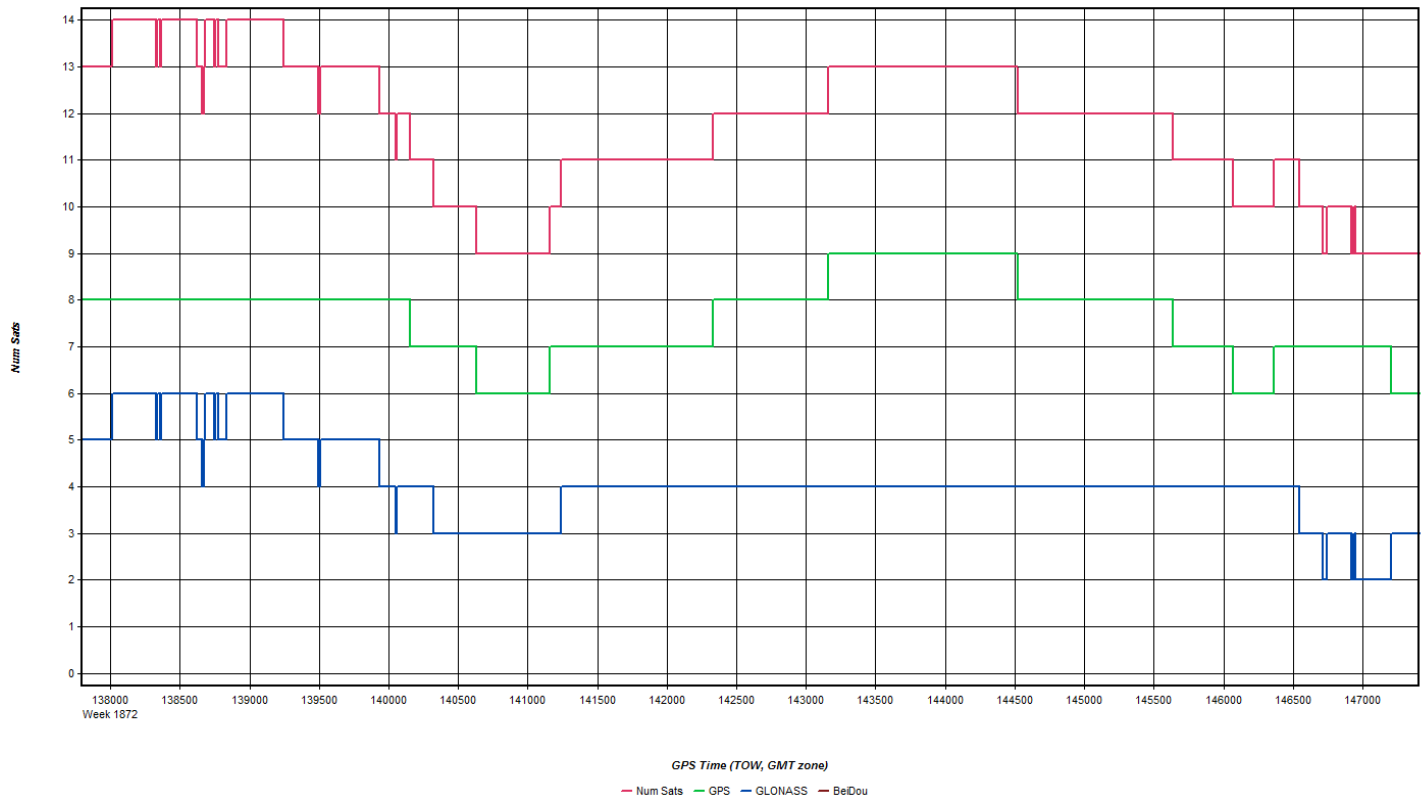
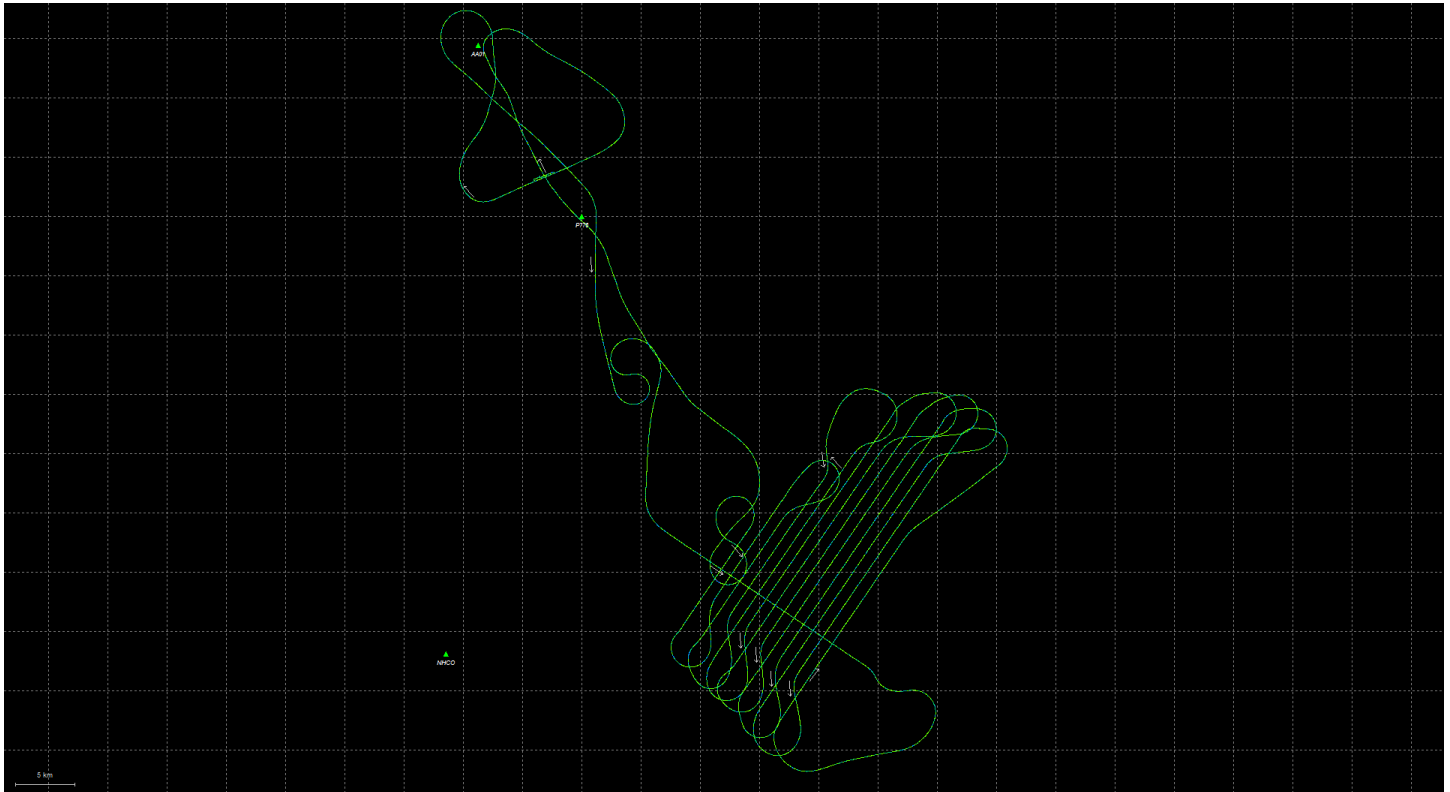
Base Station
 1: P776 Name: P776 Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\RAW_Data\SRE8\

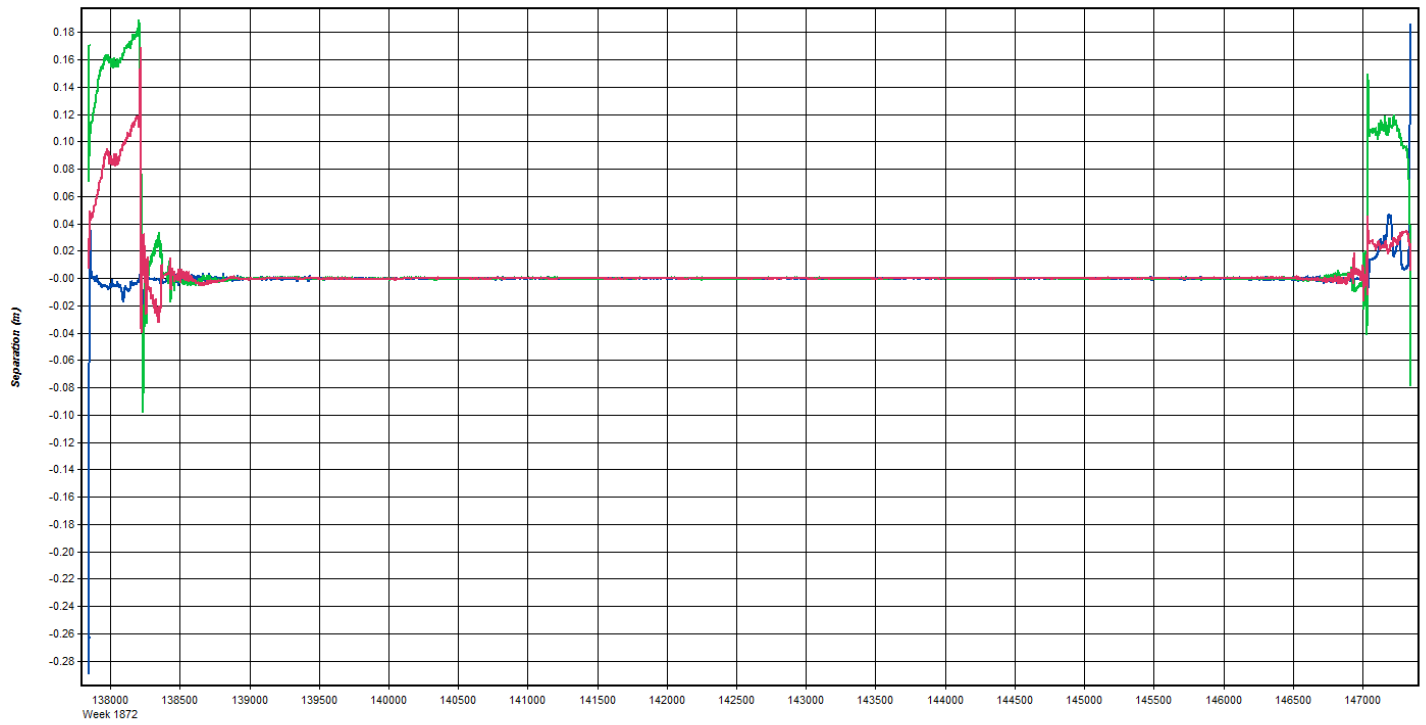
Coordinates
 Latitude: North 43 32 35.72074 Compute from PPP
 Longitude: West 71 22 42.78910 Enter Grid Values
 Ellipsoidal height: 478.115 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

Antenna Height
 From station file: TRM29659.00, SCIT View STA File
 Antenna profile: TRM29659.00, SCIT Info
 Measured height: 0.008 m
 ARP to L1 offset: 0.086 m
 Applied height: 0.094 m
 Measured to:
 ARP
 L1 Phase Centre
 Compute From Slant

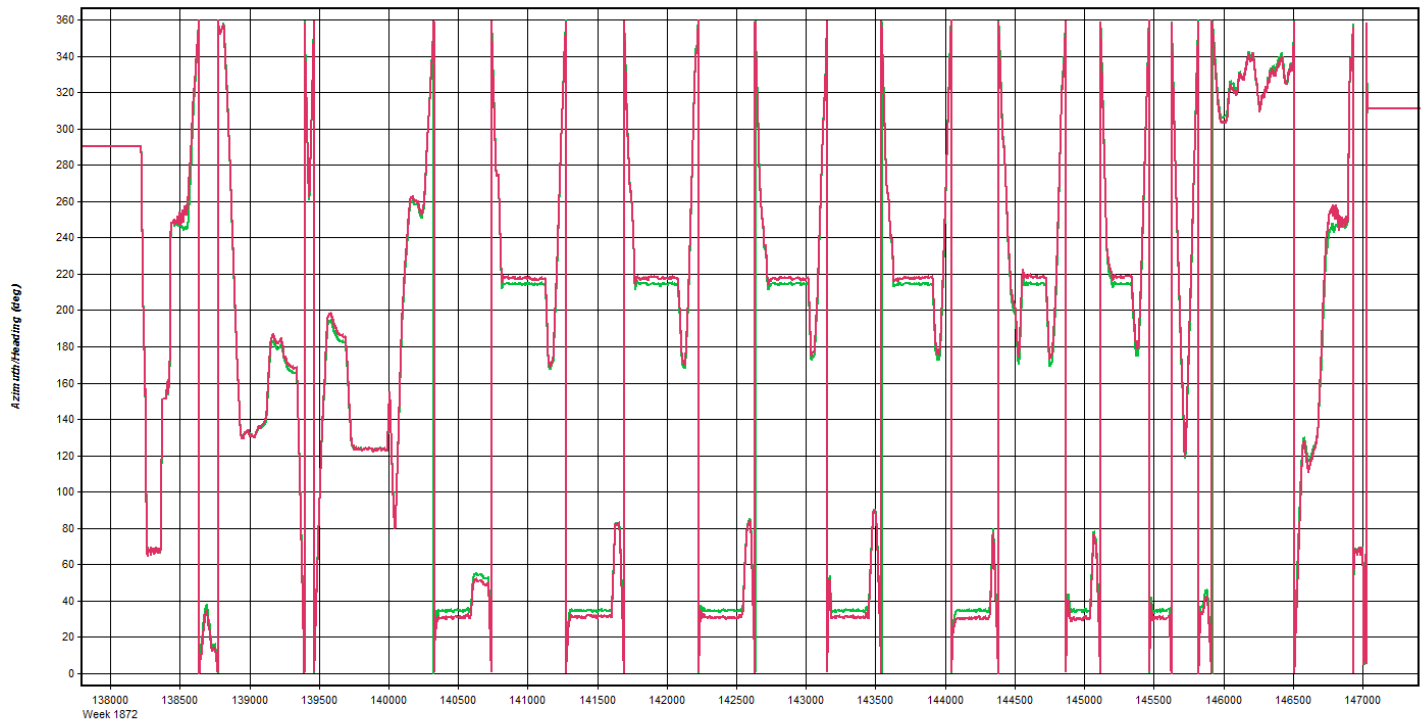
OK Cancel

Nov 23, 2015-A (N6GR, SN7161)

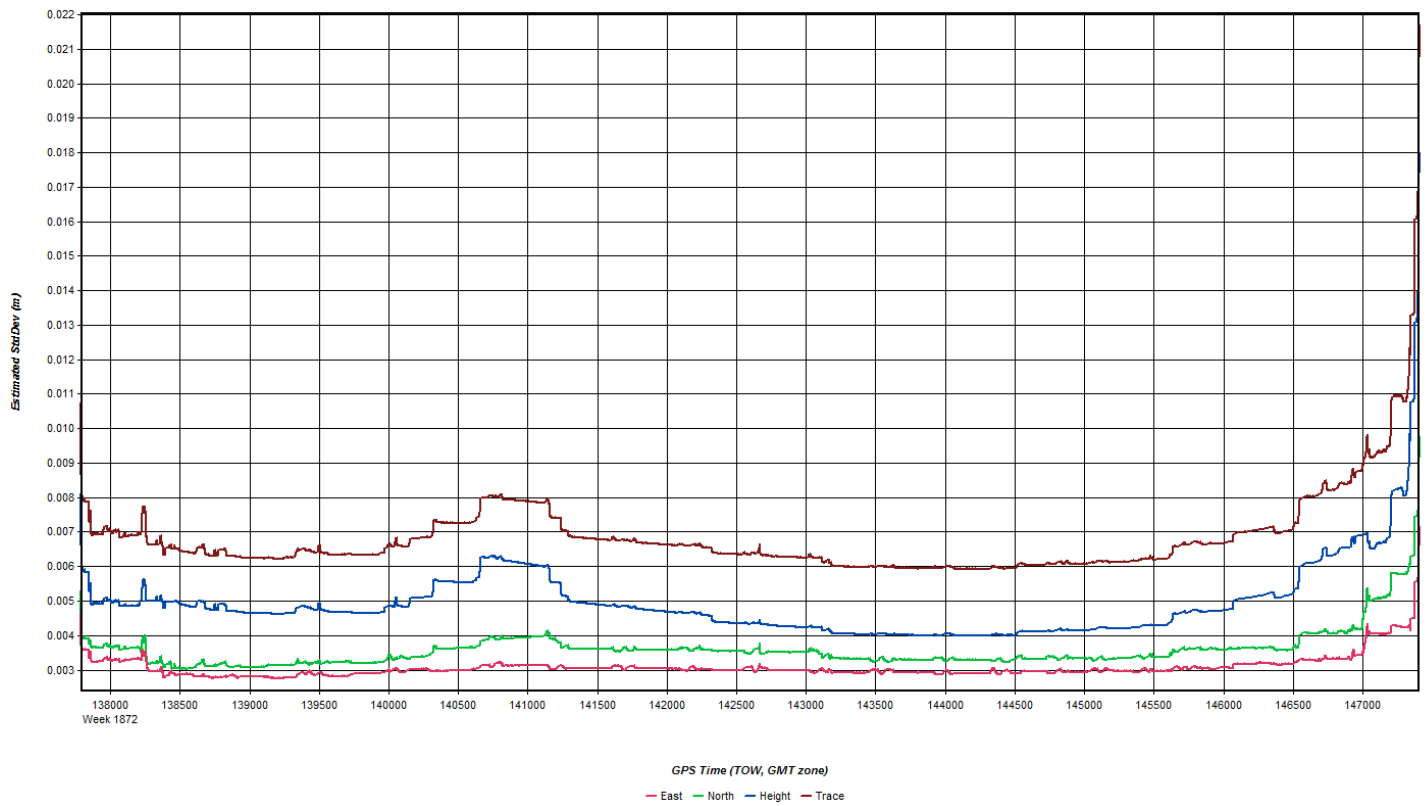
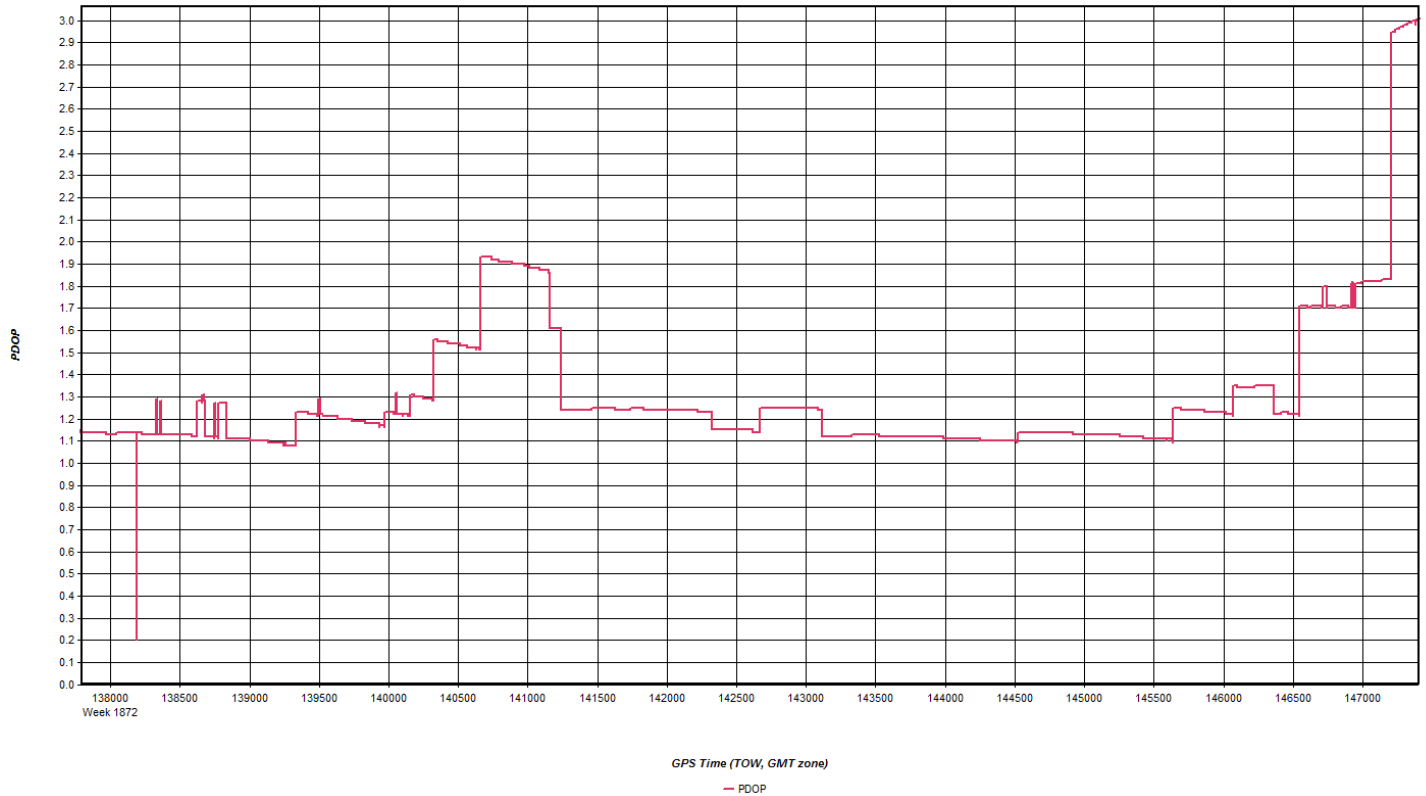


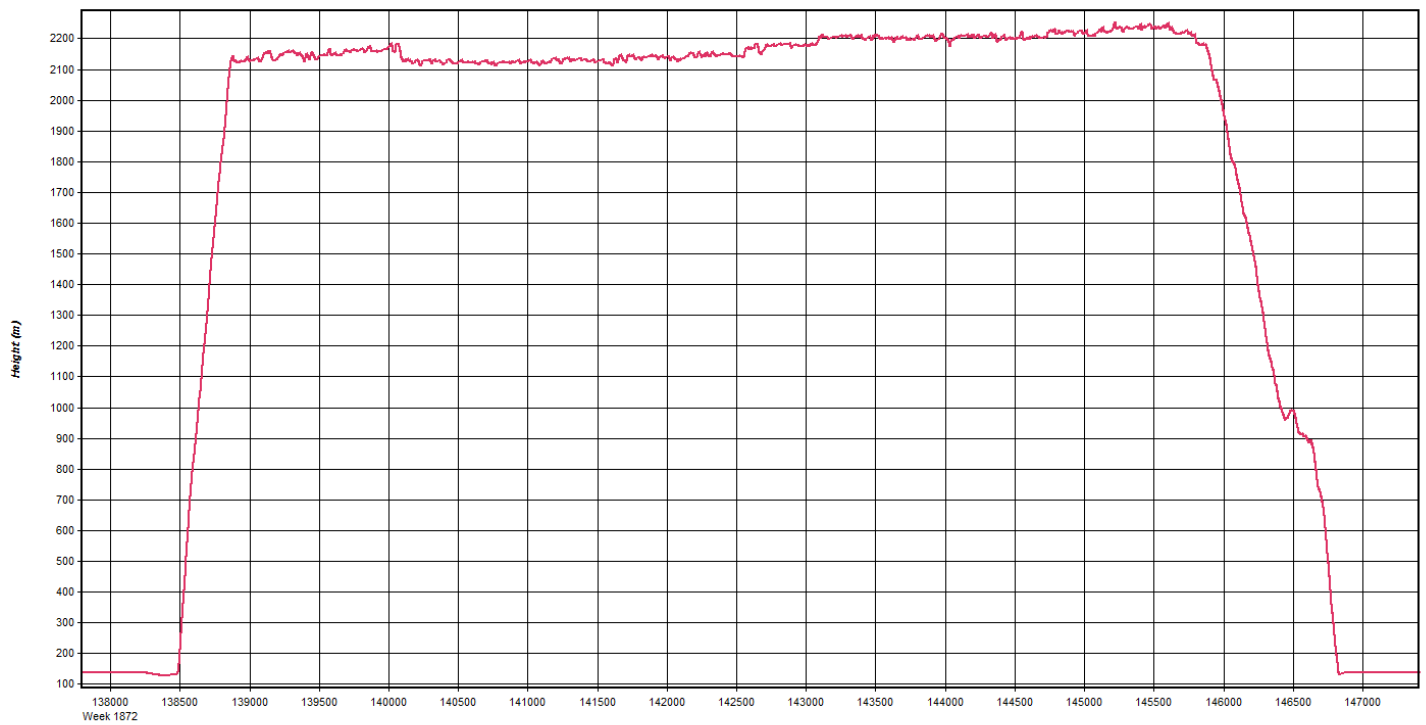
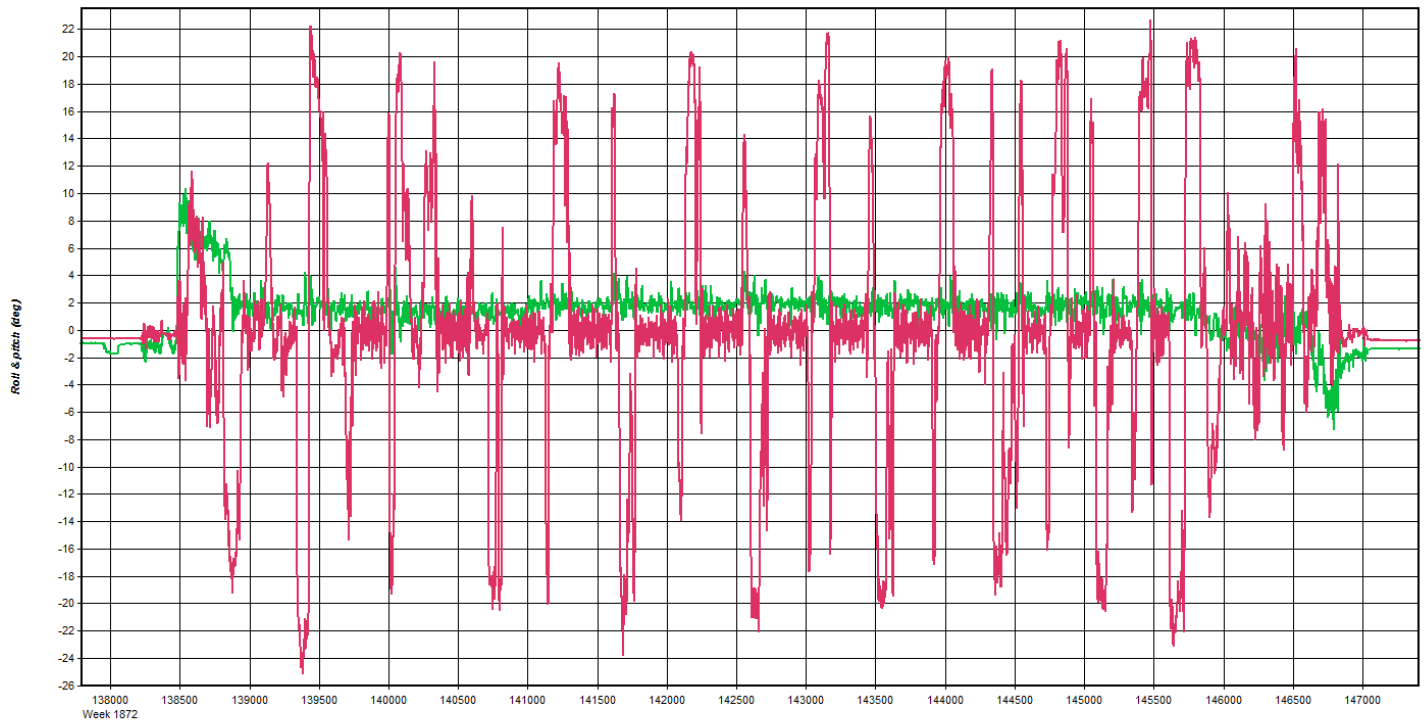


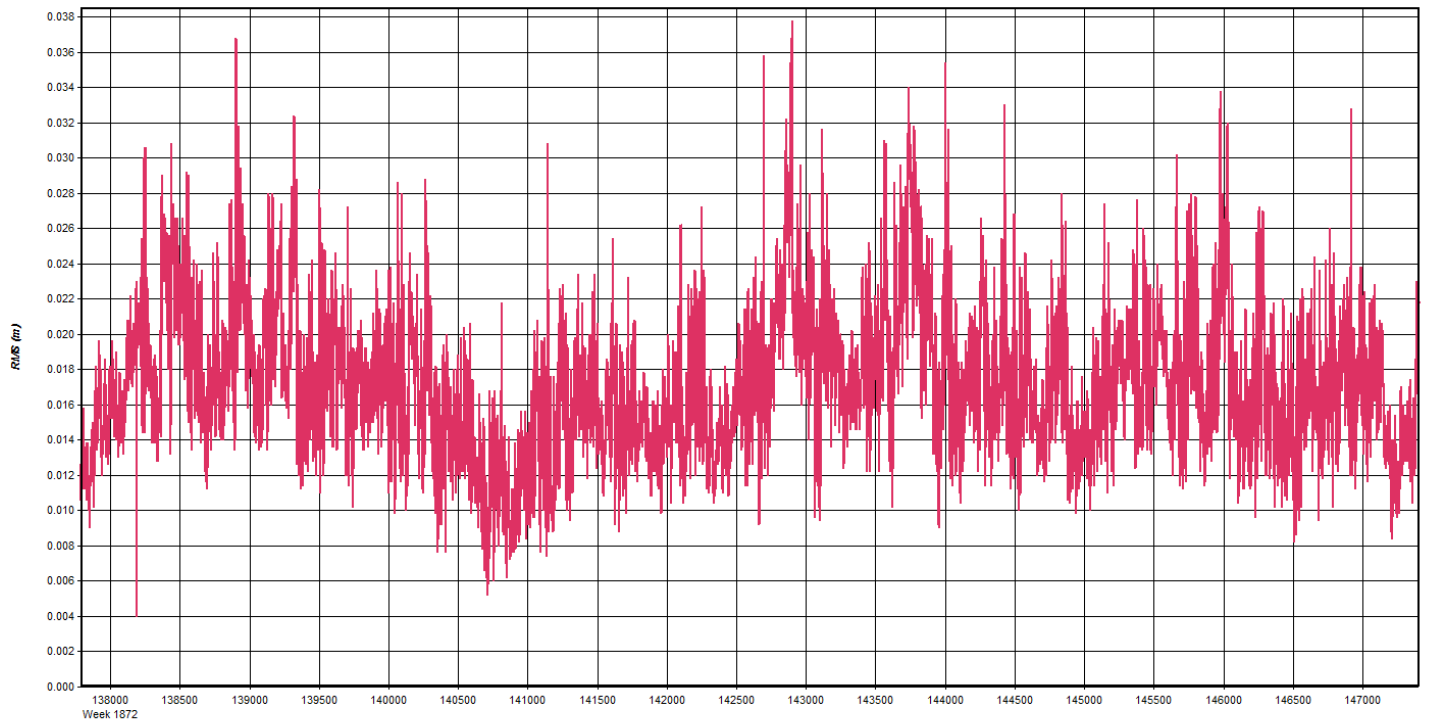
GPS Time (TOW, GMT zone)
— East — North — Up



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

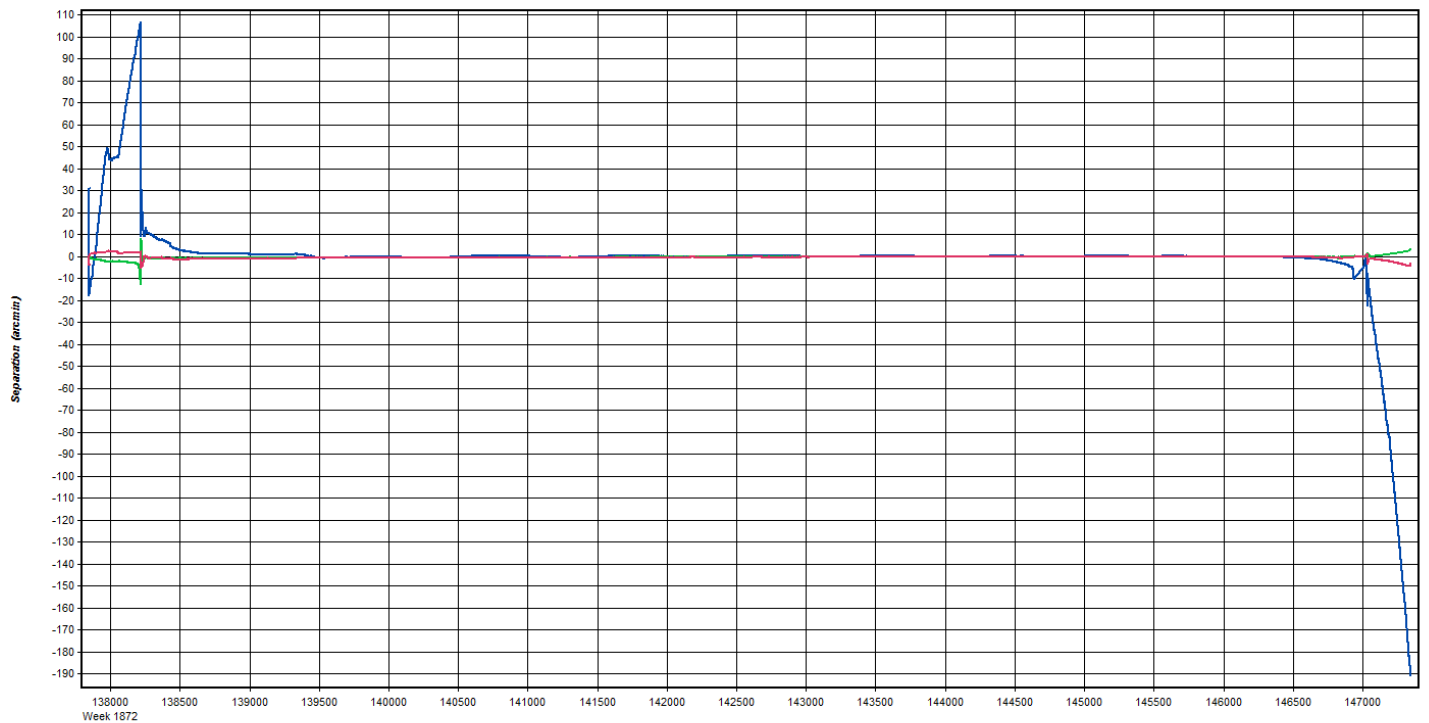






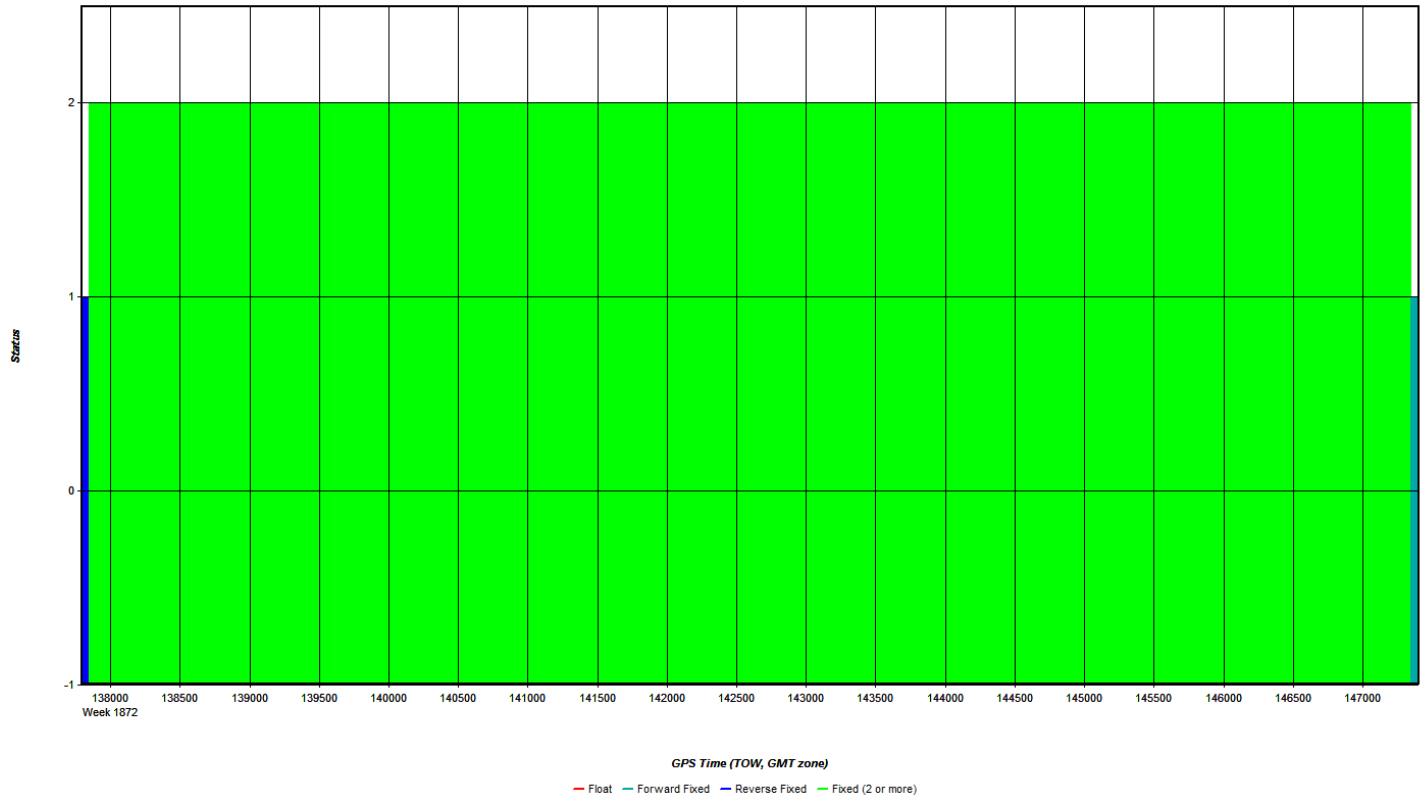
GPS Time (TOW, GMT zone)

— RMS — SD



GPS Time (TOW, GMT zone)

— Roll — Pitch — Heading/Az



Coordinate/Antenna Settings

Master Remote

Base Station
 1: P776 Name: P776 Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\RAW_Data\SMW\

Coordinates
 Latitude: North 43 32 35.72074 Compute from PPP
 Longitude: West 71 22 42.78910 Enter Grid Values
 Ellipsoidal height: 478.115 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

Antenna Height
 From station file: TRM29659.00, SCIT View STA File
 Antenna profile: TRM29659.00, SCIT Info

Measured height: 0.008 m
 ARP to L1 offset: 0.086 m
 Applied height: 0.094 m

Measured to
 ARP
 L1 Phase Centre
 Compute From Slant

OK Cancel

Coordinate/Antenna Settings

Master Remote

Base Station
 3: AA01 Name: AA01 Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\RAW_Data\SMW\

Coordinates
 Latitude: North 43 40 21.87219 Compute from PPP
 Longitude: West 71 29 10.54110 Enter Grid Values
 Ellipsoidal height: 221.099 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

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

Master Remote

Base Station
 2: NHCO Name: NHCO Disabled
 File: S:\LIDAR\26818_CT_River\26818_CT_River\RAW_Data\SMW\

Coordinates
 Latitude: North 43 12 46.19587 Compute from PPP
 Longitude: West 71 31 11.47551 Enter Grid Values
 Ellipsoidal height: 89.430 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

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

Base Station Log

GPS OBSERVATION LOG

Station ID <u>N/A</u>	Date <u>11, 23, 15</u>
Project Number <u>20818</u>	Julian Date _____
Project Name <u>USGS Winnepesaukee</u>	Start Time <u>: 13:40:2</u>
Rcvr. Type <u>Novatel Trimble R7</u>	Stop Time <u>: 17:10:2</u>
Rcvr. S/N <u>5033k17587</u>	Rcvr. File Name <u>75873270.T01</u>
Antenna Type <u>Novatel Trimble Zephyr Geodetic Model 2</u>	Observer <u>E. Dyreson</u>
Antenna S/N <u>1441101329</u>	

New or Existing Mon. New Existing
 Photo Taken: Yes No
 Monument Type: _____
 Spike PK Nail AM Washer
 Other _____

Height Readings:
 (Top of Monument to Bottom of Ground Plane)

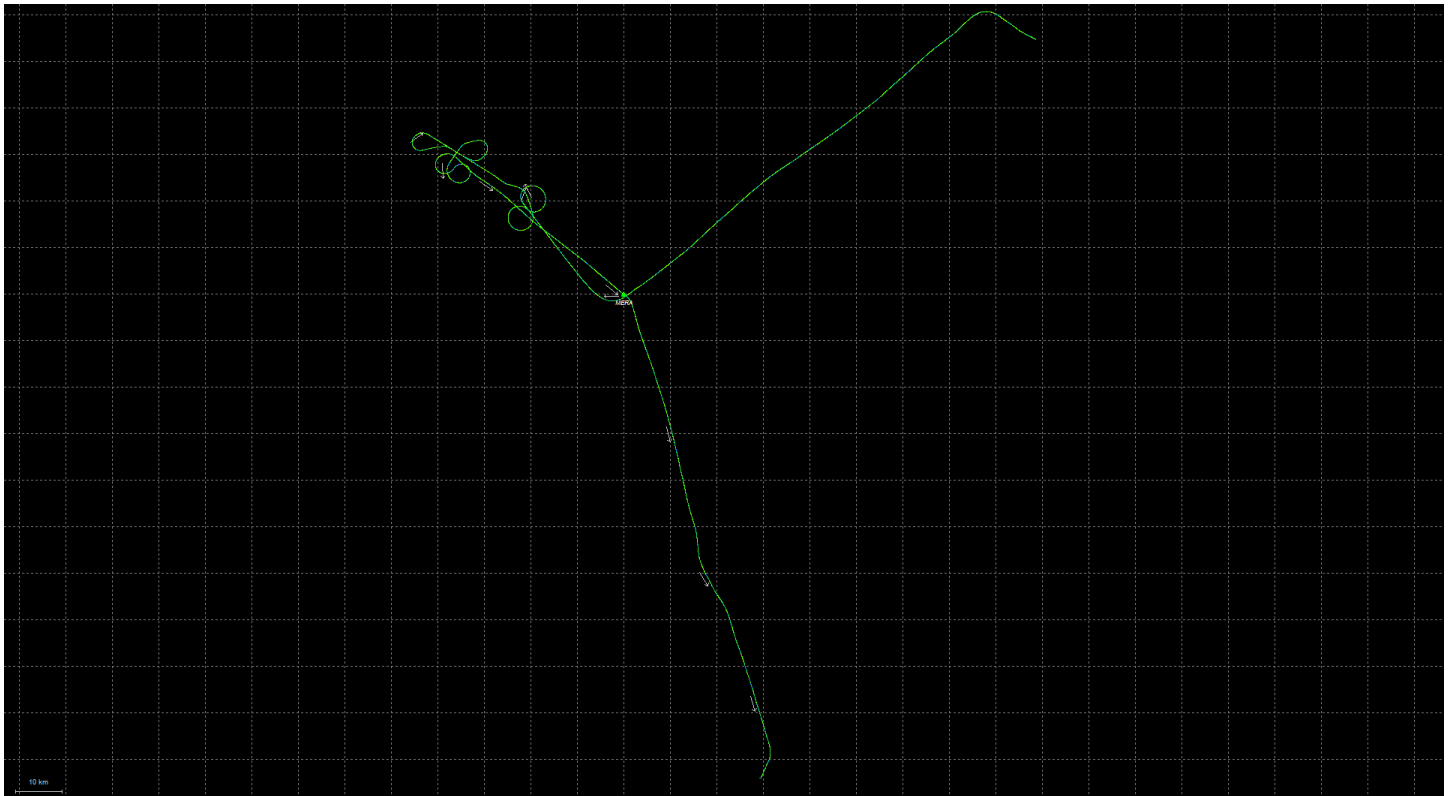
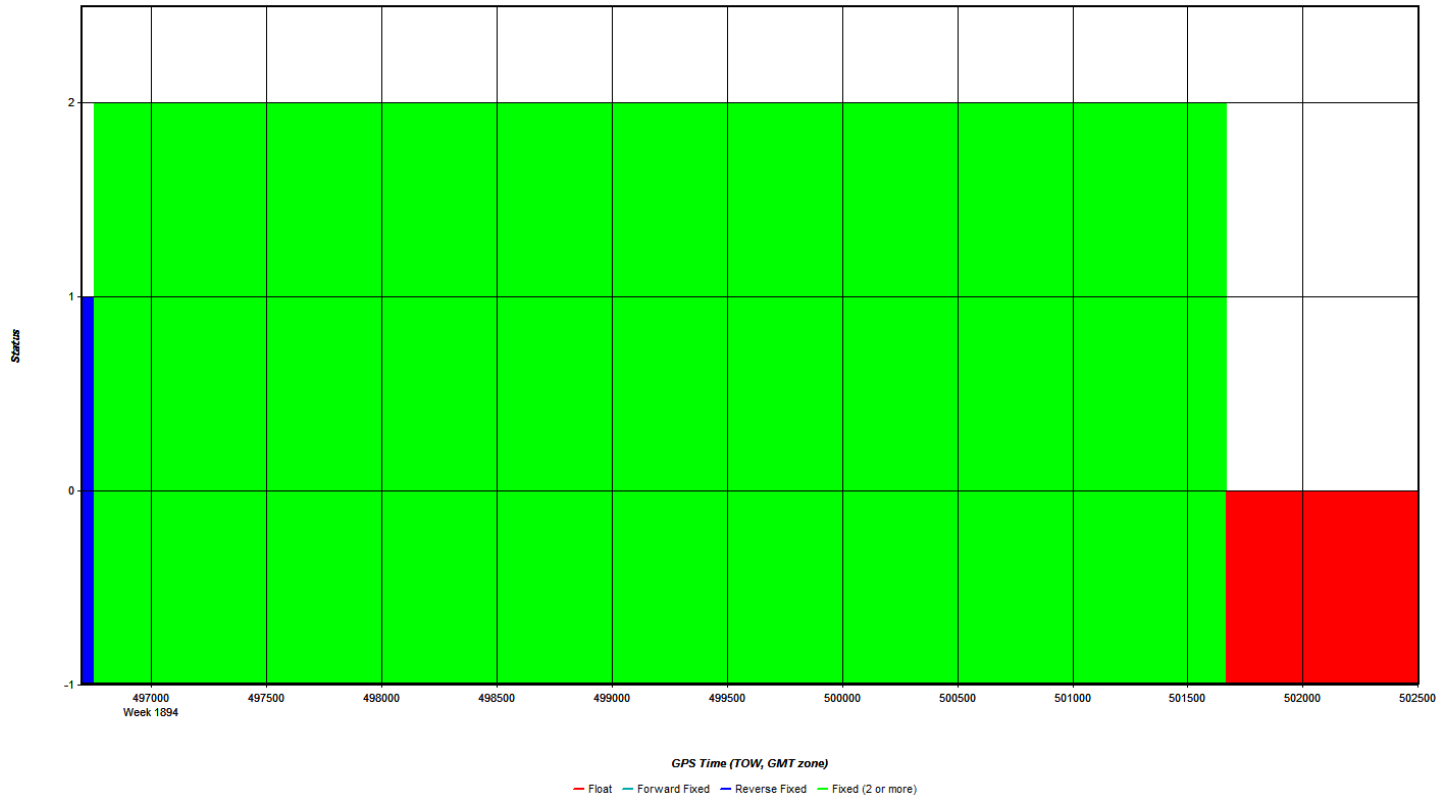
Start	_____ M.	<u>4.52</u> Ft.
Stop	_____ M.	<u>4.52</u> Ft.
Mean	_____ M.	<u>4.52</u> Ft.

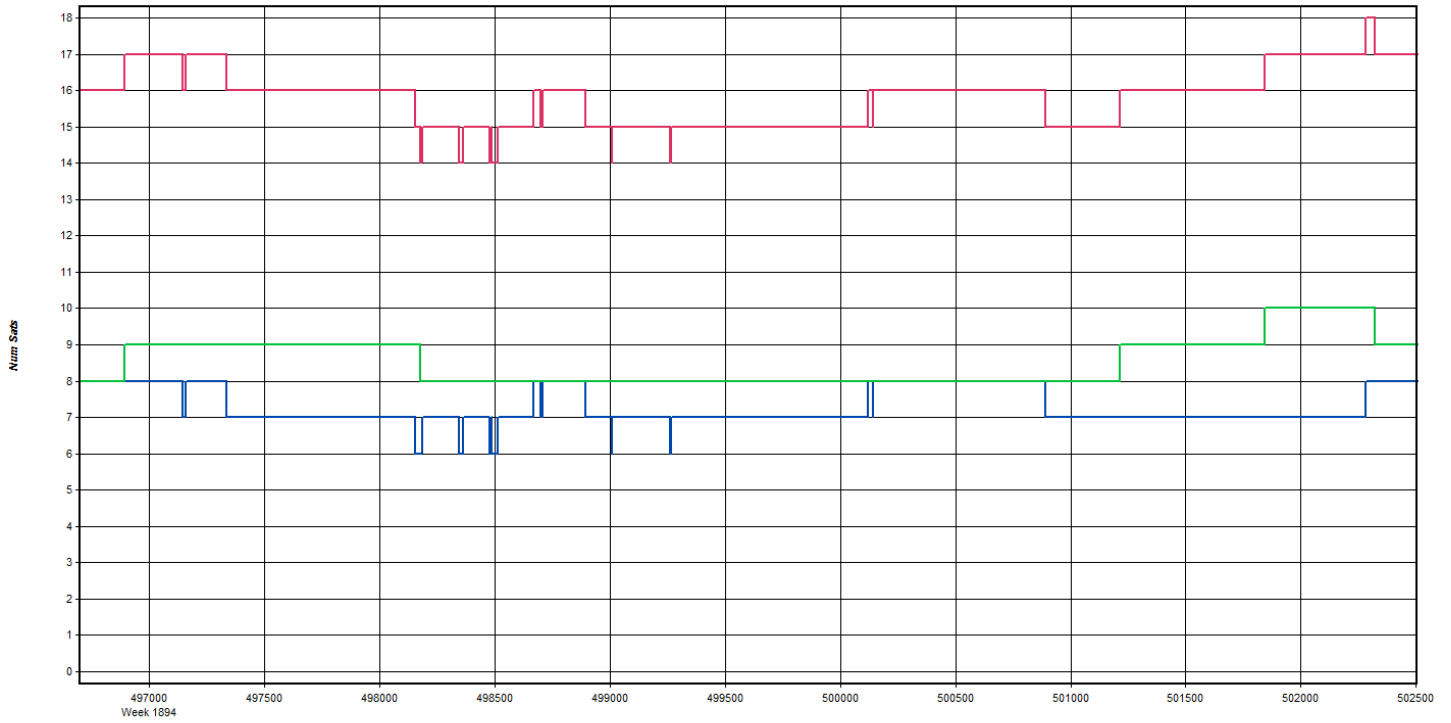
At KLCI airport

Monument Sketch and Notes:

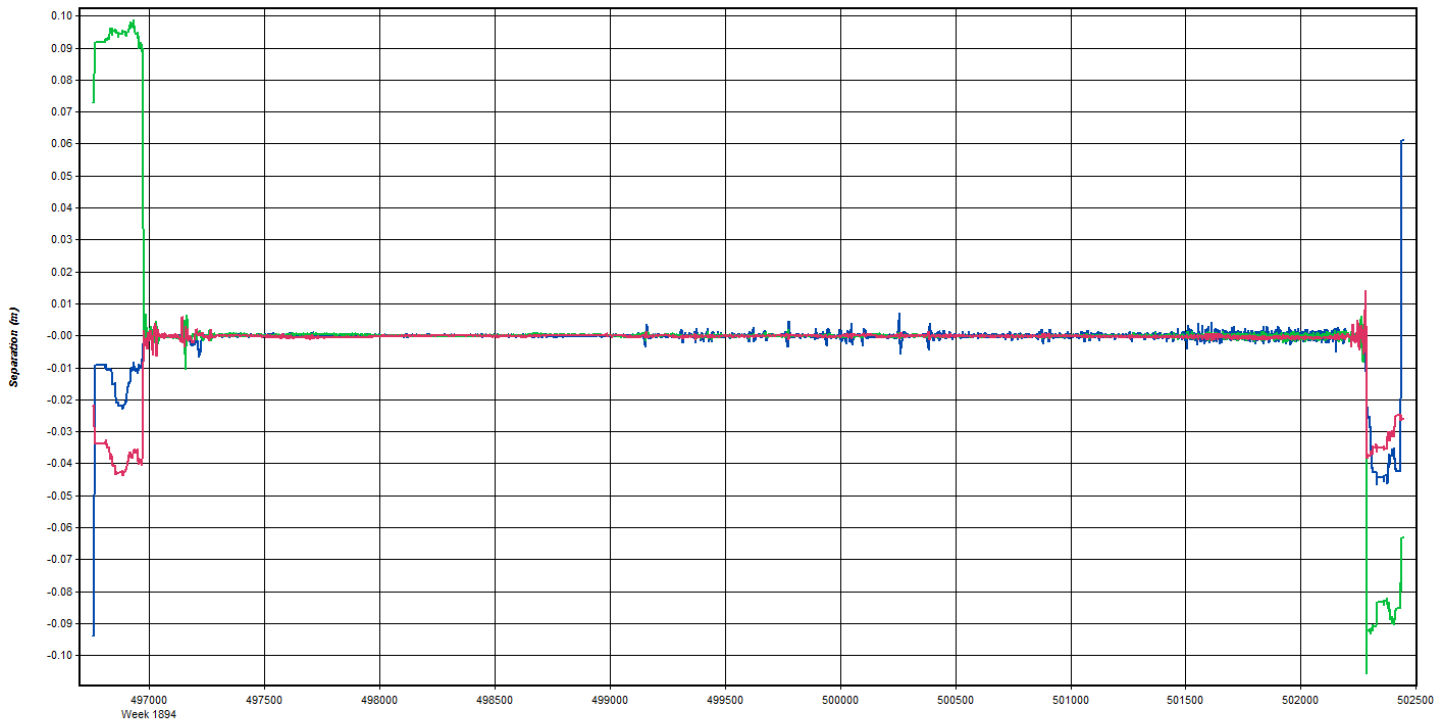
Generated by CamScanner

Apr 29, 2016-B (N812TB, SN7161)

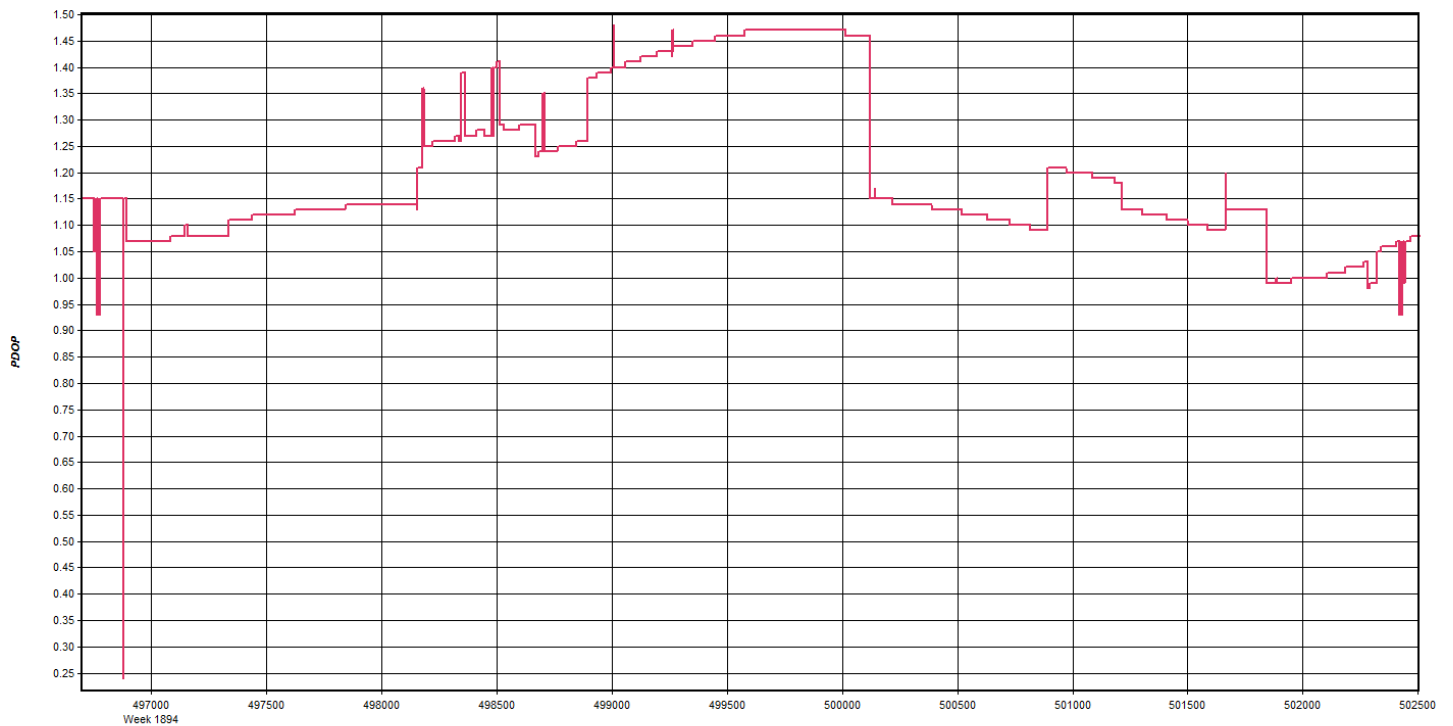
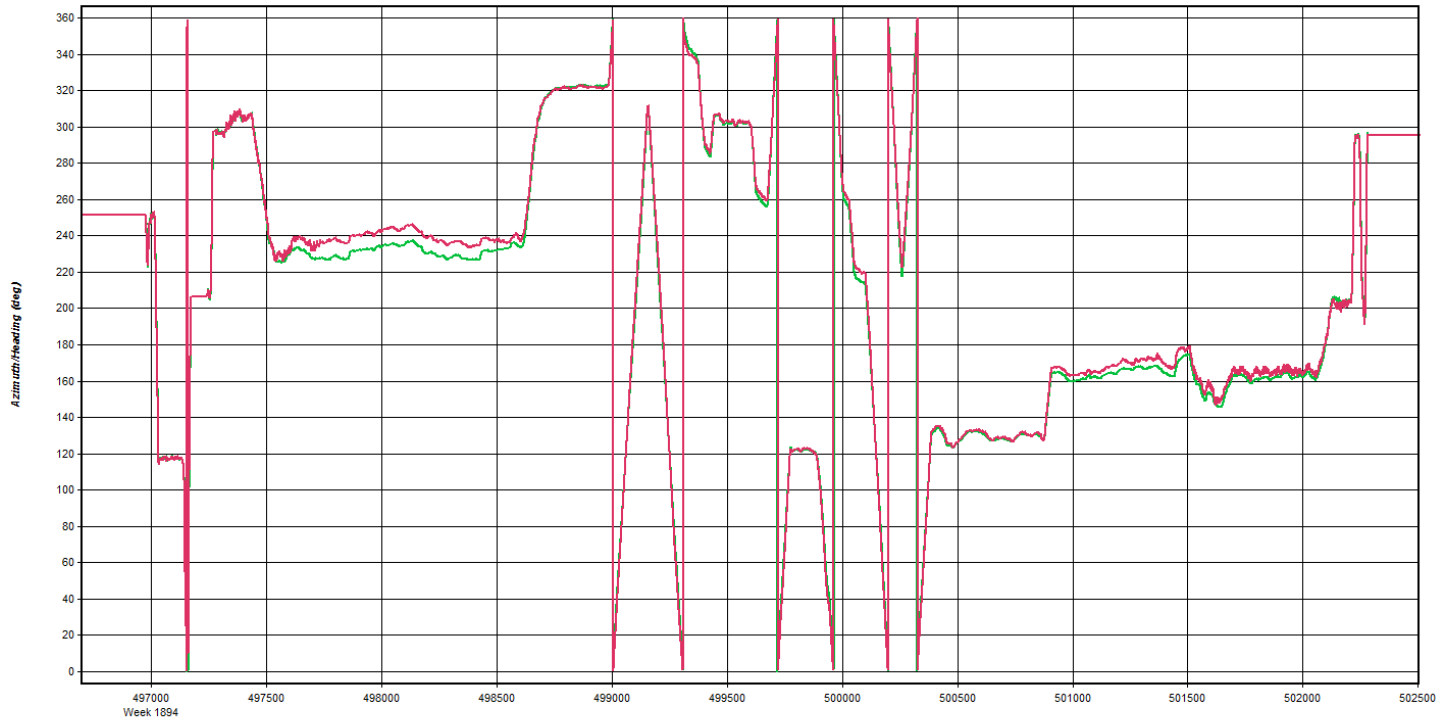


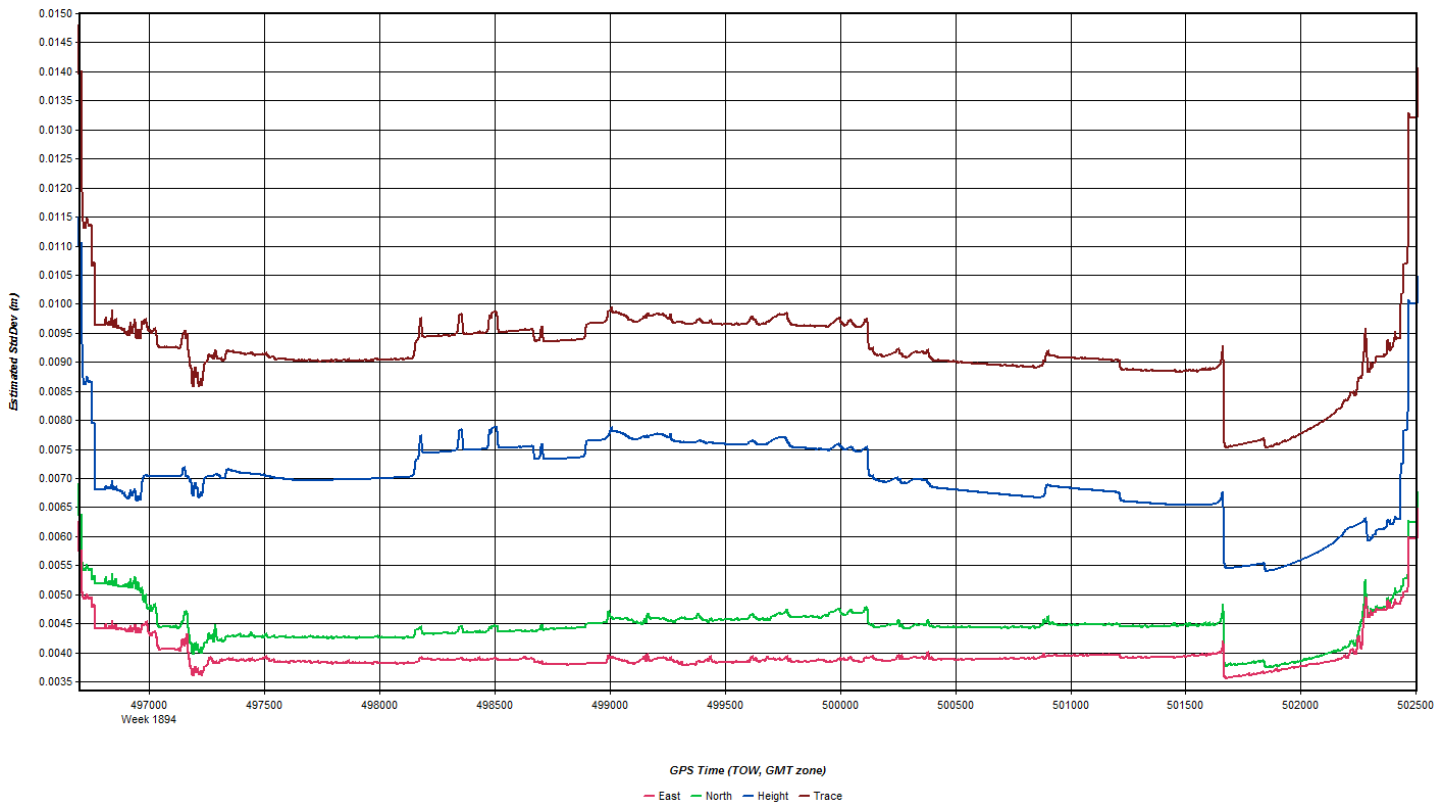


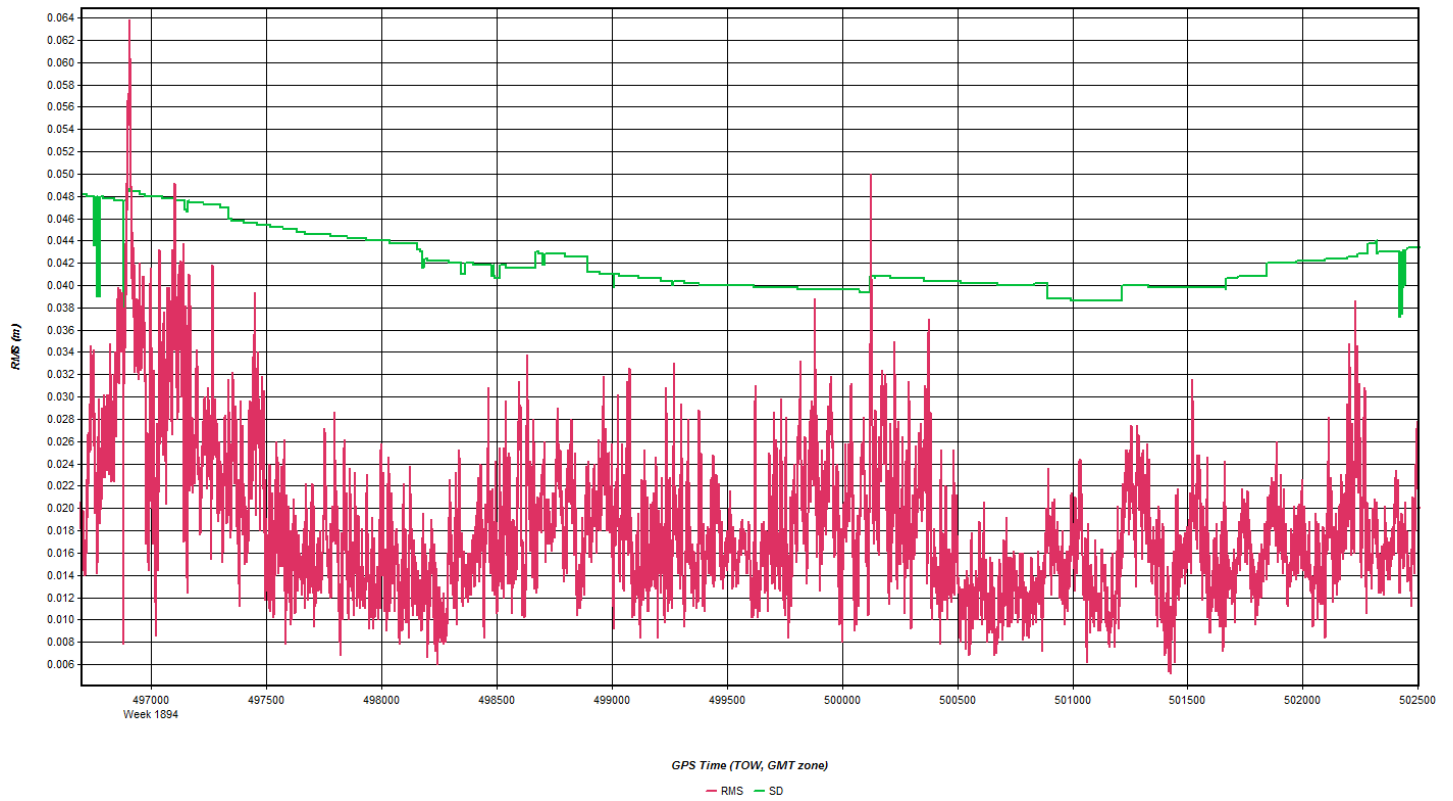
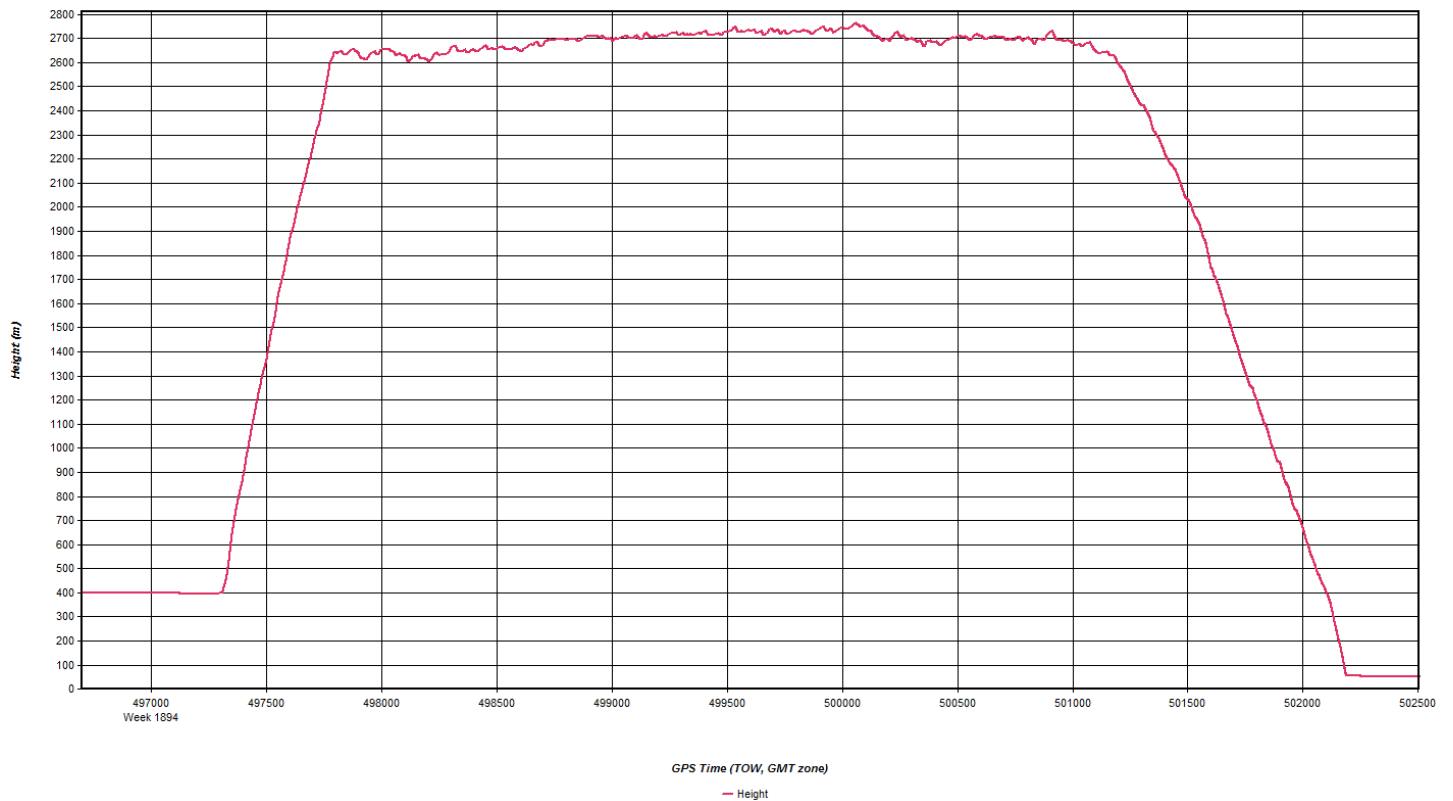
GPS Time (TOW, GMT zone)
 - Num Sats - GPS - GLONASS - Beidou

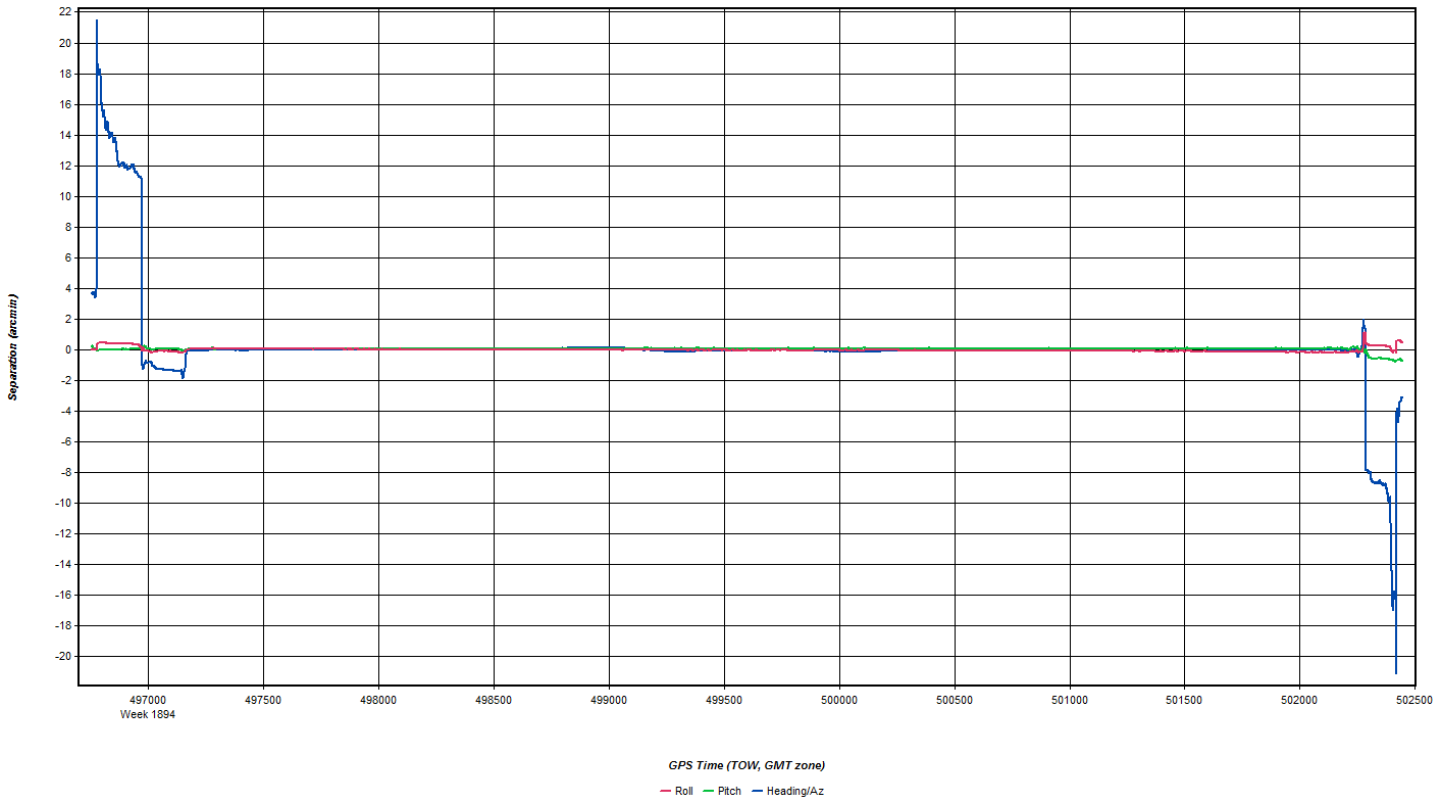


GPS Time (TOW, GMT zone)
 - East - North - Up









Coordinate/Antenna Settings

Master Remote

Base Station

1: MERA Name: MERA Disabled

File: E:\Proc\26818_USGS_NH_reflight_N812TB_29APR2016B\2016i

Coordinates

Latitude: North 44 58 25.33352 Compute from PPP

Longitude: West 70 39 10.58376 Enter Grid Values

Ellipsoidal height: 489.568 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

Scanned by CamScanner

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

Date: 21 APR 2016
 UIC: A B C D E
 Project: 26818-1565 CT River Re-flight Proj #: 26818
 Flight Mgmt File: 20160429-175345

Aircraft: NK12TB Begin Hobbs: 3955.1 End Hobbs: 3956.4 Total: 1.3 Pilot: Radtke Co-Pilot: Tech: Mingay
 Dep Apt: K3B1 Dep Time (Local): 1406 ZF 1806 Arr Apt: KLEW Arr Time (Local): 1529 ZF 1729 Tot Time Aloft: 1.3

CORS: (Y) N Sta 1: MERA Sta 2: Flyovers: (Y) N If Y, times: Sta1) 1630 Sta2) 1907
 GPS Unit: Y (N) Sta 1: Sta 2: Flyovers: Y (N) If Y, times: Sta1) Sta2)

Gd Temp beg:	°C	End:	°C	OAT beg:	°C	End:	°C	Aldimeter begin:	end:
LIDAR	Type: ALS70	Serial #: 7161	Alt AGL: 6640 ft	Alt AMSL: 8917 ft	Avg Terr Ht: 2877 ft	Max Gaspd: 160 knots	Avg Pt Spacing: 100m	Power: 100%	PSM
	FOV: 40°	Scan Freq: 53Hz	MPIA: Y / N	Pulse in Air	Pulse Rate				

Line #	Hdg	Start (UTC)	End (UTC)	Gd Spd	FOV/Size	GPS Altitude	Crab	Turb (0-3)	FLIGHT LINE NOTES - visibility, clouds, smoke, partial, etc.
1565									3 minute static start @ 1759 stop @ 1802
									flyover CORS MERA @ 1830
									figure 8 start @ 1836 stop @ 1841
									Test Fire
									snow visible in forested areas
									snow visible between the trees
									Cross Tie
									figure 8 start @ 1854 stop @ 1859
									flyover CORS MERA @ 1907
									3 minute static start @ 1931 stop @ 1934

Total Proj Lines: Lines Flown: Lines Remarks: Online Time: 0.8 Mob Time: 1.1 Notes:

Appendix B

Survey Report



April 22, 2016

Survey Report of
LiDAR Calibration & Quality Control Points

USGS Contract: G10PC00026

CT River
Winnepesaukee
White Mountain National Forrest

USGS Task Order: G15PD00886
MOD1

Presented to:



Presented By:





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• NVA - Urban Area Points.....	8
• VVA - Tall Weed Points.....	9
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 - VVA - Tall Weed Points.....313
 - VVA - Forest Points.....359
 - VVA - Wetland Points.....421
 - Horizontal Check Points.....441

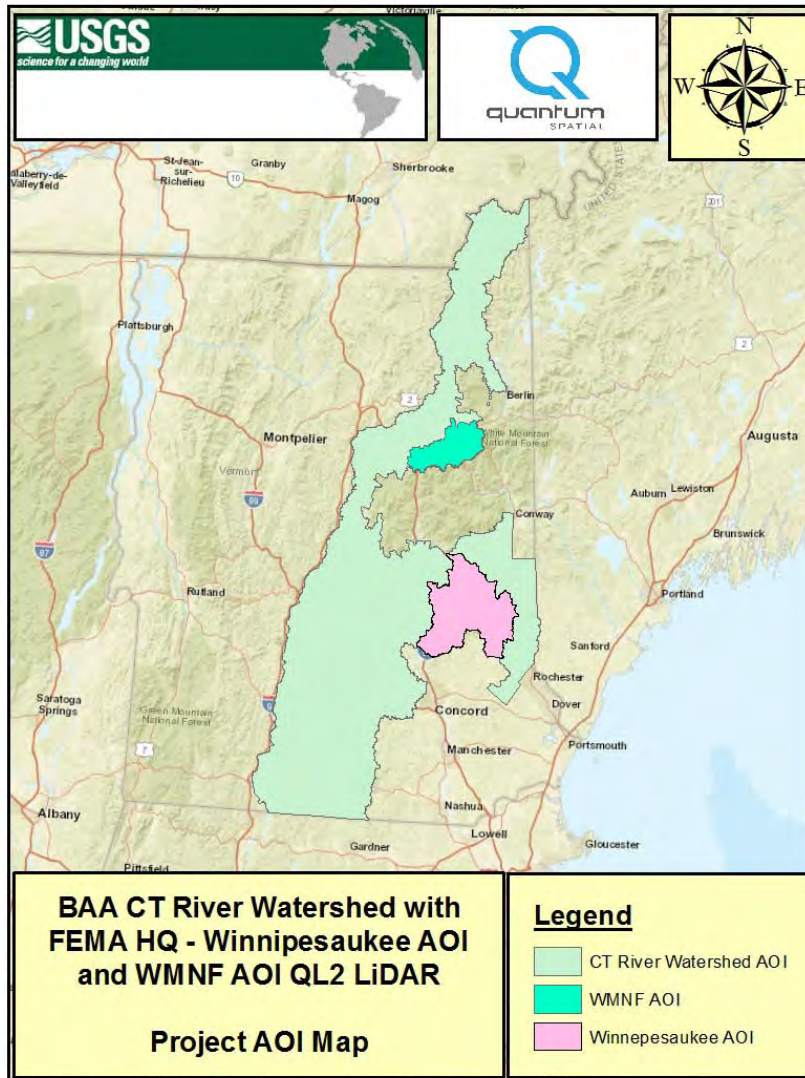


Introduction

Quantum Spatial, Inc. was contracted by USGS under task order G15PD00886 to Survey LiDAR calibration and quality control points in support of NRCS - CT River which includes AOIs for Winnepesaukee and White Mountain National Forest. This is the report of the technical approach used and detail of each point surveyed.

Project Area

The Project Areas, shown in the figure below, consists of approximately 13,554 square kilometers.





Technical Approach to Land Cover Validation Point Selection

Referencing ASPRS Positional Accuracy Standards for Digital Geospatial Data (Edition 1, Version 1.0, - November, 2014) table C.1 Recommended Number of Checkpoints based on Area, Quantum Spatial calculated that 122 Non-Vegetated Vertical Assessment (NVA) and 88 Vegetated Vertical Assessment (VVA) points are required for this project area.

To ensure that checkpoints were distributed generally proportionate among the various vegetated land cover types, Quantum Spatial used existing USGS Land Cover data to divide both the NVA and VVA categories among the various types, calculating the approximate number of required points in each representative type proportionate to the total project area. The resulting point classes are detailed below:

<u>NVA Class</u>	<u># of Points</u>	<u>VVA Class</u>	<u># of Points</u>
Bare Earth	31	Forested	61
Urban Area	97	Tall Weeds/Crops	49
		Wetland	19

Given that approximately 1/2 of the NVA check points should also be used for horizontal accuracy testing, but that it is commonly understood that good vertical check points do not generally make for good horizontal check points, Quantum Spatial has required that 60 horizontal check points shall be used for this project, whether they are used for NVA validation, or are entirely separate. These locations have been reported under their own chapter in this report.

Quantum Spatial has adopted the philosophy that each vegetative class must be well distributed throughout the project area. While points in varying classes may be near to one another, points of a single vegetative class may not. Proposed point locations are selected with this distribution methodology in mind.



Survey Accuracy Requirements

Given that the survey accuracy of calibration and quality control check points should be 3 times more accurate than the required accuracy of the data set, Quantum Spatial requires that calibration and NVA points be better than 6 centimeters, both horizontally and vertically, and that VVA points be better than 9 centimeters, both horizontally and vertically. The surveyed accuracy of each point must be determined through redundant measurements and/or network adjustment using procedures and methodologies that reliably and consistently result in the aforementioned accuracies.

Due to variances in reference control accuracy and adjustment, Quantum Spatial requires that the survey methodology used be explained, so that it can be repeated if necessary.

Field Survey Methodology

Date Range: October 29, 2015 – December 17, 2015

Equipment Used:

Field crews used Trimble R7 dual frequency GNSS receiver base stations with Trimble R8 and Trimble R10 dual frequency receivers as rovers.

GNSS Methodology:

Held KeyNet CORS as primary control. Check points were occupied with static base stations. A network adjustment was run through Trimble Business Center combined with the CORS network to produce a controlled network. Secondary points were occupied with RTK. The positions of secondary points were processed in Trimble Business Center by a least squares adjustment with primary control points held as control.

While running a static occupation on a primary or secondary control point, the base station broadcasts real time kinematic (RTK) corrections to the GNSS rover to observe multiple different points. HCP/SVA/VVA points were observed with a 180 epoch RTK shot.



Variations from the stated GNSS methodology:

When radio RTK signals were unobtainable, points were observed with rapid static GNSS and were post processed as part of the network adjustment.

Overall Project Accuracy Statement

All point coordinates have been reported in the North American Datum of 1983 (NAD83 2011), UTM Zone 19 in meters. Elevations are relative to the North American Vertical Datum of 1988 (NAVD 88) which were derived using the Geoid 12A model and are reported in meters.

Calibration Points

Average Horizontal RMSE is 0.015 meter.

Average Elevation RMSE is 0.021 meter.

Average 3 dimensional RMSE is 0.018 meter.

NVA Points

Average Horizontal RMSE is 0.019 meter.

Average Elevation RMSE is 0.024 meter.

Average 3 dimensional RMSE is 0.022 meter.

VVA Points

Average Horizontal RMSE is 0.020 meter.

Average Elevation RMSE is 0.026 meter.

Average 3 dimensional RMSE is 0.023 meter.

Horizontal Points (HCP)

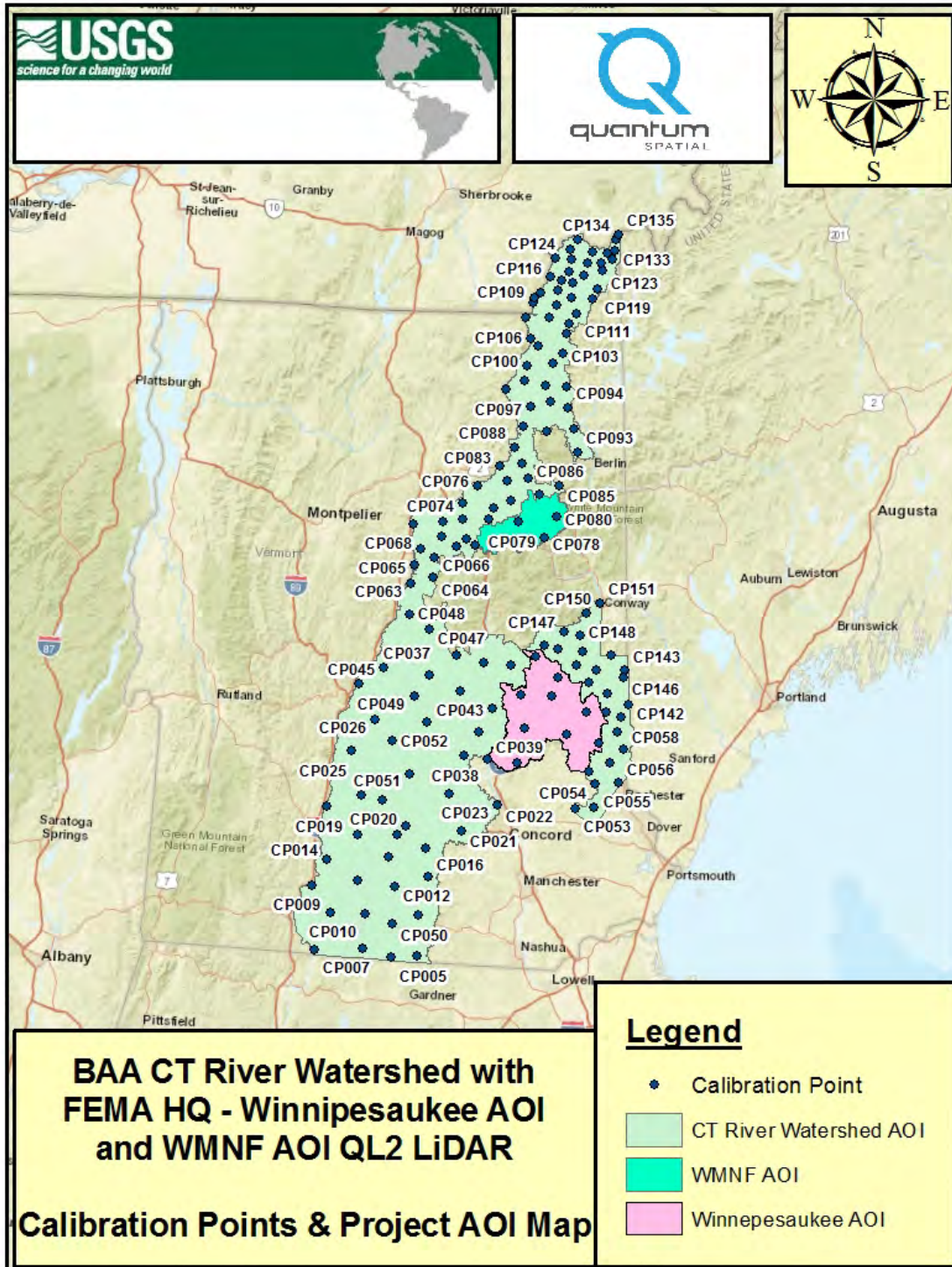
Average Horizontal RMSE is 0.016 meter.

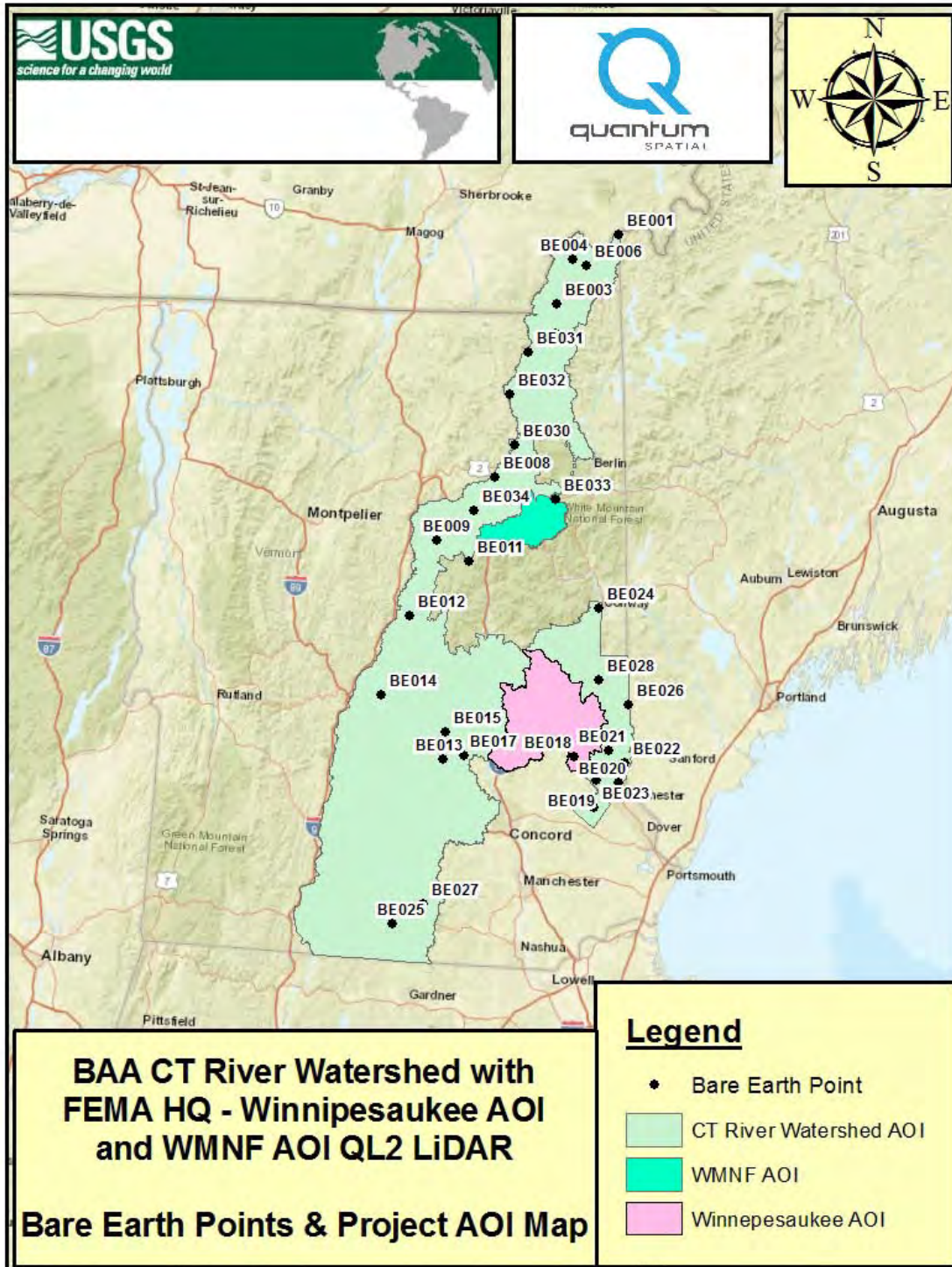
Average Elevation RMSE is 0.020 meter.

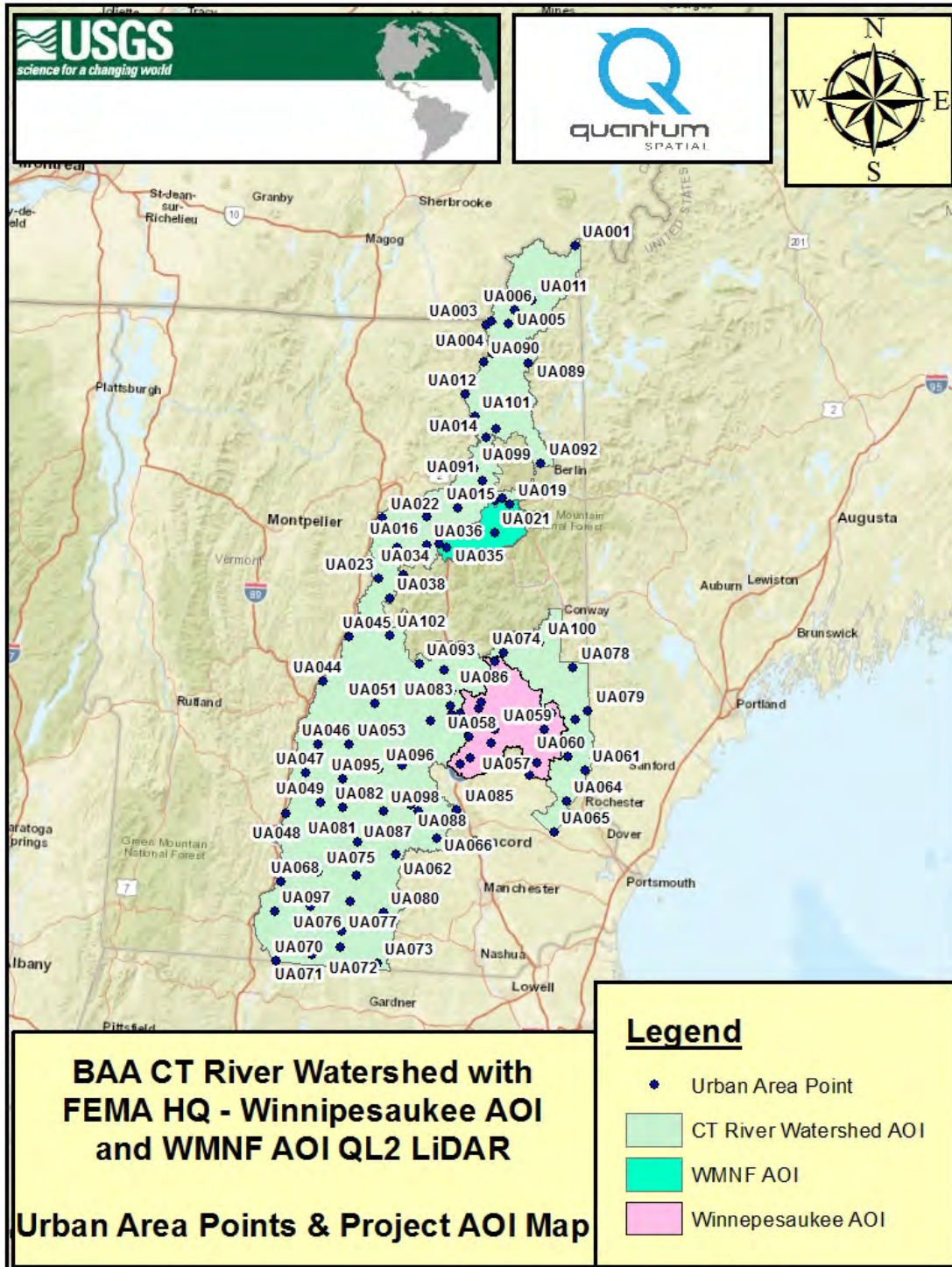
Average 3 dimensional RMSE is 0.018 meter.

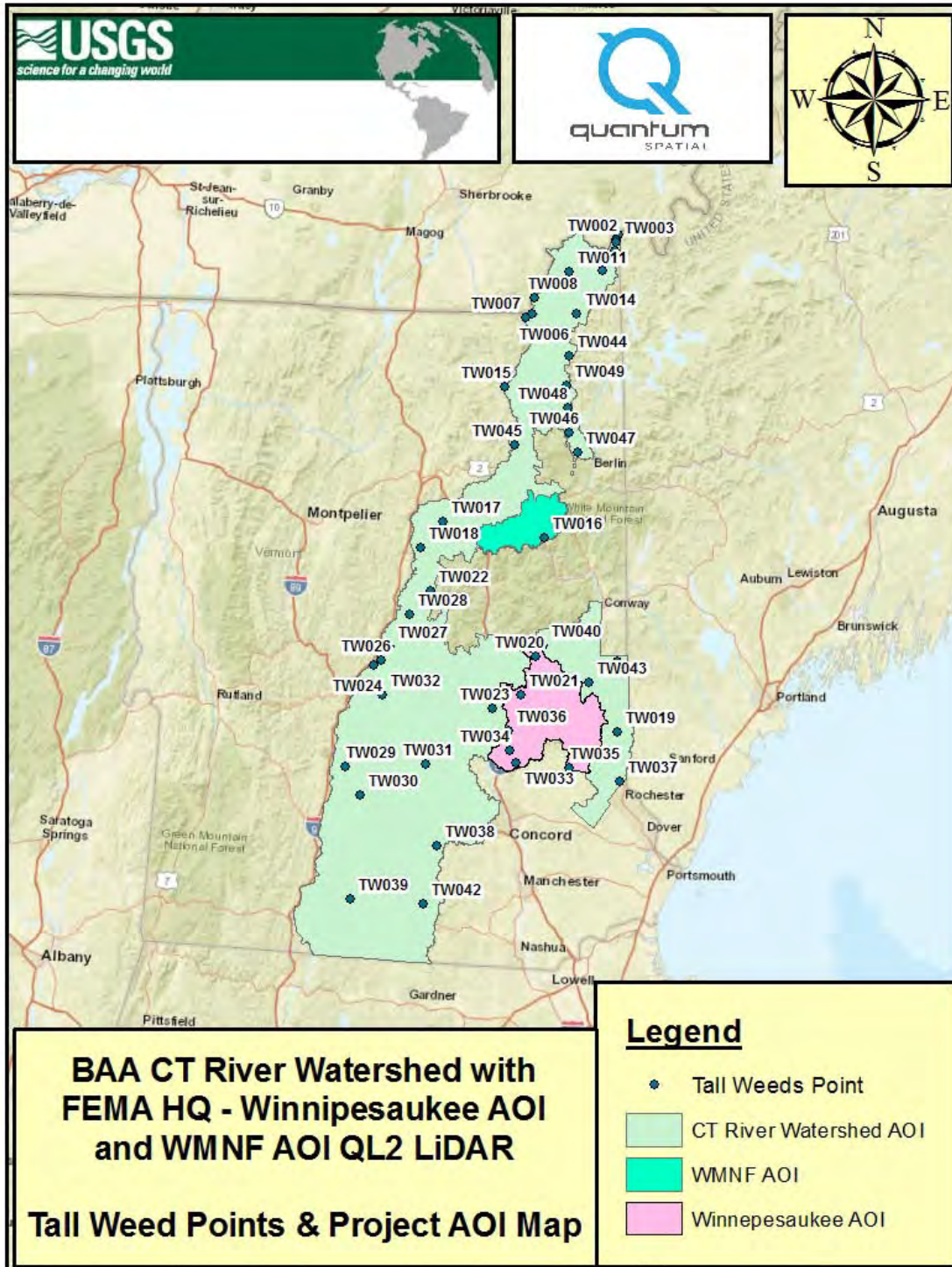


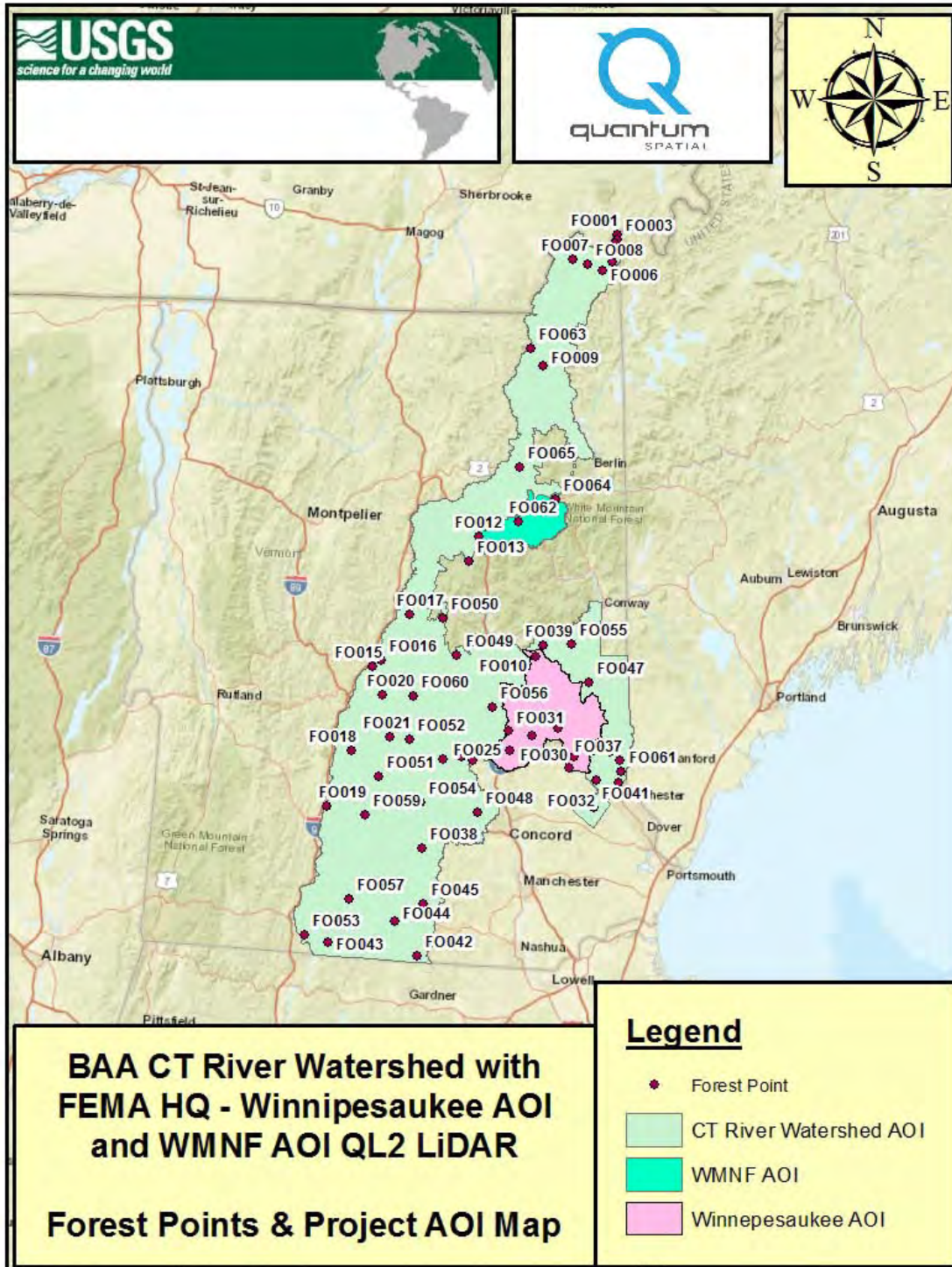
Project AOI & Point Location Maps

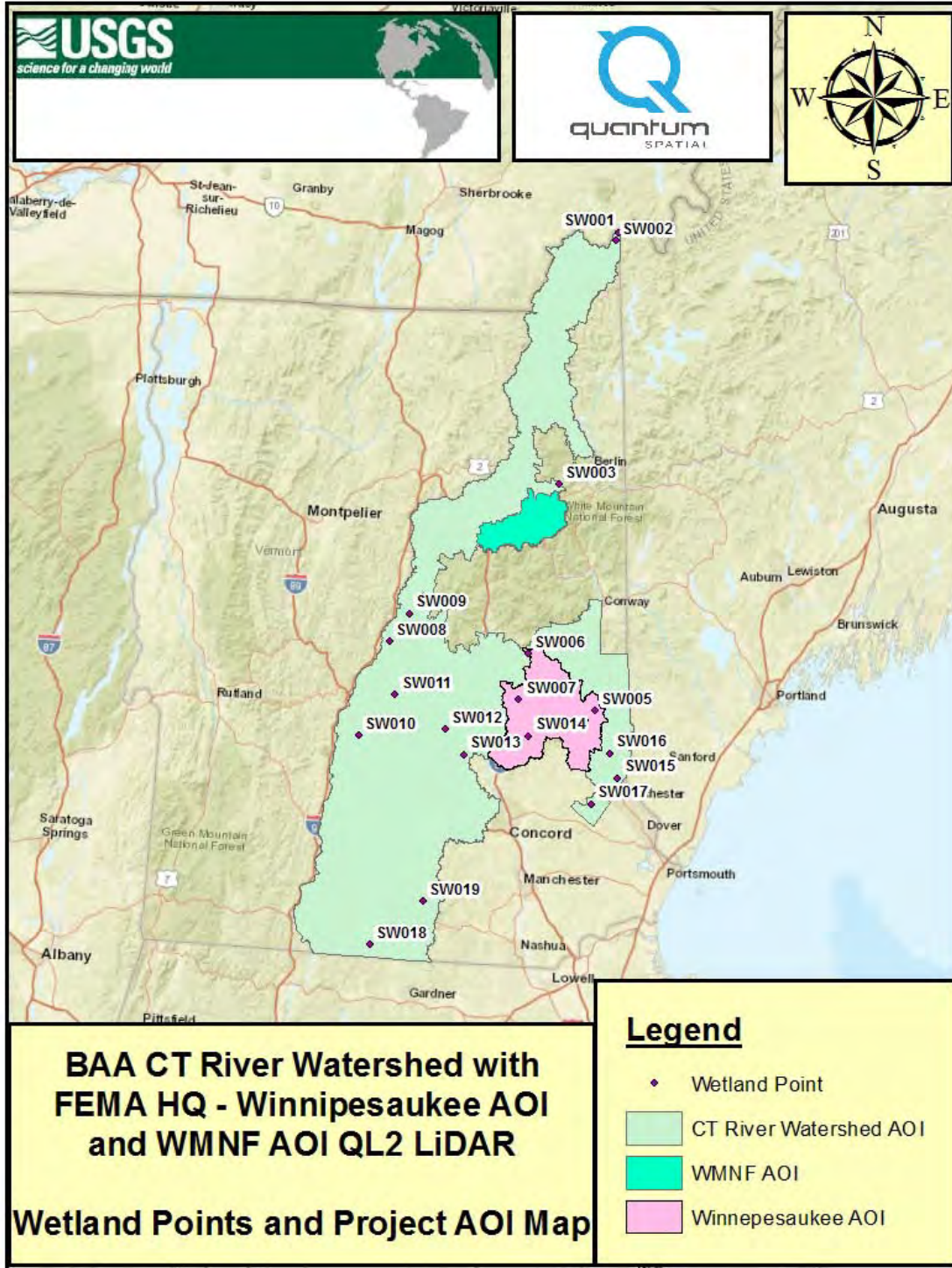


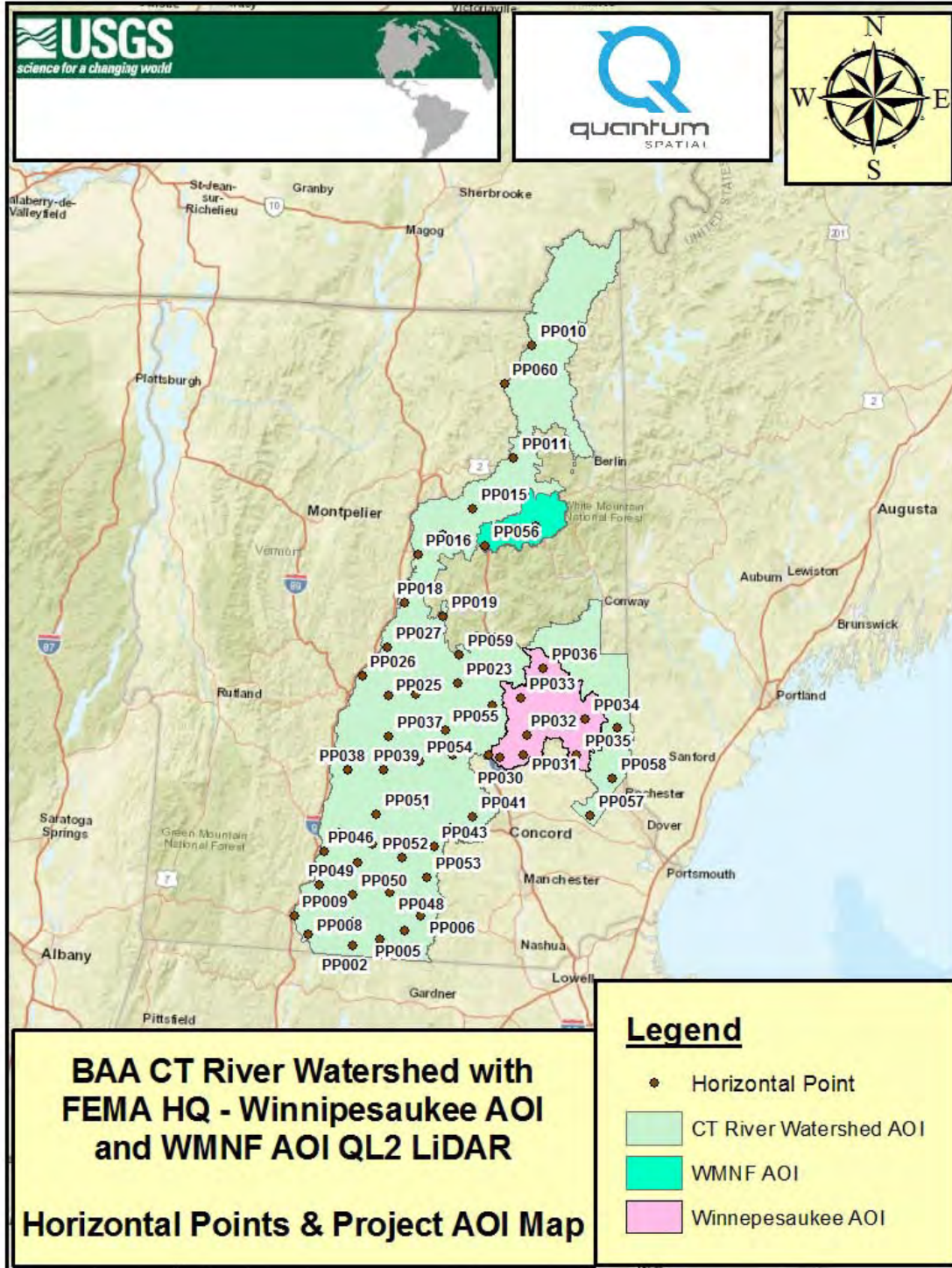














Final Point Coordinates



Calibration Point Coordinates

Horizontal Datum - NAD83(2011)
UTM-Zone 19N
Vertical Datum - NAVD 88
Geoid - GEOID12A
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
CP001	4735224.945	257755.227	367.066
CP002	4796493.574	244106.225	310.272
CP003	4810795.458	296704.233	244.706
CP004	4782805.299	250024.216	447.242
CP005	4734985.566	247244.065	274.841
CP006	4738430.248	236089.403	327.994
CP007	4737815.631	217489.862	93.970
CP008	4752444.282	223433.839	221.571
CP009	4763107.747	216604.771	113.380
CP010	4751714.819	237307.958	202.690
CP011	4751306.220	258151.054	242.750
CP012	4762279.681	248705.148	434.153
CP013	4764777.001	234368.117	247.848
CP014	4773129.785	222356.069	208.285
CP015	4774300.616	246412.994	437.460
CP016	4766482.507	261783.327	191.413
CP017	4777782.764	261220.740	210.084
CP018	4782825.059	234237.681	423.482
CP019	4793966.701	222047.613	117.688
CP020	4786472.275	253110.277	316.512
CP021	4784218.171	274875.222	141.543
CP022	4794412.081	288977.857	102.504
CP023	4798909.064	270296.592	238.400
CP024	4806513.525	254939.906	414.731
CP025	4815830.158	231909.337	289.578
CP026	4828173.479	241286.198	441.280
CP027	4827056.023	261711.609	253.615
CP028	4832550.936	287136.499	166.185
CP029	4824657.756	299711.350	153.828
CP030	4822062.446	316195.549	199.238



CP031	4807498.412	325022.812	331.222
CP032	4818906.017	329081.015	257.652
CP033	4830997.692	324221.037	180.269
CP034	4837082.923	310589.646	154.416
CP035	4852892.377	304094.647	188.706
CP036	4837612.322	298443.531	154.783
CP037	4848557.680	244346.249	318.065
CP038	4813683.880	275902.901	194.969
CP039	4812401.481	285224.060	98.652
CP040	4823068.424	281694.533	138.159
CP041	4845586.555	262475.350	411.476
CP042	4850108.504	283985.918	165.741
CP043	4839156.226	274687.942	202.971
CP044	4849094.548	294294.477	184.335
CP045	4841941.434	234688.932	151.363
CP046	4853090.037	273360.126	160.042
CP047	4863525.704	262663.620	276.374
CP048	4869028.991	254700.348	351.789
CP049	4837099.720	256421.771	288.587
CP050	4748009.531	247707.129	417.901
CP051	4798426.724	235562.260	445.281
CP052	4819542.318	248095.967	312.689
CP053	4792893.888	319622.833	183.922
CP054	4793566.513	327055.368	179.938
CP055	4802747.184	327593.470	262.144
CP056	4803401.133	336711.786	89.890
CP057	4810939.827	333102.327	180.346
CP058	4816243.077	338643.936	139.979
CP059	4823006.189	336207.071	167.129
CP060	4829105.602	337691.645	186.738
CP061	4831055.308	331739.320	303.671
CP062	4844469.140	312884.996	382.969
CP063	4881267.980	255021.692	151.031
CP064	4883807.620	263725.033	401.538
CP065	4888822.975	256640.448	145.957
CP066	4891427.292	264336.225	245.792
CP067	4895152.053	259261.219	194.667
CP068	4904721.127	256397.901	160.738
CP069	4896003.194	272922.544	414.241
CP070	4899636.315	267109.502	170.374
CP071	4896515.877	280194.115	299.230



CP072	4898915.101	277117.505	474.230
CP073	4905435.862	267879.874	203.116
CP074	4906693.041	275653.700	215.249
CP075	4911035.333	287680.547	322.943
CP076	4919790.449	281580.311	302.650
CP077	4906428.506	285558.964	439.848
CP078	4899497.628	307374.570	575.964
CP079	4905411.339	297268.971	432.389
CP080	4907525.163	312241.621	916.195
CP081	4921355.646	292867.222	362.569
CP082	4916230.938	305566.994	358.536
CP083	4927168.127	290142.350	255.927
CP084	4913875.330	294285.734	350.876
CP085	4919429.050	313217.390	669.373
CP086	4922525.675	301485.510	337.786
CP087	4928579.828	299038.948	308.927
CP088	4934612.615	295812.974	265.755
CP089	4942775.329	299249.852	271.849
CP091	4940949.867	308431.662	293.225
CP092	4942019.092	319363.735	403.779
CP093	4932787.155	320739.718	371.433
CP094	4950355.249	316566.087	445.083
CP095	4952479.950	310101.398	599.381
CP096	4950627.950	302459.436	489.126
CP097	4957271.076	292485.071	269.882
CP098	4960683.231	299793.546	524.490
CP099	4958957.680	308036.648	497.241
CP100	4966526.380	300993.638	575.039
CP101	4967615.146	310936.439	529.373
CP103	4971431.159	314785.357	453.935
CP104	4977566.400	302103.824	317.185
CP102	4974430.384	305301.741	360.883
CP105	4979315.484	316319.269	690.222
CP106	4985573.092	300119.496	313.272
CP107	4985823.953	309382.012	511.602
CP108	4983063.823	317216.873	640.781
CP109	4991236.473	303150.093	338.980
CP110	4990565.999	312229.359	427.048
CP111	4986935.909	320418.969	537.608
CP112	4993309.100	303840.259	339.046
CP113	4996329.018	312749.201	422.968



CP114	4993557.760	318482.482	442.123
CP115	4992697.084	326509.945	667.216
CP116	5001595.067	310230.700	543.884
CP117	5000390.959	314148.438	429.714
CP118	4999061.643	318657.623	495.870
CP119	4996826.673	328306.703	666.816
CP121	5003578.758	317310.352	557.391
CP122	5001970.684	323032.967	616.208
CP123	5003845.283	330209.836	588.211
CP124	5008842.841	311984.890	513.002
CP125	5008557.624	318444.661	532.890
CP126	5006947.925	324606.318	805.795
CP127	5006733.536	329708.299	584.588
CP128	5008248.258	334359.773	645.659
CP129	5012356.322	317560.353	464.787
CP130	5016036.017	320636.475	587.203
CP131	5011339.494	326676.861	687.139
CP132	5010677.449	332527.989	841.139
CP133	5011693.790	334983.852	730.112
CP134	5016078.925	335880.666	654.068
CP135	5018135.525	336489.766	704.792
CP136	4857072.158	307418.025	206.039
CP137	4855760.892	312735.203	178.900
CP138	4854644.505	322651.965	134.949
CP139	4849106.148	319959.111	277.091
CP140	4842709.368	325135.542	205.244
CP141	4838023.753	332196.670	152.466
CP142	4833993.313	340328.134	181.567
CP143	4847441.728	339127.925	176.984
CP144	4853001.782	333807.538	140.876
CP145	4847231.904	327738.278	130.403
CP146	4844369.651	338379.780	128.918
CP147	4862523.900	315423.775	226.759
CP148	4860800.685	321599.248	161.161
CP150	4869764.116	324053.564	207.047
CP151	4873700.342	329264.326	150.157
CP_ADD1	4912792.066	275738.950	311.291
CP_ALT1	4995423.458	306065.696	364.022
CP_ALT2	4958624.007	316368.614	601.778



Bare Earth Point Coordinates

Horizontal Datum - NAD83(2011)
UTM-Zone 19N
Vertical Datum - NAVD 88
Geoid - GEOID12A
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
BE001	5018136.640	336505.760	707.213
BE003	4990729.730	312269.120	405.982
BE004	5008532.210	318518.100	536.882
BE005	5010671.260	332538.720	842.288
BE006	5005919.540	324193.480	775.436
BE007	4979383.920	312026.830	513.849
BE008	4923229.060	288242.120	260.381
BE009	4898152.490	265605.510	182.407
BE010	4895334.120	284060.330	611.821
BE011	4890102.080	277959.760	452.201
BE012	4868735.520	254903.060	340.887
BE013	4812688.360	267754.910	199.061
BE014	4837714.100	243399.290	231.121
BE015	4823282.340	268607.580	249.245
BE017	4813686.900	275915.480	195.544
BE018	4813434.570	319079.770	200.094
BE019	4804163.630	328082.090	206.648
BE020	4803372.600	336709.190	89.589
BE021	4815942.120	332611.470	233.091
BE022	4810924.560	339170.020	128.731
BE023	4793569.950	327060.440	180.000
BE024	4871669.520	328911.710	143.832
BE025	4748018.490	247705.130	418.161
BE026	4834000.180	340330.230	181.706
BE027	4755878.860	260073.890	211.127
BE028	4843631.120	328774.170	183.278
BE030	4935641.240	295924.770	272.285
BE031	4972178.900	301169.660	310.611
BE032	4955303.740	293866.920	294.440
BE033	4914280.640	311811.260	447.495
BE034	4909844.440	279833.750	254.757



Urban Area Point Coordinates

Horizontal Datum - NAD83(2011)
UTM-Zone 19N
Vertical Datum - NAVD 88
Geoid - GEOID12A
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
UA001	5016675.403	335399.899	726.926
UA002	4974334.813	302971.364	311.748
UA003	4985509.207	300495.653	319.971
UA004	4986919.443	302304.686	330.215
UA005	4985835.769	309342.018	510.734
UA006	4991491.441	311747.735	406.048
UA011	4995040.378	318334.513	476.247
UA012	4958429.704	292165.325	295.072
UA013	4944588.868	304269.644	285.755
UA014	4941121.068	300681.551	266.268
UA015	4913481.005	289414.719	339.939
UA016	4910224.439	277213.596	244.572
UA017	4917576.845	306957.164	415.120
UA018	4916467.292	303673.450	335.937
UA019	4914920.188	309871.457	477.537
UA020	4905425.457	297313.802	433.855
UA021	4904179.211	303682.662	477.539
UA022	4909615.385	259986.540	249.198
UA023	4885984.480	258250.294	151.941
UA024	4898201.782	265598.214	177.600
UA025	4826938.543	323467.577	210.127
UA026	4833157.518	326003.780	188.174
UA027	4830969.091	335413.563	287.034
UA028	4831668.175	324981.466	170.741
UA029	4853392.864	303681.576	205.717
UA030	4847530.490	307078.208	188.575
UA031	4835118.343	297600.631	193.512
UA032	4837631.339	298473.189	154.992
UA033	4903603.880	284339.953	465.716
UA034	4899762.793	281867.120	300.457



UA035	4897945.398	285070.582	464.048
UA036	4899036.865	277237.964	477.930
UA037	4887431.041	267777.494	388.764
UA038	4878514.639	262734.492	242.270
UA039	4832571.587	287173.254	165.997
UA040	4841661.392	273901.499	189.360
UA041	4830188.264	278693.939	140.445
UA042	4833211.033	290230.935	177.492
UA043	4835974.049	286427.875	156.269
UA044	4845889.949	236419.666	160.596
UA045	4863349.348	246459.573	133.292
UA046	4821051.657	234672.309	258.189
UA047	4809775.647	229612.339	194.985
UA048	4793949.343	222074.308	118.730
UA049	4798440.043	235569.705	445.560
UA050	4812676.027	267746.046	199.910
UA051	4837036.323	256926.967	288.230
UA052	4813133.170	290534.454	138.434
UA053	4821187.317	246868.720	313.092
UA054	4815899.163	293977.280	161.420
UA055	4808995.769	317356.086	266.711
UA056	4813876.695	320320.351	171.736
UA057	4821500.460	302535.783	229.985
UA058	4823788.386	293656.119	263.315
UA059	4826658.910	303967.853	162.926
UA060	4815959.534	332590.142	233.396
UA061	4810927.529	339171.908	128.891
UA062	4777967.136	264976.413	171.395
UA063	4769678.764	249453.422	392.036
UA064	4798949.754	332035.720	206.530
UA065	4786381.667	327078.458	154.296
UA066	4784092.750	281167.298	146.755
UA067	4757540.811	231538.276	143.240
UA068	4767045.177	219853.097	125.354
UA069	4787263.158	233048.737	254.366
UA070	4736405.229	217903.429	90.102
UA071	4738761.293	232248.053	323.831
UA072	4741343.588	243094.207	348.638
UA073	4735374.956	257675.001	366.233
UA074	4856911.692	307271.920	210.299
UA075	4771327.525	234697.981	268.525



UA076	4759422.280	247152.163	408.491
UA077	4747975.899	243586.458	376.325
UA078	4851157.999	334626.894	126.875
UA079	4834022.646	340339.881	182.302
UA080	4755181.942	260141.004	231.039
UA081	4782804.482	250015.550	446.859
UA082	4796450.970	244056.689	310.301
UA083	4850349.291	283966.144	171.723
UA084	4794406.171	288987.095	102.575
UA085	4795231.483	289047.175	102.235
UA086	4841883.633	286997.202	160.743
UA087	4794768.344	273968.258	131.821
UA088	4797275.279	270927.387	181.198
UA089	4970579.814	317067.583	570.325
UA090	4970933.092	299320.069	321.946
UA091	4924280.287	298954.213	317.717
UA092	4931185.277	322005.778	378.133
UA093	4852803.807	274315.697	158.278
UA094	4867558.750	267780.387	232.788
UA095	4807387.027	244365.129	258.931
UA096	4811123.215	258370.578	394.138
UA097	4755550.642	217514.480	231.415
UA098	4794923.201	260085.191	208.625
UA099	4928974.255	295734.269	275.715
UA100	4860785.050	321597.723	161.533
UA101	4949600.904	296190.195	287.306
UA102	4863526.842	262653.459	276.943



Tall Weed Point Coordinates

Horizontal Datum - NAD83(2011)
UTM-Zone 19N
Vertical Datum - NAVD 88
Geoid - GEOID12A
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
TW001	5018033.057	336459.613	707.248
TW002	5016068.511	335901.593	652.338
TW003	5015346.893	335620.190	642.368
TW004	5011710.175	334986.343	728.180
TW005	5003847.380	330191.844	588.102
TW006	4986956.596	302776.216	327.413
TW007	4985548.491	300120.530	312.658
TW008	4993330.156	303891.192	338.768
TW011	5003570.987	317326.977	558.826
TW012	4992703.051	326505.431	666.734
TW014	4986940.030	320411.477	536.985
TW015	4958502.395	292076.419	290.332
TW016	4899512.546	307364.466	574.706
TW017	4905411.103	267875.828	202.832
TW018	4895158.137	259255.436	194.065
TW019	4822997.866	336203.539	166.968
TW020	4852804.018	304078.058	184.062
TW021	4837593.483	298439.552	154.415
TW022	4878549.423	262741.226	239.932
TW023	4832556.871	287143.058	166.045
TW024	4849085.184	240647.361	174.071
TW026	4851131.386	243626.153	211.239
TW027	4856496.527	246790.587	164.464
TW028	4869026.764	254689.141	350.937
TW029	4809779.473	229627.802	197.083
TW030	4798425.970	235472.619	441.489
TW031	4810679.408	261060.512	296.433
TW032	4837917.296	243821.572	235.534
TW033	4811083.427	296328.449	223.827



TW034	4815885.173	294002.486	162.088
TW035	4808962.619	317383.686	264.839
TW036	4823738.338	293670.204	264.882
TW037	4803734.272	336926.263	98.825
TW038	4778393.107	265164.038	172.643
TW039	4757531.879	231508.408	142.648
TW040	4856916.168	307247.859	210.886
TW041	4850742.752	336280.000	121.157
TW042	4755894.343	260089.460	210.913
TW043	4842737.075	325132.327	204.821
TW044	4970571.097	317042.277	567.245
TW045	4935628.578	295920.370	271.805
TW046	4940521.286	317392.303	298.820
TW047	4932816.085	320712.185	370.473
TW048	4950339.002	316660.872	440.170
TW049	4958719.155	316365.554	600.561



Forest Point Coordinates

Horizontal Datum - NAD83(2011)
UTM-Zone 19N
Vertical Datum - NAVD 88
Geoid - GEOID12A
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
FO001	5018000.046	336400.707	717.325
FO003	5016135.140	335962.938	651.999
FO004	5014571.053	335425.722	644.412
FO005	5007264.587	334465.848	650.440
FO006	5003861.897	330253.865	590.297
FO007	5008539.453	318545.590	537.070
FO008	5006384.040	324371.331	782.020
FO009	4966789.878	307310.437	452.720
FO010	4852856.769	304073.177	185.088
FO011	4903597.281	284372.940	472.230
FO012	4899761.552	281867.403	301.734
FO013	4890079.253	277923.330	450.151
FO015	4848935.708	240116.599	137.758
FO016	4851423.963	243640.019	215.649
FO017	4869048.043	254698.405	354.961
FO018	4815781.262	231793.880	281.779
FO019	4793986.036	222098.257	118.767
FO020	4837912.941	243813.744	235.002
FO021	4821199.537	246874.144	312.904
FO022	4812438.565	267596.230	195.726
FO023	4813465.415	274908.440	190.997
FO024	4811849.579	279264.598	269.054
FO025	4815922.815	294020.964	159.737
FO026	4813420.814	319056.496	200.427
FO027	4808977.399	317364.170	265.949
FO028	4824609.072	313132.626	206.778
FO029	4827988.399	306642.201	154.772
FO030	4821705.301	302588.324	230.700
FO031	4823734.694	293636.429	264.339



FO032	4804174.620	328107.353	203.075
FO033	4803468.974	336687.016	87.021
FO034	4815300.552	333191.387	223.338
FO035	4818922.355	329066.934	257.090
FO037	4811999.887	336931.747	295.203
FO038	4777546.406	259652.201	248.237
FO039	4856983.981	307318.201	209.031
FO040	4798955.930	332051.162	207.763
FO041	4793565.535	326937.473	174.805
FO042	4735384.168	257642.473	365.988
FO043	4740774.430	222903.374	132.705
FO044	4748715.927	248974.289	368.848
FO045	4755867.713	260006.050	211.185
FO046	4796545.709	245904.289	390.593
FO047	4842756.836	325125.933	202.809
FO048	4791441.582	281388.283	115.328
FO049	4853092.936	273381.018	160.373
FO050	4867744.004	267835.475	233.632
FO051	4805825.118	242595.454	239.002
FO052	4820184.549	254733.744	442.436
FO053	4743647.455	213310.045	68.415
FO054	4795693.382	258889.434	224.499
FO055	4857705.348	318040.992	145.374
FO056	4832643.834	286972.805	177.997
FO057	4757549.576	231073.603	142.577
FO059	4790538.570	237354.419	335.965
FO060	4837063.437	256197.241	303.063
FO061	4807457.846	337687.373	125.115
FO062	4905399.000	297252.680	430.091
FO063	4973557.623	302262.909	309.415
FO064	4914422.039	312113.448	466.113
FO065	4926815.404	297770.732	323.196



Wetland Point Coordinates

Horizontal Datum - NAD83(2011)
UTM-Zone 19N
Vertical Datum - NAVD 88
Geoid - GEOID12A
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
SW001	5018222.146	336549.490	702.532
SW002	5014976.855	335660.978	637.383
SW003	4919448.575	313200.746	669.088
SW004	4826926.303	323494.421	208.054
SW005	4830751.913	327366.414	162.404
SW006	4853024.945	301324.752	228.435
SW007	4835093.103	297609.385	193.300
SW008	4857944.574	247132.467	131.255
SW009	4868789.214	254798.073	339.097
SW010	4821064.602	234703.772	255.280
SW011	4836997.161	248815.395	243.733
SW012	4823395.133	268568.022	244.282
SW013	4813664.061	275909.273	192.363
SW014	4820837.936	301469.515	177.545
SW015	4804240.722	336391.853	90.771
SW016	4814070.219	333417.262	191.185
SW017	4794161.245	325902.018	172.520
SW018	4739111.038	238958.639	349.332
SW019	4756053.226	260034.319	208.236



Horizontal Point Coordinates

Horizontal Datum - NAD83(2011)
UTM-Zone 19N
Vertical Datum - NAVD 88
Geoid - GEOID12A
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
PP001	4824283.055	336252.176	171.520
PP002	4738760.069	232254.924	323.880
PP003	4741272.736	243137.306	345.915
PP004	4737357.155	253698.074	391.438
PP005	4744539.815	252860.115	308.696
PP006	4750480.413	259042.072	221.242
PP007	4747803.349	232512.476	148.549
PP008	4742995.329	214994.685	66.252
PP009	4750439.463	209415.397	72.250
PP010	4974070.801	302704.654	314.706
PP011	4929595.048	295676.287	263.546
PP012	4902995.882	304423.049	485.829
PP013	4899794.868	267742.421	175.317
PP014	4916604.520	292067.694	291.297
PP015	4909858.485	279519.003	258.204
PP016	4892026.539	258014.415	157.950
PP017	4880268.002	254533.091	193.656
PP018	4872944.420	252903.598	178.863
PP019	4867545.590	267769.691	232.711
PP020	4861810.826	265944.505	200.847
PP021	4848347.936	283561.701	168.175
PP022	4832631.413	287039.536	167.078
PP023	4841753.923	273840.844	190.420
PP024	4837054.807	256931.619	288.962
PP025	4836911.438	246341.867	239.482
PP026	4844574.621	236118.258	140.673
PP027	4855699.914	245945.321	164.116
PP028	4813191.262	271534.235	197.324
PP029	4813523.133	285850.878	99.337



PP030	4812239.991	290227.347	134.547
PP031	4813205.950	299337.883	161.144
PP032	4821334.019	300711.975	154.088
PP033	4835792.652	298385.550	194.252
PP034	4827330.873	323644.714	208.447
PP035	4813509.435	320115.358	170.166
PP036	4847535.831	307092.167	188.416
PP037	4820938.016	246655.620	301.140
PP038	4807531.659	230435.737	162.641
PP039	4807378.851	244350.416	259.476
PP040	4794185.408	260635.637	197.470
PP041	4789237.025	279498.503	111.134
PP042	4784640.909	270592.568	134.105
PP043	4777702.461	264256.575	194.722
PP044	4778710.180	239943.590	354.397
PP045	4782958.333	227275.196	157.503
PP046	4775392.471	221113.954	119.318
PP047	4771368.344	234518.003	274.613
PP048	4759421.023	247162.258	408.533
PP049	4762298.224	219205.955	127.345
PP050	4758861.065	232543.239	148.327
PP051	4790310.489	241578.927	373.132
PP052	4773303.029	251668.657	367.868
PP053	4765188.671	261691.698	206.134
PP054	4811103.908	258358.504	394.130
PP055	4823159.890	268679.037	248.240
PP056	4895162.559	284475.978	595.091
PP057	4789772.054	325461.379	156.146
PP058	4804030.082	334281.634	85.092
PP059	4852810.572	274324.906	158.334
PP060	4958721.363	291858.653	276.710



Point Data and Accuracy Log Sheets



Calibration Point Log Sheets



Point ID	CP001
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Ashburnham

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4735224.945	257755.227	367.066

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-22-2015
RMSE Hz	0.022
RMSE Z	0.024
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP002
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Sullivan
Quad	Newport

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4796493.574	244106.225	310.272

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-24-2015
RMSE Hz	0.016
RMSE Z	0.024
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP003
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Northfield

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4810795.458	296704.233	244.706

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.000

Date (MM-DD-YYYY)	11-16-2015
RMSE Hz	0.017
RMSE Z	0.02
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP004
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Sullivan
Quad	Washington

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4782805.299	250024.216	447.242

Operator	Marc Nabelek
Receiver Model	Trimble R-7
Receiver S/N	4751
Antenna Height	2.0

Date (MM-DD-YYYY)	11-24-2015
RMSE Hz	0.011
RMSE Z	0.013
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP005
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Winchendon

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4734985.566	247244.065	274.841

Operator	Marc Nabelek
Receiver Model	Trimble R-7
Receiver S/N	4751
Antenna Height	2.0

Date (MM-DD-YYYY)	11-22-2015
RMSE Hz	0.031
RMSE Z	0.053
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP006
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Troy

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4738430.248	236089.403	327.994

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-22-2015
RMSE Hz	0.022
RMSE Z	0.054
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP007
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Northfield

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4737815.631	217489.862	93.970

Operator	Marc Nabelek
Receiver Model	Trimble R-7
Receiver S/N	1100
Antenna Height	2.0

Date (MM-DD-YYYY)	11-22-2015
RMSE Hz	0.044
RMSE Z	0.042
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP008
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Hinsdale

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4752444.282	223433.839	221.571

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-21-2015
RMSE Hz	0.032
RMSE Z	0.062
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP009
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Spofford

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4763107.747	216604.771	113.380

Operator	Marc Nabelek
Receiver Model	Trimble R7
Receiver S/N	1100
Antenna Height	2.0

Date (MM-DD-YYYY)	11-21-2015
RMSE Hz	0.017
RMSE Z	0.024
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP010
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Troy

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4751714.819	237307.958	202.690

Operator	Marc Nabelek
Receiver Model	Trimble R7
Receiver S/N	4751
Antenna Height	2.0

Date (MM-DD-YYYY)	11-23-2015
RMSE Hz	0.008
RMSE Z	0.015
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP011
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Hillsborough
Quad	Peterborough North

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4751306.220	258151.054	242.750

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-24-2015
RMSE Hz	0.034
RMSE Z	0.035
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP012
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Dublin

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4762279.681	248705.148	434.153

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-23-2015
RMSE Hz	0.032
RMSE Z	0.053
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP013
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Keene

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4764777.001	234368.117	247.848

Operator	Marc Nabelek
Receiver Model	Trimble R7
Receiver S/N	1100
Antenna Height	2.0

Date (MM-DD-YYYY)	11-23-2015
RMSE Hz	0.007
RMSE Z	0.009
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP014
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Walpole

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4773129.785	222356.069	208.285

Operator	Marc Nabelek
Receiver Model	Trimble R-7
Receiver S/N	4751
Antenna Height	2.0

Date (MM-DD-YYYY)	11-21-2015
RMSE Hz	0.011
RMSE Z	0.010
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP015
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Stoddard

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4774300.616	246412.994	437.460

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-23-2015
RMSE Hz	0.022
RMSE Z	0.029
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP016
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Hillsborough
Quad	Hillsboro

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4766482.507	261783.327	191.413

Operator	Marc Nabelek
Receiver Model	Trimble R-7
Receiver S/N	4751
Antenna Height	2.0

Date (MM-DD-YYYY)	11-24-2015
RMSE Hz	0.014
RMSE Z	0.029
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP017
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Hillsborough
Quad	Hillsboro

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4777782.764	261220.740	210.084

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-24-2015
RMSE Hz	0.033
RMSE Z	0.039
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP018
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Alstead

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4782825.059	234237.681	423.482

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-21-2015
RMSE Hz	0.012
RMSE Z	0.013
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP019
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Sullivan
Quad	Bellows Falls

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4793966.701	222047.613	117.688

Operator	Marc Nabelek
Receiver Model	Trimble R-7
Receiver S/N	1100
Antenna Height	2.0

Date (MM-DD-YYYY)	11-14-2015
RMSE Hz	0.011
RMSE Z	0.014
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP020
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Sullivan
Quad	Washington

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4786472.275	253110.277	316.512

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-24-2015
RMSE Hz	0.028
RMSE Z	0.035
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP021
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Henniker

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4784218.171	274875.222	141.543

Operator	Marc Nabelek
Receiver Model	Trimble R-7
Receiver S/N	1100
Antenna Height	2.0

Date (MM-DD-YYYY)	11-24-2015
RMSE Hz	0.005
RMSE Z	0.014
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP022
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Penacook

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4794412.081	288977.857	102.504

Operator	Marc Nabelek
Receiver Model	Trimble R-7
Receiver S/N	1100
Antenna Height	2.0

Date (MM-DD-YYYY)	11-25-2015
RMSE Hz	0.012
RMSE Z	0.015
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP023
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Warner

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4798909.064	270296.592	238.400

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-25-2015
RMSE Hz	0.048
RMSE Z	0.032
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP024
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Sunapee Lakes

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4806513.525	254939.906	414.731

Operator	Marc Nabelek
Receiver Model	Trimble R7
Receiver S/N	1100
Antenna Height	1.8

Date (MM-DD-YYYY)	11-15-2015
RMSE Hz	0.01
RMSE Z	0.017
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP025
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Sullivan
Quad	Claremont North

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4815830.158	231909.337	289.578

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-14-2015
RMSE Hz	0.013
RMSE Z	0.014
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP026
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Sullivan
Quad	North Grantham

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4828173.479	241286.198	441.280

Operator	Marc Nabelek
Receiver Model	Trimble R-7
Receiver S/N	4751
Antenna Height	2.0

Date (MM-DD-YYYY)	11-14-2015
RMSE Hz	0.017
RMSE Z	0.016
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP027
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Grafton

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4827056.023	261711.609	253.615

Operator	Marc Nabelek
Receiver Model	Trimble R-7
Receiver S/N	1100
Antenna Height	2.000

Date (MM-DD-YYYY)	11-16-2015
RMSE Hz	0.017
RMSE Z	0.019
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP028
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Bristol

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4832550.936	287136.499	166.185

Operator	Mike D'Agostino
Receiver Model	Trimble R7
Receiver S/N	2502
Antenna Height	2.0

Date (MM-DD-YYYY)	11-11-2015
RMSE Hz	0.018
RMSE Z	0.021
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP029
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Laconia

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4824657.756	299711.350	153.828

Operator	Marc Nabelek
Receiver Model	Trimble R7
Receiver S/N	1100
Antenna Height	2.0

Date (MM-DD-YYYY)	11-17-2015
RMSE Hz	0.022
RMSE Z	0.053
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP030
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	West Alton

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4822062.446	316195.549	199.238

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-17-2015
RMSE Hz	0.013
RMSE Z	0.026
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP031
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Strafford
Quad	Alton

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4807498.412	325022.812	331.222

Operator	Marc Nabelek
Receiver Model	Trimble R-7
Receiver S/N	1100
Antenna Height	2.0

Date (MM-DD-YYYY)	11-18-2015
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP032
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Strafford
Quad	Sanbornville

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4818906.017	329081.015	257.652

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-19-2015
RMSE Hz	0.010
RMSE Z	0.023
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP033
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Wolfeboro

Aerial Target	
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4830997.692	324221.037	180.269

Operator	Mike D'Agositno
Receiver Model	Trimble R7
Receiver S/N	4751
Antenna Height	1.8

Date (MM-DD-YYYY)	11-09-2015
RMSE Hz	0.024
RMSE Z	0.035
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP034
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Melvin Village

	Aerial Target
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4837082.923	310589.646	154.416

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-10-2015
RMSE Hz	0.024
RMSE Z	0.023
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP035
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Center Sandwich

Aerial Target	
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4852892.377	304094.647	188.706

Operator	Mike D'Agostino
Receiver Model	Trimble R7
Receiver S/N	4751
Antenna Height	2.0

Date (MM-DD-YYYY)	11-10-2015
RMSE Hz	0.017
RMSE Z	0.027
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP036
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Center Harbor

Aerial Target	
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4837612.322	298443.531	154.783

Operator	Mike D'Agostino
Receiver Model	Trimble R7
Receiver S/N	2502
Antenna Height	1.685

Date (MM-DD-YYYY)	11-10-2015
RMSE Hz	0.007
RMSE Z	0.021
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP037
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Enfiled

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4848557.680	244346.249	318.065

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-13-2015
RMSE Hz	0.019
RMSE Z	0.025
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP038
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Andover

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4813683.880	275902.901	194.969

Operator	Marc Nabelek
Receiver Model	Trimble R-7
Receiver S/N	4751
Antenna Height	2.000

Date (MM-DD-YYYY)	11-16-2015
RMSE Hz	0.013
RMSE Z	0.02
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP039
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Franklin

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4812401.481	285224.060	98.652

Operator	Marc Nabelek
Receiver Model	Trimble R-7
Receiver S/N	3076
Antenna Height	2.000

Date (MM-DD-YYYY)	11-16-2015
RMSE Hz	0.048
RMSE Z	0.068
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP040
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Bristol

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4823068.424	281694.533	138.159

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-11-2015
RMSE Hz	0.034
RMSE Z	0.028
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP041
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Mount Cardigan

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4845586.555	262475.350	411.476

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-12-2015
RMSE Hz	0.015
RMSE Z	0.051
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP042
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Plymouth

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4850108.504	283985.918	165.741

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-11-2015
RMSE Hz	0.010
RMSE Z	0.016
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP043
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Newfound Lake

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4839156.226	274687.942	202.971

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-11-2015
RMSE Hz	0.016
RMSE Z	0.031
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP044
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Squam Mountains

	Aerial Target
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4849094.548	294294.477	184.335

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-10-2015
RMSE Hz	0.011
RMSE Z	0.015
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP045
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Hanover

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4841941.434	234688.932	151.363

Operator	Marc Nabelek
Receiver Model	Trimble R-7
Receiver S/N	4751
Antenna Height	2.0

Date (MM-DD-YYYY)	11-13-2015
RMSE Hz	0.005
RMSE Z	0.012
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP046
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Rumney

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4853090.037	273360.126	160.042

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-11-2015
RMSE Hz	0.035
RMSE Z	0.041
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP047
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Warren

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4863525.704	262663.620	276.374

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-13-2015
RMSE Hz	0.039
RMSE Z	0.041
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP048
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Piermont

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4869028.991	254700.348	351.789

Operator	Marc Nabelek
Receiver Model	Trimble R-7
Receiver S/N	1100
Antenna Height	2.0

Date (MM-DD-YYYY)	11-13-2015
RMSE Hz	0.034
RMSE Z	0.059
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP049
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Canaan

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4837099.720	256421.771	288.587

Operator	Marc Nabelek
Receiver Model	Trimble R-7
Receiver S/N	1100
Antenna Height	2.0

Date (MM-DD-YYYY)	11-12-2015
RMSE Hz	0.036
RMSE Z	0.037
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP050
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Monadnock Mountain

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4748009.531	247707.129	417.901

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-23-2015
RMSE Hz	0.016
RMSE Z	0.030
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP051
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Sullivan
Quad	Claremont South

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4798426.724	235562.260	445.281

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-14-2015
RMSE Hz	0.01
RMSE Z	0.011
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP052
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Sullivan
Quad	Sunapee Lake North

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4819542.318	248095.967	312.689

Operator	Marc Nabelek
Receiver Model	Trimble R7
Receiver S/N	4751
Antenna Height	2.0

Date (MM-DD-YYYY)	11-15-2015
RMSE Hz	0.012
RMSE Z	0.013
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP053
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Strafford
Quad	Parker Mountain

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4792893.888	319622.833	183.922

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.000

Date (MM-DD-YYYY)	11-20-2015
RMSE Hz	0.018
RMSE Z	0.018
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP054
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Strafford
Quad	Parker Mountain

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4793566.513	327055.368	179.938

Operator	Marc Nabelek
Receiver Model	Trimble R-7
Receiver S/N	4751
Antenna Height	2.0

Date (MM-DD-YYYY)	11-20-2015
RMSE Hz	0.012
RMSE Z	0.013
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP055
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Strafford
Quad	Parker Mountain

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4802747.184	327593.470	262.144

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.000

Date (MM-DD-YYYY)	11-18-2015
RMSE Hz	0.01
RMSE Z	0.014
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP056
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Strafford
Quad	Baxter Lake

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4803401.133	336711.786	89.890

Operator	Marc Nabelek
Receiver Model	Trimble R7
Receiver S/N	1100
Antenna Height	2.0

Date (MM-DD-YYYY)	11-19-2015
RMSE Hz	0.010
RMSE Z	0.014
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP057
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Strafford
Quad	Farmington

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4810939.827	333102.327	180.346

Operator	Marc Nabelek
Receiver Model	Trimble R7
Receiver S/N	4751
Antenna Height	2.0

Date (MM-DD-YYYY)	11-19-2015
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP058
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Strafford
Quad	Milton

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4816243.077	338643.936	139.979

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-19-2015
RMSE Hz	0.010
RMSE Z	0.013
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP059
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Sanbornville

Aerial Target	
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4823006.189	336207.071	167.129

Operator	Mike D'Agostino
Receiver Model	Trimble R7
Receiver S/N	4751
Antenna Height	1.705

Date (MM-DD-YYYY)	11-09-2015
RMSE Hz	0.006
RMSE Z	0.026
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP060
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Sanbornville

Aerial Target	
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4829105.602	337691.645	186.738

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-09-2015
RMSE Hz	0.014
RMSE Z	0.019
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP061
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Sanbornville

	Aerial Target
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4831055.308	331739.320	303.671

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-09-2015
RMSE Hz	0.020
RMSE Z	0.039
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP062
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Melvin Village

Aerial Target	
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4844469.140	312884.996	382.969

Operator	Mike D'Agostino
Receiver Model	Trimble R7
Receiver S/N	4751
Antenna Height	1.726m

Date (MM-DD-YYYY)	11-09-2015
RMSE Hz	0.011
RMSE Z	0.034
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP063
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Newbury

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4881267.980	255021.692	151.031

Operator	Andrew Byron
Receiver Model	Trimble R7
Receiver S/N	1100
Antenna Height	2.0

Date (MM-DD-YYYY)	11-10-2015
RMSE Hz	0.017
RMSE Z	0.022
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP064
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	East Haverhill

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

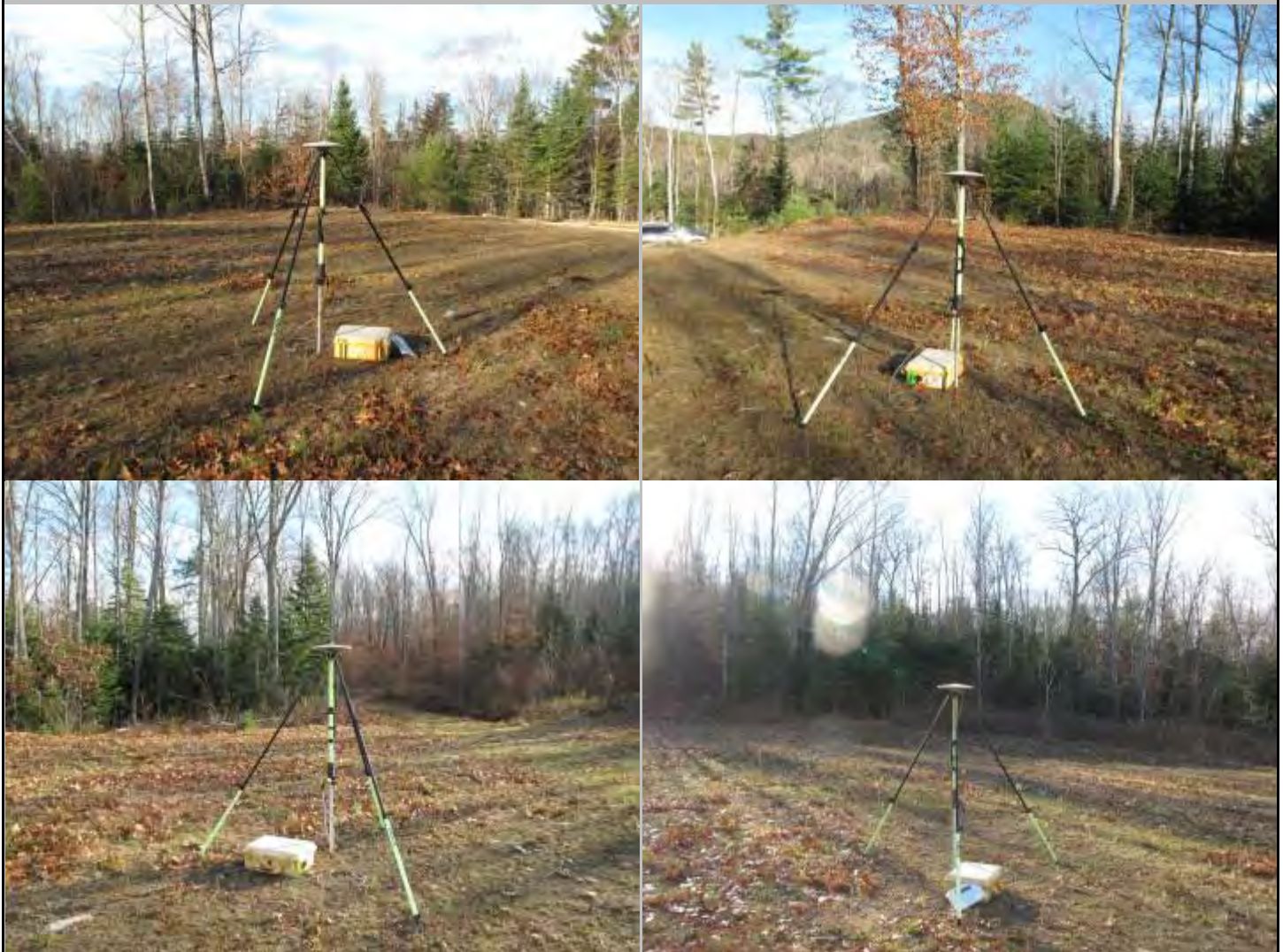
Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4883807.620	263725.033	401.538

Operator	Andrew Byron
Receiver Model	Trimble R7
Receiver S/N	3076
Antenna Height	1.8

Date (MM-DD-YYYY)	11-10-2015
RMSE Hz	0.013
RMSE Z	0.028
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP065
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Newbury

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4888822.975	256640.448	145.957

Operator	Andrew Byron
Receiver Model	Trimble R7
Receiver S/N	1100
Antenna Height	2.0

Date (MM-DD-YYYY)	11-9-2015
RMSE Hz	0.012
RMSE Z	0.018
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP066
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Lisbon

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4891427.292	264336.225	245.792

Operator	Andrew Byron
Receiver Model	Trimble R7
Receiver S/N	1100
Antenna Height	2.0

Date (MM-DD-YYYY)	11-9-2015
RMSE Hz	0.013
RMSE Z	0.018
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP067
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Caledonia

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4895152.053	259261.219	194.667

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-9-2015
RMSE Hz	0.018
RMSE Z	0.039
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP068
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Barnet

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4904721.127	256397.901	160.738

Operator	Andrew Byron
Receiver Model	Trimble R7
Receiver S/N	1100
Antenna Height	2.0

Date (MM-DD-YYYY)	11-09-2015
RMSE Hz	0.007
RMSE Z	0.012
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP069
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Sugar Hill

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4896003.194	272922.544	414.241

Operator	Andrew Byron
Receiver Model	Trimble R-7
Receiver S/N	1100
Antenna Height	2.0

Date (MM-DD-YYYY)	11-11-2015
RMSE Hz	0.014
RMSE Z	0.051
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP070
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Lisbon

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4899636.315	267109.502	170.374

Operator	Andrew Byron
Receiver Model	Trimble R7
Receiver S/N	3076
Antenna Height	2.0

Date (MM-DD-YYYY)	11-09-2015
RMSE Hz	0.008
RMSE Z	0.022
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP071
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Sugar Hill

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4896515.877	280194.115	299.230

Operator	Andrew Byron
Receiver Model	Trimble R7
Receiver S/N	3076
Antenna Height	2.0

Date (MM-DD-YYYY)	11-10-2015
RMSE Hz	0.014
RMSE Z	0.038
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP072
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Sugar Hill

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4898915.101	277117.505	474.230

Operator	Andrew Byron
Receiver Model	Trimble R7
Receiver S/N	1100
Antenna Height	2.0

Date (MM-DD-YYYY)	11-10-2015
RMSE Hz	0.017
RMSE Z	0.019
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP073
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Lower Waterford

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4905435.862	267879.874	203.116

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-09-2015
RMSE Hz	0.031
RMSE Z	0.026
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP074
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Littleton

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

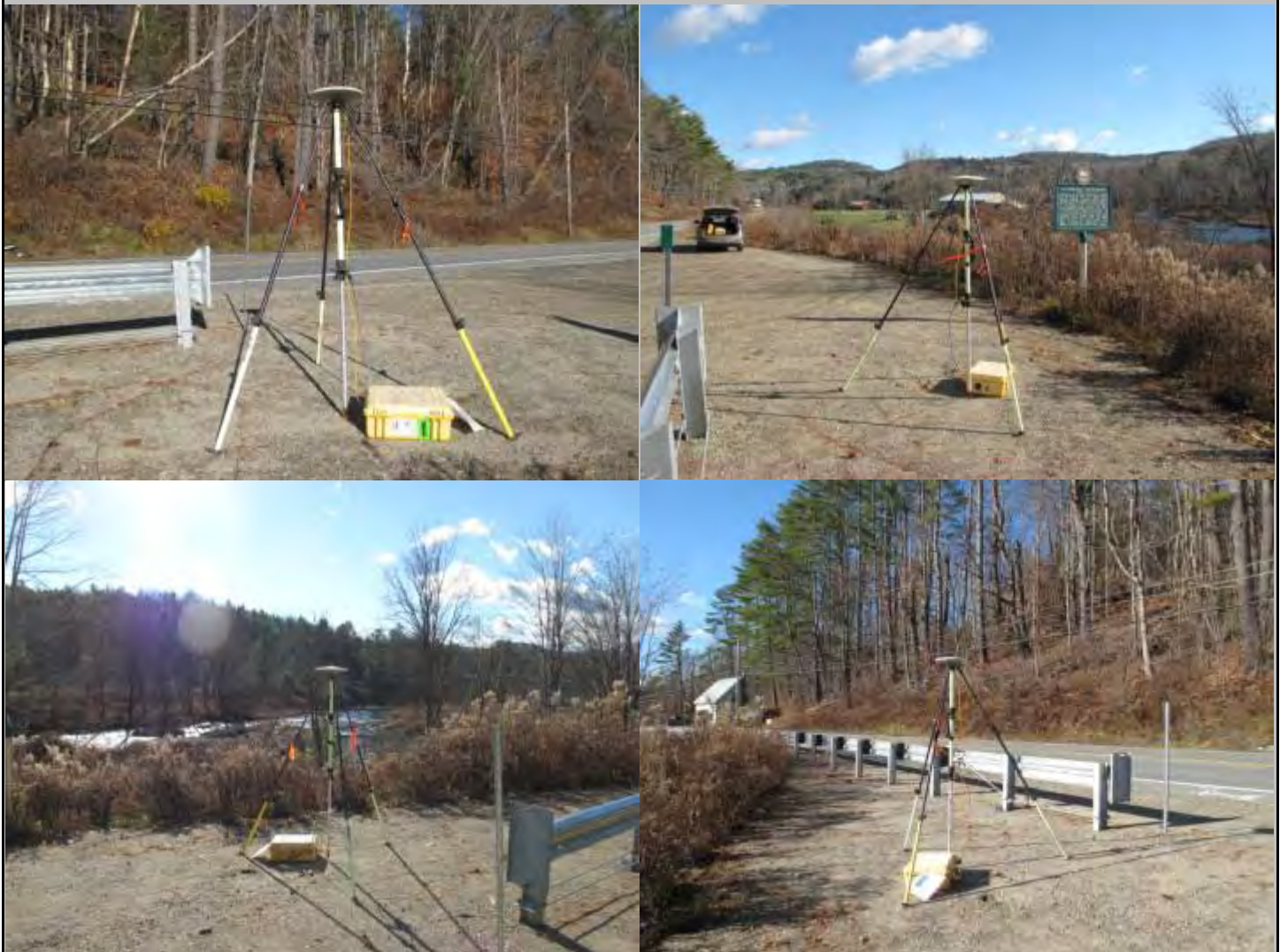
Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4906693.041	275653.700	215.249

Operator	Andrew Byron
Receiver Model	Trimble R-7
Receiver S/N	1100
Antenna Height	2.0

Date (MM-DD-YYYY)	11-8-2015
RMSE Hz	0.017
RMSE Z	0.023
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP075
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Bethlehem

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4911035.333	287680.547	322.943

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-8-2015
RMSE Hz	0.025
RMSE Z	0.029
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP076
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Gilman

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4919790.449	281580.311	302.650

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-8-2015
RMSE Hz	0.028
RMSE Z	0.034
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP077
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Bethlehem

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4906428.506	285558.964	439.848

Operator	Andrew Byron
Receiver Model	Trimble R7
Receiver S/N	3076
Antenna Height	1.8

Date (MM-DD-YYYY)	11-8-2015
RMSE Hz	0.010
RMSE Z	0.025
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP078
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Crawford Notch

Aerial Target	
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4899497.628	307374.570	575.964

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-08-2015
RMSE Hz	0.015
RMSE Z	0.031
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP079
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Twin Mountain

	Aerial Target
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4905411.339	297268.971	432.389

Operator	Mike D'Agostino
Receiver Model	Trimble R7
Receiver S/N	4751
Antenna Height	1.8

Date (MM-DD-YYYY)	11-08-2015
RMSE Hz	0.006
RMSE Z	0.018
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP080
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Mount Washington

Aerial Target	
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4907525.163	312241.621	916.195

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-08-2015
RMSE Hz	0.013
RMSE Z	0.021
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP081
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Lancaster

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4921355.646	292867.222	362.569

Operator	Andrew Byron
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-7-2015
RMSE Hz	0.028
RMSE Z	0.019
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP082
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Mount Dartmouth

	Aerial Target
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4916230.938	305566.994	358.536

Operator	Mike D'Agostino
Receiver Model	Trimble R7
Receiver S/N	2502
Antenna Height	1.663

Date (MM-DD-YYYY)	11-08-2015
RMSE Hz	0.017
RMSE Z	0.018
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP083
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Gilman

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

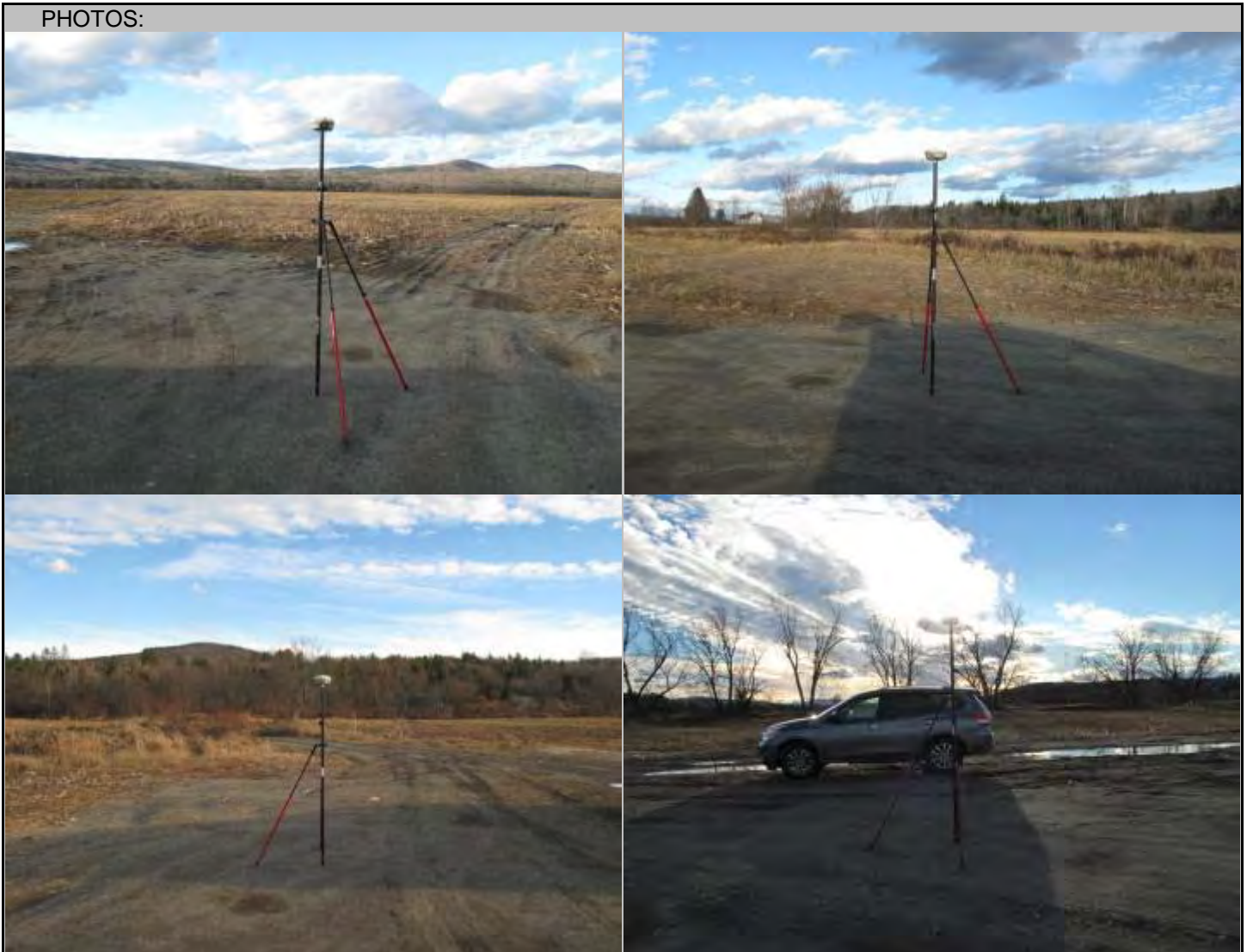
Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4927168.127	290142.350	255.927

Operator	Andrew Byron
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-7-2015
RMSE Hz	0.021
RMSE Z	0.026
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP084
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Twin Mountain

Aerial Target	
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4913875.330	294285.734	350.876

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-08-2015
RMSE Hz	0.015
RMSE Z	0.016
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP085
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Mount Crescent

	Aerial Target
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4919429.050	313217.390	669.373

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-08-2015
RMSE Hz	0.019
RMSE Z	0.019
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP086
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Jefferson

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

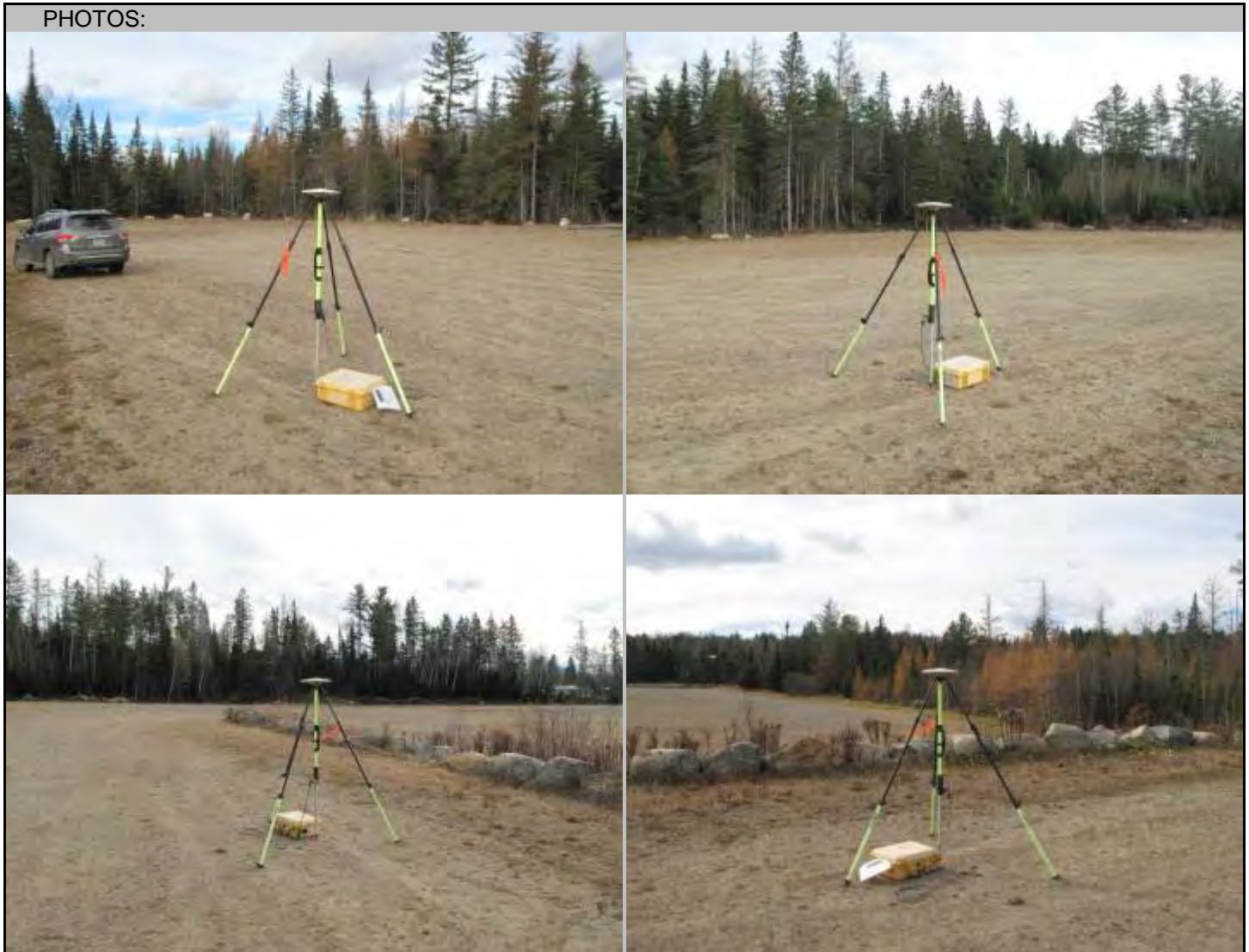
Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4922525.675	301485.510	337.786

Operator	Andrew Byron
Receiver Model	Trimble R-7
Receiver S/N	3076
Antenna Height	1.8

Date (MM-DD-YYYY)	11-7-2015
RMSE Hz	0.020
RMSE Z	0.027
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP087
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Lancaster

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4928579.828	299038.948	308.927

Operator	Andrew Byron
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-7-2015
RMSE Hz	0.015
RMSE Z	0.027
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP088
Project No.	26818
Project Name	BAA CT River QL2 LIDAR
State	NH
County	Coos
Quad	Groveton

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4934612.615	295812.974	265.755

Operator	Andrew Byron
Receiver Model	Trimble R-7
Receiver S/N	1100
Antenna Height	2.0

Date (MM-DD-YYYY)	11-7-2015
RMSE Hz	0.010
RMSE Z	0.025
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP089
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Groveton

Aerial Target	
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4942775.329	299249.852	271.849

Operator	Mike D'Agostino
Receiver Model	Trimble R7
Receiver S/N	4751
Antenna Height	1.8

Date (MM-DD-YYYY)	11-06-2015
RMSE Hz	0.014
RMSE Z	0.013
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP091
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Stark

	Aerial Target
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4940949.867	308431.662	293.225

Operator	Mike D'Agostino
Receiver Model	Trimble R7
Receiver S/N	2502
Antenna Height	1.663

Date (MM-DD-YYYY)	11-06-2015
RMSE Hz	0.014
RMSE Z	0.034
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP092
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	West Milan

x	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4942019.092	319363.735	403.779

Operator	Mike D'Agostino
Receiver Model	Trimble R7
Receiver S/N	4751
Antenna Height	1.668m(slope)

Date (MM-DD-YYYY)	11-07-2015
RMSE Hz	0.011
RMSE Z	0.026
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP093
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	West Milan

	Aerial Target
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4932787.155	320739.718	371.433

Operator	Mike D'Agostino
Receiver Model	Trimble R7
Receiver S/N	2502
Antenna Height	1.8

Date (MM-DD-YYYY)	11-07-2015
RMSE Hz	0.014
RMSE Z	0.037
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP094
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Dummer Ponds

Aerial Target	
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4950355.249	316566.087	445.083

Operator	Mike D'Agostino
Receiver Model	Trimble R7
Receiver S/N	2502
Antenna Height	1.8m

Date (MM-DD-YYYY)	11-07-2015
RMSE Hz	0.010
RMSE Z	0.035
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP095
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Percy Peaks

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4952479.950	310101.398	599.381

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-06-2015
RMSE Hz	0.014
RMSE Z	0.025
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP096
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Percy Peaks

	Aerial Target
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4950627.950	302459.436	489.126

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-06-2015
RMSE Hz	0.014
RMSE Z	0.022
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP097
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Stratford

	Aerial Target
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4957271.076	292485.071	269.882

Operator	Mike D'Agostino
Receiver Model	Trimble R7
Receiver S/N	2502
Antenna Height	1.751

Date (MM-DD-YYYY)	11-06-2015
RMSE Hz	0.010
RMSE Z	0.011
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP098
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Tinkerville

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4960683.231	299793.546	524.490

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-6-2015
RMSE Hz	0.026
RMSE Z	0.023
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP099
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Blue Mountain

	Aerial Target
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4958957.680	308036.648	497.241

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-06-2015
RMSE Hz	0.017
RMSE Z	0.021
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP100
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Tinkerville

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4966526.380	300993.638	575.039

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	1.947

Date (MM-DD-YYYY)	11-6-2015
RMSE Hz	0.031
RMSE Z	0.056
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP101
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Blue Mountain

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4967615.146	310936.439	529.373

Operator	Andrew Byron
Receiver Model	Trimble R7
Receiver S/N	3076
Antenna Height	2.0

Date (MM-DD-YYYY)	11-6-2015
RMSE Hz	0.017
RMSE Z	0.021
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP102
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Lovering Mountain

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4974430.384	305301.741	360.883

Operator	Mike D'Agostino
Receiver Model	Trimble R7
Receiver S/N	4751
Antenna Height	1.642(slope)

Date (MM-DD-YYYY)	11-01-2015
RMSE Hz	0.036
RMSE Z	0.037
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP103
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Dixville Notch

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4971431.159	314785.357	453.935

Operator	Andrew Byron
Receiver Model	Trimble R-7
Receiver S/N	1100
Antenna Height	2.0

Date (MM-DD-YYYY)	11-6-2015
RMSE Hz	0.023
RMSE Z	0.025
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP104
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Monadnock Mountain

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4977566.400	302103.824	317.185

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-01-2015
RMSE Hz	0.017
RMSE Z	0.021
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP105
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Diamond Pond

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

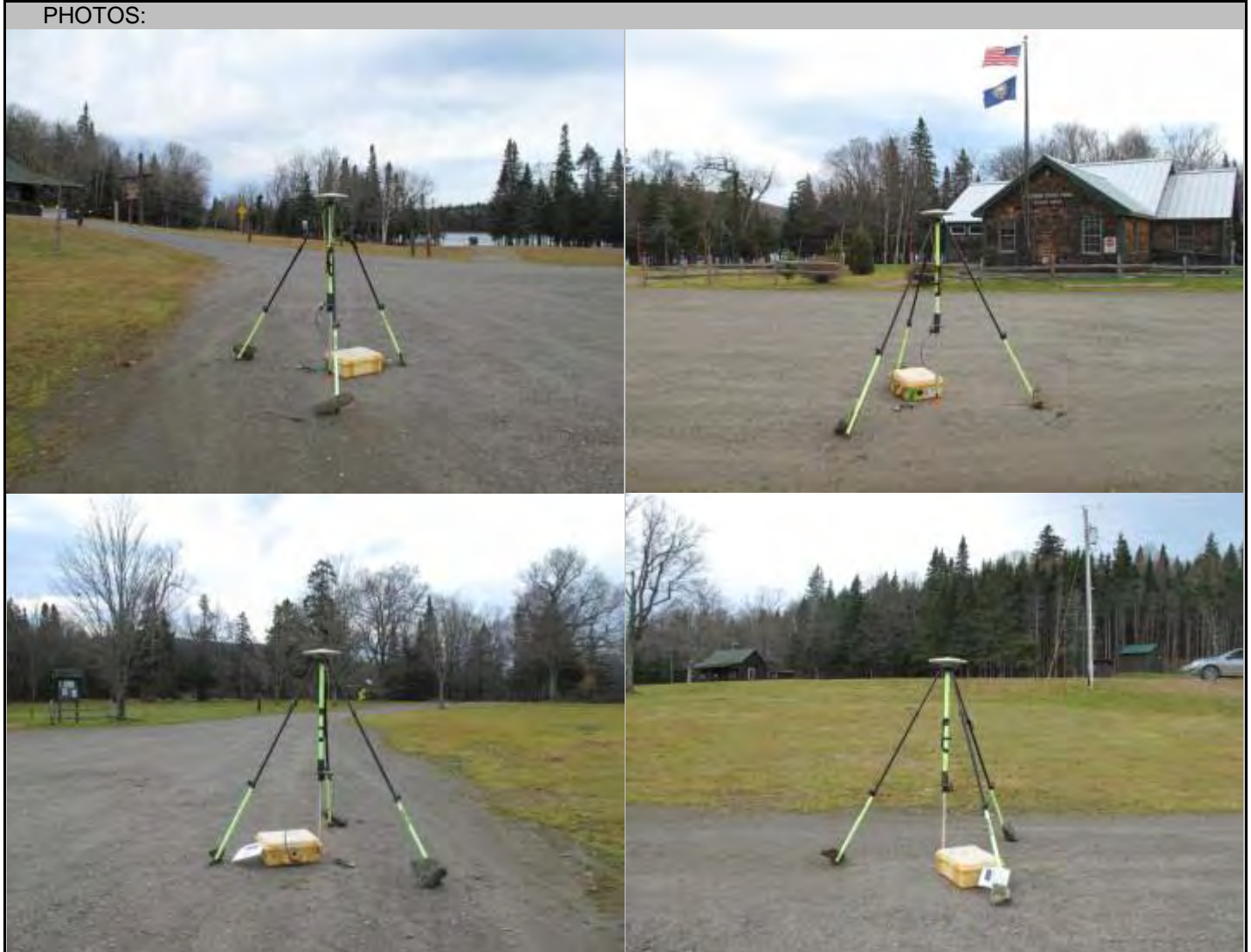
Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4979315.484	316319.269	690.222

Operator	Andrew Byron
Receiver Model	Trimble R7
Receiver S/N	3076
Antenna Height	1.8

Date (MM-DD-YYYY)	11-6-2015
RMSE Hz	0.017
RMSE Z	0.028
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP106
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	VT
County	Essex
Quad	Monadnock Mountain

Aerial Target	
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4985573.092	300119.496	313.272

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-01-2015
RMSE Hz	0.018
RMSE Z	0.016
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP107
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Pittsburg

	Aerial Target
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4985823.953	309382.012	511.602

Operator	Mike D'Agostino
Receiver Model	Trimble R7
Receiver S/N	4751
Antenna Height	1.635(slope)

Date (MM-DD-YYYY)	11-02-2015
RMSE Hz	0.014
RMSE Z	0.025
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP108
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Diamond Pond

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4983063.823	317216.873	640.781

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.250

Date (MM-DD-YYYY)	11-5-2015
RMSE Hz	0.023
RMSE Z	0.027
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP109
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Pittsburg

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4991236.473	303150.093	338.980

Operator	Mike D'Agostino
Receiver Model	Trimble R7
Receiver S/N	4751
Antenna Height	1.8

Date (MM-DD-YYYY)	11-02-2015
RMSE Hz	0.014
RMSE Z	0.039
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP110
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Pittsburg

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4990565.999	312229.359	427.048

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-02-2015
RMSE Hz	0.016
RMSE Z	0.032
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP111
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Lake Francis

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

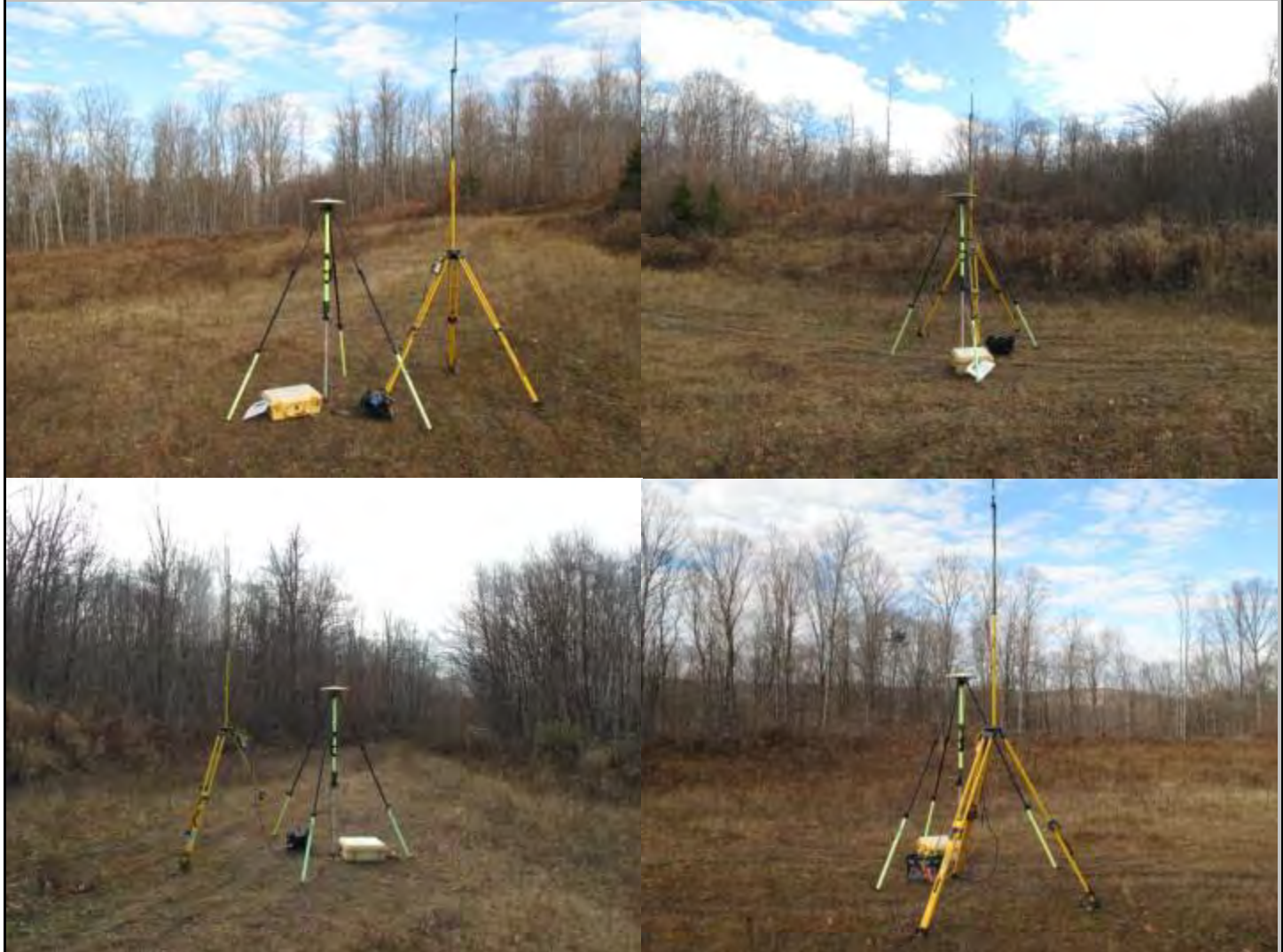
Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4986935.909	320418.969	537.608

Operator	Andrew Byron
Receiver Model	Trimble R7
Receiver S/N	3076
Antenna Height	2.000

Date (MM-DD-YYYY)	11-5-2015
RMSE Hz	0.020
RMSE Z	0.034
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP112
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Pittsburg

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4993309.100	303840.259	339.046

Operator	Mike D'Agostino
Receiver Model	Trimble R7
Receiver S/N	4751
Antenna Height	1.8

Date (MM-DD-YYYY)	11-02-2015
RMSE Hz	0.022
RMSE Z	0.029
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP113
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Pittsburg

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

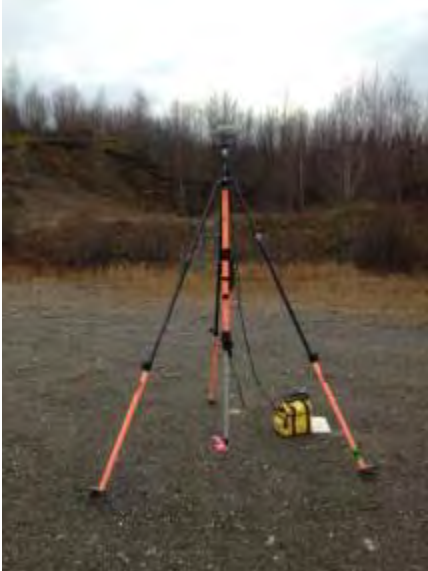
Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4996329.018	312749.201	422.968

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	1.95

Date (MM-DD-YYYY)	11-03-15
RMSE Hz	0.015
RMSE Z	0.036
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP114
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Lake Francis

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4993557.76	318482.482	442.123

Operator	Andrew Byron
Receiver Model	Trimble R-7
Receiver S/N	1100
Antenna Height	2.000 Meters/1.800 Meters

Date (MM-DD-YYYY)	11-5-2015
RMSE Hz	
RMSE Z	
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP115
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Magalloway Mountain

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4992697.084	326509.945	667.216

Operator	Andrew Byron
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.000

Date (MM-DD-YYYY)	11-4-2015
RMSE Hz	0.023
RMSE Z	0.029
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP116
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Metallak Mountain

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

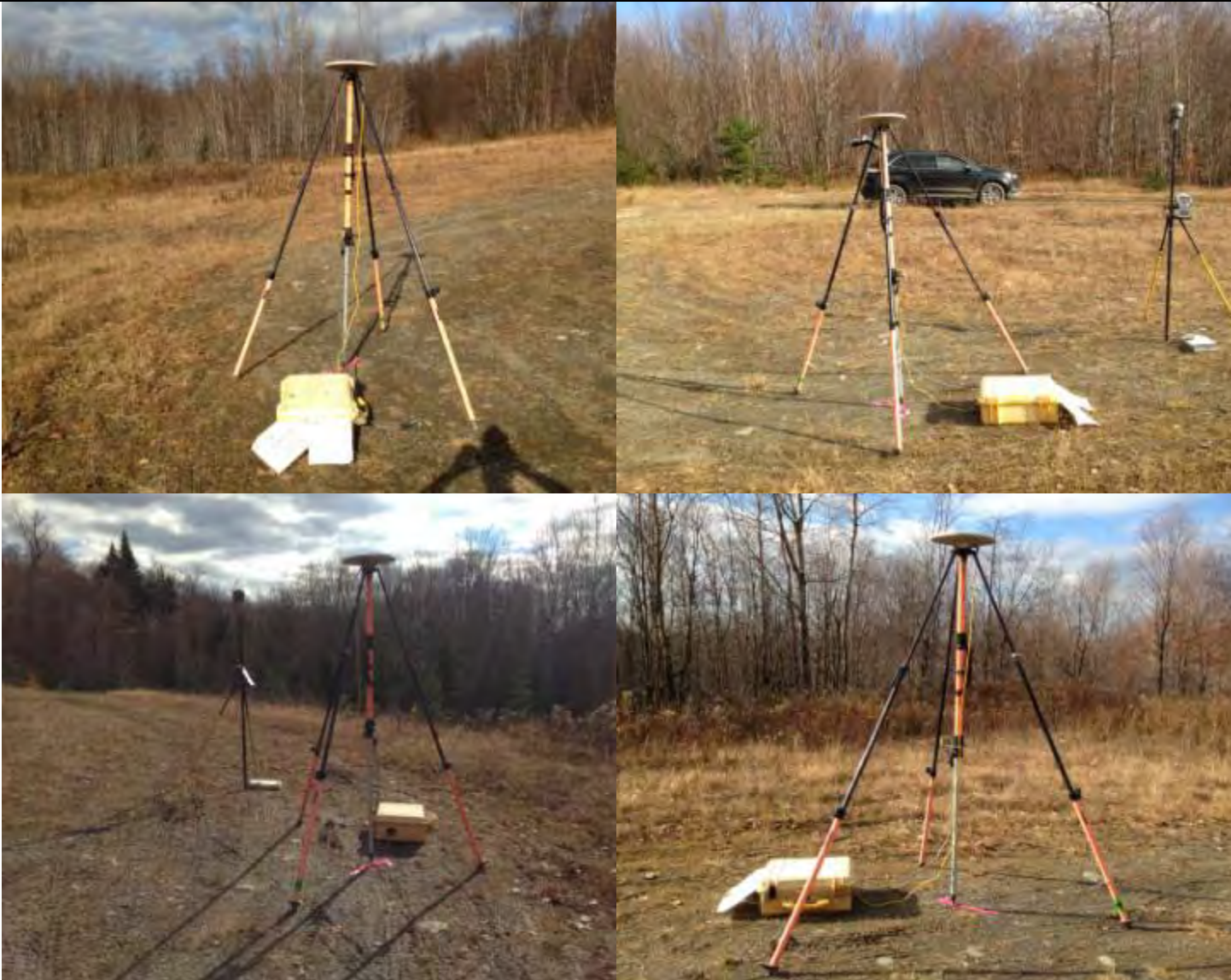
Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
5001595.067	310230.700	543.884

Operator	Mike D'Agostino
Receiver Model	Trimble R7
Receiver S/N	4751
Antenna Height	2.0

Date (MM-DD-YYYY)	11-05-2015
RMSE Hz	0.052
RMSE Z	0.033
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP117
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Cowen Hill

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
5000390.959	314148.438	429.714

Operator	Mike D'Agostino
Receiver Model	Trimble R7
Receiver S/N	4751
Antenna Height	1.617m(slope)

Date (MM-DD-YYYY)	11-03-2015
RMSE Hz	0.017
RMSE Z	0.025
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP118
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Lake Francis

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

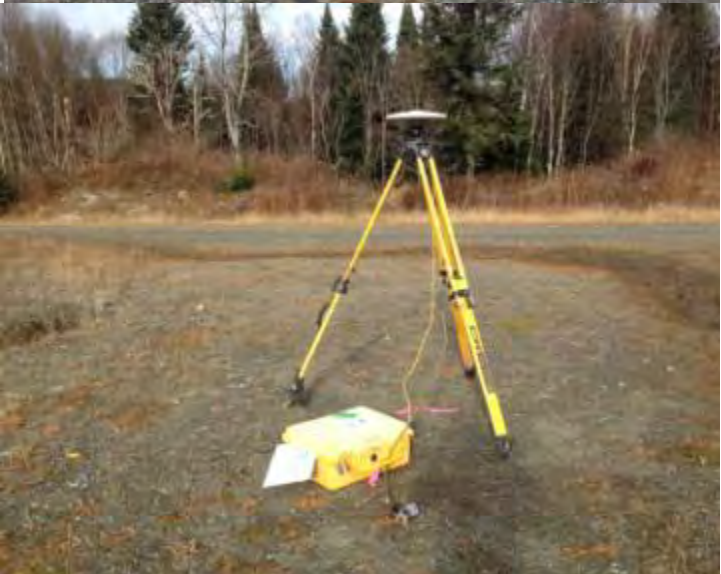
Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4999061.643	318657.623	495.870

Operator	Mike D'Agostino
Receiver Model	Trimble R7
Receiver S/N	2502
Antenna Height	1.713

Date (MM-DD-YYYY)	11-05-2015
RMSE Hz	0.016
RMSE Z	0.038
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP119
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Magalloway Mountain

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

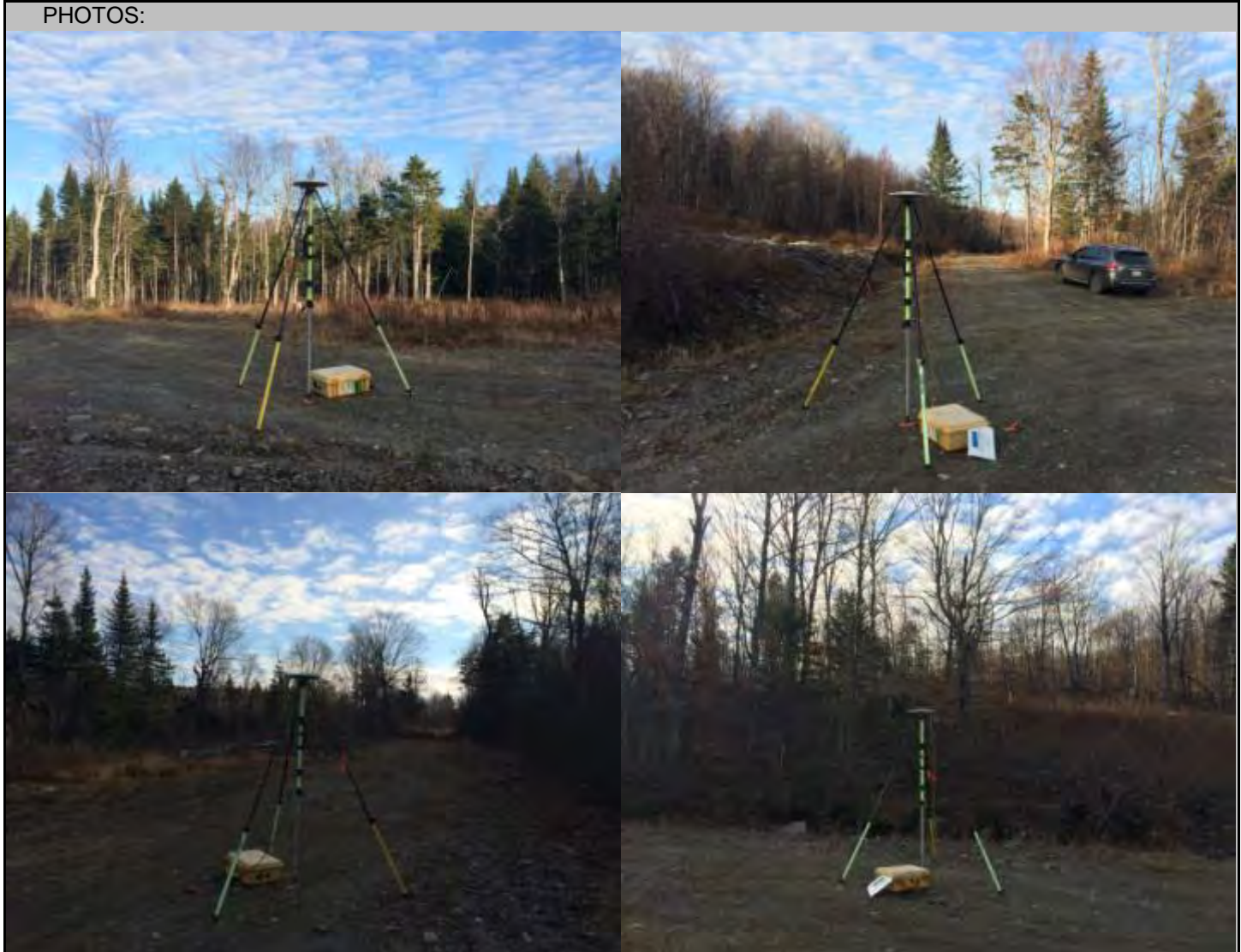
Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4996826.673	328306.703	666.816

Operator	Andrew Byron
Receiver Model	Trimble R-7
Receiver S/N	1100
Antenna Height	2.000

Date (MM-DD-YYYY)	11-4-2015
RMSE Hz	0.021
RMSE Z	0.029
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP121
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Cowen Hill

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
5003578.758	317310.352	557.391

Operator	Mike D'Agostino
Receiver Model	Trimble R7
Receiver S/N	2502
Antenna Height	1.8

Date (MM-DD-YYYY)	11-03-2015
RMSE Hz	0.028
RMSE Z	0.039
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP122
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Cowen Hill

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
5001970.684	323032.967	616.208

Operator	Andrew Byron
Receiver Model	Trimble R-7
Receiver S/N	3076
Antenna Height	1.601

Date (MM-DD-YYYY)	11-4-2015
RMSE Hz	0.027
RMSE Z	0.027
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP123
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	New Hampshire
County	Coos
Quad	Second Connecticut Lake

	Aerial Target
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
5003845.283	330209.836	588.211

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	10-31-2015
RMSE Hz	0.022
RMSE Z	0.033
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP124
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Metallak Mountain

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
5008842.841	311984.890	513.002

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-05-2015
RMSE Hz	0.029
RMSE Z	0.038
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP125
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Cowen Hill

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
5008557.624	318444.661	532.890

Operator	Mike D'Agostino
Receiver Model	Trimble R7
Receiver S/N	4751
Antenna Height	1.695m(slope)

Date (MM-DD-YYYY)	11-03-2015
RMSE Hz	0.026
RMSE Z	0.029
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP126
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Second Connecticut Lake

Aerial Target	
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
5006947.925	324606.318	805.795

Operator	Mike D'Agostino
Receiver Model	Trimble R7
Receiver S/N	4751
Antenna Height	2.0

Date (MM-DD-YYYY)	11-05-2015
RMSE Hz	0.030
RMSE Z	0.043
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP127
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Second Connecticut Lake

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

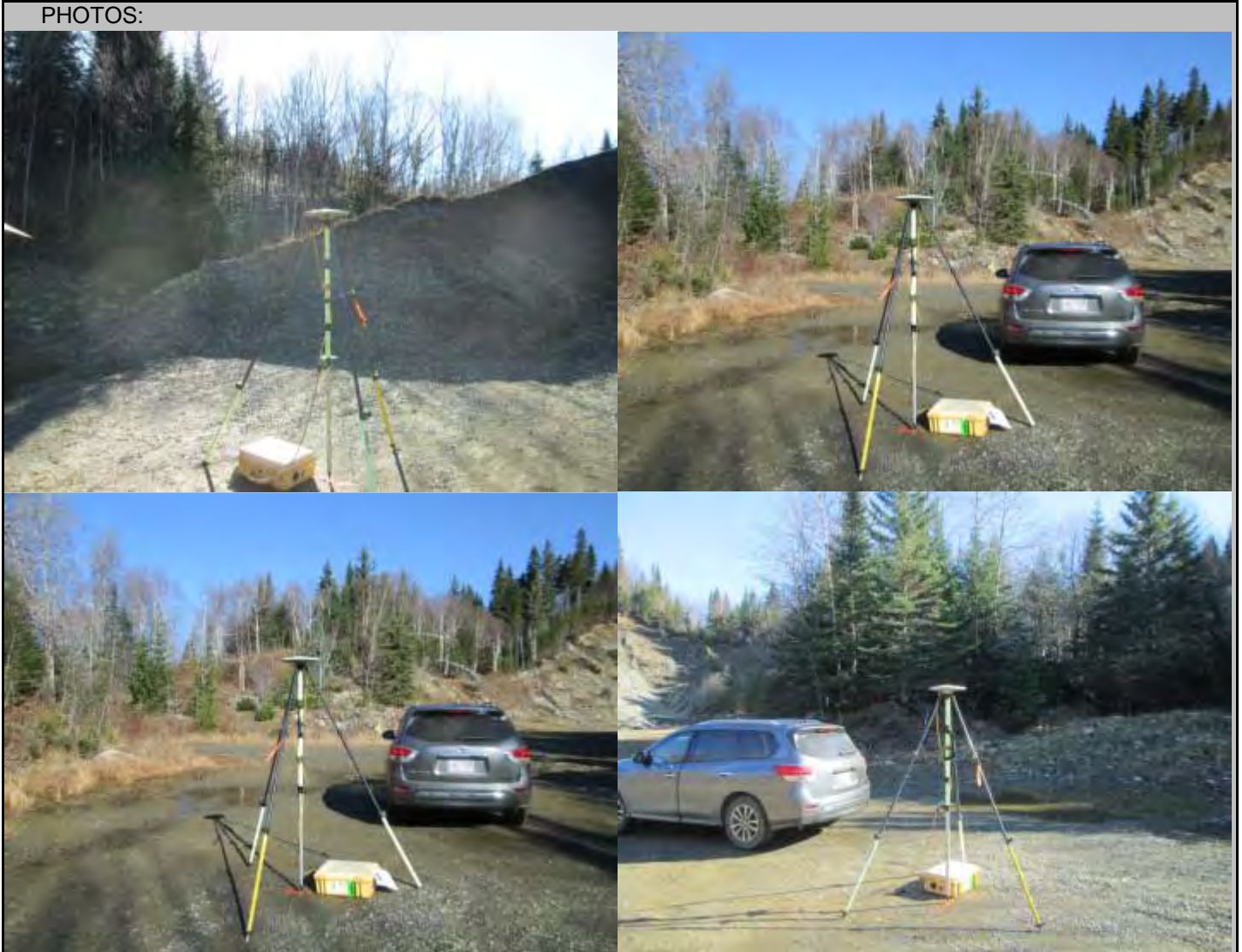
Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
5006733.536	329708.299	584.588

Operator	Andrew Byron
Receiver Model	Trimble R7
Receiver S/N	1100
Antenna Height	2.000

Date (MM-DD-YYYY)	11-4-2015
RMSE Hz	0.026
RMSE Z	0.059
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP128
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Rump Mountain

Aerial Target	
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
5008248.258	334359.773	645.659

Operator	Mike D'Agostino
Receiver Model	Trimble R7
Receiver S/N	4751
Antenna Height	2.0

Date (MM-DD-YYYY)	10-31-2015
RMSE Hz	0.012
RMSE Z	0.017
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP129
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Cowen Hill

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
5012356.322	317560.353	464.787

Operator	Andrew Byron
Receiver Model	Trimble R-7
Receiver S/N	1100
Antenna Height	2.000

Date (MM-DD-YYYY)	11-3-2015
RMSE Hz	0.025
RMSE Z	0.039
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP130
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Greeley Brook

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

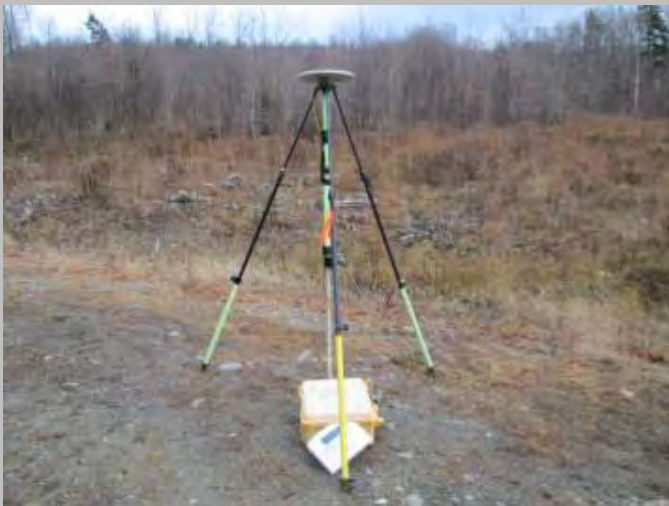
Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
5016036.017	320636.475	587.203

Operator	Andrew Byron
Receiver Model	Trimble R-7
Receiver S/N	3706
Antenna Height	2.0

Date (MM-DD-YYYY)	11-3-2015
RMSE Hz	0.03
RMSE Z	0.038
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP131
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	New Hampshire
County	Coos
Quad	Second Connecticut Lake

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
5011339.494	326676.861	687.139

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-04-2015
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP132
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Second Connecticut Lake

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
5010677.449	332527.989	841.139

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-04-2015
RMSE Hz	0.011
RMSE Z	0.012
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP133
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Rump Mountain

Aerial Target	
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
5011693.79	334983.852	730.112

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	10-31-15
RMSE Hz	0.021
RMSE Z	0.046
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP134
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Moose Bog

Aerial Target	
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
5016078.925	335880.666	654.068

Operator	Mike D'Agostino
Receiver Model	Trimble R7
Receiver S/N	4751
Antenna Height	2.0

Date (MM-DD-YYYY)	10-31-2015
RMSE Hz	0.028
RMSE Z	0.035
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP135
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Moose Bog

Aerial Target	
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
5018135.525	336489.766	704.792

Operator	Mike D'Agostino
Receiver Model	Trimble R7
Receiver S/N	4751
Antenna Height	1.8

Date (MM-DD-YYYY)	10-31-2015
RMSE Hz	0.025
RMSE Z	0.037
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP136
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Center Sandwich

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4857072.158	307418.025	206.039

Operator	Daniel Cassell
Receiver Model	Trimble R10
Receiver S/N	3076
Antenna Height	1.8

Date (MM-DD-YYYY)	11-22-2015
RMSE Hz	0.039
RMSE Z	0.039
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP137
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Tamworth

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4855760.892	312735.203	178.900

Operator	Daniel Cassell
Receiver Model	Trimble R7
Receiver S/N	3076
Antenna Height	1.8

Date (MM-DD-YYYY)	11-22-2015
RMSE Hz	0.021
RMSE Z	0.028
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP138
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Ossipee Lake

	Aerial Target
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4854644.505	322651.965	134.949

Operator	Daniel Cassell
Receiver Model	Trimble R7
Receiver S/N	2502
Antenna Height	2.0

Date (MM-DD-YYYY)	11-21-2015
RMSE Hz	0.016
RMSE Z	0.025
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP139
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Ossipee Lake

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4849106.148	319959.111	277.091

Operator	Daniel Cassell
Receiver Model	Trimble R7
Receiver S/N	2502
Antenna Height	1.5

Date (MM-DD-YYYY)	11-24-2015
RMSE Hz	0.012
RMSE Z	0.015
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP140
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Tuftonboro

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

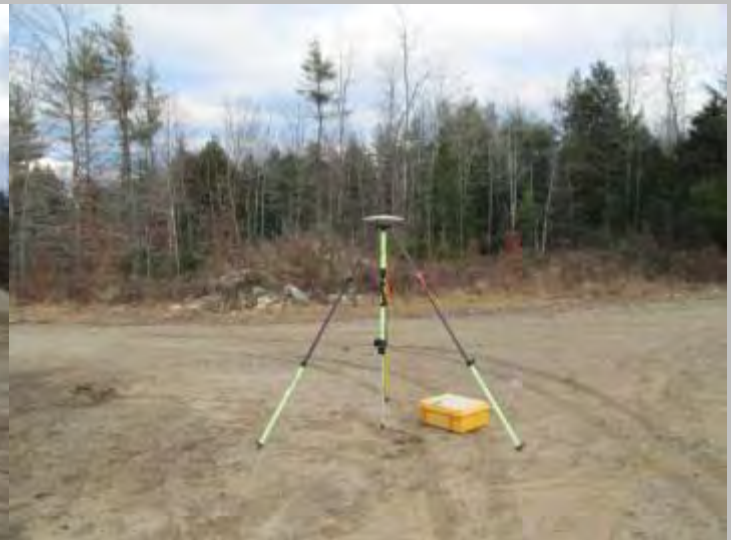
Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4842709.368	325135.542	205.244

Operator	Daniel Cassell
Receiver Model	Trimble R7
Receiver S/N	2502
Antenna Height	1.8

Date (MM-DD-YYYY)	11-24-2015
RMSE Hz	0.012
RMSE Z	0.020
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP141
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Ossipee

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4838023.753	332196.67	152.466

Operator	Daniel Cassell
Receiver Model	Trimble R7
Receiver S/N	3076
Antenna Height	1.8

Date (MM-DD-YYYY)	11-24-2015
RMSE Hz	0.014
RMSE Z	0.016
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP142
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	West Newfield

	Aerial Target
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4833993.313	340328.134	181.567

Operator	Daniel Cassell
Receiver Model	Trimble R7
Receiver S/N	2502
Antenna Height	1.5

Date (MM-DD-YYYY)	11-23-2015
RMSE Hz	0.016
RMSE Z	0.021
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP143
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Kezar Falls

Aerial Target	
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4847441.728	339127.925	176.984

Operator	Daniel Cassell
Receiver Model	Trimble R7
Receiver S/N	2502
Antenna Height	2.0

Date (MM-DD-YYYY)	11-23-2015
RMSE Hz	0.015
RMSE Z	0.030
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP144
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Freedom

Aerial Target	
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4853001.782	333807.538	140.876

Operator	Daniel Cassell
Receiver Model	Trimble R7
Receiver S/N	3076
Antenna Height	1.8

Date (MM-DD-YYYY)	11-23-2015
RMSE Hz	0.011
RMSE Z	0.038
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP145
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Ossipee Lake

	Aerial Target
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4847231.904	327738.278	130.403

Operator	Daniel Cassell
Receiver Model	Trimble R7
Receiver S/N	23076
Antenna Height	1.8

Date (MM-DD-YYYY)	11-23-2015
RMSE Hz	0.026
RMSE Z	0.041
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP146
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Ossipee

Aerial Target	
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4844369.651	338379.780	128.918

Operator	Daniel Cassell
Receiver Model	Trimble R7
Receiver S/N	3076
Antenna Height	1.8

Date (MM-DD-YYYY)	11-23-2015
RMSE Hz	0.011
RMSE Z	0.023
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP147
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Mount Chocorua

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4862523.900	315423.775	226.759

Operator	Daniel Cassell
Receiver Model	Trimble R7
Receiver S/N	2502
Antenna Height	2.0

Date (MM-DD-YYYY)	11-21-2015
RMSE Hz	0.041
RMSE Z	0.052
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP148
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Silver Lake

Aerial Target	
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4860800.685	321599.248	161.161

Operator	Daniel Cassell
Receiver Model	Trimble R7
Receiver S/N	2502
Antenna Height	2.0

Date (MM-DD-YYYY)	11-21-2015
RMSE Hz	0.024
RMSE Z	0.039
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP150
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Silver Lake

Aerial Target	
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4869764.116	324053.564	207.047

Operator	Daniel Cassell
Receiver Model	Trimble R7
Receiver S/N	2502
Antenna Height	2.0

Date (MM-DD-YYYY)	11-21-2015
RMSE Hz	0.026
RMSE Z	0.033
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP151
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Silver Lake

	Aerial Target
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4873700.342	329264.326	150.157

Operator	Daniel Cassell
Receiver Model	Trimble R7
Receiver S/N	2502
Antenna Height	2.0

Date (MM-DD-YYYY)	11-21-2015
RMSE Hz	0.014
RMSE Z	0.012
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP_ADD1
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Littleton

Aerial Target	
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4912792.066	275738.950	311.291

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-8-2015
RMSE Hz	0.029
RMSE Z	0.034
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP_ALT1
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Pittsburg

	Aerial Target
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4995423.458	306065.696	364.022

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-01-2015
RMSE Hz	0.014
RMSE Z	0.016
GPS Method	STATIC/RTK

PHOTOS:





Point ID	CP_ALT2
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Dixville Notch

Aerial Target	
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4958624.007	316368.614	601.778

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-07-2015
RMSE Hz	0.021
RMSE Z	0.028
GPS Method	STATIC/RTK

PHOTOS:





Bare Earth Point Log Sheets



Point ID	BE001
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Moose Bog

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
5018136.639	336505.758	707.213

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	10-31-2015
RMSE Hz	0.011
RMSE Z	0.013
GPS Method	STATIC/RTK

PHOTOS:





Point ID	BE003
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4990729.725	312269.118	405.982

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-03-2015
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	STATIC/RTK

PHOTOS:





Point ID	BE004
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Cowen Hill

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
5008532.211	318518.102	536.882

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-03-2015
RMSE Hz	0.030
RMSE Z	0.032
GPS Method	STATIC/RTK

PHOTOS:

No photos available.



Point ID	BE005
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Second Connecticut Lake

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
5010671.255	332538.721	842.288

Operator	Andrew Byron
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-04-2015
RMSE Hz	0.014
RMSE Z	0.021
GPS Method	STATIC/RTK

PHOTOS:





Point ID	BE006
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Second Connecticut Lake

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
5005919.543	324193.475	775.436

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-05-2015
RMSE Hz	0.007
RMSE Z	0.008
GPS Method	STATIC/RTK

PHOTOS:





Point ID	BE007
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Lovering Mountain

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4979383.922	312026.826	513.849

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-06-2015
RMSE Hz	0.019
RMSE Z	0.026
GPS Method	STATIC/RTK

PHOTOS:

No photos available.



Point ID	BE008
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Gilman

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4923229.060	288242.122	260.381

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-11-2015
RMSE Hz	0.018
RMSE Z	0.020
GPS Method	STATIC/RTK

PHOTOS:





Point ID	BE009
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Lisbon

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4898152.491	265605.514	182.407

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-09-2015
RMSE Hz	0.020
RMSE Z	0.040
GPS Method	STATIC/RTK

PHOTOS:





Point ID	BE010
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Franconia

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4895334.122	284060.329	611.821

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-10-2015
RMSE Hz	0.014
RMSE Z	0.024
GPS Method	STATIC/RTK

PHOTOS:





Point ID	BE011
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Sugar Hill

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4890102.081	277959.761	452.201

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-10-2015
RMSE Hz	0.019
RMSE Z	0.022
GPS Method	STATIC/RTK

PHOTOS:





Point ID	BE012
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Piermont

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4868735.517	254903.055	340.887

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-13-2015
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	STATIC/RTK

PHOTOS:





Point ID	BE013
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Andover

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4812688.359	267754.905	199.061

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-15-2015
RMSE Hz	0.015
RMSE Z	0.024
GPS Method	STATIC/RTK

PHOTOS:





Point ID	BE014
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Enfield

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4837714.101	243399.285	231.121

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.000

Date (MM-DD-YYYY)	11-16-2015
RMSE Hz	0.011
RMSE Z	0.012
GPS Method	STATIC/RTK

PHOTOS:





Point ID	BE015
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Danbury

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4823282.338	268607.584	249.245

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.000

Date (MM-DD-YYYY)	11-16-2015
RMSE Hz	0.032
RMSE Z	0.036
GPS Method	STATIC/RTK

PHOTOS:





Point ID	BE017
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Andover

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4813686.898	275915.481	195.544

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-17-2015
RMSE Hz	0.007
RMSE Z	0.012
GPS Method	STATIC/RTK

PHOTOS:





Point ID	BE018
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Alton

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4813434.574	319079.772	200.094

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.000

Date (MM-DD-YYYY)	11-18-2015
RMSE Hz	0.027
RMSE Z	0.023
GPS Method	STATIC/RTK

PHOTOS:





Point ID	BE019
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Strafford
Quad	Baxter Lake

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4804163.634	328082.085	206.648

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.000

Date (MM-DD-YYYY)	11-18-2015
RMSE Hz	0.015
RMSE Z	0.02
GPS Method	STATIC/RTK

PHOTOS:





Point ID	BE020
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Strafford
Quad	Baxter Lake

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4803372.598	336709.194	89.589

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-19-2015
RMSE Hz	0.007
RMSE Z	0.008
GPS Method	STATIC/RTK

PHOTOS:





Point ID	BE021
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Strafford
Quad	Farmington

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4815942.124	332611.465	233.091

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-19-2015
RMSE Hz	0.035
RMSE Z	0.034
GPS Method	STATIC/RTK

PHOTOS:





Point ID	BE022
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Strafford
Quad	Milton

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4810924.561	339170.016	128.731

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-19-2015
RMSE Hz	0.008
RMSE Z	0.012
GPS Method	STATIC/RTK

PHOTOS:





Point ID	BE023
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Strafford
Quad	Parker Mountain

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4793569.951	327060.438	180.000

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-20-2015
RMSE Hz	0.009
RMSE Z	0.014
GPS Method	STATIC/RTK

PHOTOS:





Point ID	BE024
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Silver Lake

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4871669.517	328911.705	143.832

Operator	Daniel Cassell
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-21-2015
RMSE Hz	0.021
RMSE Z	0.023
GPS Method	STATIC/RTK

PHOTOS:





Point ID	BE025
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Monadnock Mountain

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4748018.485	247705.130	418.161

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.000 M

Date (MM-DD-YYYY)	11-23-2015
RMSE Hz	0.012
RMSE Z	0.018
GPS Method	STATIC/RTK

PHOTOS:





Point ID	BE026
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	West Newfield

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4834000.184	340330.228	181.706

Operator	Daniel Cassell
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-23-2015
RMSE Hz	0.016
RMSE Z	0.020
GPS Method	STATIC/RTK

PHOTOS:





Point ID	BE027
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Hillsborough
Quad	Peterborough North

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4755878.863	260073.894	211.127

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-24-2015
RMSE Hz	0.030
RMSE Z	0.040
GPS Method	STATIC/RTK

PHOTOS:





Point ID	BE028
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Tuftonboro

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

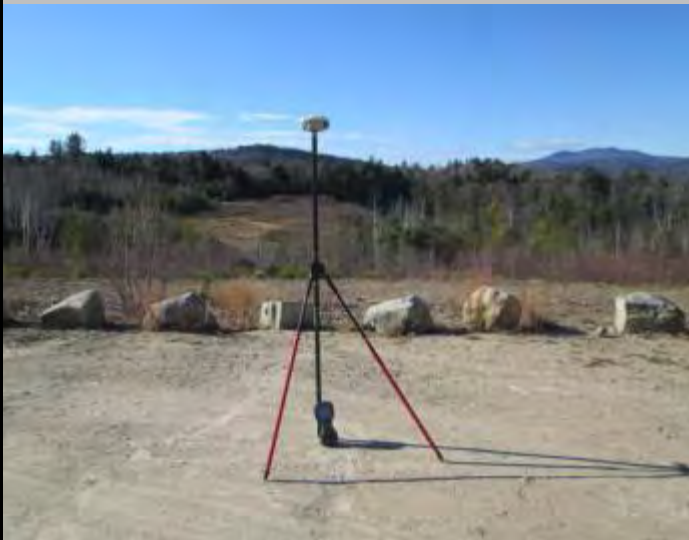
Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4843631.124	328774.170	183.278

Operator	Daniel Cassell
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-24-2015
RMSE Hz	0.019
RMSE Z	0.021
GPS Method	STATIC/RTK

PHOTOS:





Point ID	BE030
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Groveton

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4935641.237	295924.767	272.285

Operator	Andrew Byron
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.000

Date (MM-DD-YYYY)	11-7-2015
RMSE Hz	0.008
RMSE Z	0.015
GPS Method	STATIC/RTK

PHOTOS:





Point ID	BE031
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Monadnock Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4972178.904	301169.659	310.611

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-16-2015
RMSE Hz	0.017
RMSE Z	0.018
GPS Method	STATIC/RTK





Point ID	BE032
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Stratford

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4955303.740	293866.918	294.440

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-16-2015
RMSE Hz	0.016
RMSE Z	0.020
GPS Method	STATIC/RTK

PHOTOS:





Point ID	BE033
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Miount Washington

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4914280.644	311811.257	447.495

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-17-2015
RMSE Hz	0.016
RMSE Z	0.020
GPS Method	STATIC/RTK





Point ID	BE034
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	New Hampshire
County	Gafton
Quad	Littleton

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4909844.444	279833.751	254.757

Operator	Marc Nabelek
Receiver Model	Trimble R-7
Receiver S/N	R8-7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-17-2015
RMSE Hz	0.015
RMSE Z	0.016
GPS Method	STATIC/RTK





Urban Area Point Log Sheets



Point ID	UA001
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Moose Bog

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
5016675.403	335399.899	726.926

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	10-31-2015
RMSE Hz	0.036
RMSE Z	0.037
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA002
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Lovering Mountain

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4974334.813	302971.364	311.748

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-01-2015
RMSE Hz	0.013
RMSE Z	0.017
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA003
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Monadnock Mountain

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4985509.207	300495.653	319.971

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-01-2015
RMSE Hz	0.017
RMSE Z	0.028
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA004
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Essex
Quad	Pittsburg OE E

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4986919.443	302304.686	330.215

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-01-2015
RMSE Hz	0.012
RMSE Z	0.013
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA005
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Pittsburg

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4985835.769	309342.018	510.734

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-01-2015
RMSE Hz	0.008
RMSE Z	0.009
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA006
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Pittsburg

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4991491.441	311747.735	406.048

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-01-2015
RMSE Hz	0.013
RMSE Z	0.016
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA011
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Lake Francis

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4995040.378	318334.513	476.247

Operator	Mike D'Agostino
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-05-2015
RMSE Hz	0.015
RMSE Z	0.014
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA012
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Maidstone Lake

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4958429.704	292165.325	295.072

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-06-2015
RMSE Hz	0.015
RMSE Z	0.015
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA013
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Percy Peaks

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4944588.868	304269.644	285.755

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-06-2015
RMSE Hz	0.015
RMSE Z	0.026
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA014
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Groveton

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4941121.068	300681.551	266.268

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-06-2015
RMSE Hz	0.012
RMSE Z	0.018
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA015
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Bethlehem

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4913481.005	289414.719	339.939

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-08-2015
RMSE Hz	0.019
RMSE Z	0.019
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA016
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Littleton

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4910224.439	277213.596	244.572

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-8-2015
RMSE Hz	0.014
RMSE Z	0.020
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA017
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Jefferson

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4917576.845	306957.164	415.120

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-08-2015
RMSE Hz	0.020
RMSE Z	0.023
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA018
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Mount Dartmouth

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4916467.292	303673.450	335.937

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-8-2015
RMSE Hz	0.014
RMSE Z	0.015
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA019
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Mount Dartmouth

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4914920.188	309871.457	477.537

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-8-2015
RMSE Hz	0.014
RMSE Z	0.016
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA020
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Twin Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4905425.457	297313.802	433.855

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0 Meters

Date (MM-DD-YYYY)	11-8-2015
RMSE Hz	0.008
RMSE Z	0.009
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA021
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Mount Dartmouth

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4904179.211	303682.662	477.539

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-08-2015
RMSE Hz	0.018
RMSE Z	0.022
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA022
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Barnet

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4909615.385	259986.540	249.198

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-09-2015
RMSE Hz	0.016
RMSE Z	0.024
GPS Method	STATIC/RTK

PHOTOS:

No photos available.



Point ID	UA023
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Newbury

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4885984.480	258250.294	151.941

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0 Meters

Date (MM-DD-YYYY)	11-09-2015
RMSE Hz	0.035
RMSE Z	0.044
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA024
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Lisbon

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4898201.782	265598.214	177.600

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-09-2015
RMSE Hz	0.023
RMSE Z	0.030
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA025
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Wolfeboro

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4826938.543	323467.577	210.127

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-09-2015
RMSE Hz	0.025
RMSE Z	0.031
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA026
Project No.	26818
Project Name	BAA CT River QL2 LIDAR
State	NH
County	Carroll
Quad	Tuftonboro

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4833157.518	326003.780	188.174

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-9-2015
RMSE Hz	0.017
RMSE Z	0.026
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA027
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Sanbornville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4830969.091	335413.563	287.034

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-9-2015
RMSE Hz	0.022
RMSE Z	0.033
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA028
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Wolfeboro

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4831668.175	324981.466	170.741

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-9-2015
RMSE Hz	0.013
RMSE Z	0.024
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA029
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Center Sandwich

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4853392.864	303681.576	205.717

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-10-2015
RMSE Hz	0.026
RMSE Z	0.022
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA030
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Center Sandwich

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4847530.490	307078.208	188.575

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-10-2015
RMSE Hz	0.012
RMSE Z	0.014
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA031
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Holderness

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4835118.343	297600.631	193.512

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-10-2015
RMSE Hz	0.012
RMSE Z	0.014
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA032
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Center Harbor

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4837631.339	298473.189	154.992

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-10-2015
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA033
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Bethlehem

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

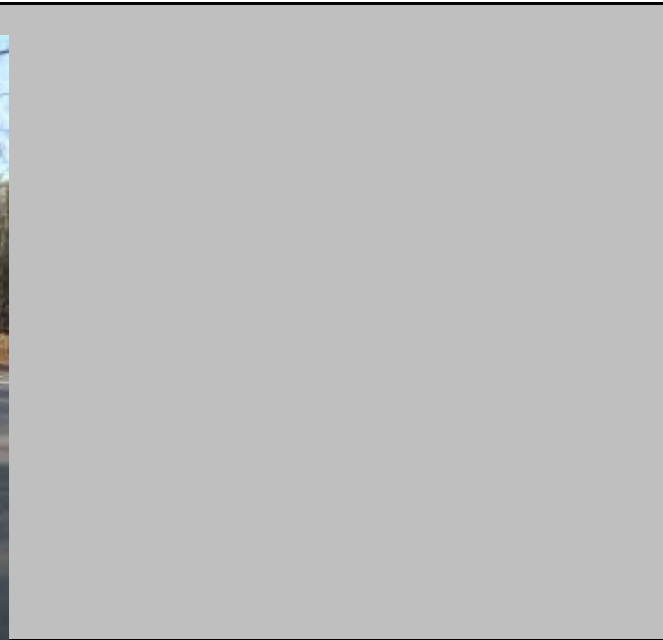
Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4903603.880	284339.953	465.716

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-10-2015
RMSE Hz	0.023
RMSE Z	0.024
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA034
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Franconia

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4899762.793	281867.120	300.457

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-10-2015
RMSE Hz	0.028
RMSE Z	0.044
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA035
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Franconia

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4897945.398	285070.582	464.048

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-10-2015
RMSE Hz	0.023
RMSE Z	0.035
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA036
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Sugar Hill

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4899036.865	277237.964	477.930

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-10-2015
RMSE Hz	0.019
RMSE Z	0.021
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA037
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	East Haverhill

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4887431.041	267777.494	388.764

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-10-2015
RMSE Hz	0.018
RMSE Z	0.027
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA038
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	East Haverhill

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4878514.639	262734.492	242.270

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-10-2015
RMSE Hz	0.015
RMSE Z	0.028
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA039
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Bristol

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4832571.587	287173.254	165.997

Operator	Mike D'Agostino
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-11-2015
RMSE Hz	0.012
RMSE Z	0.014
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA040
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Newfound Lake

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4841661.392	273901.499	189.360

Operator	Mike D'Agostino
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-11-2015
RMSE Hz	0.020
RMSE Z	0.016
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA041
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Bristol

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4830188.264	278693.939	140.445

Operator	Mike D'Agostino
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-11-2015
RMSE Hz	0.013
RMSE Z	0.019
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA042
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Winnisquam Lake

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4833211.033	290230.935	177.492

Operator	Mike D'Agostino
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-11-2015
RMSE Hz	0.013
RMSE Z	0.015
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA043
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Ashland

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4835974.049	286427.875	156.269

Operator	Mike D'Agostino
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-11-2015
RMSE Hz	0.036
RMSE Z	0.038
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA044
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Hanover

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4845889.949	236419.666	160.596

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-13-2015
RMSE Hz	0.008
RMSE Z	0.009
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA045
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Fairlee

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4863349.348	246459.573	133.292

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-13-2015
RMSE Hz	0.013
RMSE Z	0.018
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA046
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Sullivan
Quad	Claremont North

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4821051.657	234672.309	258.189

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-14-2015
RMSE Hz	0.014
RMSE Z	0.016
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA047
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Sullivan
Quad	Claremont North

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4809775.647	229612.339	194.985

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-14-2015
RMSE Hz	0.026
RMSE Z	0.045
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA048
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Sullivan
Quad	Bellows Falls

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4793949.343	222074.308	118.730

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-14-2015
RMSE Hz	0.021
RMSE Z	0.029
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA049
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Sullivan
Quad	Claremont South

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4798440.043	235569.705	445.560

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-14-2015
RMSE Hz	0.015
RMSE Z	0.021
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA050
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Andover

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4812676.027	267746.046	199.910

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-15-2015
RMSE Hz	0.015
RMSE Z	0.025
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA051
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Canaan

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4837036.323	256926.967	288.230

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.000

Date (MM-DD-YYYY)	11-16-2015
RMSE Hz	0.021
RMSE Z	0.020
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA052
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Northfield

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4813133.170	290534.454	138.434

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.000

Date (MM-DD-YYYY)	11-16-2015
RMSE Hz	0.019
RMSE Z	0.019
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA053
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Sullivan
Quad	North Grantham

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4821187.317	246868.720	313.092

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-17-2015
RMSE Hz	0.017
RMSE Z	0.020
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA054
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Northfield

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4815899.163	293977.280	161.420

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-17-2015
RMSE Hz	0.013
RMSE Z	0.016
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA055
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Gilmanton Ironworks

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4808995.769	317356.086	266.711

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.000

Date (MM-DD-YYYY)	11-18-2015
RMSE Hz	0.021
RMSE Z	0.028
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA056
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Alton

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4813876.695	320320.351	171.736

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.000

Date (MM-DD-YYYY)	11-18-2015
RMSE Hz	0.015
RMSE Z	0.019
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA057
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Laconia

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4821500.460	302535.783	229.985

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.000

Date (MM-DD-YYYY)	11-18-2015
RMSE Hz	0.013
RMSE Z	0.013
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA058
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Winnisquam Lake

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4823788.386	293656.119	263.315

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.000

Date (MM-DD-YYYY)	11-18-2015
RMSE Hz	0.015
RMSE Z	0.025
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA059
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Laconia

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4826658.910	303967.853	162.926

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.000

Date (MM-DD-YYYY)	11-18-2015
RMSE Hz	0.01
RMSE Z	0.013
GPS Method	STATIC/RTK

PHOTOS:

No photos available.



Point ID	UA060
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Stafford
Quad	Farmington

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4815959.534	332590.142	233.396

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-19-2015
RMSE Hz	0.014
RMSE Z	0.014
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA061
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Strafford
Quad	Milton

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4810927.529	339171.908	128.891

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-19-2015
RMSE Hz	0.009
RMSE Z	0.012
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA062
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Hillsborough
Quad	Hillsboro

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4777967.136	264976.413	171.395

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-20-2015
RMSE Hz	0.017
RMSE Z	0.028
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA063
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Stoddard

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4769678.764	249453.422	392.036

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-20-2015
RMSE Hz	0.017
RMSE Z	0.023
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA064
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Strafford
Quad	Baxter Lake

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4798949.754	332035.720	206.530

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-20-2015
RMSE Hz	0.011
RMSE Z	0.011
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA065
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Strafford
Quad	Northwood

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4786381.667	327078.458	154.296

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-20-2015
RMSE Hz	0.031
RMSE Z	0.043
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA066
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Hopkinton

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4784092.750	281167.298	146.755

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-20-2015
RMSE Hz	0.015
RMSE Z	0.022
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA067
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Keene

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4757540.811	231538.276	143.240

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-21-2015
RMSE Hz	0.008
RMSE Z	0.007
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA068
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Walpole

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4767045.177	219853.097	125.354

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-21-2015
RMSE Hz	0.012
RMSE Z	0.015
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA069
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Sullivan
Quad	Alstead

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4787263.158	233048.737	254.366

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-21-2015
RMSE Hz	0.020
RMSE Z	0.031
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA070
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Northfield

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4736405.229	217903.429	90.102

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-22-2015
RMSE Hz	0.023
RMSE Z	0.032
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA071
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	West Swanzey

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4738761.293	232248.053	323.831

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-22-2015
RMSE Hz	0.027
RMSE Z	0.024
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA072
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Troy

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4741343.588	243094.207	348.638

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-22-2015
RMSE Hz	0.019
RMSE Z	0.022
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA073
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Ashburnham

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4735374.956	257675.001	366.233

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-22-2015
RMSE Hz	0.017
RMSE Z	0.025
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA074
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Center Sandwich

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4856911.692	307271.920	210.299

Operator	Daniel Cassell
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-22-2015
RMSE Hz	0.015
RMSE Z	0.018
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA075
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Gilsum

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4771327.525	234697.981	268.525

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-23-2015
RMSE Hz	0.022
RMSE Z	0.032
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA076
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Dublin

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4759422.280	247152.163	408.491

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-23-2015
RMSE Hz	0.016
RMSE Z	0.020
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA077
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Troy

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4747975.899	243586.458	376.325

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-23-2015
RMSE Hz	0.011
RMSE Z	0.015
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA078
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Freedom

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4851157.999	334626.894	126.875

Operator	Daniel Cassell
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-23-2015
RMSE Hz	0.016
RMSE Z	0.017
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA079
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	West Newfield

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4834022.646	340339.881	182.302

Operator	Daniel Cassell
Receiver Model	Trimble R7
Receiver S/N	2502
Antenna Height	2.0

Date (MM-DD-YYYY)	11-23-2015
RMSE Hz	0.013
RMSE Z	0.014
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA080
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Hillsborough
Quad	Peterborough North

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4755181.942	260141.004	231.039

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-24-2015
RMSE Hz	0.018
RMSE Z	0.017
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA081
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Sullivan
Quad	Washington

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4782804.482	250015.550	446.859

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-24-2015
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA082
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Sullivan
Quad	Newport

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4796450.970	244056.689	310.301

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-24-2015
RMSE Hz	0.013
RMSE Z	0.020
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA083
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Plymouth

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4850349.291	283966.144	171.723

Operator	Dan Cassell
Receiver Model	Trimble R-7
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-25-2015
RMSE Hz	0.013
RMSE Z	0.016
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA084
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Penacook

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4794406.171	288987.095	102.575

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-25-2015
RMSE Hz	0.025
RMSE Z	0.032
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA085
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Penacook

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4795231.483	289047.175	102.235

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-25-2015
RMSE Hz	0.028
RMSE Z	0.042
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA086
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Ashland

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4841883.633	286997.202	160.743

Operator	Dan Cassell
Receiver Model	Trimble R-7
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-25-2015
RMSE Hz	0.010
RMSE Z	0.013
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA087
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Warner

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4794768.344	273968.258	131.821

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-25-2015
RMSE Hz	0.022
RMSE Z	0.020
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA088
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Warner

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4797275.279	270927.387	181.198

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-25-2015
RMSE Hz	0.015
RMSE Z	0.023
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA089
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Dixville Notch

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4970579.814	317067.583	570.325

Operator	Andrew Byron
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-7-2015
RMSE Hz	0.016
RMSE Z	0.021
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA090
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Tinkerville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4970933.092	299320.069	321.946

Operator	Andrew Byron
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-7-2015
RMSE Hz	0.017
RMSE Z	0.021
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA091
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Lancaster

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4924280.287	298954.213	317.717

Operator	Andrew Byron
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-7-2015
RMSE Hz	0.012
RMSE Z	0.015
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA092
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Milan

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4931185.277	322005.778	378.133

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-07-2015
RMSE Hz	0.012
RMSE Z	0.019
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA093
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Rumney

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4852803.807	274315.697	158.278

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-15-2015
RMSE Hz	0.025
RMSE Z	0.028
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA094
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Gafron
Quad	Warren

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4867558.750	267780.387	232.788

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-17-2015
RMSE Hz	0.013
RMSE Z	0.020
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA095
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Sullivan
Quad	Grantham

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4807387.027	244365.129	258.931

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-13-2015
RMSE Hz	0.016
RMSE Z	0.018
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA096
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	New London

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4811123.215	258370.578	394.138

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-14-2015
RMSE Hz	0.016
RMSE Z	0.022
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA097
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Spofford

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4755550.642	217514.480	231.415

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-12-2015
RMSE Hz	0.011
RMSE Z	0.015
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA098
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Bradford

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4794923.201	260085.191	208.625

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-14-2015
RMSE Hz	0.015
RMSE Z	0.017
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA099
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Lancaster

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4928974.255	295734.269	275.715

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-17-2015
RMSE Hz	0.019
RMSE Z	0.021
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA100
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Silver Lake

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4860785.050	321597.723	161.533

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-16-2015
RMSE Hz	0.015
RMSE Z	0.017
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA101
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Stratford

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4949600.904	296190.195	287.306

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-16-2015
RMSE Hz	0.018
RMSE Z	0.021
GPS Method	STATIC/RTK

PHOTOS:





Point ID	UA102
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Warren

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4863526.842	262653.459	276.943

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-17-2015
RMSE Hz	0.015
RMSE Z	0.023
GPS Method	STATIC/RTK

PHOTOS:





Tall Weeds Point Log Sheets



Point ID	TW001
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Moose Bog

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
5018033.057	336459.613	707.248

Operator	Mike D'Agostino
Receiver Model	Trimble R10, R7
Receiver S/N	9602, 4751
Antenna Height	2.0

Date (MM-DD-YYYY)	10-31-2015
RMSE Hz	0.01
RMSE Z	0.012
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW002
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Moose Bog

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
5016068.511	335901.593	652.338

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	10-31-2015
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW003
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Moose Bog

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
5015346.893	335620.190	642.368

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	10-31-2015
RMSE Hz	0.012
RMSE Z	0.014
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW004
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Rump Mountain

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
5011710.175	334986.343	728.180

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	10-31-2015
RMSE Hz	0.015
RMSE Z	0.018
GPS Method	STATIC/RTK

PHOTOS:

No photos available.



Point ID	TW005
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Second Connecticut Lake

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
5003847.380	330191.844	588.102

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	10-31-2015
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW006
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Essex
Quad	Pittsburg OE E

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4986956.596	302776.216	327.413

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-01-2015
RMSE Hz	0.014
RMSE Z	0.023
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW007
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Essex
Quad	Monadnock Mountain

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4985548.491	300120.530	312.658

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-01-2015
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW008
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Pittsburg

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4993330.156	303891.192	338.768

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-01-2015
RMSE Hz	0.007
RMSE Z	0.009
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW011
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Cowen Hill

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
5003570.987	317326.977	558.826

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-03-2015
RMSE Hz	0.018
RMSE Z	0.031
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW012
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Magalloway Mountain

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4992703.051	326505.431	666.734

Operator	Andrew Byron
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-04-2015
RMSE Hz	0.039
RMSE Z	0.053
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW014
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Lake Francis

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4986940.030	320411.477	536.985

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-05-2015
RMSE Hz	0.006
RMSE Z	0.011
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW015
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Maidstone Lake

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4958502.395	292076.419	290.332

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-06-2015
RMSE Hz	0.012
RMSE Z	0.013
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW016
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Crawford Notch

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4899512.546	307364.466	574.706

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-8-2015
RMSE Hz	0.015
RMSE Z	0.025
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW017
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Lower Waterford

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4905411.103	267875.828	202.832

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-09-2015
RMSE Hz	0.020
RMSE Z	0.021
GPS Method	STATIC/RTK

PHOTOS:

No photos available.



Point ID	TW018
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Caledonia

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4895158.137	259255.436	194.065

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-09-2015
RMSE Hz	0.019
RMSE Z	0.036
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW019
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Sanbornville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4822997.866	336203.539	166.968

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-09-2015
RMSE Hz	0.006
RMSE Z	0.011
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW020
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Center Sandwich

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4852804.018	304078.058	184.062

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-10-2015
RMSE Hz	0.019
RMSE Z	0.032
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW021
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Center Harbor

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4837593.483	298439.552	154.415

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-10-2015
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW022
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	East Haverhill

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4878549.423	262741.226	239.932

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0 Meters

Date (MM-DD-YYYY)	11-10-2015
RMSE Hz	0.024
RMSE Z	0.037
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW023
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Bristol

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4832556.871	287143.058	166.045

Operator	Mike D'Agostino
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-11-2015
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW024
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Enfield

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4849085.184	240647.361	174.071

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-13-2015
RMSE Hz	0.040
RMSE Z	0.056
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW026
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Lyme

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4851131.386	243626.153	211.239

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-13-2015
RMSE Hz	0.033
RMSE Z	0.048
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW027
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Lyme

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4856496.527	246790.587	164.464

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-13-2015
RMSE Hz	0.015
RMSE Z	0.026
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW028
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Piermont

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4869026.764	254689.141	350.937

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-13-2015
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW029
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Sullivan
Quad	Claremont North

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4809779.473	229627.802	197.083

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-14-2015
RMSE Hz	0.016
RMSE Z	0.028
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW030
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Sullivan
Quad	Claremont South

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4798425.970	235472.619	441.489

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-14-2015
RMSE Hz	0.013
RMSE Z	0.019
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW031
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	New London

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4810679.408	261060.512	296.433

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-15-2015
RMSE Hz	0.021
RMSE Z	0.033
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW032
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Enfield

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4837917.296	243821.572	235.534

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.000

Date (MM-DD-YYYY)	11-16-2015
RMSE Hz	0.01
RMSE Z	0.011
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW033
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Northfield

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4811083.427	296328.449	223.827

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.000

Date (MM-DD-YYYY)	11-16-2015
RMSE Hz	0.015
RMSE Z	0.016
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW034
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Northfield

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4815885.173	294002.486	162.088

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-17-2015
RMSE Hz	0.019
RMSE Z	0.025
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW035
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Gilmanton Ironworks

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4808962.619	317383.686	264.839

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.000

Date (MM-DD-YYYY)	11-18-2015
RMSE Hz	0.013
RMSE Z	0.017
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW036
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Winnisquam Lake

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4823738.338	293670.204	264.882

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.000

Date (MM-DD-YYYY)	11-18-2015
RMSE Hz	0.012
RMSE Z	0.02
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW037
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Stafford
Quad	Baxter Lake

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4803734.272	336926.263	98.825

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-19-2015
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW038
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Hillsborough
Quad	Hillsboro

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4778393.107	265164.038	172.643

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-20-2015
RMSE Hz	0.014
RMSE Z	0.025
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW039
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Keene

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4757531.879	231508.408	142.648

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-21-2015
RMSE Hz	0.032
RMSE Z	0.032
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW040
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Center Sandwich

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4856916.168	307247.859	210.886

Operator	Daniel Cassell
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-22-2015
RMSE Hz	0.037
RMSE Z	0.043
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW041
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Freedom

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4850742.752	336280.000	121.157

Operator	Daniel Cassell
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-23-2015
RMSE Hz	0.019
RMSE Z	0.019
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW042
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Hillsborough
Quad	Peterborough North

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4755894.343	260089.460	210.913

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-24-2015
RMSE Hz	0.032
RMSE Z	0.032
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW043
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Tuftonboro

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4842737.075	325132.327	204.821

Operator	Daniel Cassell
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-24-2015
RMSE Hz	0.016
RMSE Z	0.022
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW044
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Dixville Notch

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4970571.097	317042.277	567.245

Operator	Andrew Byron
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-7-2015
RMSE Hz	0.018
RMSE Z	0.023
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW045
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Groveton

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4935628.578	295920.370	271.805

Operator	Andrew Byron
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-7-2015
RMSE Hz	0.012
RMSE Z	0.019
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW046
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	West Milan

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4940521.286	317392.303	298.820

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-07-2015
RMSE Hz	0.021
RMSE Z	0.027
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW047
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	West Milan

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4932816.085	320712.185	370.473

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-07-2015
RMSE Hz	0.010
RMSE Z	0.019
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW048
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Dummer Ponds

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4950339.002	316660.872	440.170

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-07-2015
RMSE Hz	0.012
RMSE Z	0.010
GPS Method	STATIC/RTK

PHOTOS:





Point ID	TW049
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Dixville Notch

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4958719.155	316365.554	600.561

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-07-2015
RMSE Hz	0.016
RMSE Z	0.026
GPS Method	STATIC/RTK

PHOTOS:





Forest Point Log Sheets



Point ID	FO001
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Moose Bog

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
5018000.046	336400.707	717.325

Operator	Mike D'Agostino
Receiver Model	Trimble R10, R7
Receiver S/N	9602, 4751
Antenna Height	2.0

Date (MM-DD-YYYY)	10-31-2015
RMSE Hz	0.009
RMSE Z	0.01
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO003
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Moose Bog

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
5016135.140	335962.938	651.999

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	10-31-2015
RMSE Hz	0.026
RMSE Z	0.027
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO004
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Moose Bog

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
5014571.053	335425.722	644.412

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	10-31-2015
RMSE Hz	0.032
RMSE Z	0.038
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO005
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Rump Mountain

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
5007264.587	334465.848	650.440

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	10-31-2015
RMSE Hz	0.013
RMSE Z	0.021
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO006
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Second Connecticut Lake

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
5003861.897	330253.865	590.297

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	10-31-2015
RMSE Hz	0.034
RMSE Z	0.032
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO007
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Cowen Hill

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
5008539.453	318545.590	537.070

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-03-2015
RMSE Hz	0.018
RMSE Z	0.021
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO008
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Second Connecticut Lake

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
5006384.040	324371.331	782.020

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-05-2015
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO009
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Blue Mountain

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4966789.878	307310.437	452.720

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-05-2015
RMSE Hz	0.017
RMSE Z	0.038
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO010
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Center Sandwich

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4852856.769	304073.177	185.088

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-10-2015
RMSE Hz	0.031
RMSE Z	0.049
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO011
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Bethlehem

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4903597.281	284372.940	472.230

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-10-2015
RMSE Hz	0.054
RMSE Z	0.065
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO12
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Franconia

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4899761.552	281867.403	301.734

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-10-2015
RMSE Hz	0.028
RMSE Z	0.44
GPS Method	STATIC/RTK

PHOTOS:

No picture available.



aPoint ID	FO013
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Sugar Hill

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4890079.253	277923.330	450.151

Operator	Andrew Byron
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-10-2015
RMSE Hz	0.028
RMSE Z	0.033
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO015
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Enfield

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4848935.708	240116.599	137.758

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-13-2015
RMSE Hz	0.027
RMSE Z	0.037
GPS Method	STATIC/RTK

PH





Point ID	FO016
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Lyme

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4851423.963	243640.019	215.649

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-13-2015
RMSE Hz	0.040
RMSE Z	0.055
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO017
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Piermont

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4869048.043	254698.405	354.961

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-13-2015
RMSE Hz	0.034
RMSE Z	0.039
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO018
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Sullivan
Quad	Claremont North

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4815781.262	231793.880	281.779

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-14-2015
RMSE Hz	0.04
RMSE Z	0.077
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO019
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Sullivan
Quad	Bellows Falls

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4793986.036	222098.257	118.767

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-14-2015
RMSE Hz	0.033
RMSE Z	0.042
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO020
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Enfield

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4837912.941	243813.744	235.002

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.000

Date (MM-DD-YYYY)	11-16-2015
RMSE Hz	0.02
RMSE Z	0.023
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO021
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Sullivan
Quad	North Grantham

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4821199.537	246874.144	312.904

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-17-2015
RMSE Hz	0.053
RMSE Z	0.066
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO022
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Andover

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4812438.565	267596.230	195.726

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-17-2015
RMSE Hz	0.018
RMSE Z	0.023
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO023
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Andover

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4813465.415	274908.440	190.997

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-17-2015
RMSE Hz	0.055
RMSE Z	0.049
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO024
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Franklin

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4811849.579	279264.598	269.054

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-17-2015
RMSE Hz	0.036
RMSE Z	0.060
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO025
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Northfield

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4815922.815	294020.964	159.737

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-17-2015
RMSE Hz	0.031
RMSE Z	0.042
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO026
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Alton

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4813420.814	319056.496	200.427

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.000

Date (MM-DD-YYYY)	11-18-2015
RMSE Hz	0.023
RMSE Z	0.019
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO027
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Gilmanton Ironworks

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4808977.399	317364.170	265.949

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.000

Date (MM-DD-YYYY)	11-18-2015
RMSE Hz	0.021
RMSE Z	0.026
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO028
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	West Alton

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4824609.072	313132.626	206.778

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.000

Date (MM-DD-YYYY)	11-18-2015
RMSE Hz	0.033
RMSE Z	0.032
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO029
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Laconia

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4827988.399	306642.201	154.772

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.000

Date (MM-DD-YYYY)	11-18-2015
RMSE Hz	0.021
RMSE Z	0.019
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO030
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Laconia

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4821705.301	302588.324	230.700

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.000

Date (MM-DD-YYYY)	11-18-2015
RMSE Hz	0.017
RMSE Z	0.017
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO031
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Winnisquam Lake

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4823734.694	293636.429	264.339

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.000

Date (MM-DD-YYYY)	11-18-2015
RMSE Hz	0.019
RMSE Z	0.033
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO032
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Strafford
Quad	Baxter Lake

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4804174.620	328107.353	203.075

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.000

Date (MM-DD-YYYY)	11-18-2015
RMSE Hz	0.046
RMSE Z	0.067
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO033
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Strafford
Quad	Baxter Lake

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4803468.974	336687.016	87.021

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-19-2015
RMSE Hz	0.013
RMSE Z	0.018
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO034
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Strafford
Quad	Farmington

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4815300.552	333191.387	223.338

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-19-2015
RMSE Hz	0.030
RMSE Z	0.026
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO035
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Strafford
Quad	Sanbornville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4818922.355	329066.934	257.090

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-19-2015
RMSE Hz	0.013
RMSE Z	0.022
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO037
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Strafford
Quad	Farmington

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4811999.887	336931.747	295.203

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-19-2015
RMSE Hz	0.040
RMSE Z	0.070
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO038
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Hillsborough
Quad	Hillsboro

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4777546.406	259652.201	248.237

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-20-2015
RMSE Hz	0.03
RMSE Z	0.048
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO039
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Center Sandwich

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4856983.981	307318.201	209.031

Operator	Daniel Cassell
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-22-2015
RMSE Hz	0.028
RMSE Z	0.039
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO040
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Strafford
Quad	Baxter Lake

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4798955.930	332051.162	207.763

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-20-2015
RMSE Hz	0.031
RMSE Z	0.026
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO041
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Strafford
Quad	Park Mountain

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4793565.535	326937.473	174.805

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-20-2015
RMSE Hz	0.01
RMSE Z	0.02
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO042
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Ashburnham

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4735384.168	257642.473	365.988

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-22-2015
RMSE Hz	0.034
RMSE Z	0.054
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO043
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Hinsdale

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4740774.430	222903.374	132.705

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-22-2015
RMSE Hz	0.029
RMSE Z	0.033
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO044
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Monadnock Mountain

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4748715.927	248974.289	368.848

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-23-2015
RMSE Hz	0.028
RMSE Z	0.032
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO045
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Hillsborough
Quad	Peterborough North

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4755867.713	260006.050	211.185

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-24-2015
RMSE Hz	0.027
RMSE Z	0.029
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO046
Project No.	26818
Project Name	BAA CT River QL2 LIDAR
State	NH
County	Sullivan
Quad	Newport

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4796545.709	245904.289	390.593

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-24-2015
RMSE Hz	0.037
RMSE Z	0.058
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO047
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Tuffonboro

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4842756.836	325125.933	202.809

Operator	Daniel Cassell
Receiver Model	Trimble R8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	11-24-2015
RMSE Hz	0.030
RMSE Z	0.037
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO048
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Hopkinton

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4791441.582	281388.283	115.328

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-25-2015
RMSE Hz	0.019
RMSE Z	0.026
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO049
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Rumney

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4853092.936	273381.018	160.373

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	R8-7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-15-2015
RMSE Hz	0.048
RMSE Z	0.048
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO050
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Warren

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4867744.004	267835.475	233.632

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-17-2015
RMSE Hz	0.024
RMSE Z	0.034
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO051
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Sullivan
Quad	Newport

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4805825.118	242595.454	239.002

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-13-2015
RMSE Hz	0.021
RMSE Z	0.025
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO052
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Sullivan
Quad	Sunapee Lake North

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4820184.549	254733.744	442.436

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-14-2015
RMSE Hz	0.039
RMSE Z	0.048
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO053
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Brattleboro

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4743647.455	213310.045	68.415

Operator	Marc Nabelek
Receiver Model	Trimble R-7
Receiver S/N	R8-7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-13-2015
RMSE Hz	0.032
RMSE Z	0.040
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO054
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Bradford

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4795693.382	258889.434	224.499

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-14-2015
RMSE Hz	0.019
RMSE Z	0.021
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO055
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Tamworth

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4857705.348	318040.992	145.374

Operator	Marc Nabelek
Receiver Model	Trimble R-7
Receiver S/N	R8-7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-16-2015
RMSE Hz	0.017
RMSE Z	0.017
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO056
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Bristol

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4832643.834	286972.805	177.997

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-11-2015
RMSE Hz	0.013
RMSE Z	0.017
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO057
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Keene

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4757549.576	231073.603	142.577

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-12-2015
RMSE Hz	0.006
RMSE Z	0.010
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO059
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Sullivan
Quad	East Lempster

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4790538.570	237354.419	335.965

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-13-2015
RMSE Hz	0.022
RMSE Z	0.030
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO060
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Canaan

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4837063.437	256197.241	303.063

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-14-2015
RMSE Hz	0.031
RMSE Z	0.041
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO061
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Strafford
Quad	Farmington

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4807457.846	337687.373	125.115

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-15-2015
RMSE Hz	0.011
RMSE Z	0.013
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO062
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Twin Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4905399.000	297252.680	430.091

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-16-2015
RMSE Hz	0.025
RMSE Z	0.027
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO063
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Monadnock Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4973557.623	302262.909	309.415

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-16-2015
RMSE Hz	0.023
RMSE Z	0.025
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO064
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Mount Washington

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4914422.039	312113.448	466.113

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-17-2015
RMSE Hz	0.025
RMSE Z	0.034
GPS Method	STATIC/RTK

PHOTOS:





Point ID	FO065
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Lancaster

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4926815.404	297770.732	323.196

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-17-2015
RMSE Hz	0.017
RMSE Z	0.020
GPS Method	STATIC/RTK

PHOTOS:





Wetland Point Log Sheets



Point ID	SW001
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Moose Bog

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
5018222.146	336549.49	702.532

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	10-31-2015
RMSE Hz	0.019
RMSE Z	0.023
GPS Method	STATIC/RTK

PHOTOS:





Point ID	SW002
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Moose Bog

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
5014976.855	335660.978	637.383

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	10-31-2015
RMSE Hz	0.015
RMSE Z	0.017
GPS Method	STATIC/RTK

PHOTOS:





Point ID	SW003
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Mount Crescent

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4919448.575	313200.746	669.088

Operator	Mike D'Agostino
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-8-2015
RMSE Hz	0.027
RMSE Z	0.029
GPS Method	STATIC/RTK

PHOTOS:





Point ID	SW004
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Wolfeboro

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4826926.303	323494.421	208.054

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-09-2015
RMSE Hz	0.024
RMSE Z	0.030
GPS Method	STATIC/RTK

PHOTOS:





Point ID	SW005
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Wolfeboro

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4830751.913	327366.414	162.404

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-09-2015
RMSE Hz	0.017
RMSE Z	0.031
GPS Method	STATIC/RTK

PHOTOS:





Point ID	SW006
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Center Sandwich

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4853024.945	301324.752	228.435

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-10-2015
RMSE Hz	0.036
RMSE Z	0.030
GPS Method	STATIC/RTK

PHOTOS:





Point ID	SW007
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Holderness

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4835093.103	297609.385	193.300

Operator	Mike D'Agostino
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-10-2015
RMSE Hz	0.025
RMSE Z	0.030
GPS Method	STATIC/RTK

PHOTOS:





Point ID	SW008
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Lyme

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4857944.574	247132.467	131.255

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-13-2015
RMSE Hz	0.020
RMSE Z	0.033
GPS Method	STATIC/RTK

PHOTOS:





Point ID	SW009
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Piermont

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4868789.214	254798.073	339.097

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-13-2015
RMSE Hz	0.009
RMSE Z	0.008
GPS Method	STATIC/RTK

PHOTOS:





Point ID	SW010
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Sullivan
Quad	Claremont North

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4821064.602	234703.772	255.280

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-14-2015
RMSE Hz	0.019
RMSE Z	0.023
GPS Method	STATIC/RTK

PHOTOS:





Point ID	SW011
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Canaan

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4836997.161	248815.395	243.733

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.000

Date (MM-DD-YYYY)	11-16-2015
RMSE Hz	0.018
RMSE Z	0.019
GPS Method	STATIC/RTK

PHOTOS:





Point ID	SW012
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Danbury

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4823395.133	268568.022	244.282

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.000

Date (MM-DD-YYYY)	11-16-2015
RMSE Hz	0.018
RMSE Z	0.022
GPS Method	STATIC/RTK

PHOTOS:





Point ID	SW013
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Andover

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4813664.061	275909.273	192.363

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-17-2015
RMSE Hz	0.013
RMSE Z	0.011
GPS Method	STATIC/RTK

PHOTOS:





Point ID	SW014
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Laconia

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4820837.936	301469.515	177.545

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.000

Date (MM-DD-YYYY)	11-18-2015
RMSE Hz	0.014
RMSE Z	0.016
GPS Method	STATIC/RTK

PHOTOS:





Point ID	SW015
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Strafford
Quad	Baxter Lake

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4804240.722	336391.853	90.771

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-19-2015
RMSE Hz	0.010
RMSE Z	0.013
GPS Method	STATIC/RTK

PHOTOS:





Point ID	SW016
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Strafford
Quad	Farmington

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4814070.219	333417.262	191.185

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-19-2015
RMSE Hz	0.016
RMSE Z	0.013
GPS Method	STATIC/RTK

PHOTOS:





Point ID	SW017
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Strafford
Quad	Parker Mountain

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4794161.245	325902.018	172.520

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-20-2015
RMSE Hz	0.014
RMSE Z	0.016
GPS Method	STATIC/RTK

PHOTOS:





Point ID	SW018
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Troy

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4739111.038	238958.639	349.332

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-22-2015
RMSE Hz	0.019
RMSE Z	0.025
GPS Method	STATIC/RTK

PHOTOS:





Point ID	SW019
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Hillsborough
Quad	Peterborough North

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4756053.226	260034.319	208.236

Operator	Marc Nabelek
Receiver Model	Trimble R-10
Receiver S/N	9602
Antenna Height	2.0

Date (MM-DD-YYYY)	11-24-2015
RMSE Hz	0.017
RMSE Z	0.016
GPS Method	STATIC/RTK

PHOTOS:





Horizontal Point Log Sheets



Point ID	PP001
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Sanbornville

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4824283.055	336252.176	171.520

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	R8-7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-15-2015
RMSE Hz	0.021
RMSE Z	0.024
GPS Method	STATIC/RTK

• PHOTOS:





Point ID	PP002
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	West Swanzey

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4738760.069	232254.924	323.880

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-10-2015
RMSE HzC	0.021
RMSE Z	0.023
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP003
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Troy

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4741272.736	243137.306	345.915

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-10-2015
RMSE Hz	0.013
RMSE Z	0.015
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP004
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Winchendon

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4737357.155	253698.074	391.438

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-10-2015
RMSE Hz	0.020
RMSE Z	0.022
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP005
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Monadnock Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4744539.815	252860.115	308.696

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-10-2015
RMSE Hz	0.013
RMSE Z	0.020
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP006
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Hillsborough
Quad	Peterborough South

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4750480.413	259042.072	221.242

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-10-2015
RMSE Hz	0.014
RMSE Z	0.020
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP007
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	West Swanzey

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4747803.349	232512.476	148.549

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-10-2015
RMSE Hz	0.010
RMSE Z	0.011
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP008
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Hinsdale

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4742995.329	214994.685	66.252

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-12-2015
RMSE Hz	0.024
RMSE Z	0.028
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP009
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Winham
Quad	Brattleboro

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4750439.463	209415.397	72.250

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-12-2015
RMSE Hz	0.010
RMSE Z	0.011
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP010
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Lovering Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4974070.801	302704.654	314.706

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-16-2015
RMSE Hz	0.016
RMSE Z	0.021
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP011
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Lancaster

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4929595.048	295676.287	263.546

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-17-2015
RMSE Hz	0.020
RMSE Z	0.023
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP012
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Mount Dartmouth

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4902995.882	304423.049	485.829

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-16-2015
RMSE Hz	0.019
RMSE Z	0.022
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP013
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Lisbon

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4899794.868	267742.421	175.317

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-17-2015
RMSE Hz	0.016
RMSE Z	0.022
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP014
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Twin Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4916604.520	292067.694	291.297

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-17-2015
RMSE Hz	0.015
RMSE Z	0.017
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP015
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Littleton

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4909858.485	279519.003	258.204

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-17-2015
RMSE Hz	0.013
RMSE Z	0.020
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP016
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Caledonia

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4892026.539	258014.415	157.950

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-17-2015
RMSE Hz	0.013
RMSE Z	0.014
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP017
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Newbury

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4880268.002	254533.091	193.656

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-17-2015
RMSE Hz	0.014
RMSE Z	0.015
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP018
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Piermont

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4872944.420	252903.598	178.863

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-17-2015
RMSE Hz	0.008
RMSE Z	0.009
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP019
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Warren

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4867545.590	267769.691	232.711

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-17-2015
RMSE Hz	0.014
RMSE Z	0.022
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP020
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Wentworth

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4861810.826	265944.505	200.847

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	R8-7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-17-2015
RMSE Hz	0.017
RMSE Z	0.023
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP021
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Plymouth

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4848347.936	283561.701	168.175

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-11-2015
RMSE Hz	0.023
RMSE Z	0.026
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP022
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Bristol

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4832631.413	287039.536	167.078

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-11-2015
RMSE Hz	0.011
RMSE Z	0.014
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP023
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Newfound Lake

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4841753.923	273840.844	190.420

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-11-2015
RMSE Hz	0.014
RMSE Z	0.020
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP024
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Canaan

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4837054.807	256931.619	288.962

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-14-2015
RMSE Hz	0.014
RMSE Z	0.019
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP025
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Enfield

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4836911.438	246341.867	239.482

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-14-2015
RMSE Hz	0.011
RMSE Z	0.017
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP026
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Hanover

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4844574.621	236118.258	140.673

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-14-2015
RMSE Hz	0.012
RMSE Z	0.014
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP027
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Lyme

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4855699.914	245945.321	164.116

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-14-2015
RMSE Hz	0.015
RMSE Z	0.015
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP028
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Andover

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4813191.262	271534.235	197.324

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-11-2015
RMSE Hz	0.017
RMSE Z	0.018
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP029
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Franklin

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4813523.133	285850.878	99.337

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-11-2015
RMSE Hz	0.017
RMSE Z	0.018
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP030
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Northfield

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4812239.991	290227.347	134.547

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-11-2015
RMSE Hz	0.016
RMSE Z	0.017
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP031
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Belmont

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4813205.950	299337.883	161.144

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-11-2015
RMSE Hz	0.017
RMSE Z	0.018
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP032
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Laconia

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4821334.019	300711.975	154.088

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-11-2015
RMSE Hz	0.010
RMSE Z	0.019
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP033
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Center Harbor

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4835792.652	298385.550	194.252

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-11-2015
RMSE Hz	0.007
RMSE Z	0.010
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP034
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Wolfeboro

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4827330.873	323644.714	208.447

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-15-2015
RMSE Hz	0.016
RMSE Z	0.020
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP035
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Belknap
Quad	Alton

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4813509.435	320115.358	170.166

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-15-2015
RMSE Hz	0.013
RMSE Z	0.019
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP036
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Carroll
Quad	Center Sandwich

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4847535.831	307092.167	188.416

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-15-2015
RMSE Hz	0.011
RMSE Z	0.012
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP037
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Sullivan
Quad	Grantham

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4820938.016	246655.620	301.140

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-14-2015
RMSE Hz	0.020
RMSE Z	0.021
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP038
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Sullivan
Quad	Claremont South

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4807531.659	230435.737	162.641

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-13-2015
RMSE Hz	0.012
RMSE Z	0.014
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP039
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Sullivan
Quad	Grantham

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
UTM – Zone	19N
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4807378.851	244350.416	259.476

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-13-2015
RMSE Hz	0.016
RMSE Z	0.018
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP040
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Bradford

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4794185.408	260635.637	197.470

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-14-2015
RMSE Hz	0.023
RMSE Z	0.031
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP041
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Hopkinton

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4789237.025	279498.503	111.134

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-12-2015
RMSE Hz	0.016
RMSE Z	0.023
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP042
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Henniker

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4784640.909	270592.568	134.105

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-12-2015
RMSE Hz	0.015
RMSE Z	0.020
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP043
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Hillsborough
Quad	Hillsboro

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4777702.461	264256.575	194.722

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-12-2015
RMSE Hz	0.015
RMSE Z	0.018
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP044
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Marlow

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4778710.180	239943.590	354.397

Operator	Marc Nabelek
Receiver Model	Trimble R-7
Receiver S/N	R8-7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-12-2015
RMSE Hz	0.014
RMSE Z	0.017
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP045
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Alstead

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4782958.333	227275.196	157.503

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-13-2015
RMSE Hz	0.013
RMSE Z	0.018
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP046
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Walpole

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4775392.471	221113.954	119.318

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-13-2015
RMSE Hz	0.015
RMSE Z	0.020
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP047
Project No.	26818
Project Name	BAA CT River QL2 LIDAR
State	NH
County	Cheshire
Quad	Gilsum

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4771368.344	234518.003	274.613

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-12-2015
RMSE Hz	0.011
RMSE Z	0.013
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP048
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Dublin

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4759421.023	247162.258	408.533

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-10-2015
RMSE Hz	0.011
RMSE Z	0.014
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP049
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Spofford

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4762298.224	219205.955	127.345

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-12-2015
RMSE Hz	0.013
RMSE Z	0.018
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP050
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Keene

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4758861.065	232543.239	148.327

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-12-2015
RMSE Hz	0.030
RMSE Z	0.038
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP051
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Sullivan
Quad	East Lempster

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4790310.489	241578.927	373.132

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-13-2015
RMSE Hz	0.016
RMSE Z	0.022
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP052
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Cheshire
Quad	Stoddard

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4773303.029	251668.657	367.868

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-12-2015
RMSE Hz	0.023
RMSE Z	0.029
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP053
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Hillsborough
Quad	Hillsboro

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4765188.671	261691.698	206.134

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-10-2015
RMSE Hz	0.017
RMSE Z	0.019
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP054
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	New London

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM – Zone 19N	
NAVD88	
GEOID12A	
Meters	

Northing	Easting	Elevation
4811103.908	258358.504	394.130

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-14-2015
RMSE Hz	0.019
RMSE Z	0.022
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP055
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Merrimack
Quad	Danbury

Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4823159.890	268679.037	248.240

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-11-2015
RMSE Hz	0.015
RMSE Z	0.017
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP056
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Franconia

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4895162.559	284475.978	595.091

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-16-2015
RMSE Hz	0.013
RMSE Z	0.014
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP057
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Strafford
Quad	Northwood

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4789772.054	325461.379	156.146

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-15-2015
RMSE Hz	0.012
RMSE Z	0.017
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP058
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Strafford
Quad	Baxter Lake

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	NAD83(2011)
	UTM – Zone 19N
	NAVD88
	GEOID12A
	Meters

Northing	Easting	Elevation
4804030.082	334281.634	85.092

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-15-2015
RMSE Hz	0.008
RMSE Z	0.010
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP059
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Grafton
Quad	Rumney

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4852810.572	274324.906	158.334

Operator	Marc Nabelek
Receiver Model	Trimble R-8
Receiver S/N	7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-15-2015
RMSE Hz	0.018
RMSE Z	0.023
GPS Method	STATIC/RTK

PHOTOS:





Point ID	PP060
Project No.	26818
Project Name	BAA CT River QL2 LiDAR
State	NH
County	Coos
Quad	Bloomfield

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 19N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4958721.363	291858.653	276.710

Operator	Marc Nabelek
Receiver Model	Trimble R-7
Receiver S/N	R8-7337
Antenna Height	2.0

Date (MM-DD-YYYY)	12-16-2015
RMSE Hz	0.015
RMSE Z	0.017
GPS Method	STATIC/RTK

PHOTOS:

