

Project Report Appendices

The following section contains the appendices as listed in the Wisconsin 3 County QL2 2018 LiDAR Project Report.

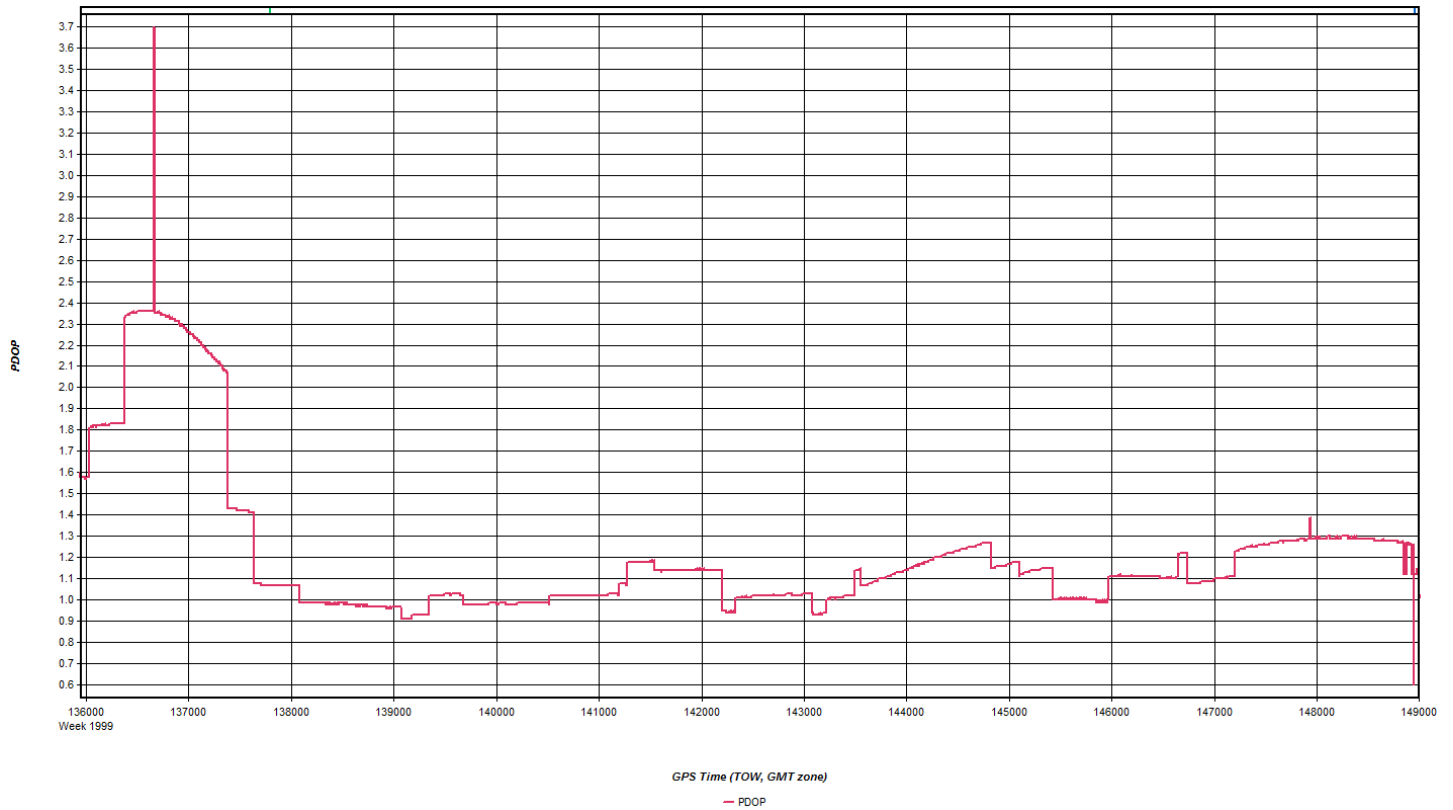
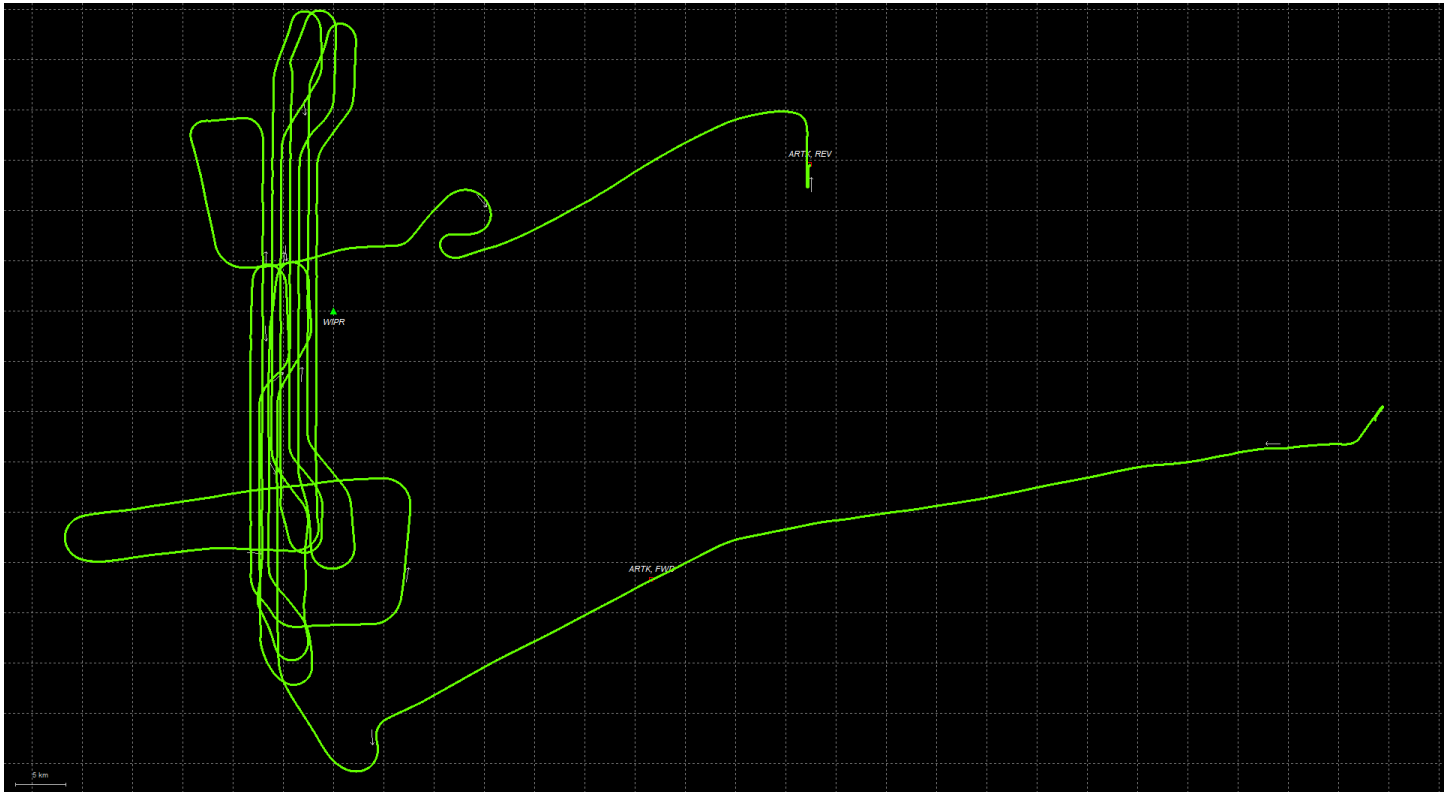
Appendix A

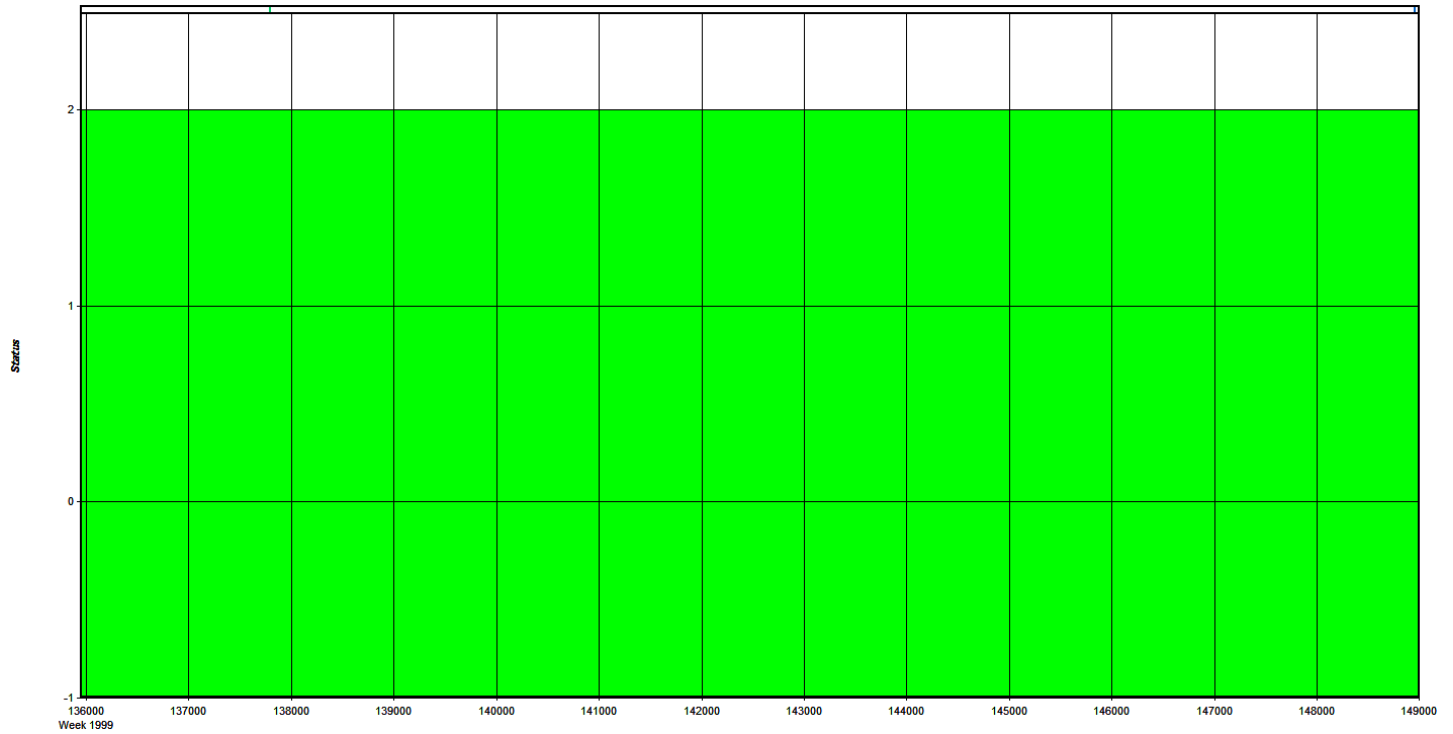
GPS/IMU Processing Statistics Flight Logs Base Station Logs

There were fifteen total lifts. Flight-related data are found on the following pages.

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April 30, 2018-B (SN7161, N262AS)	9
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May 13, 2018-A (SN7229, C-FQLC).....	33
May 14, 2018-A (SN7229, C-FQLC)	42
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May 15, 2018-B (SN7229, C-FQLC).....	66
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May 16, 2018-A2 (SN8227, N22GE)	92
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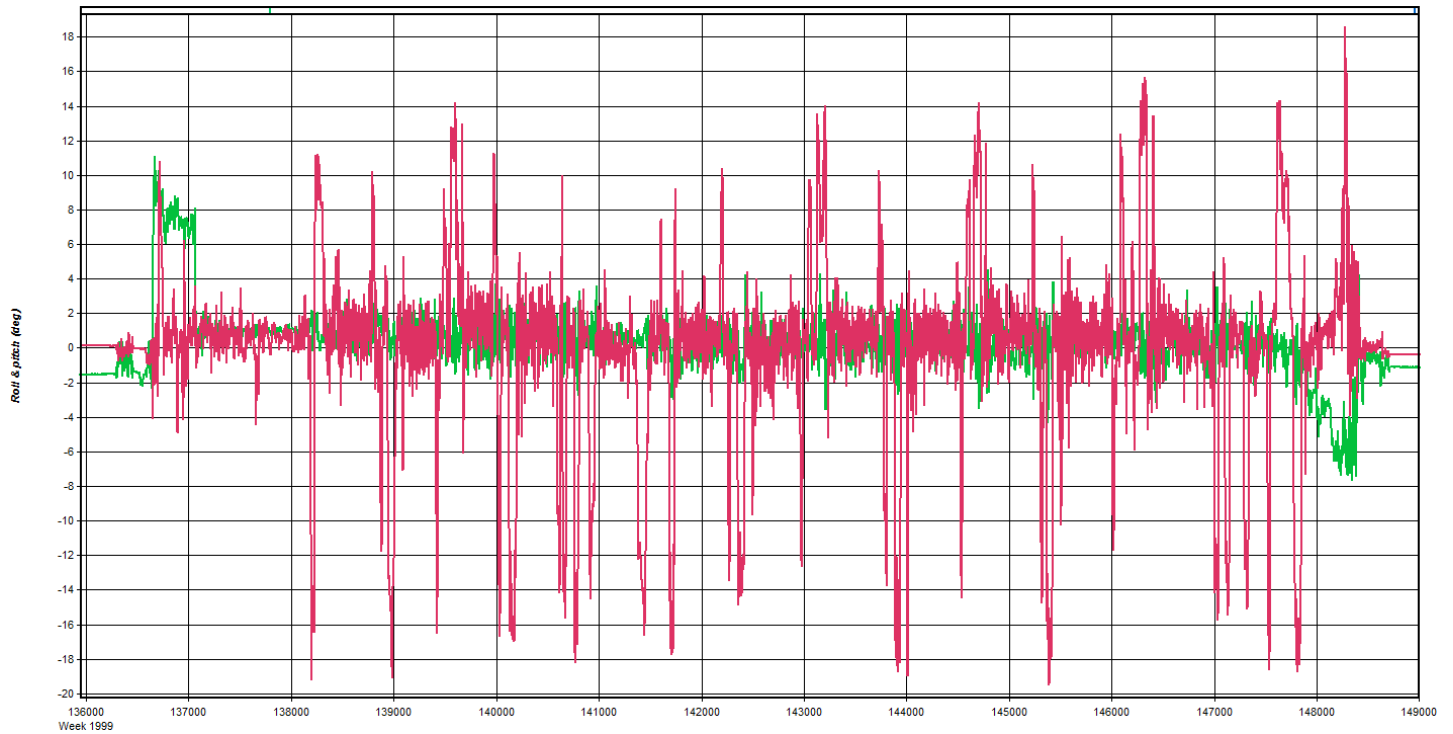
April 30, 2018-A (SN7161, N262AS)





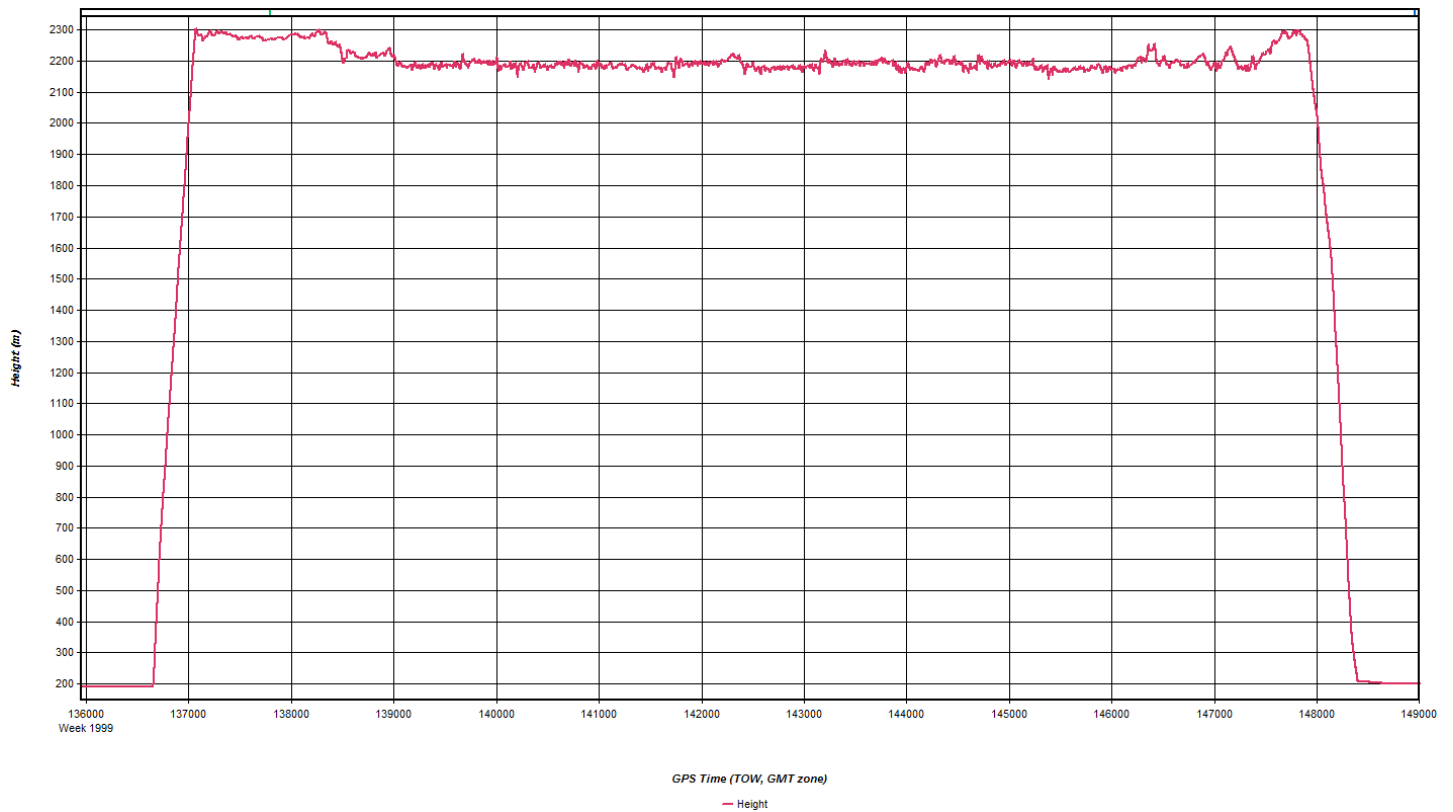
GPS Time (TOW, GMT zone)

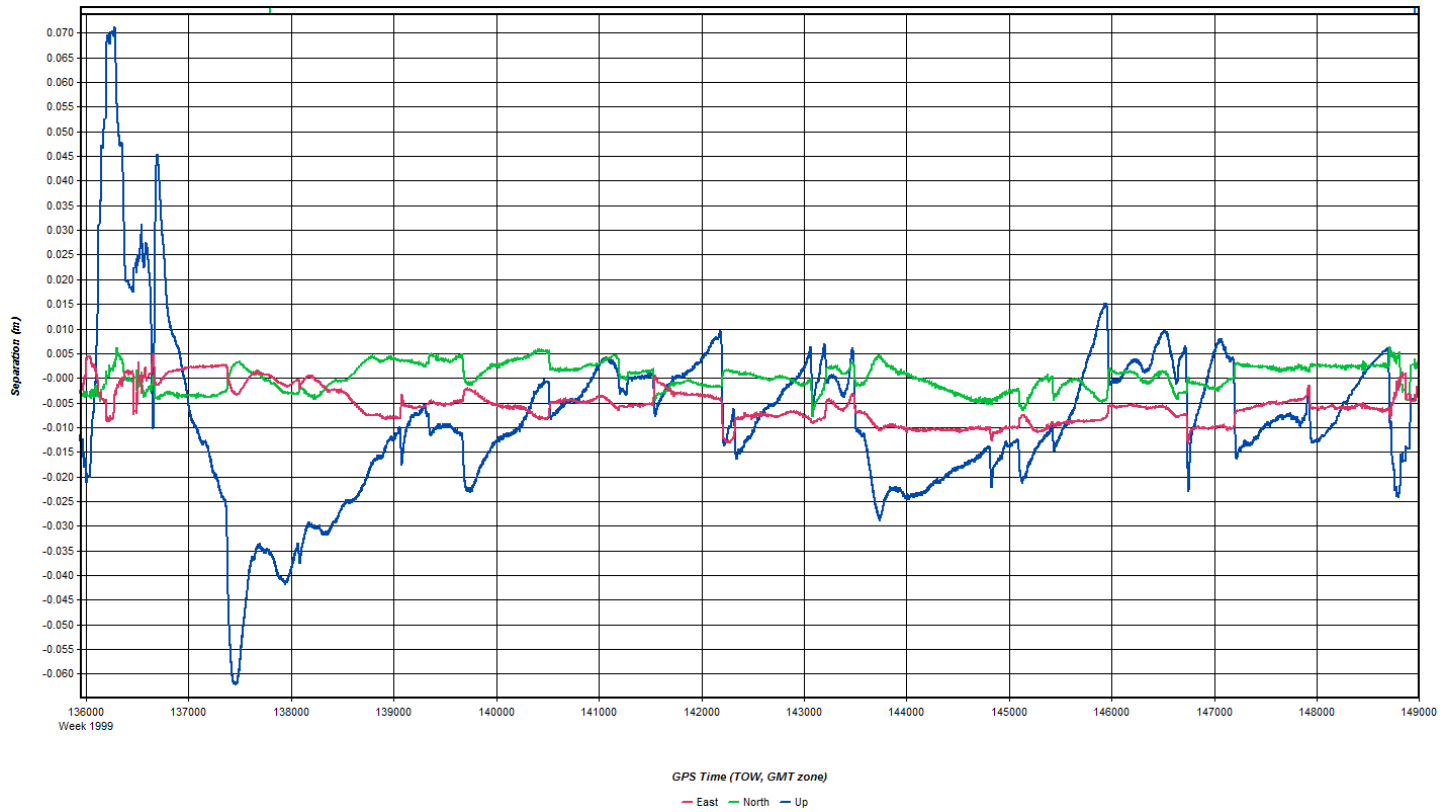
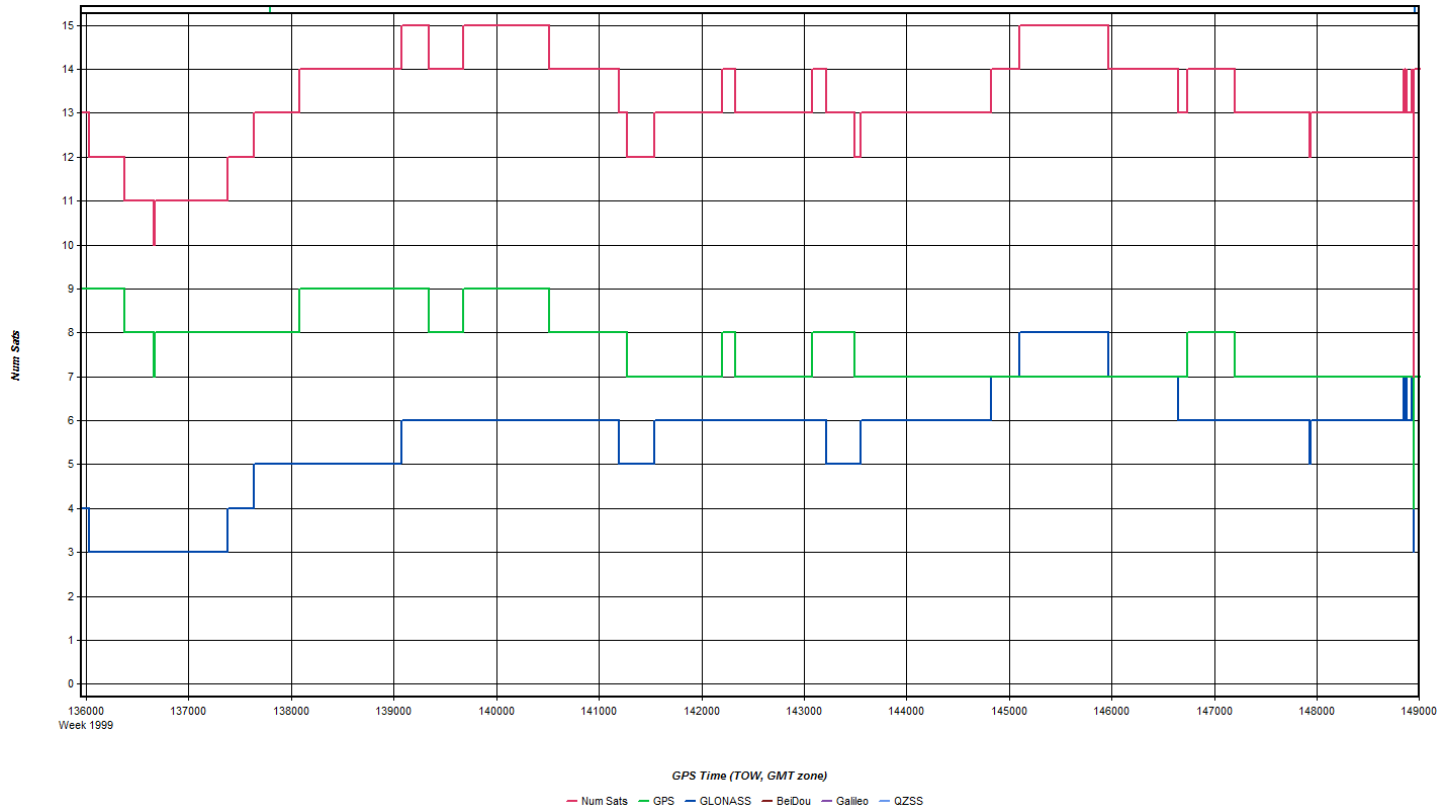
— Float — Forward Fixed — Reverse Fixed — Fixed (2 or more)

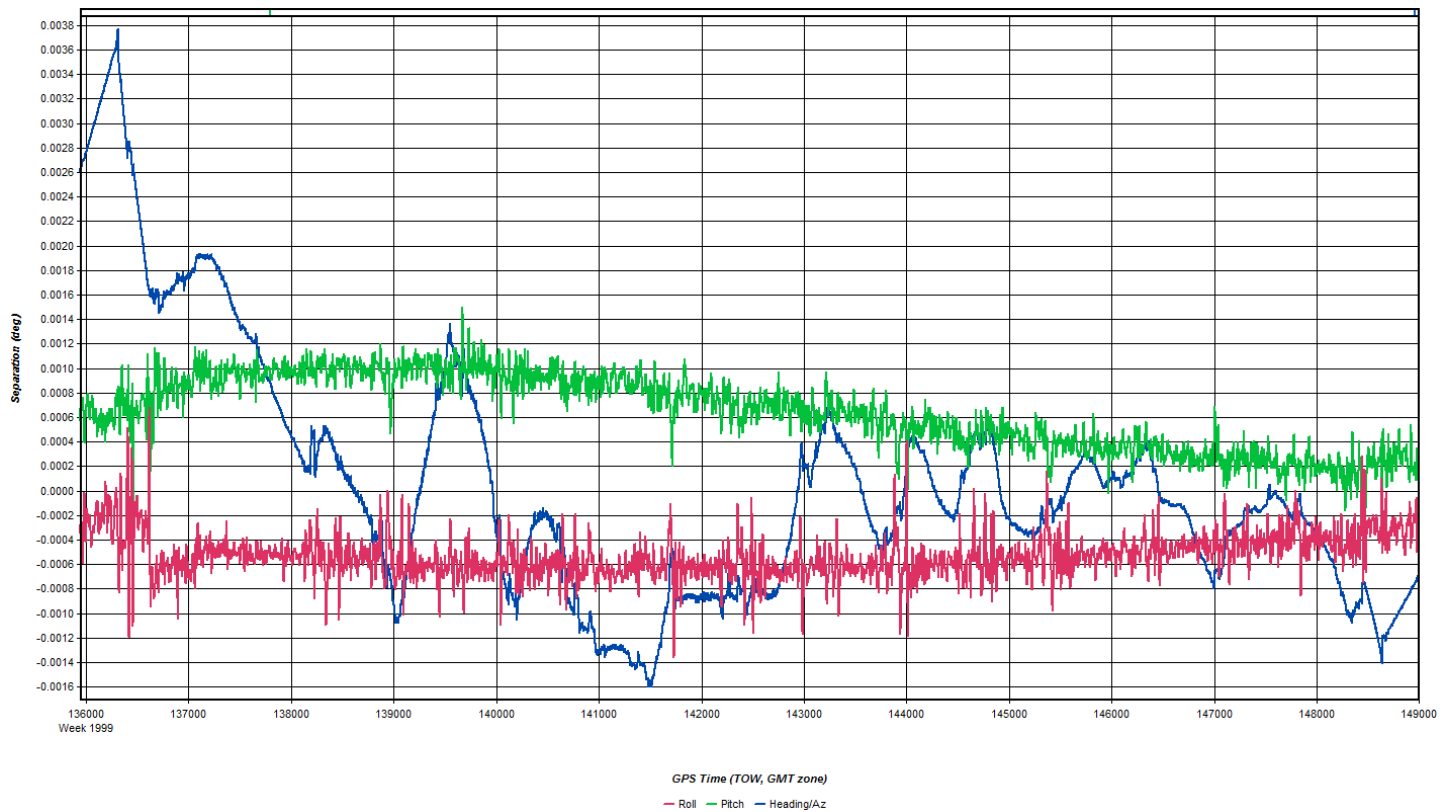
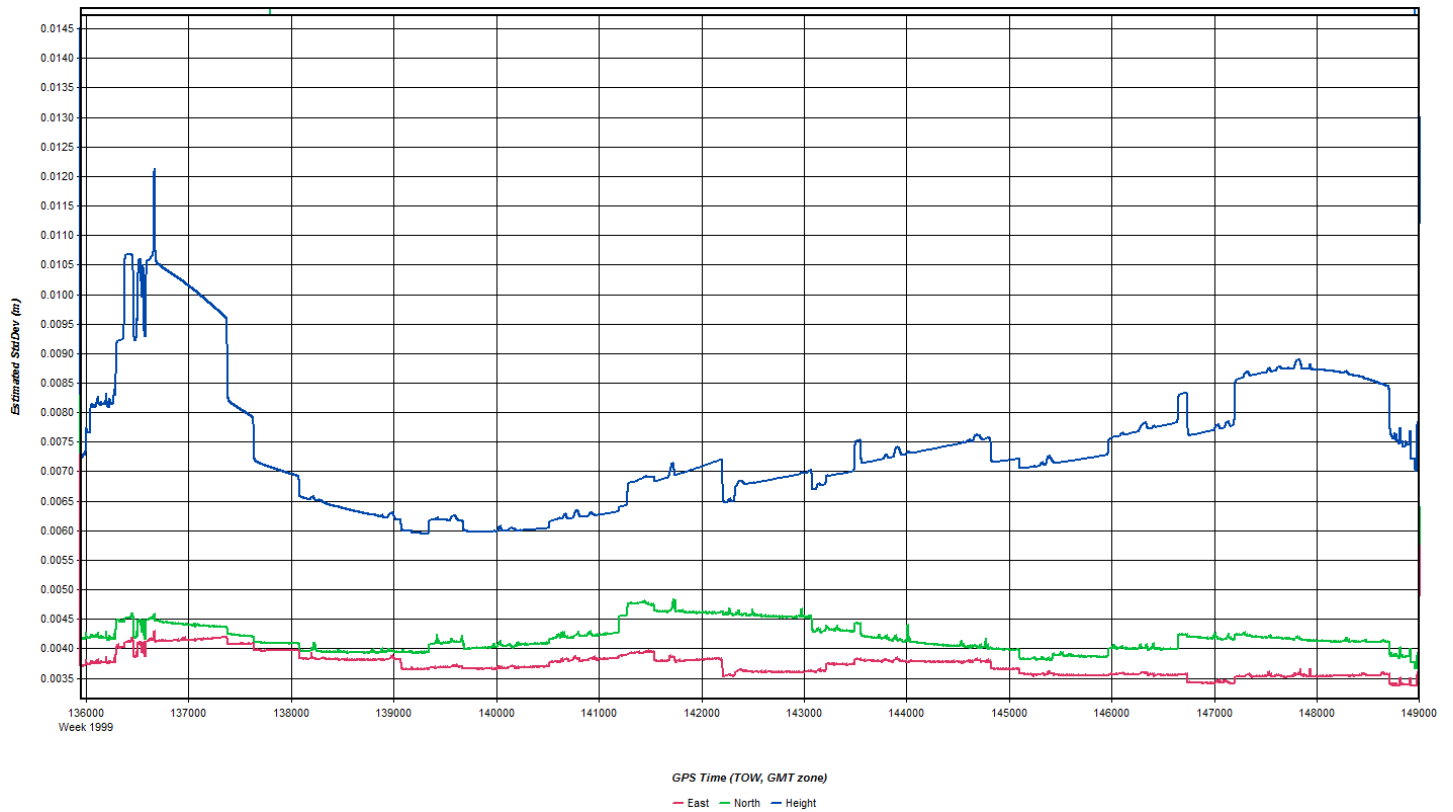


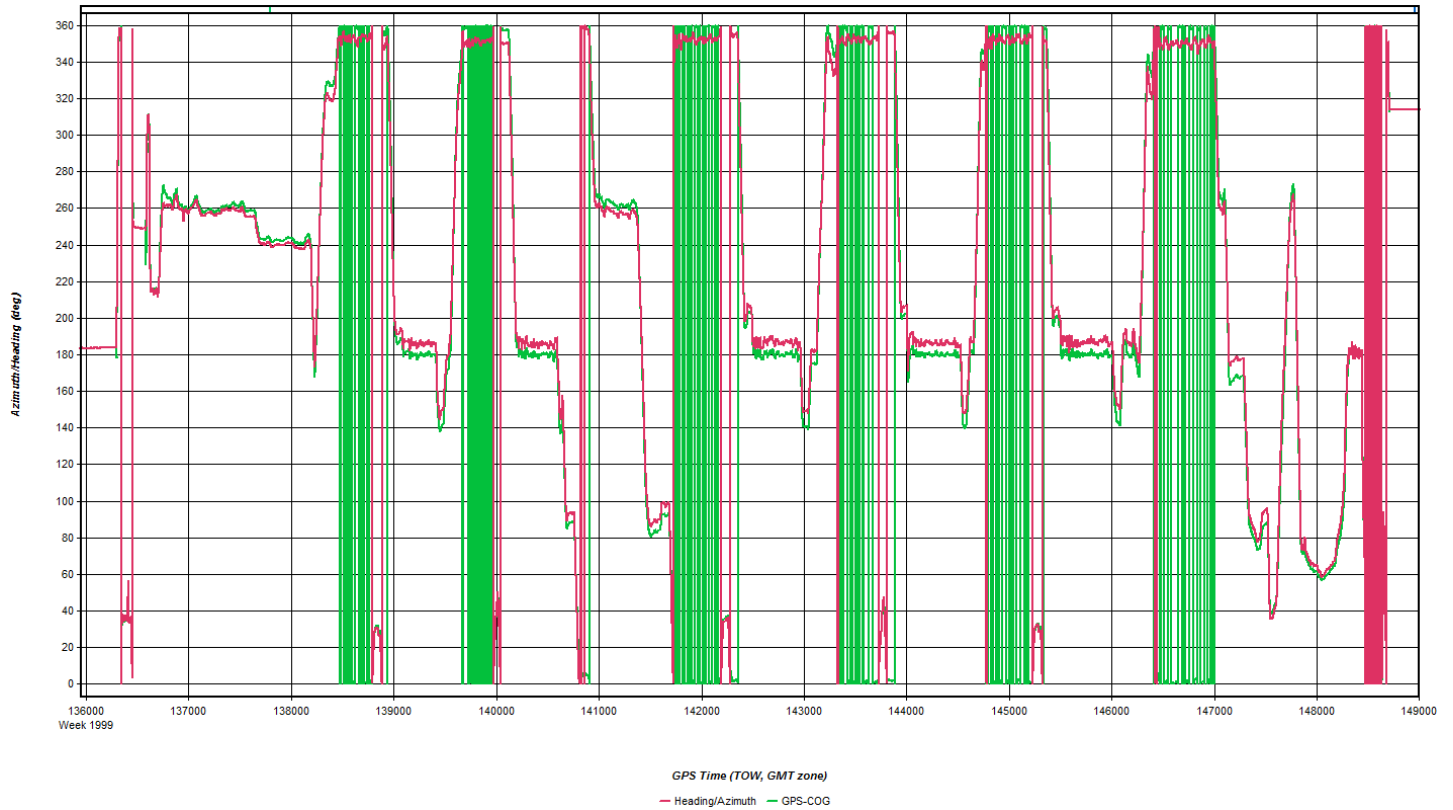
GPS Time (TOW, GMT zone)

— Roll — Pitch









Coordinate/Antenna Settings ? X

Master Remote

Base Station
 1: WIPR Name: WIPR Disabled
 File: G:\Proc\31532_WROC_Green_Lake_31592_Eden\20180430_AB_...

Coordinates
 Latitude: North 43 51 47.08208 Coord. options
 Longitude: West 89 08 32.31128 Save to Favorites
 Ellipsoidal height: 224.338 m
 Datum: WGS84 Proc Datum: WGS84
 Epoch: _____ year

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

Measured height: 0.000 m Measured to
 ARP
 L1 Phase Centre
 ARP to L1 offset: 0.065 m
 Applied height: 0.065 m Compute From Slant

OK Cancel

Flight Log

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

(email log daily to flight_log_distribution_list@quantumspatial.com)

Project: *Marguerite Co LIDAR 2018* Proj #: *329163* Flight Mgmt File: *329163_Marguerite County 2018 sm AL570*

Aircraft: *V262AS* Begin Hobbs: *69614* End Hobbs: *69638* Total: *24* Pilot: *Bob Gates* Co-Pilot: Tech: *Grady Jao*

Dep Apt: *KSBM* Dep Time (Lcl): *8:56Z* Air Apt: *KOSH* Arr Time (Local): *12:14Z* Tot Time Aloft: *3:18*

CORS: Y/N Sta 1: *WICORS Network* Sta 2: Flyovers: Y/N IF Y, times: Sta 1) Sta 2)

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

Date: *4/30/2018* Pg 1 of 1

UTC (A B C D E)

Line #	Hdg	Start (UTC)	End (UTC)	Gd Spd	FOOFS-sta	GPS Altitude	Crab	Turb (0-3)	Alt		Max Gdspd	Avg Ft Spacing	PPHM	Pulse Rate	Pulse In Air	Temp	End:	Altimeter begin:	end:	Storage Name
									AGL	MPL										
042	N	15:24	15:29	150KT	1.2/17	7200'			7161	6400'	7200'	150kt	2.7	274kft	100%					458
041	S	15:36	15:43	144	1.1/17	7150'														483
040	N	15:49	15:55	149	1.1/17	7200'														MM
039	S	16:02	16:08	144	1.2/17	7100'														018
038	N	16:14	16:20	151	1.4/16	7200'														
037	S	16:26	16:32	150	1.3/17	7100'														
036	N	16:41	16:49	155	1.3/17	7200'														
W100	E	16:55	16:58	160		7200'														
		16:58	17:03																	

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

Marguerite Co Portion of A List of the day

300' off Q to east @ start

Cross IE

closest frog

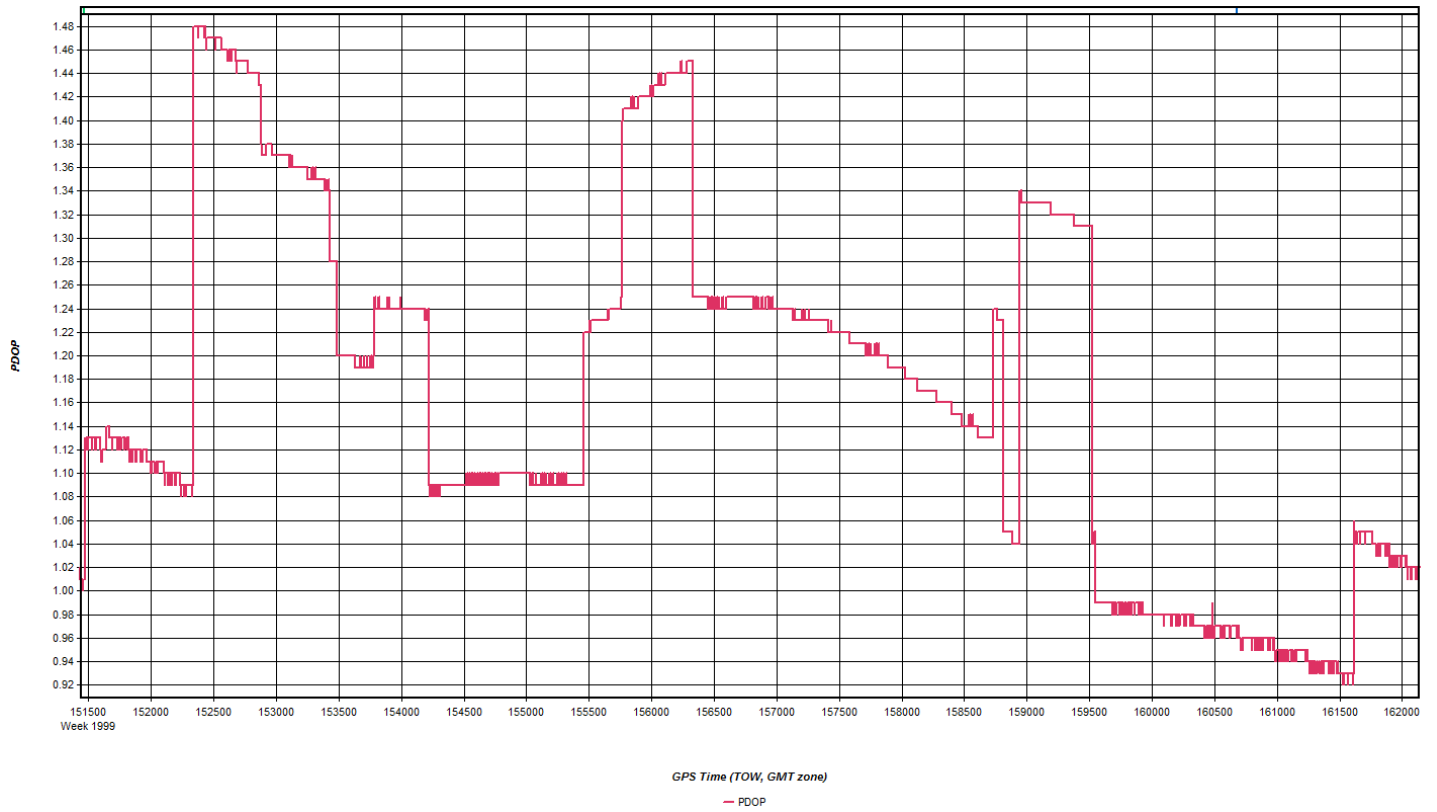
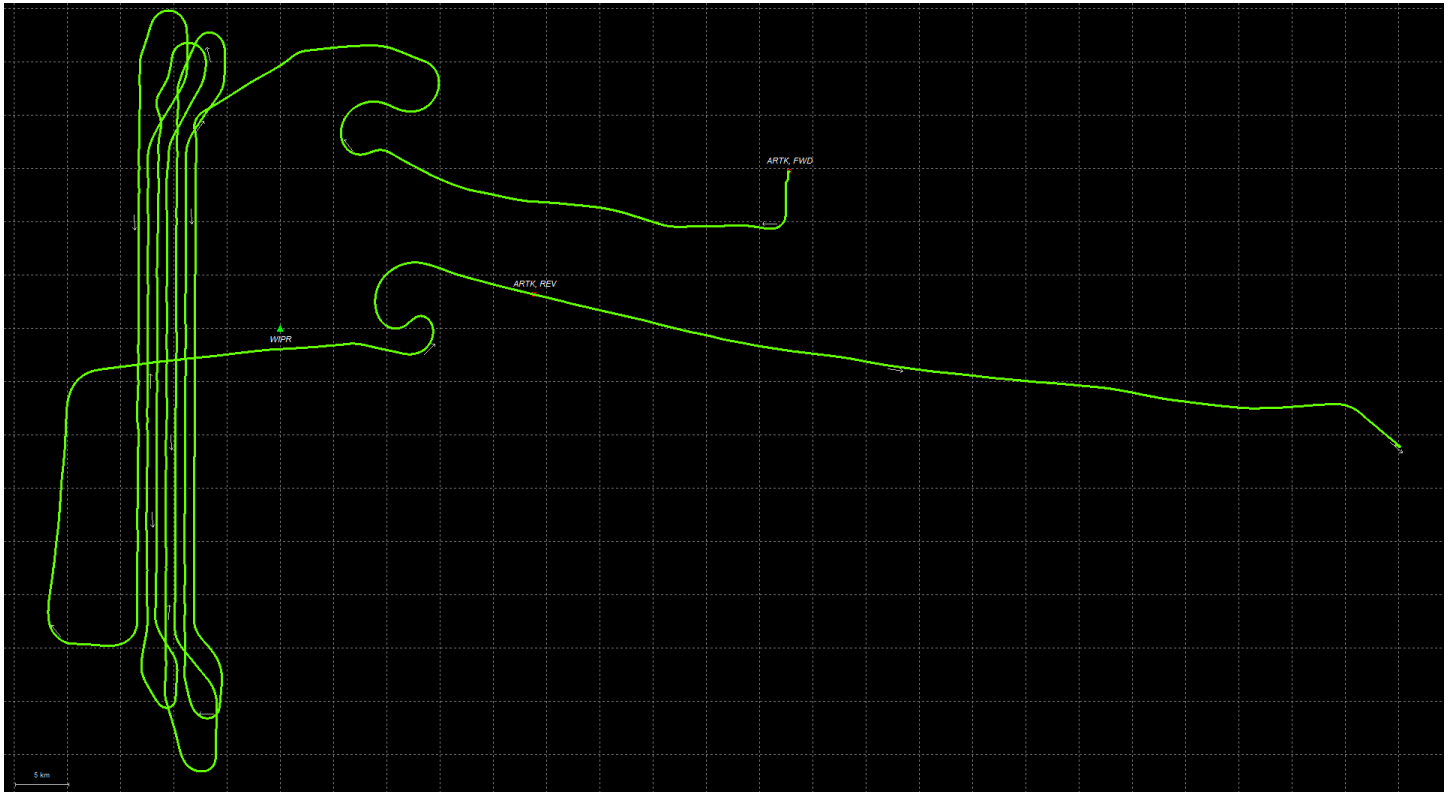
RTB KOSH for fuel

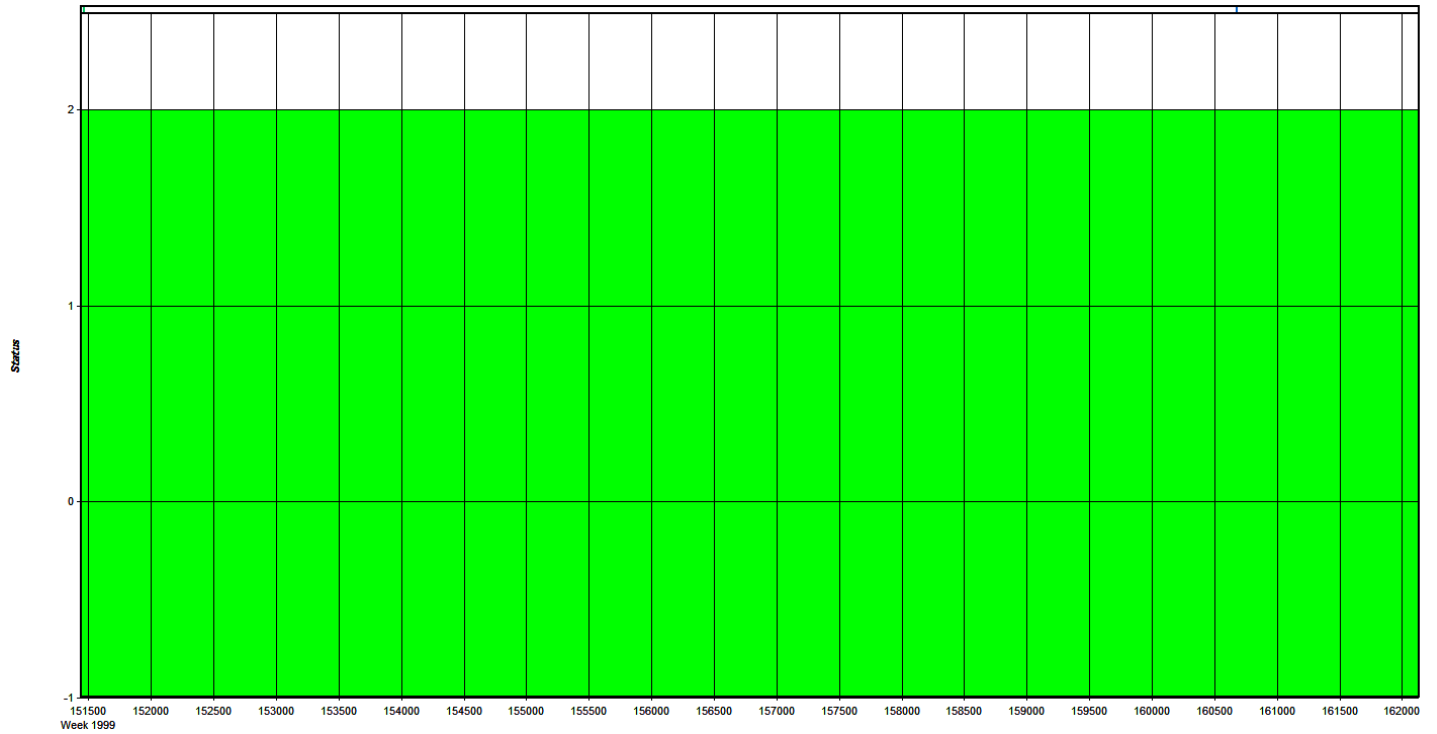
20180430-A-134313

Total Proj Lines: *42* Lines Flown: *7*

Lines Remain: *35* Online Time: *1:8* Mob Time: *.2* Notes:

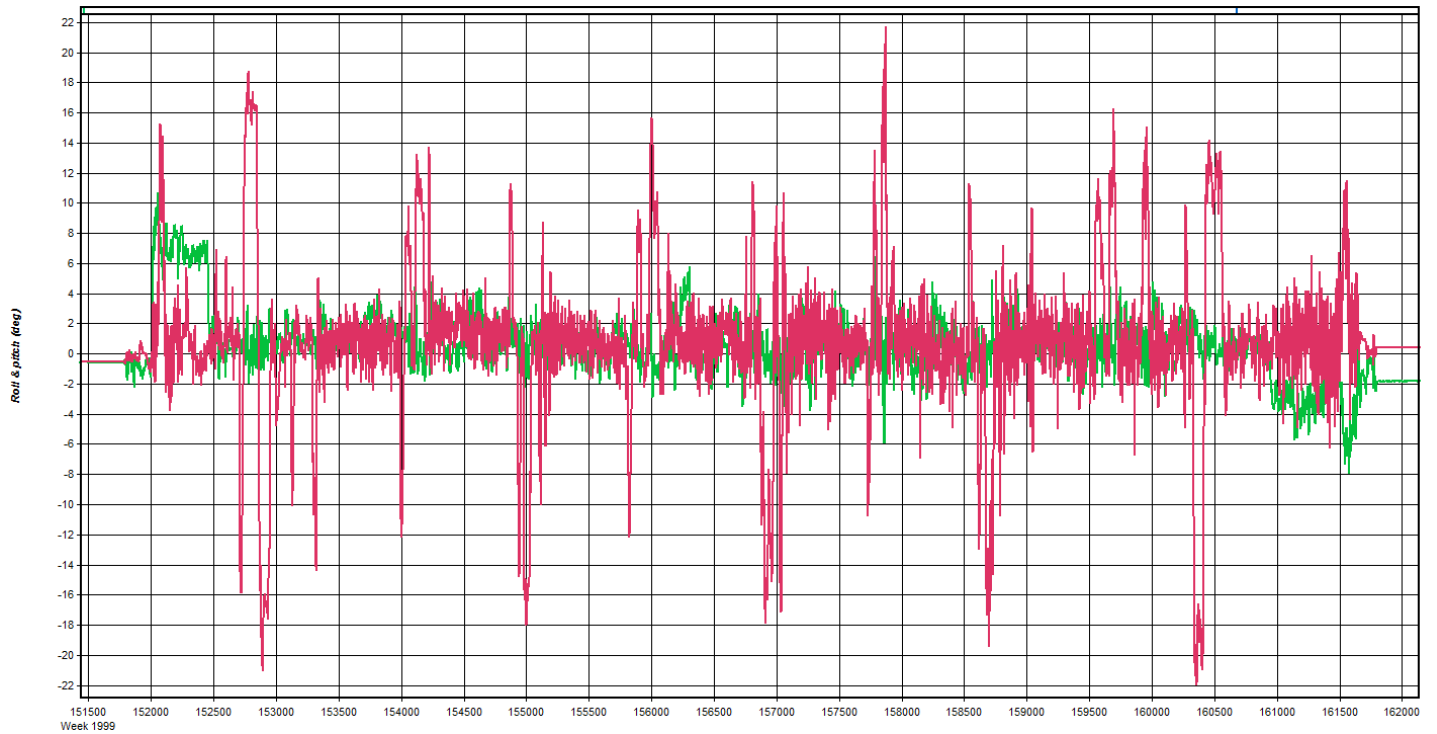
April 30, 2018-B (SN7161, N262AS)





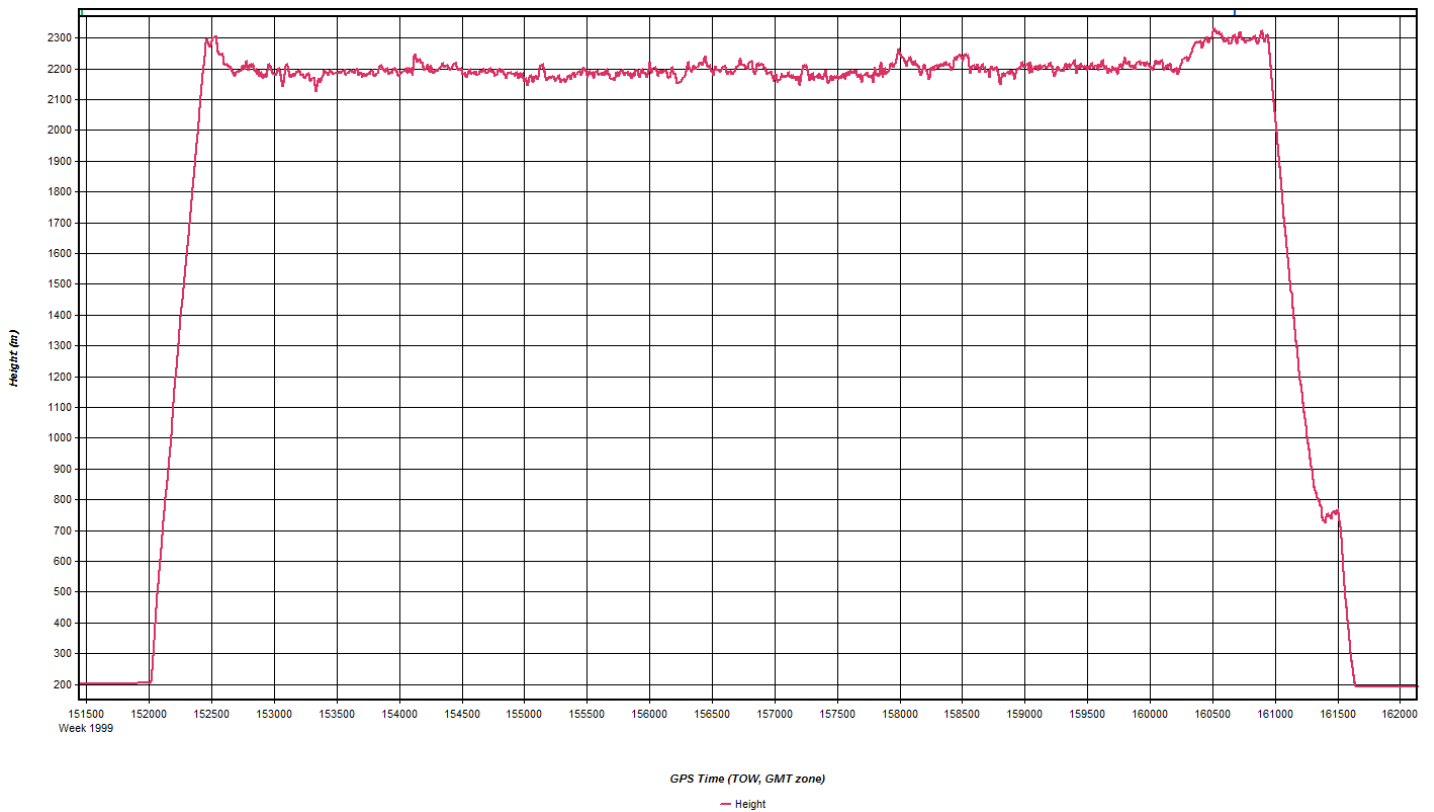
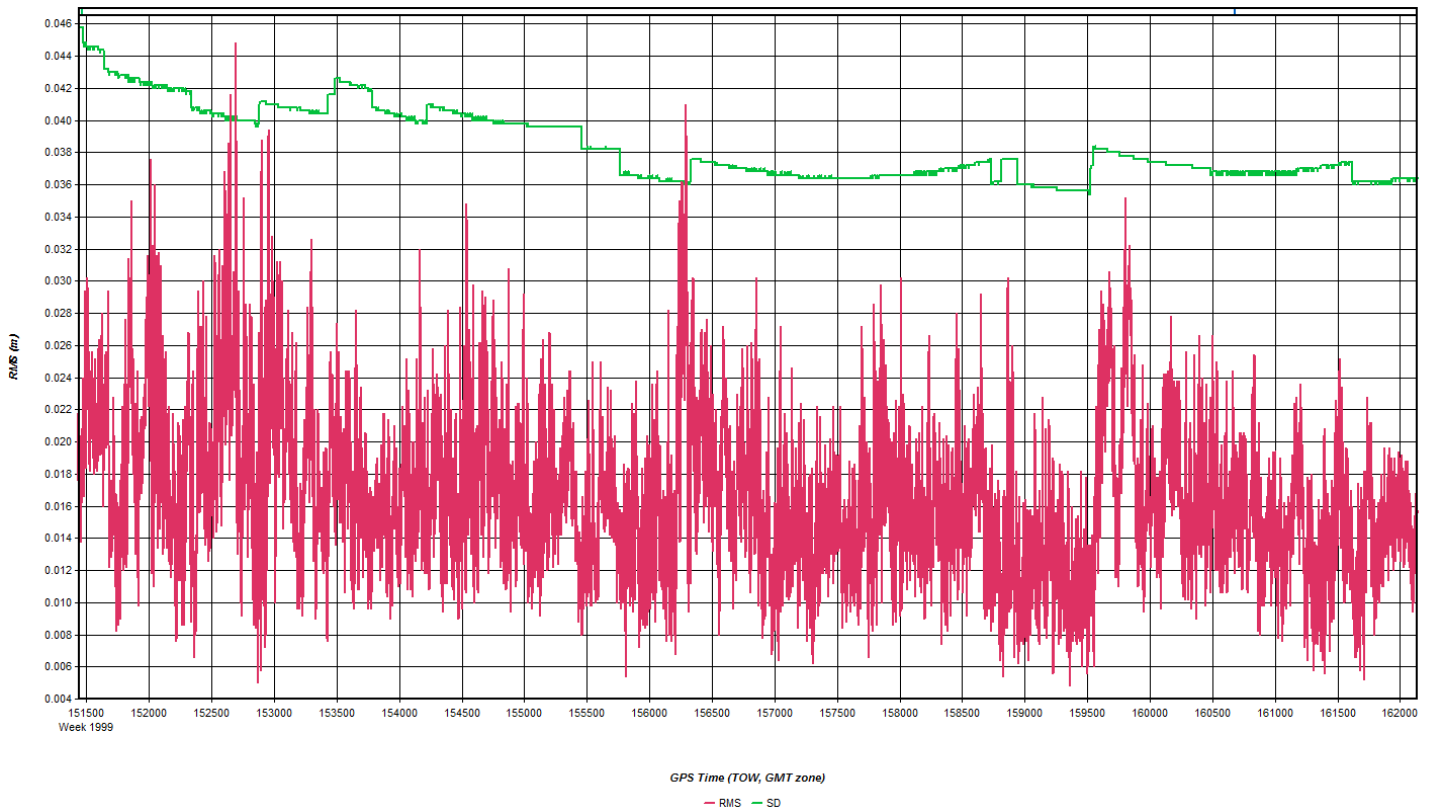
GPS Time (TOW, GMT zone)

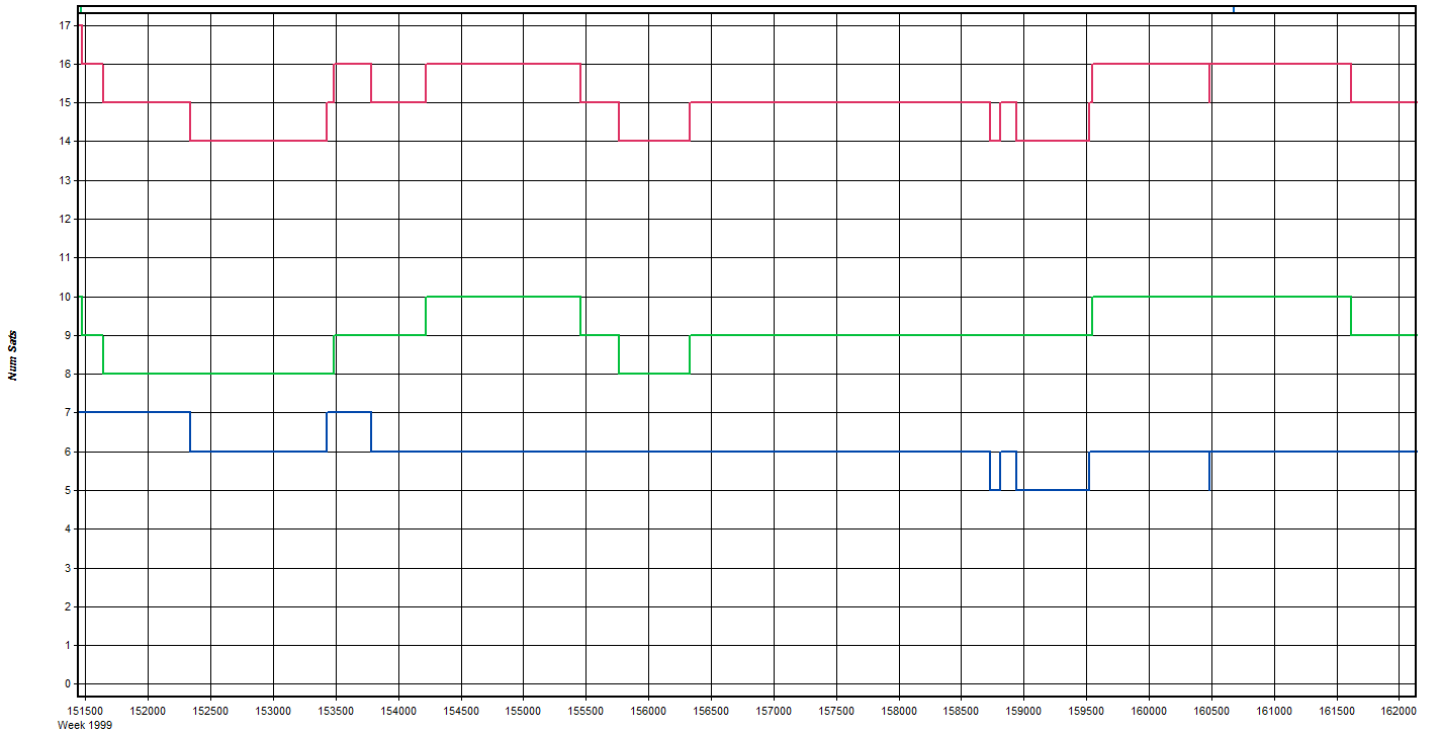
— Float — Forward Fixed — Reverse Fixed — Fixed (2 or more)



GPS Time (TOW, GMT zone)

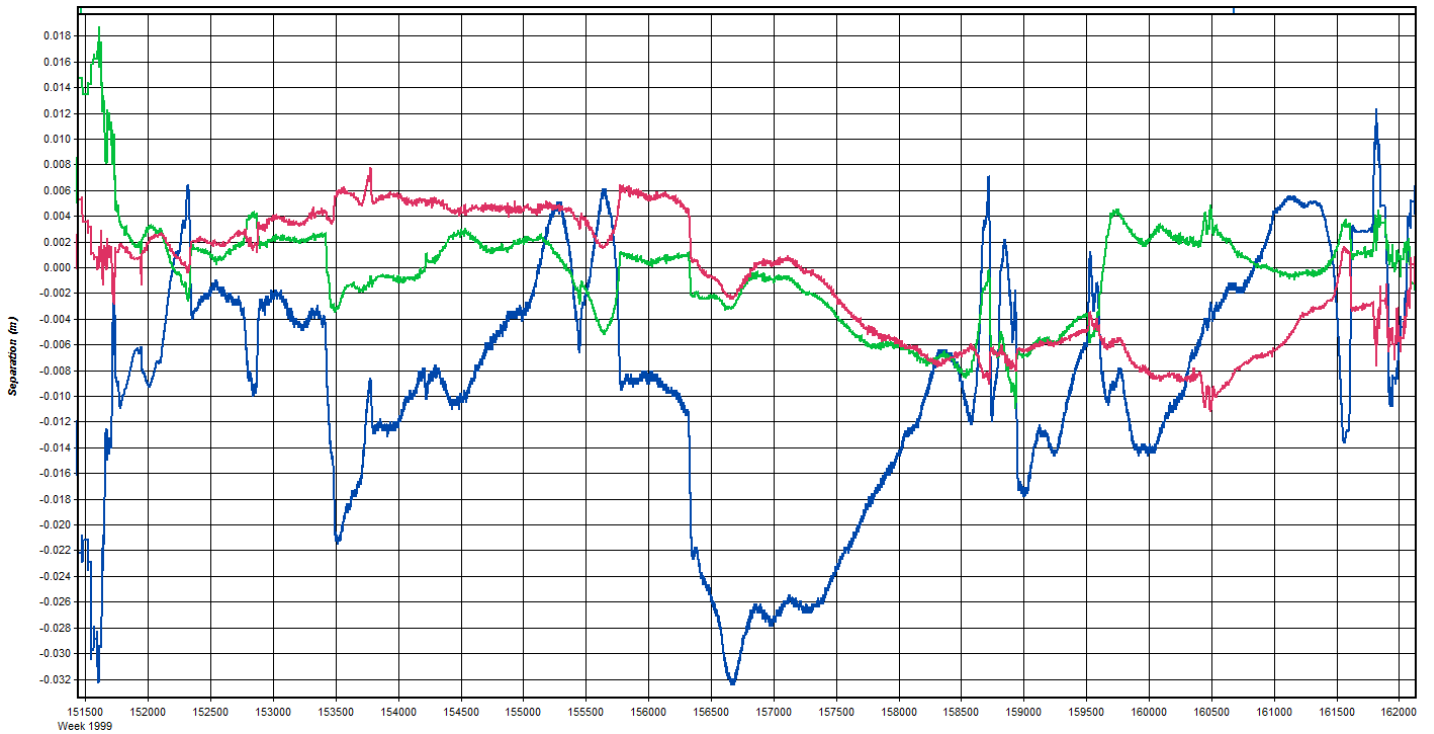
— Roll — Pitch





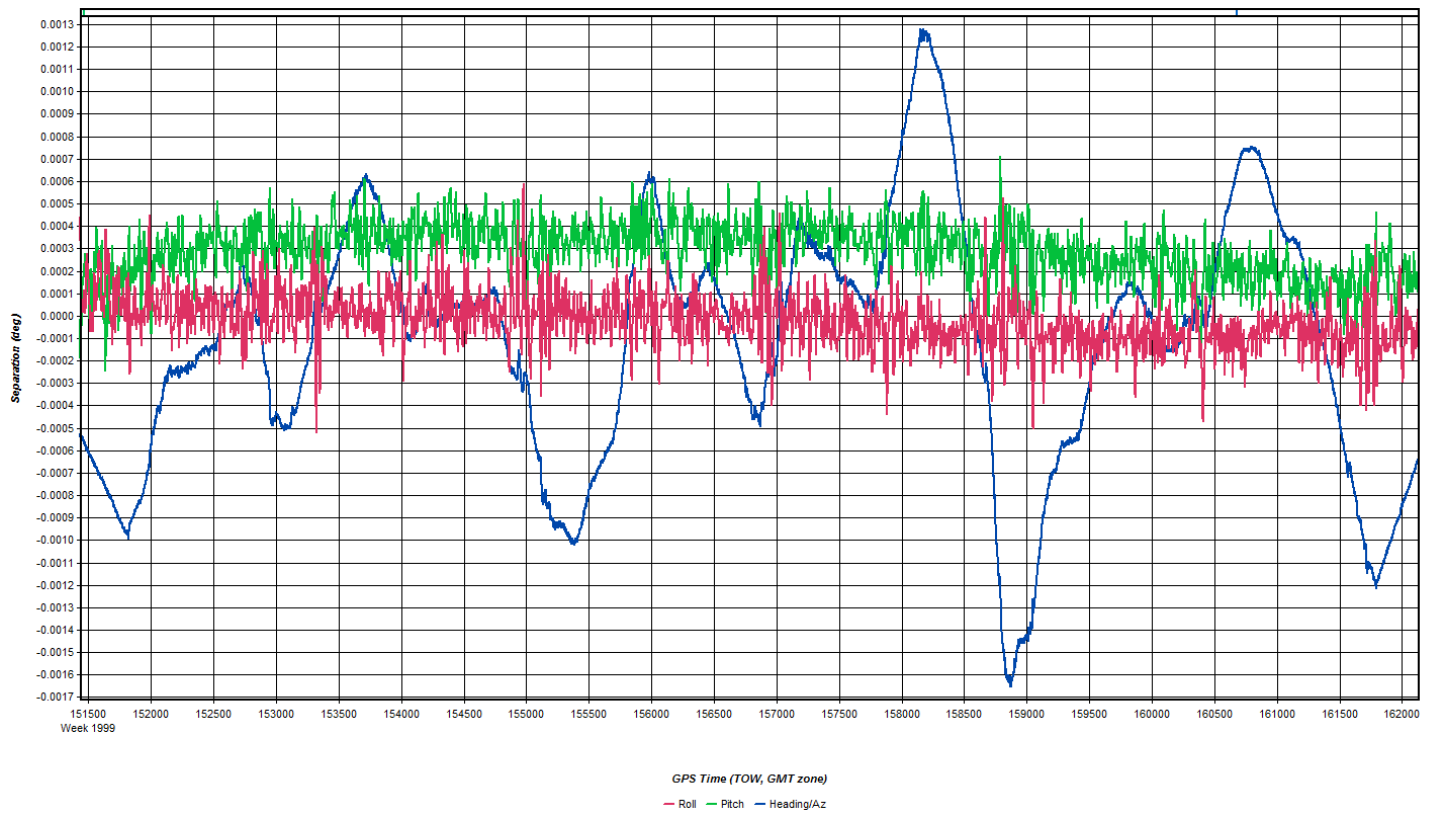
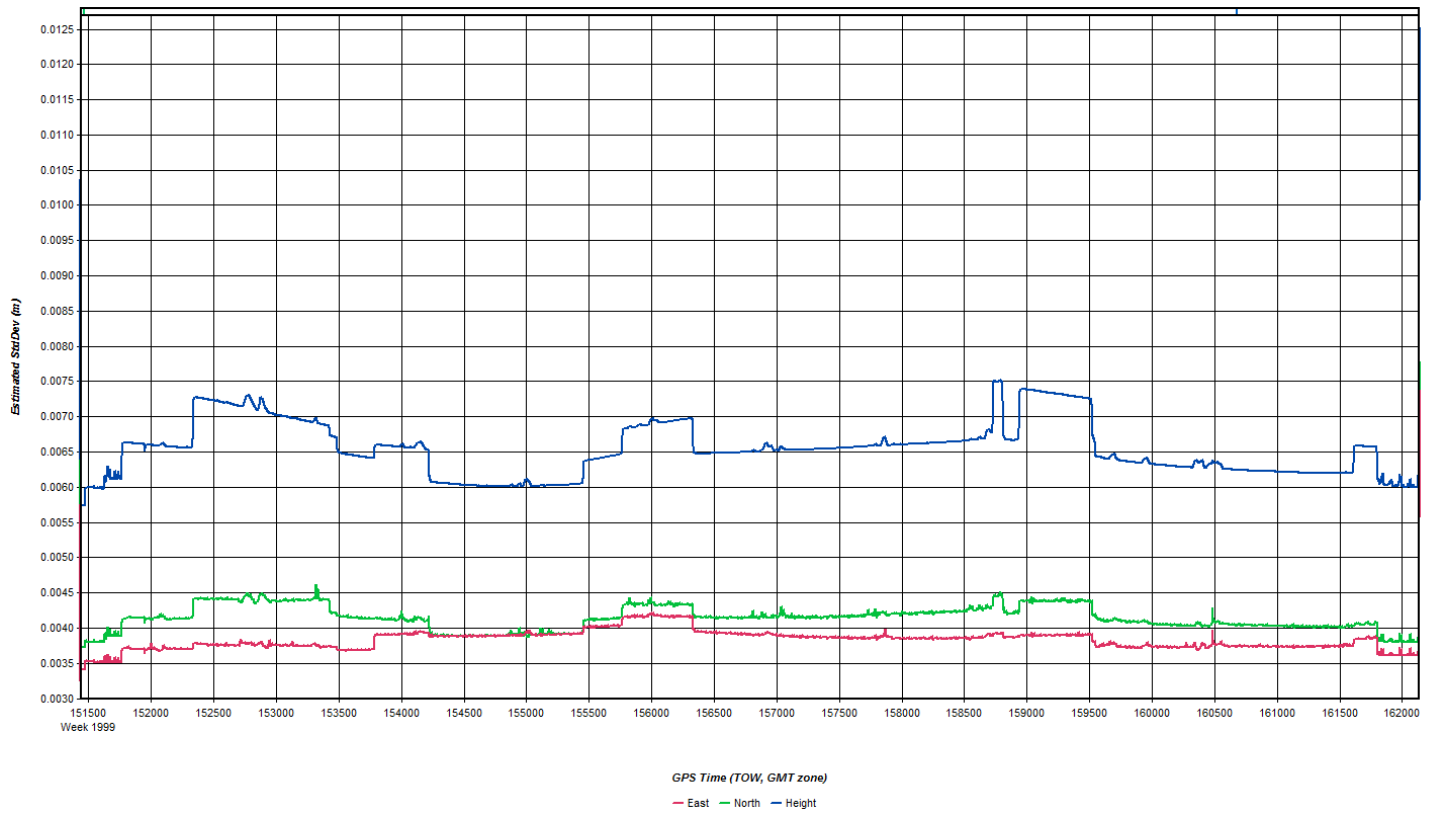
GPS Time (TOW, GMT zone)

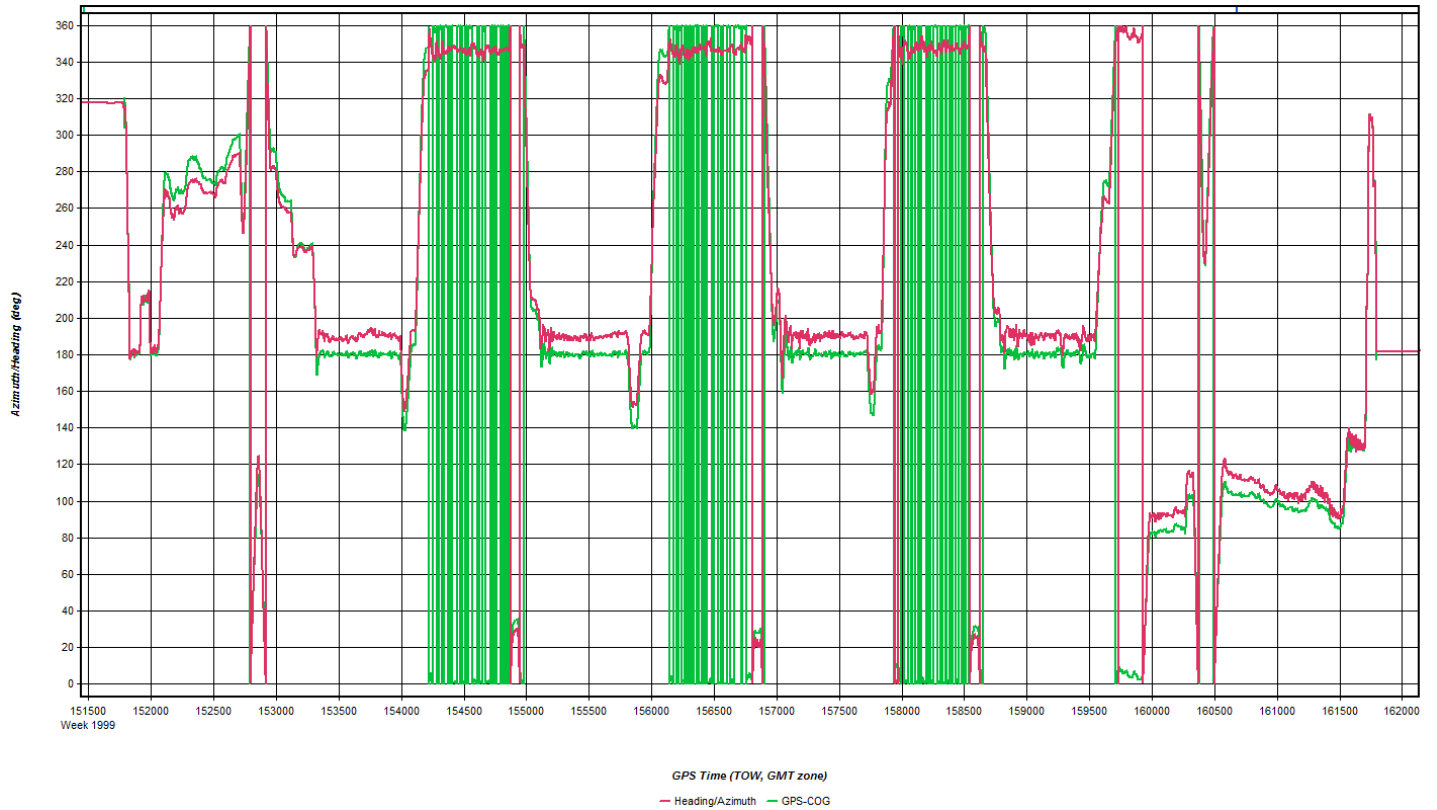
— Num Sats — GPS — GLONASS — BeiDou — Galileo — QZSS



GPS Time (TOW, GMT zone)

— East — North — Up





Master Remote

Base Station
 1: WIPR Name: WIPR Disabled
 File: G:\Proc\31532_WROC_Green_Lake_31592_Eden\20180430_AB_...

Coordinates
 Latitude: North 43 51 47.08208 Coord. options
 Longitude: West 89 08 32.31128 Save to Favorites
 Ellipsoidal height: 224.338 m
 Datum: WGS84 Proc Datum: WGS84
 Epoch: year

Antenna Height
 From station file: TRM57971.00, NONE View STA File
 Antenna profile: TRM57971.00 Info
 Measured height: 0.000 m Measured to
 ARP to L1 offset: 0.065 m ARP
 Applied height: 0.065 m L1 Phase Centre

Flight Log

Date: 4/30/2018
Pg 1 of 1

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

(email Log daily to flight_log_distribution_list@quantumspatial.com)

Project: Maryette Co LIDAR 2ppm	Proj #: 32963	Flight Mgmt File: 32963-Maryette County 2ppm-AL570	Tech: Gary Lee
Aircraft: M262AS	Begin Hobbs: 6966.5	Total: 2.7	Pilot: Bob Gates
Dep Apt: KOSH	Dep Time (Lcl): 1:16 (Z)	Arr Apt: KSBM	Arr Time (Local): 3:54 (Z)
CORS: Y N		Sta 1: WI-CORS Network	Sta 2: PPP
GPS Unit: Y (N)		Sta 1:	Sta 2:

Gd Temp beg:		°C		End:		°C		OAT beg:		°C		End:		°C	
TYPALS 70	Serial#	7161	Alt	6400'	Alt	7200'	Alt	7200'	Alt	7200'	Alt	7200'	Alt	7200'	Alt
FOV 36°	Scan Freq	56 Hz	MplA	Y/N	2	Pulse Rate	275 kHz	Power	100%	PPM	2	Avg Pt Spacing	150 ft	Max Glpsd	150 ft

Line #	Hdg	Start (UTC)	End (UTC)	Gd Spd	Foot-cs	GPS Altitude	Crab	Turb	(0..+)
		18:25	18:30						
035	S	18:36	18:46	130ft	1:17	7200'	0'	0	
034	N	18:52	19:01	137	1:17	7200'	4'	0	
033	S	19:07	19:16	135	1:17	7200'	3'	0	
032	N	19:24	19:33	138	1:21	7200'	2'	+	
031	S	19:38	19:48	139	1:51	7200'	2'	+	
030	N	19:53	20:02	152	1:11	7300'	2'	+	
029	S	20:09	20:19	125	1:19	7200'	2'	+	
028	E	20:26	20:31	160	1:21	7200'	-	-	
		20:31	20:37						

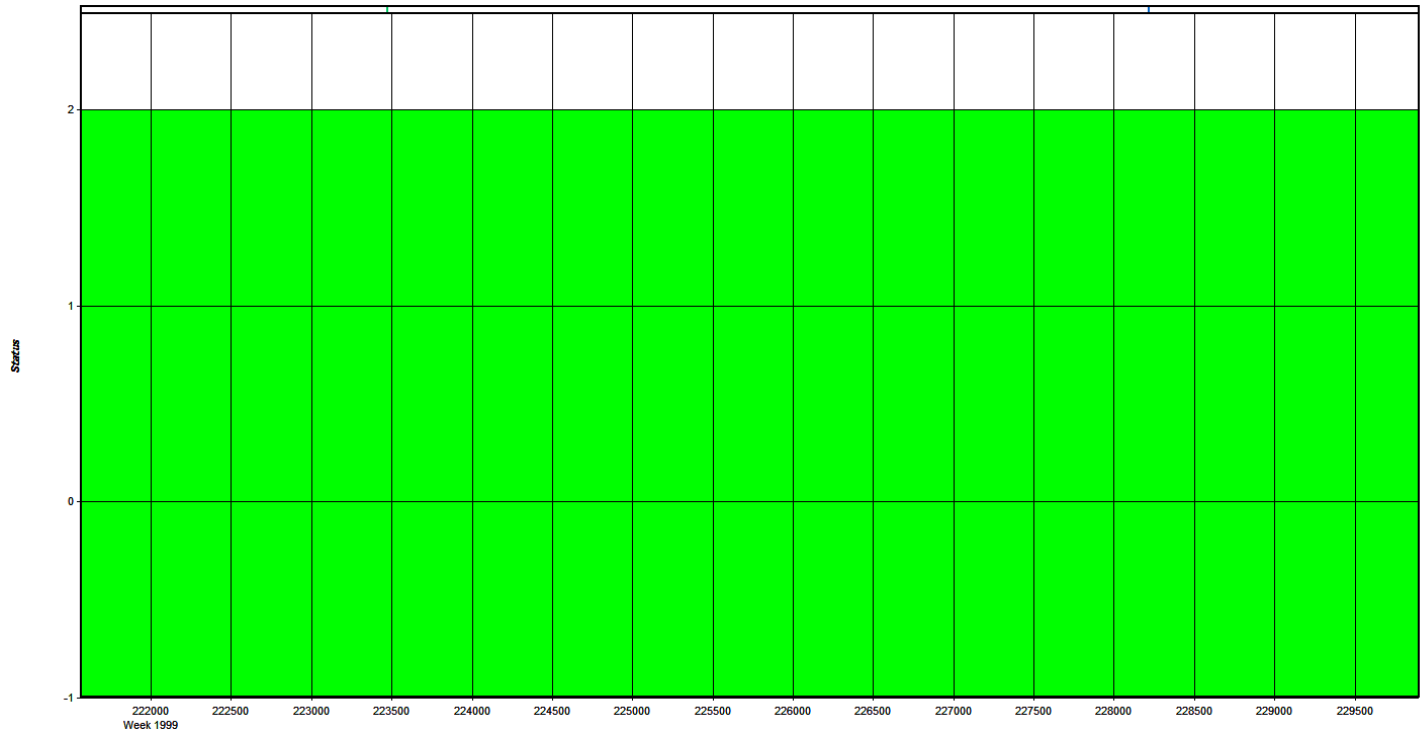
FLIGHT LINE NOTES - visibility, clouds, smoke, partial, etc.									
opening 5-Turn									
" Hazy ; Broken Overcast									
" "									
drifted 320' west of @ end; turb									
turbulent Hazy									
Hazy									
TURBULENCE @ 5 NM FNE									
XTIE									
Closeout 5-Turn									

Mag Cal	483	Storage Name	MM
End Cal	508		018
Tot Cal	25		

Total Proj Lines: 42	Lines Flown: 7	Lines Remain: 28	Online Time: 2.1	Job Time: 1.6	Notes: 20180430-B-180221
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May 1, 2018-A (SN7161, N262AS)





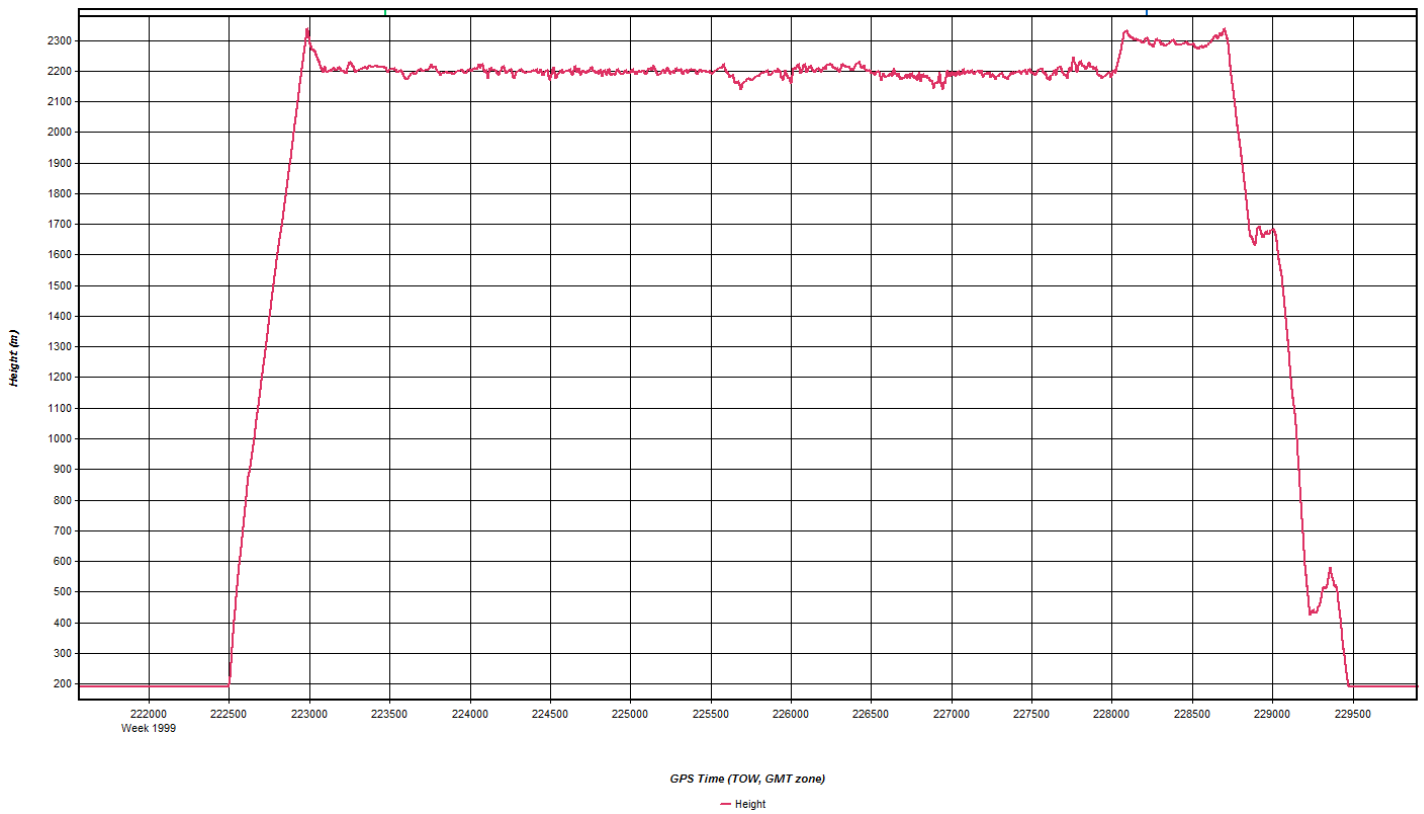
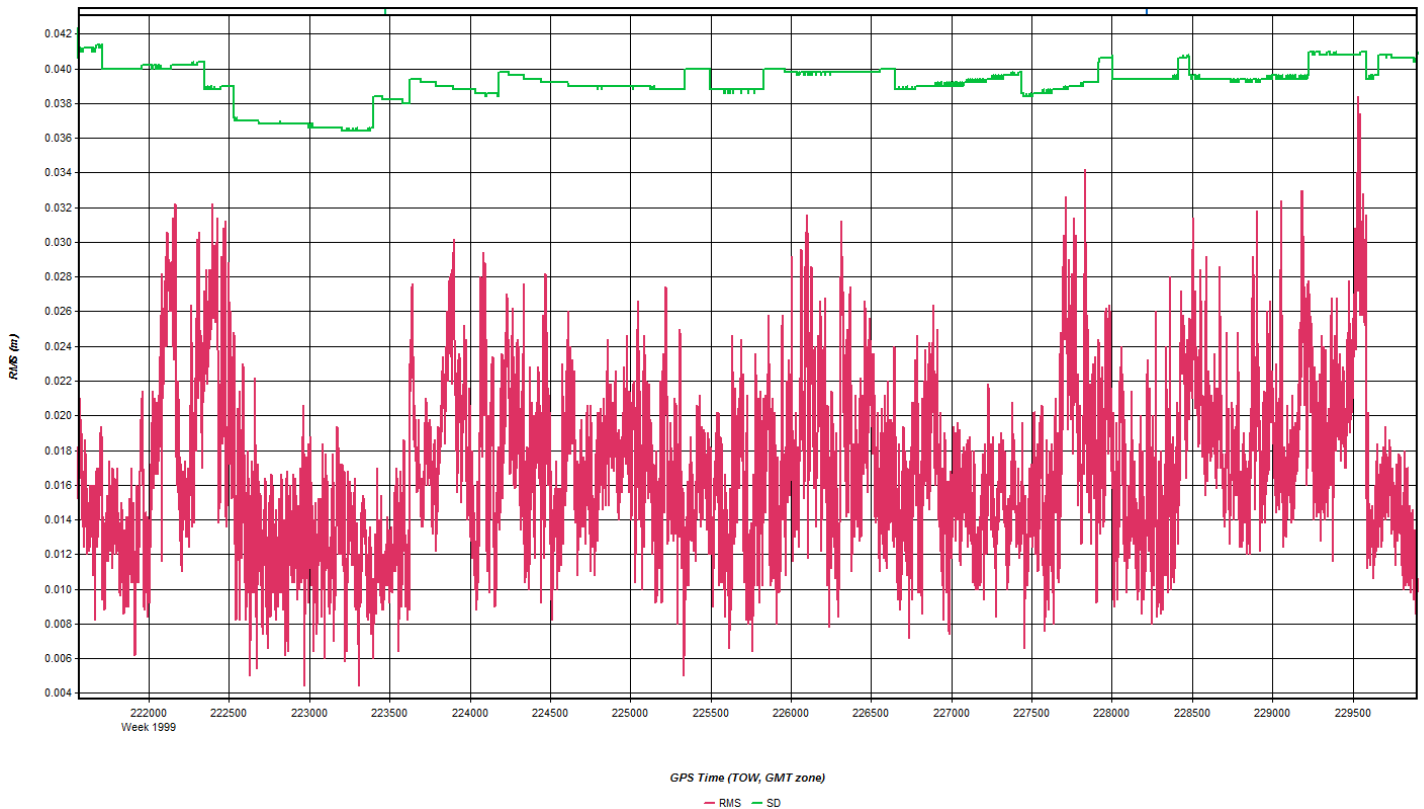
GPS Time (TOW, GMT zone)

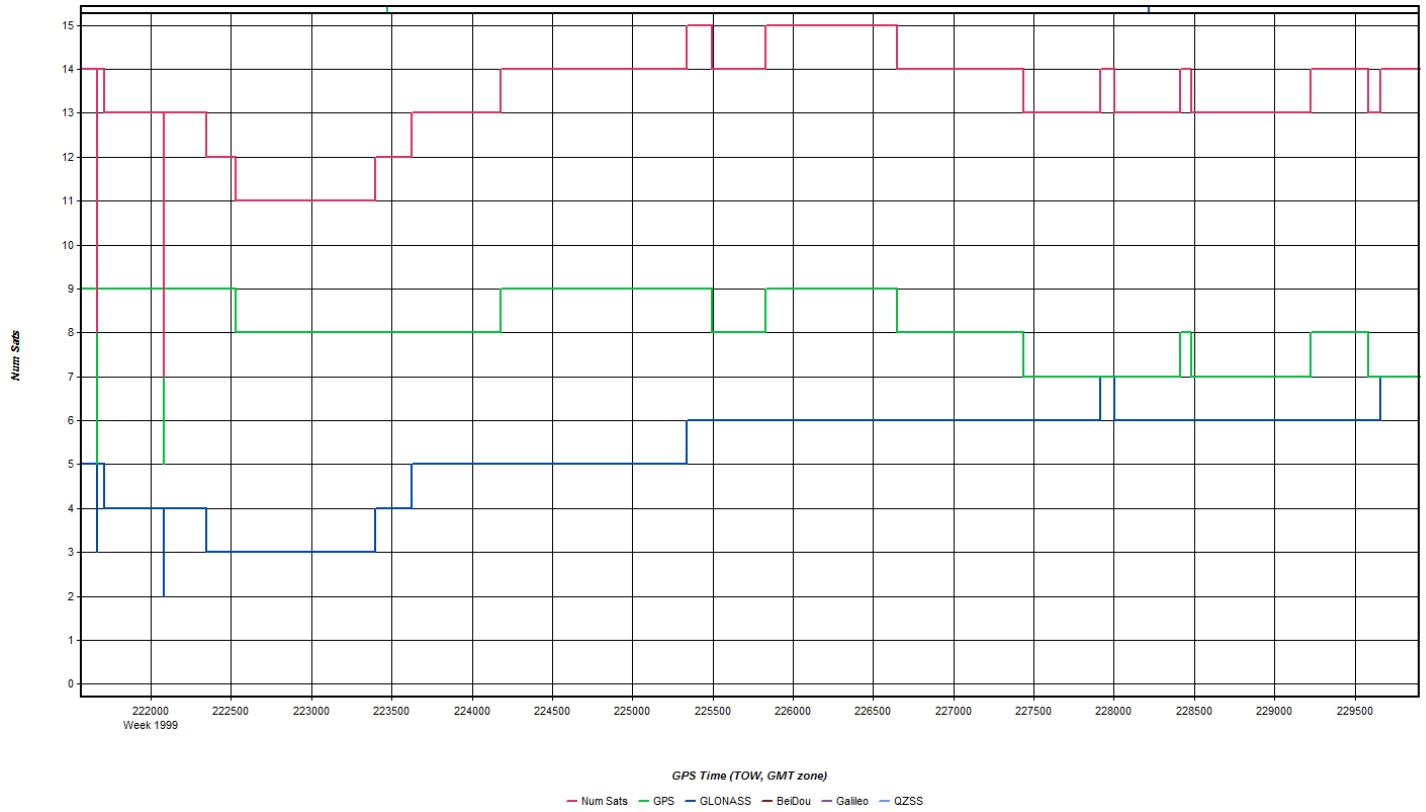
— Float — Forward Fixed — Reverse Fixed — Fixed (2 or more)

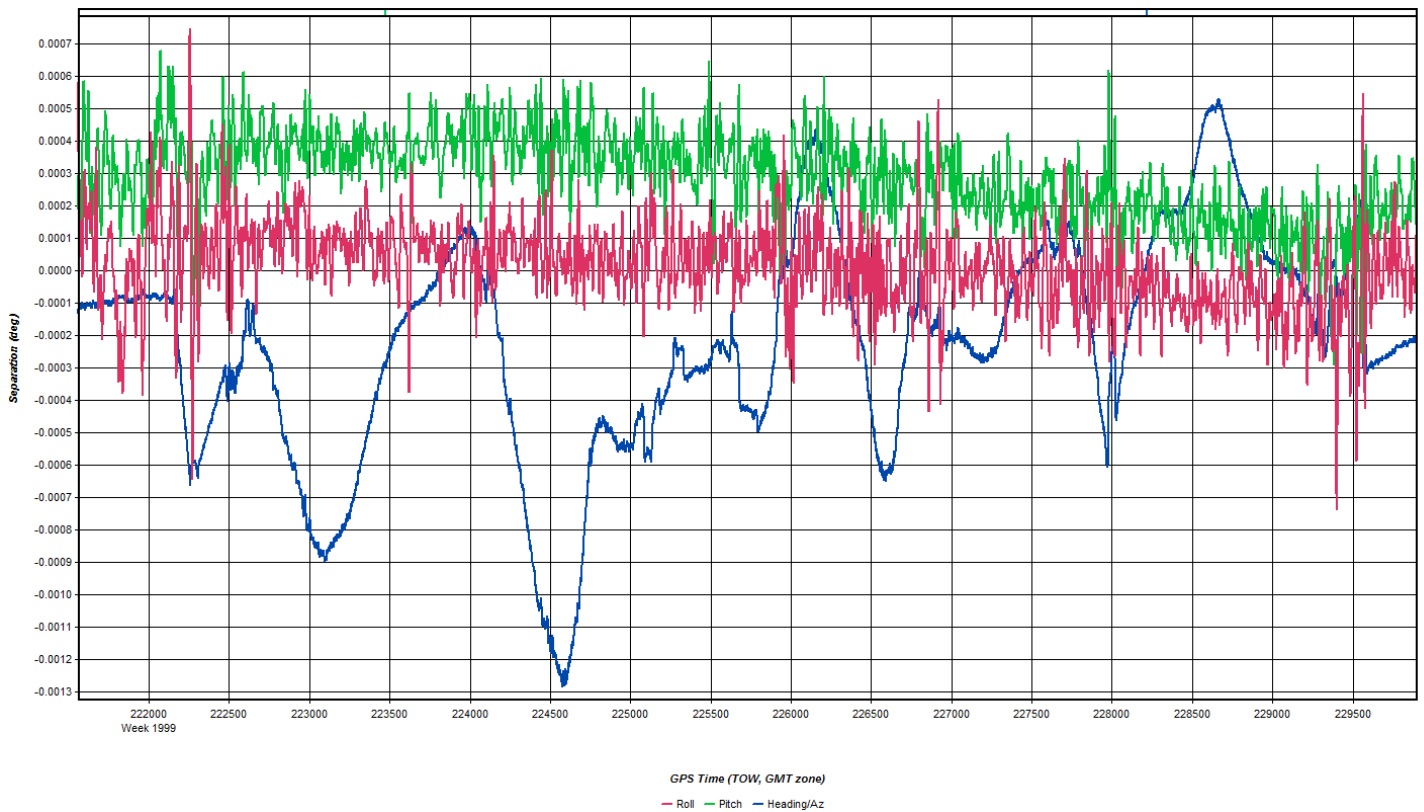
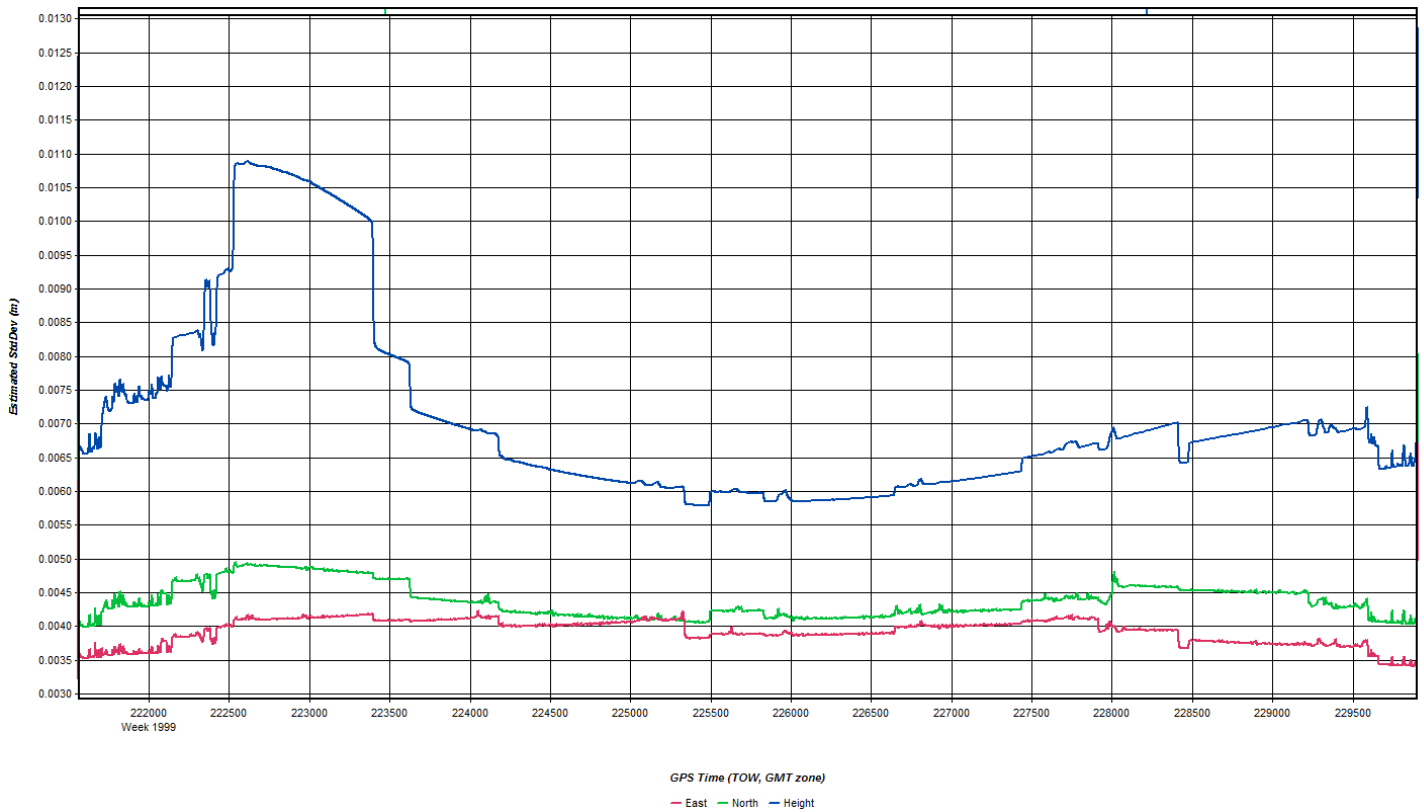


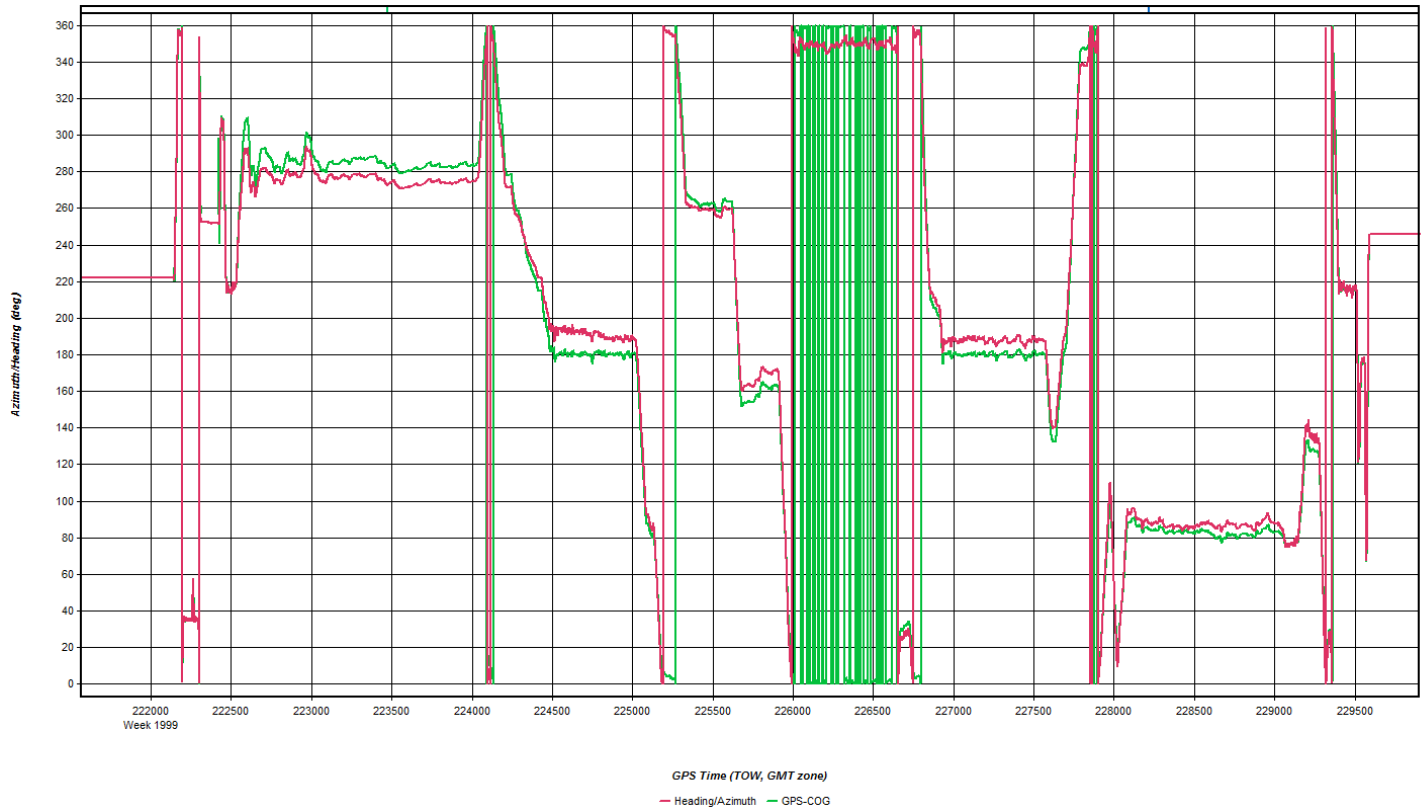
GPS Time (TOW, GMT zone)

— Roll — Pitch









Master Remote

Base Station
 1: WIPR Name: WIPR Disabled
 File: G:\Proc\32963_Marquette_Co_LiDAR\20180501_A_32963_SN716

Coordinates
 Latitude: North 43 51 47.08208 Coord. options
 Longitude: West 89 08 32.31128 Save to Favorites
 Ellipsoidal height: 224.338 m
 Datum: WGS84 Proc Datum: WGS84
 Epoch: year

Antenna Height
 From station file: TRM57971.00, NONE View STA File
 Antenna profile: TRM57971.00 Info
 Measured height: 0.000 m Measured to
 ARP to L1 offset: 0.065 m ARP
 Applied height: 0.065 m L1 Phase Centre

Flight Log

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

Date: 5/1/2018
 Lit: (A) B C D E Pg 1 of 1

Project: WI FEMA Marquette Co Proj #: 32963 Flight Mgmt File: 32963 - Marquette County - 4ppsm - ALS 70
 Aircraft: 262 AS Begin Hobbs: 6966.5 End Hobbs: 6968.4 Total: 1.9 Pilot: Bob Gates Co-Pilot: Tech: Gary Leo
 Dep Apt: KSB M Dep Time (Lcl): 8:45 (Z): 13:45 Arr Apt: KSBM Arr Time (Local): 0145 (Z): 15:45 Tot Time Aloft: 2:00

COORS: (Y) N Sta 1: PPP/WI CoRS Sta 2: Flyovers: Y / (N) IF Y, times: Sta 1) Flyovers: Y / N IF Y, times: Sta 2)

GPS Unit: Y / (N) Sta 1: Sta 2:

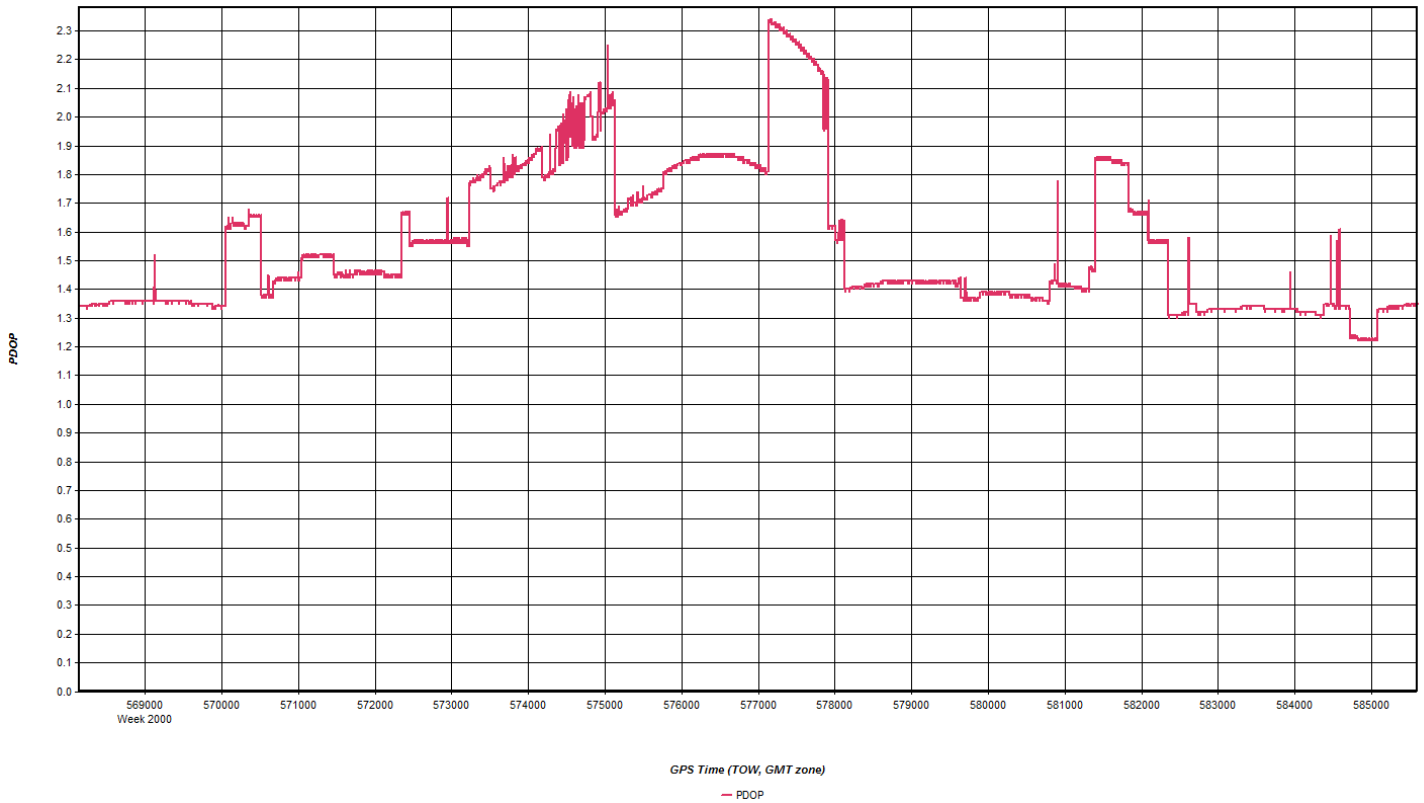
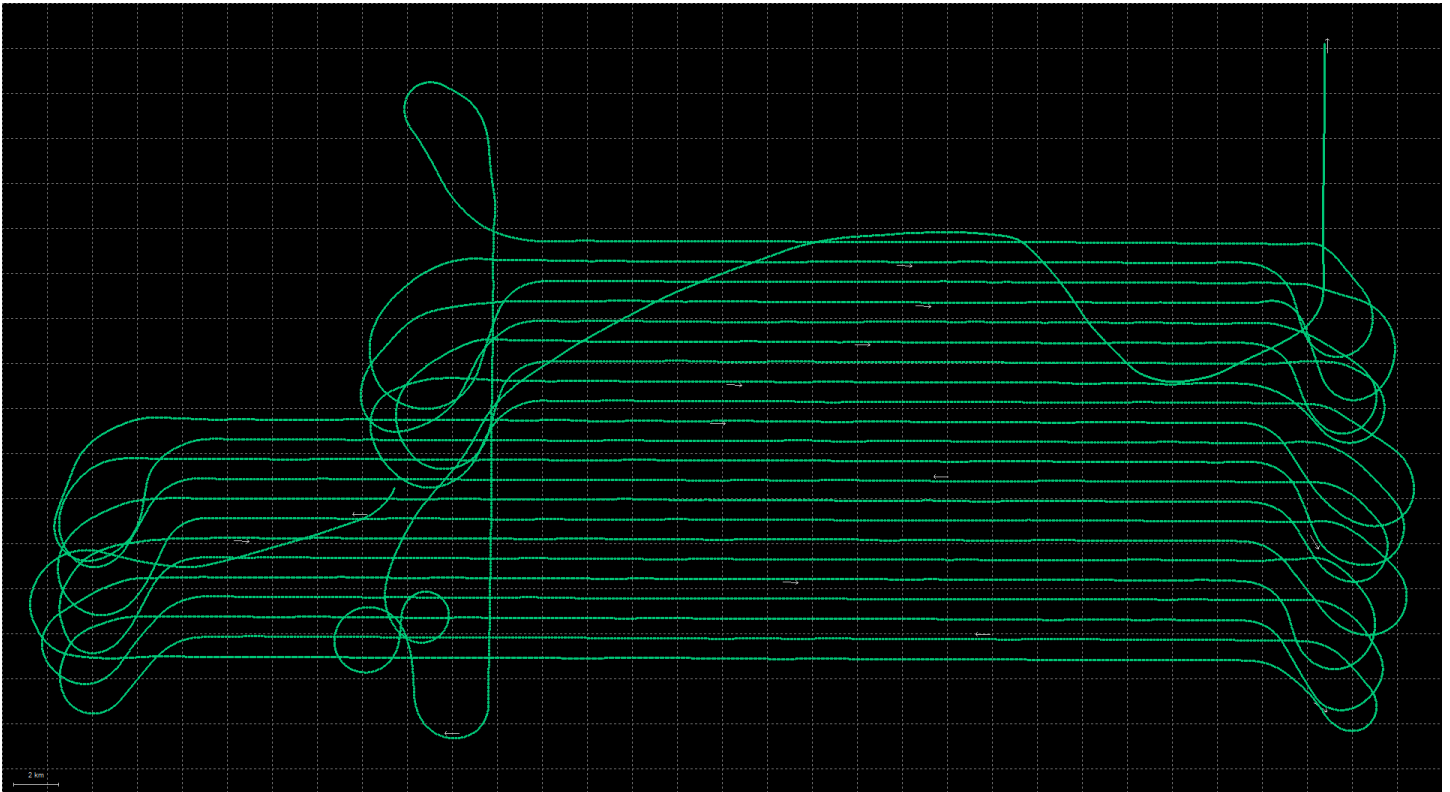
Gd Temp beg: °C End: °C OAT beg: °C End: 24 °C Altimeter begin: end: 29.86

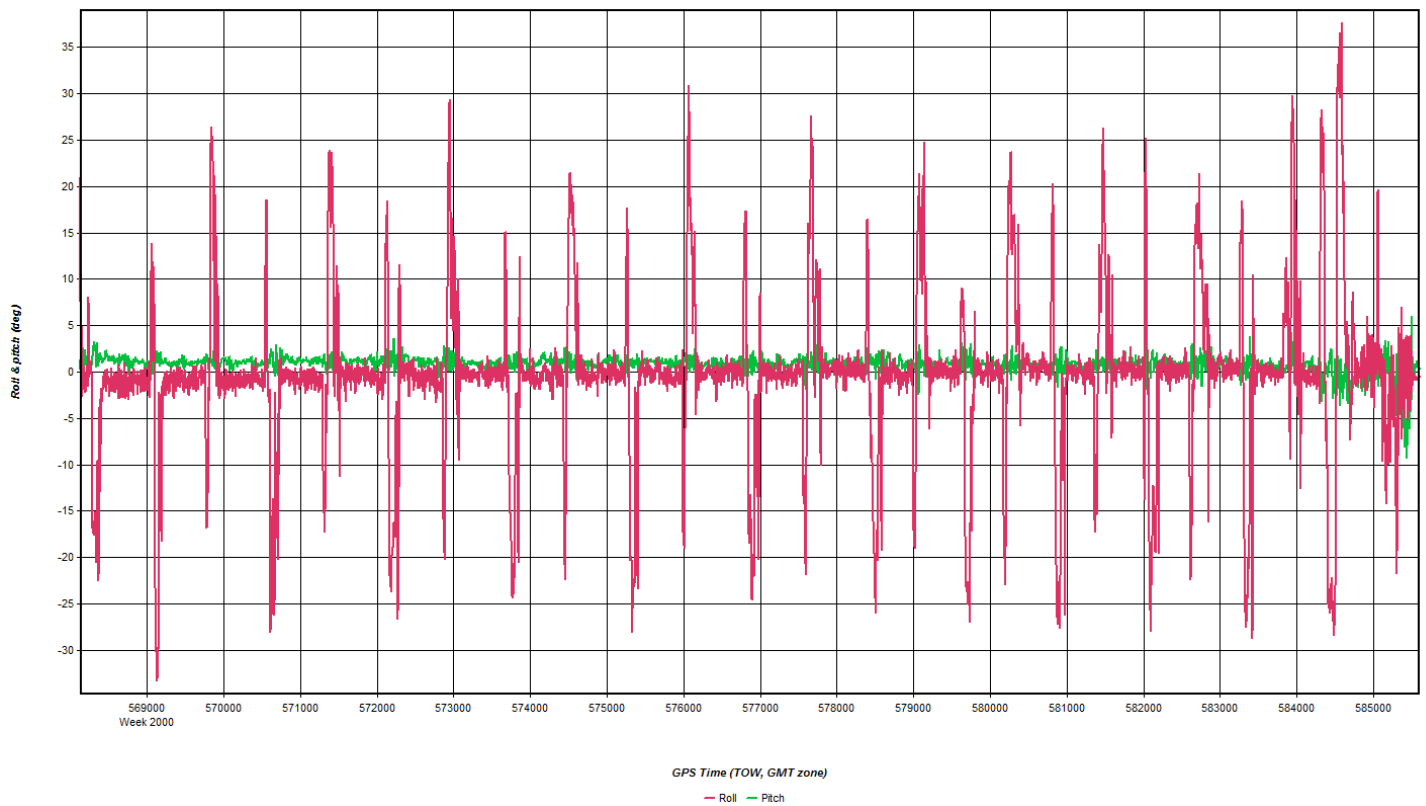
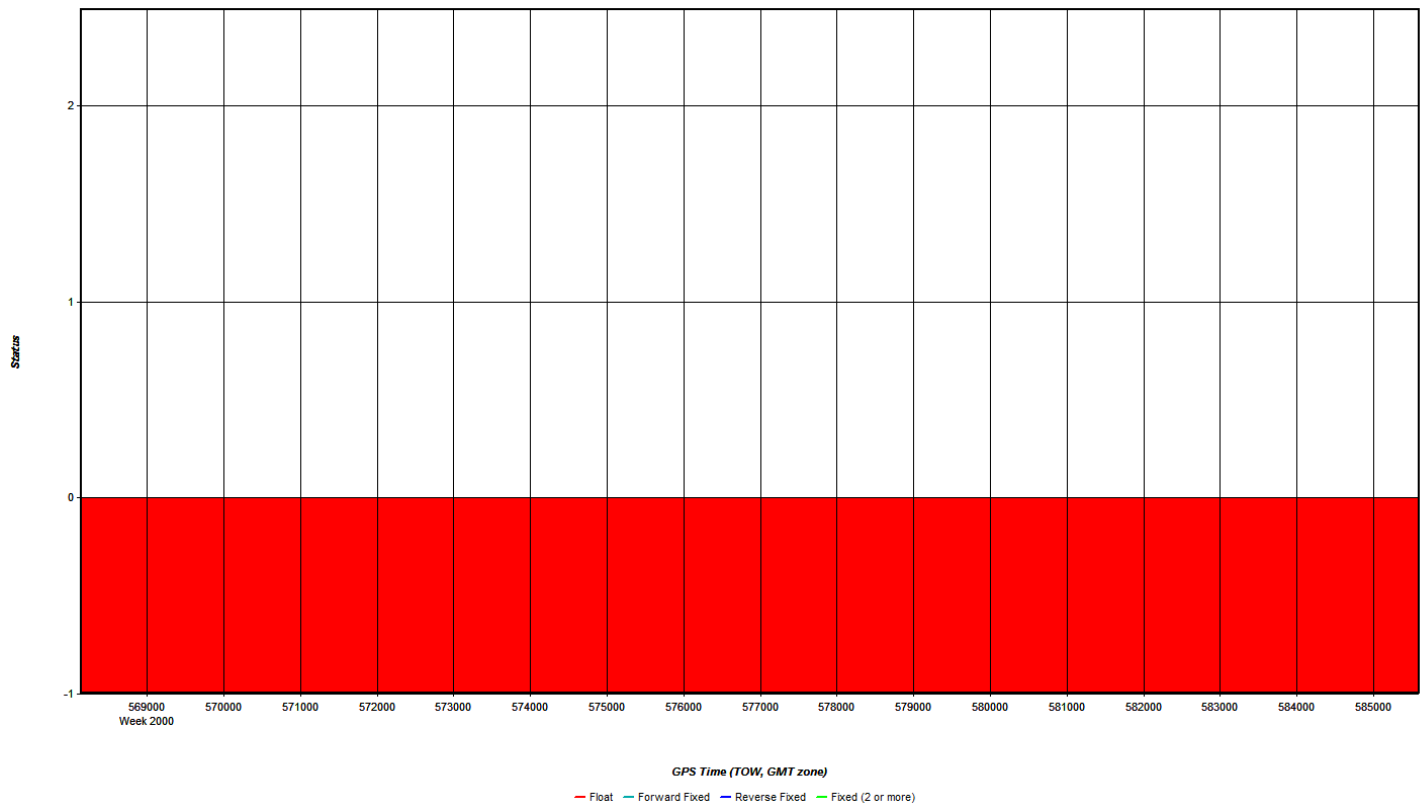
Type	Serial #	Scan Freq	Alt AGL	Alt AMSL	Avg Terr Ht	Max Gndpd	Power	Avg Pt Spacing	PRN#	Mag GB	End GB	Exc GB	Storage Name/ID
LIDAR	ALS70	360	7161	6400	7200	800'	2754Hz	150kbs	2	508	519	018	MM 018

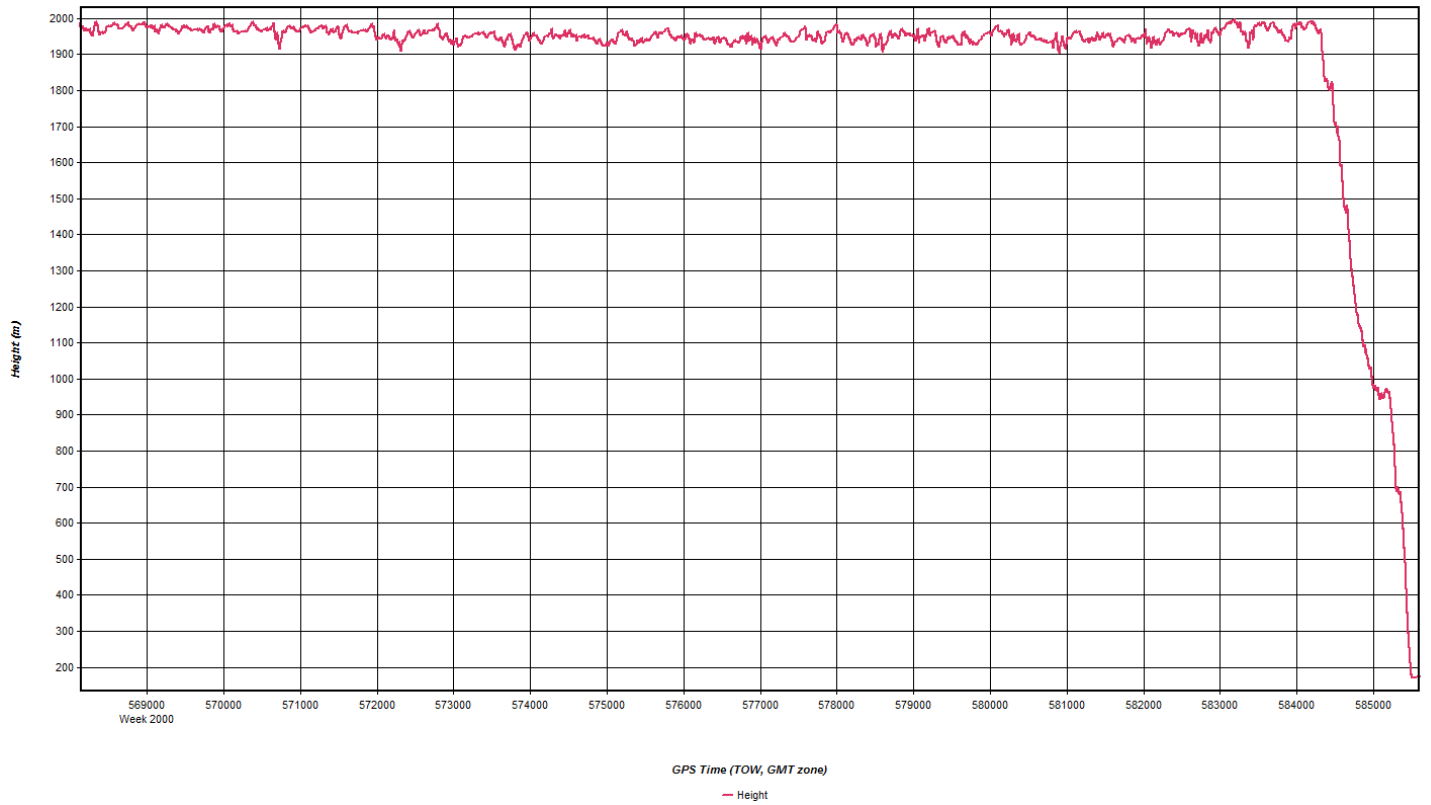
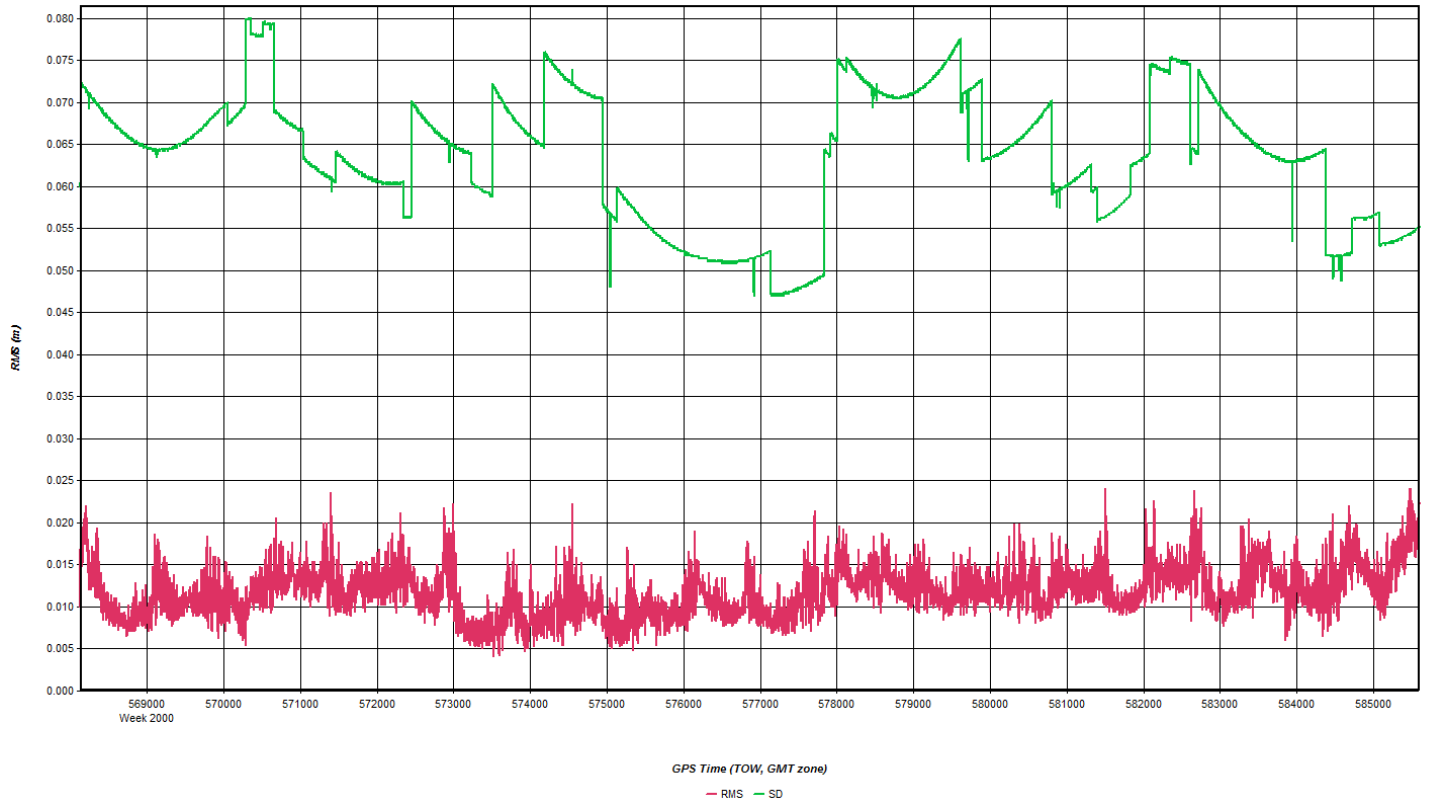
Line #	Hdg	Start (UTC)	End (UTC)	Gd Spd	Altitude	Crab	Turb (ft)	FLIGHT LINE NOTES - visibility, clouds, smoke, partial, etc.
028	S	14:21	14:30	141Kt	7200'	5°	-	Haze layer
027	N	14:48	14:57	150	7200'	3°	-	Opening Turn 200 east of G @ start, 250 east of G @ 4 FNE
026	S	15:04	15:12	152	7200'	2°	+	CROSS TIE
		15:12	15:16					Scattered layer above 350' west of G 10 FNE 260' drift to east 3 FNE lowering cloud layer forcing RTB Closeout Turn RTB; approaching storm ALS error - TDC ran out of buffer message in transit to SBM TDC data fetch time out error due to no mem switch signal on I/O Aux1 connection to TDC

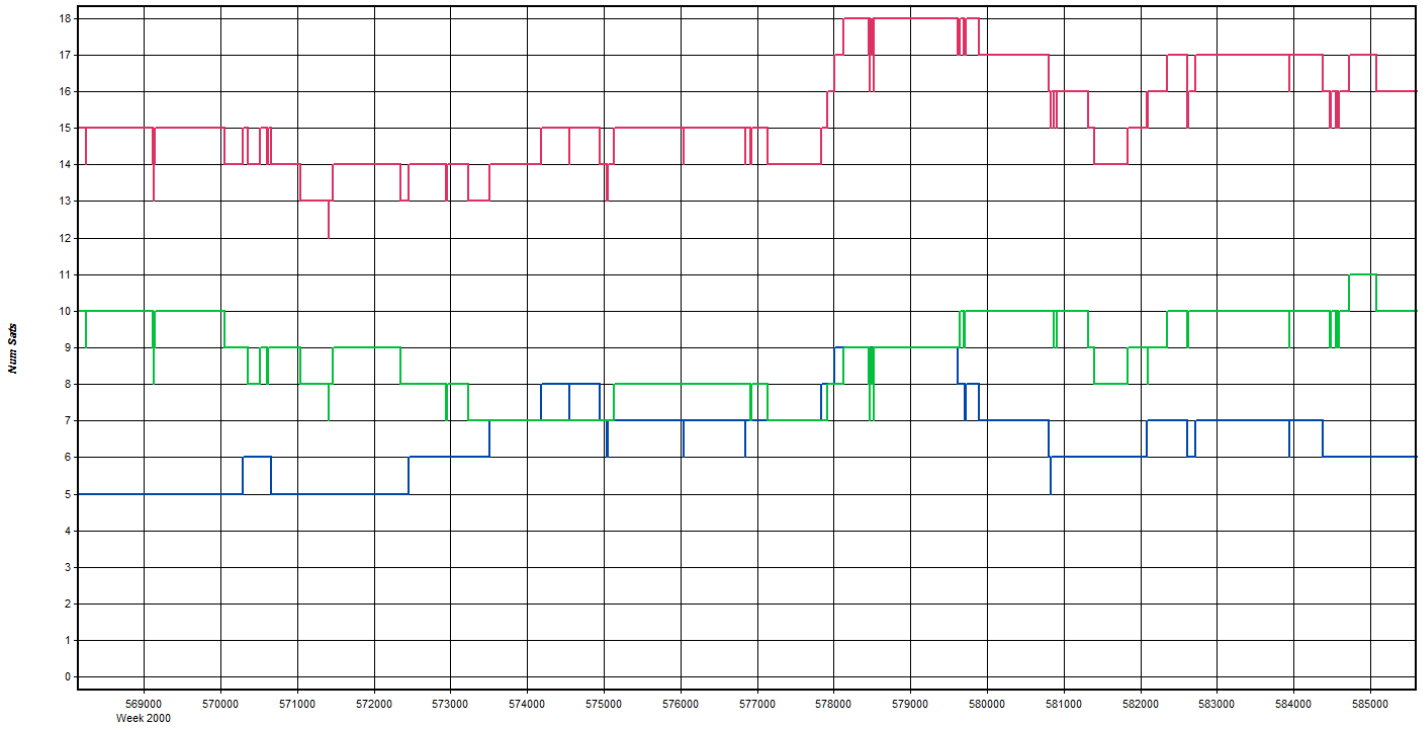
Total Proj Lines: 42 Lines Flown: 17 Lines Remain: 25 Online Time: 1.0 Mob Time: .9 Notes:

May 12, 2018-A (SN7229, C-FQLC)



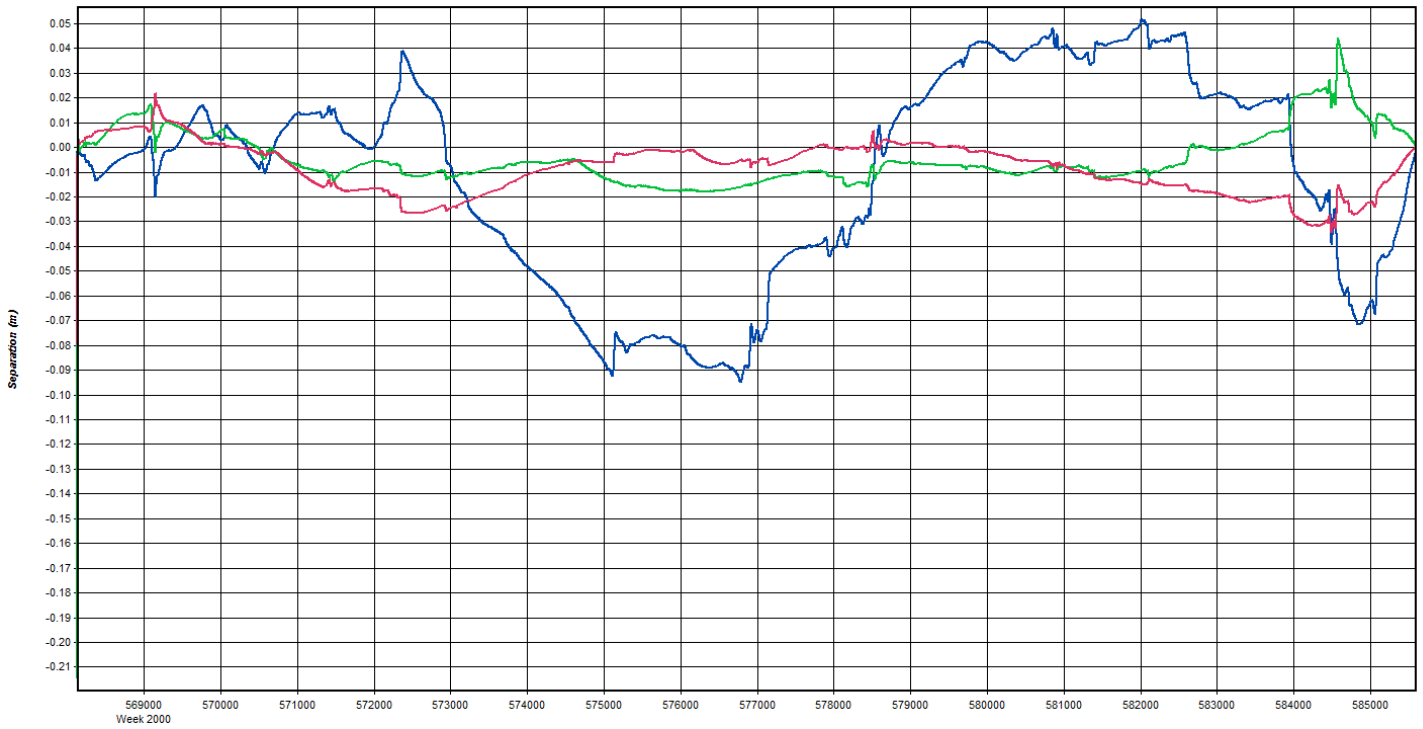






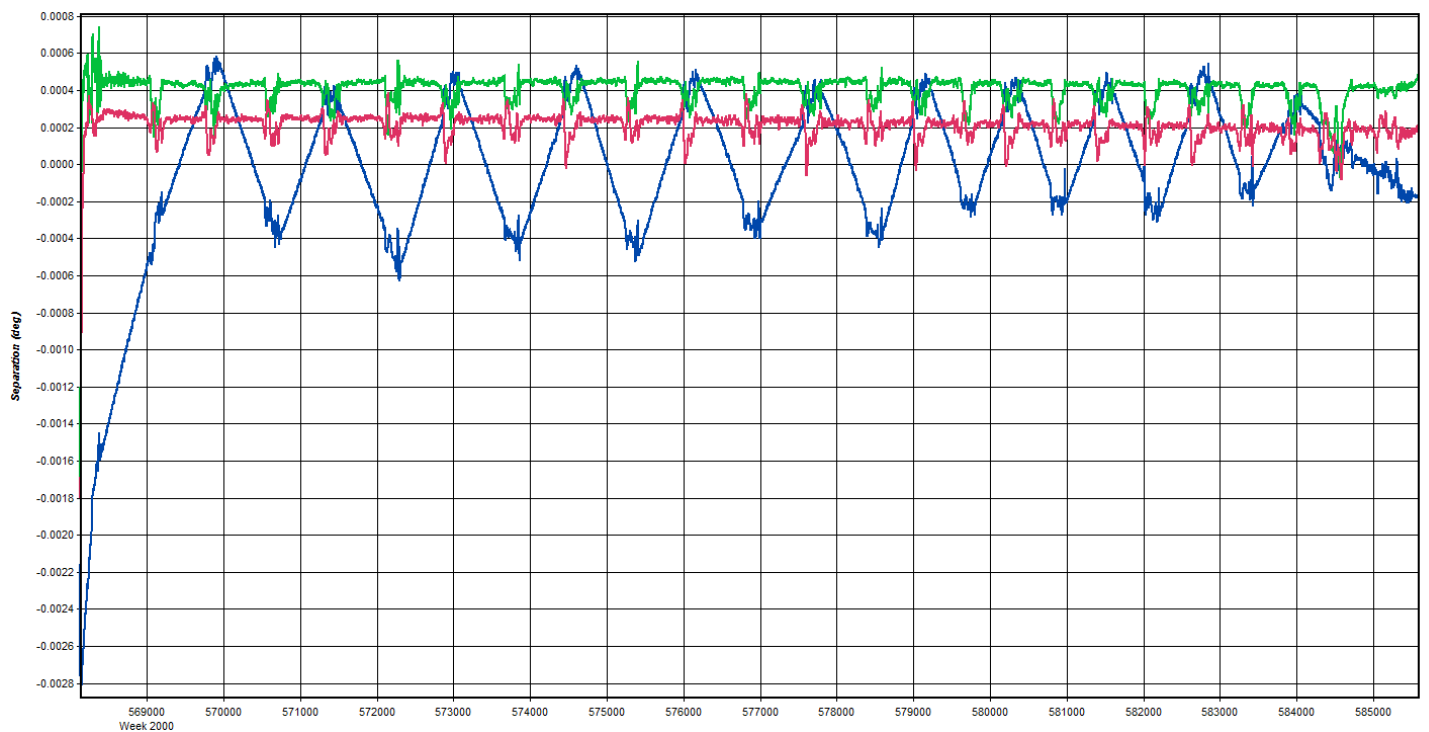
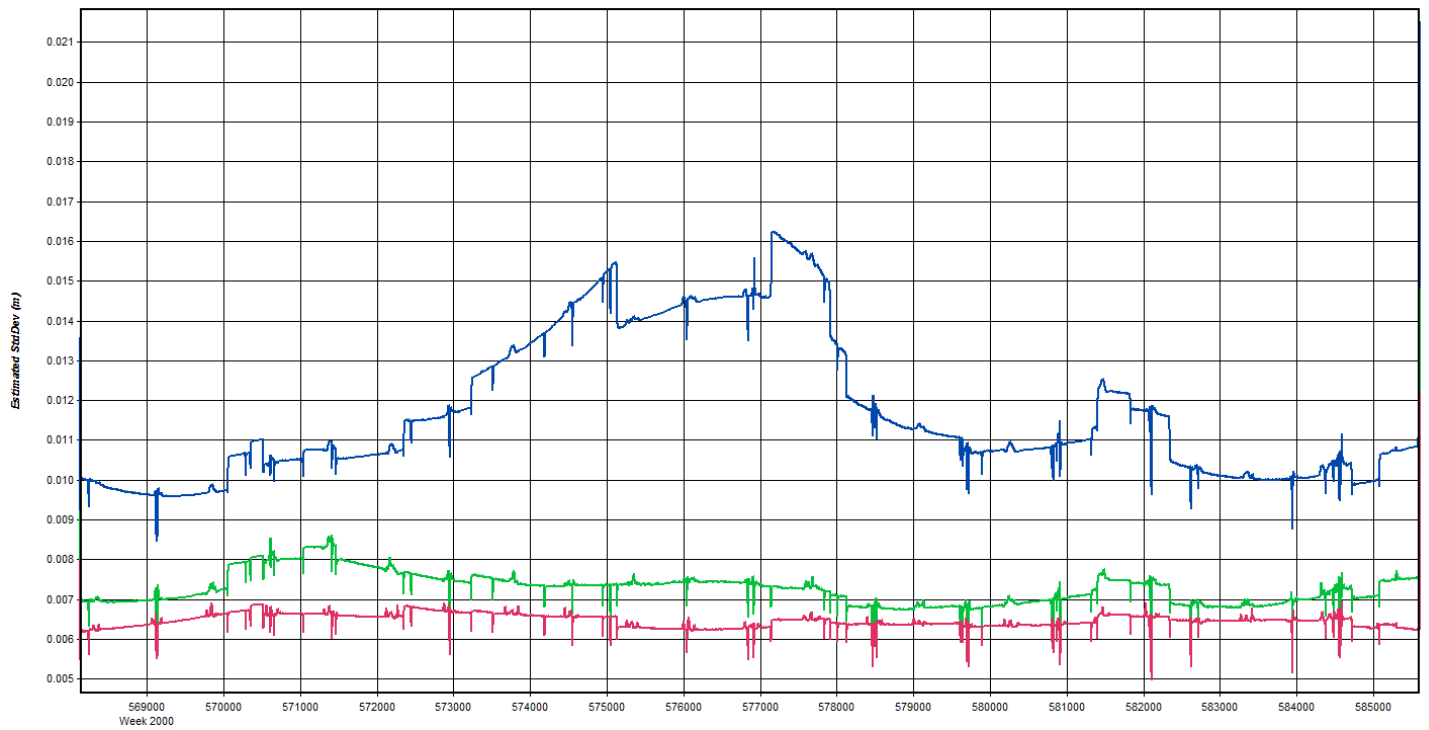
GPS Time (TOW, GMT zone)

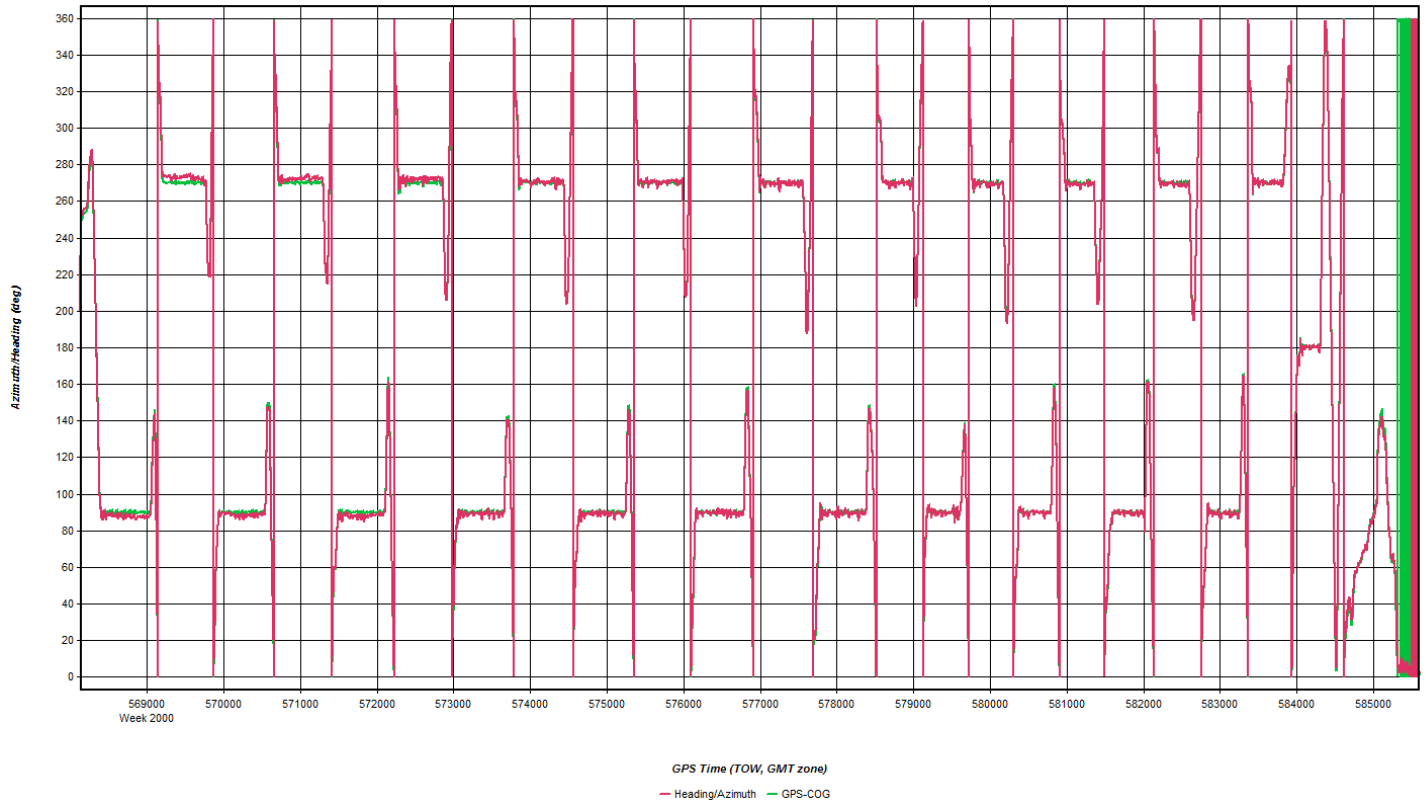
— Num Sats — GPS — GLONASS — BeiDou — Galileo — QZSS



GPS Time (TOW, GMT zone)

— East — North — Up





Flight Log

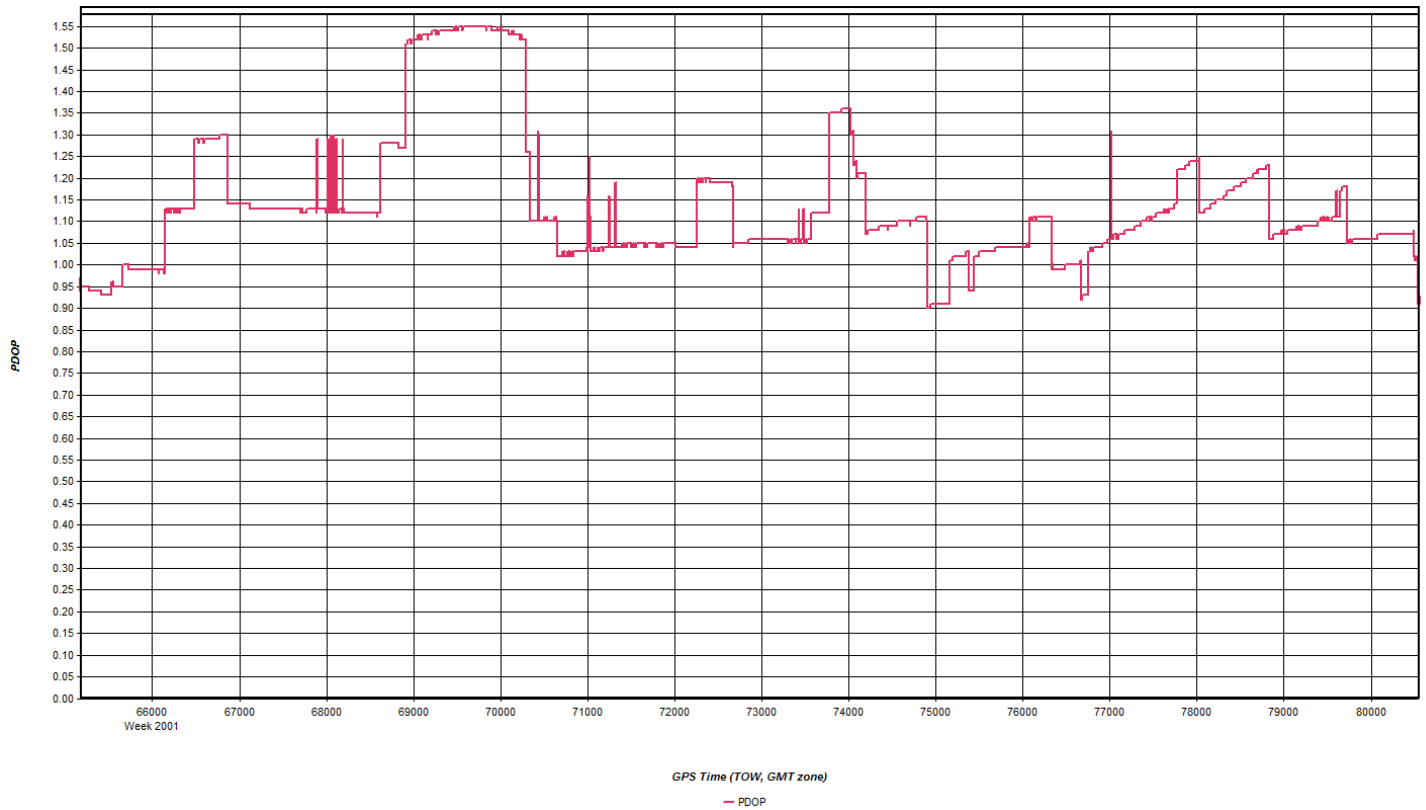
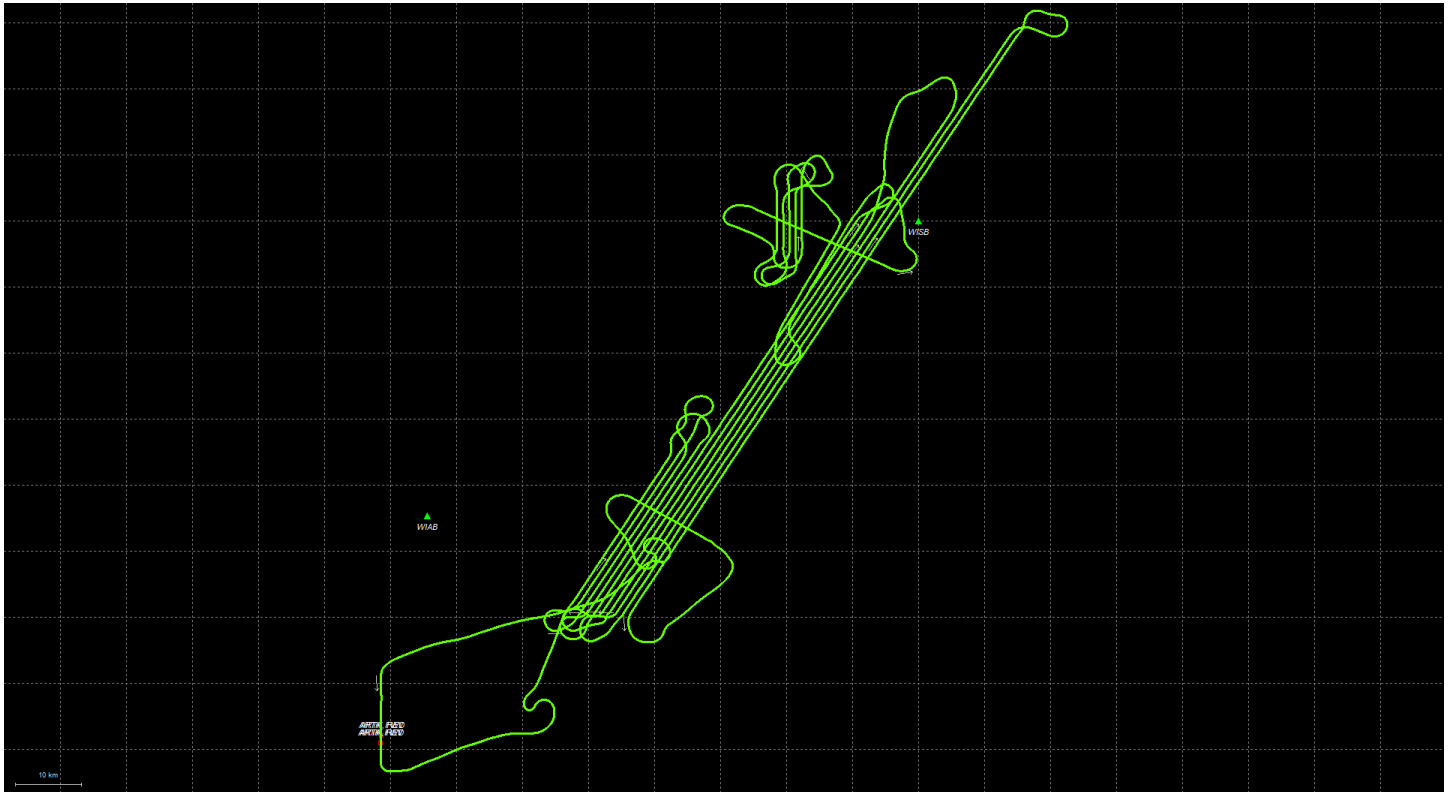
LIDAR & AERIAL PHOTO FLIGHT LOG												
PROJECT NAME		OSI_Outagamie - Flight2		DATE		2018						
SENSOR OPERATOR		A. Brooker		SENSOR(S)		ALS70-HP / Phase One						
PILOT		L. Kim		IMU		Honeywell uIRS						
AIRCRAFT		C-FQLC		ABGPS		IPAS-CUS6						
AIRBASE		GBR – Green Bay, WI		DATA DRIVES		LIDAR 2						
AIRCRAFT BLOCK TIME				MISSION DETAILS				GPS TIME				
Engine On:	13:02	Takeoff:	13:31	AGL Height:	1800m	Pulse Rate:	293Hz	START	END	STATIC ALIGNMENT	START	END
Engine Off:	18:46	Landing:	18:38	Speed:	160kts	Scan Rate:	53Hz	13:54:04	14:03:47	Pre-Mission	13:19	13:24
TOTAL:	5.7 hrs	TOTAL:	5.1 hrs	Laser Power:	100%	FOV:	400	14:06:54	14:15:46	Post Mission	18:19	18:24
FLIGHT LINE #	SET HISTO	DIRECTION	LIDAR File Name	START	END	COMMENTS		"S" TURN				
045		094	135404	13:54:04	14:03:47	C						
044		274	140654	14:06:54	14:15:46	C						
043		094	141913	14:19:13	14:28:40	C						
042		274	143212	14:32:12	14:41:15	C						
041		094	144508	14:45:08	14:54:46	C						
040		274	145816	14:58:16	15:07:17	C						
039		094	151104	15:11:04	15:20:40	C						
038		274	152435	15:24:35	15:33:35	C						
037		094	153722	15:37:22	15:46:55	C						
036		274	155027	15:50:27	15:59:26	C						
035		094	160306	16:03:06	16:12:37	C						
034		274	161639	16:16:39	16:25:36	C						
033		094	162951	16:29:51	16:39:29	C						
032		274	164328	16:43:28	16:49:28	PL						
031		094	165337	16:53:37	16:59:58	PL						
030		274	170311	17:03:11	17:09:10	PL						
029		094	171309	17:13:09	17:19:29	PL						
028		274	172252	17:22:52	17:28:50	PL						
027		094	173320	17:33:20	17:39:40	PL						
026		274	174337	17:43:37	17:49:39	PL						
025		094	175416	17:54:16	18:00:37	PL						
024		274	180400	18:04:00	18:10:00	PL						
CL		184	181428	18:14:28	18:18:01	PL						

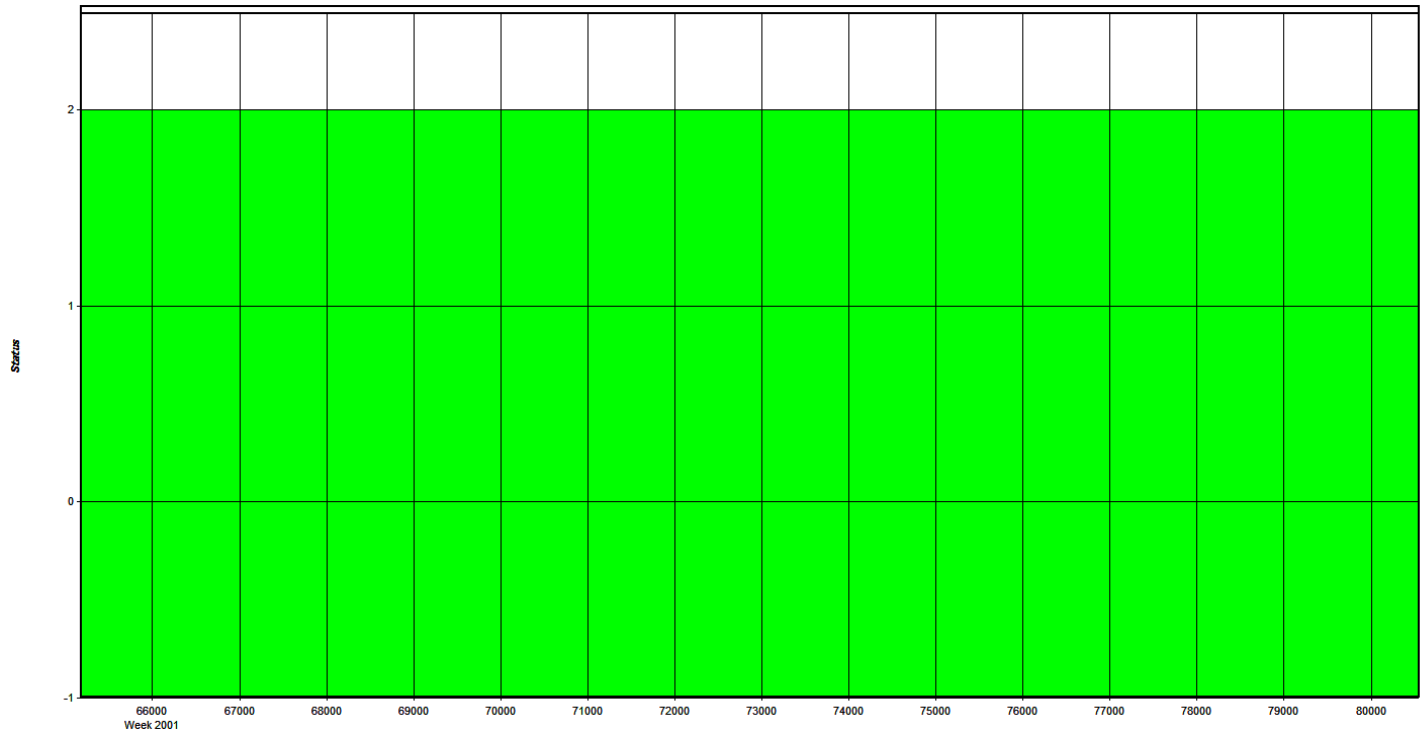
SUN ANGLE
@Start:
@End:
@Peak:

ADDITIONAL NOTES: Sunny, Light Haze, Clouds moving in from Southwest
 PDP 1.1: 16 Sats
 Ground Static IMU Error enroute to first line @ 13:45, did not lose initialization, did orbit prior to line
 Shortened Lines 032 – 024 due to flooding and high river.

PL = Partial Line

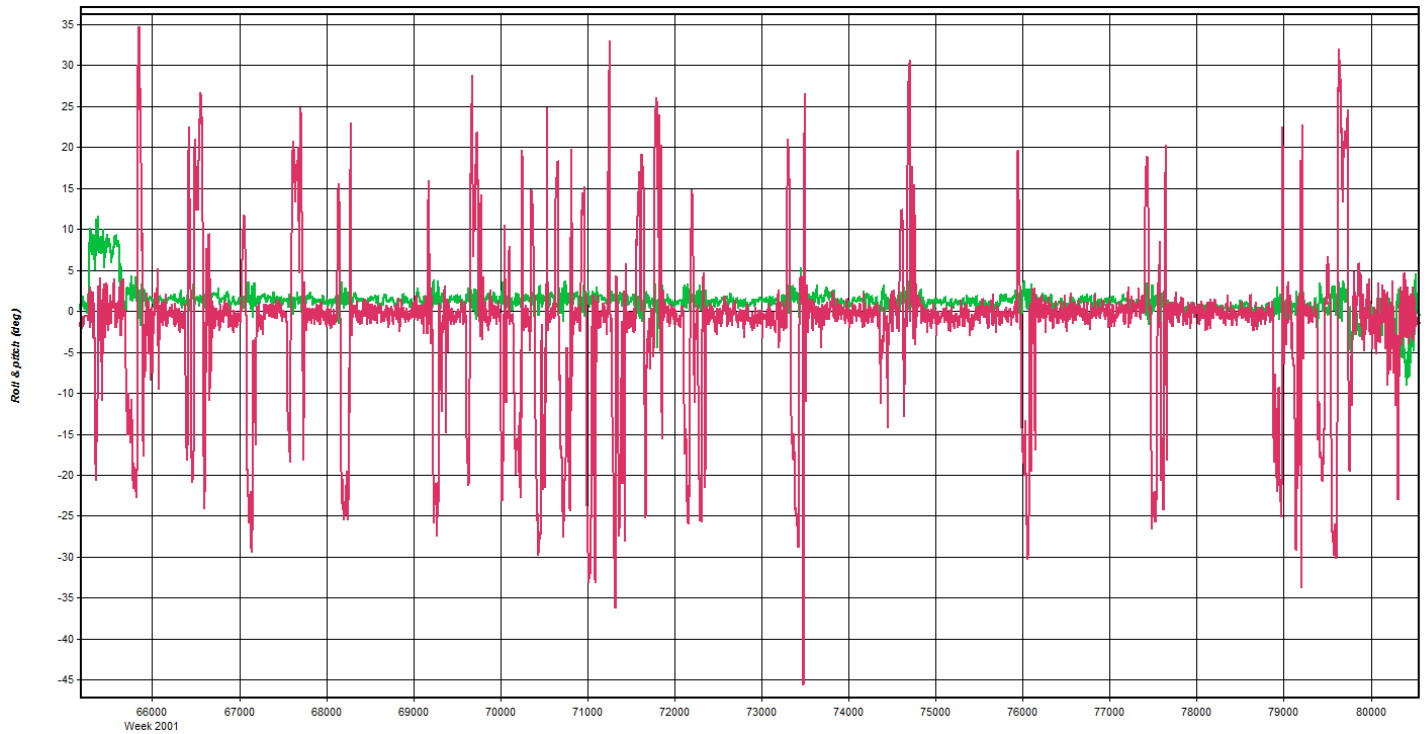
May 13, 2018-A (SN7229, C-FQLC)





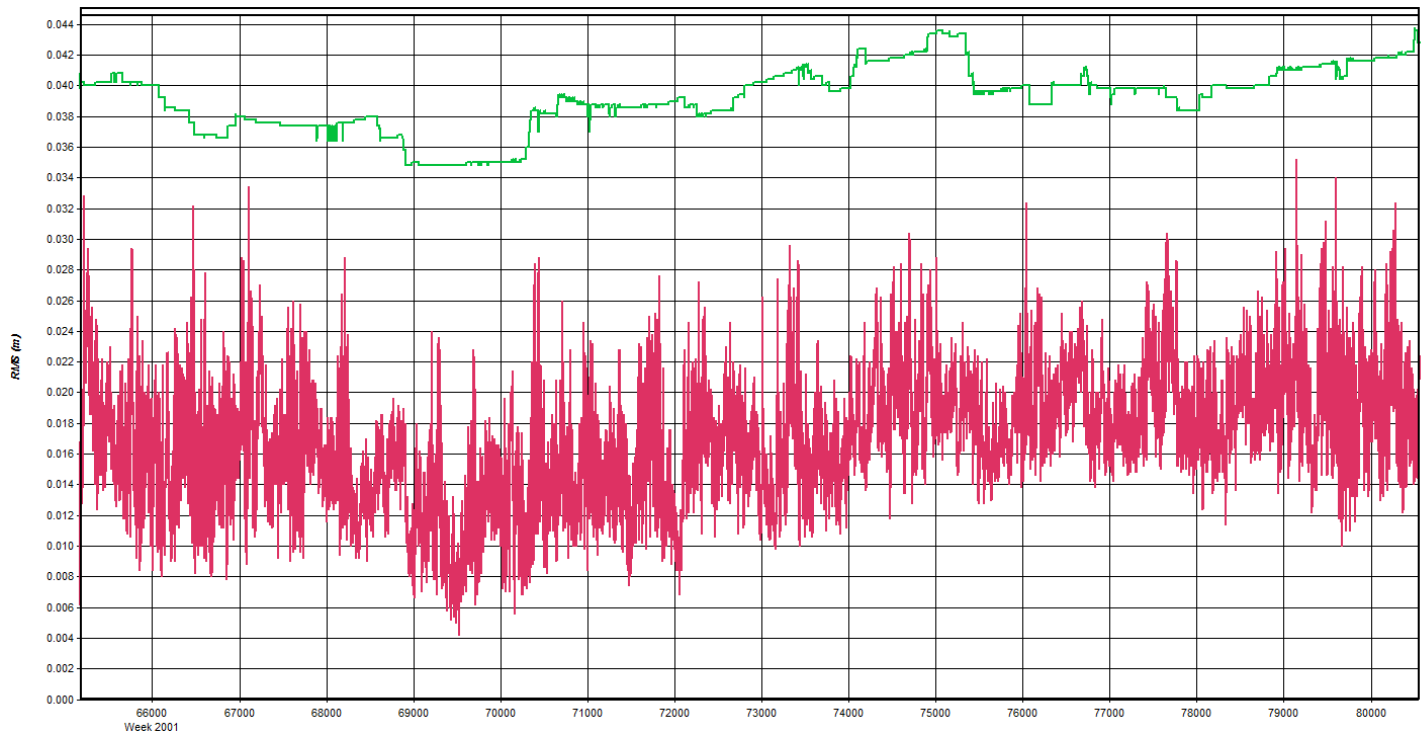
GPS Time (TOW, GMT zone)

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

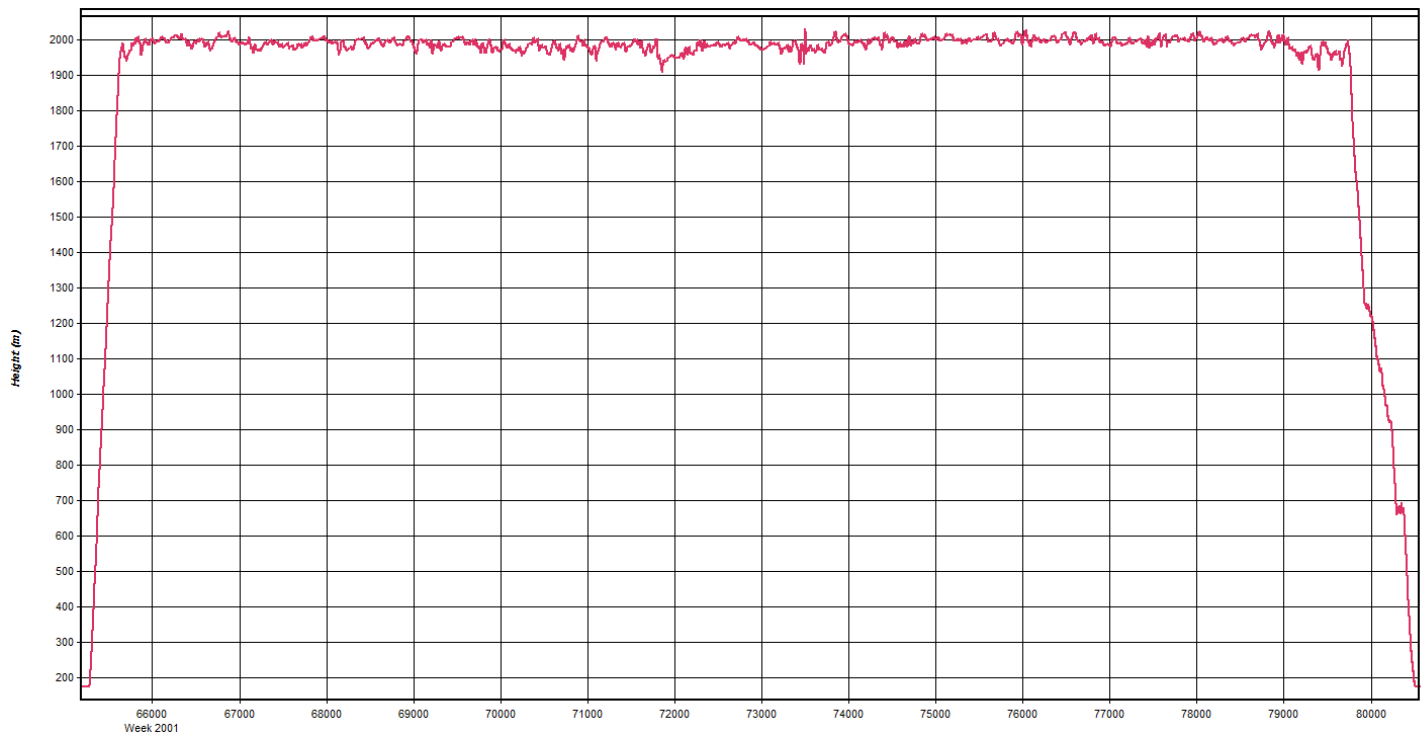


GPS Time (TOW, GMT zone)

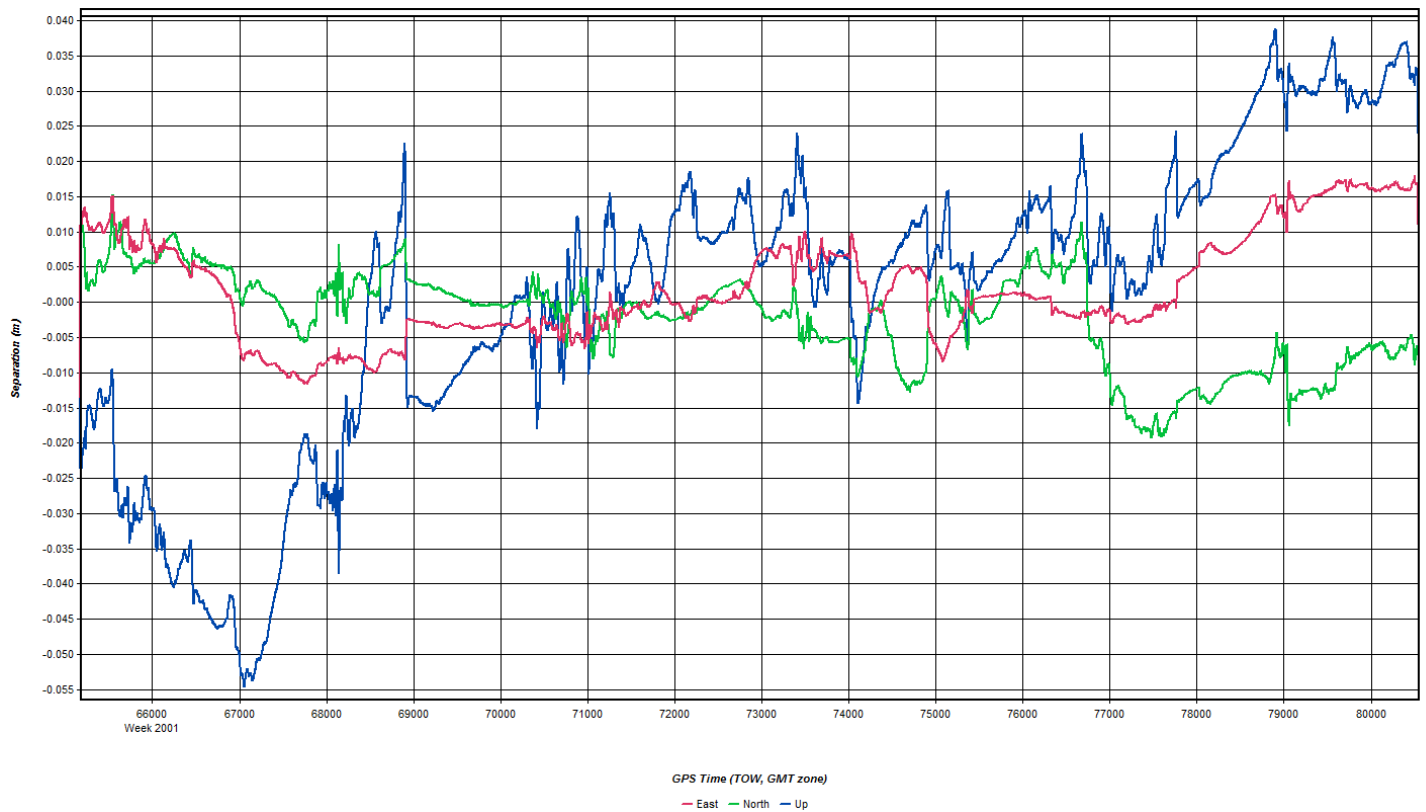
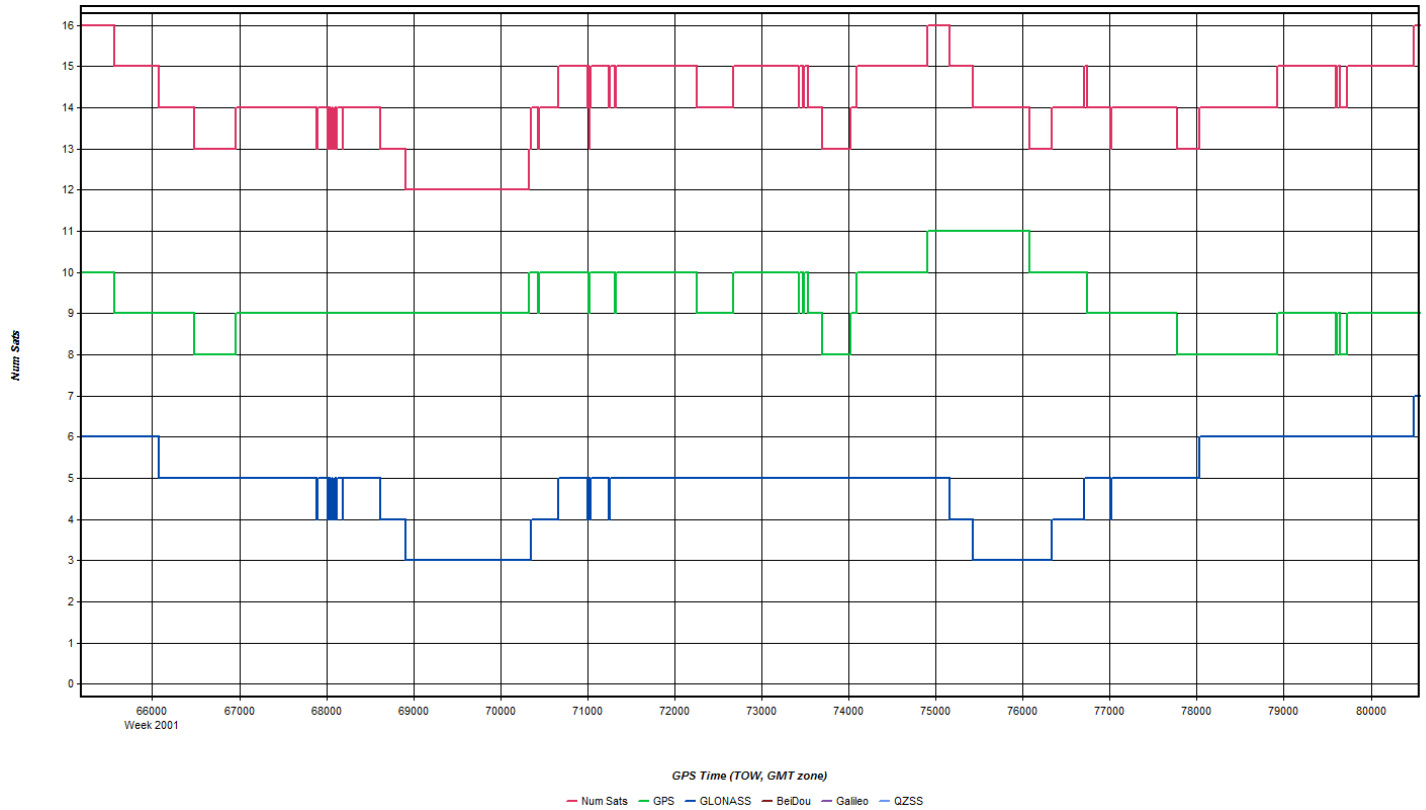
— Roll — Pitch

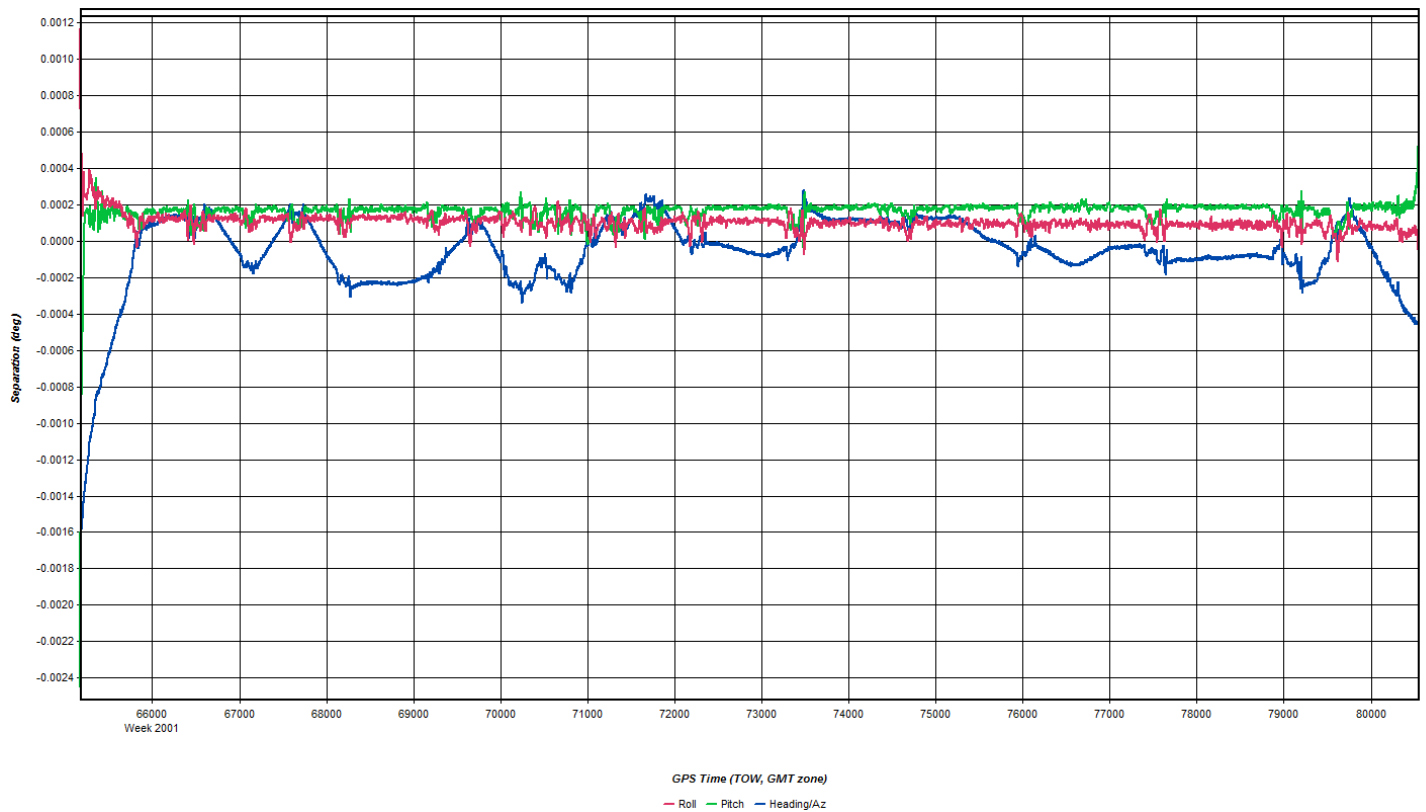
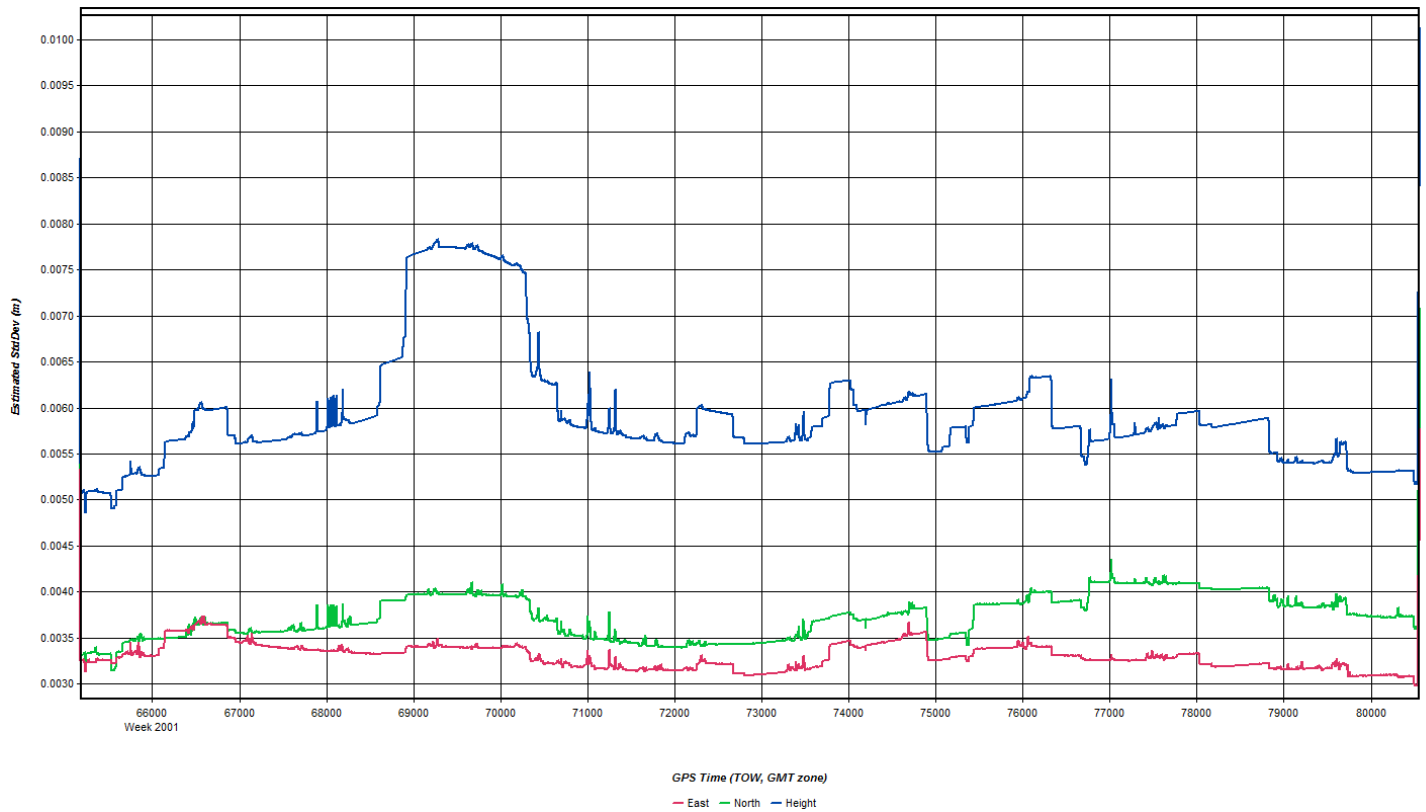


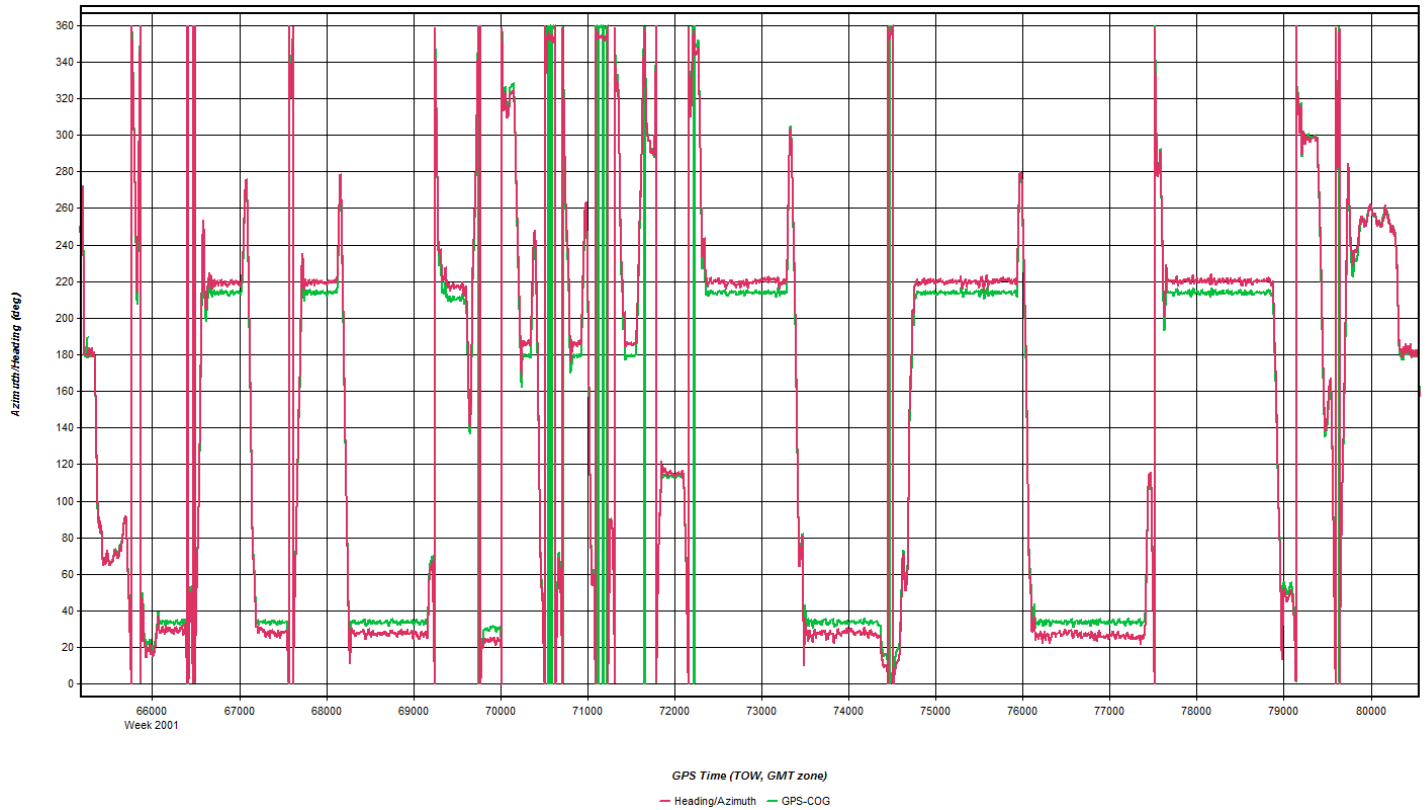
GPS Time (TOW, GMT zone)
— RMS — SD



GPS Time (TOW, GMT zone)
— Height







Master Remote

Base Station
 2: WIAB Name: WIAB Disabled
 File: E:\Proc\32963_WI_3_Co\Atlas_Geomatics_Recvd_5-21-18\QSI_Do

Coordinates
 Latitude: North 44 47 27.29874 Coord. options
 Longitude: West 88 02 42.18794 Save to Favorites
 Ellipsoidal height: 167.060 m
 Datum: WGS84 Proc Datum: WGS84
 Epoch: year

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

Coordinate/Antenna Settings ? X

Master Remote


Base Station
1: WISB Name: WISB Disabled
File: E:\Proc\32963_WI_3_Co\Atlis_Geomatics_Recvd_5-21-18\QSI_Do

Coordinates
Latitude: North 45 11 21.63895 Coord. options
Longitude: West 87 06 24.79895 Save to Favorites
Ellipsoidal height: 163.653 m
Datum: WGS84 Proc Datum: WGS84
Epoch: year

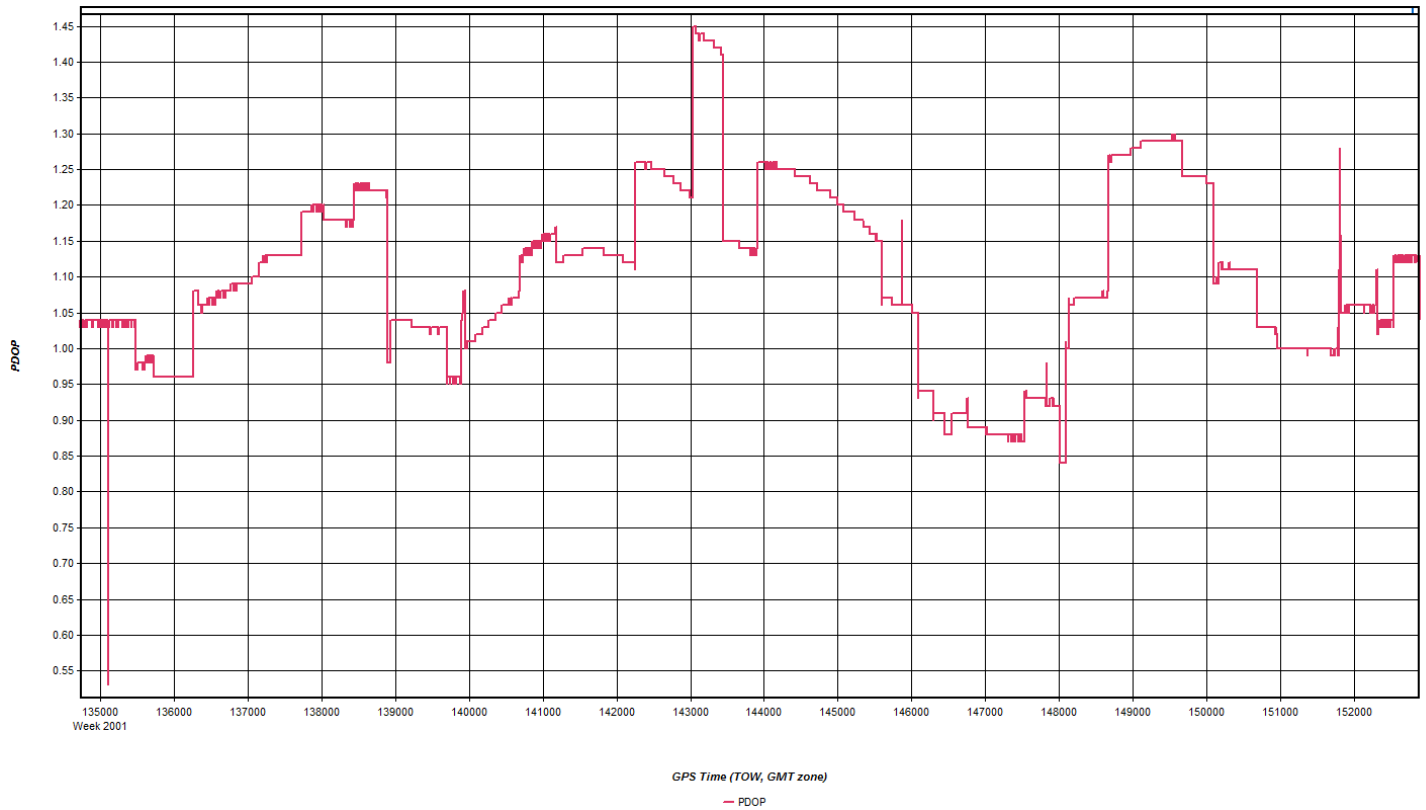
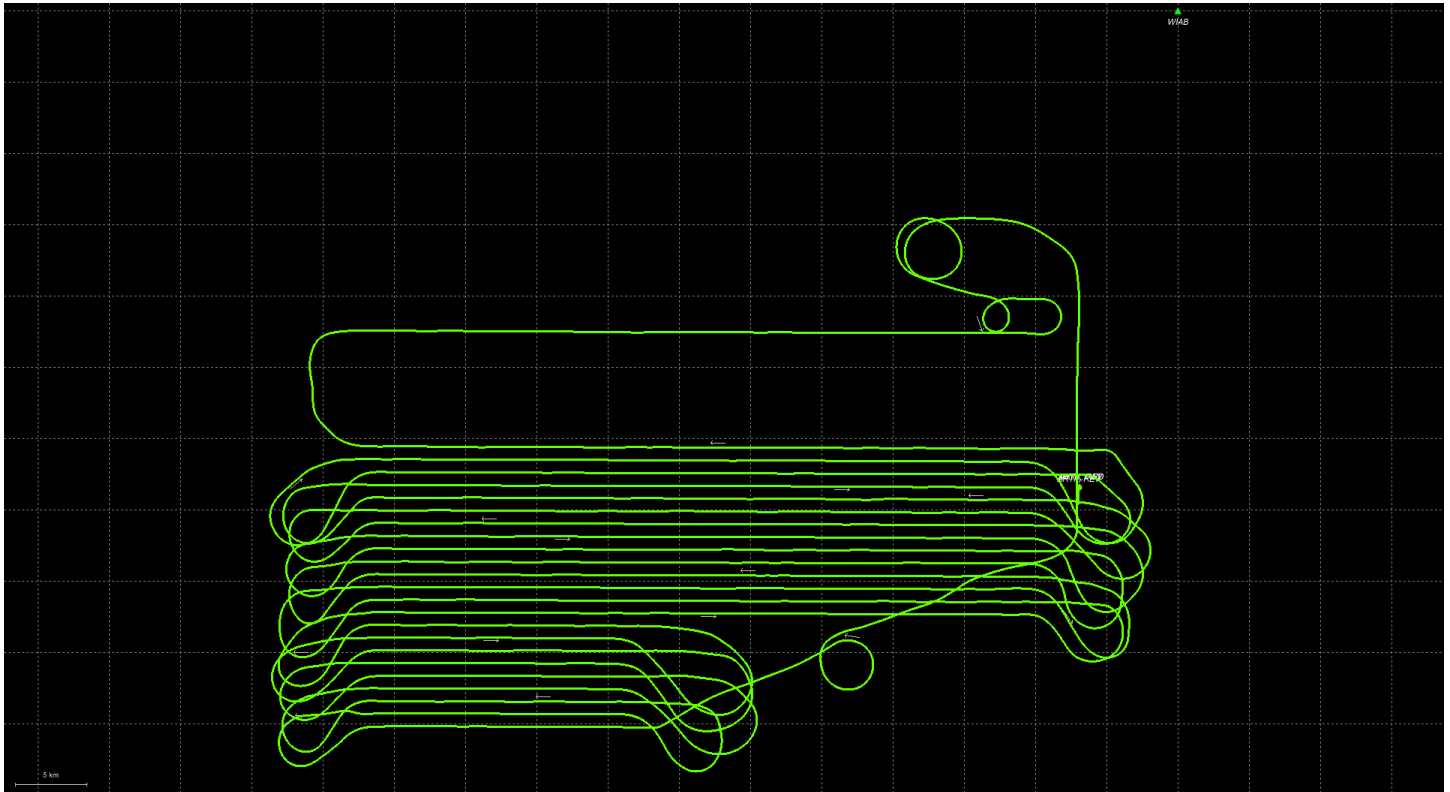
Antenna Height
From station file: TRM55971.00, NONE View STA File
Antenna profile: TRM55971.00 Info
Measured height: 0.000 m
ARP to L1 offset: 0.067 m
Applied height: 0.067 m
Measured to:
 ARP
 L1 Phase Centre
Compute From Slant

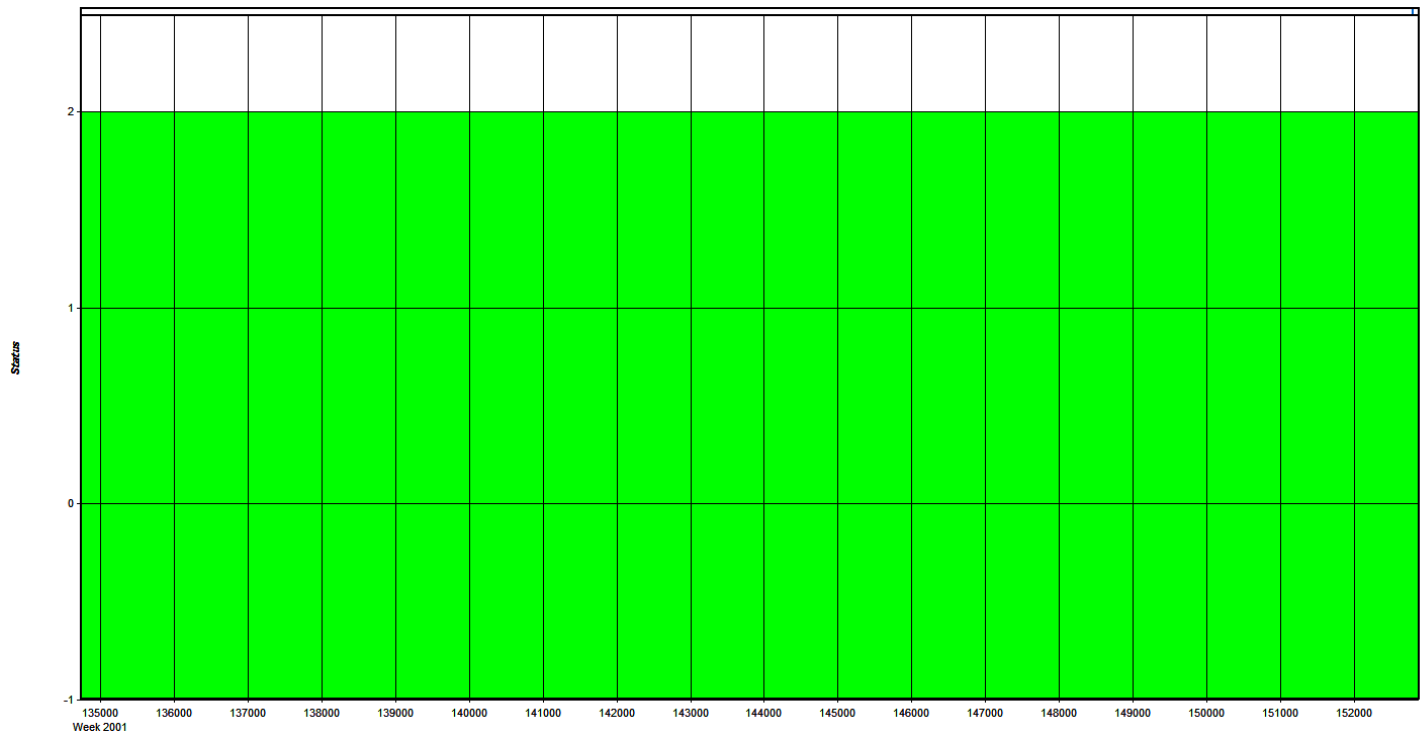
OK Cancel

Flight Log

LIDAR & AERIAL PHOTO FLIGHT LOG																
 LIDAR + IMAGERY + GEOMATICS			PROJECT NAME		OSI_Door_County (Flight1)		DATE		2018/05/13		SENSOR(S)		ALS70-HP / Phase One			
AIRCRAFT BLOCK TIME Engine On: 17:53 Takeoff: 18:07 Engine Off: 22:28 Landing: 22:22 TOTAL: 4.6 hrs			SENSOR OPERATOR		A. Brooker		IMU		Honeywell uIRS		ABGPS		IPAS-CUS6			
AIRCRAFT BLOCK TIME Engine On: 17:53 Takeoff: 18:07 Engine Off: 22:28 Landing: 22:22 TOTAL: 4.6 hrs			PILOT		L. Kim		DATA DRIVES		LIDAR 2		ABGPS		IPAS-CUS6			
AIRCRAFT BLOCK TIME Engine On: 17:53 Takeoff: 18:07 Engine Off: 22:28 Landing: 22:22 TOTAL: 4.6 hrs			AIRBASE		GBR - Green Bay, WI		MISSION DETAILS		AGL Height: 1850m Speed: 160kts Laser Power: 4.3 hrs		Pulse Rate: 269Hz Scan Rate: 53Hz FOV: 400		STATIC ALIGNMENT		GPS TIME	
FLIGHT LINE #	SET HISTO	DIRECTION	LIDAR File Name	START	END	COMMENTS	"S" TURN									
026		038	182141	18:21:41	18:26:01	C										
027		218	183116	18:31:16	18:36:49	C										
028		038	184004	18:40:04	18:45:28	C										
029		218	184923	18:49:23	18:55:01	C										
030		038	185802	18:58:02	19:12:23	C										
037		215	191633	19:16:33	19:09:44	C										
036		035	192319	19:23:19	19:26:26	C										
001		184	193054	19:30:54	19:31:57	C										
002		004	193533	19:35:33	19:36:49	C										
003		184	194014	19:40:14	19:41:43	C										
004		004	194509	19:45:09	19:46:48	C										
005		184	195045	19:50:45	19:52:20	C										
*059 (CL)		118	195735	19:57:35	20:01:20	PL										
031		219	200607	20:06:07	20:21:03	C										
032		039	202446	20:24:46	20:38:49	C										
033		219	204626	20:46:26	21:05:12	C										
034		039	210852	21:08:52	21:29:22	C										
035		219	213413	21:34:13	21:54:15	C										
*058 (CL)		303	220010	22:00:10	22:02:43	PL										
								ADDITIONAL NOTES: Sunny and Clear, some cumulus cloud forming near southern end of AOI near 2100hrs. Did not affect our lines. Started on the west side of the AOI and worked our way East. PDOF 1.1 18 Sats Did a good 'S' turn prior to beginning the first line and an orbit at the end.								

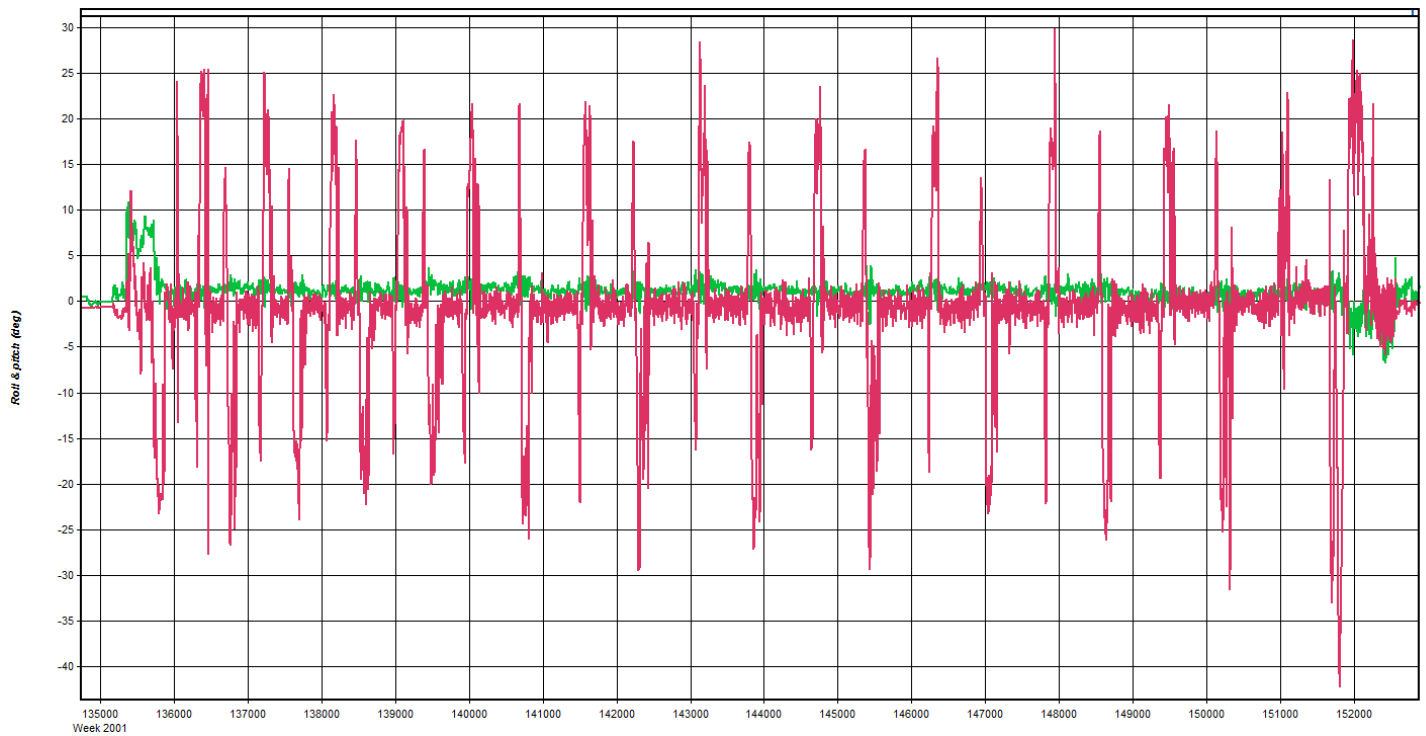
May 14, 2018-A (SN7229, C-FQLC)





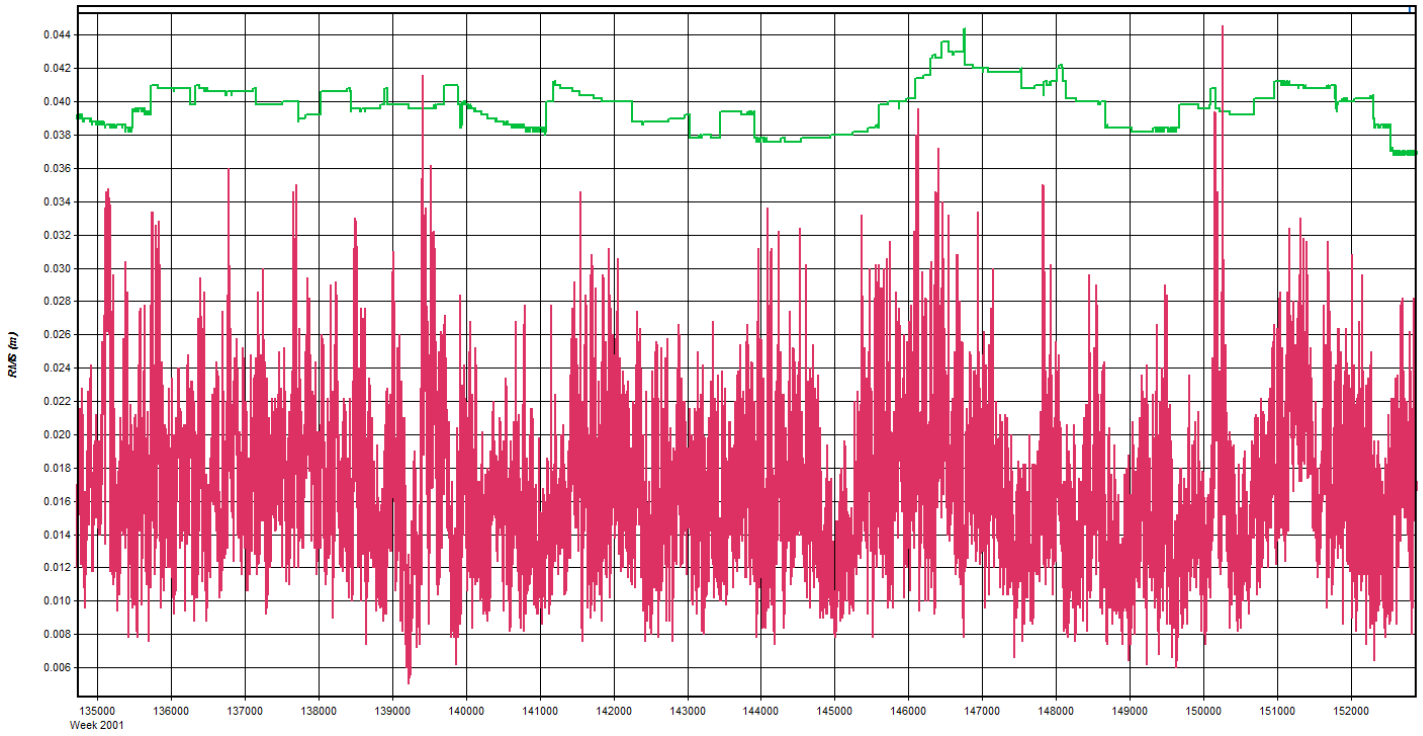
GPS Time (TOW, GMT zone)

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

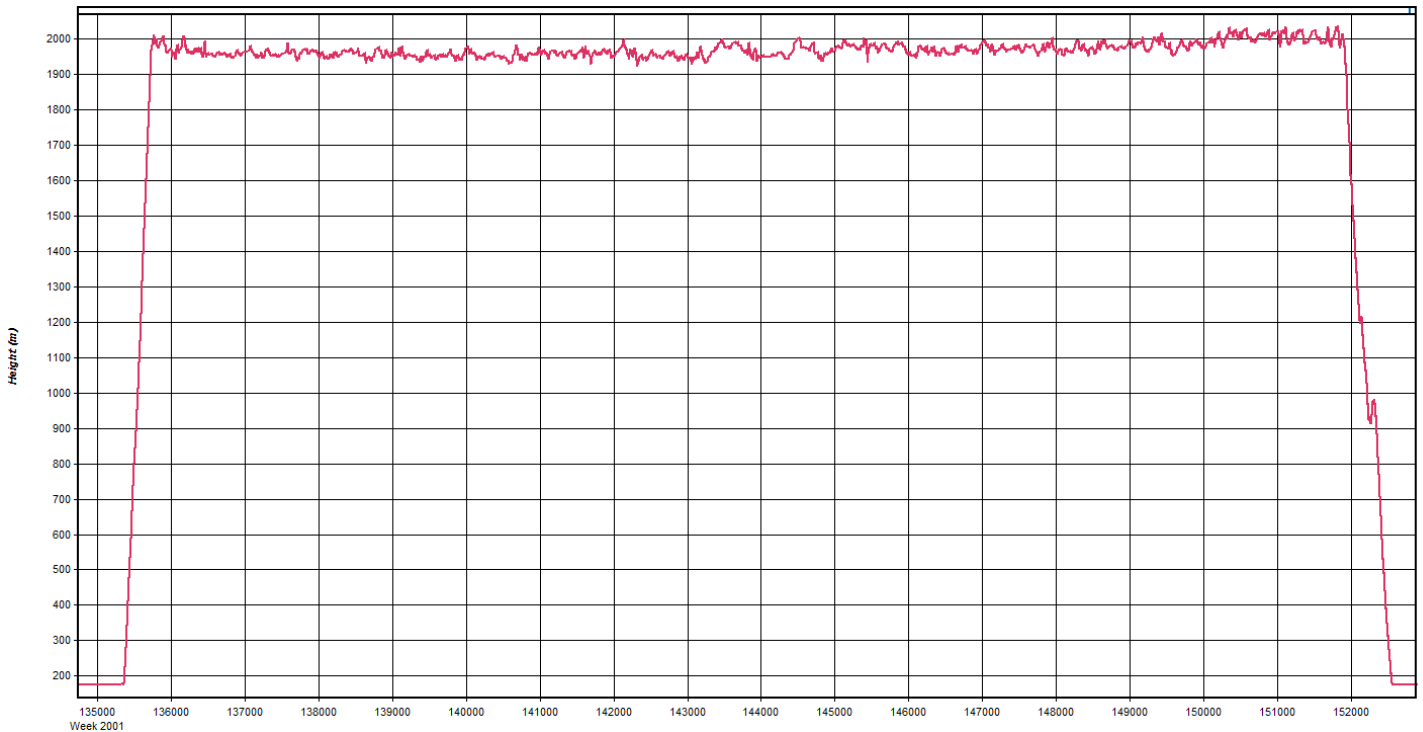


GPS Time (TOW, GMT zone)

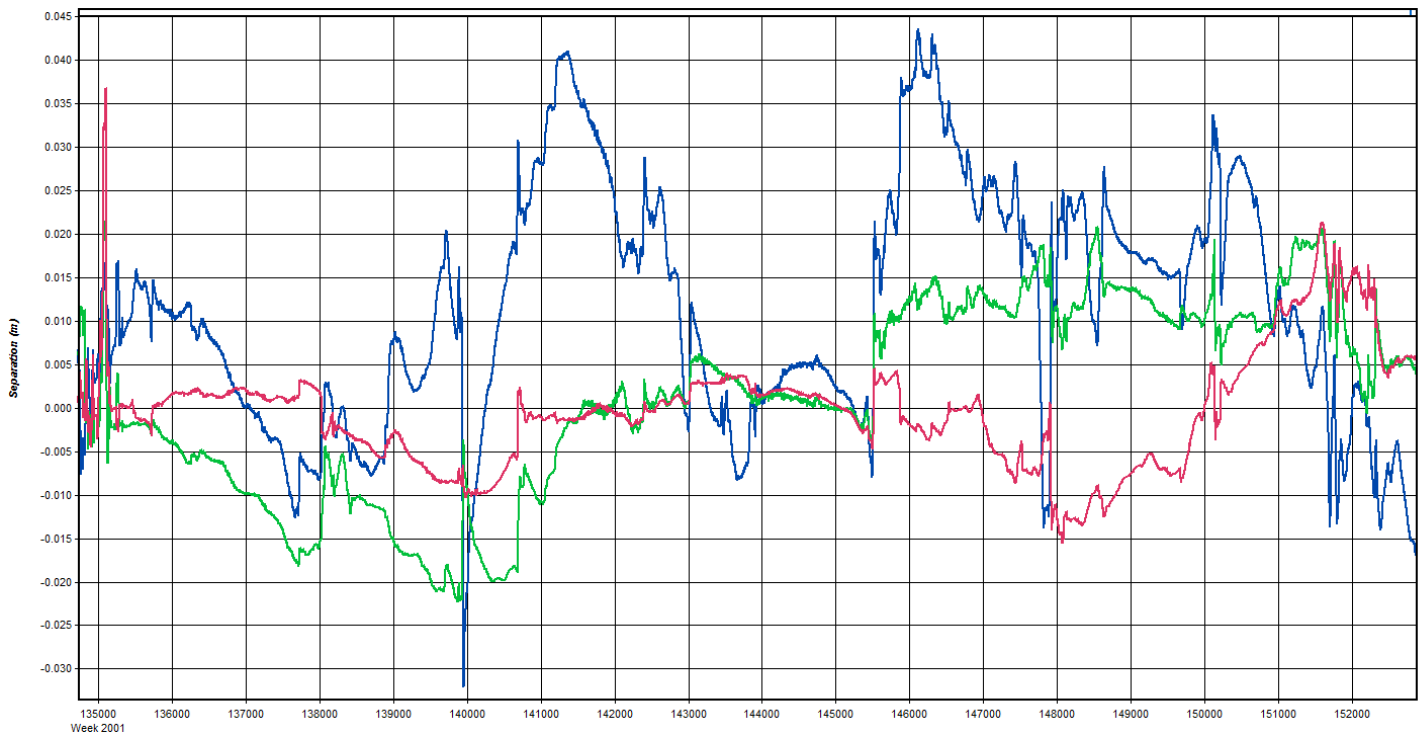
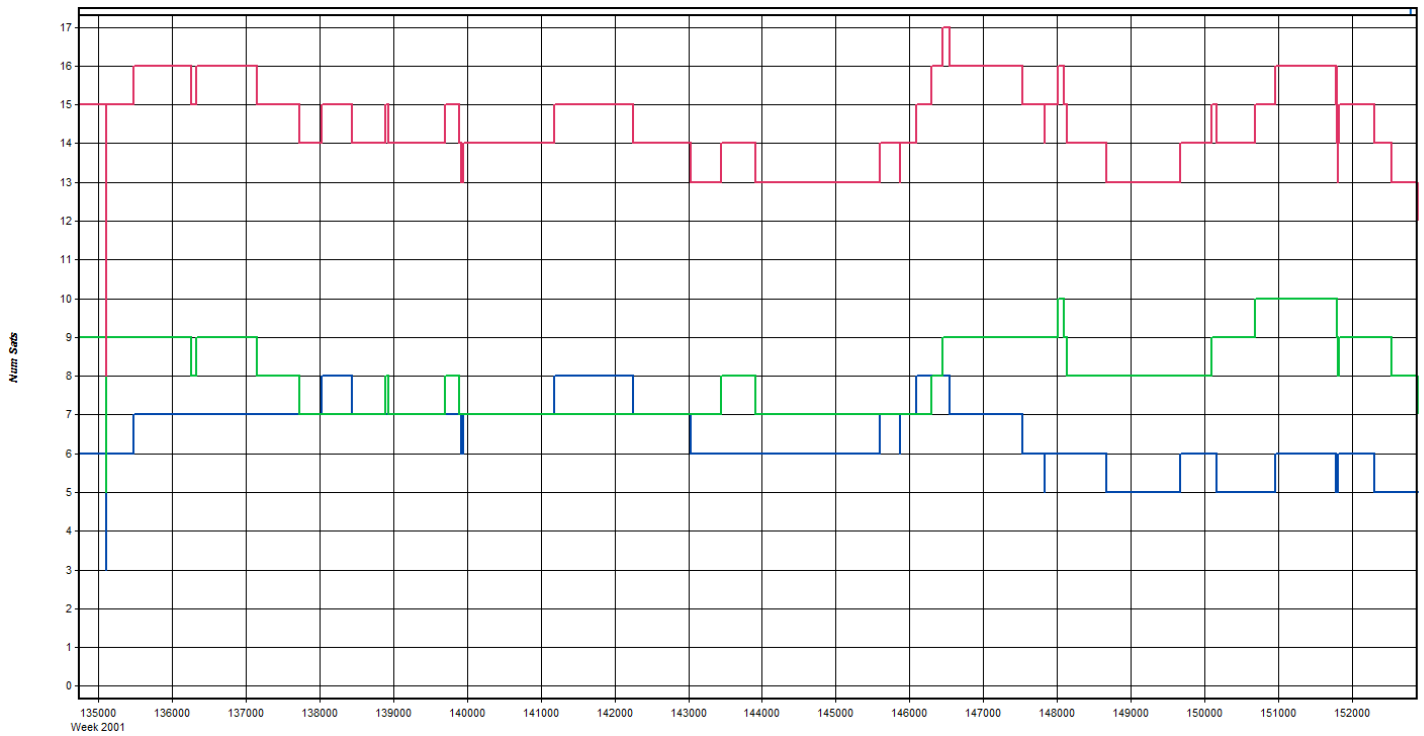
— Roll — Pitch

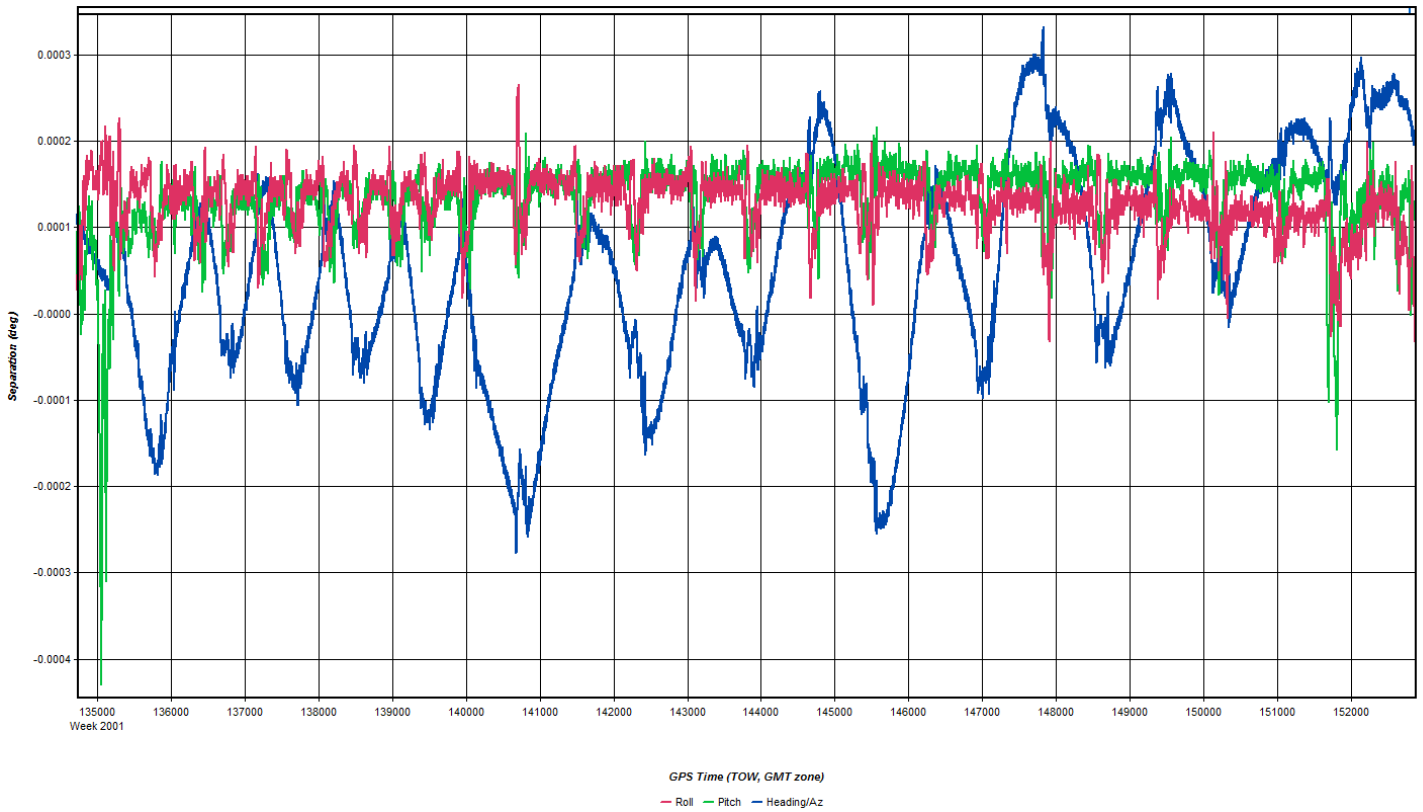
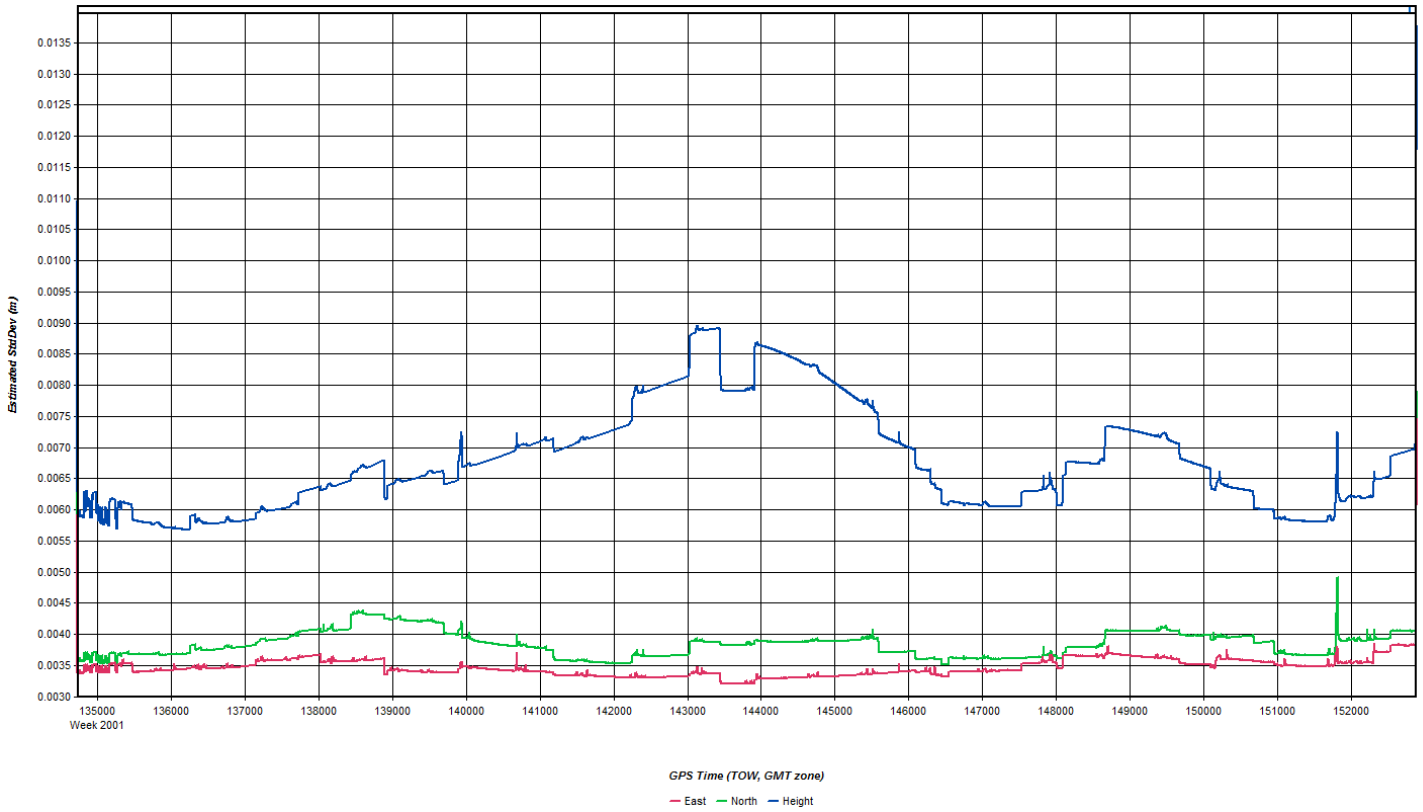


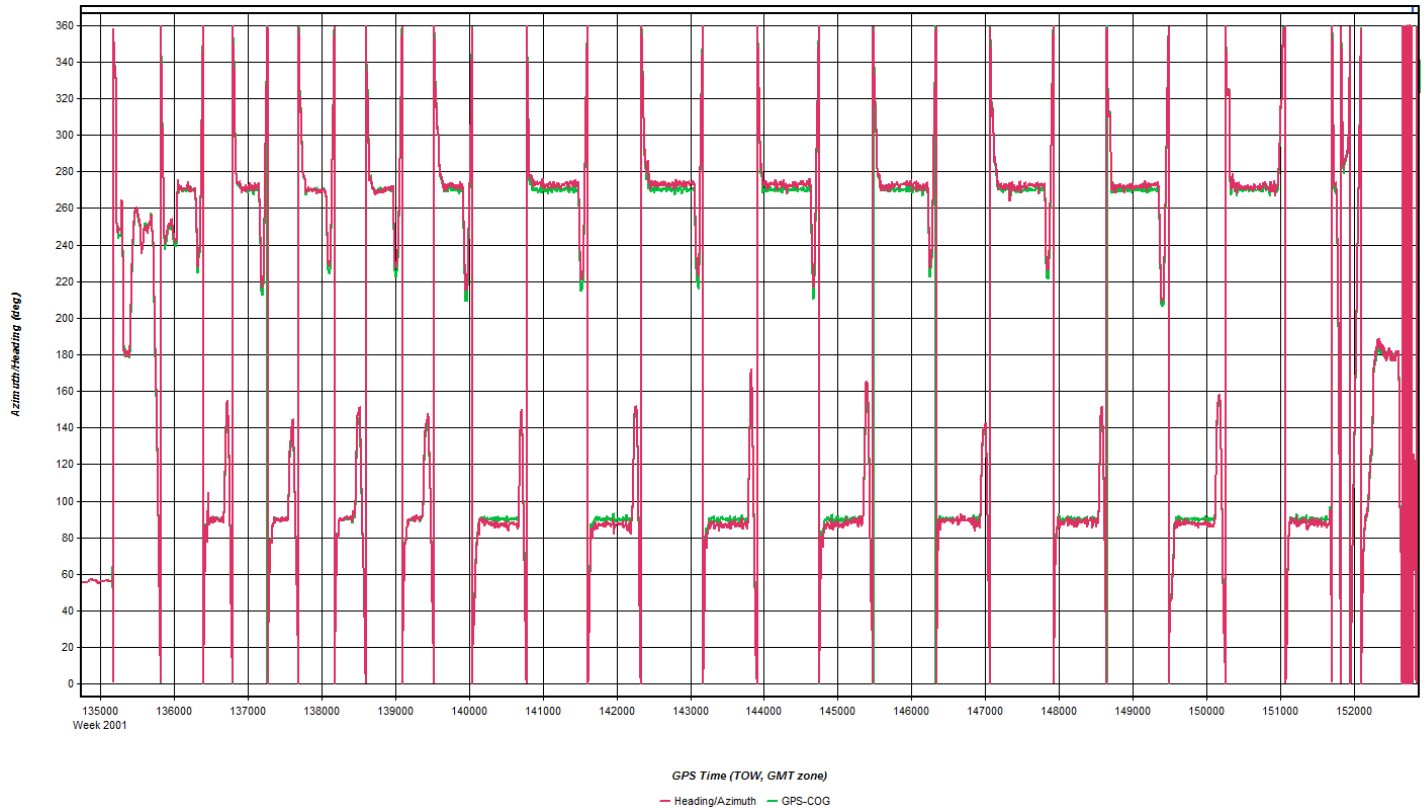
GPS Time (TOW, GMT zone)
— RMS — SD



GPS Time (TOW, GMT zone)
— Height







Coordinate/Antenna Settings ? X

Master Remote

Base Station
 1: WIAB Name: WIAB Disabled
 File: E:\Proc\32963_WI_3_Co\Atlas_Geomatics_Recvd_5-21-18\QSI_Ou

Coordinates
 Latitude: North 44 47 27.29874 Coord. options
 Longitude: West 88 02 42.18794 Save to Favorites
 Ellipsoidal height: 167.060 m
 Datum: WGS84 Proc Datum: WGS84
 Epoch: year

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

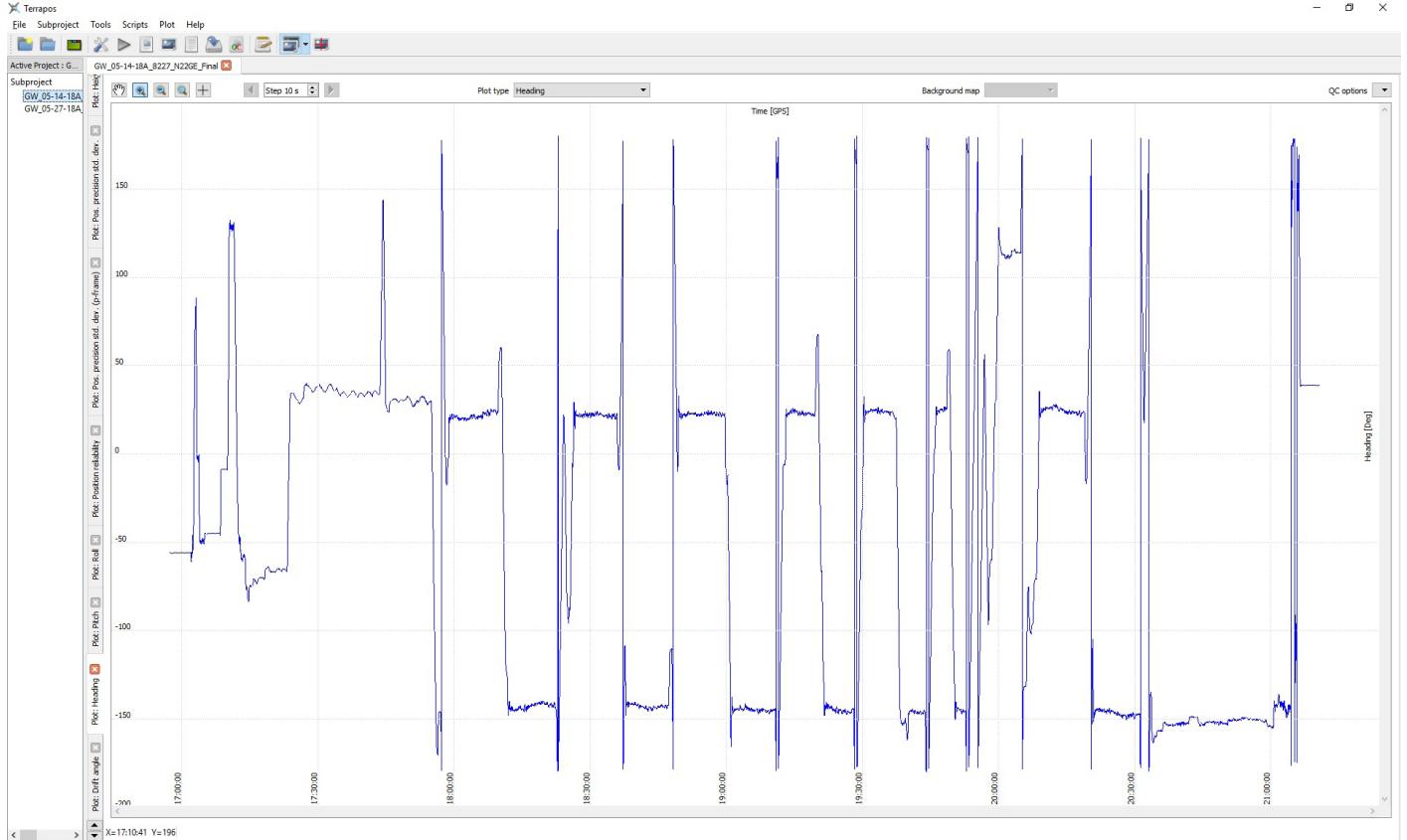
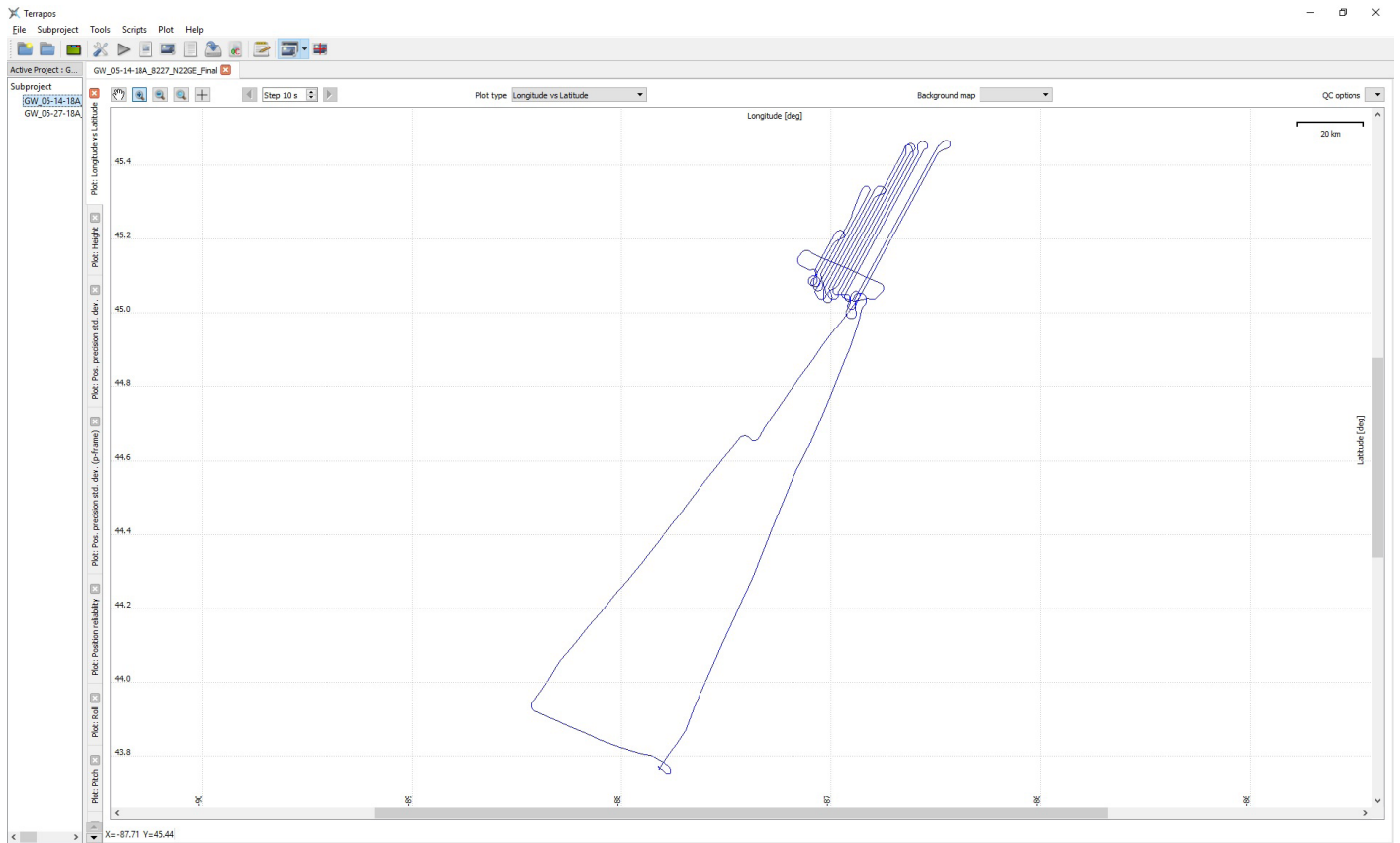
Measured height: 0.000 m Measured to
 ARP
 L1 Phase Centre
 ARP to L1 offset: 0.067 m Compute From Slant
 Applied height: 0.067 m

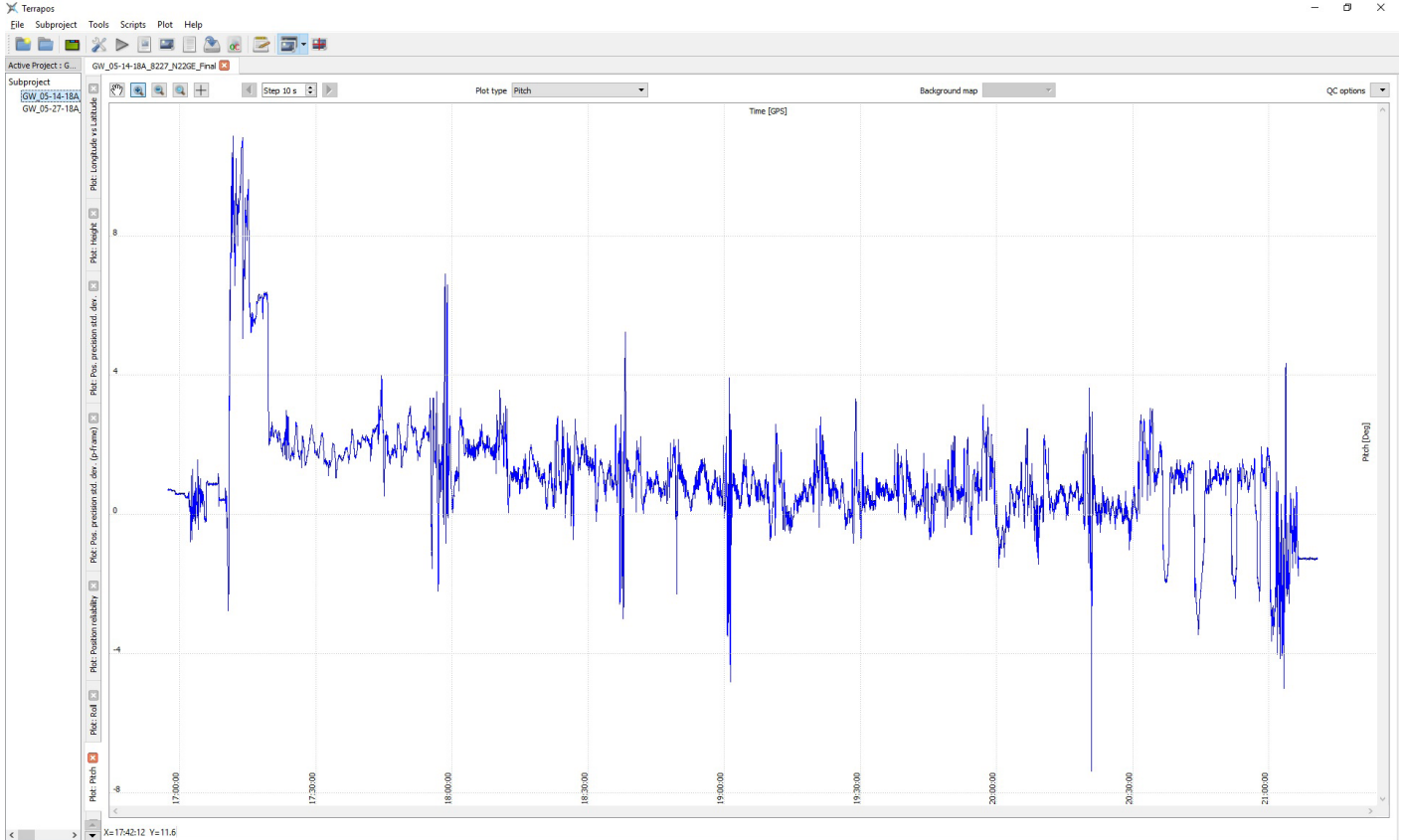
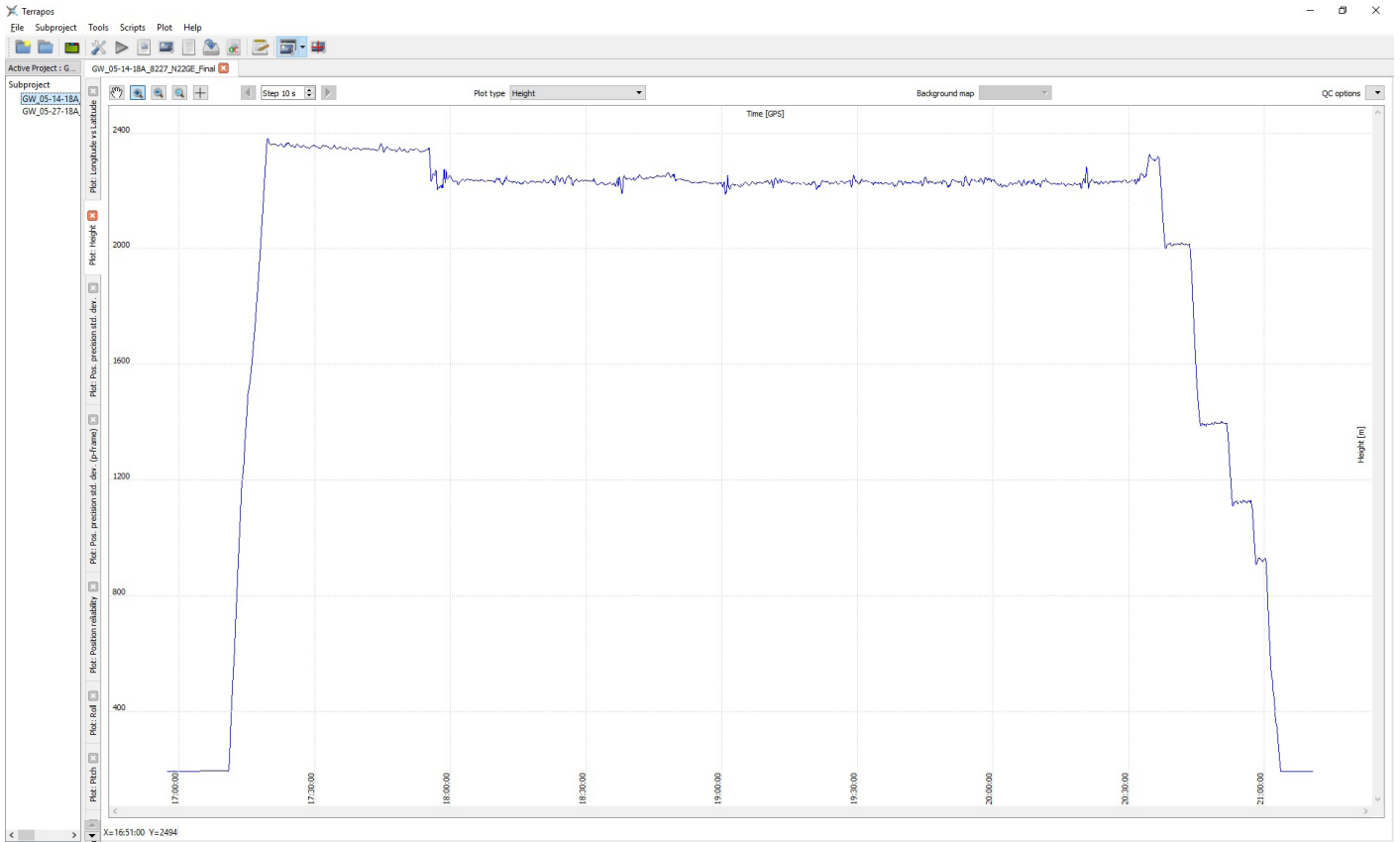
OK Cancel

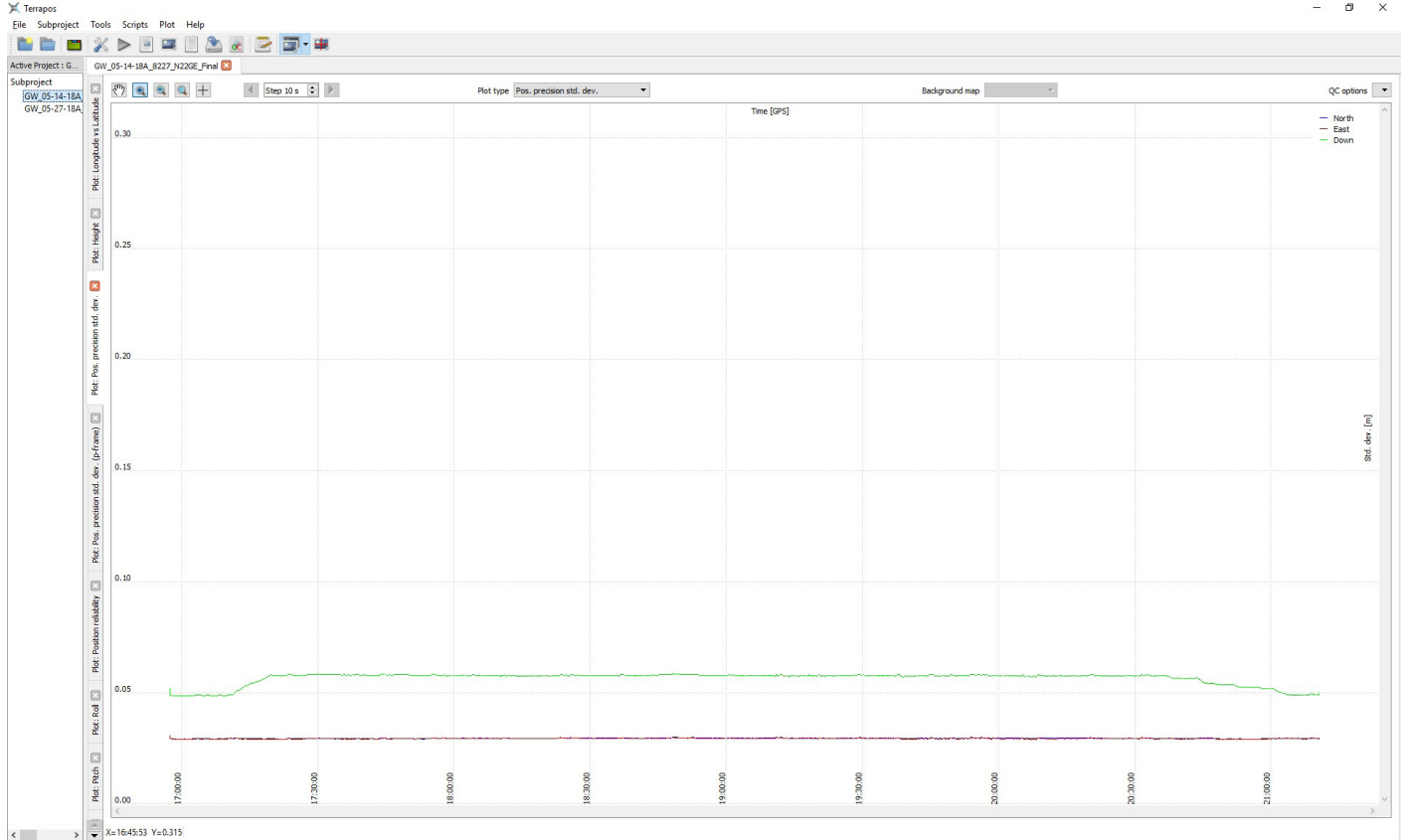
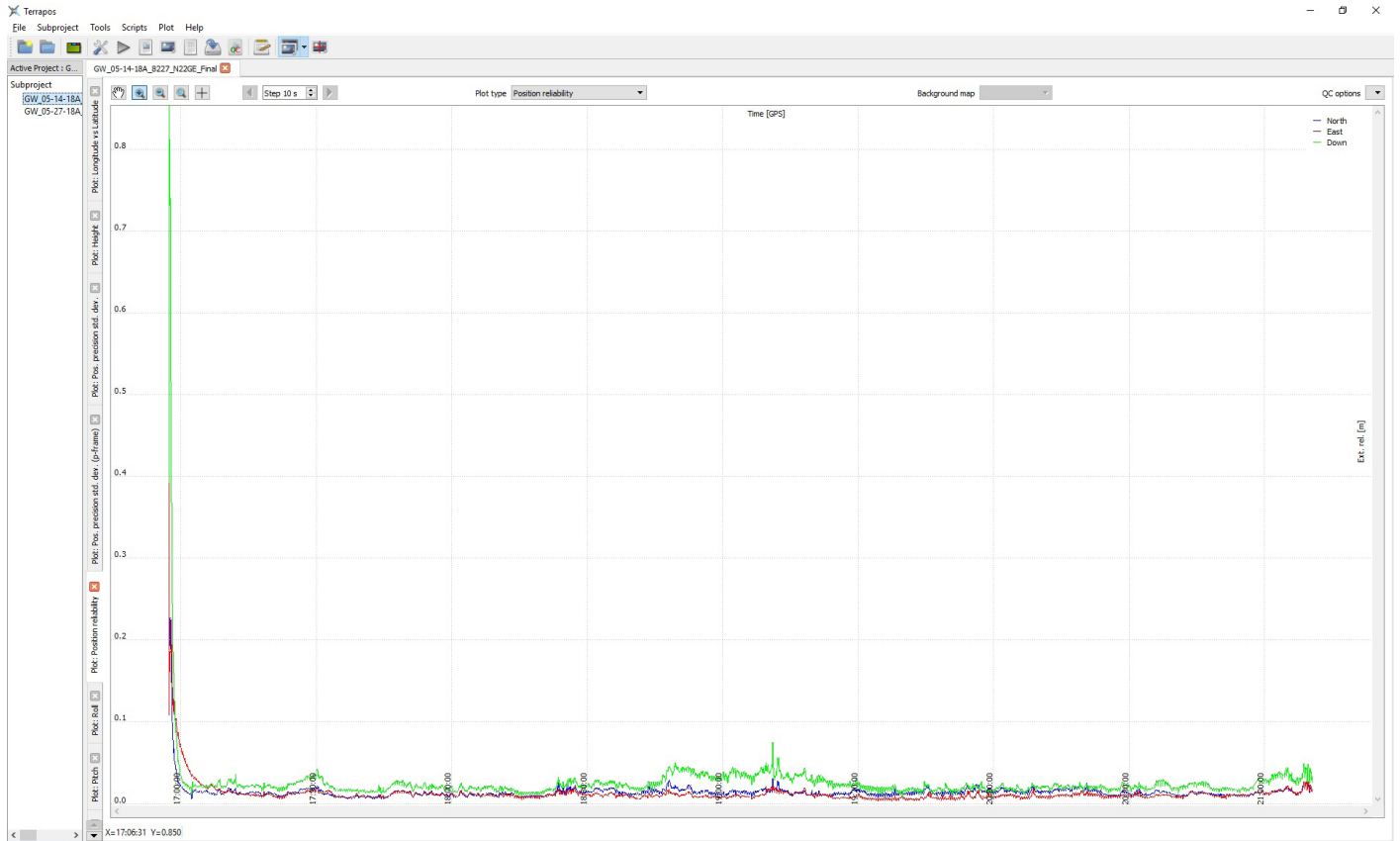
Flight Log

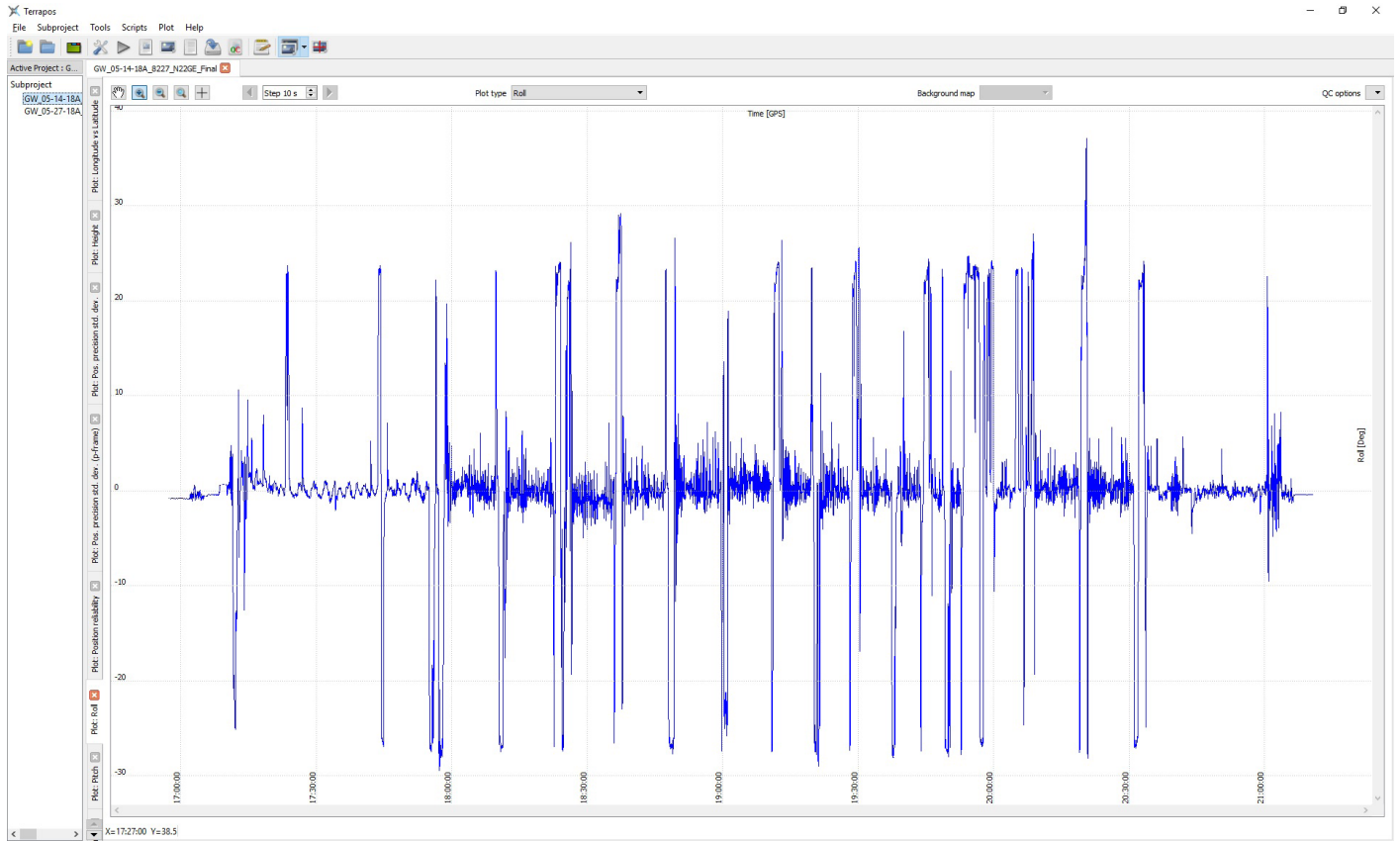
LIDAR & AERIAL PHOTO FLIGHT LOG														
PROJECT NAME		CSI_Outagamie (Flight#3)			DATE		2018/05/14							
SENSOR OPERATOR		A. Brooker			SENSOR(S)		ALS70-HP / Phase One							
PILOT		L. Kim			IMU		Honeywell uIRS							
AIRCRAFT		C-FQLC			ABGPS		IPAS-CUS6							
AIRBASE		GBR – Green Bay, WI			DATA DRIVES		LIDAR 2							
AIRCRAFT BLOCK TIME					MISSION DETAILS					STATIC ALIGNMENT				
Engine On:	13:21	Takeoff:	13:36	AGL Height:	1800m	Pulse Rate:	293Hz	START	GPS TIME		START	GPS TIME		END
Engine Off:	18:31	Landing:	18:22	Speed:	160kts	Scan Rate:	53Hz	END	GPS TIME		13:41 <td colspan="2">GPS TIME</td> <th>13:46</th>	GPS TIME		13:46
TOTAL:	5:2 hrs	TOTAL:	4:8 hrs	Laser Power:	100%	FOV:	400	START	GPS TIME		18:08 <td colspan="2">GPS TIME</td> <th>18:12</th>	GPS TIME		18:12
FLIGHT LINE #	SET HISTO	DIRECTION	LIDAR File Name	START	END	COMMENTS	"S" TURN							
032		274	134739	13:47:39	13:51:04	PL/C								
031		093	135417	13:54:17	13:57:25	PL/C								
030		274	140141	14:01:41	14:05:24	PL/C								
029		093	140854	14:08:54	14:11:59	PL/C								
028		274	141703	14:17:03	14:20:36	PL/C								
027		093	142403	14:24:03	14:27:21	PL/C								
026		274	143208	14:32:08	14:35:45	PL/C								
025		093	143926	14:39:26	14:42:30	PL/C								
024		274	144744	14:47:44	14:51:27	PL/C								
023		093	145523	14:55:23	15:04:17	C								
022		274	150752	15:07:52	15:17:42	C								
021		093	152132	15:21:32	15:29:50	C								
020		274	153356	15:33:56	15:43:50	C								
019		093	154719	15:47:19	15:55:38	C								
018		274	160002	16:00:02	16:10:11	C								
017		093	161332	16:13:32	16:22:01	C								
016		274	162635	16:26:35	16:36:42	C								
015		093	163957	16:39:57	16:48:31	C								
014		274	165309	16:53:09	17:03:04	C								
013		093	170634	17:06:34	17:15:14	C								
012		274	171911	17:19:11	17:28:52	C								
011		093	173259	17:32:59	17:41:37	C								
010		274	174617	17:46:17	17:55:44	C								
001		093	175851	17:58:51	18:07:32	C								
SUN ANGLE		ADDITIONAL NOTES: Sunny/High cloud to start. Low Scattered/Layer cloud moving in through South end of AOI. Clouds close to lines 010/001. Aborted flight due to cloud coverage												
@Start:	PDOP 1.1 18 Sats													
@End:	Lines 024 – 032 was the completion of the partial lines from Flight#2													
@Peak:														

May 14, 2018-A (SN8227, N22GE)





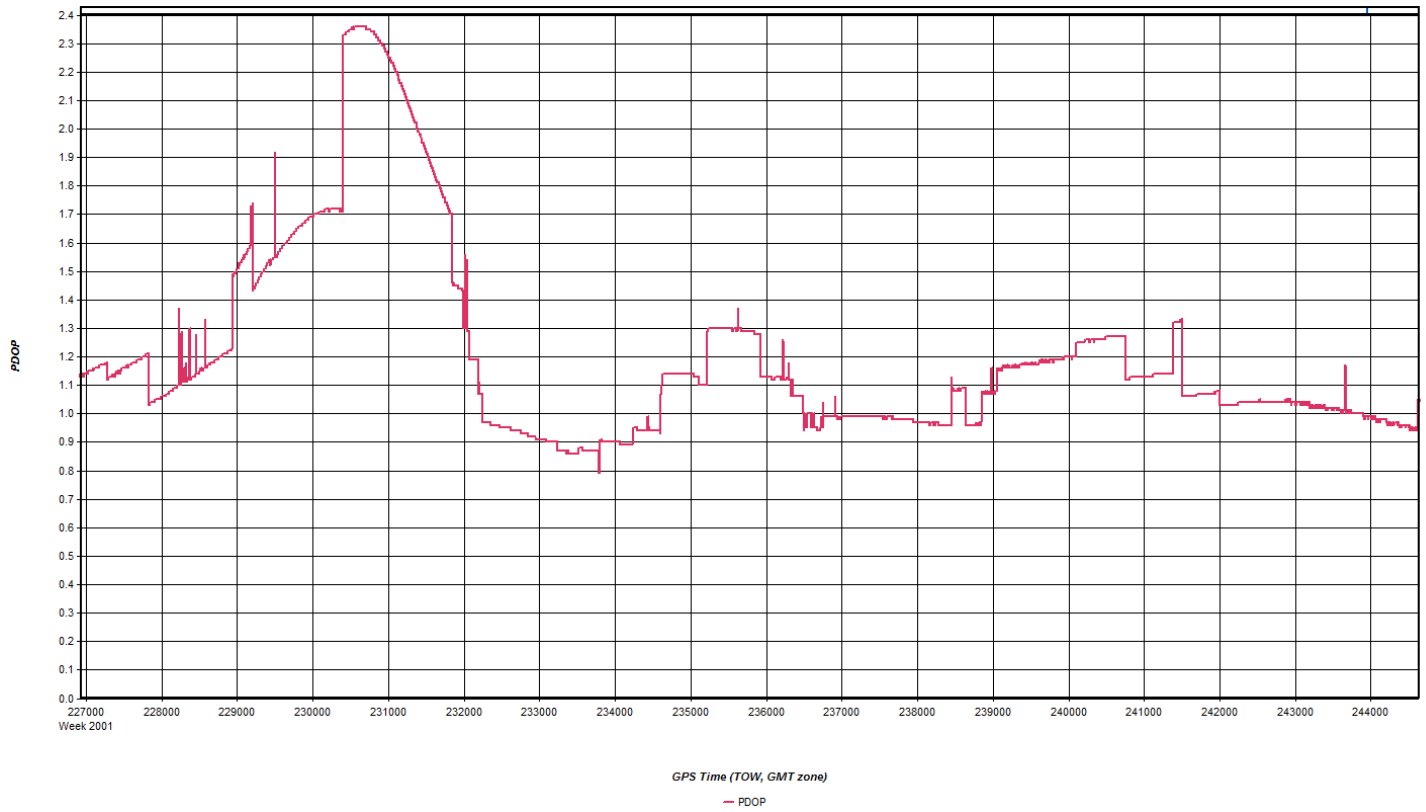
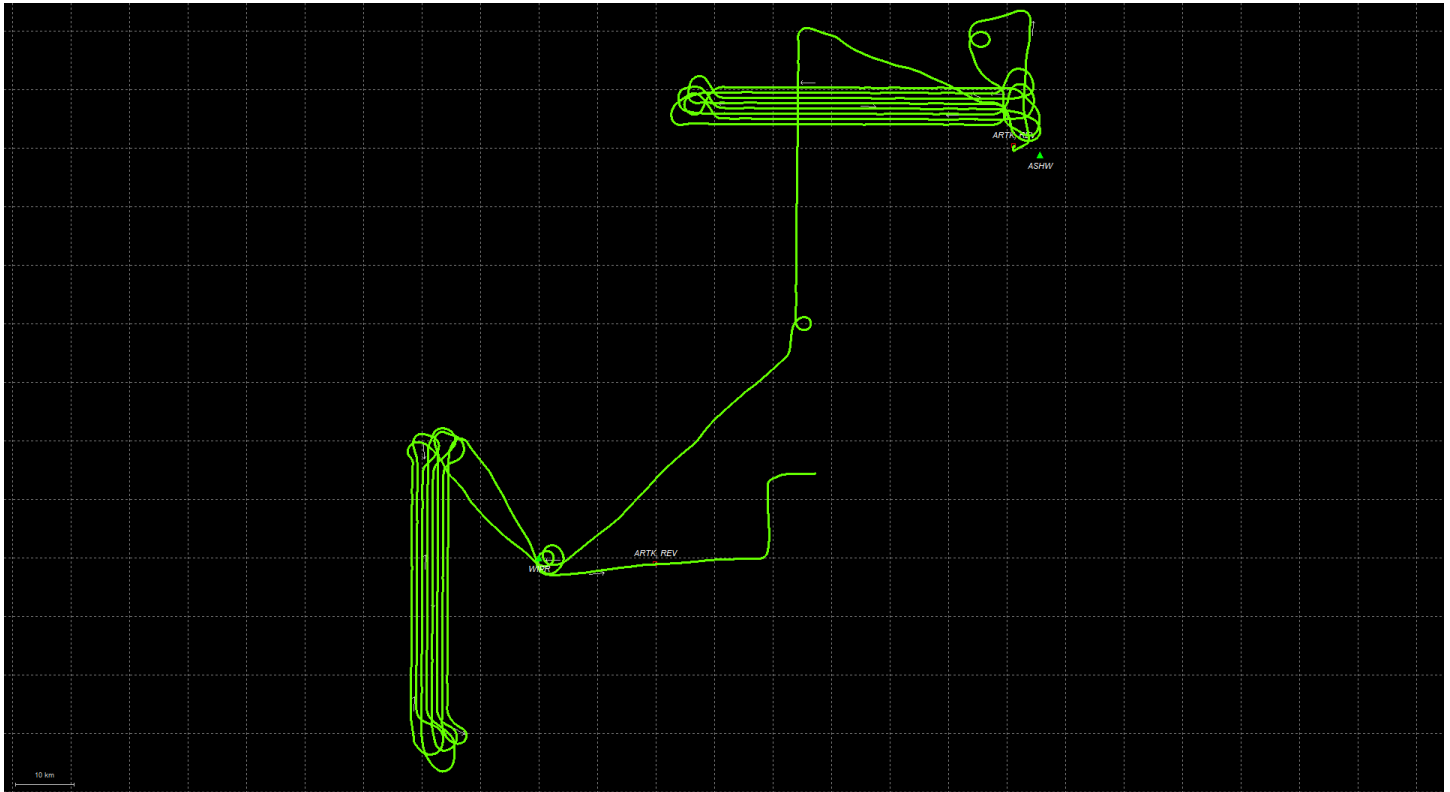


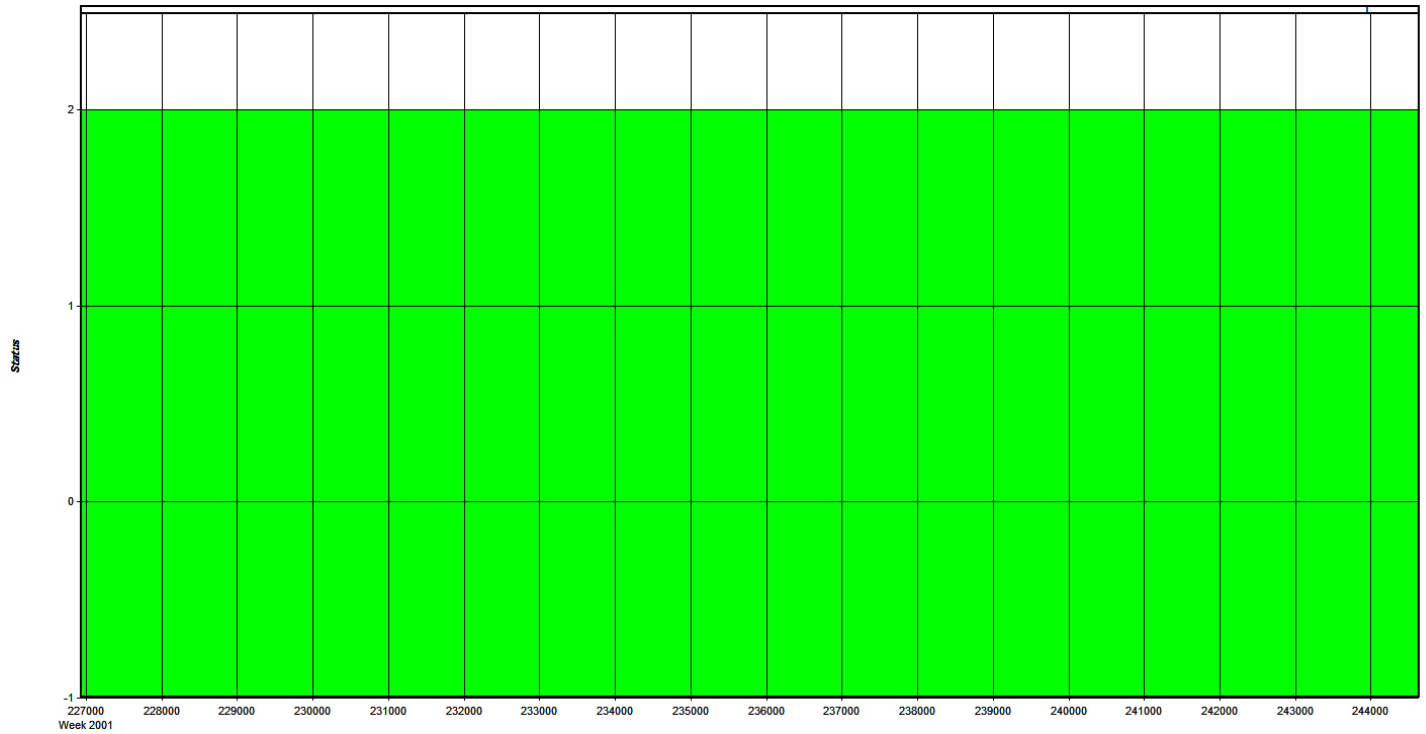


Flight Log

Project: WLOL - Day Co. Date: 5-14-18 <small>(email log daily to flight_log_distribution_list@quantumspatial.com)</small>		Page: 1 of 1							
Project #: 31532732963 Flight Mgmt File: 20180514_145602		Tech: ALUST							
Aircraft: ZEGE Begin Hobbs: 9562.0 End Hobbs: 9565.9 Total: 3.9 Pilot: Aaron Co-Pilot:		Tot Time Aloft:							
Dep Apt: SBW Dep Time (Local): 12:00 (Z) Arr Apt: SBW Arr Time (Local): 4:05 (Z) 21:21:05									
CORS: Sta 1: APP Sta 2: Flyovers: Y / N If Y, times: Sta1) Sta2)									
GPS Unit: Y / N Sta 1: Sta 2: Flyovers: Y / N If Y, times: Sta1) Sta2)									
Gd Temp beg: 9 °C End: OAT beg: °C End: °C Altimeter begin: 29.89 end:									
LIDAR Type: ALS80 Serial #: 8227 Alt AGL: 7500 Avg Pt Spacing: 160 Max Gdspd: 160 Avg Pt Spacing: 160 Power: 100 PPSM:		Mag Cal: 657 Mag Name:							
FOV: 40 Scan Freq: 52 MpM: 1 / N Pulse Rate: 390 Power: 100		Mag Cal: 602 Mag Name: DRIVE							
		Mag Cal: 143 Mag Name: 6							
FLIGHT LINE NOTES - visibility, clouds, smoke, partial, etc.									
Line #	Hdg	Start (UTC)	End (UTC)	Gd Spd	POOP/s	GPS Altitude	Crb	Turb (0..3)	Notes
051	28°	1759	1809	160	1.2/23	7390			LOW RETURNS TO TOP WIND 275 @ 23KTS COASTAL FOG
050	28°	1812	1823	143	1.2/23	7345			COASTAL FOG - GOING WEST CLOUDS THICK
043	28°	1826	1835	157	1.1/24	7300		+	
044	28°	1838	1847	143	1.1/22	7365		+	
045	28°	1849	1859	157	1.4/20	7340			CLOUDS 12 MI FSE, 21 FSE GOING WEST CLOUDS
042	28°	1901	1910	155	1.2/21	7245			
041	28°	1913	1920	161	1.0/23	7320		+	
040	28°	1922	1928	153	1.1/21	7325			
039	28°	1931	1937	156	1.3/20	7320			
038	28°	1941	1944	162	1.1/21	7320			
037	28°	1946	1948	159	1.1/21	7310			
036	28°	1950	1952	159	1.2/21	7330			36-38 11 MILES TOTAL APPROX 17.5 HZ
035	28°								
034	115°	2000	2004	167	1.2/20	7300			MARINE X-TIER
016	28°	2004	2008	151	1.1/21	7300		+	CLOUDS 20 MI FSE 23-24 FSE -
047	208°	2021	2030	159	1.2/20	7300		+	CLOUDS 24-28 FSE
Total Proj Lines:				Lines Flown:		Lines Remains:		Online Time: 21.5 Job Time: 1.4 Notes:	

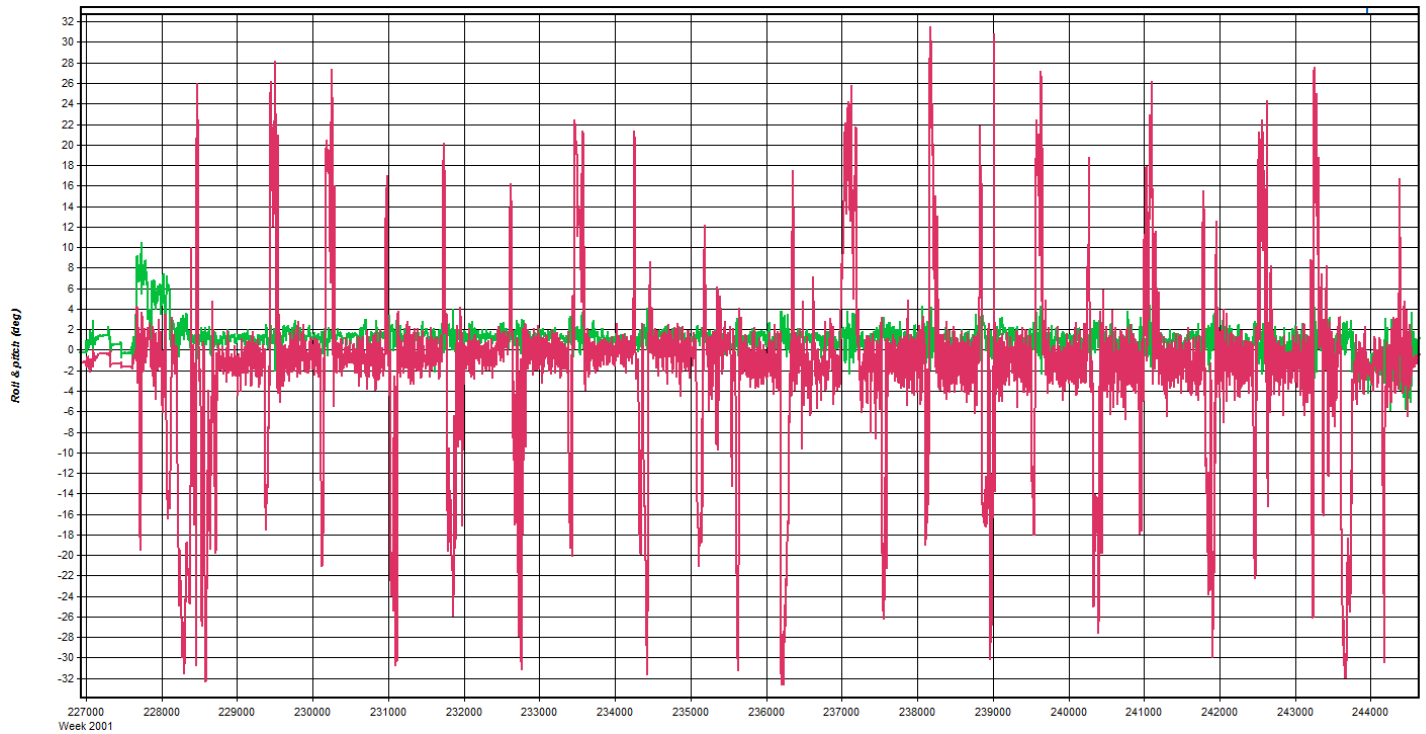
May 15, 2018-A (SN7229, C-FQLC)





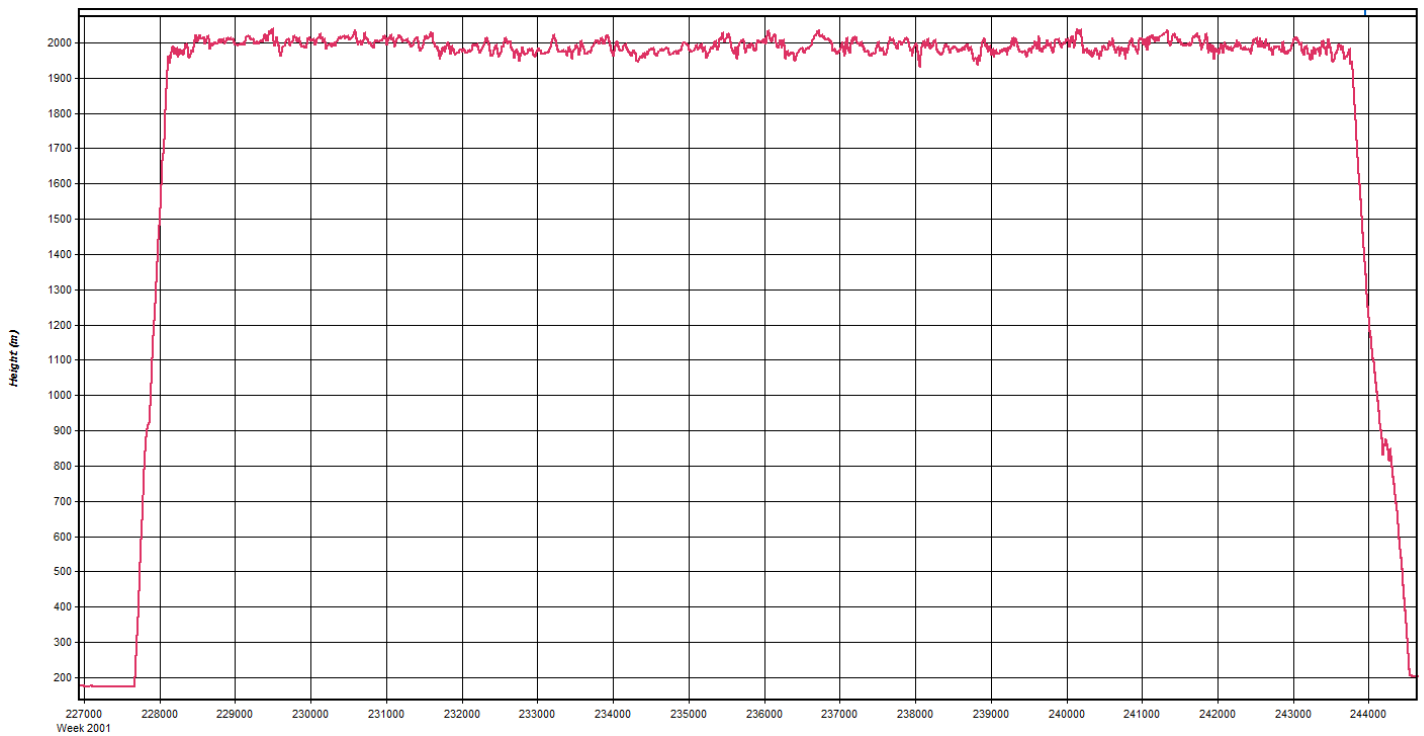
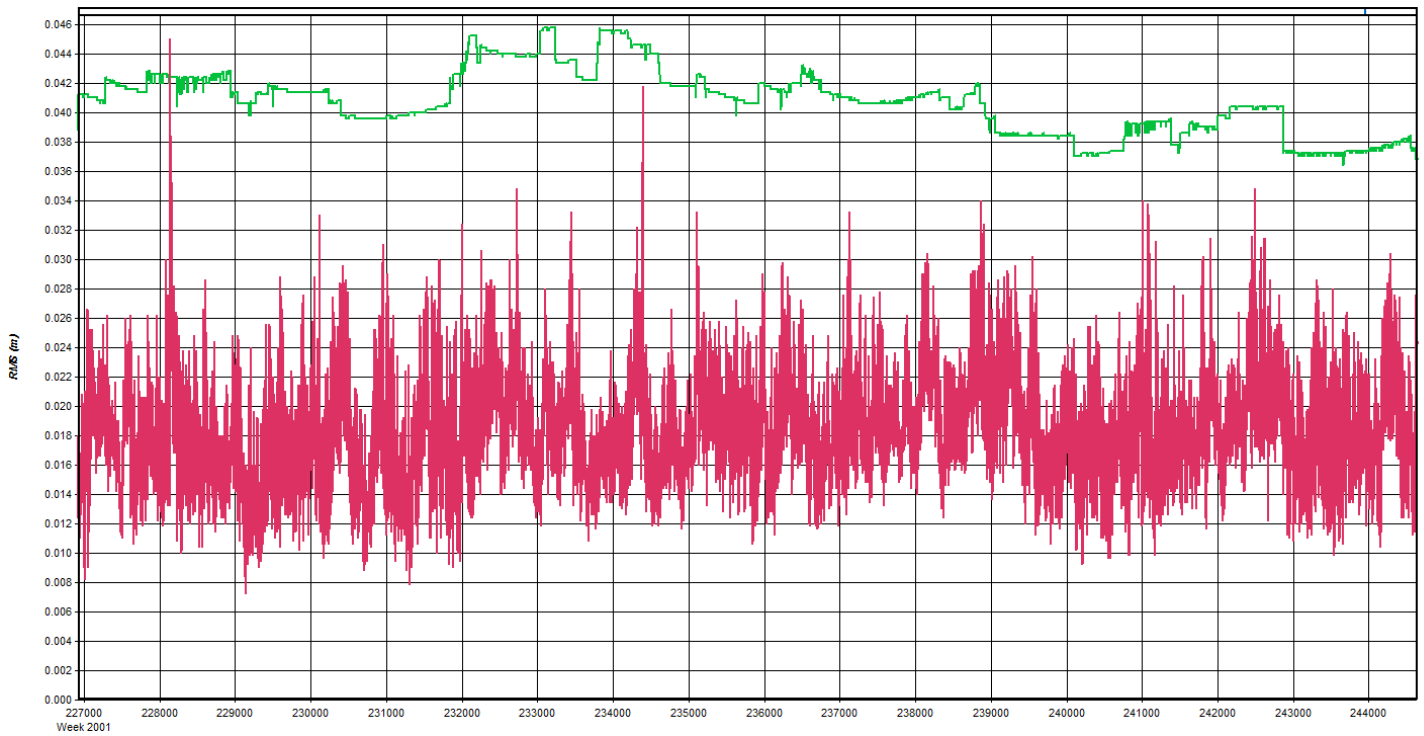
GPS Time (TOW, GMT zone)

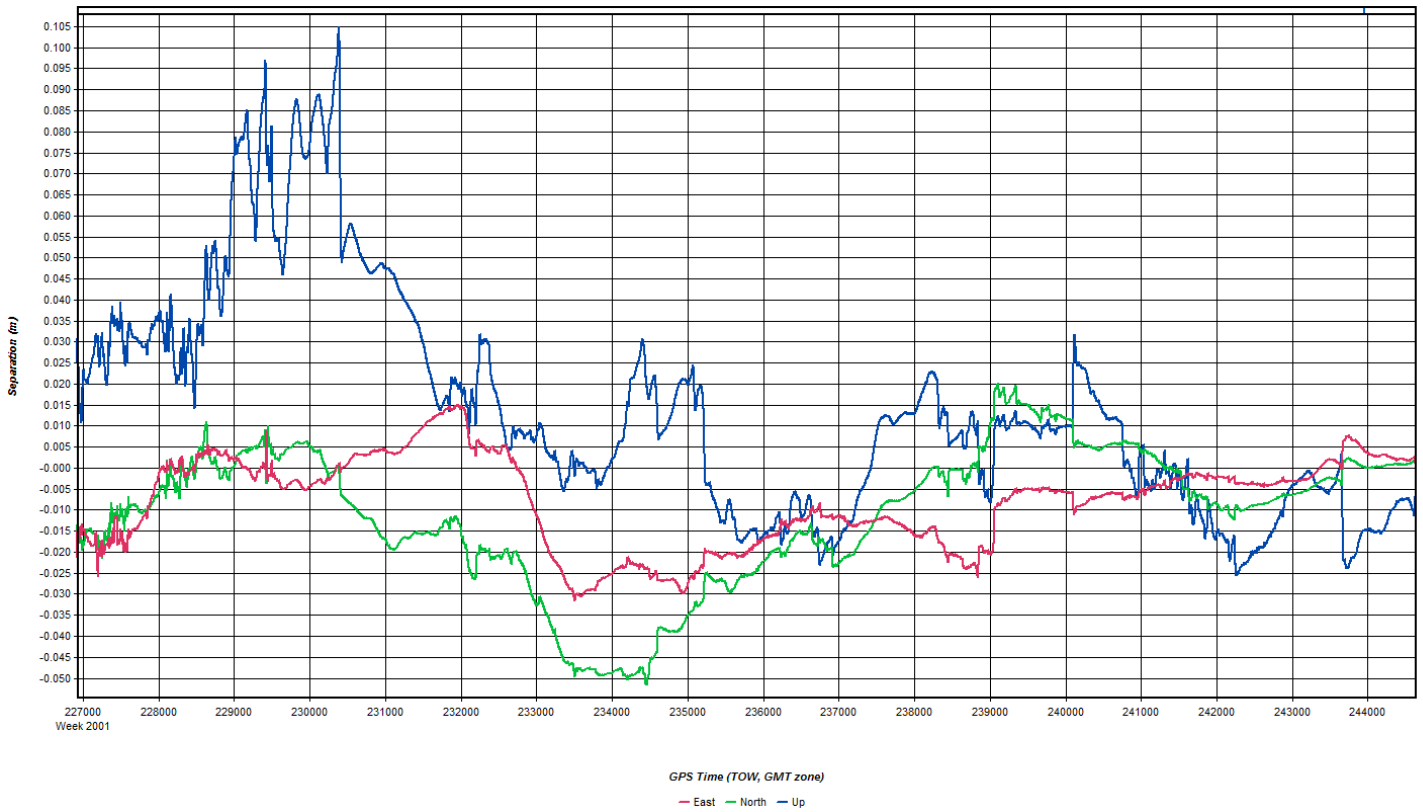
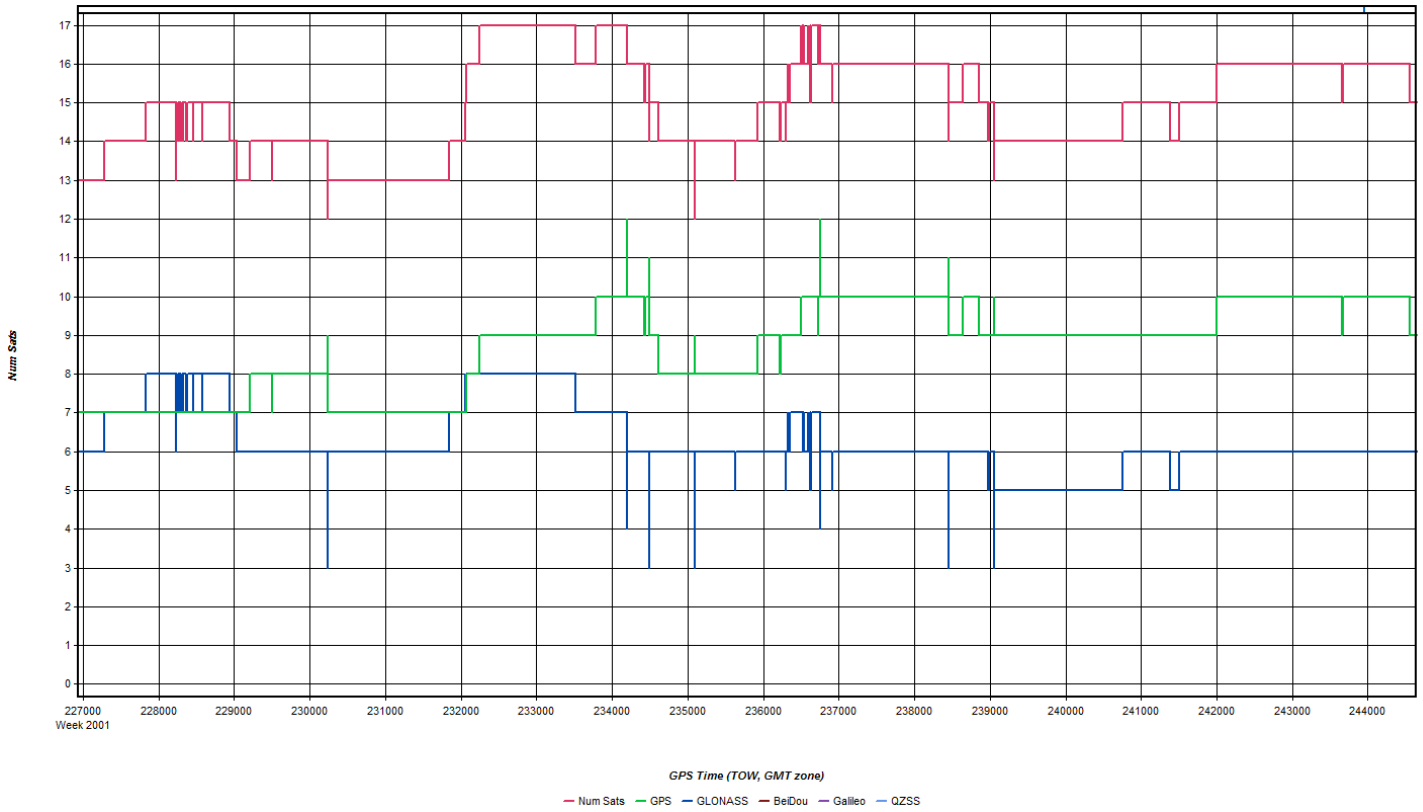
— Float — Forward Fixed — Reverse Fixed — Fixed (2 or more)

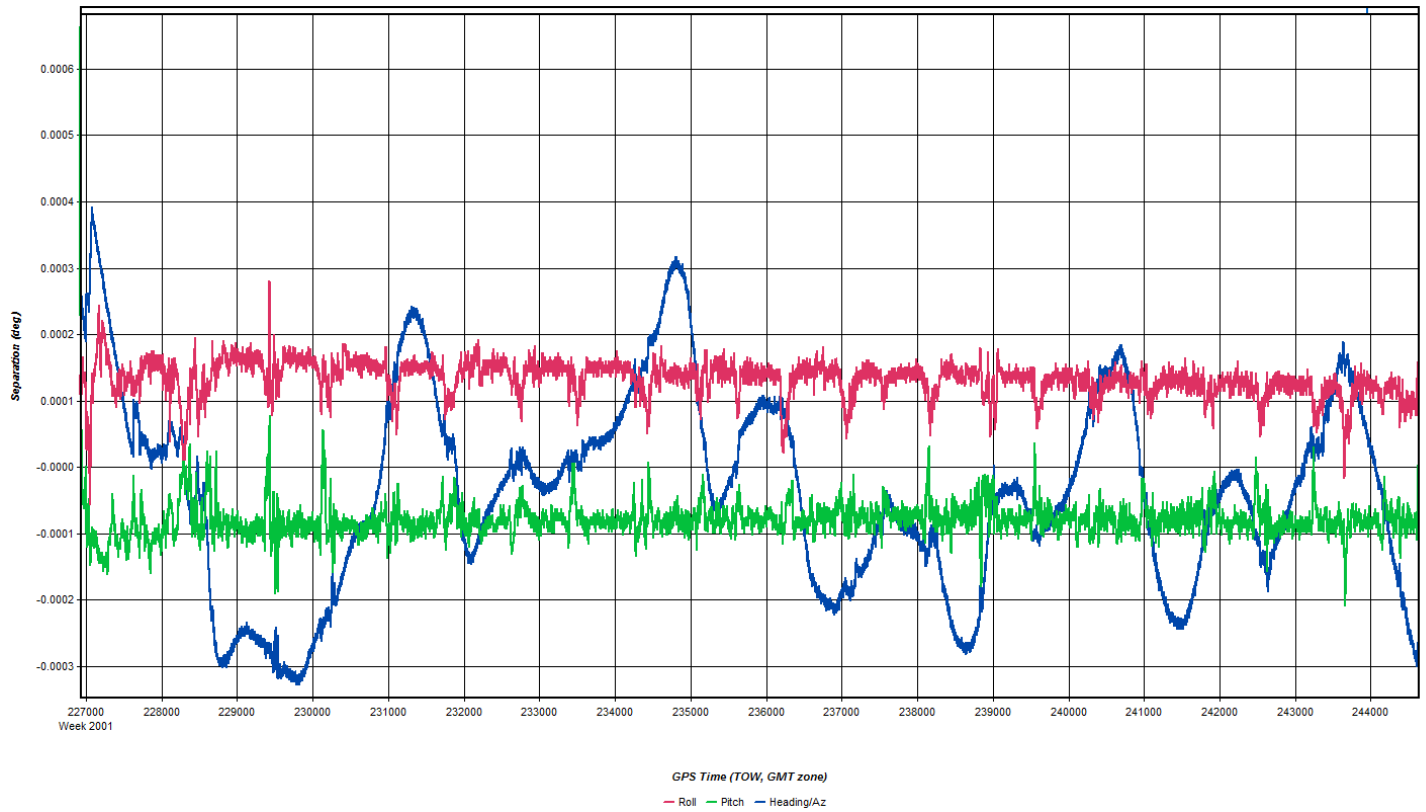
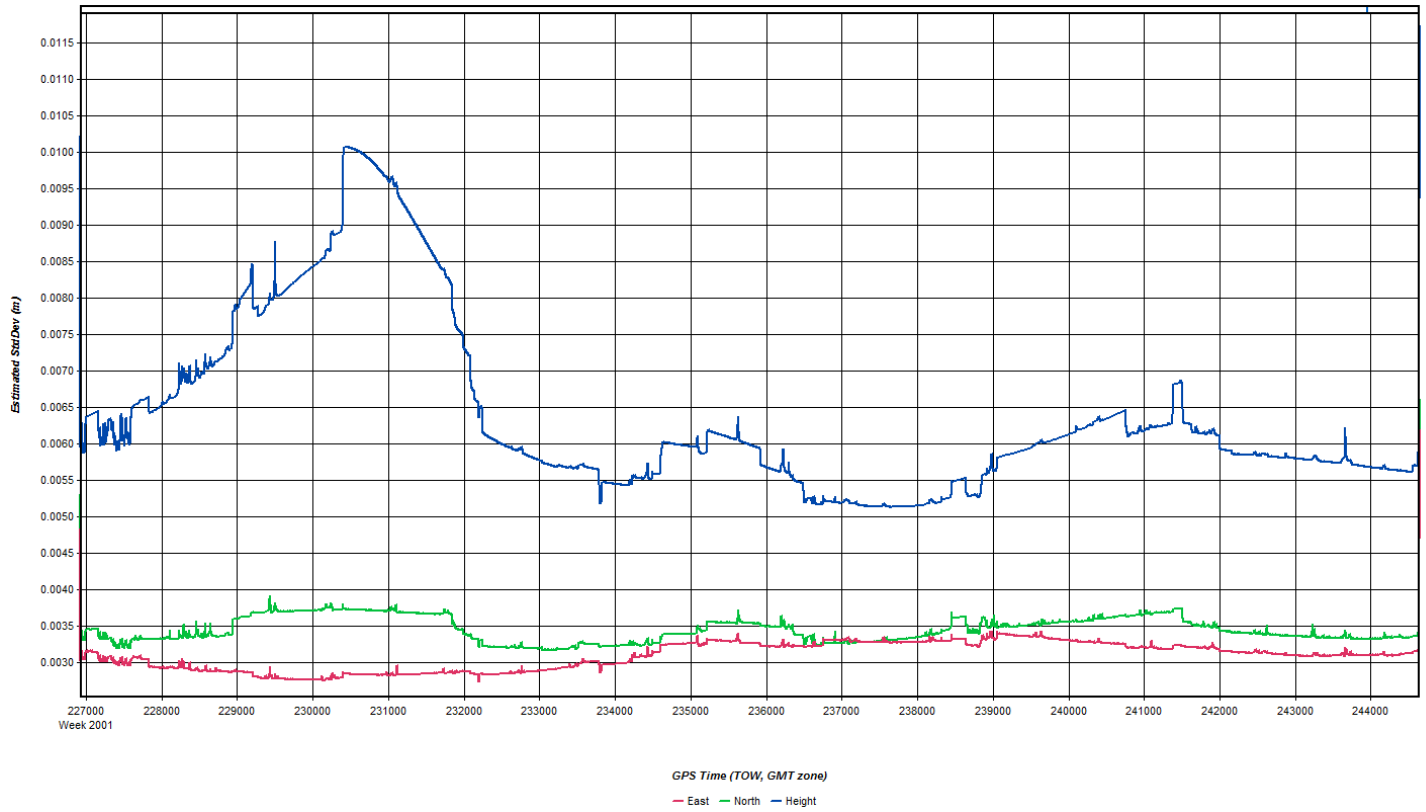


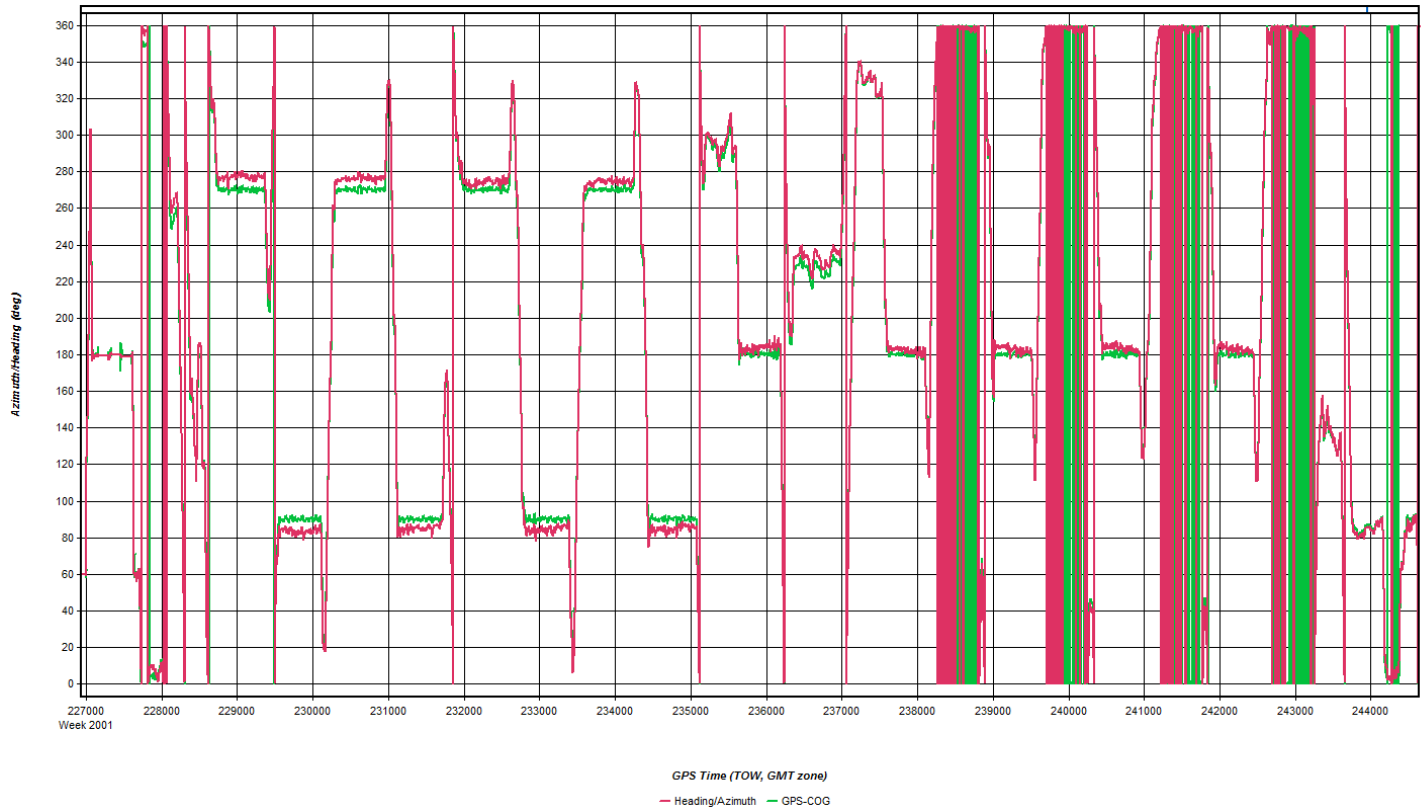
GPS Time (TOW, GMT zone)

— Roll — Pitch









Coordinate/Antenna Settings ? X

Master Remote

Base Station
 2: ASHW Name: ASHW Disabled
 File: E:\Proc\32963_WI_3_Co\Atlas_Geomatics_Recvd_5-21-18\QSI_Ou

Coordinates
 Latitude: North 44 28 45.01117 Coord. options
 Longitude: West 88 04 33.56148 Save to Favorites
 Ellipsoidal height: 160.338 m
 Datum: WGS84 Proc Datum: WGS84
 Epoch: year

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

Measured height: 0.000 m Measured to
 ARP
 L1 Phase Centre
 ARP to L1 offset: 0.065 m
 Applied height: 0.065 m Compute From Slant

OK Cancel

Coordinate/Antenna Settings ? X

Master Remote

Base Station
1: WIPR Name: WIPR Disabled
File: E:\Proc\32963_WI_3_Co\Atlis_Geomatics_Recvd_5-21-18\QSI_Ou

Coordinates
Latitude: North 43 51 47.08208 Coord. options
Longitude: West 89 08 32.31128 Save to Favorites
Ellipsoidal height: 224.338 m
Datum: WGS84 Proc Datum: WGS84
Epoch: year

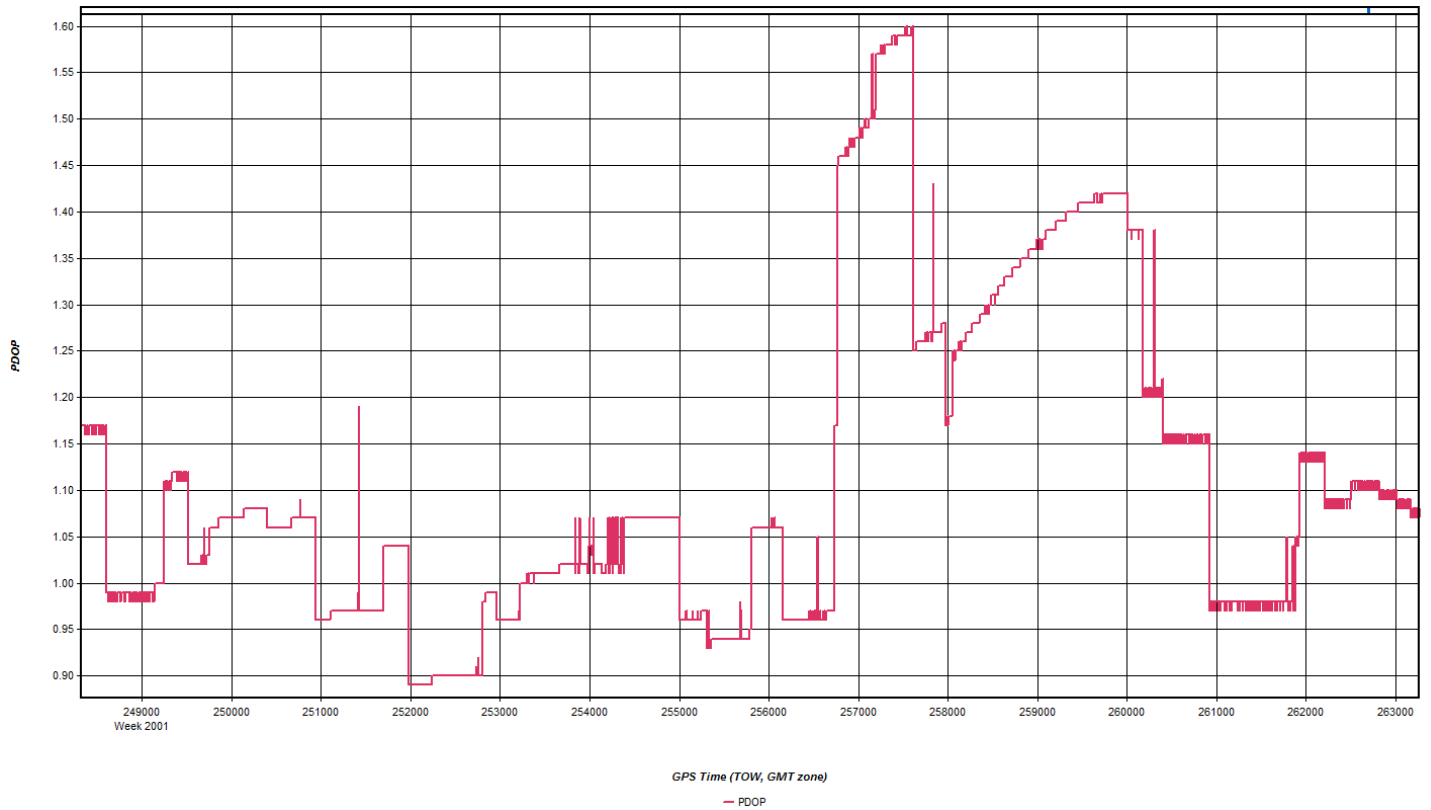
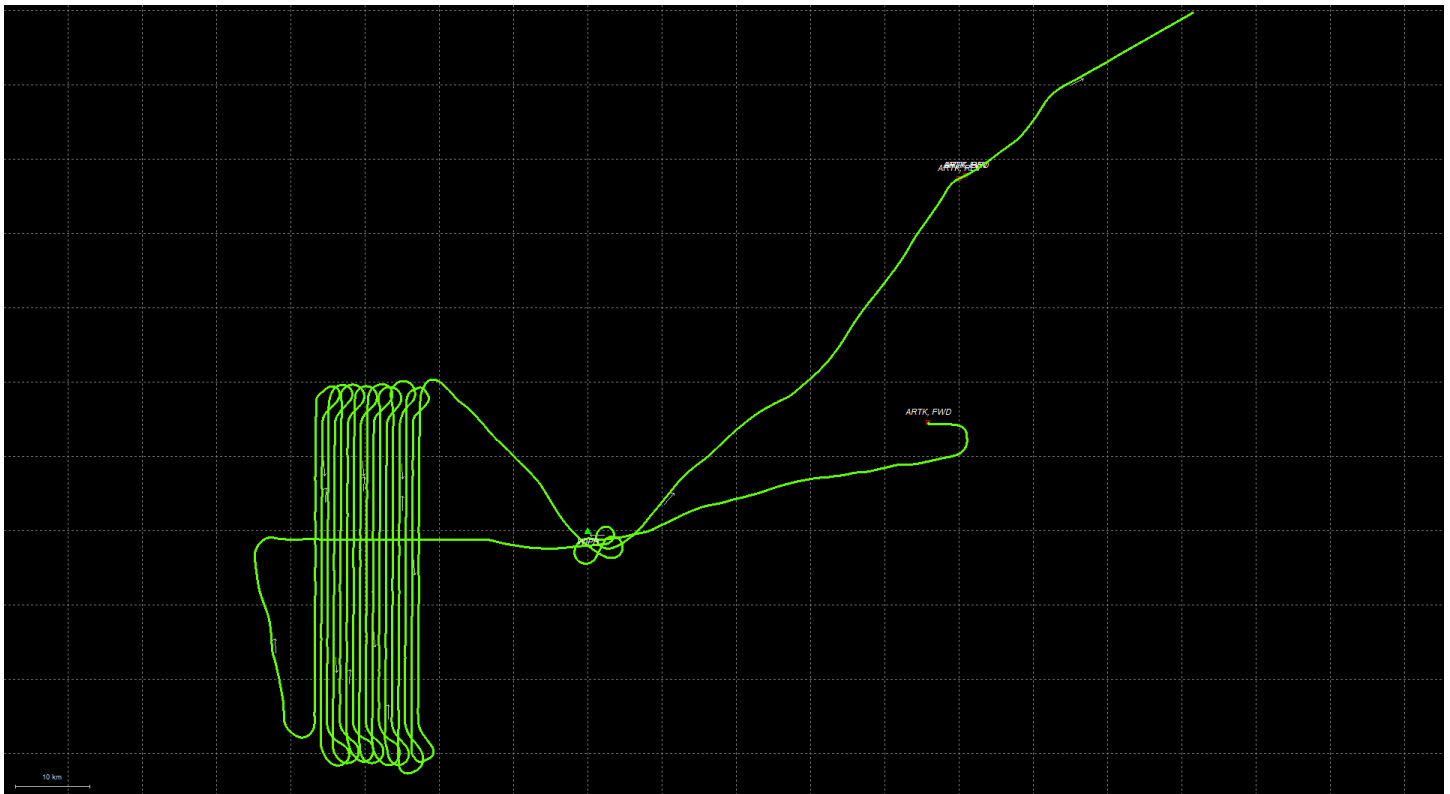
Antenna Height
From station file: TRM57971.00, NONE View STA File
Antenna profile: TRM57971.00 Info
Measured height: 0.000 m
ARP to L1 offset: 0.065 m
Applied height: 0.065 m
Measured to:
 ARP
 L1 Phase Centre
Compute From Slant

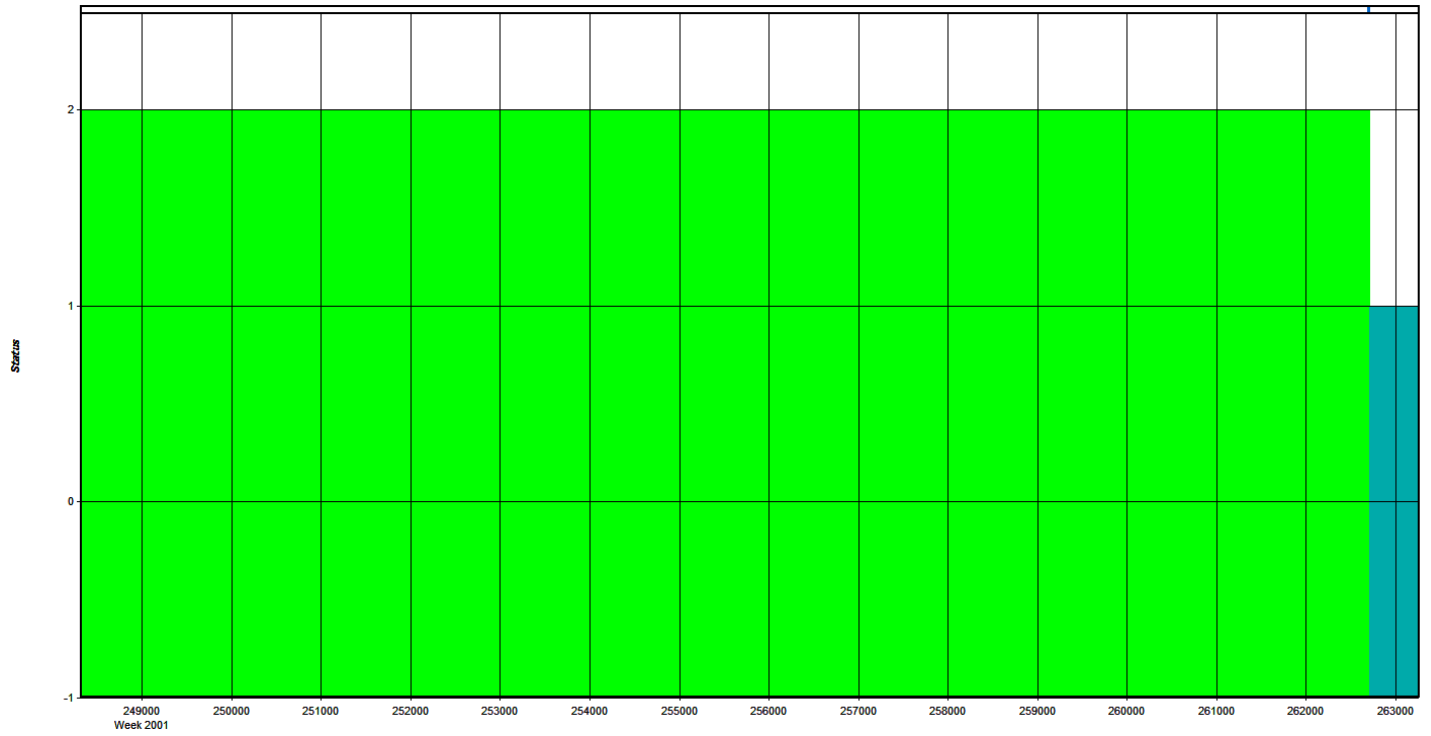
OK Cancel

Flight Log

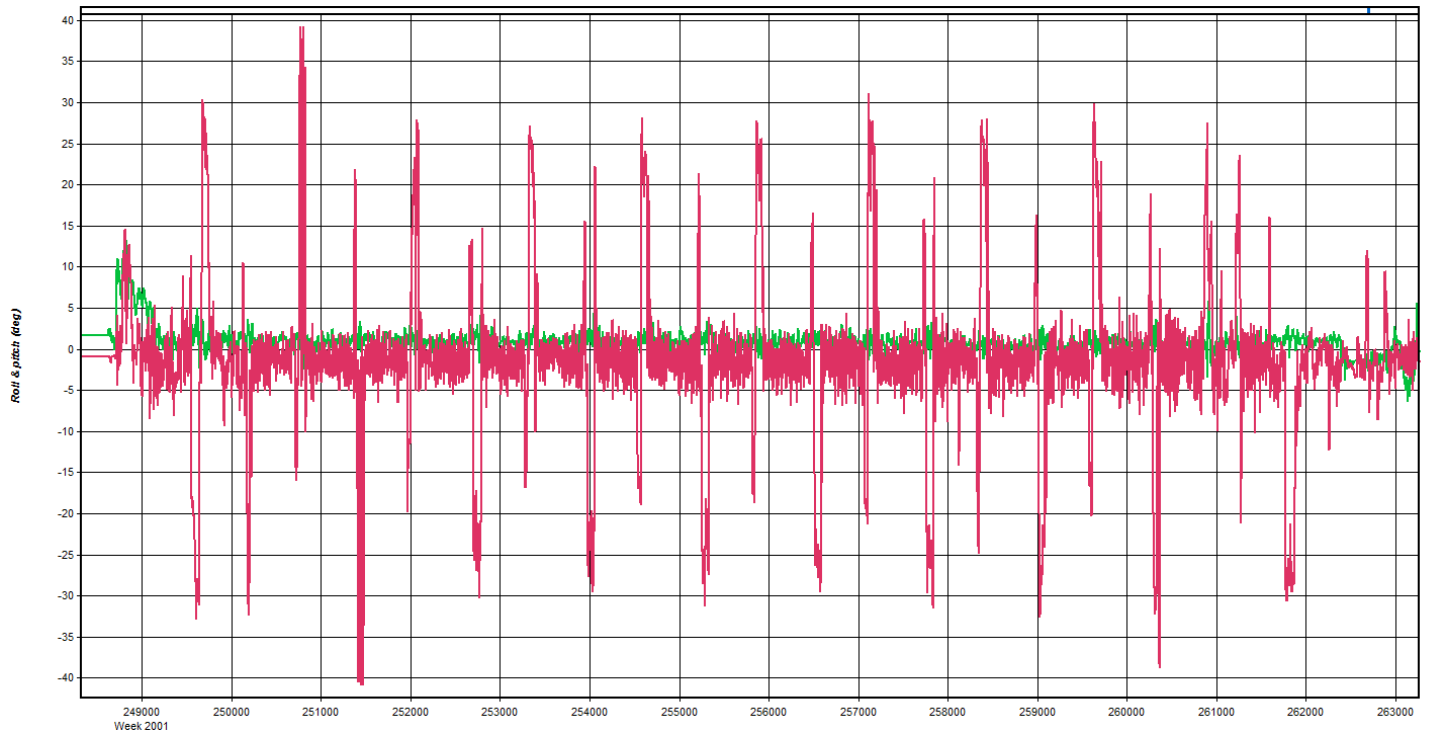
LIDAR & AERIAL PHOTO FLIGHT LOG											
 LIDAR + IMAGERY + GEOMATICS				PROJECT NAME GSI_Outagamie (Lift#4)		DATE 2018/05/15		SENSOR(S) ALS70-HP / Phase One		IMU Honeywell uIRS	
SENSOR OPERATOR A. Brooker				PILOT L. Kim				ABGPS IPAS-CUS6		DATA DRIVES LIDAR 2	
AIRCRAFT GBR - Green Bay, WI				AIRBASE GBR - Green Bay, WI				STATIC ALIGNMENT Pre-Mission 15:22		GPS TIME START 17:36	
AIRCRAFT BLOCK TIME 14:47 Takeoff: 15:14 20:02 Landing: 19:56 TOTAL: 5.3 hrs				MISSION DETAILS 1800m Pulse Rate: 293Hz 160kts Scan Rate: 53Hz 4.7 hrs Laser Power: 400				GPS TIME START 15:32:29 END 15:42:23		COMMENTS C	
FLIGHT LINE #	SET HISTO	DIRECTION	LIDAR File Name	START	END	COMMENTS	"S" TURN				
002		274	153229	15:32:29	15:42:23	C					
003		093	154600	15:46:00	15:54:47	C					
004		274	155850	15:58:50	16:08:57	C					
005		093	161236	16:12:36	16:21:28	C					
006		274	162616	16:26:16	16:36:18	C					
007		093	164030	16:40:30	16:49:26	C					
008		274	165352	16:53:52	17:03:38	C					
009		093	170826	17:08:26	17:17:32	C					
CL		184	172748	17:27:48	17:36:08	C					
ADDITIONAL NOTES: Sunny/Hazy/stronger cross winds											
SUN ANGLE @Start: @End: @Peak:		PDOP 1.2 18 Sats									

May 15, 2018-B (SN7229, C-FQLC)

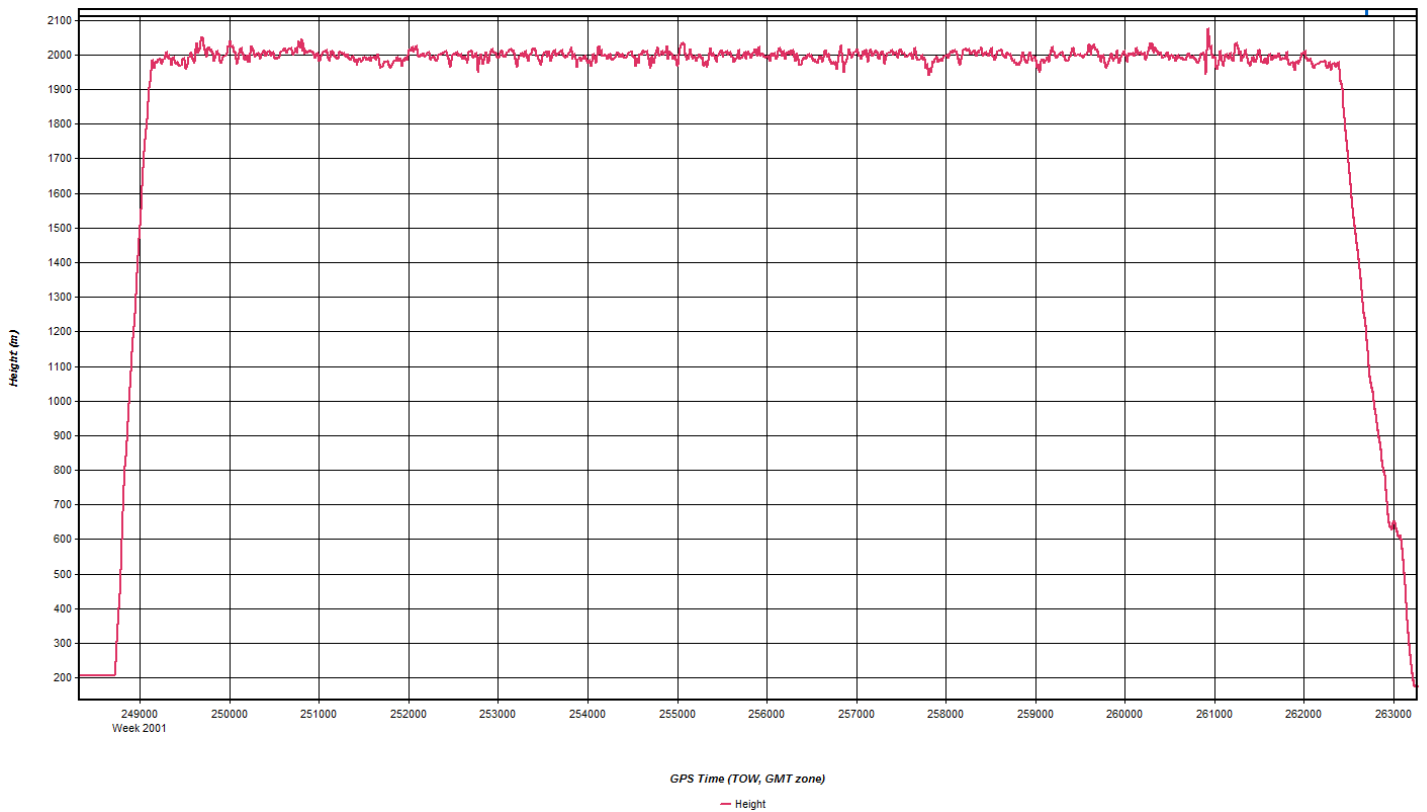
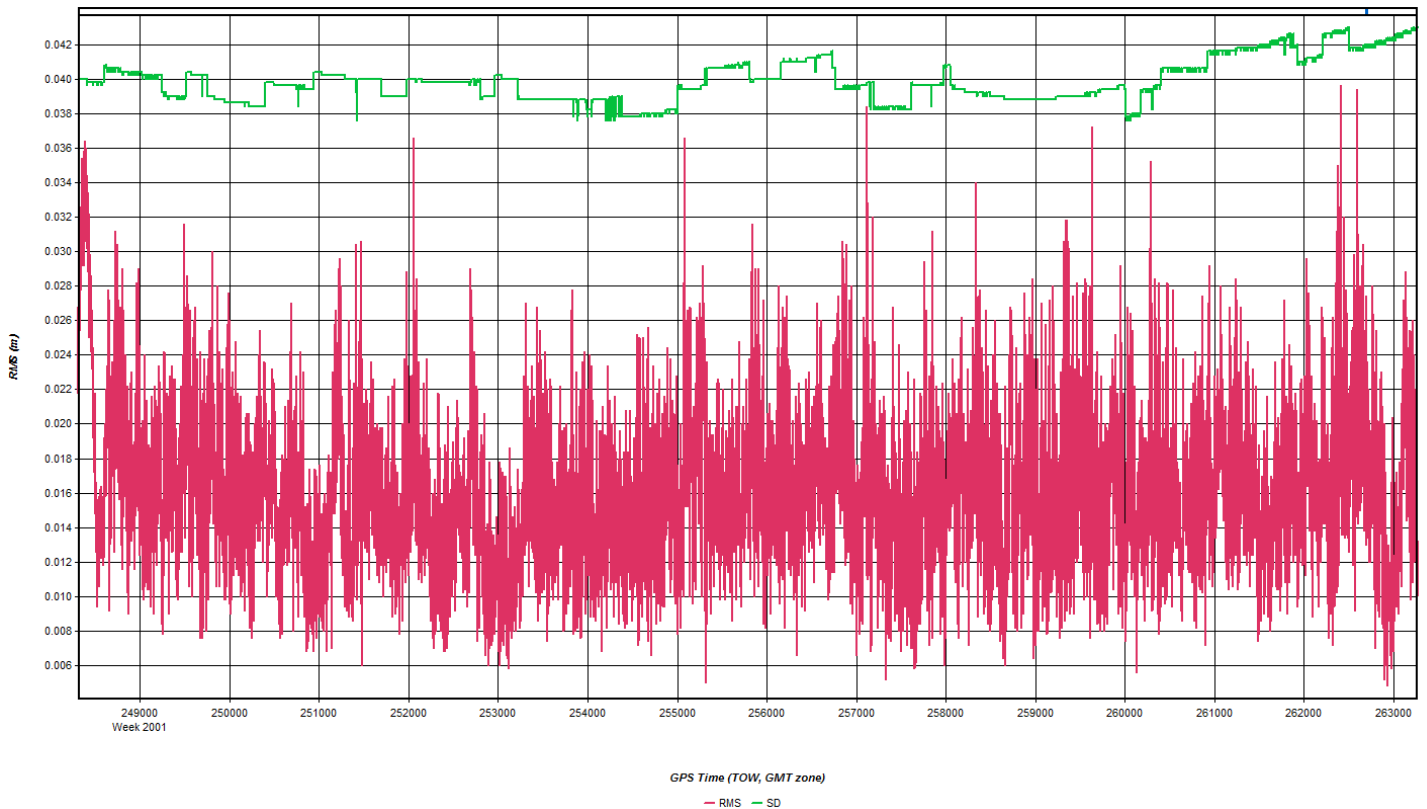


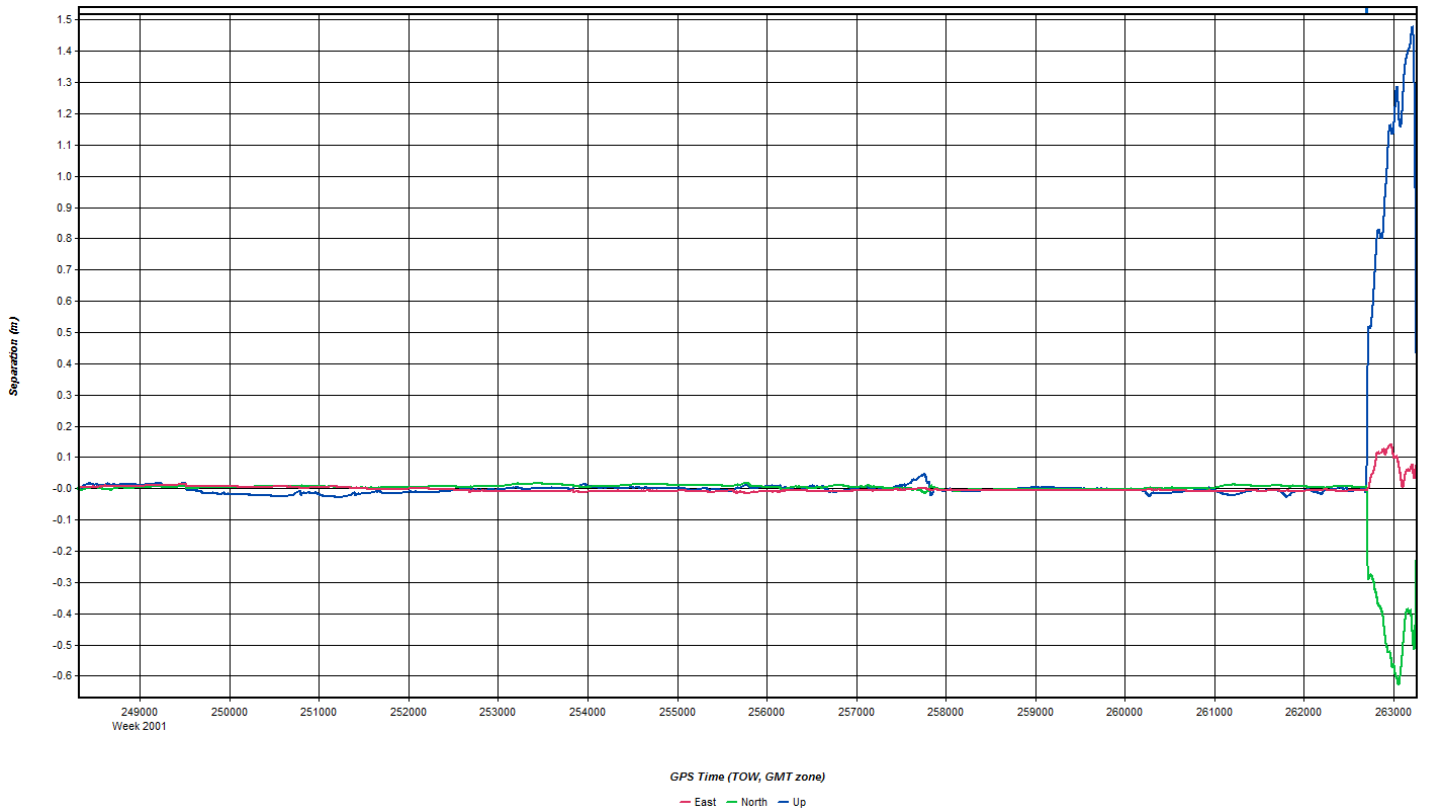
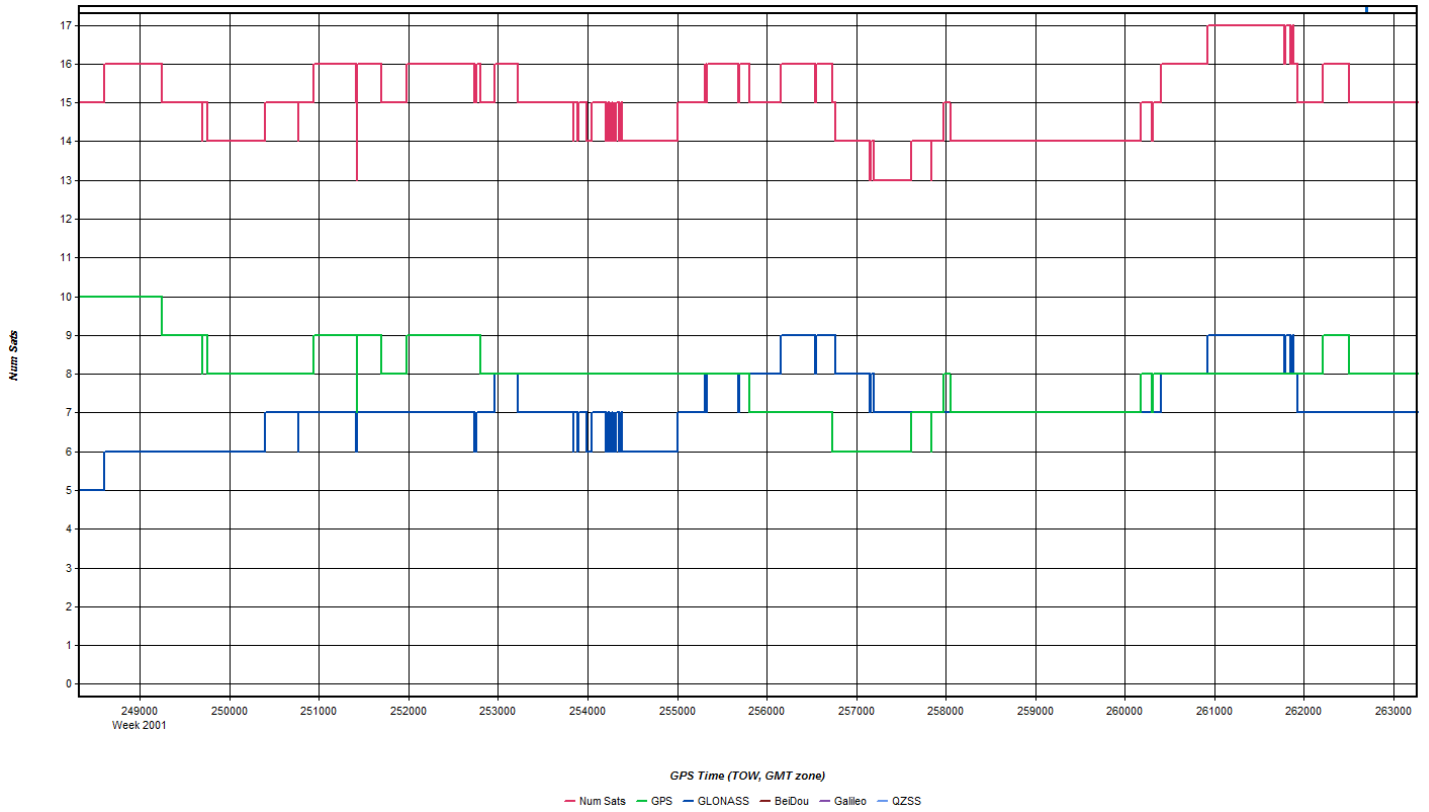


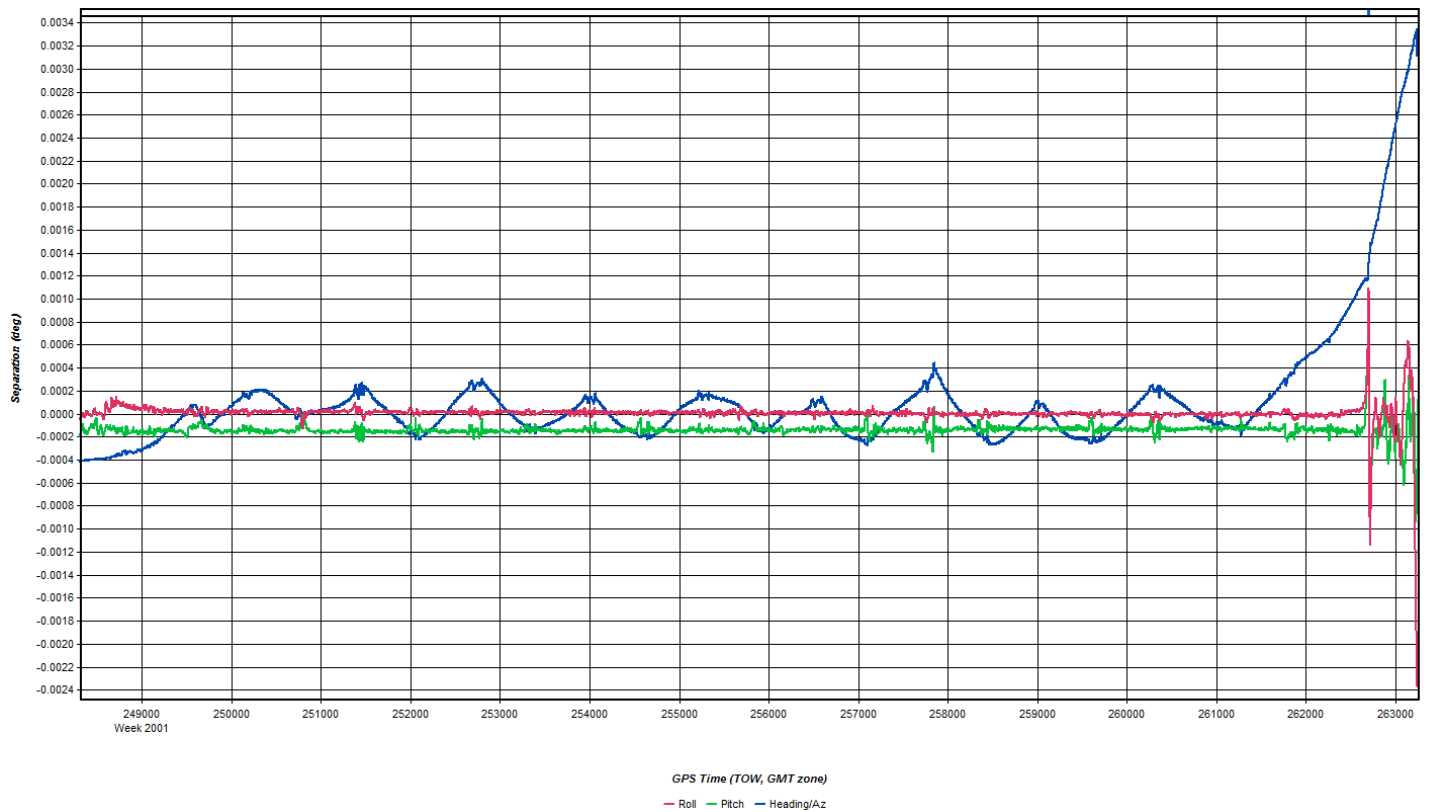
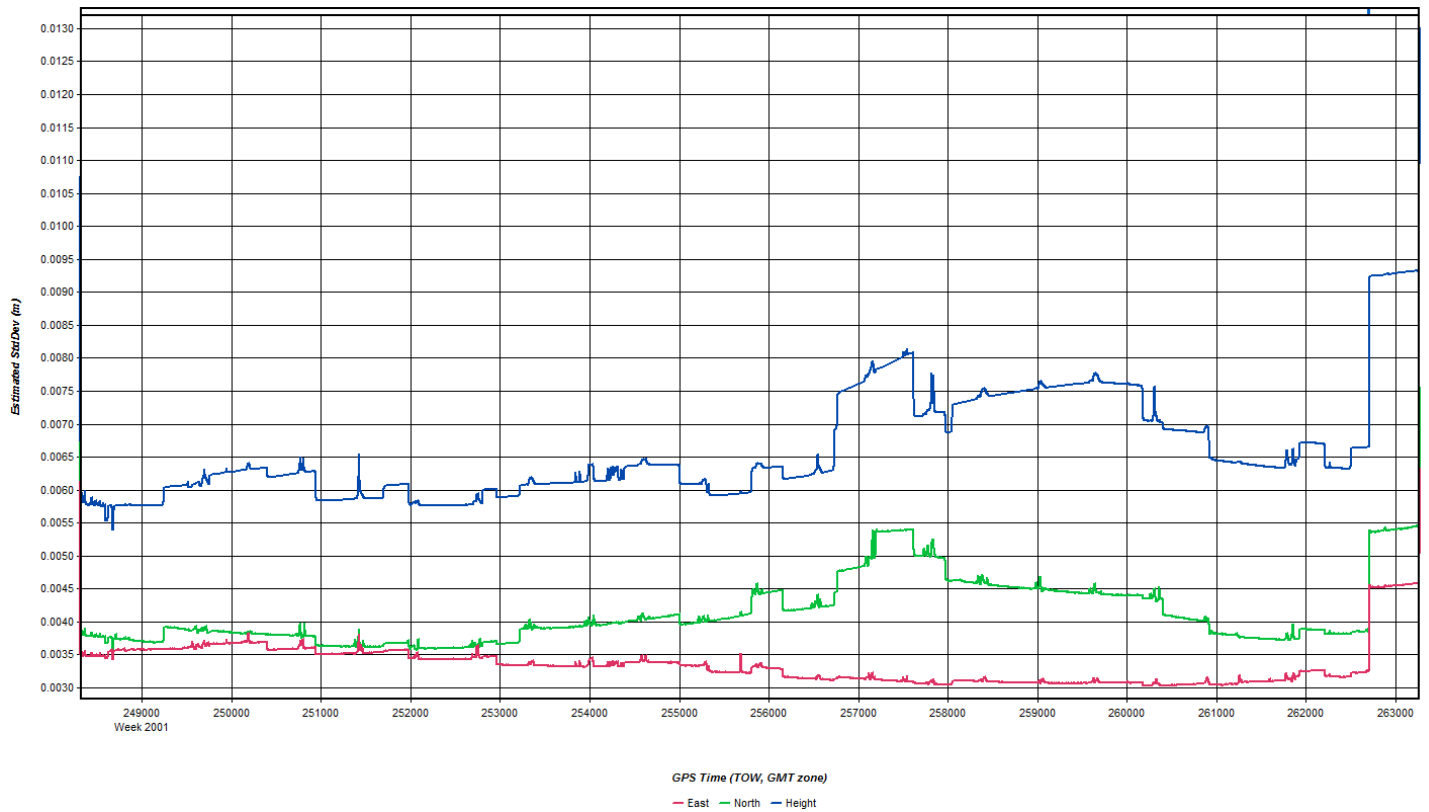
GPS Time (TOW, GMT zone)
 - Float - Forward Fixed - Reverse Fixed - Fixed (2 or more)

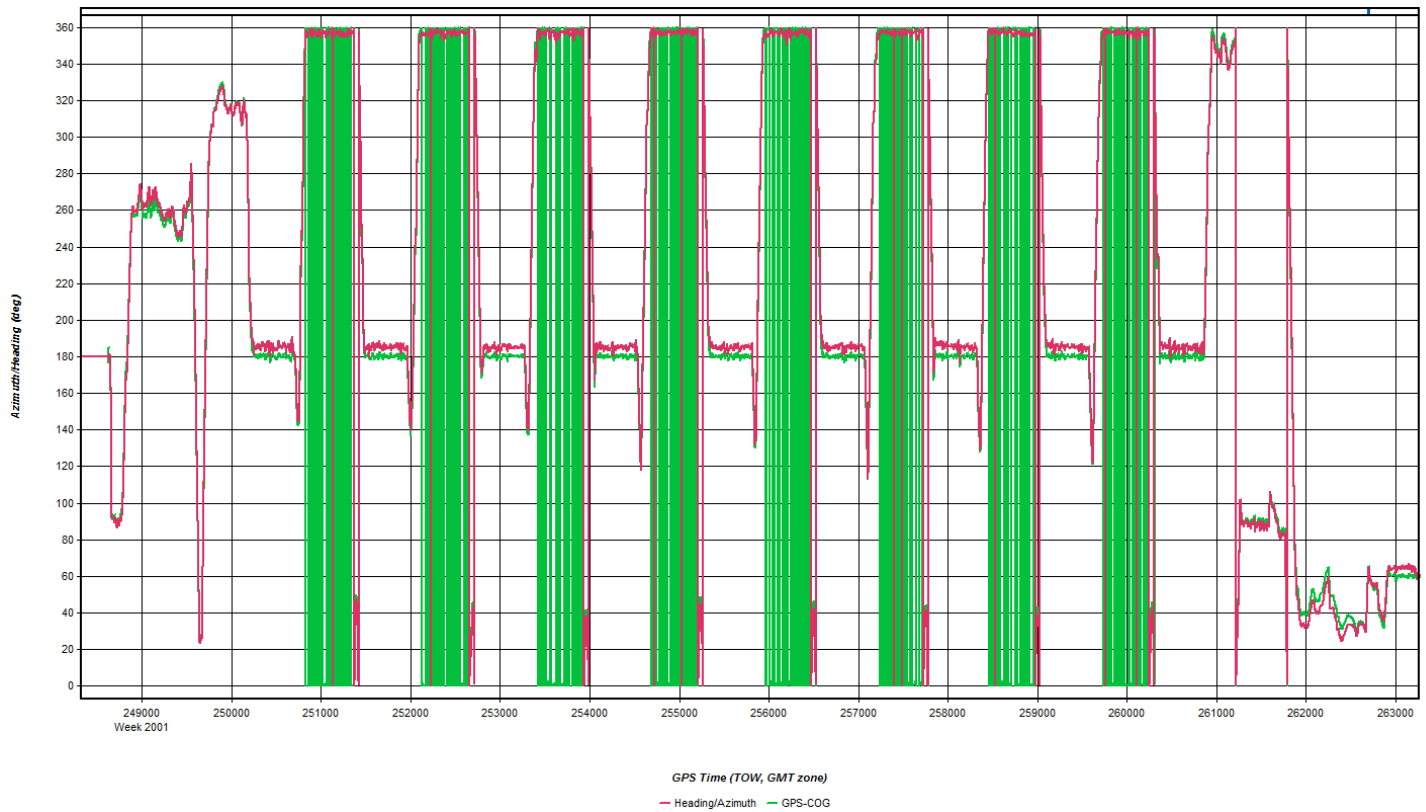


GPS Time (TOW, GMT zone)
 - Roll - Pitch









Master Remote

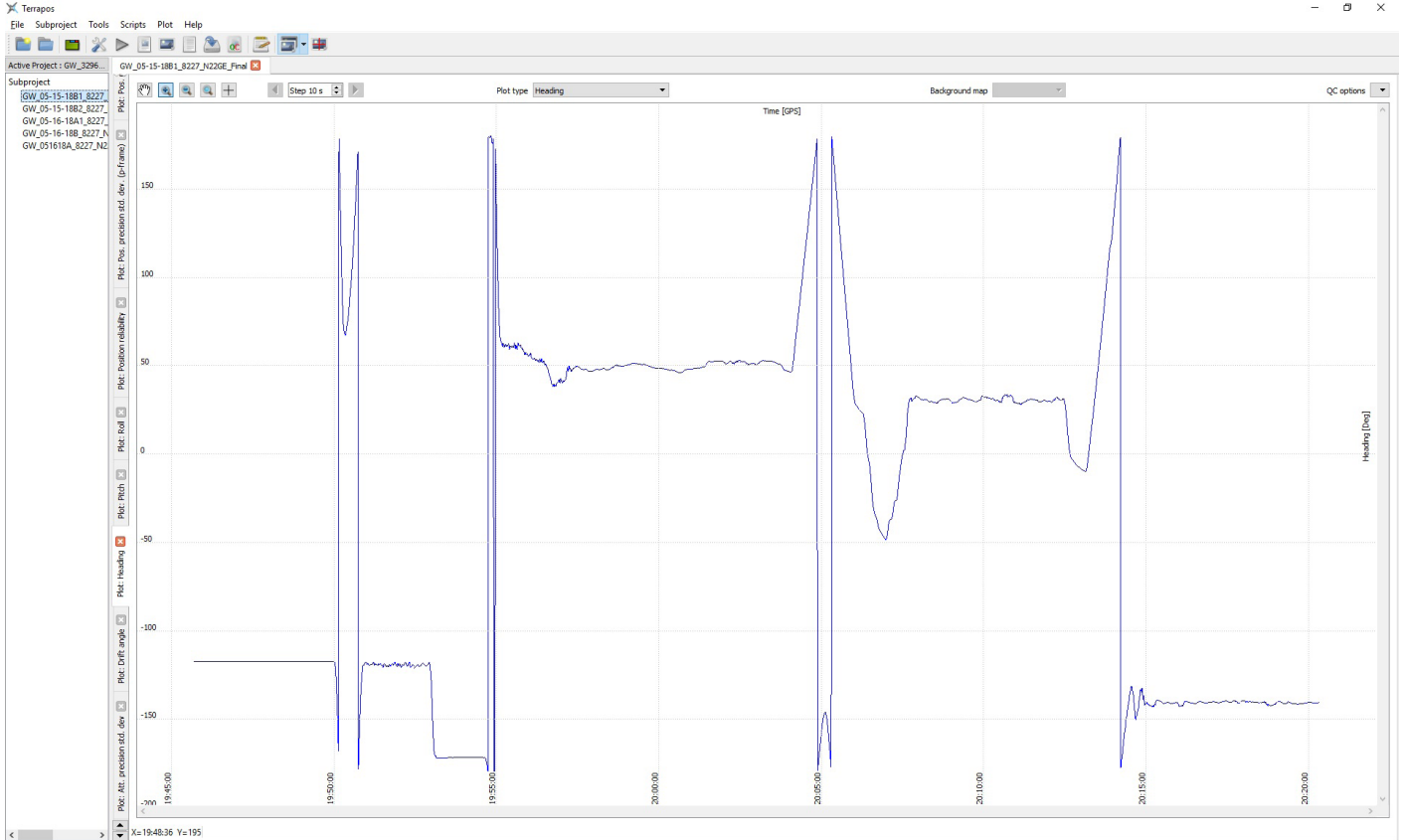
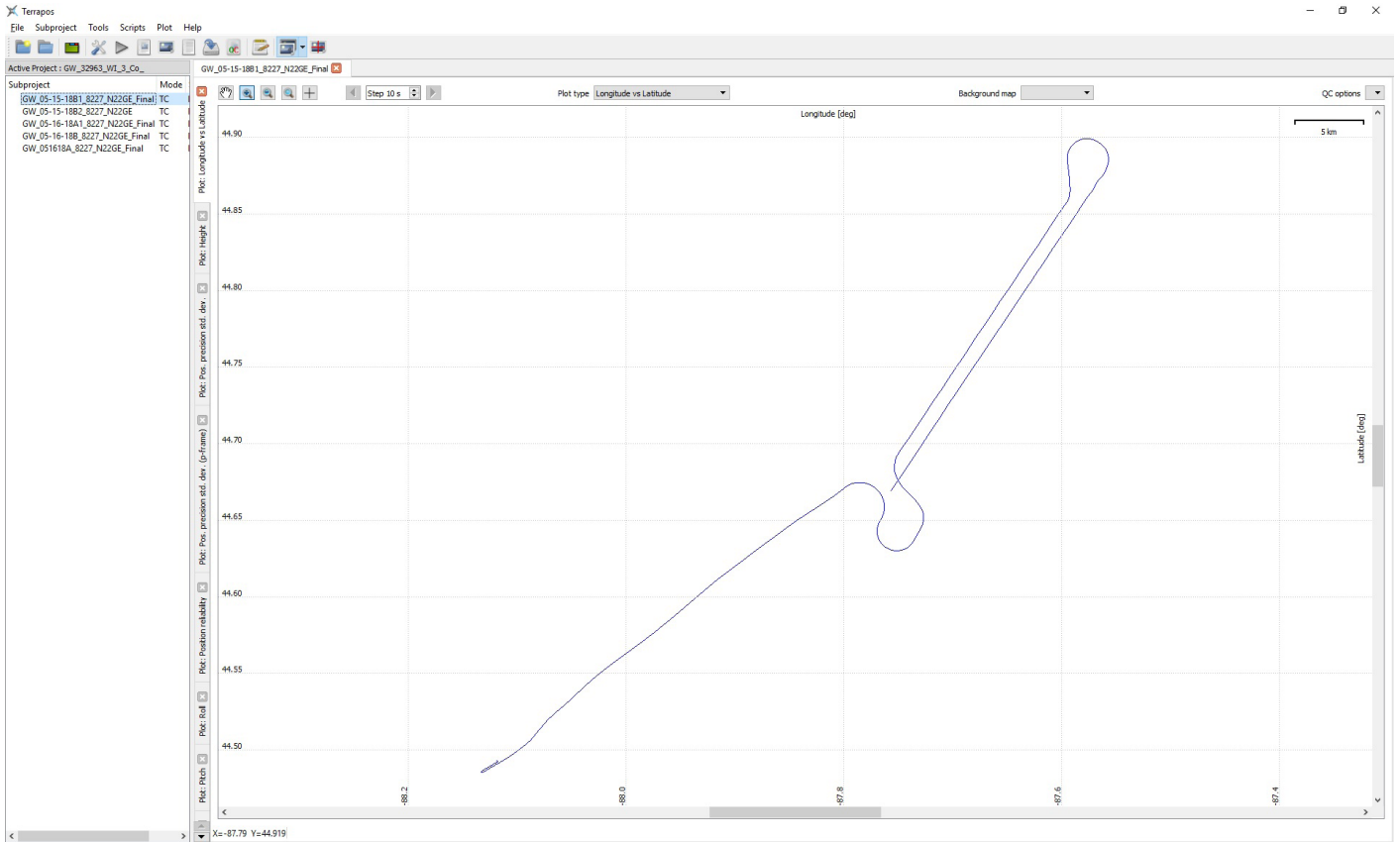
Base Station
 1: WIPR Name: WIPR Disabled
 File: E:\Proc\32963_WI_3_Co\Atlas_Geomatics_Recvd_5-21-18\QSI_Ma

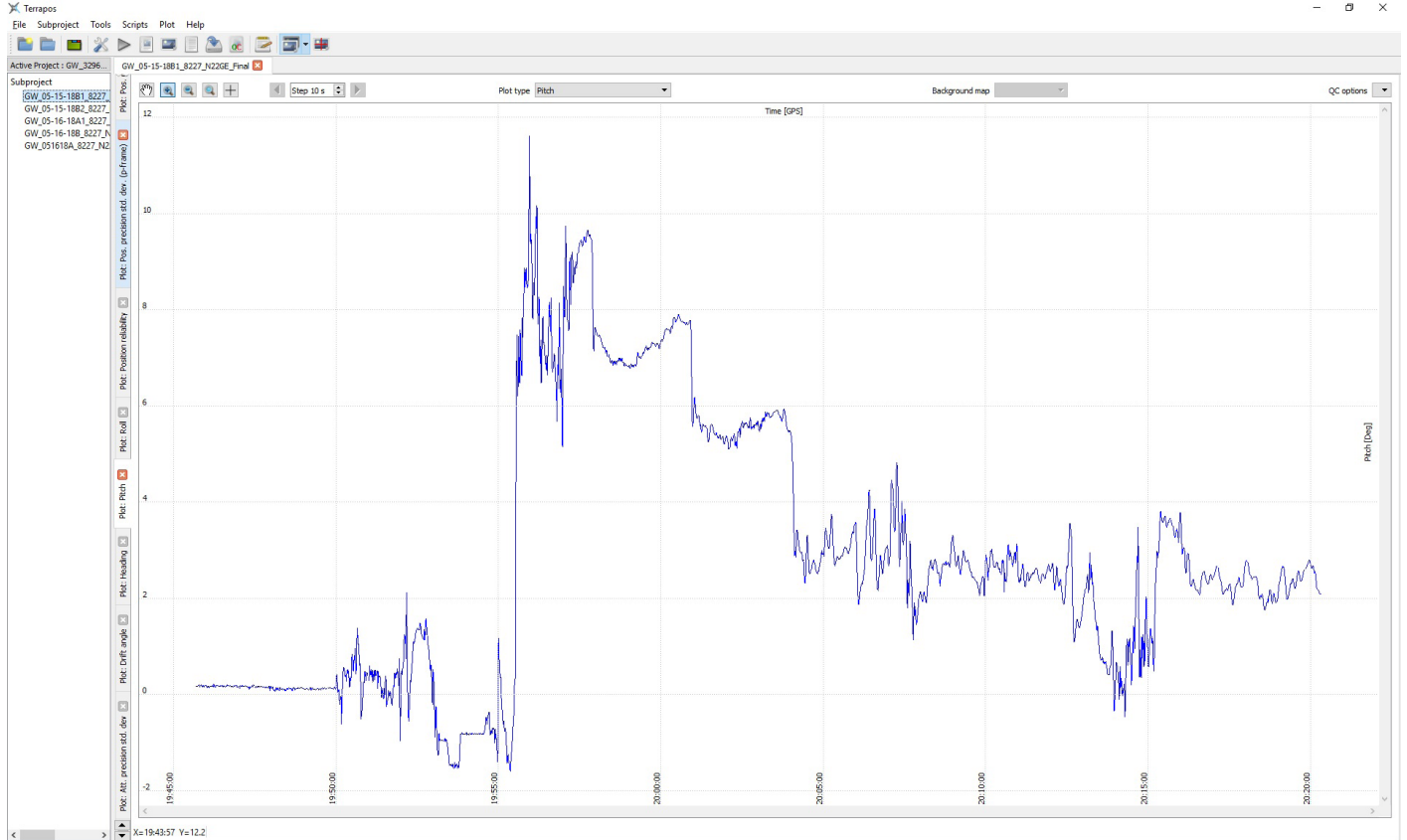
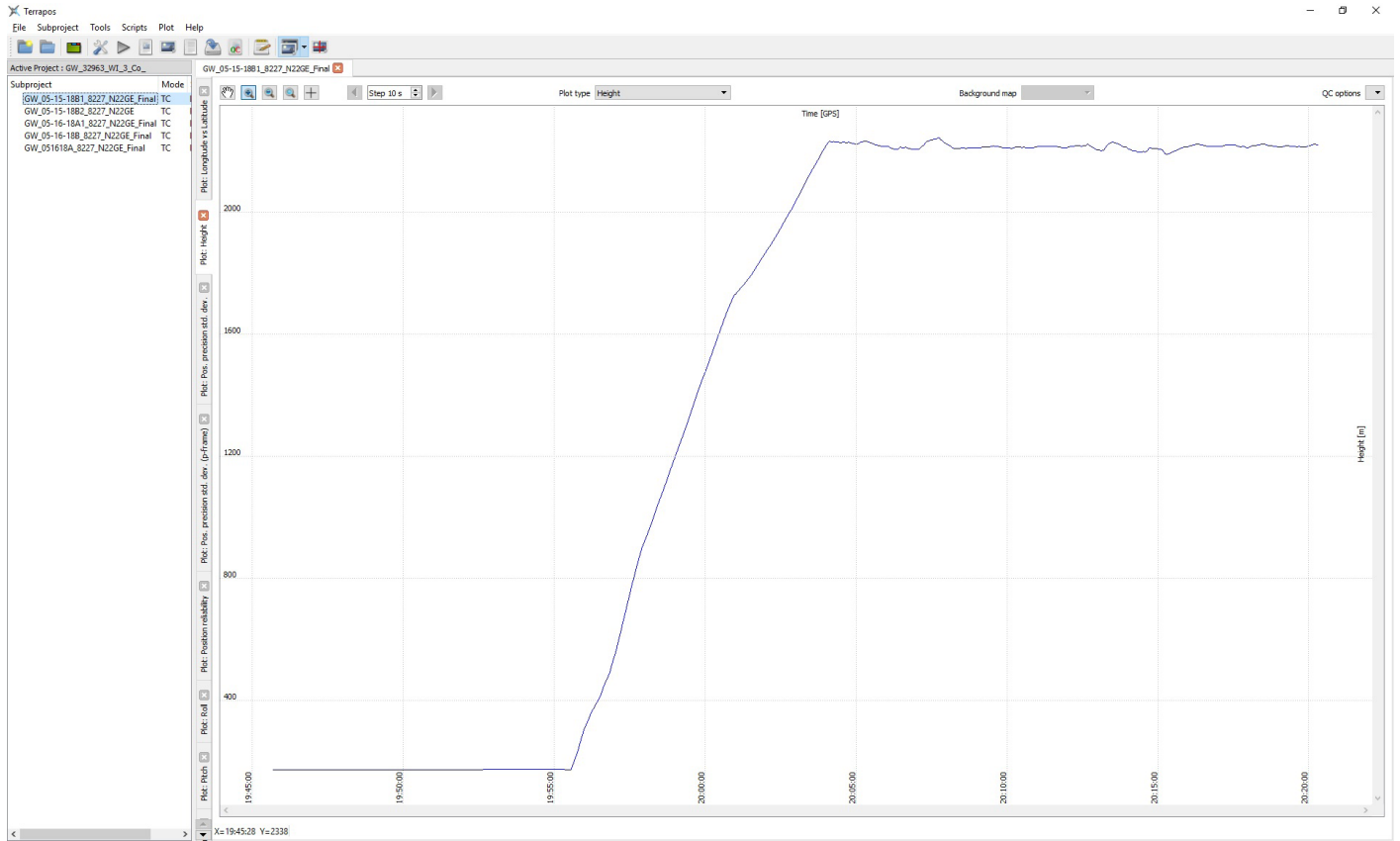
Coordinates
 Latitude: North 43 51 47.08208 Coord. options
 Longitude: West 89 08 32.31128 Save to Favorites
 Ellipsoidal height: 224.338 m
 Datum: WGS84 Proc Datum: WGS84
 Epoch: year

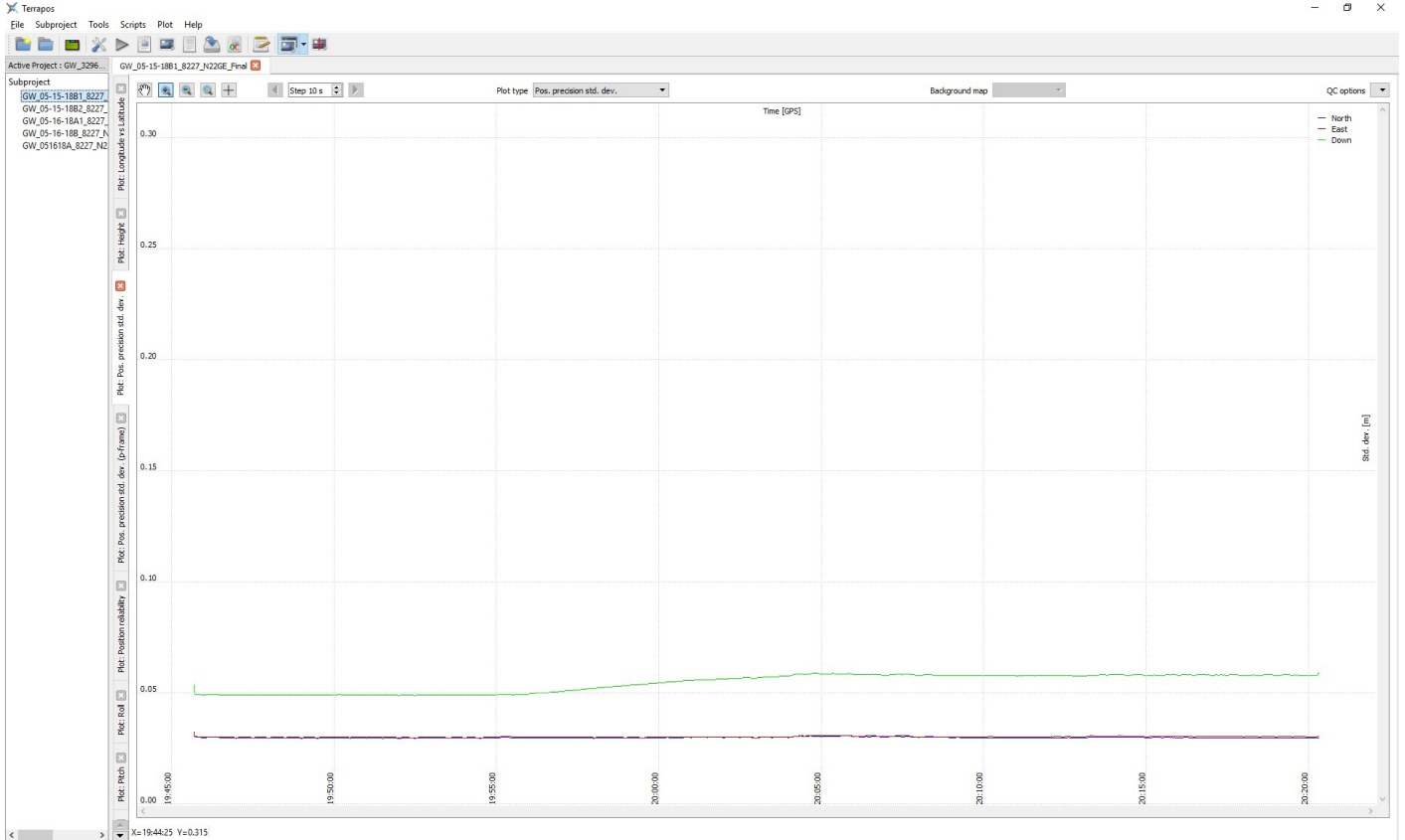
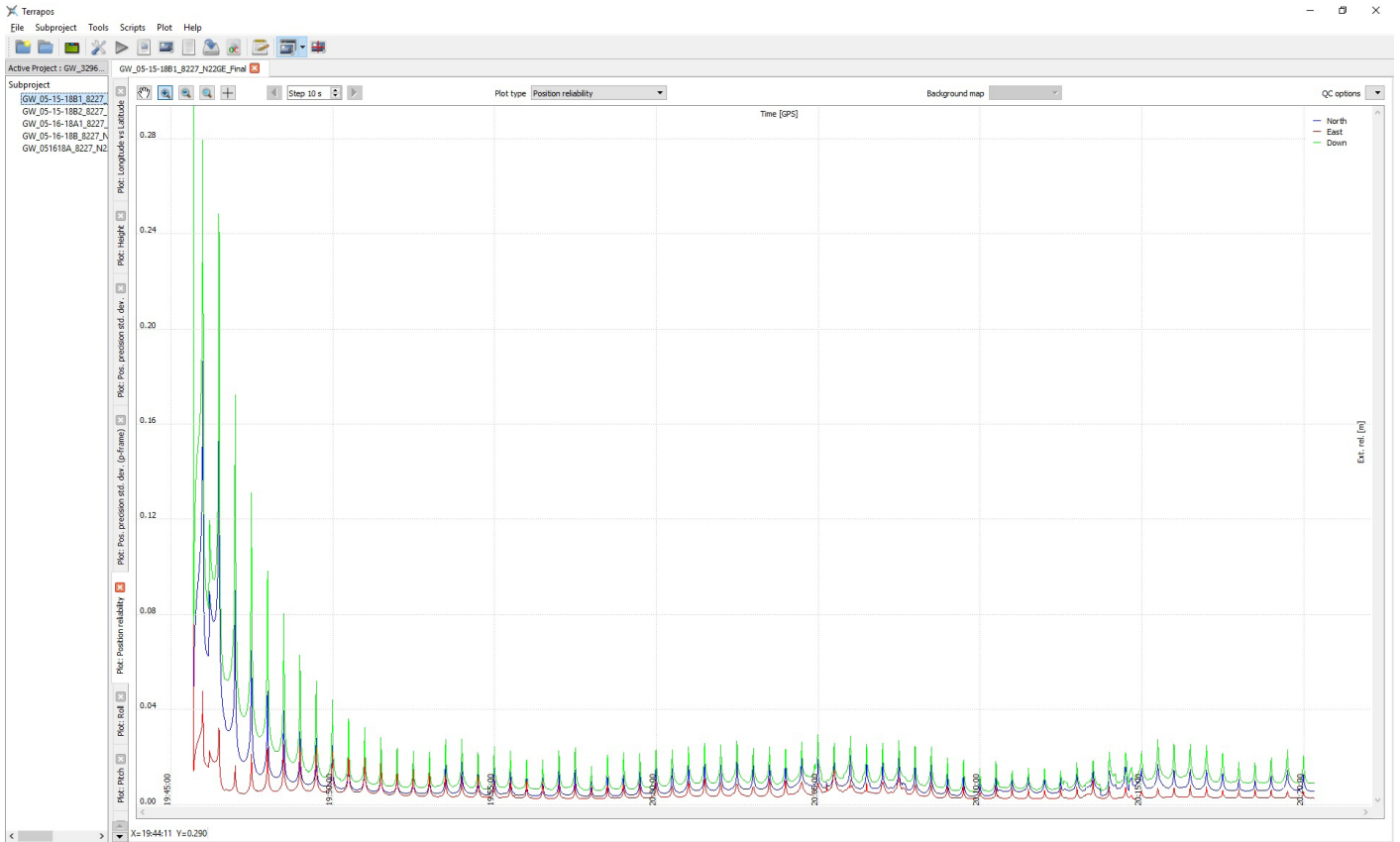
Antenna Height
 From station file: TRM57971.00, NONE View STA File
 Antenna profile: TRM57971.00 Info
 Measured height: 0.000 m Measured to
 ARP L1 Phase Centre
 ARP to L1 offset: 0.065 m Compute From Slant
 Applied height: 0.065 m

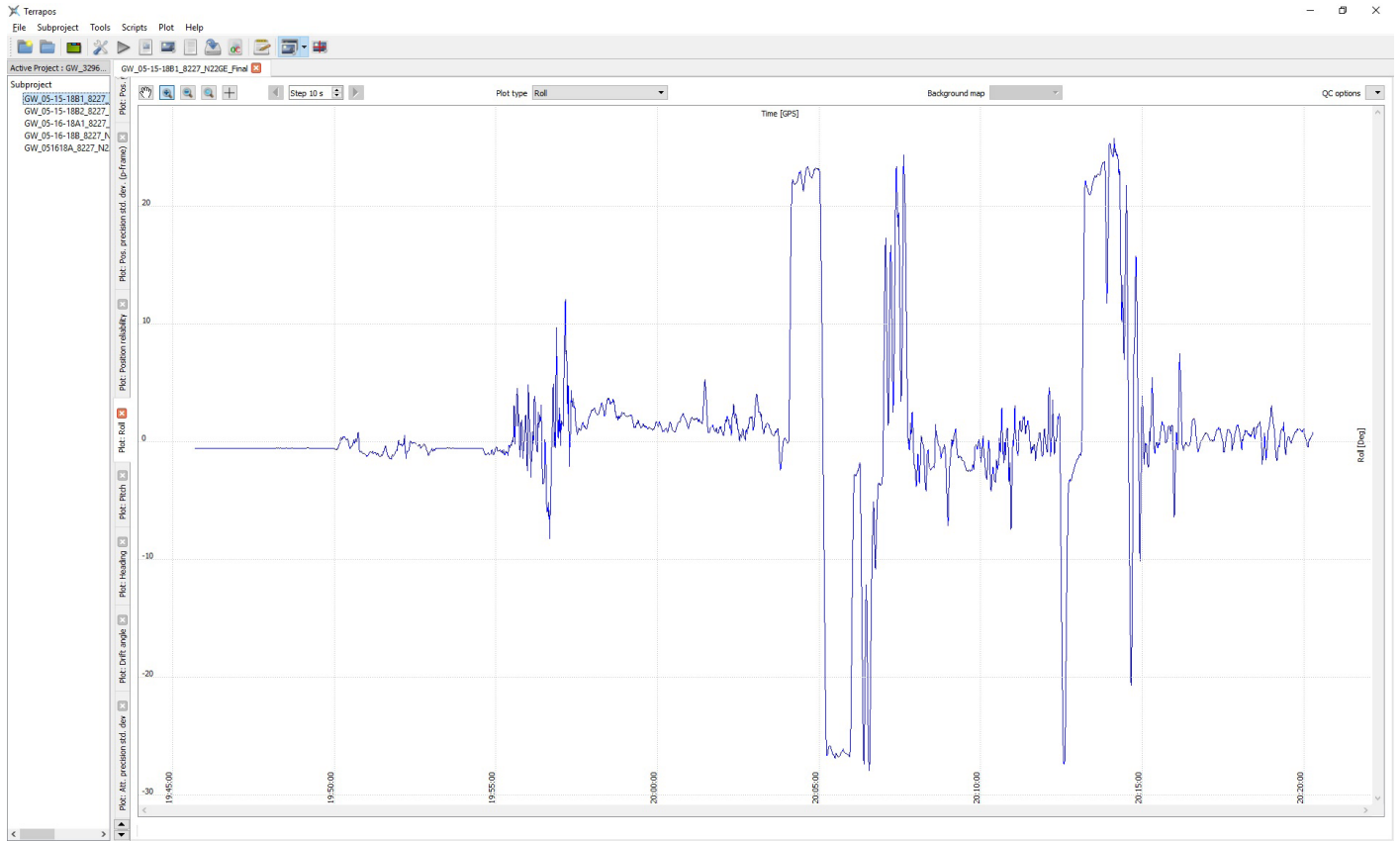
OK Cancel

May 15, 2018-B1 (SN8227, N22GE)









Flight Log

Project: Done Co. **Flight Mgmt File:** 201805194424_202320 **Date:** 5-15-18 Pg. 1 of 1

(email log daily to flight_log_distribution_list@quantumspatial.com)

Project #: 32963 **Pilot:** JAMON **Co-Pilot:** ALIST

Aircraft: 226E **Begin Hobbs:** 9573.3 **Total:** 2.1

Dep Apt: KGAR **Arr Time (Local):** 5:05Z **Arr Apt:** KSBM **Tot Time Aloft:** 22:05

CORS: Y/N **Sta 1:** Y/N **IF Y, times: Sta 1:** Sta 2: **IF Y, times: Sta 2:** Sta 2:

GPS Unit: Y/N **Sta 1:** Y/N **IF Y, times: Sta 1:** Sta 2: **IF Y, times: Sta 2:** Sta 2:

Gd Temp beg: 18 °C **End:** 20 °C **OAT beg:** 30.04 **end:** 30.04

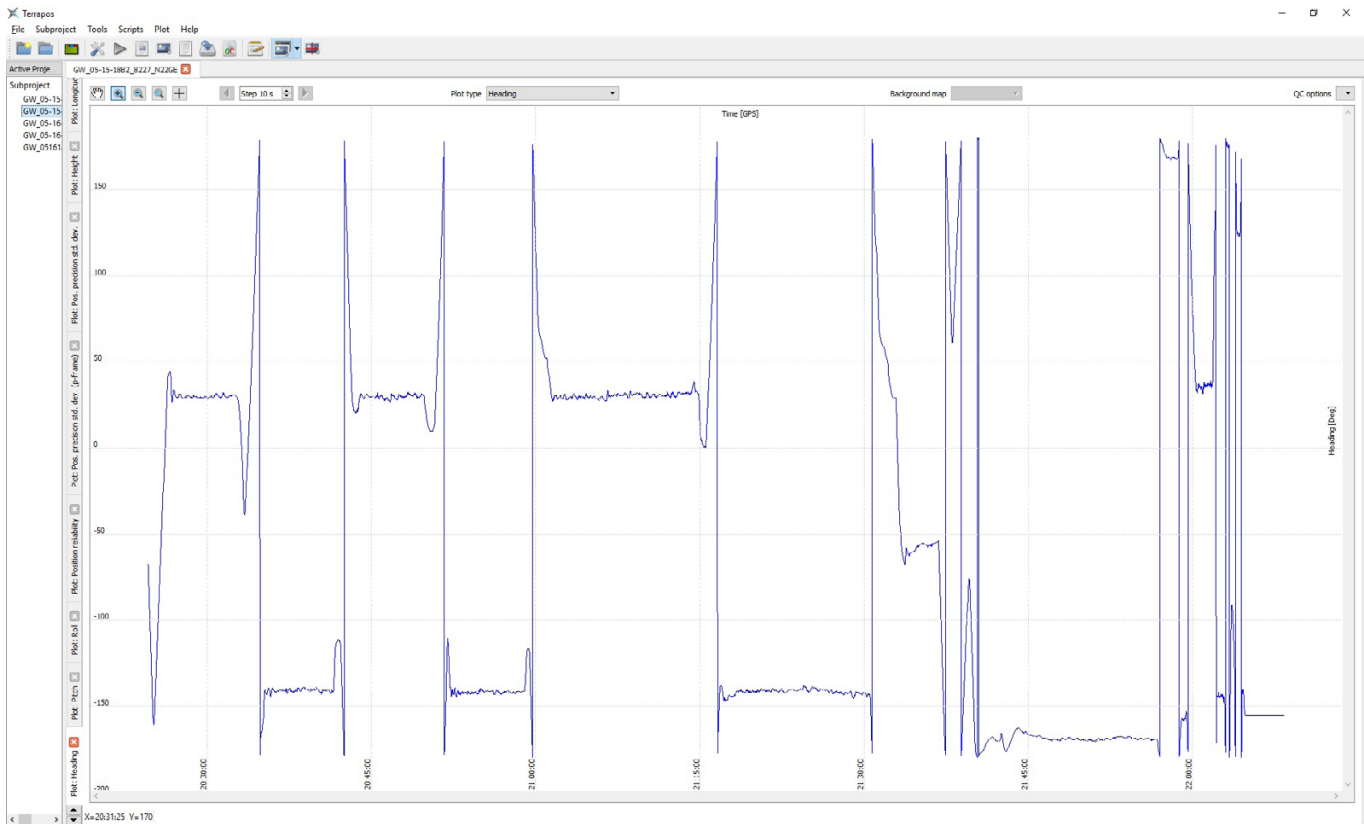
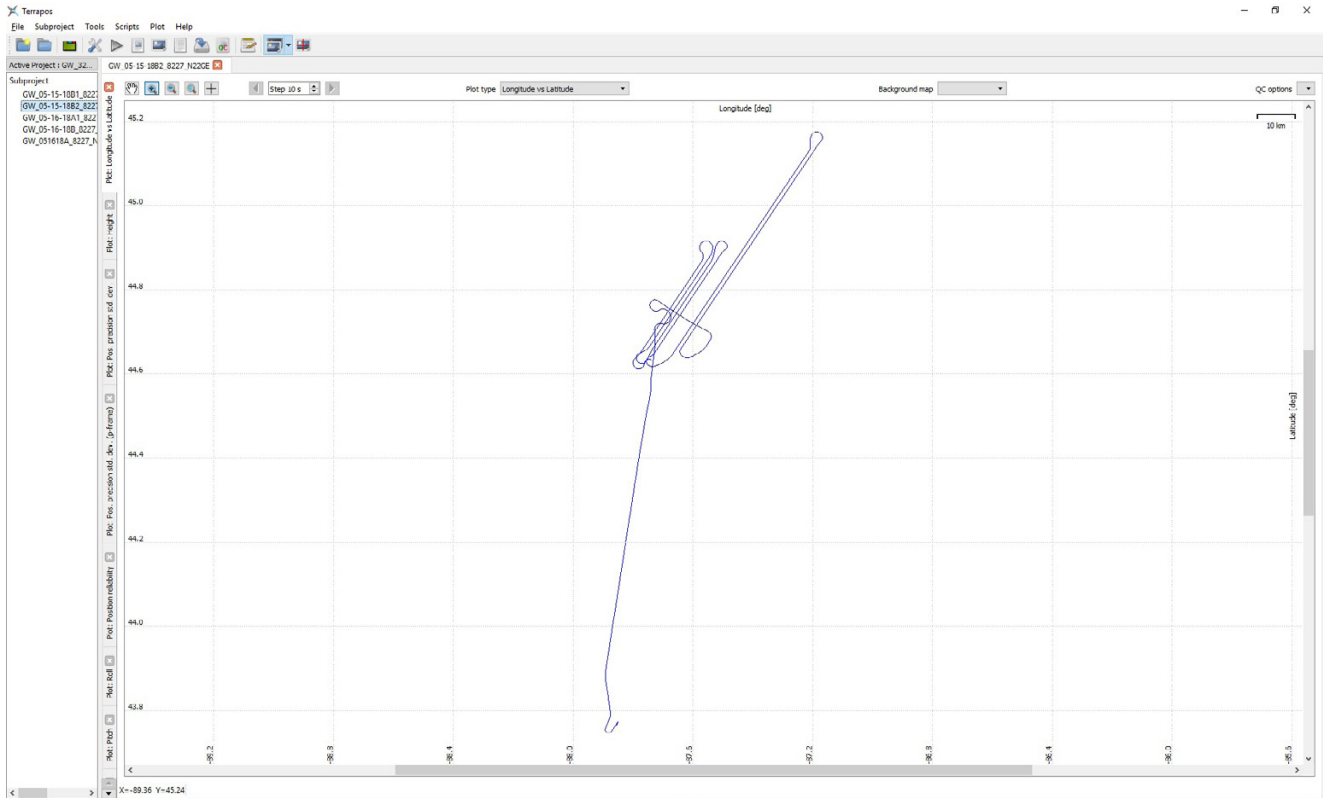
Type	ALS80	Serial #	End (UTC)	Gd Spd	Alt AGL	Alt AMSL	Pulses In Air	Mpi/Min	Pulse Rate	Max Gdspd	Power	Avg Pt Spacing	IFSM	Storage		
														Log GB	End GB	Tot GB
FOV	40	8227		50	7300				390	100				495	461	6

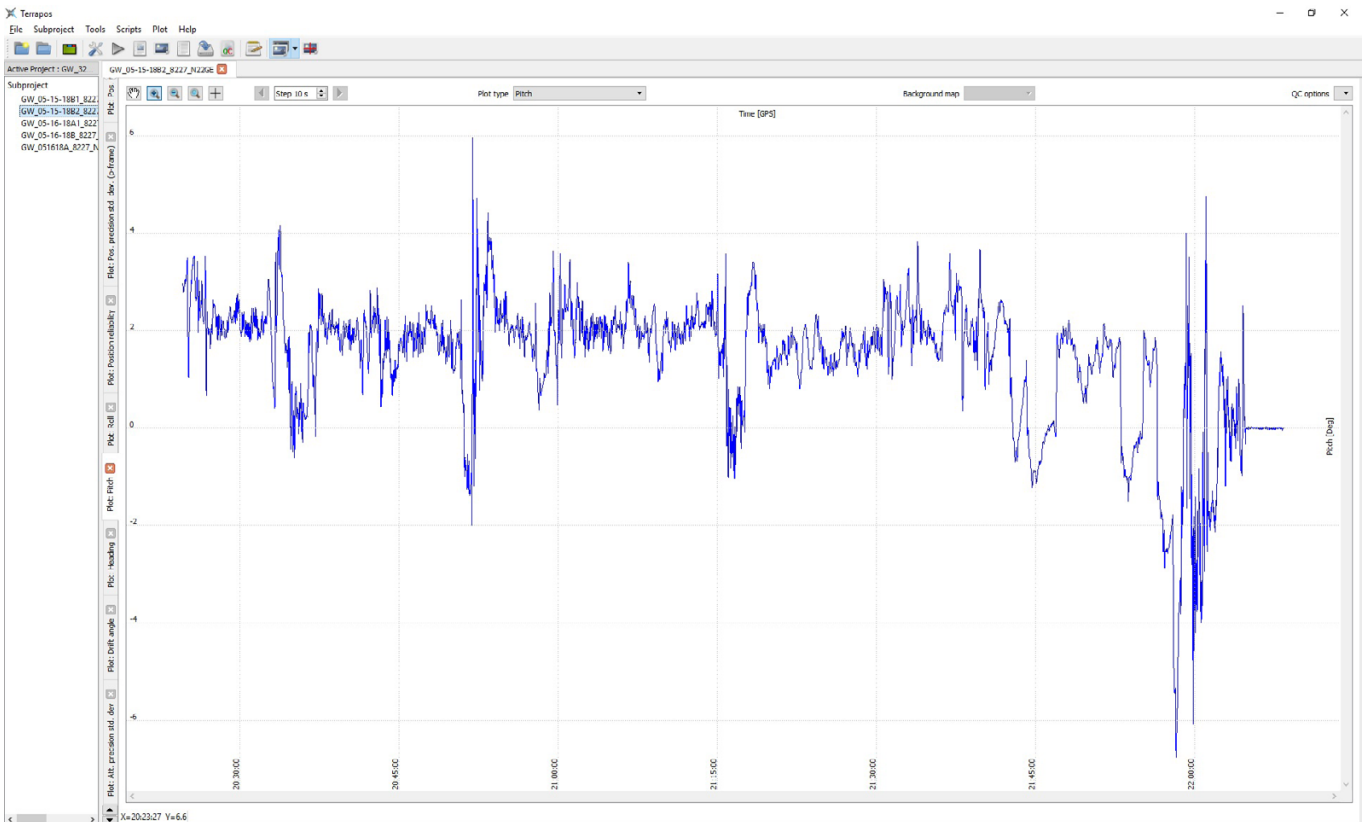
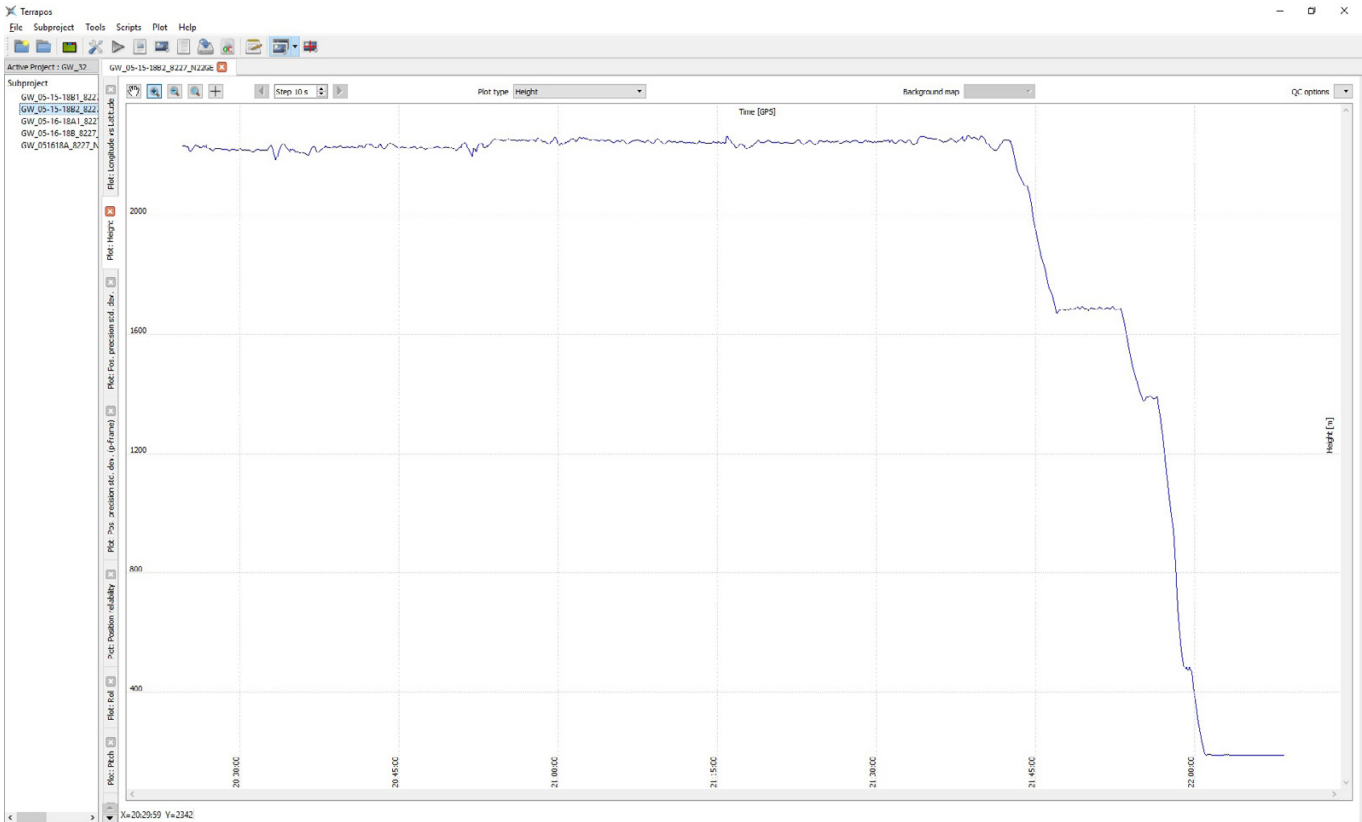
FLIGHT LINE NOTES - visibility, clouds, smoke, partial, etc.

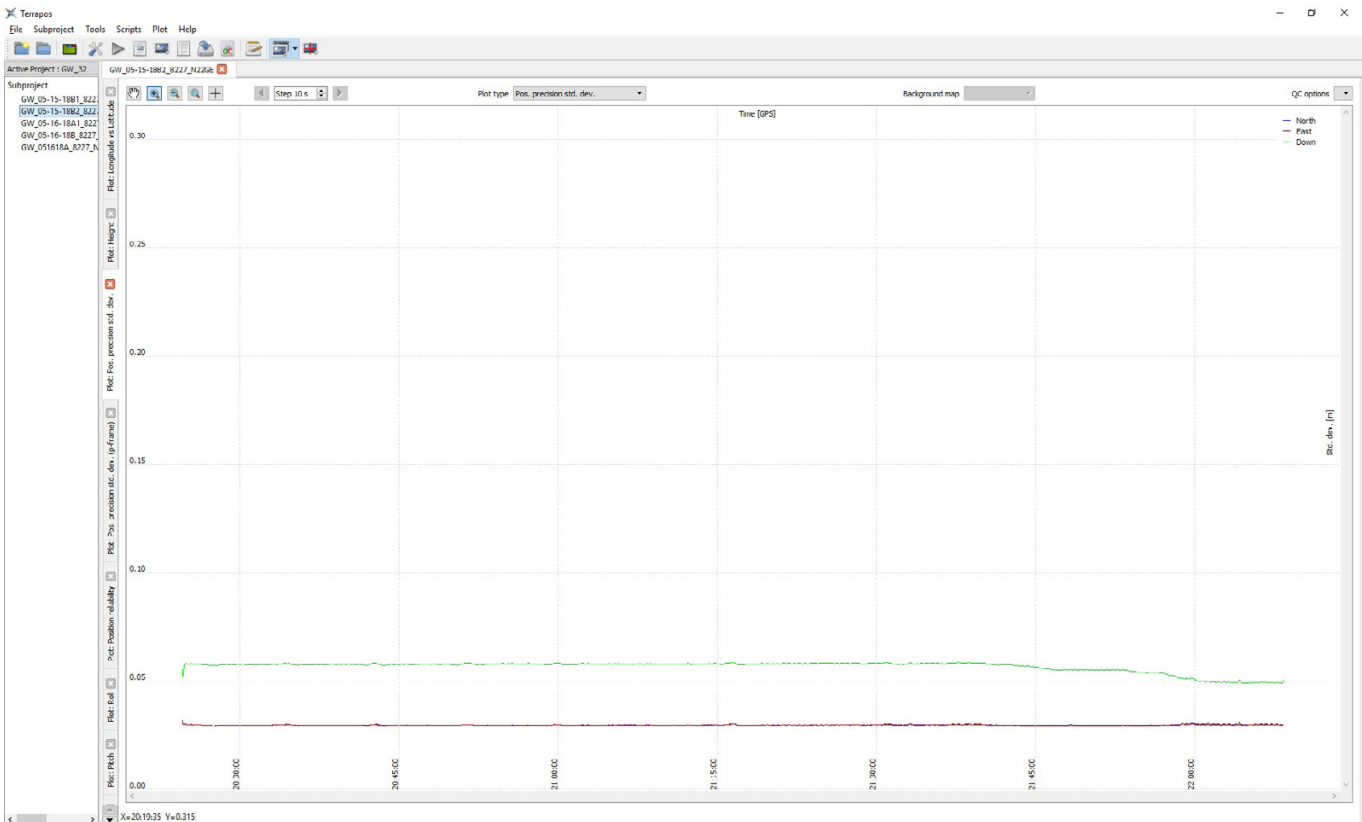
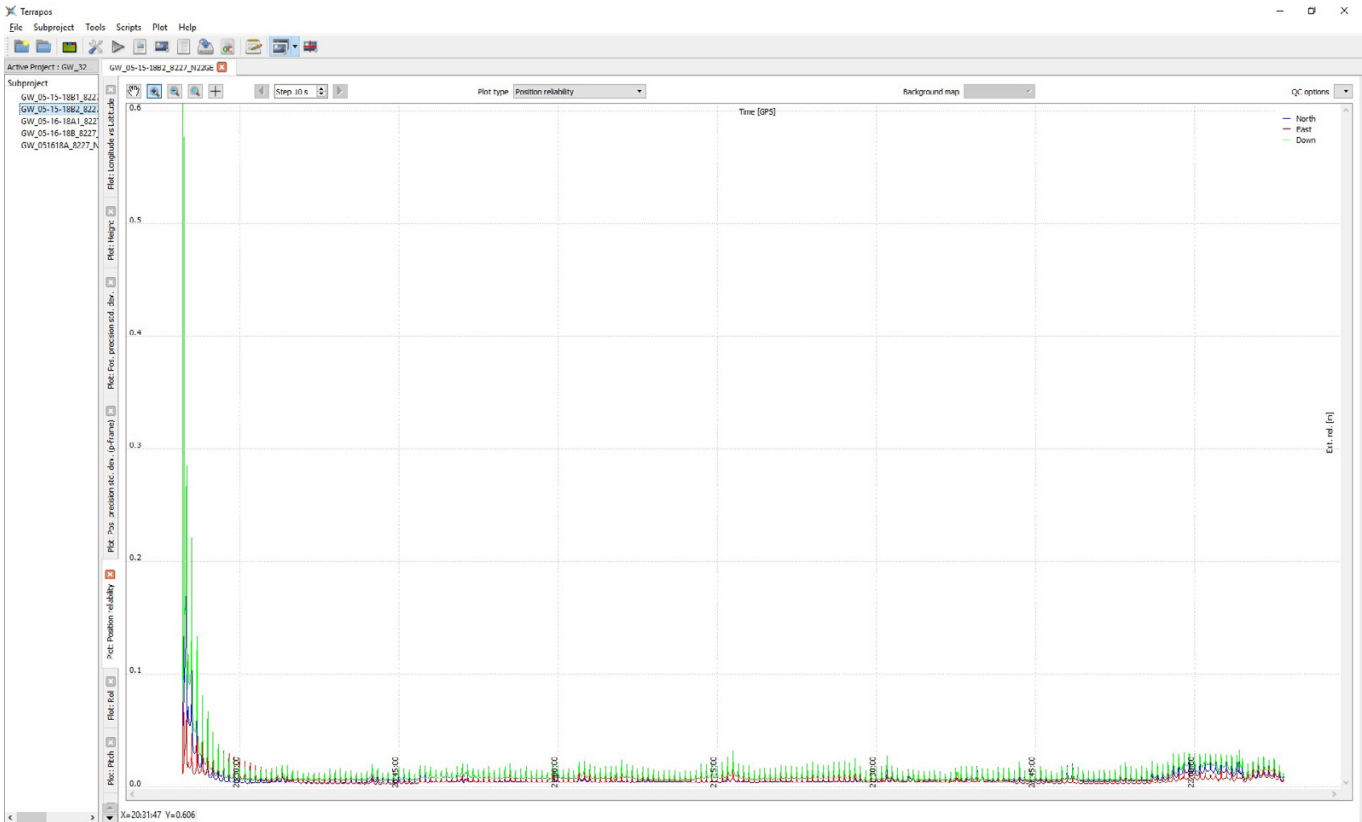
Line #	Hdg	Start (UTC)	End (UTC)	Gd Spd	POOP/sats	GPS Altitude	Crab	Turb (0..4)	Notes
005	33°	2008	2012	150	11/22	7240			
006	213°	2014		143	11/21	7180			RED ERROR - SC NOT RECEIVED PROPER TIME (IMIB) RETRACT AND REFLY LINE
006	33°	2027	2032	159	10/23	7260			
007	213°	2055	2041	144	10/23	7240			
008	33°	2044	2049	160	09/24	7300			
009	213°	2052	2058	135	10/23	7340			
013	33°	2101	2115	157	10/23	7360			
014	213°	2117	2130	150	11/23	7310			
04001	305°	2133	2136	147	11/22	7400			MANUAL X-TIE
									Hazy - ALL LIET

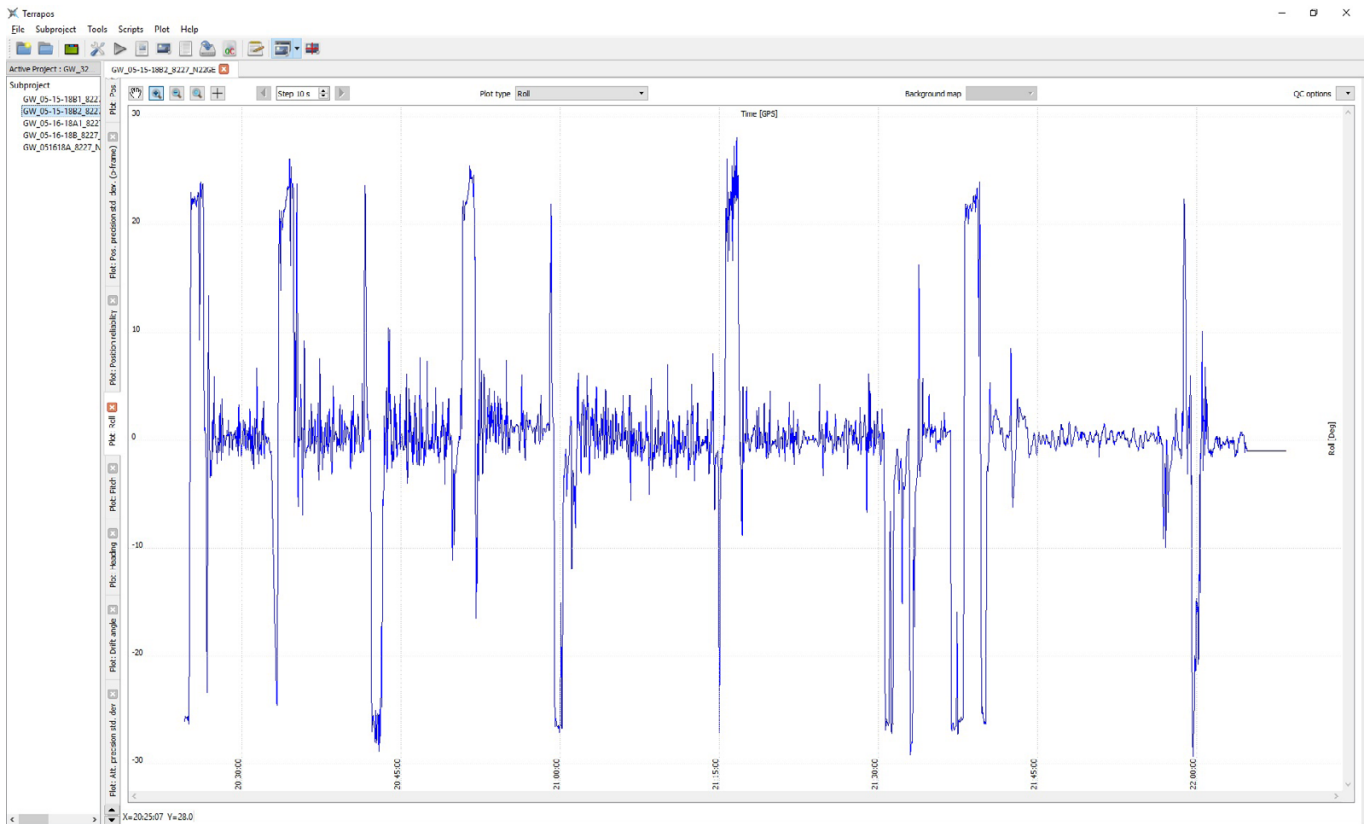
Total Proj Lines: 16 **Lines Flown:** 15 **Lines Remain:** 1 **Online Time:** 1:5 **Job Time:** 1:6 **Notes:**

May 15, 2018-B2 (SN8227, N22GE)









Flight Log

Project: Done Co. **Flight Mgmt File:** 201805194424_202320 **Date:** 5-15-18
(email log daily to flight_log_distribution_list@quantumspatial.com) **Page 1 of 1**

Project #: 32963 **Pilot:** JAMON **Tech:** AKST
Begin Hobbs: 9573.3 **Total:** 2.1 **Co-Pilot:**

Dep Apt: KGAR **Dep Time (Lcl):** 2:45 (Z) **Arr Apt:** KSBM **Arr Time (Local):** 5:05 (Z) **Tot Time Aloft:**

CORS: Y/N **Sta 1:** **Sta 2:** **Flyovers:** Y/N **IF Y, times:** Sta 1 **Sta 2**

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

Gd Temp beg: 18 °C **End:** 20 °C **OAT beg:** °C **End:** °C **Altimeter begin:** 30.04 **end:** 30.04 **Storage Name:** z

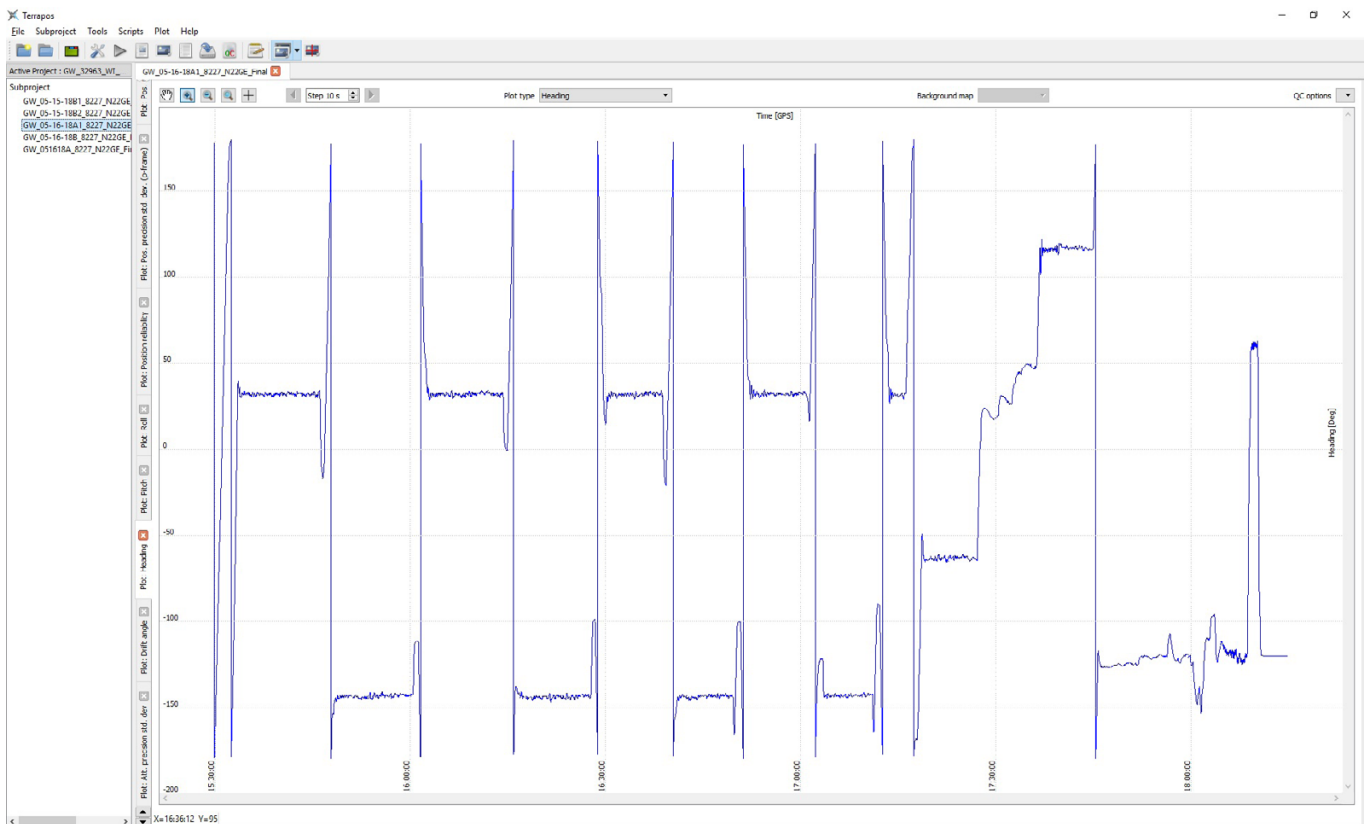
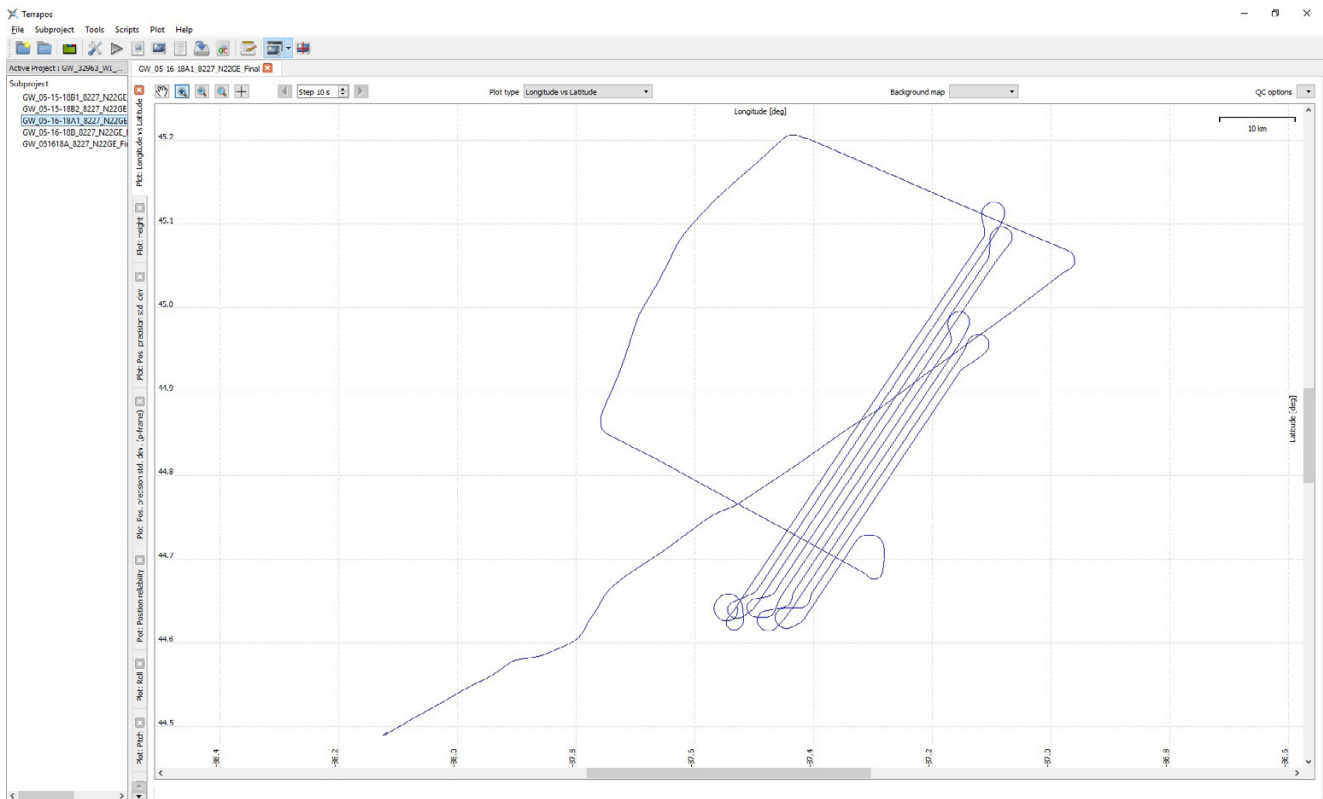
Line #	Type	Hdg	Start (UTC)	End (UTC)	Gd Spd	MOF/sats	GPS Altitude	Crab	Turb (0..4)	Alt AMSL	7300'	Pulses In Air	Alt AGL	Series #	Scan Freq	FOV	LIDAR	Max Gdspd	Power	PFSM	Avg Pt Spacing	Pulse Rate	390	100	30.04	495	461	z		
																													Max Gdspd	Power
005		33°	2008	2012	150	11/22	7240																							
006		213°	2014		143	11/21	7180																							
006		33°	2027	2032	159	10/23	7260																							
007		213°	2055	2041	144	10/23	7240																							
008		33°	2044	2049	160	09/24	7300																							
009		213°	2052	2058	135	10/23	7340																							
013		33°	2101	2115	157	10/23	7360																							
014		213°	2117	2130	150	11/23	7310																							
04001		305°	2133	2136	147	11/22	7400																							

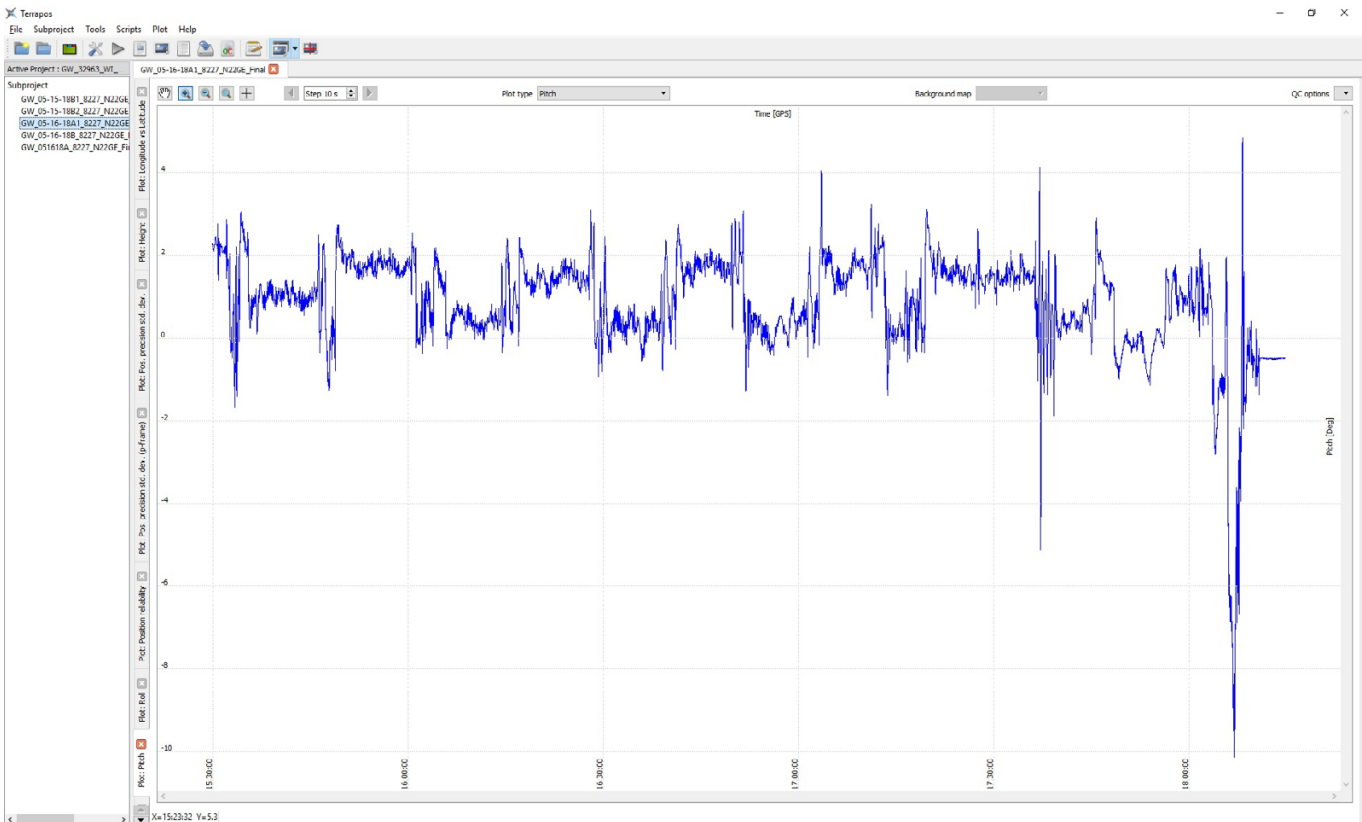
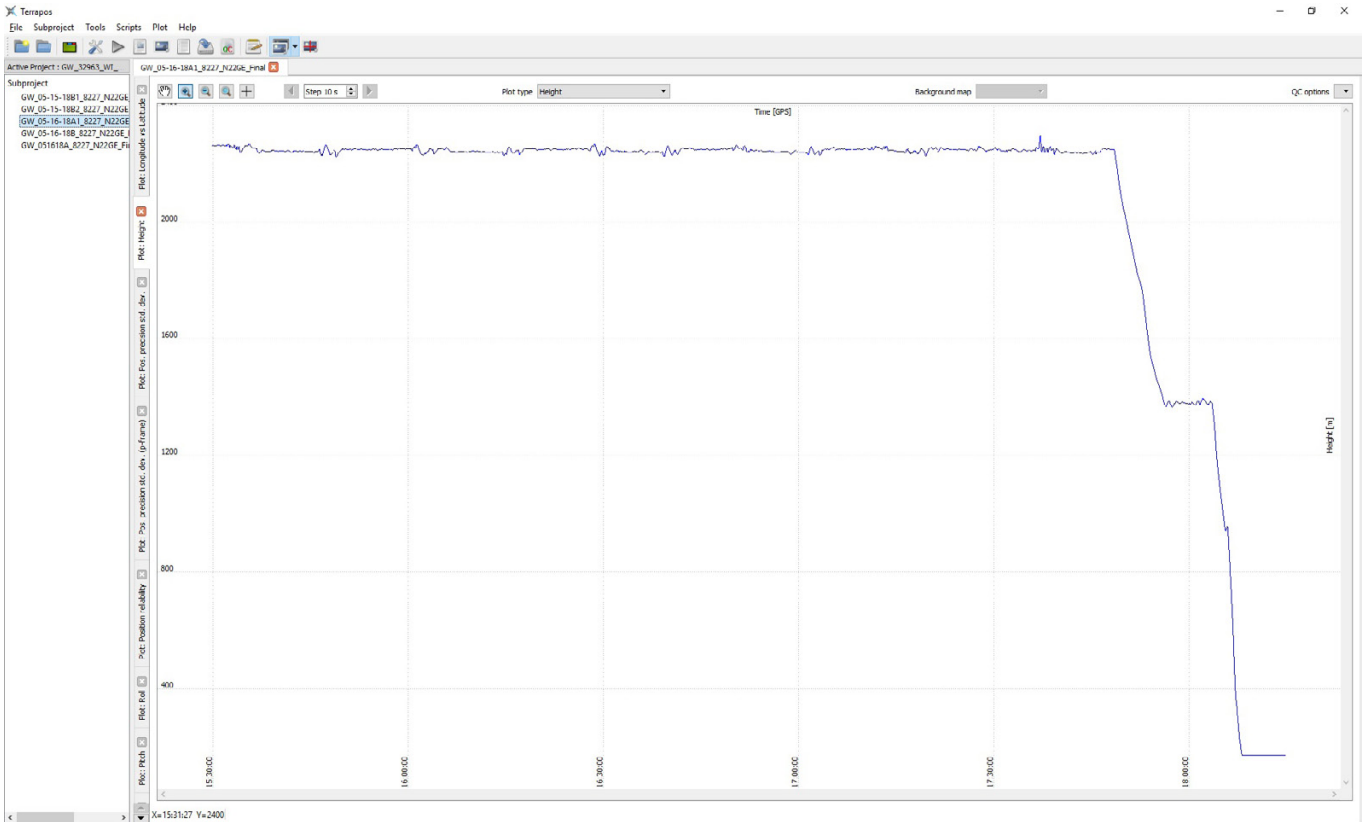
FLIGHT LINE NOTES - visibility, clouds, smoke, partial, etc.

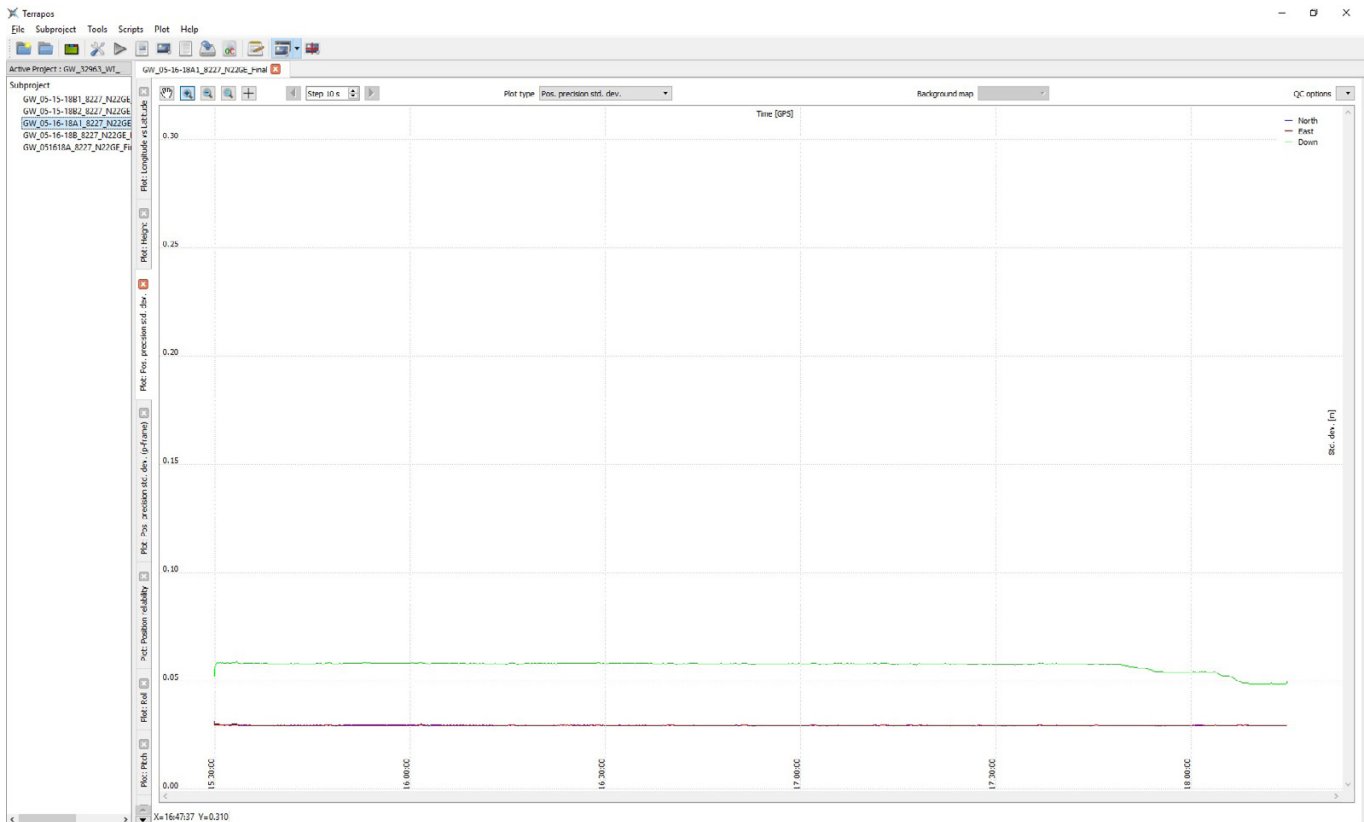
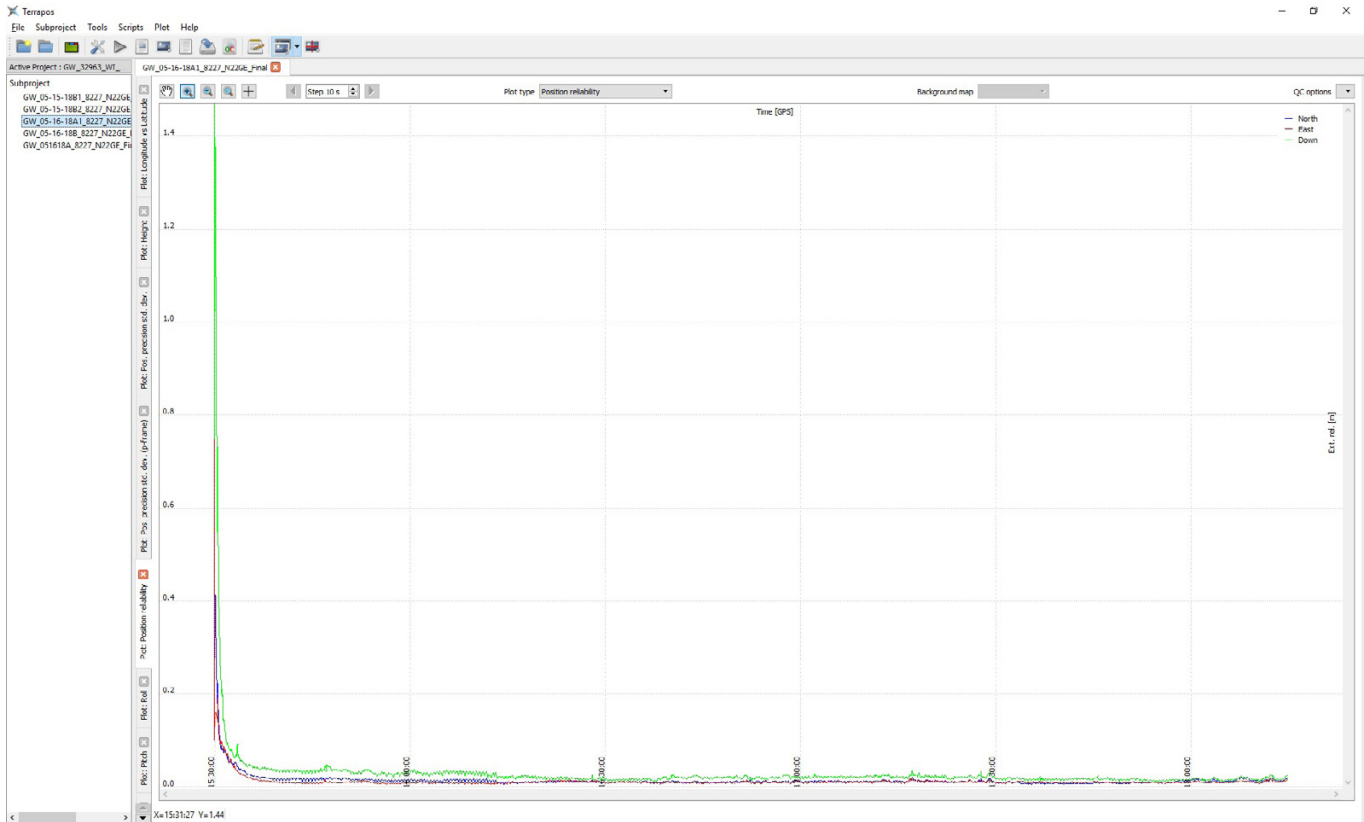
RED ERROR - SC NOT RECEIVED PROPER TIME (IMIB)
 RESTRACT AND REFLY LINE
 MANUAL X-TIE
 Hazy - ALL LIET

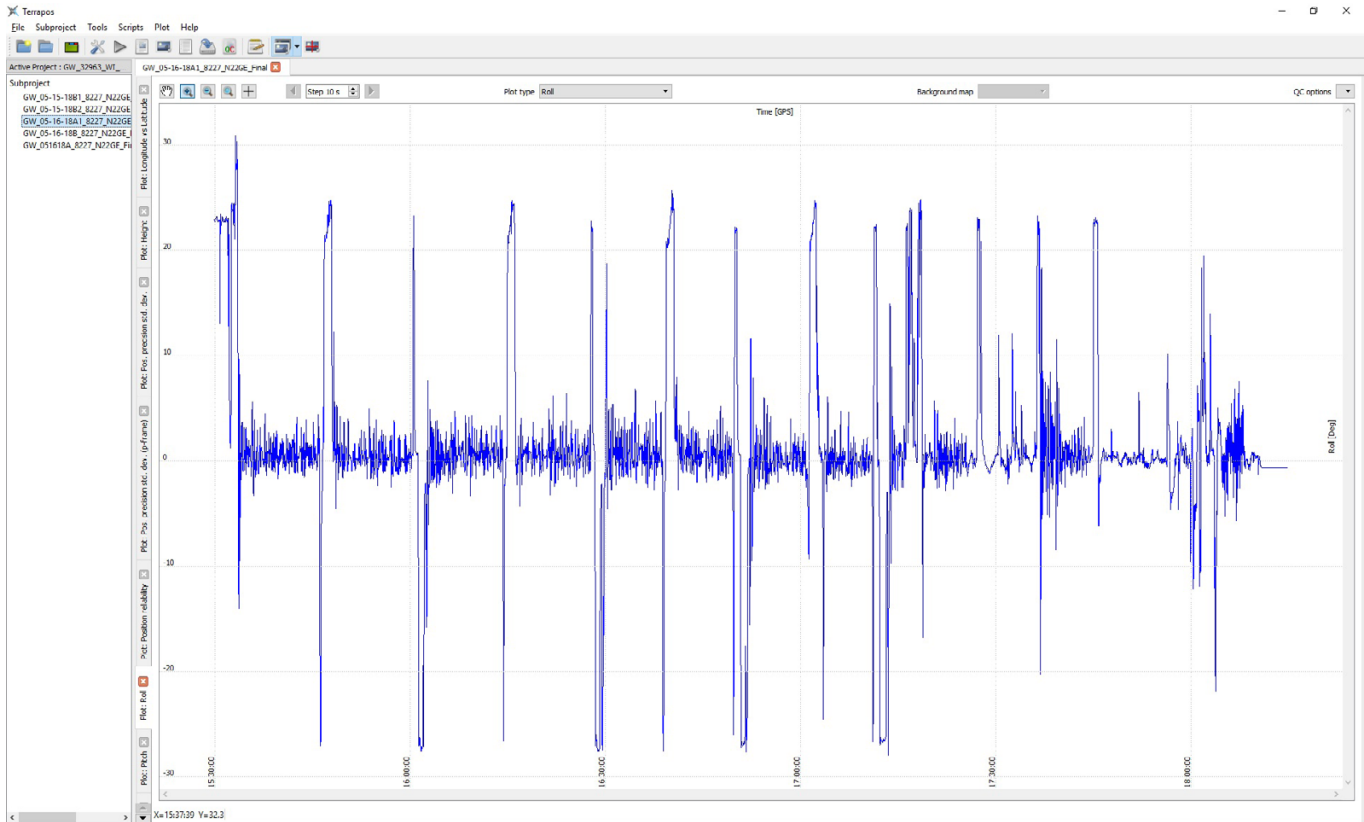
Total Proj Lines:	Lines Flown:	Lines Remain:	Online Time: <u>1.5</u>	Job Time: <u>1.6</u>	Notes:
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May 16, 2018-A1 (SN8227, N22GE)

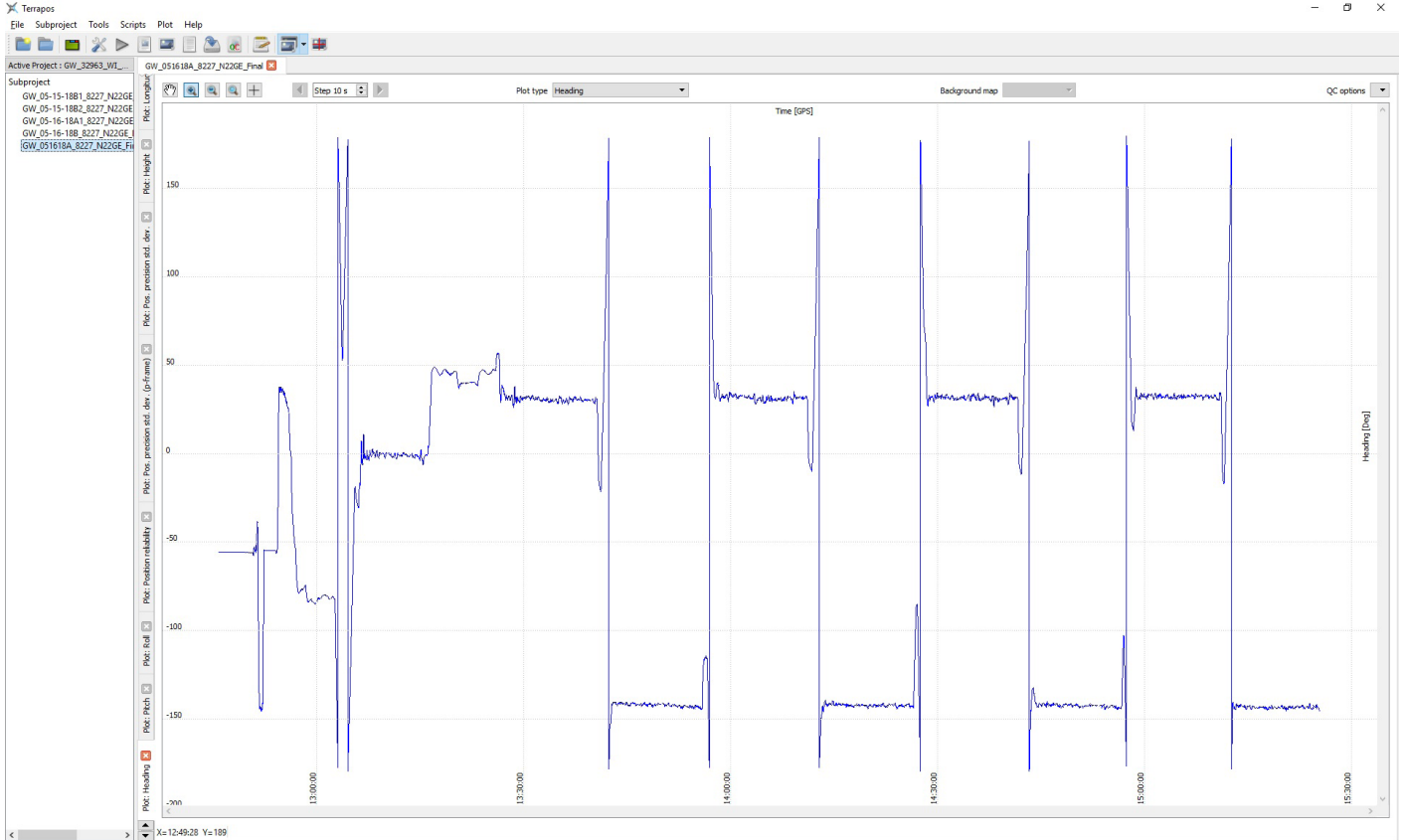
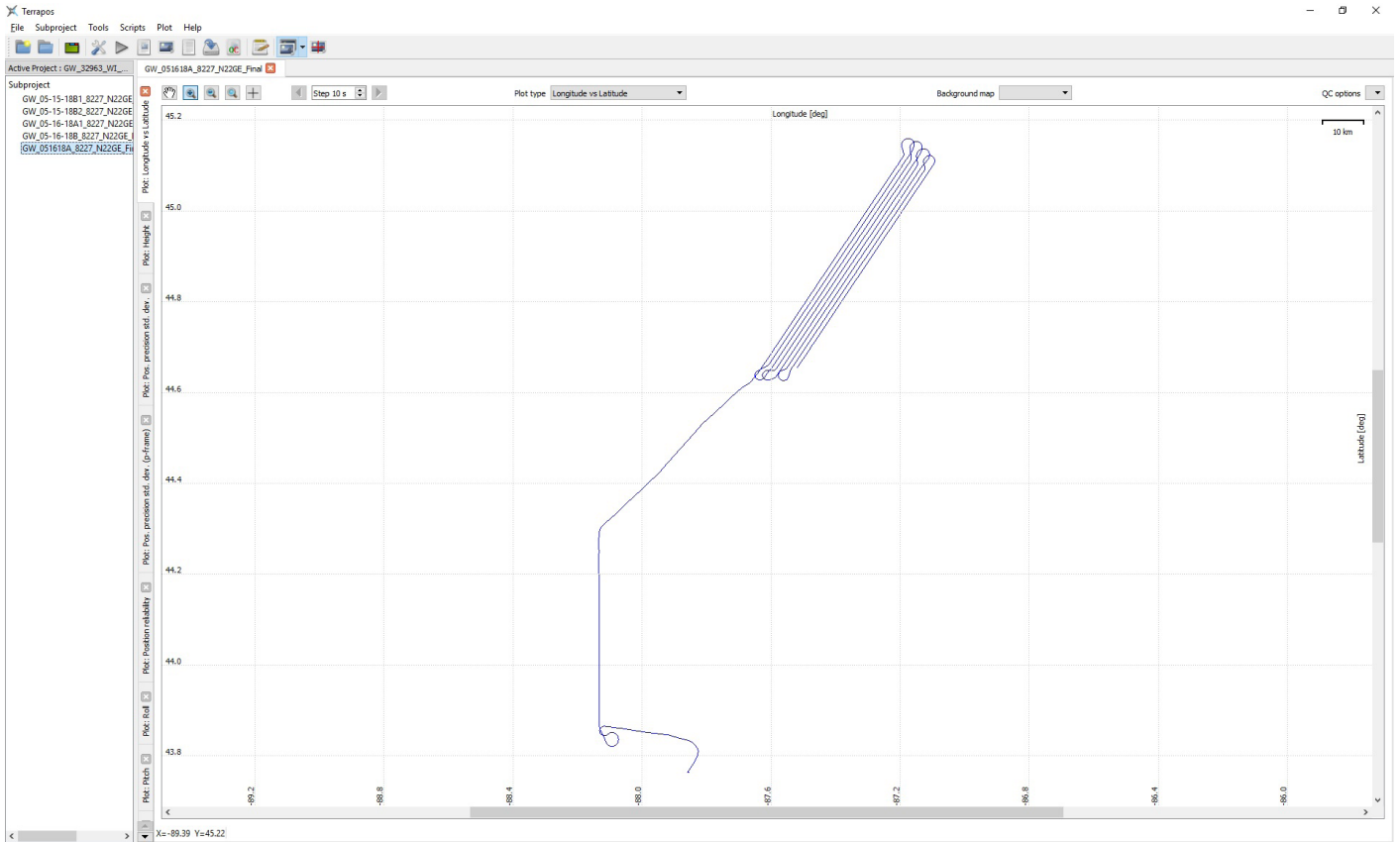


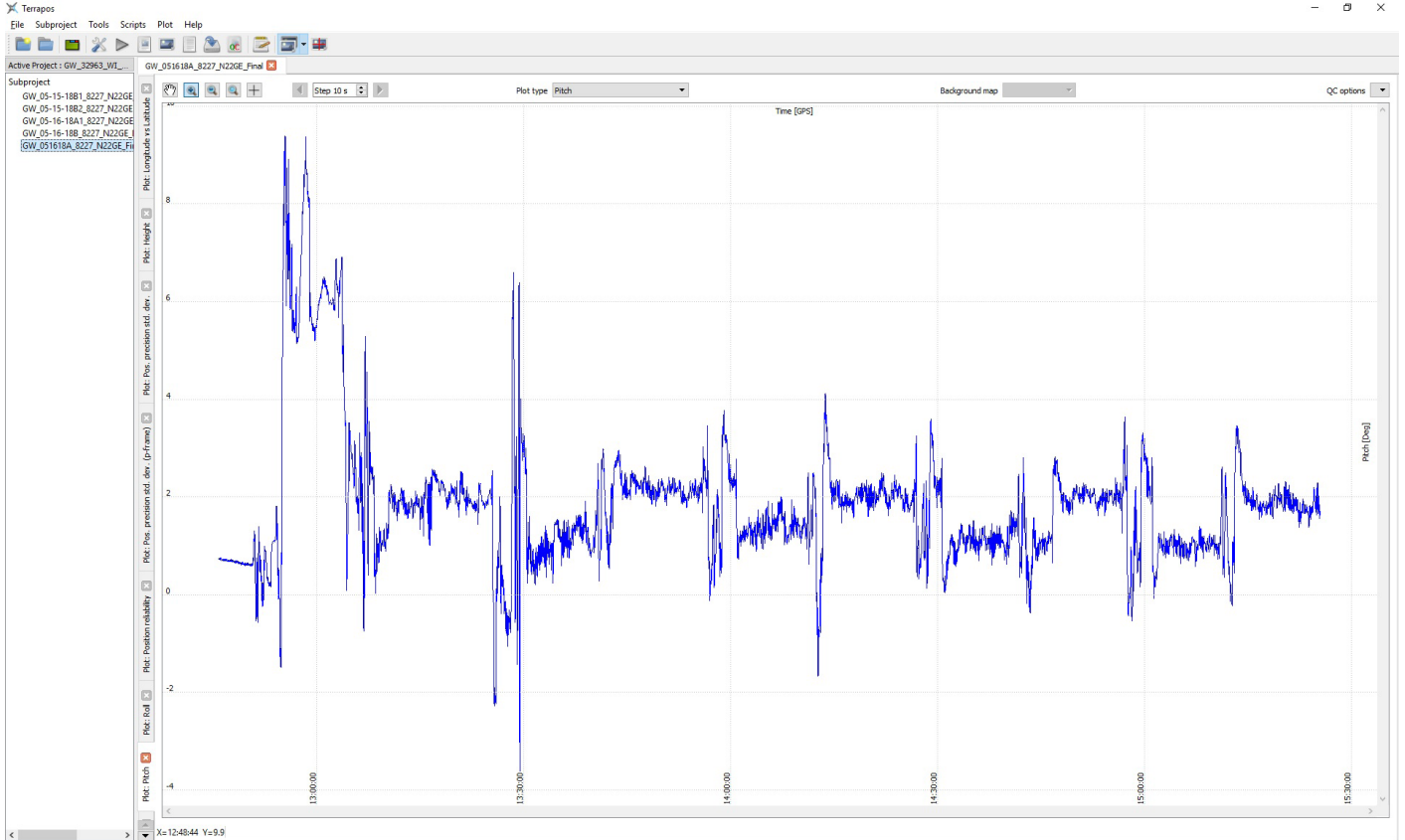
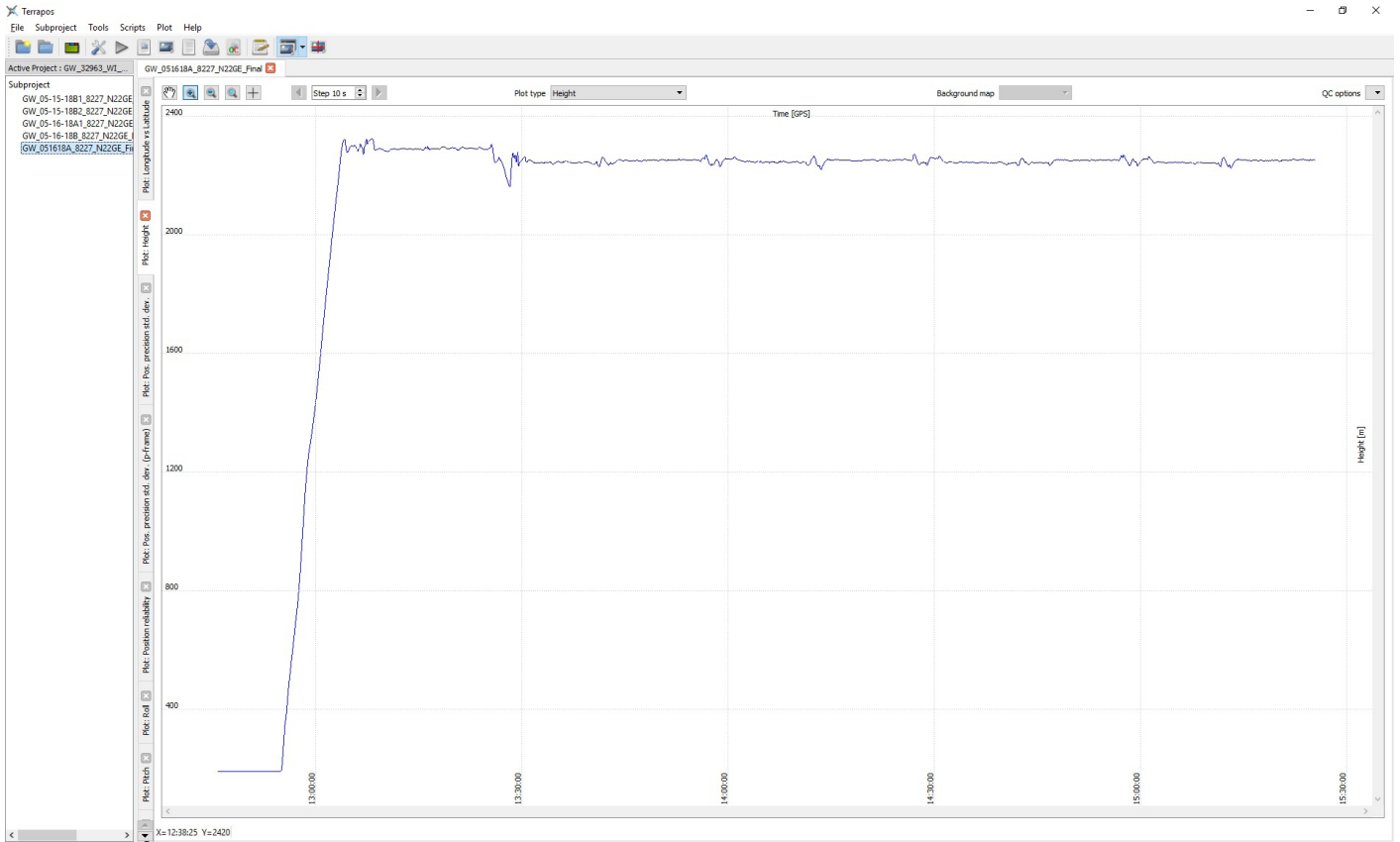


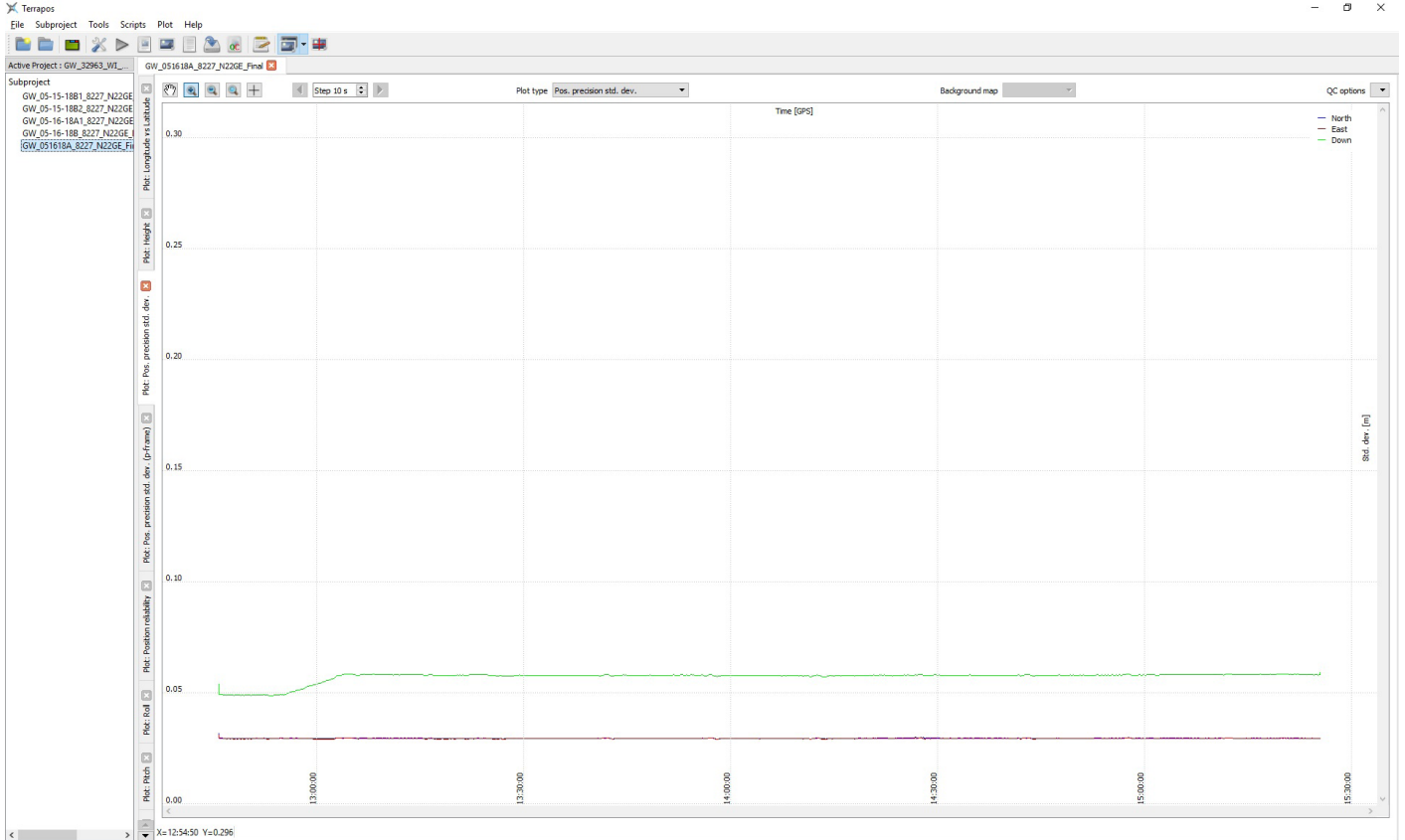
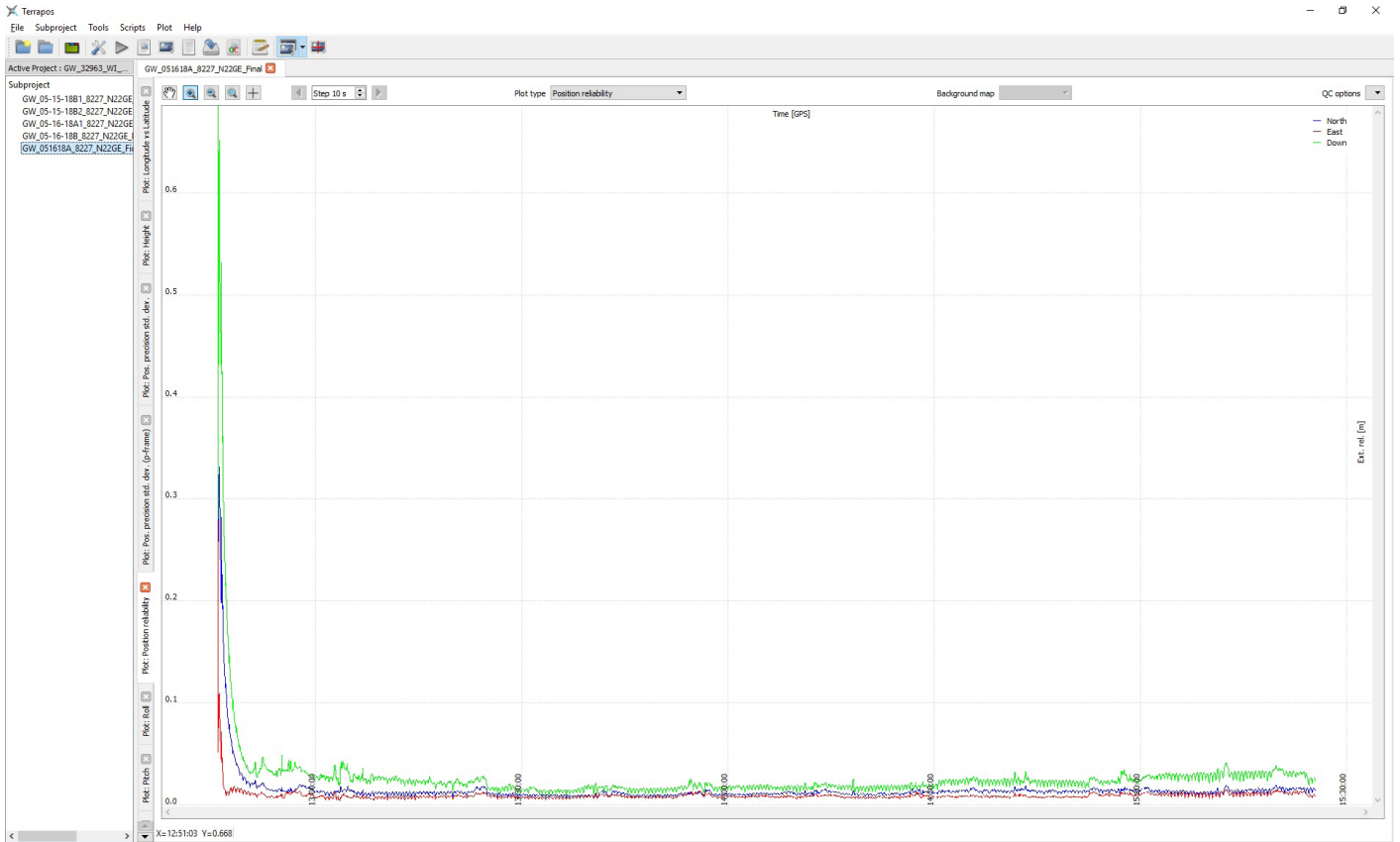




May 16, 2018-A2 (SN8227, N22GE)







Flight Log

Project: Quantum Spatial **Date:** 5-16-18 **Page:** 1 of 2

Flight Mgmt File: 20180516_124440_152848 **Ultralight:** B C D E

Aircraft: 283E **Begin Hobbs:** 9573.2 **End Hobbs:** 9578.5 **Total:** 5.3 **Pilot:** JAMON **Co-Pilot:** AUST

Dep Apt: KSBM **Dep Time (Local):** 12:45 **Arr Apt:** KGRB **Arr Time (Local):** 18:10 **Tot Time Aloft:** _____

COORS: Y/N **Sta 1:** _____ **Sta 2:** _____ **Flyovers:** Y/N **IF Y, times:** Sta 1 **Sta 2** _____

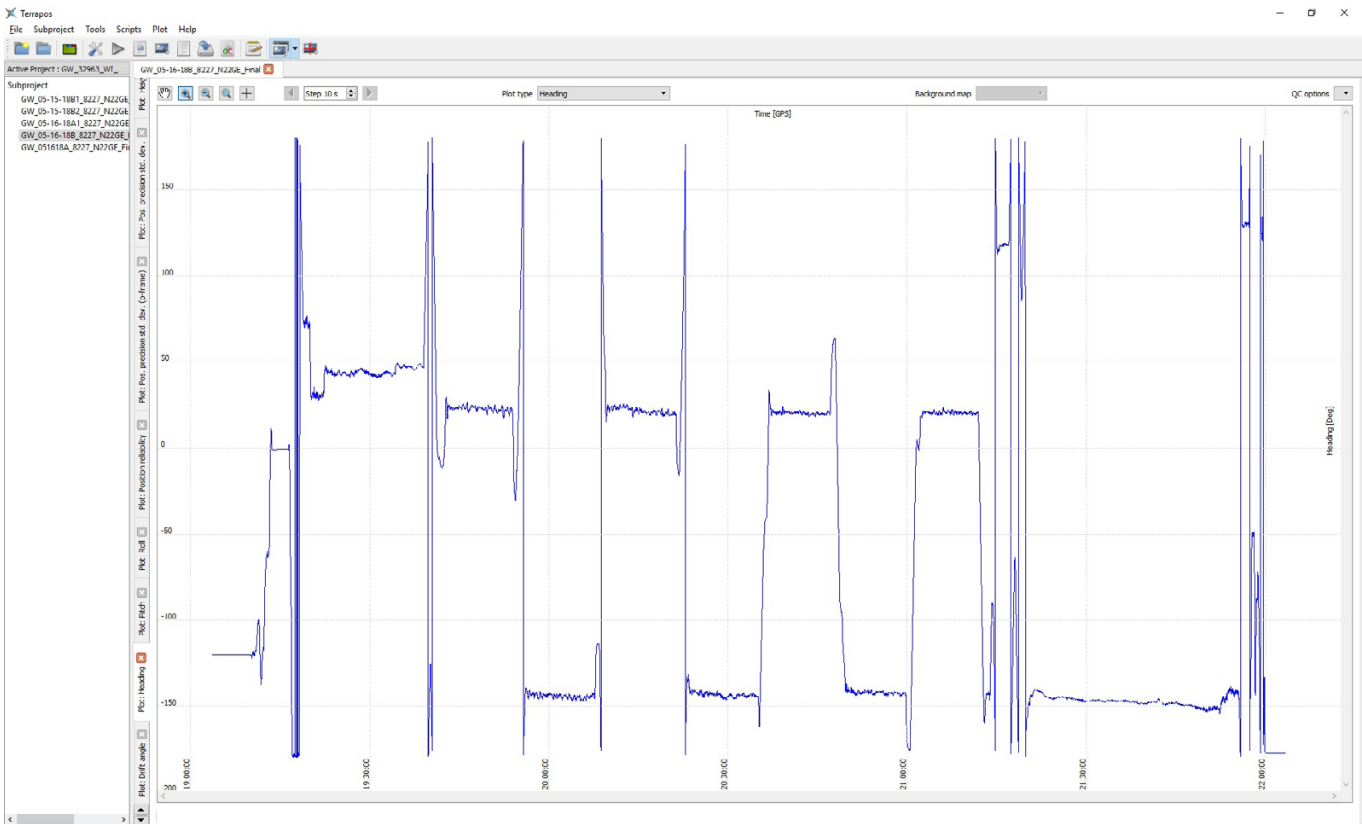
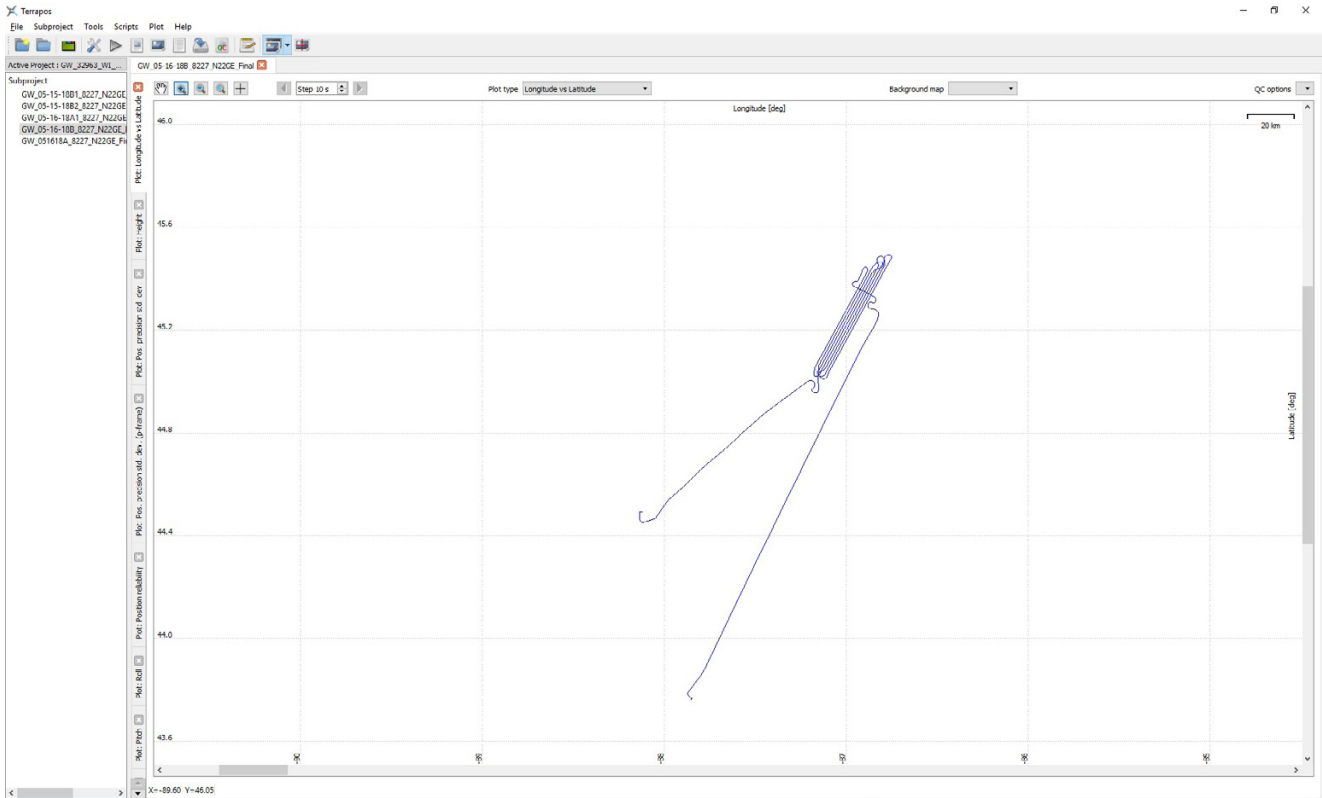
GPS Unit: Y/N **Sta 1:** _____ **Sta 2:** _____ **Flyovers:** Y/N **IF Y, times:** Sta 1 **Sta 2** _____

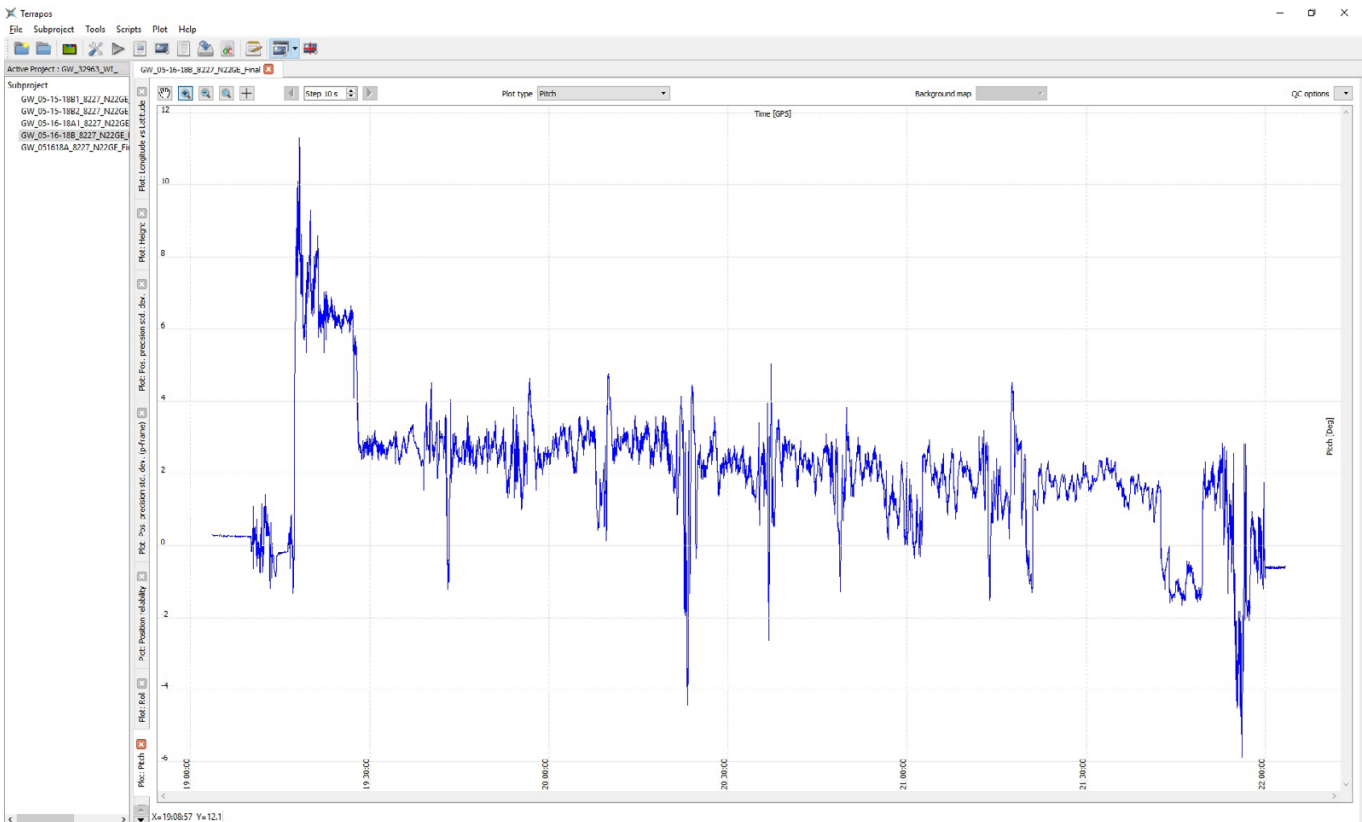
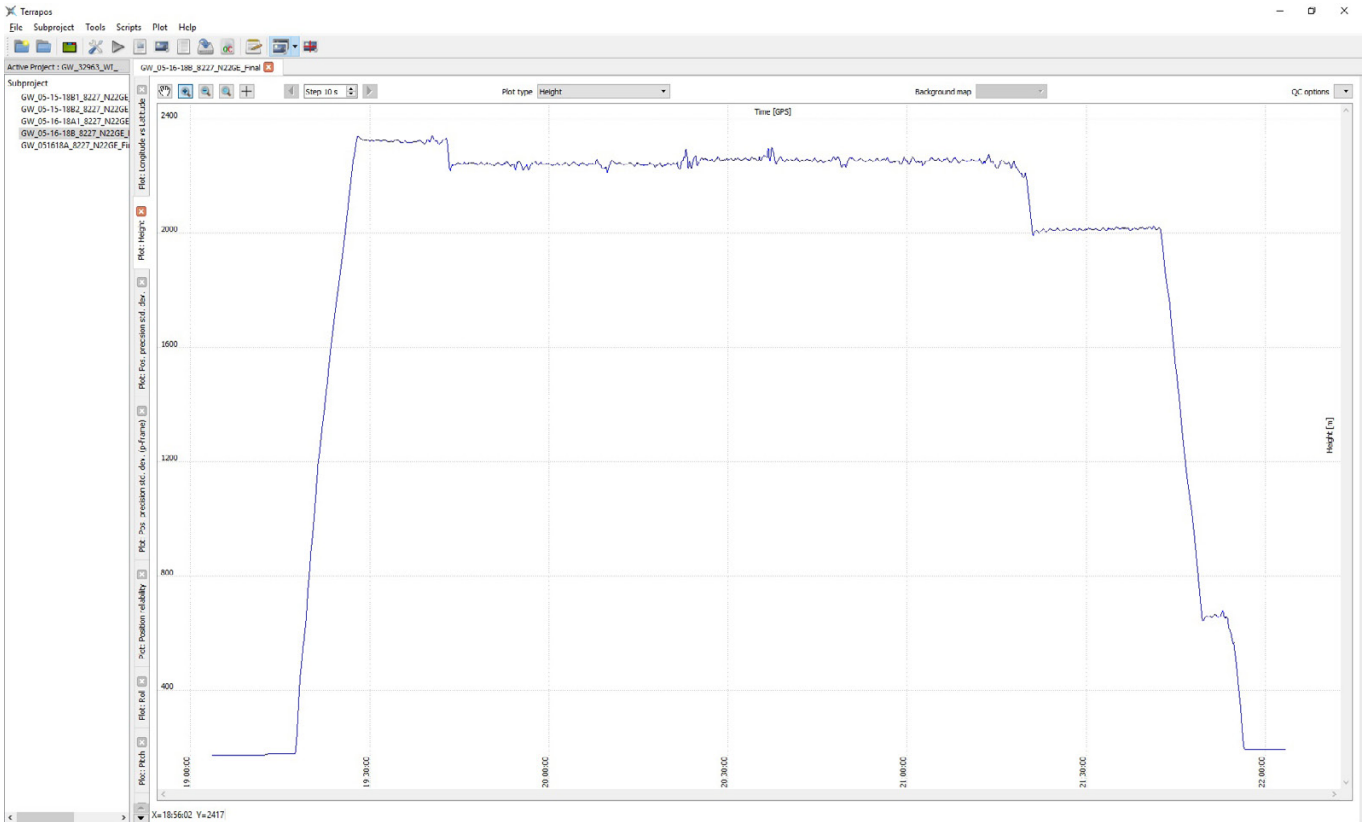
Gd Temp beg:		°C		End:		°C		OAT beg:		°C		End:		°C		Altimeter beg:		end:	
Type	Serial #	Alt AGL	Alt AMSL	Pulse In Air	Avg Terr Ht	Mix Gapd	Power	Pulse Rate	Avg Pt Spacing	PPSM	Mag Cal	End Cal	Tot Cal	Storage Memory					
LIDAR	40	3227	7500	390	160	100					458	354	104	6					

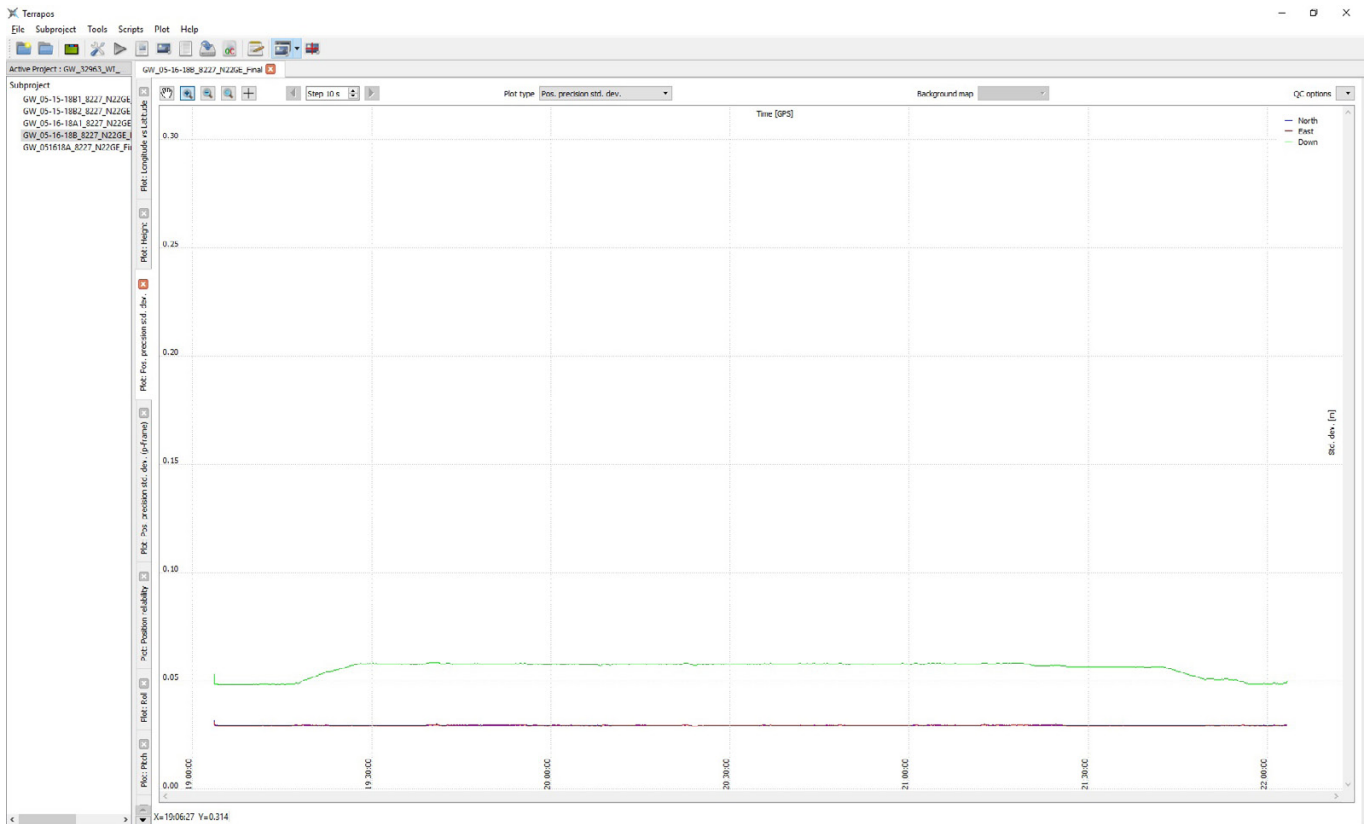
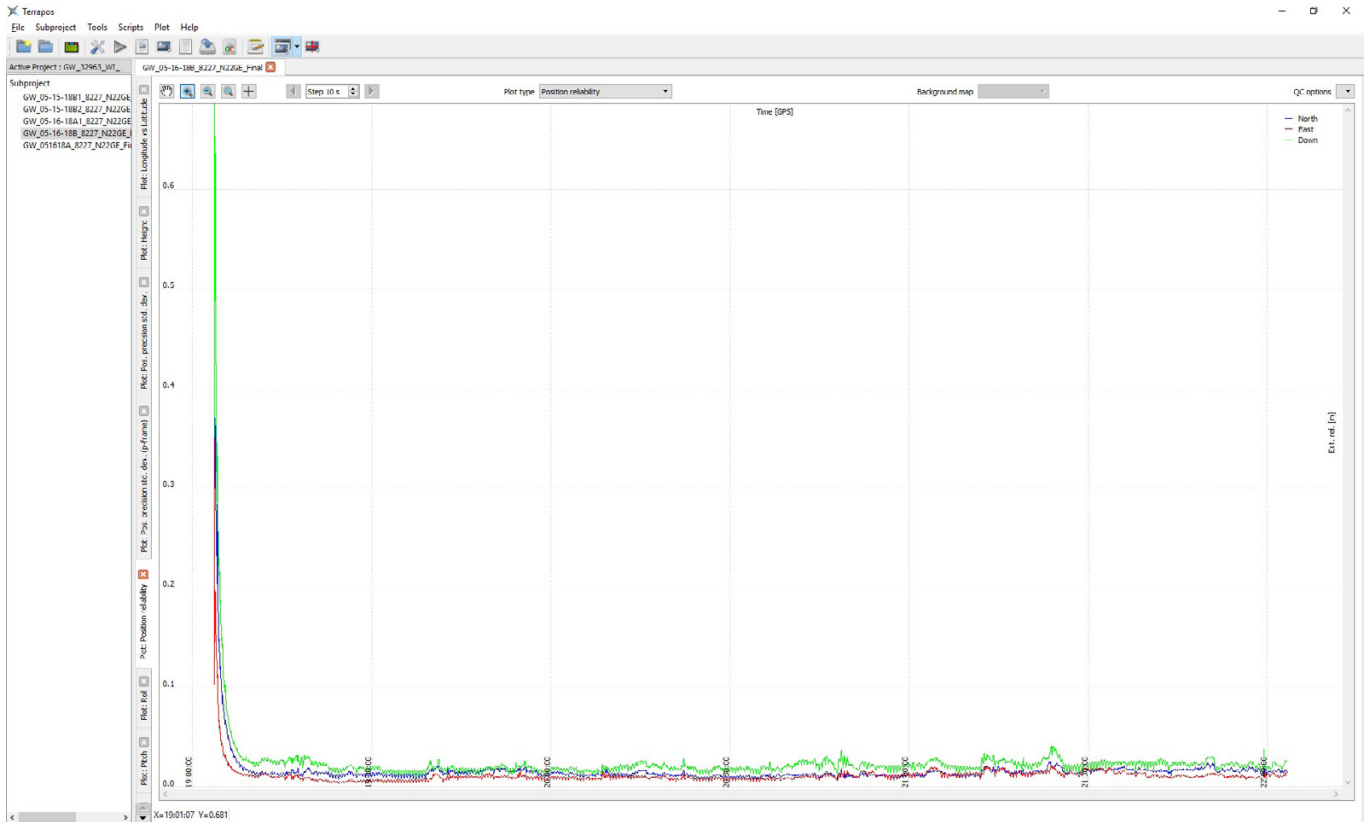
Line #	Hdg	Scn (UTC)	End (UTC)	Gd Spd	POF/Sec	GPS Altitude	Crab	Turb (0-10)	FLIGHT LINE NOTES - visibility, clouds, smoke, partial, etc	
1020	17	1306	1315	156	1.1/17	7600			RF - SENSORS SHUT DOWN AFTER THIS LINE 5-15-18, 3153.2 HAZY	
015	33°	1327	1340	159	1.1/18	7410			32963 DOOR CO.	
016	213°	1343	1355	157	1.2/18	7370				
017	33°	1358	1410	144	1.1/19	7330				
018	213	1413	1426	146	1.0/21	7380				
019	33°	1429	1441	154	1.3/17	7420				
020	213°	1444	1456	147	1.2/18	7360				
021	33°	1458	1510	145	1.2/19	7370			RED ERROR - IMU DATA MISSING - REBOOT & REFLY	
022	213°	1513		145	1.4/17	7370				
023	33°	1534	1545	160	1.2/19	7415				
023	213°	1548	1600	154	1.2/19	7380				
024	33°	1603	1614	145	1.5/18	7370				
025	213°	1617	1627	153	1.1/19	7370				
026	33°	1630	1638	150	1.4/17	7390				
027	213°	1641	1649	155	1.2/19	7390				
028	33°	1653	1701	155	1.1/19	7360				
029	213°	1704	1711	157	1.1/18	7400				

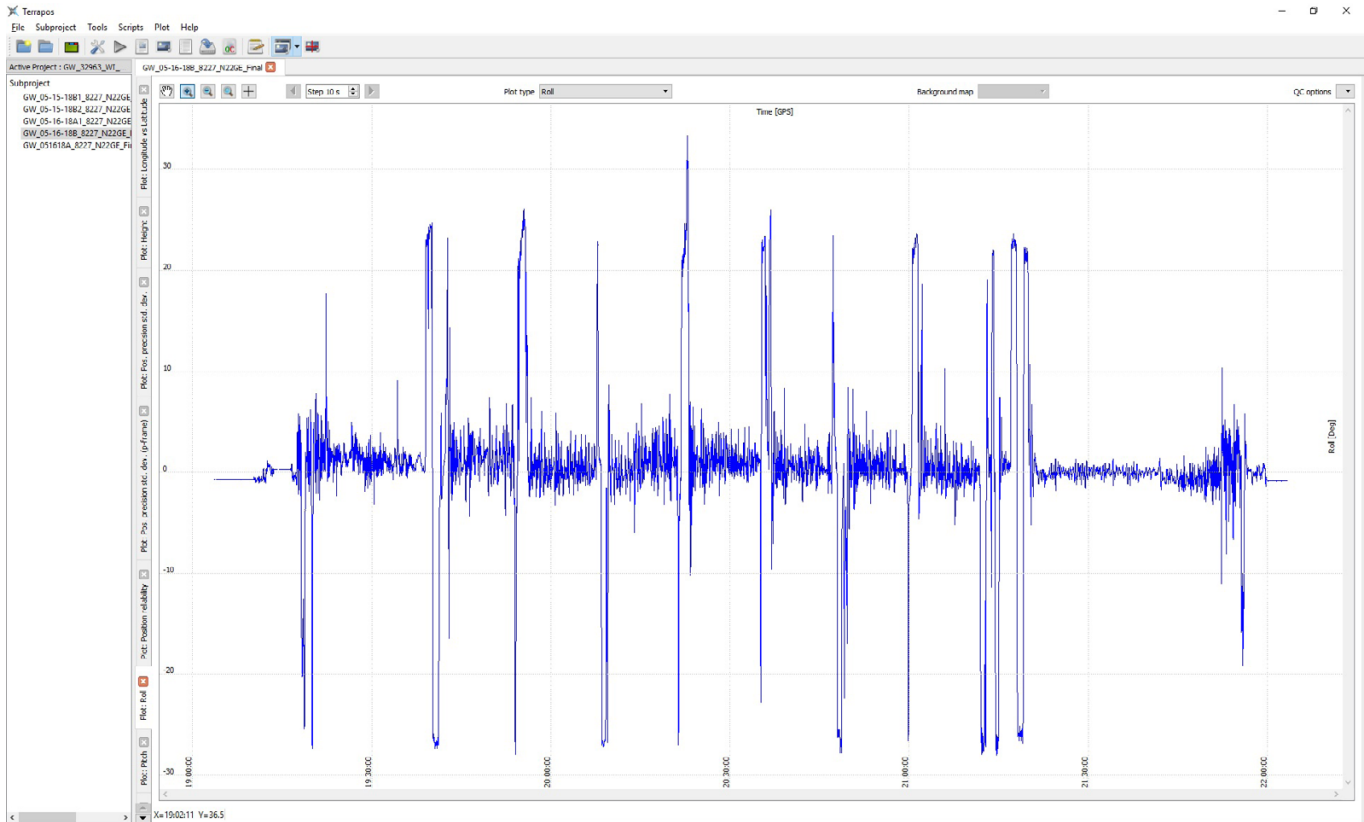
Total Proj Lines: _____ **Lines Flown:** _____ **Lines Remaining:** _____ **Online Time:** 4:75 **Mobile Time:** .55 **Notes:** _____

May 16, 2018-B (SN8227, N22GE)

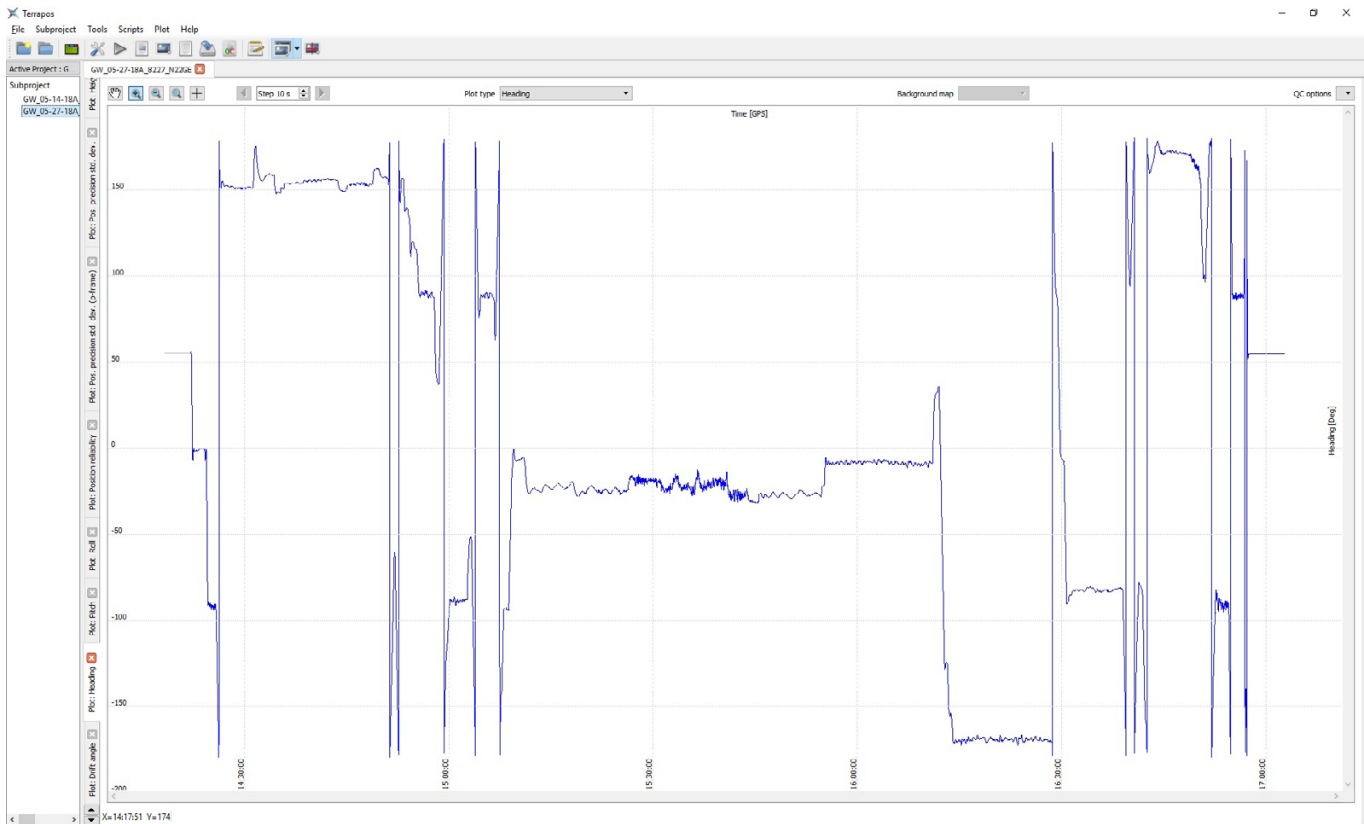
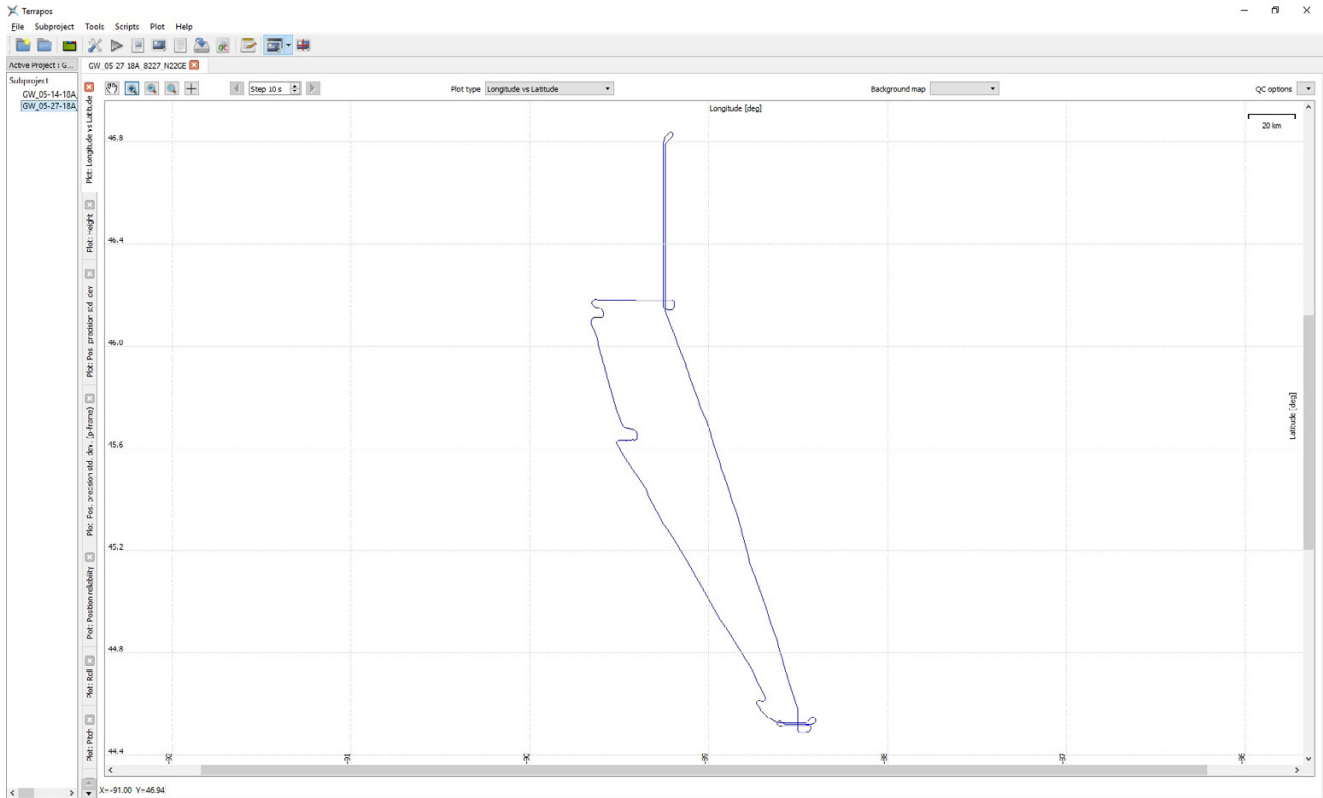


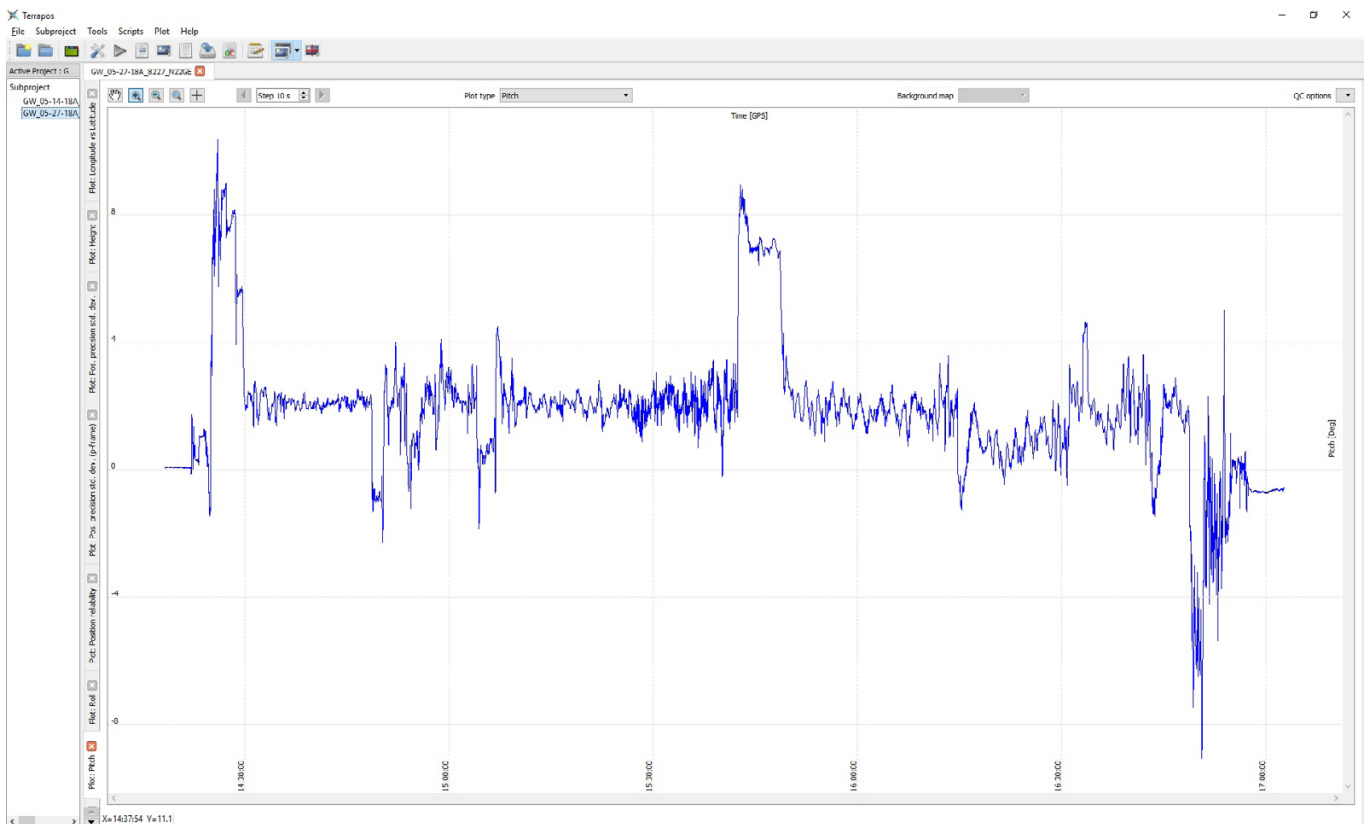
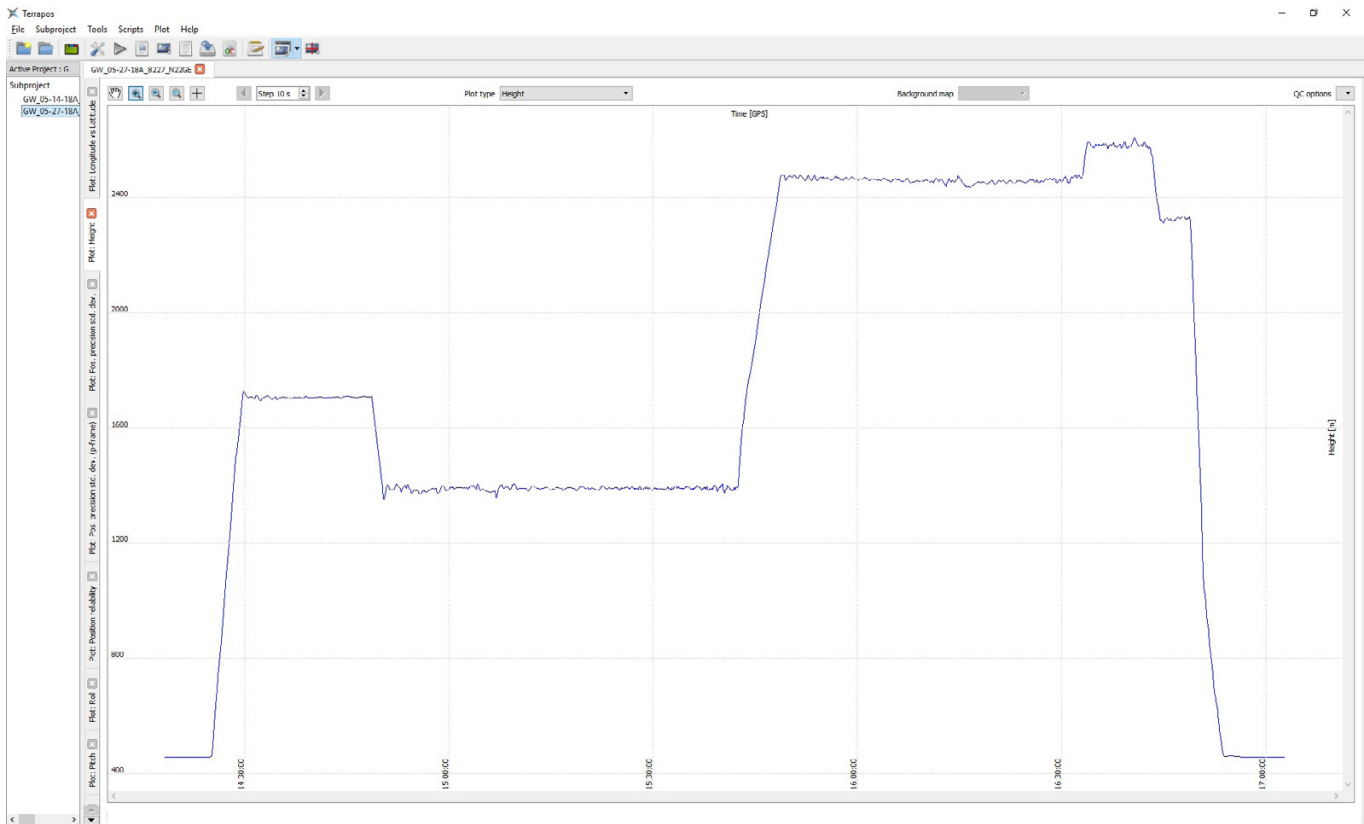


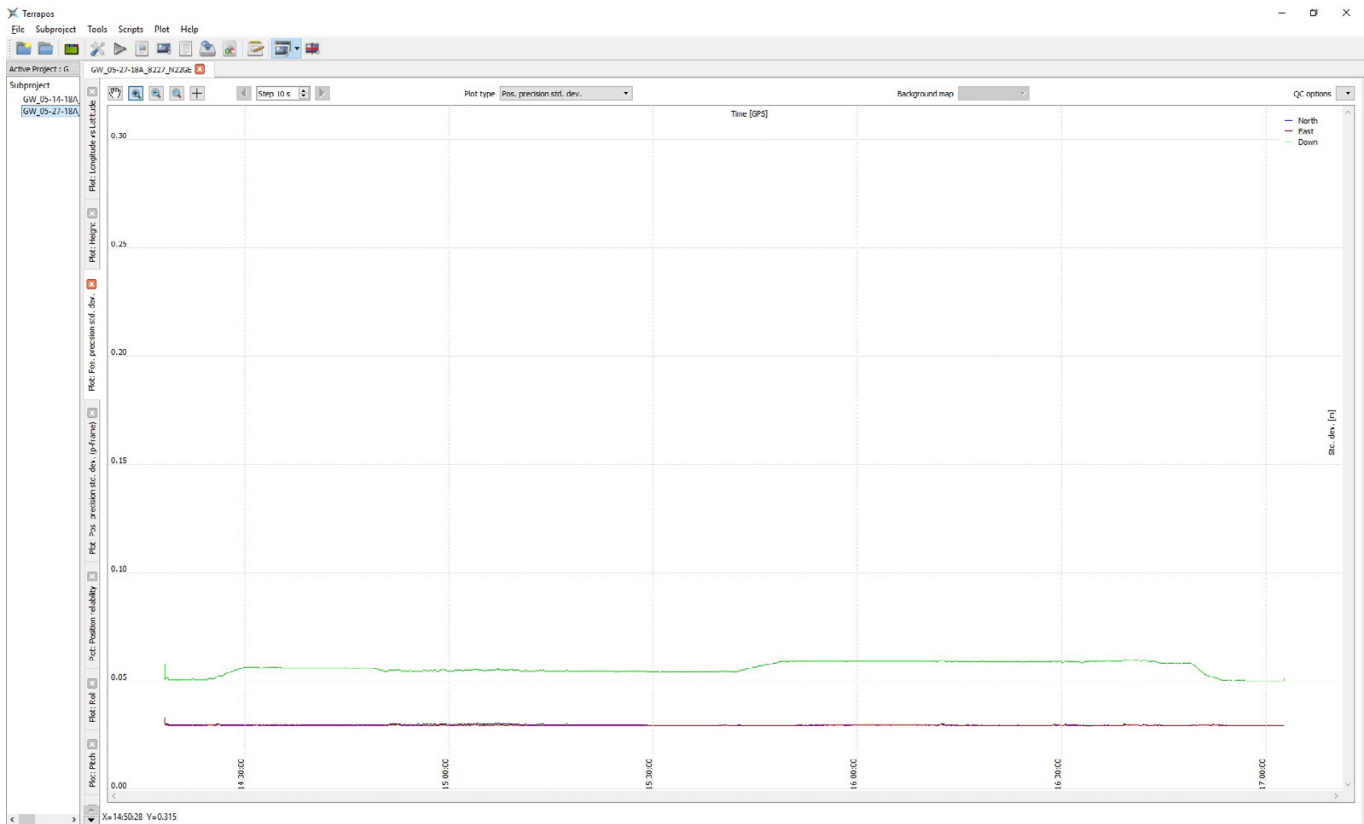
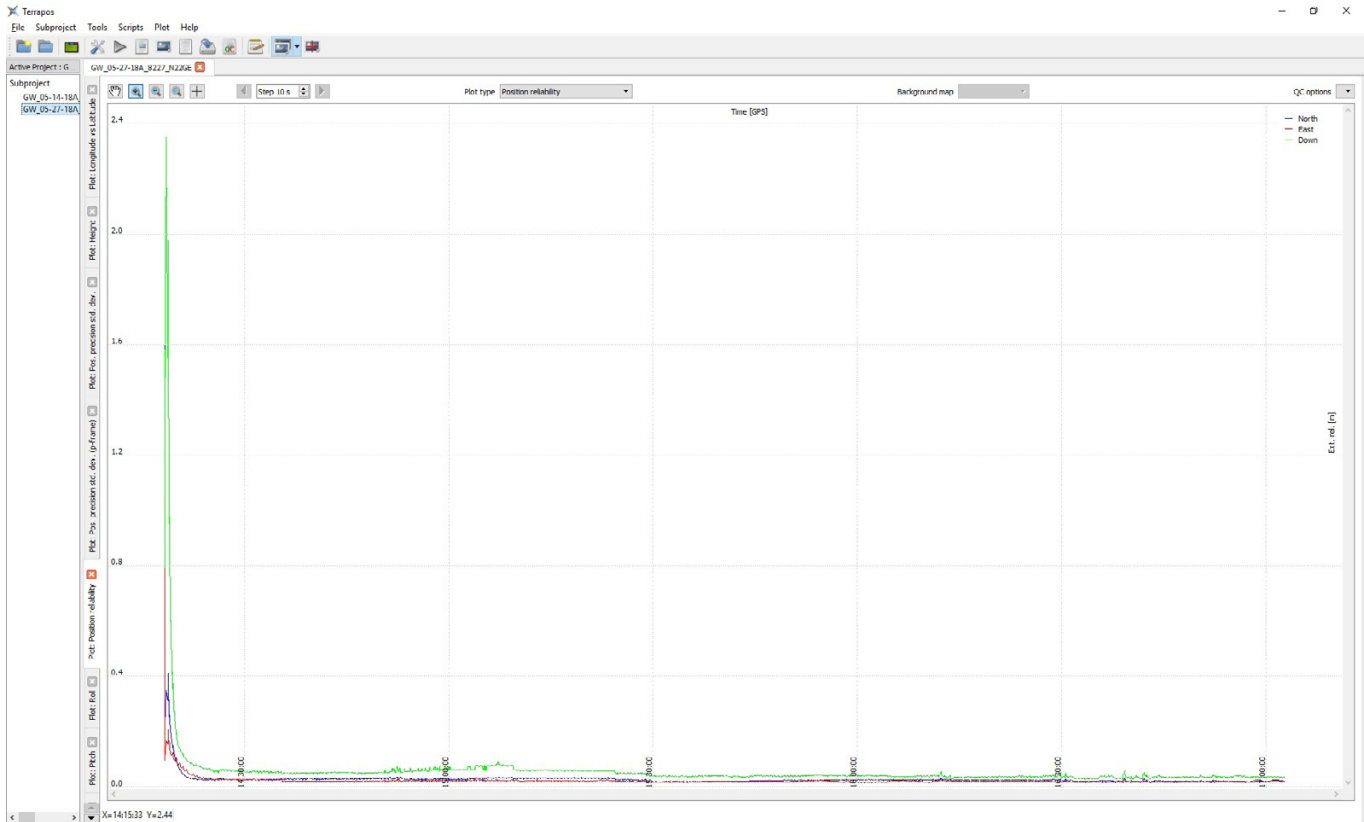


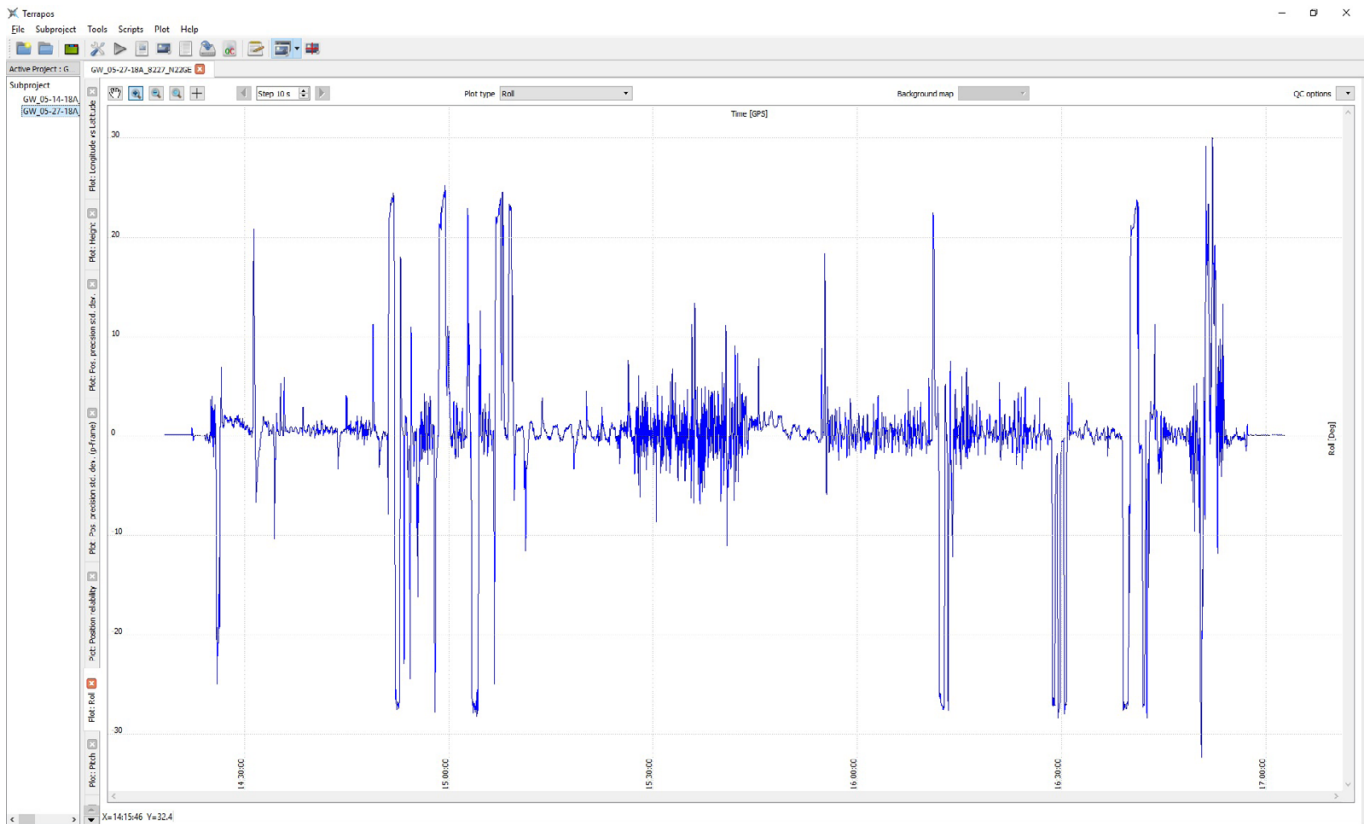


May 27, 2018-A (SN8227, N22GE)









Appendix B

Survey Report

Survey Report
USGS 3 Counties LIDAR Control Survey – Door County
Ayres Project No. 72-0227.06

Client:	Quantum Spatial – 32963_WI_3 Counties_USGS
Type of Survey:	LIDAR Control Survey (USGS Specs)
Project Manager:	Zach Nienow
Survey Project Manager:	James Cappeart
RLS of Record:	James Cappeart
Crew Chief:	Tim Schroeder
Additional Field Crew:	Joe Jarosz
Project Start Date:	6/01/2018
Report Date:	6/29/2018

Control Summary

Horizontal Datum:	NAD83 (2011)			
Vertical Datum:	NAVD88 (2012), GEOID12B			
Rectangular Coordinate System:	UTM, Zone 16 North, Meters			
Used NGS Control?	<input checked="" type="checkbox"/> Yes		<input type="checkbox"/> No	
List any NGS control points used:	6M14 -	$\Delta N=0.010M$	$\Delta E=0.010M$	$\Delta Z=-0.054M$
	Sister Bay GPS -	$\Delta N=-0.002M$	$\Delta E=0.005M$	$\Delta Z=0.029M$
	FAA W147A -	$\Delta N=-0.009M$	$\Delta E=-0.005M$	$\Delta Z=-0.051M$
	6M23 -	$\Delta N=0.009M$	$\Delta E=0.002M$	$\Delta Z=0.005M$
	6M11 -	$\Delta N=-0.002M$	$\Delta E=0.007M$	$\Delta Z=-0.027M$
Summary of control checks and calibration (if applicable):	(See Field Notes for control checks on NGS monuments – No calibration was needed)			
Survey Methods Used:	WISCORS Network through VRS connection was the origination of the control used with checks and calibration as discussed. GPS methods were used where VRS connection and obstructions permitted. Other areas used control set by VRS RTK methods and robotic total station methods were used.			
Equipment Used:	GPS Trimble R8-3 GNSS S/N 5004413097 Trimble S-6 Robotic Total Station S/N 93410182			

Utilities

Diggers Hotline Ticket #:	N/A
Locator Contact Info:	N/A
General Notes:	

Crew Chief Notes

Set PK nails or spikes at control points used for total station measurements and for calibration points. Recorded appropriate: NVA (Bare Earth & Urban) and VVA (Forested, Swamp/Wetland, Tall Weed/Crop). Took (4) pictures of each point – one from each cardinal direction.

Survey Methods (continued)

Points not able to be directly occupied by GPS means were measured using Total Station methods from control point pairs set utilizing GPS methods outlined above.

Traffic Observations

Varied by Site.

Summary of RLS Decisions (Right of Way, Property Lines)

N/A

Survey Data Not Collected

GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE01
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STATE	WI
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COUNTY	Door
--------	------

Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	5027255.103		ELEV.
EASTING	511321.817		177.520

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/12/2018	-	-
	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO: North



PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE01
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PHOTO: South

PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE02
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STATE	WI
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COUNTY	Door
---------------	------

Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	5020428.740		ELEV.
EASTING	504795.247		177.926

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	6/12/2018	-	-
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
			X

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO: North



PHOTO: East



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE02
-----------------	-------------

PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE03
-----------------	-------------

STATE	WI
--------------	----

COUNTY	Door
---------------	------

Country	USA
----------------	-----

OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	5015354.941		ELEV.
EASTING	498295.254		182.099

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	6/12/2018	-	-
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO: North



PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE03
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PHOTO: South

PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE04
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STATE	WI
--------------	----

COUNTY	Door
---------------	------

Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	5007218.758		ELEV.
EASTING	497192.664		183.053

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	RTK	6/11/2018	-
	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
			X

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO: North



PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE04
----------	------

PHOTO: South



PHOTO: West



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE05
----------	------

STATE	WI
-------	----

COUNTY	Door
--------	------

Country	USA
---------	-----

OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	5001828.896	ELEV.	
EASTING	487840.504		221.895

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/11/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	X LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO: North



PHOTO: East



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE05
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE06
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STATE	WI
--------------	----

COUNTY	Door
---------------	------

Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4990719.250		ELEV.
EASTING	490737.291		177.614

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	6/13/2018	-	-
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
			X

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO: North

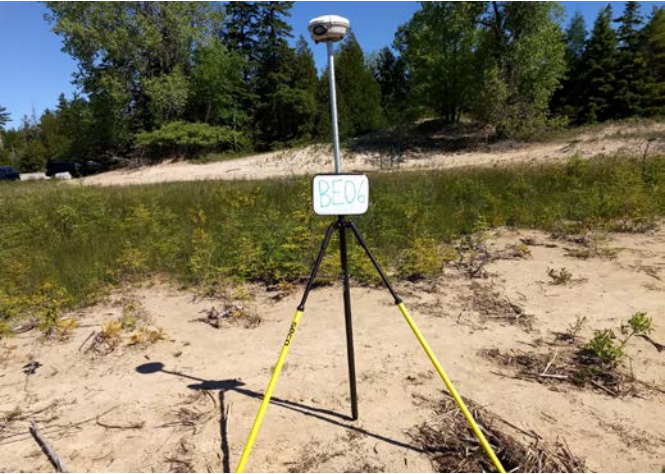


PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE06
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE07
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STATE	WI
--------------	----

COUNTY	Door
---------------	------

Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4977585.720		ELEV.
EASTING	473461.829		223.886

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	6/13/2018	-	-
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
			X

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO: North



PHOTO: East



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE07
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE08
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STATE	WI
--------------	----

COUNTY	Door
---------------	------

Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4988669.084		ELEV.
EASTING	478067.118		199.703

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	6/11/2018	-	-
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
			X

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO: North



PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE08
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE09
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STATE	WI
--------------	----

COUNTY	Door
---------------	------

Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4978333.366		ELEV.
EASTING	482972.181		183.292

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/13/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO: North



PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE09
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE10
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STATE	WI
--------------	----

COUNTY	Door
---------------	------

Country	USA
----------------	-----

OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4950343.535		ELEV.
EASTING	443928.903		185.008

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	6/11/2018	-	-
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
			X

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO: North



PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE10
----------	------

PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE11
-----------------	-------------

STATE	WI
--------------	----

COUNTY	Door
---------------	------

Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4952659.801		ELEV.
EASTING	470026.039		215.619

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	6/13/2018	-	-
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO: North

PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE11
----------	------

PHOTO: South



PHOTO: West



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA01
----------	------

STATE	WI
-------	----

COUNTY	Door
--------	------

Country	USA
---------	-----

OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	5027300.786	ELEV.	
EASTING	511292.553		177.637

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/12/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	X LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: CALIBRATION POINT

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA01
----------	------

PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA02
-----------------	------

STATE	WI
--------------	----

COUNTY	Door
---------------	------

Country	USA
----------------	-----

OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM
 NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	5020414.991	ELEV.	
EASTING	504800.543		177.860

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

		OBS. A	OBS. B
SESSIONS	DATE	6/12/2018	-
RTK	DAY OF YEAR	-	-

	OBS. A	OBS. B		
START TIME	-	-		U.T.C.
END TIME	-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: CALIBRATION POINT

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA02
----------	------

PHOTO: South



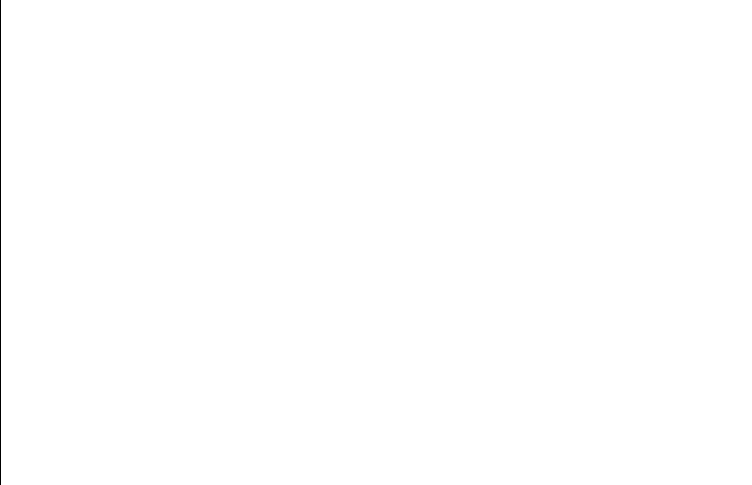
PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA03
-----------------	------

STATE	WI
--------------	----

COUNTY	Door
---------------	------

Country	USA
----------------	-----

OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM
 NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	5015369.403	ELEV.	
EASTING	498274.742		183.585

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

		OBS. A	OBS. B
SESSIONS	DATE	6/12/2018	-
	DAY OF YEAR	-	-
RTK			

	OBS. A	OBS. B		U.T.C.
START TIME	-	-		
END TIME	-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: CALIBRATION POINT

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA03
----------	------

PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA04
----------	------

STATE	WI
-------	----

COUNTY	Door
--------	------

Country	USA
---------	-----

OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	5007217.404	ELEV.	
EASTING	497203.695		182.978

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/11/2018	-	-
	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME			LOCAL
	-	-	X

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: CALIBRATION POINT

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA04
----------	------

PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:

GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA05
-----------------	------

STATE	WI
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COUNTY	Door
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	5001843.500		ELEV.
EASTING	487870.307		222.176

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	DAY OF YEAR		
RTK	6/11/2018	-	-
		-	-

START TIME	OBS. A	OBS. B	U.T.C.
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: CALIBRATION POINT

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA05
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA06
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STATE	WI
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COUNTY	Door
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4990750.670		ELEV.
EASTING	490695.686		177.968

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/13/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: CALIBRATION POINT

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA06
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA07
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STATE	WI
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COUNTY	Door
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM			
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4988711.861		ELEV.
EASTING	478091.759		203.503

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/11/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	X LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: CALIBRATION POINT

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA07
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:

GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA08
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STATE	WI
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COUNTY	Door
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM
 NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4978304.989	ELEV.	
EASTING	482915.239		181.770

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

		OBS. A	OBS. B
SESSIONS	DATE	6/13/2018	-
	DAY OF YEAR	-	-
RTK			

	OBS. A	OBS. B		U.T.C.
START TIME	-	-		
END TIME	-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: CALIBRATION POINT

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID CA08

PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:

GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA09
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STATE	WI
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COUNTY	Door
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM
 NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4963512.886	ELEV.	
EASTING	468247.064		216.024

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/11/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	X LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: CALIBRATION POINT

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA09
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:

GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA10
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STATE	WI
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COUNTY	Door
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4950337.903		ELEV.
EASTING	443934.352		185.105

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	DAY OF YEAR		
RTK	6/11/2018	-	-
		-	-

START TIME	OBS. A	OBS. B	U.T.C.
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: CALIBRATION POINT

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA10
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:

GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA11
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STATE	WI
--------------	----

COUNTY	Door
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4952633.655		ELEV.
EASTING	470027.388		215.980

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	6/13/2018	-	-
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: CALIBRATION POINT

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA11
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	FO01
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STATE	WI
--------------	----

COUNTY	Door
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	5026917.204		ELEV.
EASTING	505415.683		202.443

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/12/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: FOREST AREA

PHOTO: North



PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	FO01
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PHOTO: South

PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	FO02
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STATE	WI
--------------	----

COUNTY	Door
---------------	------

Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	5015380.679		ELEV.
EASTING	498273.670		183.693

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/12/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: FOREST AREA

PHOTO: North



PHOTO: East



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	FO02
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PHOTO: South

PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	FO03
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STATE	WI
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COUNTY	Door
---------------	------

Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	5001828.488		ELEV.
EASTING	487792.144		221.543

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/11/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: FOREST AREA

PHOTO: North



PHOTO: East



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	FO03
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PHOTO: South

PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	FO13
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STATE	WI
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COUNTY	Door
---------------	------

Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4978315.943		ELEV.
EASTING	483028.168		185.403

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	6/18/2018	-	-
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: FOREST AREA

PHOTO: North

PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	FO13
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW01
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STATE	WI
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COUNTY	Door
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	5027228.920		ELEV.
EASTING	511343.468		177.580

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	6/12/2018	-	-
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO: North



PHOTO: East



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW01
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PHOTO: South

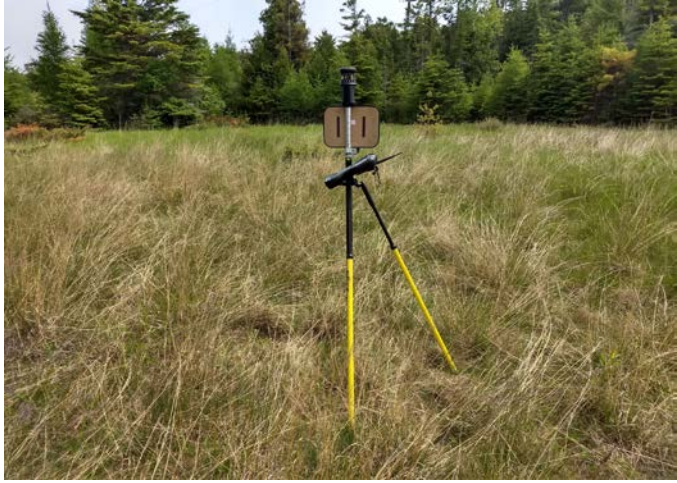


PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW02
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STATE	WI
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COUNTY	Door
---------------	------

Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	5015049.871		ELEV.
EASTING	499055.690		200.431

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	6/12/2018	-	-
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
			X

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO: North



PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW02
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PHOTO: South

PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW03
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STATE	WI
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COUNTY	Door
---------------	------

Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	5007063.862		ELEV.
EASTING	497011.450		181.433

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	6/11/2018	-	-
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
			X

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO: North



PHOTO: East



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW03
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PHOTO: South

PHOTO: West



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW04
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STATE	WI
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COUNTY	Door
--------	------

Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM			
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	5001838.940		ELEV.
EASTING	487915.800		222.293

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/11/2018	-	-
	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO: North



PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW04
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PHOTO: South

PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW05
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STATE	WI
-------	----

COUNTY	Door
--------	------

Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM			
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4997087.320		ELEV.
EASTING	489762.883		190.819

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/11/2018	-	-
	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO: North



PHOTO: East



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW05
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PHOTO: South

PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW06
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STATE	WI
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COUNTY	Door
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4988818.712		ELEV.
EASTING	478065.853		205.107

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/11/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	X LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO: North



PHOTO: East



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW06
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PHOTO: South

PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW07
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STATE	WI
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COUNTY	Door
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4984128.512		ELEV.
EASTING	481548.132		222.735

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	6/11/2018	-	-
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
			X

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO: North



PHOTO: East



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW07
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW08
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STATE	WI
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COUNTY	Door
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4977595.304		ELEV.
EASTING	473252.796		222.411

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/13/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO: North



PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW08
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PHOTO: South

PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW09
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STATE	WI
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COUNTY	Door
---------------	------

Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4978385.692		ELEV.
EASTING	482954.607		185.720

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	6/13/2018	-	-
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
			X

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO: North

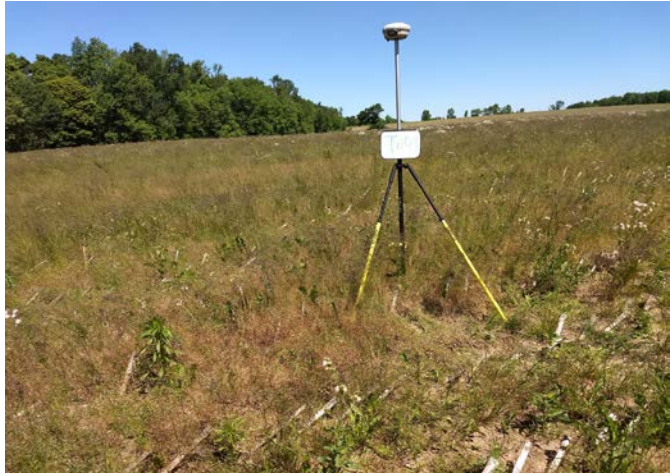
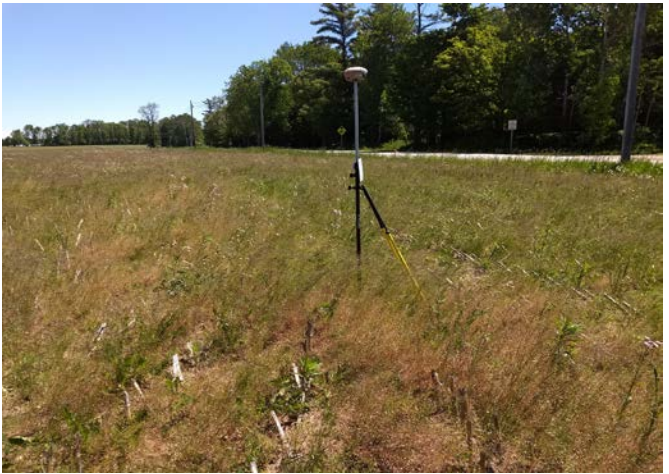


PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW09
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW10
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STATE	WI
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COUNTY	Door
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM			
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4971208.251		ELEV.
EASTING	477231.800		209.080

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/13/2018	-	-
	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO: North



PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW10
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PHOTO: South

PHOTO: West



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW11
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STATE	WI
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COUNTY	Door
--------	------

Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM			
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4966619.006		ELEV.
EASTING	472469.896		203.834

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/11/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	X LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO: North



PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW11
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW12
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STATE	WI
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COUNTY	Door
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM			
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			

NORTHING	4963491.640	ELEV.	
EASTING	468253.156		215.166

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/11/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO: North



PHOTO: East



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW12
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW13
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STATE	WI
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COUNTY	Door
---------------	------

Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4950283.633		ELEV.
EASTING	443850.517		184.100

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	6/11/2018	-	-
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO: North



PHOTO: East



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW13
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW14
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STATE	WI
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COUNTY	Door
---------------	------

Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4948611.333		ELEV.
EASTING	461322.221		178.045

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	6/13/2018	-	-
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO: North



PHOTO: East



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW14
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW15
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STATE	WI
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COUNTY	Door
---------------	------

Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4952637.909		ELEV.
EASTING	470581.942		207.781

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	6/13/2018	-	-
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO: North



PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW15
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PHOTO: South

PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA01
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STATE	WI
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COUNTY	Door
---------------	------

Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	5026844.412		ELEV.
EASTING	505388.671		204.691

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	6/12/2018	-	-
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
			X

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO: North



PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA01
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PHOTO: South

PHOTO: West



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA02
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STATE	WI
-------	----

COUNTY	Door
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM			
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	5027316.621		ELEV.
EASTING	511302.004		177.653

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/12/2018	-	-
	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO: North



PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA02
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PHOTO: South

PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA03
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STATE	WI
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COUNTY	Door
---------------	------

Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	5015369.385		ELEV.
EASTING	498267.848		183.751

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	6/12/2018	-	-
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO: North



PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA03
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PHOTO: South

PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA04
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STATE	WI
-------	----

COUNTY	Door
--------	------

Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM			
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	5007223.461		ELEV.
EASTING	497200.508		183.083

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/11/2018	-	-
	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO: North



PHOTO: East



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA04
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA05
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STATE	WI
--------------	----

COUNTY	Door
---------------	------

Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
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NORTHING	5001881.595	ELEV.	
EASTING	487862.056		223.136

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/11/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO: North



PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA05
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PHOTO: South

PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA06
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STATE	WI
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COUNTY	Door
---------------	------

Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4990758.981		ELEV.
EASTING	490686.847		178.085

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	6/13/2018	-	-
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
			X

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO: North



PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA06
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA07
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STATE	WI
-------	----

COUNTY	Door
--------	------

Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM			
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4988716.177		ELEV.
EASTING	478090.045		203.611

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/11/2018	-	-
	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO: North



PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA07
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA08
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STATE	WI
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COUNTY	Door
---------------	------

Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4971192.472		ELEV.
EASTING	477246.991		209.607

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	6/13/2018	-	-
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
			X

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO: North



PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA08
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PHOTO: South

PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA09
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STATE	WI
--------------	----

COUNTY	Door
---------------	------

Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4963358.535		ELEV.
EASTING	468173.584		215.884

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	6/13/2018	-	-
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO: North



PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA09
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PHOTO: South

PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA10
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STATE	WI
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COUNTY	Door
--------	------

Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM			
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4966610.616		ELEV.
EASTING	472448.622		203.112

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/11/2018	-	-
	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO: North



PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA10
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PHOTO: South

PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA11
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STATE	WI
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COUNTY	Door
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4952644.281		ELEV.
EASTING	470030.392		215.828

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	6/13/2018	-	-
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
			X

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO: North



PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA11
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA28
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STATE	WI
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COUNTY	Door
---------------	------

Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4948703.925		ELEV.
EASTING	461664.834		189.785

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	6/13/2018	-	-
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
			X

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO: North



PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA28
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PHOTO: South

PHOTO: West



Survey Report
USGS 3 Counties LIDAR Control Survey – Marquette County
Ayres Project No. 72-0227.06

Client:	Quantum Spatial – 32963_WI_3 Counties_USGS
Type of Survey:	LIDAR Control Survey (USGS Specs)
Project Manager:	Zach Nienow
Survey Project Manager:	James Cappeart
RLS of Record:	James Cappeart
Crew Chief:	Nate Rollin
Additional Field Crew:	Bill Schlafke
Project Start Date:	6/01/2018
Report Date:	6/29/2018

Control Summary

Horizontal Datum:	NAD83 (2011)
Vertical Datum:	NAVD88 (2012), GEOID12B
Rectangular Coordinate System:	UTM, Zone 16 North, Meters
Used NGS Control?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
List any NGS control points used:	Montello C GPS – DH5499 Springfield C GPS – DH5457
Summary of control checks and calibration (if applicable):	(See Field Notes for control checks on NGS monuments – No calibration was needed)
Survey Methods Used:	WISCORS Network through VRS connection was the origination of the control used with checks and calibration as discussed. GPS methods were used where VRS connection and obstructions permitted. Other areas used control set by VRS RTK methods and robotic total station methods were used.
Equipment Used:	GPS Trimble R8-3 GNSS S/N 5418464136 Trimble S-6 Robotic Total Station

Utilities

Diggers Hotline Ticket #:	N/A
Locator Contact Info:	N/A
General Notes:	

Crew Chief Notes

<p>Set PK nails or spikes at control points used for total station measurements and for calibration points.</p> <p>Recorded appropriate: NVA (Bare Earth & Urban) and VVA (Forested, Swamp/Wetland, Tall Weed/Crop). Took (5) pictures of each point – one from each cardinal direction and a nadir of the rod end.</p>

Survey Methods (continued)

Points not able to be directly occupied by GPS means were measured using Total Station methods from control point pairs set utilizing GPS methods outlined above.

Traffic Observations

Varied by Site.

Summary of RLS Decisions (Right of Way, Property Lines)

N/A

Survey Data Not Collected

GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE24
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STATE	WI
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COUNTY	Marquette
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Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4873156.409	ELEV.	
EASTING	292042.257		343.062

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/7/2018	-
RTK	DAY OF YEAR	-	-

		OBS. A	OBS. B		U.T.C.
START TIME		-	-		
END TIME		-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO:

PHOTO: North



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE24
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE25
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STATE	WI
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COUNTY	Marquette
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Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4872334.071	ELEV.	
EASTING	302487.130		270.262

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/7/2018	-
RTK	DAY OF YEAR	-	-

	OBS. A	OBS. B		U.T.C.
START TIME	-	-		
END TIME	-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE25
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE26
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STATE	WI
--------------	----

COUNTY	Marquette
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Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4872563.434	ELEV.	
EASTING	313123.908		256.524

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/7/2018	-
RTK	DAY OF YEAR	-	-

	OBS. A	OBS. B		
START TIME	-	-		U.T.C.
END TIME	-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE26
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE27
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STATE	WI
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COUNTY	Marquette
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Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4861355.623	ELEV.	
EASTING	292027.946		296.936

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/7/2018	-
RTK	DAY OF YEAR	-	-

		OBS. A	OBS. B		U.T.C.
START TIME		-	-		
END TIME		-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE27
-----------------	-------------

PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE28
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STATE	WI
--------------	----

COUNTY	Marquette
---------------	-----------

Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4861253.077	ELEV.	
EASTING	299472.212		265.836

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/7/2018	-
RTK	DAY OF YEAR	-	-

	OBS. A	OBS. B		U.T.C.
START TIME	-	-		
END TIME	-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE28
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE29
-----------------	------

STATE	WI
--------------	----

COUNTY	Marquette
---------------	-----------

Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4861802.497	ELEV.	
EASTING	314721.883		256.141

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/7/2018	-
RTK	DAY OF YEAR	-	-

		OBS. A	OBS. B		U.T.C.
START TIME		-	-		
END TIME		-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE29
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE30
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STATE	WI
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COUNTY	Marquette
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Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4862759.580	ELEV.	
EASTING	325835.555		244.358

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/7/2018	-
RTK	DAY OF YEAR	-	-

	OBS. A	OBS. B		U.T.C.
START TIME	-	-		
END TIME	-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE30
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE31
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STATE	WI
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COUNTY	Marquette
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Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4850895.528	ELEV.	
EASTING	292258.254		265.079

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/7/2018	-
RTK	DAY OF YEAR	-	-

	OBS. A	OBS. B		U.T.C.
START TIME	-	-		
END TIME	-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE31
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE32
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STATE	WI
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COUNTY	Marquette
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Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4846145.377	ELEV.	
EASTING	309921.770		240.880

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/6/2018	-
RTK	DAY OF YEAR	-	-

	OBS. A	OBS. B		U.T.C.
START TIME	-	-		
END TIME	-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO:

PHOTO: North



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE32
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE33
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STATE	WI
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COUNTY	Marquette
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Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4836611.491	ELEV.	
EASTING	291446.940		242.703

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/7/2018	-
RTK	DAY OF YEAR	-	-

		OBS. A	OBS. B		U.T.C.
START TIME		-	-		
END TIME		-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO:

PHOTO: North



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE33
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE34
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STATE	WI
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COUNTY	Marquette
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Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4835712.359	ELEV.	
EASTING	318131.651		260.808

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/6/2018	-
RTK	DAY OF YEAR	-	-

		OBS. A	OBS. B		U.T.C.
START TIME		-	-		
END TIME		-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO:

PHOTO: North



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE34
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA_27
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STATE	WI	COUNTY	Marquette	Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
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RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

NORTHING	4873154.135	ELEV.	
EASTING	292035.930		343.084

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/5/2018	-	-
	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME			LOCAL
	-	-	X

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED	FIXED HGT.	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

Type: CALIBRATION POINT

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA_27
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA_28
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STATE	WI	COUNTY	Marquette	Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
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RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

NORTHING	4872330.925	ELEV.	
EASTING	302468.040		270.941

		OBS. A	OBS. B
SESSIONS	DATE	6/5/2018	-
RTK	DAY OF YEAR	-	-

	OBS. A	OBS. B		
START TIME	-	-		U.T.C.
END TIME	-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

Type: CALIBRATION POINT

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA_28
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA_29
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STATE	WI	COUNTY	Marquette	Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM
 NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4872563.827	ELEV.	
EASTING	313127.430		256.540

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/5/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B		U.T.C.
START TIME	-	-		
END TIME	-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

Type: CALIBRATION POINT

PHOTO: PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA_29
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA_30
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STATE	WI	COUNTY	Marquette	Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM
 NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4872177.802	ELEV.	
EASTING	325669.705		239.268

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/5/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B		U.T.C.
START TIME	-	-		
END TIME	-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

Type: CALIBRATION POINT

PHOTO: PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA_30
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA_31
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STATE	WI	COUNTY	Marquette	Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM
 NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4861267.270	ELEV.	
EASTING	299492.880		265.989

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/5/2018	-	-
	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME			LOCAL
	-	-	X

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

Type: CALIBRATION POINT

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA_31
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA_32
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STATE	WI	COUNTY	Marquette	Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
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RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

NORTHING	4861812.798	ELEV.	
EASTING	314736.834		255.676

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/5/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B		U.T.C.
START TIME	-	-		
END TIME	-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

Type: CALIBRATION POINT

PHOTO: PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA_32
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA_33
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STATE	WI	COUNTY	Marquette	Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
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RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

NORTHING	4850864.003	ELEV.	
EASTING	292233.583		265.617

	DATE	OBS. A	OBS. B
SESSIONS	6/5/2018	-	-
RTK	DAY OF YEAR	-	-

	OBS. A	OBS. B		U.T.C.
START TIME	-	-		
END TIME	-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

Type: CALIBRATION POINT

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA_33
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA_34
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STATE	WI	COUNTY	Marquette	Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM
 NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4846143.700	ELEV.	
EASTING	309937.850		240.879

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/6/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B		U.T.C.
START TIME	-	-		
END TIME	-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

Type: CALIBRATION POINT

PHOTO: PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA_34
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA_35
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STATE	WI	COUNTY	Marquette	Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
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RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

NORTHING	4848619.697	ELEV.	
EASTING	325013.288		237.131

		OBS. A	OBS. B
SESSIONS	DATE	6/5/2018	-
RTK	DAY OF YEAR	-	-

	OBS. A	OBS. B		
START TIME	-	-		U.T.C.
END TIME	-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

Type: CALIBRATION POINT

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA_35
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA_36
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STATE	WI	COUNTY	Marquette	Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM
 NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4836620.223	ELEV.	
EASTING	291454.187		242.904

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/5/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B		U.T.C.
START TIME	-	-		
END TIME	-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED	FIXED HGT.	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

Type: CALIBRATION POINT

PHOTO: PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA_36
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PHOTO: South



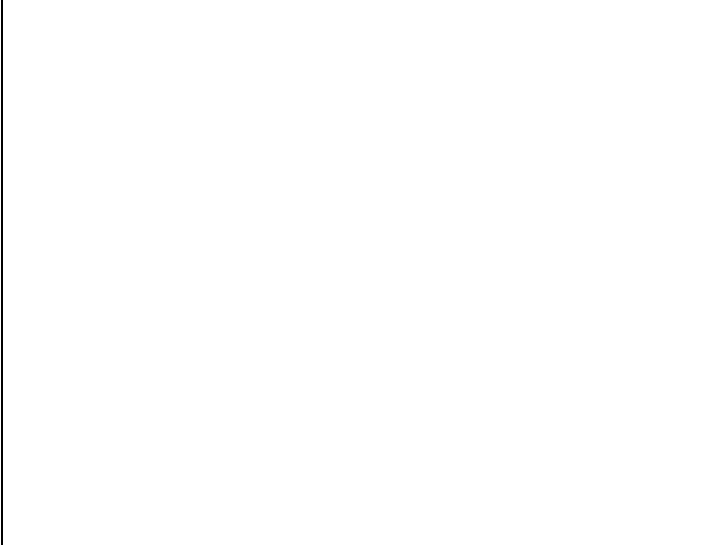
PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA_37
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STATE	WI	COUNTY	Marquette	Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM
 NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4835704.237	ELEV.	
EASTING	318120.891		261.283

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/6/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B		U.T.C.
START TIME	-	-		
END TIME	-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

Type: CALIBRATION POINT

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA_37
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:





**GPS CONTROL
FIELD DATA SHEET**

PAGE:
1

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	F007
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STATE	WI
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COUNTY	Marquette
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Country	USA
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OPERATOR	W. Schlafke
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**PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters**

NORTHING	4873117.092	ELEV.	
EASTING	292062.744		343.992

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/7/2018	-
RTK	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	X LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: FOREST

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	F007
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:





**GPS CONTROL
FIELD DATA SHEET**

PAGE:
1

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	FO08
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STATE	WI	COUNTY	Marquette	Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4872305.030		ELEV.
EASTING	302441.336		271.745

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/7/2018	-
RTK	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	X LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: FOREST

PHOTO:

PHOTO: North



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	F008
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



**GPS CONTROL
FIELD DATA SHEET**

PAGE:
1

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	FO09
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STATE	WI
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COUNTY	Marquette
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Country	USA
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OPERATOR	W. Schlafke
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**PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters**

NORTHING	4861373.591	ELEV.	
EASTING	291986.597		298.904

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/7/2018	-
	DAY OF YEAR	-	-
RTK			

	OBS. A	OBS. B		U.T.C.
START TIME	-	-		
END TIME	-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: FOREST

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	F09
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:





**GPS CONTROL
FIELD DATA SHEET**

PAGE:
1

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	FO10
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STATE	WI
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COUNTY	Marquette
---------------	-----------

Country	USA
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OPERATOR	W. Schlafke
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**PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters**

NORTHING	4850900.883	ELEV.	
EASTING	292132.060		271.531

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/7/2018	-
	DAY OF YEAR	-	-
RTK			

	OBS. A	OBS. B		U.T.C.
START TIME	-	-		
END TIME	-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: FOREST

PHOTO:

PHOTO: North



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	FO10
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



**GPS CONTROL
FIELD DATA SHEET**

PAGE:
1

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	FO11
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STATE	WI
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COUNTY	Marquette
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Country	USA
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OPERATOR	W. Schlafke
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**PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters**

NORTHING	4851469.963	ELEV.	
EASTING	313983.860		252.646

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/6/2018	-
RTK	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	X LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: FOREST

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	F011
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:





**GPS CONTROL
FIELD DATA SHEET**

PAGE:
1

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	FO12
-----------------	-------------

STATE	WI
--------------	----

COUNTY	Marquette
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Country	USA
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OPERATOR	W. Schlafke
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**PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters**

NORTHING	4836596.486	ELEV.	
EASTING	291505.752		240.908

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

SESSIONS	DATE	OBS. A	OBS. B
			6/7/2018
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: FOREST

PHOTO:

PHOTO: North



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	FO12
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PHOTO: South



PHOTO: East

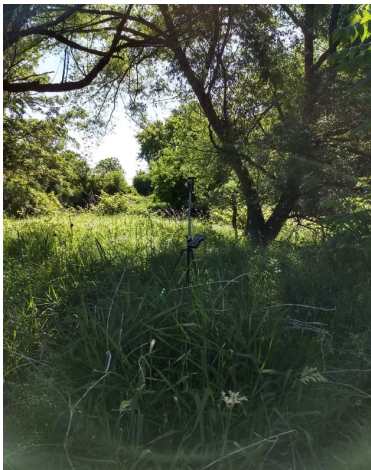


PHOTO: West



PHOTO:

GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW31
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STATE	WI
--------------	----

COUNTY	Marquette
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Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4873166.468	ELEV.	
EASTING	292055.781		343.214

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/7/2018	-
RTK	DAY OF YEAR	-	-

		OBS. A	OBS. B		U.T.C.
START TIME		-	-		
END TIME		-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW31
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW32
-----------------	-------------

STATE	WI
--------------	----

COUNTY	Marquette
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Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
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NORTHING	4872334.777	ELEV.	
EASTING	302501.869		269.775

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/7/2018	-
RTK	DAY OF YEAR	-	-

		OBS. A	OBS. B		U.T.C.
START TIME		-	-		
END TIME		-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW32
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW33
-----------------	-------------

STATE	WI
--------------	----

COUNTY	Marquette
---------------	-----------

Country	USA
----------------	-----

OPERATOR	W. Schlafke
-----------------	-------------

PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4872557.145	ELEV.	
EASTING	313141.913		256.526

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/7/2018	-
RTK	DAY OF YEAR	-	-

		OBS. A	OBS. B		U.T.C.
START TIME		-	-		
END TIME		-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW33
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW34
-----------------	-------------

STATE	WI
--------------	----

COUNTY	Marquette
---------------	-----------

Country	USA
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OPERATOR	W. Schlafke
-----------------	-------------

PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4872150.300	ELEV.	
EASTING	325664.887		239.094

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/7/2018	-
RTK	DAY OF YEAR	-	-

	OBS. A	OBS. B		U.T.C.
START TIME	-	-		
END TIME	-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO:

PHOTO: North



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW34
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW35
-----------------	------

STATE	WI
--------------	----

COUNTY	Marquette
---------------	-----------

Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4861331.949	ELEV.	
EASTING	291988.586		299.173

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/7/2018	-
RTK	DAY OF YEAR	-	-

	OBS. A	OBS. B		
START TIME	-	-		U.T.C.
END TIME	-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO:

PHOTO: North



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW35
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PHOTO: South



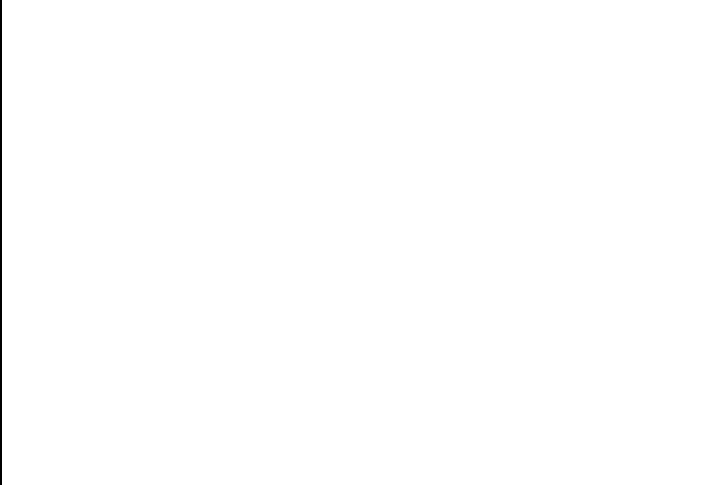
PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW36
-----------------	-------------

STATE	WI
--------------	----

COUNTY	Marquette
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Country	USA
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OPERATOR	W. Schlafke
-----------------	-------------

PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4861826.953	ELEV.	
EASTING	314720.336		256.465

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/7/2018	-
RTK	DAY OF YEAR	-	-

	OBS. A	OBS. B		U.T.C.
START TIME	-	-		
END TIME	-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO:

PHOTO: North



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW36
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW37
-----------------	-------------

STATE	WI
--------------	----

COUNTY	Marquette
---------------	-----------

Country	USA
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OPERATOR	W. Schlafke
-----------------	-------------

PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4862745.800	ELEV.	
EASTING	325836.426		243.938

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/7/2018	-
RTK	DAY OF YEAR	-	-

		OBS. A	OBS. B		U.T.C.
START TIME		-	-		
END TIME		-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW37
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW38
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STATE	WI
--------------	----

COUNTY	Marquette
---------------	-----------

Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4851833.360	ELEV.	
EASTING	311532.856		240.476

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/6/2018	-
RTK	DAY OF YEAR	-	-

	OBS. A	OBS. B		U.T.C.
START TIME	-	-		
END TIME	-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW38
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PHOTO: South



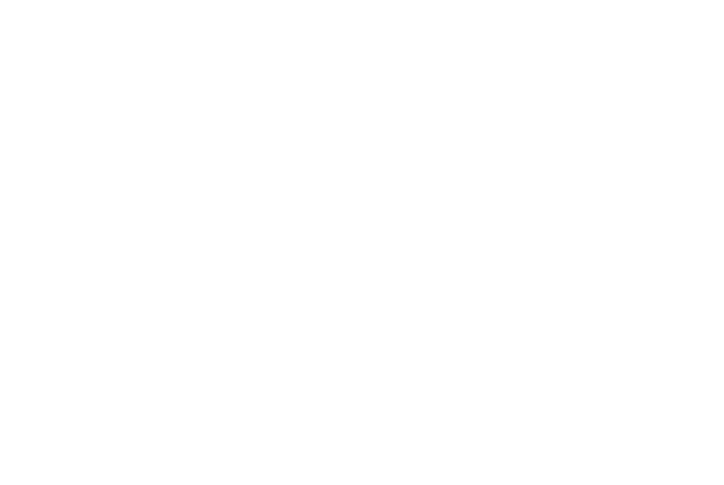
PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW39
-----------------	-------------

STATE	WI
--------------	----

COUNTY	Marquette
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Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4848609.886	ELEV.	
EASTING	325005.914		237.078

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/6/2018	-
RTK	DAY OF YEAR	-	-

	OBS. A	OBS. B		U.T.C.
START TIME	-	-		
END TIME	-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

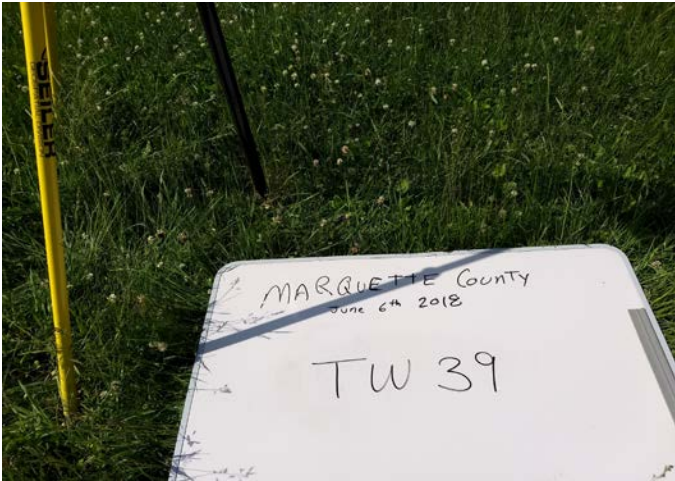
	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW39
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW40
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STATE	WI
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COUNTY	Marquette
---------------	-----------

Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4846130.709	ELEV.	
EASTING	309879.300		240.157

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/6/2018	-
RTK	DAY OF YEAR	-	-

	OBS. A	OBS. B		
START TIME	-	-		U.T.C.
END TIME	-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO:

PHOTO: North



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW40
-----------------	-------------

PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW41
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STATE	WI
--------------	----

COUNTY	Marquette
---------------	-----------

Country	USA
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OPERATOR	W. Schlafke
-----------------	-------------

PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4836599.100	ELEV.	
EASTING	291478.135		241.475

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/7/2018	-
RTK	DAY OF YEAR	-	-

		OBS. A	OBS. B		U.T.C.
START TIME		-	-		
END TIME		-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO:

PHOTO: North



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW41
-----------------	-------------

PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW42
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STATE	WI
--------------	----

COUNTY	Marquette
---------------	-----------

Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4835663.372	ELEV.	
EASTING	318121.762		260.822

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/6/2018	-
RTK	DAY OF YEAR	-	-

	OBS. A	OBS. B		
START TIME	-	-		U.T.C.
END TIME	-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO:

PHOTO: North



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW42
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:





**GPS CONTROL
FIELD DATA SHEET**

PAGE:
1

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA24
-----------------	-------------

STATE	WI
--------------	----

COUNTY	Marquette
---------------	-----------

Country	USA
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OPERATOR	W. Schlafke
-----------------	-------------

PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4872321.805		ELEV.
EASTING	302492.201		270.795

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

SESSIONS	DATE	OBS. A	OBS. B
		6/7/2018	-
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO:

PHOTO: North



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA24
-----------------	-------------

PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:





**GPS CONTROL
FIELD DATA SHEET**

PAGE:
1

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA26
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STATE	WI
--------------	----

COUNTY	Marquette
---------------	-----------

Country	USA
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OPERATOR	W. Schlafke
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**PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters**

NORTHING	4872181.418	ELEV.	
EASTING	325659.890		239.373

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/7/2018	-
RTK	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	X LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA26
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA27
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STATE	WI
-------	----

COUNTY	Marquette
--------	-----------

Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4861295.528	ELEV.	
EASTING	299504.371		266.169

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/7/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	X LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

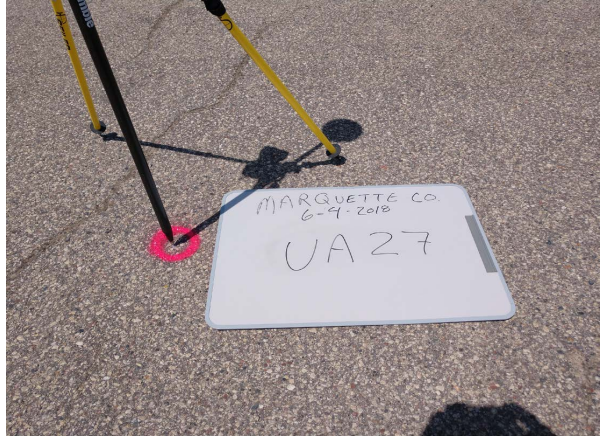
	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA27
-----------------	-------------

PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA29
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STATE	WI
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COUNTY	Marquette
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Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4861892.837	ELEV.	
EASTING	314664.058		257.557

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/7/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	X LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA29
----------	------

PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:





**GPS CONTROL
FIELD DATA SHEET**

PAGE:
1

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA30
-----------------	-------------

STATE	WI
--------------	----

COUNTY	Marquette
---------------	-----------

Country	USA
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OPERATOR	W. Schlafke
-----------------	-------------

PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4850869.686	ELEV.	
EASTING	292244.604		265.189

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/7/2018	-
RTK	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	X LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

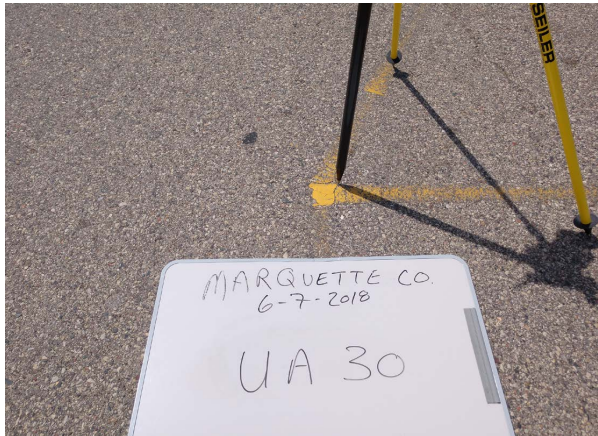
	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA30
----------	------

PHOTO: South



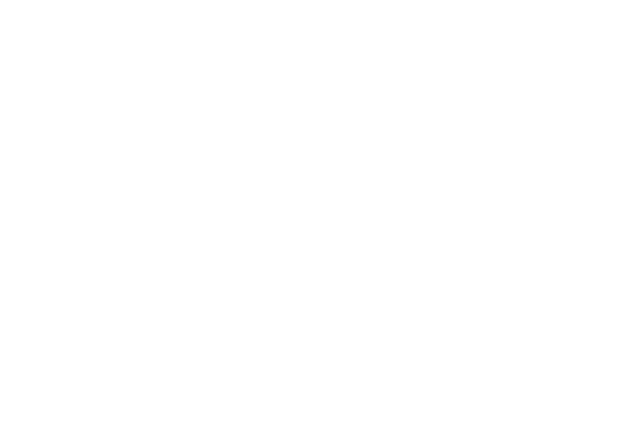
PHOTO: East



PHOTO: West



PHOTO:





**GPS CONTROL
FIELD DATA SHEET**

PAGE:
1

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA31
-----------------	-------------

STATE	WI
--------------	----

COUNTY	Marquette
---------------	-----------

Country	USA
----------------	-----

OPERATOR	W. Schlafke
-----------------	-------------

**PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters**

NORTHING	4851766.071	ELEV.	
EASTING	311589.625		240.246

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/6/2018	-
RTK	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	X LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA31
----------	------

PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:





**GPS CONTROL
FIELD DATA SHEET**

PAGE:
1

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA32
-----------------	-------------

STATE	WI
--------------	----

COUNTY	Marquette
---------------	-----------

Country	USA
----------------	-----

OPERATOR	W. Schlafke
-----------------	-------------

**PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters**

NORTHING	4851268.804	ELEV.	
EASTING	313671.233		245.270

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/6/2018	-
RTK	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	X LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

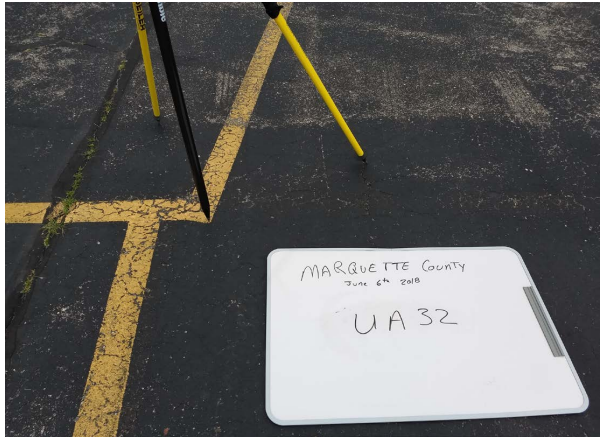
	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA32
----------	------

PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:





**GPS CONTROL
FIELD DATA SHEET**

PAGE:
1

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA33
-----------------	-------------

STATE	WI
--------------	----

COUNTY	Marquette
---------------	-----------

Country	USA
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OPERATOR	W. Schlafke
-----------------	-------------

PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4848620.543	ELEV.	
EASTING	325023.693		237.058

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/6/2018	-
RTK	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	X LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

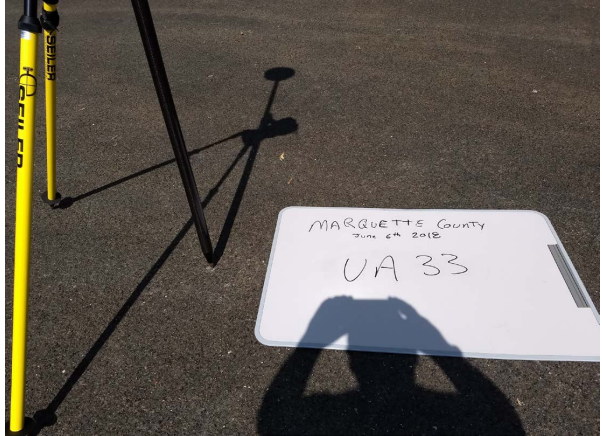
	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA33
----------	------

PHOTO: South



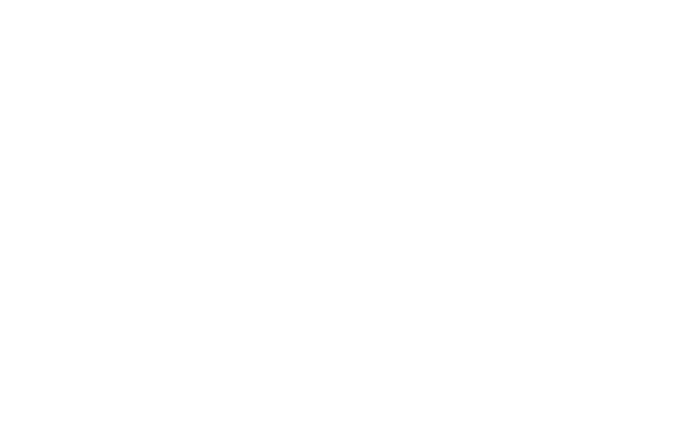
PHOTO: East



PHOTO: West



PHOTO:





**GPS CONTROL
FIELD DATA SHEET**

PAGE:
1

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA34
-----------------	-------------

STATE	WI
--------------	----

COUNTY	Marquette
---------------	-----------

Country	USA
----------------	-----

OPERATOR	W. Schlafke
-----------------	-------------

**PROJECT COORDINATE/ELEVATION SYSTEM
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters**

NORTHING	4836634.912	ELEV.	
EASTING	291443.771		242.910

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

		OBS. A	OBS. B
SESSIONS	DATE	6/7/2018	-
	DAY OF YEAR	-	-
RTK			

	OBS. A	OBS. B		U.T.C.
START TIME	-	-		
END TIME	-	-	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA34
-----------------	-------------

PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:





**GPS CONTROL
FIELD DATA SHEET**

PAGE:
1

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA35
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STATE	WI	COUNTY	Marquette	Country	USA
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OPERATOR	W. Schlafke
-----------------	-------------

PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4843220.315		ELEV.
EASTING	301379.677		239.094

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

SESSIONS	DATE	OBS. A	OBS. B
		6/7/2018	-
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO:

PHOTO: North



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA35
----------	------

PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA36
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STATE	WI
-------	----

COUNTY	Marquette
--------	-----------

Country	USA
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OPERATOR	W. Schlafke
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PROJECT COORDINATE/ELEVATION SYSTEM
 NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters

NORTHING	4835711.220	ELEV.	
EASTING	318120.339		261.236

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5418464136

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/6/2018	-	-
	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME		-	LOCAL
		-	X

ANTENNA HEIGHT (SLANT)	
MTRS/FT	
MEASURED	FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)	
MTRS/FT	2.000 Meters
MEASURED	X FIXED HGT

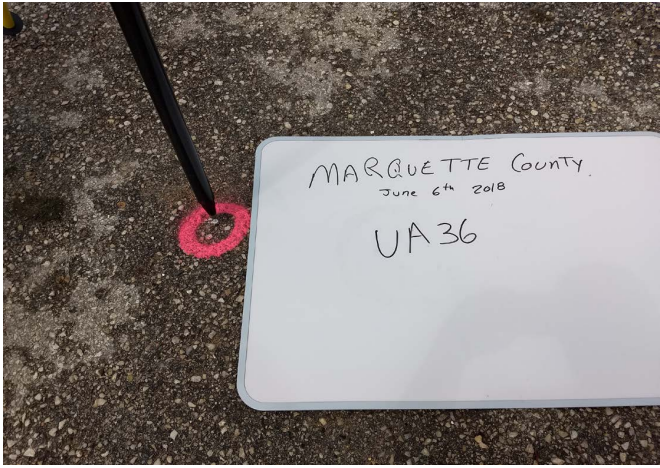
	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO:

PHOTO: North



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA36
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PHOTO: South



PHOTO: East



PHOTO: West



PHOTO:



Survey Report
USGS 3 Counties LIDAR Control Survey – Outagamie County
Ayres Project No. 72-0227.06

Client:	Quantum Spatial – 32963_WI_3 Counties_USGS
Type of Survey:	LIDAR Control Survey (USGS Specs)
Project Manager:	Zach Nienow
Survey Project Manager:	James Cappeart
RLS of Record:	James Cappeart
Crew Chief:	Tim Schroeder
Additional Field Crew:	Joe Jarosz
Project Start Date:	6/01/2018
Report Date:	6/29/2018

Control Summary

Horizontal Datum:	NAD83 (2011)
Vertical Datum:	NAVD88 (2012), GEOID12B
Rectangular Coordinate System:	UTM, Zone 16 North, Meters
Used NGS Control?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
List any NGS control points used:	Bear Creek N GPS - $\Delta N = -0.008M$ $\Delta E = -0.002M$ $\Delta Z = -0.014M$ Oneida GPS - $\Delta N = -0.007M$ $\Delta E = -0.003M$ $\Delta Z = 0.006M$ Maple Creek S GPS - $\Delta N = 0.007M$ $\Delta E = 0.007M$ $\Delta Z = -0.010M$ Dale S GPS - $\Delta N = -0.005M$ $\Delta E = -0.010M$ $\Delta Z = -0.010M$ Buchanan W GPS - $\Delta N = -0.005M$ $\Delta E = -0.004M$ $\Delta Z = -0.024M$
Summary of control checks and calibration (if applicable):	(See Field Notes for control checks on NGS monuments – No calibration was needed)
Survey Methods Used:	WISCORS Network through VRS connection was the origination of the control used with checks and calibration as discussed. GPS methods were used where VRS connection and obstructions permitted. Other areas used control set by VRS RTK methods and robotic total station methods were used.
Equipment Used:	GPS Trimble R8-3 GNSS S/N 5004413097 Trimble S-6 Robotic Total Station S/N 93410182

Utilities

Diggers Hotline Ticket #:	N/A
Locator Contact Info:	N/A
General Notes:	

Crew Chief Notes

<p>Set PK nails or spikes at control points used for total station measurements and for calibration points.</p> <p>Recorded appropriate: NVA (Bare Earth & Urban) and VVA (Forested, Swamp/Wetland, Tall Weed/Crop). Took (4) pictures of each point – one from each cardinal direction.</p>
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Survey Methods (continued)

Points not able to be directly occupied by GPS means were measured using Total Station methods from control point pairs set utilizing GPS methods outlined above.

Traffic Observations

Varied by Site.

Summary of RLS Decisions (Right of Way, Property Lines)

N/A

Survey Data Not Collected

GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE12
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM			
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4938878.810		ELEV.
EASTING	363733.005		243.202

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/5/2018	-	-
	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO: North

PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE12
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PHOTO: South



PHOTO: West



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE13
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM			
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4938663.669		ELEV.
EASTING	373699.933		239.811

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/5/2018	-	-
	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO: North

PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE13
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PHOTO: South



PHOTO: West



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE14
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM			
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4937903.818		ELEV.
EASTING	394798.080		261.686

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/5/2018	-	-
	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO: North

PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE14
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PHOTO: South



PHOTO: West



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE15
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM			
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4921155.077		ELEV.
EASTING	362673.899		251.348

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/6/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	X LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO: North

PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE15
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE16
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4922221.386		ELEV.
EASTING	374351.197		233.885

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/6/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO: North

PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE16
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE17
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4919720.059		ELEV.
EASTING	384016.775		257.653

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	DAY OF YEAR		
RTK	6/6/2018	-	-
	-	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO: North

PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE17
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE18
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4922058.208		ELEV.
EASTING	394045.138		245.029

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/6/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO: North

PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE18
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PHOTO: South



PHOTO: West



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE19
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM			
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4920277.308		ELEV.
EASTING	405152.379		215.010

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/6/2018	-	-
	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO: North

PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE19
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE20
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4901121.001		ELEV.
EASTING	363560.063		243.217

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	DAY OF YEAR		
RTK	6/7/2018	-	-
	-	-	-

START TIME	OBS. A	OBS. B	U.T.C.
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO: North

PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE20
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE21
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM			
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4901732.868		ELEV.
EASTING	374644.718		239.804

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/7/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO: North

PHOTO: East



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE21
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE22
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4902868.398		ELEV.
EASTING	393577.152		223.009

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/7/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO: North

PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE22
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE23
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4900727.644		ELEV.
EASTING	404843.873		241.262

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/7/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: BARE EARTH

PHOTO: North

PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	BE23
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA12
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STATE	WI
--------------	----

COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4938900.567		ELEV.
EASTING	363730.923		243.356

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	DAY OF YEAR		
RTK	6/5/2018	-	-
	-	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
			X

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: CALIBRATION POINT

PHOTO: North

PHOTO: East



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA12
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA13
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4938664.944		ELEV.
EASTING	373681.189		241.712

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	DAY OF YEAR		
RTK	6/5/2018	-	-
	-	-	-

START TIME	OBS. A	OBS. B	U.T.C.
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: CALIBRATION POINT

PHOTO: North

PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA13
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA14
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4938284.442		ELEV.
EASTING	385124.534		241.370

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	6/5/2018	-	-
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
			X

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: CALIBRATION POINT

PHOTO: North

PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA14
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA15
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4937933.290		ELEV.
EASTING	394797.859		262.866

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	6/5/2018	-	-
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
			X

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: CALIBRATION POINT

PHOTO: North

PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA15
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA16
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4937289.570		ELEV.
EASTING	405545.352		234.621

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	6/5/2018	-	-
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: CALIBRATION POINT

PHOTO: North

PHOTO: East



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA16
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA17
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4921167.900		ELEV.
EASTING	362699.305		251.587

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/6/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: CALIBRATION POINT

PHOTO: North

PHOTO: East



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA17
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PHOTO: South



PHOTO: West



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA18
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM			
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4922233.472		ELEV.
EASTING	374321.867		233.913

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/6/2018	-	-
	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: CALIBRATION POINT

PHOTO: North

PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA18
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA19
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4919703.409		ELEV.
EASTING	383998.751		257.648

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/6/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: CALIBRATION POINT

PHOTO: North

PHOTO: East



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA19
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA20
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4922056.792		ELEV.
EASTING	394058.449		245.684

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	DAY OF YEAR		
RTK	6/6/2018	-	-
		-	-

START TIME	OBS. A	OBS. B	U.T.C.
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: CALIBRATION POINT

PHOTO: North

PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA20
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA21
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4920283.313		ELEV.
EASTING	405154.285		215.054

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/6/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: CALIBRATION POINT

PHOTO: North

PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA21
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA22
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4901110.372		ELEV.
EASTING	363562.290		243.149

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/7/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: CALIBRATION POINT

PHOTO: North

PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA22
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA23
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM			
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4901729.995		ELEV.
EASTING	374639.638		239.783

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/7/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	X LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: CALIBRATION POINT

PHOTO: North

PHOTO: East



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA23
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA24
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4902557.529		ELEV.
EASTING	383027.249		236.012

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/7/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: CALIBRATION POINT

PHOTO: North

PHOTO: East



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA24
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA25
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4902862.848		ELEV.
EASTING	393564.211		223.221

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/7/2018	-	-
	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: CALIBRATION POINT

PHOTO: North

PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA25
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA26
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4900772.813		ELEV.
EASTING	404836.984		241.664

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/7/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: CALIBRATION POINT

PHOTO: North

PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	CA26
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	FO04
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4937271.166		ELEV.
EASTING	405488.994		234.167

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/5/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: FOREST AREA

PHOTO: North

PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	FO04
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	FO05
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4912749.791		ELEV.
EASTING	384496.989		239.905

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	DAY OF YEAR		
RTK	6/6/2018	-	-
		-	-

START TIME	OBS. A	OBS. B	U.T.C.
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: FOREST AREA

PHOTO: North

PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	FO05
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	FO06
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4901126.021		ELEV.
EASTING	363602.834		243.773

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	DAY OF YEAR		
RTK	6/7/2018	-	-
		-	-

START TIME	OBS. A	OBS. B	U.T.C.
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: FOREST AREA

PHOTO: North

PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	FO06
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW16
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4938808.197		ELEV.
EASTING	363782.272		243.006

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/5/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

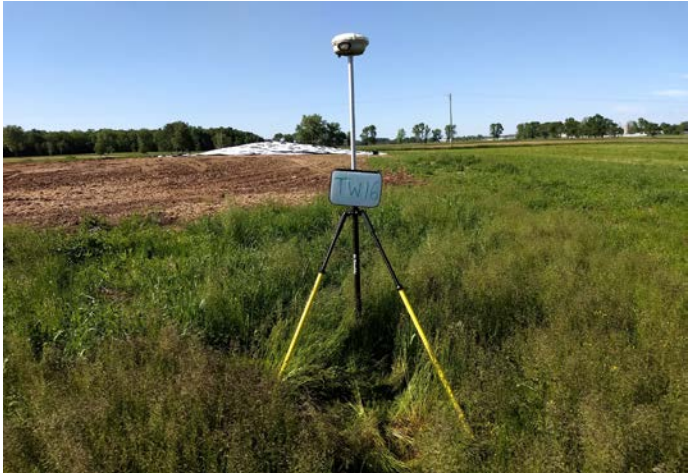
	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO: North

PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW16
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW17
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM			
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4938695.428		ELEV.
EASTING	373651.768		239.674

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/5/2018	-	-
	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO: North

PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW17
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW18
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4938247.382		ELEV.
EASTING	385131.985		241.952

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	DAY OF YEAR		
RTK	6/5/2018	-	-
	-	-	-

START TIME	OBS. A	OBS. B	U.T.C.
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO: North

PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW18
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW19
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4937918.470		ELEV.
EASTING	394825.803		262.348

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	DAY OF YEAR		
RTK	6/5/2018	-	-
	-	-	-

START TIME	OBS. A	OBS. B	U.T.C.
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO: North

PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW19
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW20
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4921184.310		ELEV.
EASTING	362690.100		252.090

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/6/2018	-	-
	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO: North

PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW20
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW21
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4919734.407		ELEV.
EASTING	384008.850		257.644

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	DAY OF YEAR		
RTK	6/6/2018	-	-
	-	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
			X

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: **TALL WEEDS**

PHOTO: North

PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW21
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW22
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4922042.955		ELEV.
EASTING	394049.023		245.580

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/6/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: **TALL WEEDS**

PHOTO: North

PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW22
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW23
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4920297.957		ELEV.
EASTING	405149.928		214.337

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	6/6/2018	-	-
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO: North

PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW23
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW24
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM			
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4915134.580		ELEV.
EASTING	362677.936		233.960

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/6/2018	-	-
	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO: North

PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW24
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW25
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4912736.542		ELEV.
EASTING	384442.636		240.313

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/6/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO: North

PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW25
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW26
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4914939.253		ELEV.
EASTING	396814.211		228.344

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/6/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO: North

PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW26
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW27
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4901058.029		ELEV.
EASTING	363595.792		241.745

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	DAY OF YEAR		
RTK	6/7/2018	-	-
	-	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
			X

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO: North

PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW27
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW28
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4901764.617		ELEV.
EASTING	374614.512		237.811

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/7/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO: North

PHOTO: East



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW28
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW29
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4901112.588		ELEV.
EASTING	399608.010		223.194

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	DAY OF YEAR		
RTK	6/7/2018	-	-
		-	-

START TIME	OBS. A	OBS. B	U.T.C.
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO: North

PHOTO: East



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW29
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW30
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4900750.076		ELEV.
EASTING	404853.575		241.301

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/7/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: TALL WEEDS

PHOTO: North

PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	TW30
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA12
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4938672.015		ELEV.
EASTING	373681.135		241.543

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/5/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: **URBAN AREA**

PHOTO: North

PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA12
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA13
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4938282.984		ELEV.
EASTING	385119.822		241.489

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/5/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO: North

PHOTO: East



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA13
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA14
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4937932.454		ELEV.
EASTING	394803.300		262.803

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	DAY OF YEAR		
RTK	6/5/2018	-	-
	-	-	-

START TIME	OBS. A	OBS. B	U.T.C.
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO: North

PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA14
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA15
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4937302.711		ELEV.
EASTING	405548.252		234.811

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/5/2018	-	-
	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO: North

PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA15
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA16
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4922236.247		ELEV.
EASTING	374326.434		233.763

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/6/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	X LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO: North

PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA16
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA17
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4922057.396		ELEV.
EASTING	394053.338		245.465

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/6/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: **URBAN AREA**

PHOTO: North

PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA17
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA18
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM			
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4915184.265		ELEV.
EASTING	362711.578		235.601

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/6/2018	-	-
	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO: North

PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA18
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA19
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4914932.604		ELEV.
EASTING	396843.126		229.012

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/6/2018	-	-
	DAY OF YEAR	-	-

	OBS. A	OBS. B	
START TIME	-	-	U.T.C.
END TIME	-	-	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO: North

PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA19
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA20
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4901726.967		ELEV.
EASTING	374639.714		239.838

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	DAY OF YEAR		
RTK	6/7/2018	-	-
		-	-

START TIME	OBS. A	OBS. B	U.T.C.
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO: North

PHOTO: East



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA20
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA21
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4903417.890		ELEV.
EASTING	379457.979		266.222

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	6/7/2018	-	-
RTK	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
			X

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO: North

PHOTO: East



**GPS CONTROL
FIELD DATA SHEET**

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA21
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PHOTO: South



PHOTO: West



GPS CONTROL FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA22
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM			
NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4902550.619		ELEV.
EASTING	383032.263		235.965

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
RTK	6/7/2018	-	-
	DAY OF YEAR	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO: North

PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA22
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA23
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4902868.969		ELEV.
EASTING	393551.566		223.389

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	DAY OF YEAR		
RTK	6/7/2018	-	-
	-	-	-

START TIME	OBS. A	OBS. B	U.T.C.
	-	-	
END TIME	-	-	LOCAL
			X

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO: North

PHOTO: East



GPS CONTROL
FIELD DATA SHEET

JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA23
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PHOTO: South



PHOTO: West



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA25
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STATE	WI
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COUNTY	Outagamie
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Country	USA
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OPERATOR	T. Schroeder
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PROJECT COORDINATE/ELEVATION SYSTEM NAD83(2011), UTM Zone 16 North, Meters; NAVD88, GEOID12b, Meters			
NORTHING	4901304.097		ELEV.
EASTING	399861.265		222.519

RECEIVER MODEL	Trimble R8-3 Integrated Antenna
RECEIVER S/N	5004413097

SESSIONS	DATE	OBS. A	OBS. B
	DAY OF YEAR		
RTK	6/7/2018	-	-
	-	-	-

START TIME	OBS. A	OBS. B	U.T.C.
END TIME	-	-	LOCAL
		X	

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

ANTENNA HEIGHT (VERTICAL)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

	AERIAL TARGET
	PUB. BENCH MARK
	PUB. CONTROL

	PHOTO I.D.
X	NEW CONTROL
	BASE STATION

Type: URBAN AREA

PHOTO: North

PHOTO: East



JOB REFERENCE	32963_WI_3 Counties_USGS
Project No.	72-0227.06

Point ID	UA25
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PHOTO: South



PHOTO: West

