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eBee

senseFly

Extended User Manual

eBee and eBee NIR

Revision 9 / January 22, 2014

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The logo for senseFly, featuring a stylized bird icon above the text "senseFly".

GENERAL INFORMATION

READ THIS USER MANUAL CAREFULLY BEFORE USING A SENSEFLY LTD PRODUCT.

senseFly Ltd products are intended for professional use only.

Applicable Regulations

senseFly Ltd products are subject to Civil Aviation regulations. Regulations may vary depending on the country where you intend to operate your product.

ANY USE OF SENSEFLY LTD PRODUCTS IN BREACH OF THE LAW OF THE COUNTRY WHERE YOU OPERATE THE PRODUCT IS UNDER YOUR SOLE RESPONSIBILITY.

INFORM YOURSELF BEFORE USING THE PRODUCT. SOME COUNTRIES MAY HAVE LAWS THAT LIMIT THE USE OF UNMANNED AIRCRAFT TO 'LINE-OF-SIGHT' OPERATIONS AND/OR PROHIBIT THE USE OF UNMANNED AIRCRAFT AT ALL OR IN SPECIFIC AREAS.

Privacy

Recording and circulating an image of an individual may constitute an infringement of their image and privacy for which you can be liable. Ask for authorization before taking pictures of an individual, particularly if you want to keep your recordings and/or circulate images on the Web or any other medium. Do not circulate degrading images or ones that could undermine the reputation or dignity of an individual. Check that your use of the cameras on board senseFly Ltd products comply with the legal provision on privacy in the country where you operate your product.

Limited Warranty

SenseFly Ltd warrants that the product will be free from defects in material and workmanship for a period of twelve (12) months from the date of delivery. SenseFly Ltd further warrants that the product will perform substantially in accordance with its specification. During the warranty period senseFly Ltd's sole liability shall be at senseFly Ltd's sole option, either to repair or to replace the defective product with another product or a product with similar specifications, at no charge, or to reimburse the purchase price of the product, or if repair or replacement is not possible, issue a credit note; provided however, that the defect has been confirmed by senseFly Ltd and that the defective product is returned to senseFly Ltd in accordance with the support and repair form together with all required flight logfiles.

Warranty does not apply, without limitation, in case: a) the products are not stored and used according to their specifications, b) the products are damaged due to carelessness, negligence, or wrong use by the user, and c) for defects due to normal wear and tear including, but not limited to, deterioration to the airframe after first flight, normal degradation, misuse, moisture or liquids, proximity or exposure to heat, accidents, excessive strain, abuse, neglect, misapplication, repairs or modifications made by third party other than senseFly Ltd, damage due to manual operation, damage due to take-off or landing location with obstacles, damage due to low altitude flight, damage due to loss of data radio connection, damage due to strong wind, rain or humidity, or other causes for which senseFly Ltd has no control.

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Website: <http://www.sensefly.com>

Technical support

If you have questions on your *eBee* or accompanying software please consult senseFly Ltd's Technical support website at the following address:

<http://www.sensefly.com/support/>



CSRS-PPP (V 1.05 34613)



LogX_OEFM

Data Start	Data End	Duration of Observations
2015-07-13 13:31:30.000	2015-07-13 17:59:30.000	4h 28m 0.00s
Apri / Aposteriori Phase Std		Apri / Aposteriori Code Std
0.015m / 0.008m		2.0m / 2.169m
Observations	Frequency	Mode
Phase and Code	L1 and L2	Static
Elevation Cut-Off	Rejected Epochs	Observation & Estimation Steps
10.000 degrees	0.71 %	1.00 sec / 30.00 sec
Antenna Model	APC to ARP	ARP to Marker
-Unknown-	Ant. not in PPP (0 m)	0.000 m

(APC = antenna phase center; ARP = antenna reference point)

Estimated Position for LogX194n.15o

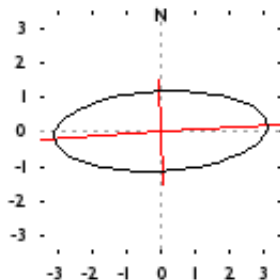
	Latitude (+n)	Longitude (+e)	Ell. Height
NAD83(CSRS) (1997)	48° 26' 43.4293''	-81° 06' 13.8245''	253.872 m
Sigmas(95%)	0.009 m	0.025 m	0.038 m
Apriori	48° 26' 43.441''	-81° 06' 13.872''	251.080 m
Estimated - Apriori	-0.362 m	0.979 m	2.793 m

**Orthometric Height
CGVD28 (HTv2.0)**

291.111 m

(click here for model and accuracy)

95% Error Ellipse (cm)
semi-major: 3.113cm
semi-minor: 1.151cm
semi-major azimuth: 86° 55' 5.76''



UTM (North) Zone 17

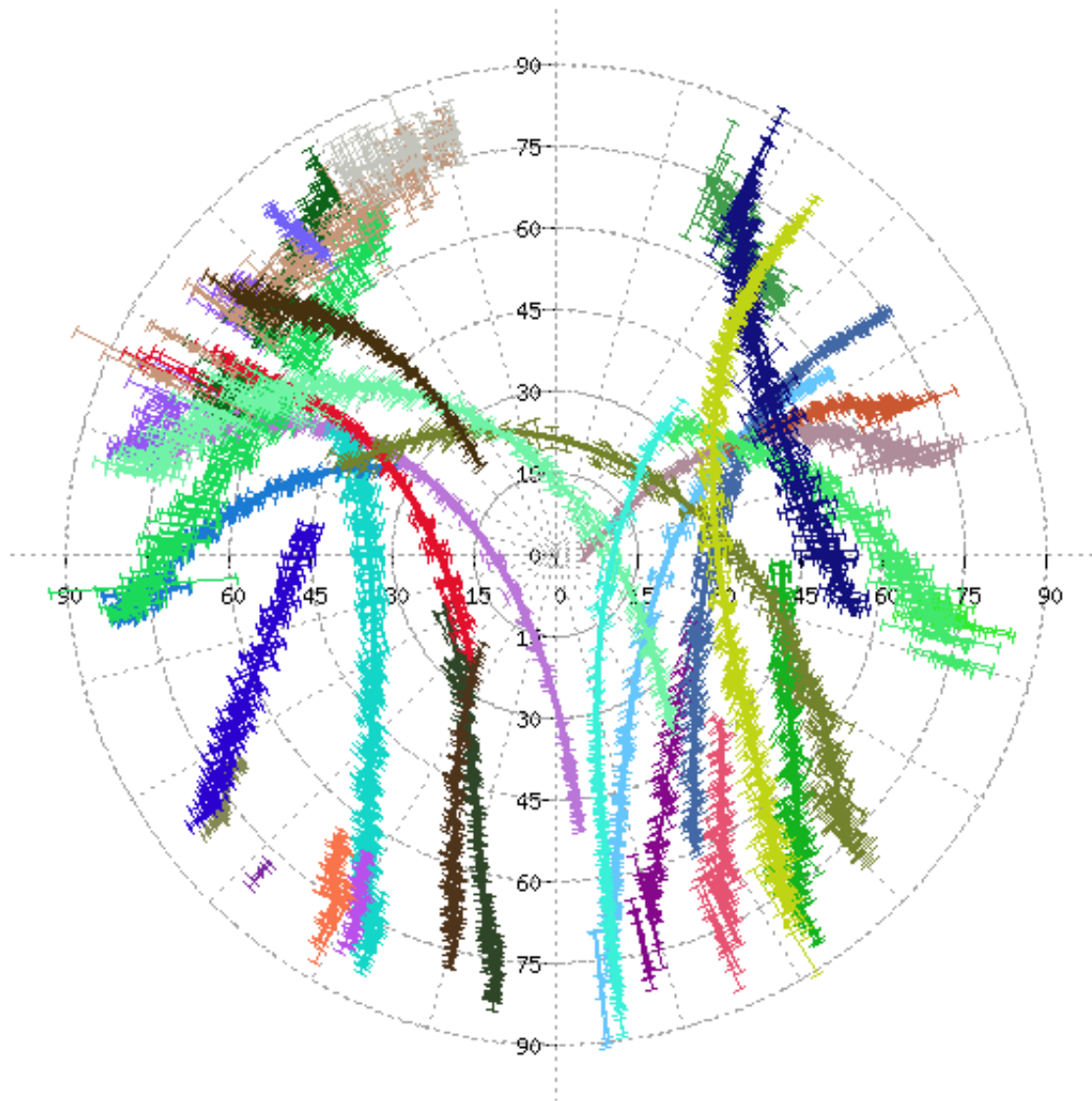
5365811.389m (N) 492320.902m (E)

Scale Factors
0.99960072 (point)
0.99956089 (combined)

(Coordinates from RINEX file used as apriori position)

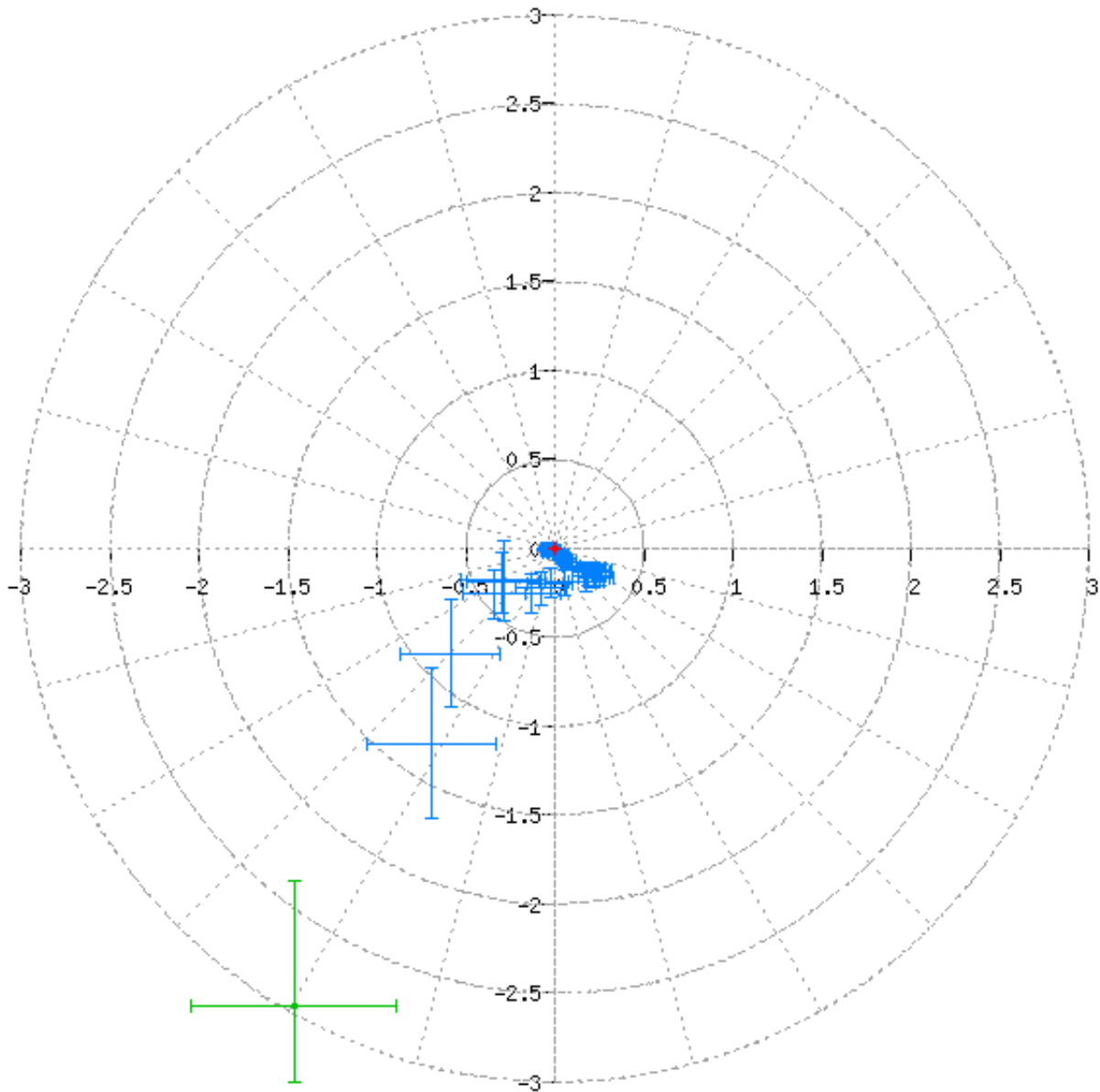
Estimated Parameters & Observations Statistics




Pseudo-Range Residuals Sky Distribution



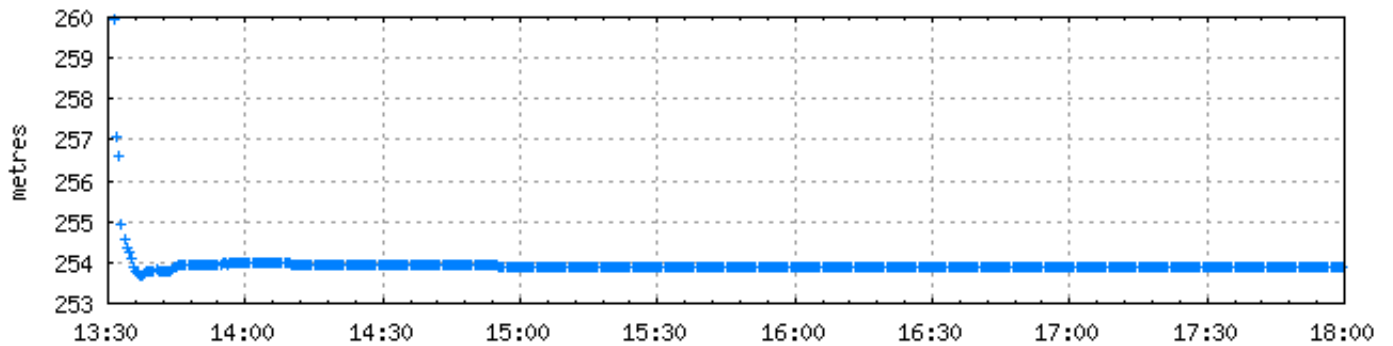
- | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|--|
| PRN01 | PRN10 | PRN19 | PRN30 | R__04 | R__14 | R__22 | |
| PRN03 | PRN11 | PRN23 | PRN31 | R__05 | R__15 | R__23 | |
| PRN04 | PRN13 | PRN26 | R__01 | R__11 | R__17 | R__24 | |
| PRN07 | PRN16 | PRN27 | R__02 | R__12 | R__20 | | |
| PRN09 | PRN17 | PRN28 | R__03 | R__13 | R__21 | | |

Corrections to a priori position (minus final corrections) (metres)

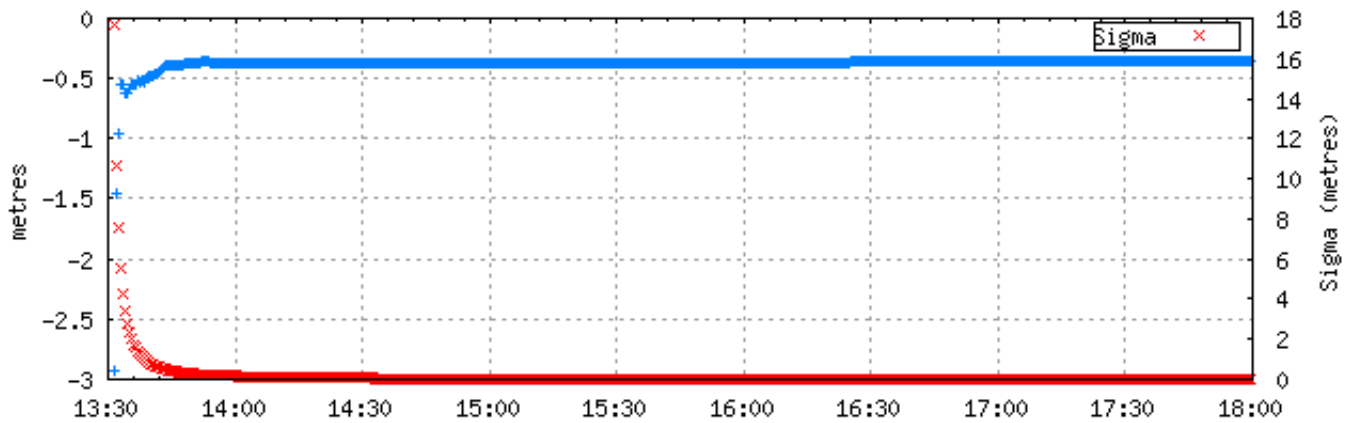


(1 sigma std of position corrections) / 25 
(1 sigma std of initial position correction) / 25 
(1 sigma std of final position correction) / 25 

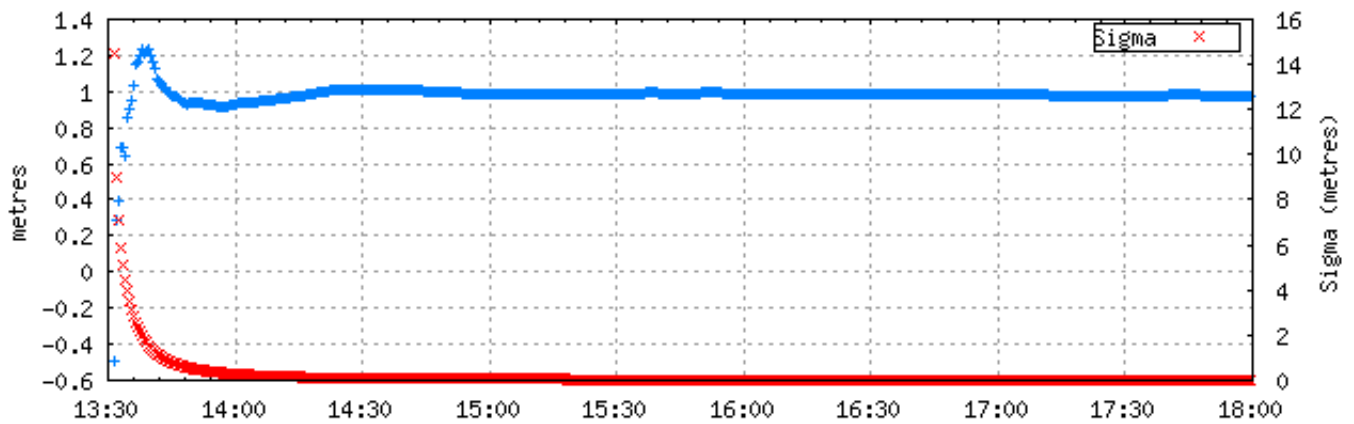
Ellipsoidal Height Profile (2015-07-13 13:31:30.000 GPS)



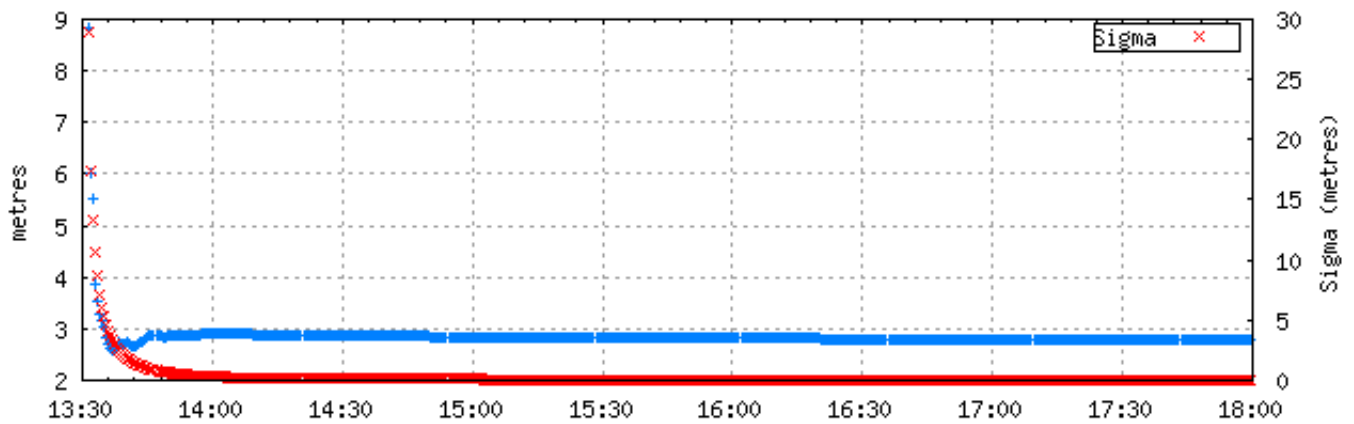
Latitude Differences (2015-07-13 13:31:30.000 GPS)



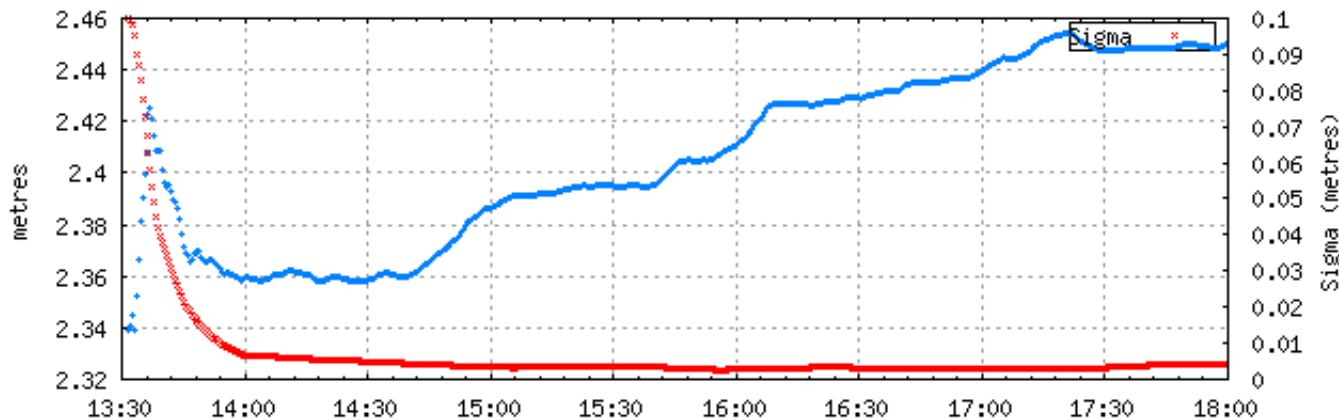
Longitude Differences (2015-07-13 13:31:30.000 GPS)



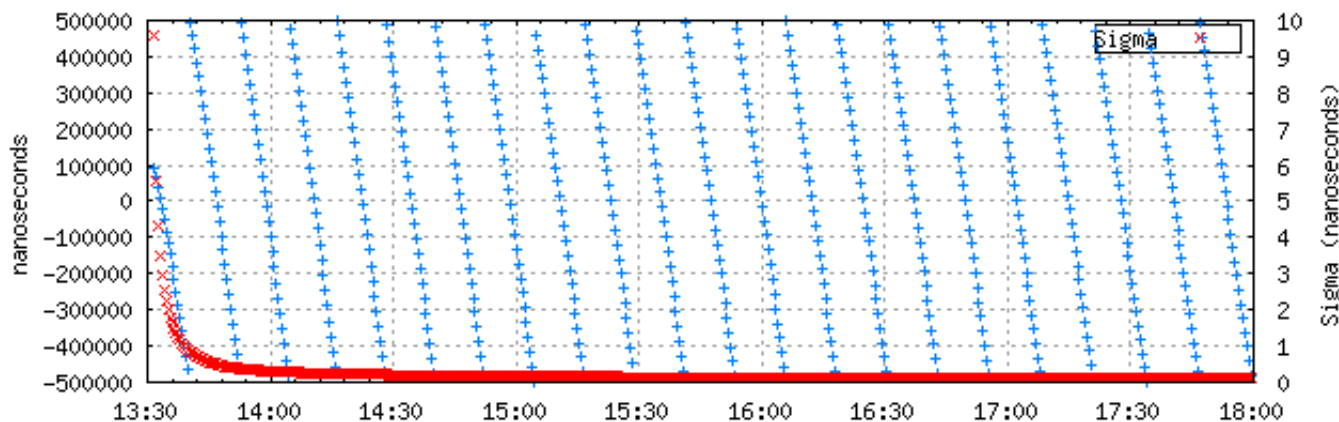
Height Differences (2015-07-13 13:31:30.000 GPS)



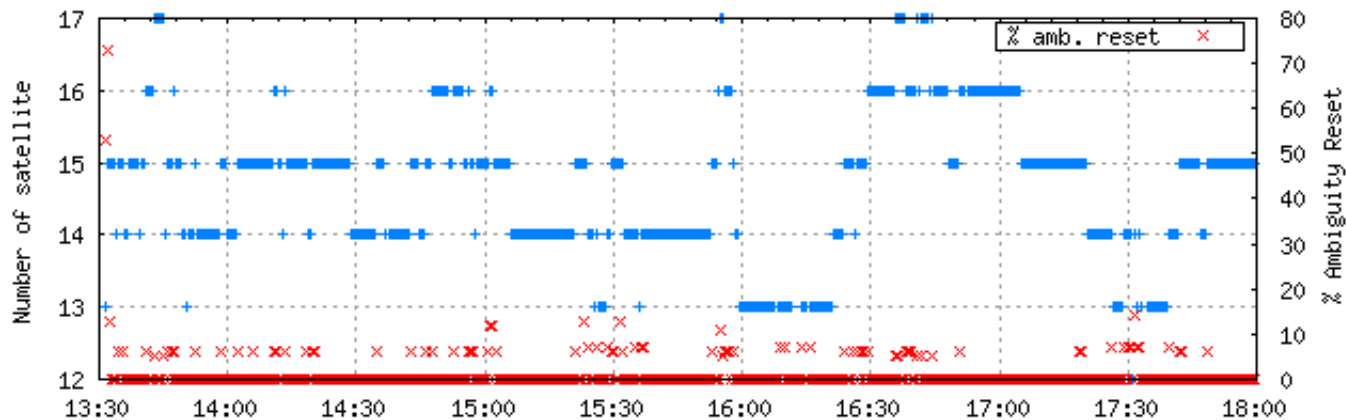
Estimated Tropospheric Zenith Delay (2015-07-13 13:31:30.000 GPS)



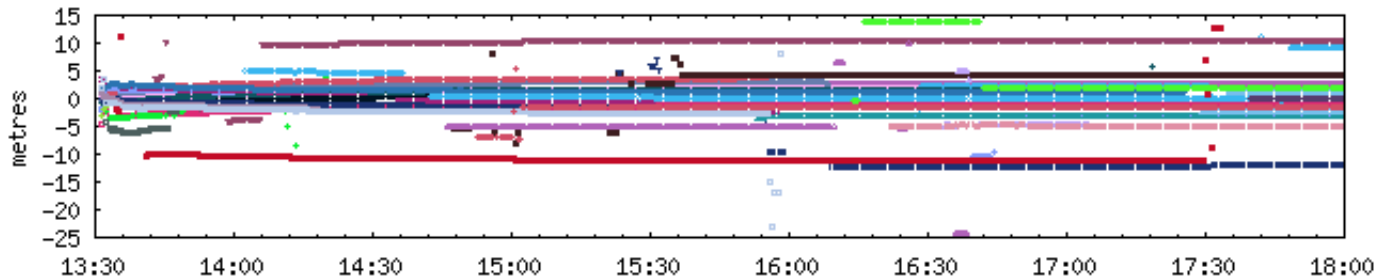
Station Clock Offset (2015-07-13 13:31:30.000 GPS)



Tracked Satellites and Reset Ambiguities (2015-07-13 13:31:30.000 GPS)

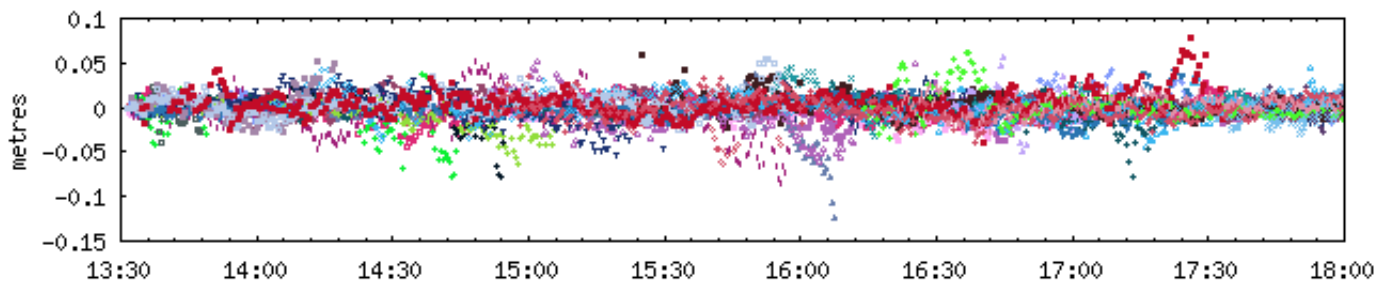


Ambiguities (2015-07-13 13:31:30.000 GPS)



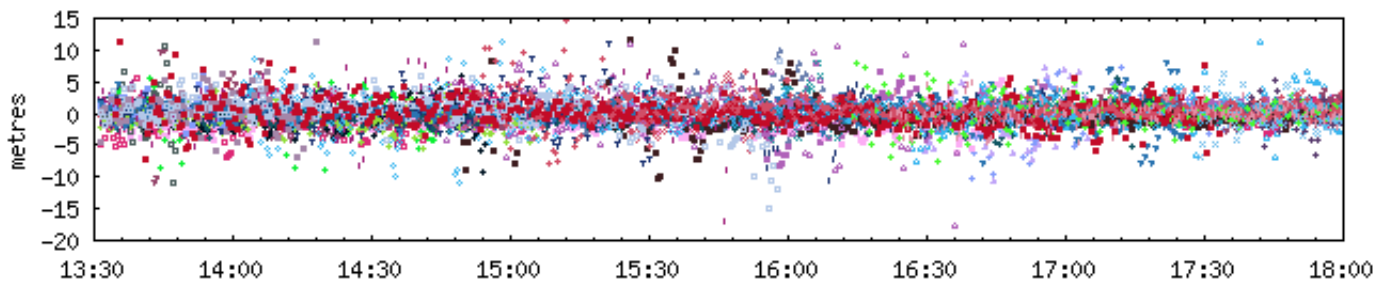
PRN01	+	PRN09	+	PRN16	+	PRN26	+	PRN31	+	R__04	+	R__13	+	R__20	+	R__24	+
PRN03	x	PRN10	+	PRN17	+	PRN27	+	R__01	+	R__05	+	R__14	+	R__21	+		
PRN04	+	PRN11	+	PRN19	+	PRN28	x	R__02	+	R__11	+	R__15	+	R__22	+		
PRN07	+	PRN13	+	PRN23	+	PRN30	+	R__03	+	R__12	+	R__17	+	R__23	+		

Carrier-Phase Residuals (2015-07-13 13:31:30.000 GPS)



PRN01	+	PRN09	+	PRN16	+	PRN26	+	PRN31	+	R__04	+	R__13	+	R__20	+	R__24	+
PRN03	x	PRN10	+	PRN17	+	PRN27	+	R__01	+	R__05	+	R__14	+	R__21	+		
PRN04	+	PRN11	+	PRN19	+	PRN28	x	R__02	+	R__11	+	R__15	+	R__22	+		
PRN07	+	PRN13	+	PRN23	+	PRN30	+	R__03	+	R__12	+	R__17	+	R__23	+		

Pseudo-Range Residuals (2015-07-13 13:31:30.000 GPS)



PRN01	+	PRN09	+	PRN16	+	PRN26	+	PRN31	+	R__04	+	R__13	+	R__20	+	R__24	+
PRN03	x	PRN10	+	PRN17	+	PRN27	+	R__01	+	R__05	+	R__14	+	R__21	+		
PRN04	+	PRN11	+	PRN19	+	PRN28	x	R__02	+	R__11	+	R__15	+	R__22	+		
PRN07	+	PRN13	+	PRN23	+	PRN30	+	R__03	+	R__12	+	R__17	+	R__23	+		

CSRS-PPP NAD83(CSRS) Processing Data Rate -- Warning --

Due to high original data rate, data processed at 30 second interval.
Position estimates should not be affected.

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If you have any questions, please feel free to contact:

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CSRS-PPP (V 1.05 34613)



log0714o_OEFM

Data Start	Data End	Duration of Observations
2015-07-14 14:29:29.997	2015-07-14 16:34:30.000	2h 5m 0.00s
Apri / Aposteriori Phase Std		Apri / Aposteriori Code Std
0.015m / 0.010m		2.0m / 1.343m
Observations	Frequency	Mode
Phase and Code	L1 and L2	Static
Elevation Cut-Off	Rejected Epochs	Observation & Estimation Steps
10.000 degrees	0.08 %	1.00 sec / 30.00 sec
Antenna Model	APC to ARP	ARP to Marker
-Unknown-	Ant. not in PPP (0 m)	0.000 m

(APC = antenna phase center; ARP = antenna reference point)

Estimated Position for log0195o.15o

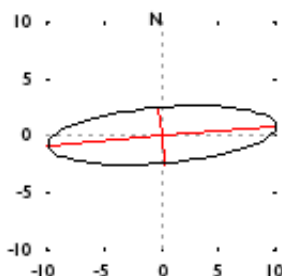
	Latitude (+n)	Longitude (+e)	Ell. Height
NAD83(CSRS) (1997)	48° 26' 59.7081''	-81° 08' 34.3816''	258.416 m
Sigmas(95%)	0.021 m	0.080 m	0.060 m
Apriori	48° 26' 59.735''	-81° 08' 34.402''	257.364 m
Estimated - Apriori	-0.818 m	0.424 m	1.052 m

**Orthometric Height
CGVD28 (HTv2.0)**

295.656 m

(click here for model and accuracy)

95% Error Ellipse (cm)
semi-major: 9.973cm
semi-minor: 2.455cm
semi-major azimuth: 85° 12' 11.70''



UTM (North) Zone 17

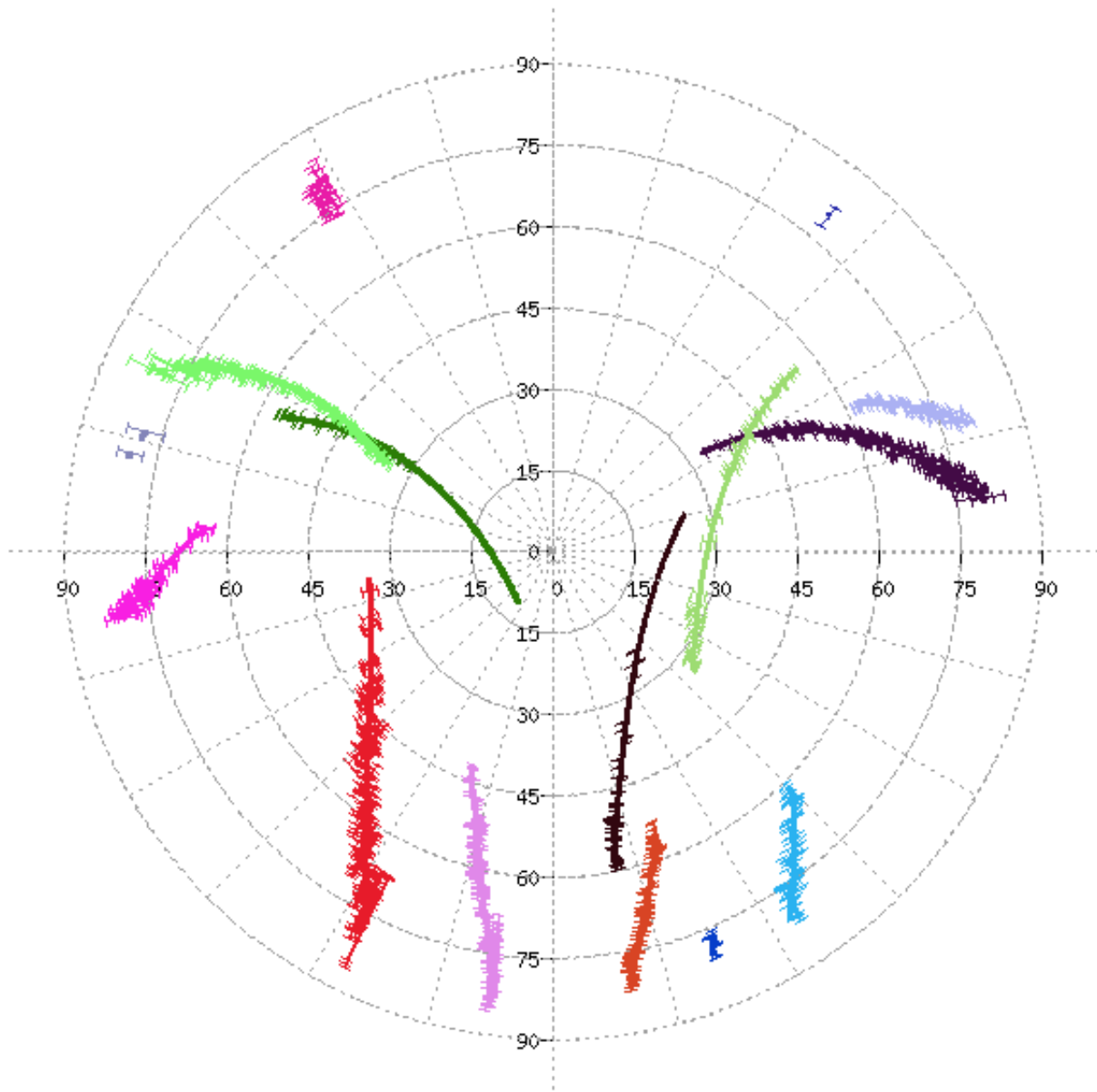
5366318.669m (N) 489434.519m (E)

Scale Factors
0.99960137 (point)
0.99956083 (combined)

(Coordinates from RINEX file used as apriori position)

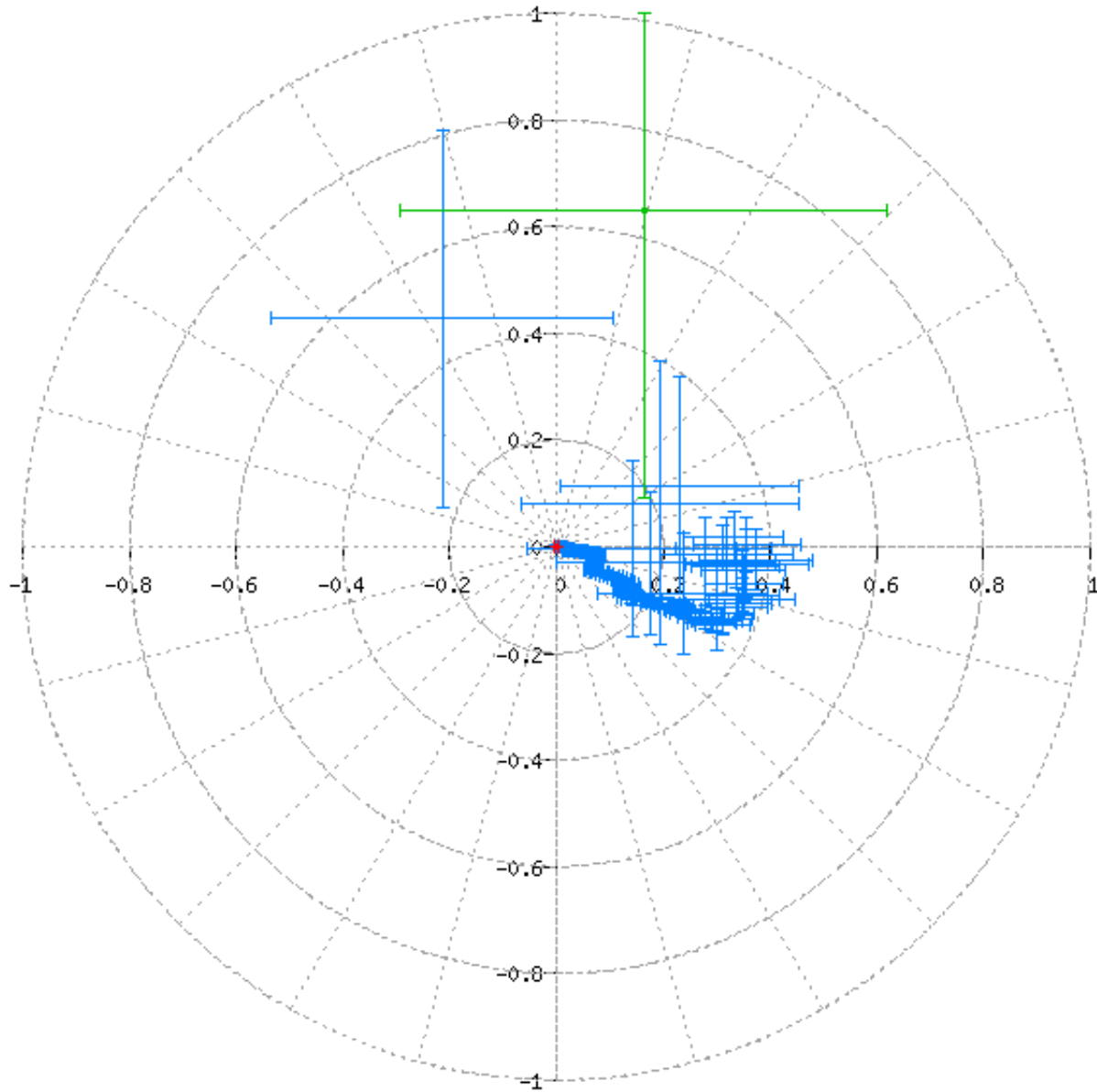
Estimated Parameters & Observations Statistics




Pseudo-Range Residuals Sky Distribution



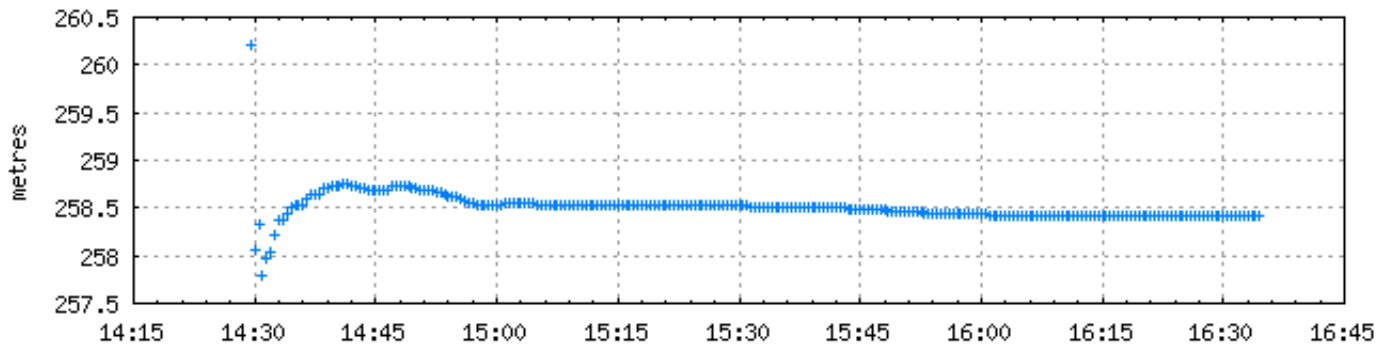
PRN01 PRN07 PRN10 PRN13 PRN19 PRN23 PRN27 PRN30
PRN04 PRN09 PRN11 PRN16 PRN21 PRN26 PRN28

Corrections to apriori position (minus final corrections) (metres)

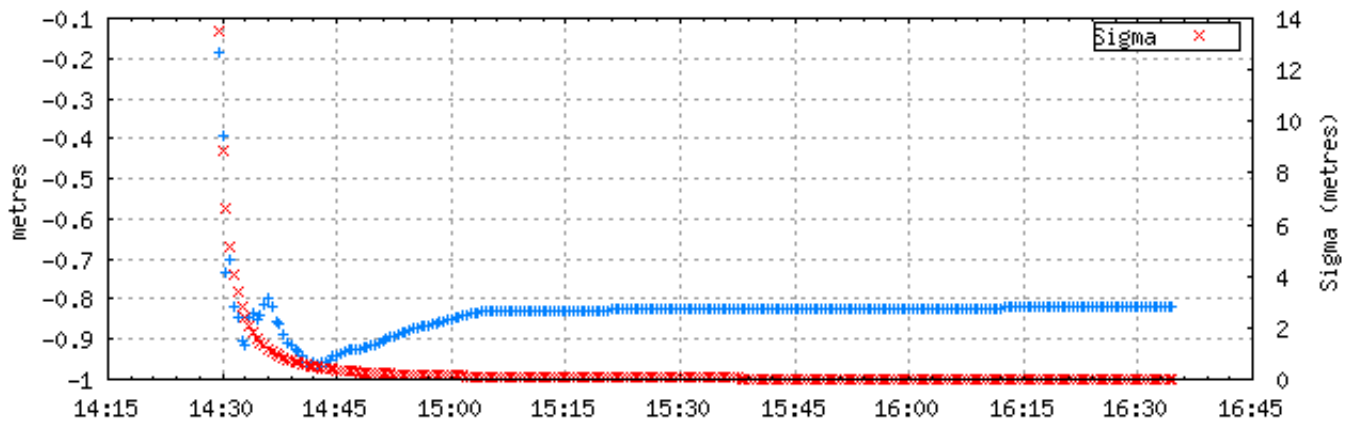


(1 sigma std of position corrections) / 25 
(1 sigma std of initial position correction) / 25 
(1 sigma std of final position correction) / 25 

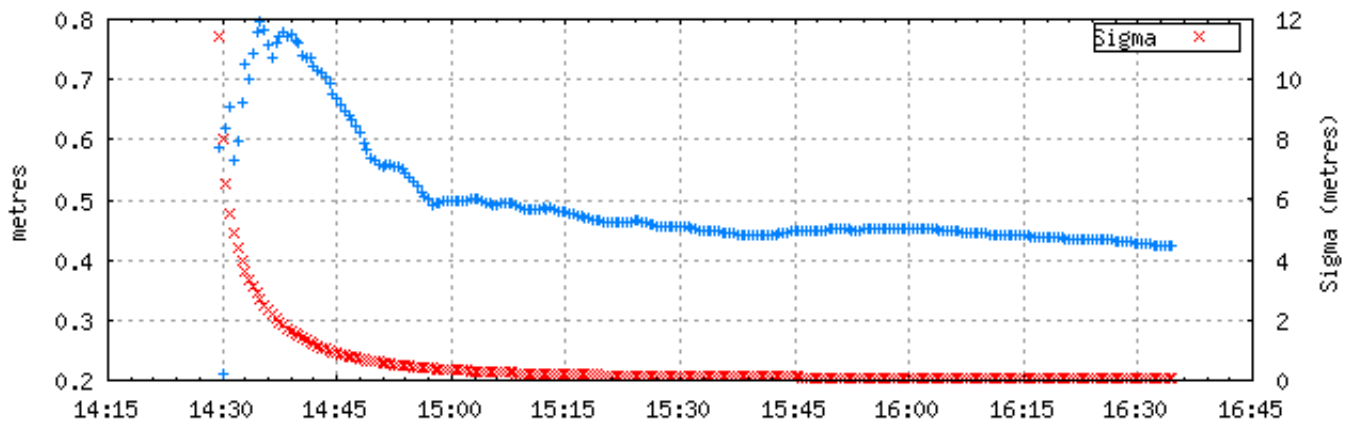
Ellipsoidal Height Profile (2015-07-14 14:29:30.007 GPS)



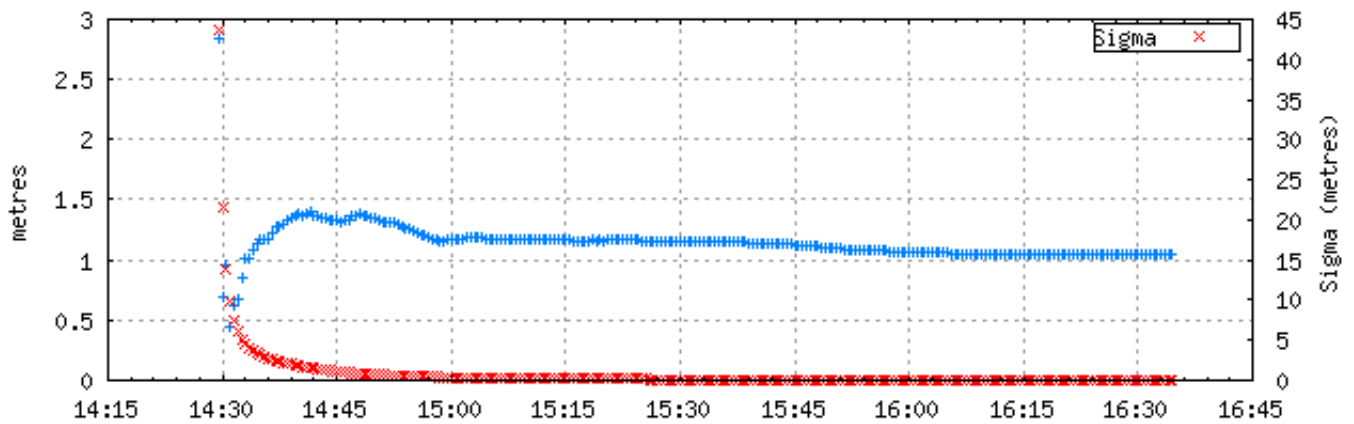
Latitude Differences (2015-07-14 14:29:30.007 GPS)



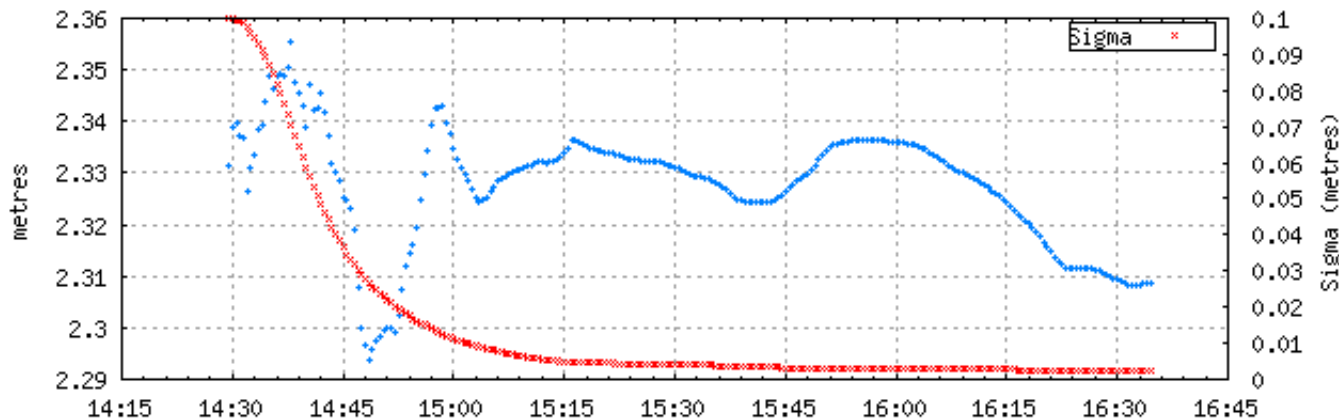
Longitude Differences (2015-07-14 14:29:30.007 GPS)



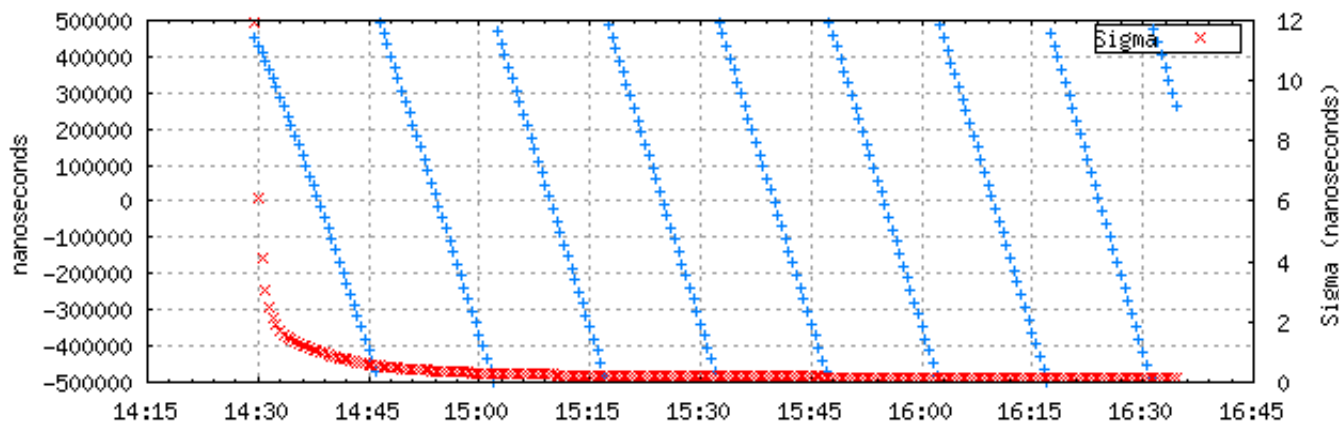
Height Differences (2015-07-14 14:29:30.007 GPS)



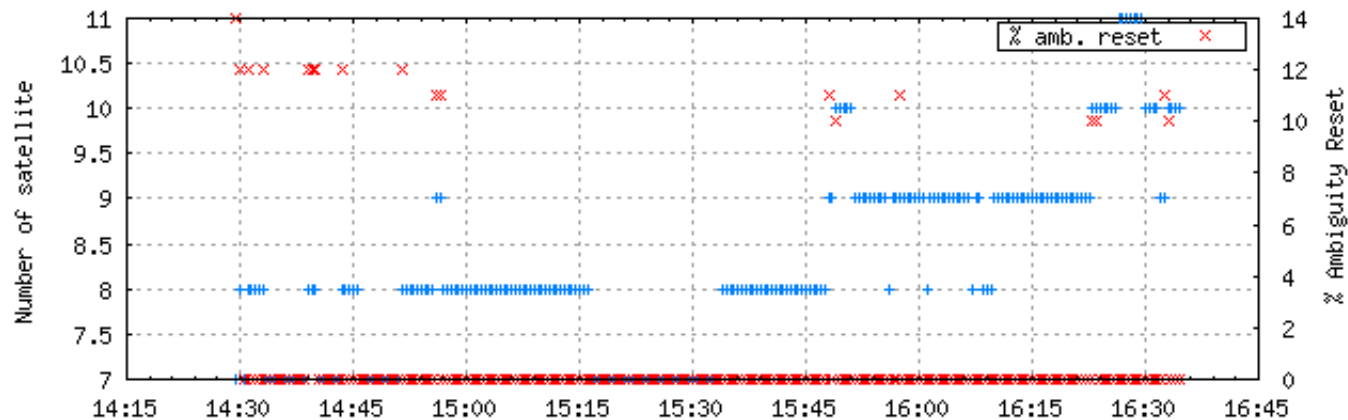
Estimated Tropospheric Zenith Delay (2015-07-14 14:29:30.007 GPS)



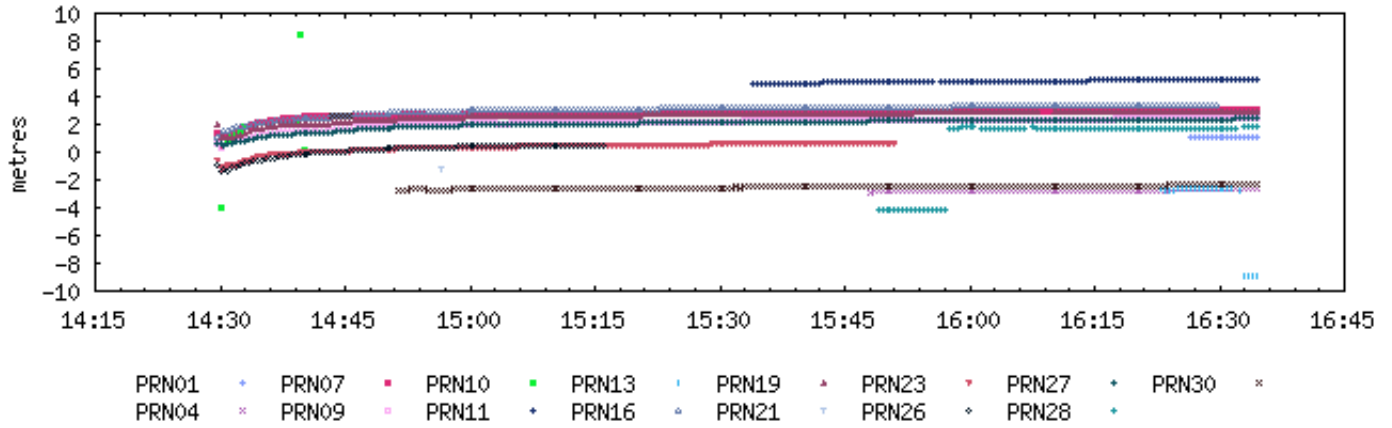
Station Clock Offset (2015-07-14 14:29:30.007 GPS)



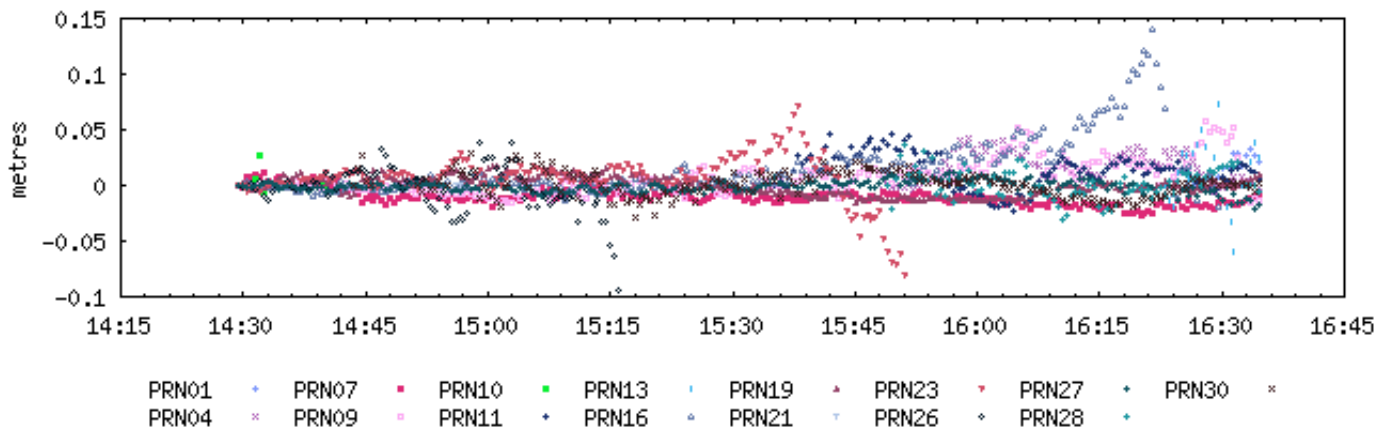
Tracked Satellites and Reset Ambiguities (2015-07-14 14:29:30.007 GPS)



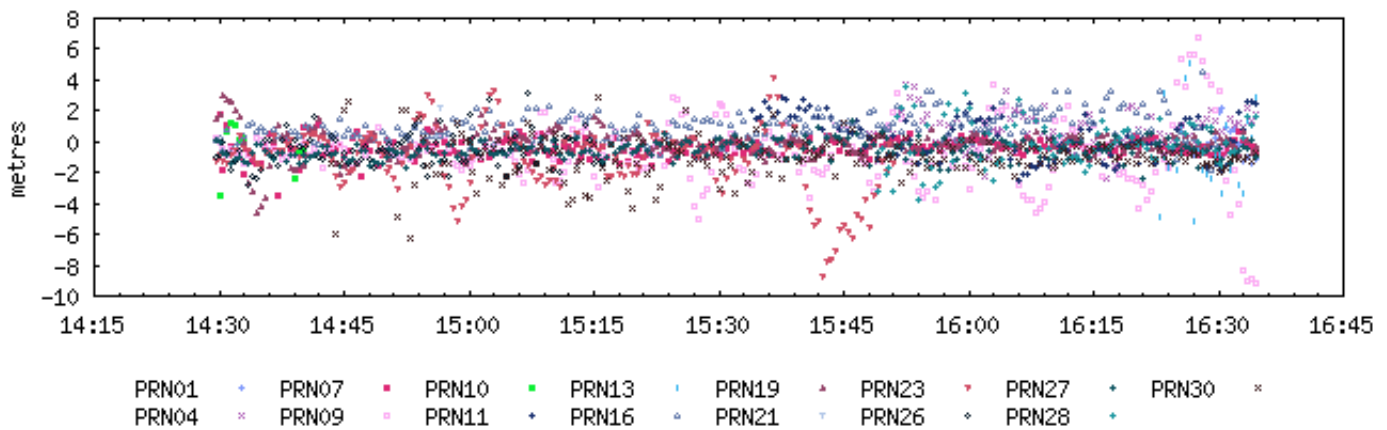
Ambiguities (2015-07-14 14:29:30.000 GPS)



Carrier-Phase Residuals (2015-07-14 14:29:30.000 GPS)



Pseudo-Range Residuals (2015-07-14 14:29:30.000 GPS)



CSRS-PPP NAD83(CSRS) Processing Data Rate -- Warning --

Due to high original data rate, data processed at 30 second interval.
Position estimates should not be affected.

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EMail: information@geod.nrcan.gc.ca**



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CSRS-PPP (V 1.05 34613)



log0714q_OEFM

Data Start	Data End	Duration of Observations
2015-07-14 16:48:00.000	2015-07-14 18:53:00.000	2h 5m 0.00s
Apri / Aposteriori Phase Std		Apri / Aposteriori Code Std
0.015m / 0.006m		2.0m / 0.905m
Observations	Frequency	Mode
Phase and Code	L1 and L2	Static
Elevation Cut-Off	Rejected Epochs	Observation & Estimation Steps
10.000 degrees	0.08 %	1.00 sec / 30.00 sec
Antenna Model	APC to ARP	ARP to Marker
-Unknown-	Ant. not in PPP (0 m)	0.000 m

(APC = antenna phase center; ARP = antenna reference point)

Estimated Position for PPP_GLONASS_log0195q.15o

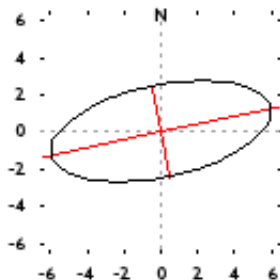
	Latitude (+n)	Longitude (+e)	Ell. Height
NAD83(CSRS) (1997)	48° 26' 09.8950''	-81° 08' 06.6381''	264.190 m
Sigmas(95%)	0.022 m	0.048 m	0.058 m
Apriori	48° 26' 09.903''	-81° 08' 06.665''	262.144 m
Estimated - Apriori	-0.238 m	0.563 m	2.047 m

**Orthometric Height
CGVD28 (HTv2.0)**

301.422 m

(click here for model and accuracy)

95% Error Ellipse (cm)
semi-major: 6.064cm
semi-minor: 2.475cm
semi-major azimuth: 78° 10' 13.85''



UTM (North) Zone 17

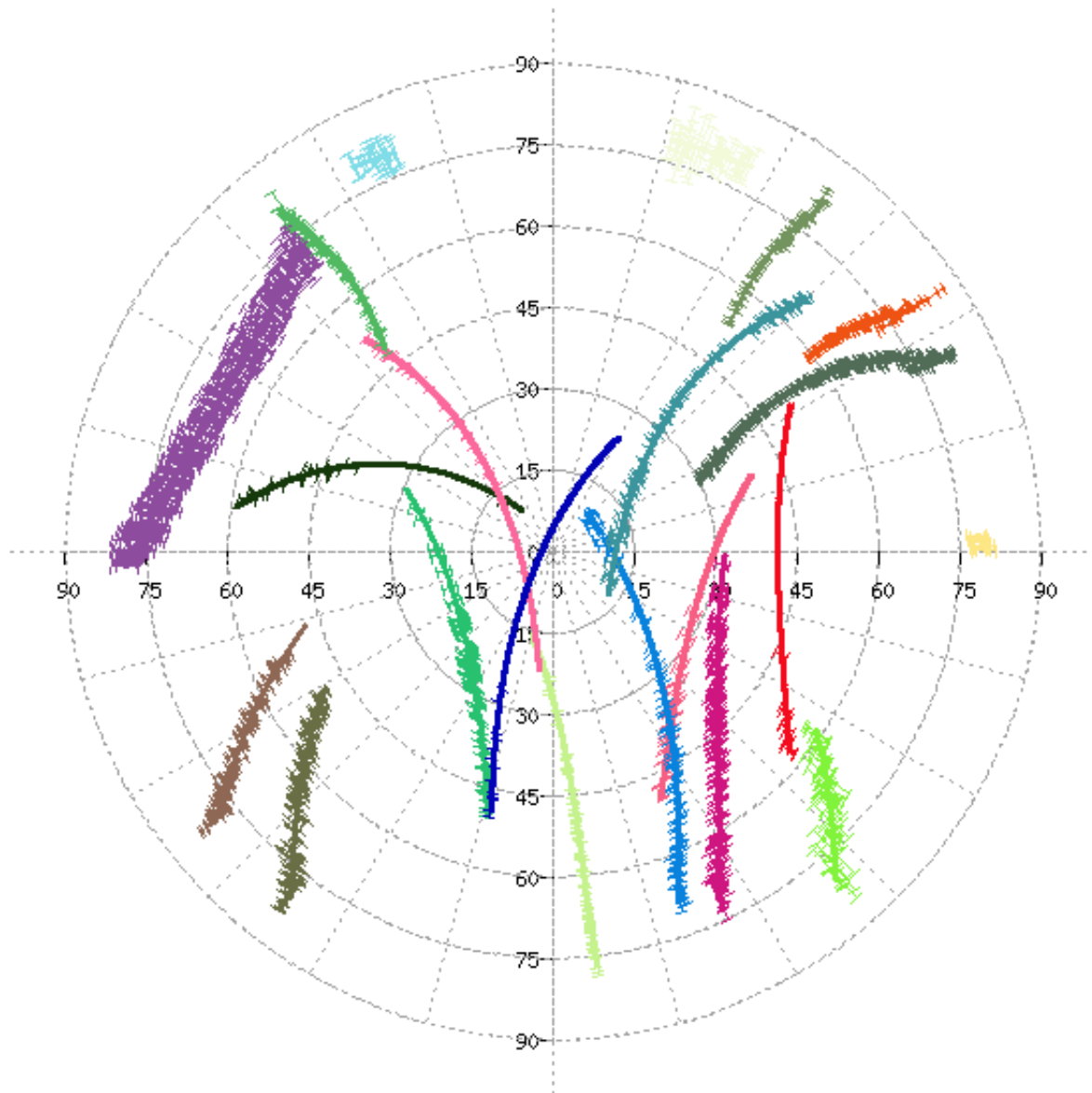
5364779.594m (N) 490001.660m (E)

Scale Factors
0.99960123 (point)
0.99955978 (combined)

(Coordinates from RINEX file used as apriori position)

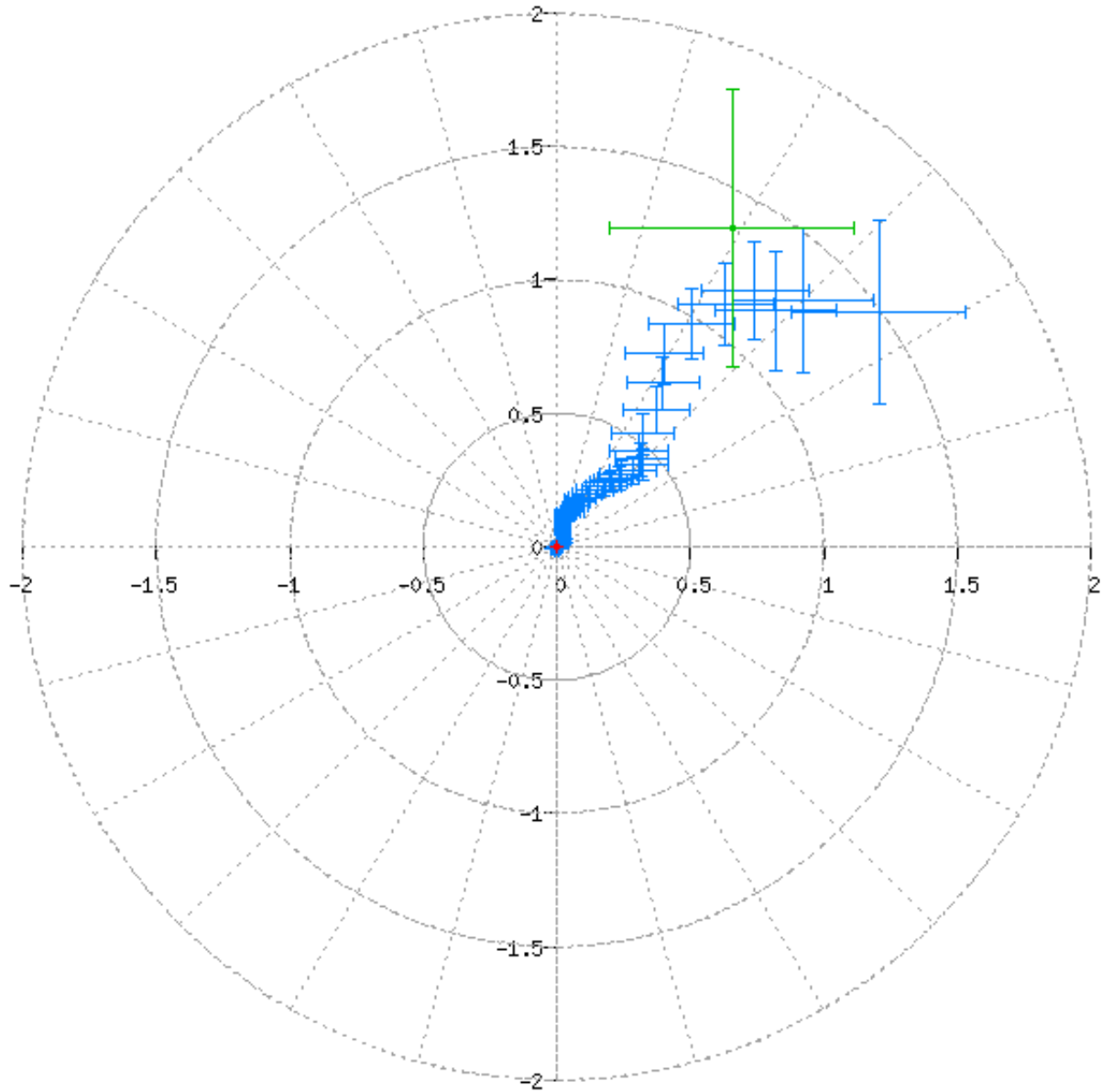
Estimated Parameters & Observations Statistics




Pseudo-Range Residuals Sky Distribution



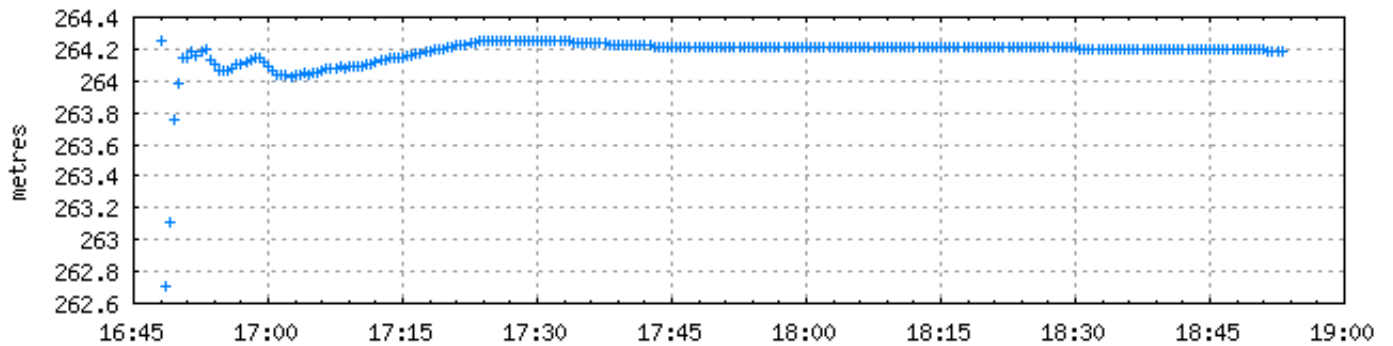
- | | | | | | | | |
|-------|-------|-------|-------|------|------|------|--|
| PRN01 | PRN11 | PRN19 | PRN30 | R_08 | R_15 | R_18 | |
| PRN04 | PRN13 | PRN27 | PRN32 | R_13 | R_16 | R_23 | |
| PRN07 | PRN17 | PRN28 | R_06 | R_14 | R_17 | R_24 | |

Corrections to a priori position (minus final corrections) (metres)

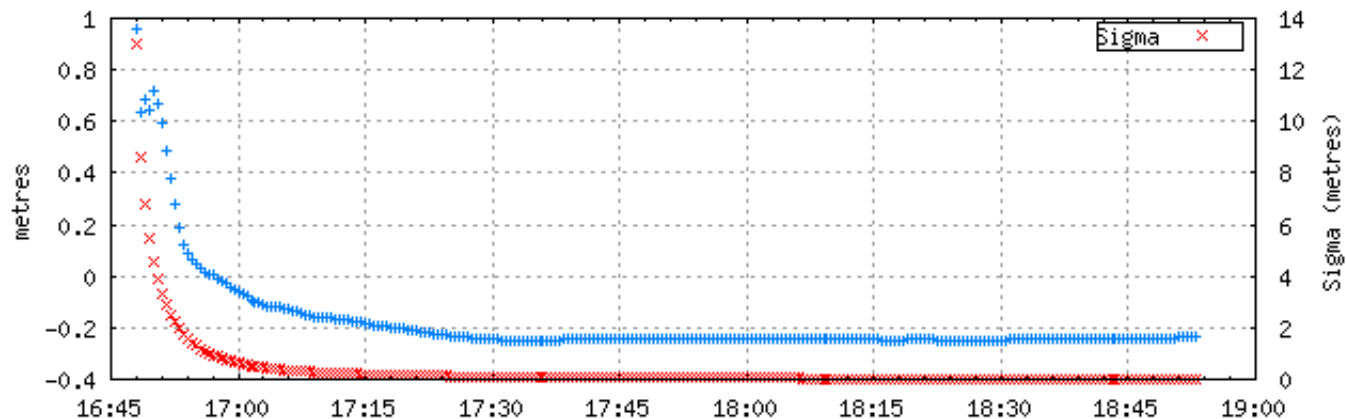


(1 sigma std of position corrections) / 25 
(1 sigma std of initial position correction) / 25 
(1 sigma std of final position correction) / 25 

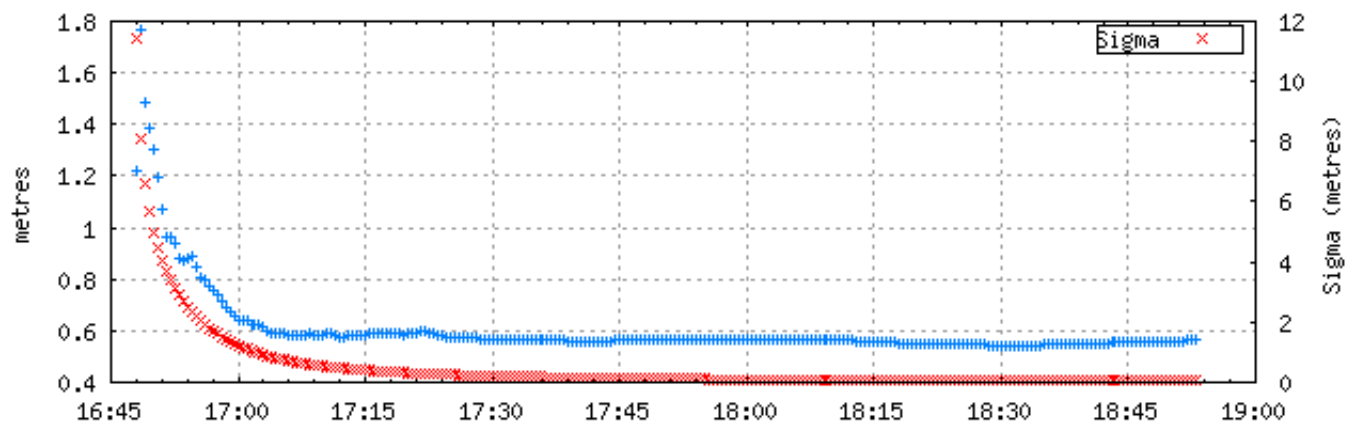
Ellipsoidal Height Profile (2015-07-14 16:48:00.000 GPS)



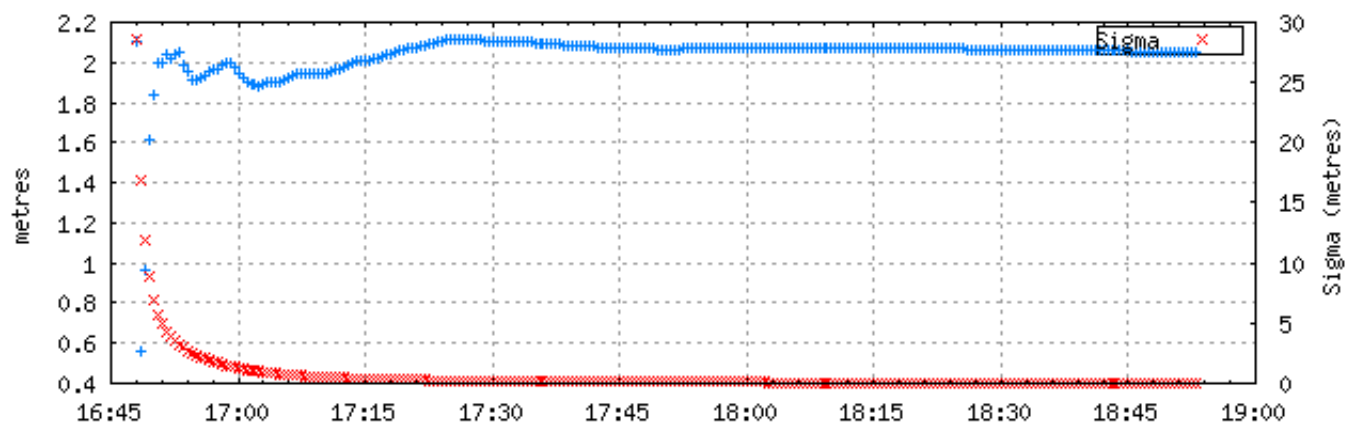
Latitude Differences (2015-07-14 16:48:00.000 GPS)



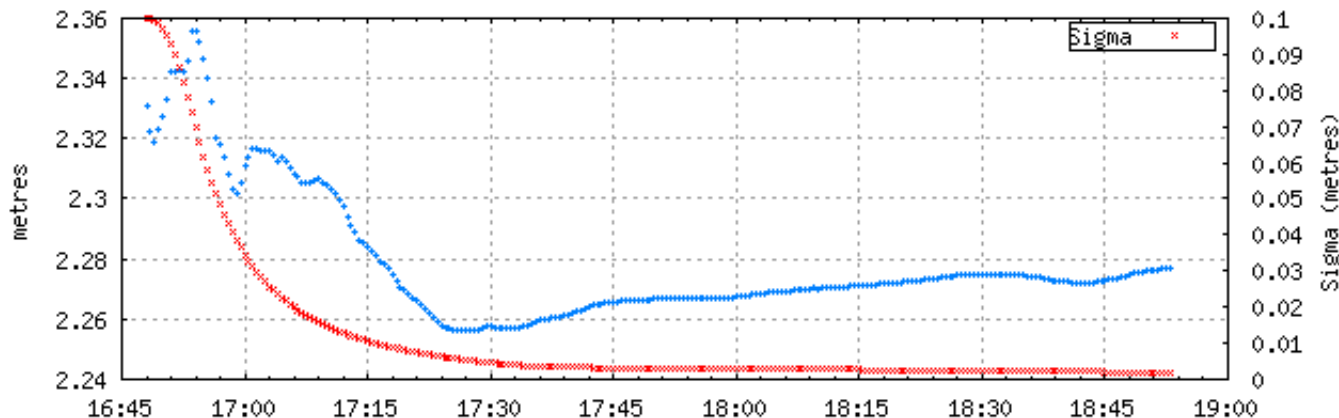
Longitude Differences (2015-07-14 16:48:00.000 GPS)



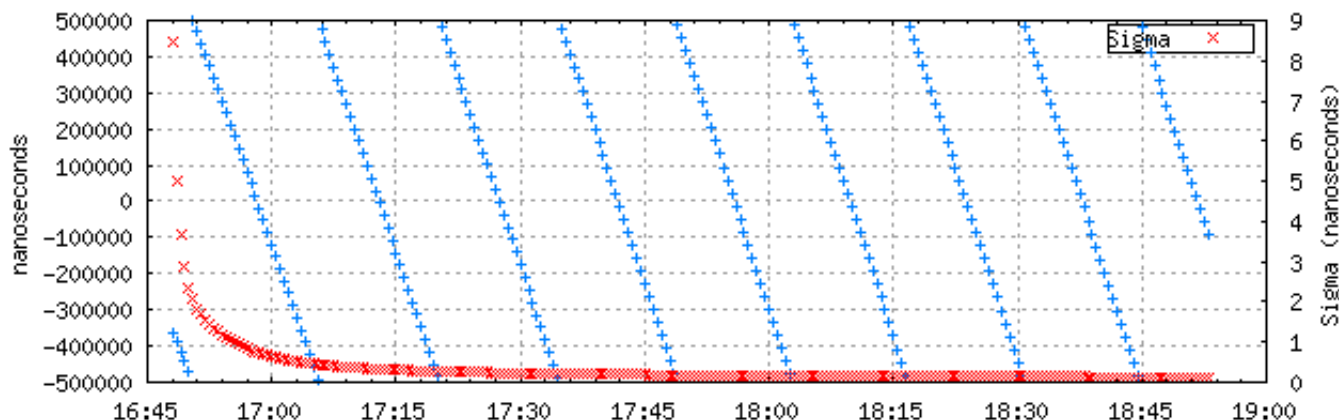
Height Differences (2015-07-14 16:48:00.000 GPS)



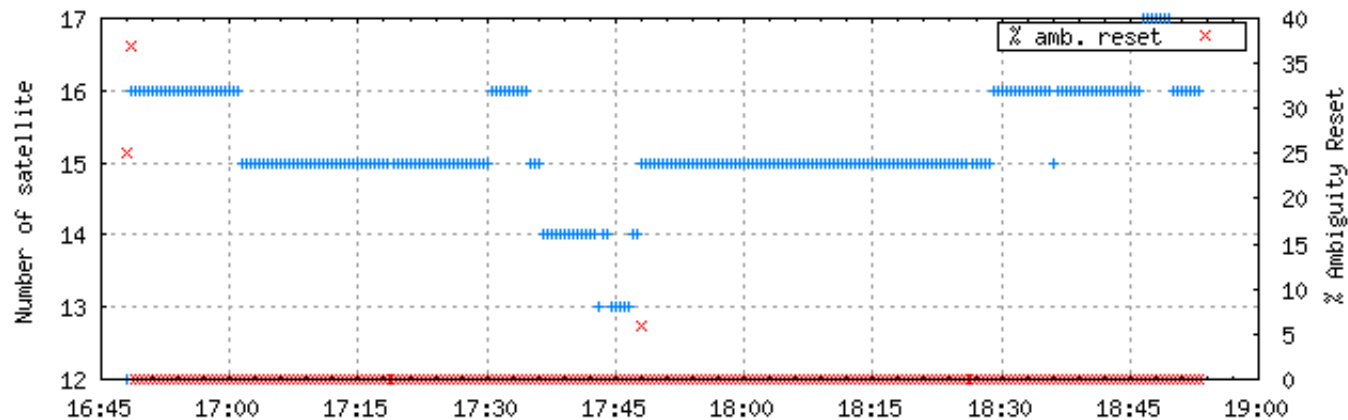
Estimated Tropospheric Zenith Delay (2015-07-14 16:48:00.000 GPS)



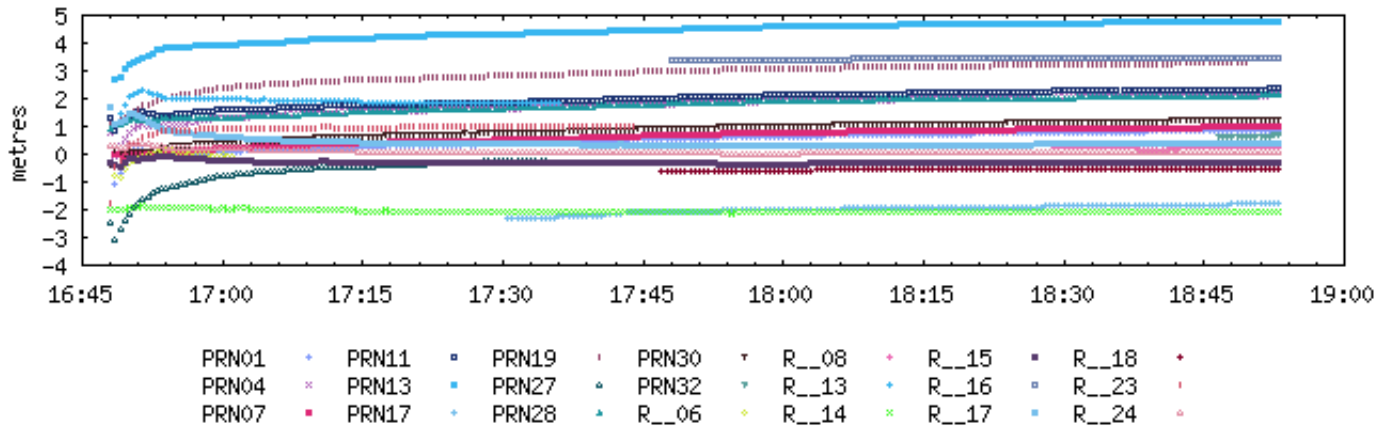
Station Clock Offset (2015-07-14 16:48:00.000 GPS)



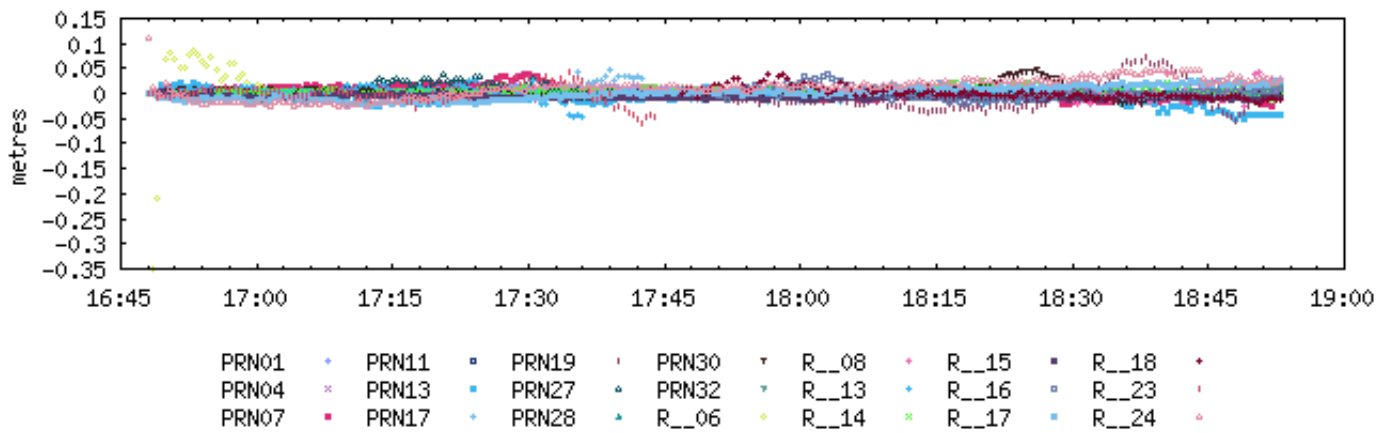
Tracked Satellites and Reset Ambiguities (2015-07-14 16:48:00.000 GPS)



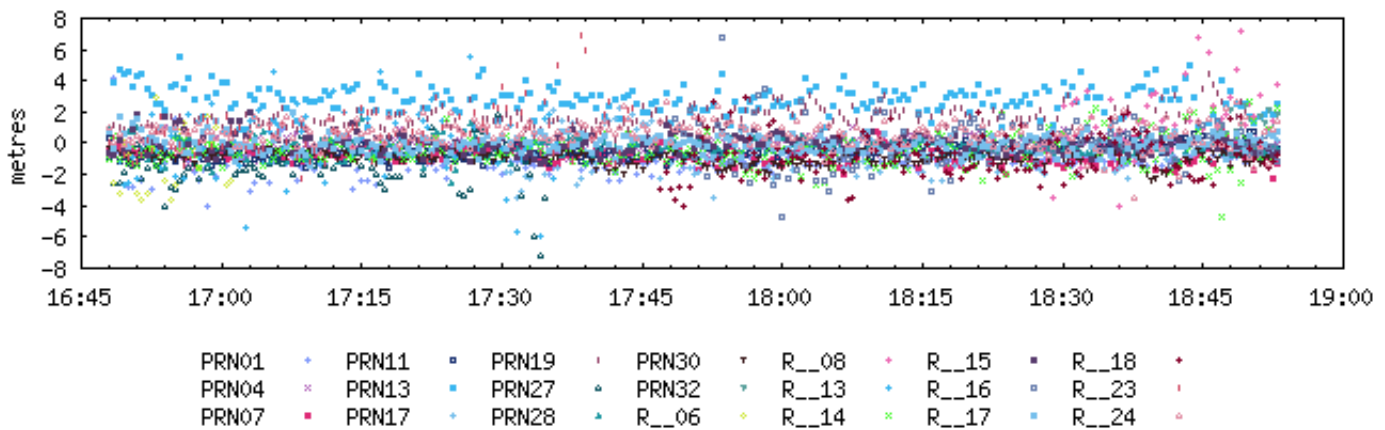
Ambiguities (2015-07-14 16:48:00.000 GPS)



Carrier-Phase Residuals (2015-07-14 16:48:00.000 GPS)



Pseudo-Range Residuals (2015-07-14 16:48:00.000 GPS)



CSRS-PPP NAD83(CSRS) Processing Data Rate -- Warning --

Due to high original data rate, data processed at 30 second interval.
Position estimates should not be affected.

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CSRS-PPP (V 1.05 34613)



log0715m_OEFM

Data Start	Data End	Duration of Observations
2015-07-15 12:27:29.998	2015-07-15 15:40:00.000	3h 12m 30.00s
Apri / Aposteriori Phase Std		Apri / Aposteriori Code Std
0.015m / 0.008m		2.0m / 1.459m
Observations	Frequency	Mode
Phase and Code	L1 and L2	Static
Elevation Cut-Off	Rejected Epochs	Observation & Estimation Steps
10.000 degrees	0.03 %	1.00 sec / 30.00 sec
Antenna Model	APC to ARP	ARP to Marker
-Unknown-	Ant. not in PPP (0 m)	0.000 m

(APC = antenna phase center; ARP = antenna reference point)

Estimated Position for log0196m.15o

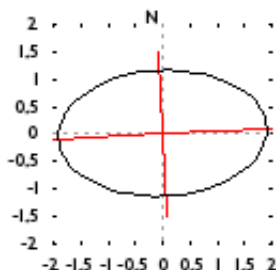
	Latitude (+n)	Longitude (+e)	Ell. Height
NAD83(CSRS) (1997)	48° 25' 23.5319''	-81° 06' 39.5209''	286.233 m
Sigmas(95%)	0.009 m	0.015 m	0.038 m
Apriori	48° 25' 23.554''	-81° 06' 39.550''	284.869 m
Estimated - Apriori	-0.677 m	0.589 m	1.364 m

**Orthometric Height
CGVD28 (HTv2.0)**

323.456 m

(click here for model and accuracy)

95% Error Ellipse (cm)
semi-major: 1.912cm
semi-minor: 1.147cm
semi-major azimuth: 87° 22' 45.40''



UTM (North) Zone 17

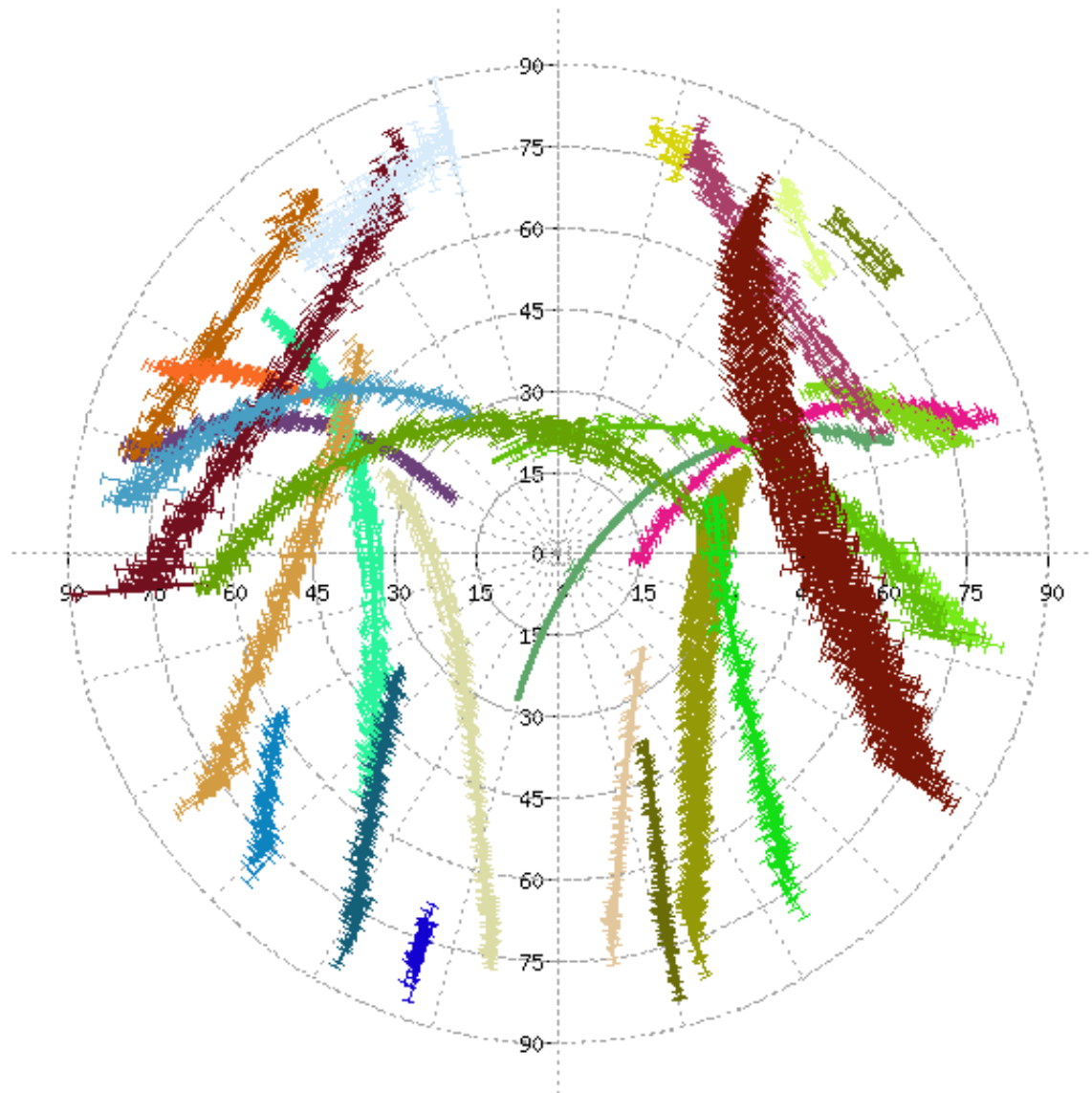
5363345.203m (N) 491789.472m (E)

Scale Factors
0.99960083 (point)
0.99955592 (combined)

(Coordinates from RINEX file used as apriori position)

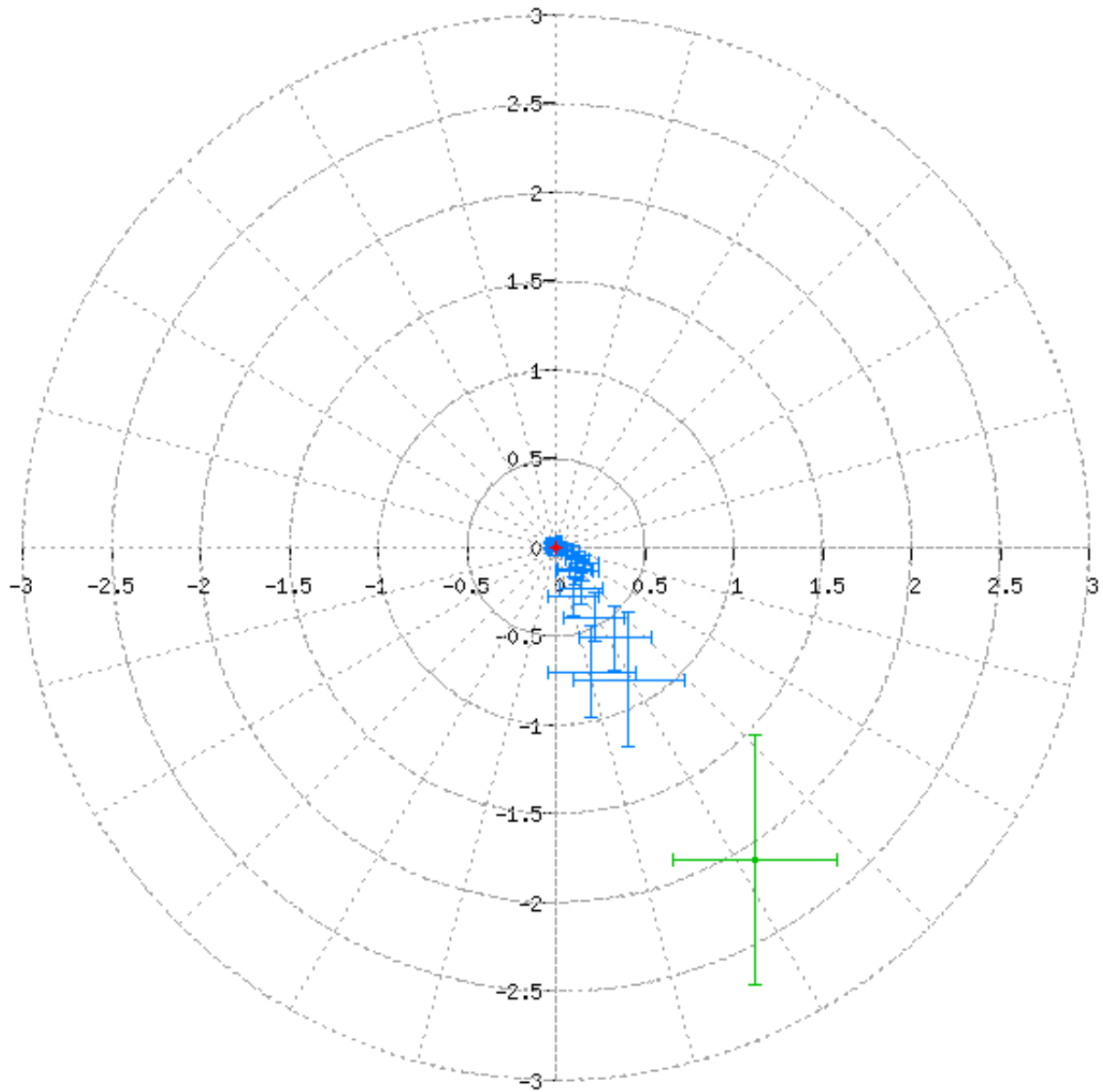
Estimated Parameters & Observations Statistics




Pseudo-Range Residuals Sky Distribution



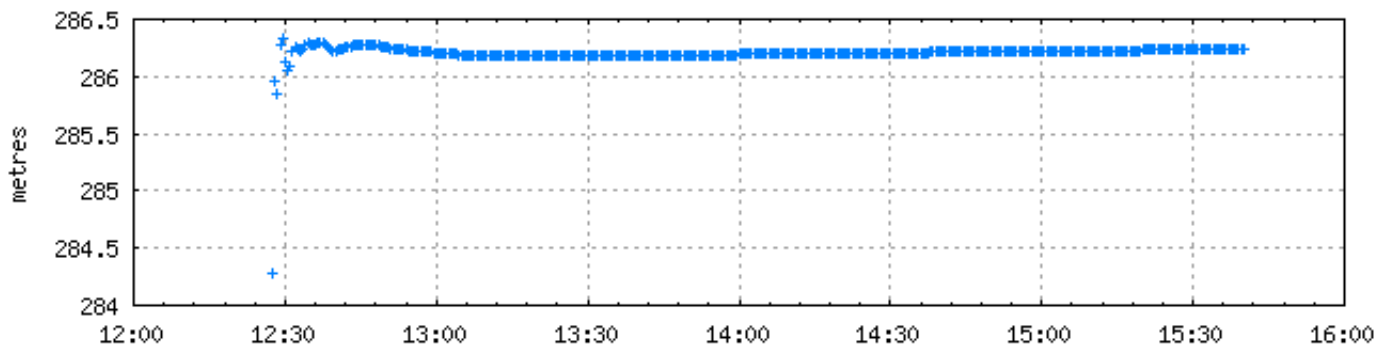
- | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|--|
| PRN03 | PRN16 | PRN26 | PRN31 | R__05 | R__14 | R__22 | |
| PRN07 | PRN19 | PRN27 | PRN32 | R__06 | R__15 | R__23 | |
| PRN09 | PRN21 | PRN29 | R__03 | R__12 | R__17 | R__24 | |
| PRN10 | PRN23 | PRN30 | R__04 | R__13 | R__21 | | |

Corrections to a priori position (minus final corrections) (metres)

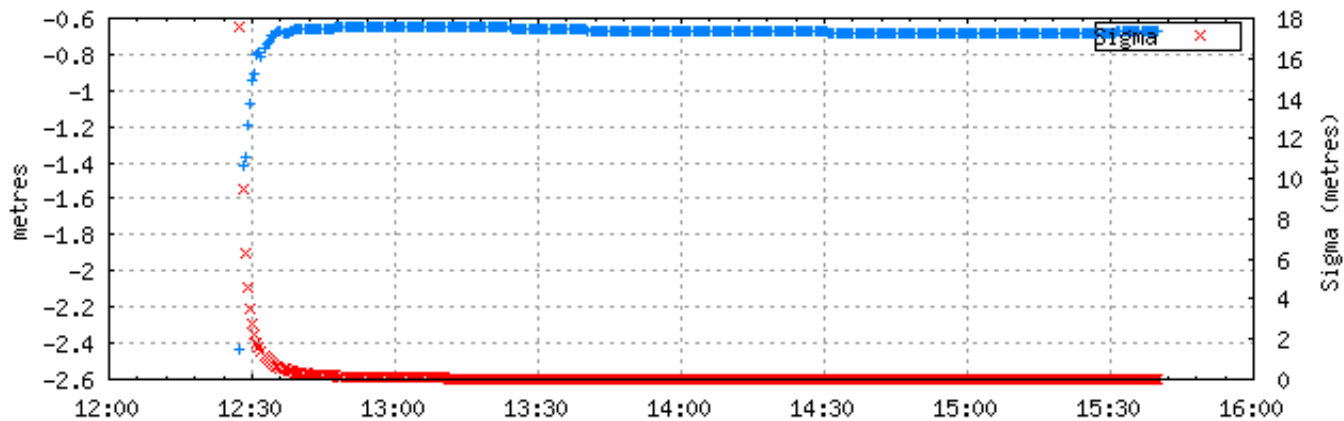


(1 sigma std of position corrections) / 25 
(1 sigma std of initial position correction) / 25 
(1 sigma std of final position correction) / 25 

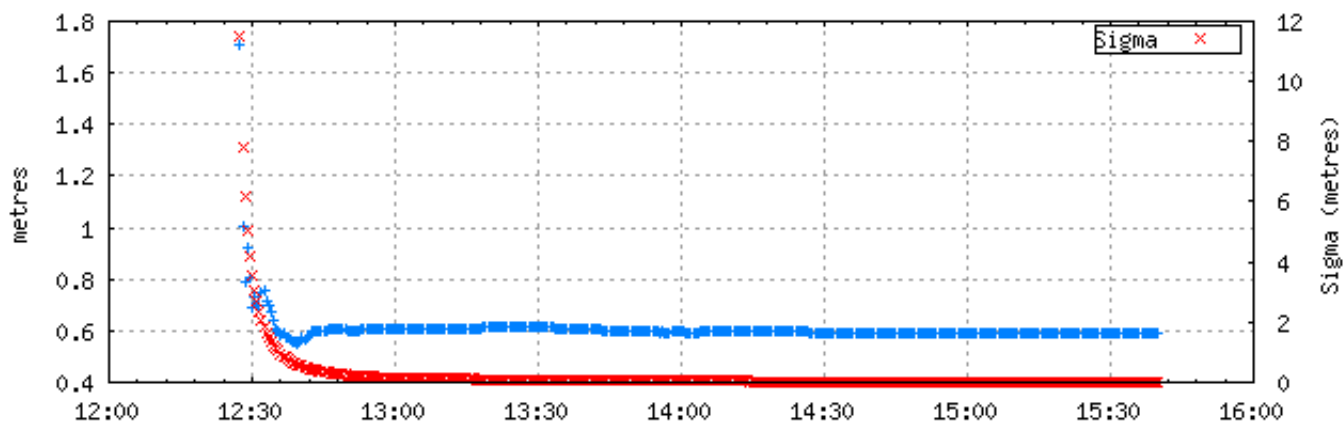
Ellipsoidal Height Profile (2015-07-15 12:27:30.008 GPS)



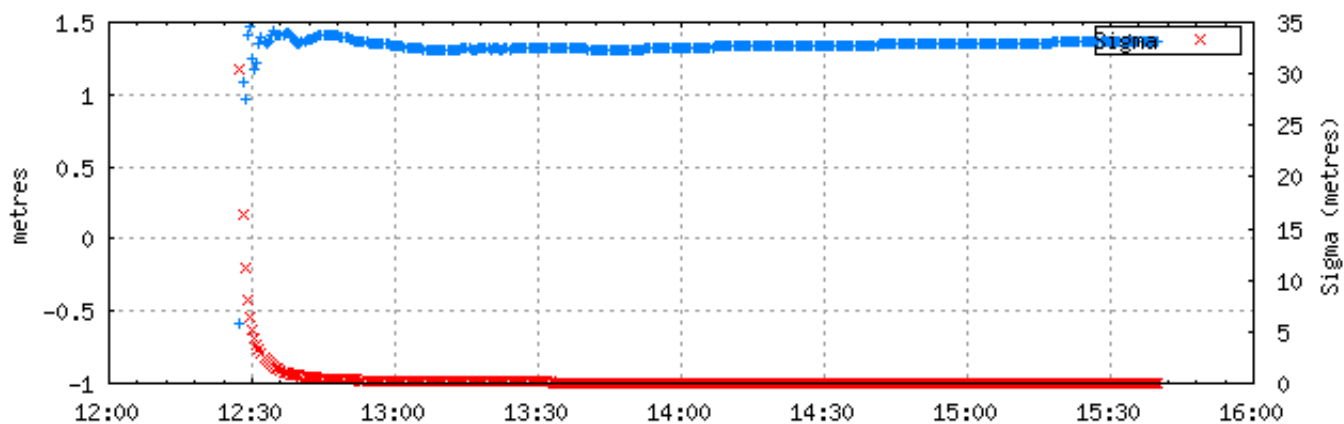
Latitude Differences (2015-07-15 12:27:30.008 GPS)



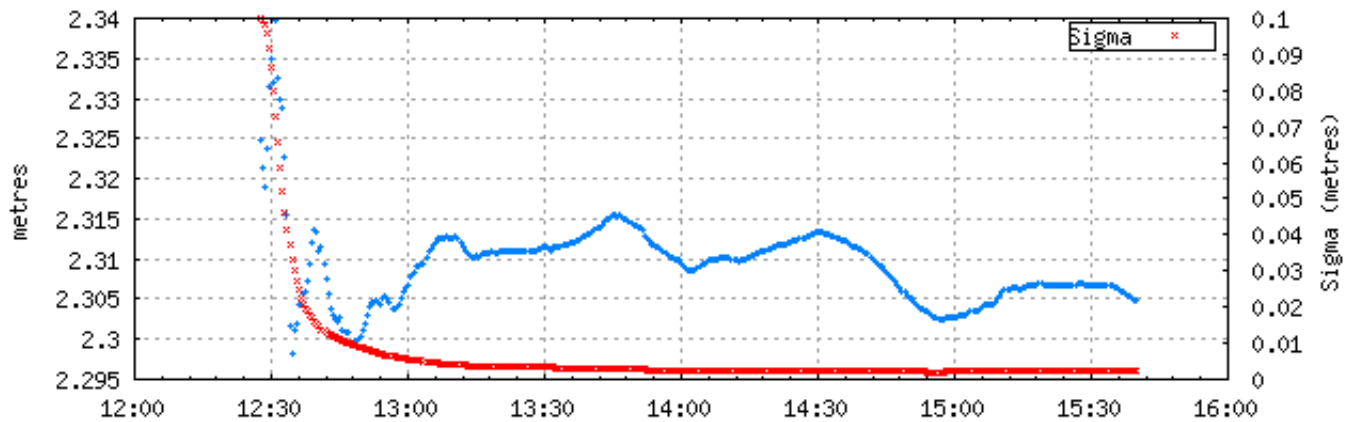
Longitude Differences (2015-07-15 12:27:30.008 GPS)



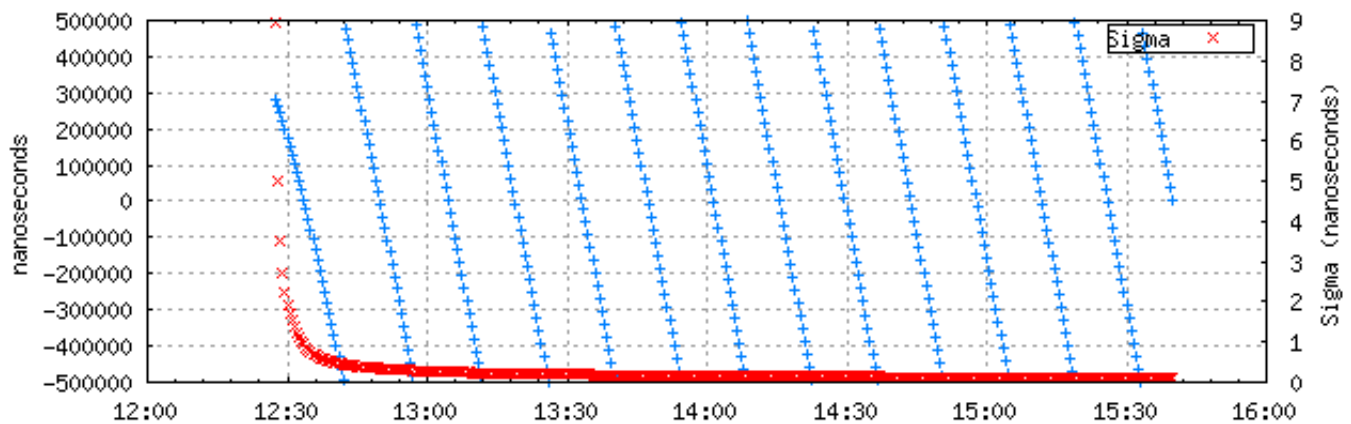
Height Differences (2015-07-15 12:27:30.008 GPS)



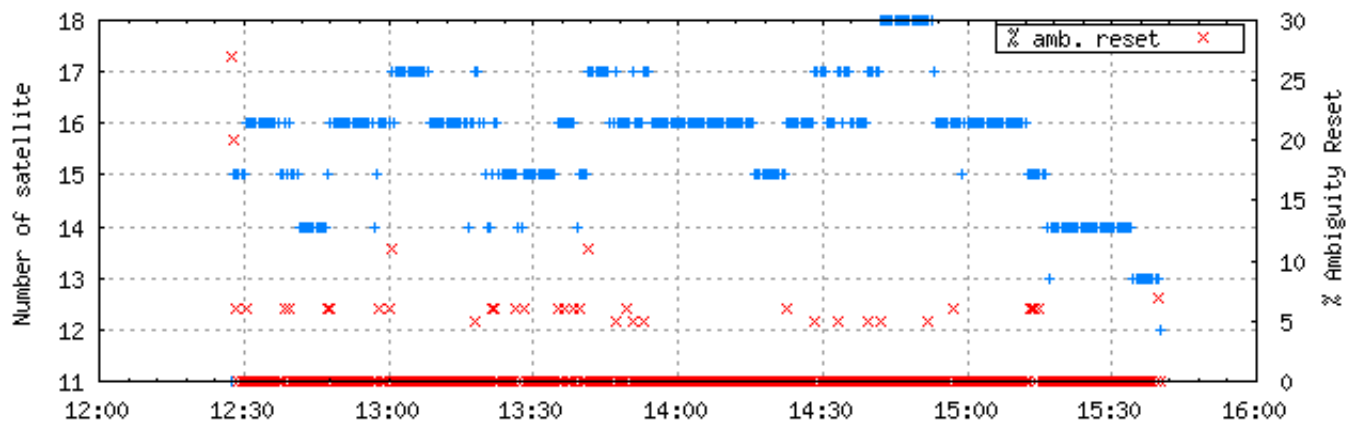
Estimated Tropospheric Zenith Delay (2015-07-15 12:27:30.008 GPS)



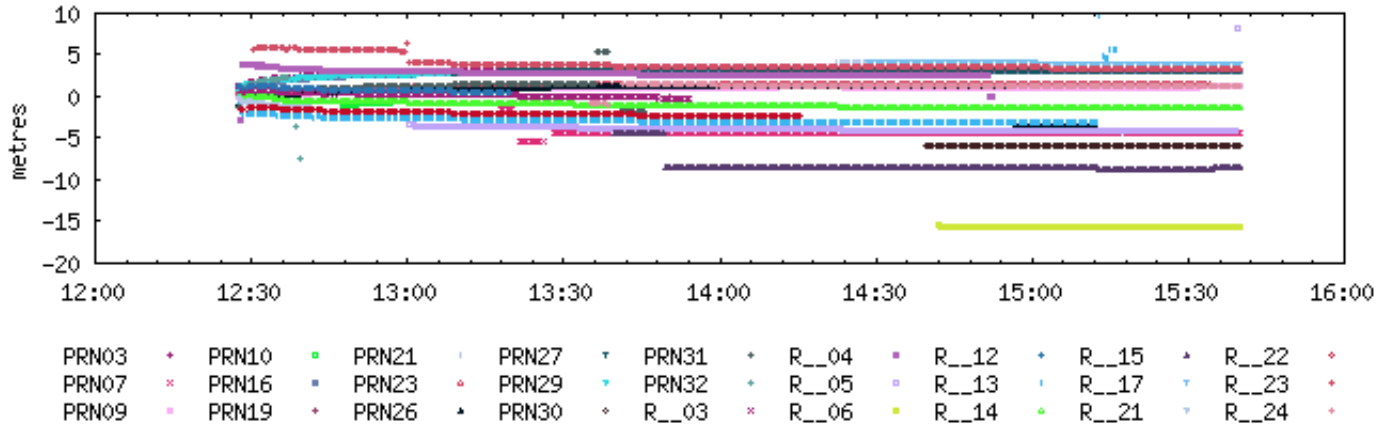
Station Clock Offset (2015-07-15 12:27:30.008 GPS)



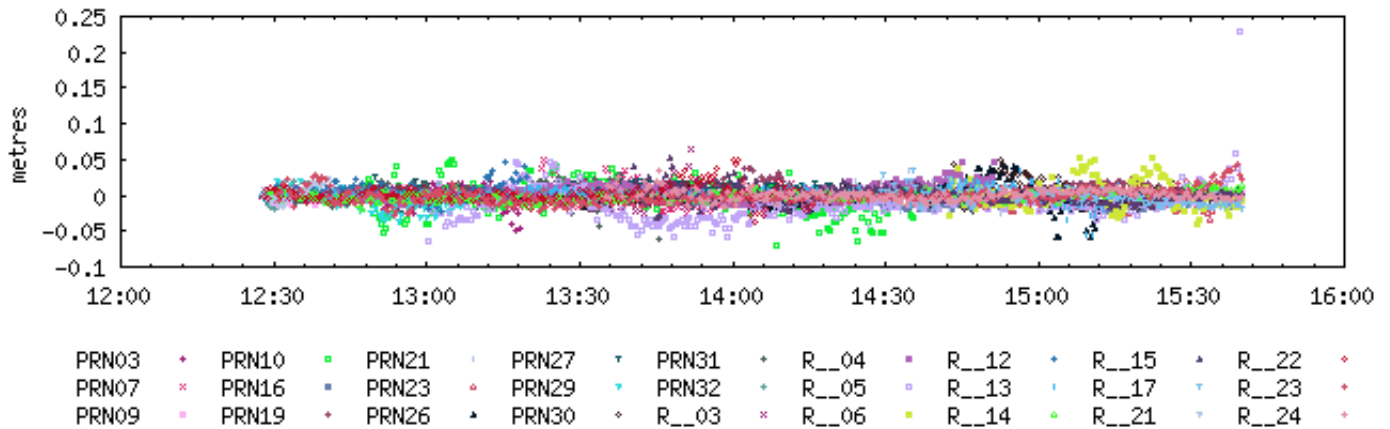
Tracked Satellites and Reset Ambiguities (2015-07-15 12:27:30.008 GPS)



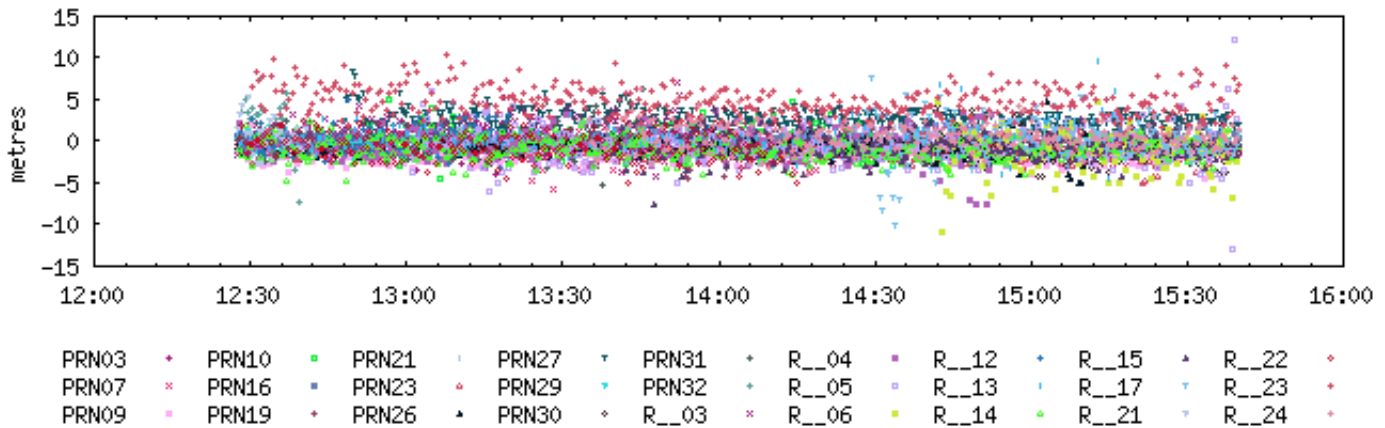
Ambiguities (2015-07-15 12:27:30.000 GPS)



Carrier-Phase Residuals (2015-07-15 12:27:30.000 GPS)



Pseudo-Range Residuals (2015-07-15 12:27:30.000 GPS)



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NAME	Claim_ID	X	Y
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IMG_5965	4206305	493437.1	5367229
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IMG_7144	4207024	495296.3	5364391

NAME	Claim_ID	X	Y
IMG_7145	4207024	495203.4	5364391
IMG_7146	4207024	495110.8	5364393
IMG_7147	4207024	495017.8	5364391
IMG_7148	4207024	494922.3	5364387
IMG_7149	4207024	494827.7	5364389
IMG_7150	4207024	494732.2	5364390
IMG_7151	4207024	494636.5	5364391
IMG_7152	4207024	494543.9	5364391
IMG_7203	4207024	494561.7	5364241
IMG_7204	4207024	494659.9	5364240
IMG_7205	4207024	494755	5364239
IMG_7206	4207024	494848.5	5364240
IMG_7207	4207024	494945.7	5364239
IMG_7208	4207024	495039.4	5364241
IMG_7209	4207024	495138.7	5364238
IMG_7210	4207024	495262.6	5364237
IMG_7211	4207024	495371.3	5364240
IMG_7212	4207024	495463	5364238
IMG_7213	4207024	495560.8	5364238
IMG_7214	4207024	495657	5364236
IMG_7215	4207024	495752.8	5364235
IMG_7216	4207024	495849.9	5364237
IMG_7217	4207024	495947.5	5364237
IMG_7218	4207024	496046.8	5364237
IMG_7222	4207024	496101.3	5364018
IMG_7223	4207024	496007.3	5364016
IMG_7224	4207024	495915.4	5364018
IMG_7225	4207024	495823	5364020
IMG_7226	4207024	495730.4	5364023
IMG_7227	4207024	495635.9	5364025
IMG_7228	4207024	495542.9	5364026
IMG_7229	4207024	495450.1	5364029
IMG_7230	4207024	495355.5	5364026
IMG_7231	4207024	495265.6	5364030
IMG_7232	4207024	495176.7	5364031
IMG_7233	4207024	495087.7	5364034
IMG_7234	4207024	494997.6	5364038
IMG_7235	4207024	494907	5364038
IMG_7236	4207024	494817.4	5364040
IMG_7237	4207024	494724.7	5364042
IMG_7238	4207024	494630.6	5364045
IMG_7239	4207024	494542.7	5364048
IMG_6527	4207025	492176	5364568
IMG_6528	4207025	492270.9	5364566
IMG_6529	4207025	492364	5364564
IMG_6530	4207025	492456.9	5364564
IMG_6531	4207025	492552.4	5364564
IMG_6532	4207025	492649.3	5364562
IMG_6533	4207025	492748.2	5364562
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IMG_6536	4207025	493031.3	5364564
IMG_6537	4207025	493123.9	5364563
IMG_6538	4207025	493217.3	5364564
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IMG_6540	4207025	493405.9	5364566
IMG_6541	4207025	493446.4	5364629
IMG_6542	4207025	493379	5364718
IMG_6543	4207025	493287	5364718
IMG_6544	4207025	493190.8	5364719
IMG_6545	4207025	493097.6	5364721
IMG_6546	4207025	493003.6	5364720
IMG_6547	4207025	492906.4	5364720
IMG_6548	4207025	492793.7	5364718
IMG_6549	4207025	492697	5364722
IMG_6550	4207025	492600	5364724
IMG_6551	4207025	492505.5	5364725
IMG_6552	4207025	492410.1	5364724
IMG_6553	4207025	492308.9	5364727
IMG_6554	4207025	492217	5364722
IMG_6555	4207025	492113.9	5364725
IMG_6602	4207025	492097.2	5364442
IMG_6603	4207025	492187.5	5364443
IMG_6604	4207025	492283.6	5364445
IMG_6605	4207025	492371.9	5364448

NAME	Claim_ID	X	Y
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IMG_6607	4207025	492551.9	5364448
IMG_6608	4207025	492649.6	5364448
IMG_6609	4207025	492737.8	5364448
IMG_6610	4207025	492836.3	5364446
IMG_6611	4207025	492935.2	5364453
IMG_6612	4207025	493028.7	5364449
IMG_6613	4207025	493140	5364448
IMG_6614	4207025	493232.3	5364452
IMG_6615	4207025	493322.4	5364454
IMG_6616	4207025	493418.1	5364455
IMG_6617	4207025	493505.7	5364362
IMG_6618	4207025	493515	5364259
IMG_6619	4207025	493431.2	5364237
IMG_6620	4207025	493339.5	5364239
IMG_6621	4207025	493248.5	5364245
IMG_6622	4207025	493148.8	5364252
IMG_6623	4207025	493051.6	5364263
IMG_6624	4207025	492957.7	5364274
IMG_6625	4207025	492923	5364164
IMG_6626	4207025	492926.8	5364061
IMG_6627	4207025	492983.9	5364059
IMG_6628	4207025	493069	5364055
IMG_6629	4207025	493161.5	5364055
IMG_6630	4207025	493255.1	5364060
IMG_6631	4207025	493352.6	5364065
IMG_6632	4207025	493449.2	5364066
IMG_6633	4207025	493464.6	5364136
IMG_6634	4207025	493369	5364151
IMG_6635	4207025	493271	5364177
IMG_6636	4207025	493177.6	5364195
IMG_6637	4207025	493081.6	5364212
IMG_6638	4207025	492984.9	5364235
IMG_6720	4207025	492247.6	5364470
IMG_6798	4207025	492384.5	5364620
IMG_6799	4207025	492341.6	5364536
IMG_6800	4207025	492296.4	5364453
IMG_6879	4207025	492479.6	5364657
IMG_6880	4207025	492434.1	5364574
IMG_6881	4207025	492387.2	5364487
IMG_6960	4207025	492557.8	5364503
IMG_6961	4207025	492500	5364428
IMG_7089	4207025	494419.2	5364700
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IMG_7094	4207025	493960.6	5364702
IMG_7095	4207025	493866.4	5364701
IMG_7096	4207025	493774	5364705
IMG_7097	4207025	493676	5364700
IMG_7098	4207025	493581.3	5364702
IMG_7099	4207025	493483.8	5364702
IMG_7100	4207025	493388.7	5364705
IMG_7101	4207025	493299.8	5364698
IMG_7102	4207025	493210.3	5364701
IMG_7103	4207025	493229.7	5364545
IMG_7104	4207025	493315.2	5364556
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IMG_7106	4207025	493510.9	5364546
IMG_7107	4207025	493607.9	5364546
IMG_7108	4207025	493705	5364546
IMG_7109	4207025	493799.8	5364548
IMG_7110	4207025	493900	5364542
IMG_7111	4207025	493994.9	5364548
IMG_7112	4207025	494090.5	5364549
IMG_7113	4207025	494187.4	5364548
IMG_7114	4207025	494280.8	5364548
IMG_7115	4207025	494376.8	5364544
IMG_7116	4207025	494470.3	5364547
IMG_7153	4207025	494454.1	5364391
IMG_7154	4207025	494364.7	5364394
IMG_7155	4207025	494272.5	5364391
IMG_7156	4207025	494178.8	5364392
IMG_7157	4207025	494090.6	5364389

NAME	Claim_ID	X	Y
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IMG_7161	4207025	493724.5	5364392
IMG_7162	4207025	493634.2	5364391
IMG_7163	4207025	493542	5364393
IMG_7164	4207025	493451.8	5364392
IMG_7165	4207025	493358.9	5364391
IMG_7166	4207025	493266.8	5364392
IMG_7167	4207025	493169.7	5364392
IMG_7168	4207025	493124.5	5364365
IMG_7169	4207025	493046.8	5364309
IMG_7170	4207025	492972.3	5364252
IMG_7189	4207025	493225.2	5364240
IMG_7190	4207025	493316	5364241
IMG_7191	4207025	493409	5364242
IMG_7192	4207025	493506	5364240
IMG_7193	4207025	493601.1	5364243
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IMG_7195	4207025	493791.6	5364242
IMG_7196	4207025	493883.5	5364242
IMG_7197	4207025	493981.7	5364239
IMG_7198	4207025	494078.5	5364241
IMG_7199	4207025	494175.3	5364240
IMG_7200	4207025	494276.5	5364240
IMG_7201	4207025	494375.3	5364241
IMG_7202	4207025	494471.7	5364243
IMG_7240	4207025	494446.8	5364046
IMG_7241	4207025	494356.1	5364047
IMG_7242	4207025	494261	5364051
IMG_7243	4207025	494167.7	5364054
IMG_7244	4207025	494076.2	5364055
IMG_7245	4207025	493984.1	5364054
IMG_7246	4207025	493896	5364058
IMG_7247	4207025	493804.9	5364059
IMG_7248	4207025	493709.9	5364062
IMG_7249	4207025	493619.4	5364066
IMG_7250	4207025	493525.1	5364066
IMG_7251	4207025	493431.1	5364066
IMG_7252	4207025	493341.2	5364069
IMG_7253	4207025	493250.3	5364071
IMG_7254	4207025	493162.2	5364070
IMG_7255	4207025	493068.6	5364074
IMG_7256	4207025	492996.1	5364057
IMG_7257	4207025	492915.2	5364009
IMG_6218	4207026	492134.7	5365643
IMG_6219	4207026	492223.2	5365643
IMG_6220	4207026	492314.8	5365642
IMG_6221	4207026	492406.3	5365645
IMG_6222	4207026	492499.4	5365643
IMG_6223	4207026	492595.9	5365645
IMG_6224	4207026	492688	5365645
IMG_6225	4207026	492782.2	5365643
IMG_6226	4207026	492878.8	5365643
IMG_6227	4207026	492975.2	5365644
IMG_6228	4207026	493068.4	5365645
IMG_6229	4207026	493161.1	5365647
IMG_6230	4207026	493253	5365648
IMG_6231	4207026	493342.1	5365645
IMG_6232	4207026	493443.7	5365701
IMG_6233	4207026	493379.7	5365792
IMG_6234	4207026	493286	5365798
IMG_6235	4207026	493190.6	5365797
IMG_6236	4207026	493094.2	5365798
IMG_6237	4207026	492996	5365798
IMG_6238	4207026	492902.5	5365798
IMG_6239	4207026	492807.5	5365797
IMG_6240	4207026	492711.4	5365798
IMG_6241	4207026	492613.5	5365796
IMG_6242	4207026	492518.6	5365798
IMG_6243	4207026	492419	5365799
IMG_6244	4207026	492326.8	5365798
IMG_6245	4207026	492230.9	5365797
IMG_6246	4207026	492137.3	5365801
IMG_6268	4207026	492160	5365954

NAME	Claim_ID	X	Y
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IMG_6270	4207026	492352.8	5365959
IMG_6271	4207026	492445.3	5365954
IMG_6272	4207026	492536.7	5365954
IMG_6273	4207026	492631.3	5365953
IMG_6274	4207026	492723.1	5365952
IMG_6275	4207026	492819.2	5365952
IMG_6276	4207026	492916.8	5365953
IMG_6277	4207026	493008.2	5365952
IMG_6278	4207026	493098.2	5365953
IMG_6279	4207026	493194.2	5365952
IMG_6280	4207026	493286.6	5365952
IMG_6281	4207026	493380.1	5365951
IMG_6282	4207026	493449.4	5366005
IMG_6283	4207026	493379.4	5366103
IMG_6284	4207026	493285.1	5366103
IMG_6285	4207026	493190.4	5366102
IMG_6286	4207026	493095.8	5366107
IMG_6287	4207026	492999	5366108
IMG_6288	4207026	492904.5	5366106
IMG_6289	4207026	492812.5	5366105
IMG_6290	4207026	492715.6	5366108
IMG_6291	4207026	492616.3	5366107
IMG_6292	4207026	492521.6	5366108
IMG_6293	4207026	492426.2	5366110
IMG_6294	4207026	492330	5366106
IMG_6295	4207026	492231.3	5366105
IMG_6296	4207026	492134.8	5366111
IMG_6318	4207026	492154.6	5366262
IMG_6319	4207026	492245.8	5366264
IMG_6320	4207026	492341.9	5366263
IMG_6321	4207026	492437.9	5366262
IMG_6322	4207026	492530.3	5366261
IMG_6323	4207026	492627.2	5366259
IMG_6324	4207026	492721.3	5366261
IMG_6325	4207026	492815.7	5366266
IMG_6326	4207026	492909.6	5366261
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IMG_6332	4207026	493448.7	5366318
IMG_6333	4207026	493380.5	5366414
IMG_6334	4207026	493285.7	5366415
IMG_6335	4207026	493190.9	5366413
IMG_6336	4207026	493100.5	5366413
IMG_6337	4207026	493008.7	5366412
IMG_6338	4207026	492913.9	5366413
IMG_6339	4207026	492820.9	5366413
IMG_6340	4207026	492725.2	5366416
IMG_6341	4207026	492634.2	5366414
IMG_6342	4207026	492542.2	5366416
IMG_6343	4207026	492452.9	5366415
IMG_6344	4207026	492357.5	5366414
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IMG_6346	4207026	492171.3	5366414
IMG_6357	4207026	493372.7	5365561
IMG_6358	4207026	493279	5365573
IMG_6359	4207026	493182.1	5365574
IMG_6360	4207026	493083.4	5365570
IMG_6361	4207026	492984.3	5365573
IMG_6362	4207026	492888	5365573
IMG_6363	4207026	492786.5	5365570
IMG_6364	4207026	492691	5365572
IMG_6365	4207026	492596	5365574
IMG_6366	4207026	492495	5365572
IMG_6367	4207026	492395.7	5365574
IMG_6368	4207026	492295.7	5365571
IMG_6369	4207026	492195.3	5365577
IMG_6370	4207026	492094.7	5365574
IMG_6390	4207026	492100.1	5365422
IMG_6391	4207026	492197.1	5365419
IMG_6392	4207026	492294.5	5365417
IMG_6393	4207026	492395.3	5365418

NAME	Claim_ID	X	Y
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IMG_6396	4207026	492678.1	5365415
IMG_6397	4207026	492777.9	5365418
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IMG_6399	4207026	492966	5365427
IMG_6400	4207026	493056.7	5365415
IMG_6401	4207026	493150.6	5365413
IMG_6402	4207026	493246.7	5365415
IMG_6403	4207026	493341.3	5365417
IMG_6404	4207026	493435.3	5365416
IMG_6405	4207026	493457.6	5365303
IMG_6406	4207026	493343.5	5365265
IMG_6407	4207026	493254.6	5365259
IMG_6408	4207026	493157.6	5365260
IMG_6409	4207026	493060.3	5365266
IMG_6410	4207026	492965.3	5365263
IMG_6411	4207026	492881.2	5365263
IMG_6412	4207026	492778.2	5365255
IMG_6413	4207026	492681.8	5365261
IMG_6414	4207026	492580.1	5365261
IMG_6415	4207026	492479.8	5365262
IMG_6416	4207026	492381.2	5365264
IMG_6417	4207026	492285.1	5365263
IMG_6418	4207026	492187.3	5365267
IMG_6419	4207026	492099	5365267
IMG_6453	4207026	492133.2	5365028
IMG_6454	4207026	492226.6	5365026
IMG_6455	4207026	492319.4	5365026
IMG_6456	4207026	492415.3	5365026
IMG_6457	4207026	492509.2	5365026
IMG_6458	4207026	492604.5	5365026
IMG_6459	4207026	492698.3	5365028
IMG_6460	4207026	492793.5	5365028
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IMG_6465	4207026	493253.1	5365029
IMG_6466	4207026	493343.7	5365026
IMG_6467	4207026	493443	5364925
IMG_6468	4207026	493349.4	5364874
IMG_6469	4207026	493256.4	5364874
IMG_6470	4207026	493157.9	5364868
IMG_6471	4207026	493058.5	5364871
IMG_6472	4207026	492959.9	5364876
IMG_6473	4207026	492863.2	5364870
IMG_6474	4207026	492762.2	5364871
IMG_6475	4207026	492666.5	5364872
IMG_6476	4207026	492572.3	5364874
IMG_6477	4207026	492477.1	5364870
IMG_6478	4207026	492384.2	5364872
IMG_6479	4207026	492286.9	5364873
IMG_6480	4207026	492192.8	5364875
IMG_6481	4207026	492090.9	5364873
IMG_6655	4207026	493240.9	5366393
IMG_6656	4207026	493325.1	5366402
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IMG_6717	4207026	493385.6	5366245
IMG_6718	4207026	493295.7	5366244
IMG_6719	4207026	493204	5366243
IMG_6734	4207026	493238.5	5366083
IMG_6735	4207026	493320	5366096
IMG_6736	4207026	493417.4	5366090
IMG_6737	4207026	493515.5	5366088
IMG_6738	4207026	493614.6	5366089
IMG_6792	4207026	493692.8	5365935
IMG_6793	4207026	493598.4	5365932
IMG_6794	4207026	493511.4	5365933
IMG_6795	4207026	493419.4	5365933

NAME	Claim_ID	X	Y
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IMG_6814	4207026	493224	5365779
IMG_6815	4207026	493308.3	5365781
IMG_6816	4207026	493403.5	5365781
IMG_6817	4207026	493498.8	5365780
IMG_6818	4207026	493594.5	5365780
IMG_6819	4207026	493689.4	5365781
IMG_6873	4207026	493629.1	5365627
IMG_6874	4207026	493537.3	5365623
IMG_6875	4207026	493443.9	5365627
IMG_6876	4207026	493350.8	5365629
IMG_6877	4207026	493258.7	5365625
IMG_6878	4207026	493165.4	5365629
IMG_6896	4207026	493228.9	5365470
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IMG_6865	4207027	494365	5365623
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IMG_6841	4207028	495815.5	5365778
IMG_6842	4207028	495915.1	5365779
IMG_6843	4207028	496016.8	5365776
IMG_6844	4207028	496117.1	5365777
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IMG_6849	4207028	495840.8	5365624
IMG_6850	4207028	495747.4	5365623

NAME	Claim_ID	X	Y
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IMG_6861	4207028	494731.4	5365625
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IMG_7013	4207028	495547.7	5365006
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IMG_7015	4207028	495359.2	5365008
IMG_7016	4207028	495266.7	5365006
IMG_7017	4207028	495171.7	5365010

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IMG_7055	4207028	494772.3	5364854
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IMG_6511	4215562	490647.3	5364570
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IMG_6513	4215562	490840.5	5364565
IMG_6514	4215562	490936.1	5364566

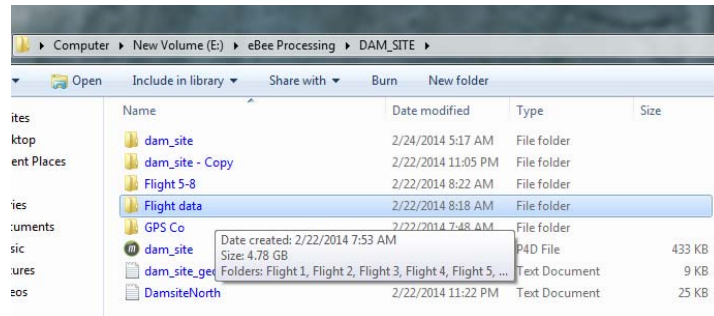
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IMG_6263	4219540	491679.6	5365953
IMG_6264	4219540	491774.7	5365951
IMG_6265	4219540	491868.7	5365953
IMG_6266	4219540	491964.5	5365954
IMG_6267	4219540	492061.7	5365958
IMG_6297	4219540	492039.6	5366107
IMG_6298	4219540	491946.2	5366108
IMG_6299	4219540	491853.2	5366110
IMG_6300	4219540	491761.2	5366107
IMG_6301	4219540	491665	5366108
IMG_6302	4219540	491573.2	5366110
IMG_6303	4219540	491477.3	5366108
IMG_6304	4219540	491387.4	5366109
IMG_6309	4219540	491306.4	5366258
IMG_6310	4219540	491400	5366261
IMG_6311	4219540	491494.3	5366263
IMG_6312	4219540	491589.8	5366263
IMG_6313	4219540	491682.5	5366261
IMG_6314	4219540	491775	5366261
IMG_6315	4219540	491868.1	5366263
IMG_6316	4219540	491964.7	5366262
IMG_6317	4219540	492060.1	5366262
IMG_6347	4219540	492070.8	5366414
IMG_6348	4219540	491974	5366417
IMG_6349	4219540	491876.3	5366417
IMG_6350	4219540	491782.7	5366417
IMG_6351	4219540	491689.7	5366419
IMG_6352	4219540	491588.5	5366416
IMG_6353	4219540	491496.5	5366416
IMG_6354	4219540	491401.9	5366415
IMG_6355	4219540	491306.9	5366416
IMG_6371	4219540	491998.4	5365569
IMG_6372	4219540	491898.4	5365575
IMG_6373	4219540	491796	5365570
IMG_6374	4219540	491692.2	5365575
IMG_6375	4219540	491597	5365574
IMG_6376	4219540	491493.9	5365569
IMG_6377	4219540	491393	5365573
IMG_6378	4219540	491292.7	5365573
IMG_6382	4219540	491328.6	5365417
IMG_6383	4219540	491424.8	5365418
IMG_6384	4219540	491518.8	5365414

NAME	Claim_ID	X	Y
IMG_6385	4219540	491610.8	5365418
IMG_6386	4219540	491709.3	5365416
IMG_6387	4219540	491805.3	5365419
IMG_6388	4219540	491899.9	5365413
IMG_6389	4219540	492000.6	5365419
IMG_6420	4219540	492012.3	5365265
IMG_6421	4219540	491911.2	5365257
IMG_6422	4219540	491816.7	5365263
IMG_6423	4219540	491718.9	5365259
IMG_6424	4219540	491621.3	5365262
IMG_6425	4219540	491529.5	5365265
IMG_6426	4219540	491441.3	5365269
IMG_6427	4219540	491343.4	5365266
IMG_6444	4219540	491296.9	5365032
IMG_6445	4219540	491394.2	5365032
IMG_6446	4219540	491489.7	5365031
IMG_6447	4219540	491584.3	5365031
IMG_6448	4219540	491680.8	5365039
IMG_6449	4219540	491765.8	5365029
IMG_6450	4219540	491857	5365028
IMG_6451	4219540	491948.1	5365026
IMG_6452	4219540	492041.8	5365027
IMG_6482	4219540	491994.4	5364875
IMG_6483	4219540	491897.8	5364873
IMG_6484	4219540	491799.6	5364875
IMG_6485	4219540	491705.8	5364876
IMG_6486	4219540	491606.5	5364874
IMG_6487	4219540	491508.7	5364874
IMG_6488	4219540	491410.3	5364875
IMG_6489	4219540	491312.3	5364876
IMG_6516	4223279	491130.7	5364568
IMG_6517	4223279	491228.9	5364567
IMG_6518	4223279	491318.9	5364569
IMG_6519	4223279	491414.2	5364567
IMG_6520	4223279	491509.7	5364569
IMG_6521	4223279	491610.5	5364569
IMG_6522	4223279	491701.6	5364569
IMG_6523	4223279	491794.7	5364568
IMG_6524	4223279	491892	5364565
IMG_6525	4223279	491983.6	5364567
IMG_6526	4223279	492078.8	5364566
IMG_6556	4223279	492017	5364727
IMG_6557	4223279	491918.2	5364727
IMG_6558	4223279	491820	5364733
IMG_6559	4223279	491727.4	5364727
IMG_6560	4223279	491627.1	5364732
IMG_6561	4223279	491529.3	5364731
IMG_6562	4223279	491429.7	5364730
IMG_6563	4223279	491333.8	5364731
IMG_6564	4223279	491239.6	5364736
IMG_6565	4223279	491145.3	5364734
IMG_6566	4223279	491053.5	5364734
IMG_6592	4223279	491130.1	5364434
IMG_6593	4223279	491222.6	5364434
IMG_6594	4223279	491313.1	5364434
IMG_6595	4223279	491404.3	5364433
IMG_6596	4223279	491496.4	5364437
IMG_6597	4223279	491580.8	5364435
IMG_6598	4223279	491678.5	5364440
IMG_6599	4223279	491824.9	5364441
IMG_6600	4223279	491915.9	5364445
IMG_6601	4223279	492008.1	5364441
IMG_6648	4223279	492050.7	5364425
IMG_6649	4223279	491958.4	5364445
IMG_6650	4223279	491860.9	5364466

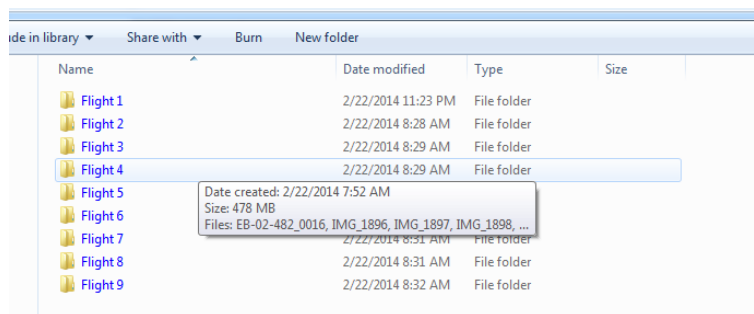
Postflight Terra Plus 3D Processing Steps

Prior to opening the Processing software you must take all data off the drones and the GPS. Flights on the drones are always dated, named with the drone serial number and the flight number increments by one for every flight (ie: eBee482_flight_17). Flights should be separated into folders with the images and flight data file in each folder. Please see below:

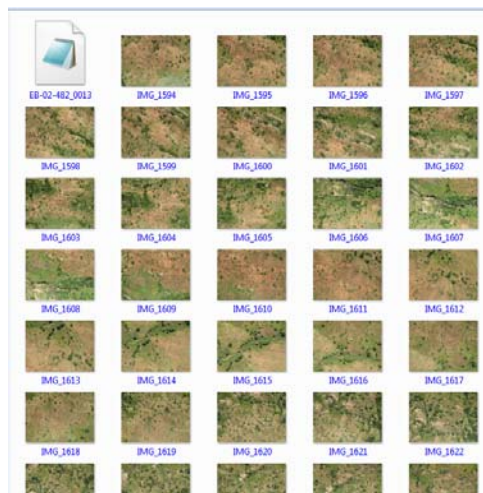
- Create a folder for the flight data (use the E: drive on the computer and put all data in the eBee processing folder)



- Create a folder for each flight



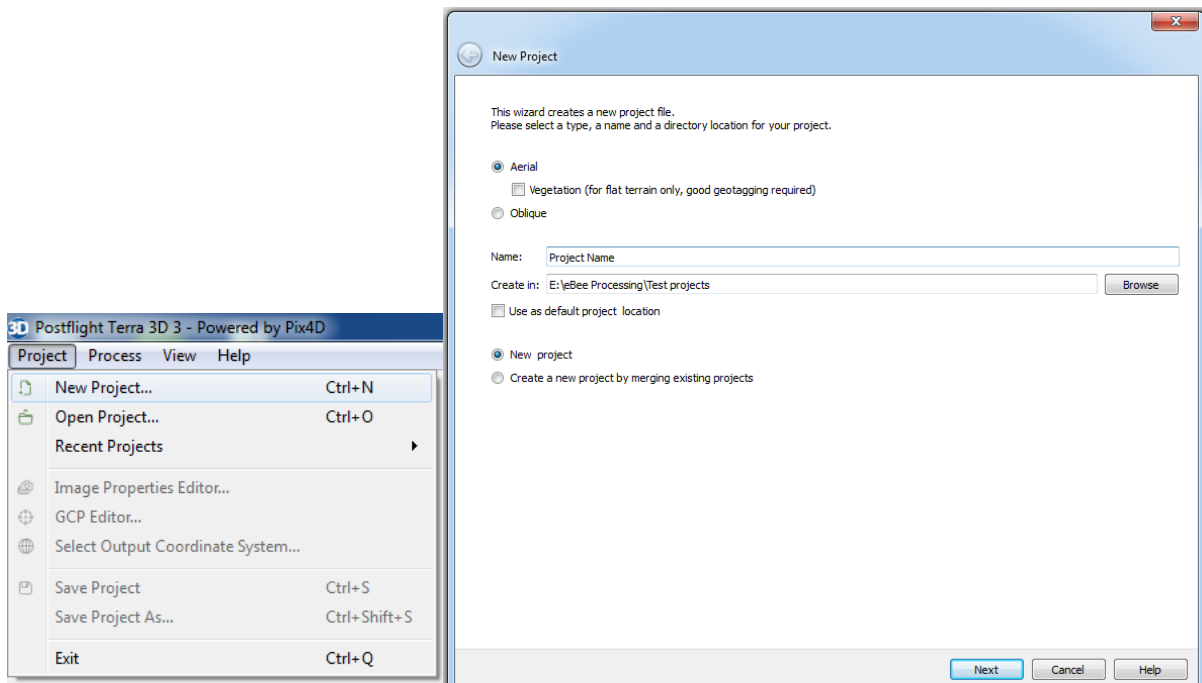
- Copy the flight file from the drone and the images for the flight into the flight folder. You can determine which flight the photos belong to by looking at the break in the time stamp of when the photos were taken.



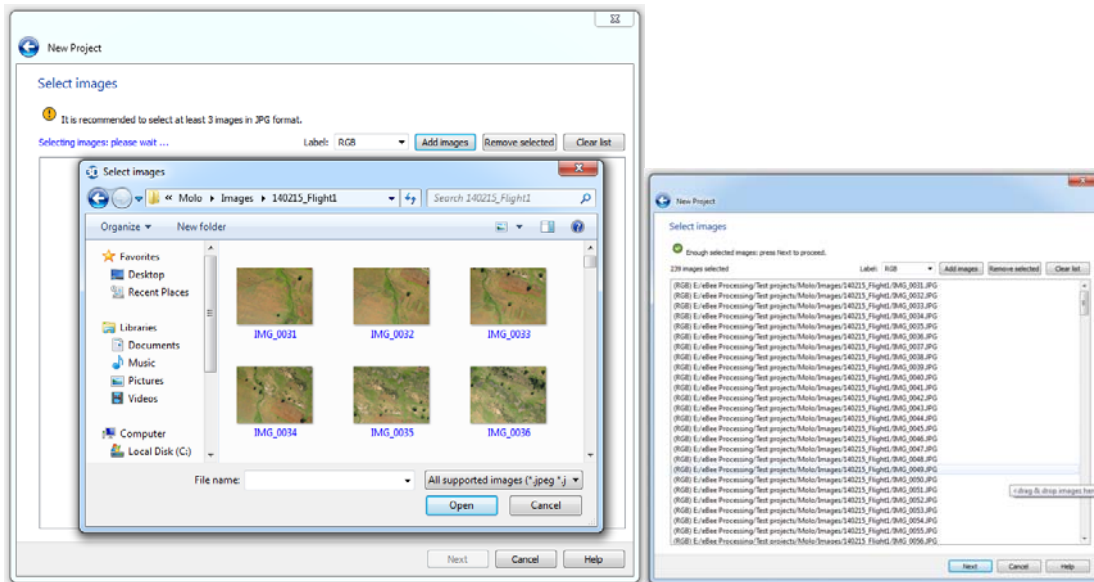
- The GPS data should be copied from the Tesla handheld unit. To do this you must open the “Job” on the unit. Then go to the “Exchange folder, and click the “To file button”. You only need to copy the point files, then click the green check mark on the screen. Then name file file, click the green checkmark again and it will say how many files are saved. After that plug in the unit into the computer, navigate to the IEFiles folder and copy the files to your computer. The GPS saves the files in a ID,Y, X, Z format. You need to change this to an ID, X, Y,Z format with excel, as this is what Postflight needs for importing.

Once all the Data is copied to the computer you can then begin the processing:

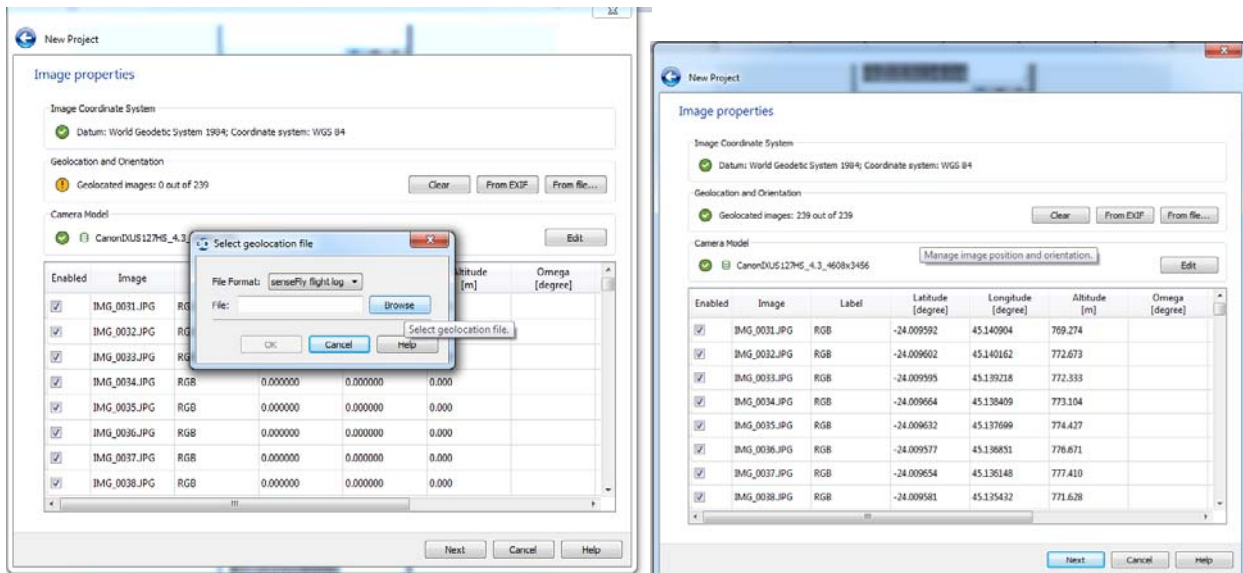
1. Open the Postflight 3D Software on the desktop, click new project (left image below) and then create a project name and a folder for the project (image below on the right). Then click next:



2. You need to add the images from 1 of the days flights by clicking the add images button (see below) and selecting all the images from a flight. This will bring in a list of images (bottom right image) and then click next.

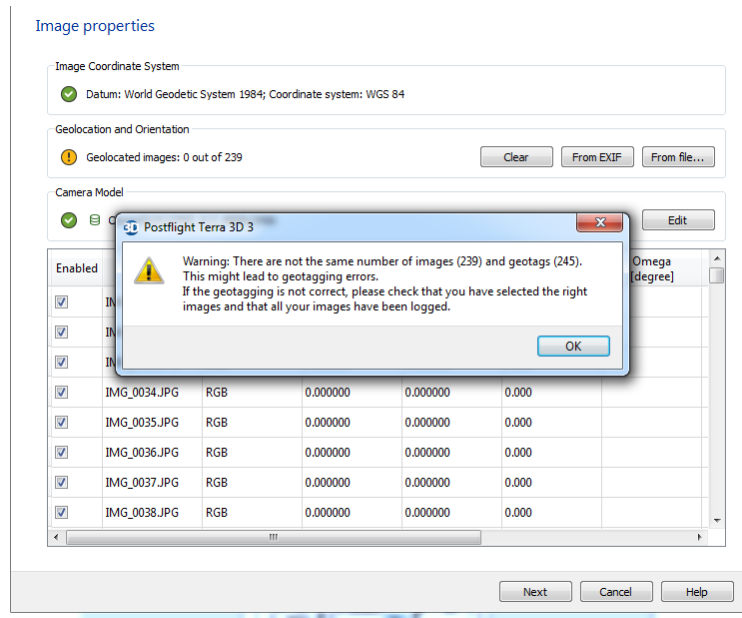


- Now add the flight data file for the flight, by clicking the "From File.." button, you will then be able to browse for the flight file. This step adds all the geotag information to the image, you can see on the picture to the right below. You can see the lat and lon information as well as the altitude information.

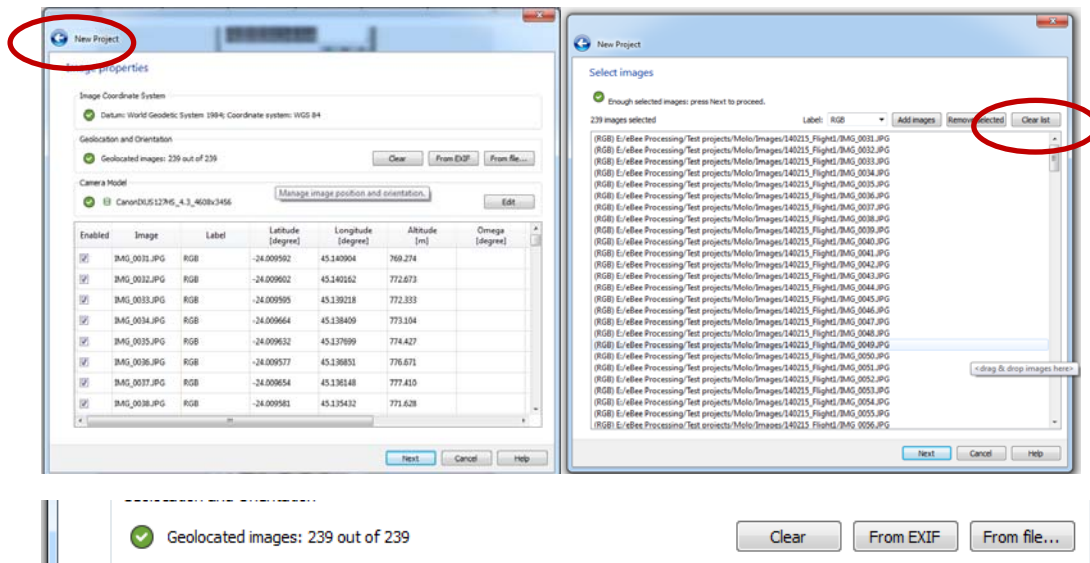


If an error message occurs when opening the flight file (see image below), you must check that the images are saved in the correct flight. Below you can see that there are 239 images but the flight file has 245 tagged images. Make sure all the images are copied in the correct flight folder. Double check the time stamps on the photos, the camera memory card, etc. Once you have located the correct

photos you can try again. **YOU CANNOT CONTINUE PROCESSING UNTIL YOU GET ALL OF THE PHOTOS WITH THE CORRECT GEOTAG INFORMATION.**

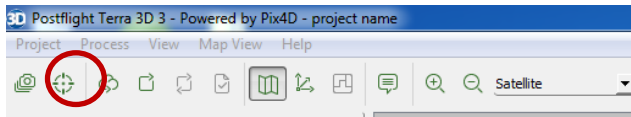


- If you have multiple flights, click the back button once the images are all geotagged, click clear on the images page and then complete steps 2 and 3 over until all flights are loaded and the images are geotagged. Once all flight images have geotags you can go to step 2 and import all images from all the flights. After you click next make sure all images have geotag information.

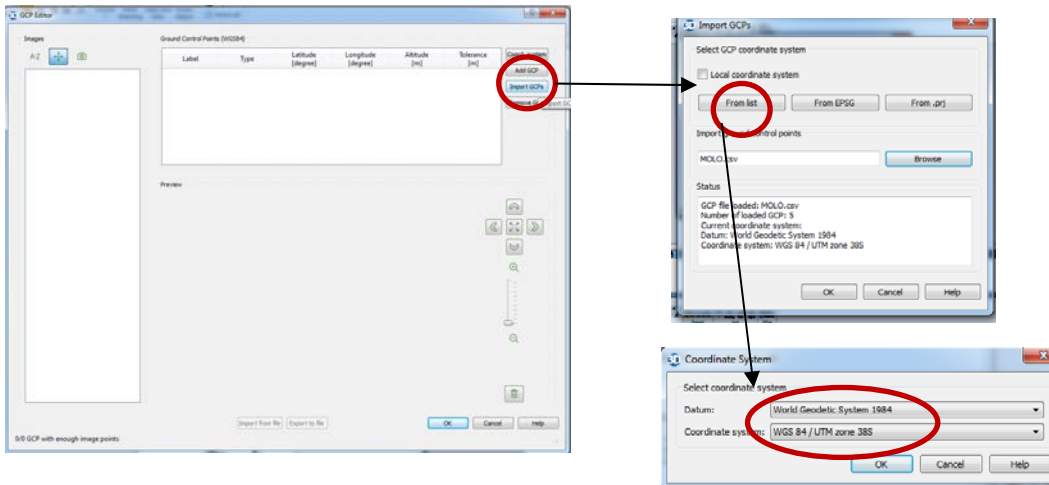


Finally click next and then create project.

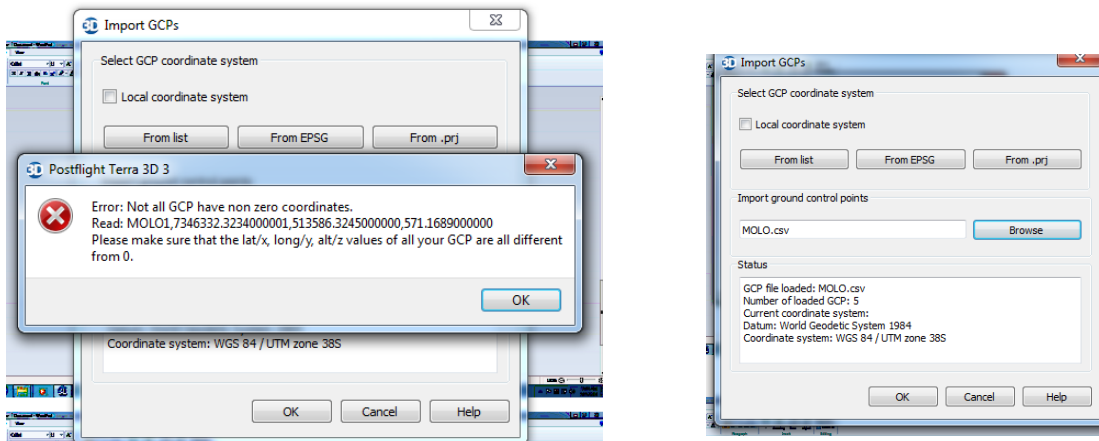
- Adding the Ground control points. You must click on the cross-hair button below. For larger areas that are split up you should use 3 GCPs. If the entire area is covered in once day of flying you should use 5 GCPs.



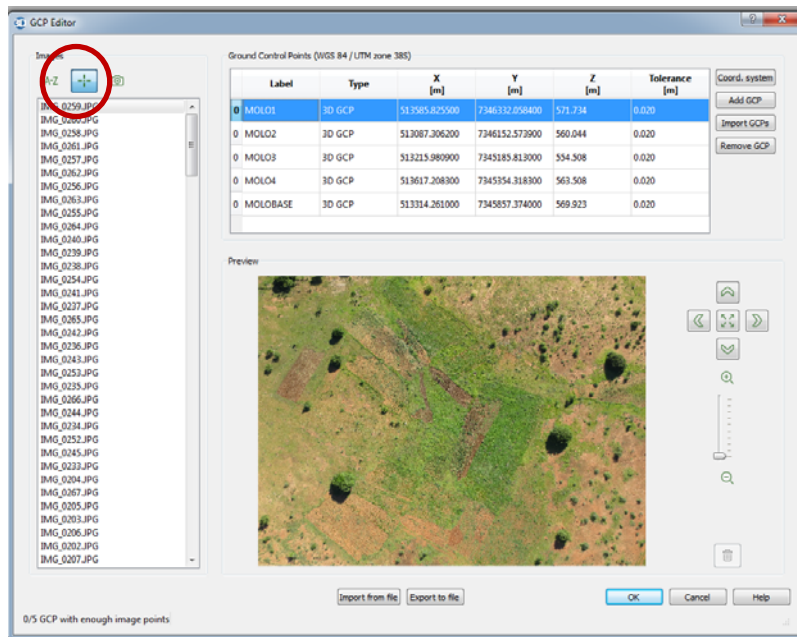
Click on the "Import GCPs" button. Then change your coordinate systems with the "From List" button, you should change this to WGS 84 Zone 38S. Then click the browse button and open your saved GCP's that have been downloaded from the RTK GPS.



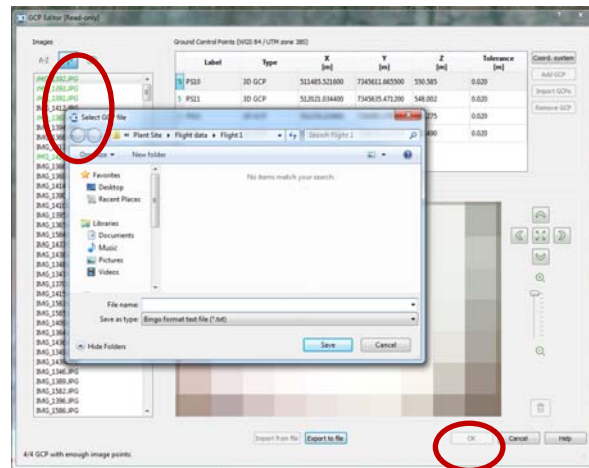
If you get the error below you must check you GCP point file or your coordinate system. Make sure your GCP point file is in the proper format (ID, X, Y,Z). Also make sure there are no spaces in the ID name, as it will cause an error as well. If the file is ok, make sure you check that you have changed the coordinate system to WGS 84 ZONE 38S. Once they are imported properly with no errors you can continue (Image below right is how the GCPs should look if imported properly).



- Once the GCP points are imported you will see the following screen below. Now you need to find each GCP in at least 5 pictures. If you click on the first GCP and then the X (circled in red below) it will organize the photos from top to bottom in order of what photos have the selected GCP in it. You then need to zoom in on the image as far as you can and select the GCP. Once this is completed the you will see that the image name has turned green on the left. Do this for 5 photos and then move onto the next GCP, and so on until all GCP points are found in 5 photos.

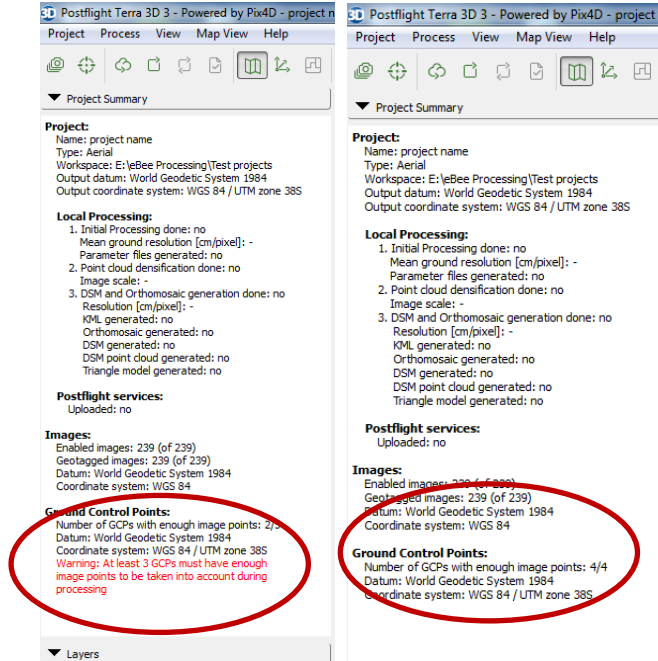


Once all the GCPs points are completed you can you see that the photos are highlighted in Green (image below). You can then “export to file”, this will save the ground control point selection so that if you want to process again, you do not have to find them in the pictures, you can just load the file. Once you are done, click ok.

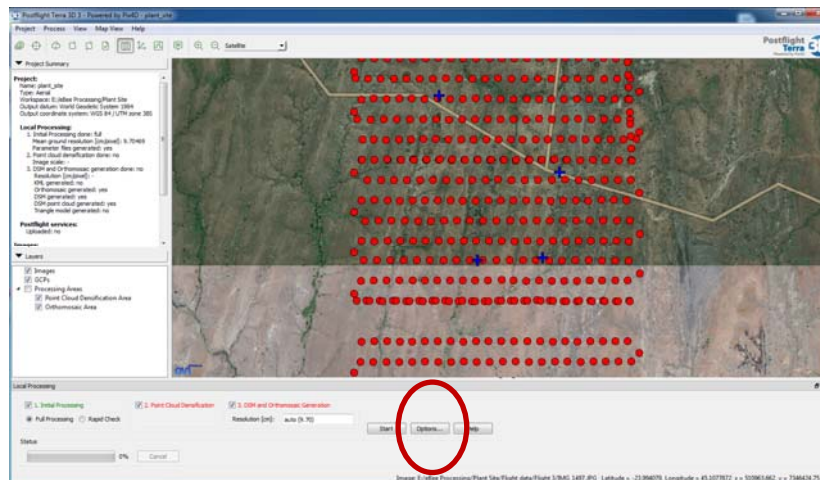


If you have finished you GCPs and you see red like the image below to the left, it means you have not

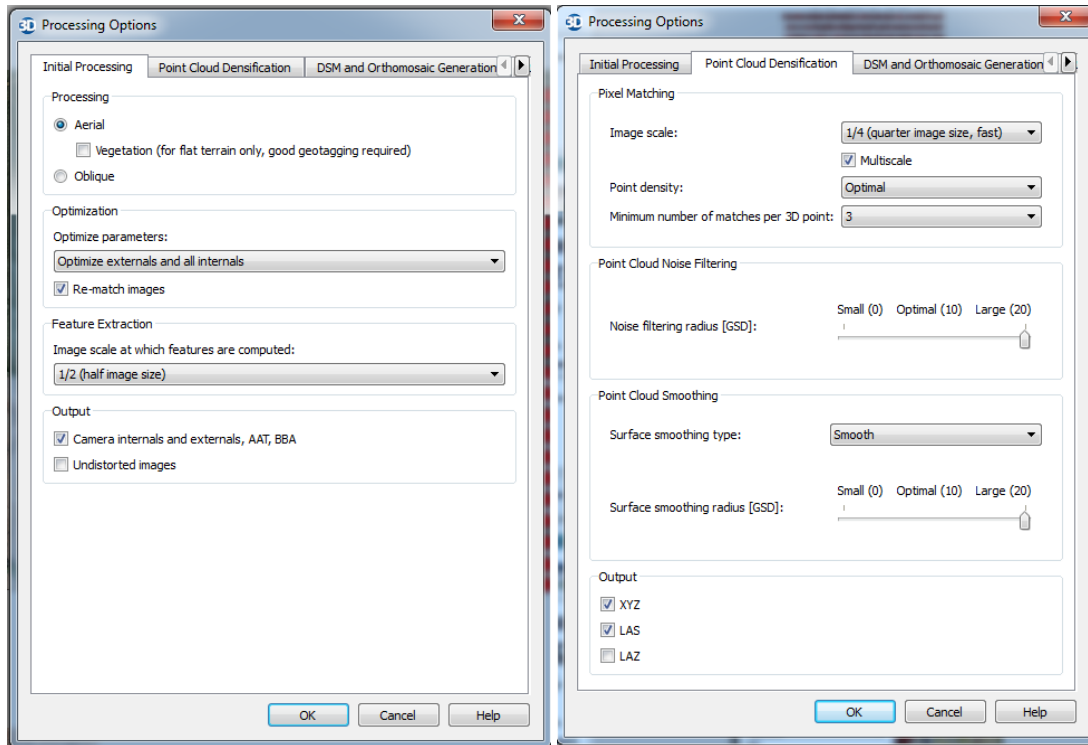
selected enough pictures for each point. Please go back and select more pictures. If you have selected enough pictures for each point you will see the image to the right. Double check to make sure you have the correct coordinate system (WGS 84 UTM Zone 38S)



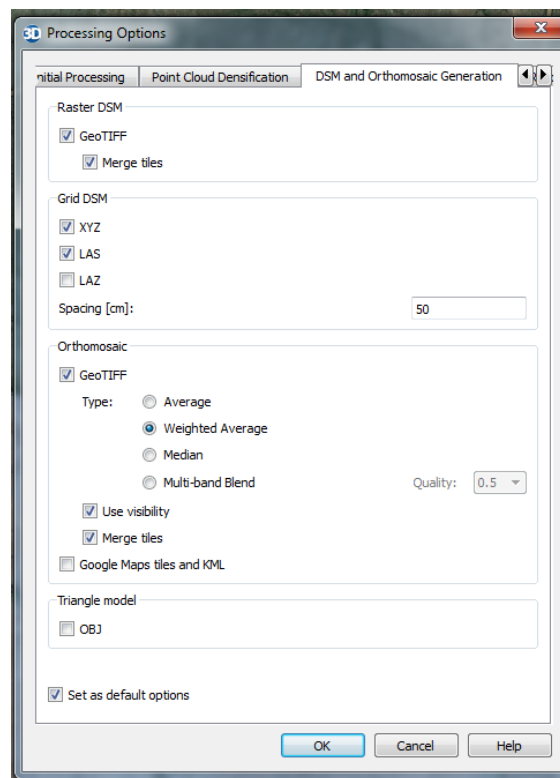
- Next is local processing. Click on the local processing button. At this point all the images you imported should be small red dots and all the GCPs should be blue. All of the blue X marks should be covered with red dots. Click the options button beside the start button to change the options before processing.



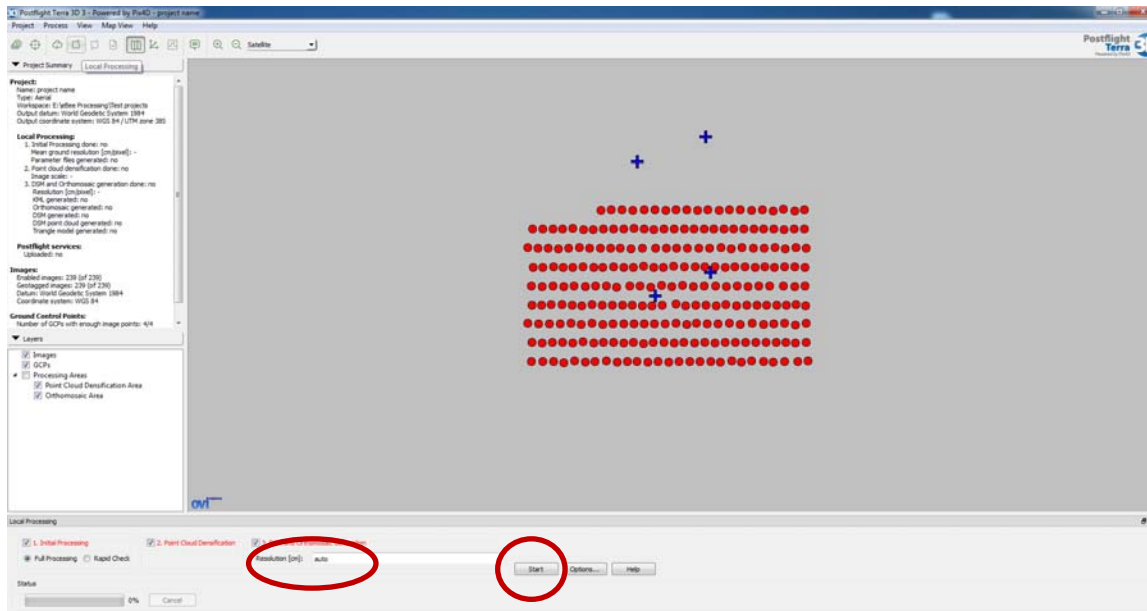
Change the Initial Processing and the Point Cloud Densification to the Options selected below (you will have to do this for each project, as the program does not save what you selected last time). You can use ½ image or full image feature extraction for the initial processing this depends on picture quality/overlap:



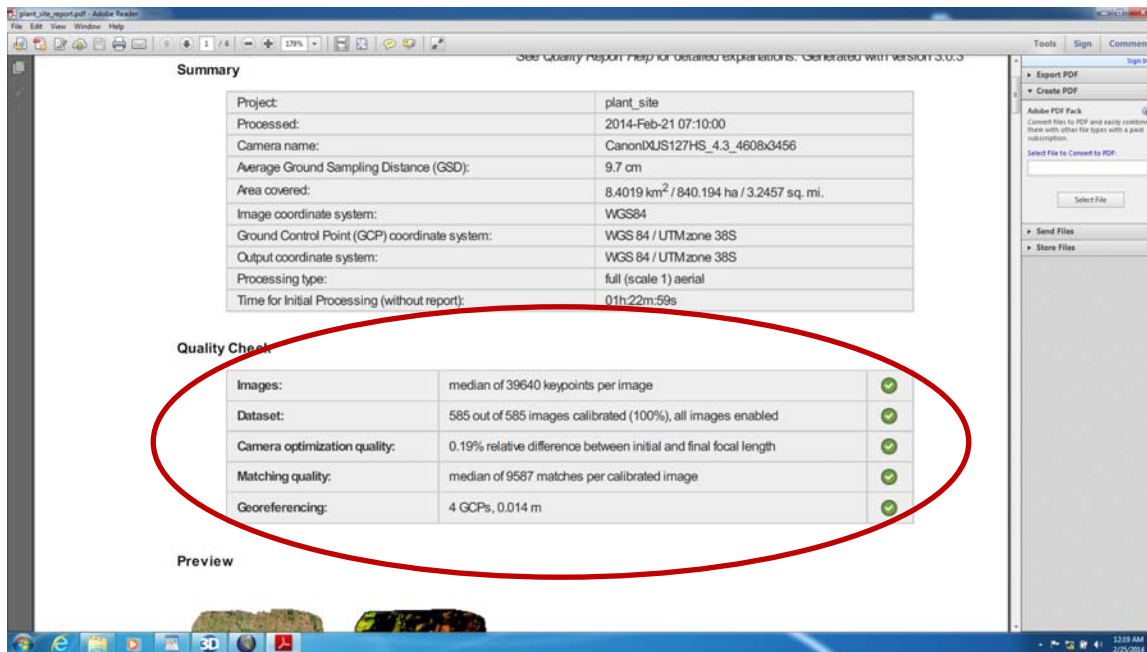
Change the DSM and Orthomosaic to the Options below:



Once the options are selected, click the ok button. Now you can change the resolution to 40 cm's and then click start.



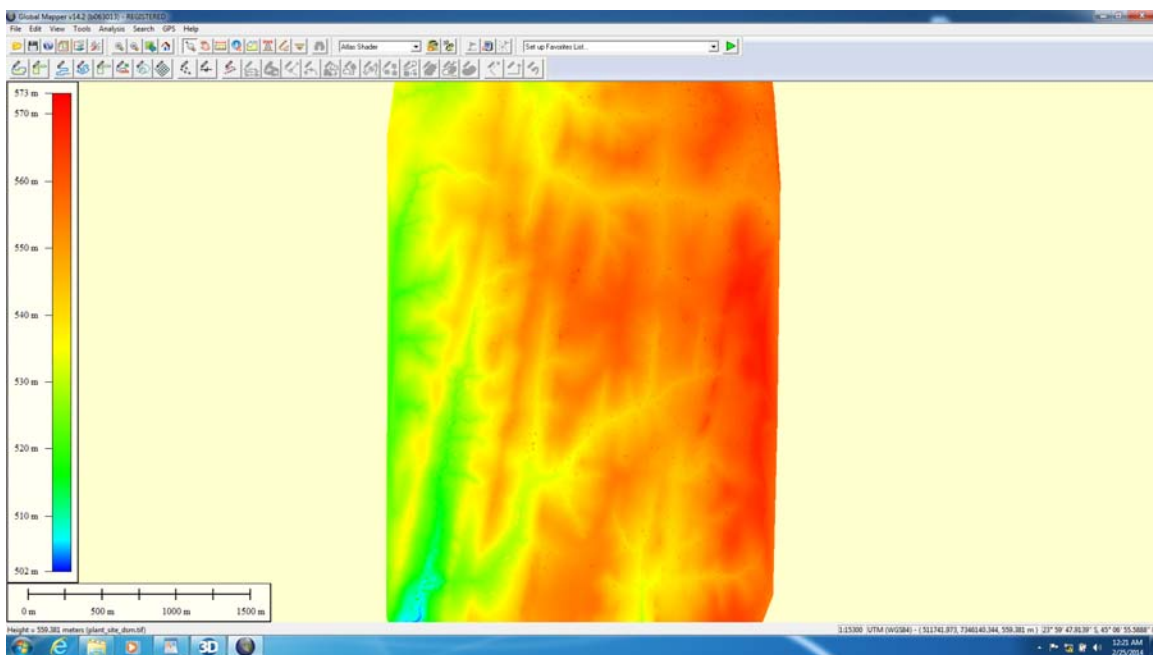
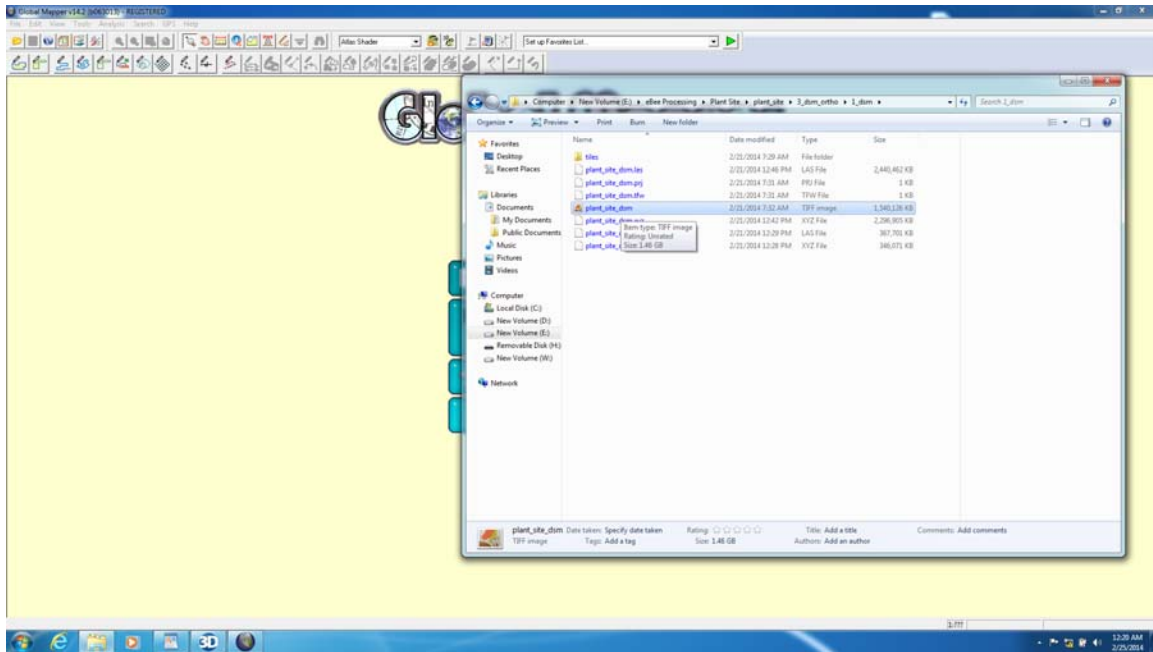
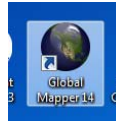
Once the initial processing is completed you will get a report. Check the report “Quality Check” area to make sure the initial processing was completed correctly. If this was not completed correctly, you will need to start again.



Processing time can take up to more than 10 hours, so be patient.

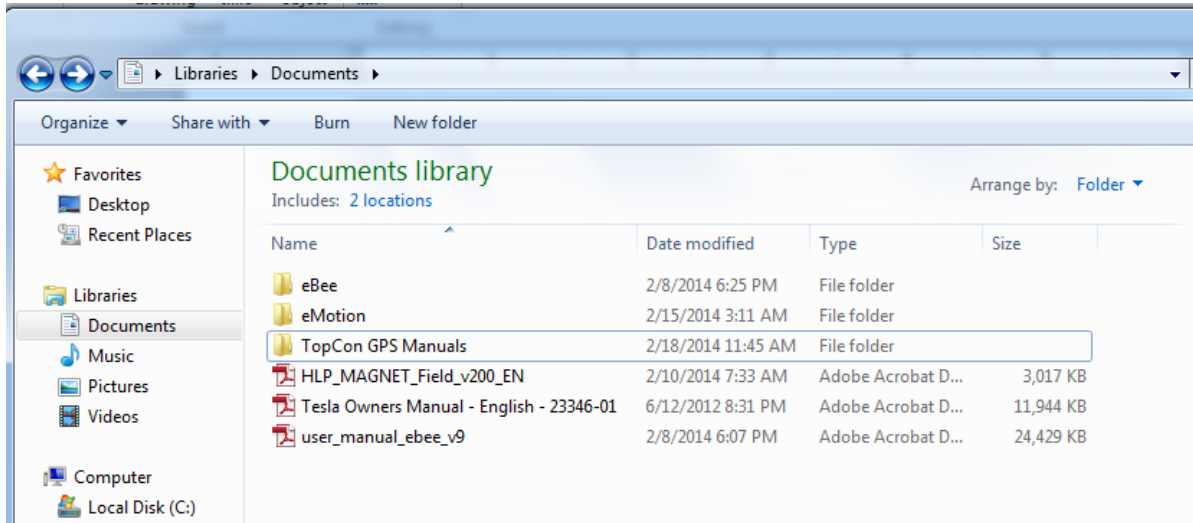
- Once the processing is completed you will need to check the ortho photo and the DSM. These can be easily checked by bringing the files into Global Mapper. Open Global Mapper and then

drag and drop the ortho photo and the DSM image into the software. Check that the ortho photo is clear and that most trees are removed in the DSM file.



Other Help Files:

Located in the my documents folder of the processing computer you can find some extra help files. You will find the user manual for the eBee, the user manual for the GPS handheld unit and the user manual for the Magnet Field software which is loaded onto the GPS handheld unit.



- !** **Important:** Click on the different icons for:
- ?** Help to analyze the results in the Quality Report
 - i** Additional information about the feature

💡 Click [here](#) for additional tips to analyze the Quality Report

Summary **i**

Project	mtlogano
Processed	2015-Jul-17 10:57:36
Camera Model Name	CanonIXUS127HS_4.3_4608x3456 (RGB)
Average Ground Sampling Distance (GSD)	10.31 cm / 4.06 in
Area Covered	44.1411 km ² / 4414.11 ha / 17.0518 sq. mi. / 10913.1 acres
Image Coordinate System	WGS84
Ground Control Point (GCP) Coordinate System	WGS 84 / UTMzone 17N
Output Coordinate System	WGS 84 / UTMzone 17N
Processing Type	full Aerial nadir
Feature Extraction Image Scale	0.5
Camera Model Parameter Optimization	optimize externals and all internals
Time for Initial Processing (without report)	02h:27m:28s

Quality Check **i**

? Images	median of 23680 keypoints per image	✓
? Dataset	2114 out of 2249 images calibrated (93%), all images enabled, 8 blocks	⚠
? Camera Optimization	0.1% relative difference between initial and final focal length	✓
? Matching	median of 1652.15 matches per calibrated image	✓
? Georeferencing	4 GCPs (4 3D), mean error = 0.014 m	✓

? Preview **i**

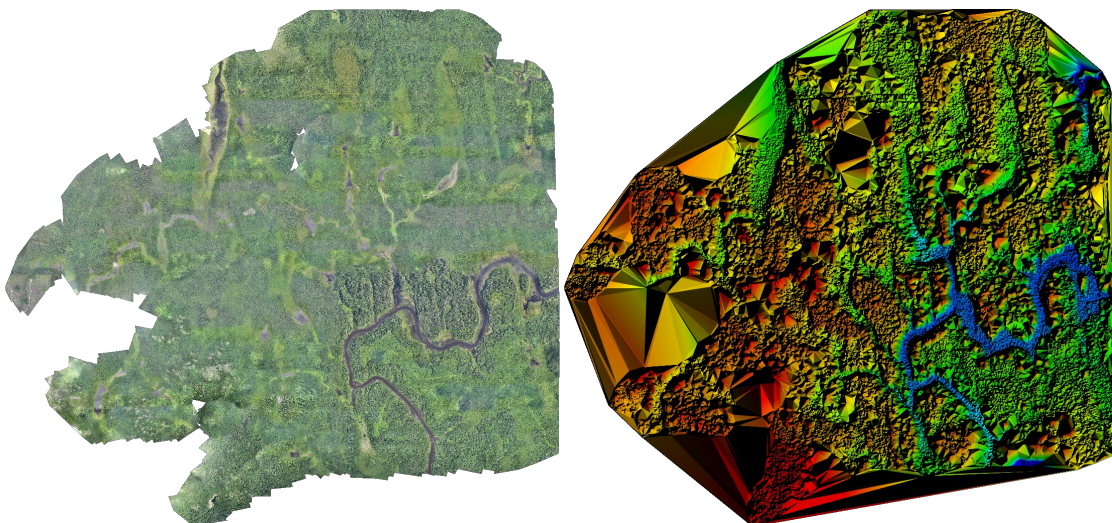


Figure 1: Orthomosaic and the corresponding sparse Digital Surface Model (DSM) before densification.

Calibration Details



Number of Calibrated Images	2114 out of 2249
Number of Geolocated Images	2249 out of 2249

Initial Image Positions

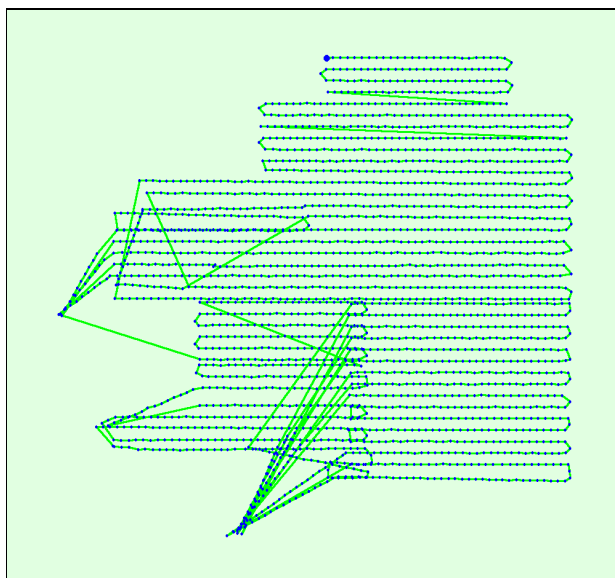


Figure 2: Top view of the initial image position. The green line follows the position of the images in time starting from the large blue dot.

Computed Image/GCPs/Manual Tie Points Positions



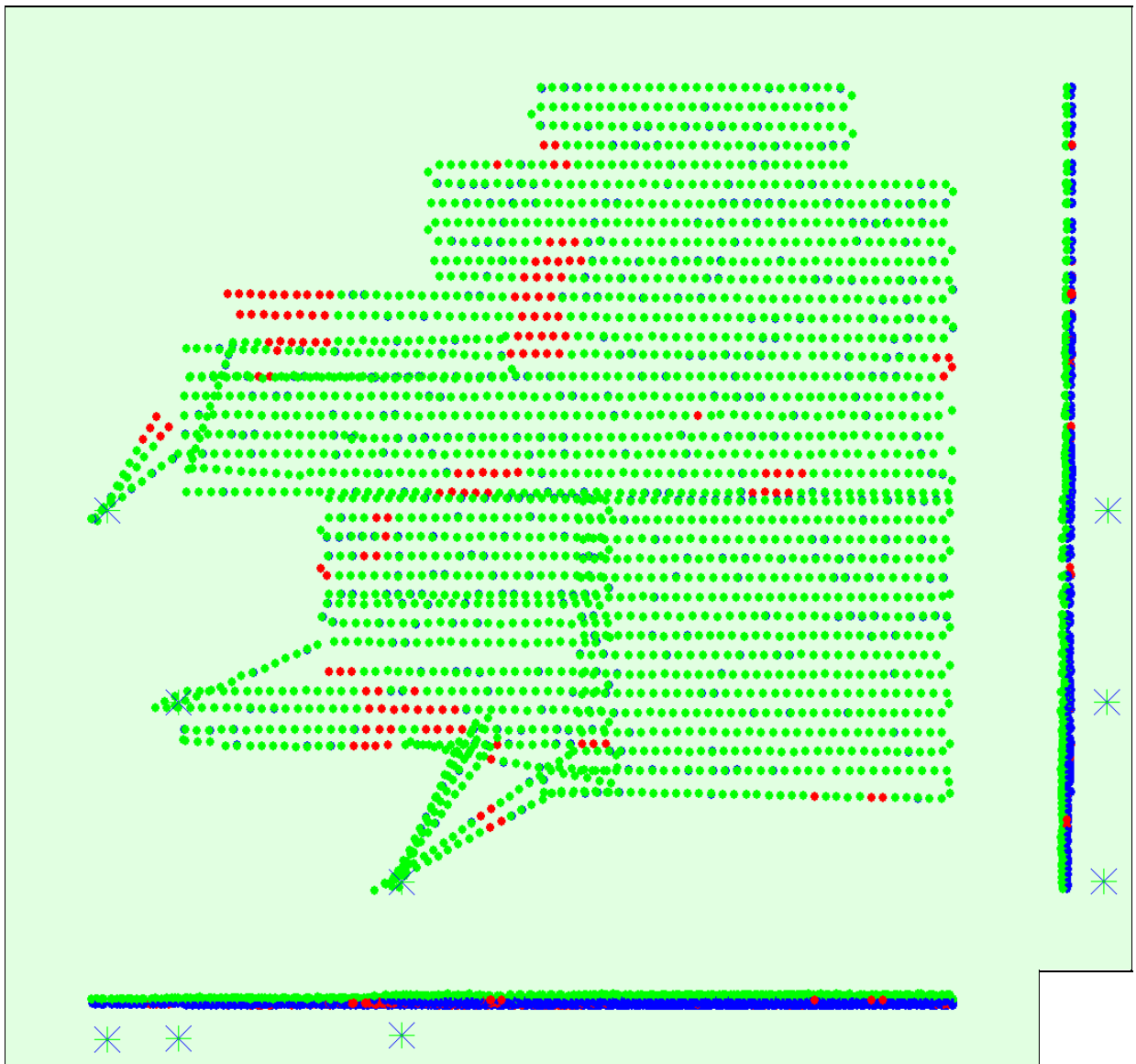


Figure 3: Offset between initial (blue dots) and computed (green dots) image positions as well as the offset between the GCPs initial positions (blue crosses) and their computed positions (green crosses) in the top-view (XY plane), front-view (XZ plane), and side-view (YZ plane). Red dots indicate disabled or uncalibrated images.

Overlap

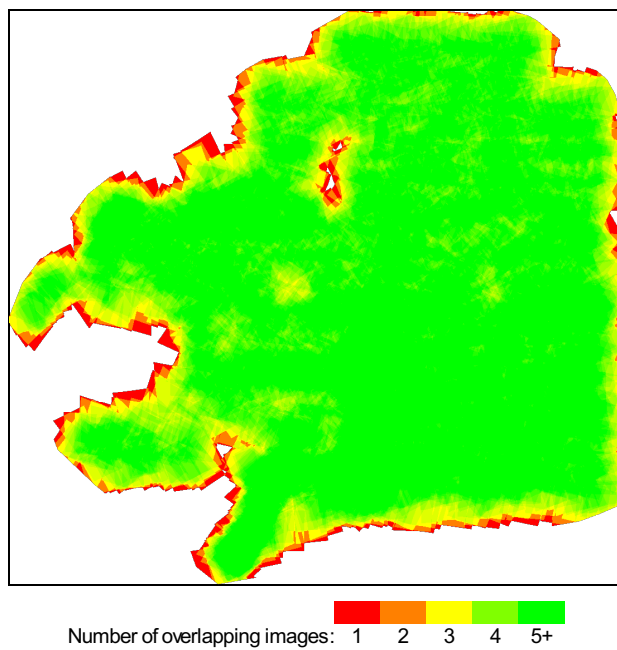


Figure 4: Number of overlapping images computed for each pixel of the orthomosaic.

Red and yellow areas indicate low overlap for which poor results may be generated. Green areas indicate an overlap of over 5 images for every pixel. Good quality results will be generated as long as the number of keypoint matches is also sufficient for these areas (see Figure 5 for keypoint matches).

Bundle Block Adjustment Details



Number of 2D Keypoint Observations for Bundle Block Adjustment	3866071
Number of 3D Points for Bundle Block Adjustment	1630716
Mean Reprojection Error [pixels]	0.0966142

? Internal Camera Parameters

CanonIXUS127HS_4.3_4608x3456 (RGB). Sensor Dimensions: 6.170 [mm] x 4.628 [mm]



EXIF ID: CanonIXUS127HS_4.3_4608x3456

	Focal Length	Principal Point x	Principal Point y	R1	R2	R3	T1	T2
Initial Values	3270.924 [pixel] 4.380 [mm]	2303.999 [pixel] 3.085 [mm]	1728.000 [pixel] 2.314 [mm]	-0.049	0.059	-0.036	0.000	-0.003
Optimized Values	3267.652 [pixel] 4.375 [mm]	2304.088 [pixel] 3.085 [mm]	1684.764 [pixel] 2.256 [mm]	-0.050	0.055	-0.032	-0.003	0.001

? 2D Keypoints Table



	Number of 2D Keypoints per Image	Number of Matched 2D Keypoints per Image
Median	23680	1652
Mn	7957	95
Max	34176	8664
Mean	23635	1829

? 3D Points from 2D Keypoint Matches



	Number of 3D Points Observed
In 2 Images	1284425
In 3 Images	221160
In 4 Images	67583
In 5 Images	26971
In 6 Images	12825
In 7 Images	6913
In 8 Images	4134
In 9 Images	2545
In 10 Images	1652
In 11 Images	1090
In 12 Images	652
In 13 Images	401
In 14 Images	180
In 15 Images	72
In 16 Images	41
In 17 Images	12
In 18 Images	13
In 19 Images	16
In 20 Images	9
In 21 Images	2
In 22 Images	4
In 23 Images	6
In 24 Images	7
In 25 Images	3

? 3D Points from 2D Keypoint Matches

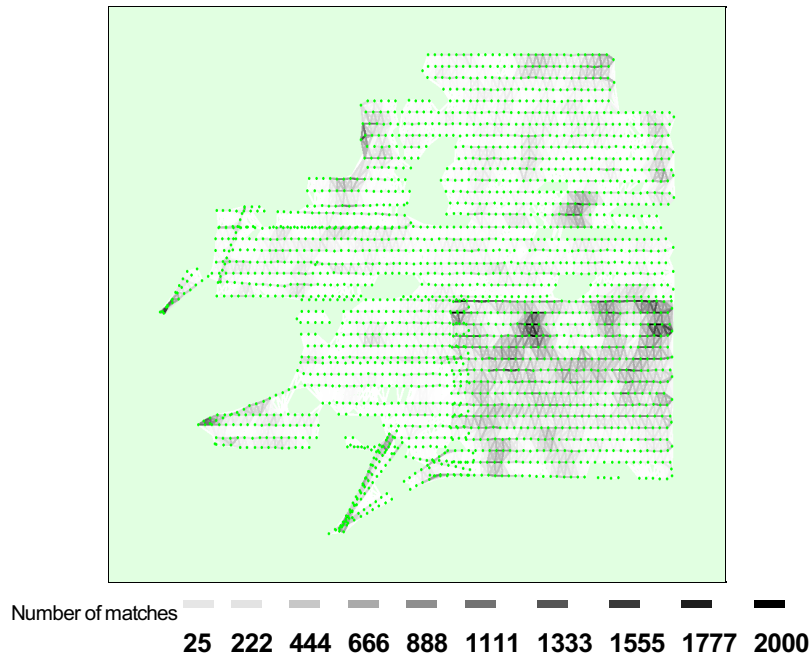


Figure 5: Top view of the image computed positions with a link between matching images. The darkness of the links indicates the number of matched 2D keypoints between the images. Bright links indicate weak links and require manual tie points or more images.

Geolocation Details



? Ground Control Points



GCP Name	Accuracy XYZ [m]	Error X [m]	Error Y [m]	Error Z [m]	Projection Error [pixel]	Verified/Marked
0 (3D)	0.020/ 0.020	1475.147	1226.402	34.083	-1.000	0 / 1
2 (3D)	0.020/ 0.020	-0.001	0.000	0.024	0.231	3 / 3
3 (3D)	0.020/ 0.020	0.006	-0.002	-0.074	0.084	3 / 3
4 (3D)	0.020/ 0.020	0.000	-0.000	-0.012	0.212	3 / 3
Mean		0.001625	-0.000727	-0.020889		
Sigma		0.003296	0.000984	0.040469		
RMS Error		0.003675	0.001223	0.045542		

Localisation accuracy per GCP and mean errors in the three coordinate directions. The last column counts the number of images where the GCP has been automatically verified vs. manually marked.

? Absolute Geolocation Variance



0 out of 2114 geolocated and calibrated images have been labeled as inaccurate.

Mn Error [m]	Max Error [m]	Geolocation Error X [%]	Geolocation Error Y [%]	Geolocation Error Z [%]
-	-7.47	0.05	0.00	0.00
-7.47	-5.98	0.05	0.00	0.00
-5.98	-4.48	0.05	0.00	0.05
-4.48	-2.99	0.28	0.14	1.09
-2.99	-1.49	5.11	8.42	8.99
-1.49	0.00	43.76	38.41	42.86
0.00	1.49	46.74	46.69	31.22
1.49	2.99	3.41	6.05	13.20
2.99	4.48	0.43	0.14	2.41
4.48	5.98	0.05	0.09	0.19
5.98	7.47	0.05	0.00	0.00
7.47	-	0.05	0.05	0.00

Mean	0.474831	0.293840	-38.663059
Sigma	1.000686	1.049107	1.376292
RMS Error	1.107627	1.089480	38.687548

Min Error and Max Error represent geolocation error intervals between -1.5 and 1.5 times the maximum accuracy of all the images. Columns X, Y, Z show the percentage of images with geolocation errors within the predefined error intervals. The geolocation error is the difference between the initial and computed image positions. Note that the image geolocation errors do not correspond to the accuracy of the observed 3D points.

Relative Geolocation Variance

Relative Geolocation Error	Images X[%]	Images Y[%]	Images Z[%]
[-1.00, 1.00]	99.53	99.81	97.26
[-2.00, 2.00]	99.91	100.00	100.00
[-3.00, 3.00]	100.00	100.00	100.00
Mean of Geolocation Accuracy	3.858486	3.858486	3.189709
Sigma of Geolocation Accuracy	0.301345	0.301345	0.419785


Images X, Y, Z represent the percentage of images with a relative geolocation error in X, Y, Z.

Geolocation Orientational Variance	RMS [degree]
Omega	5.193254
Phi	4.544130
Kappa	9.260741

Geolocation RMS error of the orientation angles given by the difference between the initial and computed image orientation angles.


Georeference Verification

GCP Name: 0
(492733.973000,5366584.762000,286.470000)




IMG_5595.JPG
IMG_5596.JPG
IMG_5597.JPG

GCP 0 was not marked in the following images (only up to 6 images shown). If the circle is too far away from the initial GCP position, also measure the GCP in these images to improve the accuracy.




IMG_6376.JPG
IMG_6379.JPG
IMG_6380.JPG
IMG_6381.JPG
IMG_6382.JPG
IMG_6425.JPG

GCP Name: 2
(490001.660000,5364779.594000,301.087000)



IMG_6442.JPG
IMG_6503.JPG
IMG_6577.JPG

GCP 2 was not marked in the following images (only up to 6 images shown). If the circle is too far away from the initial GCP position, also measure the GCP in these images to improve the accuracy.



IMG_6440.JPG
IMG_6441.JPG
IMG_6501.JPG
IMG_6502.JPG
IMG_6504.JPG
IMG_6575.JPG





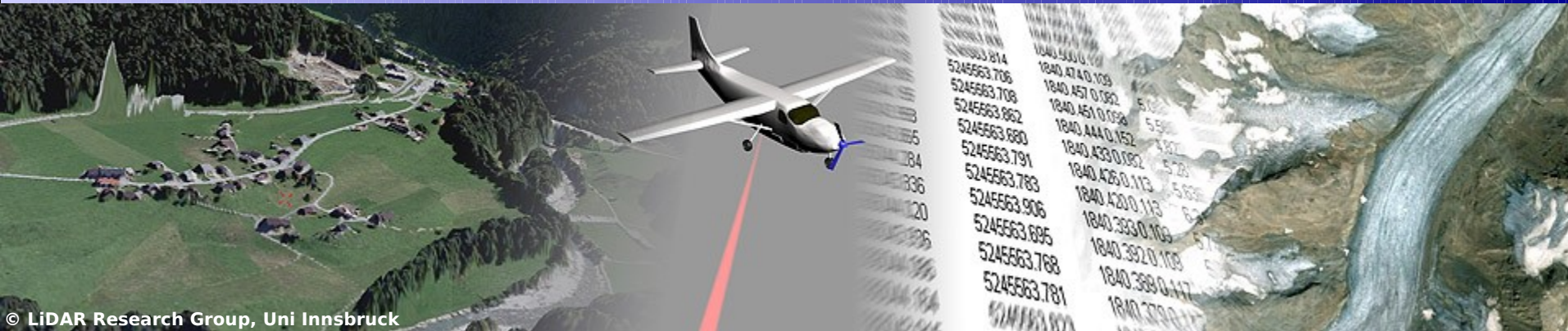
<p>GCP Name: 3 (489434.519000,5366318.669000,295.321000)</p> 		<p>IMG_5927.JPG IMG_6066.JPG IMG_6206.JPG</p>
<p>GCP 3 was not marked in the following images (only up to 6 images shown). If the circle is too far away from the initial GCP position, also measure the GCP in these images to improve the accuracy.</p> 		<p>IMG_5926.JPG IMG_6064.JPG IMG_6065.JPG IMG_6204.JPG IMG_6205.JPG</p>
<p>GCP Name: 4 (491789.472000,5363345.203000,323.121000)</p> 		<p>IMG_6732.JPG IMG_6733.JPG IMG_7271.JPG</p>
<p>GCP 4 was not marked in the following images (only up to 6 images shown). If the circle is too far away from the initial GCP position, also measure the GCP in these images to improve the accuracy.</p> 		<p>IMG_6731.JPG IMG_6811.JPG IMG_6812.JPG IMG_6813.JPG IMG_6893.JPG IMG_6894.JPG</p>

Figure 7: Images in which GCPs have been marked (yellow circle) and in which their computed 3D points have been projected (green circle). A green circle outside of the yellow circle indicates either an accuracy issue or a GCP issue.

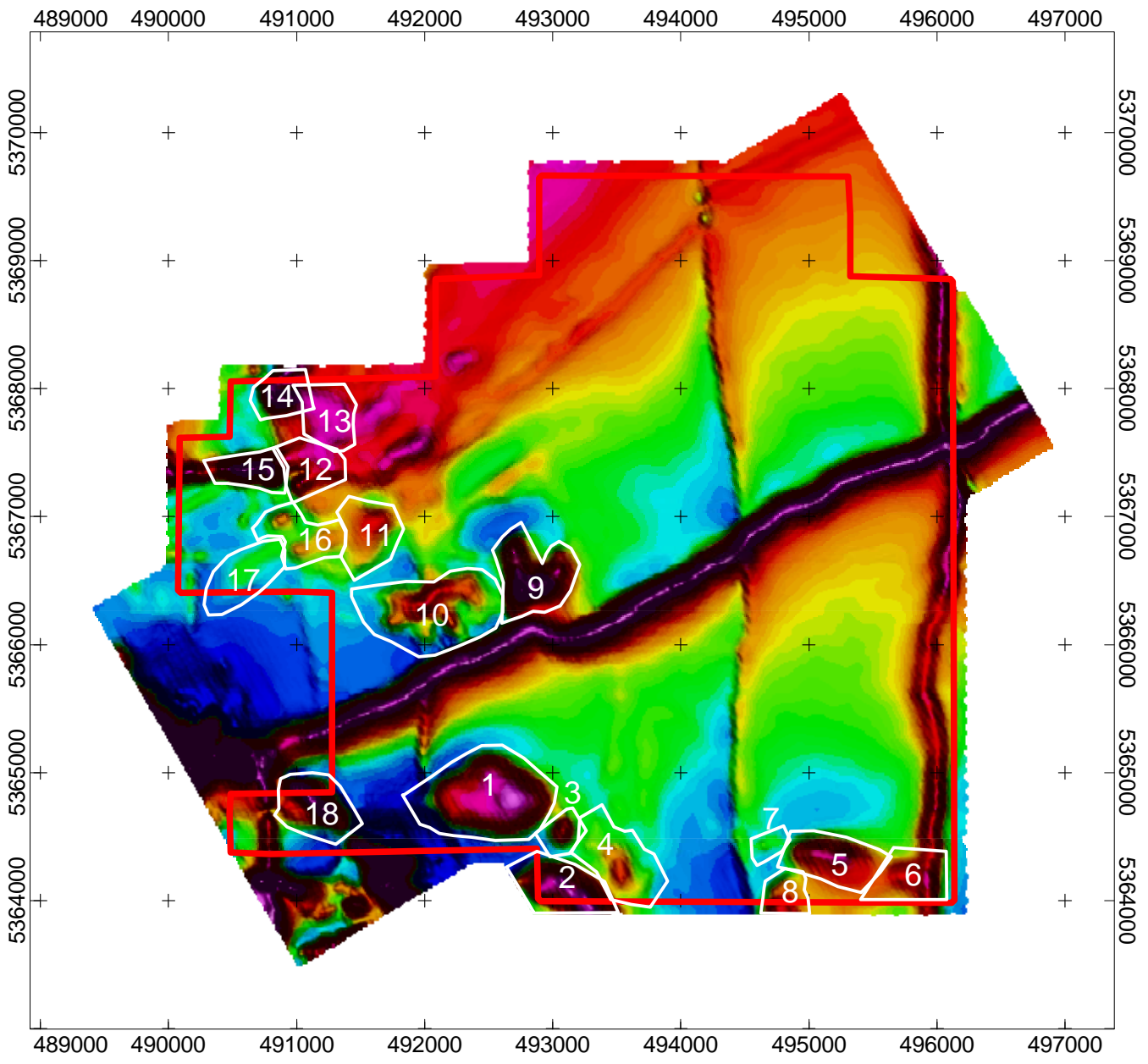


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LiDAR Point Cloud Processing with SAGA

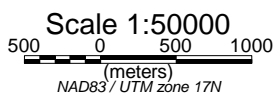
Volker Wichmann

Wichmann, V.; Conrad, O.; Jochem, A.: LiDAR Point Cloud Processing with SAGA GIS.
In: Hamburger Beiträge zur Physischen Geographie und Landschaftsökologie 20, S. 81-90.

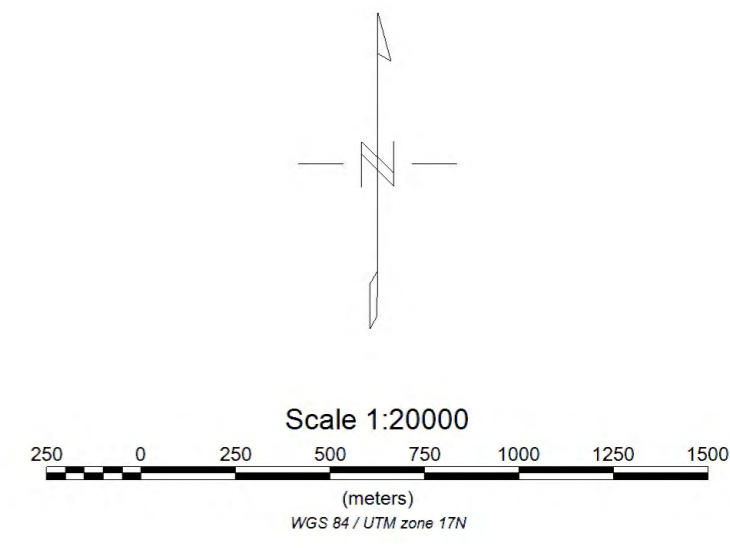
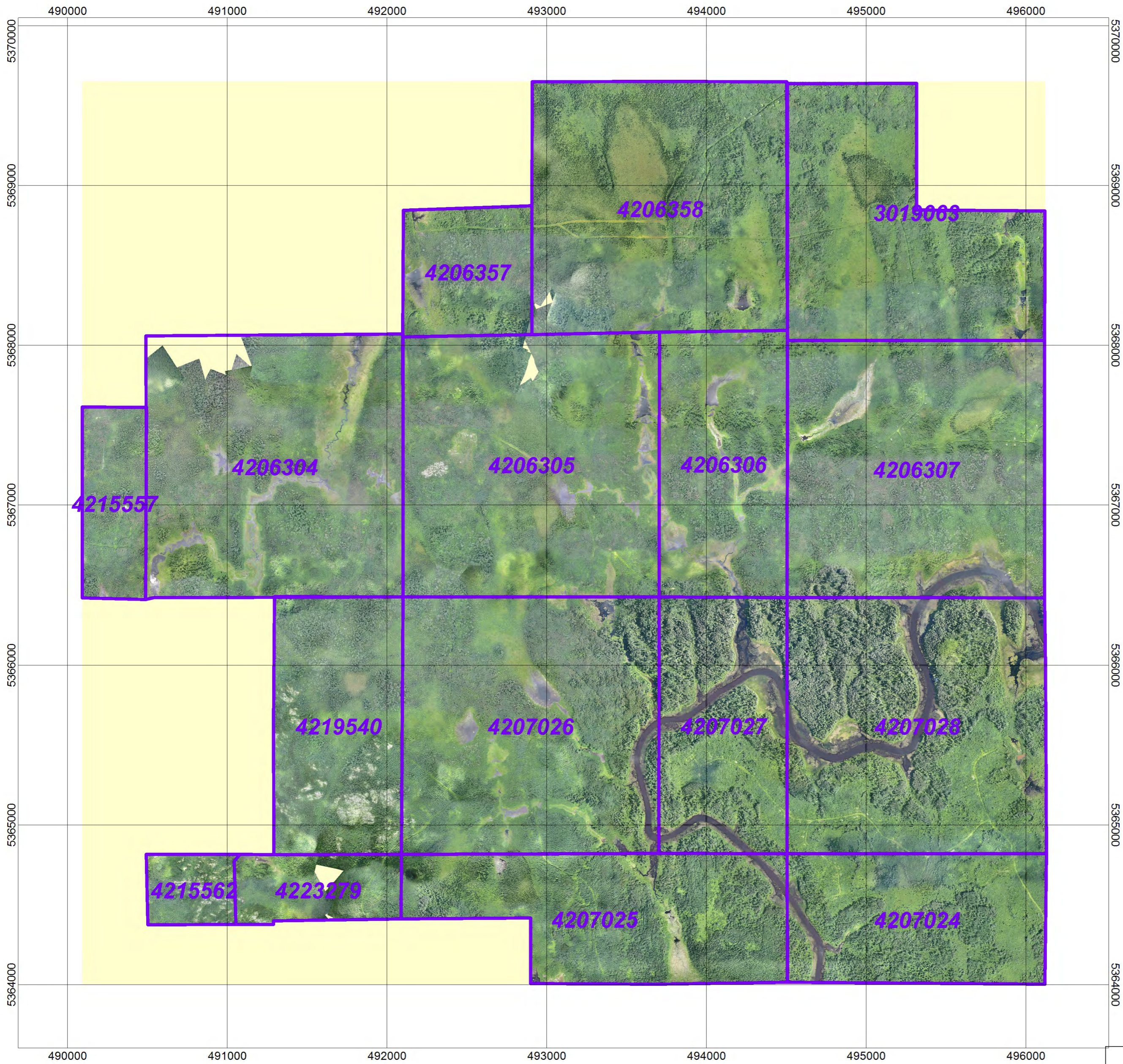


Residual TMI
nT

-  : Property Boundary
-  : Voxi Inversion Area

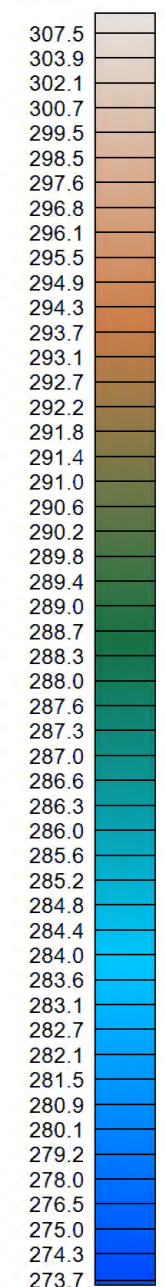
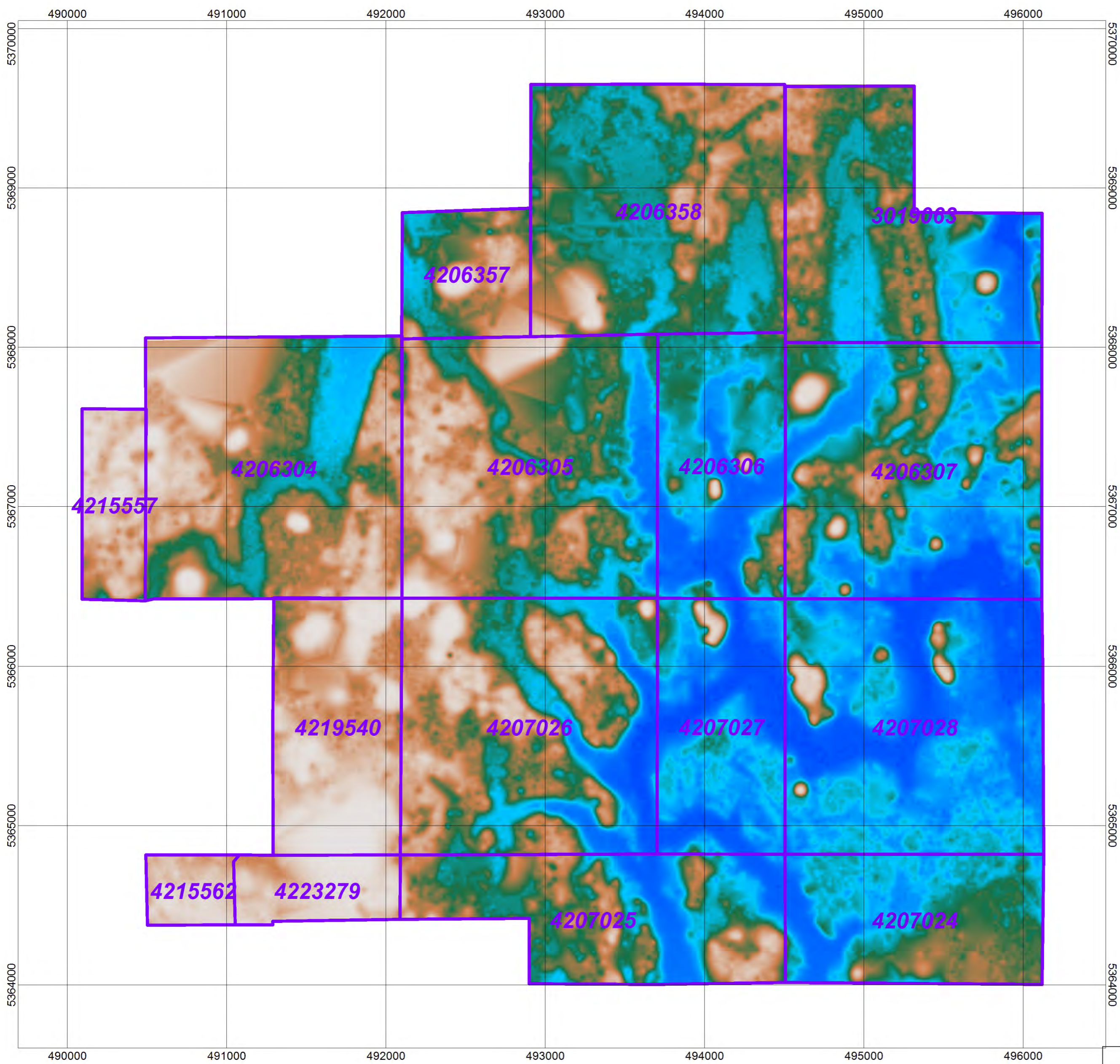


RED PINE EXPLORATION INC
MOUNT LOGANO PROPERTY 2010 AEROQUEST AIRBORNE MAGNETIC SURVEY VOXI MAGNETIC INVERSION AREAS
COLOUR IMAGE OF TOTAL MAGNETIC INTENSITY WITH VERTICAL SHADOW DRAPE

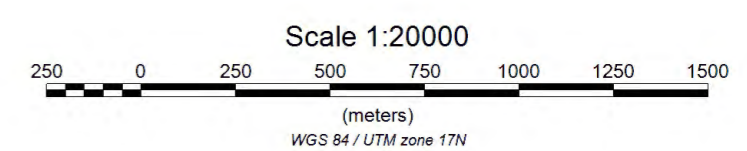
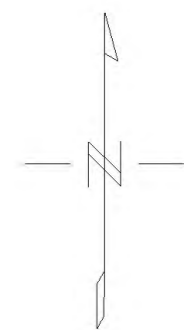


Mt. Logano Property

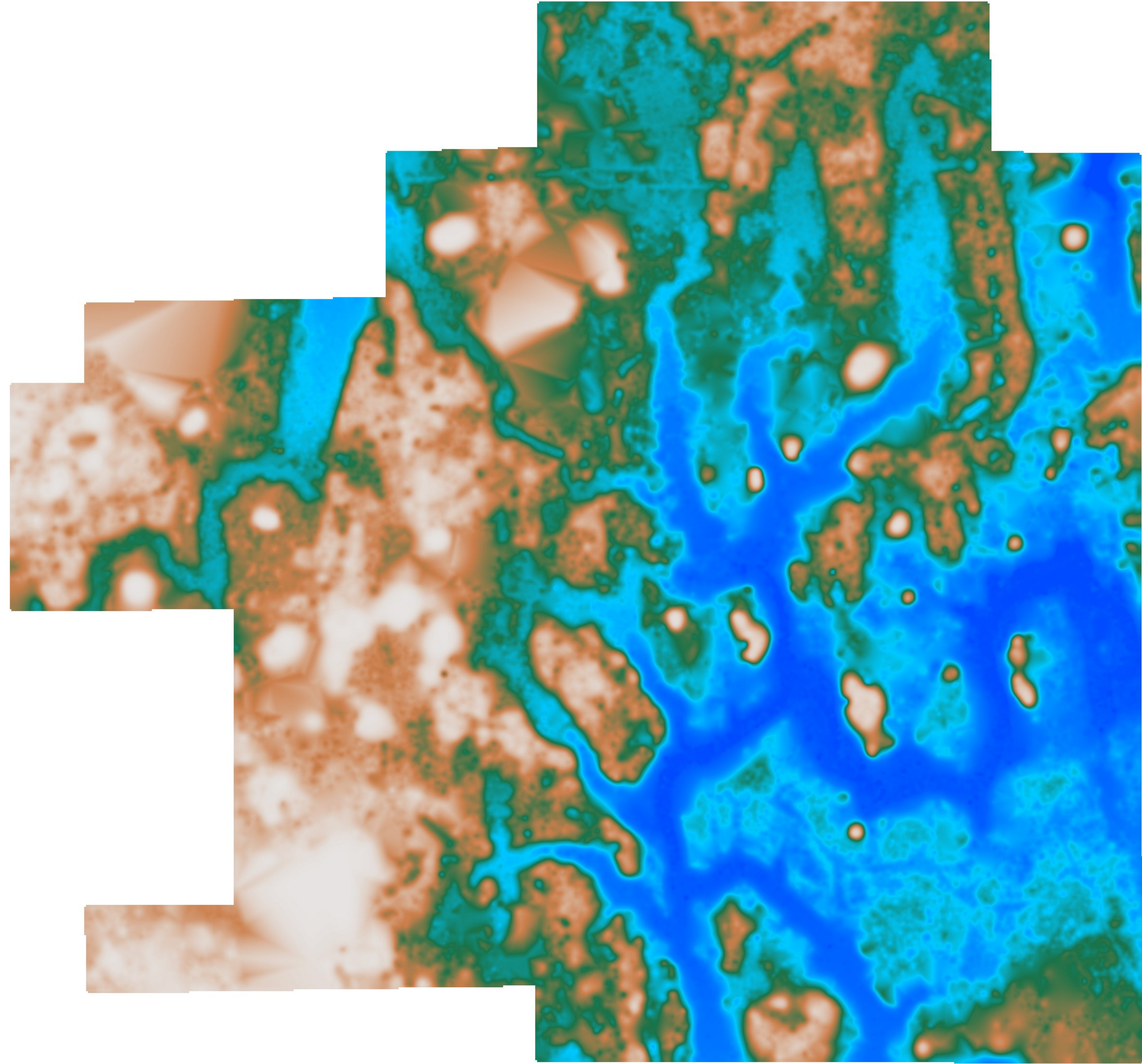
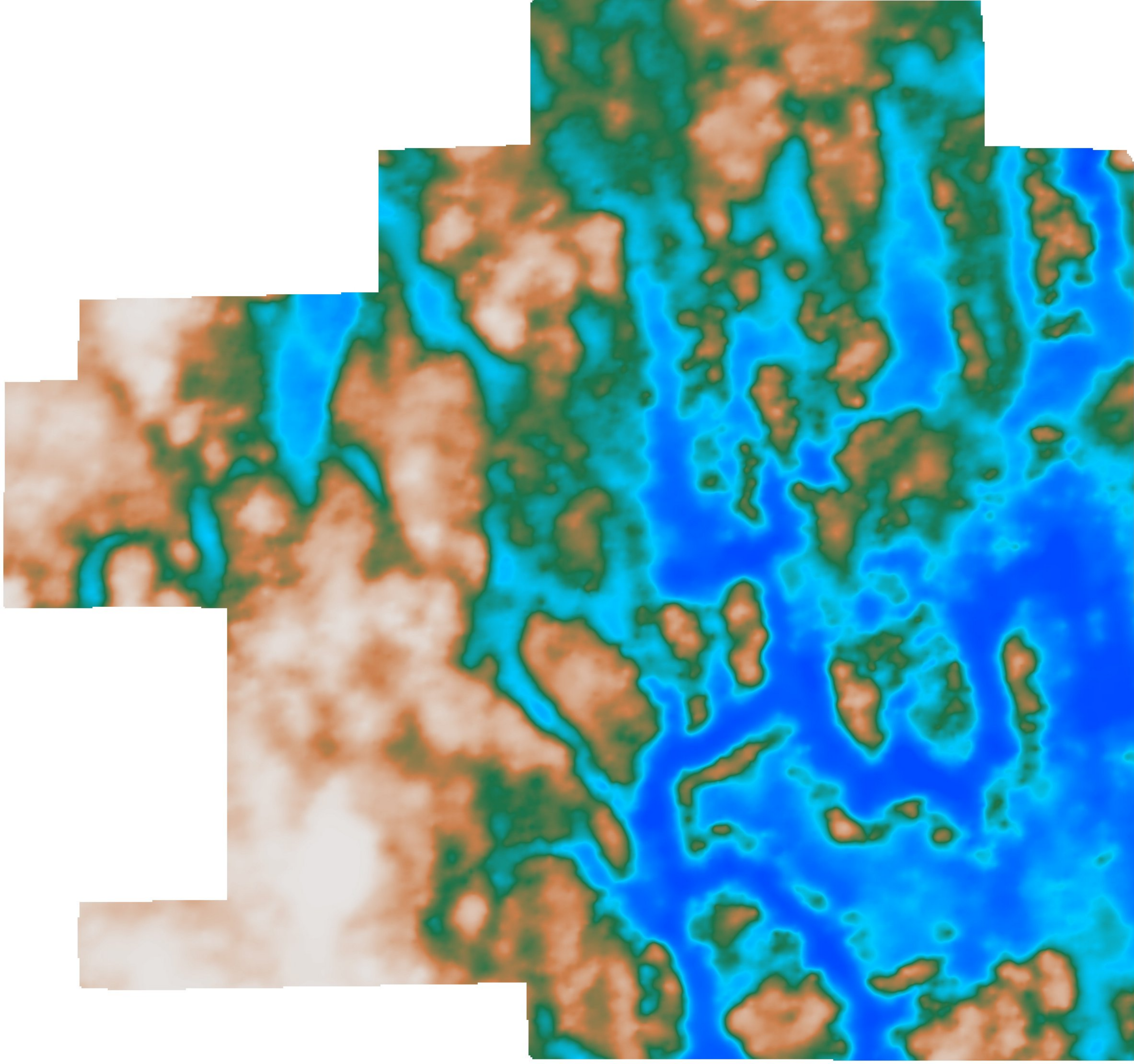
2015 Aerial Photo
July 12th to 16th, 2015

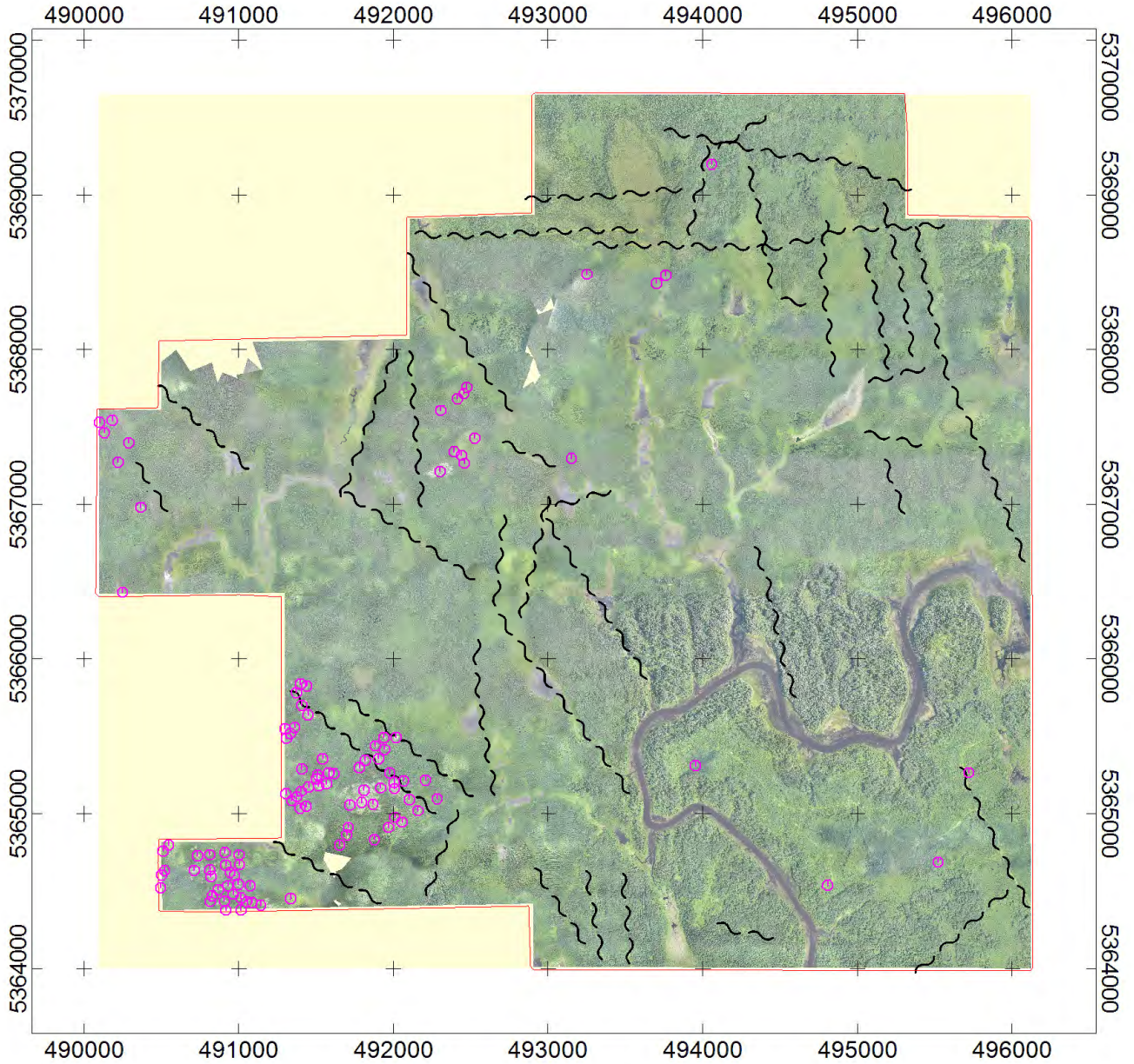


DTM (m)



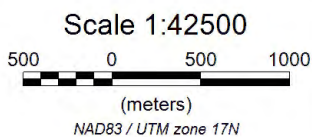
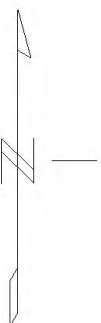
Mt. Logano Property
 2015 DTM
 July 12th to 16th, 2015





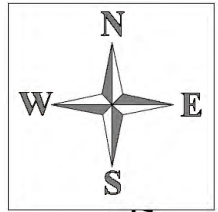
LEGEND

- ~~~~~ : Interpreted Fault from DTM Topography
- ⊙ : Location of possible outcrop
- : Property Boundary



RED PINE EXPLORTION INC

**MOUNT LOGANO PROPERTY
2015 UAV SURVEY
INTERPRETATION MAP**



5,370,000 mN

492,000 mE

493,000 mE

494,000 mE

495,000 mE

496,000 mE

Mt. Logano

5,369,000 mN

5,368,000 mN

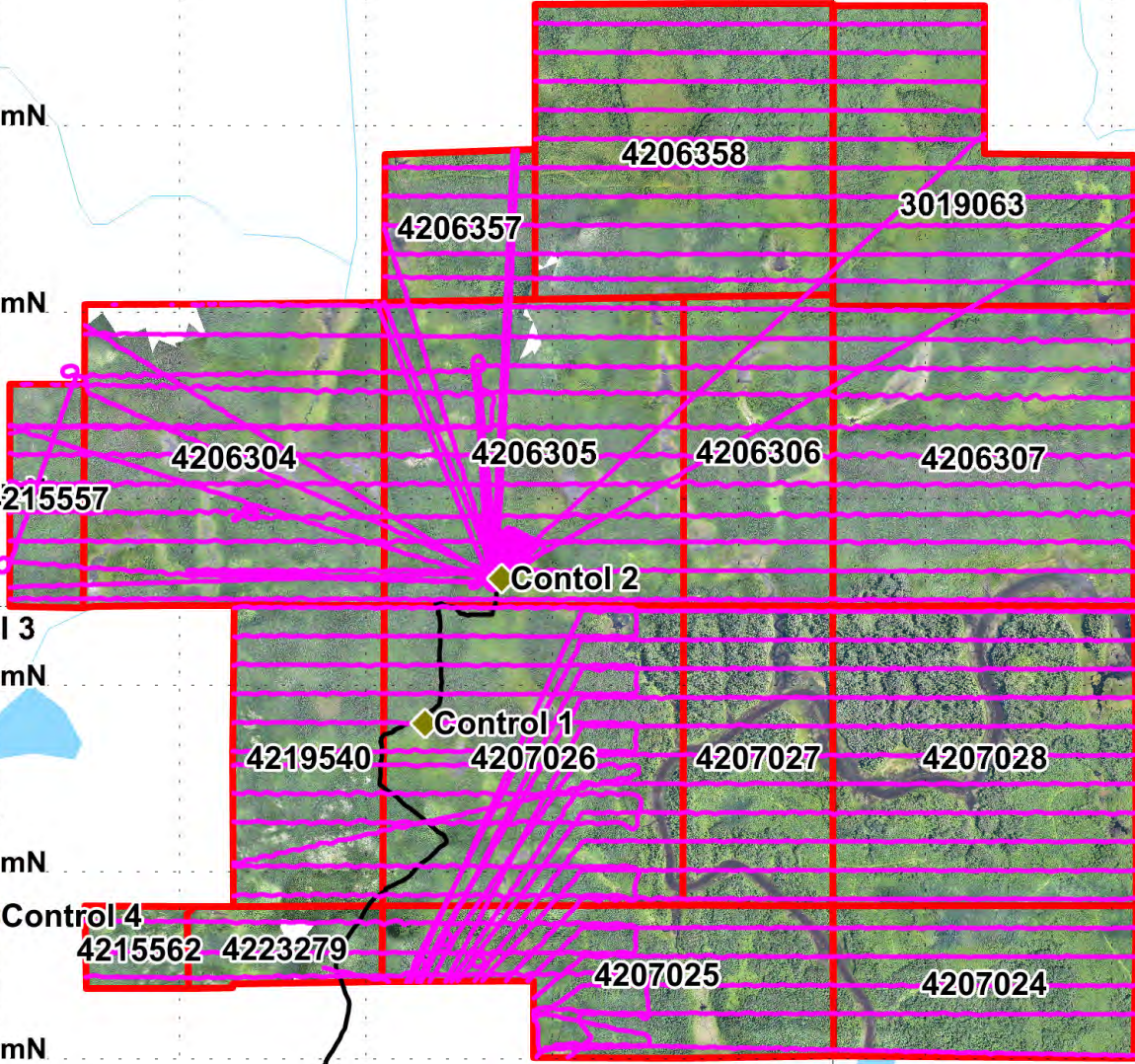
5,367,000 mN

5,366,000 mN

5,365,000 mN

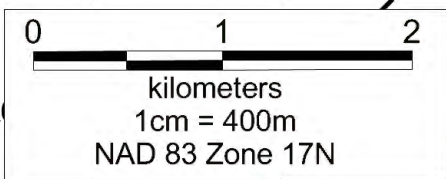
5,364,000 mN

5,363,000 mN

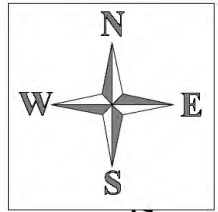


Legend

- ◆ Ground Control Points
- Property Access via Truck/ATV
- ⋯ Township Boundaries
- Rivers/Streams
- Waterbodies
- Unpatented Mining Claims
- UAV Flight Lines within the Mt. Logano Property



5,3



5,370,000 mN

Mt. Logano

5,369,000 mN

5,368,000 mN

5,367,000 mN

5,366,000 mN

5,365,000 mN

5,364,000 mN

5,363,000 mN

5,3

492,000 mE

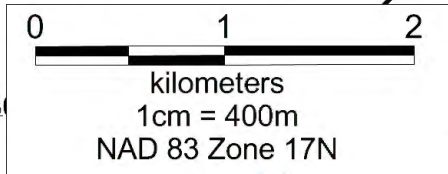
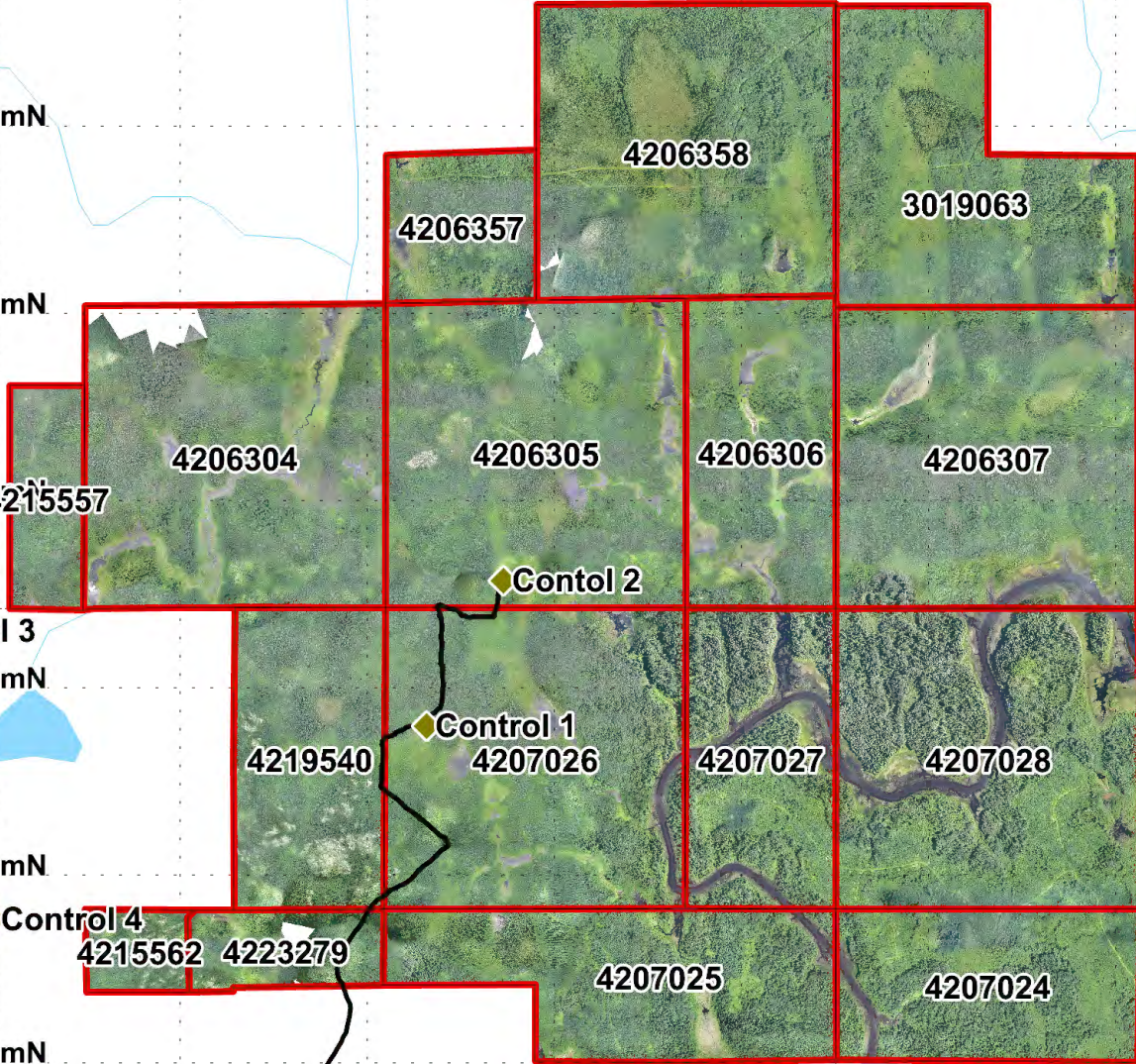
493,000 mE

494,000 mE

495,000 mE

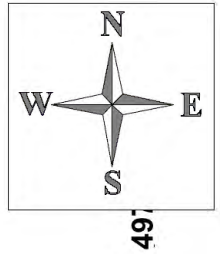
496,000 mE

497



Legend

- ◆ Ground Control Points
- Property Access via Truck/ATV
- ⋯ Township Boundaries
- Rivers/Streams
- Waterbodies
- Unpatented Mining Claims



5,370,000 mN

5,369,000 mN

5,368,000 mN

5,367,000 mN

5,366,000 mN

5,365,000 mN

5,364,000 mN

5,363,000 mN

492,000 mE

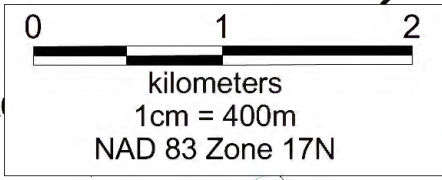
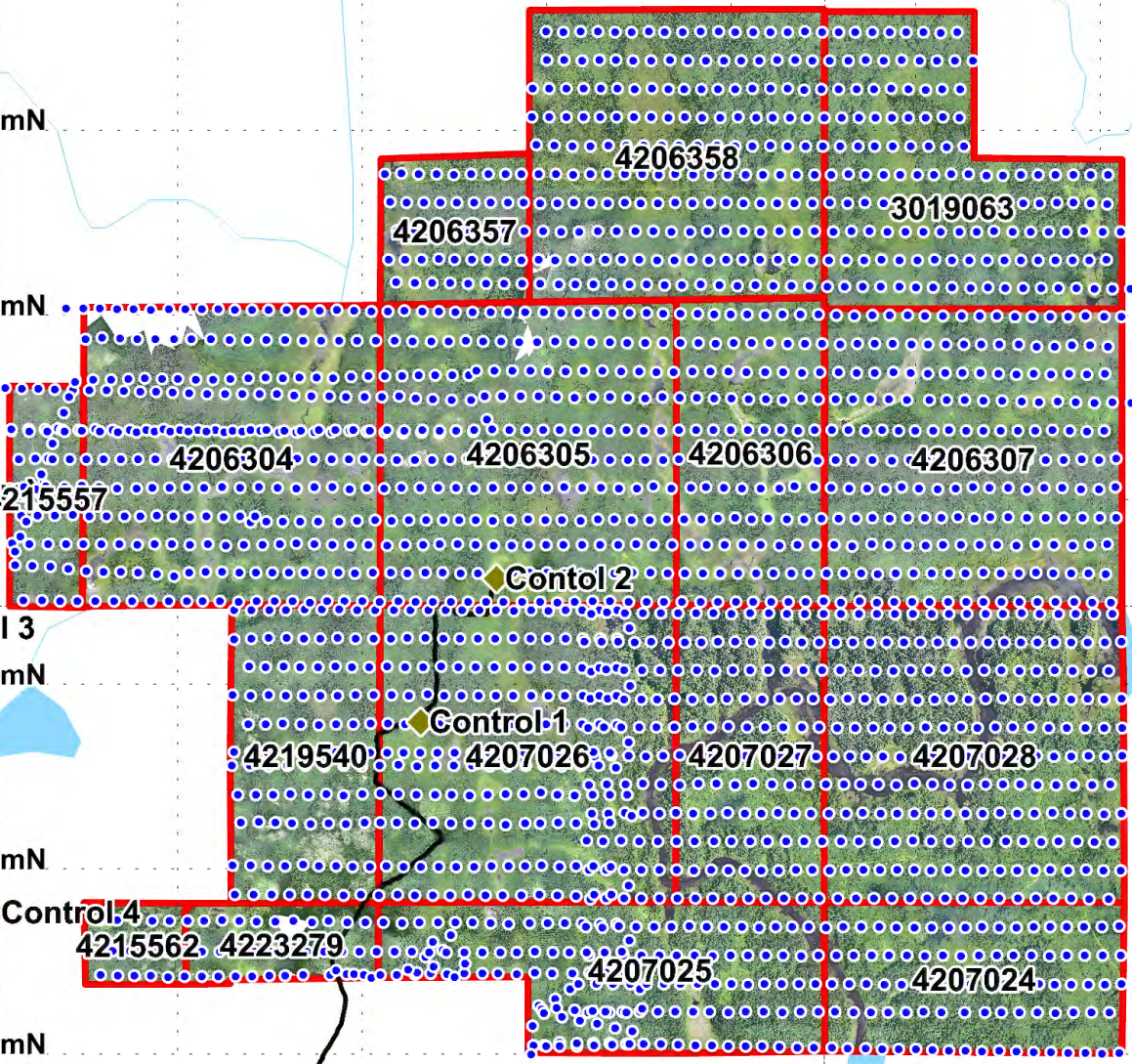
493,000 mE

494,000 mE

495,000 mE

496,000 mE

Mt. Logano

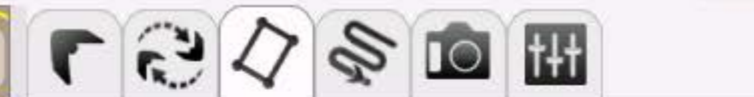


Legend

- ◆ Ground Control Points
- Property Access via Truck/ATV
- - - Township Boundaries
- Rivers/Streams
- Waterbodies
- Unpatented Mining Claims
- UAV Photo Locations within the Mt. Logano Property



WARNING
START MISSION
RESUME MISSION
GO TO START WPT
GO TO HOME WPT
GO LAND
HOLD POSITION
LAND NOW
Click 3x
ABORT LANDING
ROLL
FAST CLIMB
FAST DESCENT



Starting waypoint: 1 After previous
 Wind estimate: 180° 0.0 m/s
 Use current wind estimate
 Max flight time: 32 min

Settings
 Upload

Resulting flight characteristics

Number of flights:	18
Flight time:	18x 00:31:55
Total flight distance:	352.9 km
Total ground coverage:	2972.7 ha
Number of flight lines:	38+0
Flight lines spacing:	154.2 m
Mean flight lines altitude above elevation data:	152 m (4.3 cm/px)
Max flight lines altitude above elevation data:	169 m (4.8 cm/px)
Min flight lines altitude above elevation data:	118 m (3.3 cm/px)
Distance between photos:	81.2 m
Single image coverage:	440.6x324.9 m
Number of waypoints:	94

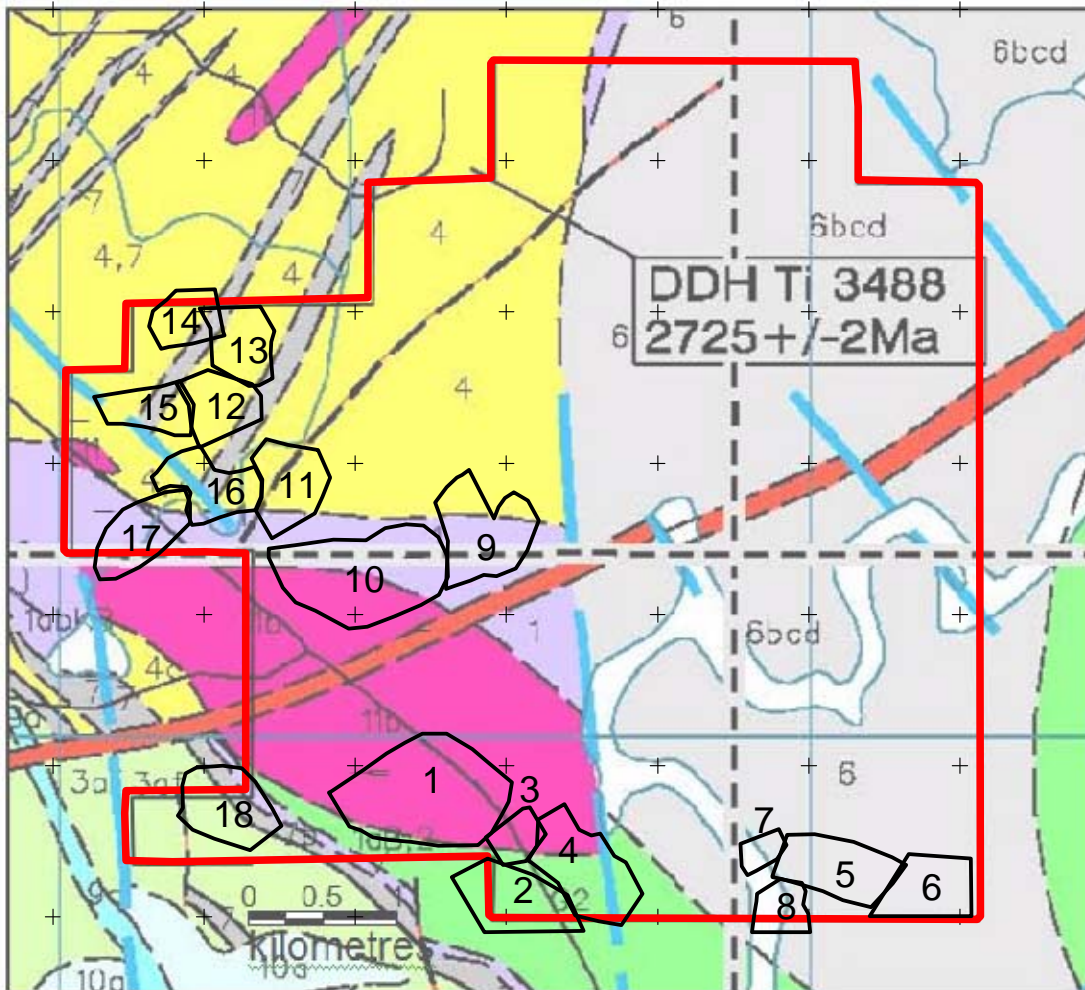
Settings
 Upload

Simulator
 [Pause] [Play] [Next] [Location] [Home] [Battery]
 Wind: 0.1 m/s 286°

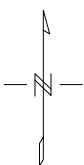
489000 490000 491000 492000 493000 494000 495000 496000 497000

5370000
5369000
5368000
5367000
5366000
5365000
5364000

5370000
5369000
5368000
5367000
5366000
5365000
5364000



489000 490000 491000 492000 493000 494000 495000 496000 497000



: Property Boundary



: Voxi Inversion Area

Scale 1:50000
 500 0 500 1000
 (meters)
 NAD83 / UTM zone 17N

RED PINE EXPLORATION INC

**MOUNT LOGANO PROPERTY
 GEOLOGY WITH
 VOXI MAGNETIC INVERSION AREAS**

