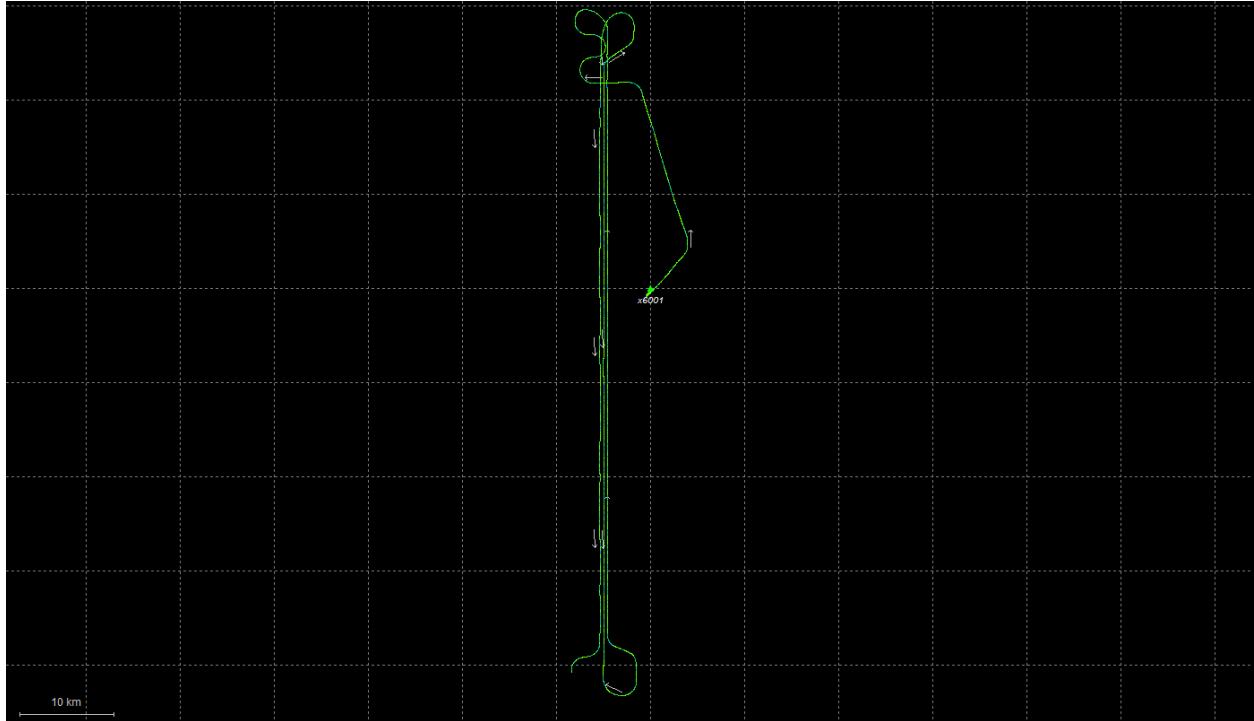


Appendix C: GPS and IMU Processing Reports for Each Mission

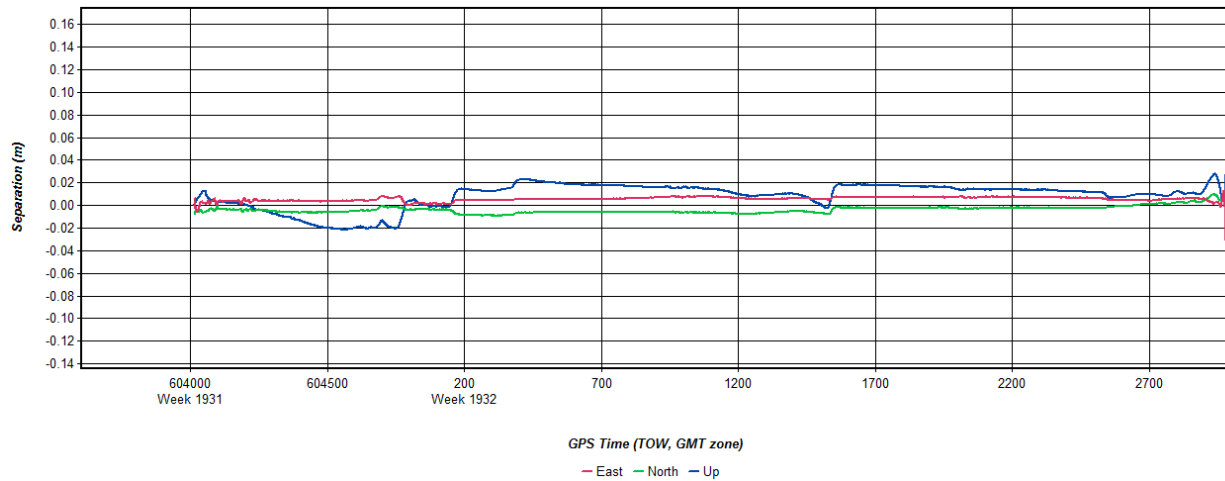
Program:	Inertial Explorer
Version:	8.60.6129

Mission 2017-01-14 A

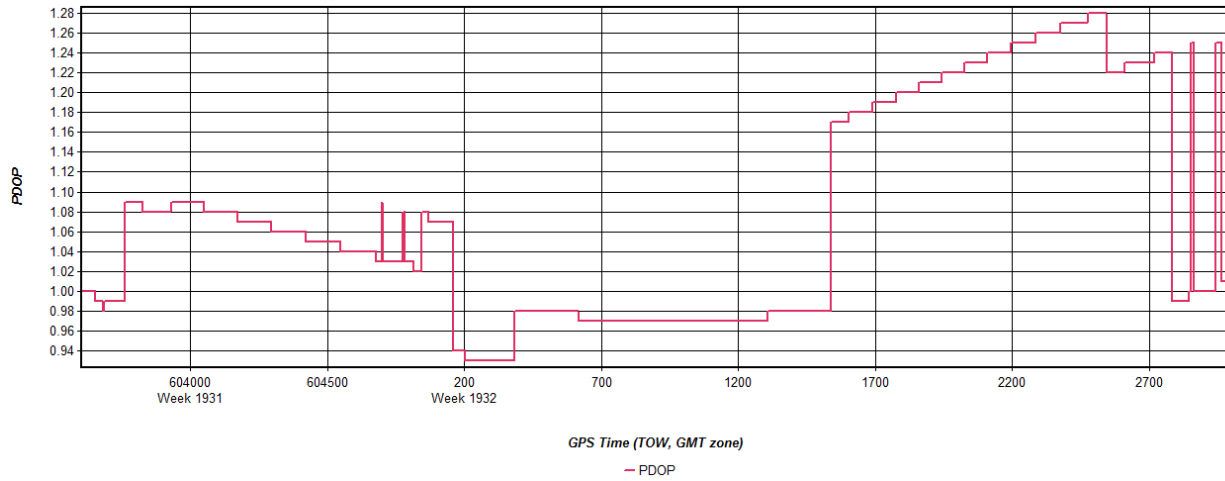
20170114_233722 [Smoothed TC Combined] - Smoothed TC Combined – Map



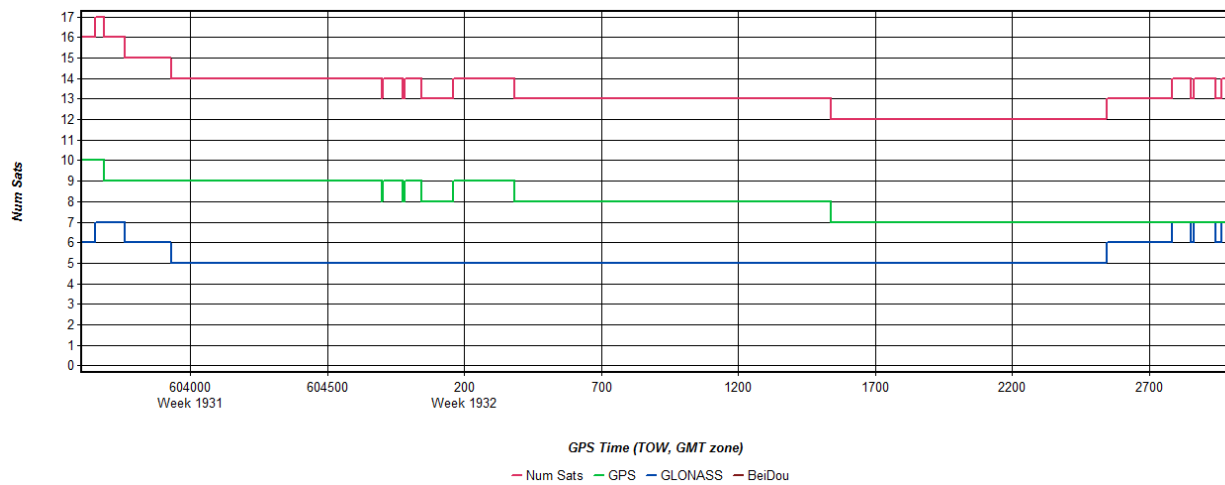
20170114_233722 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



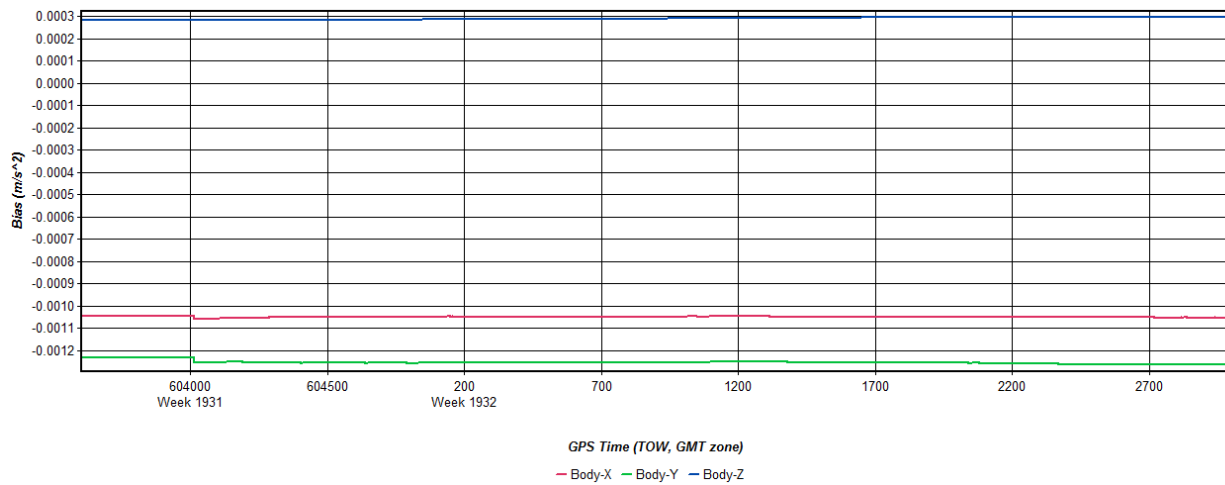
20170114_233722 [Smoothed TC Combined] - PDOP Plot



20170114_233722 [Smoothed TC Combined] - Number of Satellites Line Plot

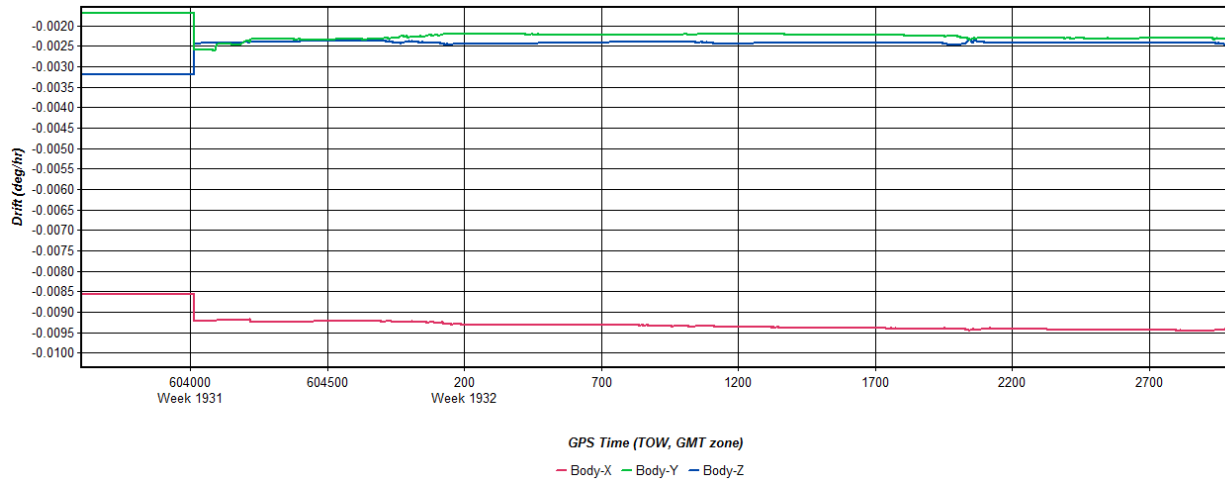


20170114_233722 [Smoothed TC Combined] - Accelerometer Bias Plot





20170114_233722 [Smoothed TC Combined] - Gyro Drift Plot



Processing Summary Information

Project:

N:\Production\LIDAR_Projects\17004_Suwannee_River_FL_FY17\Flight_Raw\20170114_233722\Gnssmu\20170114_233722.cfg

Solution Type: Combined

Number of Epochs:

Total in GPB file: 8403
 No processed position: 2413
 Missing Fwd or Rev: 29
 With bad C/A code: 0
 With bad L1 Phase: 0

Quality Number Percentages:

Q 1: 59.7 %
 Q 2: 36.6 %
 Q 3: 3.7 %
 Q 4: 0.0 %
 Q 5: 0.0 %
 Q 6: 0.0 %

Measurement RMS Values:

L1 Phase: 0.0146 (m)
 C/A Code: 0.44 (m)
 L1 Doppler: 0.024 (m/s)

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %
 0.10 - 0.30 m: 0.0 %
 0.30 - 1.00 m: 0.0 %
 1.00 - 5.00 m: 0.0 %
 5.00 m + over: 0.0 %

Fwd/Rev Separation RMS Values:

East: 0.008 (m)
 North: 0.007 (m)
 Height: 0.011 (m)

Percentages of epochs with DD_DOP over 10.00:

DOP over Tol: 0.0 %

Fwd/Rev Sep. RMS for dual FWD/REV fixes (5954 occurrences):

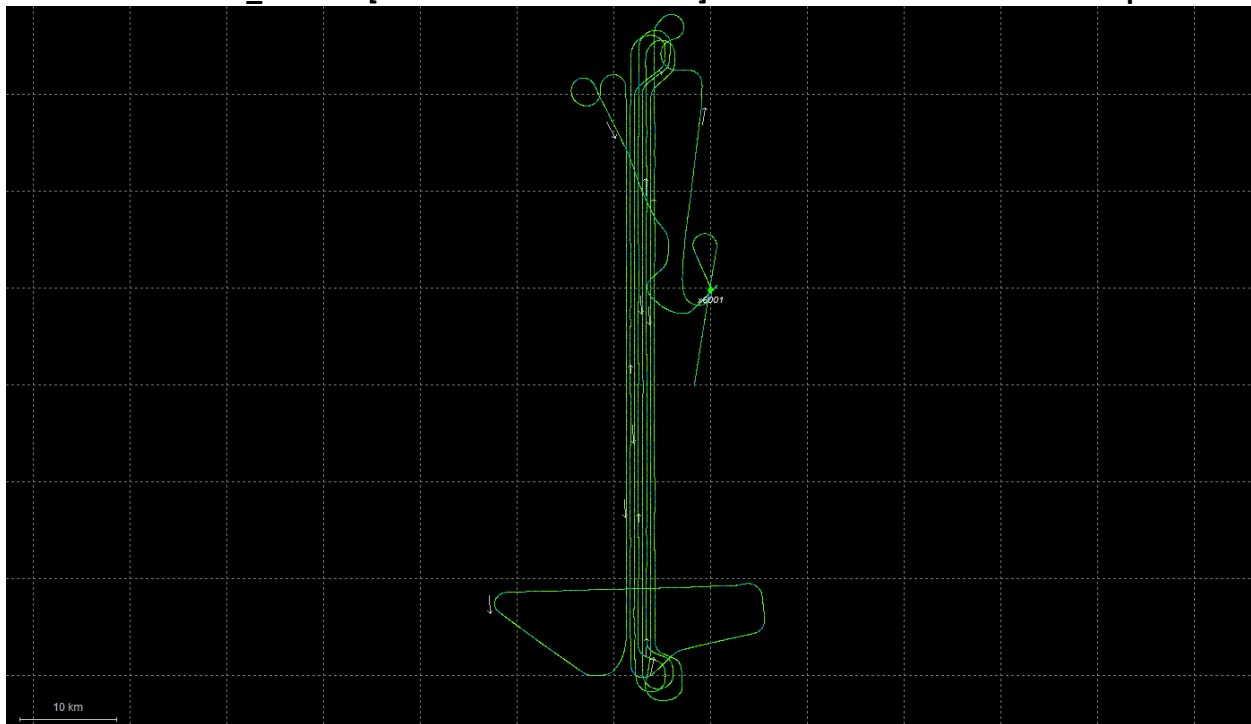
East: 0.008 (m)
 North: 0.007 (m)
 Height: 0.011 (m)

Baseline Distances:

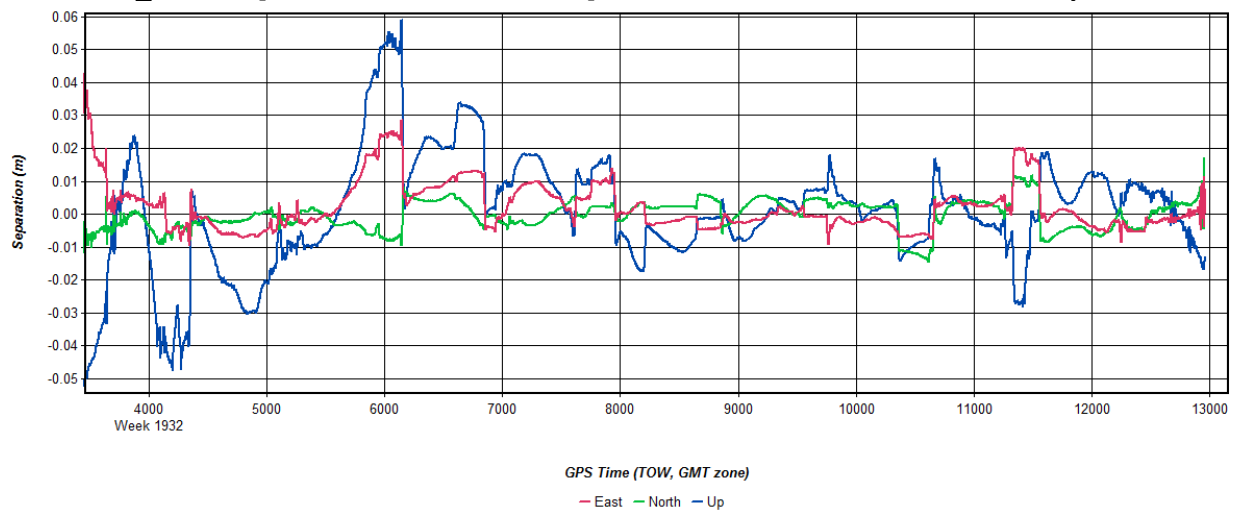
Maximum: 43.032 (km)
 Minimum: 4.524 (km)
 Average: 20.426 (km)
 First Epoch: 27.266 (km)
 Last Epoch: 41.323 (km)

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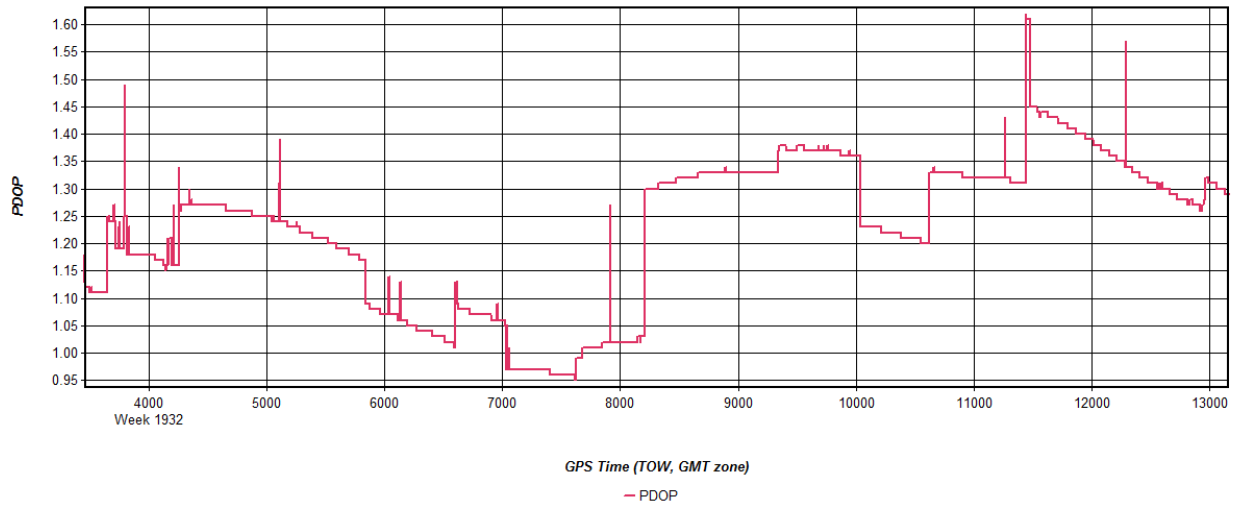
20170115_005542 [Smoothed TC Combined] - Smoothed TC Combined - Map



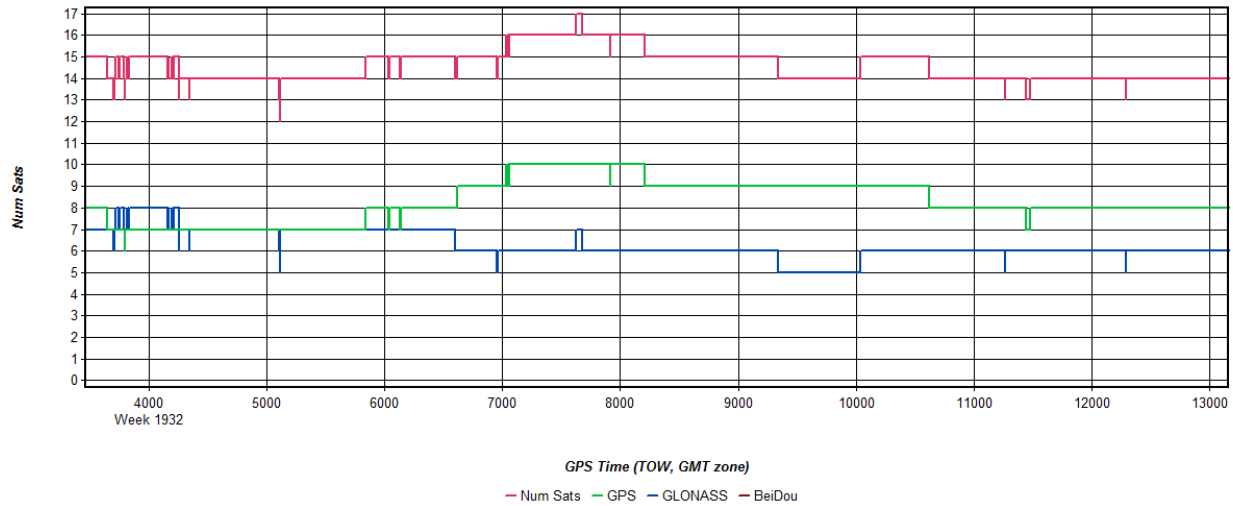
20170115_005542 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



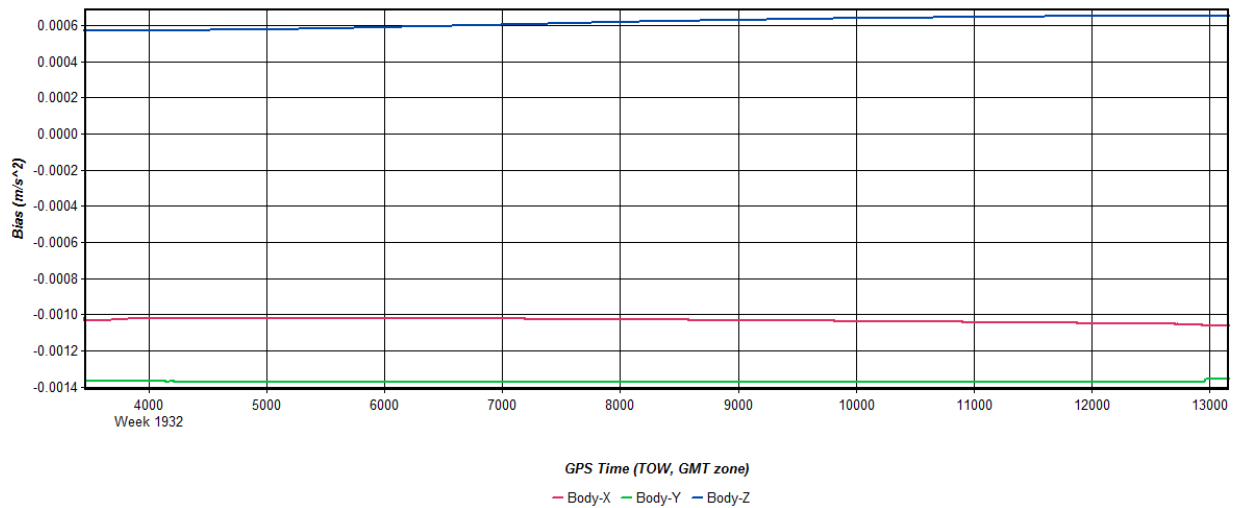
20170115_005542 [Smoothed TC Combined] - PDOP Plot



20170115_005542 [Smoothed TC Combined] - Number of Satellites Line Plot

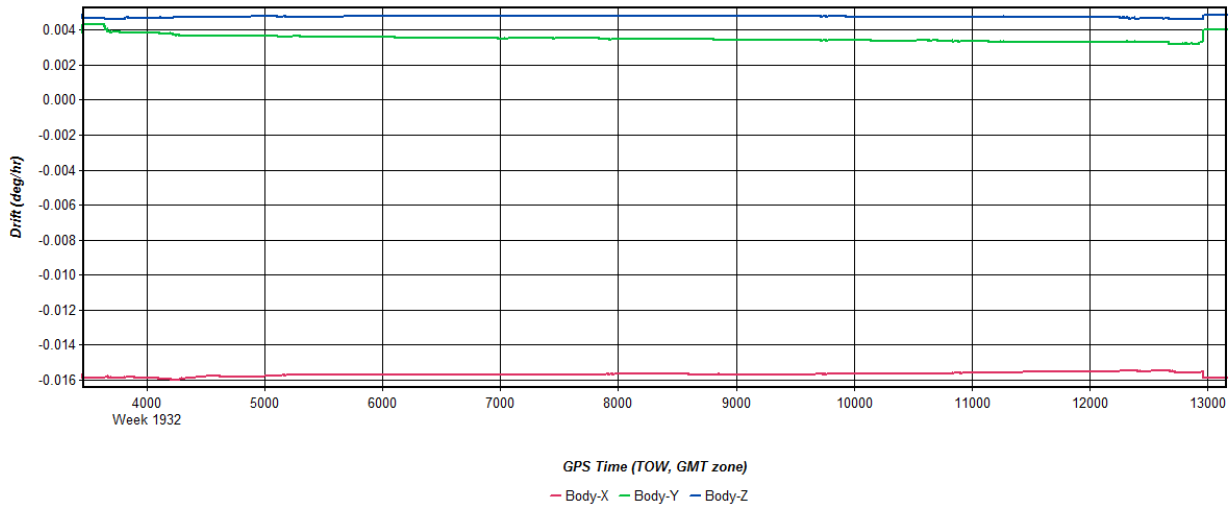


20170115_005542 [Smoothed TC Combined] - Accelerometer Bias Plot





20170115_005542 [Smoothed TC Combined] - Gyro Drift Plot



Processing Summary Information

Project:

N:\Production\LiDAR_Projects\17004_Suwannee_River_FL_FY17\Flight_Raw\20170115_005542\Gnss\mu\20170115_005542.cfg

Solution Type: Combined

Number of Epochs:

Total in GPB file: 19424
 No processed position: 5
 Missing Fwd or Rev: 408
 With bad C/A code: 0
 With bad L1 Phase: 0

Quality Number Percentages:

Q 1: 56.5 %
 Q 2: 38.1 %
 Q 3: 5.4 %
 Q 4: 0.0 %
 Q 5: 0.0 %
 Q 6: 0.0 %

Measurement RMS Values:

L1 Phase: 0.0208 (m)
 C/A Code: 0.32 (m)
 L1 Doppler: 0.031 (m/s)

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %
 0.10 - 0.30 m: 0.0 %
 0.30 - 1.00 m: 0.0 %
 1.00 - 5.00 m: 0.0 %
 5.00 m + over: 0.0 %

Fwd/Rev Separation RMS Values:

East: 0.008 (m)
 North: 0.005 (m)
 Height: 0.017 (m)

Percentages of epochs with DD_DOP over 10.00:

DOP over Tol: 0.0 %

Fwd/Rev Sep. RMS for dual FWD/REV fixes (19011 occurrences):

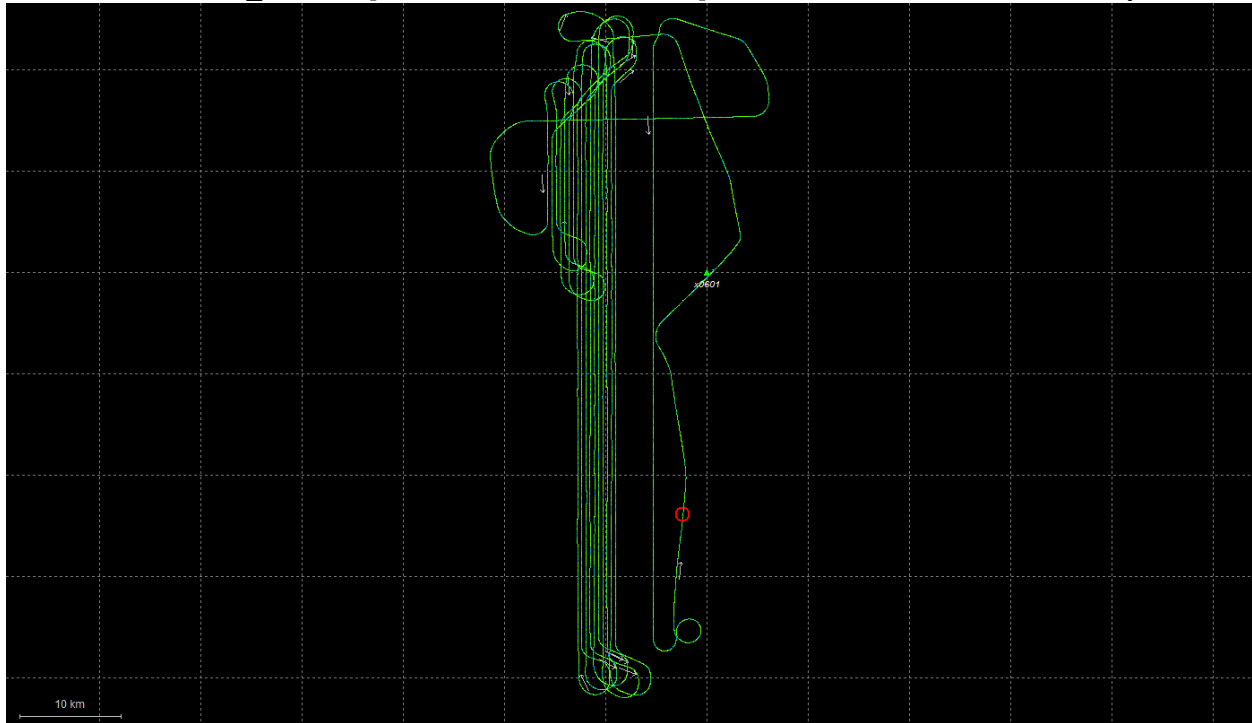
East: 0.008 (m)
 North: 0.005 (m)
 Height: 0.017 (m)

Baseline Distances:

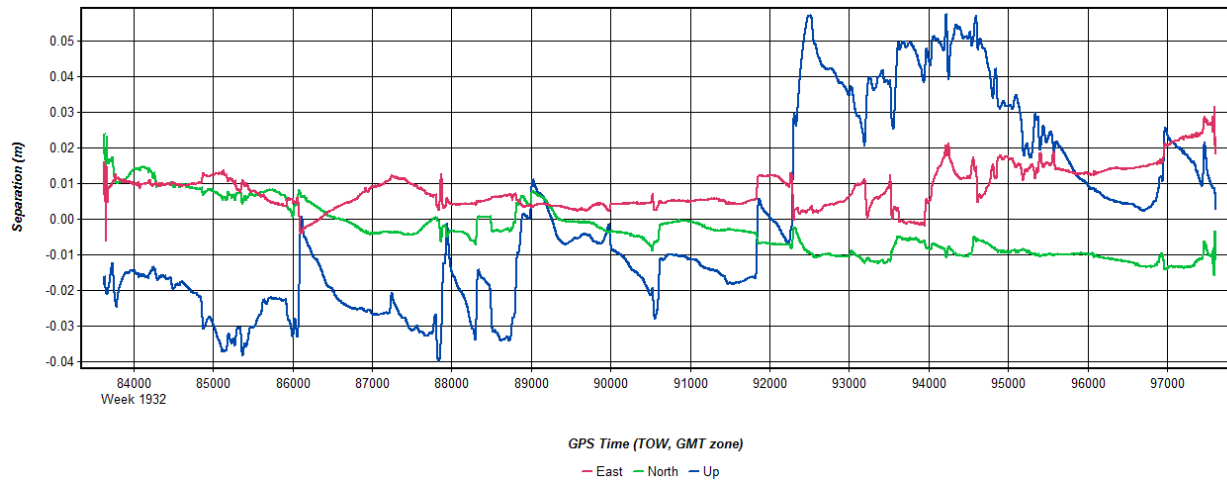
Maximum: 42.453 (km)
 Minimum: 0.049 (km)
 Average: 19.600 (km)
 First Epoch: 10.077 (km)
 Last Epoch: 0.639 (km)

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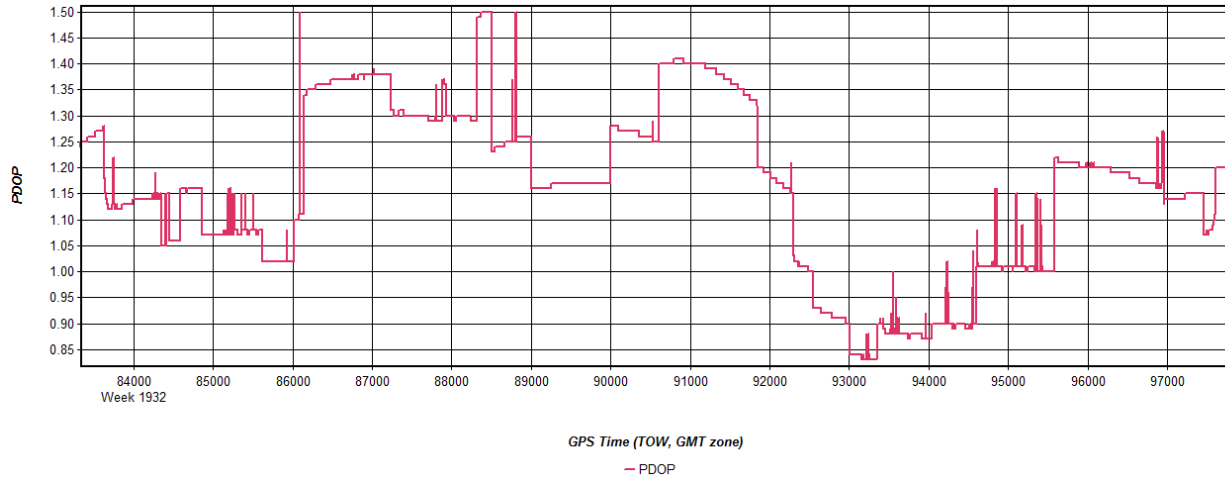
20170115_230623 [Smoothed TC Combined] - Smoothed TC Combined – Map



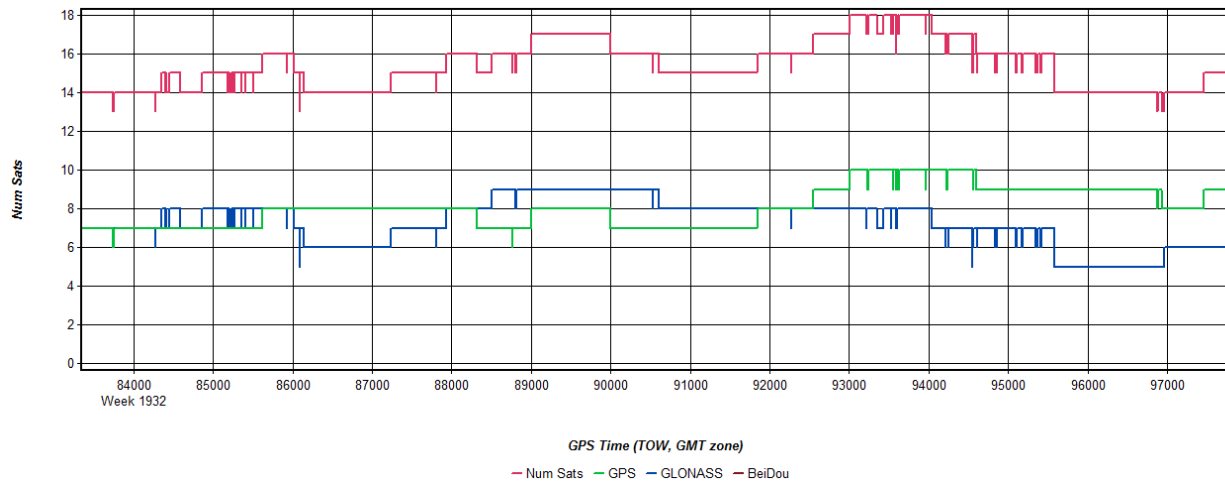
20170115_230623 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



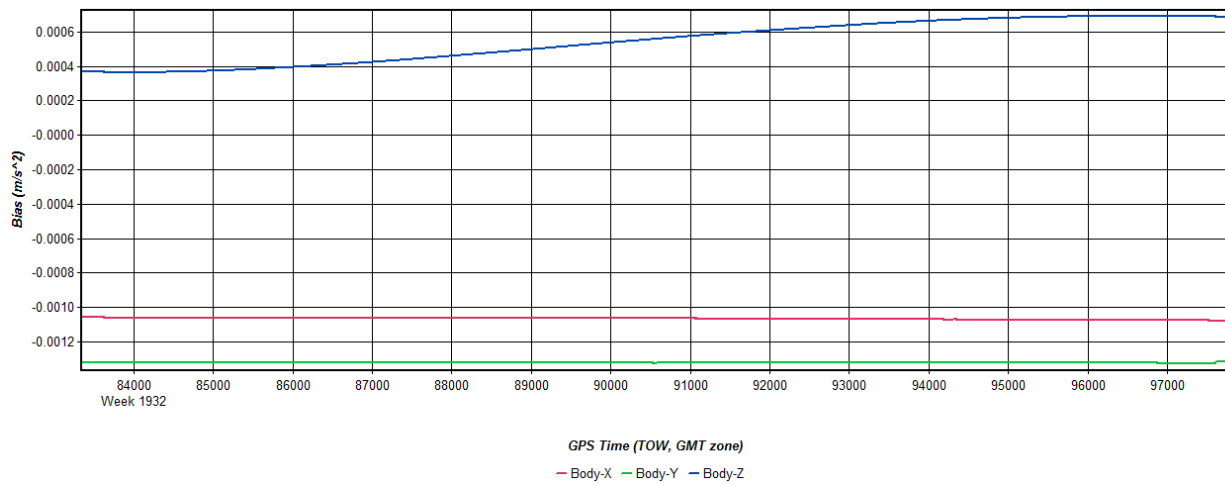
20170115_230623 [Smoothed TC Combined] - PDOP Plot



20170115_230623 [Smoothed TC Combined] - Number of Satellites Line Plot

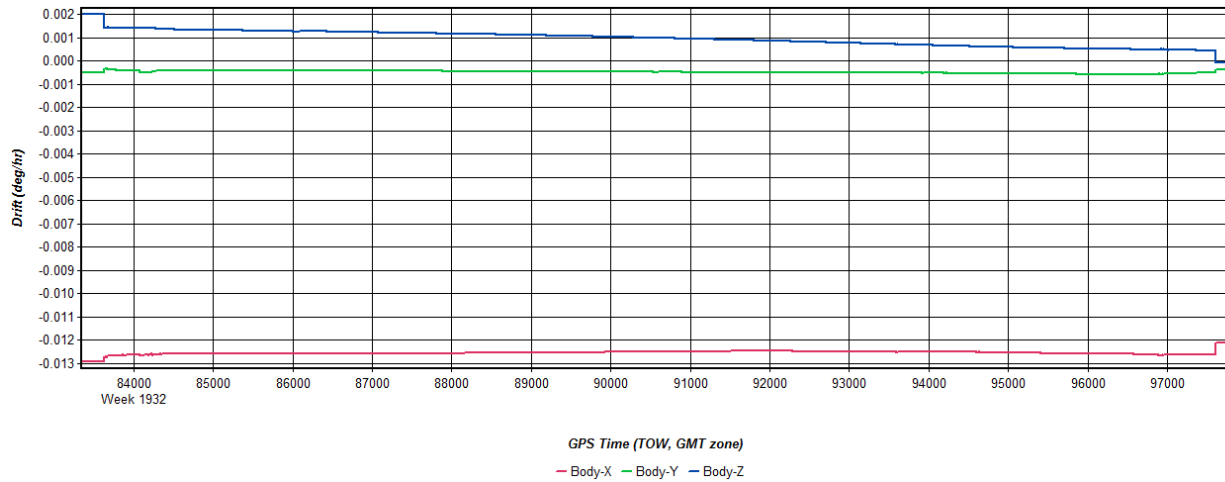


20170115_230623 [Smoothed TC Combined] - Accelerometer Bias Plot





20170115_230623 [Smoothed TC Combined] - Gyro Drift Plot



Processing Summary Information

Project:

N:\Production\LiDAR_Projects\17004_Suwannee_River_FL_FY17\Flight_Raw\20170115_230623\GnssI
mu\20170115_230623.cfg

Solution Type: Combined

Number of Epochs:

Total in GPB file: 28936
No processed position: 7
Missing Fwd or Rev: 970
With bad C/A code: 0
With bad L1 Phase: 0

Quality Number Percentages:

Q 1: 59.1 %
Q 2: 36.6 %
Q 3: 4.2 %
Q 4: 0.0 %
Q 5: 0.0 %
Q 6: 0.0 %

Measurement RMS Values:

L1 Phase: 0.0185 (m)
C/A Code: 0.37 (m)
L1 Doppler: 0.032 (m/s)

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %
0.10 - 0.30 m: 0.0 %
0.30 - 1.00 m: 0.0 %
1.00 - 5.00 m: 0.0 %
5.00 m + over: 0.0 %

Fwd/Rev Separation RMS Values:

East: 0.010 (m)
North: 0.008 (m)
Height: 0.026 (m)

Percentages of epochs with DD_DOP over 10.00:

DOP over Tol: 0.0 %

Fwd/Rev Sep. RMS for dual FWD/REV fixes (27959 occurrences):

East: 0.010 (m)
North: 0.008 (m)
Height: 0.026 (m)

Baseline Distances:

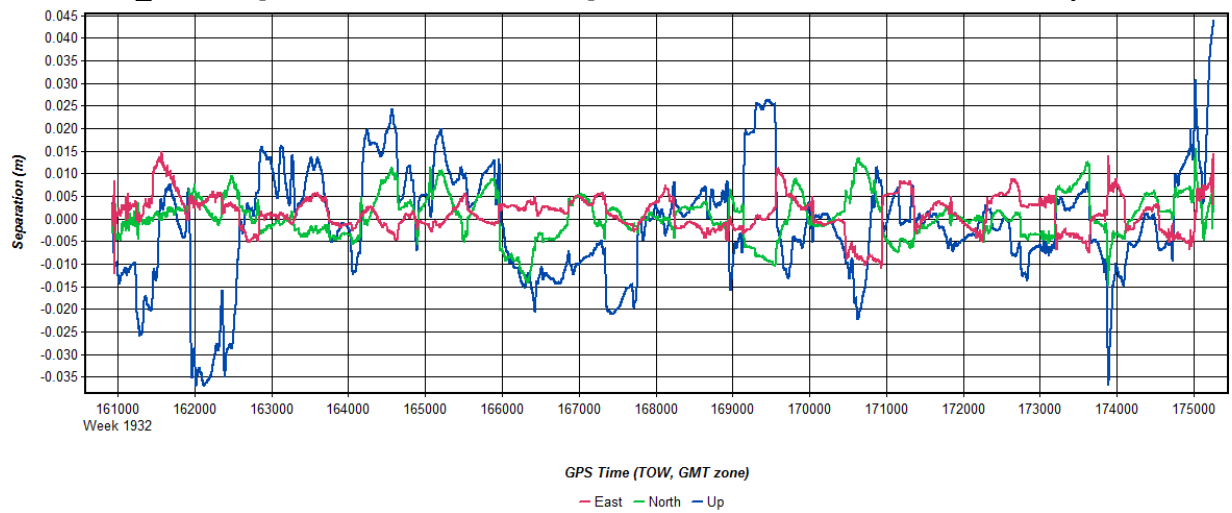
Maximum: 42.996 (km)
Minimum: 0.303 (km)
Average: 19.883 (km)
First Epoch: 0.860 (km)
Last Epoch: 0.619 (km)

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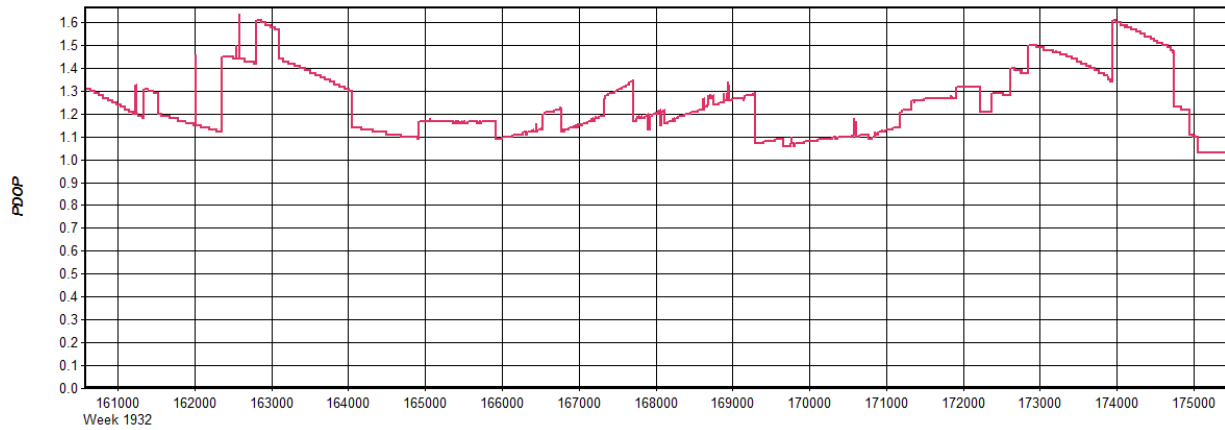
20170116_203345 [Smoothed TC Combined] - Smoothed TC Combined – Map



20170116_203345 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



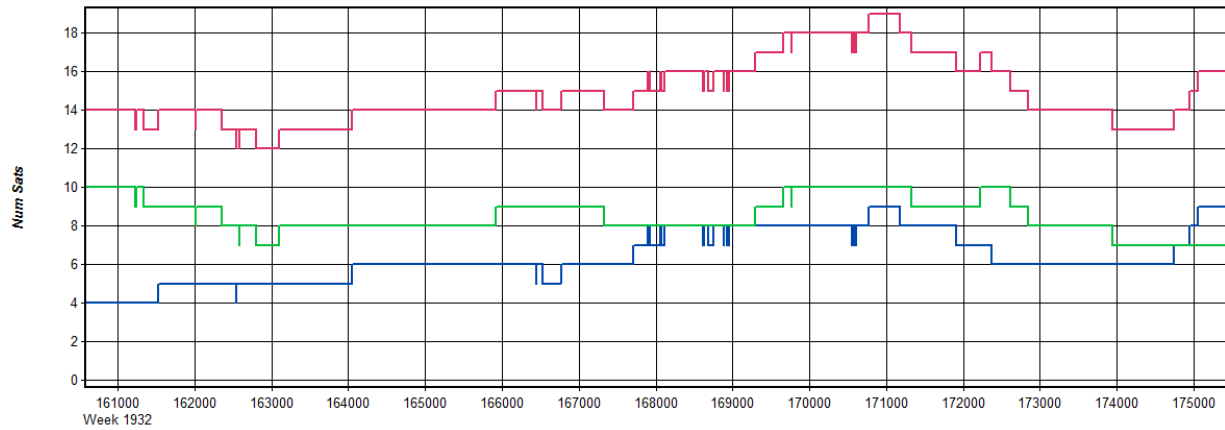
20170116_203345 [Smoothed TC Combined] - PDOP Plot



GPS Time (TOW, GMT zone)

— PDOP

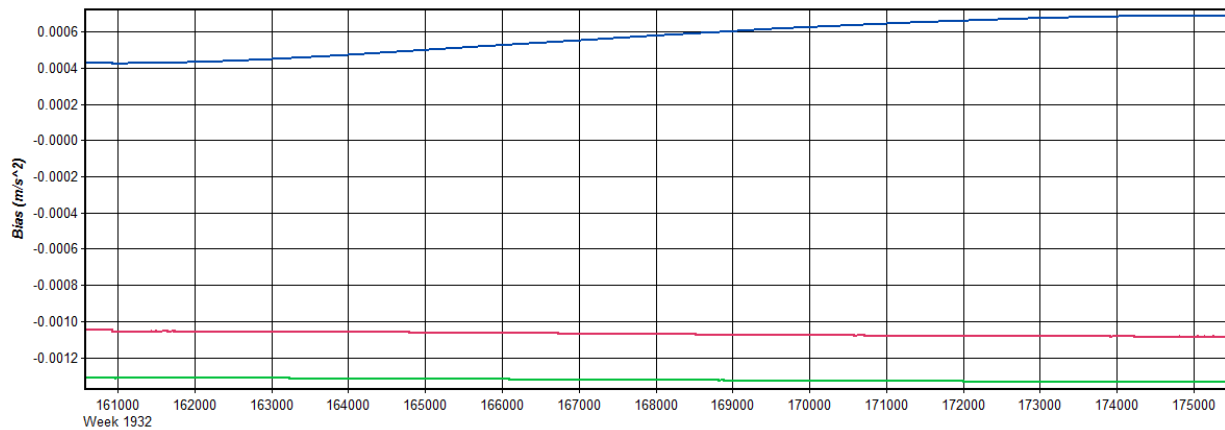
20170116_203345 [Smoothed TC Combined] - Number of Satellites Line Plot



GPS Time (TOW, GMT zone)

— Num Sats — GPS — GLONASS — BeiDou

20170116_203345 [Smoothed TC Combined] - Accelerometer Bias Plot

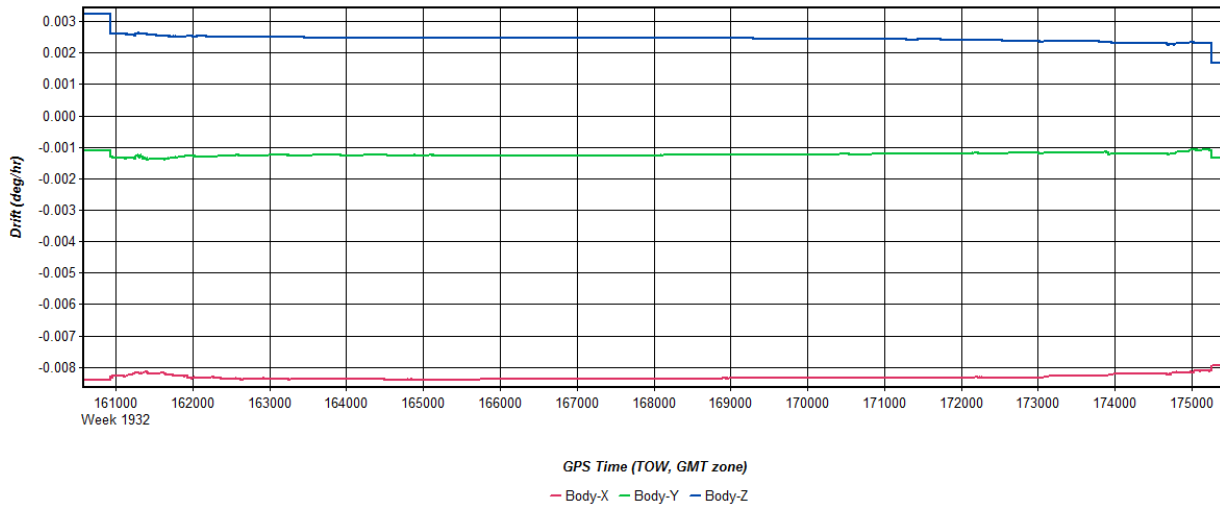


GPS Time (TOW, GMT zone)

— Body-X — Body-Y — Body-Z



20170116_203345 [Smoothed TC Combined] - Gyro Drift Plot



Processing Summary Information

Project:

N:\Production\LiDAR_Projects\17004_Suwannee_River_FL_FY17\Flight_Raw\20170116_203345\Gnss\mu\20170116_203345.cfg

Solution Type: Combined

Number of Epochs:

Total in GPB file: 29801
 No processed position: 6
 Missing Fwd or Rev: 1134
 With bad C/A code: 0
 With bad L1 Phase: 0

Quality Number Percentages:

Q 1: 59.1 %
 Q 2: 36.3 %
 Q 3: 4.6 %
 Q 4: 0.0 %
 Q 5: 0.0 %
 Q 6: 0.0 %

Measurement RMS Values:

L1 Phase: 0.0151 (m)
 C/A Code: 0.34 (m)
 L1 Doppler: 0.031 (m/s)

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %
 0.10 - 0.30 m: 0.0 %
 0.30 - 1.00 m: 0.0 %
 1.00 - 5.00 m: 0.0 %
 5.00 m + over: 0.0 %

Fwd/Rev Separation RMS Values:

East: 0.004 (m)
 North: 0.005 (m)
 Height: 0.012 (m)

Percentages of epochs with DD_DOP over 10.00:

DOP over Tol: 0.0 %

Fwd/Rev Sep. RMS for dual FWD/REV fixes (28661 occurrences):

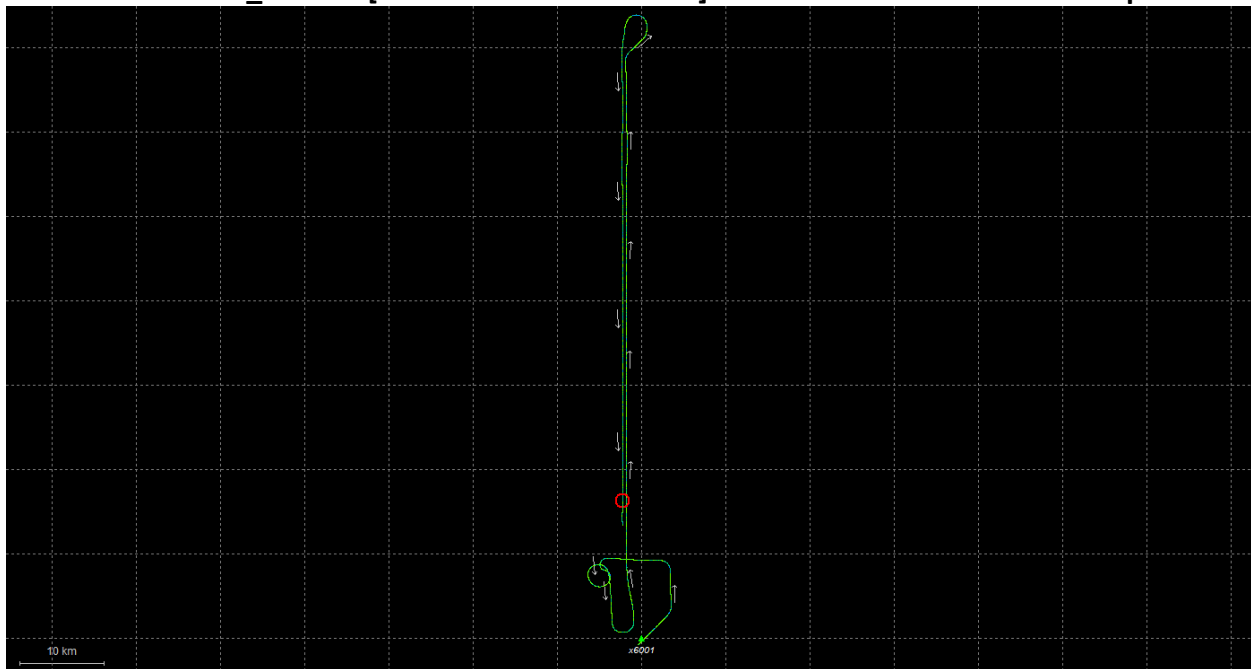
East: 0.004 (m)
 North: 0.005 (m)
 Height: 0.012 (m)

Baseline Distances:

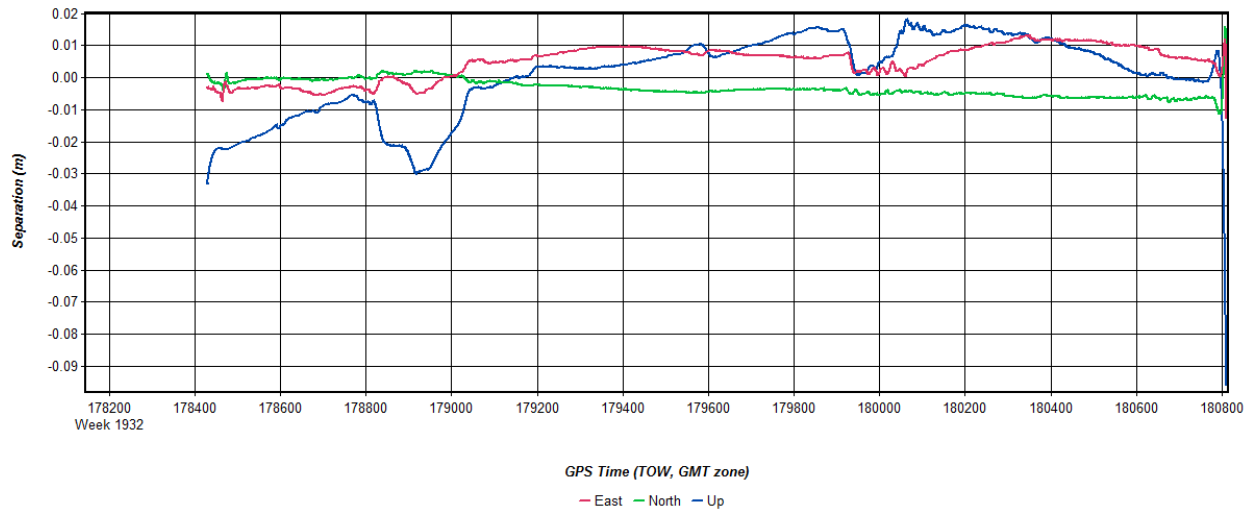
Maximum: 72.462 (km)
 Minimum: 0.304 (km)
 Average: 28.365 (km)
 First Epoch: 0.861 (km)
 Last Epoch: 0.618 (km)

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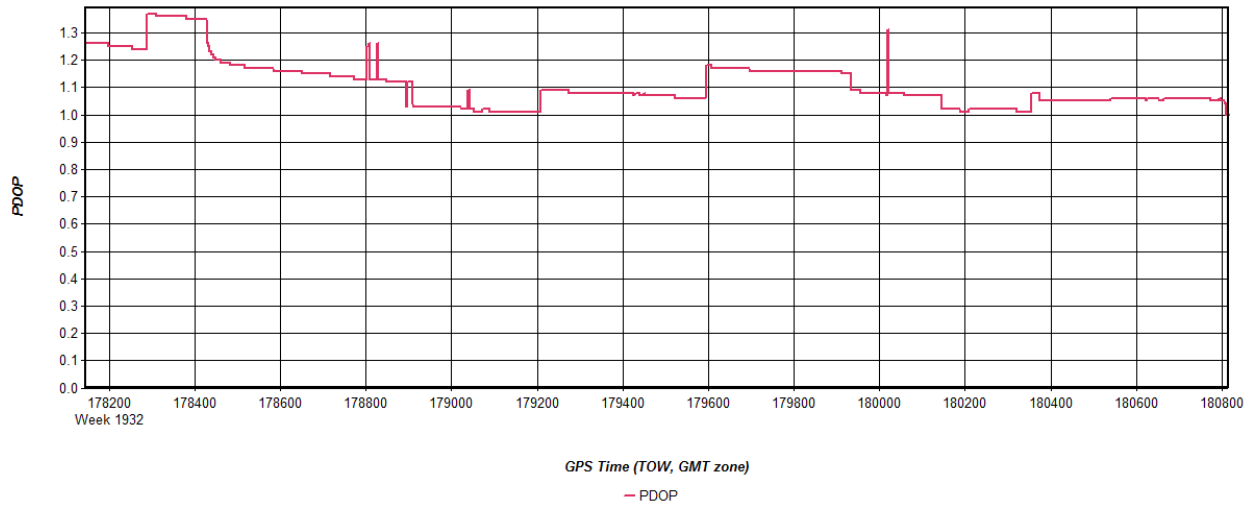
20170117_012606 [Smoothed TC Combined] - Smoothed TC Combined – Map



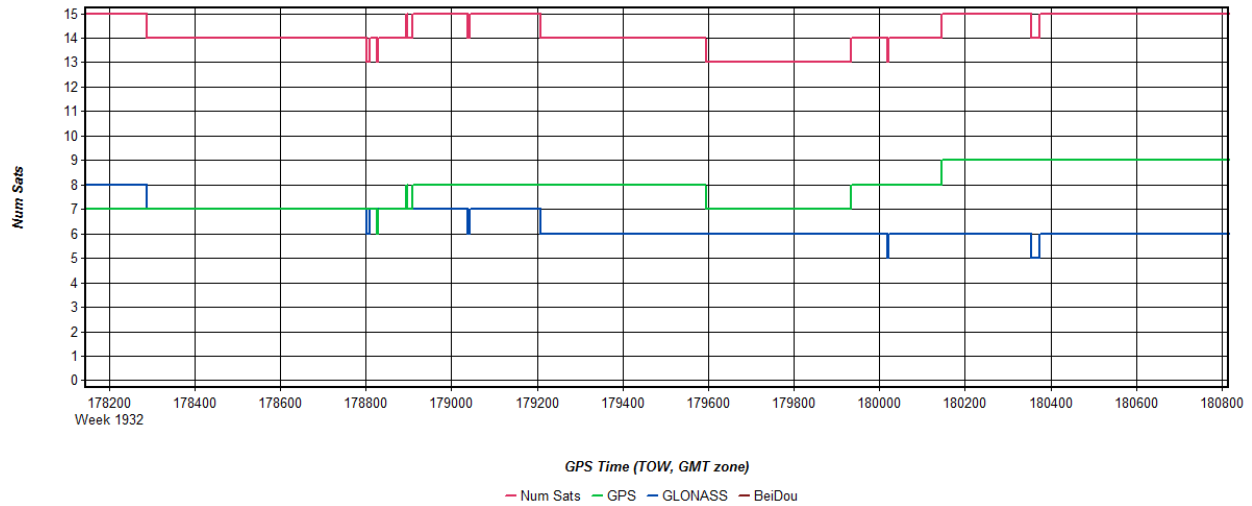
20170117_012606 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



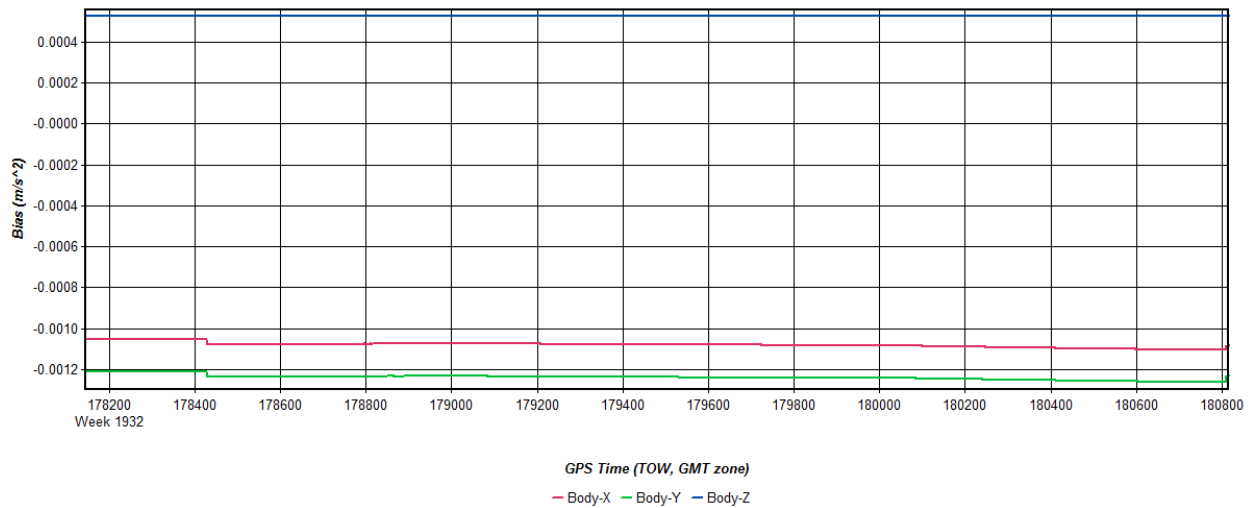
20170117_012606 [Smoothed TC Combined] - PDOP Plot



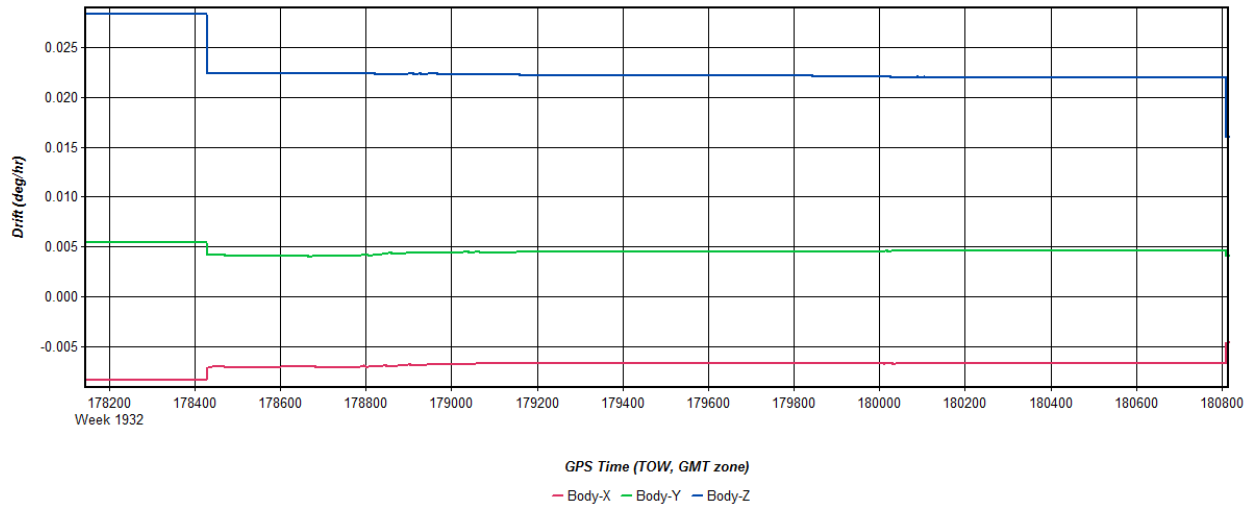
20170117_012606 [Smoothed TC Combined] - Number of Satellites Line Plot



20170117_012606 [Smoothed TC Combined] - Accelerometer Bias Plot



20170117_012606 [Smoothed TC Combined] - Gyro Drift Plot



Processing Summary Information

Project:

N:\Production\LiDAR_Projects\17004_Suwannee_River_FL_FY17\Flight_Raw\20170117_012606\Gnss\mu\20170117_012606.cfg

Solution Type: Combined

Number of Epochs:

Total in GPB file: 5358
No processed position: 7
Missing Fwd or Rev: 586
With bad C/A code: 0
With bad L1 Phase: 0

Quality Number Percentages:

Q 1: 55.7 %
Q 2: 37.9 %
Q 3: 6.5 %
Q 4: 0.0 %
Q 5: 0.0 %
Q 6: 0.0 %

Measurement RMS Values:

L1 Phase: 0.0154 (m)
C/A Code: 0.28 (m)
L1 Doppler: 0.030 (m/s)

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %
0.10 - 0.30 m: 0.0 %
0.30 - 1.00 m: 0.0 %
1.00 - 5.00 m: 0.0 %
5.00 m + over: 0.0 %

Fwd/Rev Separation RMS Values:

East: 0.007 (m)
North: 0.004 (m)
Height: 0.013 (m)

Percentages of epochs with DD_DOP over 10.00:

DOP over Tol: 0.0 %

Fwd/Rev Sep. RMS for dual FWD/REV fixes (4765 occurrences):

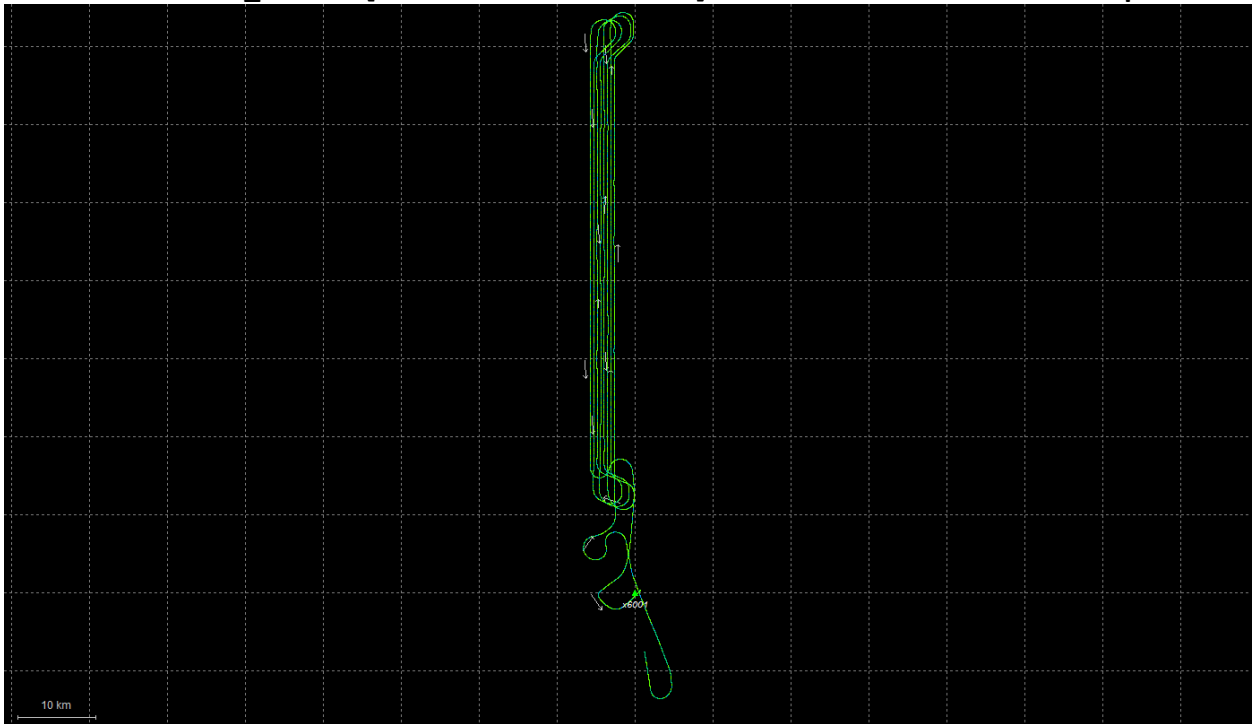
East: 0.007 (m)
North: 0.004 (m)
Height: 0.013 (m)

Baseline Distances:

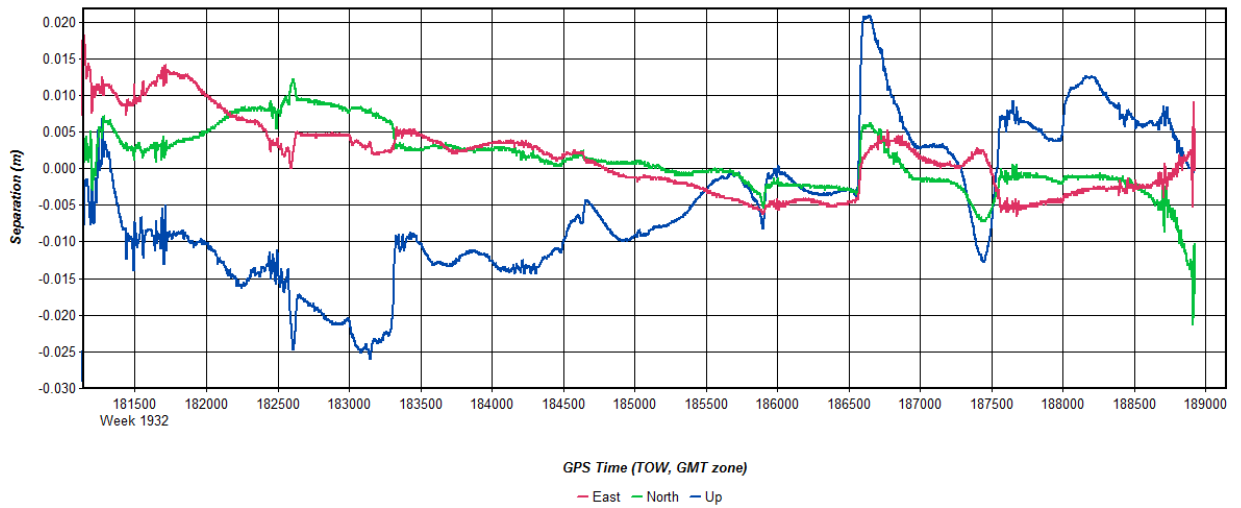
Maximum: 73.137 (km)
Minimum: 0.304 (km)
Average: 28.183 (km)
First Epoch: 0.861 (km)
Last Epoch: 13.485 (km)

Mission 2017-01-17 B

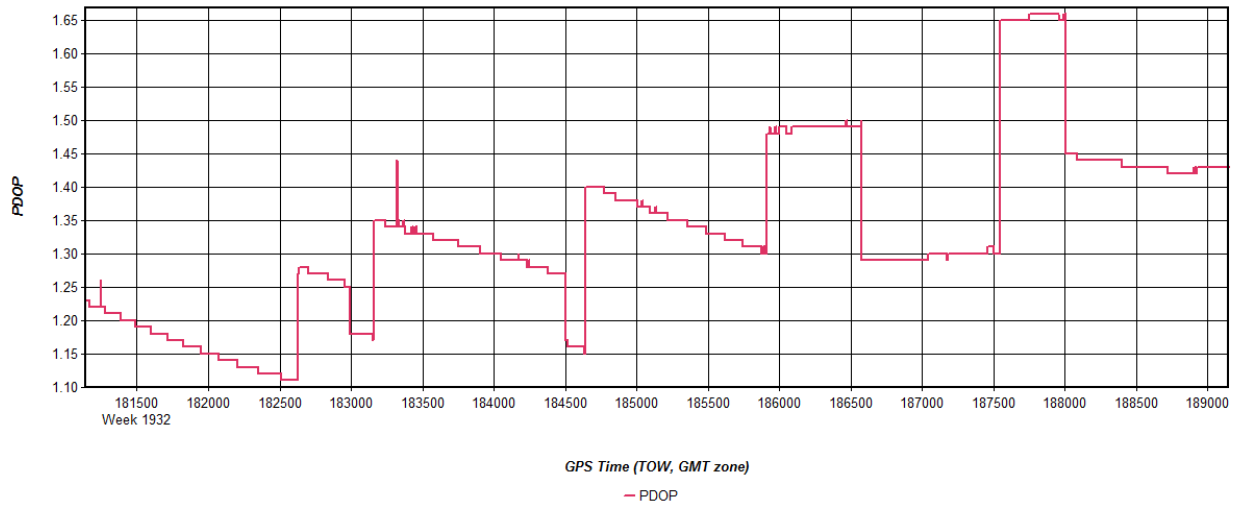
20170117_021658 [Smoothed TC Combined] - Smoothed TC Combined – Map



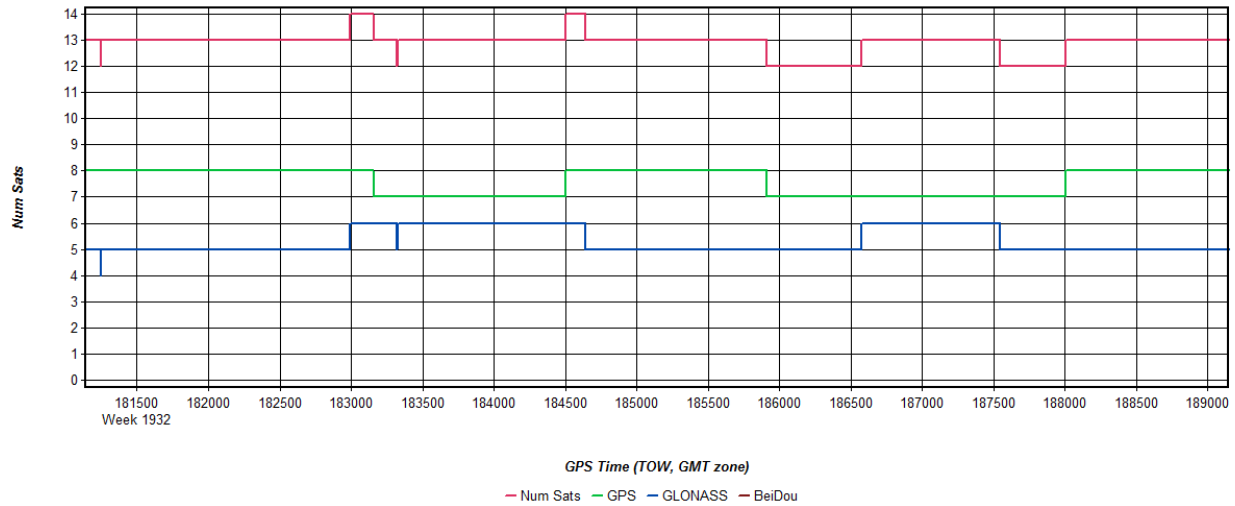
20170117_021658 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



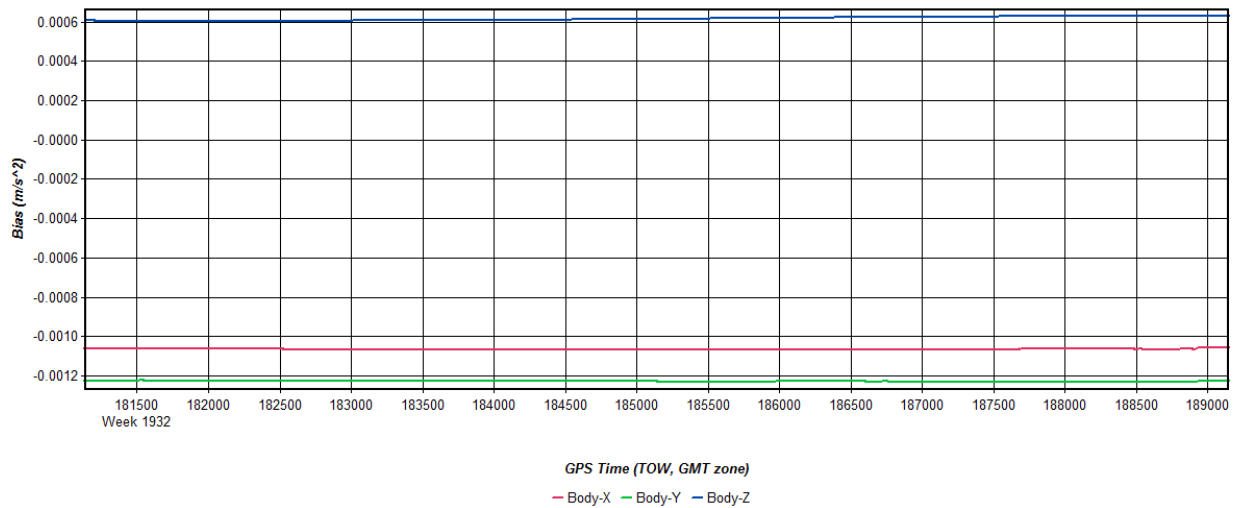
20170117_021658 [Smoothed TC Combined] - PDOP Plot



20170117_021658 [Smoothed TC Combined] - Number of Satellites Line Plot

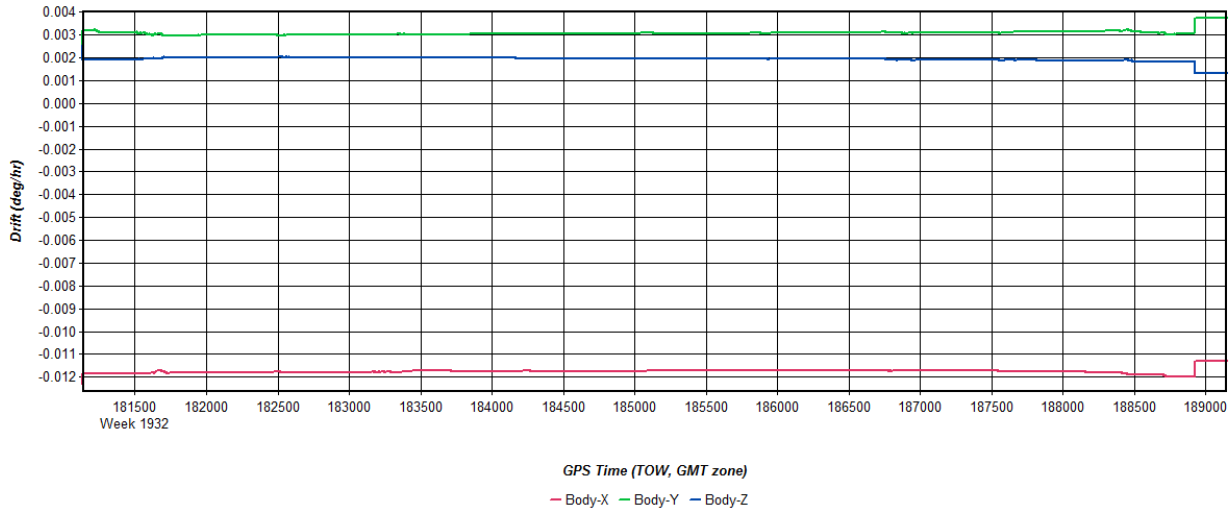


20170117_021658 [Smoothed TC Combined] - Accelerometer Bias Plot





20170117_021658 [Smoothed TC Combined] - Gyro Drift Plot



Processing Summary Information

Project:

N:\Production\LiDAR_Projects\17004_Suwannee_River_FL_FY17\Flight_Raw\20170117_021658\Gnss\mu\20170117_021658.cfg

Solution Type: Combined

Number of Epochs:

Total in GPB file: 16044
 No processed position: 7
 Missing Fwd or Rev: 450
 With bad C/A code: 0
 With bad L1 Phase: 0

Quality Number Percentages:

Q 1: 57.7 %
 Q 2: 37.5 %
 Q 3: 4.8 %
 Q 4: 0.0 %
 Q 5: 0.0 %
 Q 6: 0.0 %

Measurement RMS Values:

L1 Phase: 0.0162 (m)
 C/A Code: 0.28 (m)
 L1 Doppler: 0.027 (m/s)

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %
 0.10 - 0.30 m: 0.0 %
 0.30 - 1.00 m: 0.0 %
 1.00 - 5.00 m: 0.0 %
 5.00 m + over: 0.0 %

Fwd/Rev Separation RMS Values:

East: 0.005 (m)
 North: 0.004 (m)
 Height: 0.011 (m)

Percentages of epochs with DD_DOP over 10.00:

DOP over Tol: 0.0 %

Fwd/Rev Sep. RMS for dual FWD/REV fixes (15587 occurrences):

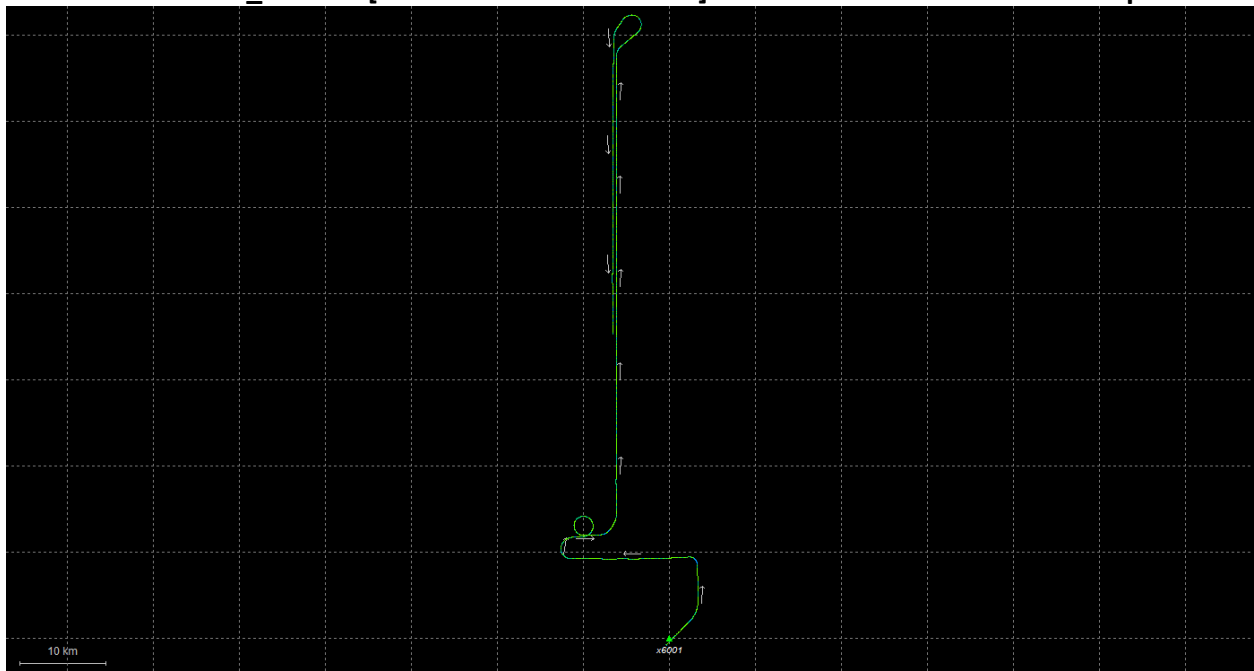
East: 0.005 (m)
 North: 0.004 (m)
 Height: 0.011 (m)

Baseline Distances:

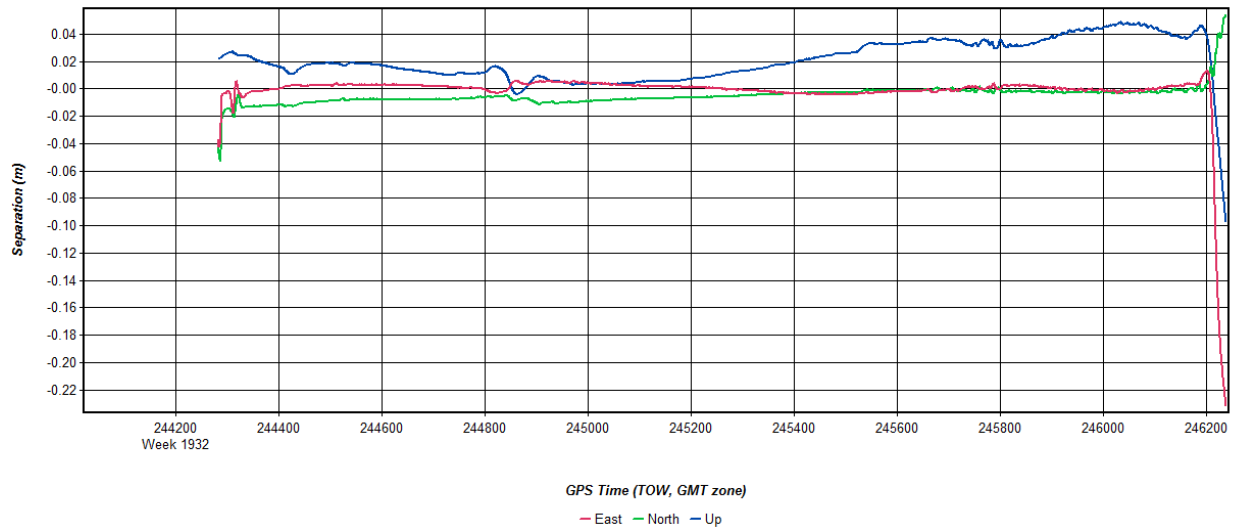
Maximum: 73.264 (km)
 Minimum: 0.303 (km)
 Average: 36.260 (km)
 First Epoch: 7.595 (km)
 Last Epoch: 0.628 (km)

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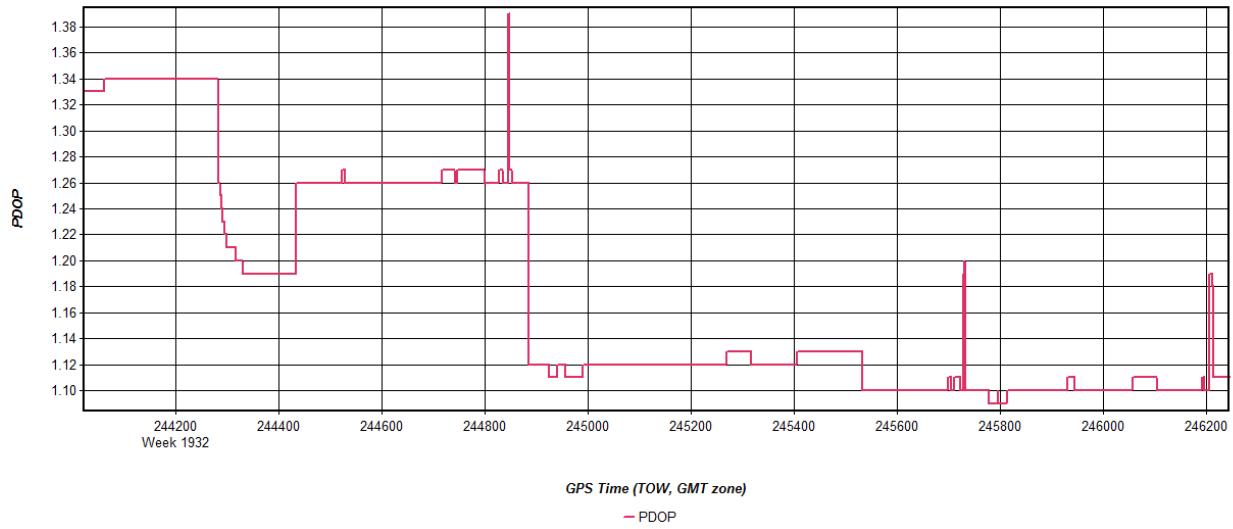
20170117_194336 [Smoothed TC Combined] - Smoothed TC Combined – Map



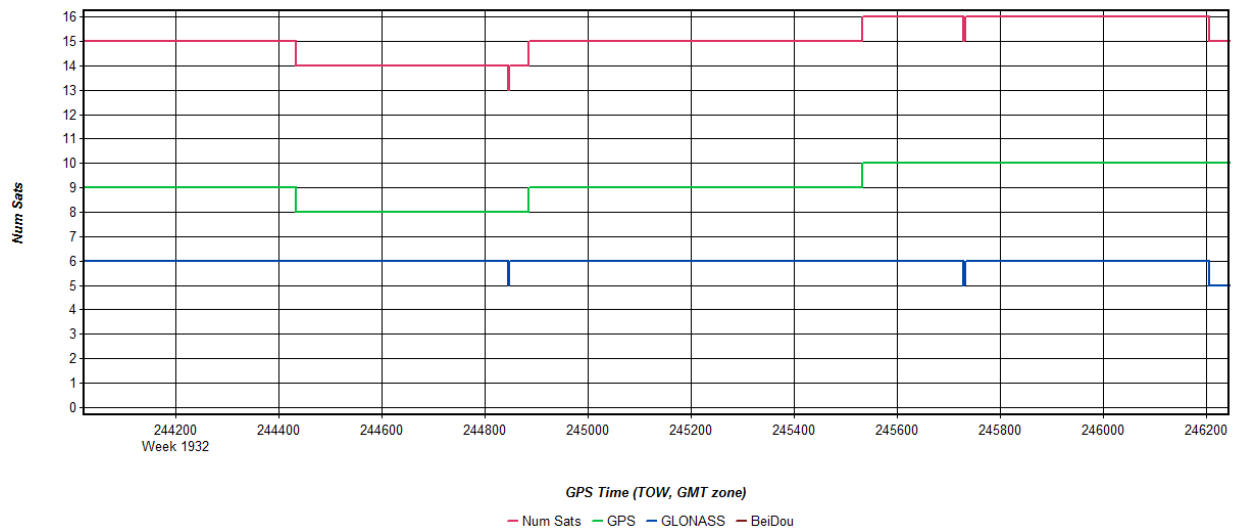
20170117_194336 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



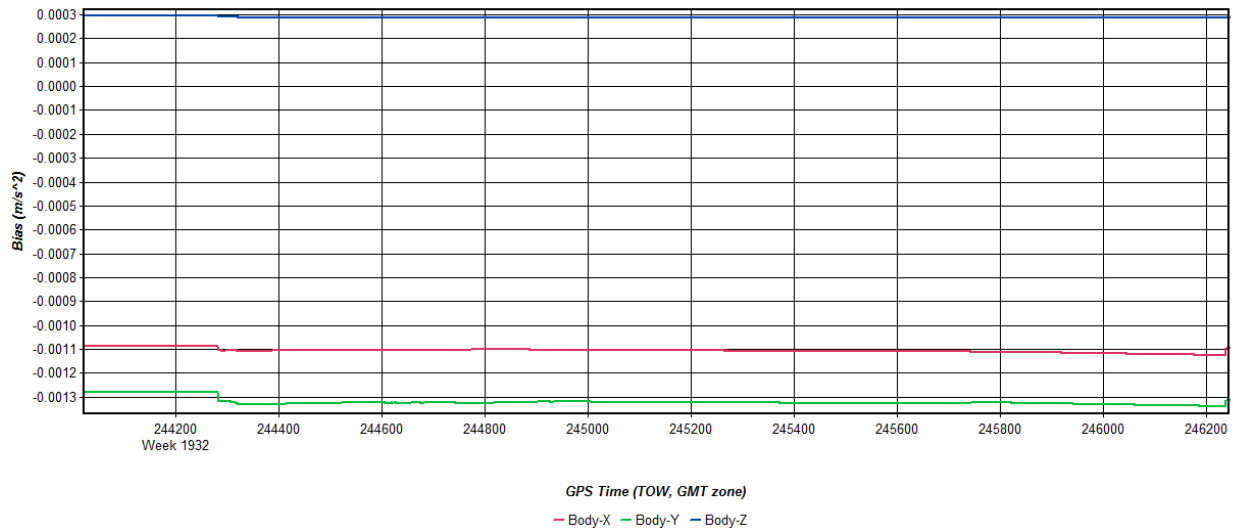
20170117_194336 [Smoothed TC Combined] - PDOP Plot



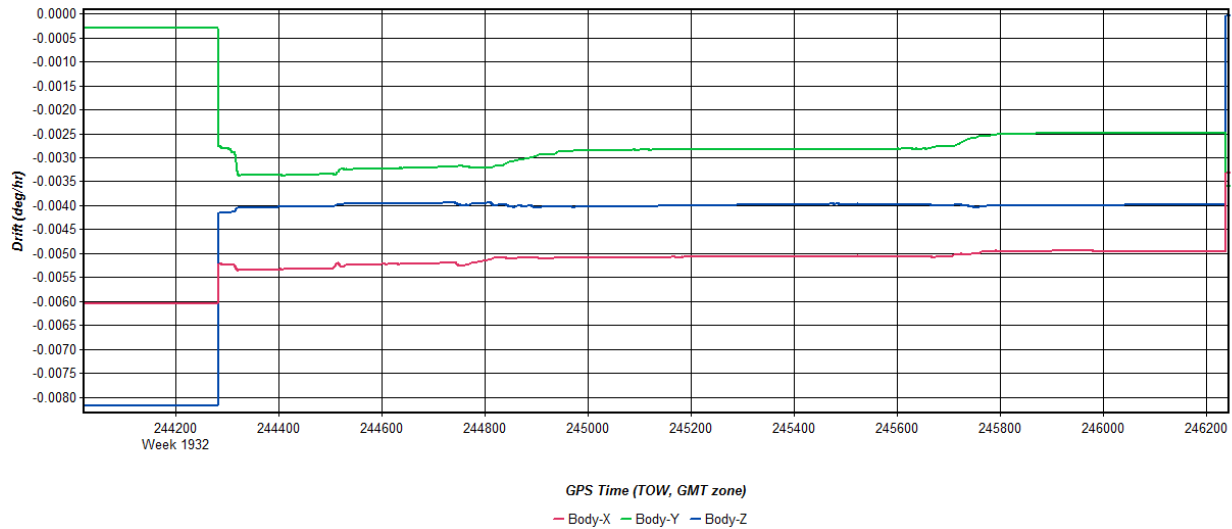
20170117_194336 [Smoothed TC Combined] - Number of Satellites Line Plot



20170117_194336 [Smoothed TC Combined] - Accelerometer Bias Plot



20170117_194336 [Smoothed TC Combined] - Gyro Drift Plot



Processing Summary Information

Project:

N:\Production\LiDAR_Projects\17004_Suwannee_River_FL_FY17\Flight_Raw\20170117_194336\Gnss\mu\20170117_194336.cfg

Solution Type: Combined

Number of Epochs:

Total in GPB file: 4460
 No processed position: 7
 Missing Fwd or Rev: 540
 With bad C/A code: 0
 With bad L1 Phase: 0

Quality Number Percentages:

Q 1: 56.1 %
 Q 2: 37.7 %
 Q 3: 6.2 %
 Q 4: 0.0 %
 Q 5: 0.0 %
 Q 6: 0.0 %

Measurement RMS Values:

L1 Phase: 0.0196 (m)
 C/A Code: 0.30 (m)
 L1 Doppler: 0.031 (m/s)

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %
 0.10 - 0.30 m: 0.0 %
 0.30 - 1.00 m: 0.0 %
 1.00 - 5.00 m: 0.0 %
 5.00 m + over: 0.0 %

Fwd/Rev Separation RMS Values:

East: 0.020 (m)
 North: 0.008 (m)
 Height: 0.026 (m)

Percentages of epochs with DD_DOP over 10.00:

DOP over Tol: 0.0 %

Fwd/Rev Sep. RMS for dual FWD/REV fixes (3864 occurrences):

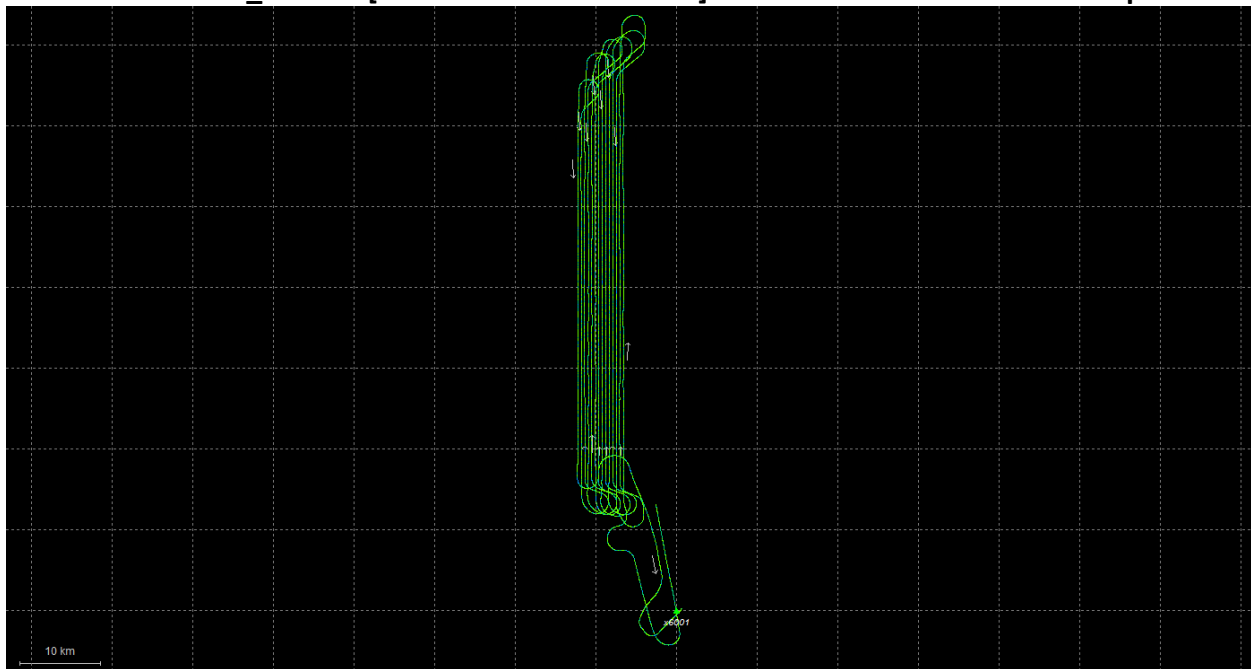
East: 0.004 (m)
 North: 0.007 (m)
 Height: 0.026 (m)

Baseline Distances:

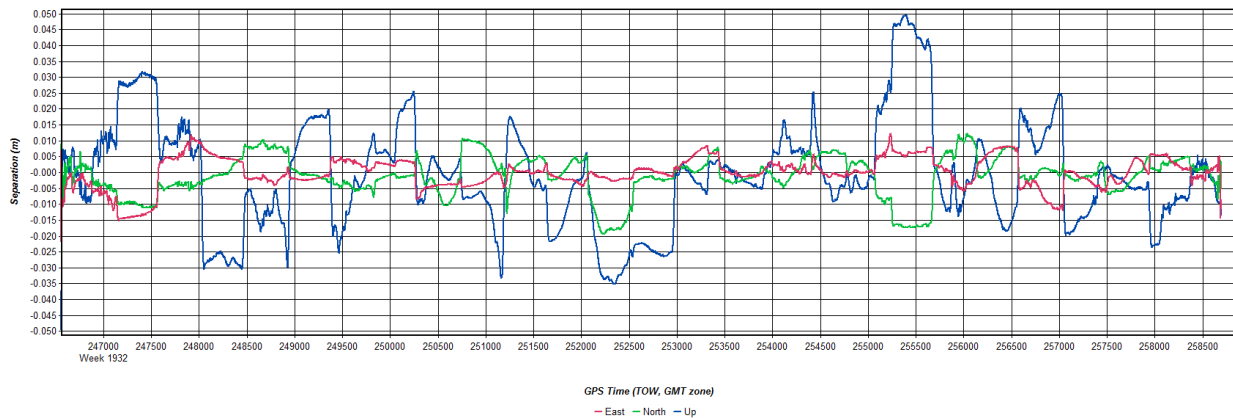
Maximum: 71.590 (km)
 Minimum: 0.304 (km)
 Average: 30.625 (km)
 First Epoch: 0.856 (km)
 Last Epoch: 35.495 (km)

Mission 2017-01-17 D

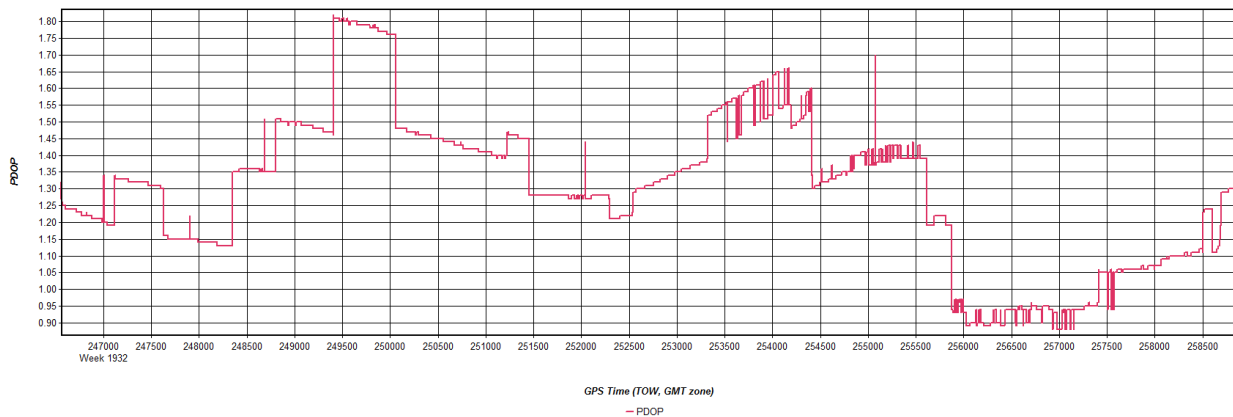
20170117_202723 [Smoothed TC Combined] - Smoothed TC Combined – Map



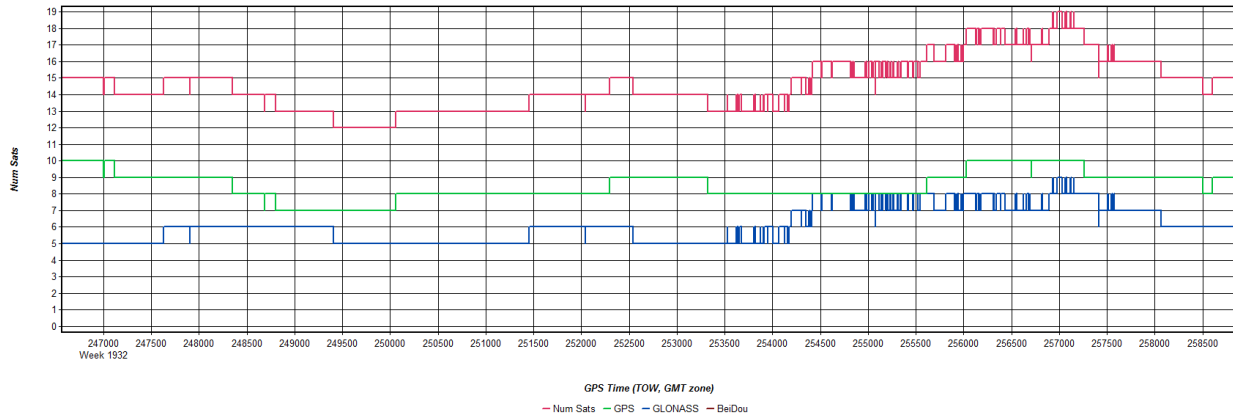
20170117_202723 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



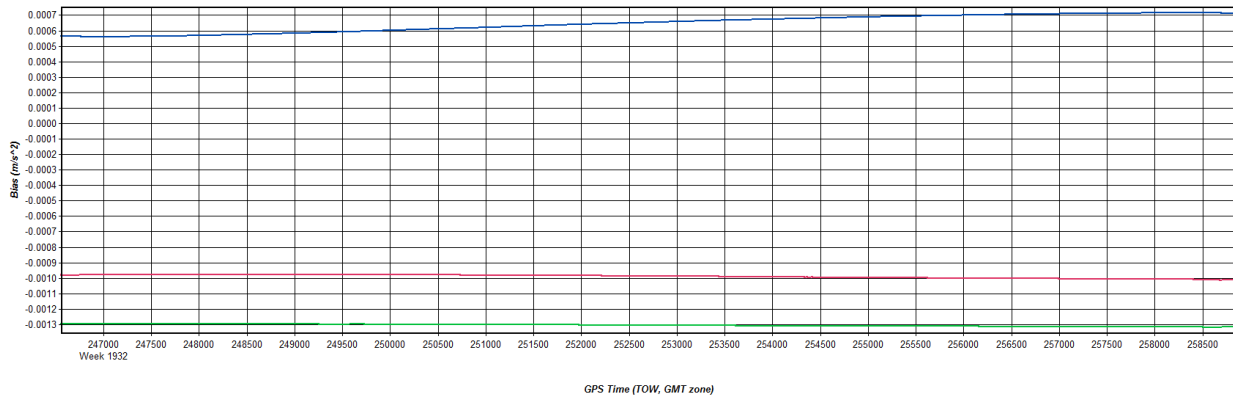
20170117_202723 [Smoothed TC Combined] - PDOP Plot



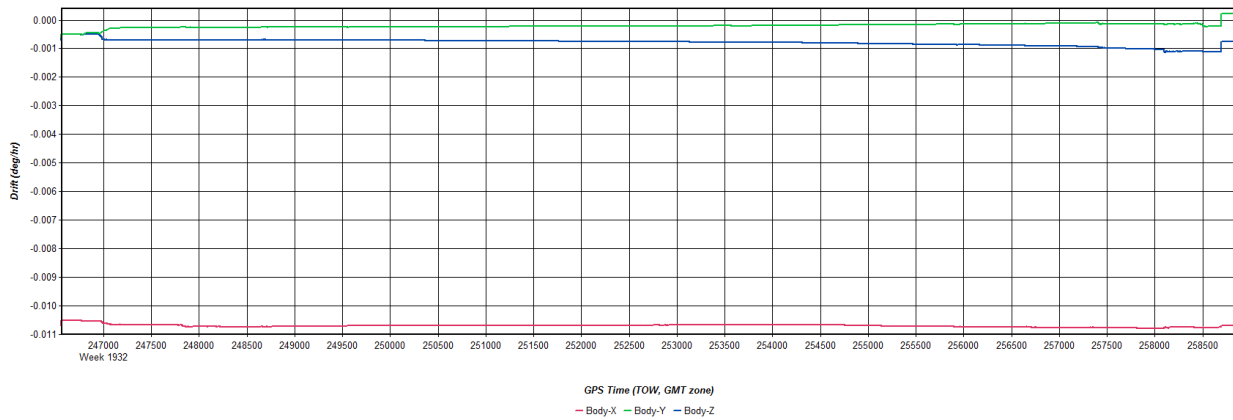
20170117_202723 [Smoothed TC Combined] - Number of Satellites Line Plot



20170117_202723 [Smoothed TC Combined] - Accelerometer Bias Plot



20170117_202723 [Smoothed TC Combined] - Gyro Drift Plot





Processing Summary Information

Project:

N:\Production\LIDAR_Projects\17004_Suwannee_River_FL_FY17\Flight_Raw\20170117_202723\GnssI
mu\20170117_202723.cfg

Solution Type: Combined

Number of Epochs:

Total in GPB file: 24605
No processed position: 6
Missing Fwd or Rev: 328
With bad C/A code: 0
With bad L1 Phase: 0

Quality Number Percentages:

Q 1: 57.8 %
Q 2: 37.6 %
Q 3: 4.5 %
Q 4: 0.0 %
Q 5: 0.0 %
Q 6: 0.0 %

Measurement RMS Values:

L1 Phase: 0.0164 (m)
C/A Code: 0.33 (m)
L1 Doppler: 0.030 (m/s)

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %
0.10 - 0.30 m: 0.0 %
0.30 - 1.00 m: 0.0 %
1.00 - 5.00 m: 0.0 %
5.00 m + over: 0.0 %

Fwd/Rev Separation RMS Values:

East: 0.005 (m)
North: 0.006 (m)
Height: 0.017 (m)

Percentages of epochs with DD_DOP over 10.00:

DOP over Tol: 0.0 %

Fwd/Rev Sep. RMS for dual FWD/REV fixes (24271 occurrences):

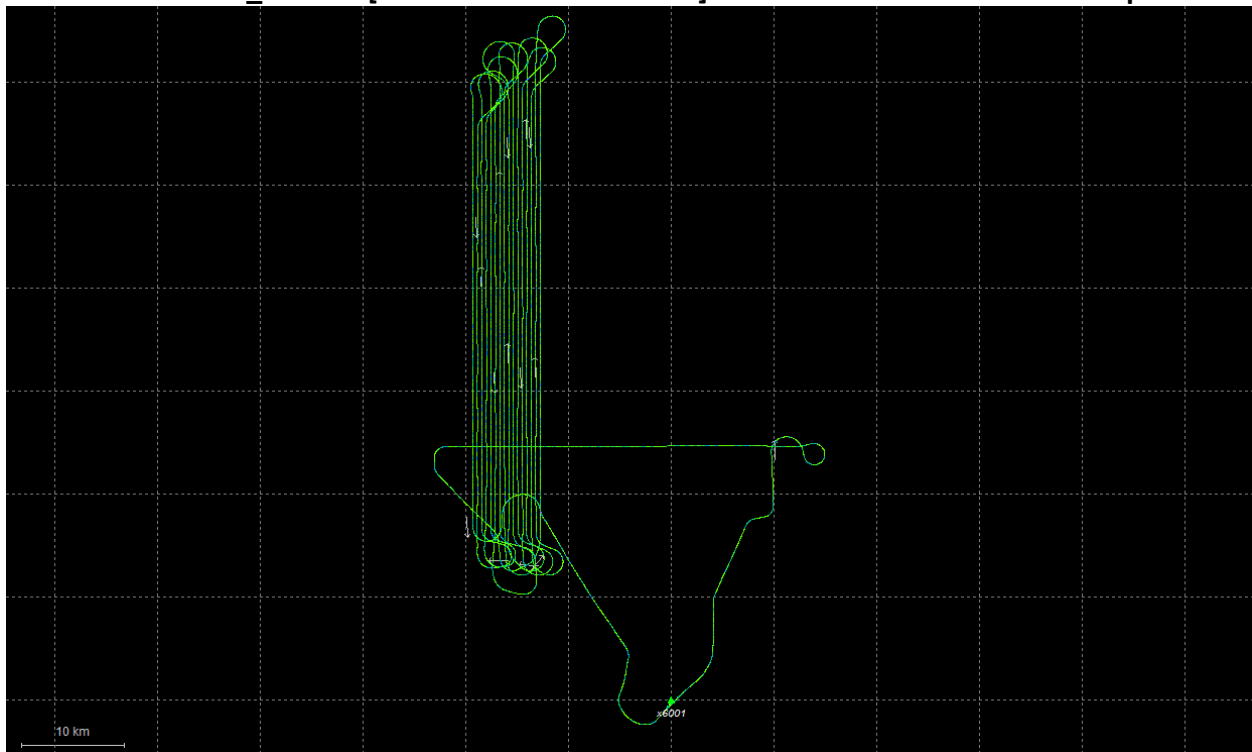
East: 0.005 (m)
North: 0.006 (m)
Height: 0.017 (m)

Baseline Distances:

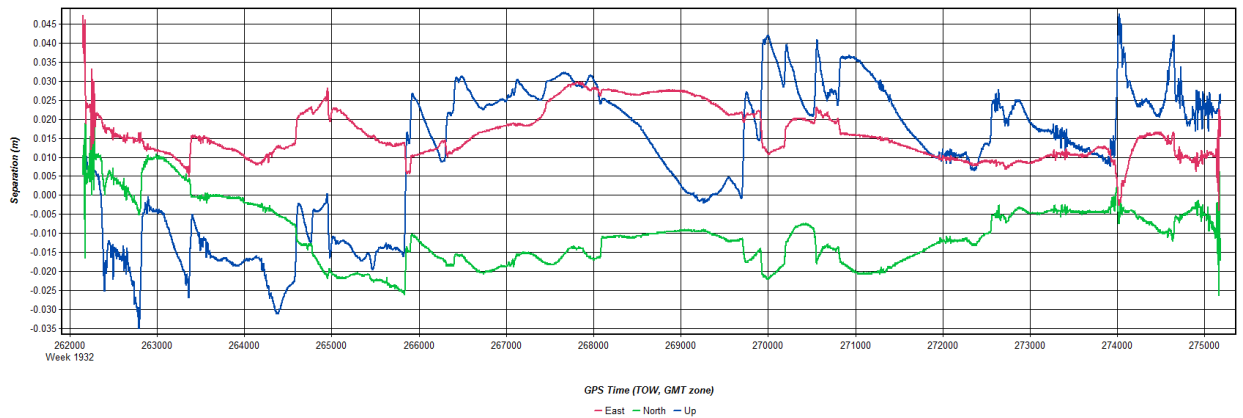
Maximum: 73.496 (km)
Minimum: 0.033 (km)
Average: 38.371 (km)
First Epoch: 13.284 (km)
Last Epoch: 0.633 (km)

Mission 2017-01-18 A

20170118_004307 [Smoothed TC Combined] - Smoothed TC Combined - Map



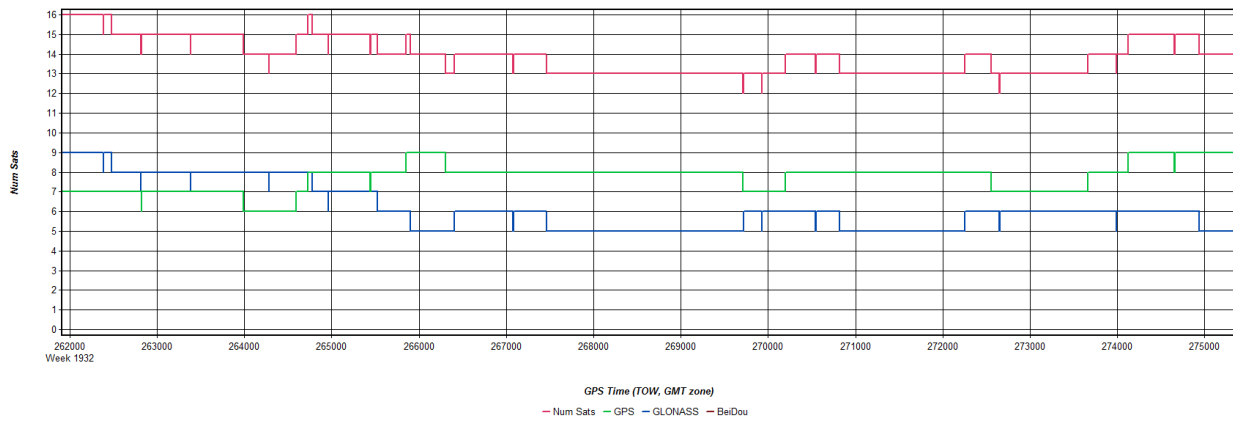
20170118_004307 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



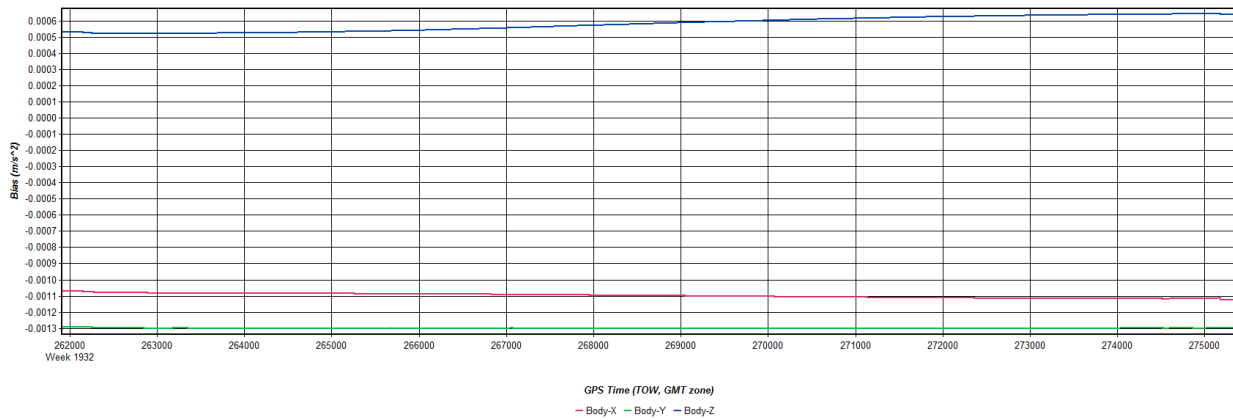
20170118_004307 [Smoothed TC Combined] - PDOP Plot



20170118_004307 [Smoothed TC Combined] - Number of Satellites Line Plot

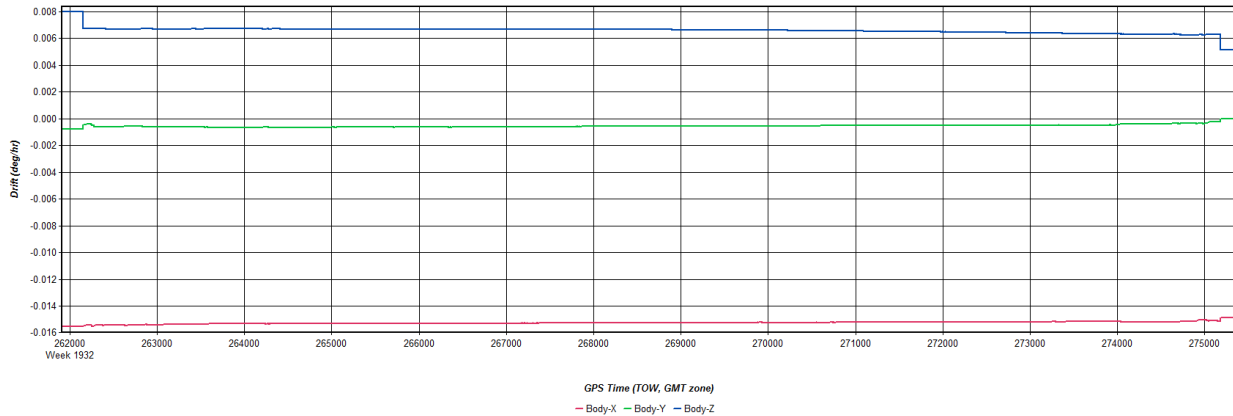


20170118_004307 [Smoothed TC Combined] - Accelerometer Bias Plot





20170118_004307 [Smoothed TC Combined] - Gyro Drift Plot



Processing Summary Information

Project:

N:\Production\LiDAR_Projects\17004_Suwannee_River_FL_FY17\Flight_Raw\20170118_004307\Gnss\mu\20170118_004307.cfg

Solution Type: Combined

Number of Epochs:

Total in GPB file: 26934
 No processed position: 7
 Missing Fwd or Rev: 864
 With bad C/A code: 0
 With bad L1 Phase: 0

Quality Number Percentages:

Q 1: 58.4 %
 Q 2: 36.7 %
 Q 3: 4.9 %
 Q 4: 0.0 %
 Q 5: 0.0 %
 Q 6: 0.0 %

Measurement RMS Values:

L1 Phase: 0.0189 (m)
 C/A Code: 0.33 (m)
 L1 Doppler: 0.029 (m/s)

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %
 0.10 - 0.30 m: 0.0 %
 0.30 - 1.00 m: 0.0 %
 1.00 - 5.00 m: 0.0 %
 5.00 m + over: 0.0 %

Fwd/Rev Separation RMS Values:

East: 0.017 (m)
 North: 0.013 (m)
 Height: 0.021 (m)

Percentages of epochs with DD_DOP over 10.00:

DOP over Tol: 0.0 %

Fwd/Rev Sep. RMS for dual FWD/REV fixes (26063 occurrences):

East: 0.017 (m)
 North: 0.013 (m)
 Height: 0.021 (m)

Baseline Distances:

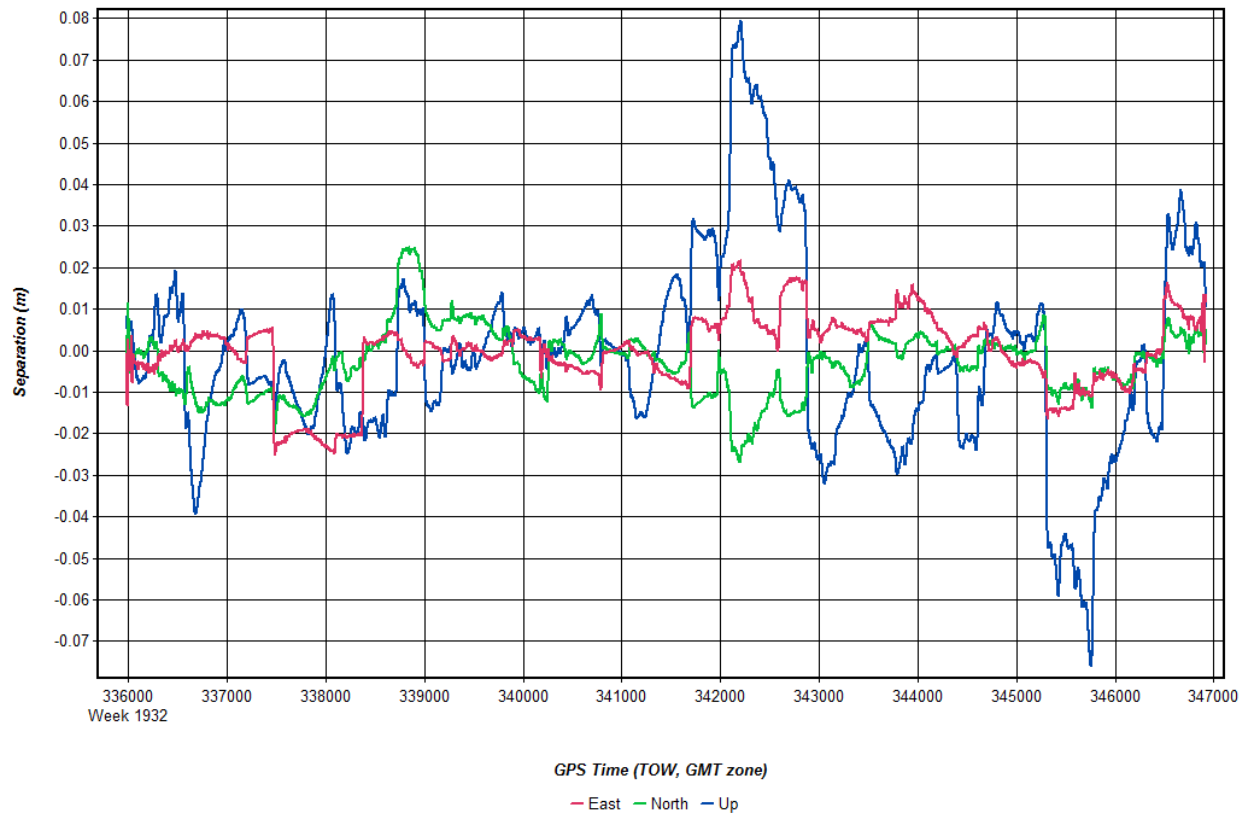
Maximum: 66.614 (km)
 Minimum: 0.122 (km)
 Average: 36.052 (km)
 First Epoch: 0.122 (km)
 Last Epoch: 0.613 (km)

Mission 2017-01-18 B

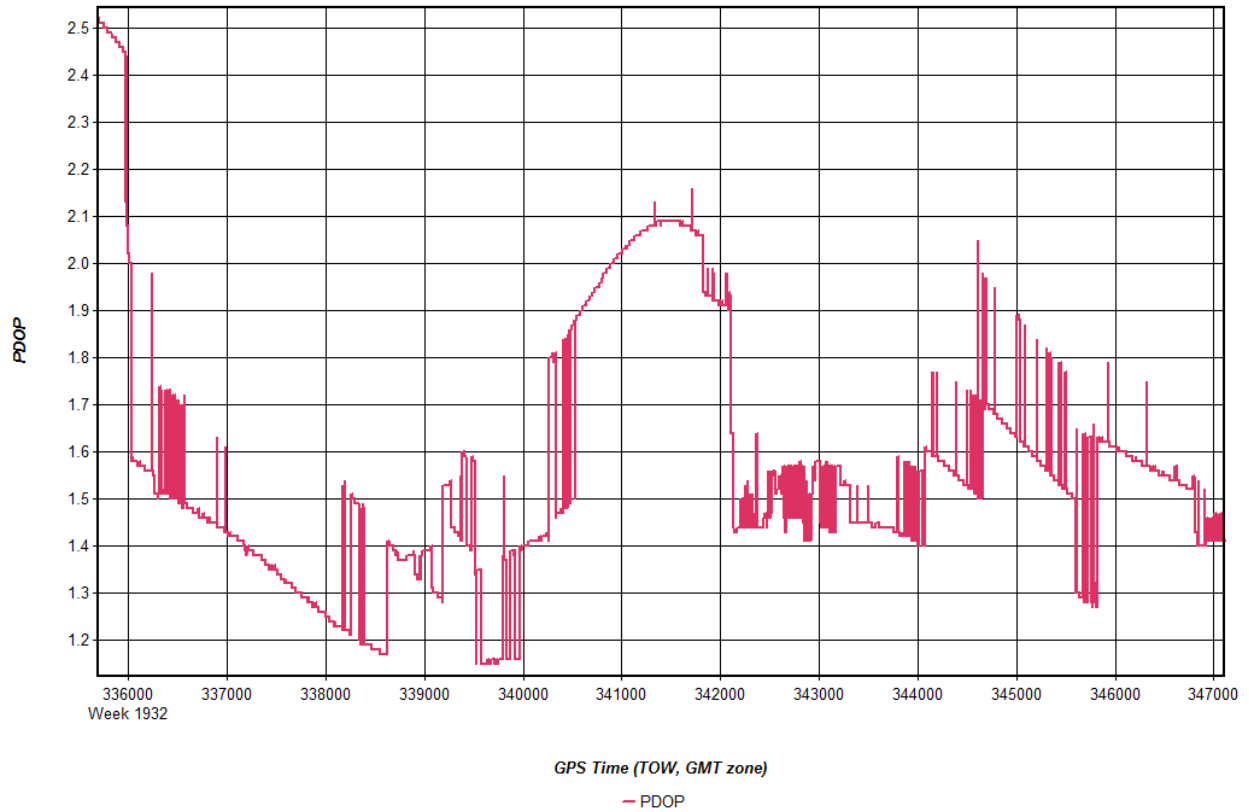
20170118_211235 [Smoothed TC Combined] - Smoothed TC Combined – Map



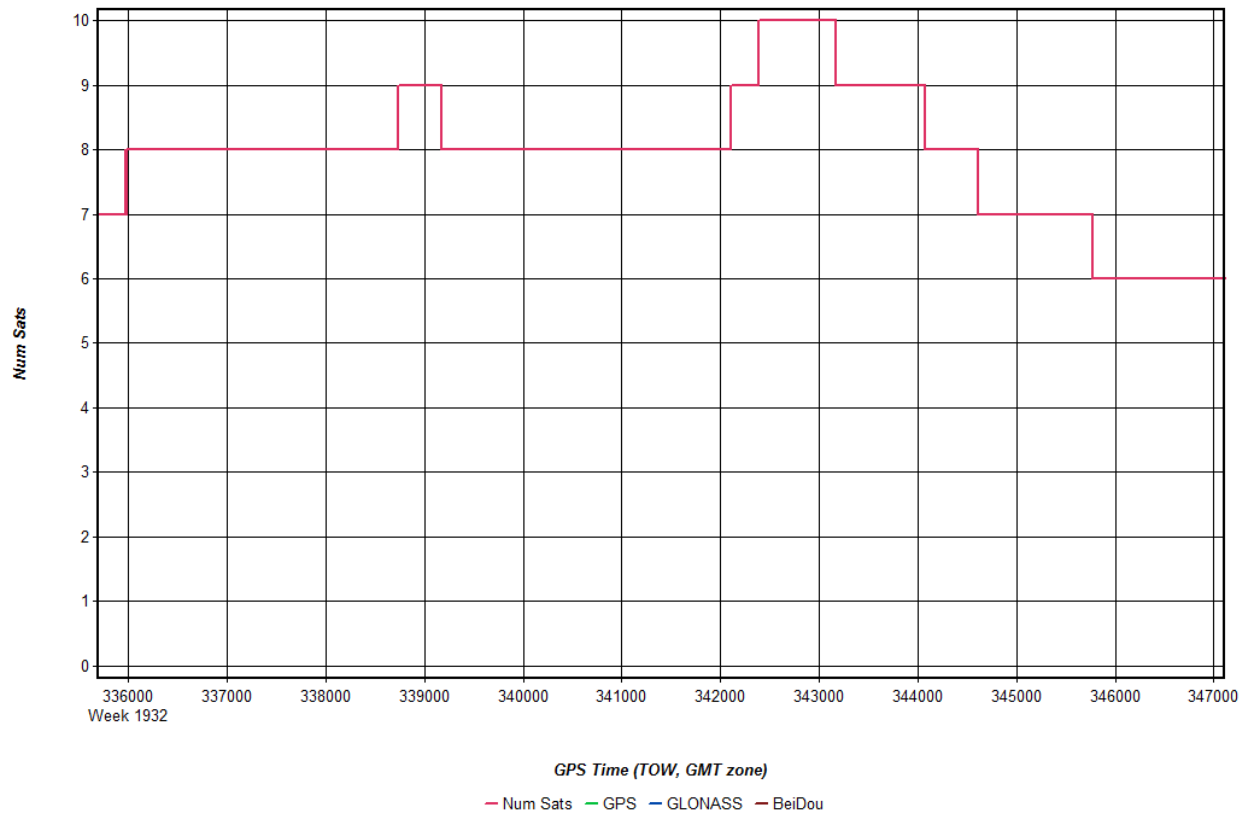
20170118_211235 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



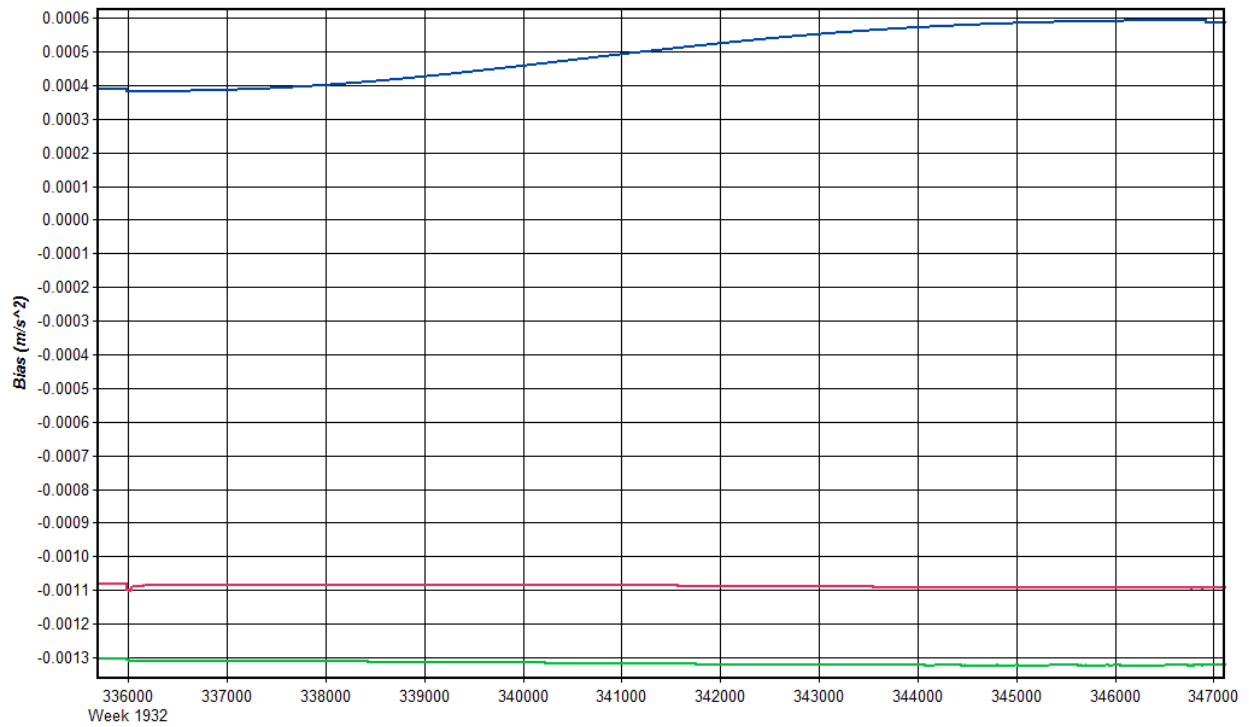
20170118_211235 [Smoothed TC Combined] - PDOP Plot



20170118_211235 [Smoothed TC Combined] - Number of Satellites Line Plot



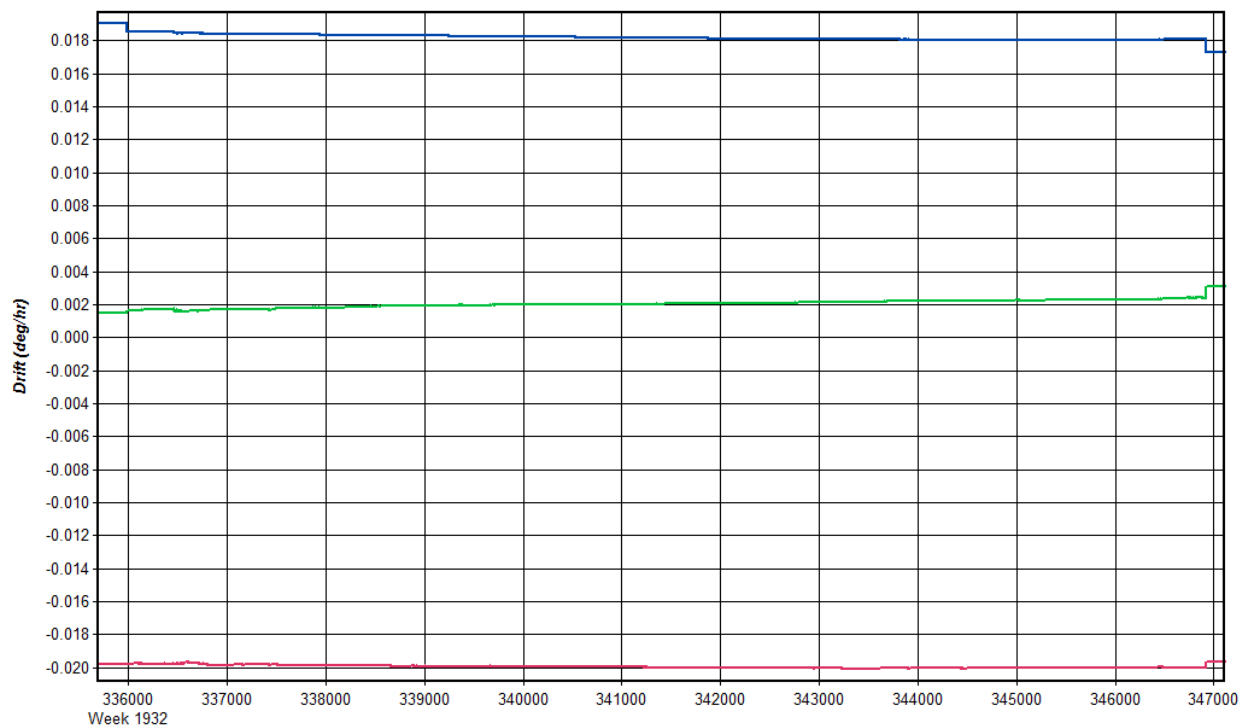
20170118_211235 [Smoothed TC Combined] - Accelerometer Bias Plot



GPS Time (TOW, GMT zone)

Body-X Body-Y Body-Z

20170118_211235 [Smoothed TC Combined] - Gyro Drift Plot



GPS Time (TOW, GMT zone)

Body-X Body-Y Body-Z



Processing Summary Information

Project:

N:\Production\LIDAR_Projects\17004_Suwannee_River_FL_FY17\Flight_Raw\20170118_211235\Gnss\mu\20170118_211235.cfg

Solution Type: Combined

Number of Epochs:

Total in GPB file: 22882
No processed position: 9
Missing Fwd or Rev: 1012
With bad C/A code: 0
With bad L1 Phase: 0

Quality Number Percentages:

Q 1: 58.7 %
Q 2: 36.6 %
Q 3: 4.7 %
Q 4: 0.0 %
Q 5: 0.0 %
Q 6: 0.0 %

Measurement RMS Values:

L1 Phase: 0.0150 (m)
C/A Code: 0.40 (m)
L1 Doppler: 0.026 (m/s)

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %
0.10 - 0.30 m: 0.0 %
0.30 - 1.00 m: 0.0 %
1.00 - 5.00 m: 0.0 %
5.00 m + over: 0.0 %

Fwd/Rev Separation RMS Values:

East: 0.009 (m)
North: 0.009 (m)
Height: 0.023 (m)

Percentages of epochs with DD_DOP over 10.00:

DOP over Tol: 0.0 %

Fwd/Rev Sep. RMS for dual FWD/REV fixes (21861 occurrences):

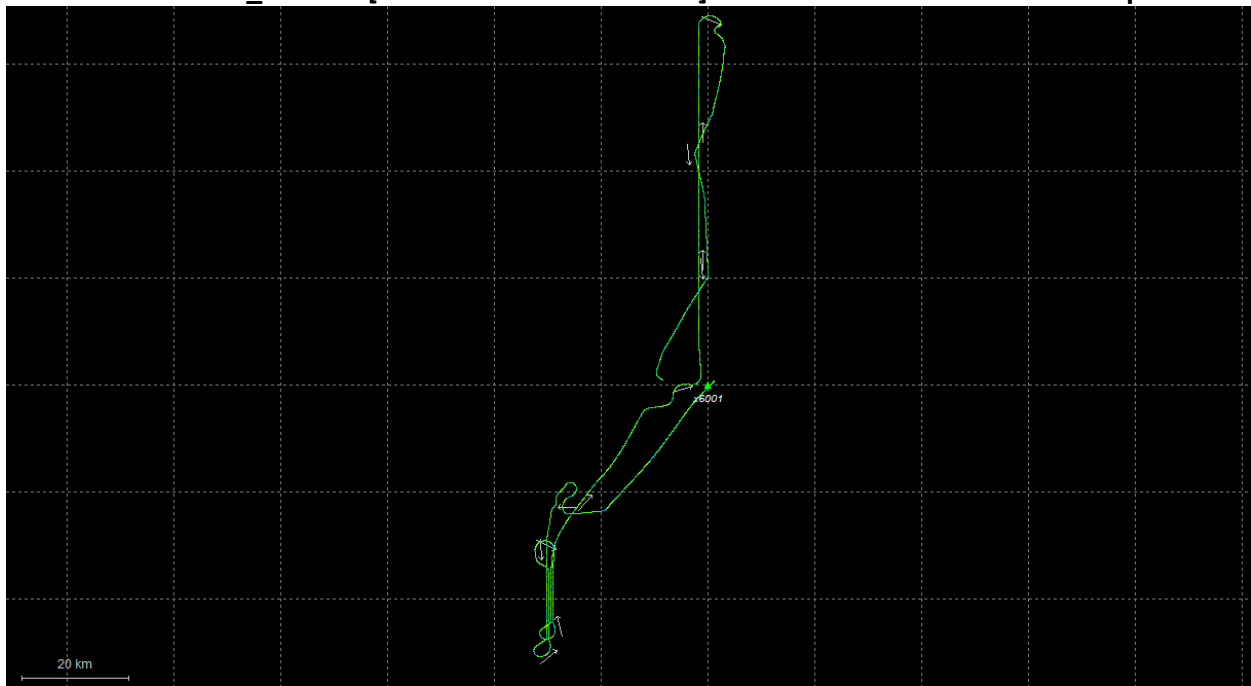
East: 0.009 (m)
North: 0.009 (m)
Height: 0.023 (m)

Baseline Distances:

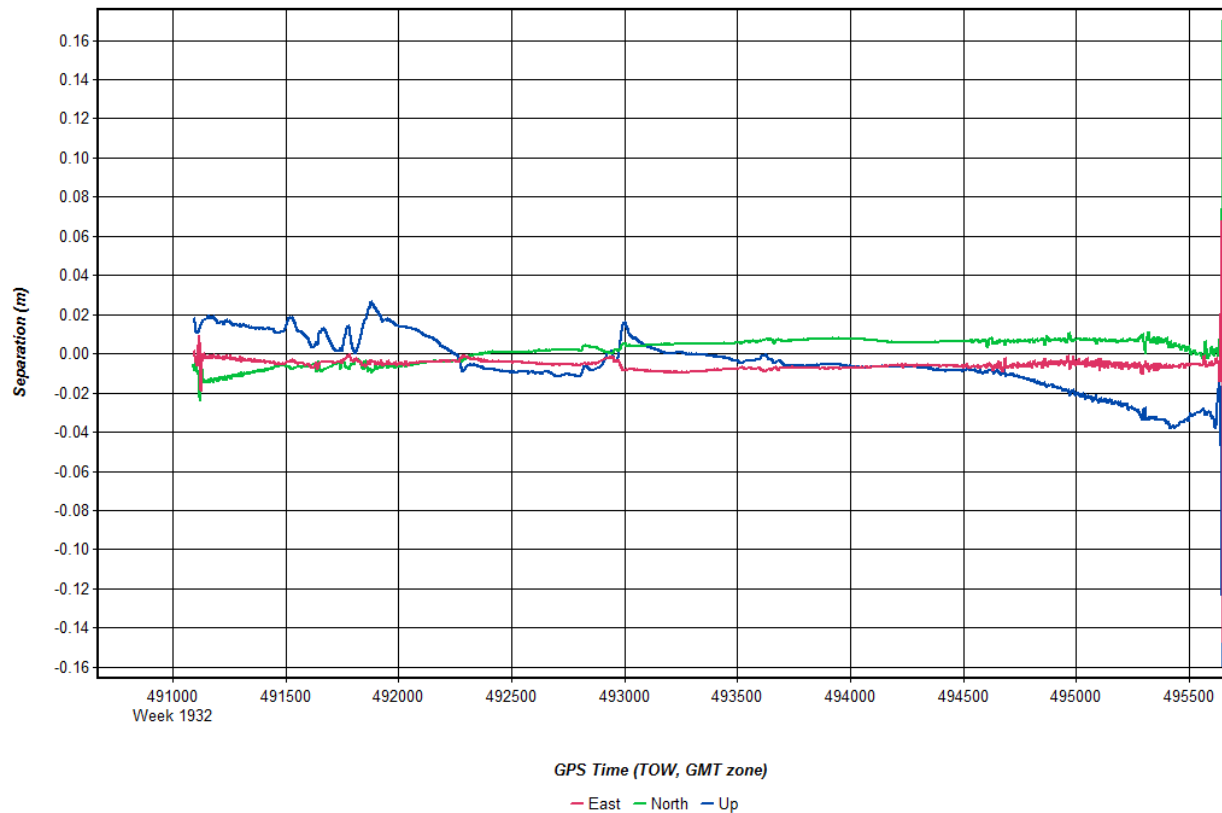
Maximum: 54.685 (km)
Minimum: 0.277 (km)
Average: 32.458 (km)
First Epoch: 1.130 (km)
Last Epoch: 0.277 (km)

Mission 2017-01-20 A

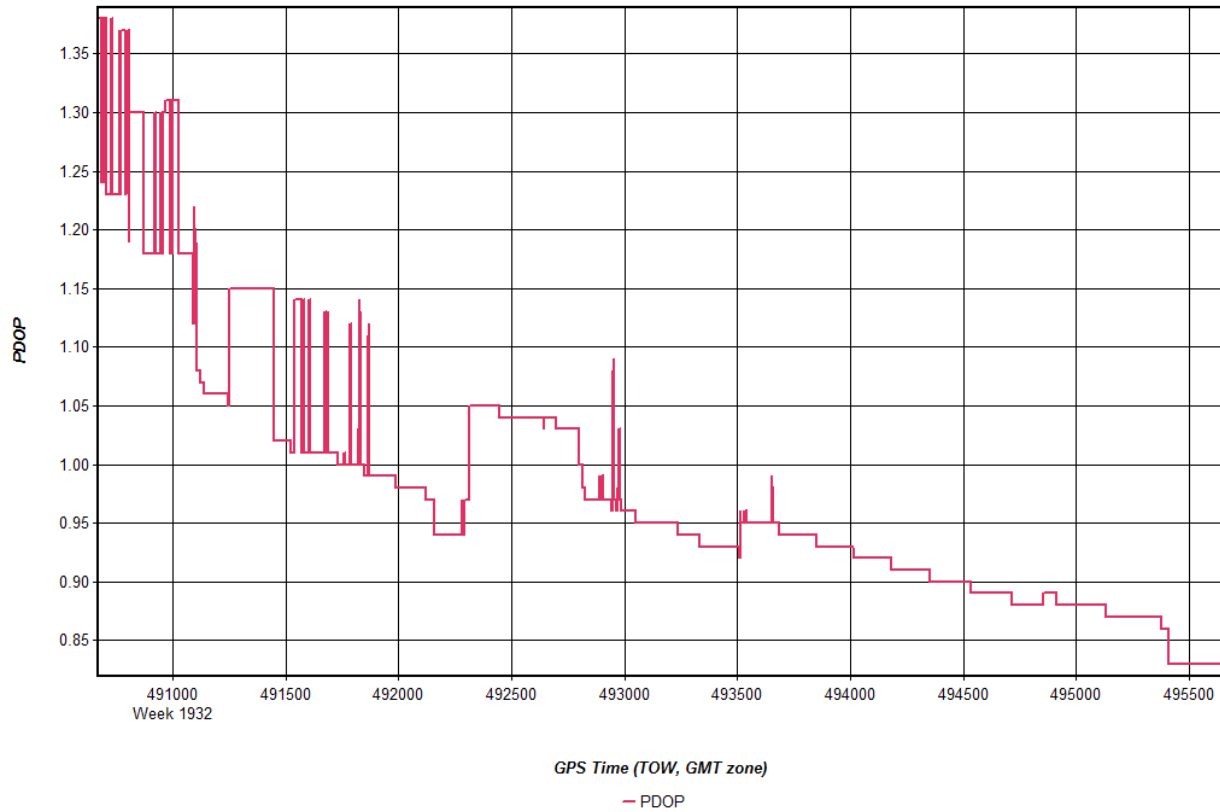
20170120_161513 [Smoothed TC Combined] - Smoothed TC Combined – Map



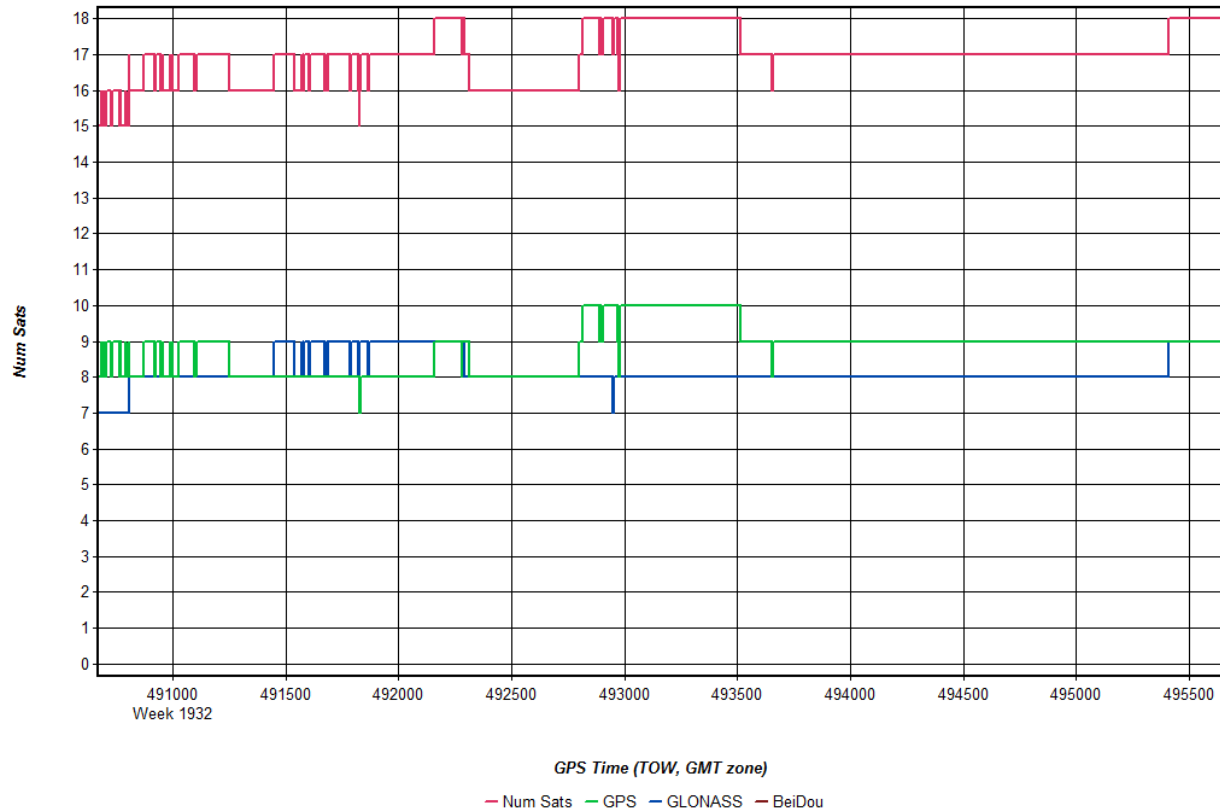
20170120_161513 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



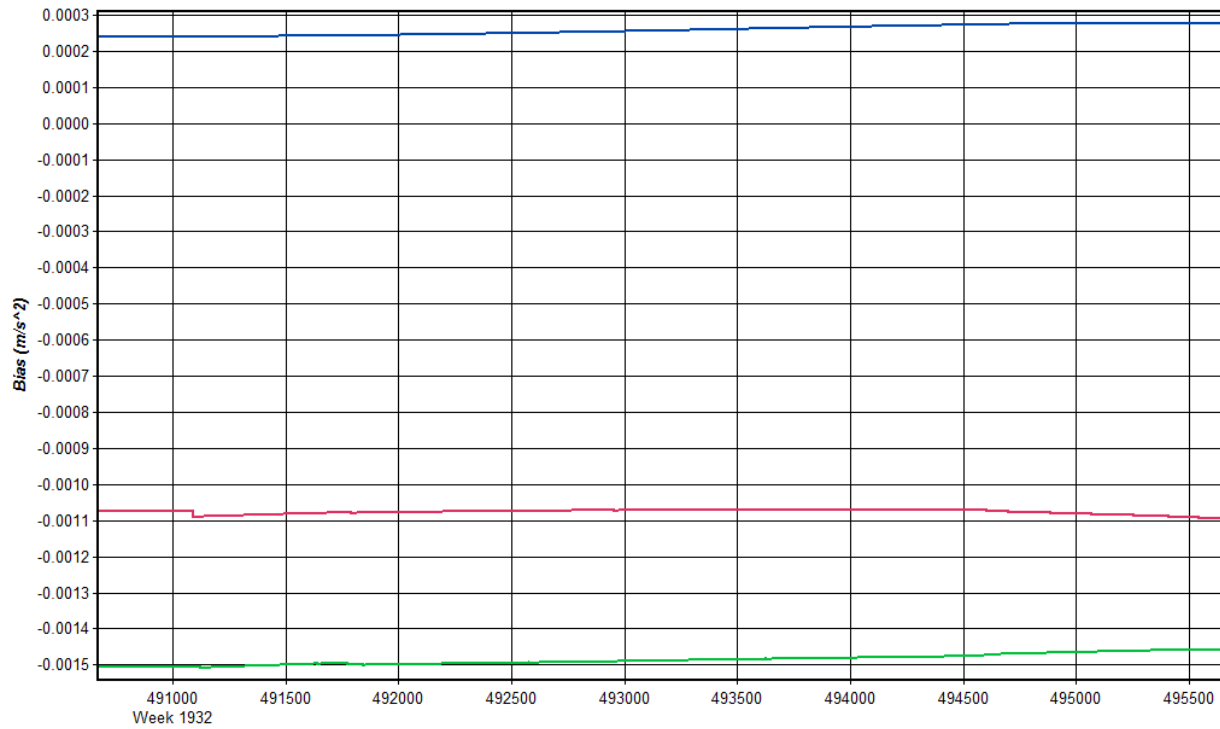
20170120_161513 [Smoothed TC Combined] - PDOP Plot



20170120_161513 [Smoothed TC Combined] - Number of Satellites Line Plot



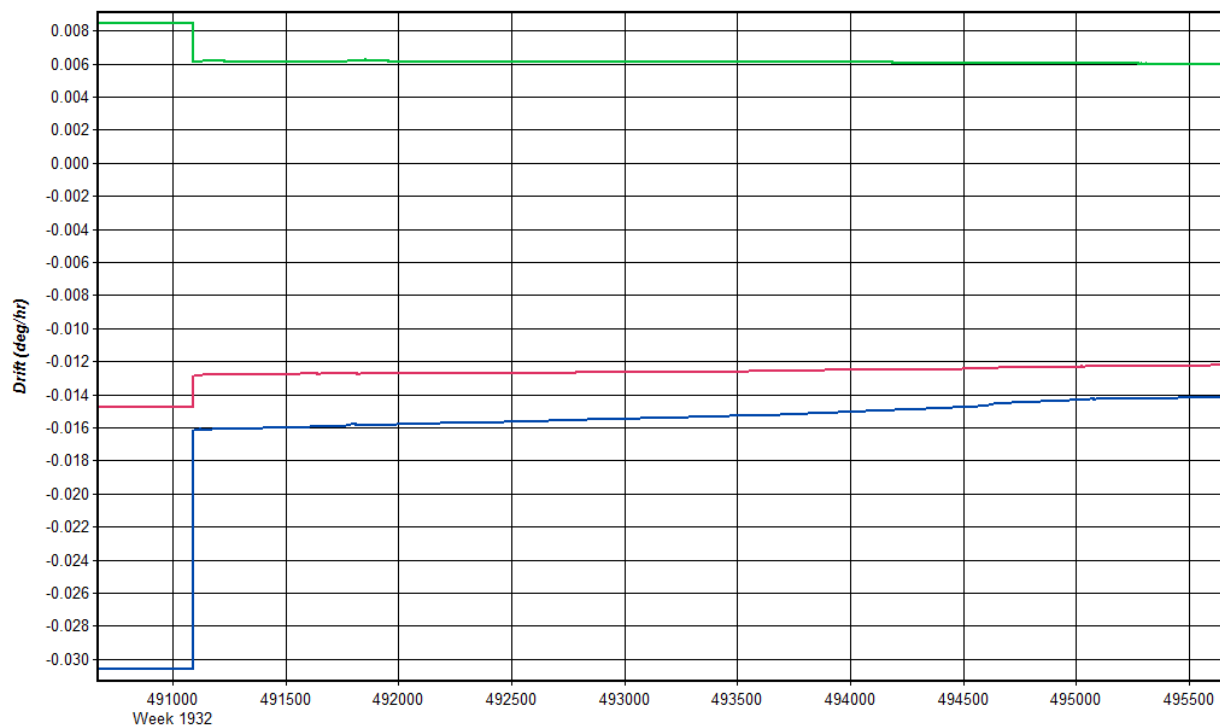
20170120_161513 [Smoothed TC Combined] - Accelerometer Bias Plot



GPS Time (TOW, GMT zone)

— Body-X — Body-Y — Body-Z

20170120_161513 [Smoothed TC Combined] - Gyro Drift Plot



GPS Time (TOW, GMT zone)

— Body-X — Body-Y — Body-Z



Processing Summary Information

Project:

N:\Production\LIDAR_Projects\17004_Suwannee_River_FL_FY17\Flight_Raw\20170120_161513\Gnssimu\20170120_161513.cfg

Solution Type: Combined

Number of Epochs:

Total in GPB file: 10000
No processed position: 7
Missing Fwd or Rev: 874
With bad C/A code: 0
With bad L1 Phase: 0

Quality Number Percentages:

Q 1: 56.3 %
Q 2: 37.7 %
Q 3: 5.9 %
Q 4: 0.1 %
Q 5: 0.0 %
Q 6: 0.0 %

Measurement RMS Values:

L1 Phase: 0.0188 (m)
C/A Code: 0.35 (m)
L1 Doppler: 0.032 (m/s)

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %
0.10 - 0.30 m: 0.0 %
0.30 - 1.00 m: 0.0 %
1.00 - 5.00 m: 0.0 %
5.00 m + over: 0.0 %

Fwd/Rev Separation RMS Values:

East: 0.007 (m)
North: 0.008 (m)
Height: 0.016 (m)

Percentages of epochs with DD_DOP over 10.00:

DOP over Tol: 0.0 %

Fwd/Rev Sep. RMS for dual FWD/REV fixes (9119 occurrences):

East: 0.007 (m)
North: 0.008 (m)
Height: 0.016 (m)

Baseline Distances:

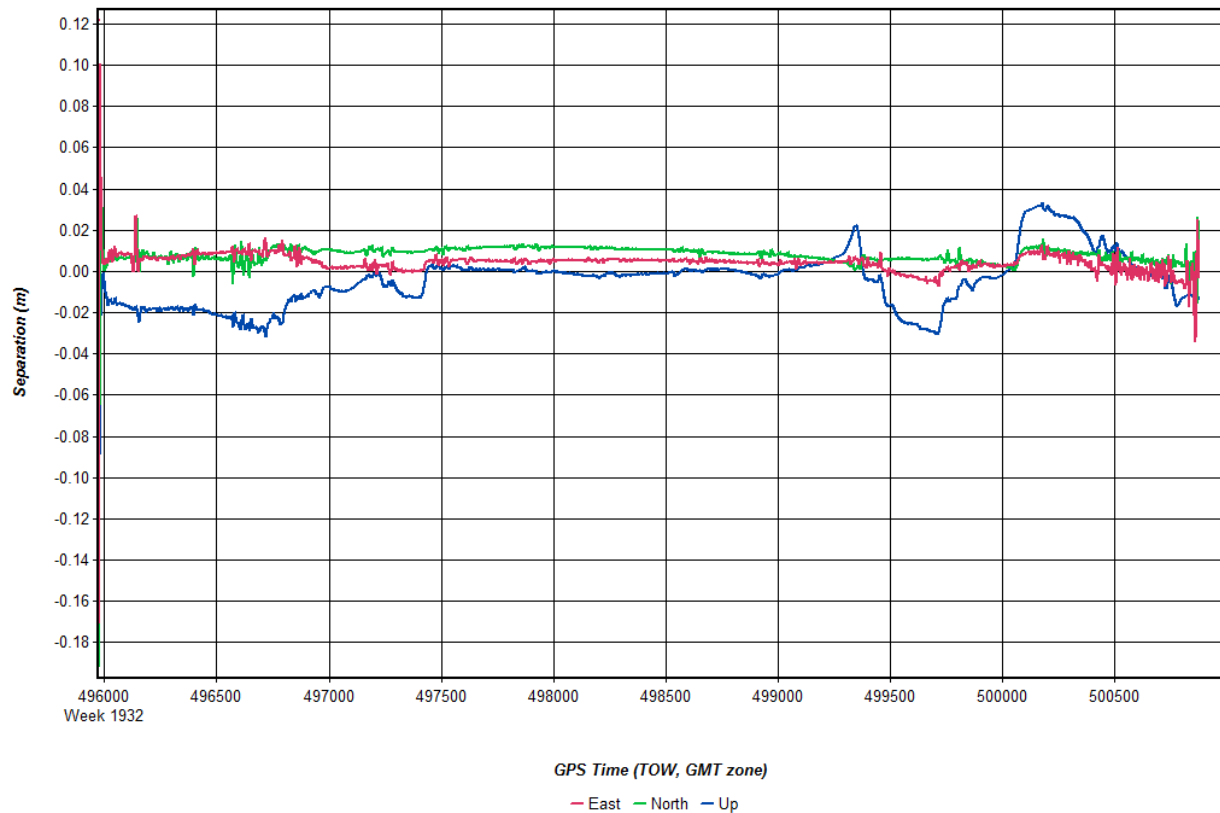
Maximum: 68.702 (km)
Minimum: 0.306 (km)
Average: 32.075 (km)
First Epoch: 1.166 (km)
Last Epoch: 8.659 (km)

Mission 2017-01-20 B

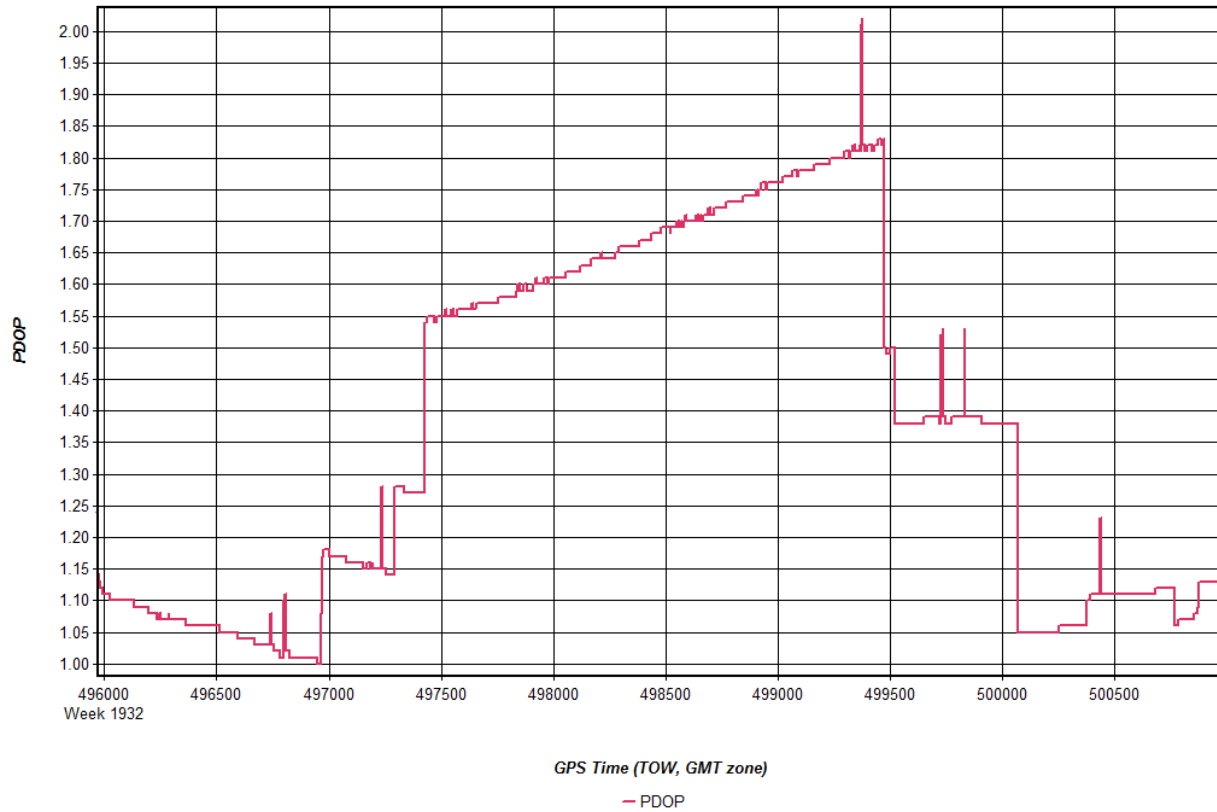
20170120_174414 [Smoothed TC Combined] - Smoothed TC Combined – Map



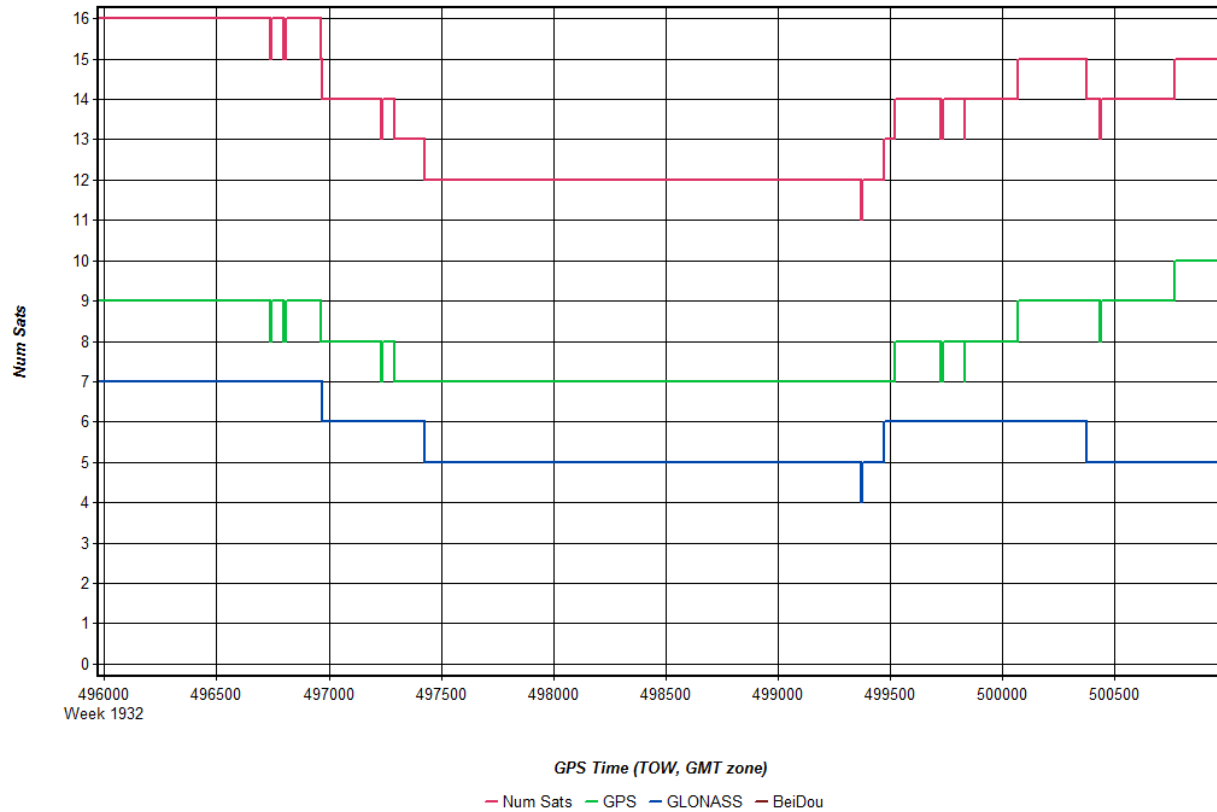
20170120_174414 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



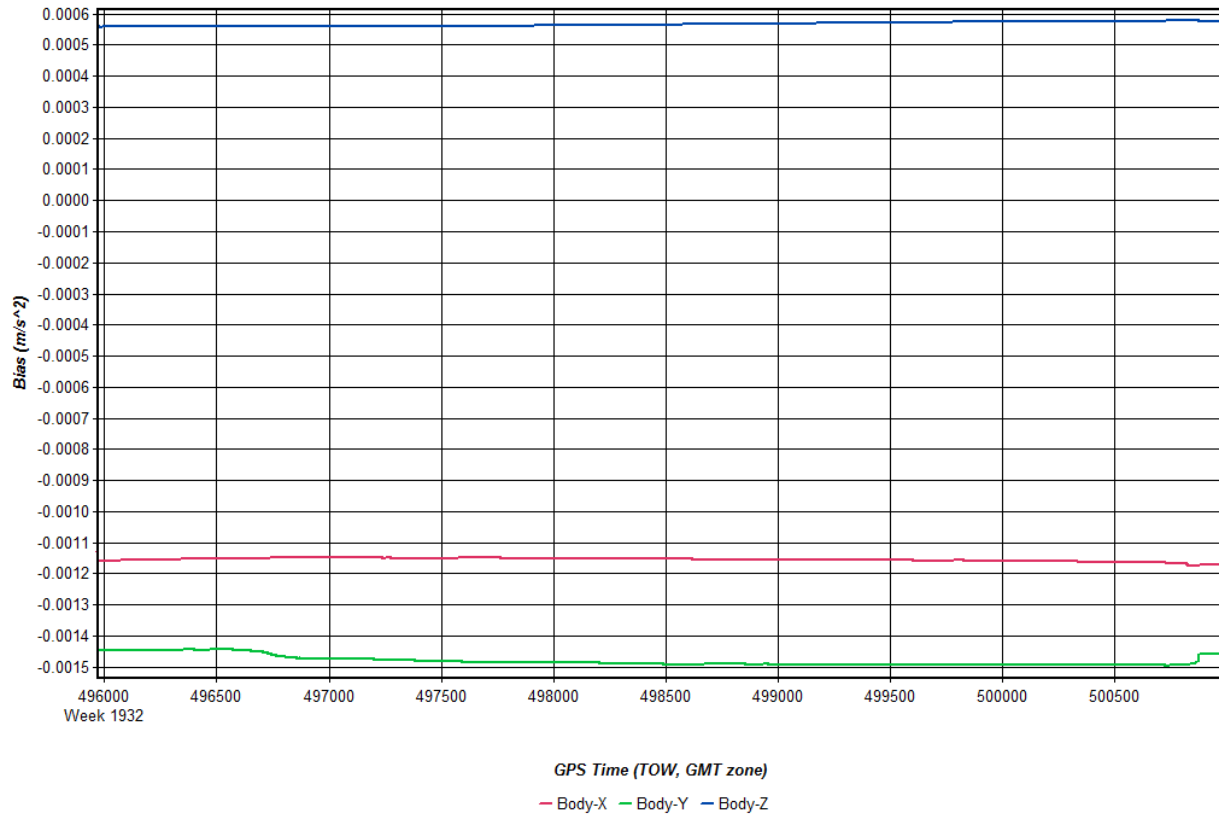
20170120_174414 [Smoothed TC Combined] - PDOP Plot



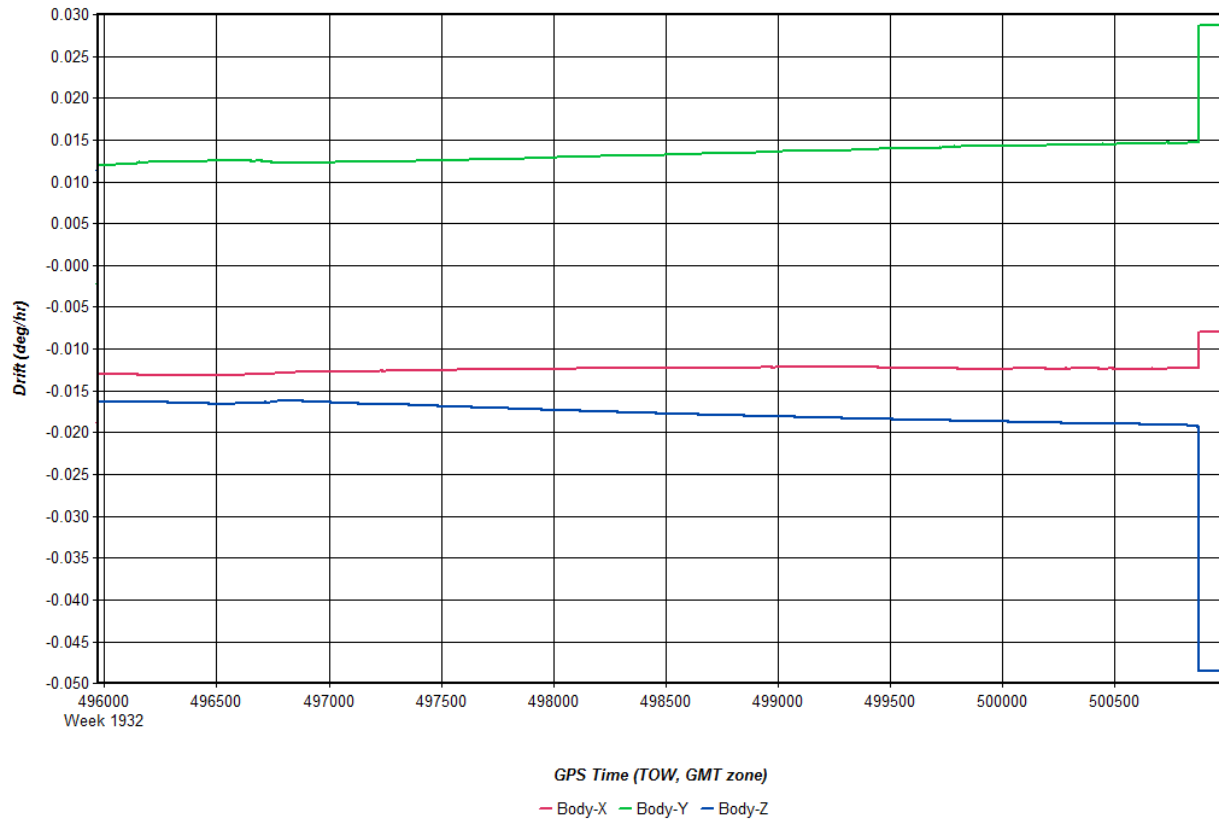
20170120_174414 [Smoothed TC Combined] - Number of Satellites Line Plot



20170120_174414 [Smoothed TC Combined] - Accelerometer Bias Plot



20170120_174414 [Smoothed TC Combined] - Gyro Drift Plot





Processing Summary Information

Project:

N:\Production\LIDAR_Projects\17004_Suwannee_River_FL_FY17\Flight_Raw\20170120_174414\Gnssimu\20170120_174414.cfg

Solution Type: Combined

Number of Epochs:

Total in GPB file: 10061
No processed position: 6
Missing Fwd or Rev: 238
With bad C/A code: 0
With bad L1 Phase: 0

Quality Number Percentages:

Q 1: 56.1 %
Q 2: 37.3 %
Q 3: 6.6 %
Q 4: 0.0 %
Q 5: 0.0 %
Q 6: 0.0 %

Measurement RMS Values:

L1 Phase: 0.0166 (m)
C/A Code: 0.29 (m)
L1 Doppler: 0.029 (m/s)

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %
0.10 - 0.30 m: 0.0 %
0.30 - 1.00 m: 0.0 %
1.00 - 5.00 m: 0.0 %
5.00 m + over: 0.0 %

Fwd/Rev Separation RMS Values:

East: 0.008 (m)
North: 0.011 (m)
Height: 0.014 (m)

Percentages of epochs with DD_DOP over 10.00:

DOP over Tol: 0.0 %

Fwd/Rev Sep. RMS for dual FWD/REV fixes (9817 occurrences):

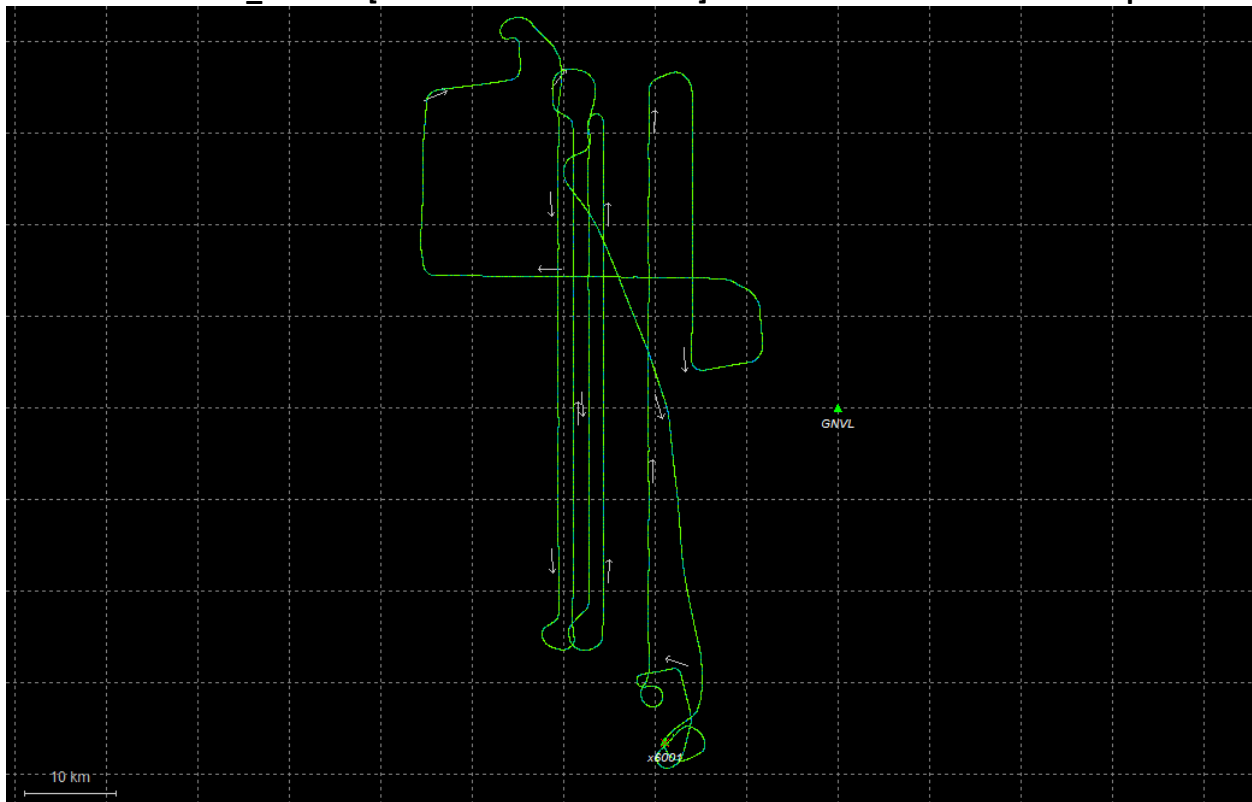
East: 0.008 (m)
North: 0.011 (m)
Height: 0.014 (m)

Baseline Distances:

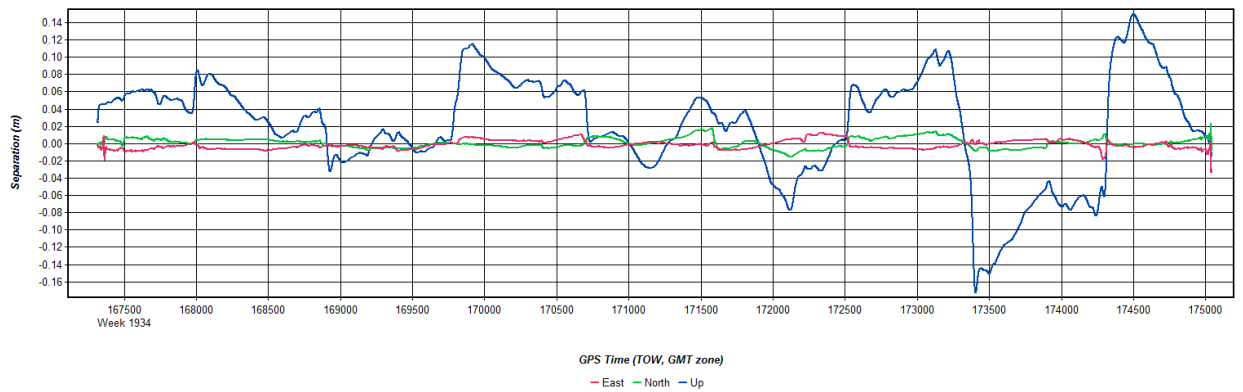
Maximum: 58.951 (km)
Minimum: 0.059 (km)
Average: 33.487 (km)
First Epoch: 15.337 (km)
Last Epoch: 0.059 (km)

Mission 2017-01-30 A

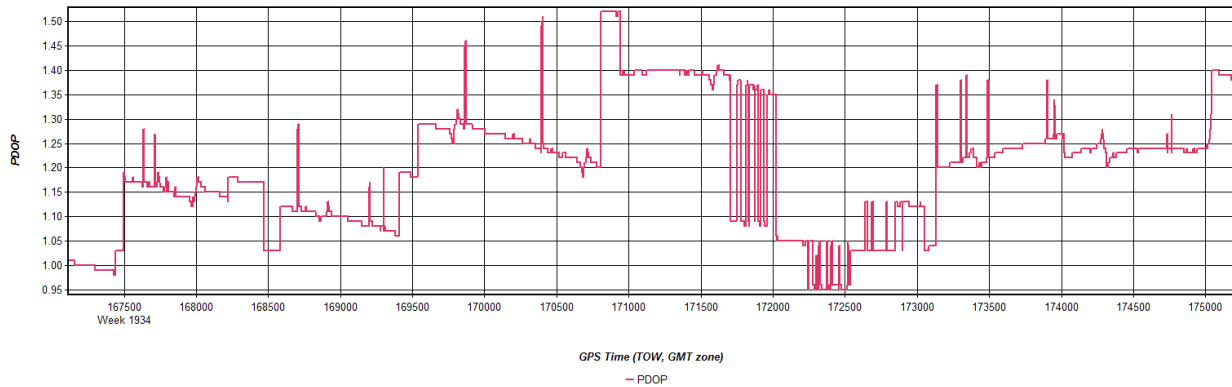
20170130_221722 [Smoothed TC Combined] - Smoothed TC Combined – Map



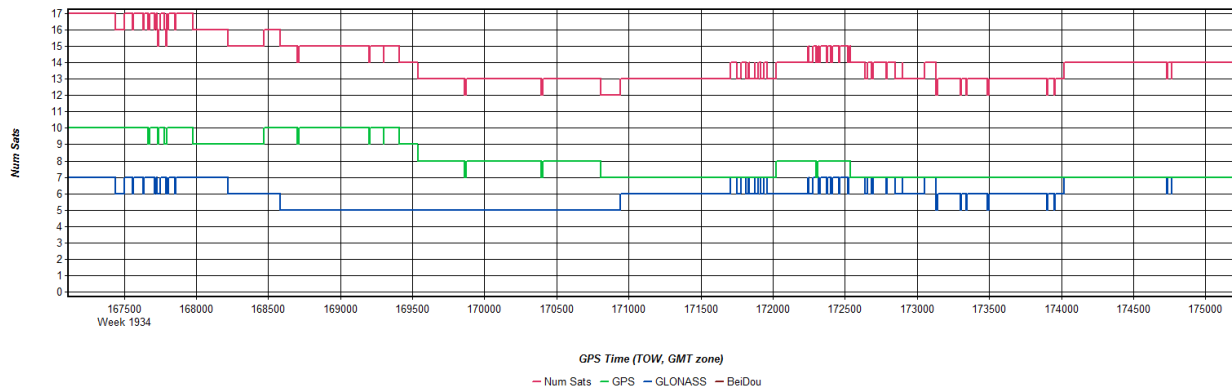
20170130_221722 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



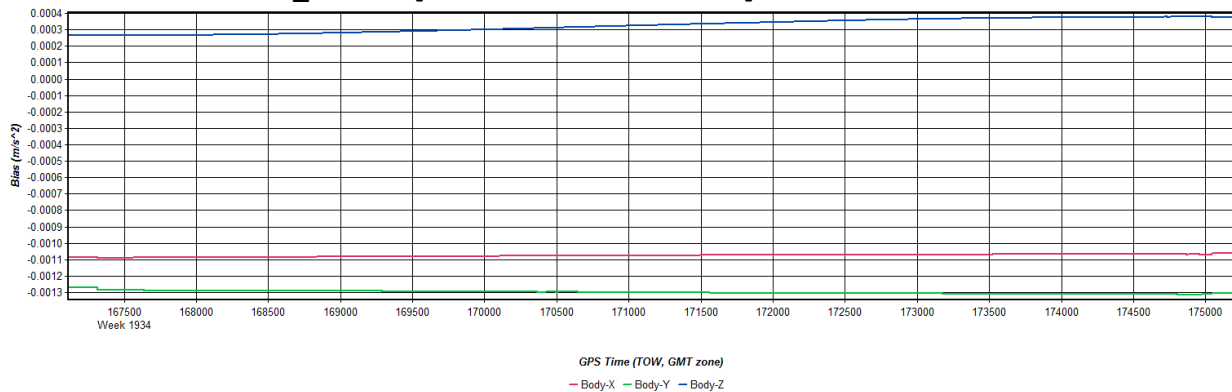
20170130_221722 [Smoothed TC Combined] - PDOP Plot



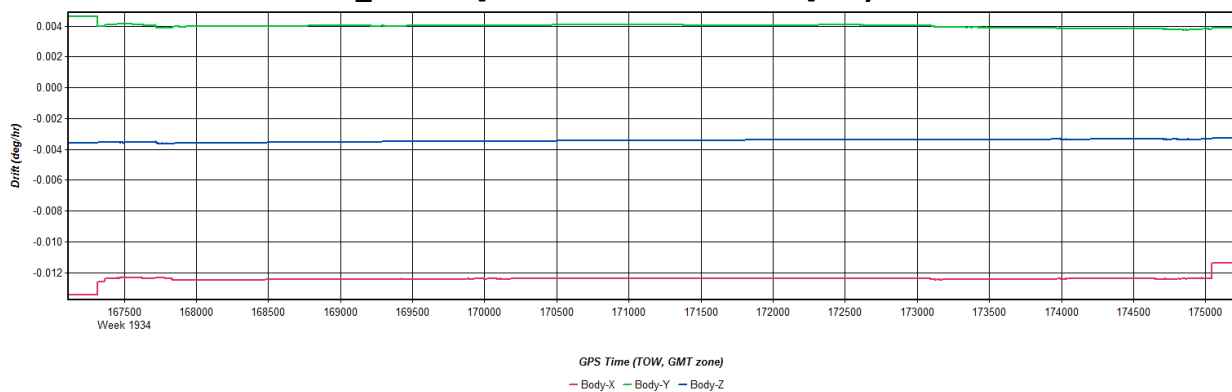
20170130_221722 [Smoothed TC Combined] - Number of Satellites Line Plot



20170130_221722 [Smoothed TC Combined] - Accelerometer Bias Plot



20170130_221722 [Smoothed TC Combined] - Gyro Drift Plot





Processing Summary Information

Project:

N:\Production\LiDAR_Projects\17004_Suwannee_River_FL_FY17\Flight_Raw\20170130_221722\GnssI
mu\20170130_221722.cfg

Solution Type: Combined

Number of Epochs:

Total in GPB file: 16198
No processed position: 7
Missing Fwd or Rev: 740
With bad C/A code: 0
With bad L1 Phase: 0

Quality Number Percentages:

Q 1: 59.3 %
Q 2: 35.8 %
Q 3: 5.0 %
Q 4: 0.0 %
Q 5: 0.0 %
Q 6: 0.0 %

Measurement RMS Values:

L1 Phase: 0.0127 (m)
C/A Code: 0.29 (m)
L1 Doppler: 0.022 (m/s)

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %
0.10 - 0.30 m: 0.0 %
0.30 - 1.00 m: 0.0 %
1.00 - 5.00 m: 0.0 %
5.00 m + over: 0.0 %

Fwd/Rev Separation RMS Values:

East: 0.005 (m)
North: 0.006 (m)
Height: 0.062 (m)

Percentages of epochs with DD_DOP over 10.00:

DOP over Tol: 0.0 %

Fwd/Rev Sep. RMS for dual FWD/REV fixes (15451 occurrences):

East: 0.005 (m)
North: 0.006 (m)
Height: 0.062 (m)

Baseline Distances:

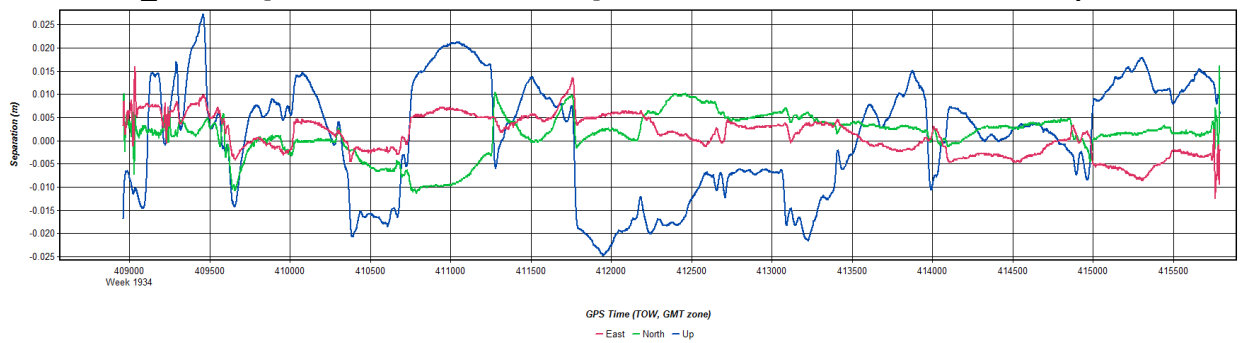
Maximum: 56.109 (km)
Minimum: 10.323 (km)
Average: 34.033 (km)
First Epoch: 39.807 (km)
Last Epoch: 40.883 (km)

Mission 2017-02-02 A

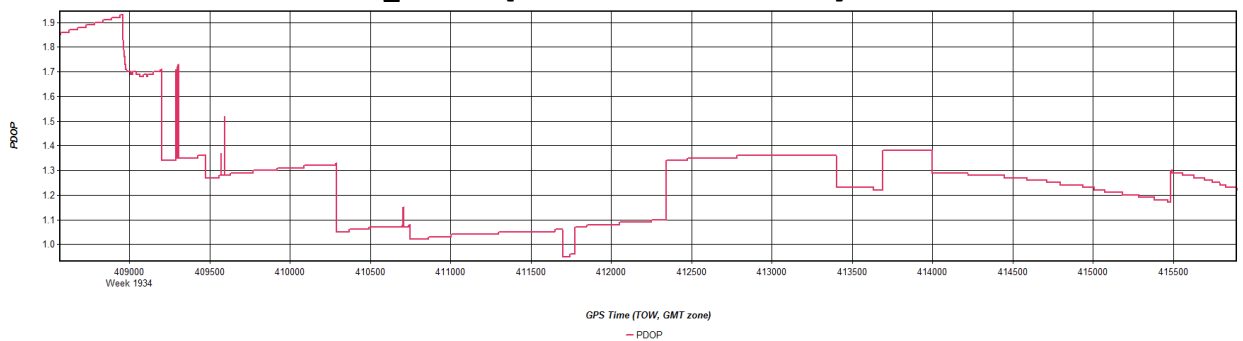
20170202_172729 [Smoothed TC Combined] - Smoothed TC Combined – Map



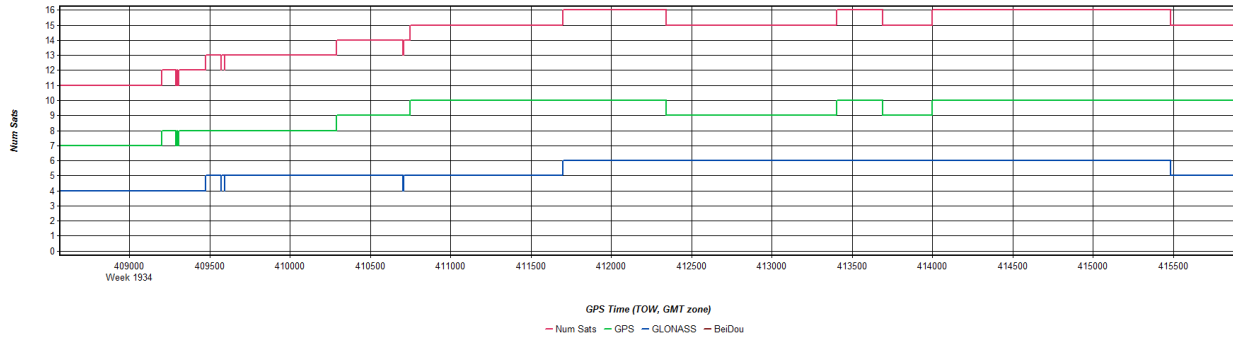
20170202_172729 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



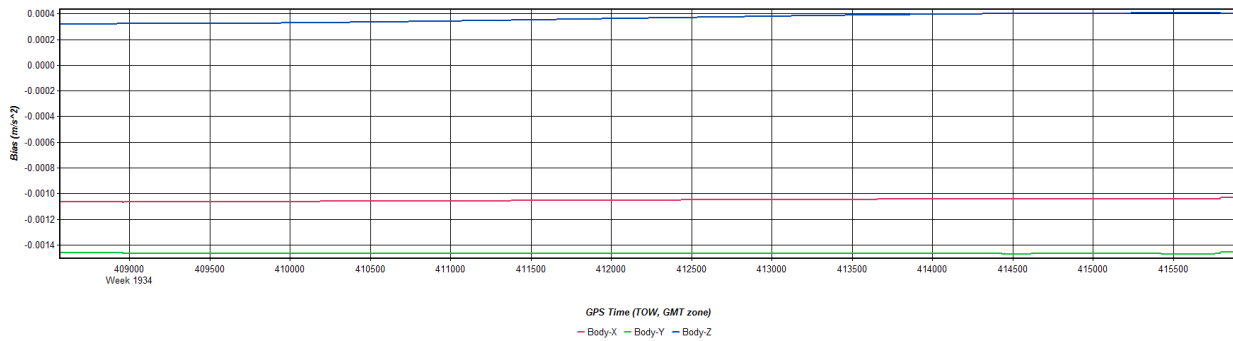
20170202_172729 [Smoothed TC Combined] - PDOP Plot



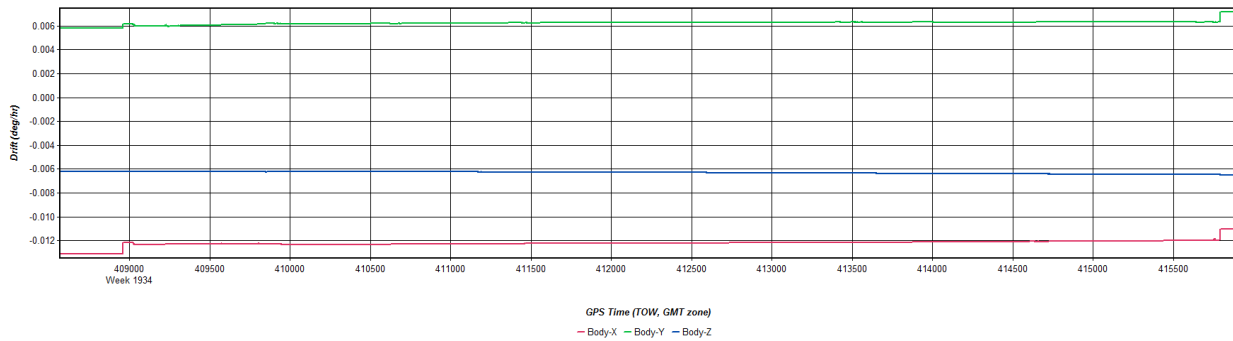
20170202_172729 [Smoothed TC Combined] - Number of Satellites Line Plot



20170202_172729 [Smoothed TC Combined] - Accelerometer Bias Plot



20170202_172729 [Smoothed TC Combined] - Gyro Drift Plot





Processing Summary Information

Project:

N:\Production\LIDAR_Projects\17004_Suwannee_River_FL_FY17\Flight_Raw\20170202_172729\Gnss\mu\20170202_172729.cfg

Solution Type: Combined

Number of Epochs:

Total in GPB file: 14677
No processed position: 6
Missing Fwd or Rev: 1012
With bad C/A code: 0
With bad L1 Phase: 0

Quality Number Percentages:

Q 1: 60.0 %
Q 2: 35.2 %
Q 3: 4.7 %
Q 4: 0.0 %
Q 5: 0.0 %
Q 6: 0.0 %

Measurement RMS Values:

L1 Phase: 0.0188 (m)
C/A Code: 0.29 (m)
L1 Doppler: 0.032 (m/s)

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %
0.10 - 0.30 m: 0.0 %
0.30 - 1.00 m: 0.0 %
1.00 - 5.00 m: 0.0 %
5.00 m + over: 0.0 %

Fwd/Rev Separation RMS Values:

East: 0.004 (m)
North: 0.005 (m)
Height: 0.012 (m)

Percentages of epochs with DD_DOP over 10.00:

DOP over Tol: 0.0 %

Fwd/Rev Sep. RMS for dual FWD/REV fixes (13659 occurrences):

East: 0.004 (m)
North: 0.005 (m)
Height: 0.012 (m)

Baseline Distances:

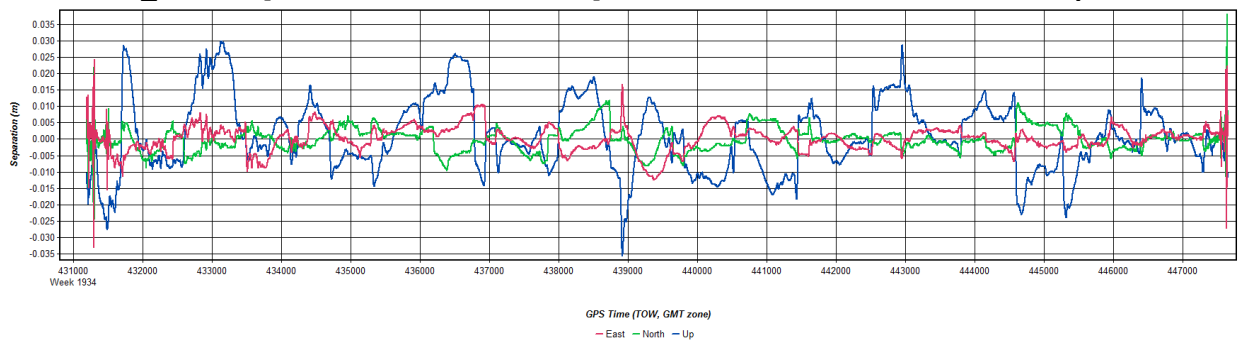
Maximum: 68.023 (km)
Minimum: 0.035 (km)
Average: 34.116 (km)
First Epoch: 0.035 (km)
Last Epoch: 0.254 (km)

Mission 2017-02-02 B

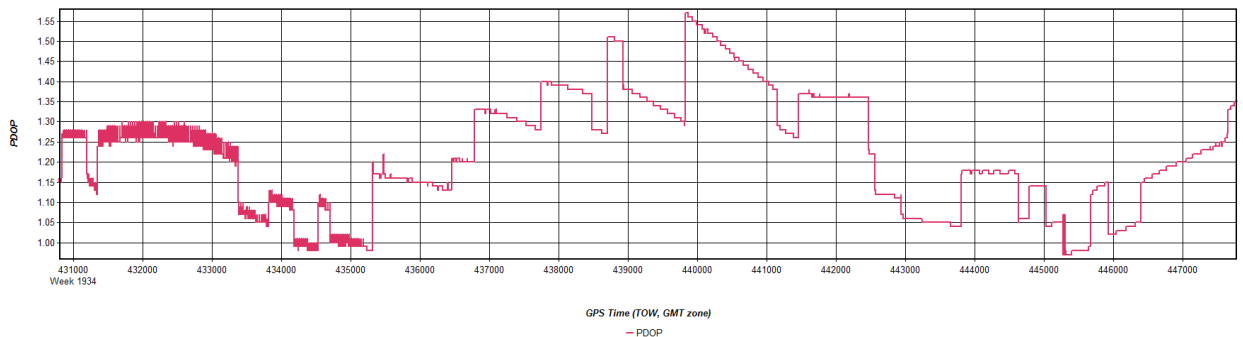
20170202_233803 [Smoothed TC Combined] - Smoothed TC Combined – Map



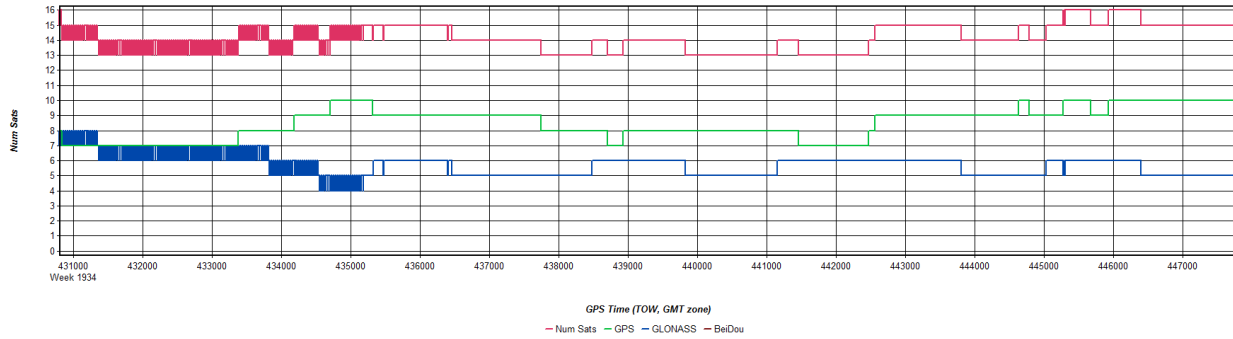
20170202_233803 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



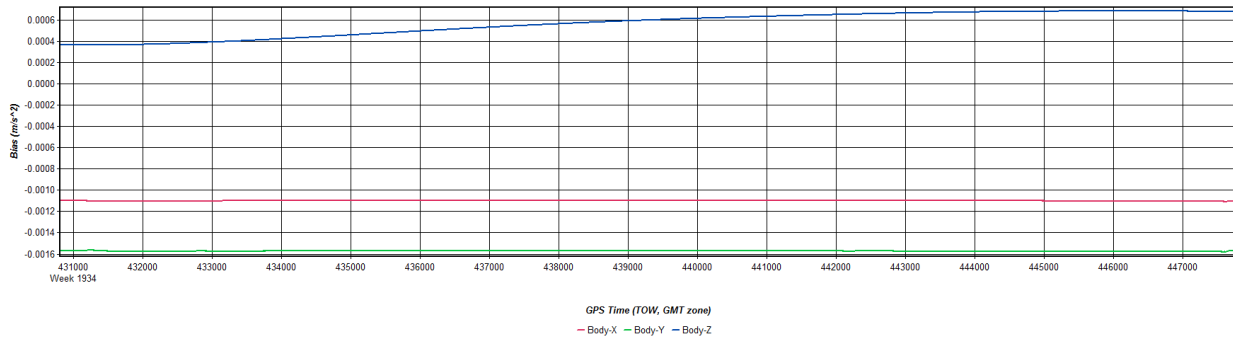
20170202_233803 [Smoothed TC Combined] - PDOP Plot



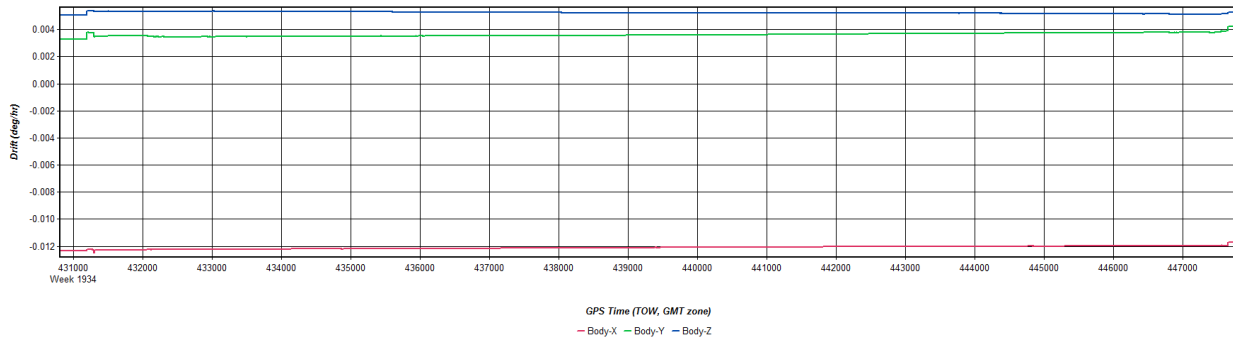
20170202_233803 [Smoothed TC Combined] - Number of Satellites Line Plot



20170202_233803 [Smoothed TC Combined] - Accelerometer Bias Plot



20170202_233803 [Smoothed TC Combined] - Gyro Drift Plot





Processing Summary Information

Project:

N:\Production\LiDAR_Projects\17004_Suwannee_River_FL_FY17\Flight_Raw\20170202_233803\GnssImu\20170202_233803.cfg

Solution Type: Combined

Number of Epochs:

Total in GPB file:	33987
No processed position:	6
Missing Fwd or Rev:	1054
With bad C/A code:	0
With bad L1 Phase:	0

Quality Number Percentages:

Q 1:	59.7 %
Q 2:	36.0 %
Q 3:	4.3 %
Q 4:	0.0 %
Q 5:	0.0 %
Q 6:	0.0 %

Measurement RMS Values:

L1 Phase:	0.0146 (m)
C/A Code:	0.32 (m)
L1 Doppler:	0.028 (m/s)

Position Standard Deviation Percentages:

0.00 - 0.10 m:	100.0 %
0.10 - 0.30 m:	0.0 %
0.30 - 1.00 m:	0.0 %
1.00 - 5.00 m:	0.0 %
5.00 m + over:	0.0 %

Fwd/Rev Separation RMS Values:

East:	0.004 (m)
North:	0.004 (m)
Height:	0.011 (m)

Percentages of epochs with DD_DOP over 10.00:

DOP over Tol: 0.0 %

Fwd/Rev Sep. RMS for dual FWD/REV fixes (32927 occurrences):

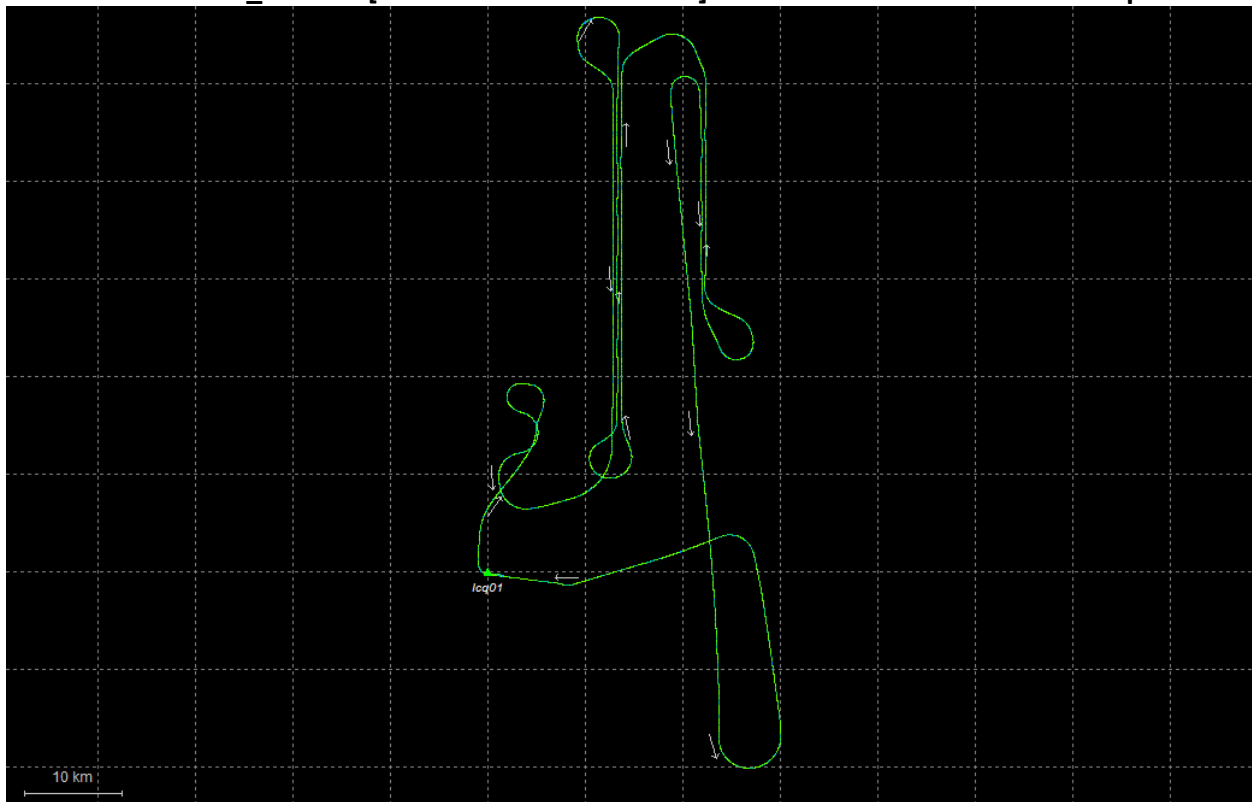
East:	0.004 (m)
North:	0.004 (m)
Height:	0.011 (m)

Baseline Distances:

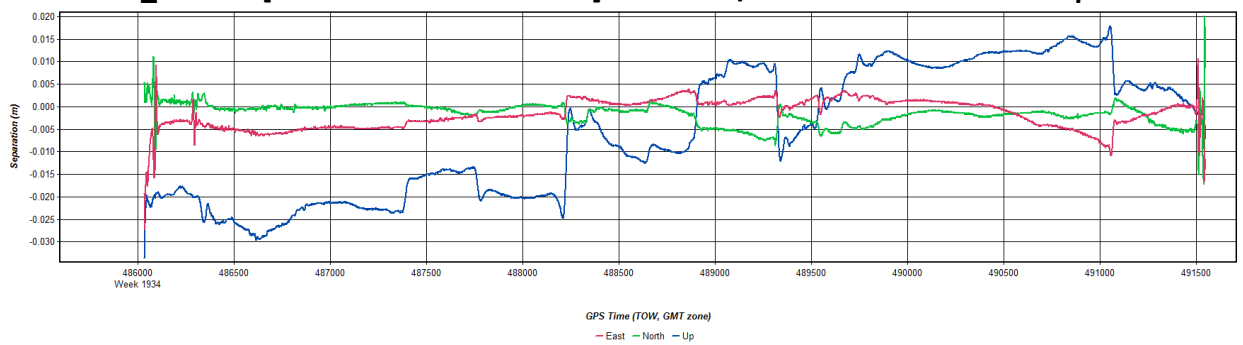
Maximum:	70.453 (km)
Minimum:	0.052 (km)
Average:	42.495 (km)
First Epoch:	0.094 (km)
Last Epoch:	0.095 (km)

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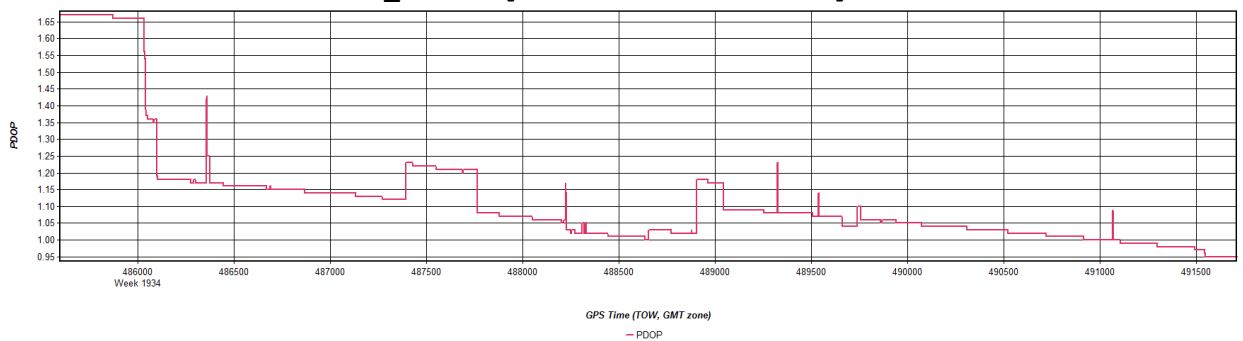
20170203_145121 [Smoothed TC Combined] - Smoothed TC Combined – Map



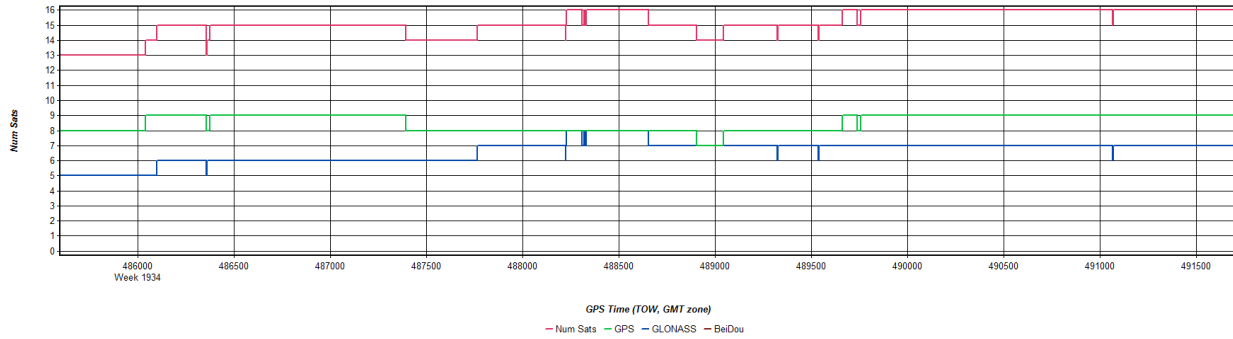
20170203_145121 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



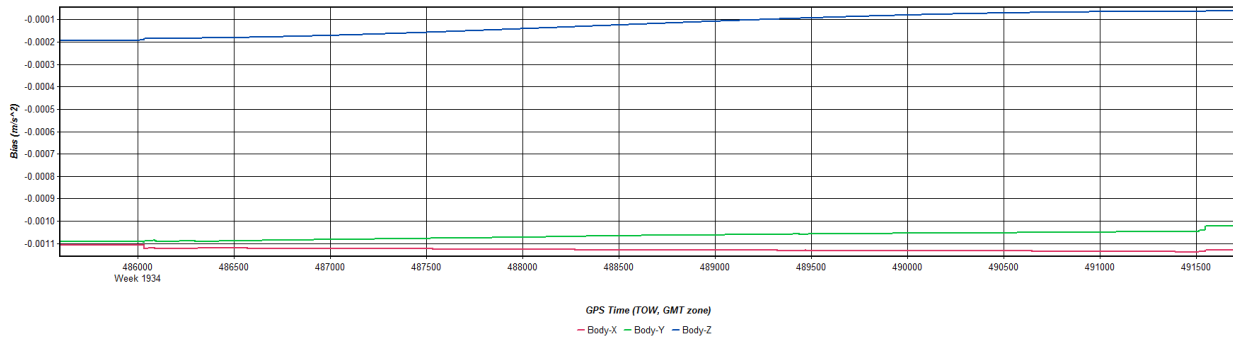
20170203_145121 [Smoothed TC Combined] - PDOP Plot



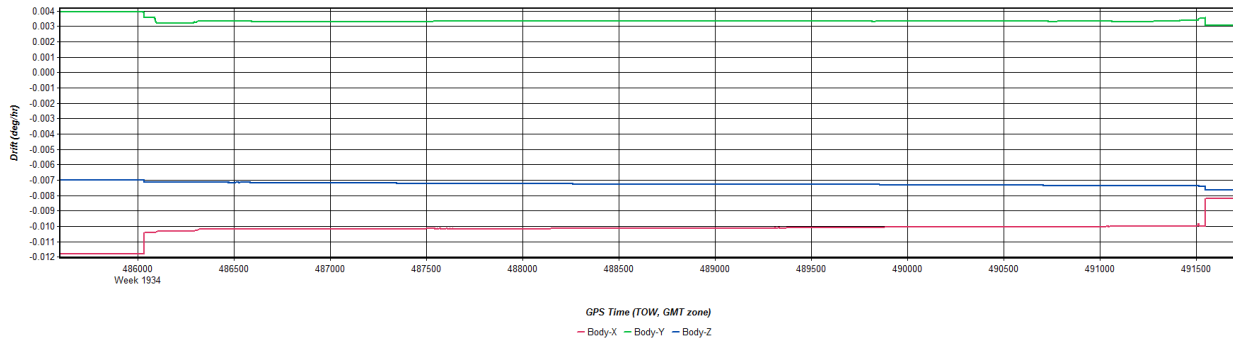
20170203_145121 [Smoothed TC Combined] - Number of Satellites Line Plot



20170203_145121 [Smoothed TC Combined] - Accelerometer Bias Plot



20170203_145121 [Smoothed TC Combined] - Gyro Drift Plot





Processing Summary Information

Project:

N:\Production\LIDAR_Projects\17004_Suwannee_River_FL_FY17\Flight_Raw\20170203_145121\Gnss\mu\20170203_145121.cfg

Solution Type: Combined

Number of Epochs:

Total in GPB file: 12251
No processed position: 6
Missing Fwd or Rev: 1216
With bad C/A code: 0
With bad L1 Phase: 0

Quality Number Percentages:

Q 1: 60.7 %
Q 2: 34.7 %
Q 3: 4.5 %
Q 4: 0.0 %
Q 5: 0.0 %
Q 6: 0.0 %

Measurement RMS Values:

L1 Phase: 0.0163 (m)
C/A Code: 0.34 (m)
L1 Doppler: 0.029 (m/s)

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %
0.10 - 0.30 m: 0.0 %
0.30 - 1.00 m: 0.0 %
1.00 - 5.00 m: 0.0 %
5.00 m + over: 0.0 %

Fwd/Rev Separation RMS Values:

East: 0.004 (m)
North: 0.003 (m)
Height: 0.015 (m)

Percentages of epochs with DD_DOP over 10.00:

DOP over Tol: 0.0 %

Fwd/Rev Sep. RMS for dual FWD/REV fixes (11029 occurrences):

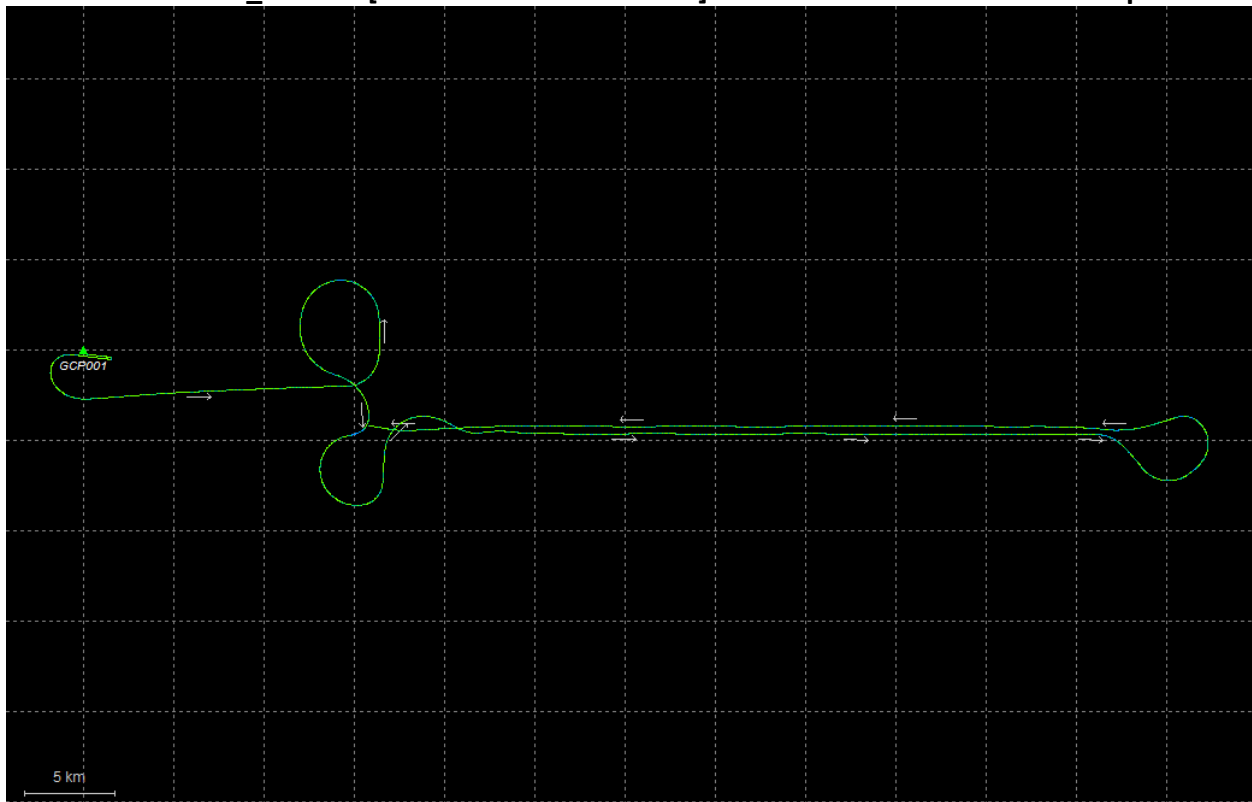
East: 0.004 (m)
North: 0.003 (m)
Height: 0.015 (m)

Baseline Distances:

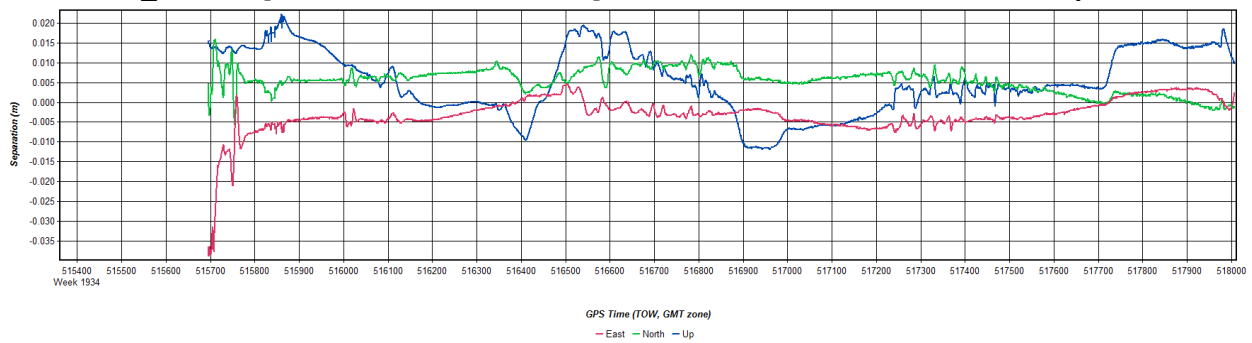
Maximum: 57.562 (km)
Minimum: 0.050 (km)
Average: 26.096 (km)
First Epoch: 0.093 (km)
Last Epoch: 0.265 (km)

Mission 2017-02-03 B

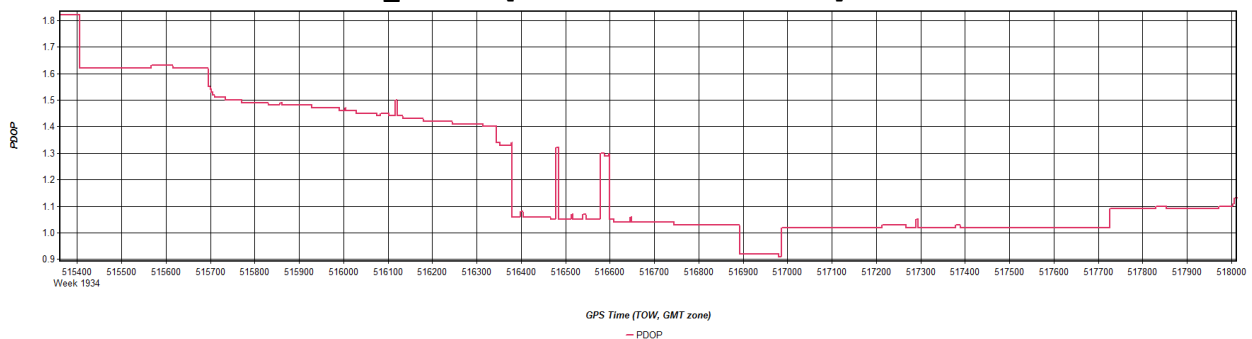
20170203_230730 [Smoothed TC Combined] - Smoothed TC Combined – Map



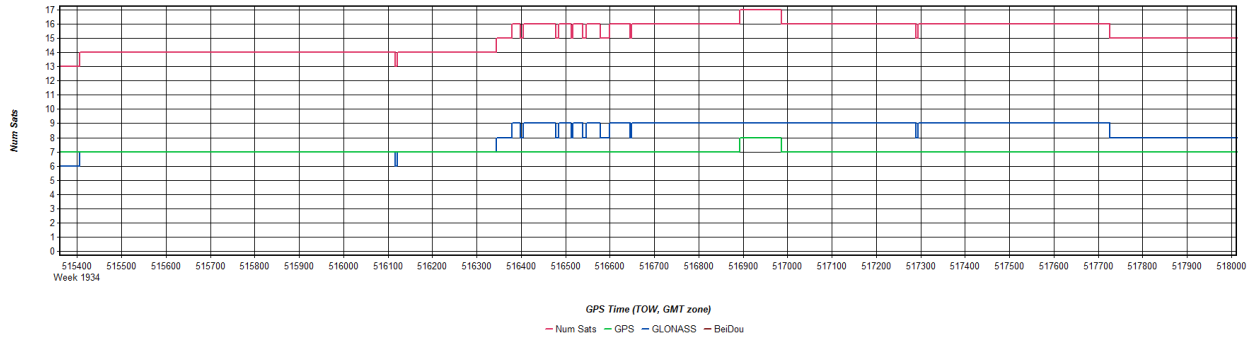
20170203_230730 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



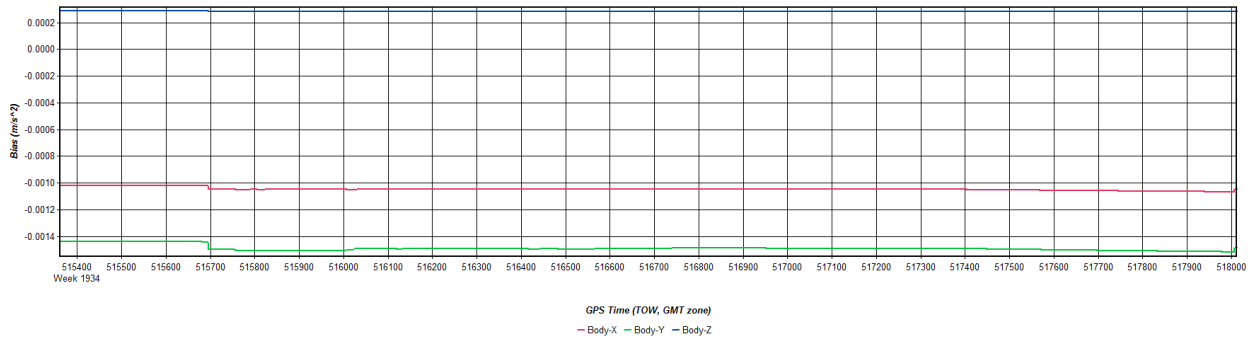
20170203_230730 [Smoothed TC Combined] - PDOP Plot



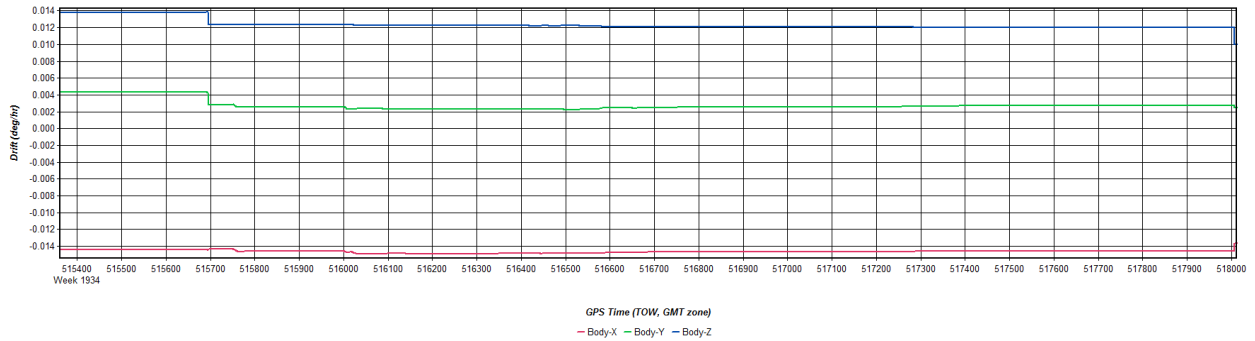
20170203_230730 [Smoothed TC Combined] - Number of Satellites Line Plot



20170203_230730 [Smoothed TC Combined] - Accelerometer Bias Plot



20170203_230730 [Smoothed TC Combined] - Gyro Drift Plot





Processing Summary Information

Project:

N:\Production\LIDAR_Projects\17004_Suwannee_River_FL_FY17\Flight_Raw\20170203_230730\Gnssimu\20170203_230730.cfg

Solution Type: Combined

Number of Epochs:

Total in GPB file: 5314
No processed position: 7
Missing Fwd or Rev: 684
With bad C/A code: 0
With bad L1 Phase: 0

Quality Number Percentages:

Q 1: 58.0 %
Q 2: 34.9 %
Q 3: 7.0 %
Q 4: 0.0 %
Q 5: 0.0 %
Q 6: 0.0 %

Measurement RMS Values:

L1 Phase: 0.0151 (m)
C/A Code: 0.32 (m)
L1 Doppler: 0.029 (m/s)

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %
0.10 - 0.30 m: 0.0 %
0.30 - 1.00 m: 0.0 %
1.00 - 5.00 m: 0.0 %
5.00 m + over: 0.0 %

Fwd/Rev Separation RMS Values:

East: 0.005 (m)
North: 0.006 (m)
Height: 0.010 (m)

Percentages of epochs with DD_DOP over 10.00:

DOP over Tol: 0.0 %

Fwd/Rev Sep. RMS for dual FWD/REV fixes (4623 occurrences):

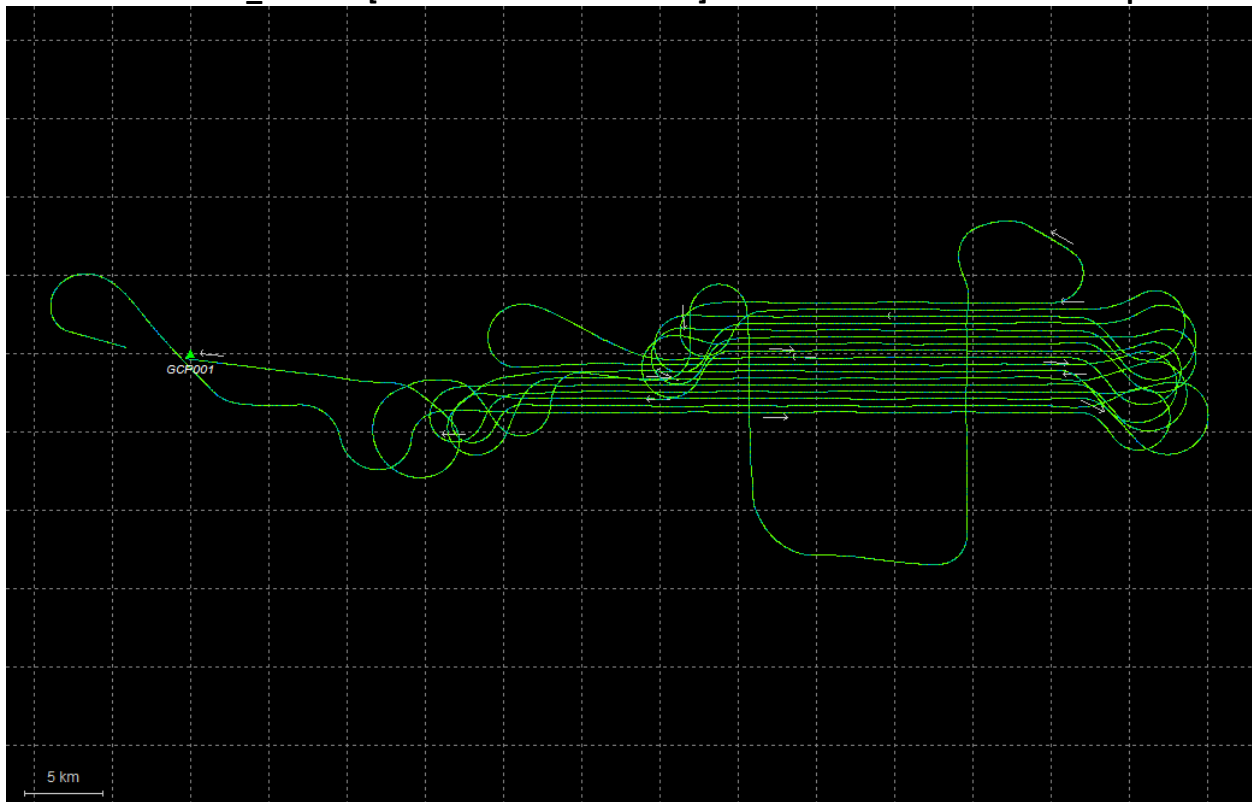
East: 0.005 (m)
North: 0.006 (m)
Height: 0.010 (m)

Baseline Distances:

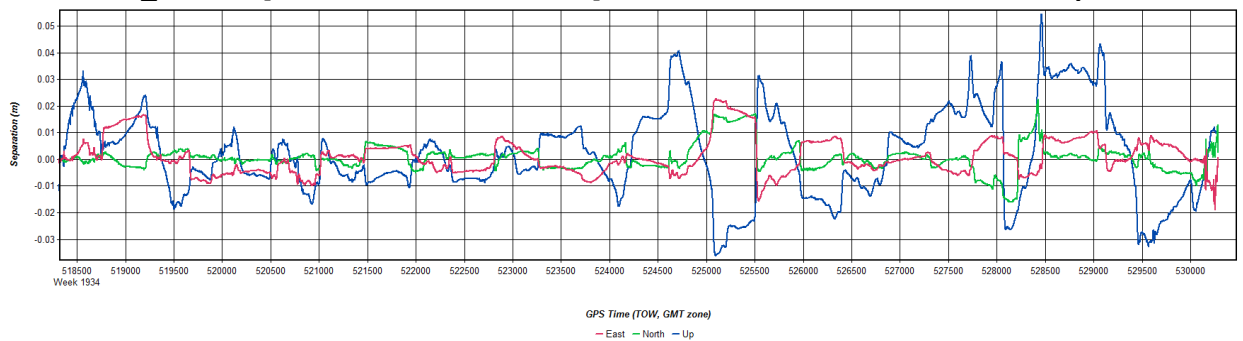
Maximum: 61.926 (km)
Minimum: 0.046 (km)
Average: 22.375 (km)
First Epoch: 0.093 (km)
Last Epoch: 16.166 (km)

Mission 2017-02-03 C

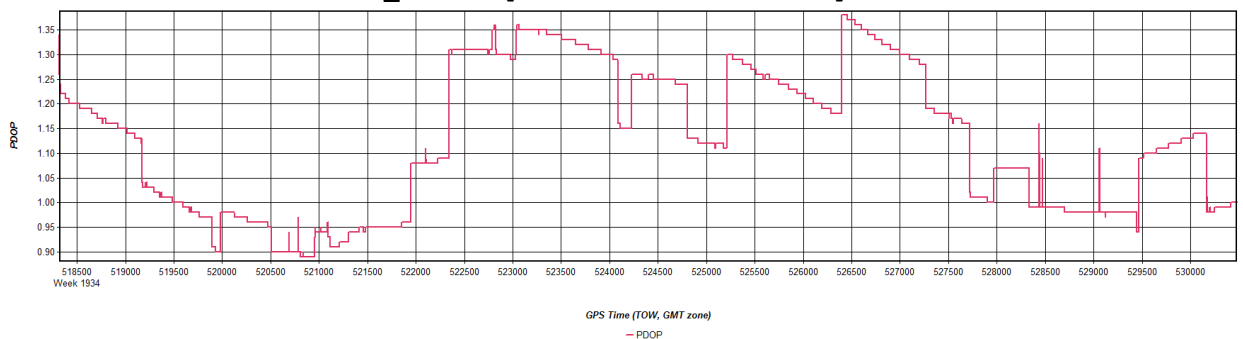
20170203_235641 [Smoothed TC Combined] - Smoothed TC Combined – Map



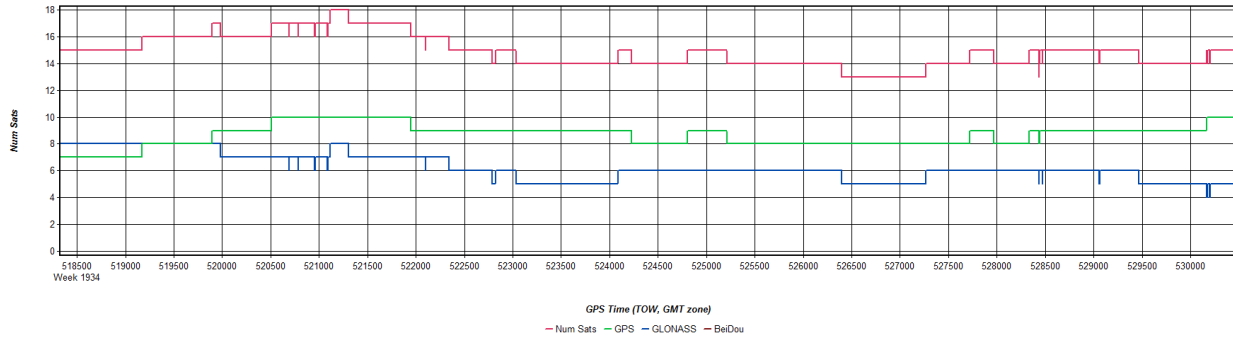
20170203_235641 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



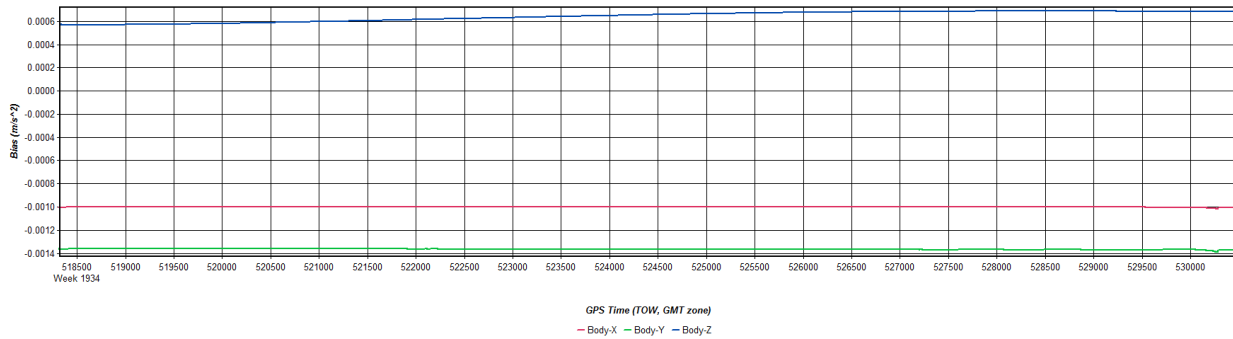
20170203_235641 [Smoothed TC Combined] - PDOP Plot



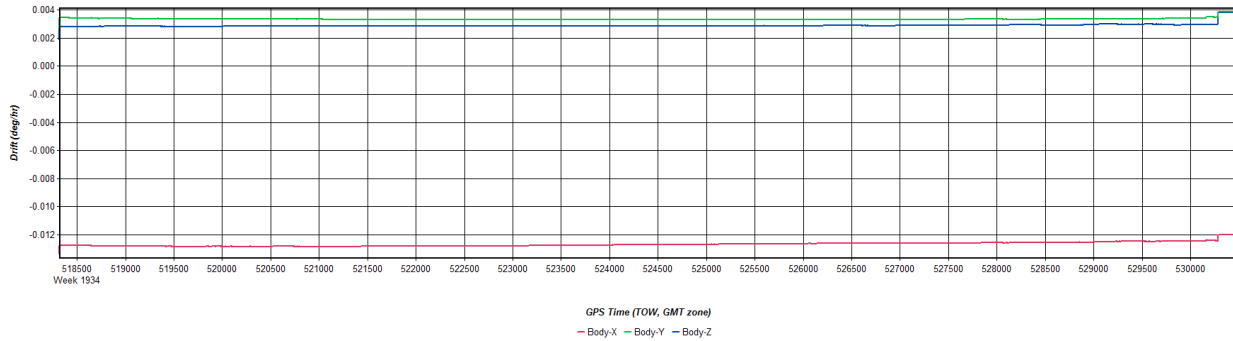
20170203_235641 [Smoothed TC Combined] - Number of Satellites Line Plot



20170203_235641 [Smoothed TC Combined] - Accelerometer Bias Plot



20170203_235641 [Smoothed TC Combined] - Gyro Drift Plot





Processing Summary Information

Project:

N:\Production\LIDAR_Projects\17004_Suwannee_River_FL_FY17\Flight_Raw\20170203_235641\Gnss\mu\20170203_235641.cfg

Solution Type: Combined

Number of Epochs:

Total in GPB file: 24341
No processed position: 6
Missing Fwd or Rev: 396
With bad C/A code: 0
With bad L1 Phase: 0

Quality Number Percentages:

Q 1: 58.4 %
Q 2: 37.0 %
Q 3: 4.6 %
Q 4: 0.0 %
Q 5: 0.0 %
Q 6: 0.0 %

Measurement RMS Values:

L1 Phase: 0.0180 (m)
C/A Code: 0.30 (m)
L1 Doppler: 0.029 (m/s)

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %
0.10 - 0.30 m: 0.0 %
0.30 - 1.00 m: 0.0 %
1.00 - 5.00 m: 0.0 %
5.00 m + over: 0.0 %

Fwd/Rev Separation RMS Values:

East: 0.007 (m)
North: 0.005 (m)
Height: 0.016 (m)

Percentages of epochs with DD_DOP over 10.00:

DOP over Tol: 0.0 %

Fwd/Rev Sep. RMS for dual FWD/REV fixes (23939 occurrences):

East: 0.007 (m)
North: 0.005 (m)
Height: 0.016 (m)

Baseline Distances:

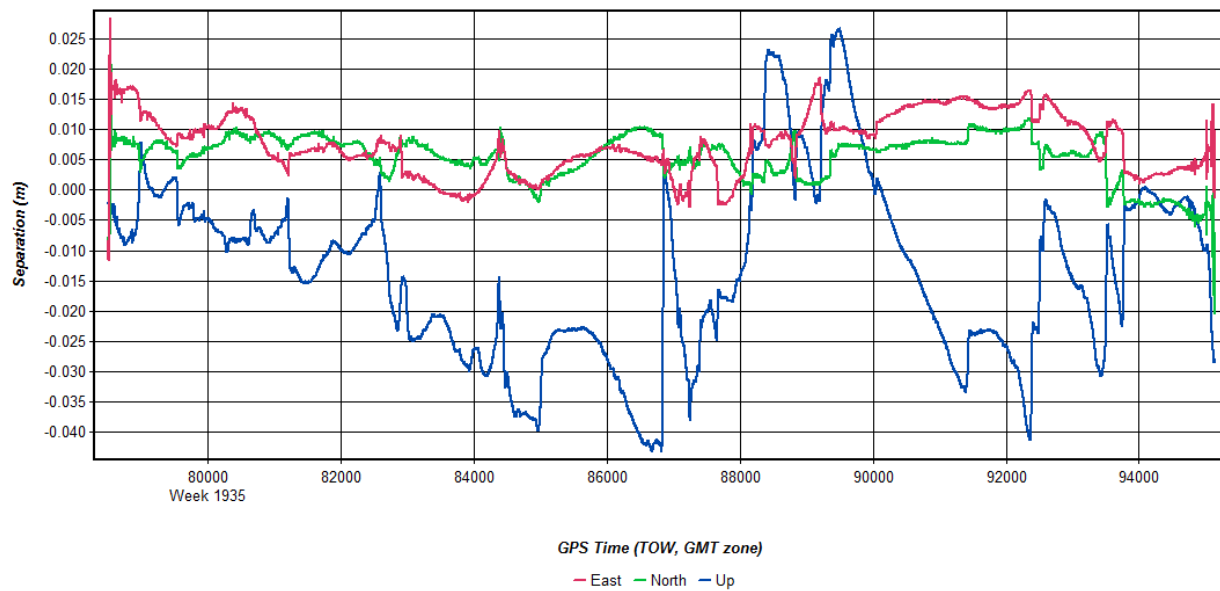
Maximum: 65.209 (km)
Minimum: 0.064 (km)
Average: 38.407 (km)
First Epoch: 4.163 (km)
Last Epoch: 0.095 (km)

Mission 2017-02-05 A

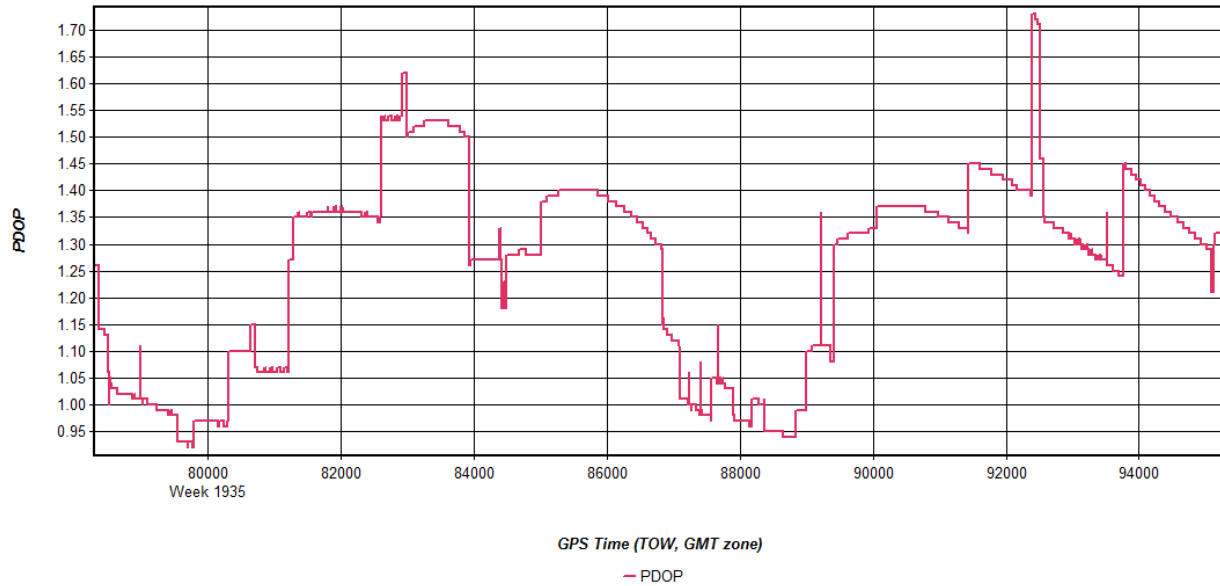
20170205_214045 [Smoothed TC Combined] - Smoothed TC Combined – Map



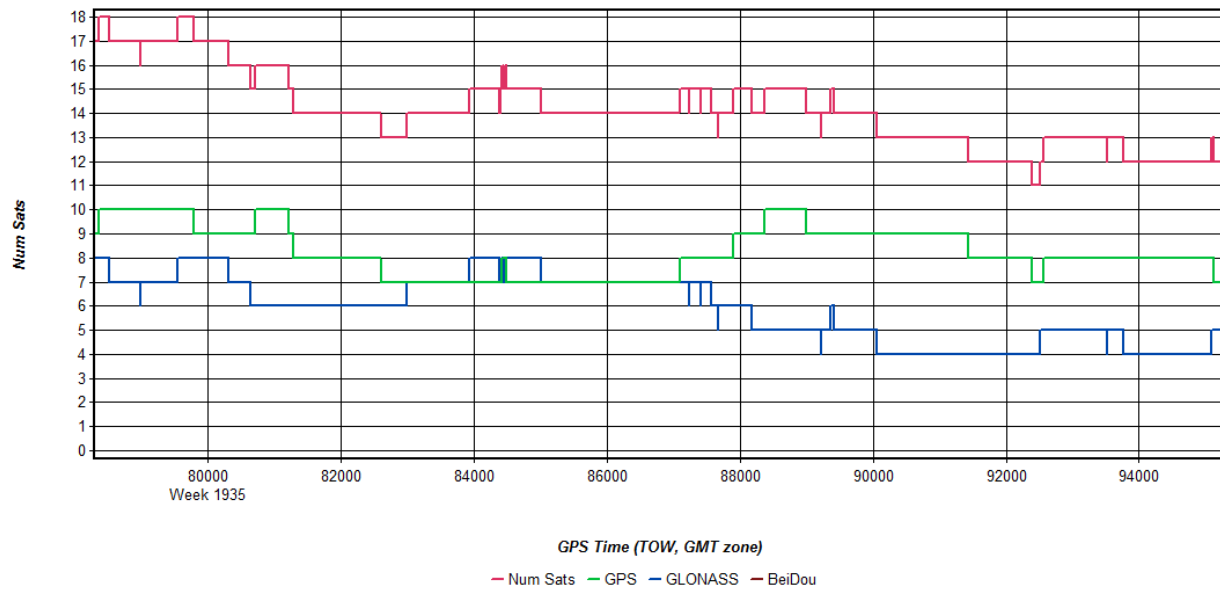
20170205_214045 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



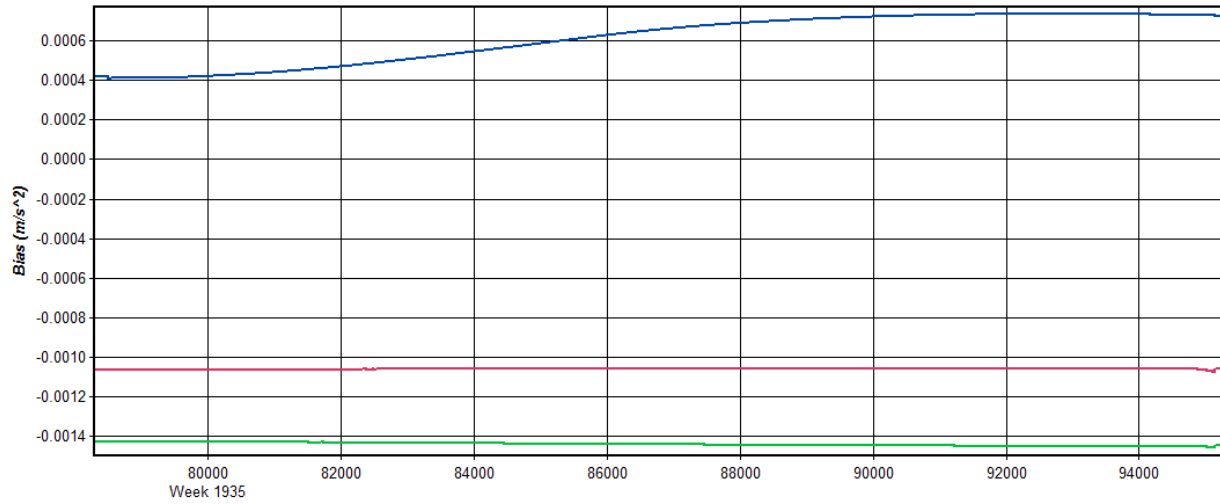
20170205_214045 [Smoothed TC Combined] - PDOP Plot



20170205_214045 [Smoothed TC Combined] - Number of Satellites Line Plot



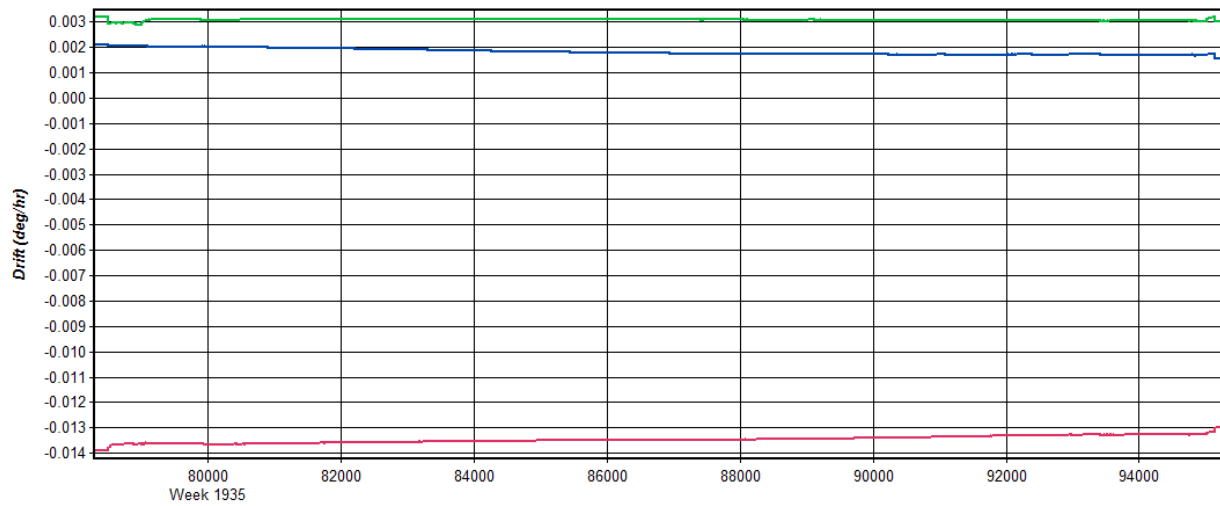
20170205_214045 [Smoothed TC Combined] - Accelerometer Bias Plot



GPS Time (TOW, GMT zone)

— Body-X — Body-Y — Body-Z

20170205_214045 [Smoothed TC Combined] - Gyro Drift Plot



GPS Time (TOW, GMT zone)

— Body-X — Body-Y — Body-Z



Processing Summary Information

Project:

N:\Production\LIDAR_Projects\17004_Suwannee_River_FL_FY17\Flight_Raw\20170205_214045\Gnss\mu\20170205_214045.cfg

Solution Type: Combined

Number of Epochs:

Total in GPB file: 34104
No processed position: 7
Missing Fwd or Rev: 820
With bad C/A code: 0
With bad L1 Phase: 0

Quality Number Percentages:

Q 1: 59.8 %
Q 2: 36.0 %
Q 3: 4.3 %
Q 4: 0.0 %
Q 5: 0.0 %
Q 6: 0.0 %

Measurement RMS Values:

L1 Phase: 0.0167 (m)
C/A Code: 0.31 (m)
L1 Doppler: 0.028 (m/s)

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %
0.10 - 0.30 m: 0.0 %
0.30 - 1.00 m: 0.0 %
1.00 - 5.00 m: 0.0 %
5.00 m + over: 0.0 %

Fwd/Rev Separation RMS Values:

East: 0.009 (m)
North: 0.007 (m)
Height: 0.020 (m)

Percentages of epochs with DD_DOP over 10.00:

DOP over Tol: 0.0 %

Fwd/Rev Sep. RMS for dual FWD/REV fixes (33277 occurrences):

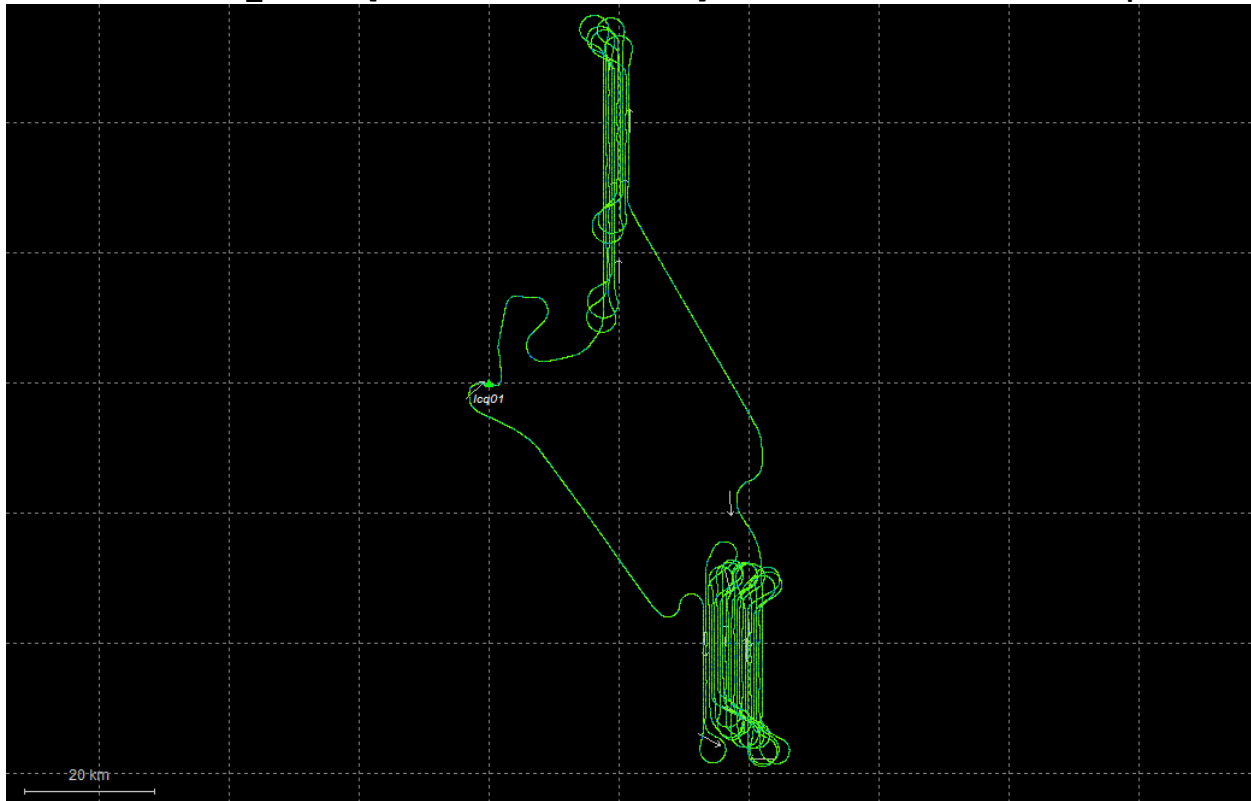
East: 0.009 (m)
North: 0.007 (m)
Height: 0.020 (m)

Baseline Distances:

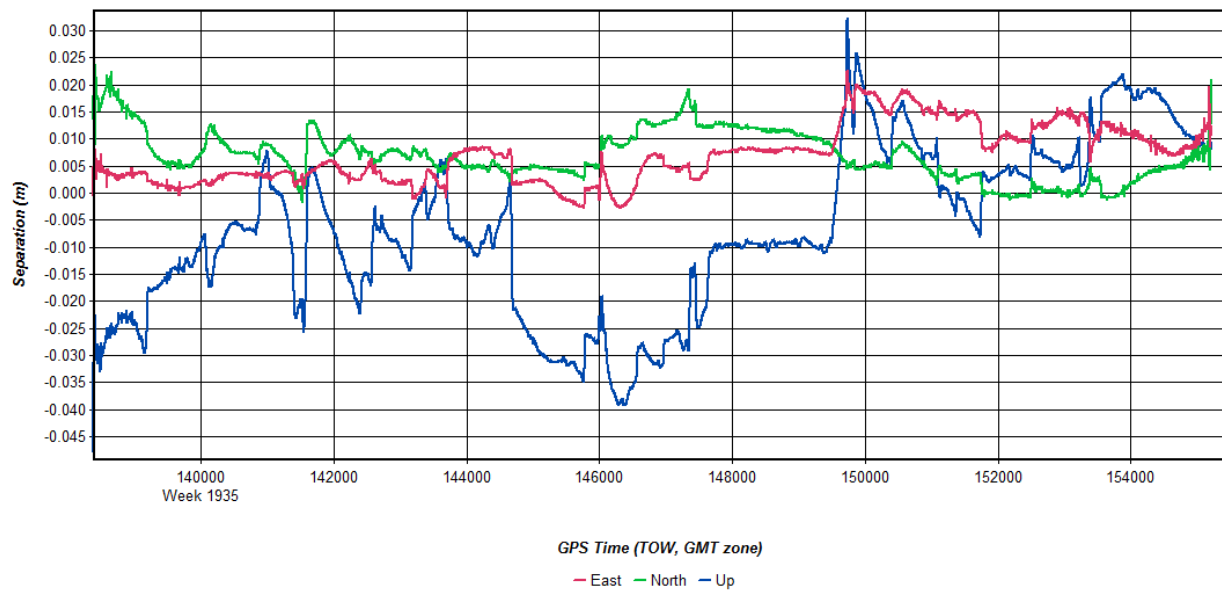
Maximum: 82.801 (km)
Minimum: 0.070 (km)
Average: 46.960 (km)
First Epoch: 1.590 (km)
Last Epoch: 0.095 (km)

Mission 2017-02-06 A

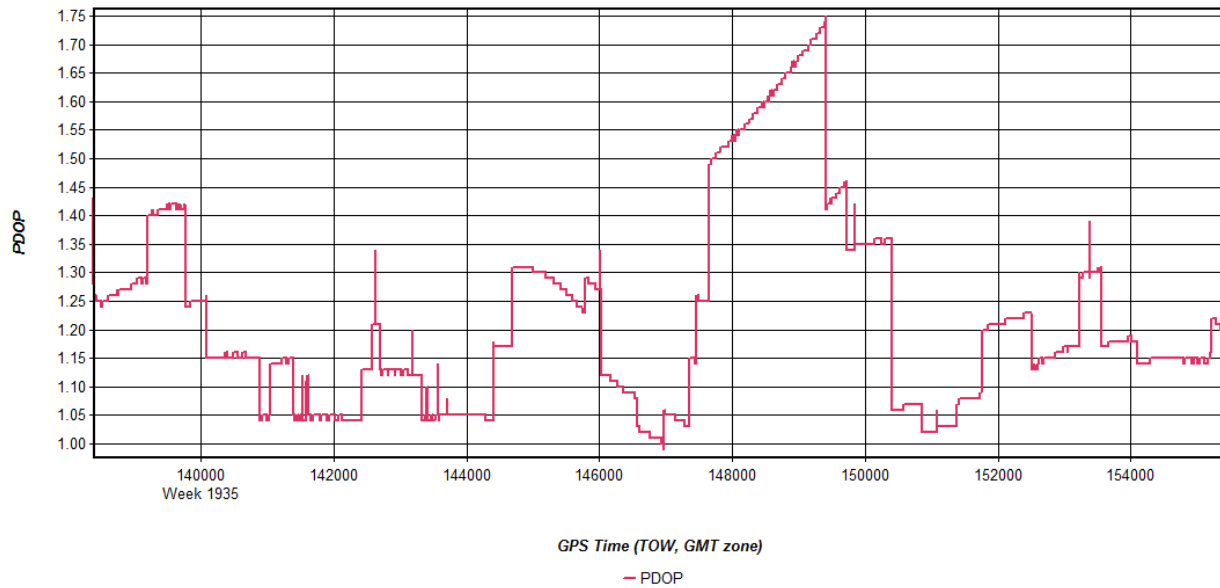
20170206_141520 [Smoothed TC Combined] - Smoothed TC Combined – Map



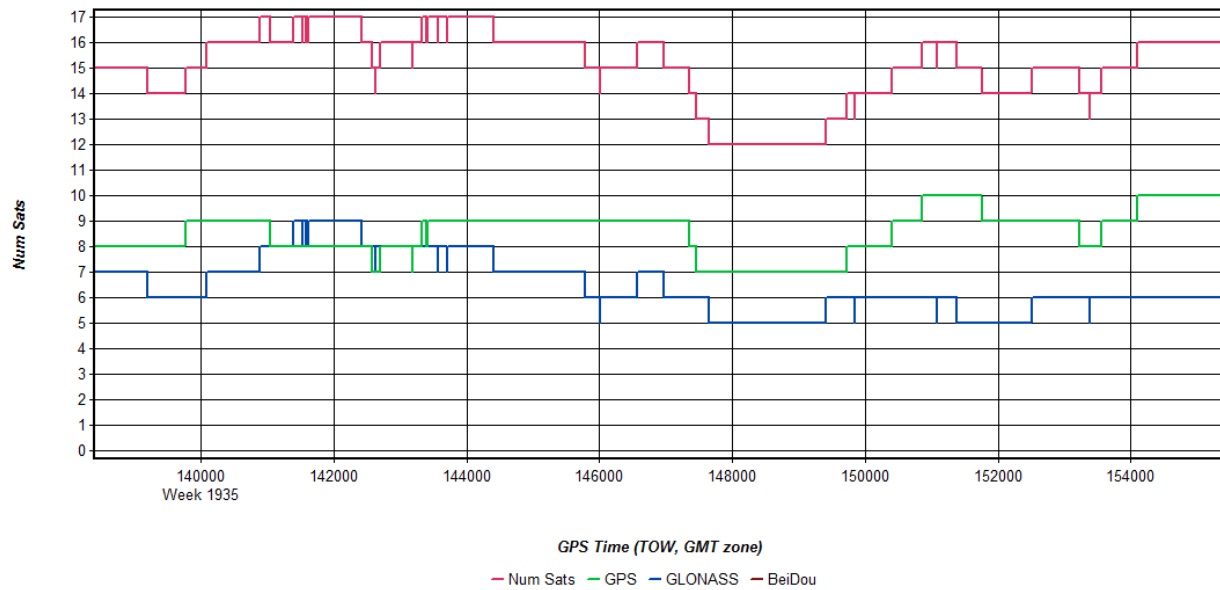
20170206_141520 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



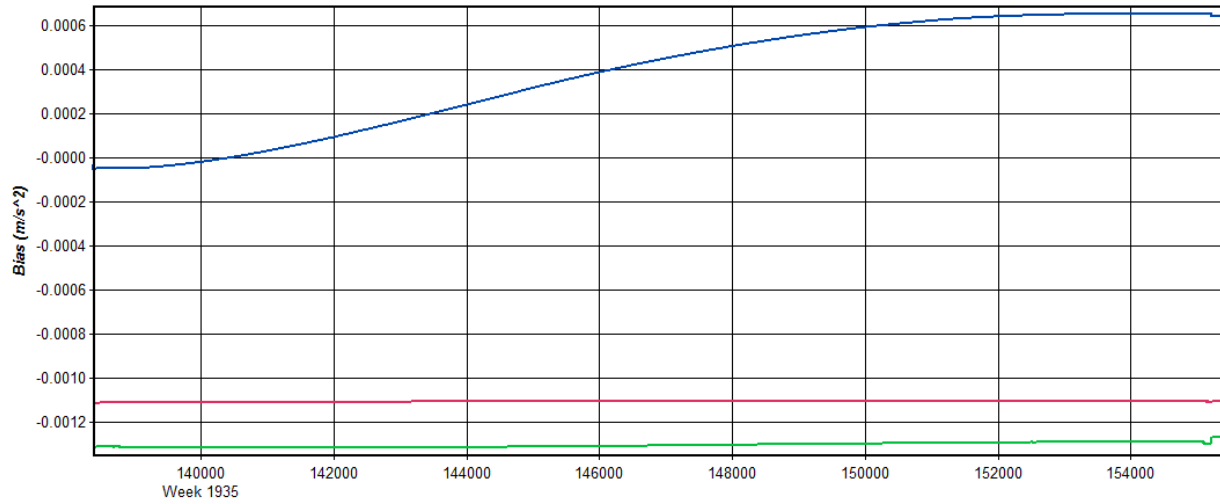
20170206_141520 [Smoothed TC Combined] - PDOP Plot



20170206_141520 [Smoothed TC Combined] - Number of Satellites Line Plot



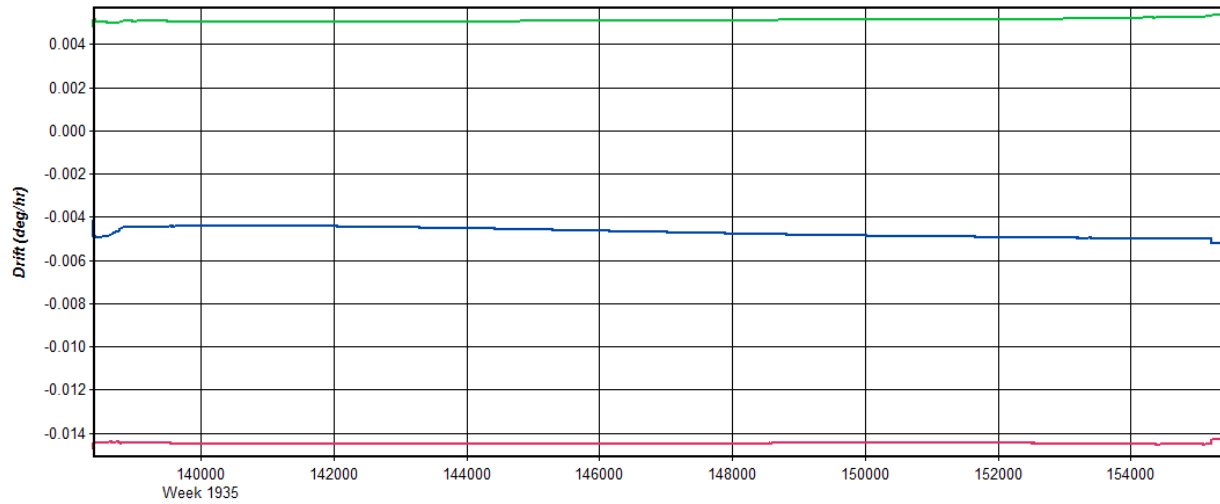
20170206_141520 [Smoothed TC Combined] - Accelerometer Bias Plot



GPS Time (TOW, GMT zone)

— Body-X — Body-Y — Body-Z

20170206_141520 [Smoothed TC Combined] - Gyro Drift Plot



GPS Time (TOW, GMT zone)

— Body-X — Body-Y — Body-Z



Processing Summary Information

Project:

N:\Production\LiDAR_Projects\17004_Suwannee_River_FL_FY17\Flight_Raw\20170206_141520\GnssI
mu\20170206_141520.cfg

Solution Type: Combined

Number of Epochs:

Total in GPB file: 35212
No processed position: 1081
Missing Fwd or Rev: 454
With bad C/A code: 0
With bad L1 Phase: 0

Quality Number Percentages:

Q 1: 59.0 %
Q 2: 37.6 %
Q 3: 3.4 %
Q 4: 0.0 %
Q 5: 0.0 %
Q 6: 0.0 %

Measurement RMS Values:

L1 Phase: 0.0159 (m)
C/A Code: 0.30 (m)
L1 Doppler: 0.029 (m/s)

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %
0.10 - 0.30 m: 0.0 %
0.30 - 1.00 m: 0.0 %
1.00 - 5.00 m: 0.0 %
5.00 m + over: 0.0 %

Fwd/Rev Separation RMS Values:

East: 0.009 (m)
North: 0.008 (m)
Height: 0.017 (m)

Percentages of epochs with DD_DOP over 10.00:

DOP over Tol: 0.0 %

Fwd/Rev Sep. RMS for dual FWD/REV fixes (33677 occurrences):

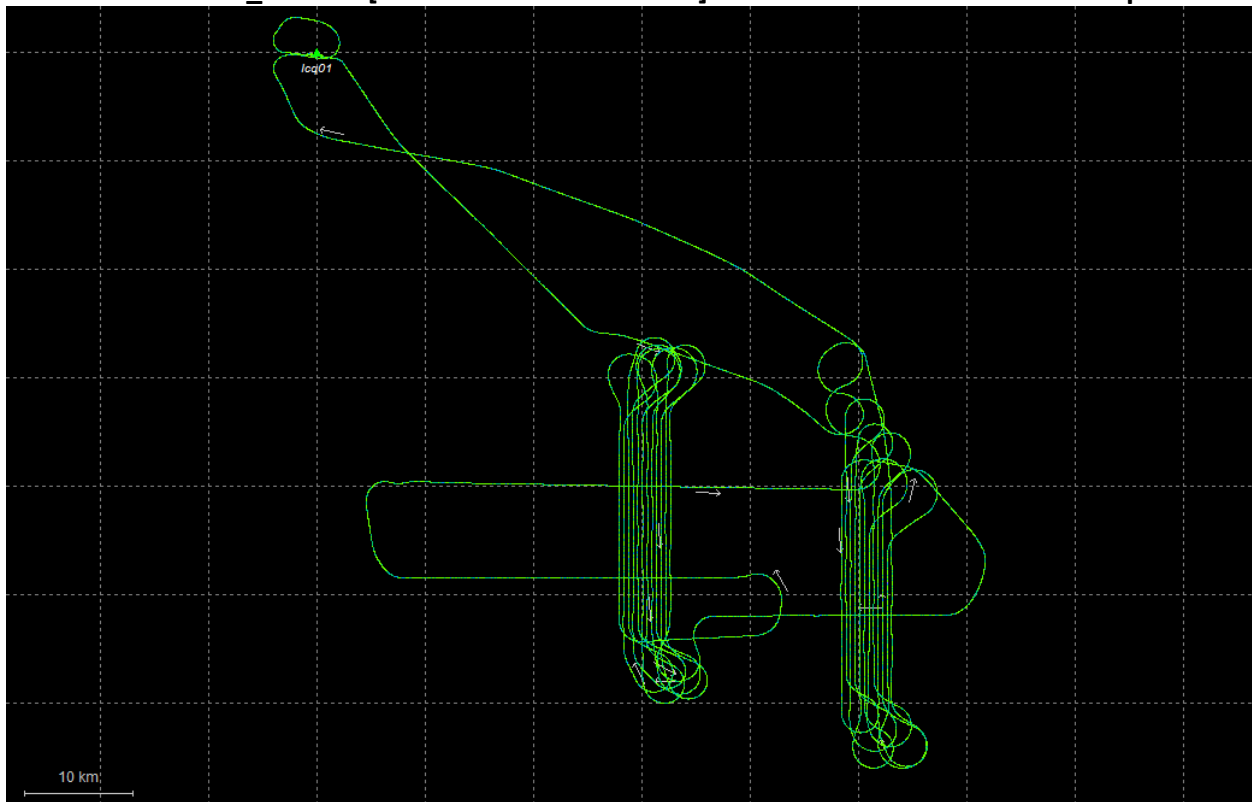
East: 0.009 (m)
North: 0.008 (m)
Height: 0.017 (m)

Baseline Distances:

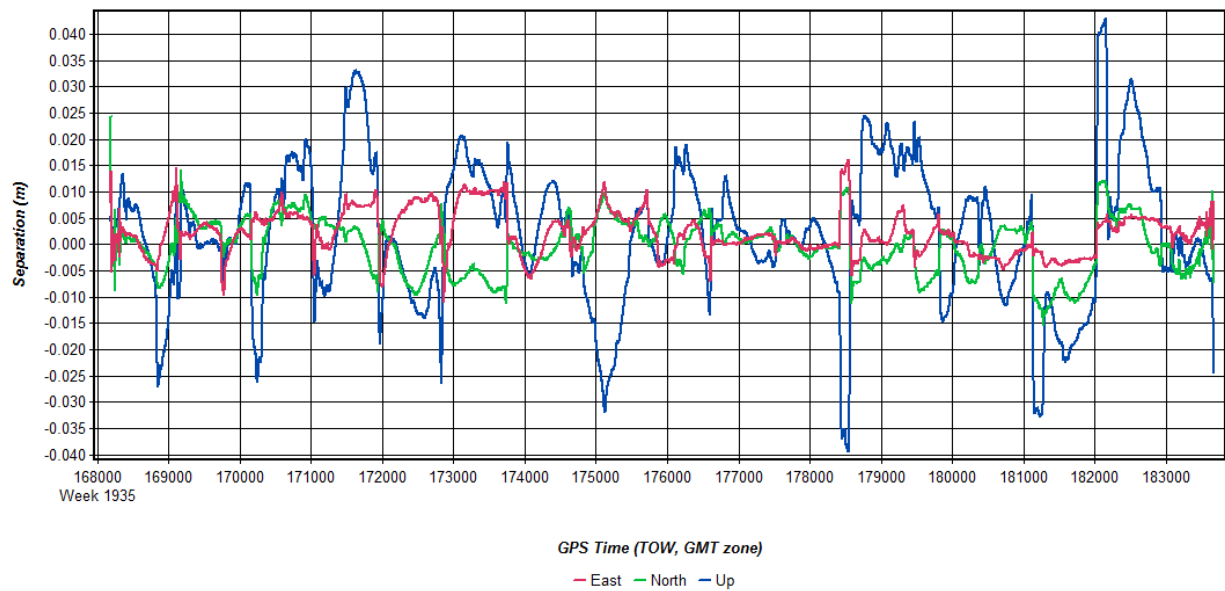
Maximum: 73.261 (km)
Minimum: 0.197 (km)
Average: 46.371 (km)
First Epoch: 0.678 (km)
Last Epoch: 0.197 (km)

Mission 2017-02-06 B

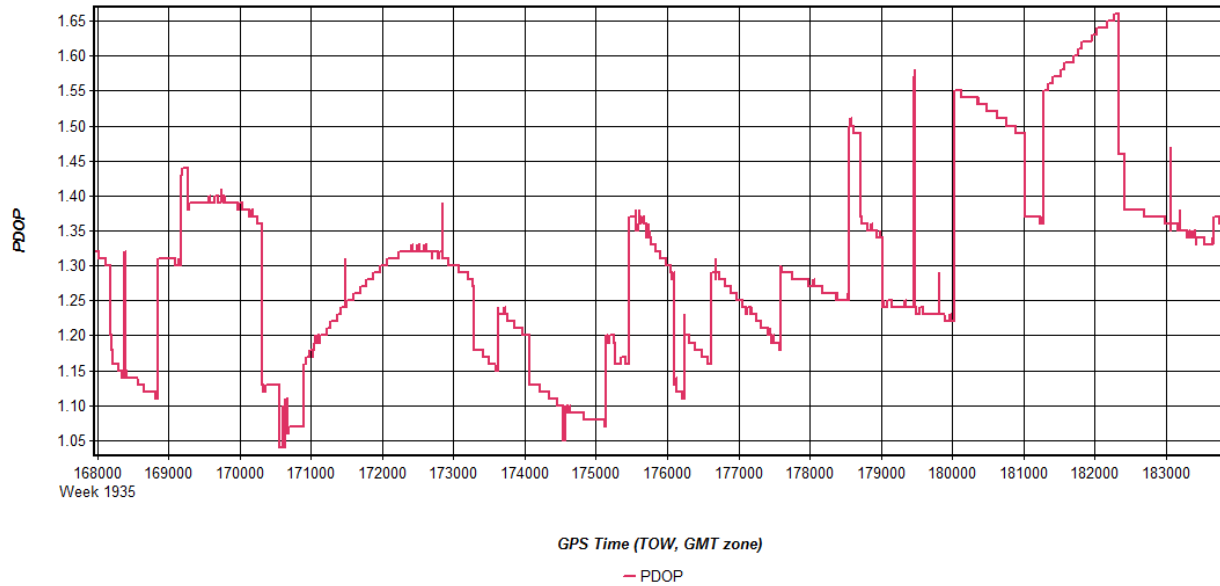
20170206_223706 [Smoothed TC Combined] - Smoothed TC Combined – Map



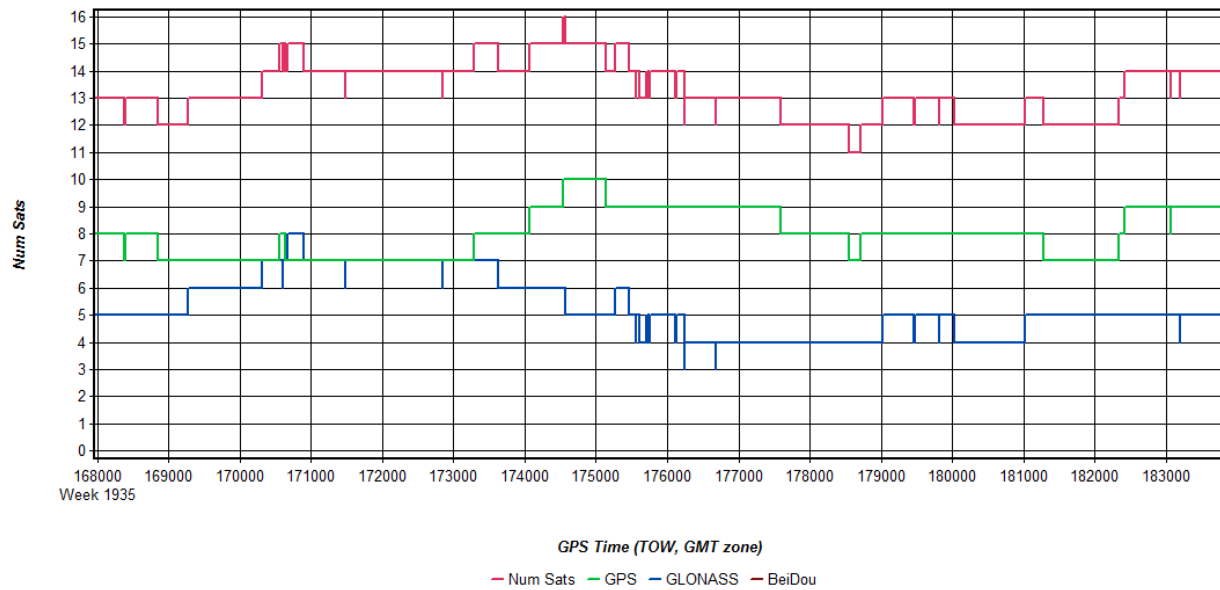
20170206_223706 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



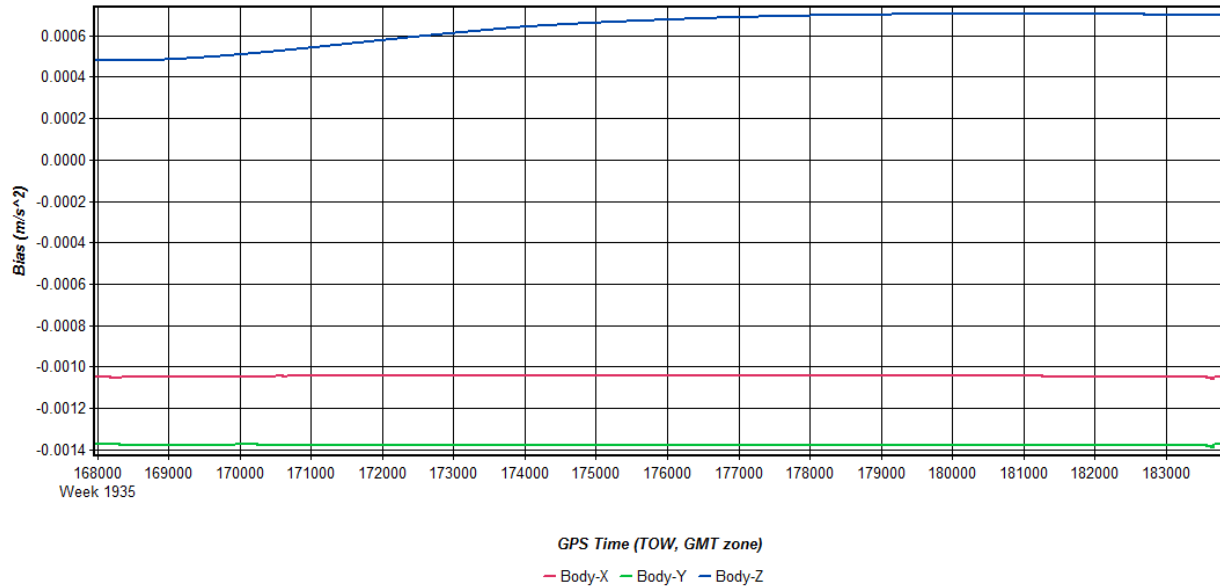
20170206_223706 [Smoothed TC Combined] - PDOP Plot



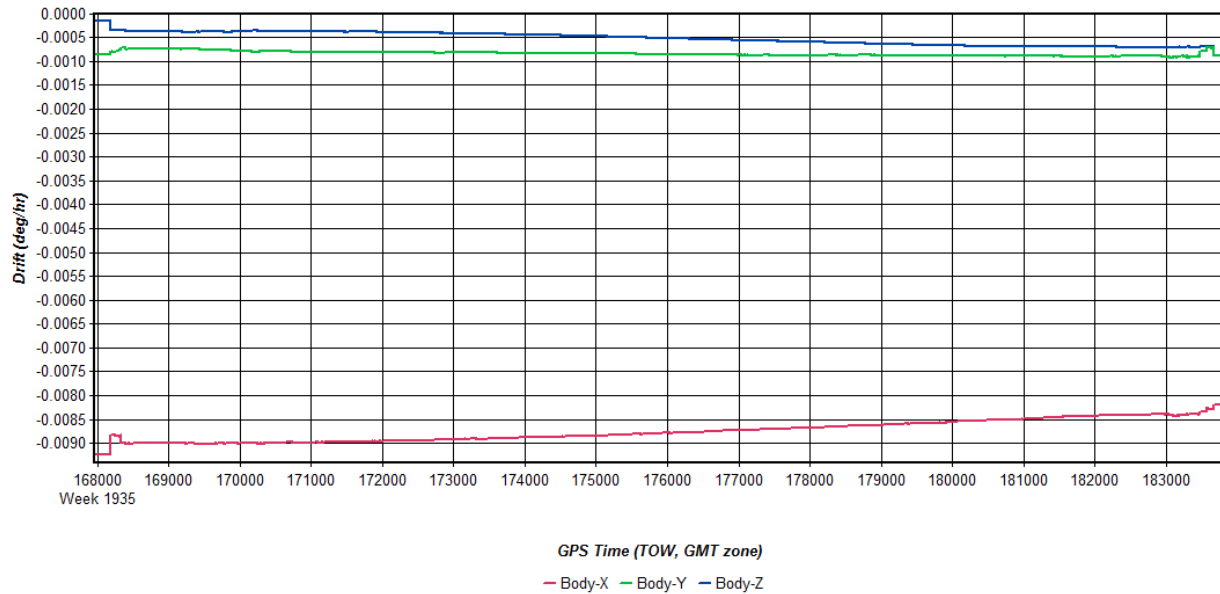
20170206_223706 [Smoothed TC Combined] - Number of Satellites Line Plot



20170206_223706 [Smoothed TC Combined] - Accelerometer Bias Plot



20170206_223706 [Smoothed TC Combined] - Gyro Drift Plot





Processing Summary Information

Project:

N:\Production\LIDAR_Projects\17004_Suwannee_River_FL_FY17\Flight_Raw\20170206_223706\Gnssimu\20170206_223706.cfg

Solution Type: Combined

Number of Epochs:

Total in GPB file: 31815
No processed position: 6
Missing Fwd or Rev: 844
With bad C/A code: 0
With bad L1 Phase: 0

Quality Number Percentages:

Q 1: 58.7 %
Q 2: 36.9 %
Q 3: 4.4 %
Q 4: 0.0 %
Q 5: 0.0 %
Q 6: 0.0 %

Measurement RMS Values:

L1 Phase: 0.0159 (m)
C/A Code: 0.33 (m)
L1 Doppler: 0.029 (m/s)

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %
0.10 - 0.30 m: 0.0 %
0.30 - 1.00 m: 0.0 %
1.00 - 5.00 m: 0.0 %
5.00 m + over: 0.0 %

Fwd/Rev Separation RMS Values:

East: 0.005 (m)
North: 0.005 (m)
Height: 0.014 (m)

Percentages of epochs with DD_DOP over 10.00:

DOP over Tol: 0.0 %

Fwd/Rev Sep. RMS for dual FWD/REV fixes (30965 occurrences):

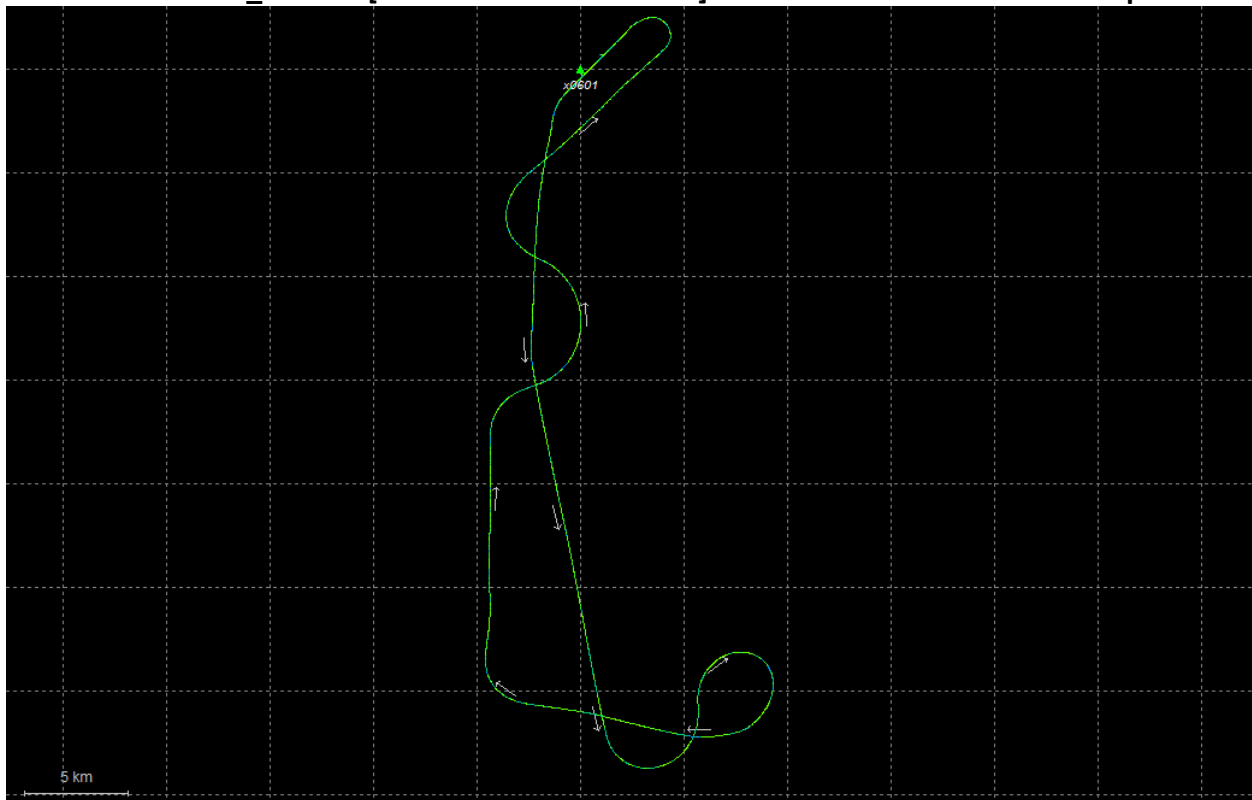
East: 0.005 (m)
North: 0.005 (m)
Height: 0.014 (m)

Baseline Distances:

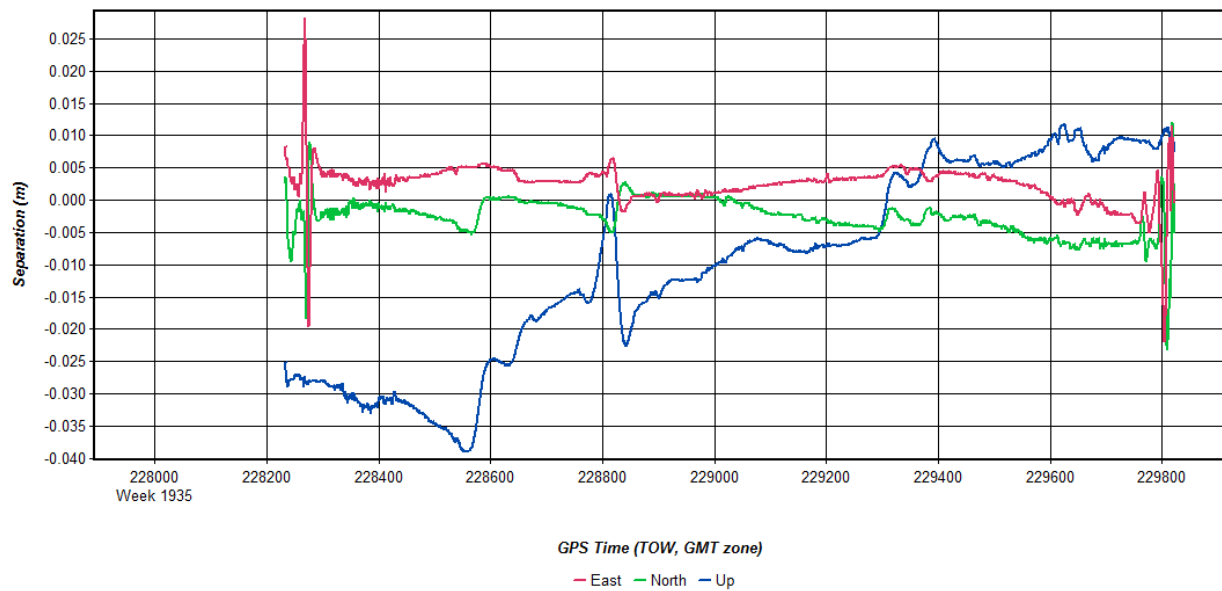
Maximum: 84.969 (km)
Minimum: 0.064 (km)
Average: 53.319 (km)
First Epoch: 0.094 (km)
Last Epoch: 0.095 (km)

Mission 2017-02-07 A

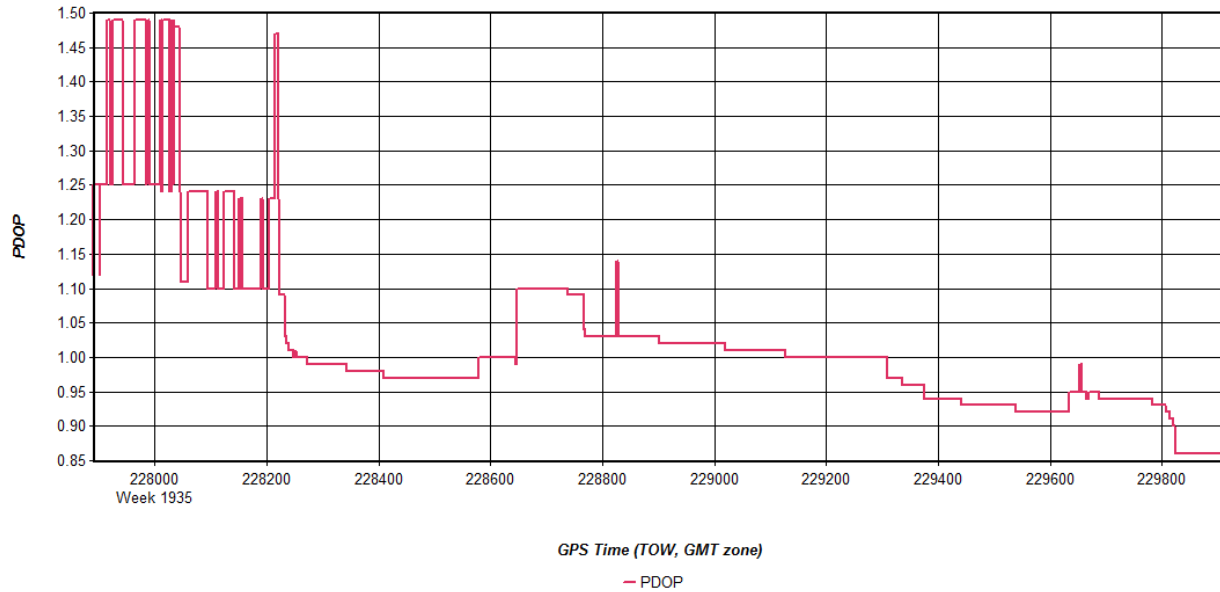
20170207_151437 [Smoothed TC Combined] - Smoothed TC Combined – Map



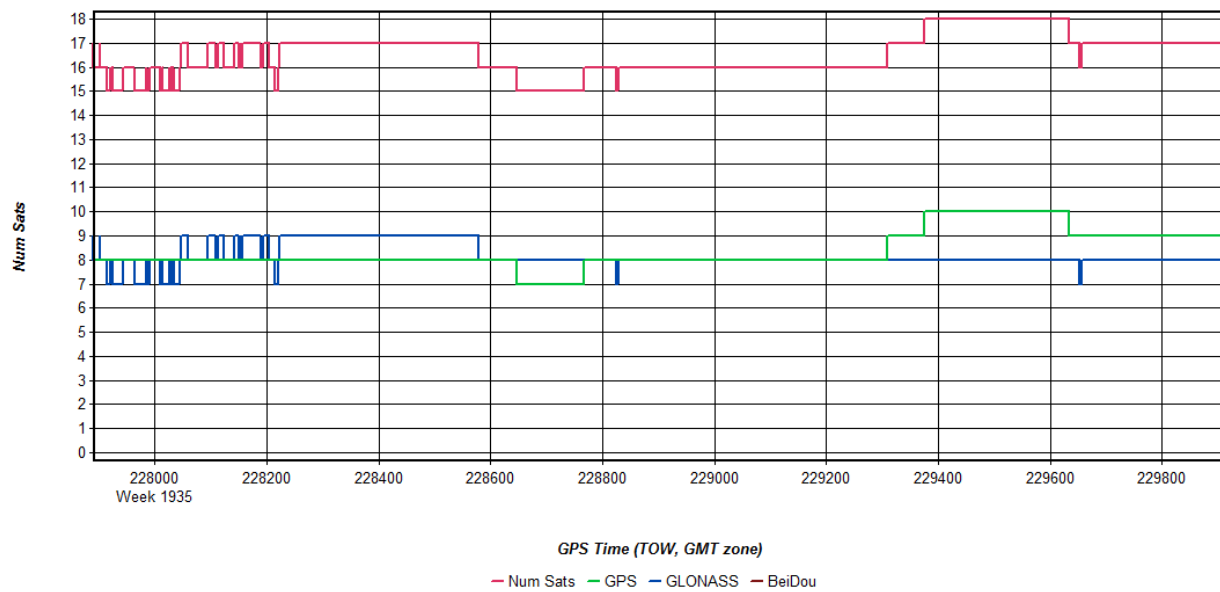
20170207_151437 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



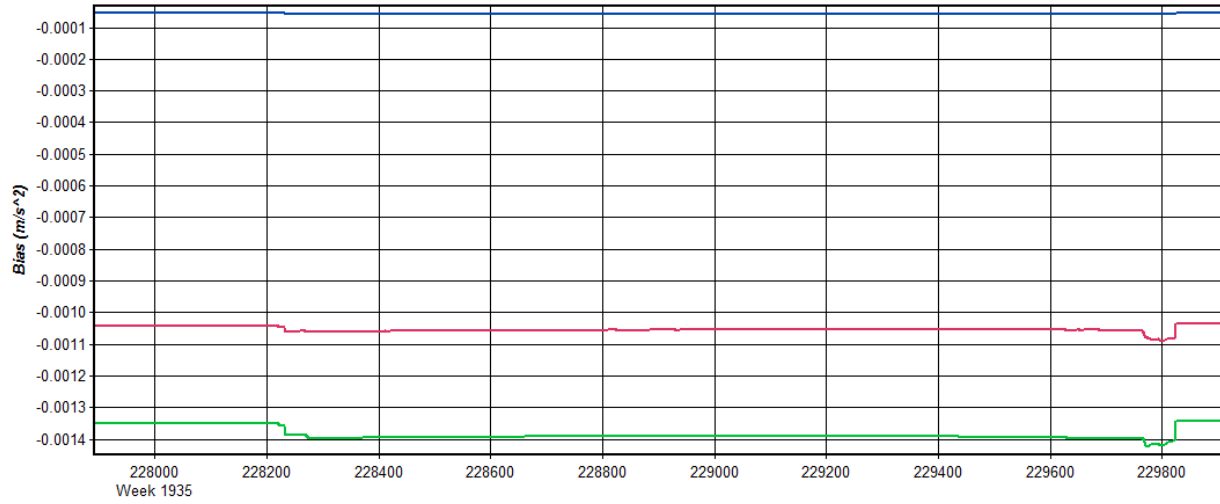
20170207_151437 [Smoothed TC Combined] - PDOP Plot



20170207_151437 [Smoothed TC Combined] - Number of Satellites Line Plot



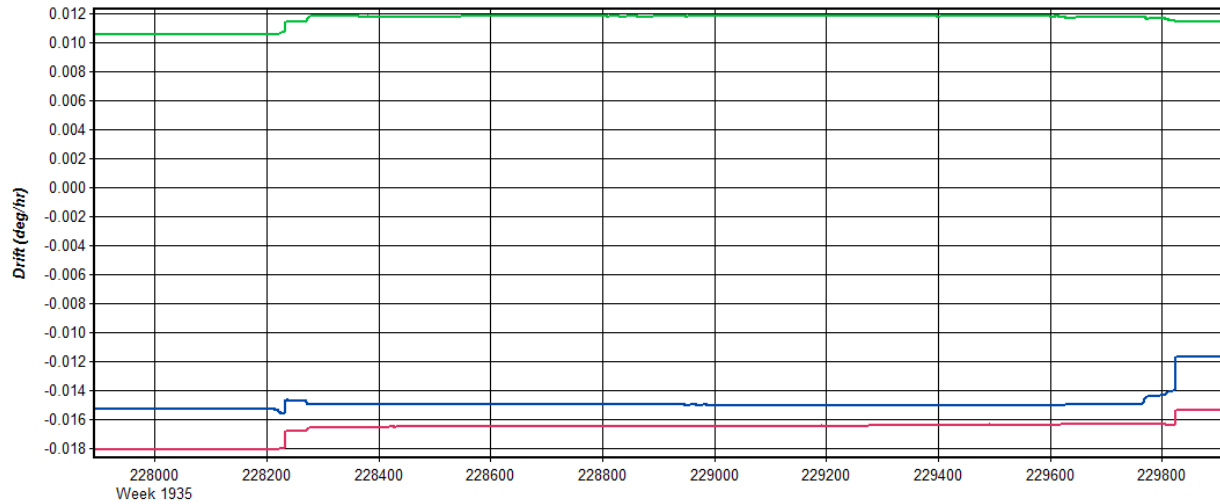
20170207_151437 [Smoothed TC Combined] - Accelerometer Bias Plot



GPS Time (TOW, GMT zone)

— Body-X — Body-Y — Body-Z

20170207_151437 [Smoothed TC Combined] - Gyro Drift Plot



GPS Time (TOW, GMT zone)

— Body-X — Body-Y — Body-Z



Processing Summary Information

Project:

N:\Production\LiDAR_Projects\17004_Suwannee_River_FL_FY17\Flight_Raw\20170207_151437\Gnsslmu\20170207_151437.cfg

Solution Type: Combined

Number of Epochs:

Total in GPB file: 4059
No processed position: 8
Missing Fwd or Rev: 870
With bad C/A code: 0
With bad L1 Phase: 0

Quality Number Percentages:

Q 1: 60.8 %
Q 2: 31.8 %
Q 3: 7.3 %
Q 4: 0.0 %
Q 5: 0.0 %
Q 6: 0.0 %

Measurement RMS Values:

L1 Phase: 0.0168 (m)
C/A Code: 0.35 (m)
L1 Doppler: 0.030 (m/s)

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %
0.10 - 0.30 m: 0.0 %
0.30 - 1.00 m: 0.0 %
1.00 - 5.00 m: 0.0 %
5.00 m + over: 0.0 %

Fwd/Rev Separation RMS Values:

East: 0.004 (m)
North: 0.004 (m)
Height: 0.018 (m)

Percentages of epochs with DD_DOP over 10.00:

DOP over Tol: 0.0 %

Fwd/Rev Sep. RMS for dual FWD/REV fixes (3181 occurrences):

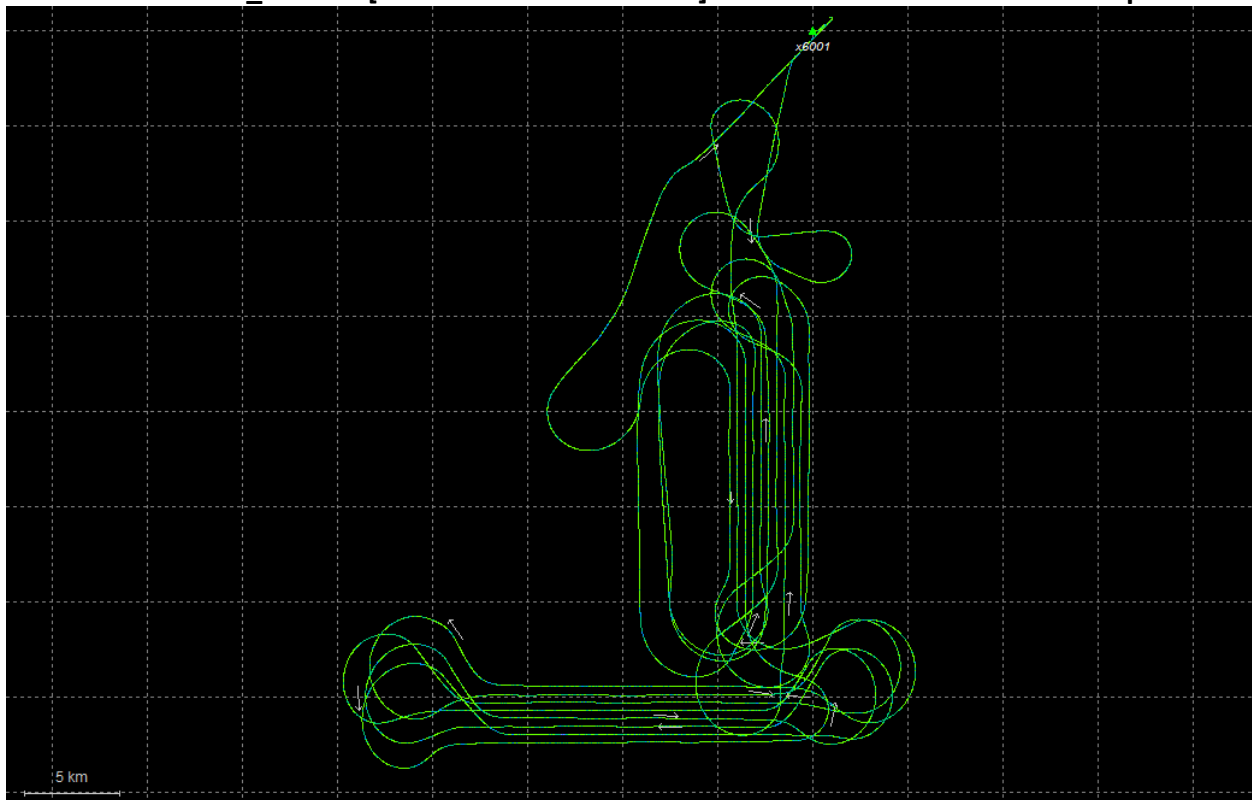
East: 0.004 (m)
North: 0.004 (m)
Height: 0.018 (m)

Baseline Distances:

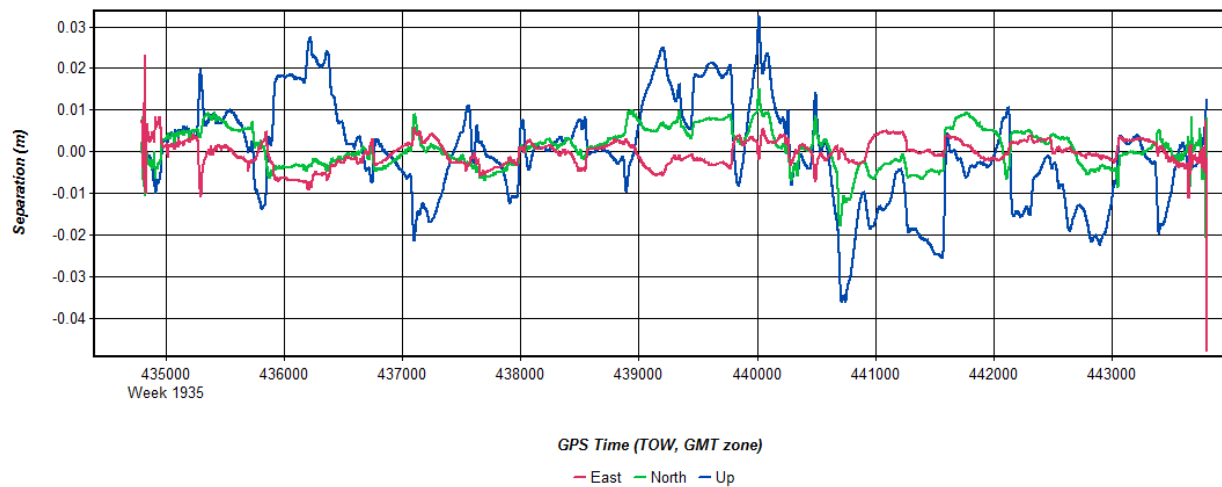
Maximum: 33.594 (km)
Minimum: 0.081 (km)
Average: 12.971 (km)
First Epoch: 1.139 (km)
Last Epoch: 0.081 (km)

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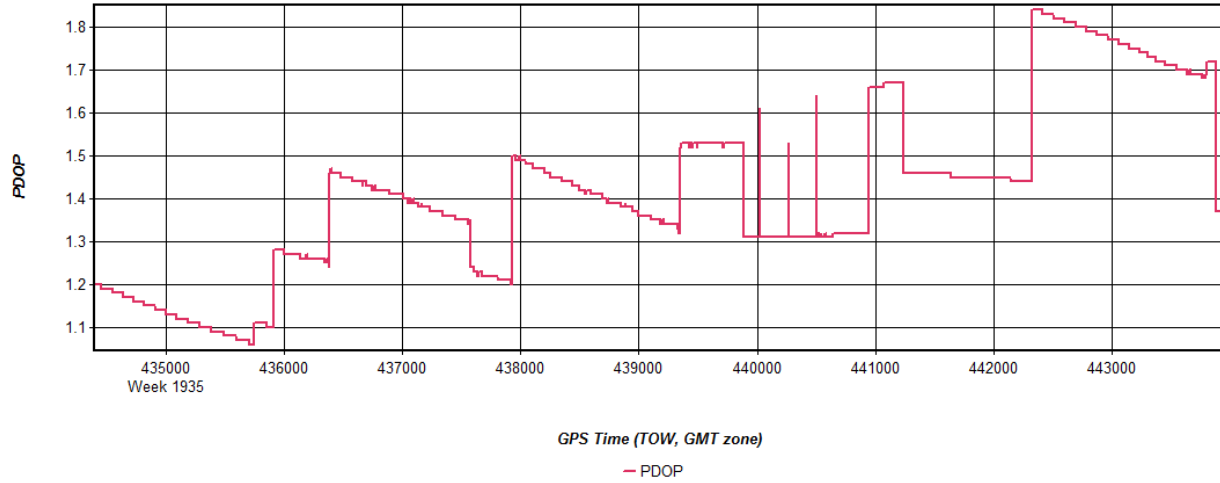
20170210_003634 [Smoothed TC Combined] - Smoothed TC Combined – Map



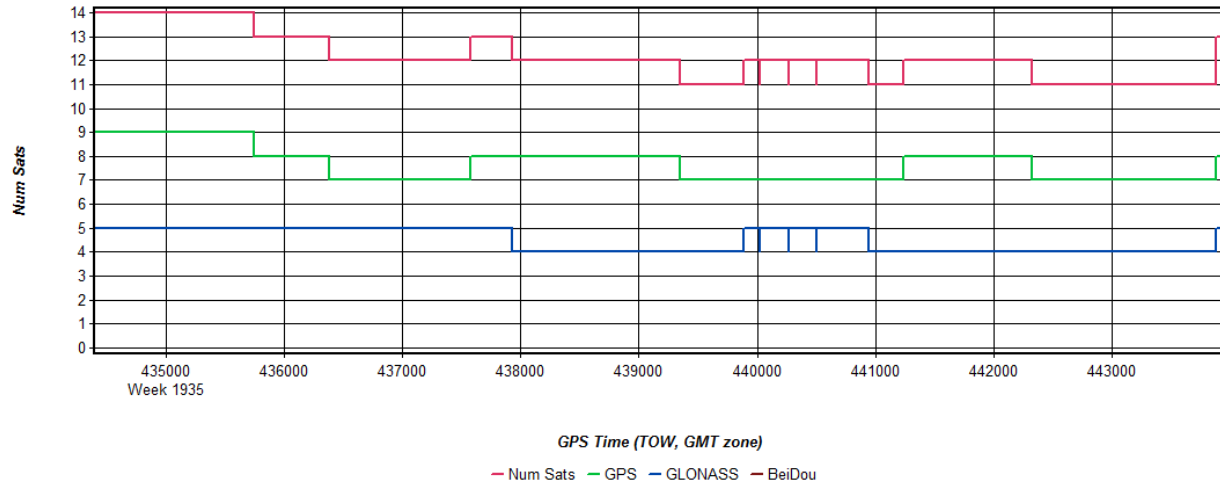
20170210_003634 [Smoothed TC Combined] - Forward/Reverse or Combined Separation Plot



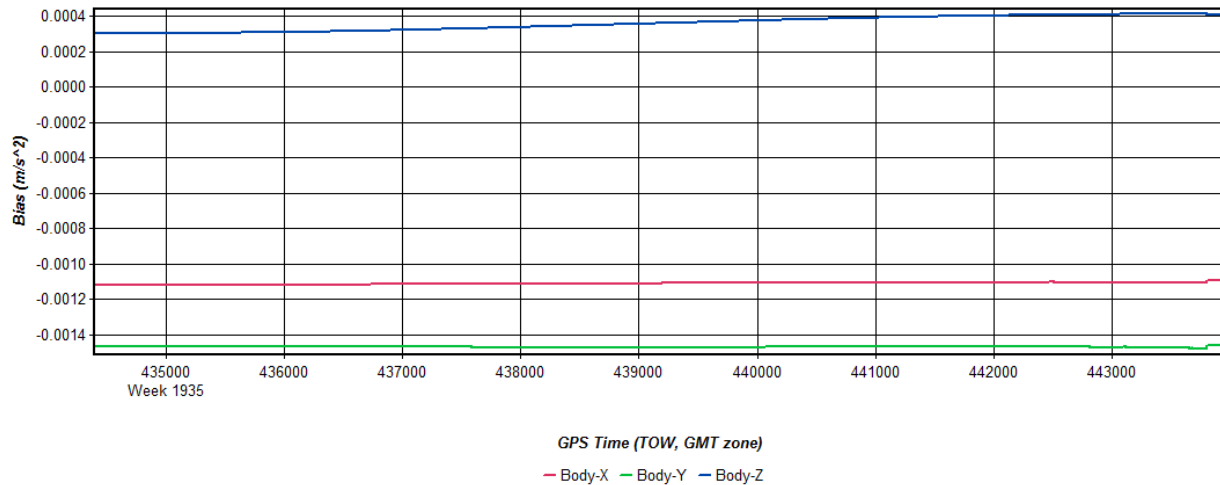
20170210_003634 [Smoothed TC Combined] - PDOP Plot



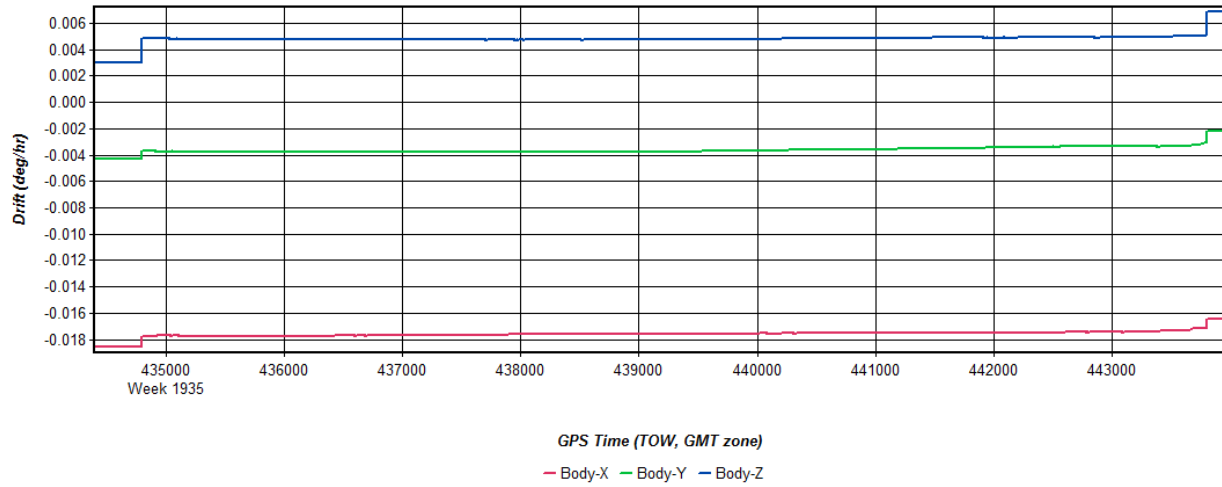
20170210_003634 [Smoothed TC Combined] - Number of Satellites Line Plot



20170210_003634 [Smoothed TC Combined] - Accelerometer Bias Plot



20170210_003634 [Smoothed TC Combined] - Gyro Drift Plot





Processing Summary Information

Project:

N:\Production\LIDAR_Projects\17004_Suwannee_River_FL_FY17\Flight_Raw\20170210_003634\Gnss\mu\20170210_003634.cfg

Solution Type: Combined

Number of Epochs:

Total in GPB file: 19180
No processed position: 7
Missing Fwd or Rev: 1160
With bad C/A code: 0
With bad L1 Phase: 0

Quality Number Percentages:

Q 1: 58.1 %
Q 2: 35.9 %
Q 3: 6.0 %
Q 4: 0.1 %
Q 5: 0.0 %
Q 6: 0.0 %

Measurement RMS Values:

L1 Phase: 0.0139 (m)
C/A Code: 0.30 (m)
L1 Doppler: 0.027 (m/s)

Position Standard Deviation Percentages:

0.00 - 0.10 m: 100.0 %
0.10 - 0.30 m: 0.0 %
0.30 - 1.00 m: 0.0 %
1.00 - 5.00 m: 0.0 %
5.00 m + over: 0.0 %

Fwd/Rev Separation RMS Values:

East: 0.003 (m)
North: 0.005 (m)
Height: 0.012 (m)

Percentages of epochs with DD_DOP over 10.00:

DOP over Tol: 0.0 %

Fwd/Rev Sep. RMS for dual FWD/REV fixes (18013 occurrences):

East: 0.003 (m)
North: 0.005 (m)
Height: 0.012 (m)

Baseline Distances:

Maximum: 44.167 (km)
Minimum: 0.047 (km)
Average: 25.037 (km)
First Epoch: 1.130 (km)
Last Epoch: 0.047 (km)