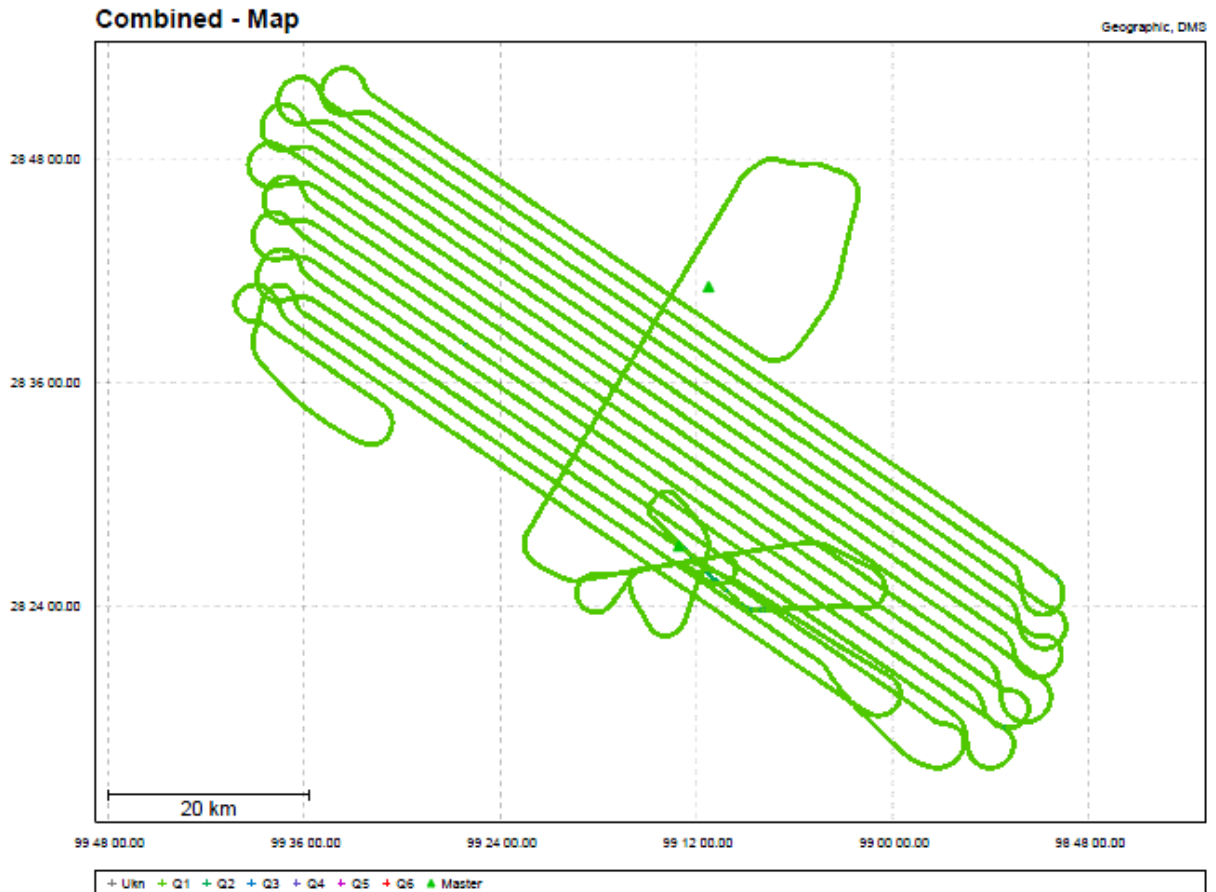


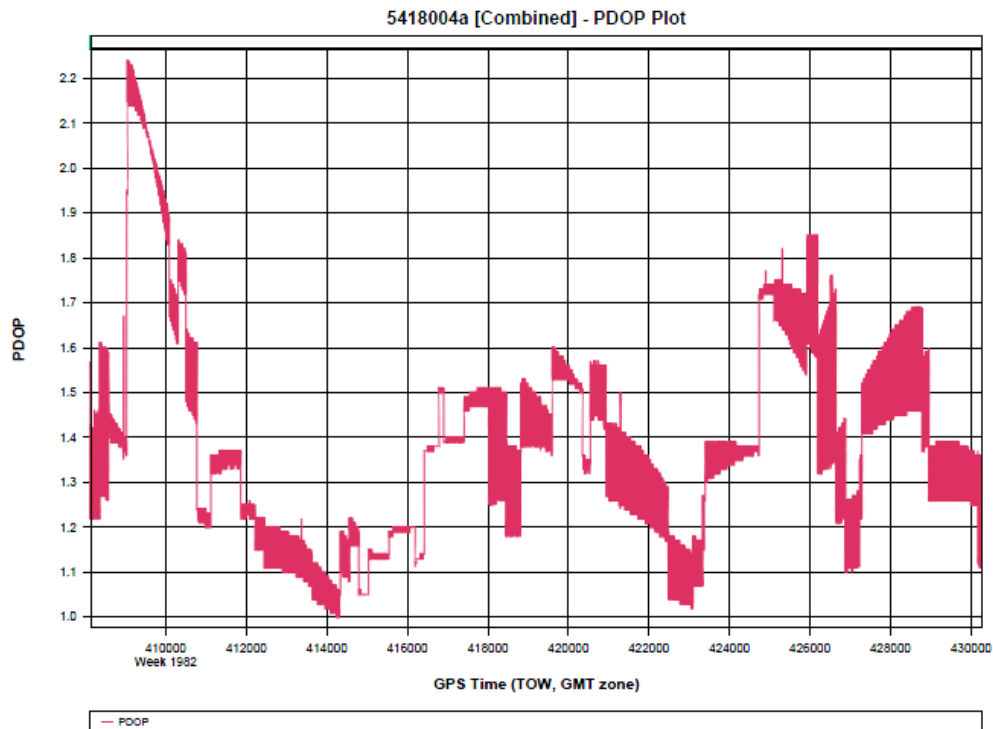
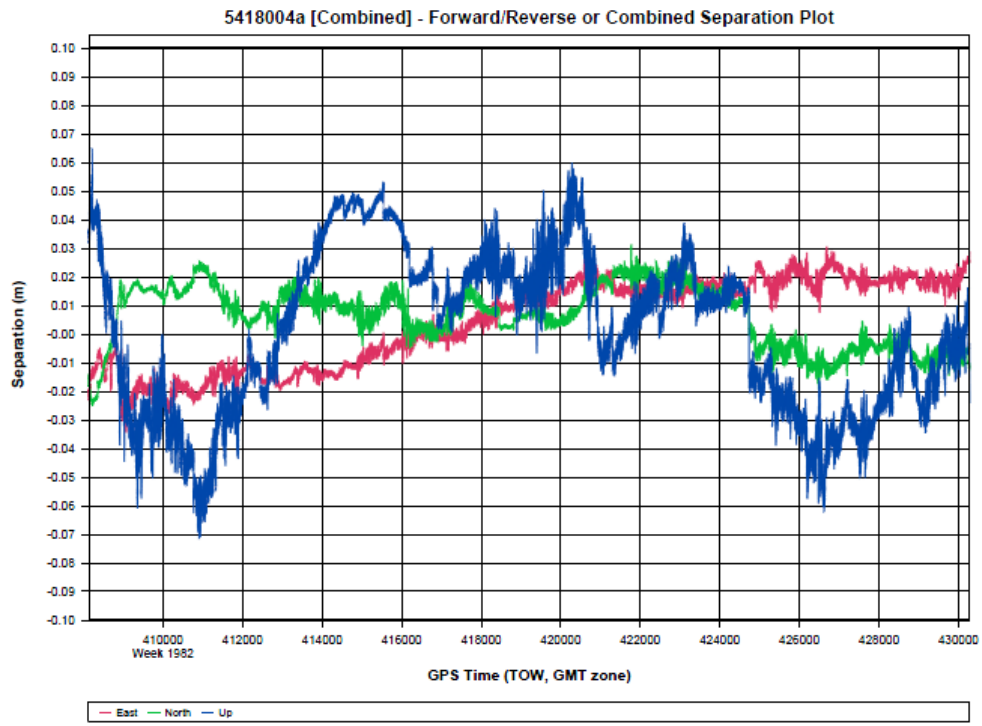
Appendix A: GNSS and IMU Processing Reports for Each Mission

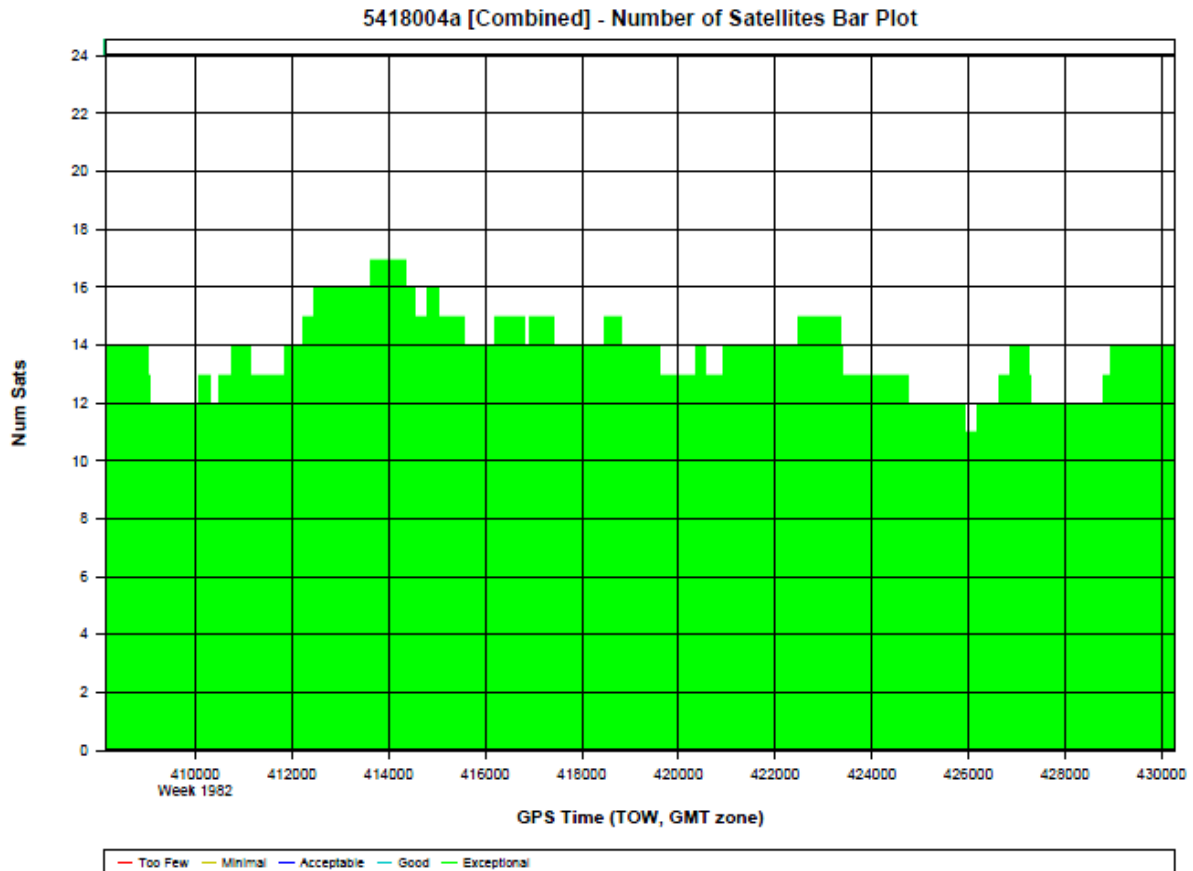
Mission 1 - 5418004a GNSS Processing

Project: 5418004a

GrafNav v8.50.4320







Processing Summary Information

Program: GrafNav

Version: 8.50.4320

Project: D:\Projects\3122_Atoscosa-2018\Lidar\5418004a\05_INS-

GPS_PROC\01_POS\5418004a\5418004a\GNSS\5418004a.gnv

Solution Type: Combined

Number of Epochs:

Total in GPB file: 22402

No processed position: 246

Missing Fwd or Rev: 4

With bad C/A code: 0

With bad L1 Phase: 0

Measurement RMS Values:

L1 Phase: 0.0158 (m)

C/A Code: 0.84 (m)

L1 Doppler: 0.538 (m/s)

Fwd/Rev Separation RMS Values:

East: 0.016 (m)

North: 0.012 (m)

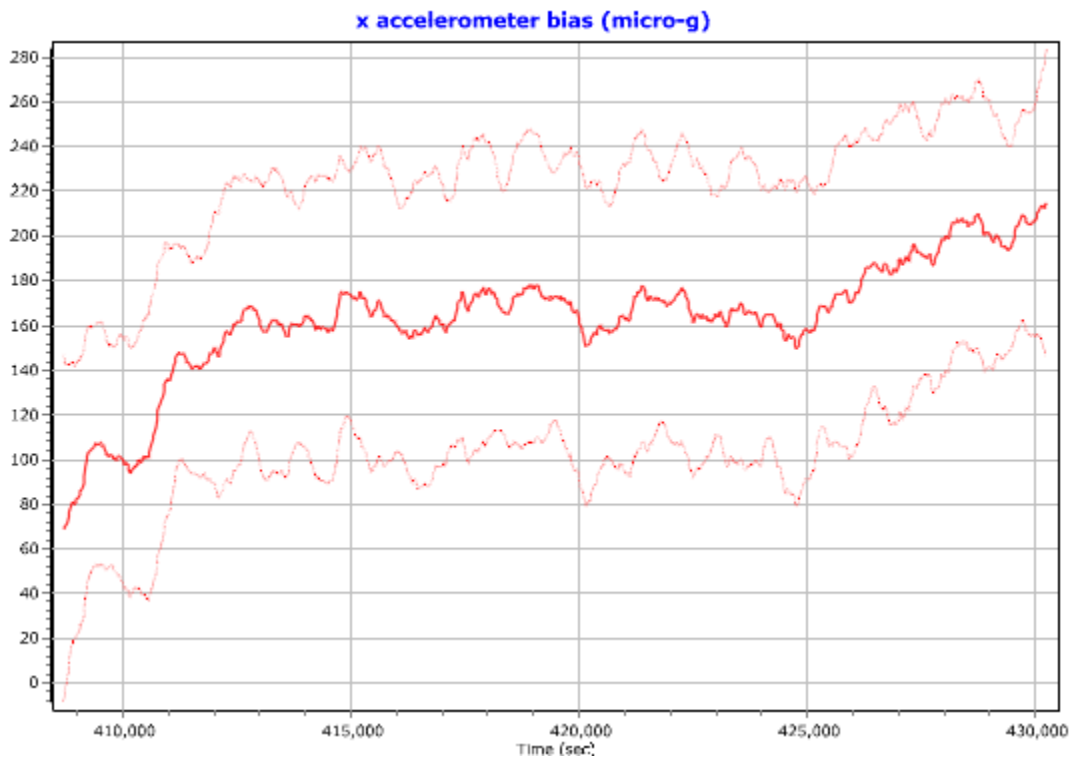
Height: 0.028 (m)

Fwd/Rev Sep. RMS for dual FWD/REV fixes (22152 occurrences):

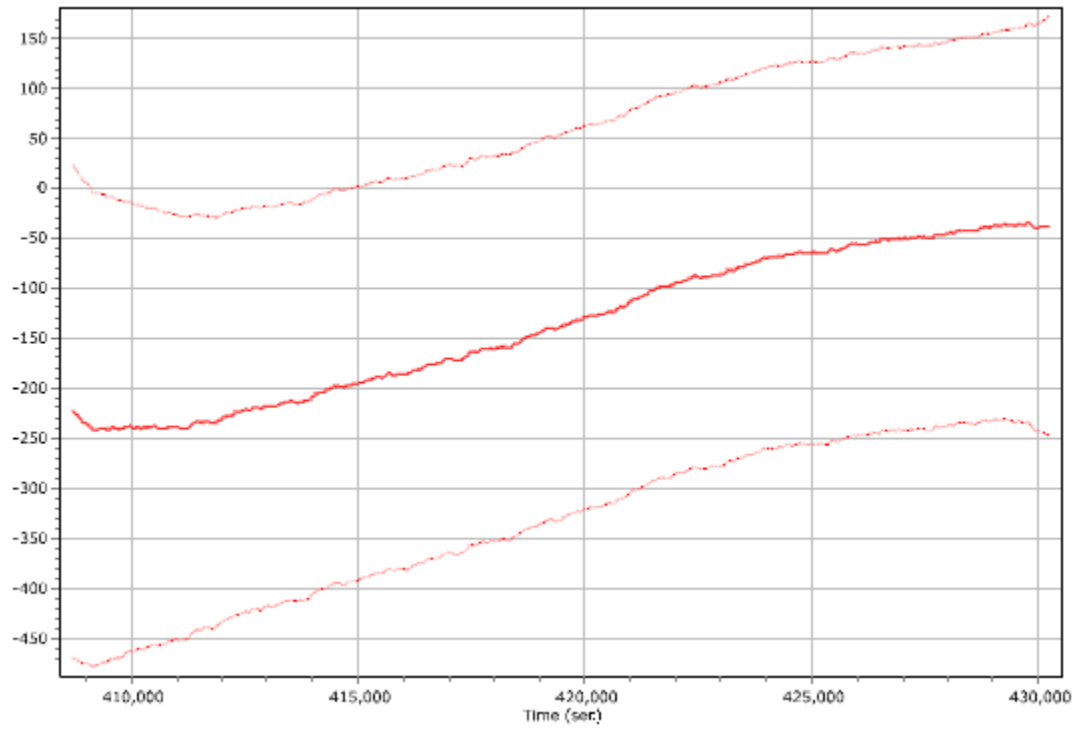
East: 0.016 (m)

North: 0.012 (m)
Height: 0.028 (m)
Quality Number Percentages:
Q 1: 99.2 %
Q 2: 0.8 %
Q 3: 0.0 %
Q 4: 0.0 %
Q 5: 0.0 %
Q 6: 0.0 %
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 %
Percentages of epochs with DD_DOP over 10.00:
DOP over Tol: 0.0 %
Baseline Distances:
Maximum: 52.397 (km)
Minimum: 2.114 (km)
Average: 24.251 (km)
First Epoch: 13.023 (km)
Last Epoch: 12.916 (km)

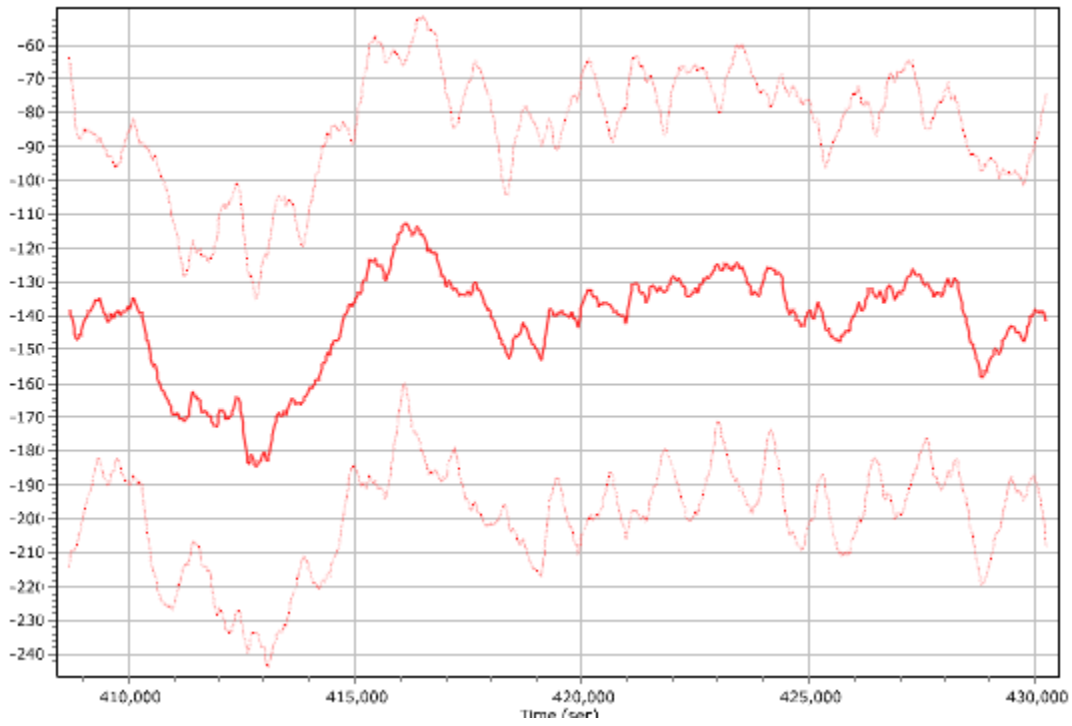
Mission 1 - 5418004a Sensor Errors



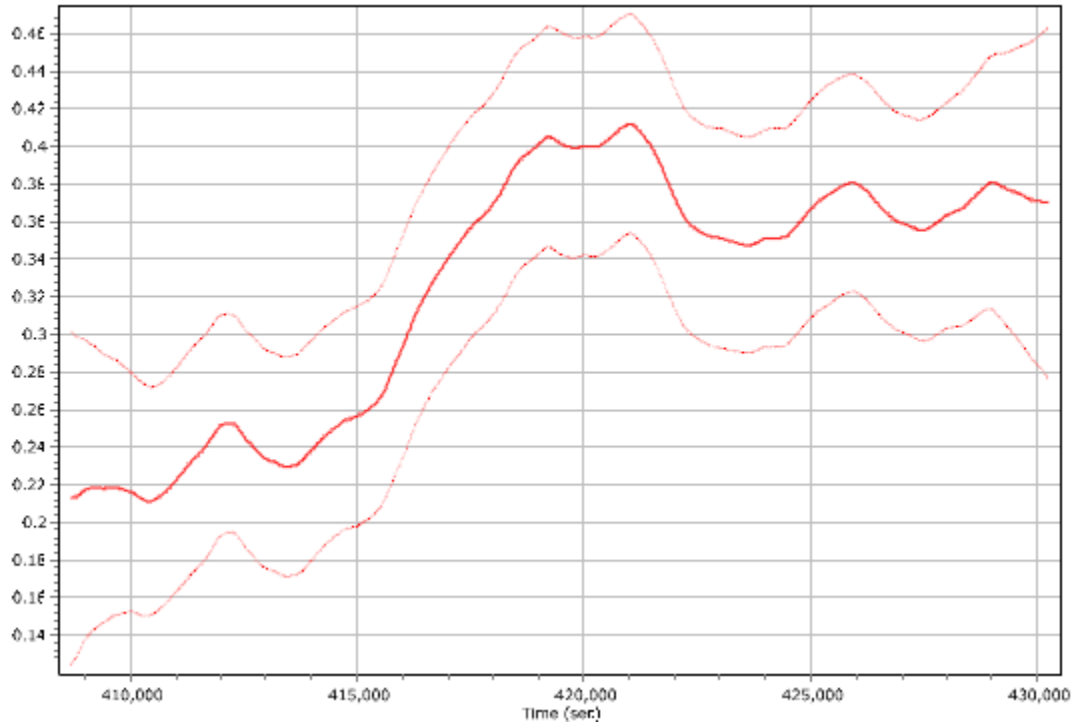
z accelerometer bias (micro-g)



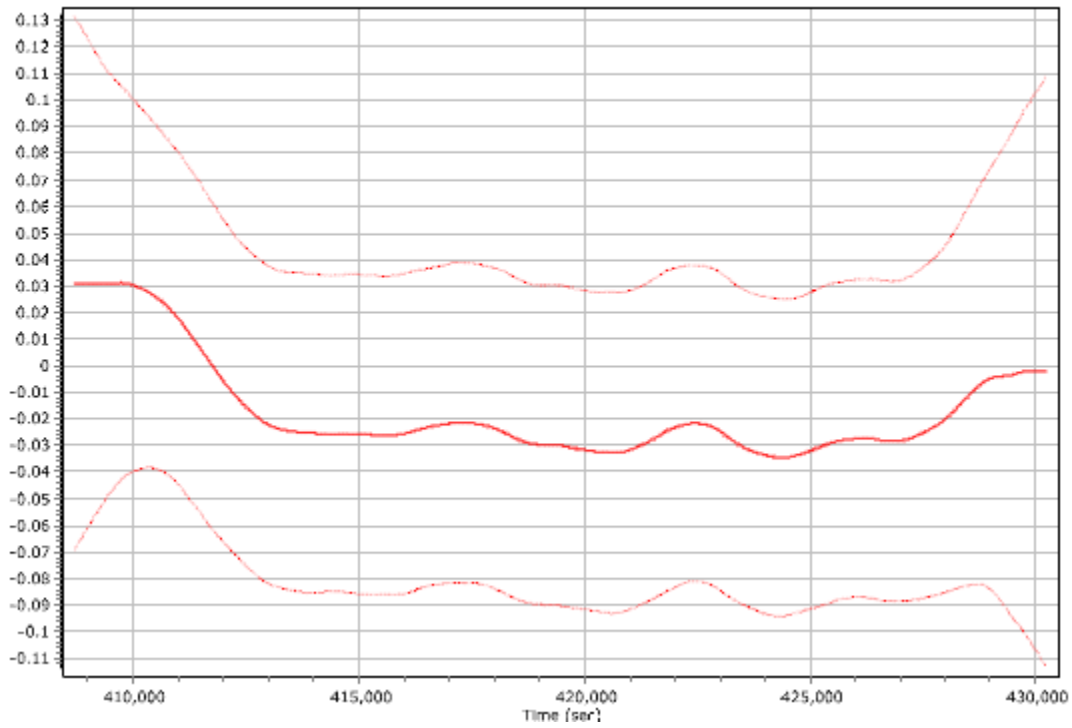
y accelerometer bias (micro-g)



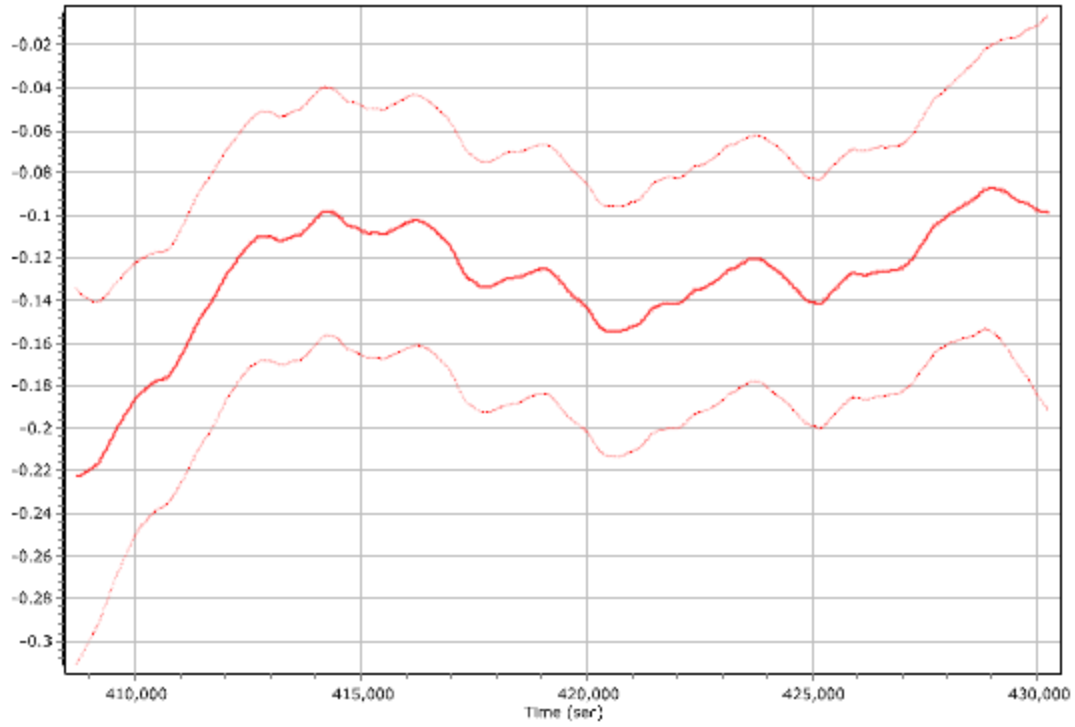
x gyro bias (deg/hr)



z gyro bias (deg/hr)



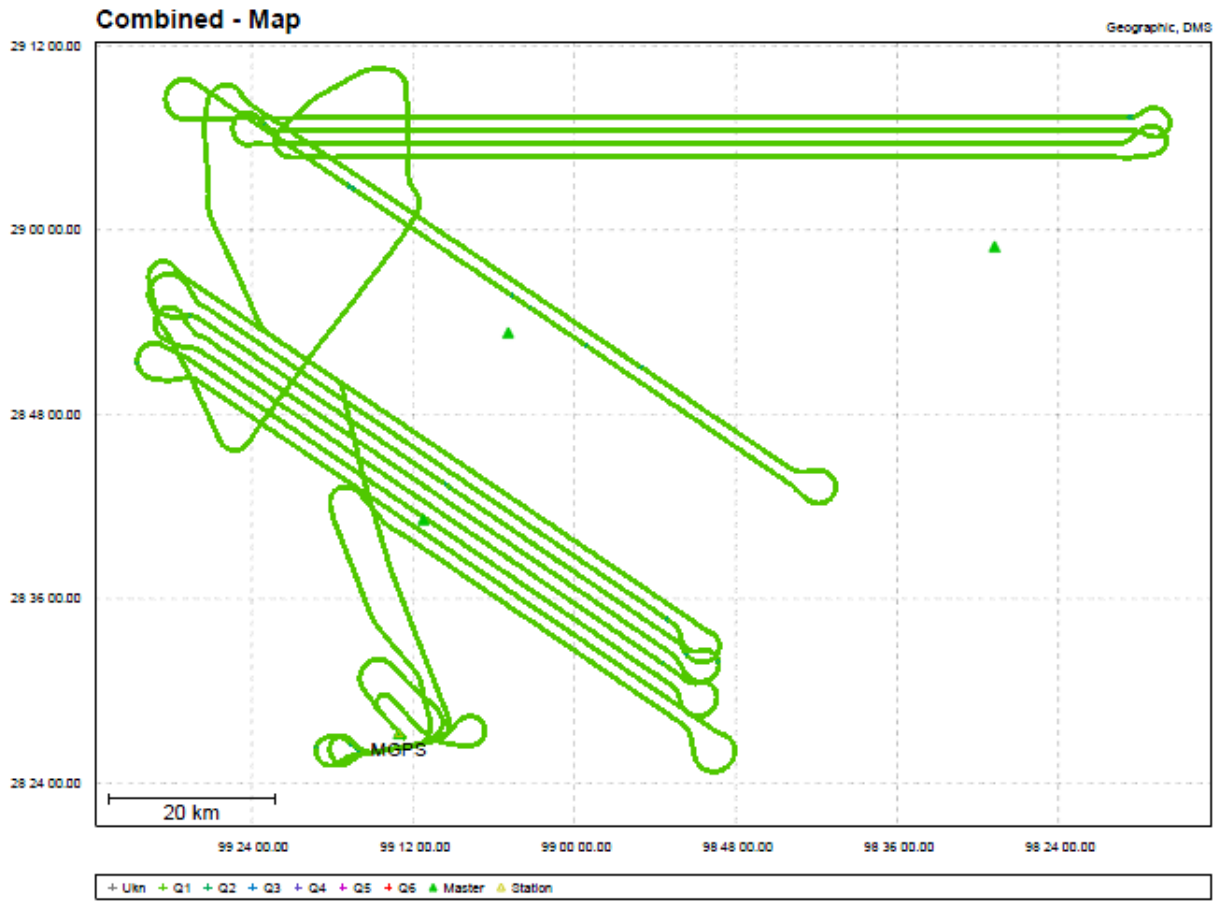
y gyro bias (deg/hr)



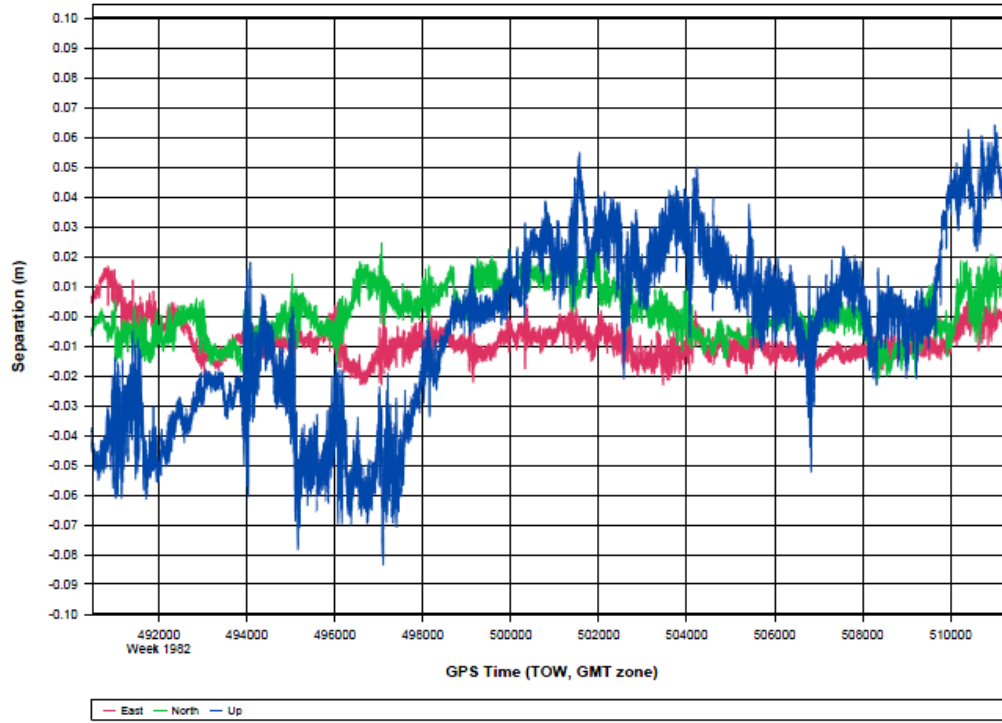
Mission 2 - 5418005b GNSS Processing

Project: 5418005a

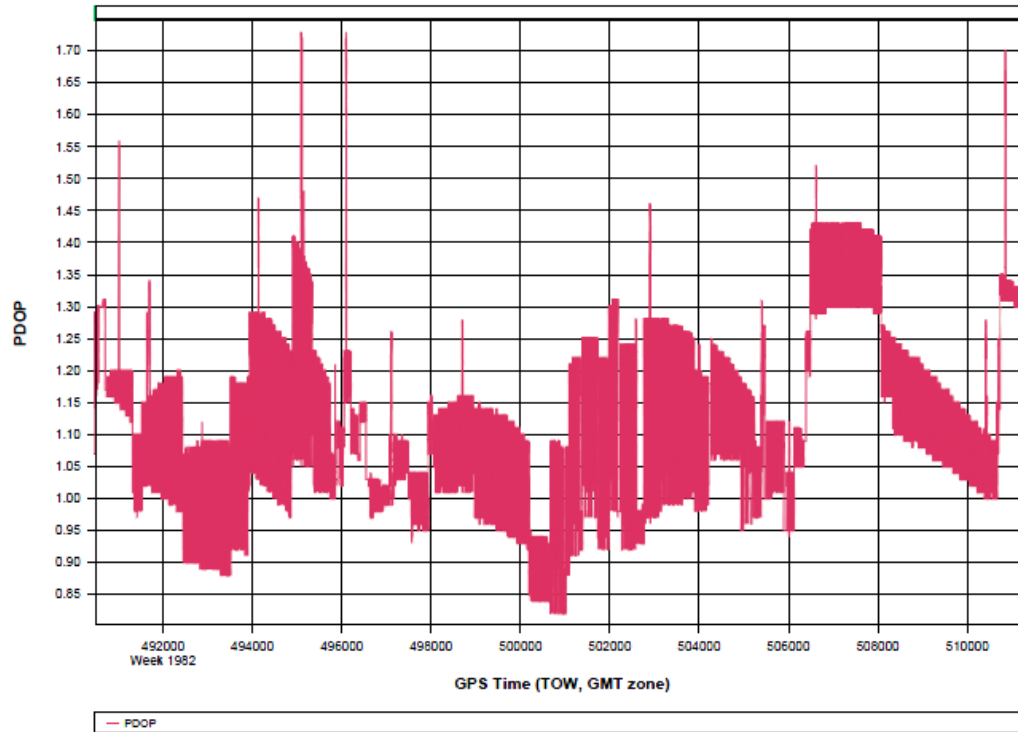
GrafNav v8.50.4320

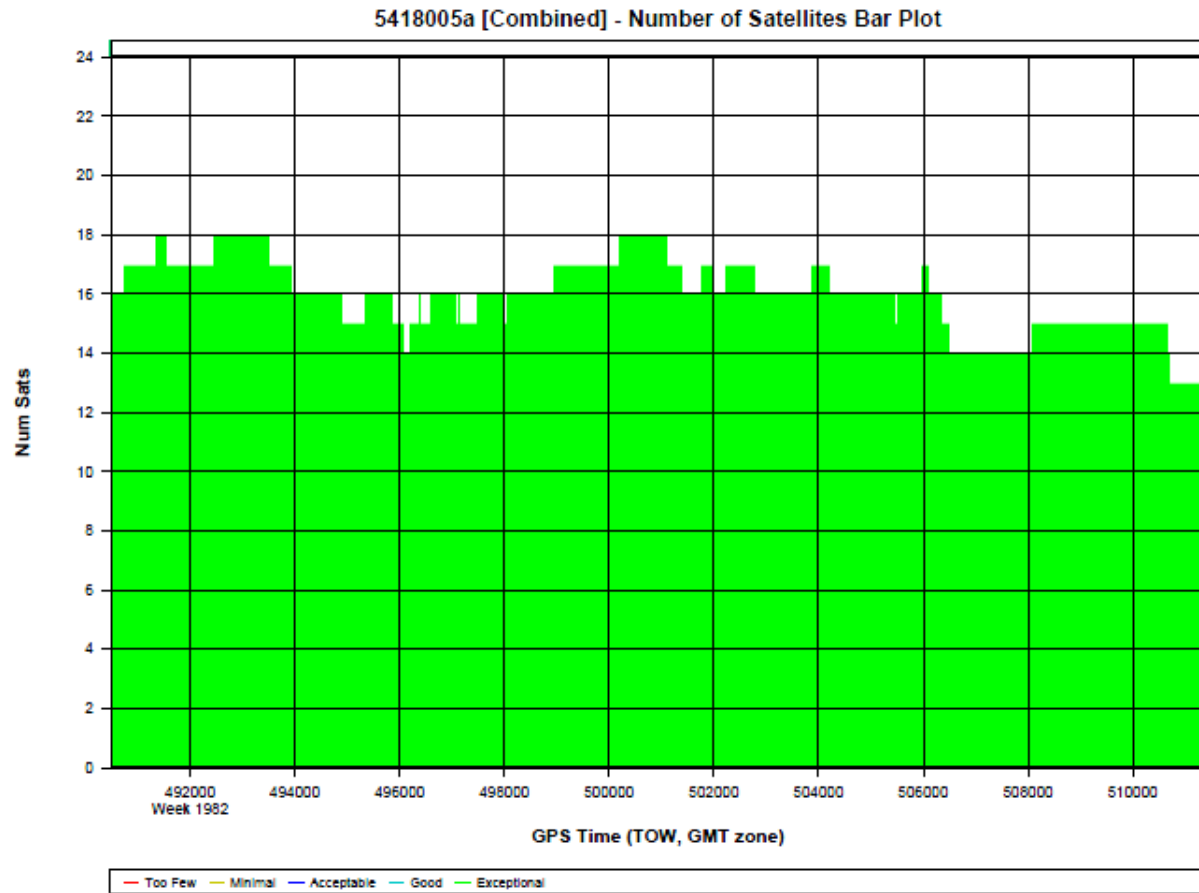


5418005a [Combined] - Forward/Reverse or Combined Separation Plot



5418005a [Combined] - PDOP Plot





Processing Summary Information

Program: GrafNav
 Version: 8.50.4320
 Project: D:\Projects\3122_Atascosa-2018\Lidar\5418005a\05_INS-GPS_PROC\01_POS\5418005a\5418005a\GNSS\5418005a.gnv

Solution Type: Combined

Number of Epochs:

Total in GPB file: 20903
 No processed position: 0
 Missing Fwd or Rev: 4
 With bad C/A code: 0

With bad L1 Phase: 0

Measurement RMS Values:

L1 Phase: 0.0203 (m)

C/A Code: 0.74 (m)

L1 Doppler: 0.544 (m/s)

Fwd/Rev Separation RMS Values:

East: 0.010 (m)

North: 0.009 (m)

Height: 0.030 (m)

Fwd/Rev Sep. RMS for dual FWD/REV fixes (20898 occurrences):

East: 0.010 (m)

North: 0.009 (m)

Height: 0.030 (m)

Quality Number Percentages:

Q 1: 99.1 %

Q 2: 0.9 %

Q 3: 0.0 %

Q 4: 0.0 %

Q 5: 0.0 %

Q 6: 0.0 %

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 %

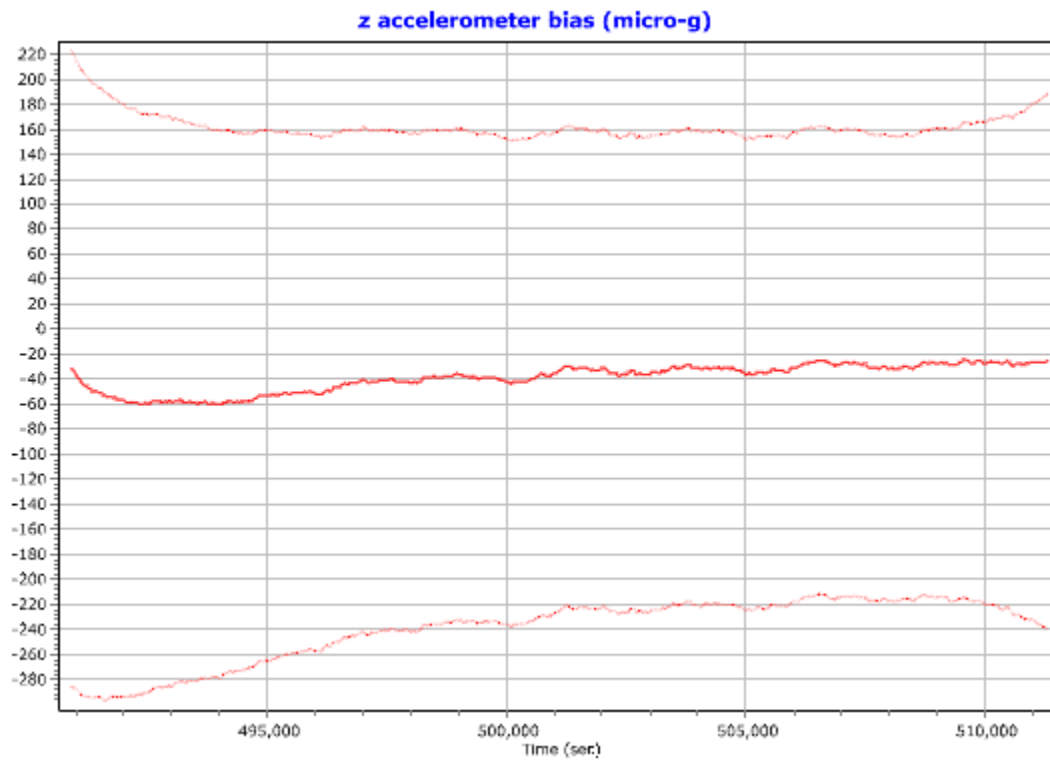
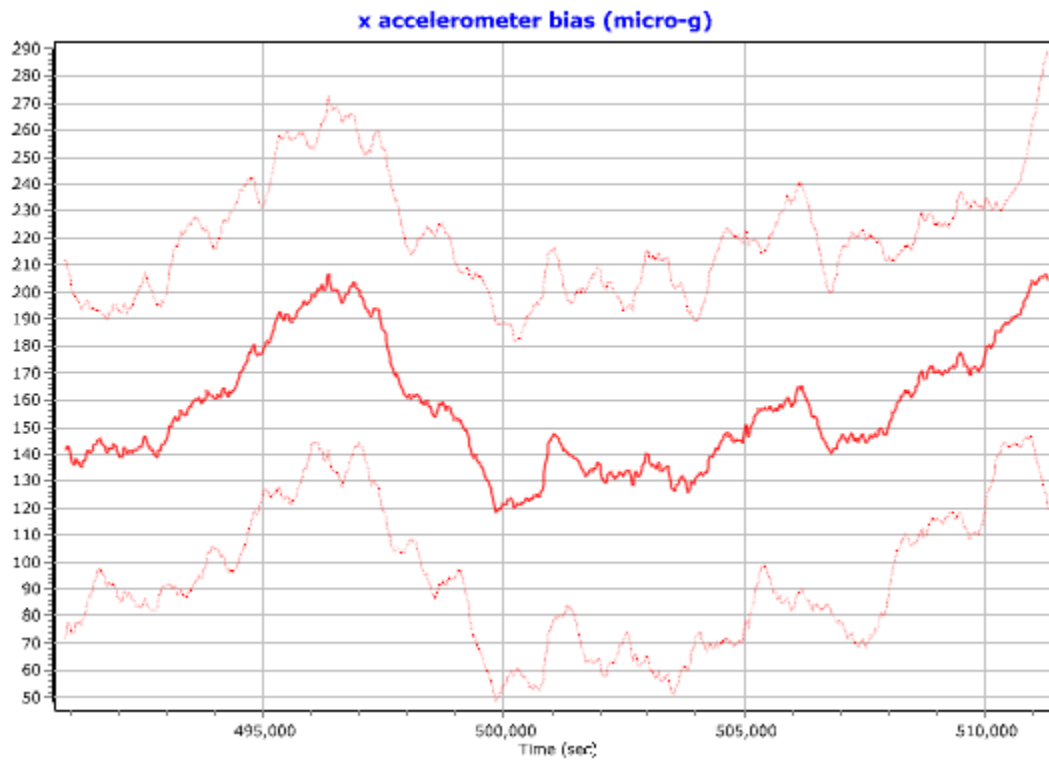
Percentages of epochs with DD_DOP over 10.00:

DOP over Tol:	0.0 %
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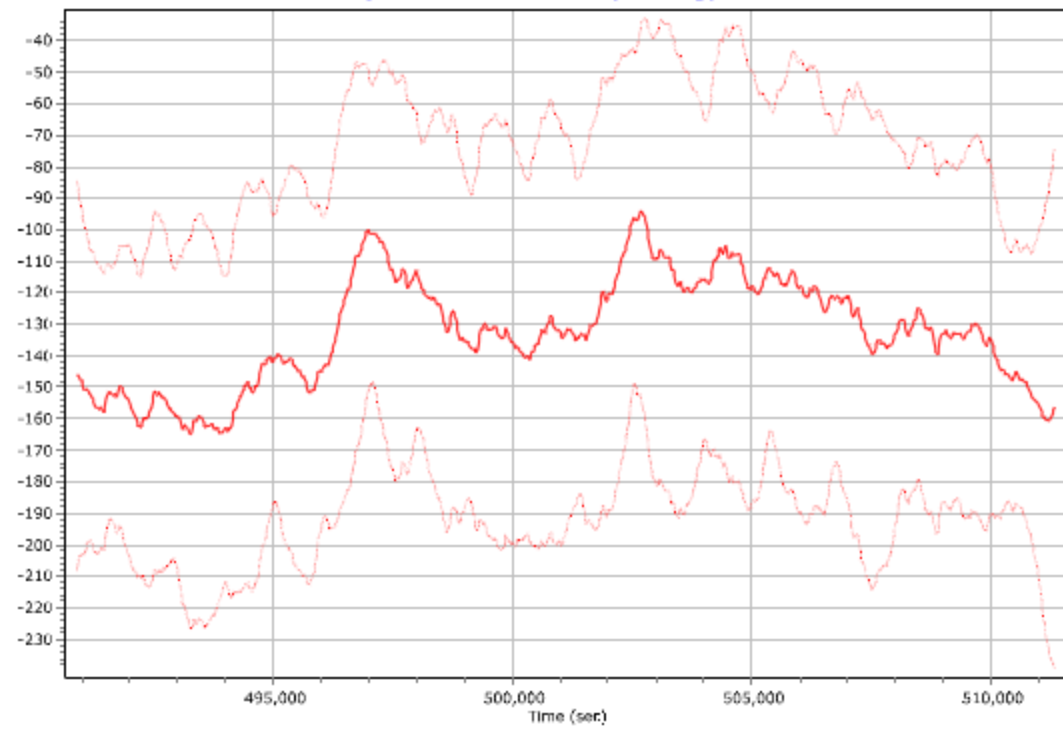
Baseline Distances:

Maximum:	81.663 (km)
Minimum:	8.443 (km)
Average:	37.433 (km)
First Epoch:	39.612 (km)
Last Epoch:	42.520 (km)

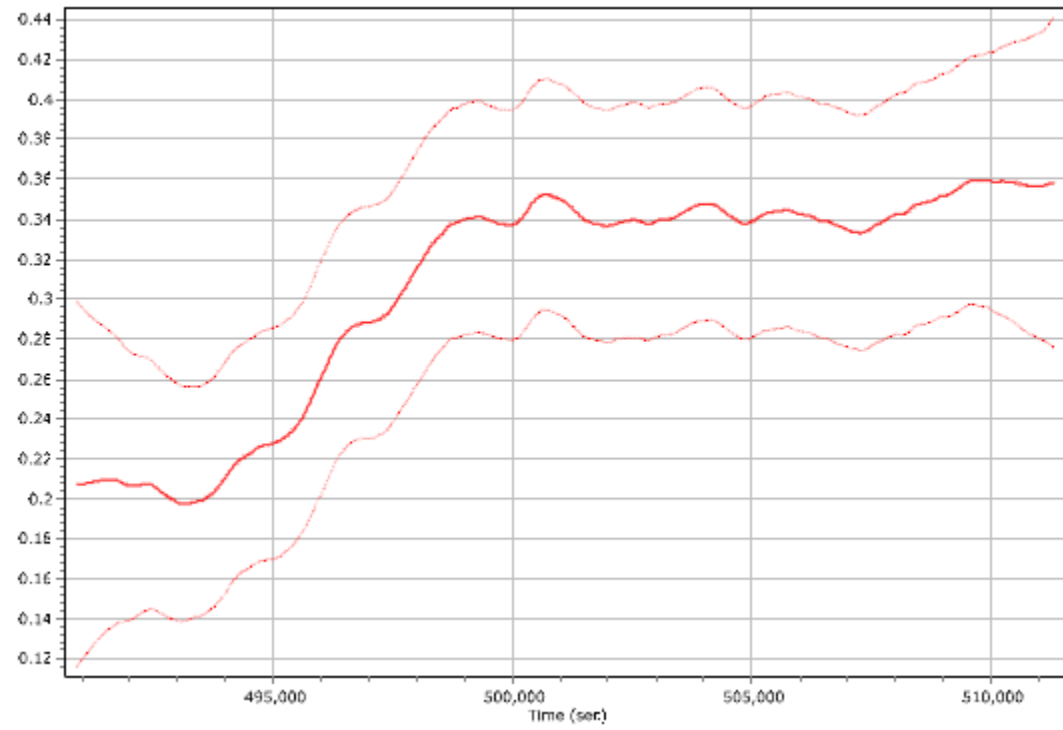
Mission 2 - 5418005b Sensor Errors



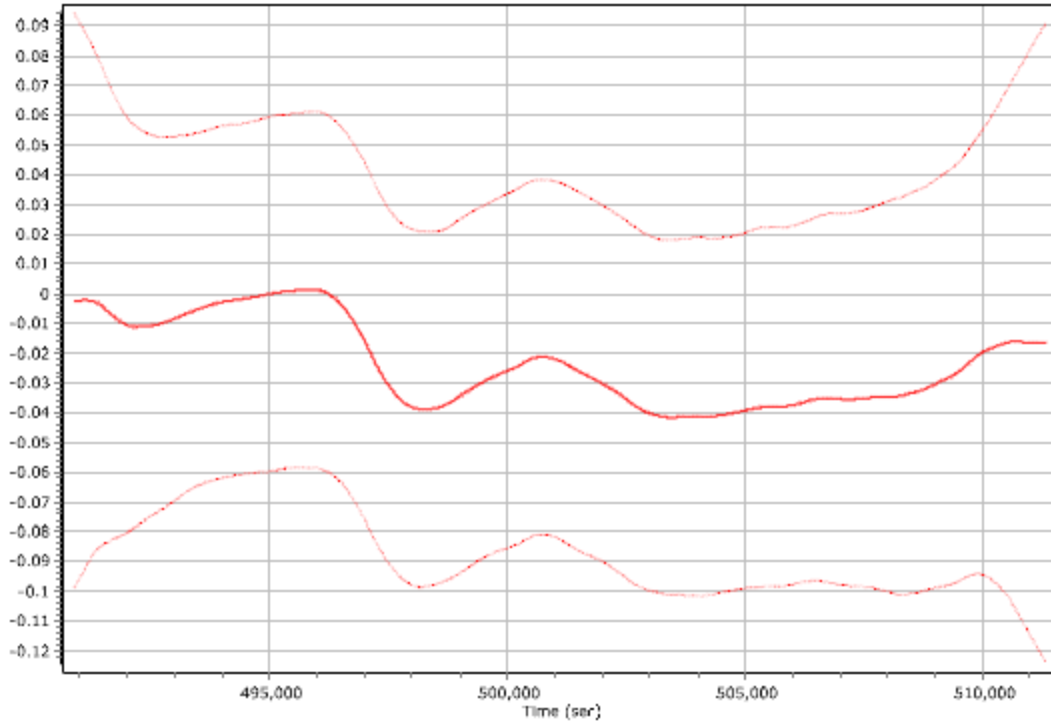
y accelerometer bias (micro-g)



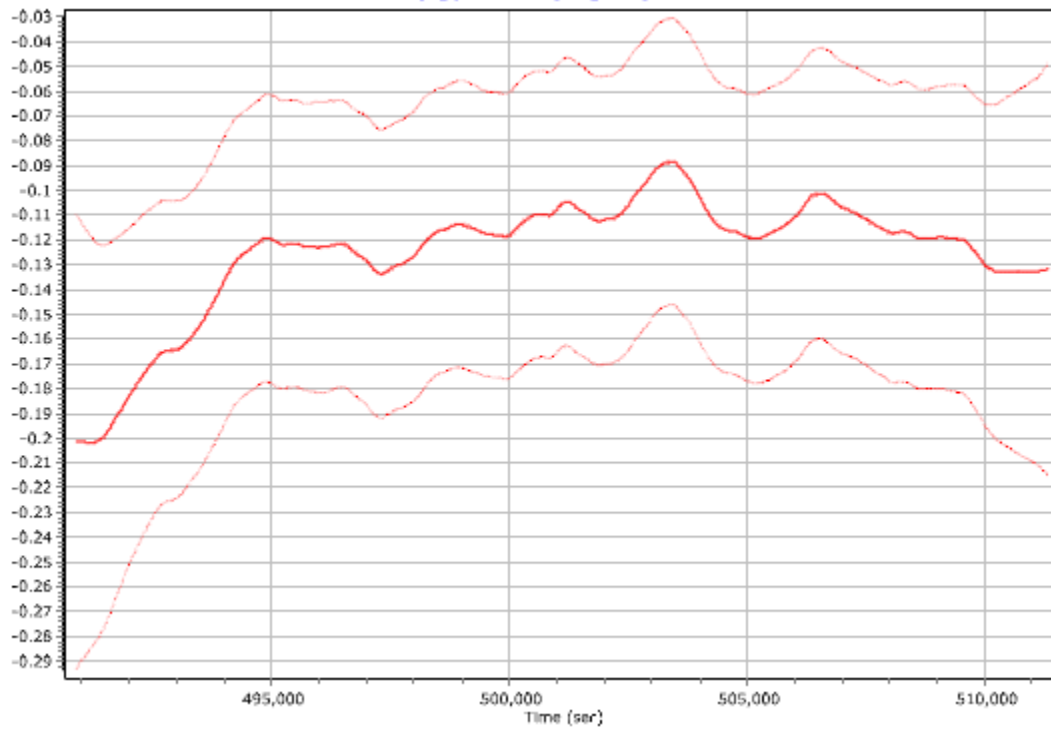
x gyro bias (deg/hr)



z gyro bias (deg/hr)



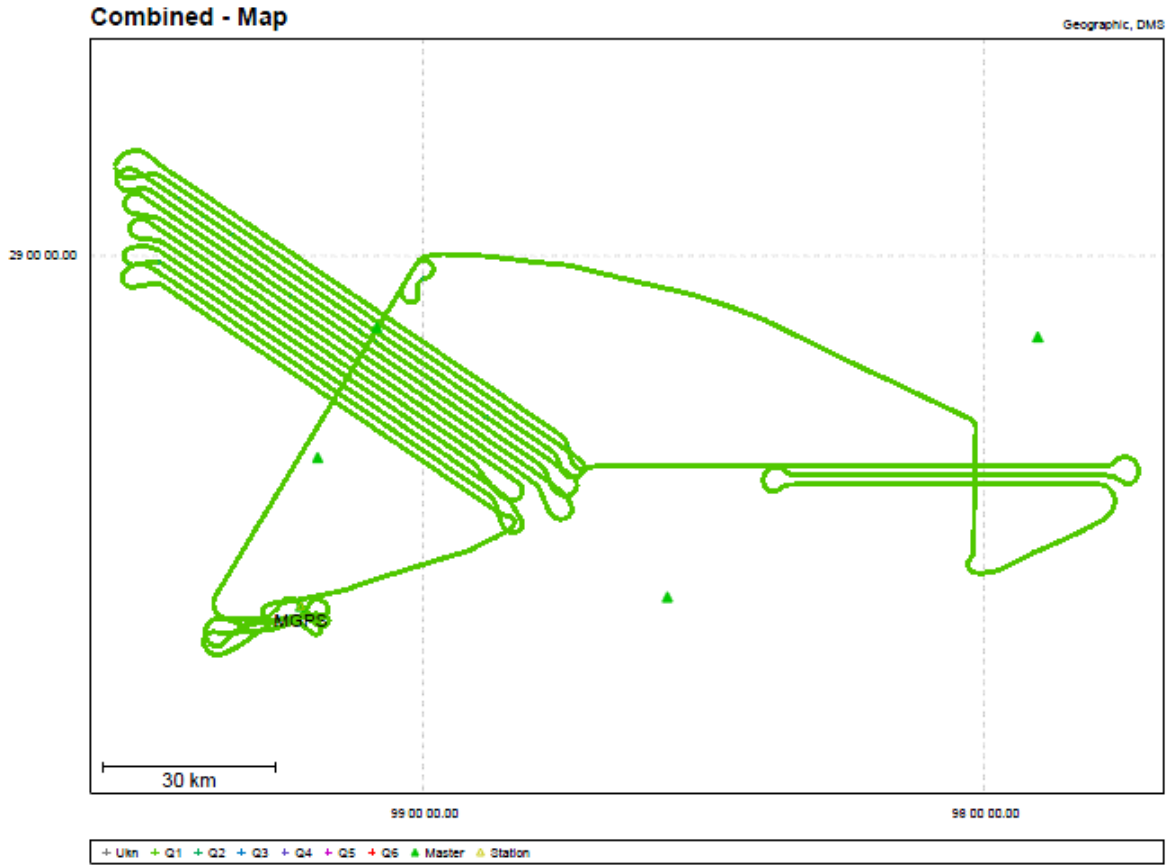
y gyro bias (deg/hr)

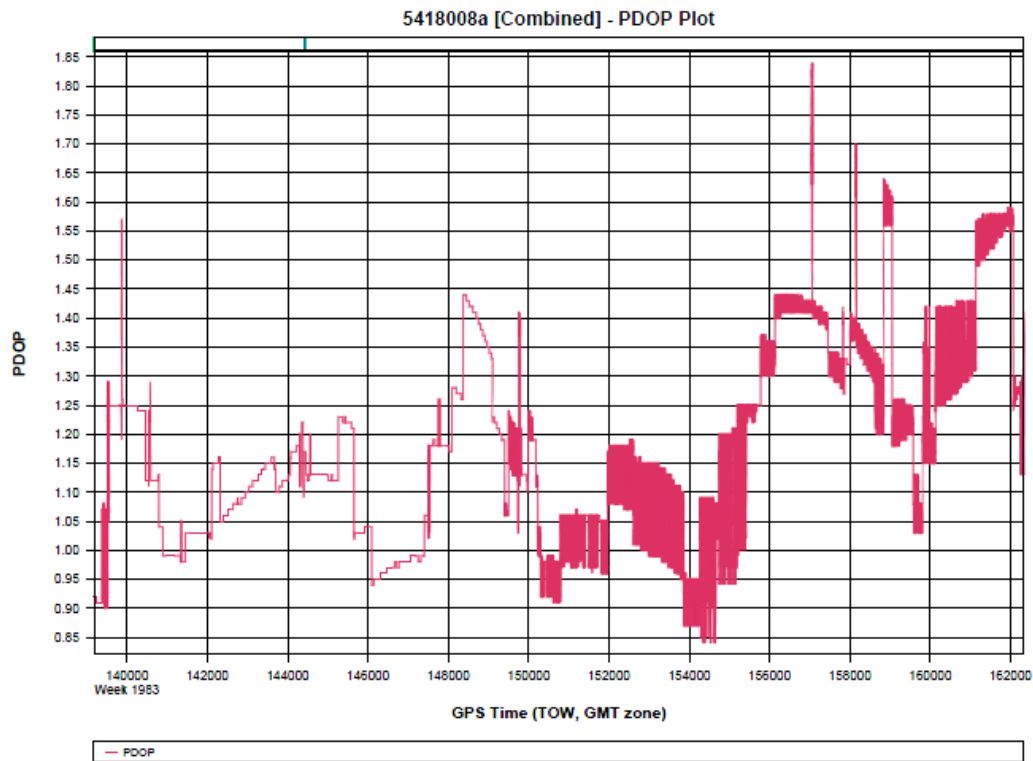
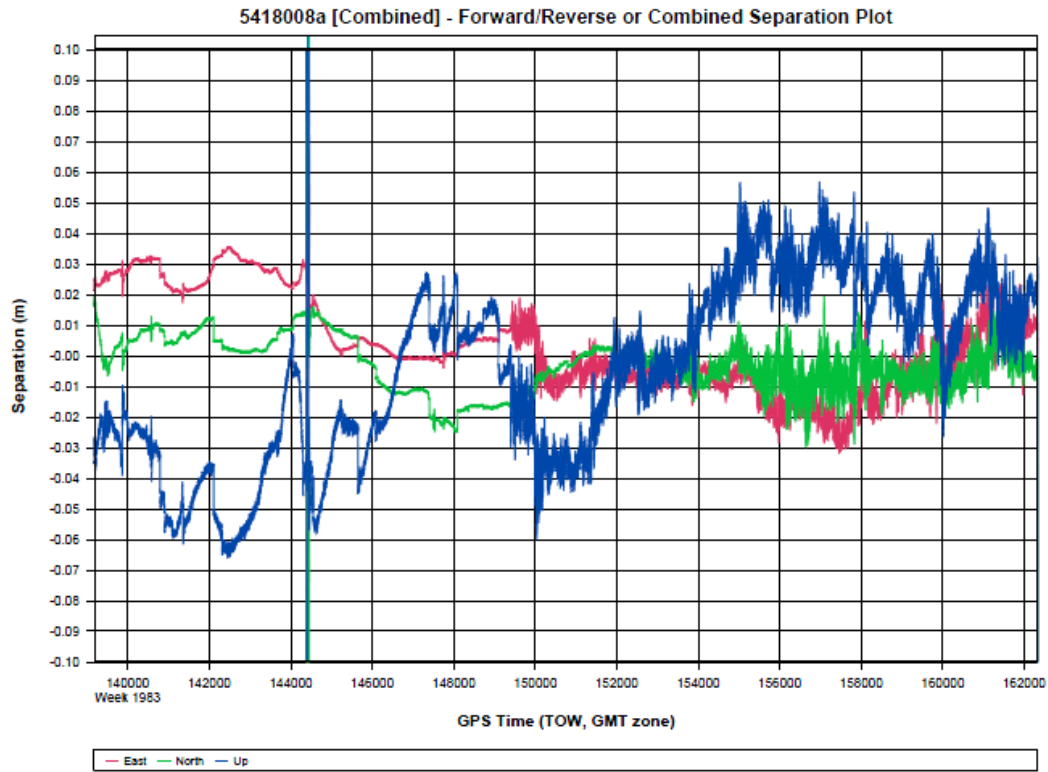


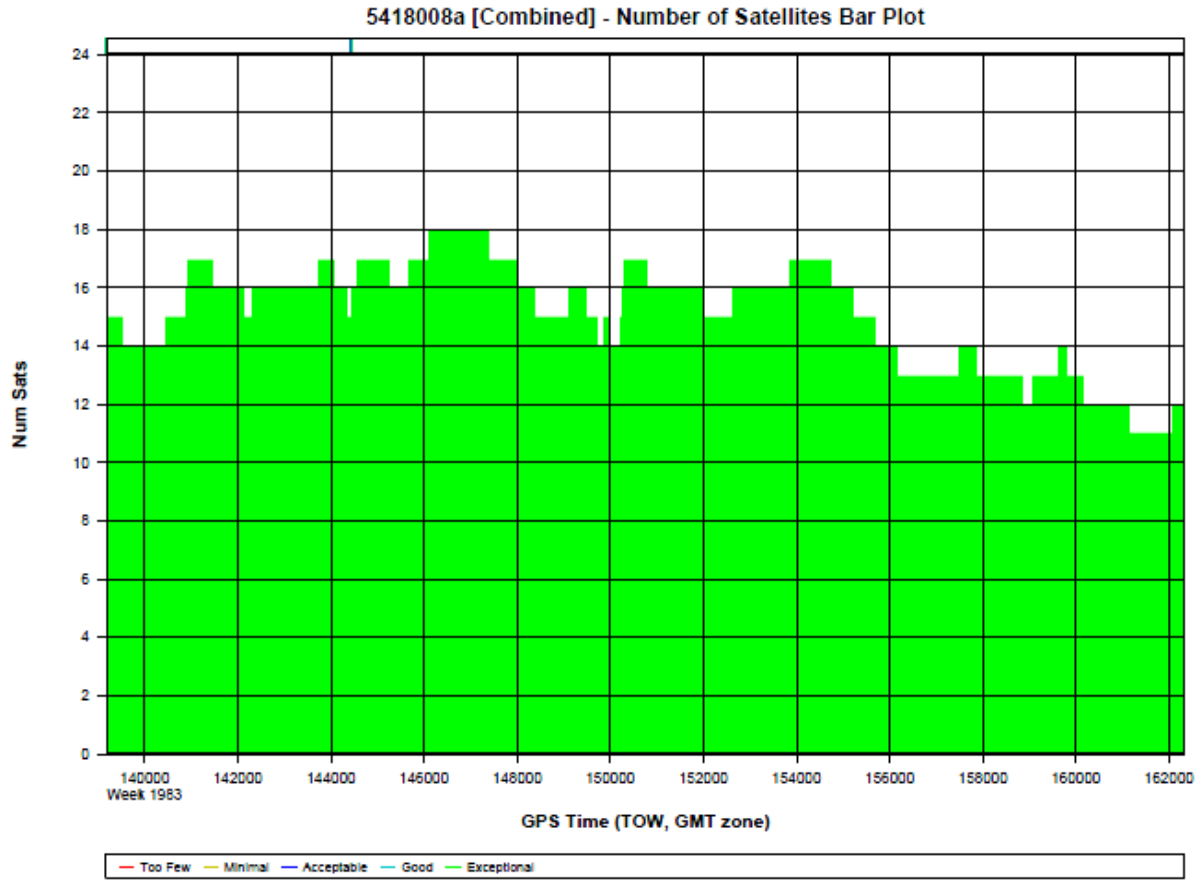
Mission 3 - 5418008a GNSS Processing

Project: 5418008a

GrafNav v8.50.4320







Processing Summary Information

Program: GrafNav
 Version: 8.50.4320
 Project: D:\Projects\3122_Atascosa-2018\Lidar\5418008a\05_INS-GPS_PROC\01_POS\5418008a\5418008a\GNSS\5418008a.gnv

Solution Type: Combined

Number of Epochs:

Total in GPB file: 23160
 No processed position: 1
 Missing Fwd or Rev: 4
 With bad C/A code: 0
 With bad L1 Phase: 0

Measurement RMS Values:

L1 Phase: 0.0203 (m)
C/A Code: 0.71 (m)
L1 Doppler: 0.510 (m/s)

Fwd/Rev Separation RMS Values:

East: 0.017 (m)
North: 0.012 (m)
Height: 0.038 (m)

Fwd/Rev Sep. RMS for dual FWD/REV fixes (23097 occurrences):

East: 0.016 (m)
North: 0.009 (m)
Height: 0.029 (m)

Quality Number Percentages:

Q 1: 99.7 %
Q 2: 0.3 %
Q 3: 0.0 %
Q 4: 0.0 %
Q 5: 0.0 %
Q 6: 0.0 %

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 %

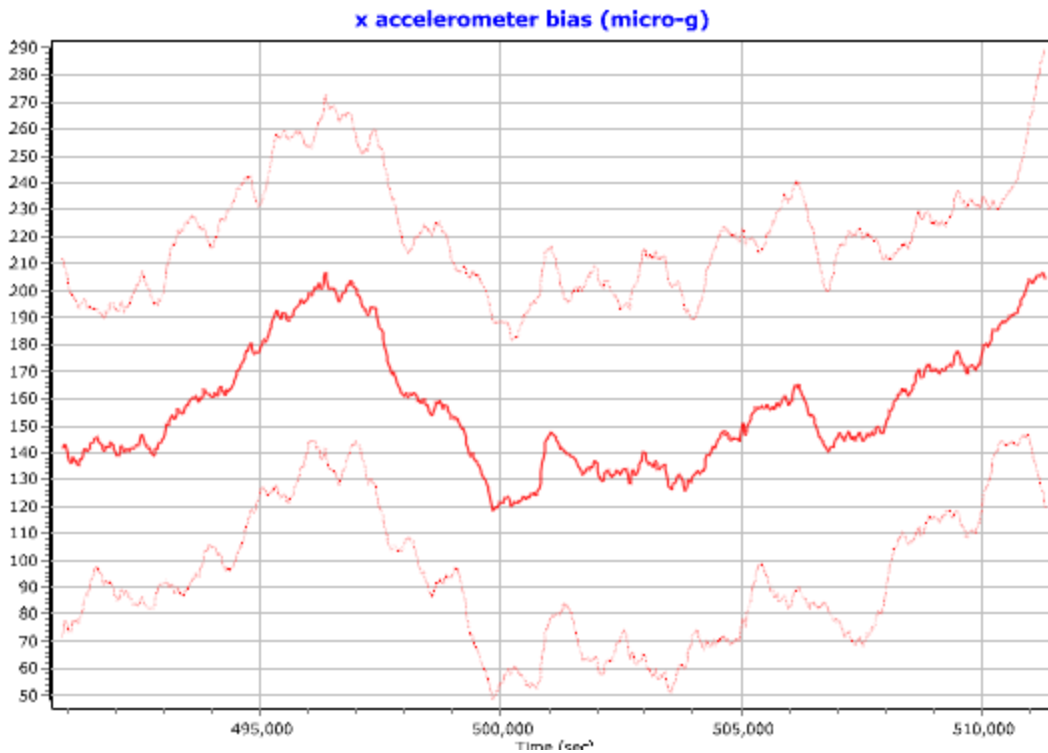
Percentages of epochs with DD_DOP over 10.00:

DOP over Tol: 0.0 %

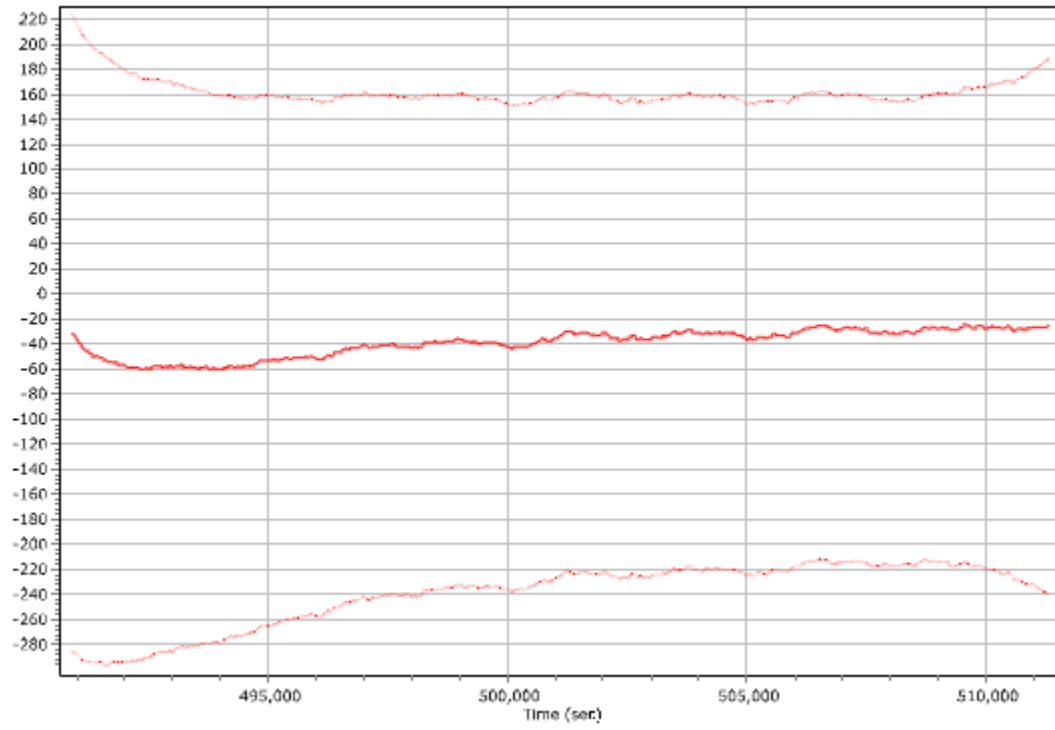
Baseline Distances:

Maximum: 103.497 (km)
Minimum: 2.505 (km)
Average: 46.238 (km)
First Epoch: 47.799 (km)
Last Epoch: 47.738 (km)

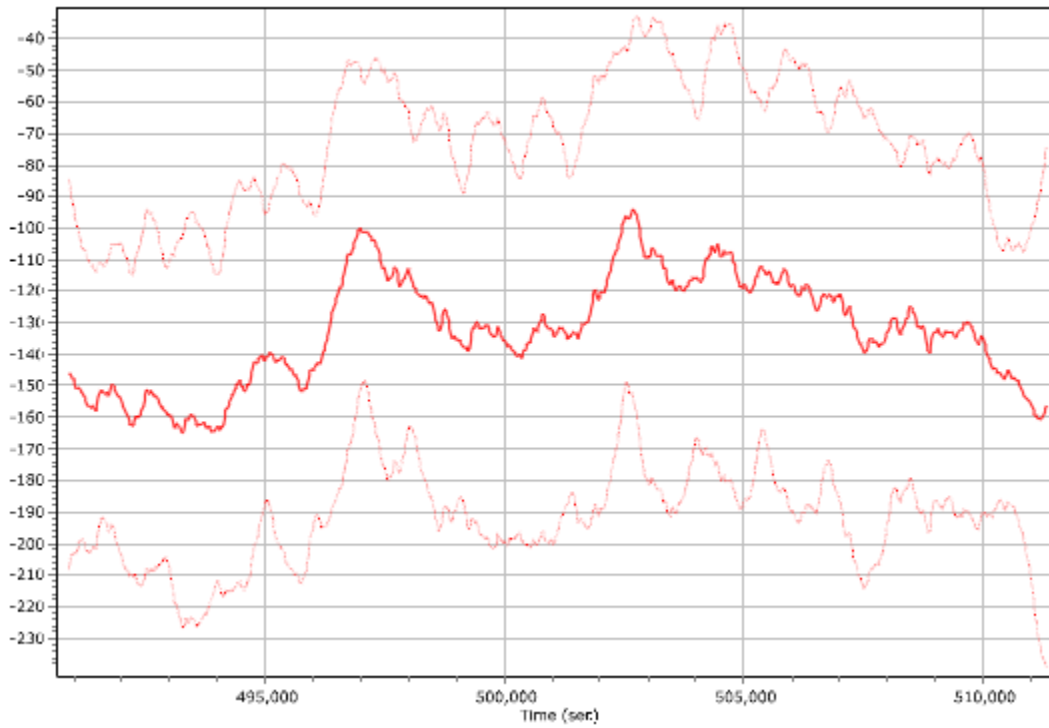
Mission 3 - 5418008a Sensor Errors



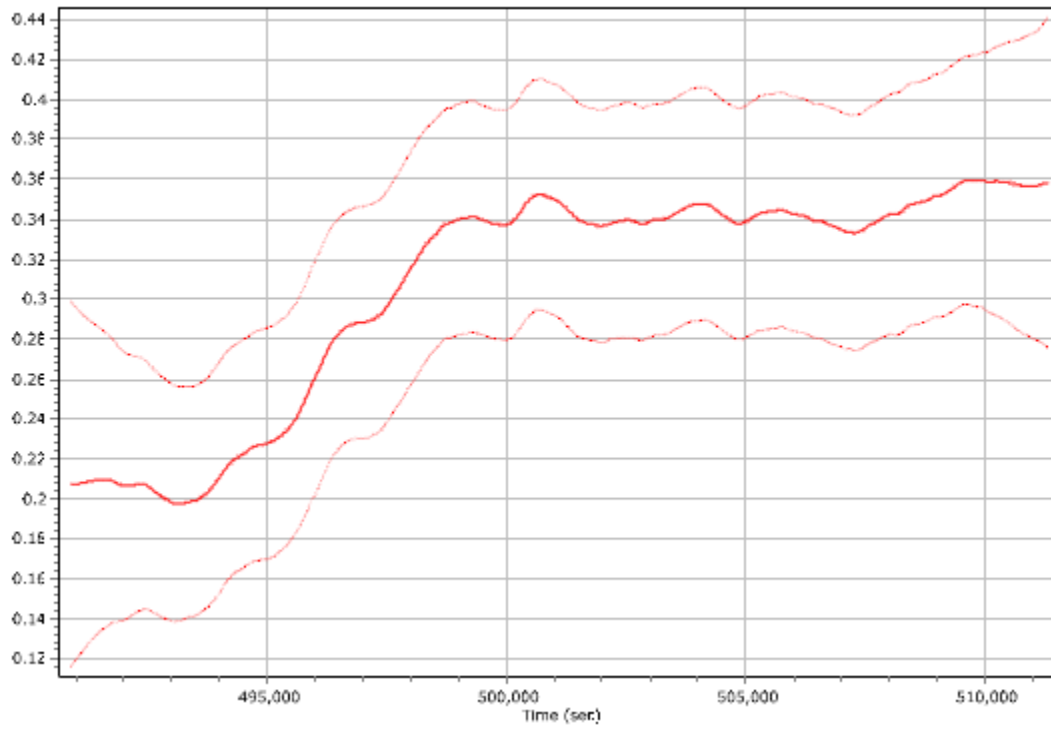
z accelerometer bias (micro-g)



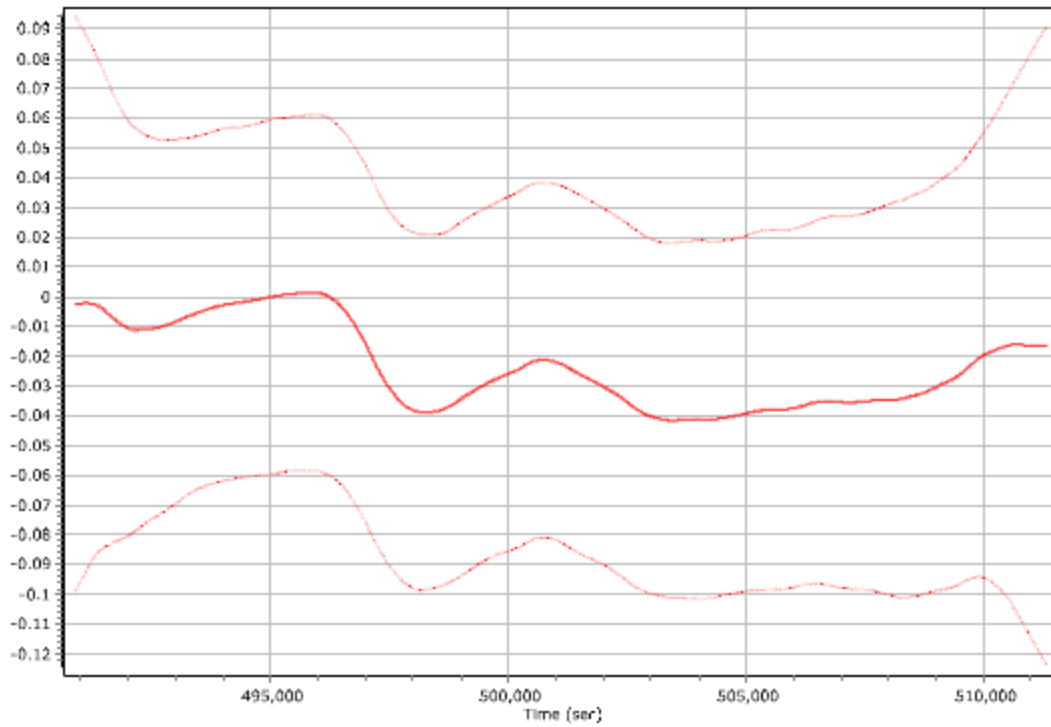
y accelerometer bias (micro-g)



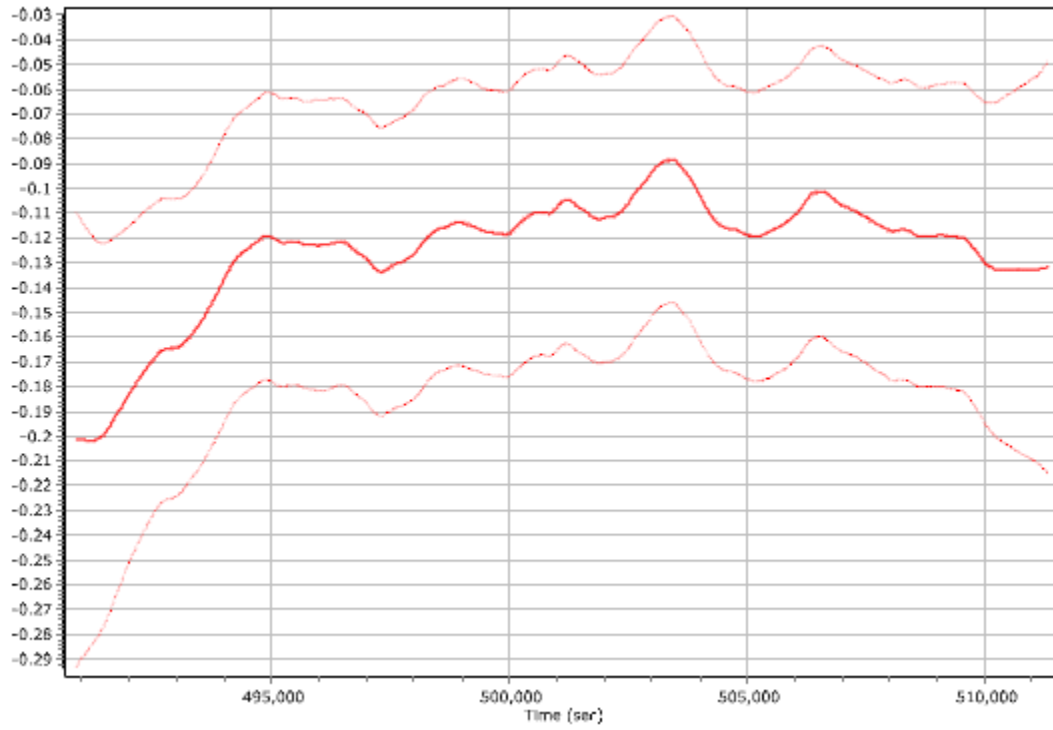
x gyro bias (deg/hr)



z gyro bias (deg/hr)



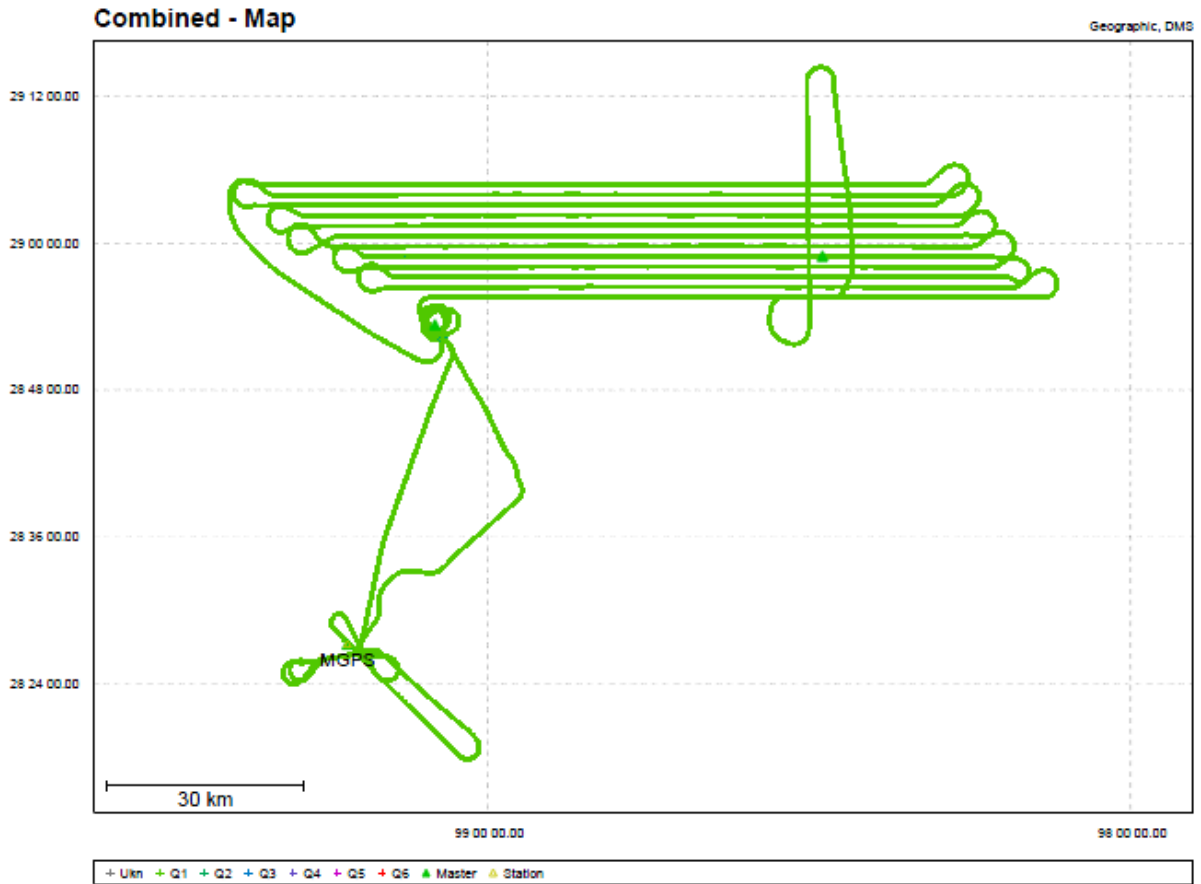
y gyro bias (deg/hr)

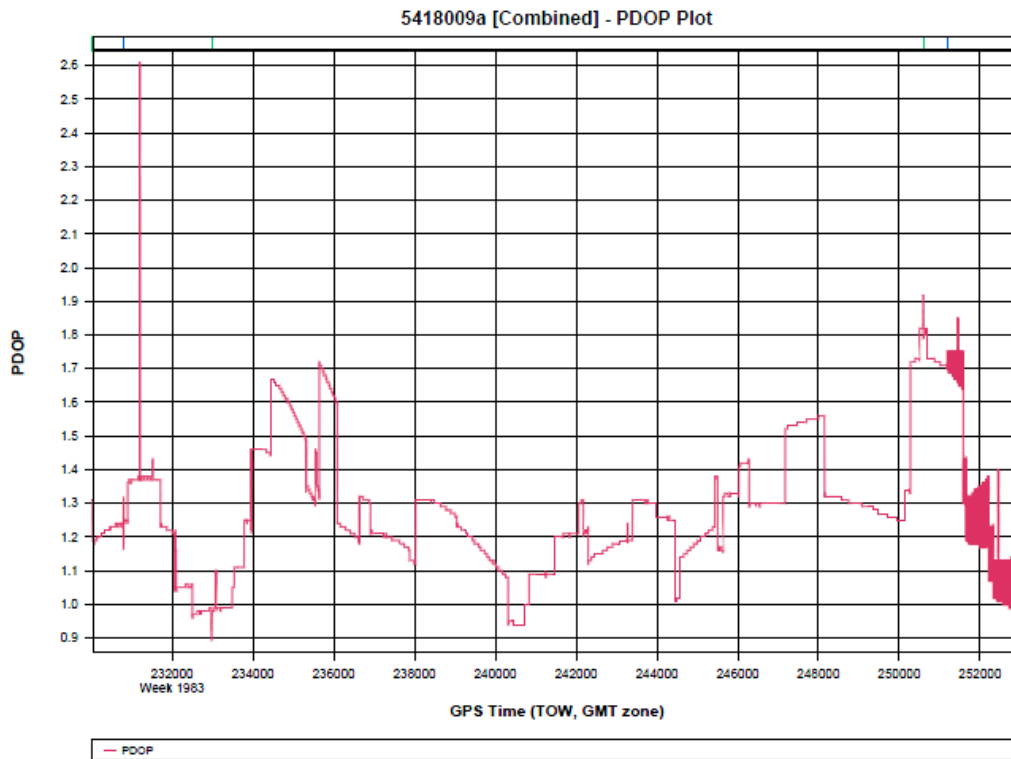
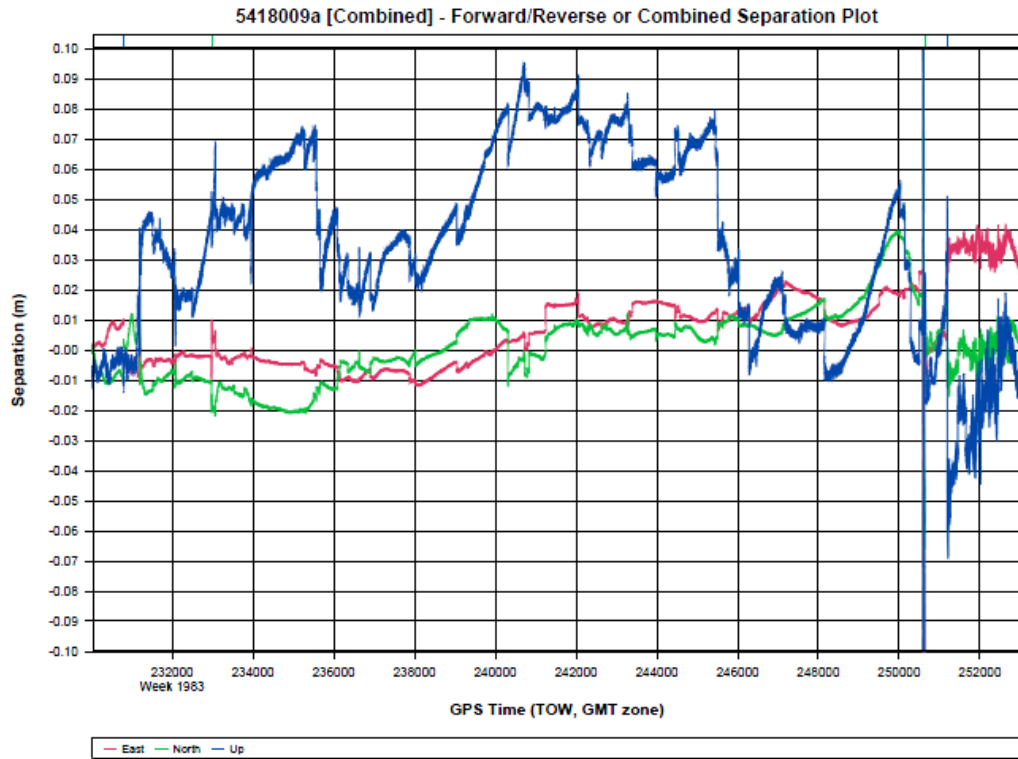


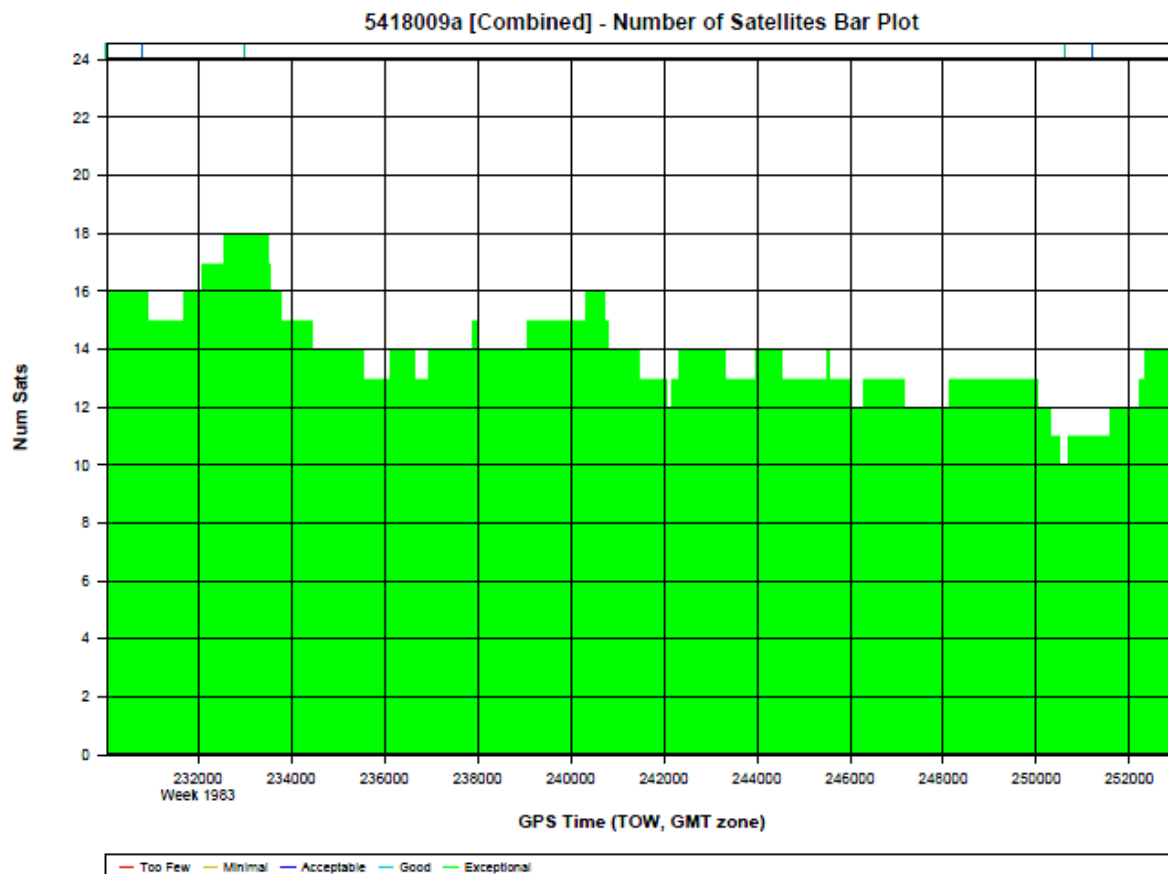
Mission 4 - 5418009a GNSS Processing

Project: 5418009a

GrafNav v8.50.4320







Processing Summary Information

Program: GrafNav
Version: 8.50.4320
Project: D:\Projects\3122_Atascosa-2018\Lidar\5418009a\05_INS-GPS_PROC\01_POS\5418009a\5418009a\GNSS\5418009a.gnv

Solution Type: Combined

Number of Epochs:

Total in GPB file: 22989
No processed position: 1
Missing Fwd or Rev: 10

With bad C/A code: 0

With bad L1 Phase: 0

Measurement RMS Values:

L1 Phase: 0.0208 (m)

C/A Code: 0.71 (m)

L1 Doppler: 0.507 (m/s)

Fwd/Rev Separation RMS Values:

East: 0.015 (m)

North: 0.012 (m)

Height: 0.049 (m)

Fwd/Rev Sep. RMS for dual FWD/REV fixes (22946 occurrences):

East: 0.014 (m)

North: 0.012 (m)

Height: 0.046 (m)

Quality Number Percentages:

Q 1: 99.8 %

Q 2: 0.2 %

Q 3: 0.0 %

Q 4: 0.0 %

Q 5: 0.0 %

Q 6: 0.0 %

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 %

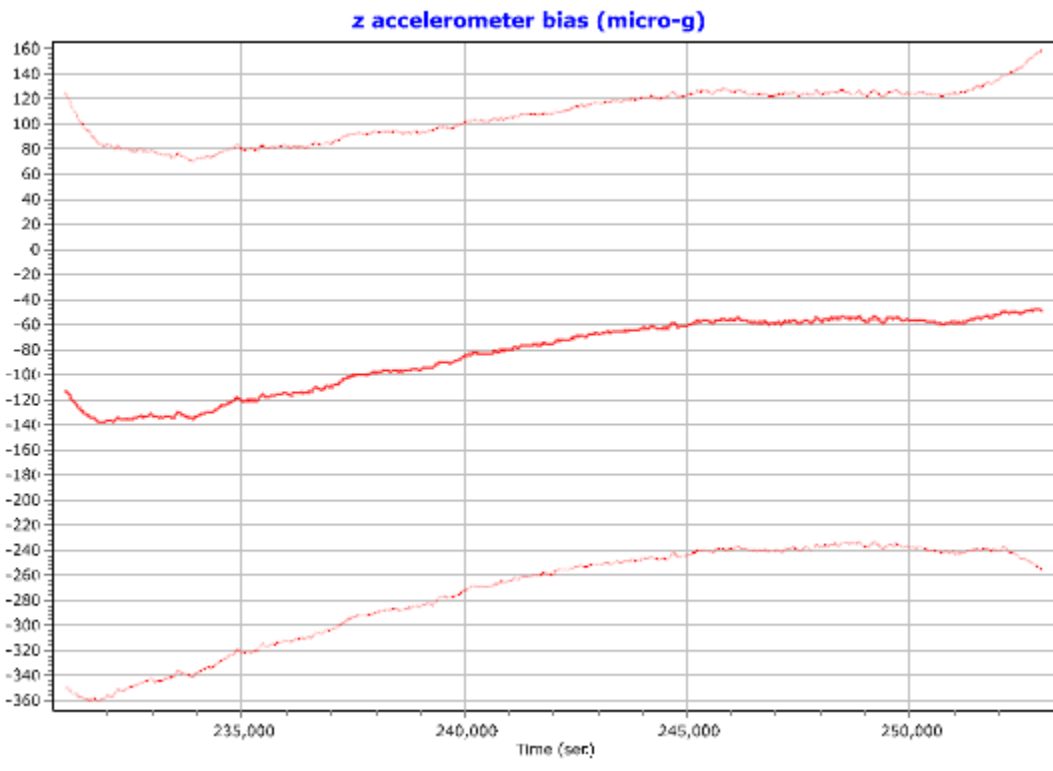
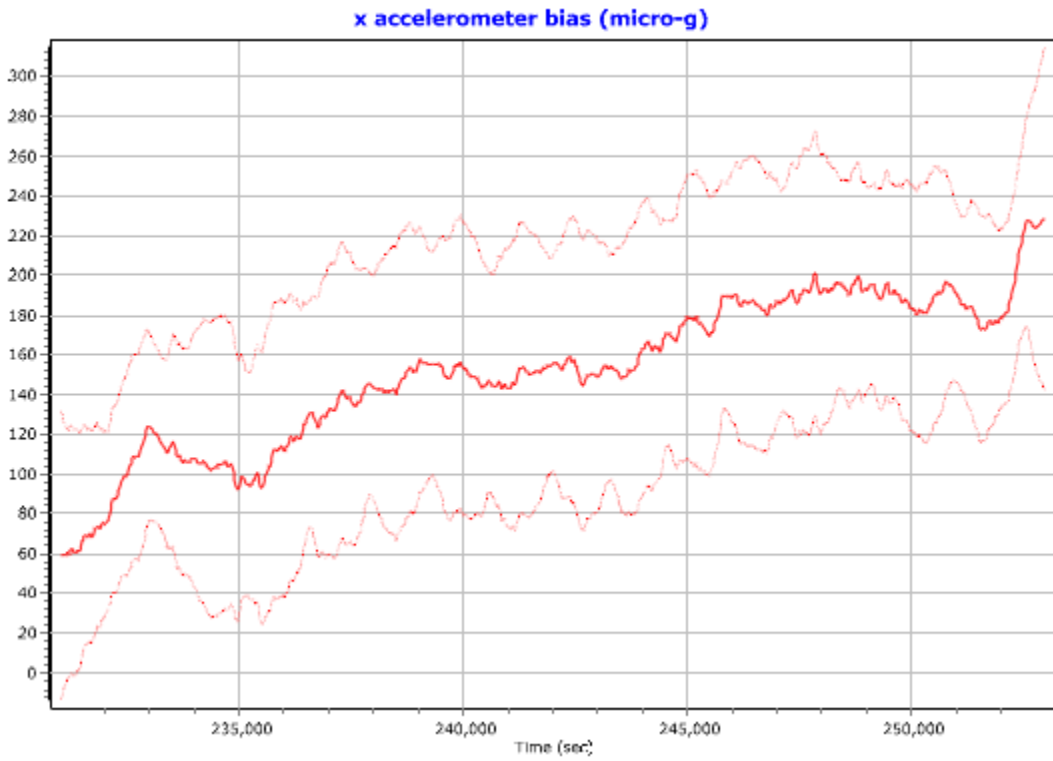
Percentages of epochs with DD_DOP over 10.00:

DOP over Tol:	0.0 %
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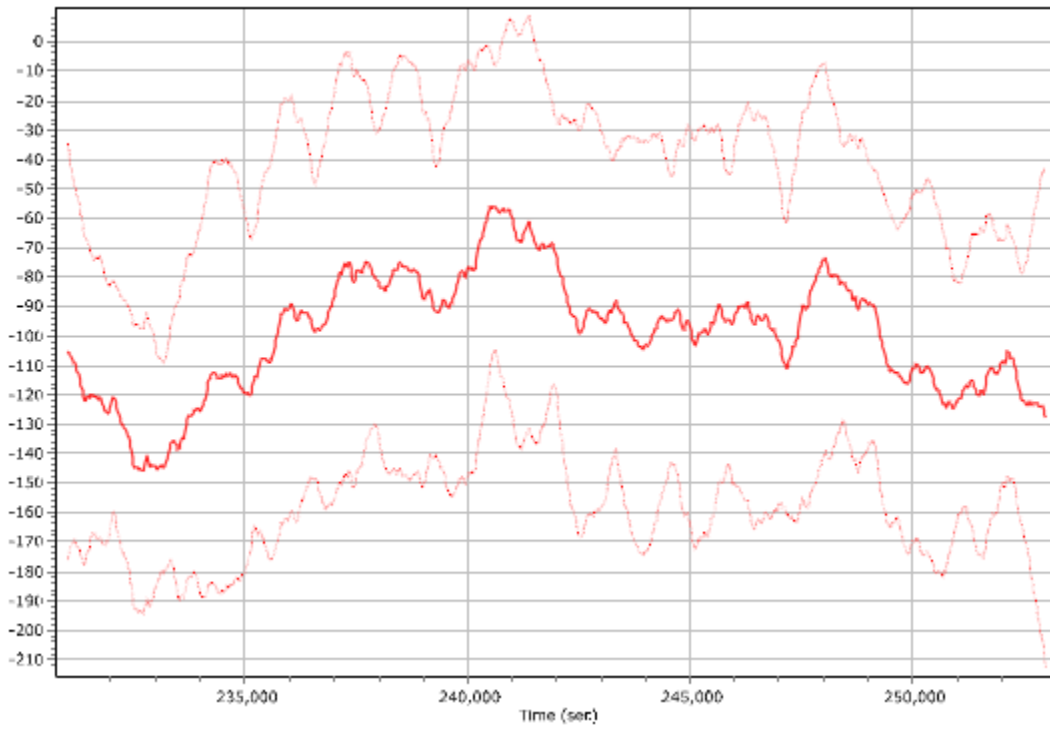
Baseline Distances:

Maximum:	81.210 (km)
Minimum:	7.049 (km)
Average:	41.616 (km)
First Epoch:	45.329 (km)
Last Epoch:	45.689 (km)

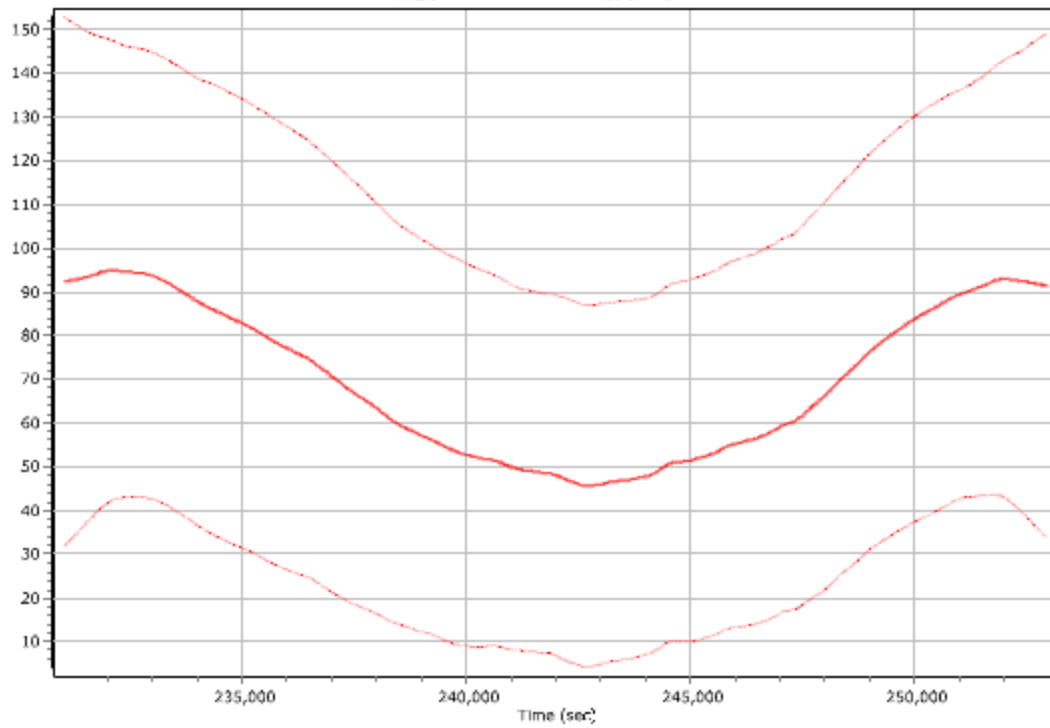
Mission 4 - 5418009a Sensor Errors



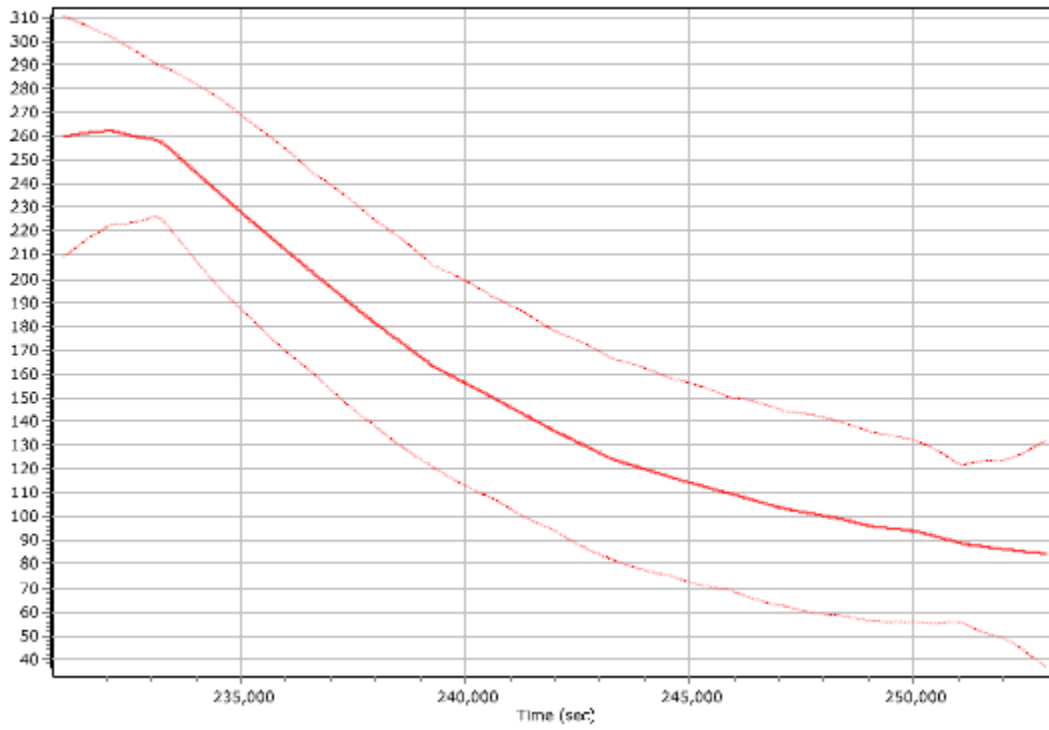
y accelerometer bias (micro-g)



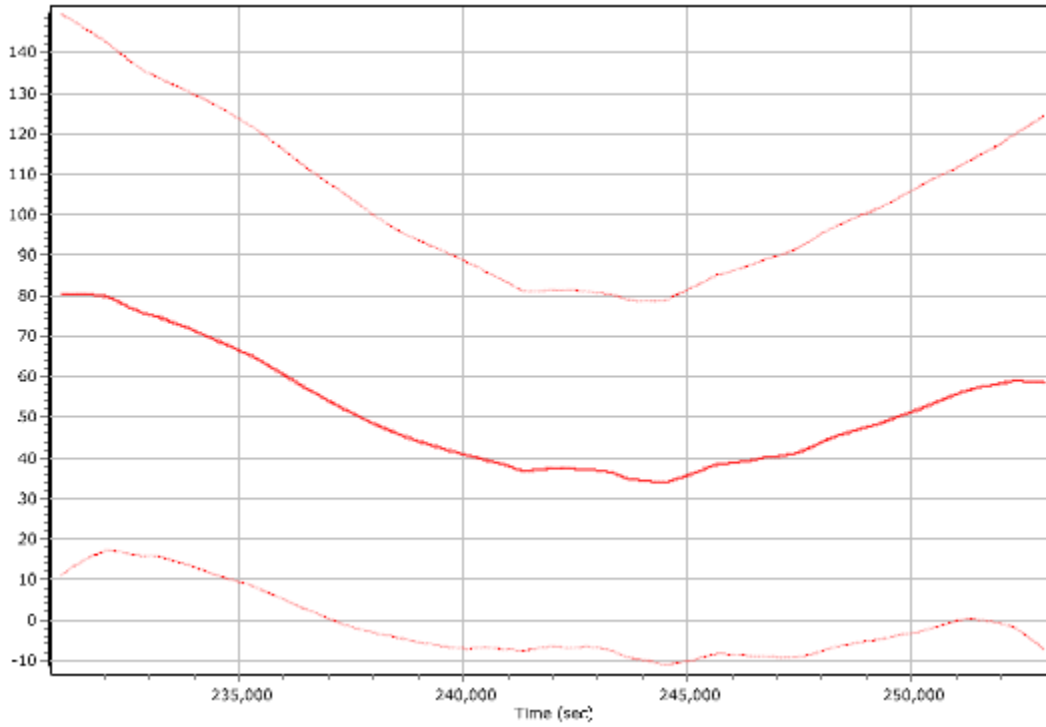
x gyro scale error (ppm)



z gyro scale error (ppm)



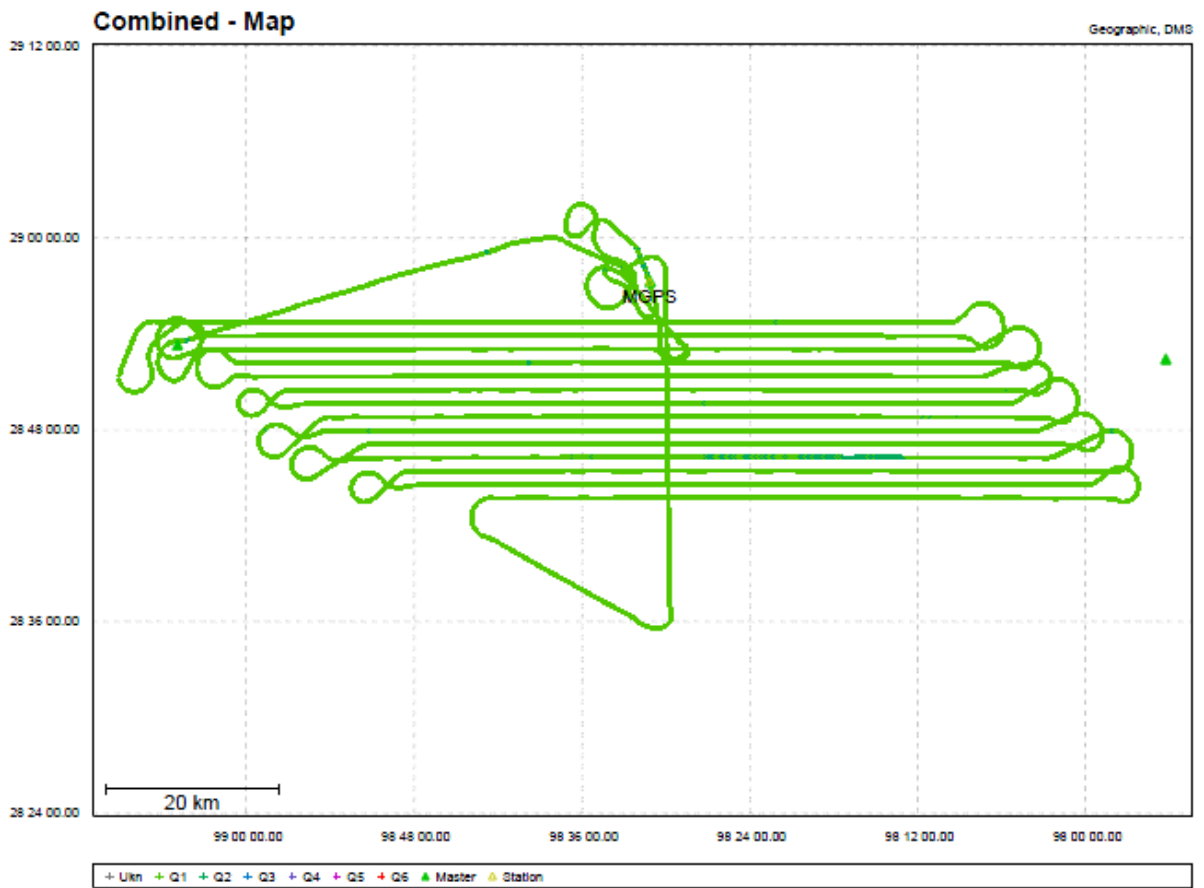
y gyro scale error (ppm)

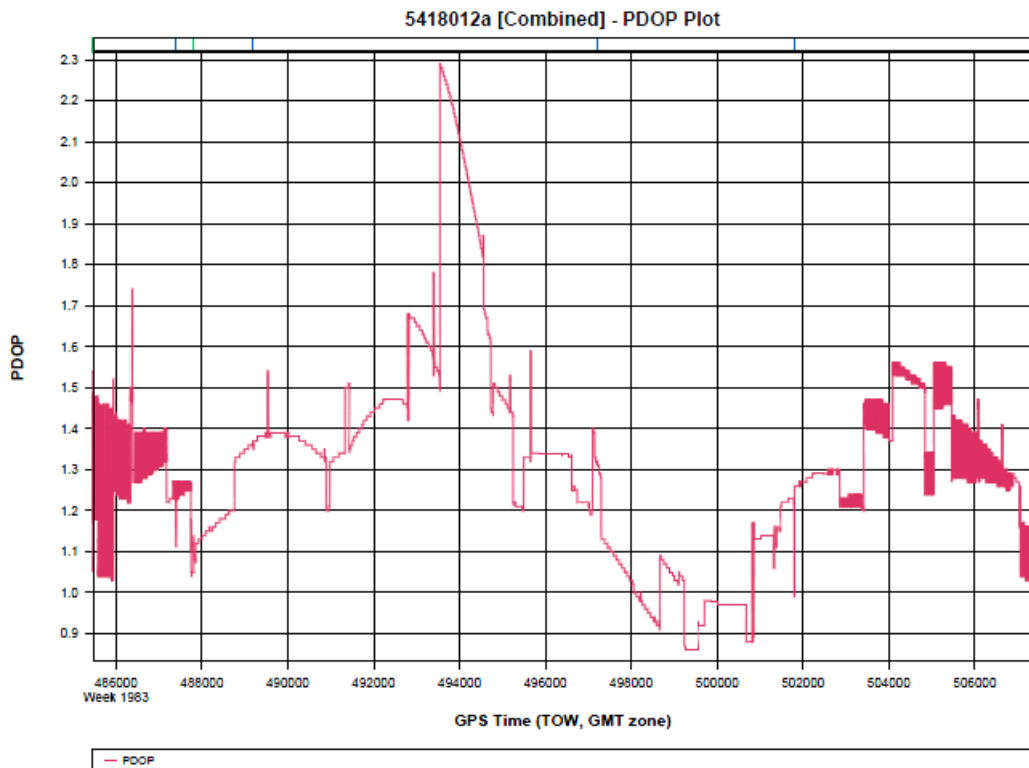
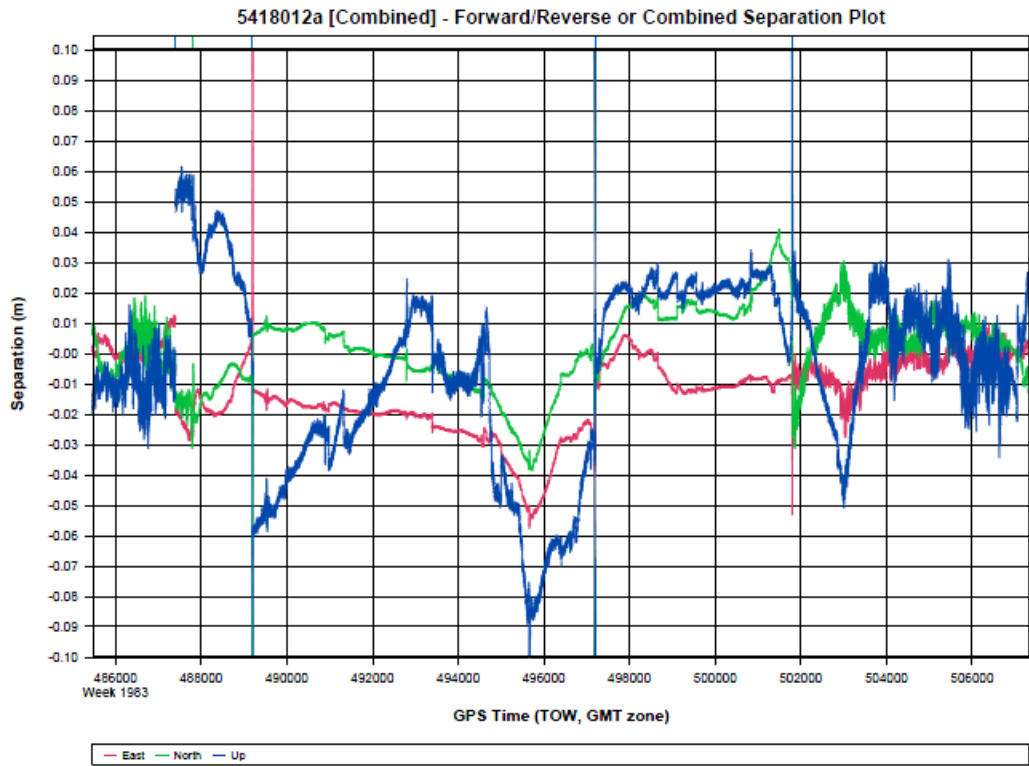


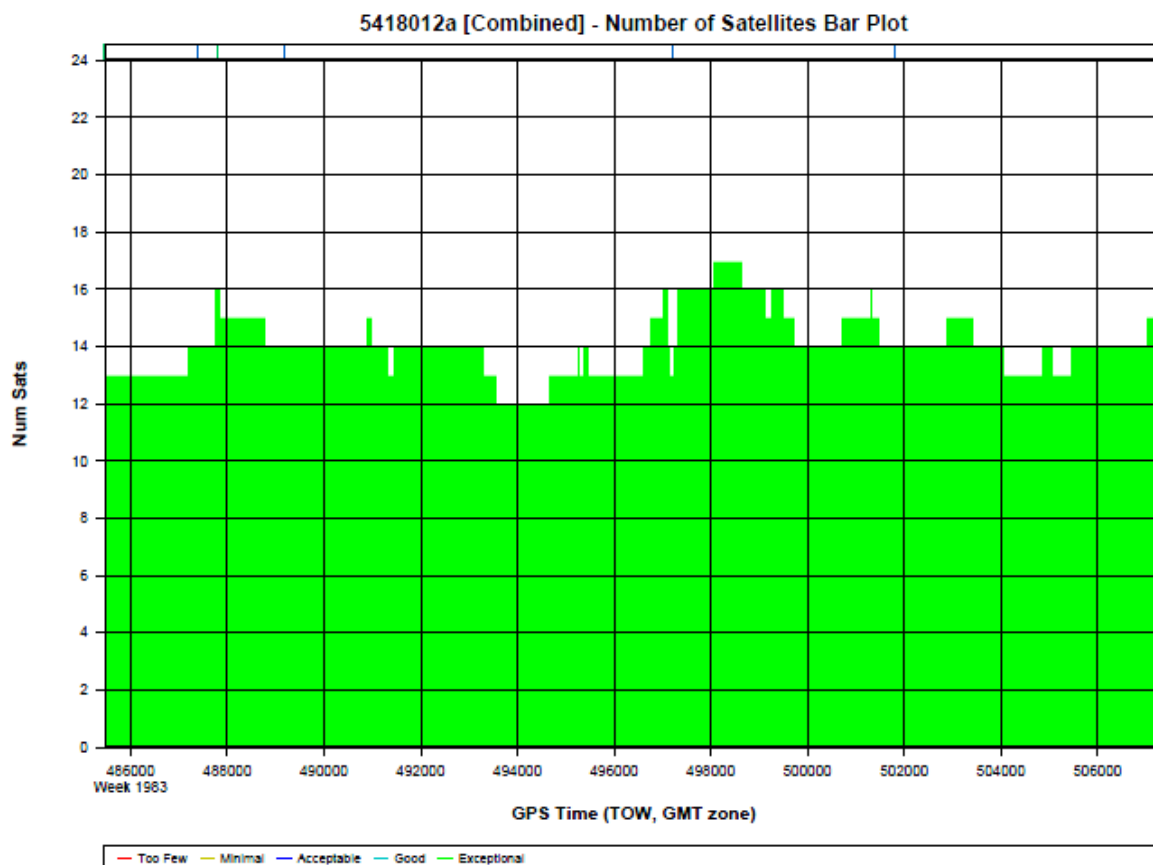
Mission 5 - 5418012a GNSS Processing

Project: 5418012a

GrafNav v8.50.4320







Processing Summary Information

Program: GrafNav
 Version: 8.50.4320
 Project: D:\Projects\3122_Atascosa-2018\Lidar\5418012a\05_INS-GPS_PROC\01_POS\5418012a\5418012a\GNSS\5418012a.gnv

Solution Type: Combined

Number of Epochs:

Total in GPB file:	21881
No processed position:	6
Missing Fwd or Rev:	9
With bad C/A code:	0
With bad L1 Phase:	0

Measurement RMS Values:

L1 Phase: 0.0188 (m)
C/A Code: 0.69 (m)
L1 Doppler: 0.522 (m/s)

Fwd/Rev Separation RMS Values:

East: 0.018 (m)
North: 0.014 (m)
Height: 0.034 (m)

Fwd/Rev Sep. RMS for dual FWD/REV fixes (21862 occurrences):

East: 0.018 (m)
North: 0.013 (m)
Height: 0.030 (m)

Quality Number Percentages:

Q 1: 98.4 %
Q 2: 1.6 %
Q 3: 0.0 %
Q 4: 0.0 %
Q 5: 0.0 %
Q 6: 0.0 %

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 %

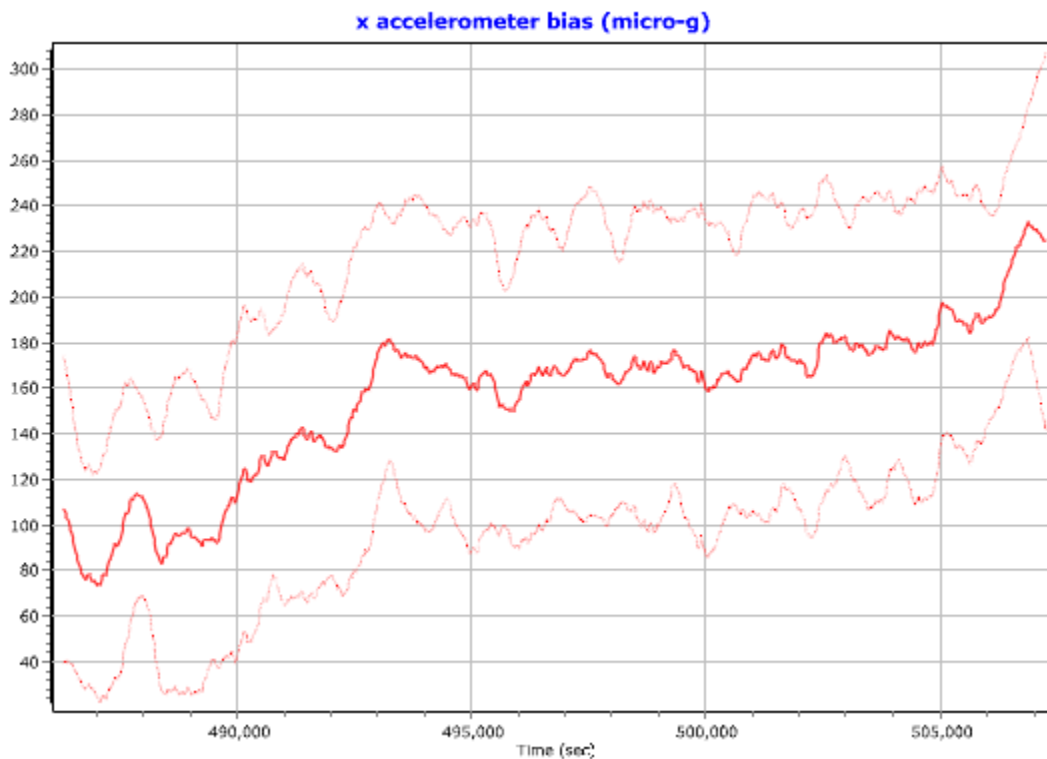
Percentages of epochs with DD_DOP over 10.00:

DOP over Tol: 0.0 %

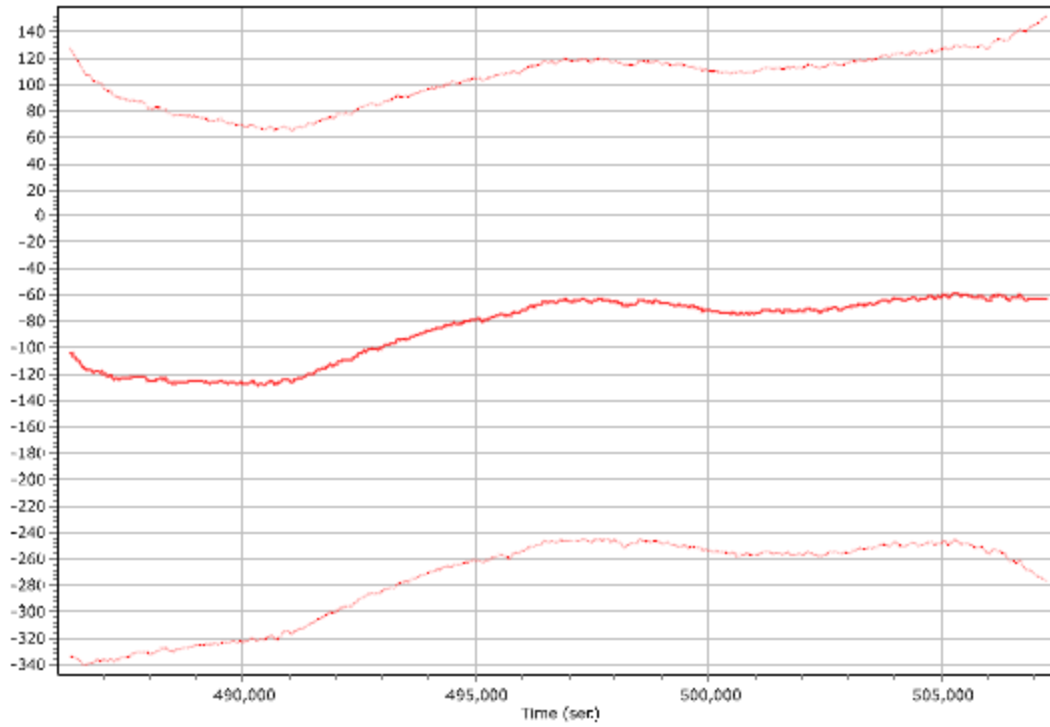
Baseline Distances:

Maximum: 63.145 (km)
Minimum: 1.933 (km)
Average: 26.764 (km)
First Epoch: 30.276 (km)
Last Epoch: 30.257 (km)

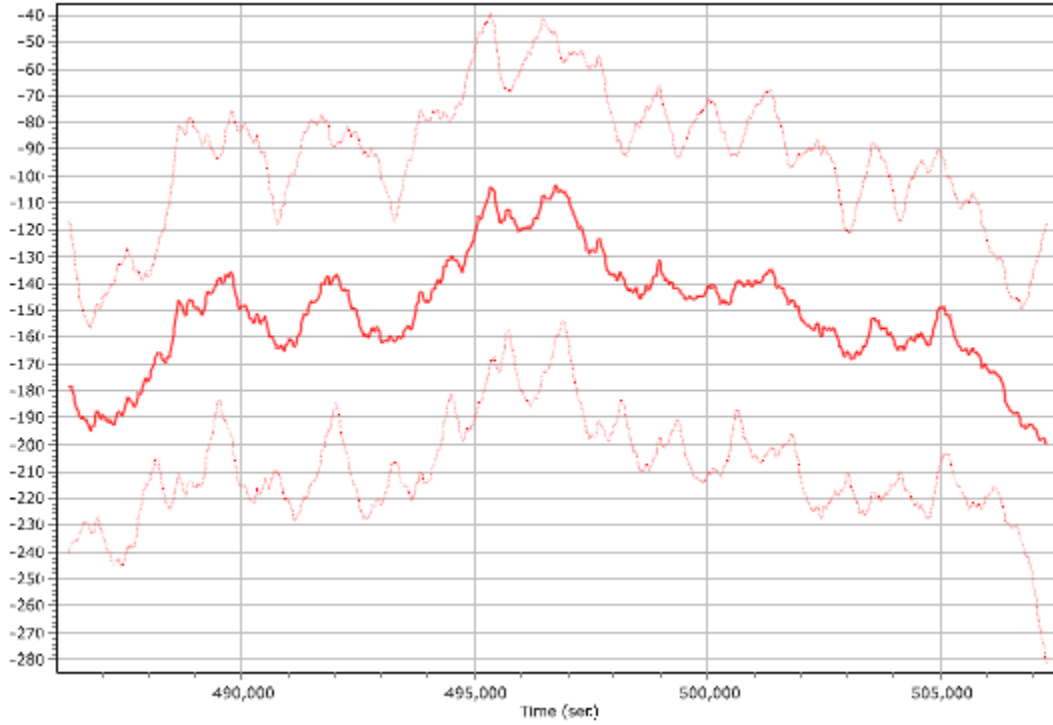
Mission 5 - 5418012a Sensor Errors



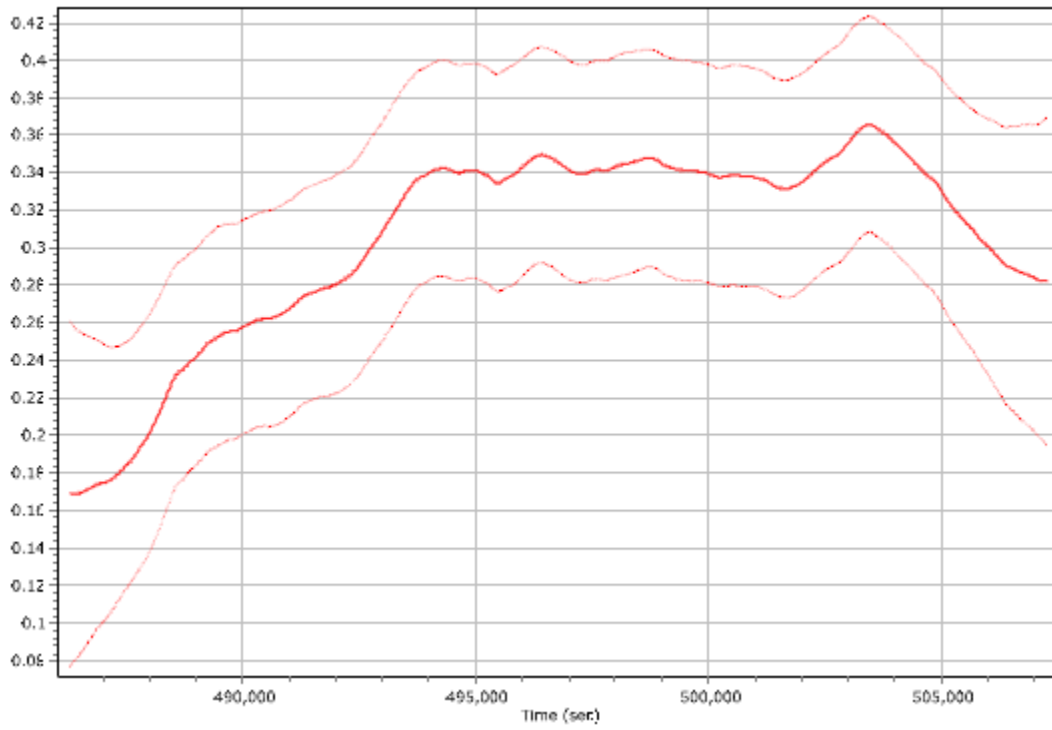
z accelerometer bias (micro-g)



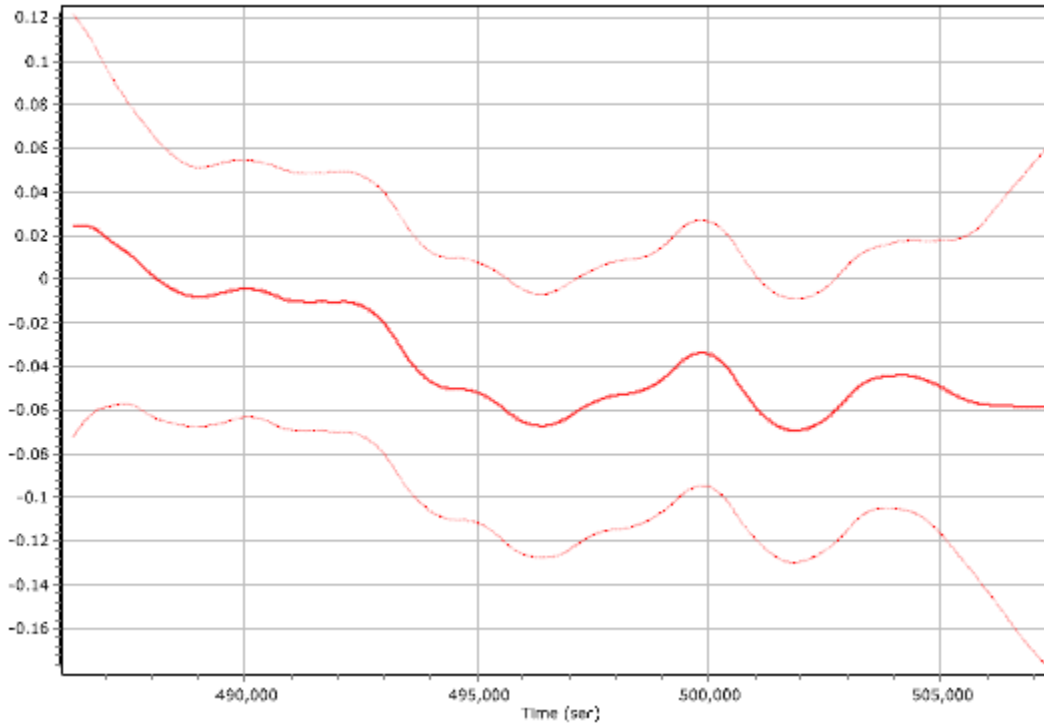
y accelerometer bias (micro-g)



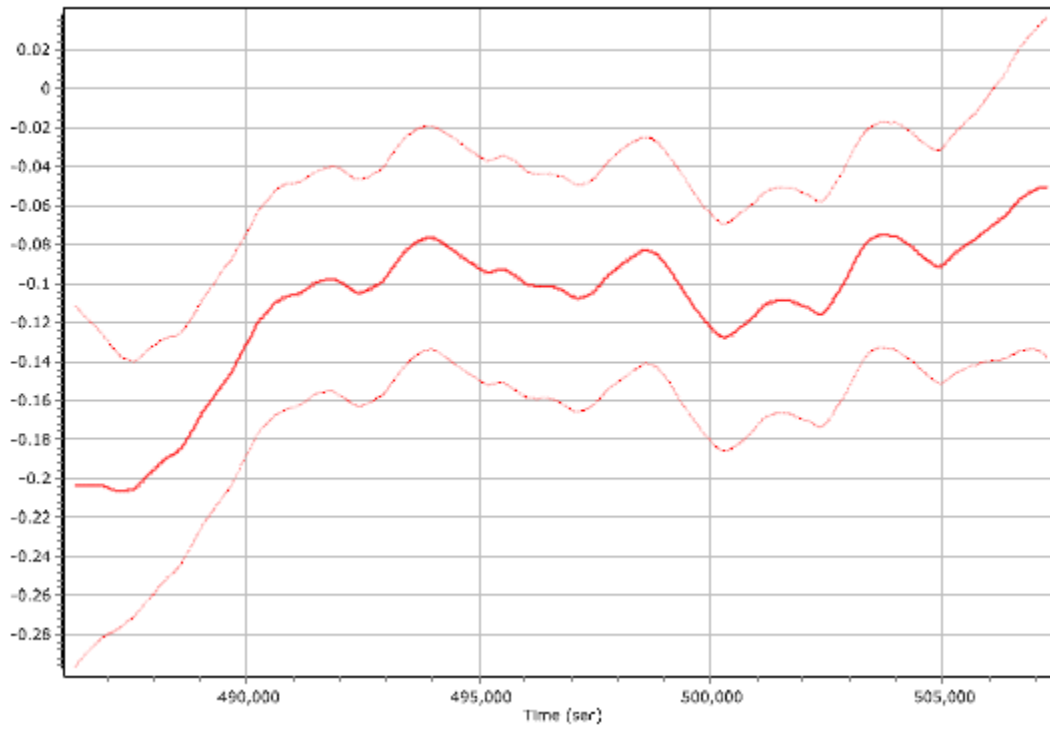
x gyro bias (deg/hr)



z gyro bias (deg/hr)



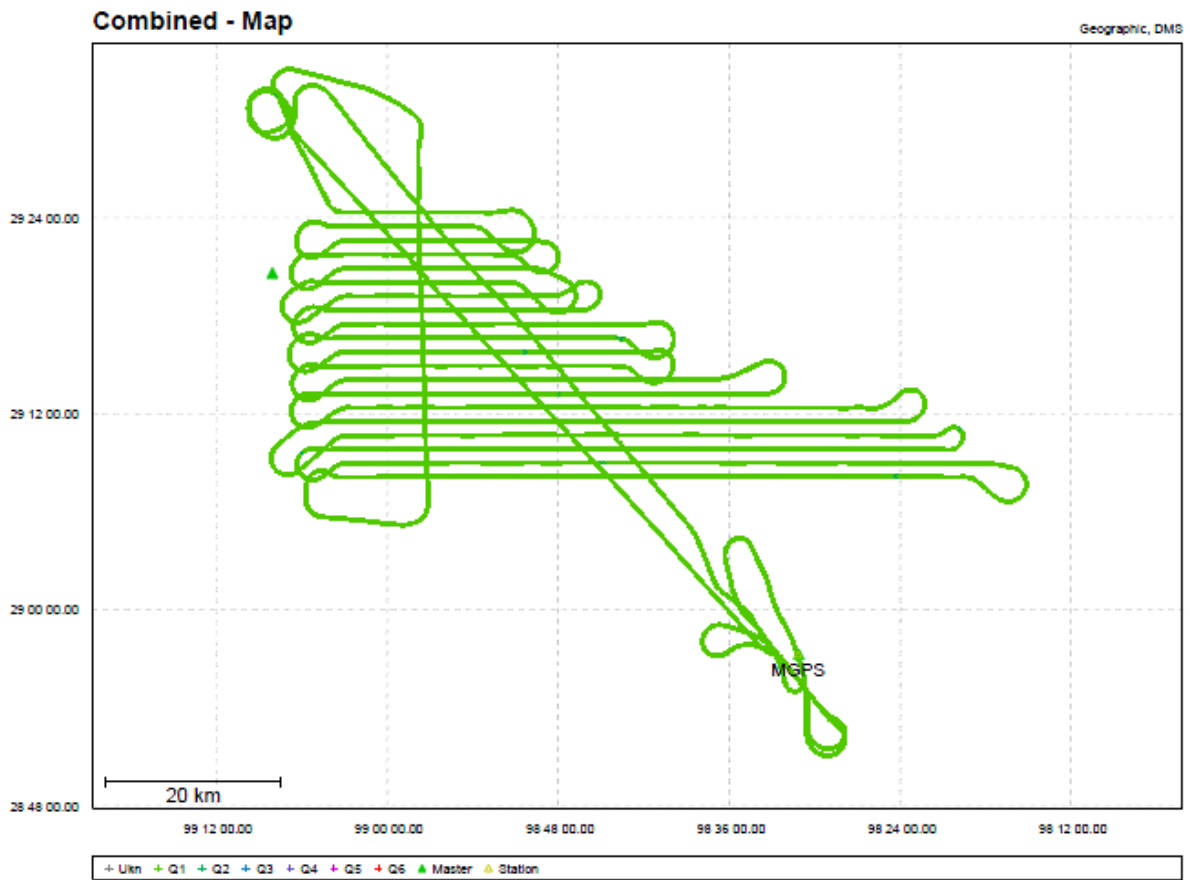
y gyro bias (deg/hr)

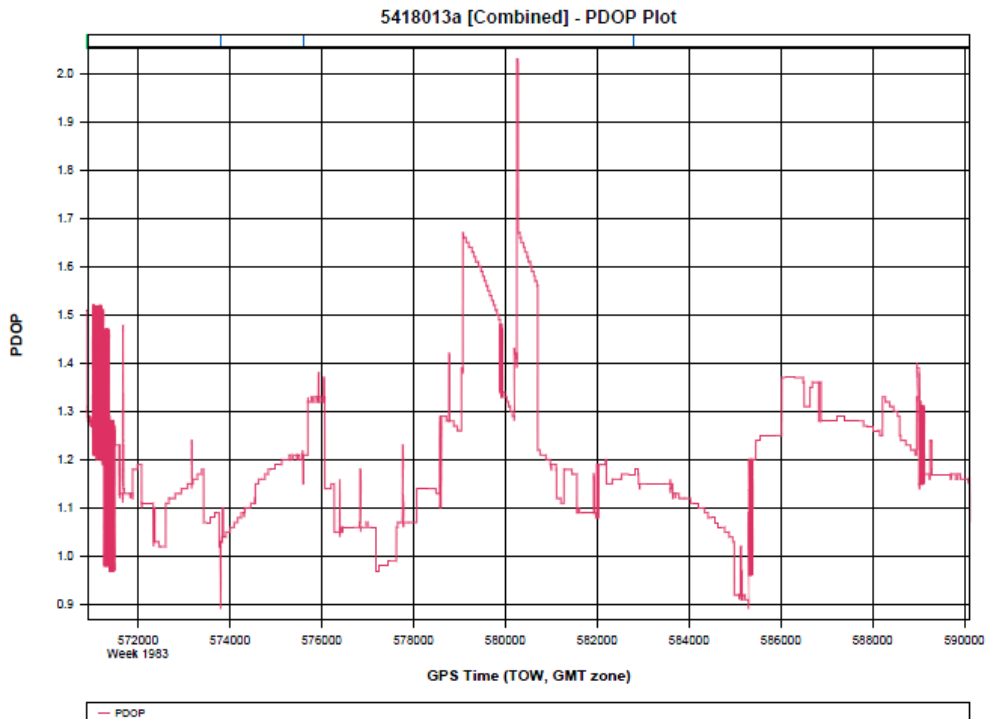
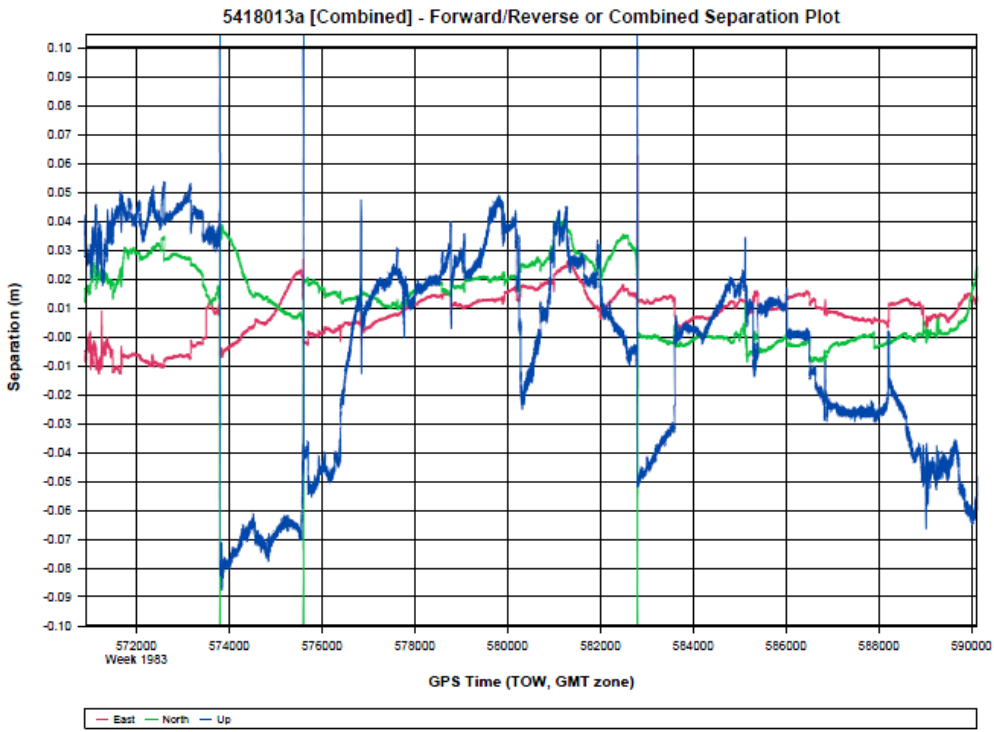


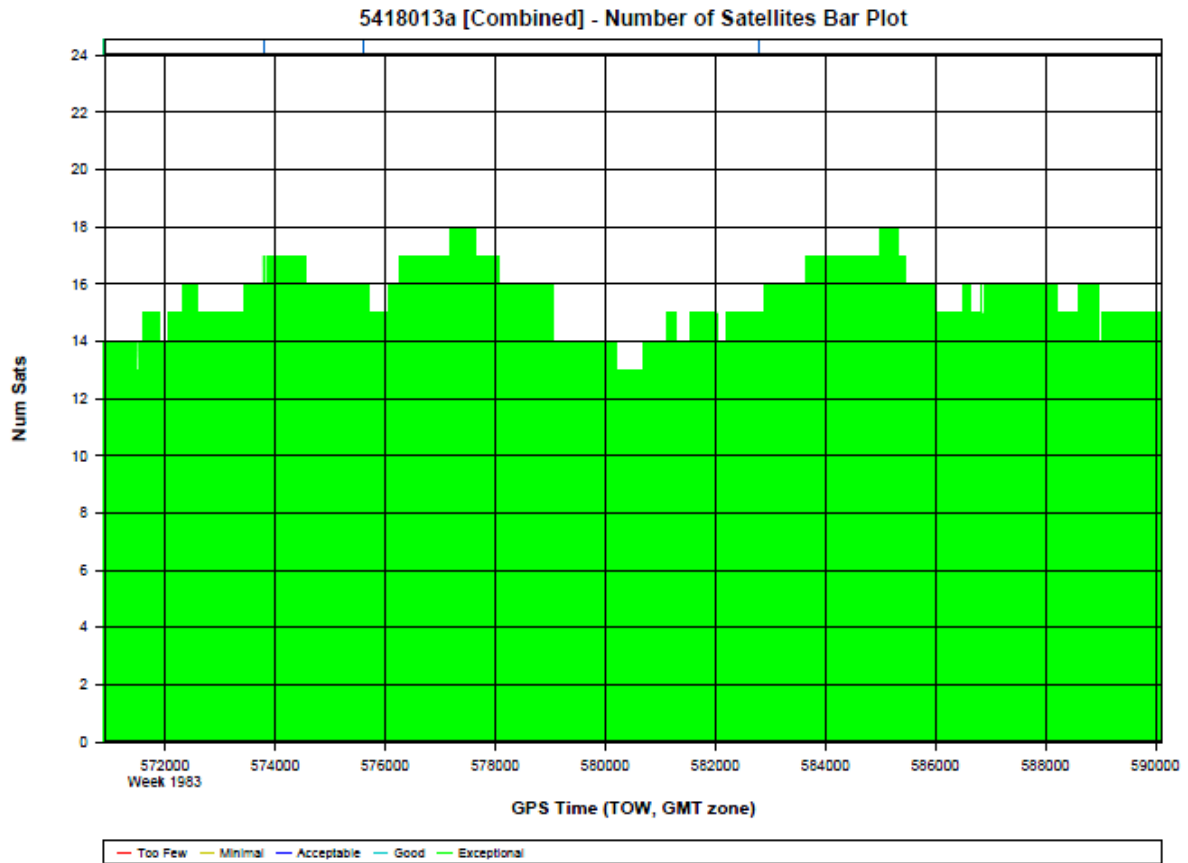
Mission 6 - 5418013a GNSS Processing

Project: 5418013a

GrafNav v8.50.4320







Processing Summary Information

Program: GrafNav
 Version: 8.50.4320
 Project: D:\Projects\3122_Atascosa-2018\Lidar\5418013a\05_INS-GPS_PROC\01_POS\5418013a\5418013a\GNSS\5418013a.gnv

Solution Type: Combined

Number of Epochs:

Total in GPB file: 19228
 No processed position: 0
 Missing Fwd or Rev: 8
 With bad C/A code: 0

With bad L1 Phase: 0

Measurement RMS Values:

L1 Phase: 0.0192 (m)

C/A Code: 0.75 (m)

L1 Doppler: 0.569 (m/s)

Fwd/Rev Separation RMS Values:

East: 0.011 (m)

North: 0.018 (m)

Height: 0.042 (m)

Fwd/Rev Sep. RMS for dual FWD/REV fixes (19217 occurrences):

East: 0.011 (m)

North: 0.018 (m)

Height: 0.036 (m)

Quality Number Percentages:

Q 1: 99.7 %

Q 2: 0.3 %

Q 3: 0.0 %

Q 4: 0.0 %

Q 5: 0.0 %

Q 6: 0.0 %

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 %

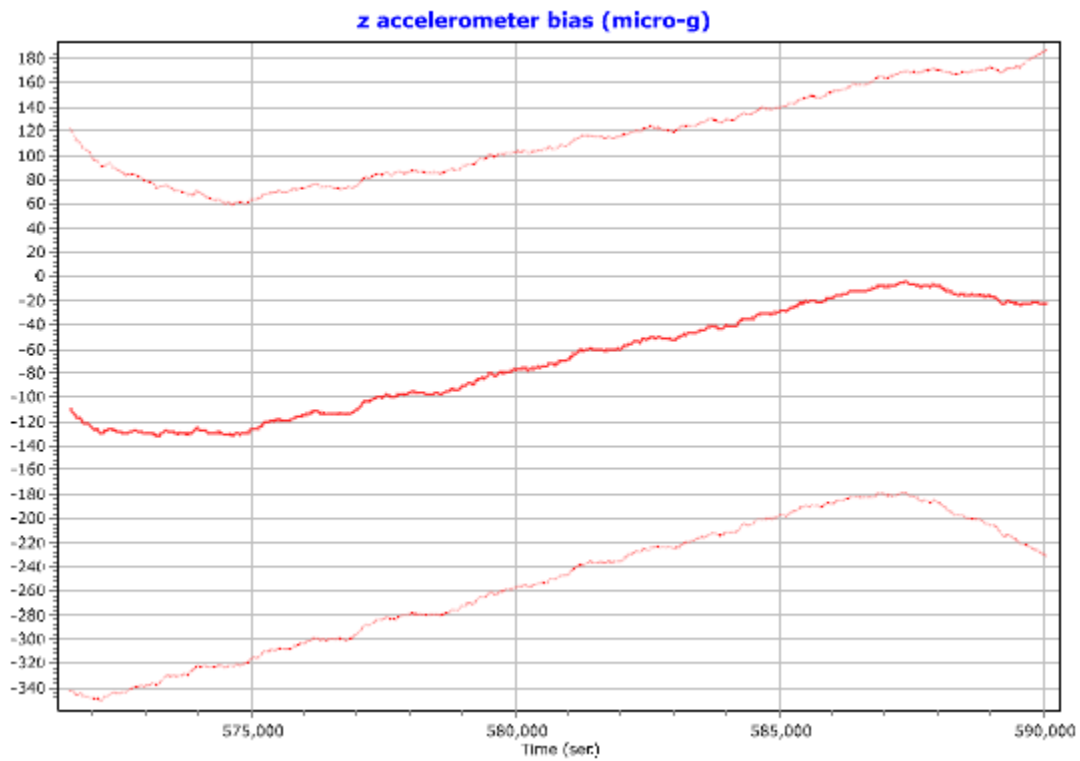
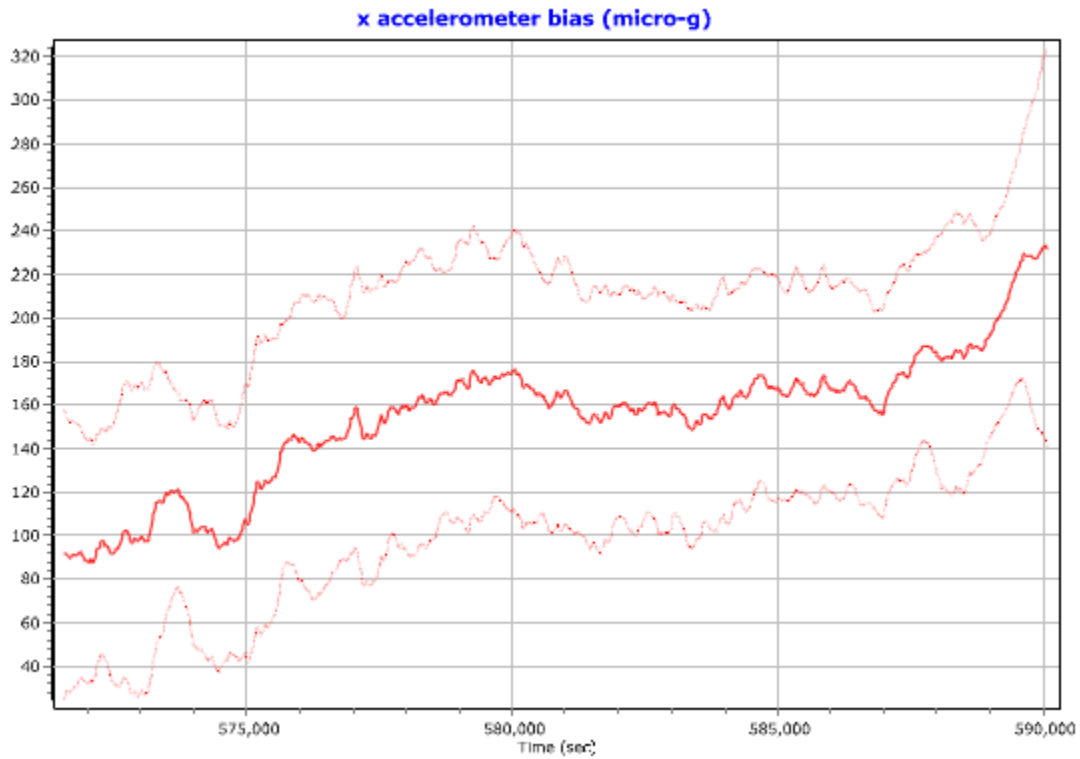
Percentages of epochs with DD_DOP over 10.00:

DOP over Tol:	0.0 %
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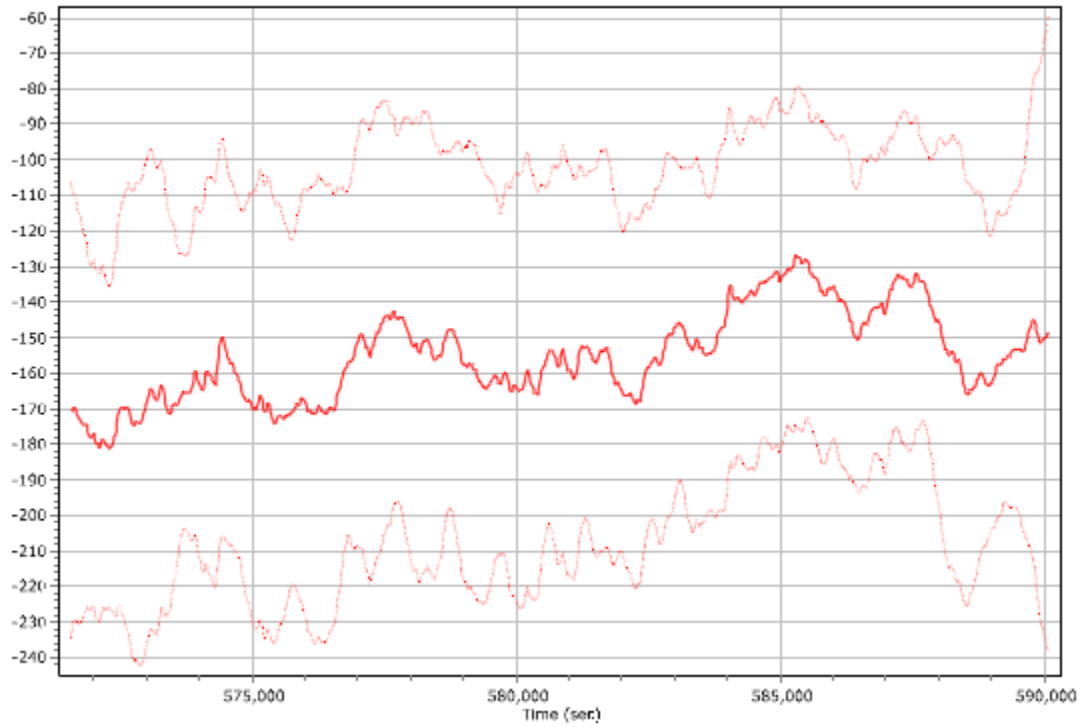
Baseline Distances:

Maximum:	59.955 (km)
Minimum:	2.148 (km)
Average:	25.613 (km)
First Epoch:	36.829 (km)
Last Epoch:	36.776 (km)

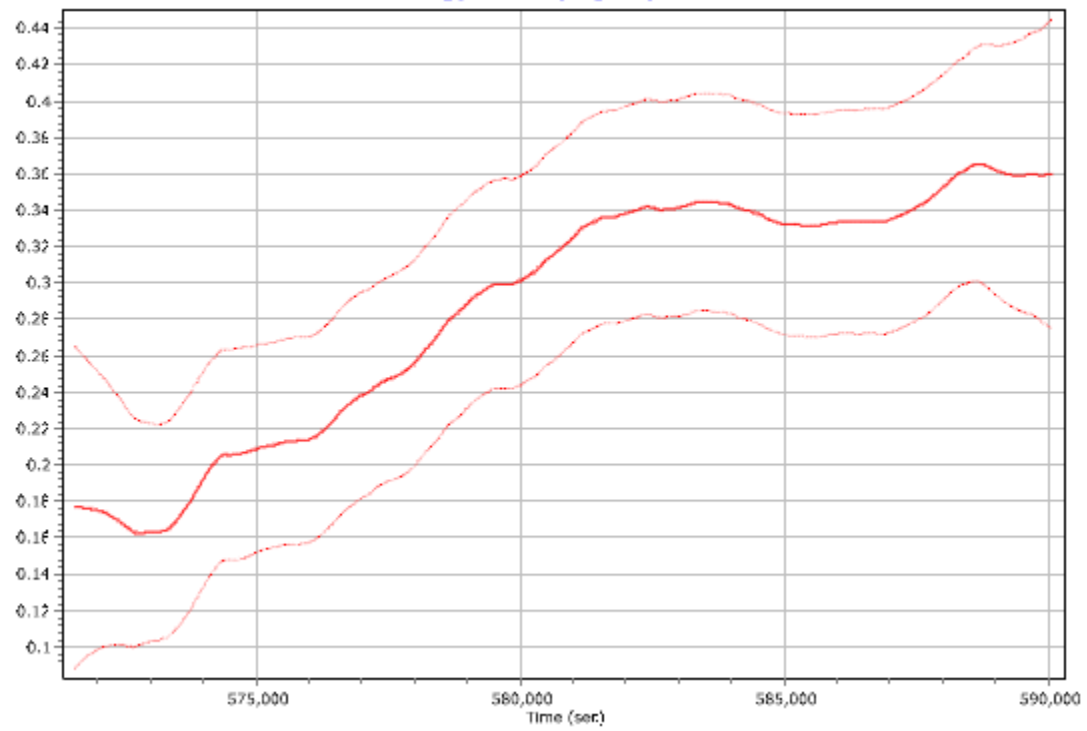
Mission 6 - 5418013a Sensor Errors



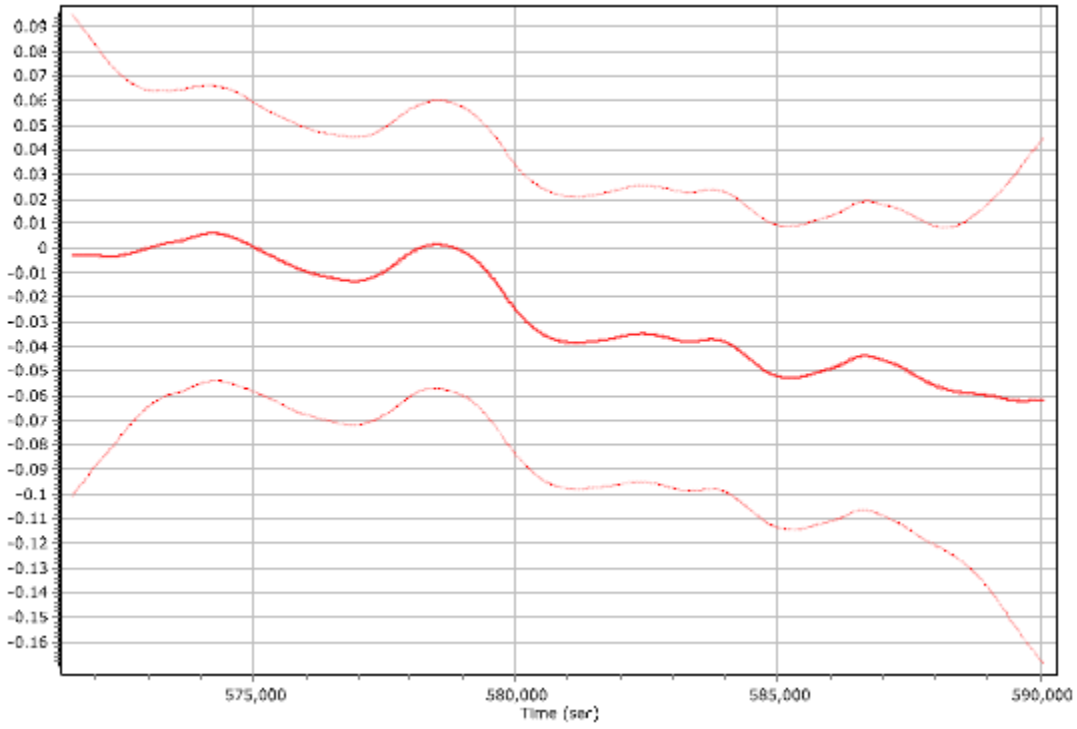
y accelerometer bias (micro-g)



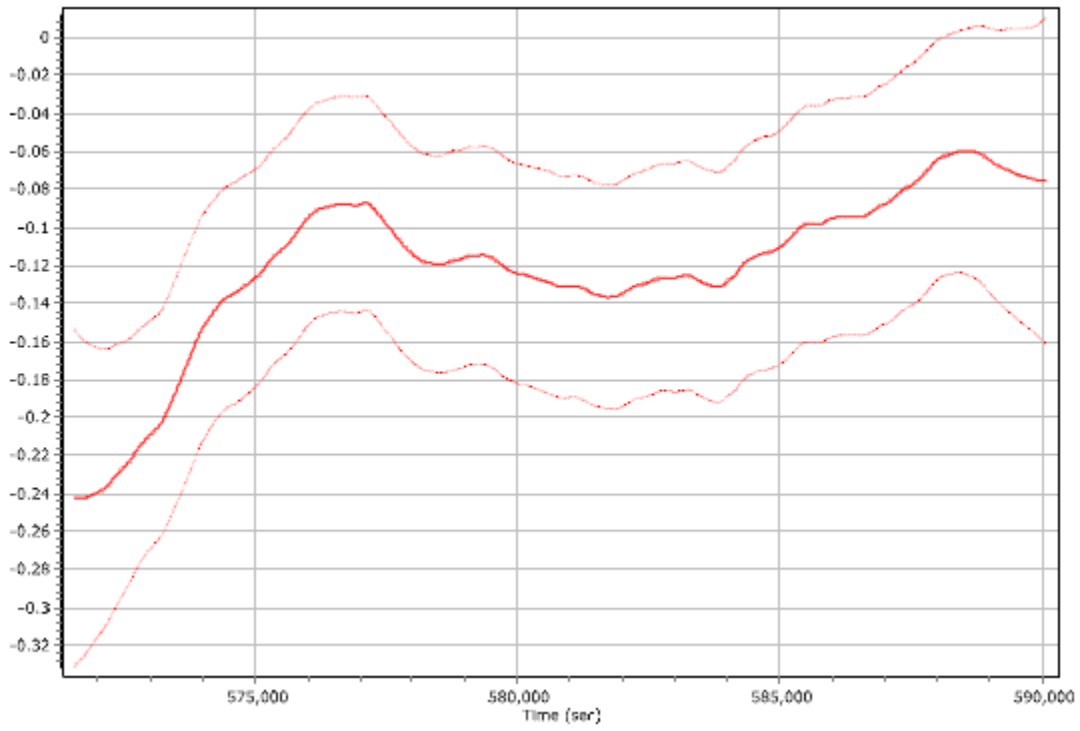
x gyro bias (deg/hr)



z gyro bias (deg/hr)



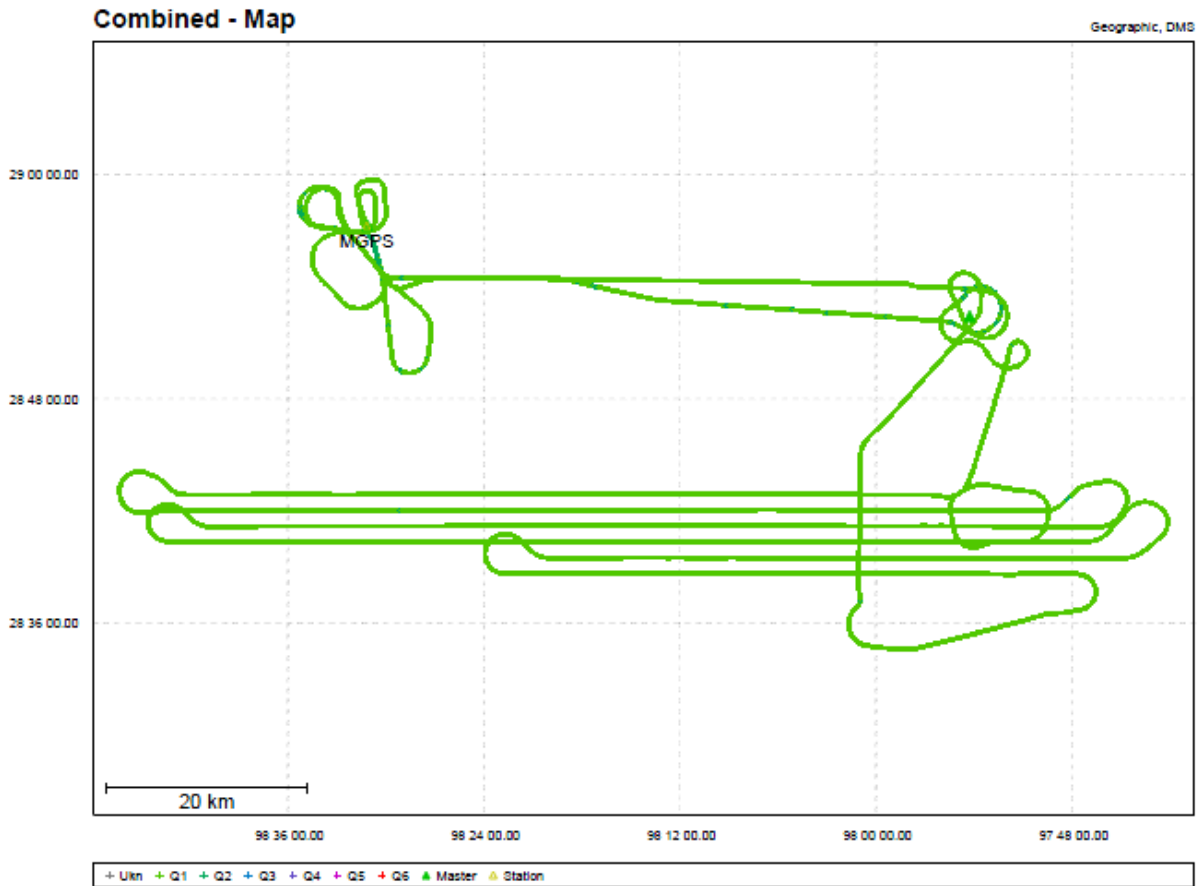
y gyro bias (deg/hr)

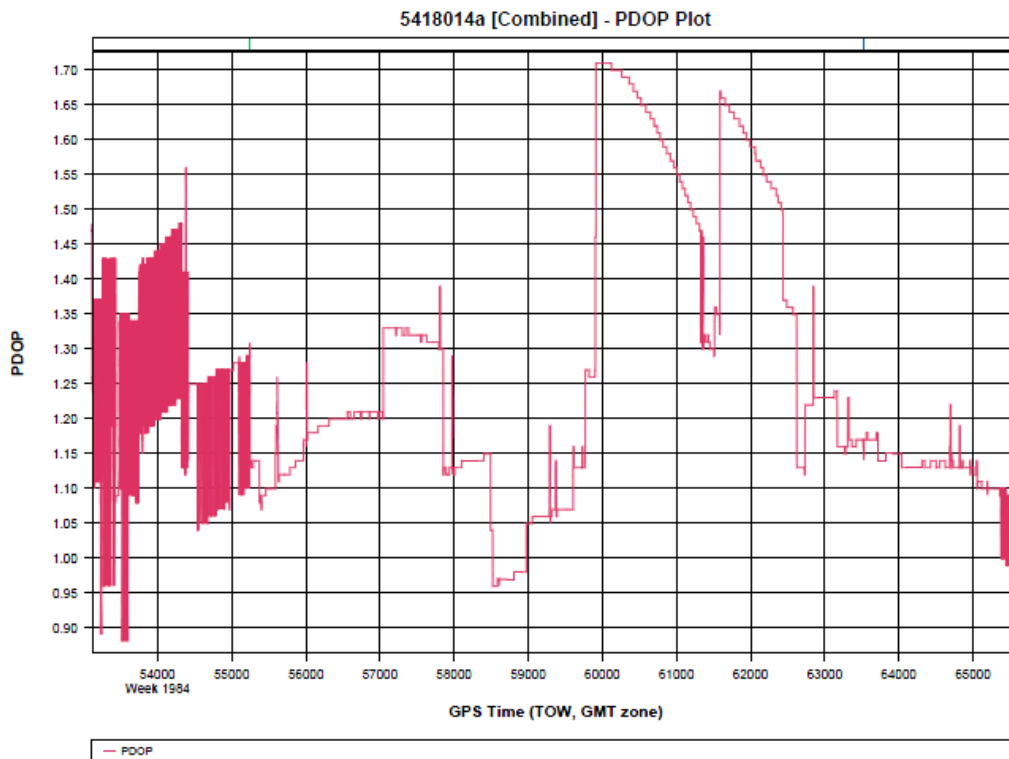
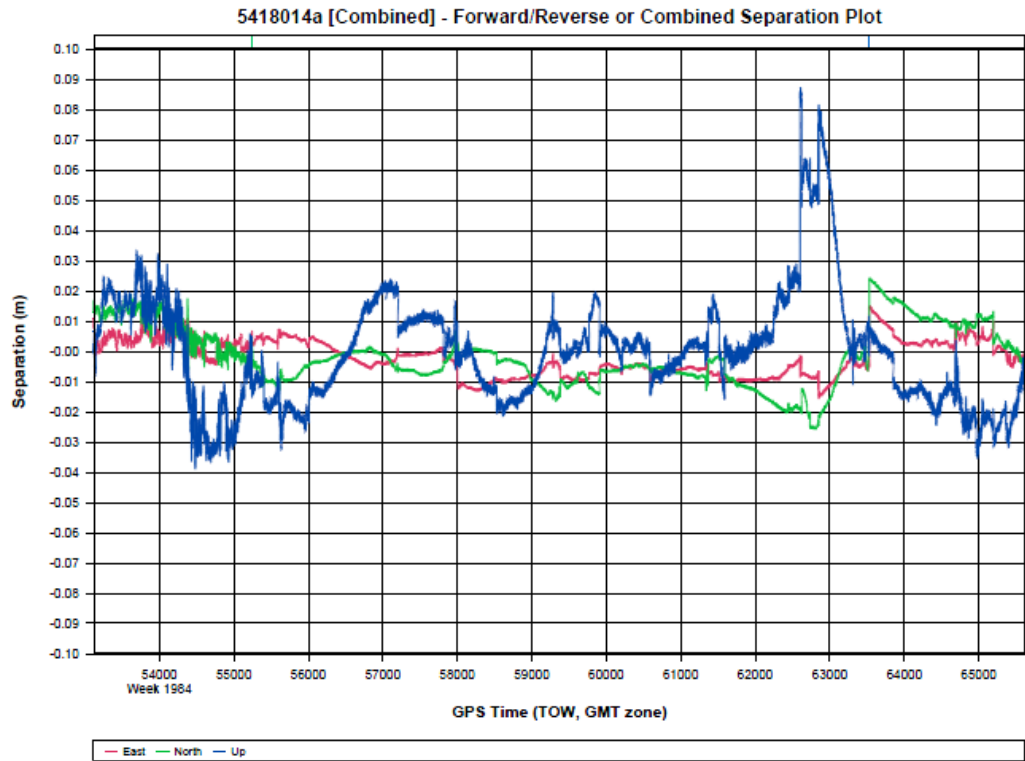


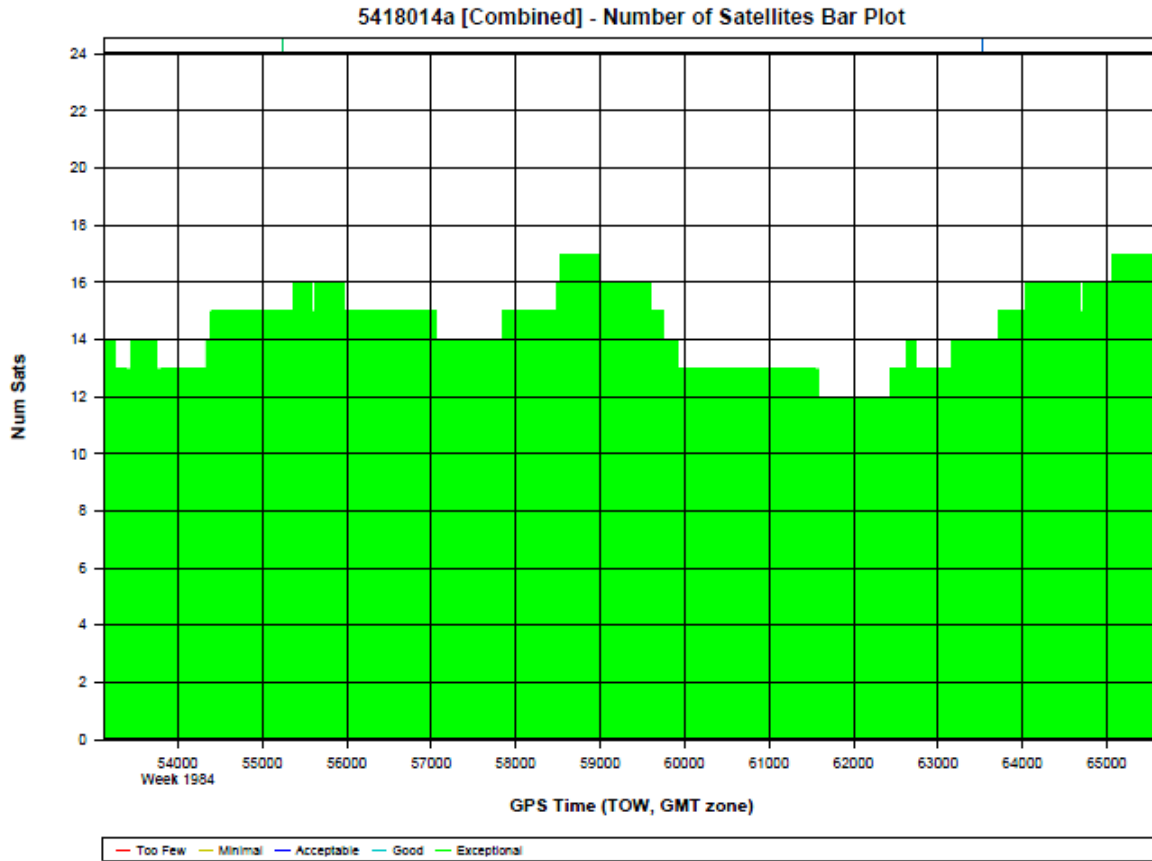
Mission 7 - 5418014a GNSS Processing

Project: 5418014a

GrafNav v8.50.4320







Processing Summary Information

Program: GrafNav
 Version: 8.50.4320
 Project: D:\Projects\3122_Atascosa-2018\Lidar\5418014a\05_INS-GPS_PROC\01_POS\5418014a\5418014a\GNSS\5418014a.gnv

Solution Type: Combined

Number of Epochs:

Total in GPB file:	12513
No processed position:	0
Missing Fwd or Rev:	6
With bad C/A code:	0
With bad L1 Phase:	0

Measurement RMS Values:

L1 Phase: 0.0177 (m)
C/A Code: 0.83 (m)
L1 Doppler: 0.561 (m/s)

Fwd/Rev Separation RMS Values:

East: 0.006 (m)
North: 0.010 (m)
Height: 0.019 (m)

Fwd/Rev Sep. RMS for dual FWD/REV fixes (12507 occurrences):

East: 0.006 (m)
North: 0.010 (m)
Height: 0.019 (m)

Quality Number Percentages:

Q 1: 97.5 %
Q 2: 2.5 %
Q 3: 0.0 %
Q 4: 0.0 %
Q 5: 0.0 %
Q 6: 0.0 %

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 %

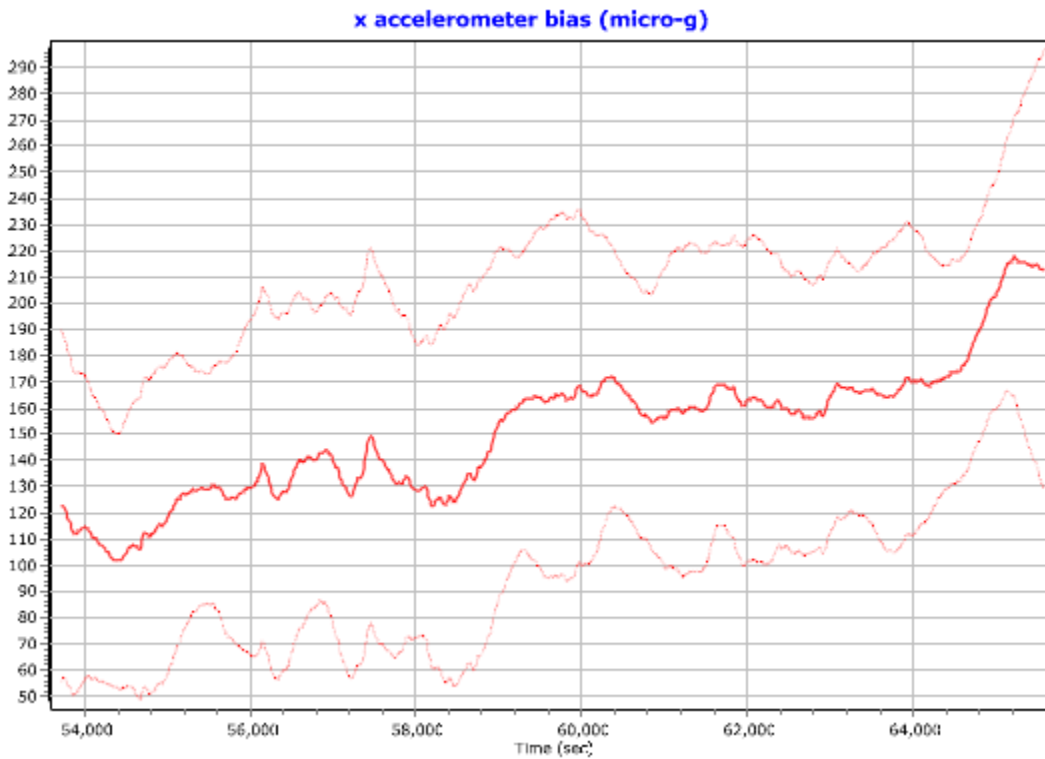
Percentages of epochs with DD_DOP over 10.00:

DOP over Tol: 0.0 %

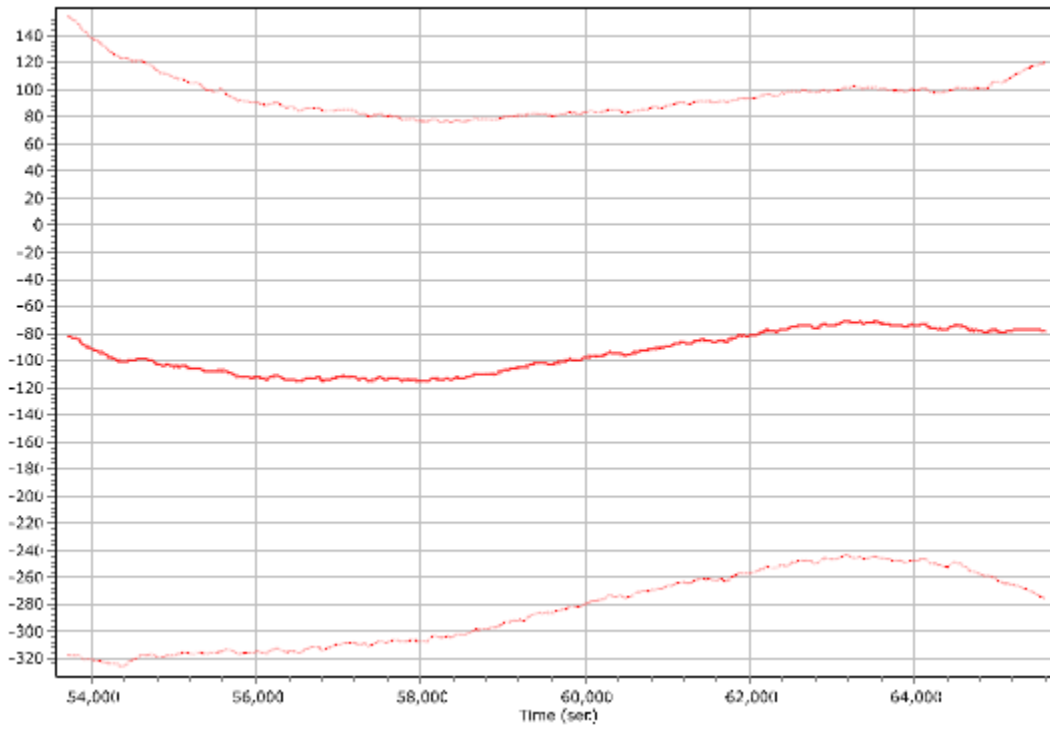
Baseline Distances:

Maximum: 74.884 (km)
Minimum: 0.328 (km)
Average: 32.825 (km)
First Epoch: 30.641 (km)
Last Epoch: 30.239 (km)

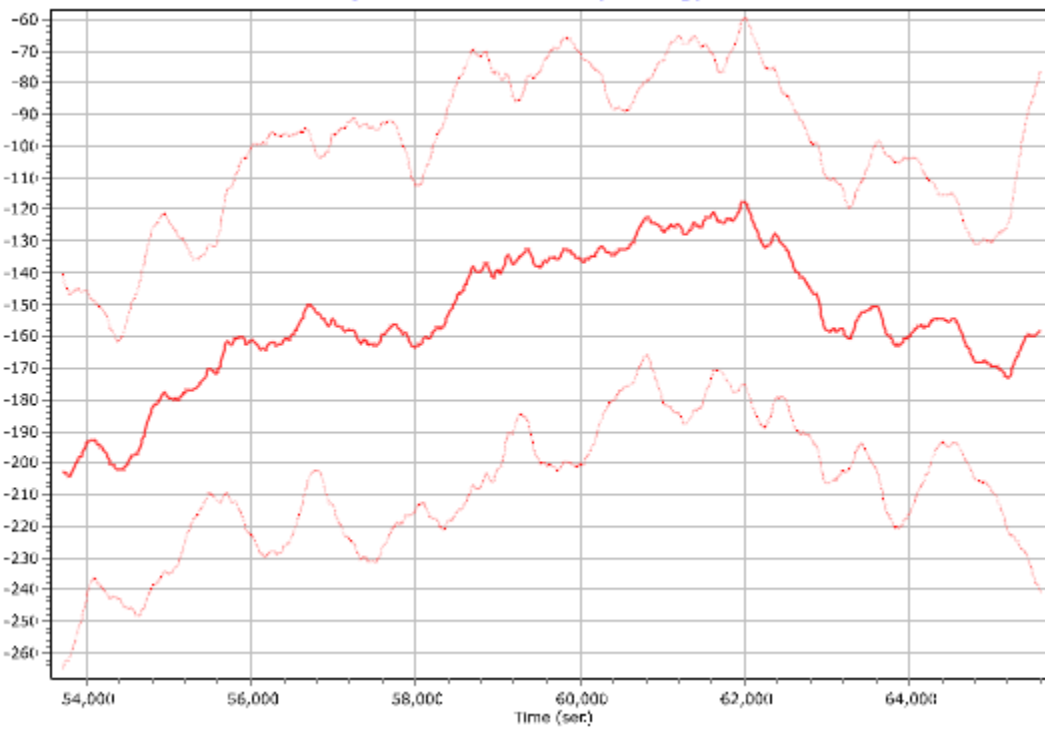
Mission 7 - 5418014a Sensor Errors



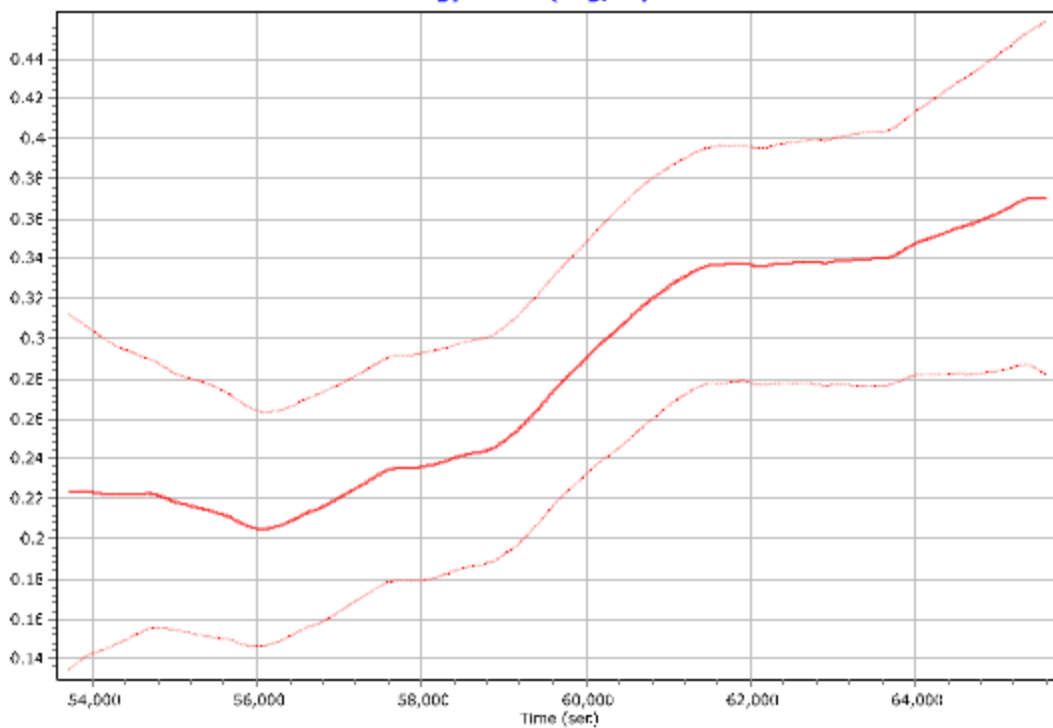
z accelerometer bias (micro-g)



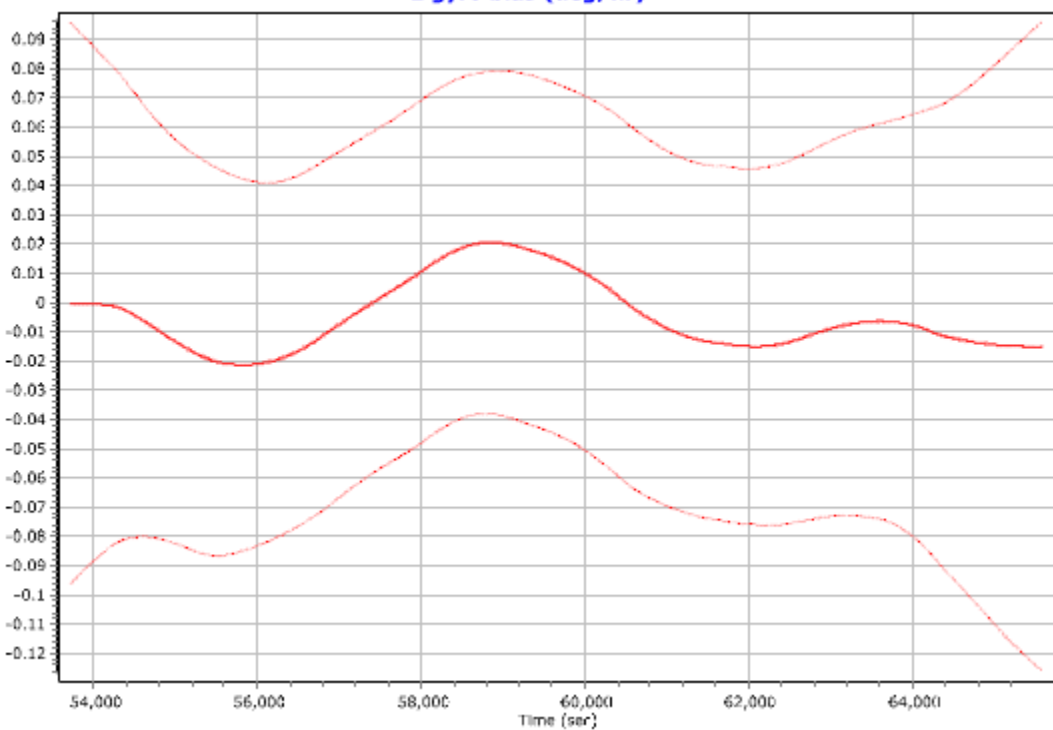
y accelerometer bias (micro-g)



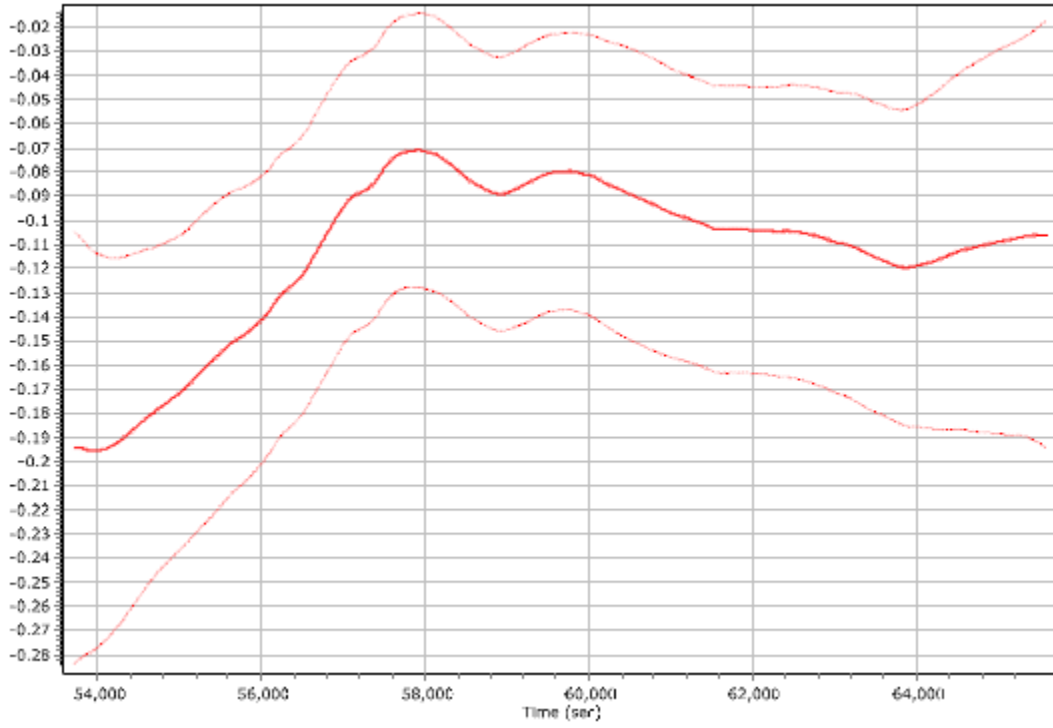
x gyro bias (deg/hr)



z gyro bias (deg/hr)



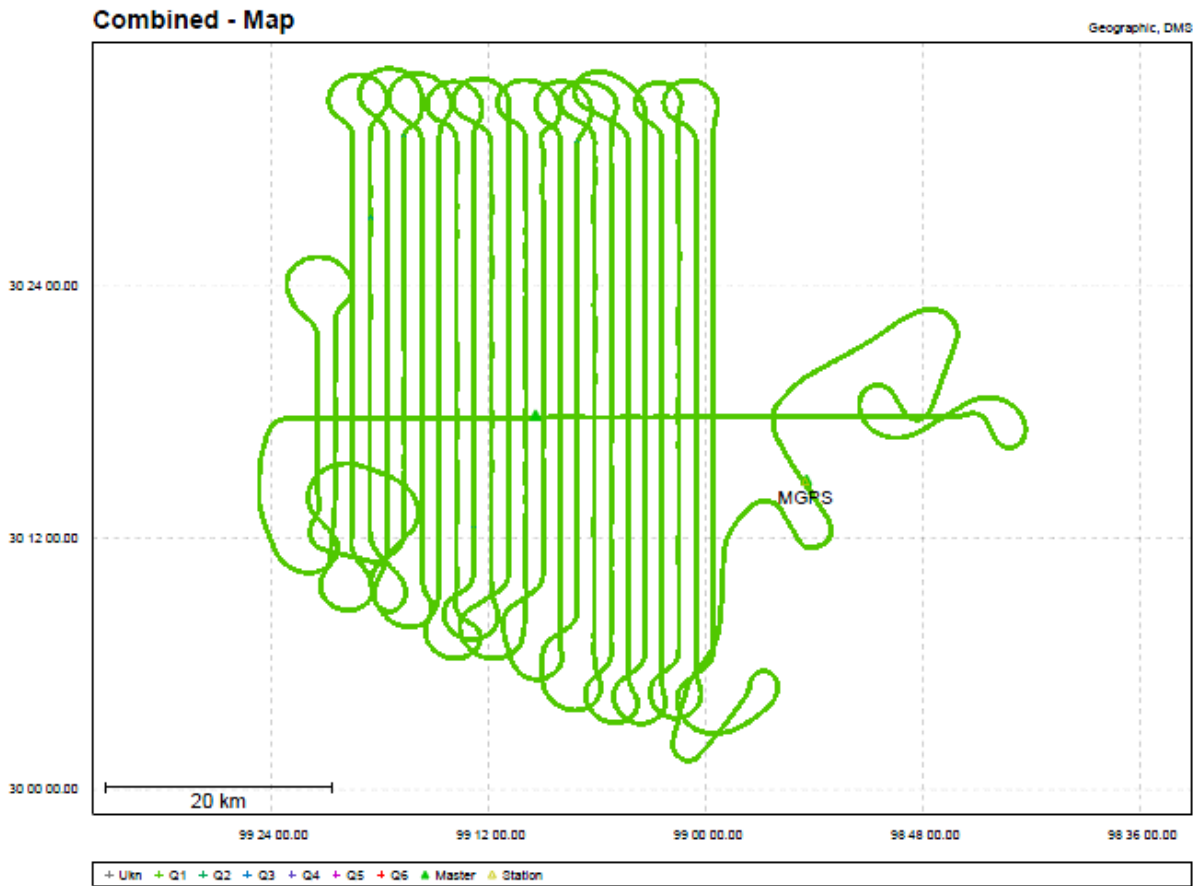
y gyro bias (deg/hr)

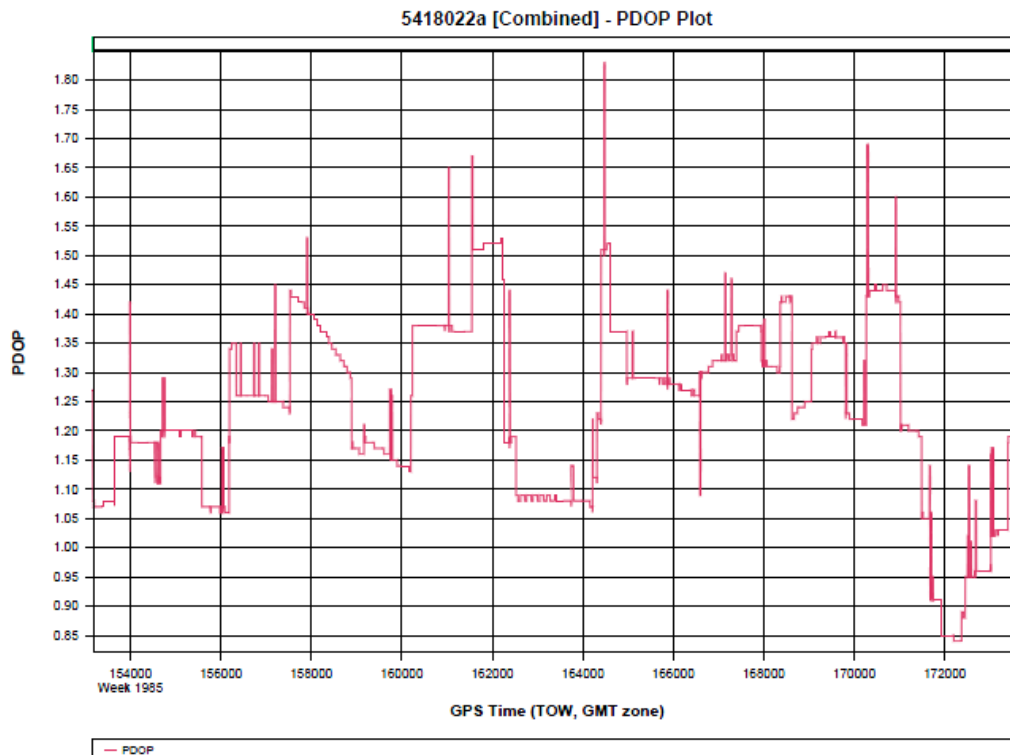
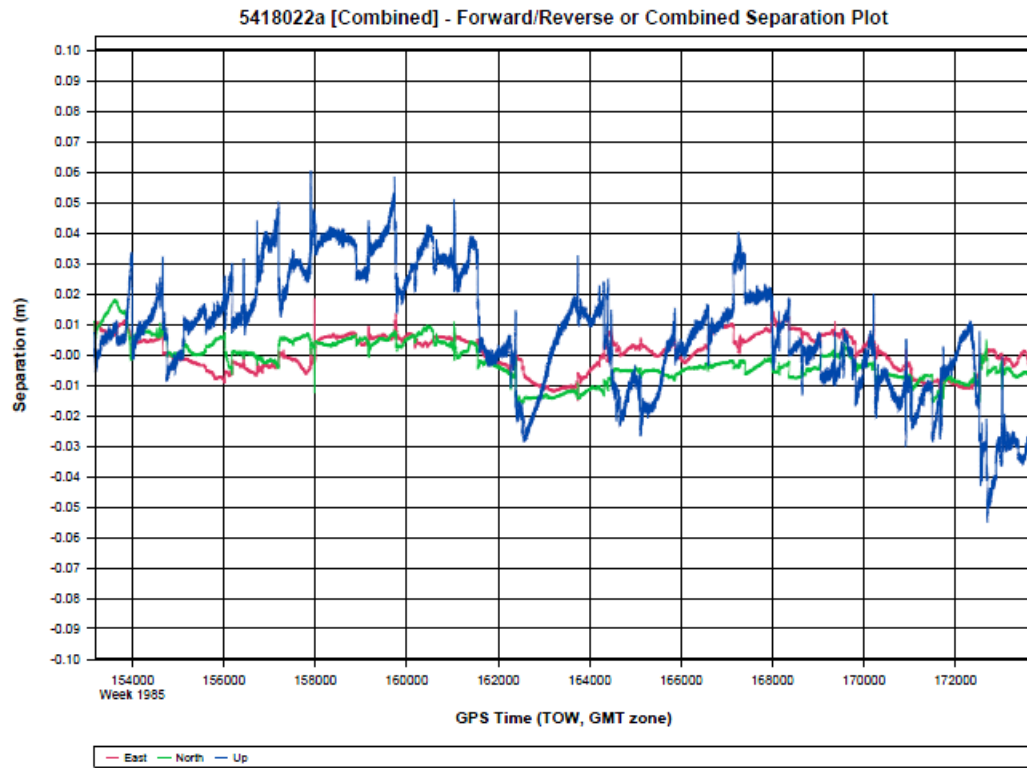


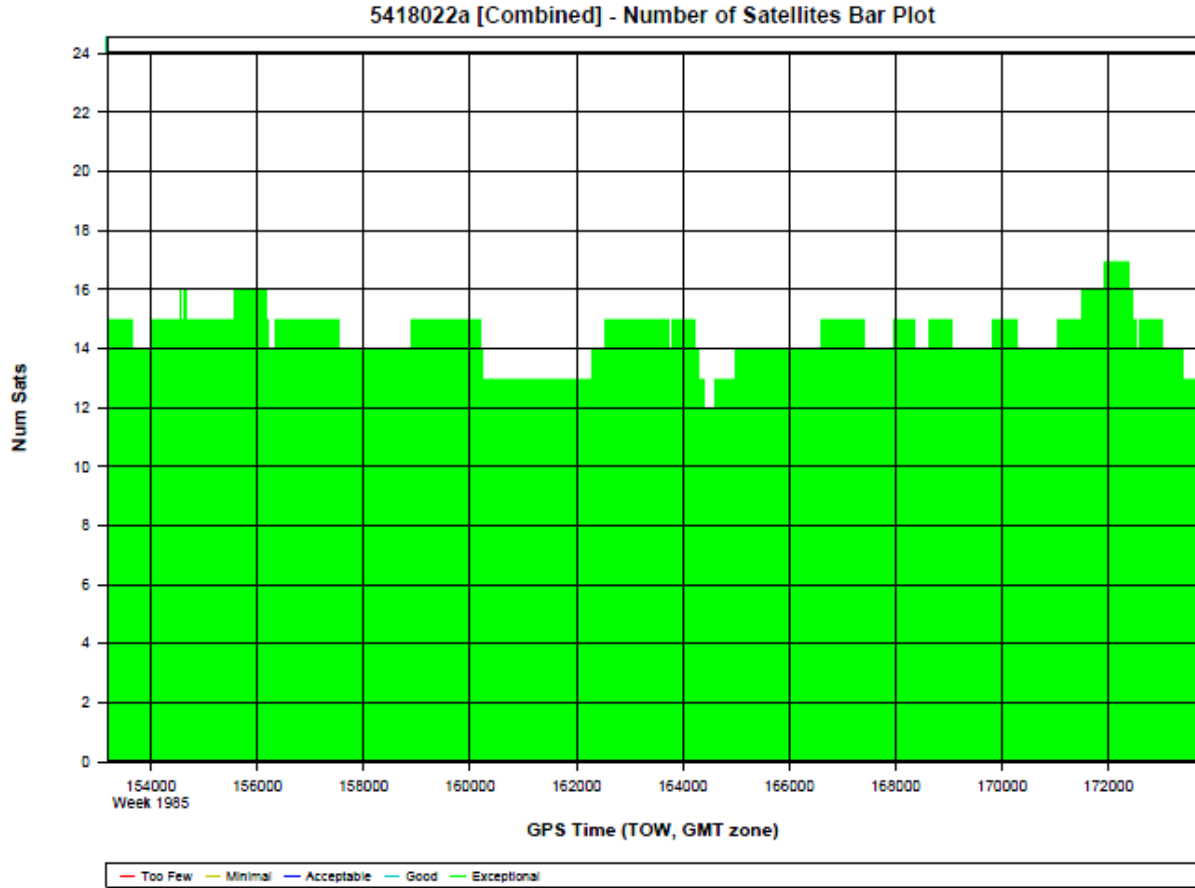
Mission 8 - 5418022a GNSS Processing

Project: 5418022a

GrafNav v8.50.4320







Processing Summary Information

Program: GrafNav
 Version: 8.50.4320
 Project: D:\Projects\3122_Atascosa-2018\Lidar\5418022a\05_INS-GPS_PROC\01_POS\5418022a\5418022a\GNSS\5418022a.gnv

Solution Type: Combined

Number of Epochs:

Total in GPB file: 20513
 No processed position: 1
 Missing Fwd or Rev: 5

With bad C/A code: 0

With bad L1 Phase: 0

Measurement RMS Values:

L1 Phase: 0.0189 (m)

C/A Code: 0.88 (m)

L1 Doppler: 0.533 (m/s)

Fwd/Rev Separation RMS Values:

East: 0.006 (m)

North: 0.007 (m)

Height: 0.021 (m)

Fwd/Rev Sep. RMS for dual FWD/REV fixes (20507 occurrences):

East: 0.006 (m)

North: 0.007 (m)

Height: 0.021 (m)

Quality Number Percentages:

Q 1: 99.9 %

Q 2: 0.1 %

Q 3: 0.0 %

Q 4: 0.0 %

Q 5: 0.0 %

Q 6: 0.0 %

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 %

Percentages of epochs with DD_DOP over 10.00:

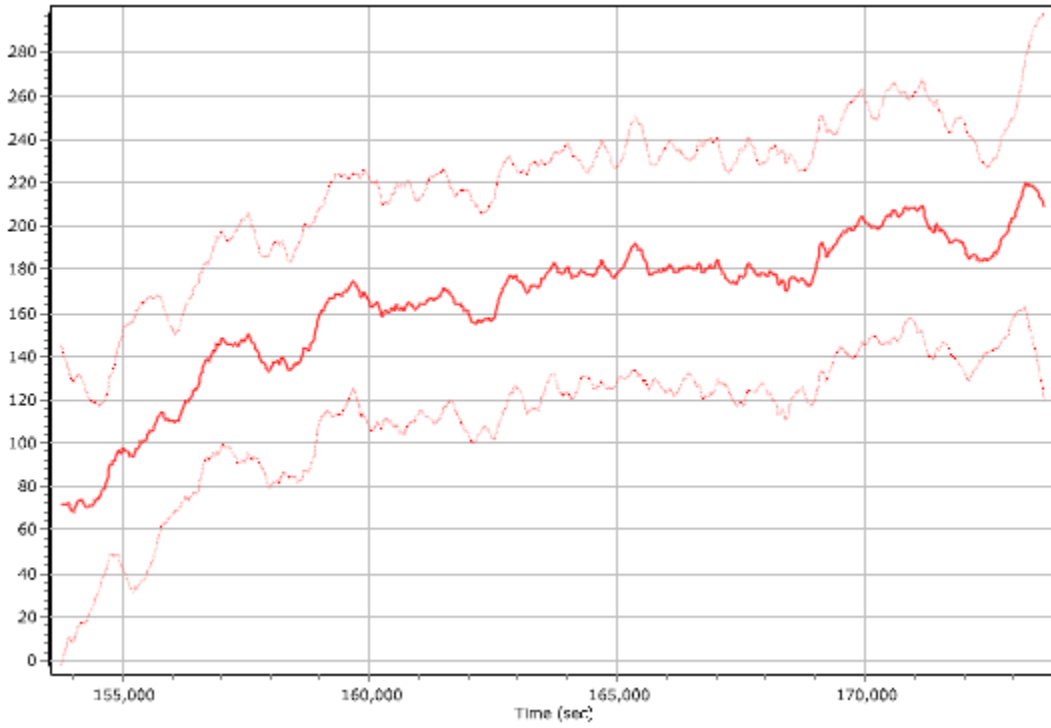
DOP over Tol:	0.0 %
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Baseline Distances:

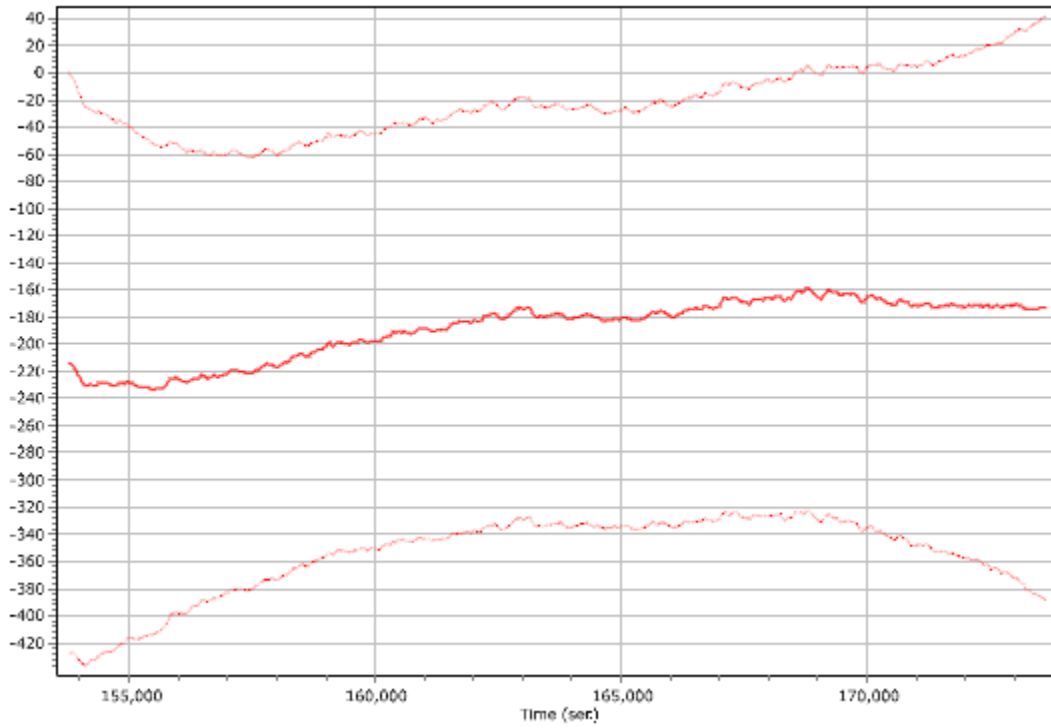
Maximum:	43.682 (km)
Minimum:	2.043 (km)
Average:	21.184 (km)
First Epoch:	12.381 (km)
Last Epoch:	12.260 (km)

Mission 8 - 5418022a Sensor Errors

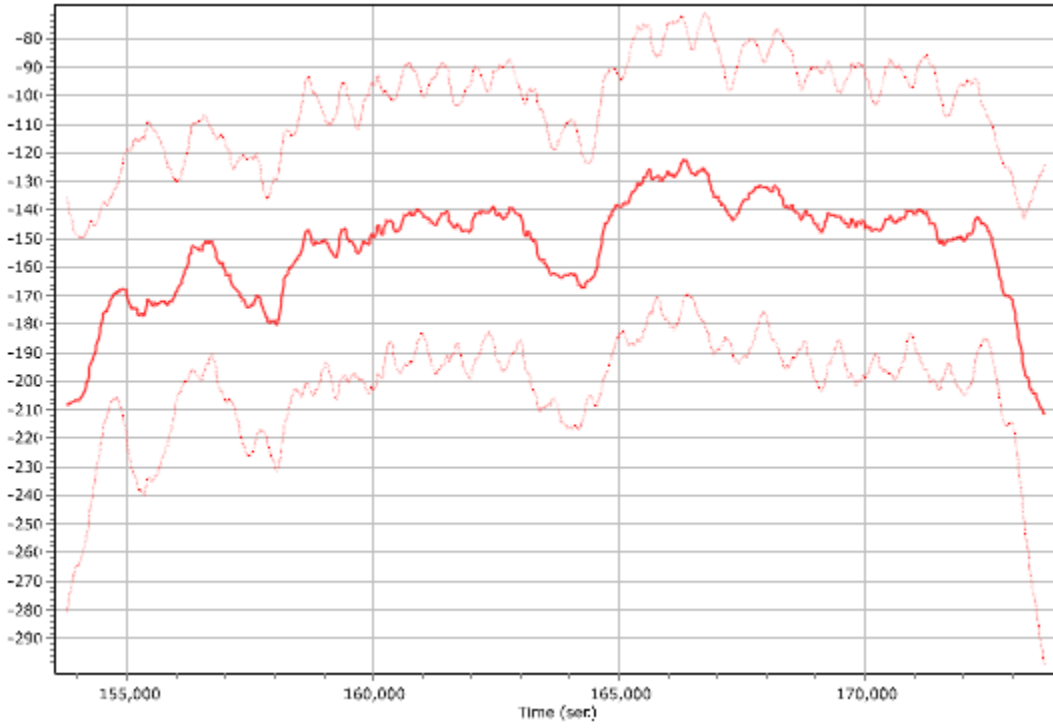
x accelerometer bias (micro-g)



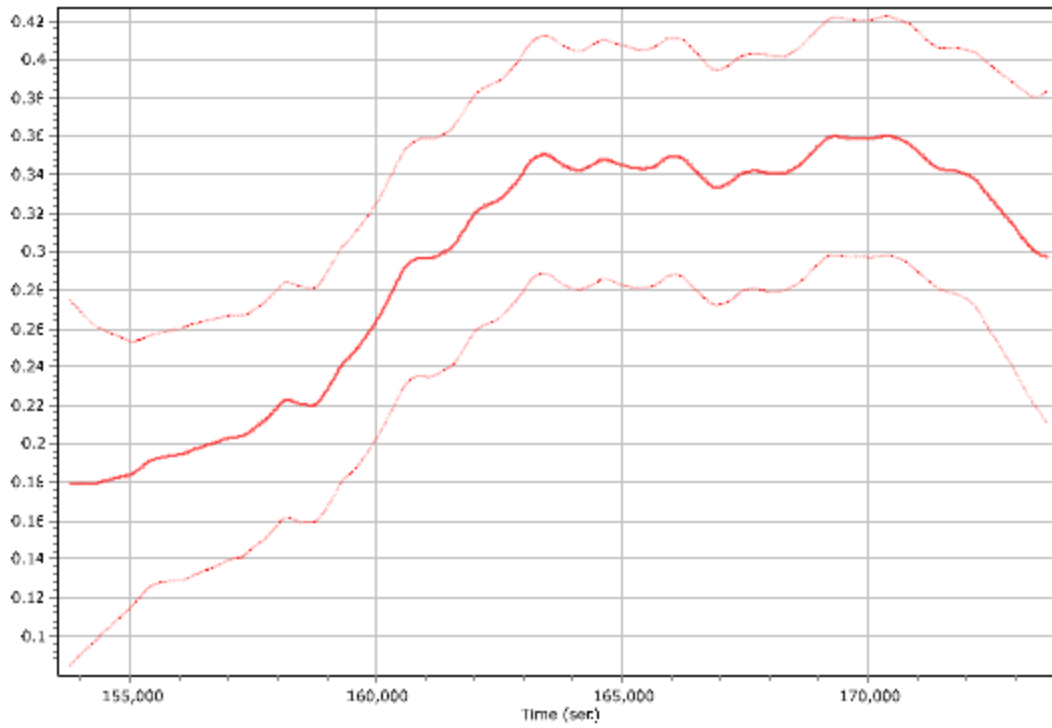
z accelerometer bias (micro-g)



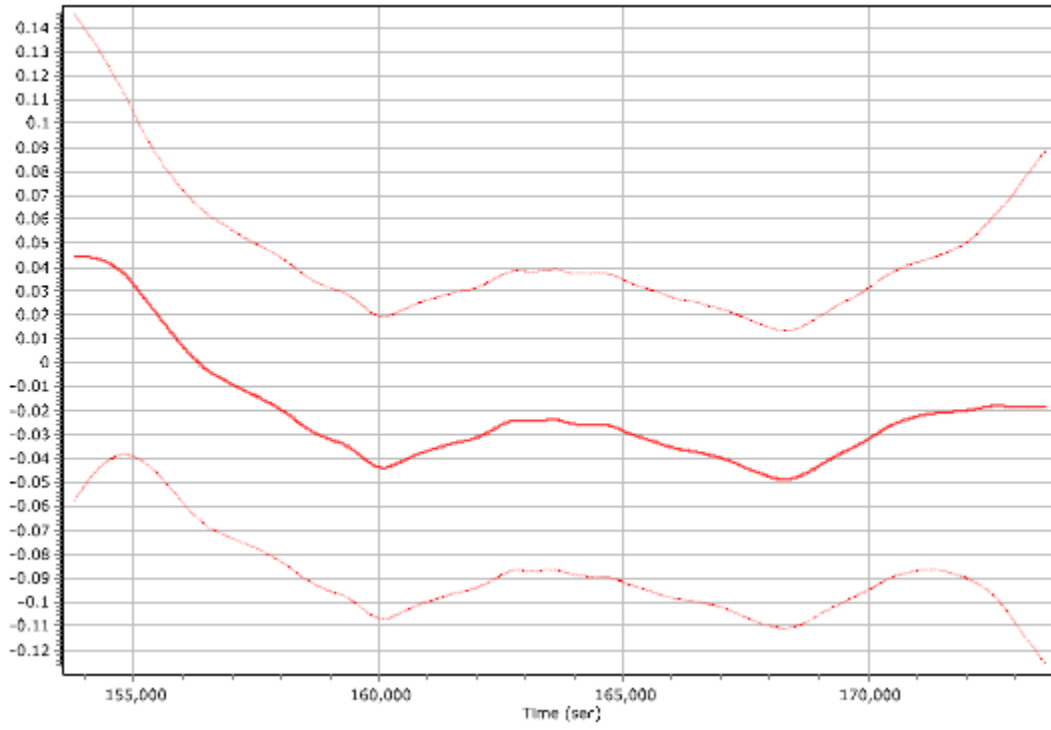
y accelerometer bias (micro-g)



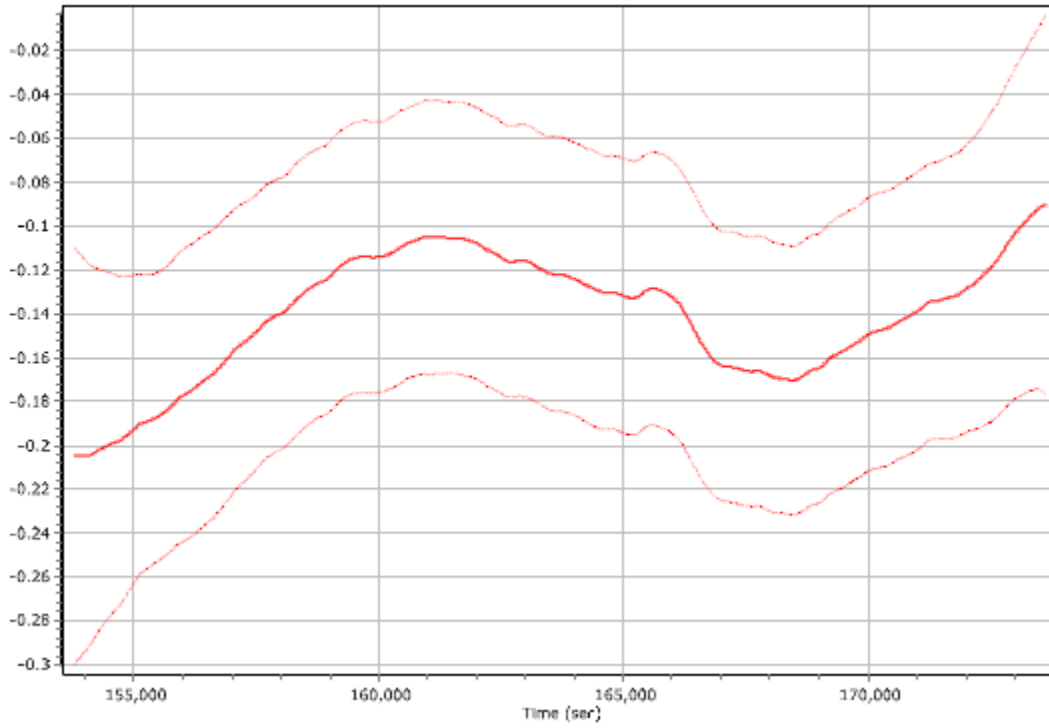
x gyro bias (deg/hr)



z gyro bias (deg/hr)



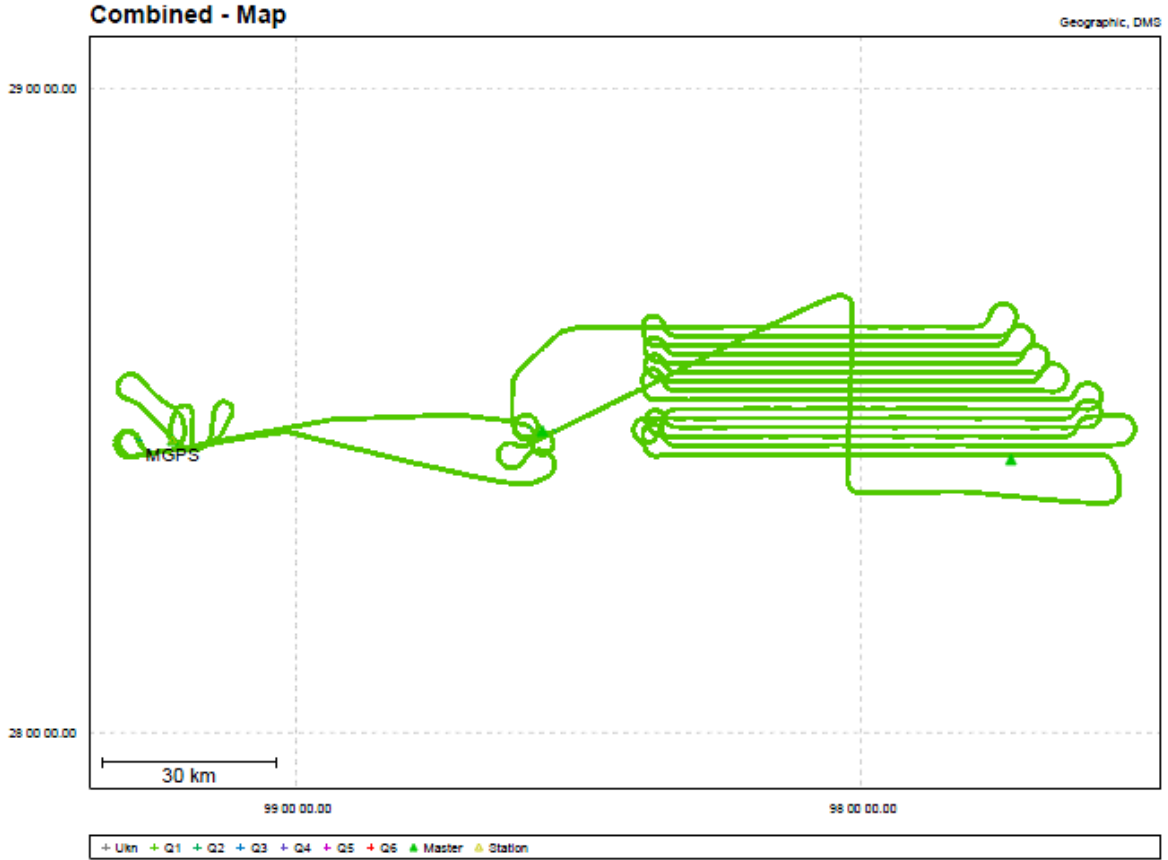
y gyro bias (deg/hr)

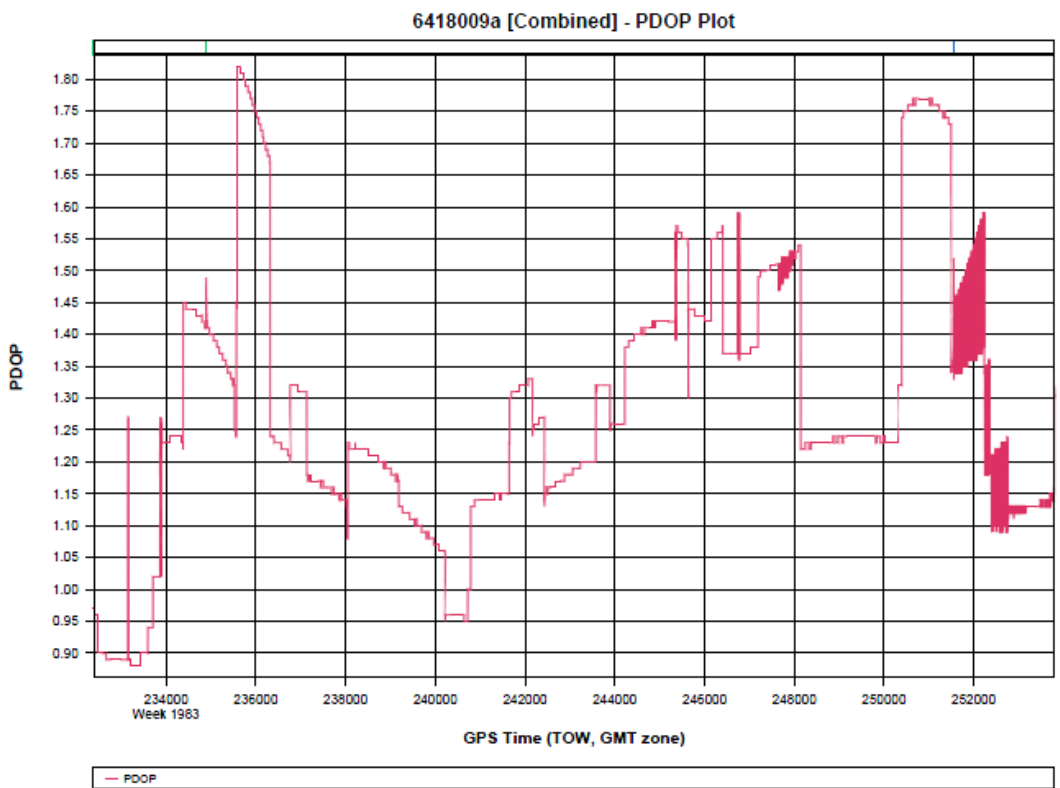
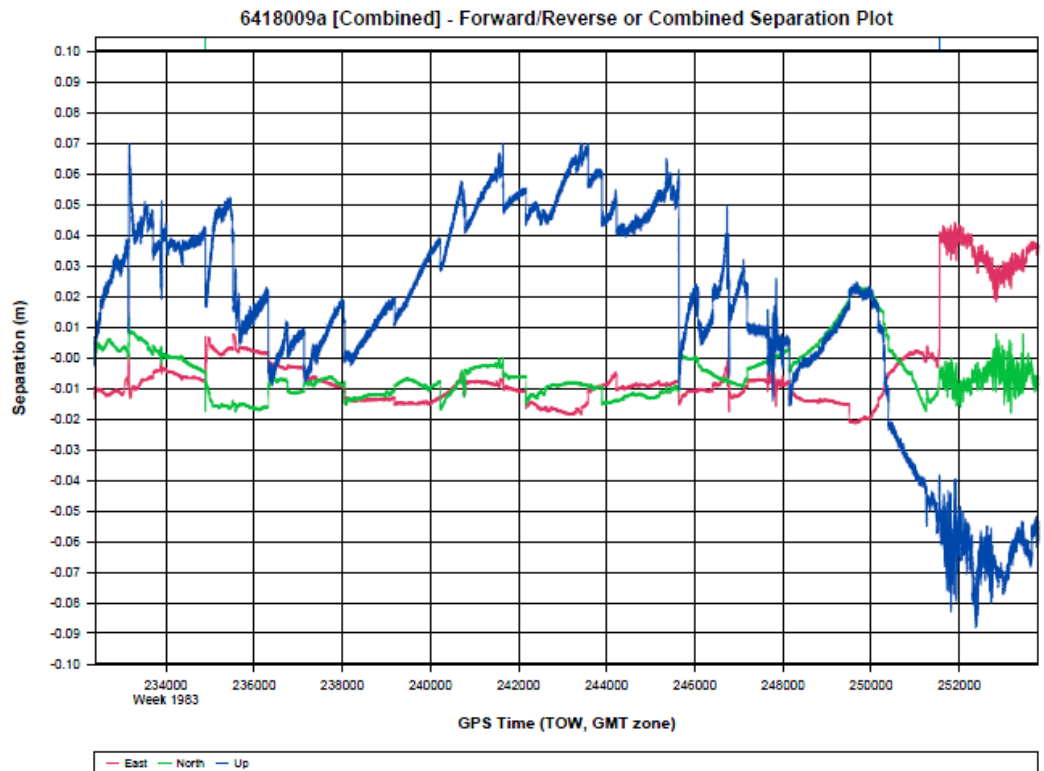


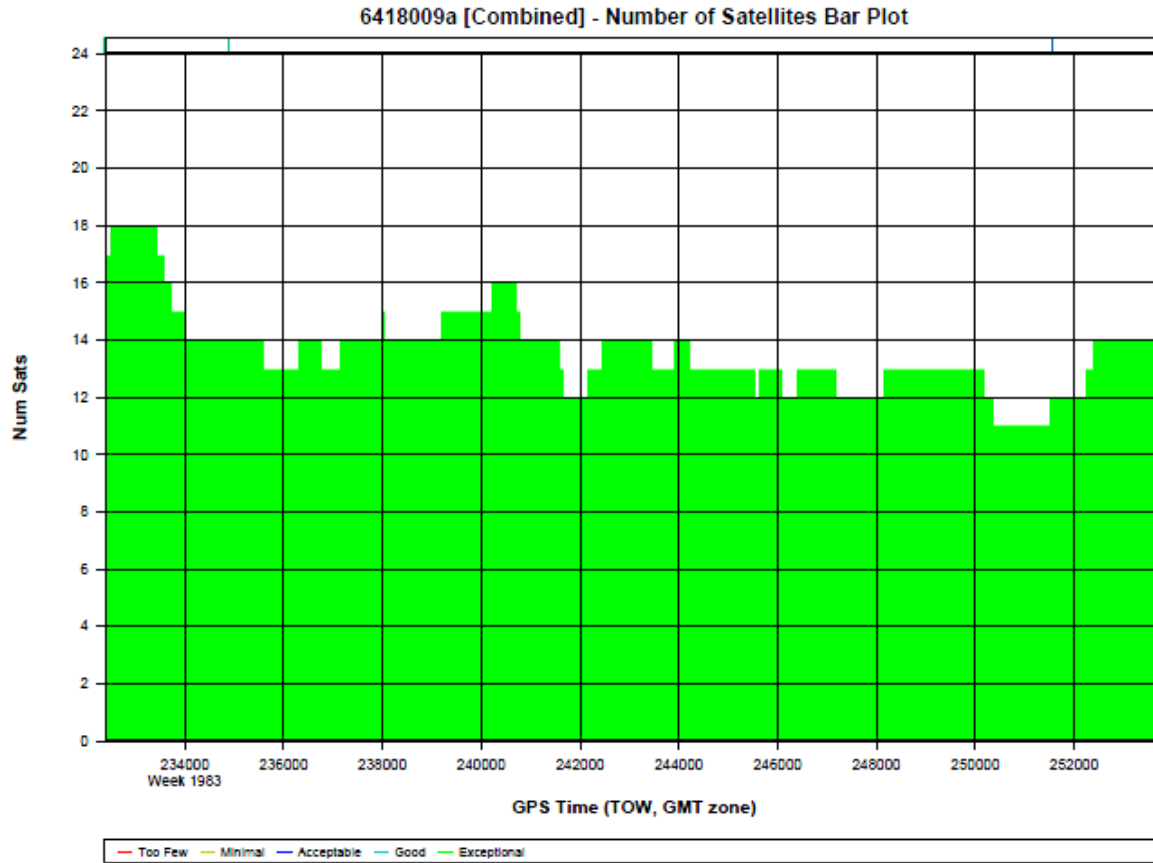
Mission 9 – 6418009a GNSS Processing

Project: 6418009a

GrafNav v8.50.4320







Processing Summary Information

Program: GrafNav
 Version: 8.50.4320
 Project: D:\Projects\3122_Atascosa-2018\Lidar\6418009a\05_INS-GPS_PROC\01_POS\6418009a\6418009a\GNSS\6418009a.gnv

Solution Type: Combined

Number of Epochs:

Total in GPB file: 21417
 No processed position: 1
 Missing Fwd or Rev: 6
 With bad C/A code: 0
 With bad L1 Phase: 0

Measurement RMS Values:

L1 Phase: 0.0181 (m)
C/A Code: 0.83 (m)
L1 Doppler: 0.510 (m/s)

Fwd/Rev Separation RMS Values:

East: 0.015 (m)
North: 0.010 (m)
Height: 0.039 (m)

Fwd/Rev Sep. RMS for dual FWD/REV fixes (21410 occurrences):

East: 0.015 (m)
North: 0.010 (m)
Height: 0.039 (m)

Quality Number Percentages:

Q 1: 99.9 %
Q 2: 0.1 %
Q 3: 0.0 %
Q 4: 0.0 %
Q 5: 0.0 %
Q 6: 0.0 %

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 %

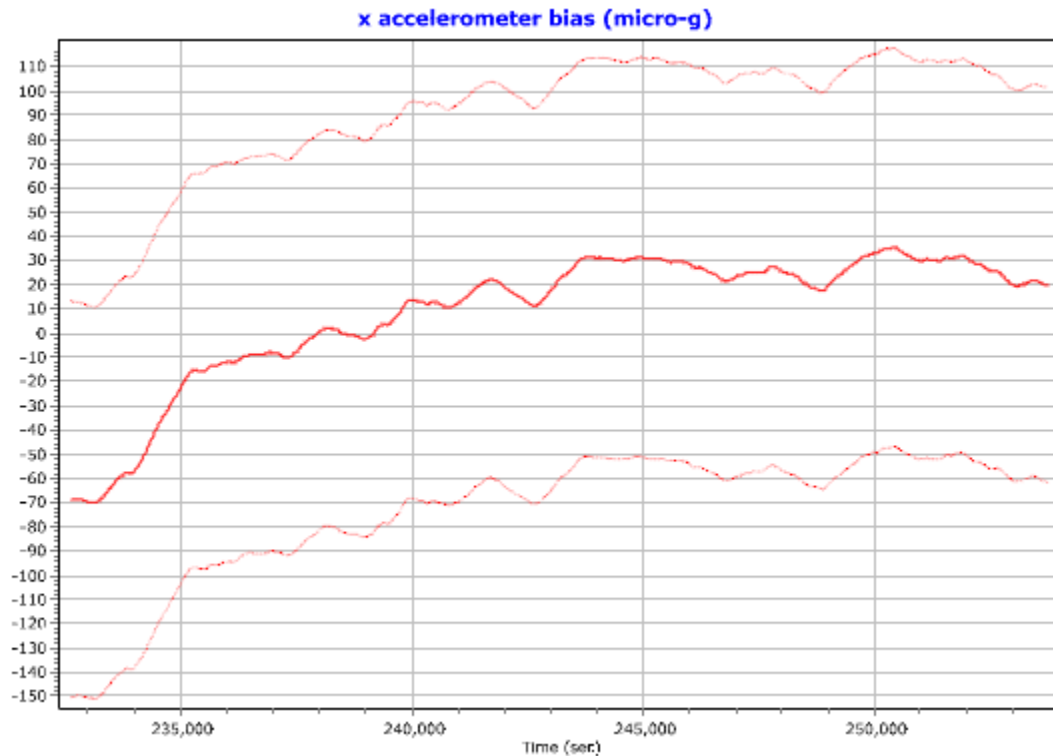
Percentages of epochs with DD_DOP over 10.00:

DOP over Tol: 0.0 %

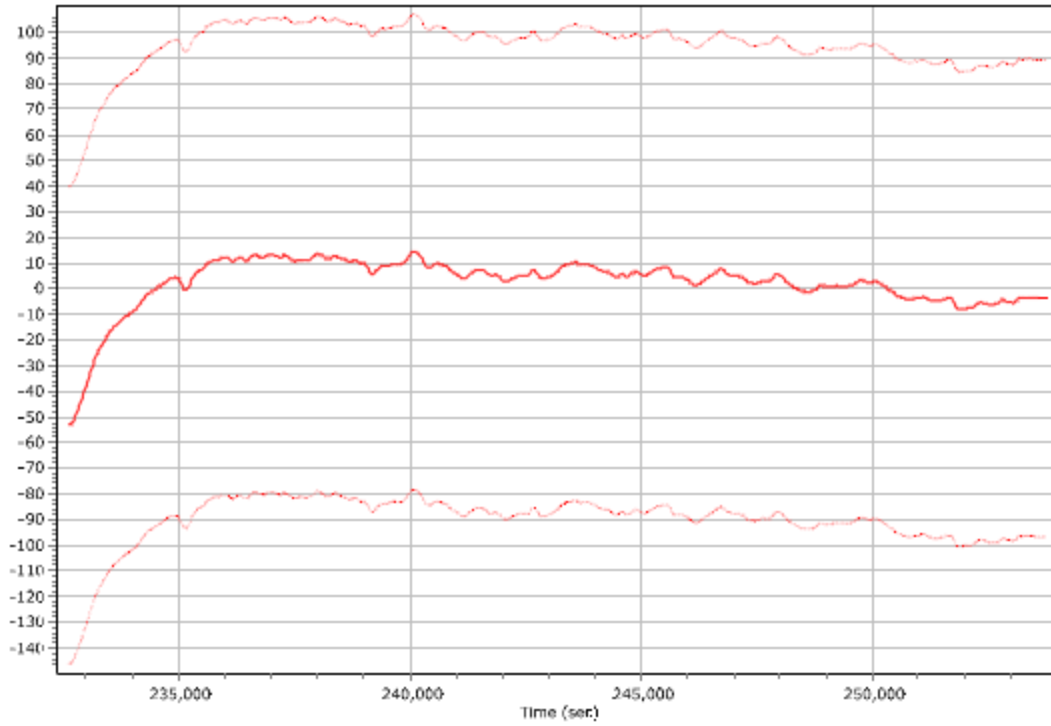
Baseline Distances:

Maximum: 96.388 (km)
Minimum: 4.421 (km)
Average: 49.415 (km)
First Epoch: 65.422 (km)
Last Epoch: 69.067 (km)

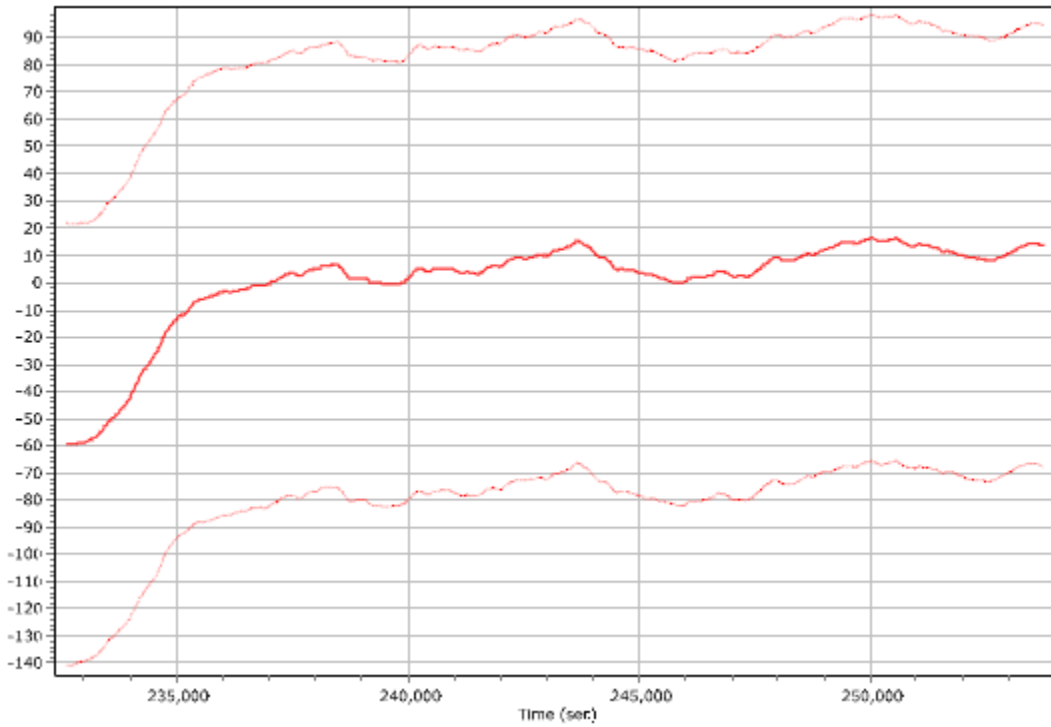
Mission 9 - 6418009a Sensor Errors



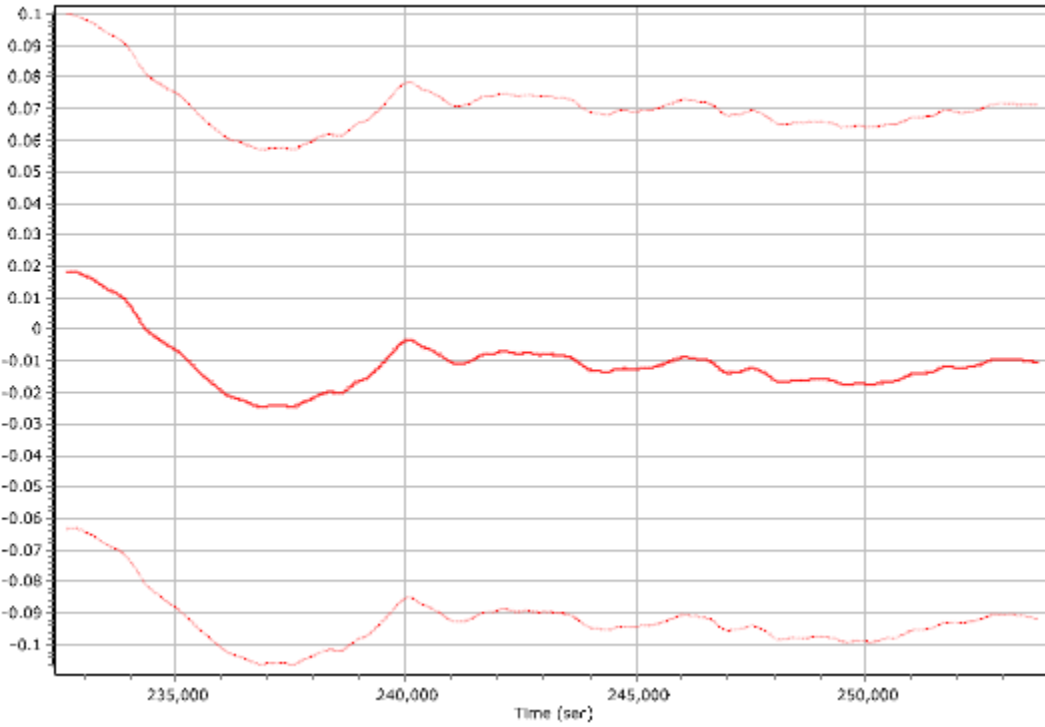
z accelerometer bias (micro-g)



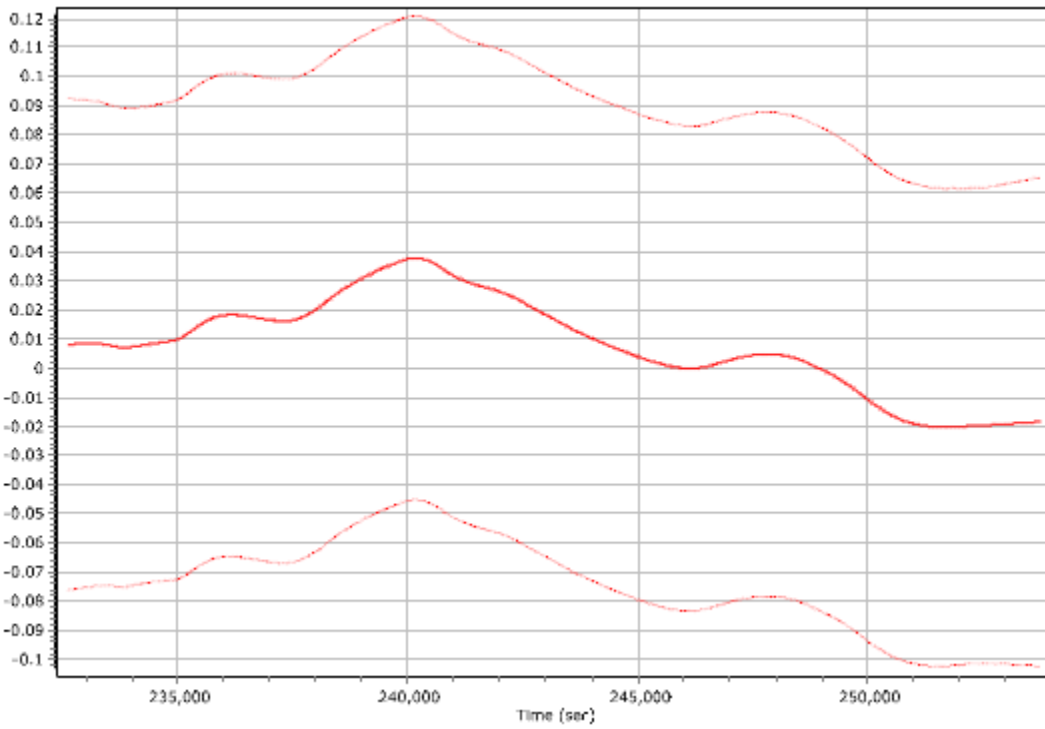
y accelerometer bias (micro-g)



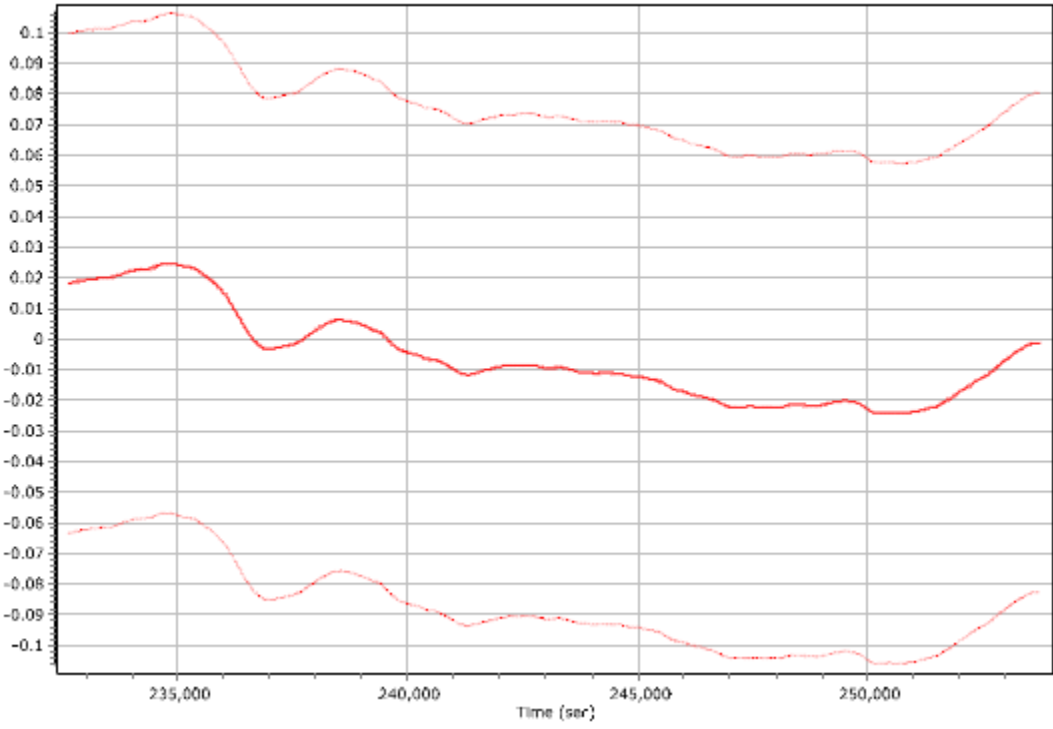
x gyro bias (deg/hr)



z gyro bias (deg/hr)



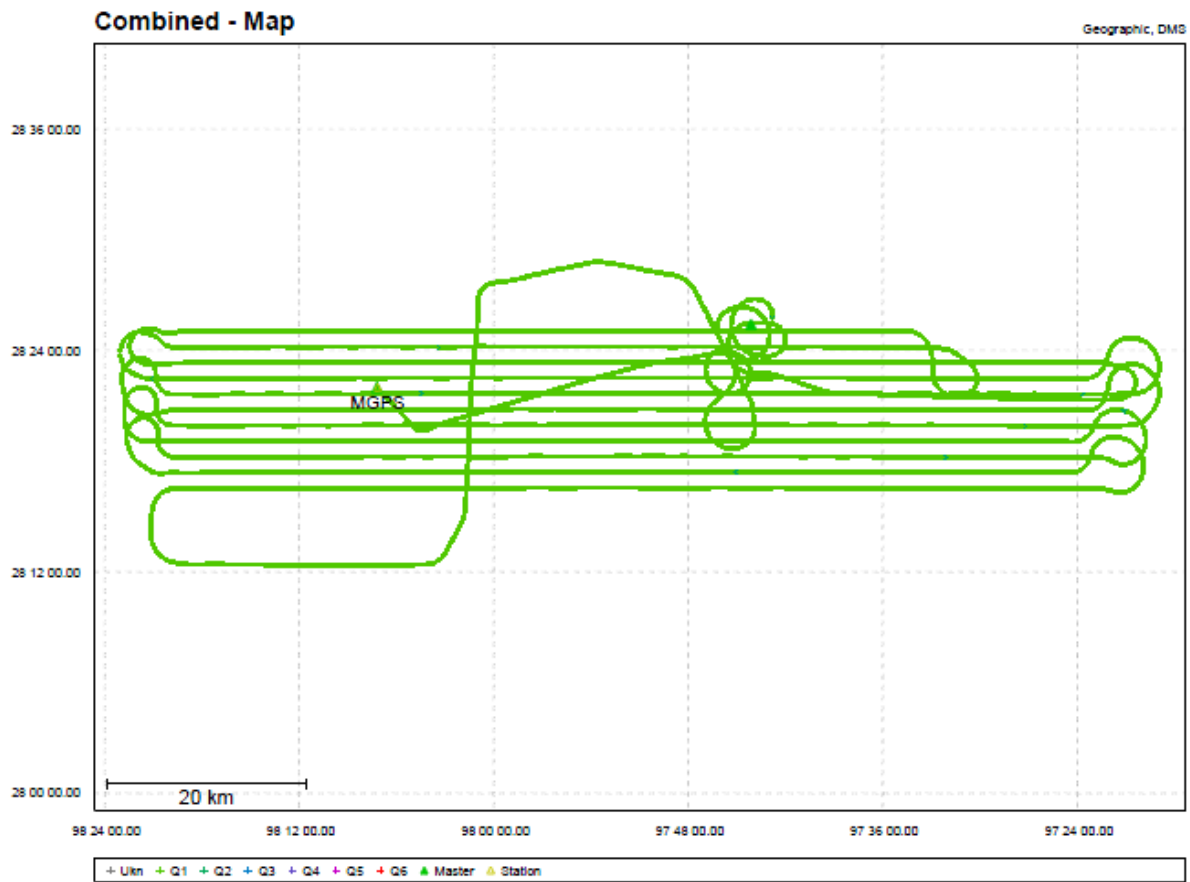
y gyro bias (deg/hr)

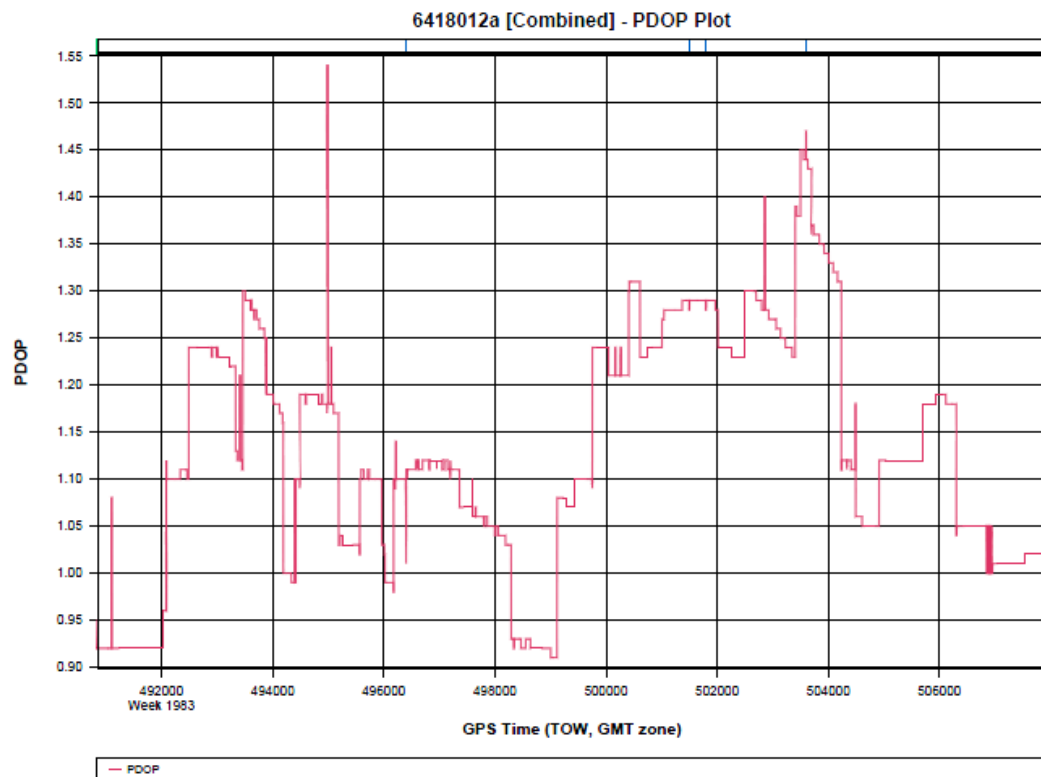
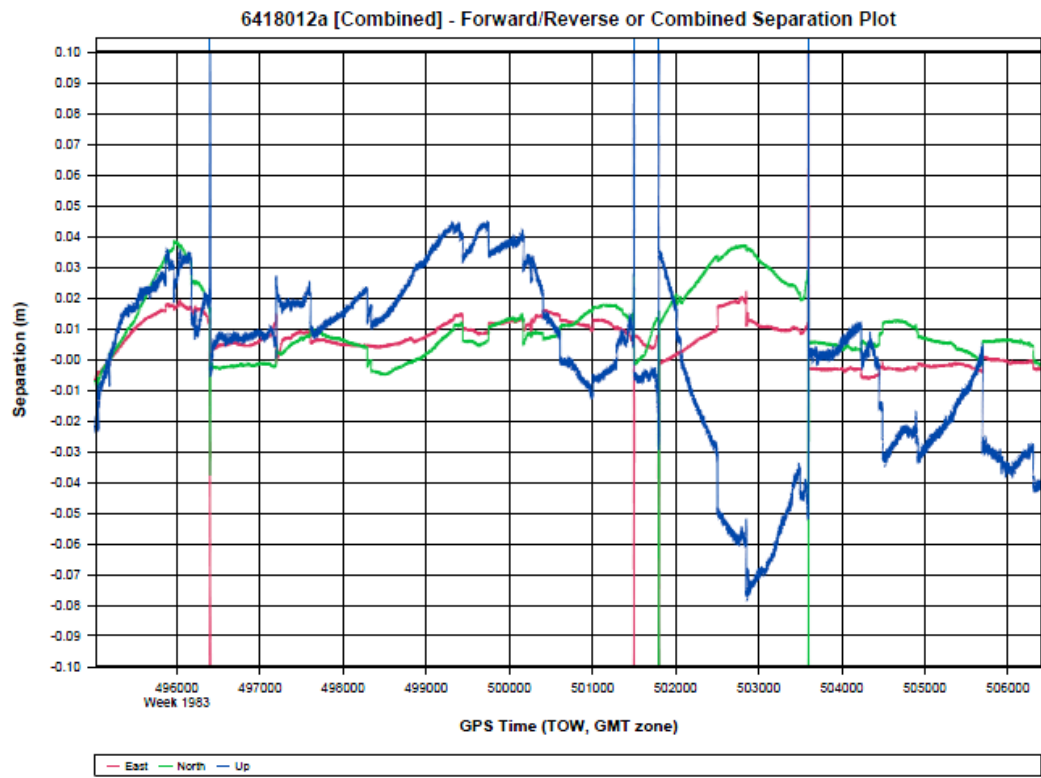


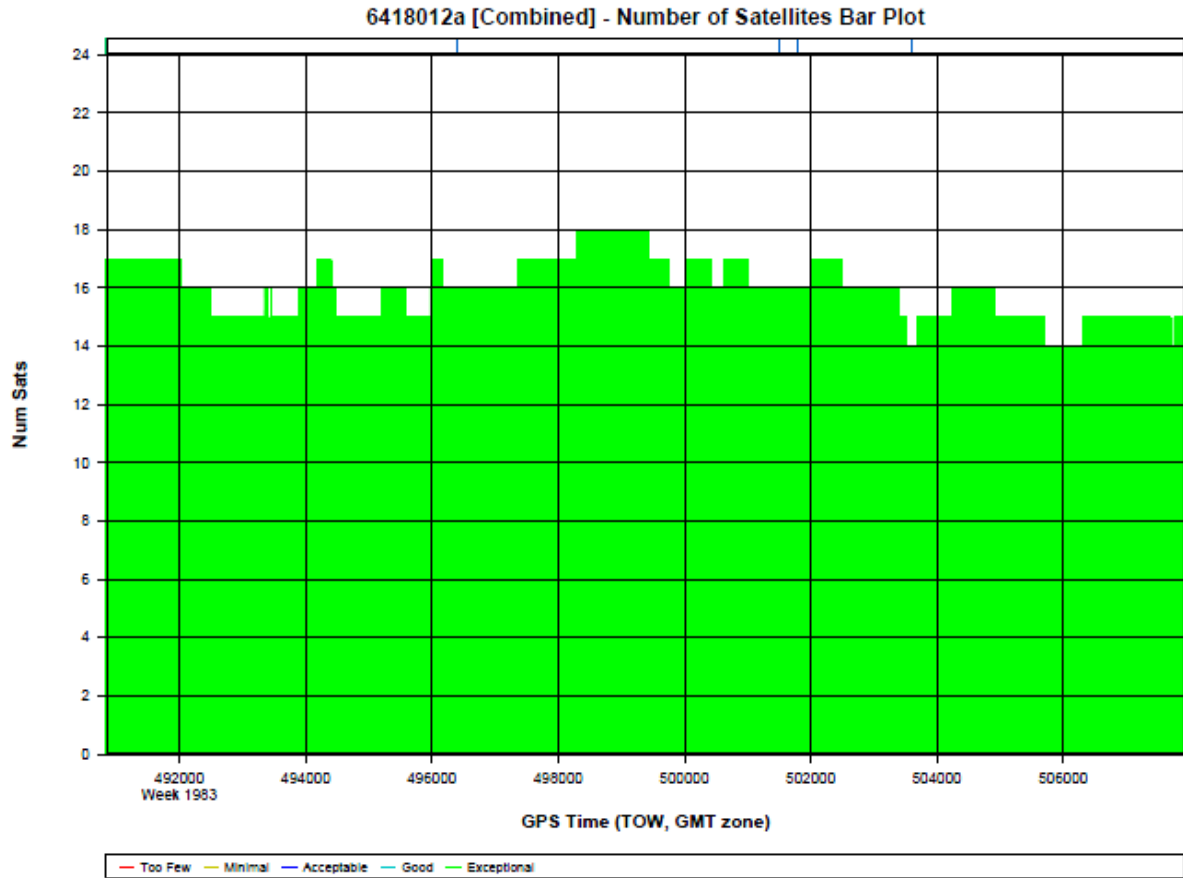
Mission 10 - 6418012a GNSS Processing

Project: 6418012a

GrafNav v8.50.4320







Processing Summary Information

Program: GrafNav
 Version: 8.50.4320
 Project: D:\Projects\3122_Atascosa-2018\Lidar\6418012a\05_INS-GPS_PROC\01_POS\6418012a\6418012a\GNSS\6418012a.gnv

Solution Type: Combined

Number of Epochs:

Total in GPB file: 17086
 No processed position: 0
 Missing Fwd or Rev: 8
 With bad C/A code: 0
 With bad L1 Phase: 0

Measurement RMS Values:

L1 Phase: 0.0209 (m)
C/A Code: 0.83 (m)
L1 Doppler: 0.561 (m/s)

Fwd/Rev Separation RMS Values:

East: 0.008 (m)
North: 0.014 (m)
Height: 0.040 (m)

Fwd/Rev Sep. RMS for dual FWD/REV fixes (17073 occurrences):

East: 0.008 (m)
North: 0.013 (m)
Height: 0.026 (m)

Quality Number Percentages:

Q 1: 99.8 %
Q 2: 0.2 %
Q 3: 0.0 %
Q 4: 0.0 %
Q 5: 0.0 %
Q 6: 0.0 %

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 %

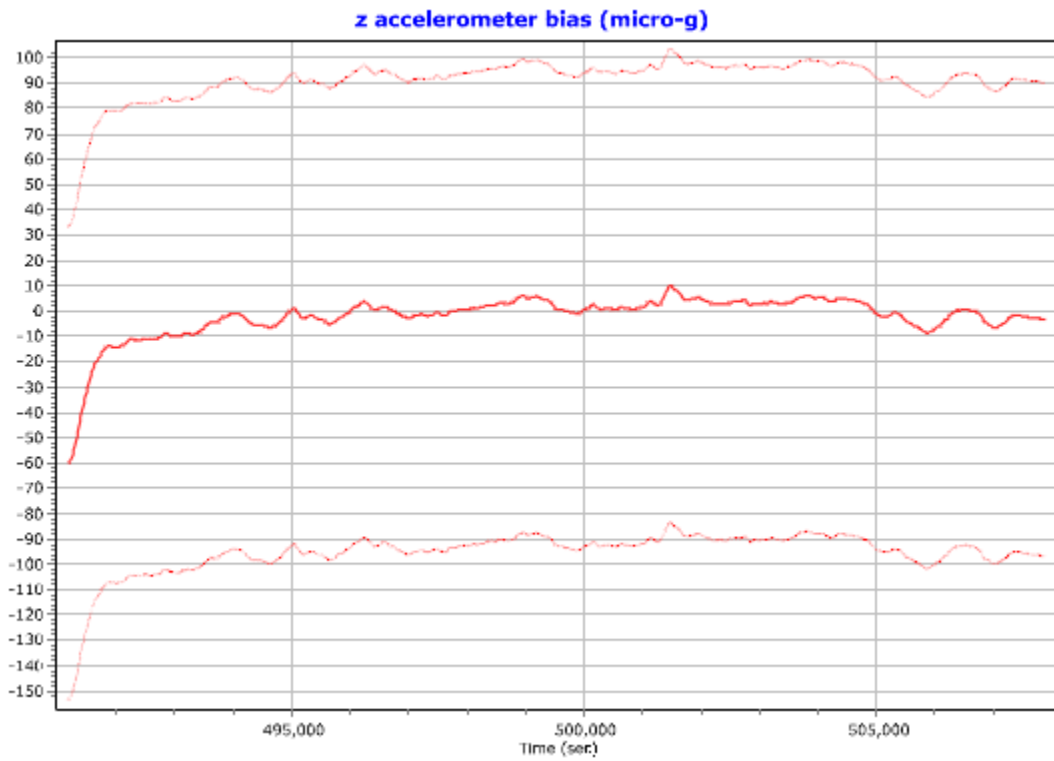
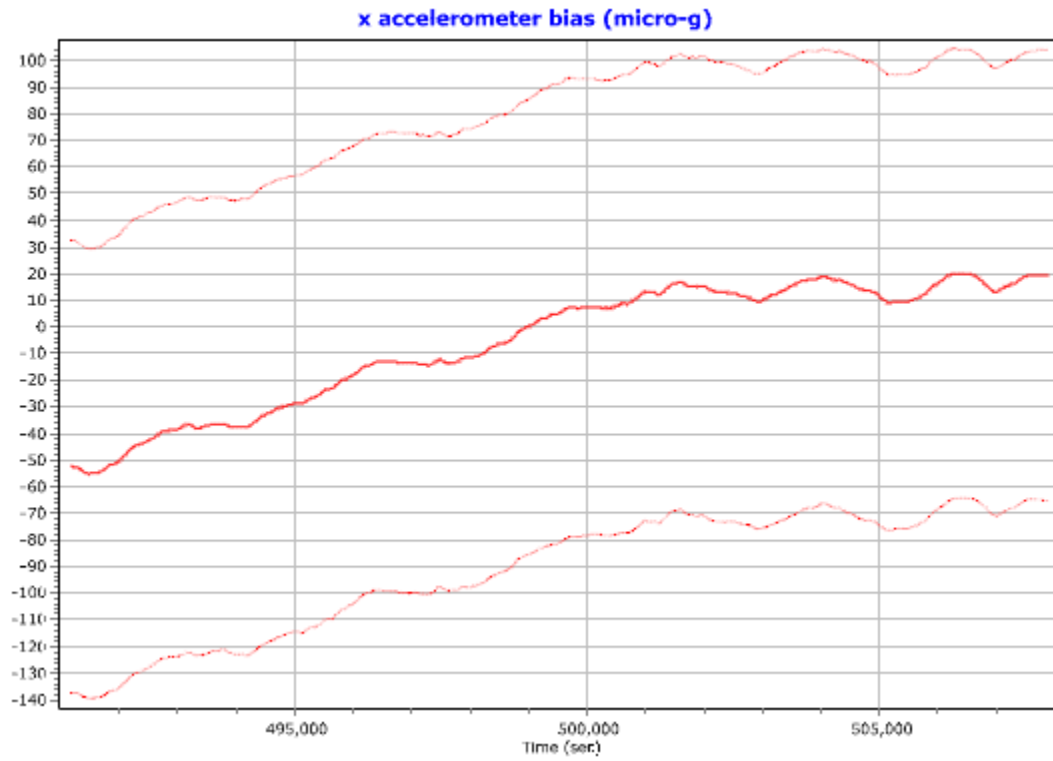
Percentages of epochs with DD_DOP over 10.00:

DOP over Tol:	0.0 %
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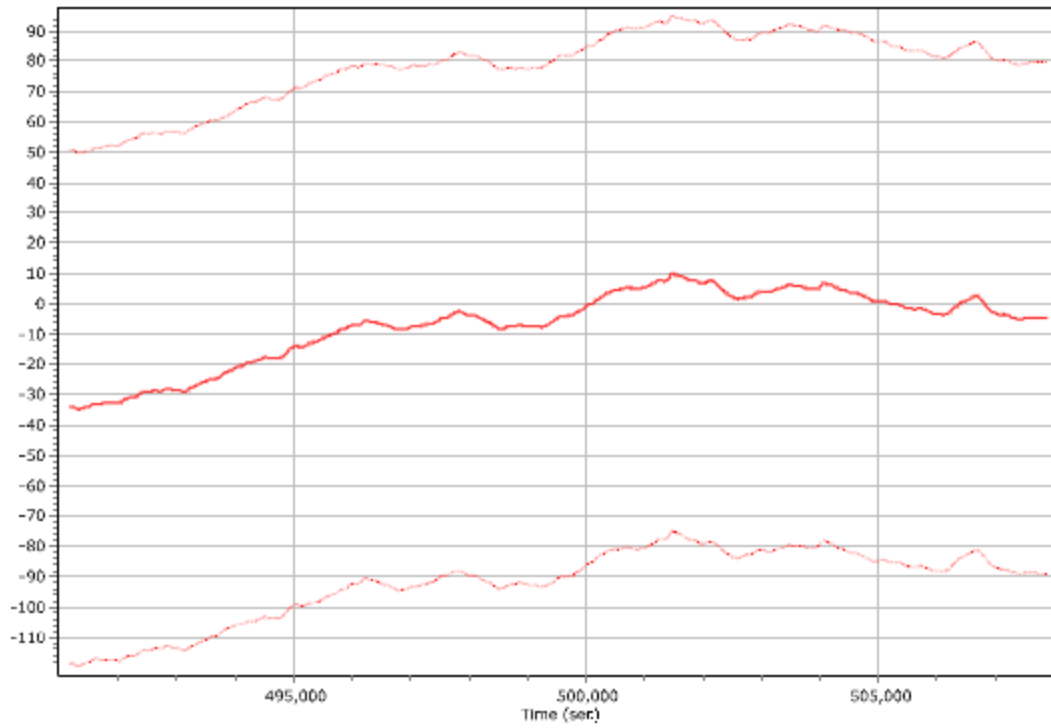
Baseline Distances:

Maximum:	60.055 (km)
Minimum:	2.137 (km)
Average:	26.704 (km)
First Epoch:	21.429 (km)
Last Epoch:	19.041 (km)

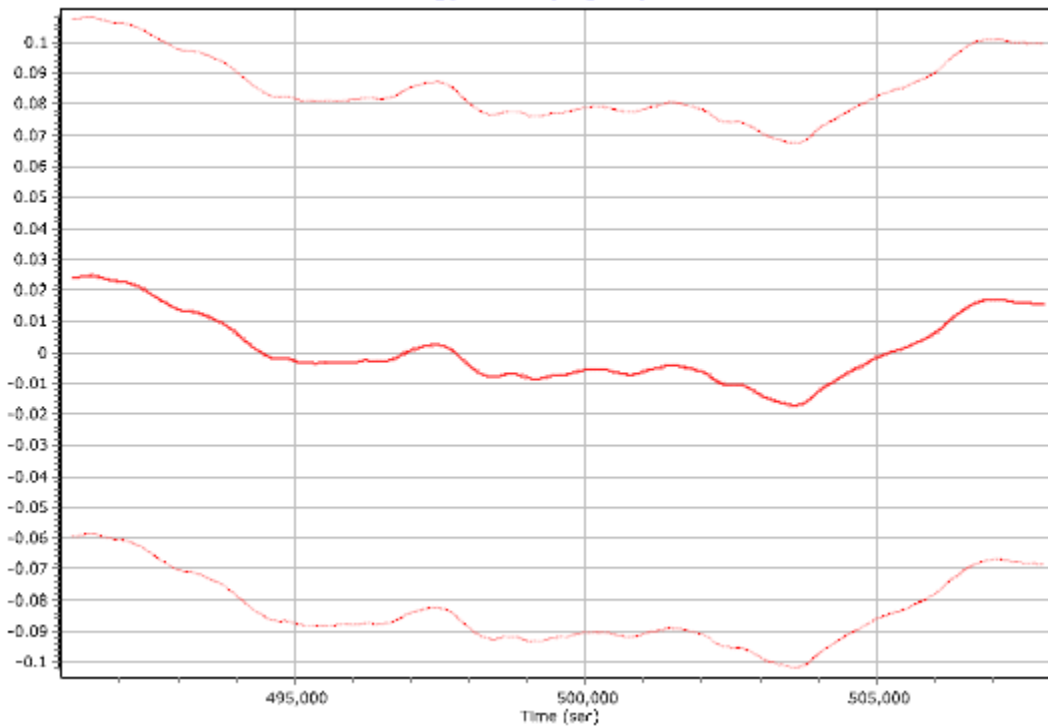
Mission 10 - 6418012a Sensor Errors



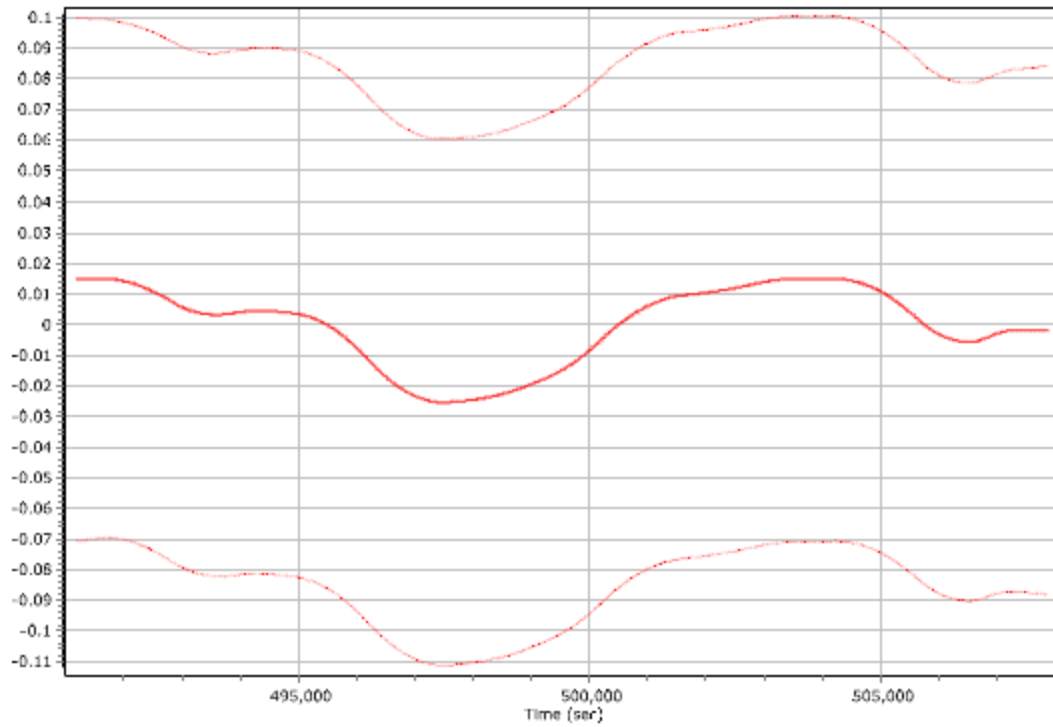
y accelerometer bias (micro-g)



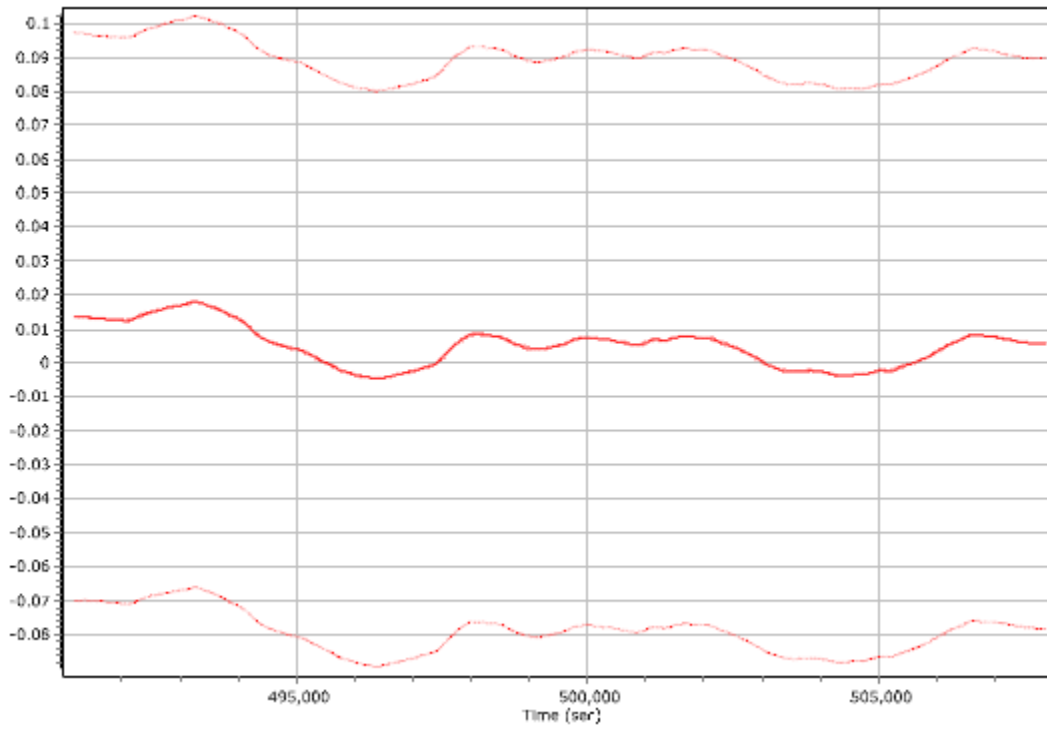
x gyro bias (deg/hr)



z gyro bias (deg/hr)



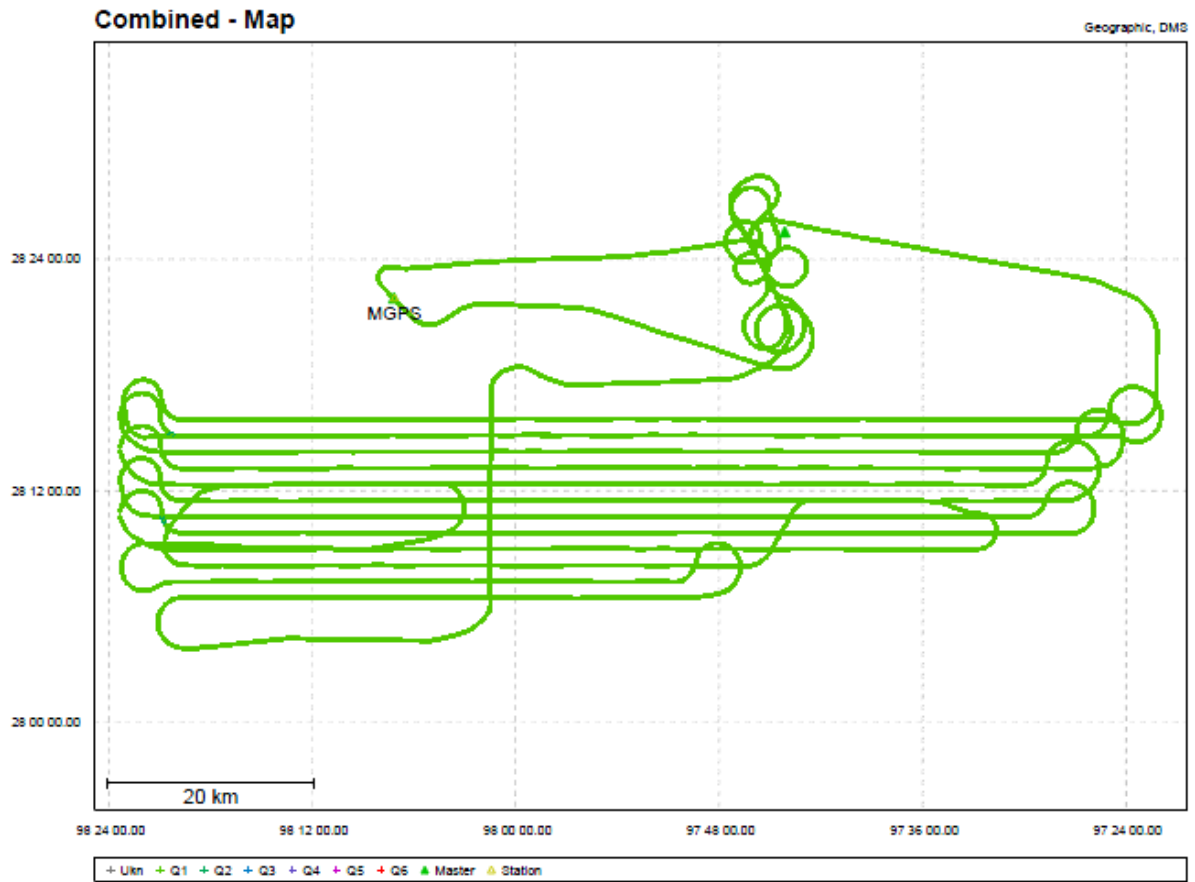
y gyro bias (deg/hr)

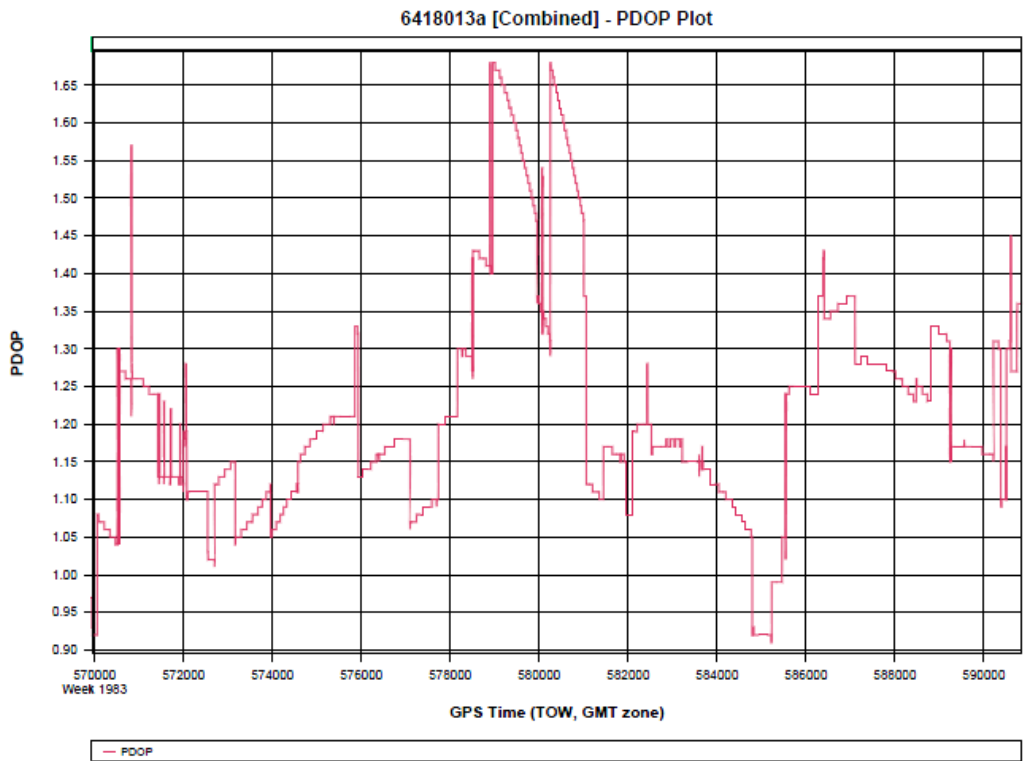
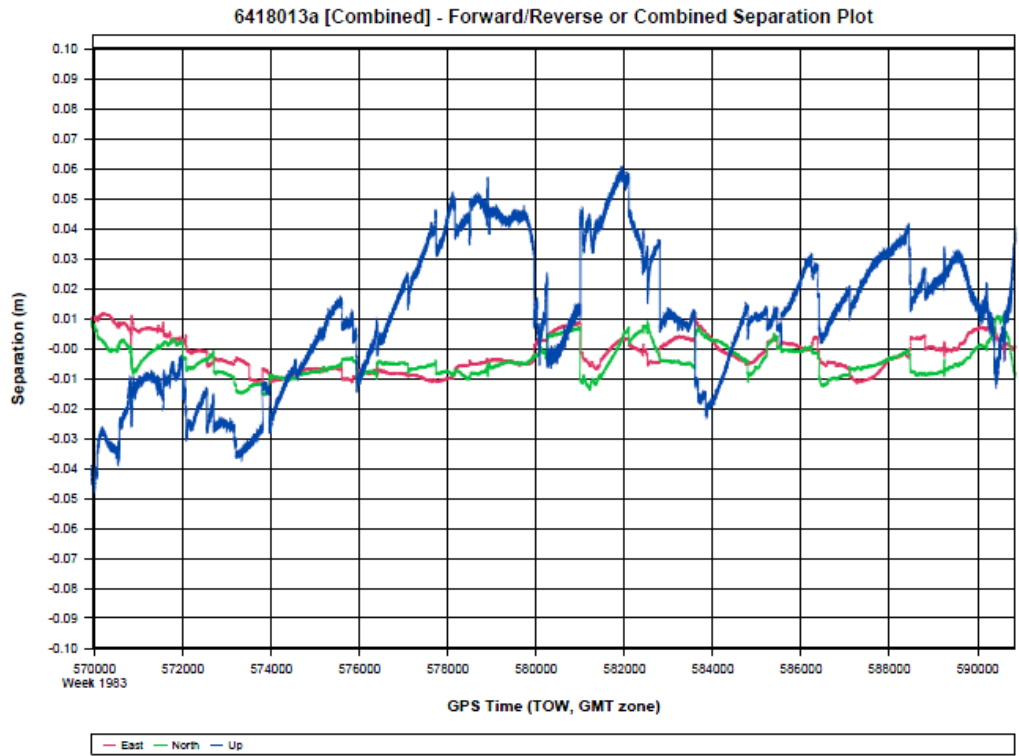


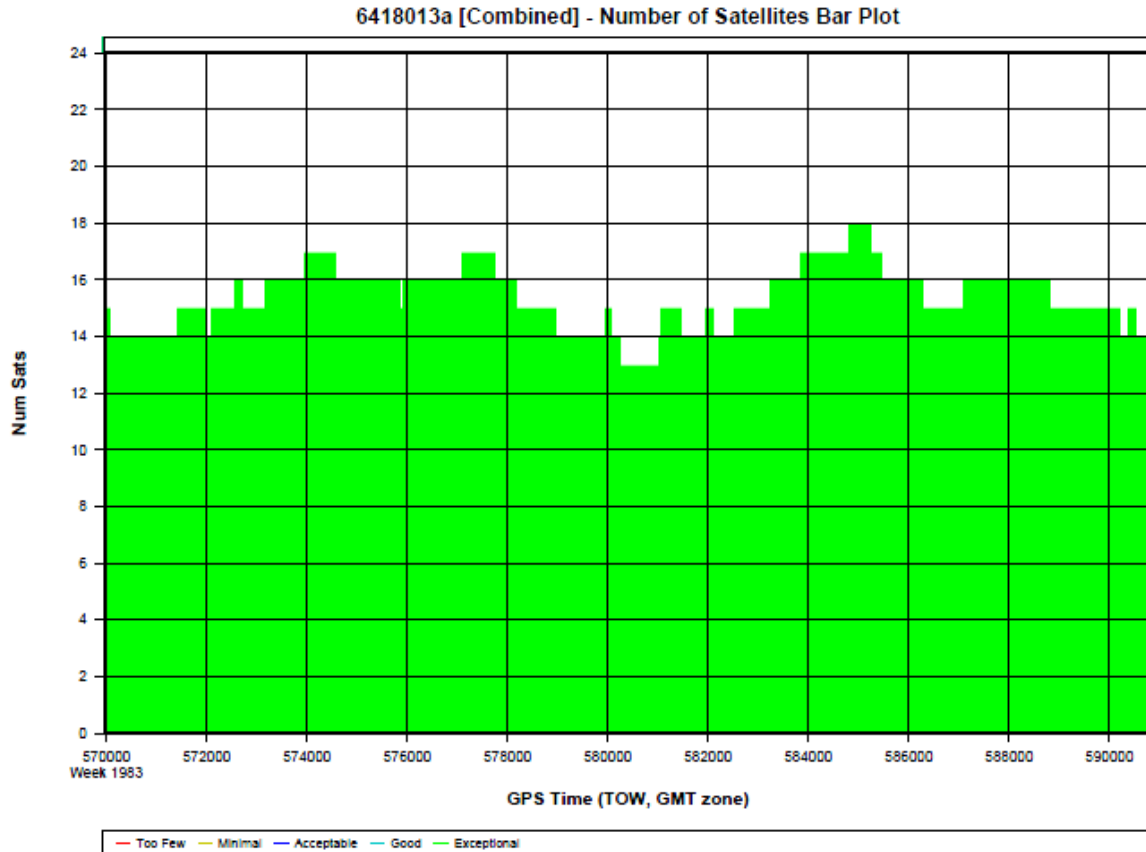
Mission 11 - 6418013a GNSS Processing

Project: 6418013a

GrafNav v8.50.4320







Processing Summary Information

Program: GrafNav
 Version: 8.50.4320
 Project: D:\Projects\3122_Atascosa-2018\Lidar\6418013a\05_INS-GPS_PROC\01_POS\6418013a\6418013a\GNSS\6418013a.gnv

Solution Type: Combined

Number of Epochs:

Total in GPB file: 20916
 No processed position: 0
 Missing Fwd or Rev: 5
 With bad C/A code: 0
 With bad L1 Phase: 0

Measurement RMS Values:

L1 Phase: 0.0177 (m)
C/A Code: 0.81 (m)
L1 Doppler: 0.570 (m/s)

Fwd/Rev Separation RMS Values:

East: 0.006 (m)
North: 0.007 (m)
Height: 0.026 (m)

Fwd/Rev Sep. RMS for dual FWD/REV fixes (20911 occurrences):

East: 0.006 (m)
North: 0.007 (m)
Height: 0.026 (m)

Quality Number Percentages:

Q 1: 99.9 %
Q 2: 0.1 %
Q 3: 0.0 %
Q 4: 0.0 %
Q 5: 0.0 %
Q 6: 0.0 %

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 %

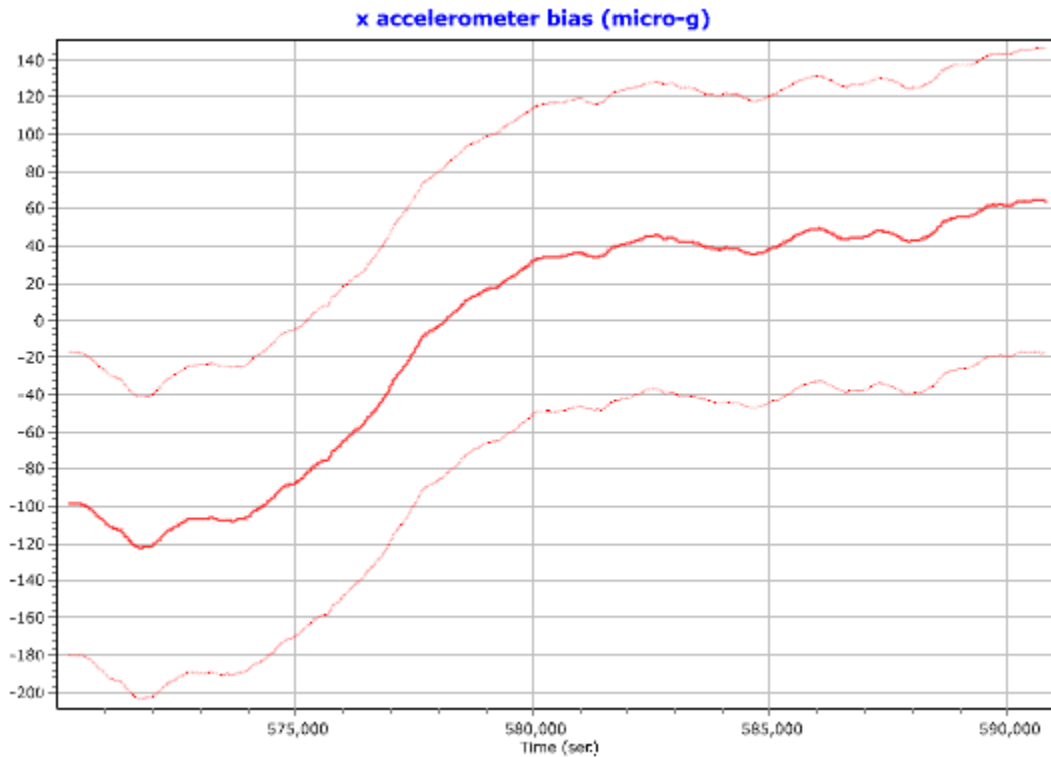
Percentages of epochs with DD_DOP over 10.00:

DOP over Tol: 0.0 %

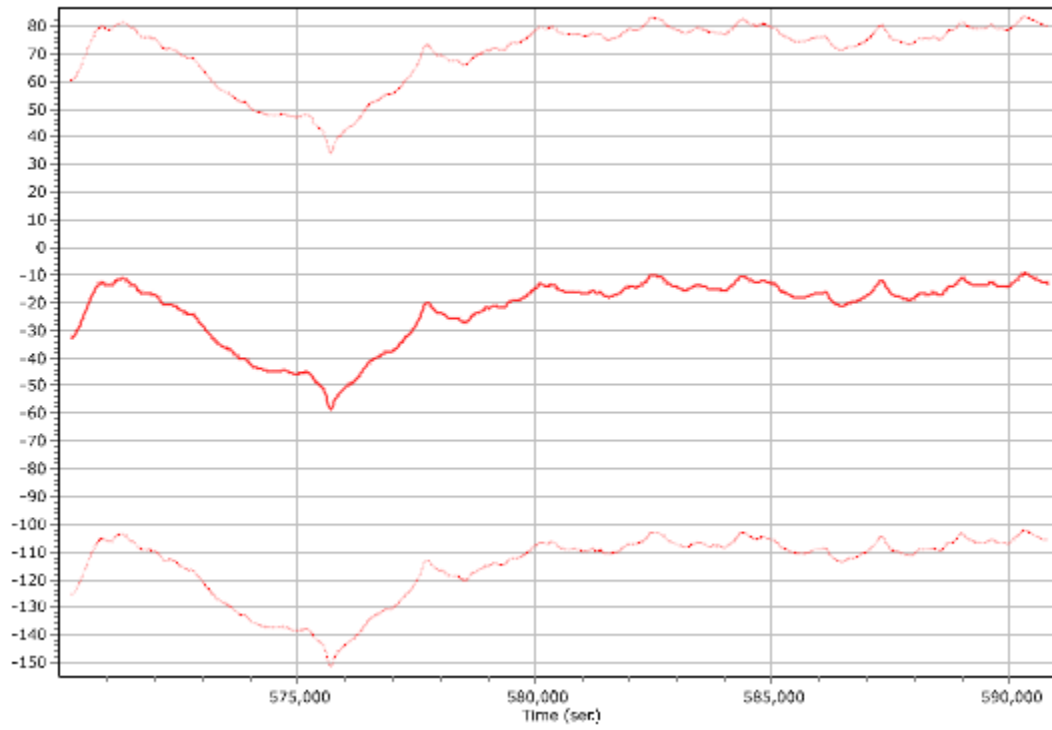
Baseline Distances:

Maximum: 57.062 (km)
Minimum: 0.031 (km)
Average: 30.519 (km)
First Epoch: 18.927 (km)
Last Epoch: 0.053 (km)

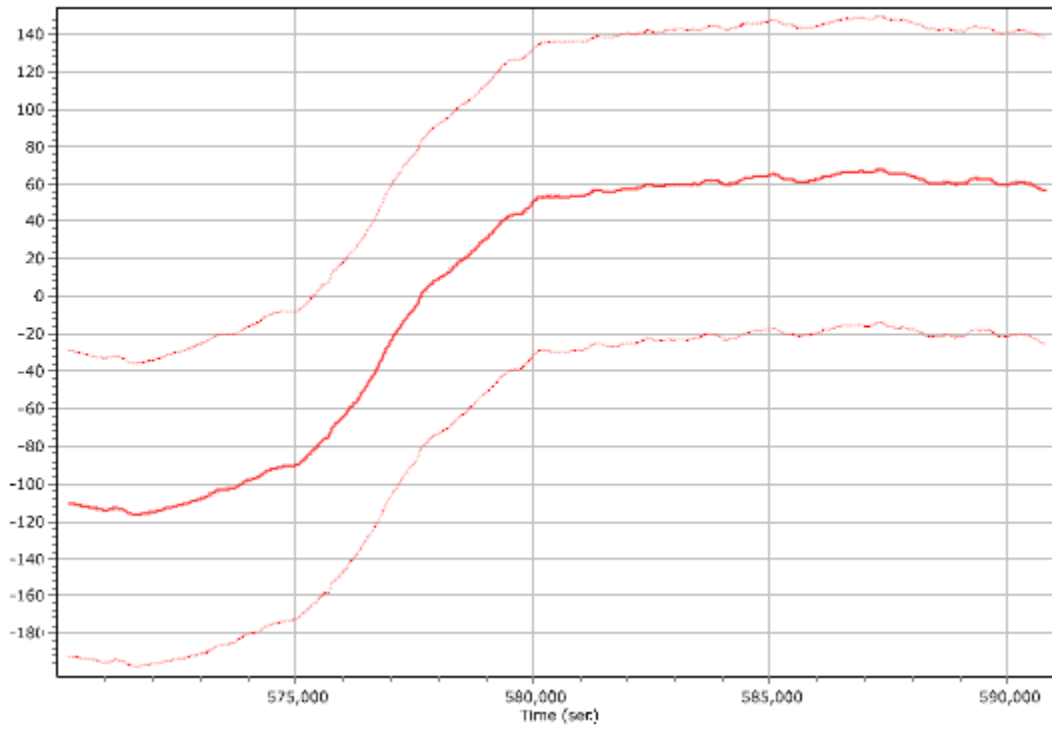
Mission 11 - 6418013a Sensor Errors



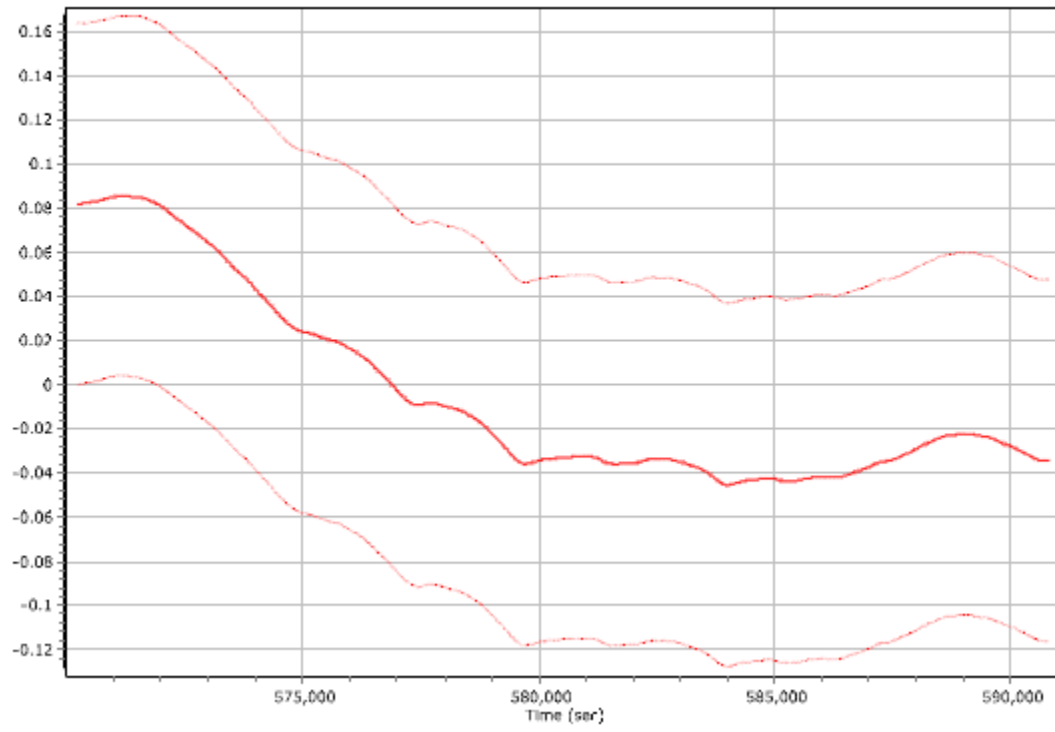
z accelerometer bias (micro-g)



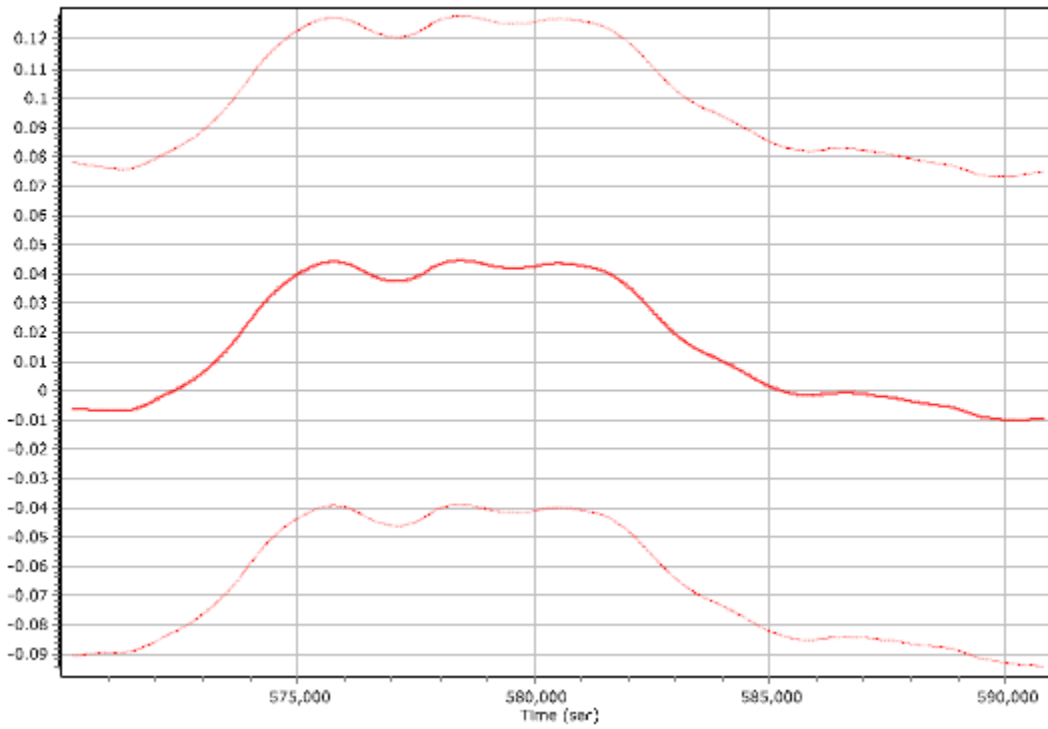
y accelerometer bias (micro-g)



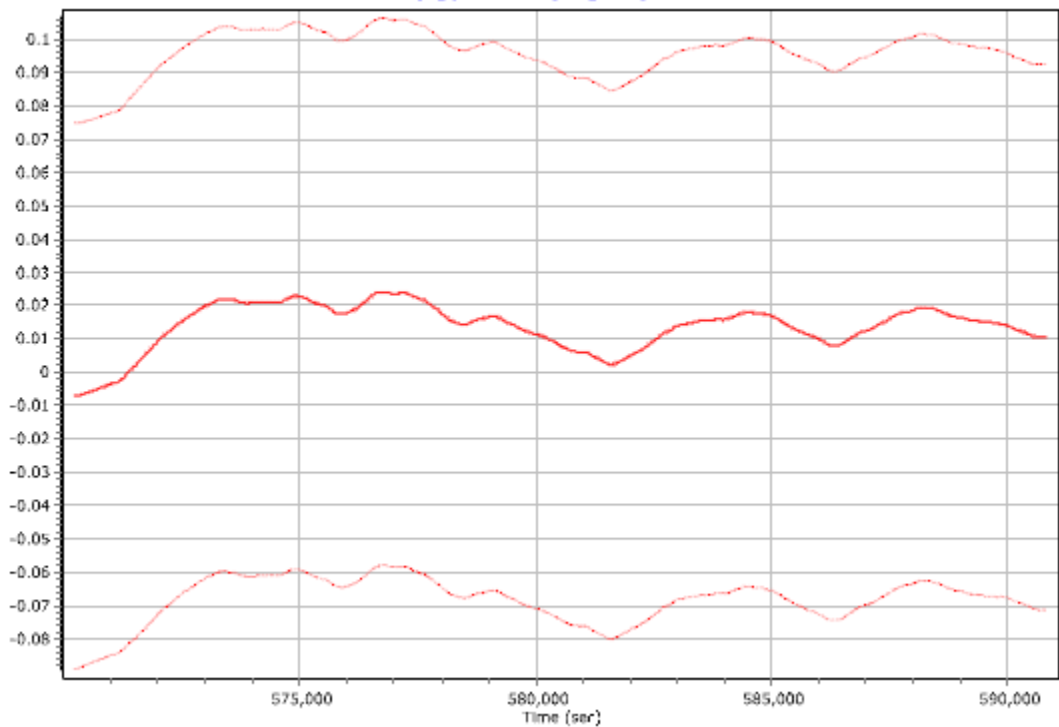
x gyro bias (deg/hr)



z gyro bias (deg/hr)



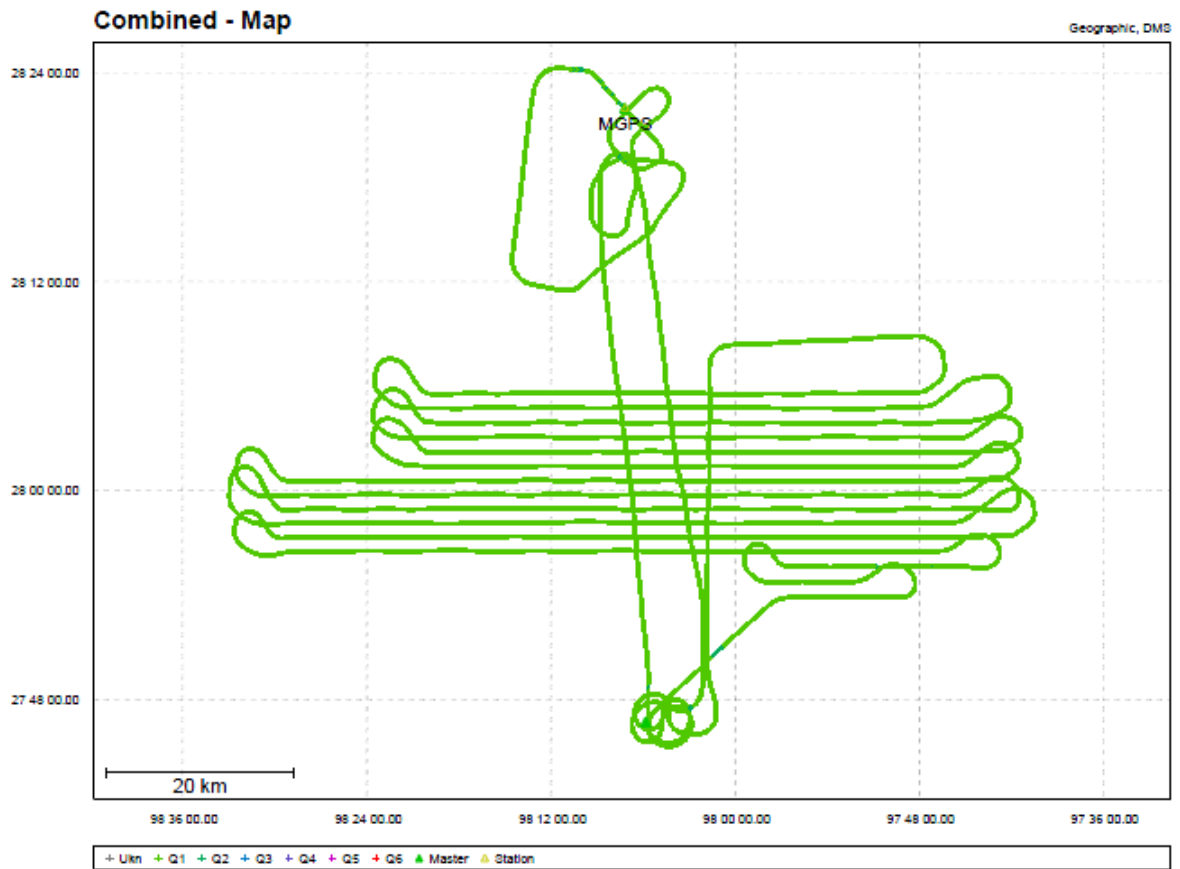
y gyro bias (deg/hr)

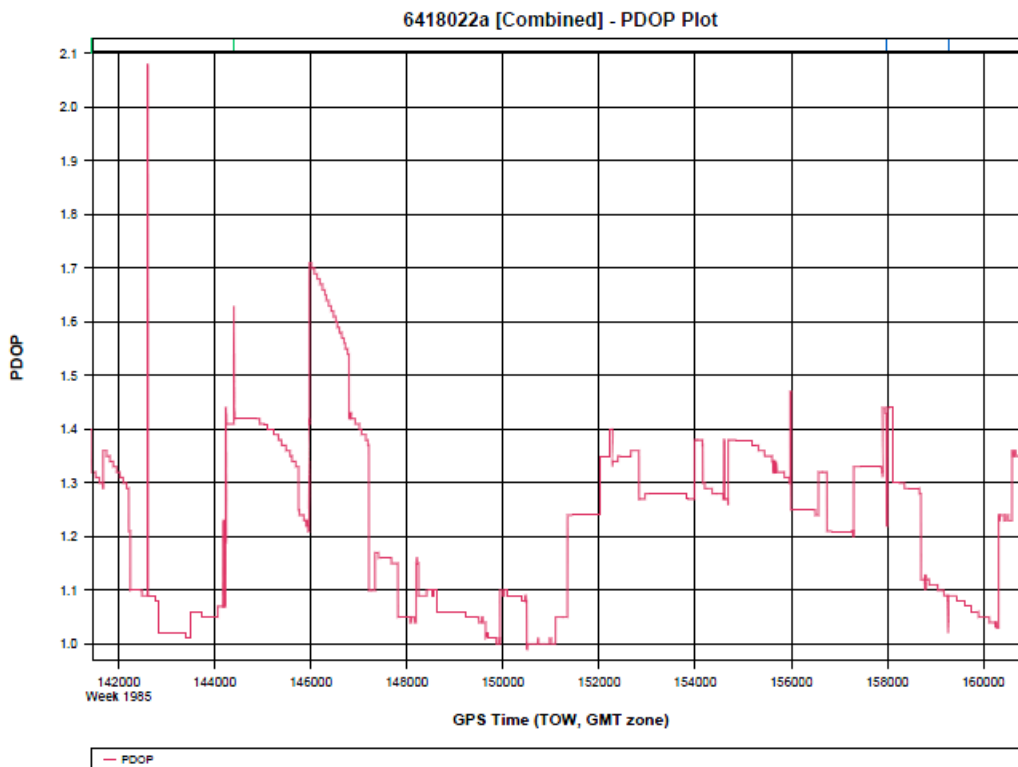
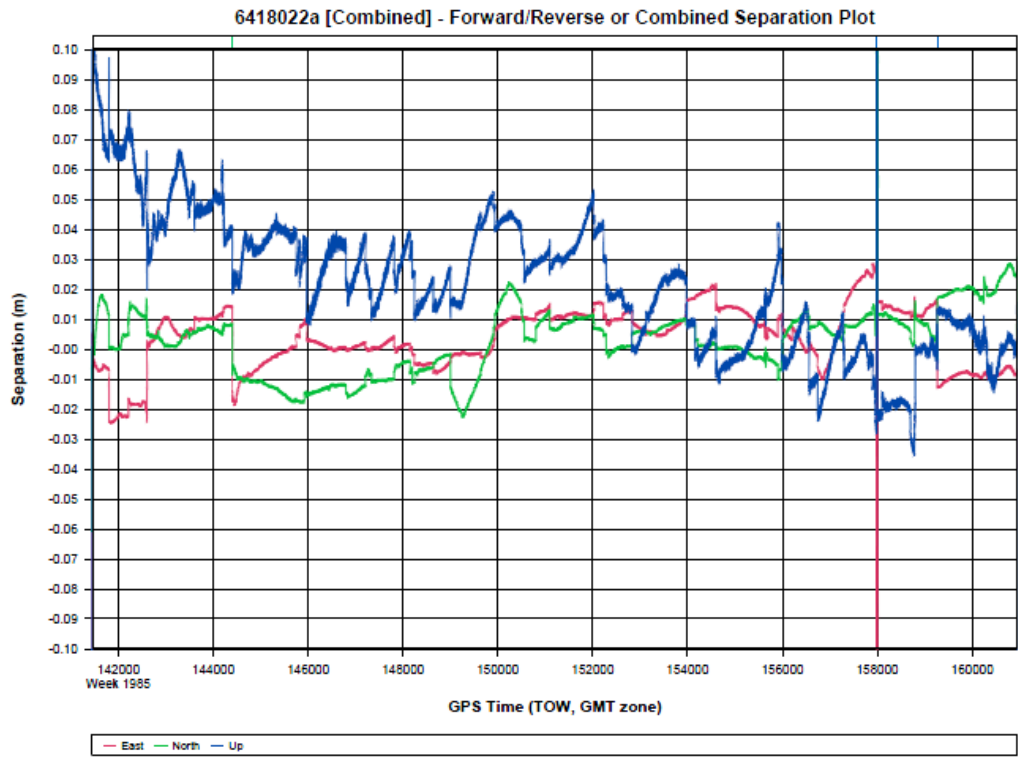


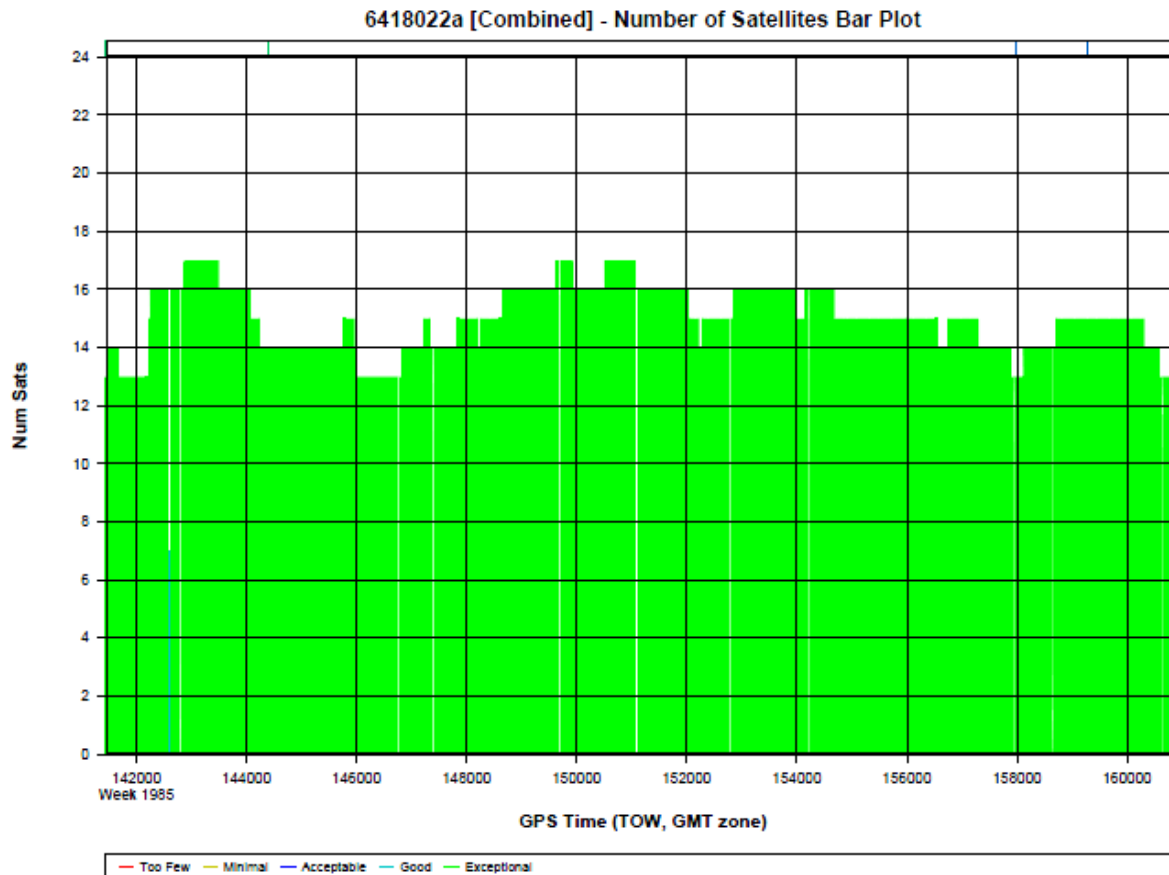
Mission 12 - 6418022a GNSS Processing

Project: 6418022a

GrafNav v8.50.4320







Processing Summary Information

Program: GrafNav
Version: 8.50.4320
Project: D:\Projects\3122_Atascosa-2018\Lidar\6418022a\05_INS-
GPS_PROC\01_POS\6418022a\6418022a\GNSS\6418022a.gnv

Solution Type: Combined

Number of Epochs:

Total in GPB file: 19509
No processed position: 0
Missing Fwd or Rev: 7
With bad C/A code: 0

With bad L1 Phase: 0

Measurement RMS Values:

L1 Phase: 0.0213 (m)

C/A Code: 0.83 (m)

L1 Doppler: 0.571 (m/s)

Fwd/Rev Separation RMS Values:

East: 0.012 (m)

North: 0.013 (m)

Height: 0.044 (m)

Fwd/Rev Sep. RMS for dual FWD/REV fixes (19484 occurrences):

East: 0.011 (m)

North: 0.011 (m)

Height: 0.032 (m)

Quality Number Percentages:

Q 1: 99.5 %

Q 2: 0.5 %

Q 3: 0.0 %

Q 4: 0.0 %

Q 5: 0.0 %

Q 6: 0.0 %

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 %

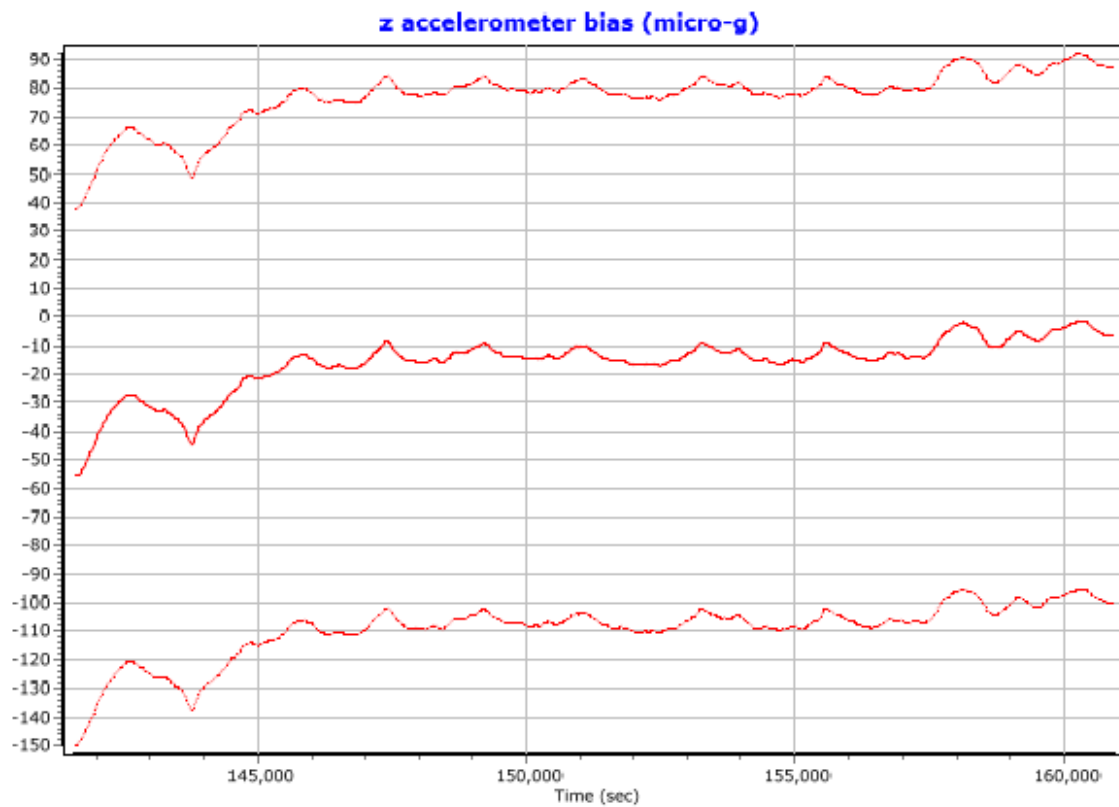
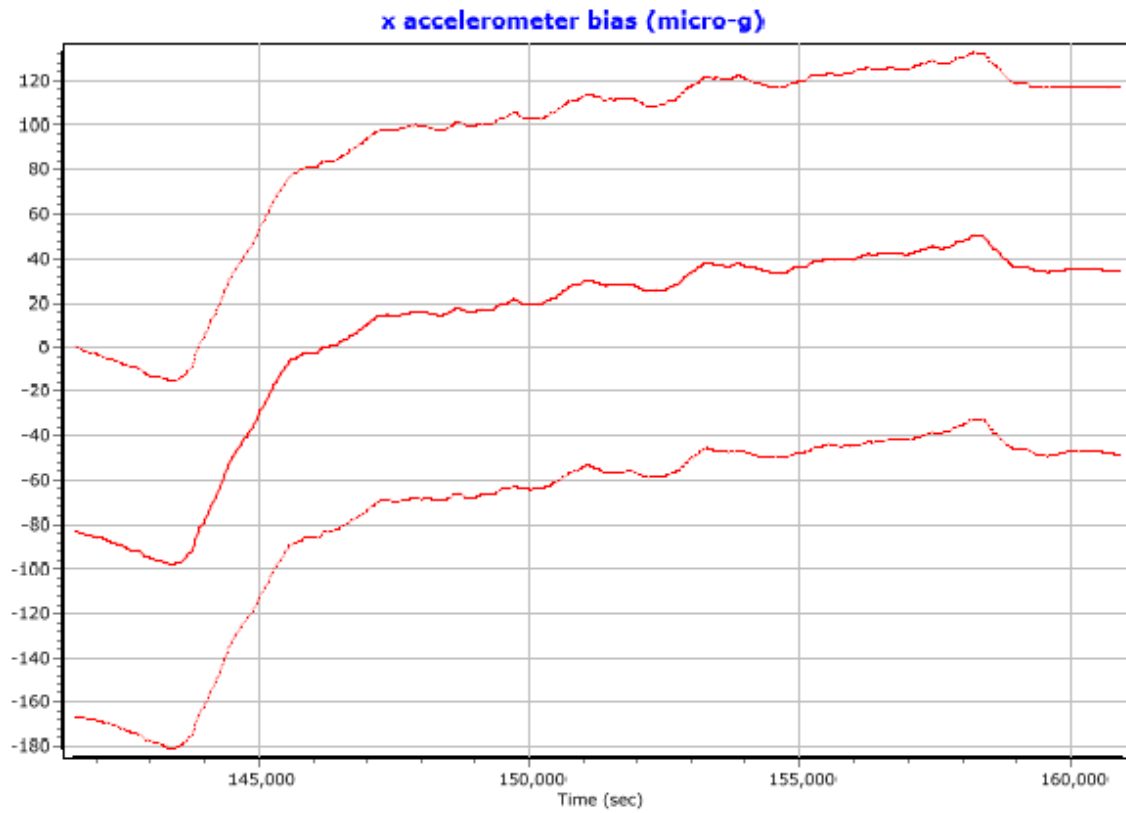
Percentages of epochs with DD_DOP over 10.00:

DOP over Tol:	0.0 %
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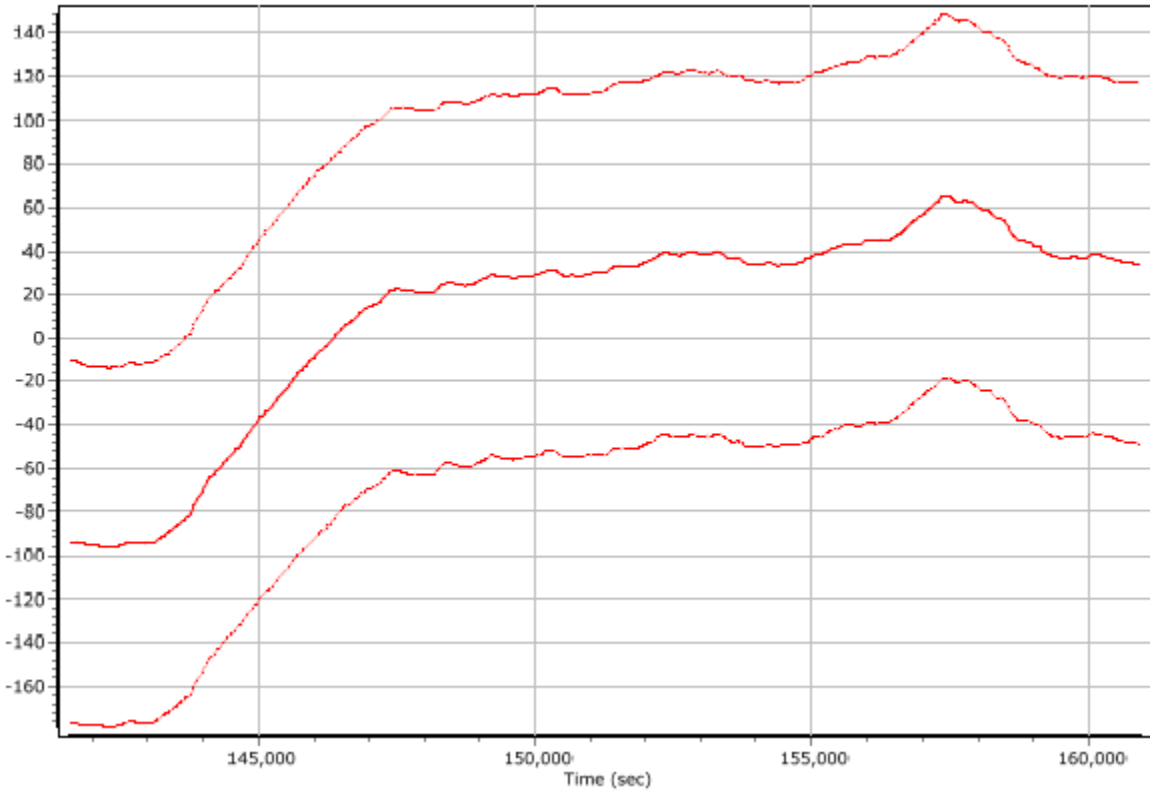
Baseline Distances:

Maximum:	58.975 (km)
Minimum:	1.947 (km)
Average:	23.809 (km)
First Epoch:	32.468 (km)
Last Epoch:	32.490 (km)

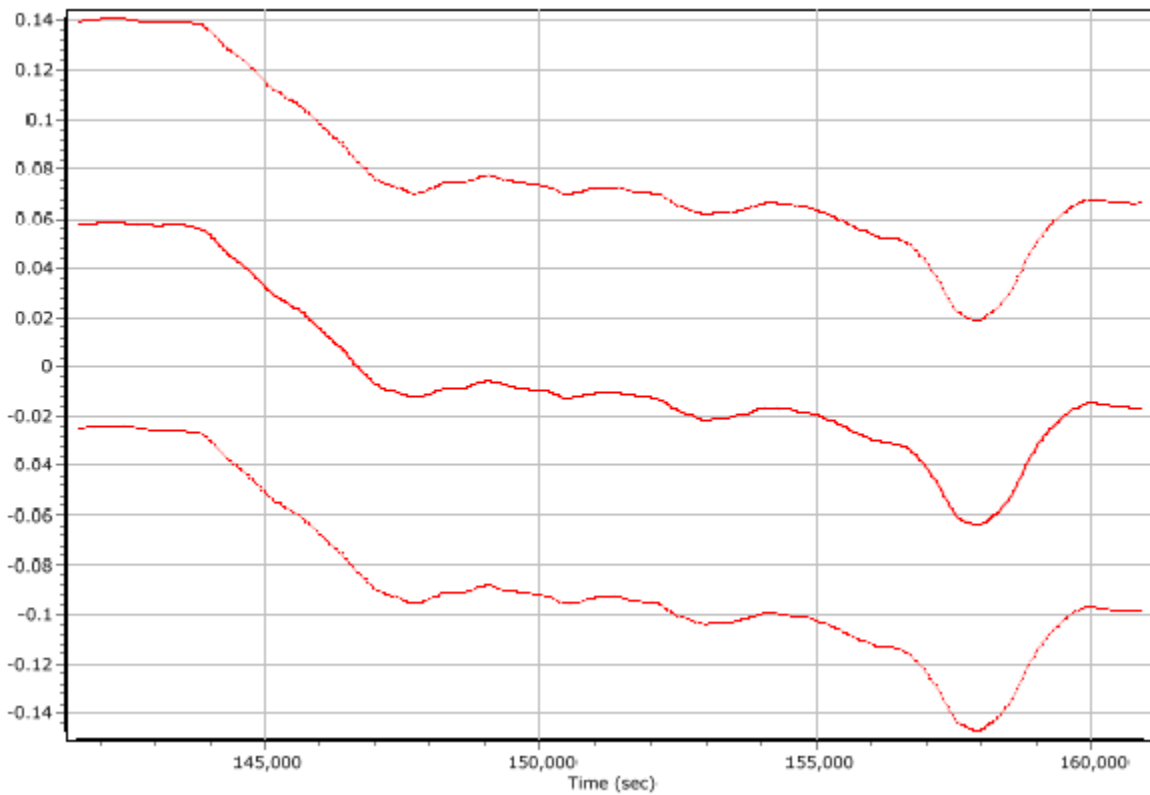
Mission 12 - 6418022a Sensor Errors



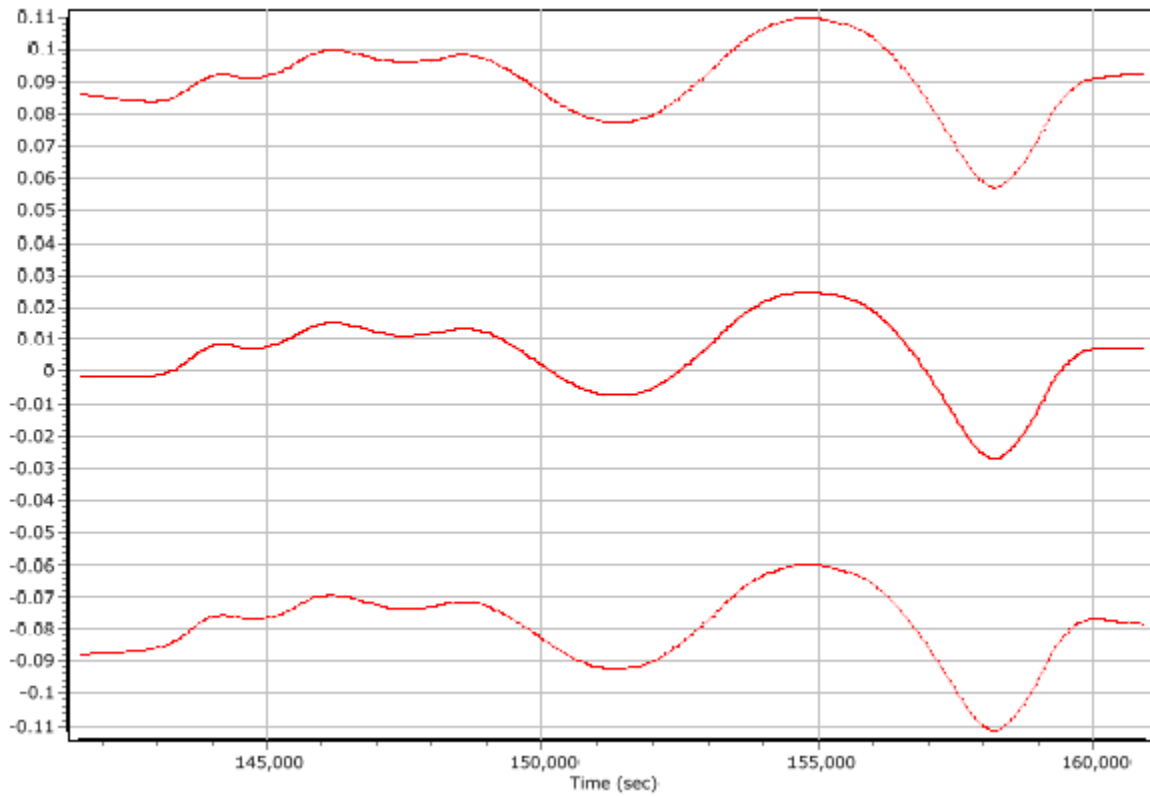
y accelerometer bias (micro-g)



x gyro bias (deg/hr)



z gyro bias (deg/hr)



y gyro bias (deg/hr)

