

Project Report Appendices

The following section contains the appendices as listed in the Clinton-Essex NY 2014 LiDAR Project Report.

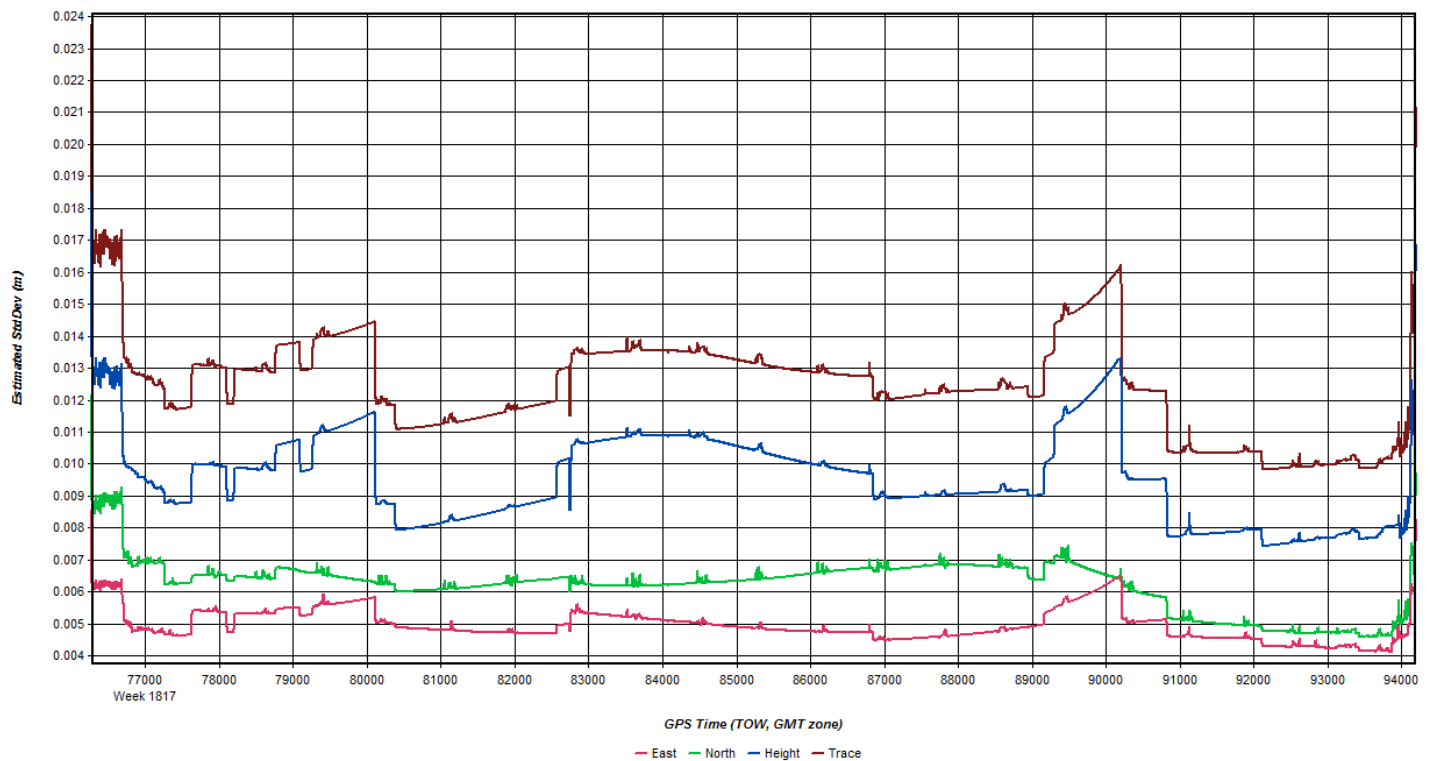
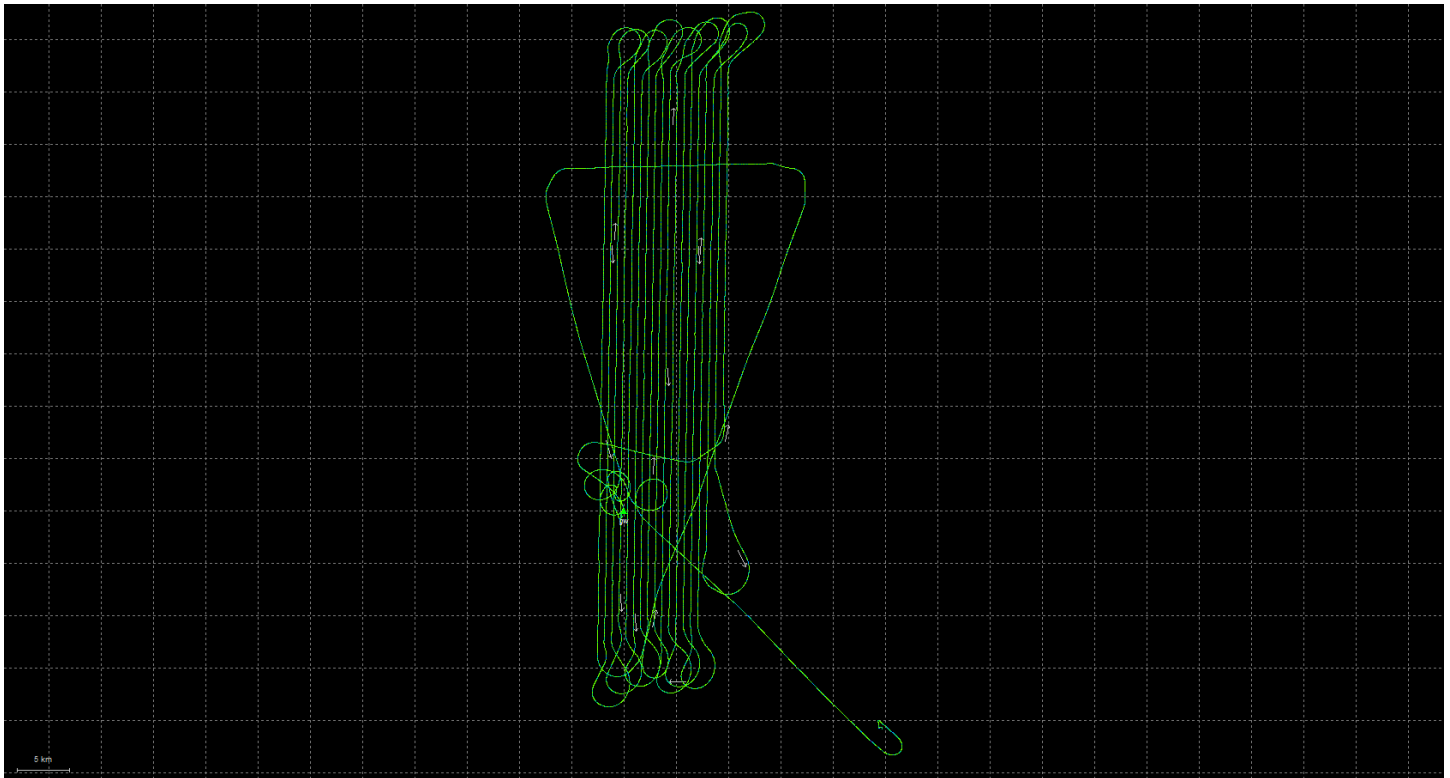
Appendix A

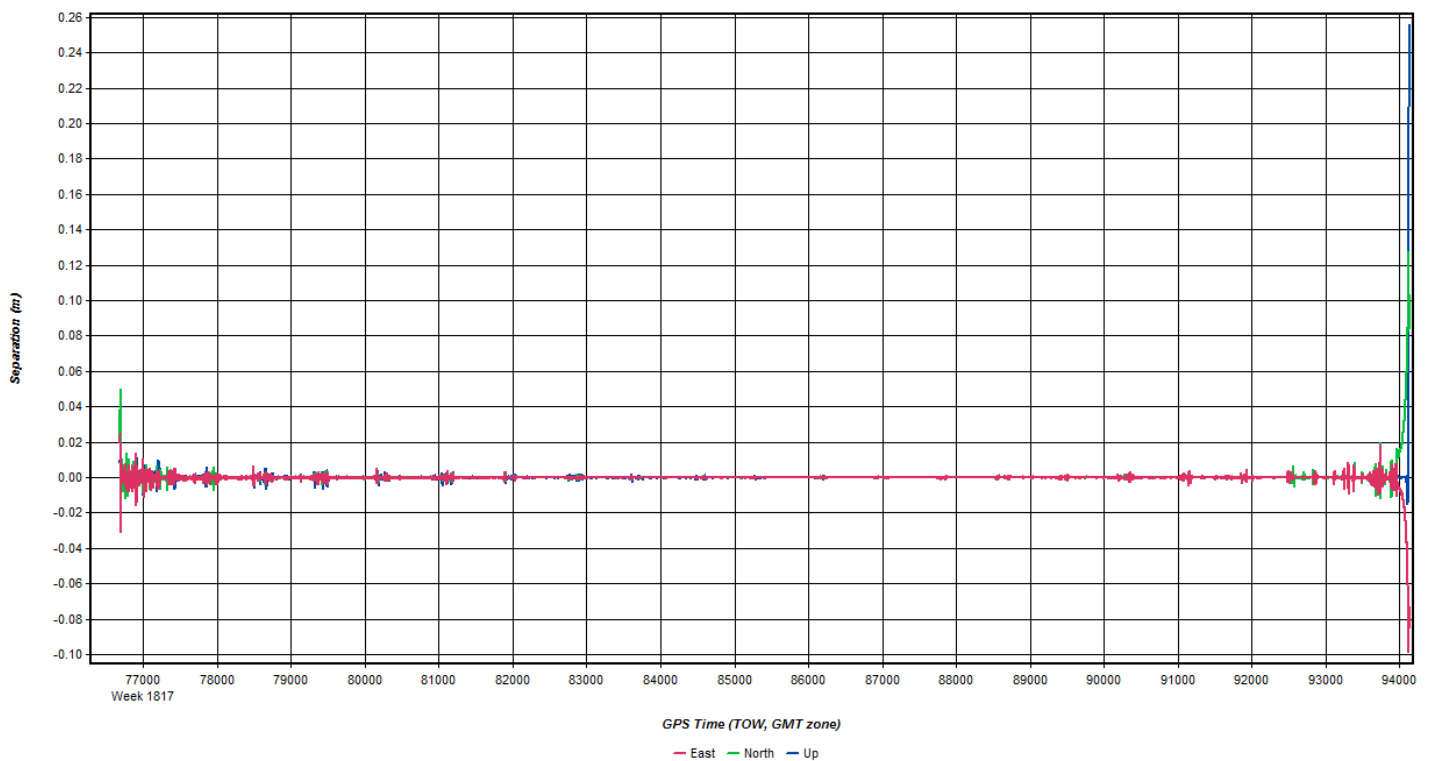
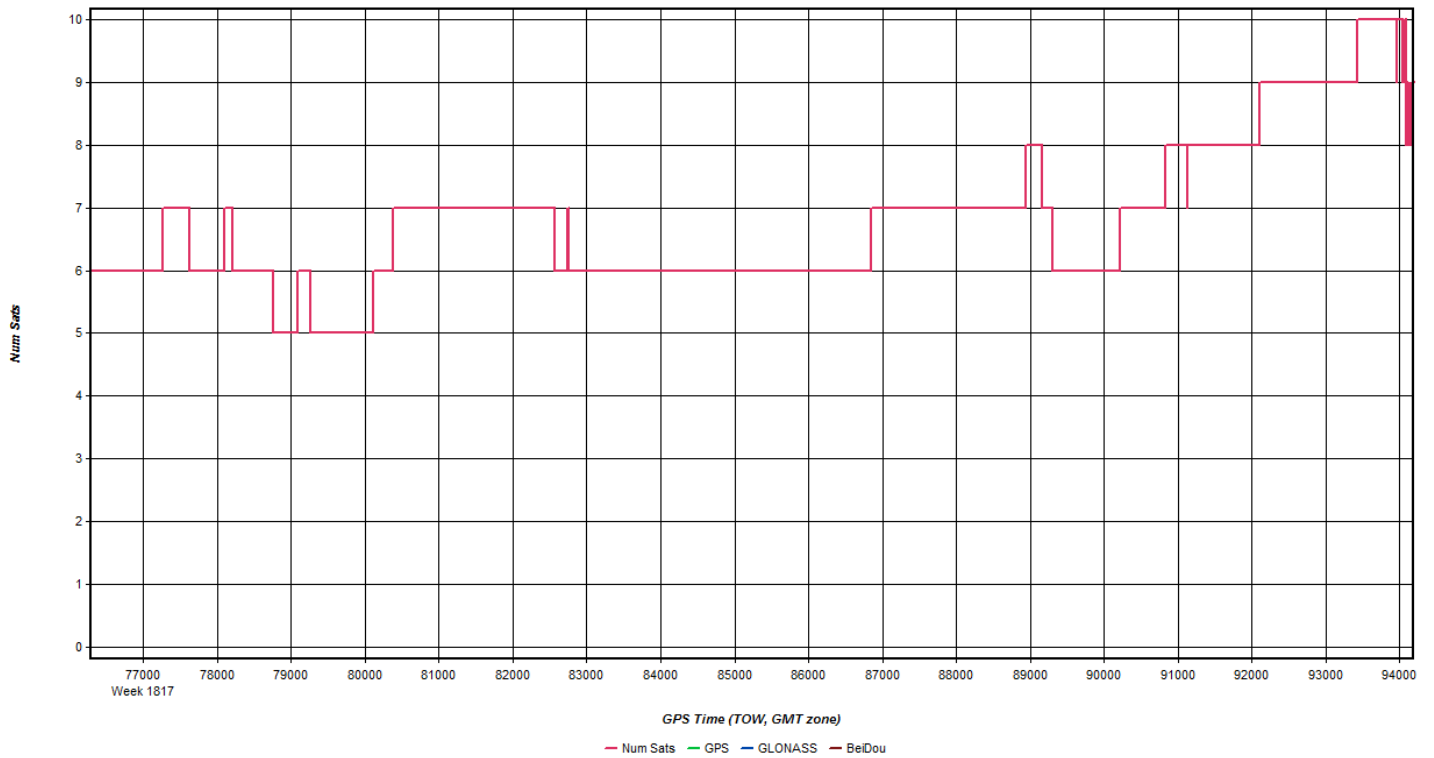
GPS/IMU Processing Statistics Flight Logs Base Station Logs

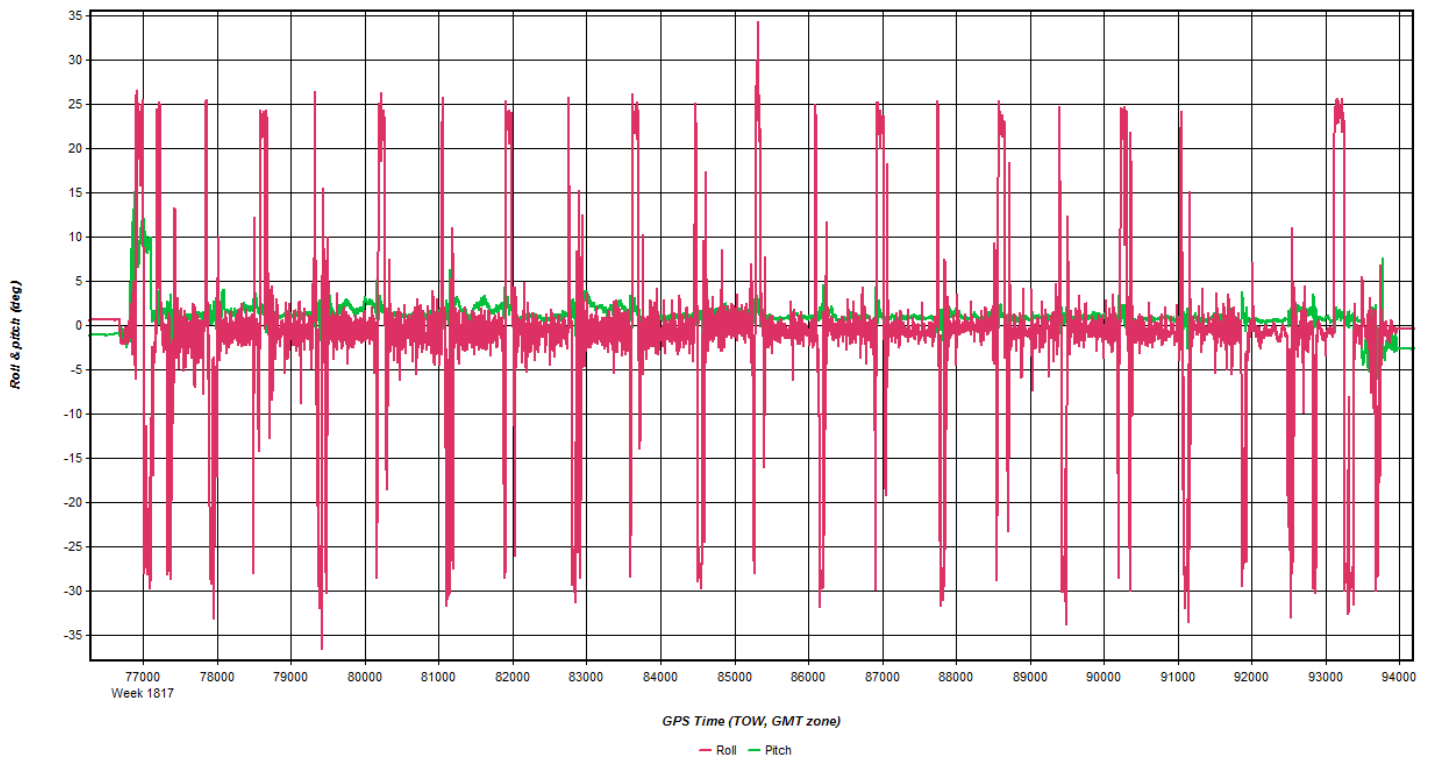
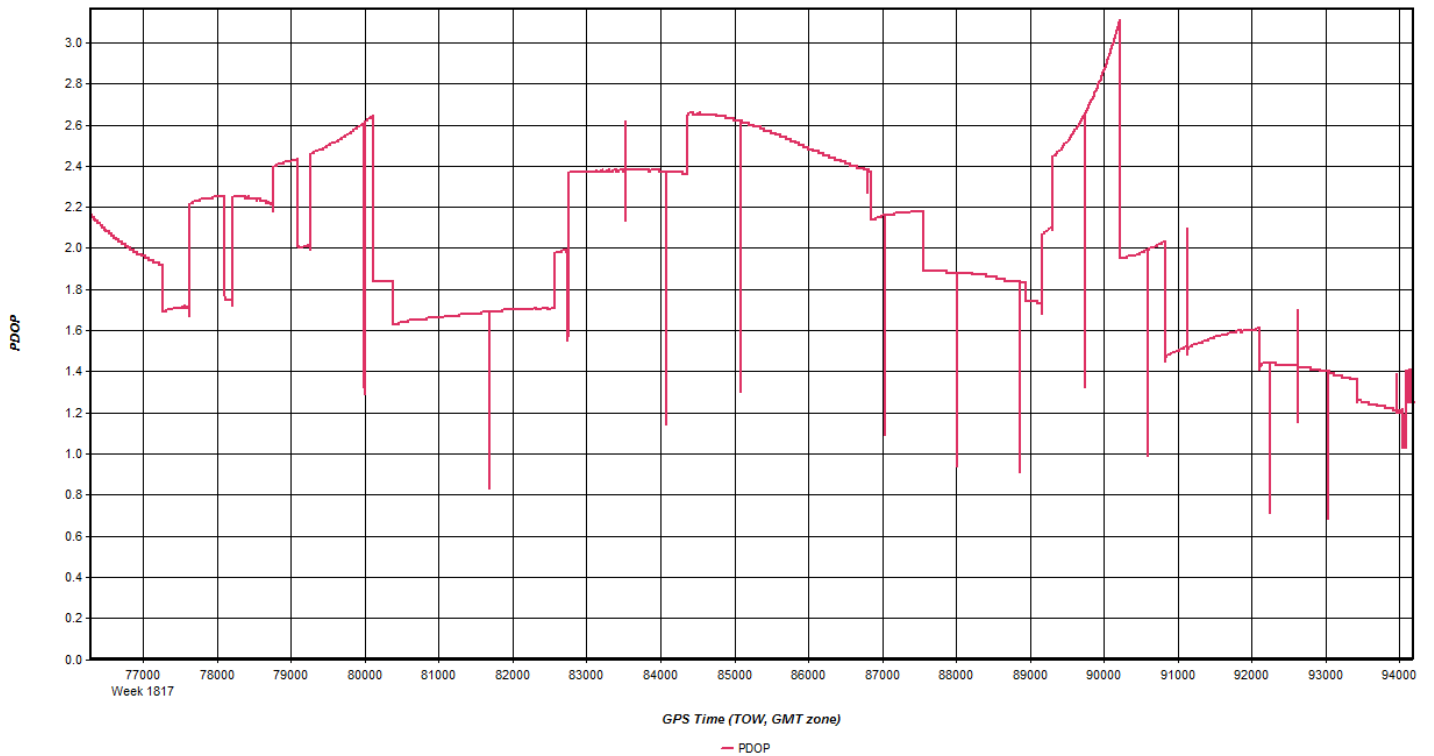
There were 28 lifts, total. Graph reports generated from processing software are found on the following pages.

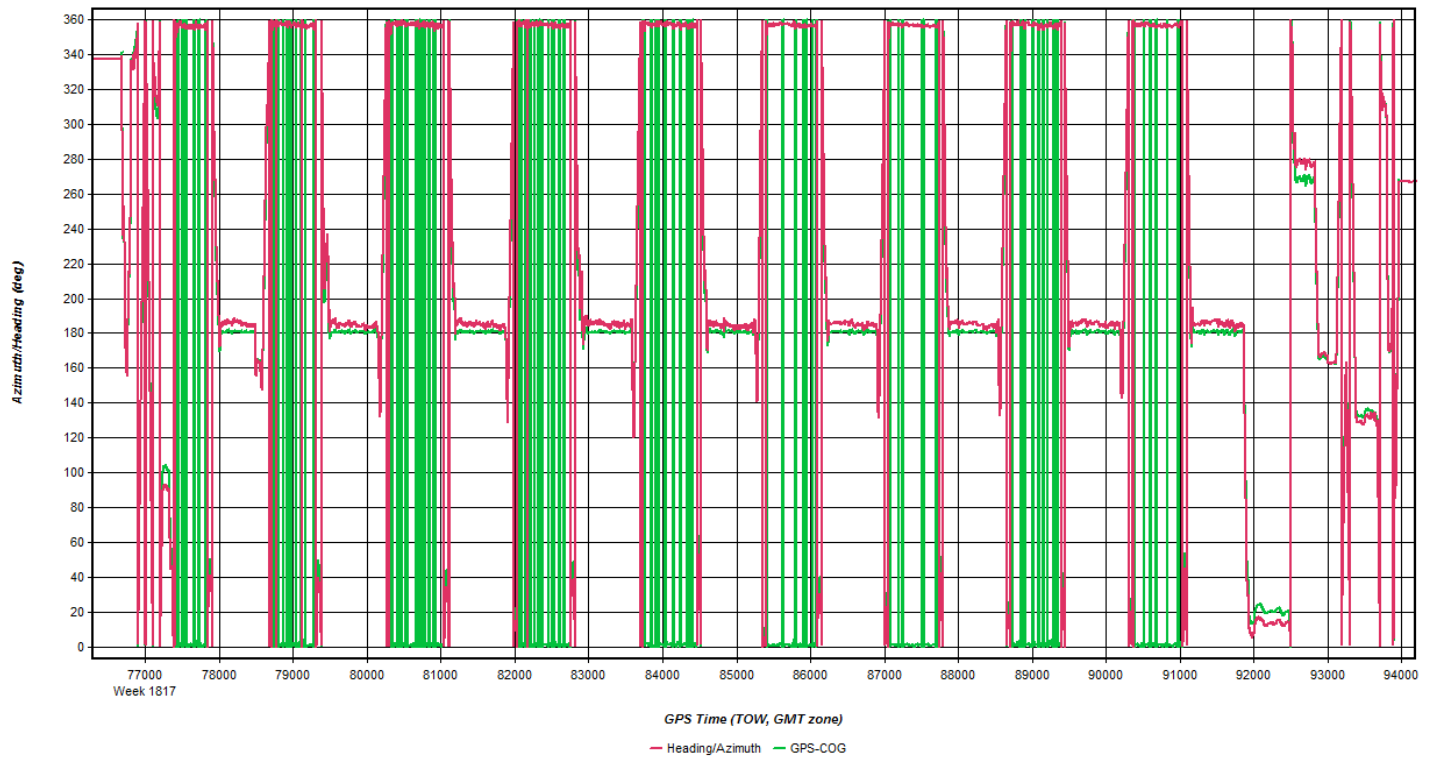
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Nov 2, 2014-A (7121)









Base Station Log

Coordinate/Antenna Settings

Master Remote

Base Station
 1: gw Name: gw ☐ Disabled
 File: D:\Raw\23902_NY_Clinton_Essex_Lake_Champlain\pbp_usgs_1

Coordinates
 Latitude: North 44 39 01.91729 Compute from PPP
 Longitude: West 73 27 30.70400 Enter Grid Values
 Ellipsoidal height: 20.665 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

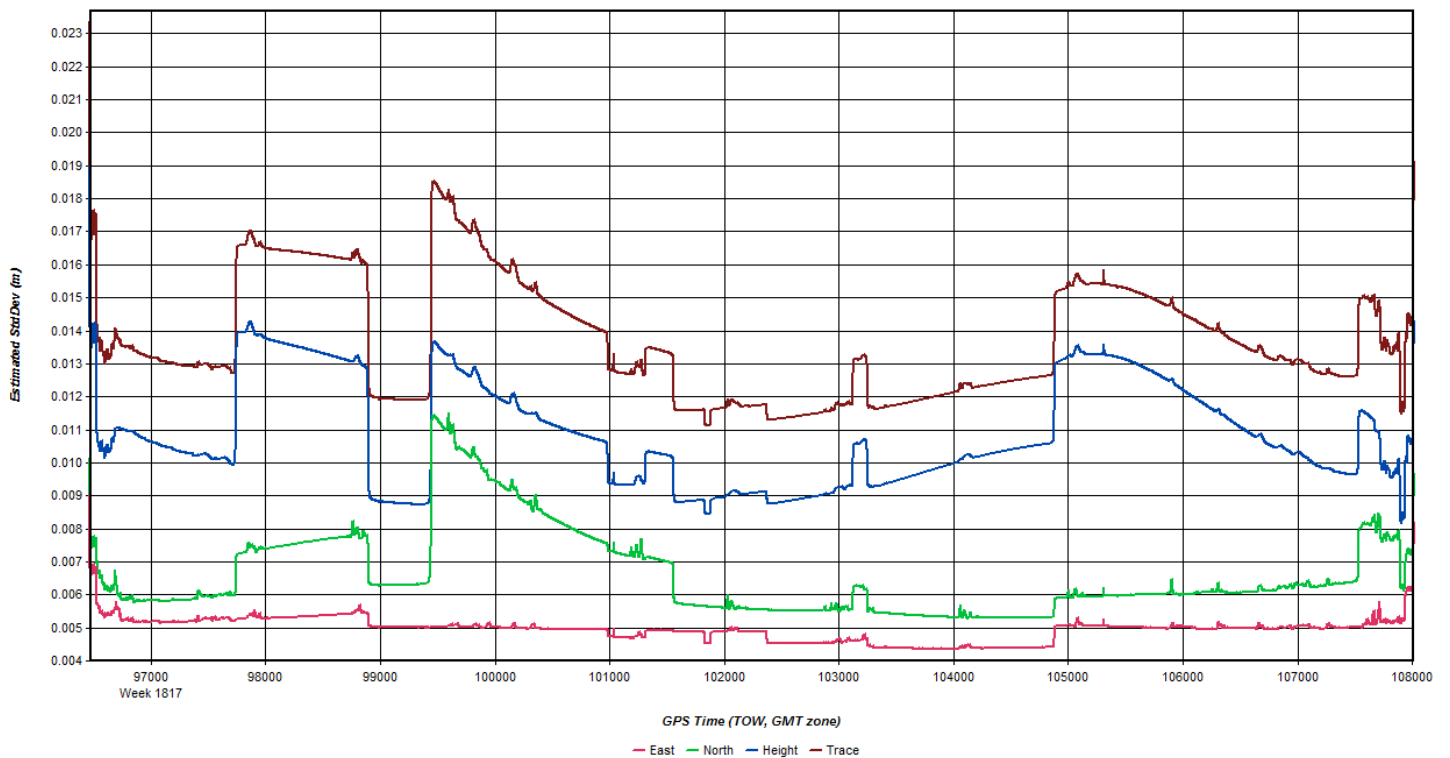
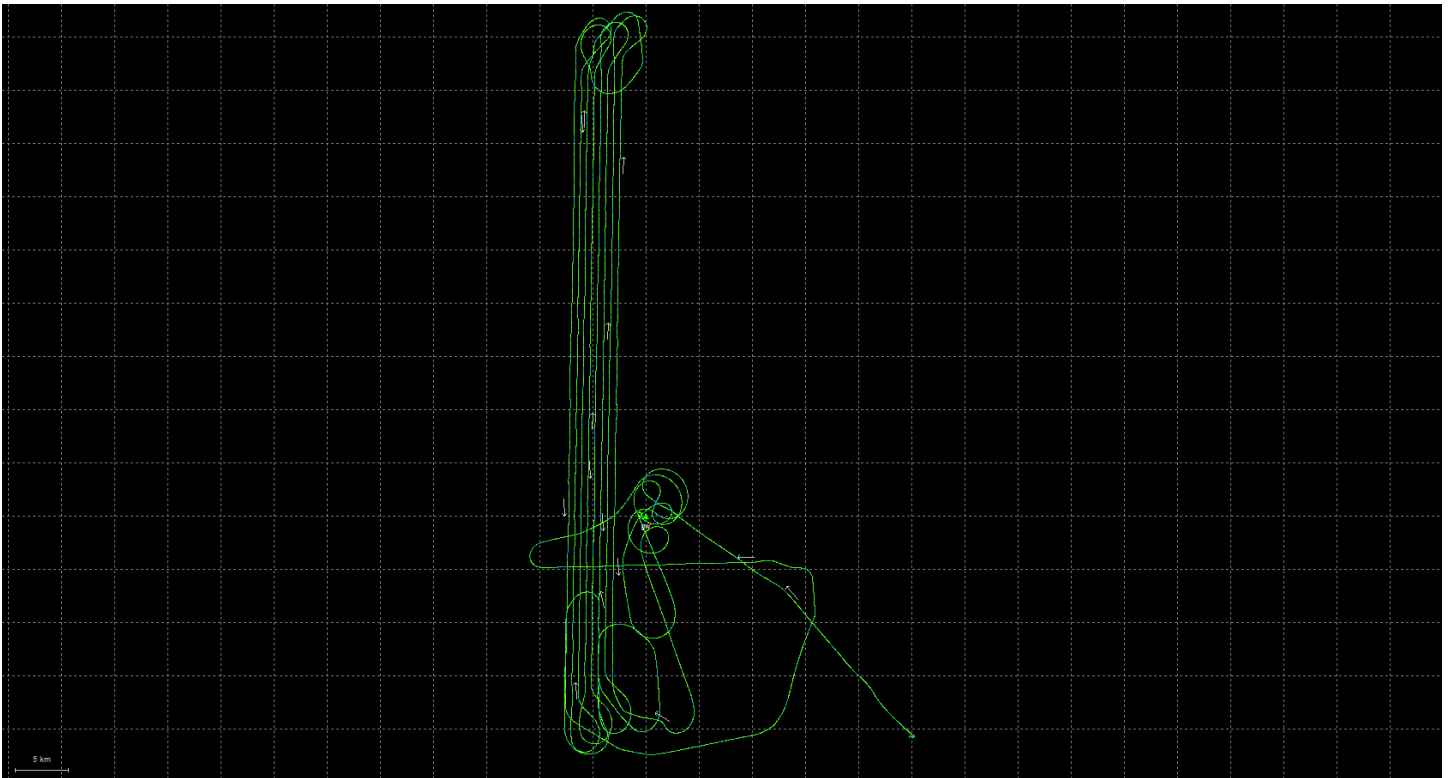
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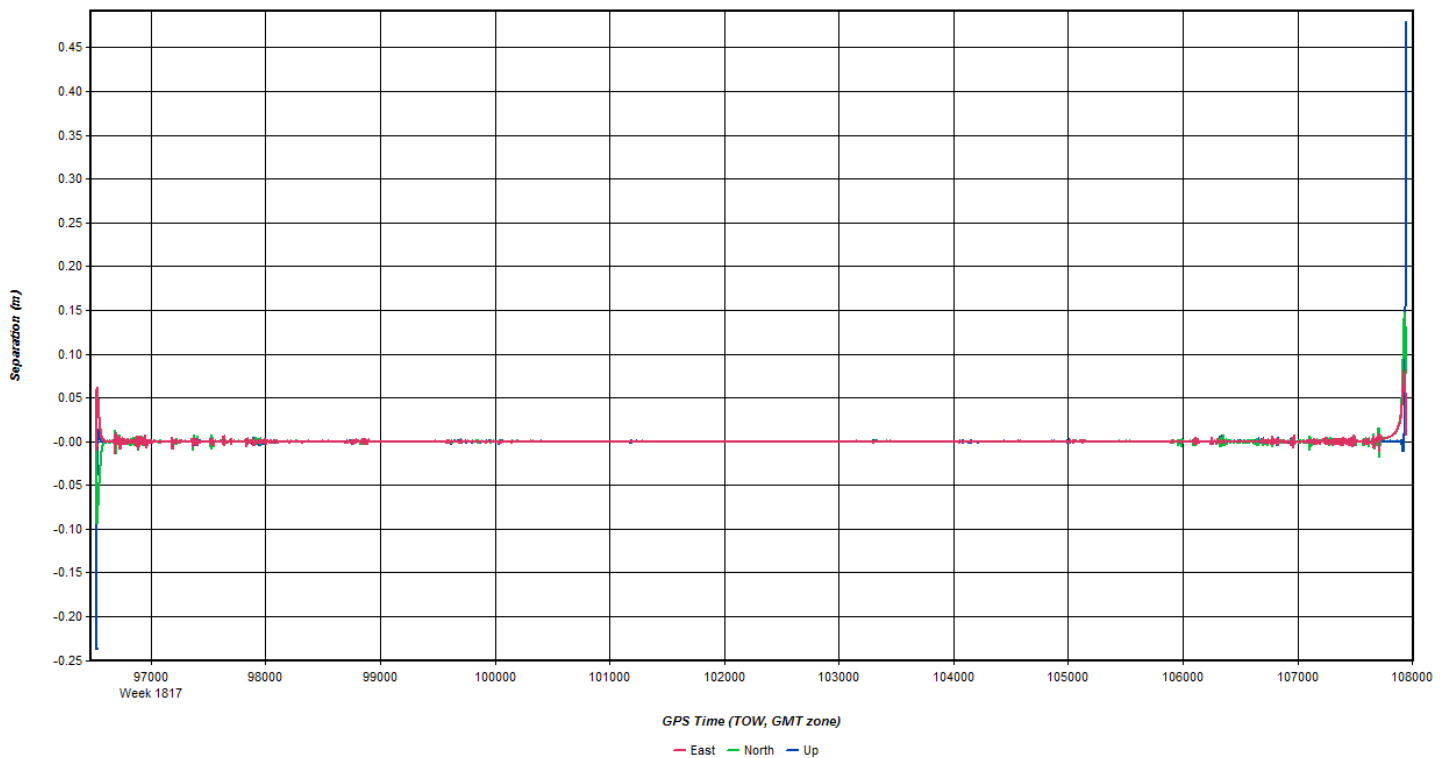
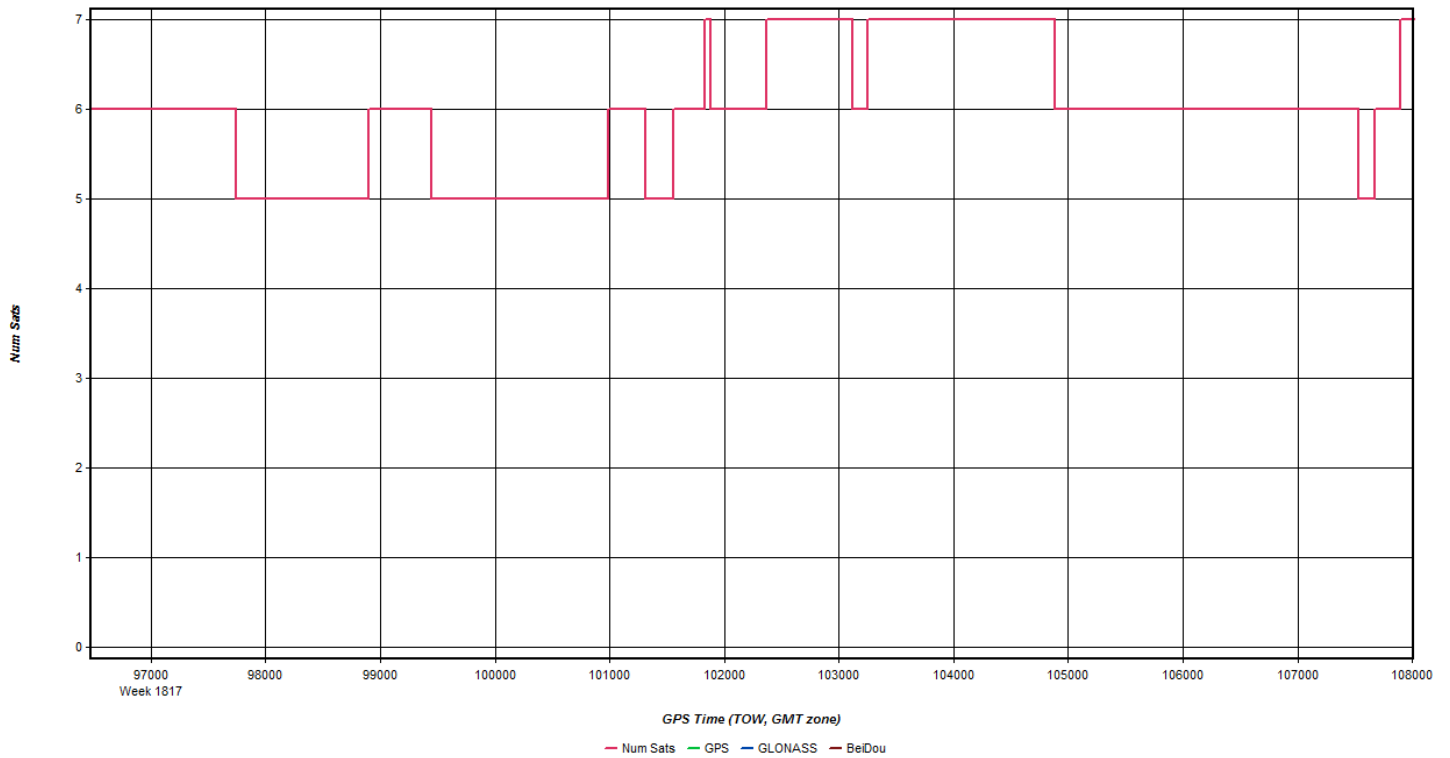
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 Applied height: 2.055 m

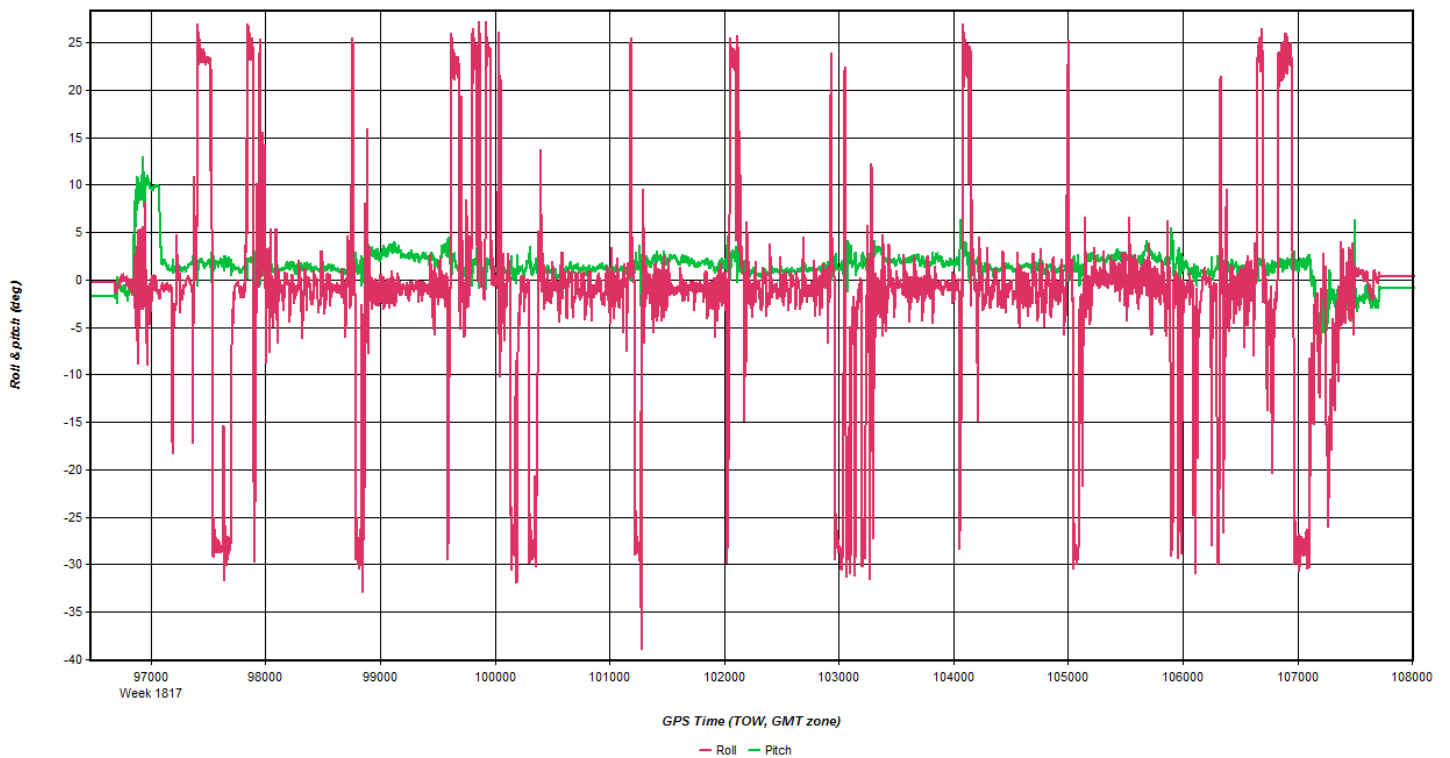
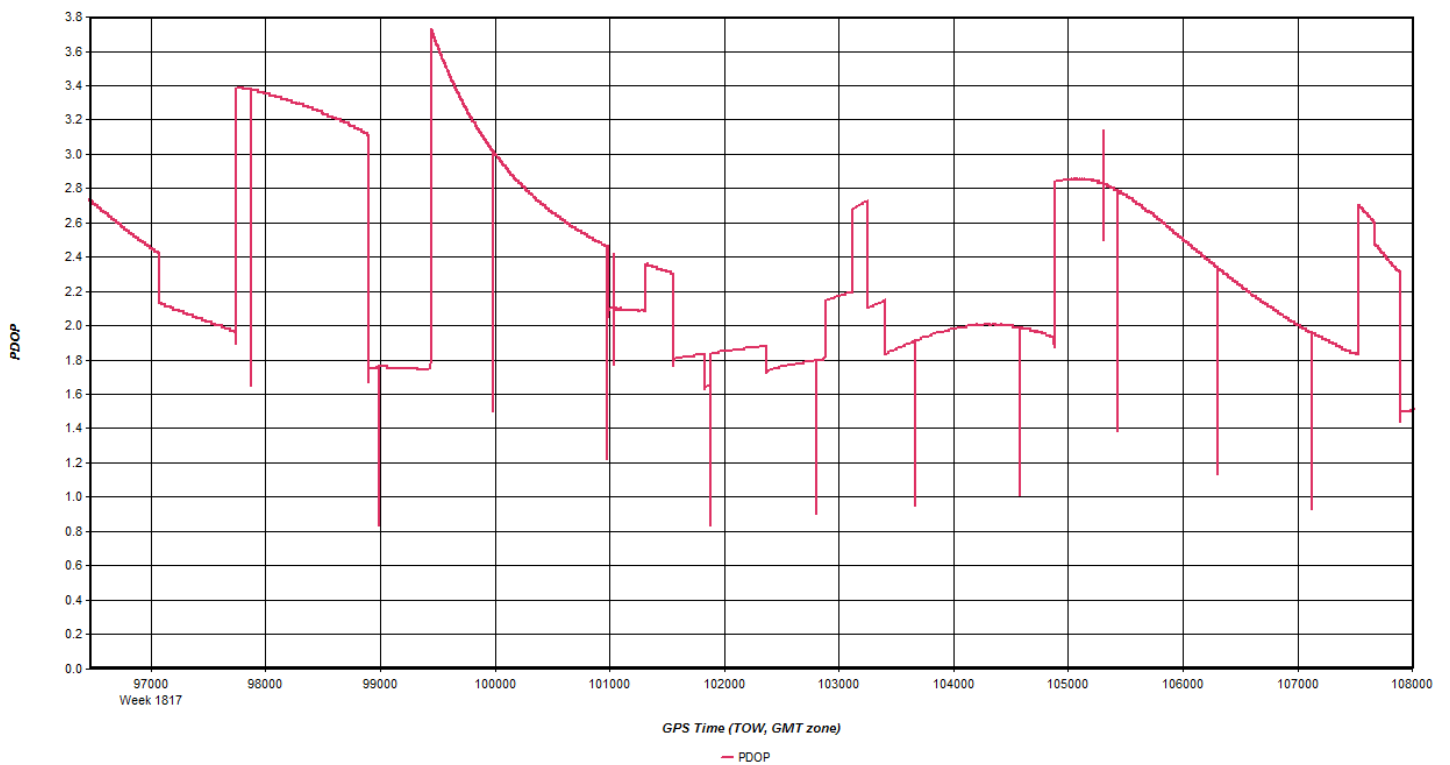
Measured to
☒ ARP
☐ L1 Phase Centre
 Compute From Slant

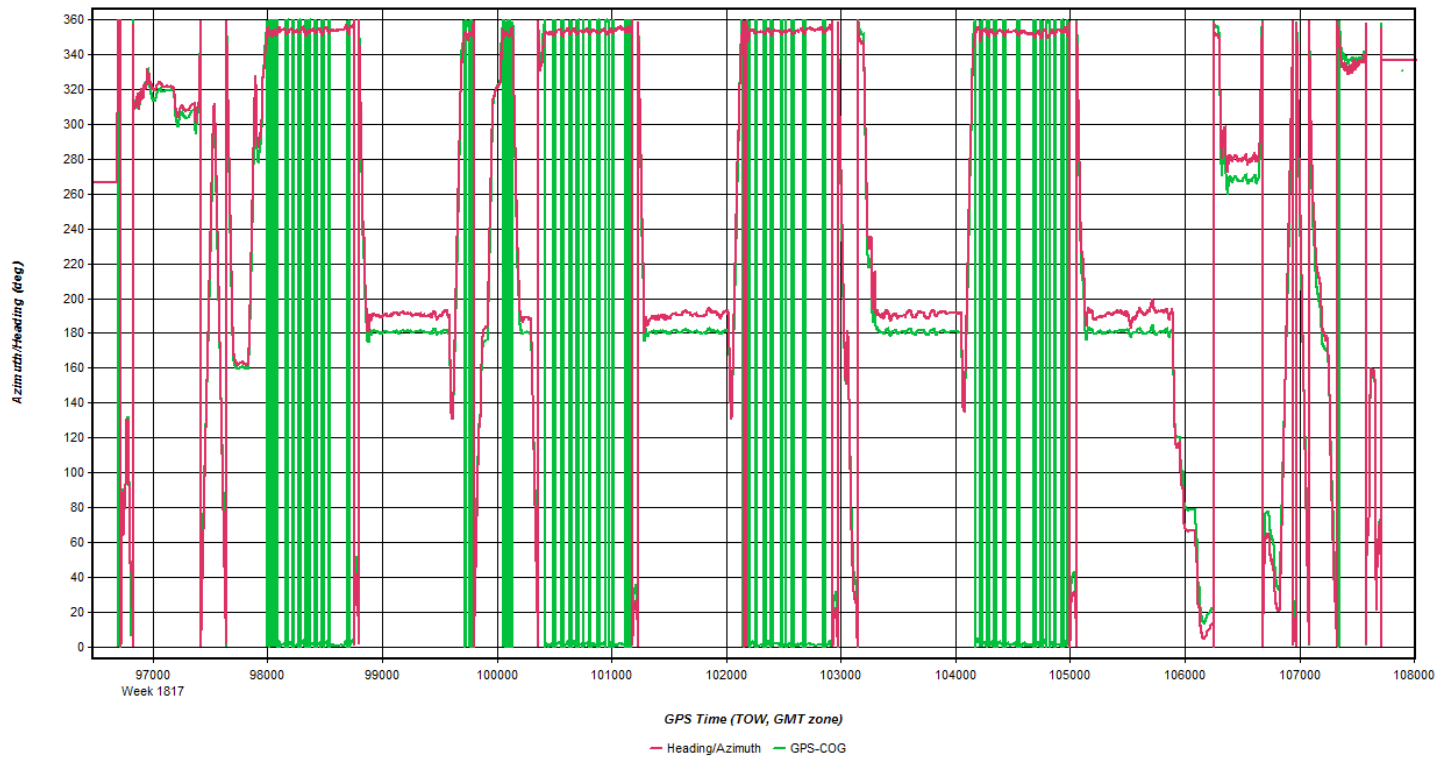
OK Cancel

Nov 3, 2014-A (7121)









Base Station Log

Coordinate/Antenna Settings

Master Remote

Base Station
 1: gw Name: gw ☐ Disabled
 File: D:\Raw\23902_NY_Clinton_Essex_Lake_Champlain\pbp_usgs_1

Coordinates
 Latitude: North 44 39 01.91729 Compute from PPP
 Longitude: West 73 27 30.70400 Enter Grid Values
 Ellipsoidal height: 20.665 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

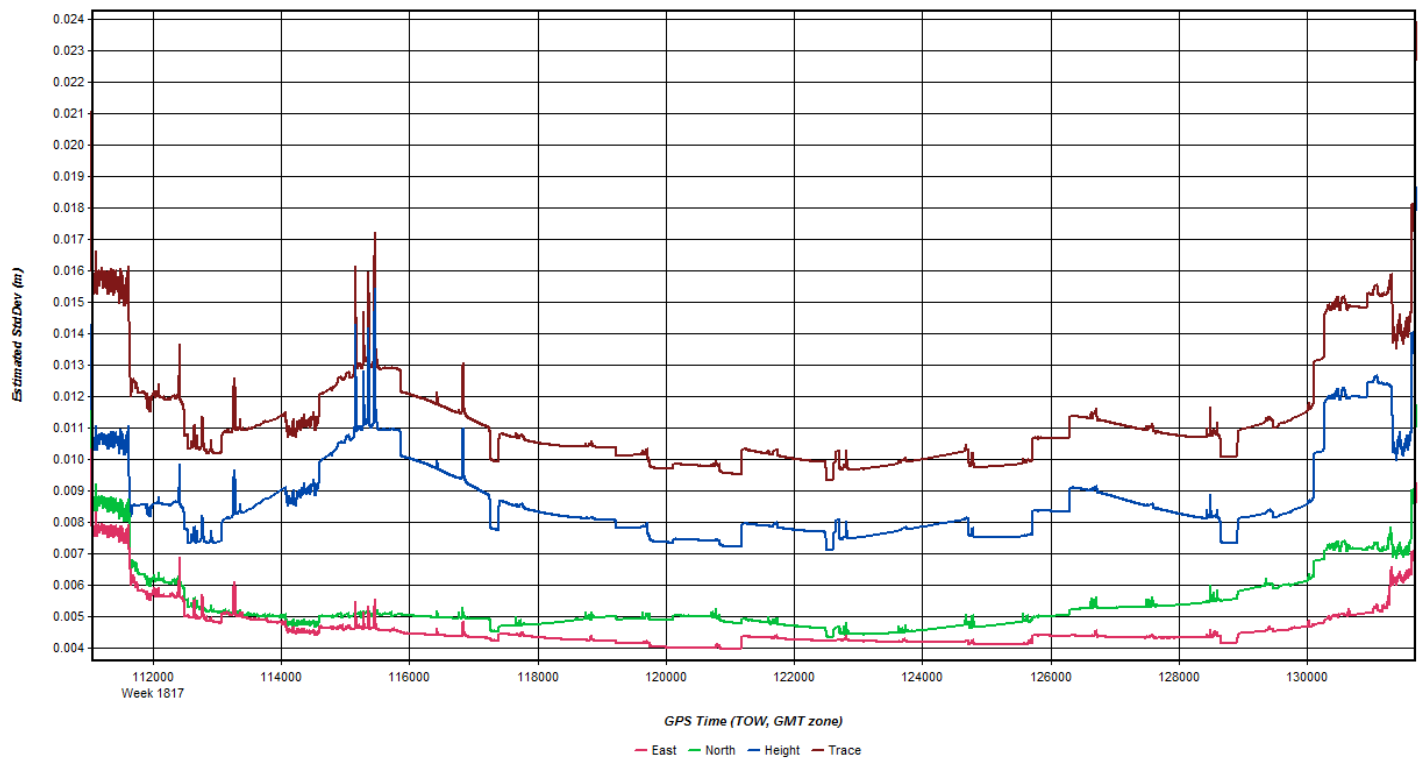
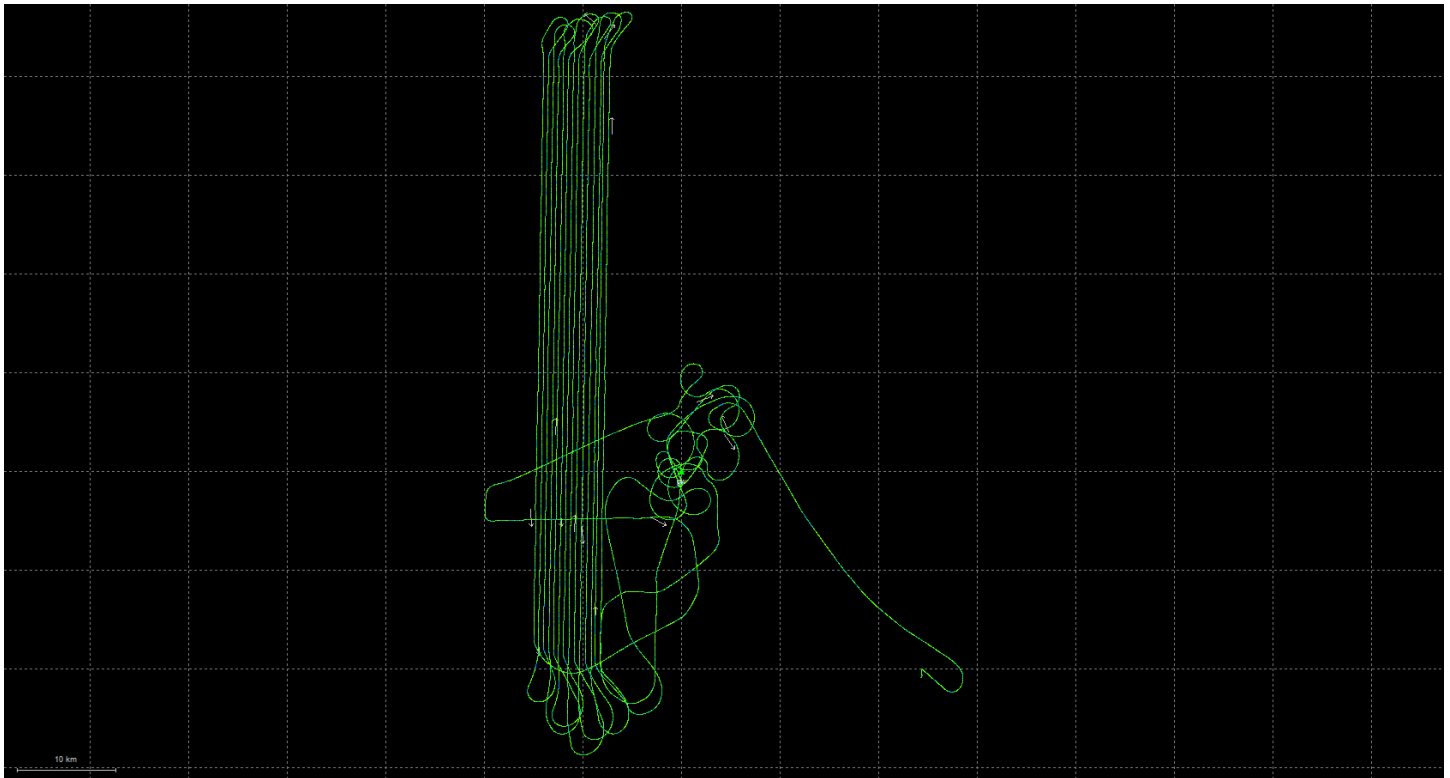
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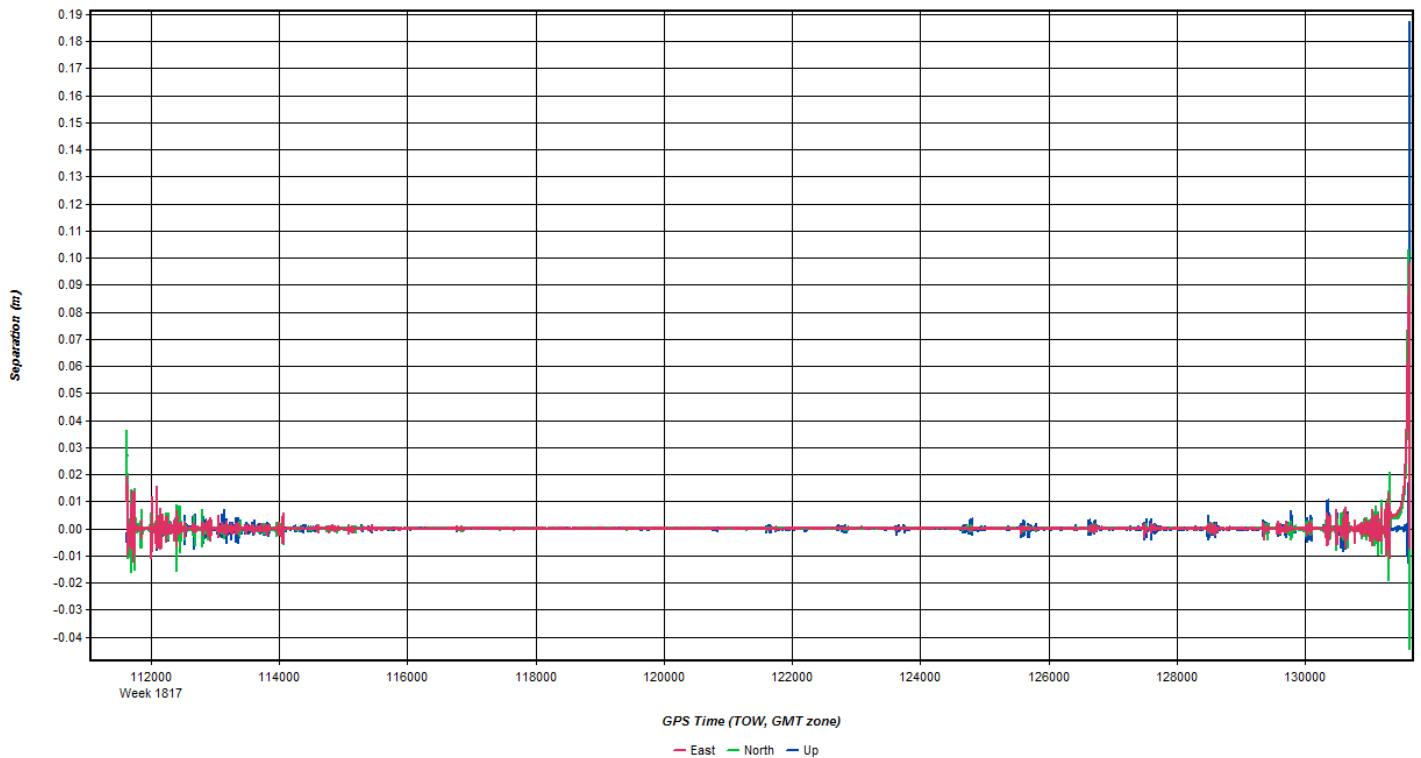
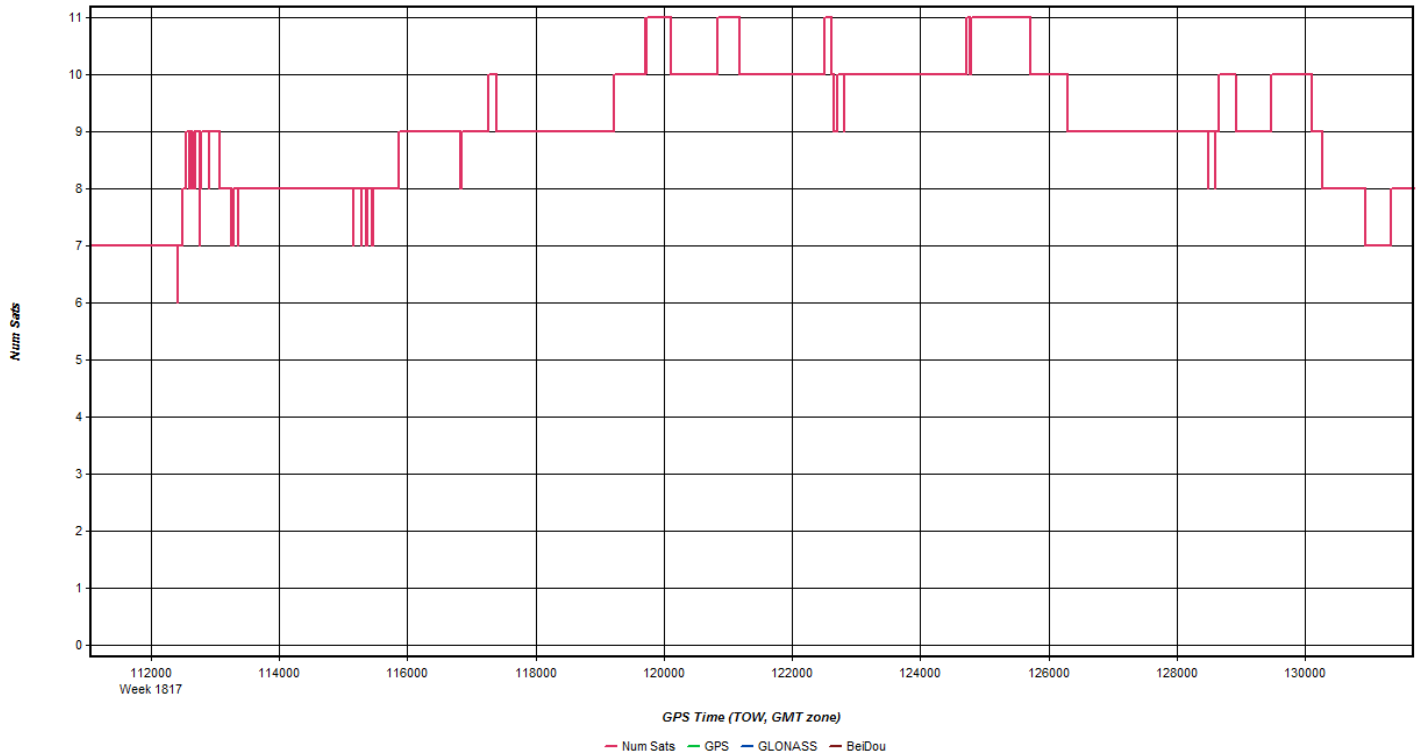
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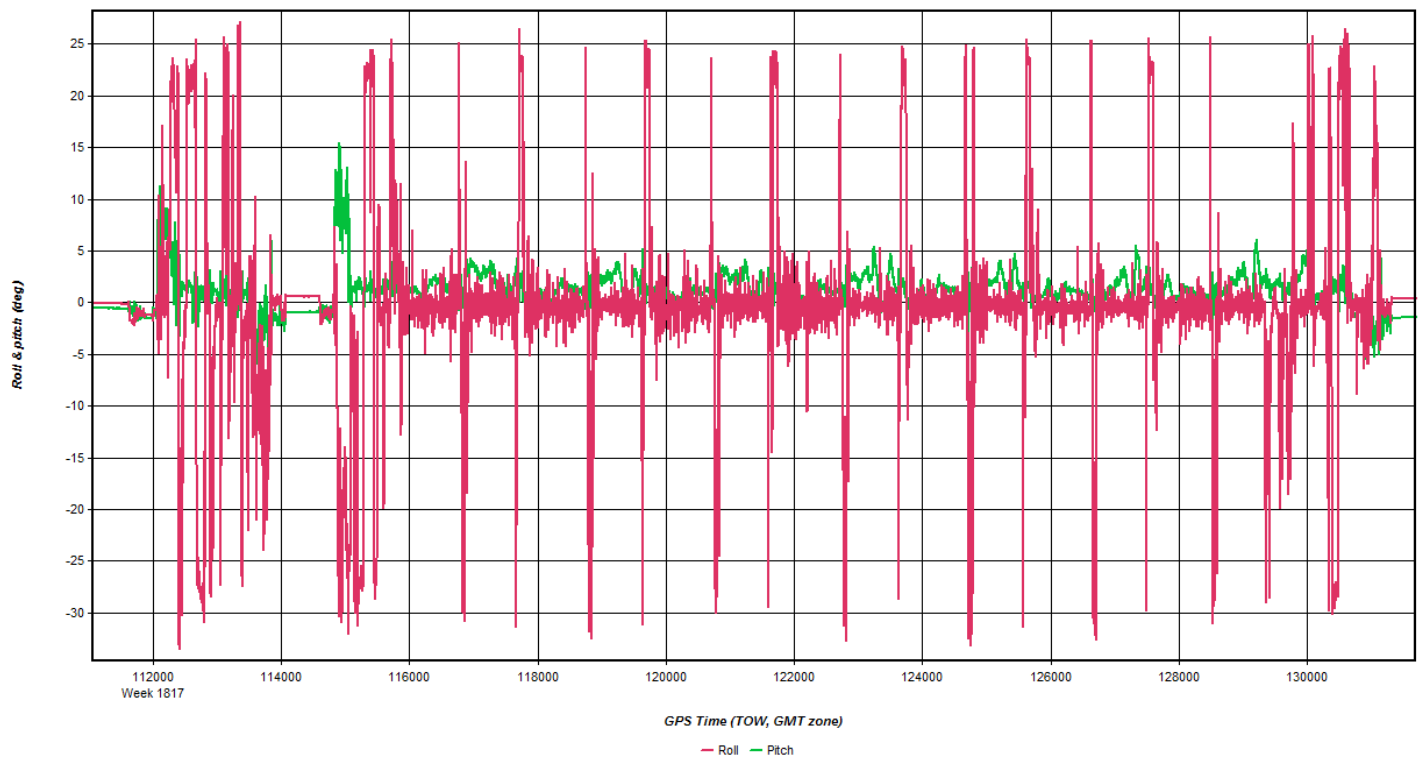
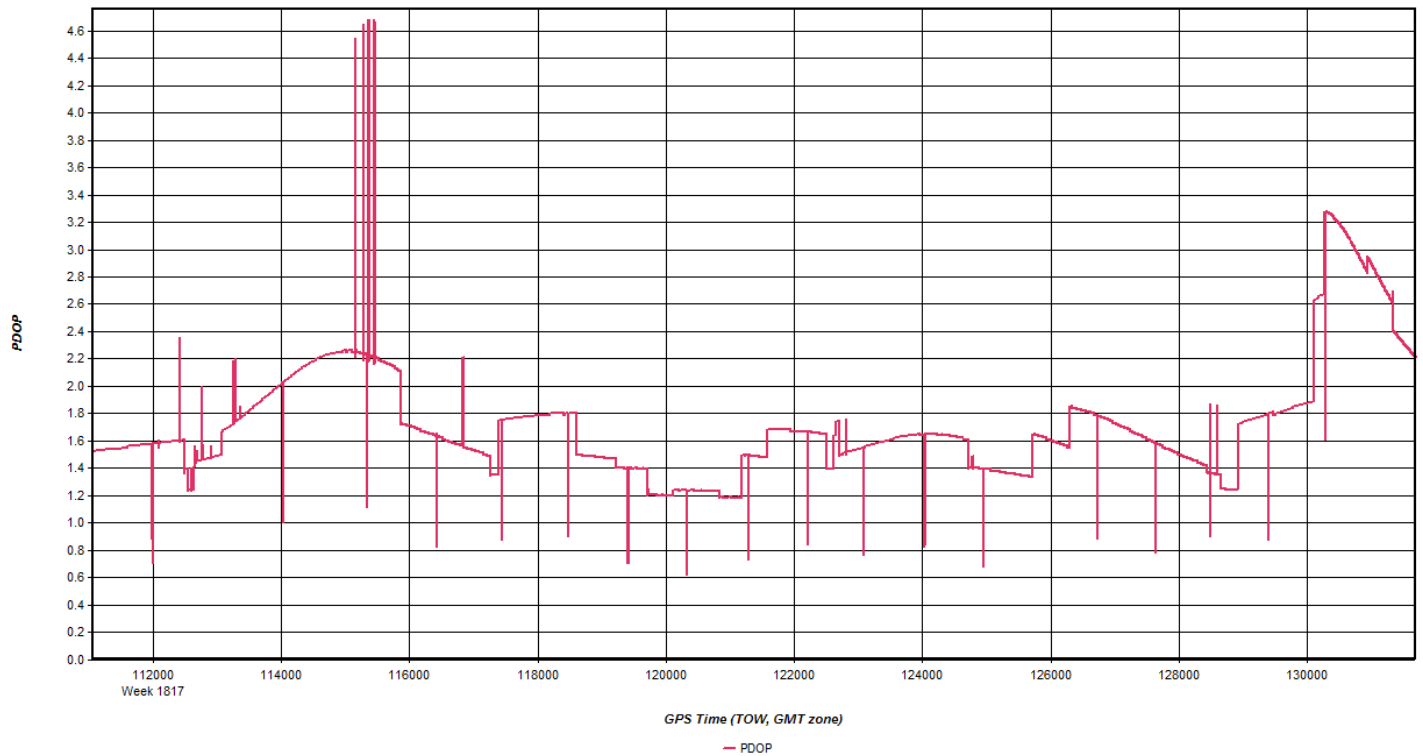
Measured to
☒ ARP
☐ L1 Phase Centre
 Compute From Slant

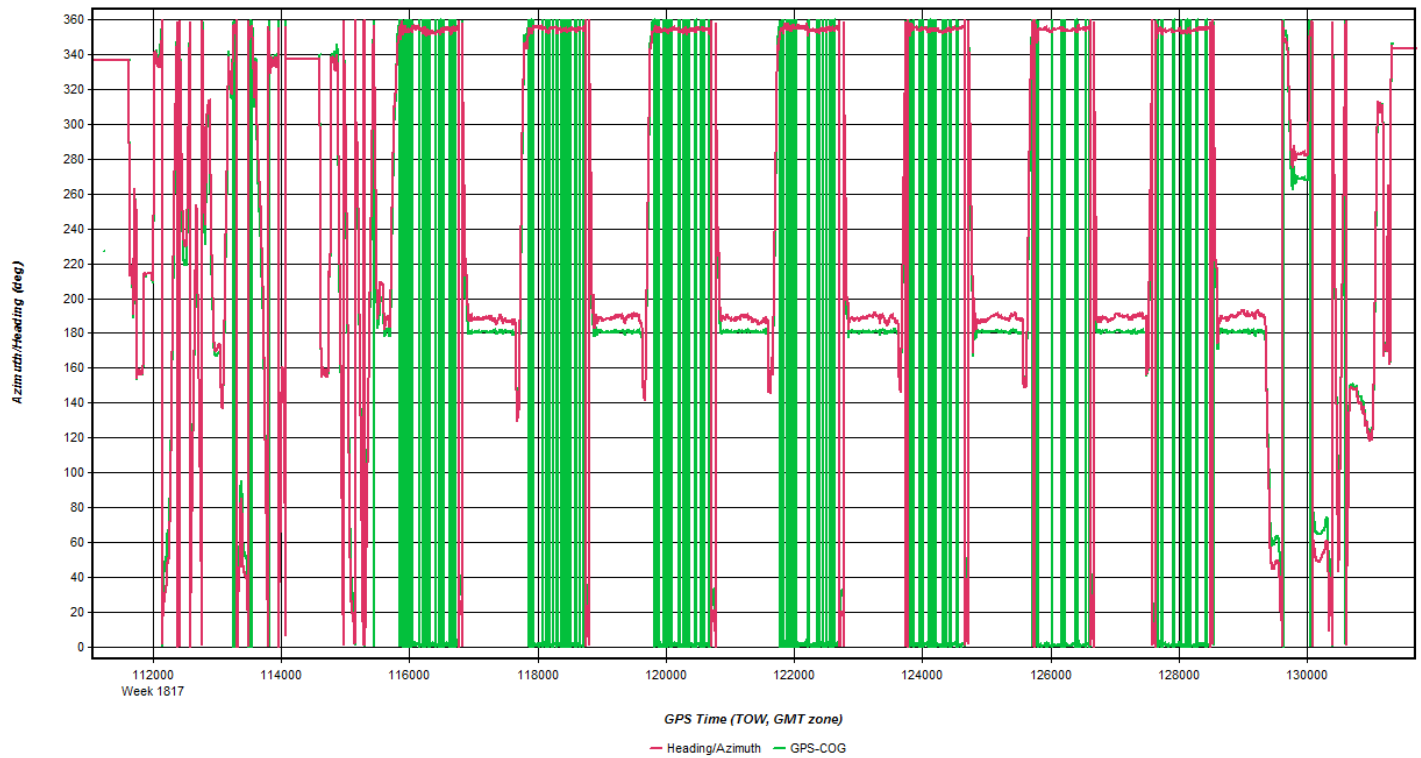
OK Cancel

Nov 3, 2014-B (7121)









Base Station Log

Coordinate/Antenna Settings

Master Remote

Base Station
 1: gw Name: gw ☐ Disabled
 File: D:\Raw\23902_NY_Clinton_Essex_Lake_Champlain\pbp_usgs_1

Coordinates
 Latitude: North 44 39 01.91729 Compute from PPP
 Longitude: West 73 27 30.70400 Enter Grid Values
 Ellipsoidal height: 20.665 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

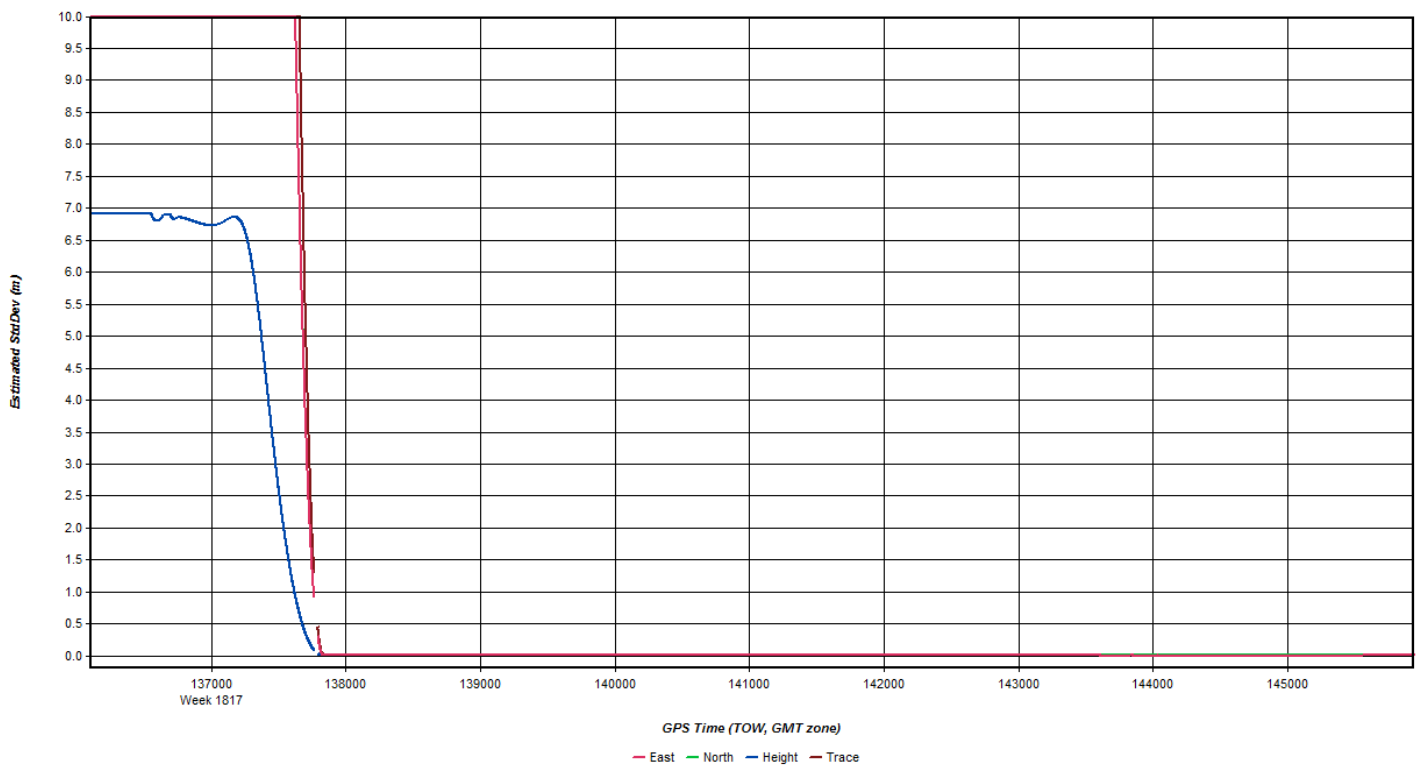
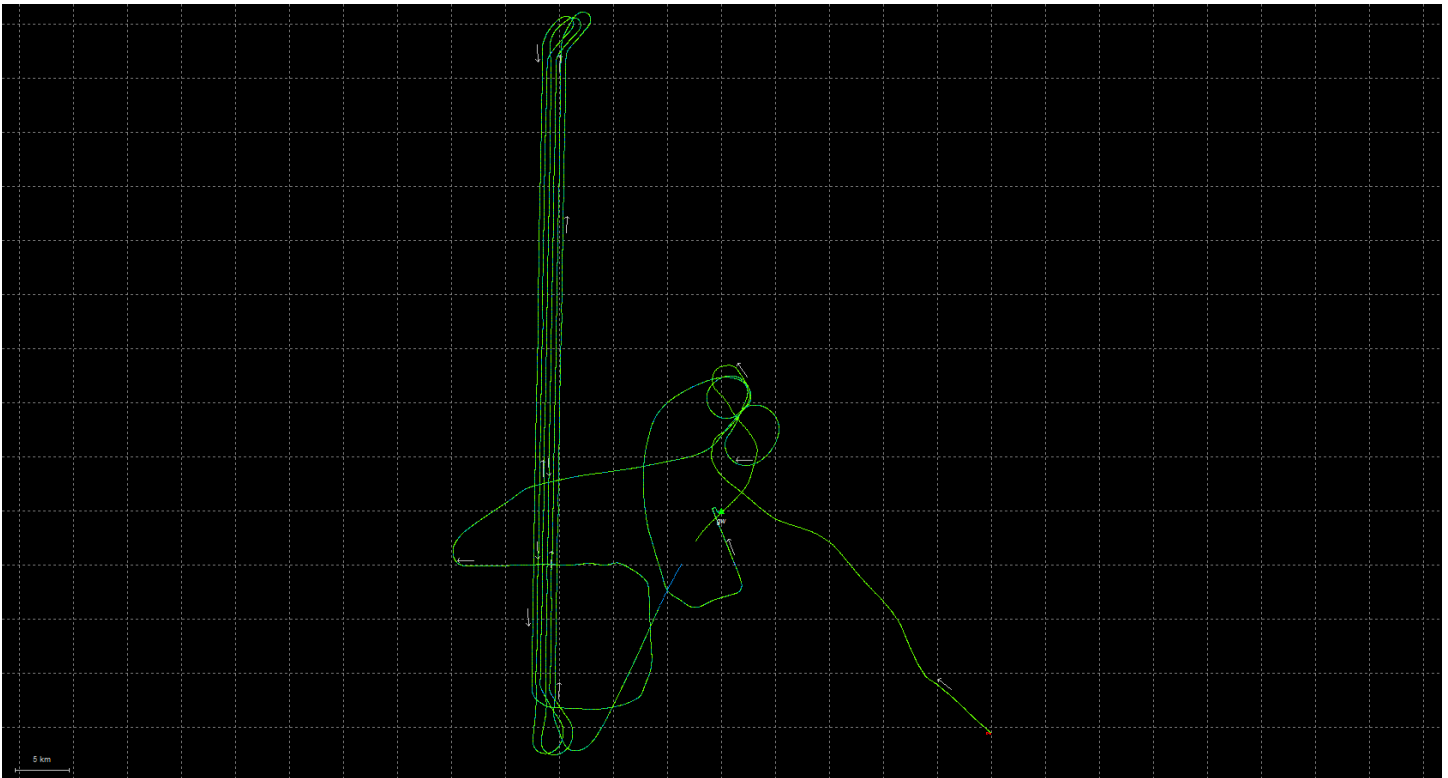
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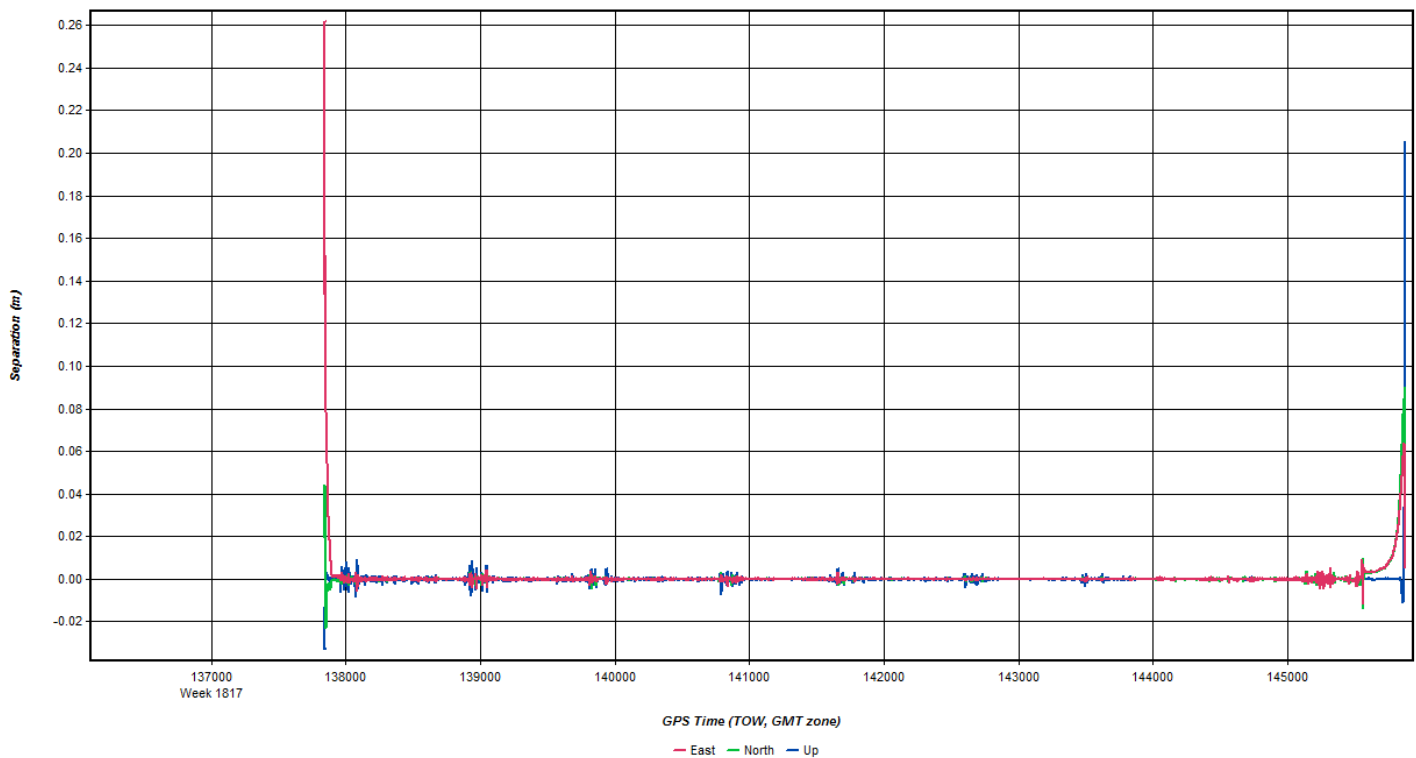
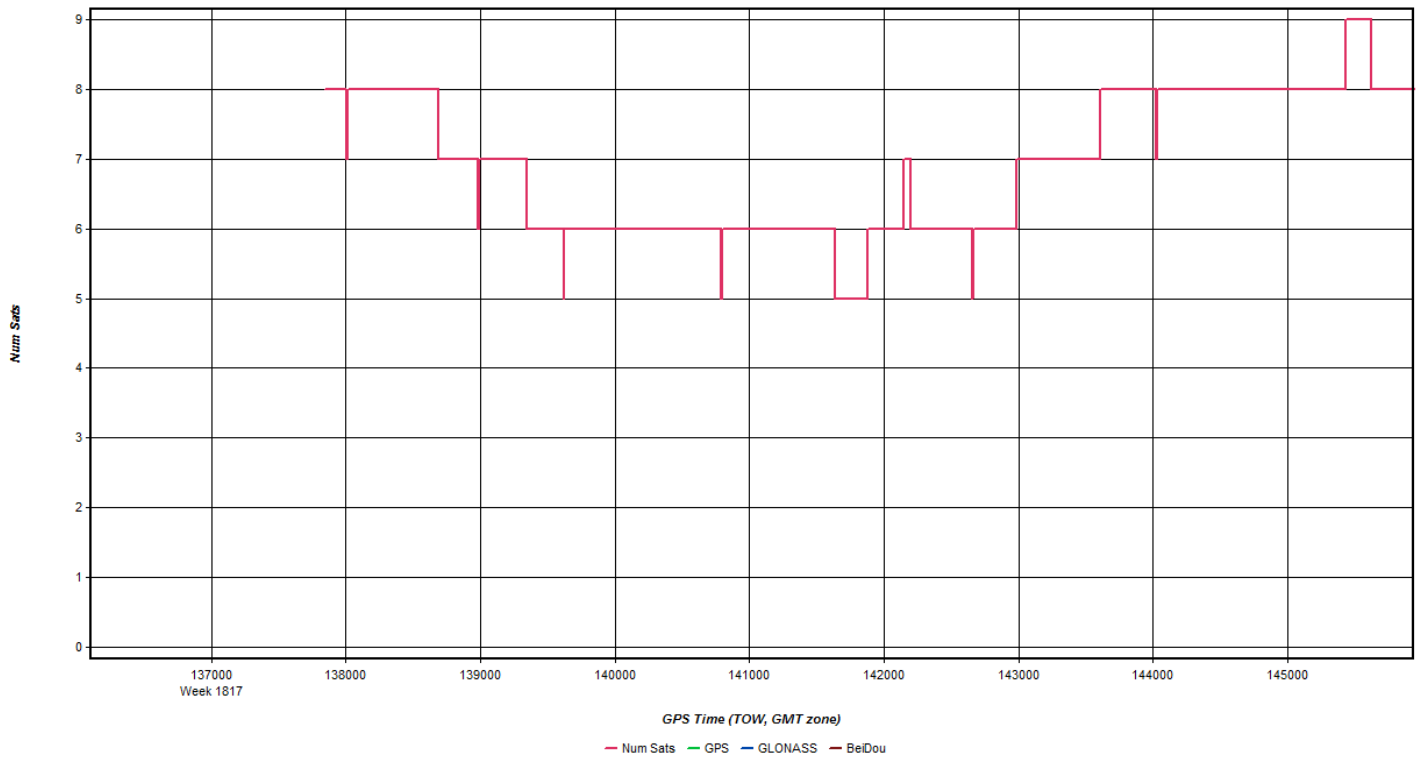
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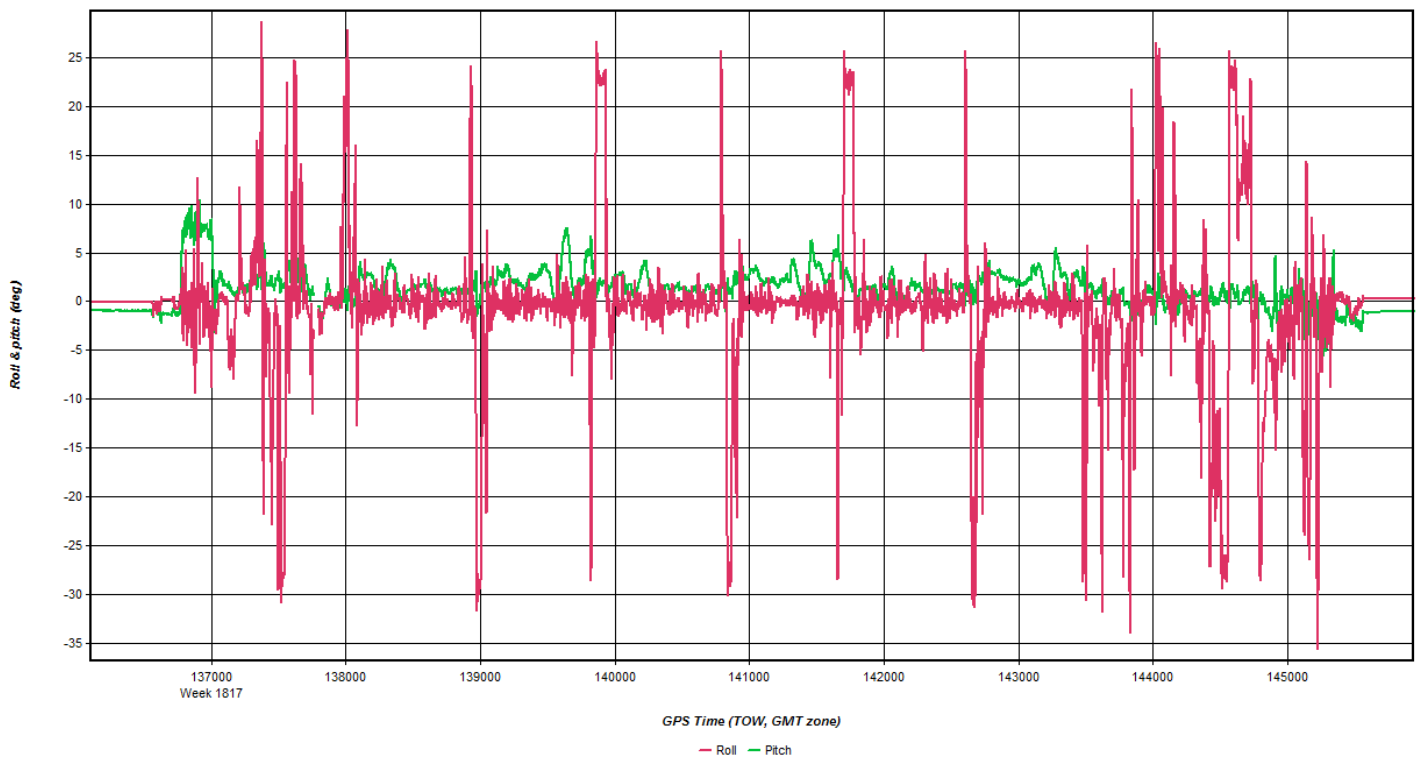
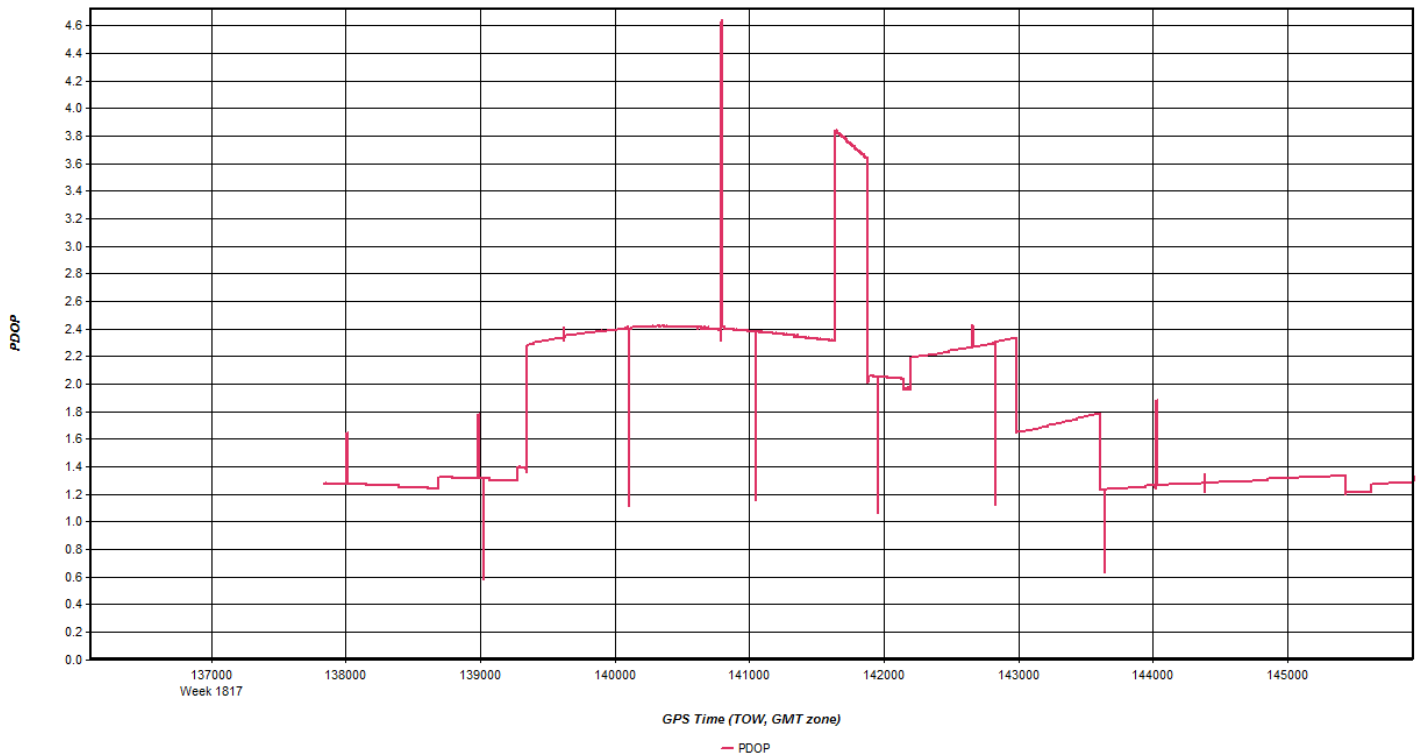
Measured to
☒ ARP
☐ L1 Phase Centre
 Compute From Slant

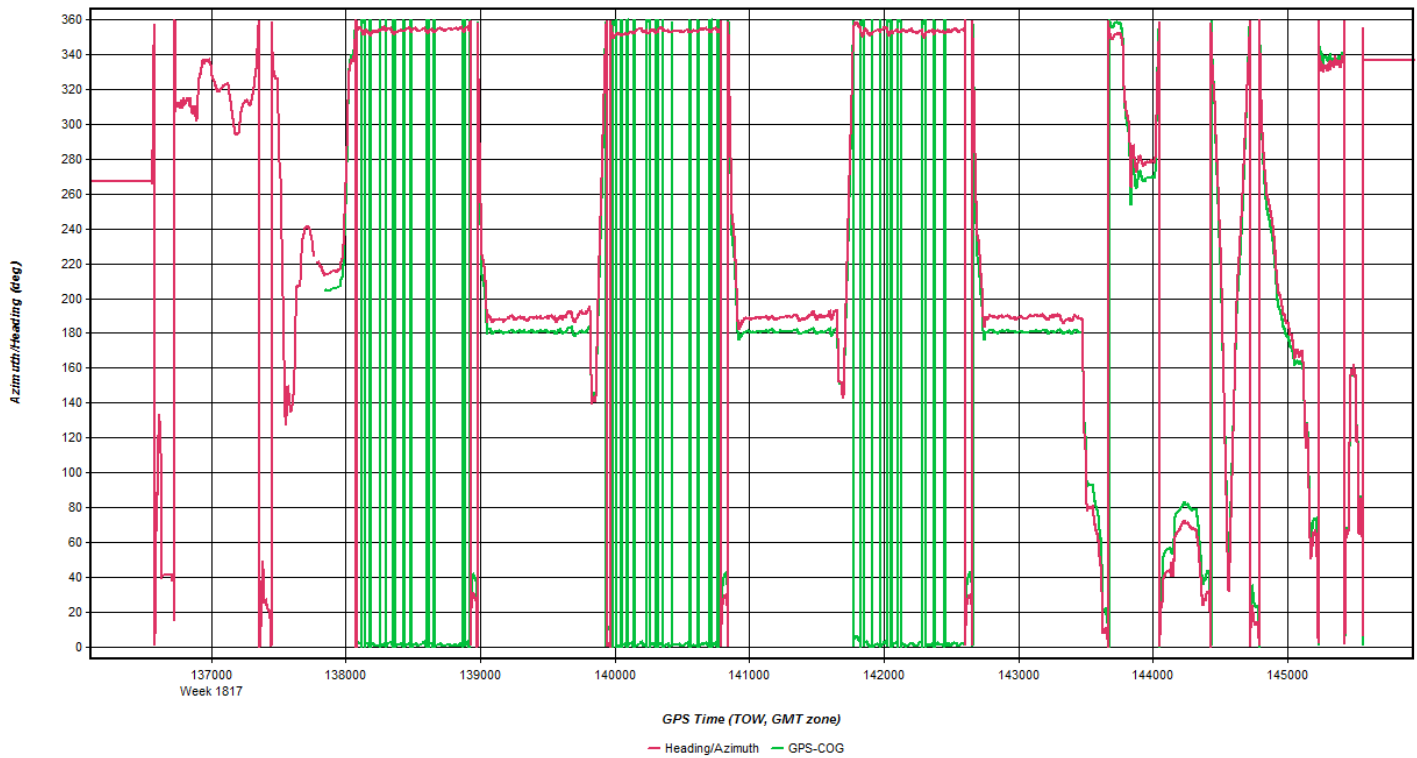
OK Cancel

Nov 3, 2014-C (7121)









Base Station Log

Coordinate/Antenna Settings

Master Remote

Base Station
 1: gw Name: gw ☐ Disabled
 File: D:\Raw\23902_NY_Clinton_Essex_Lake_Champlain\pbp_usgs_1

Coordinates
 Latitude: North 44 39 01.91729 Compute from PPP
 Longitude: West 73 27 30.70400 Enter Grid Values
 Ellipsoidal height: 20.665 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

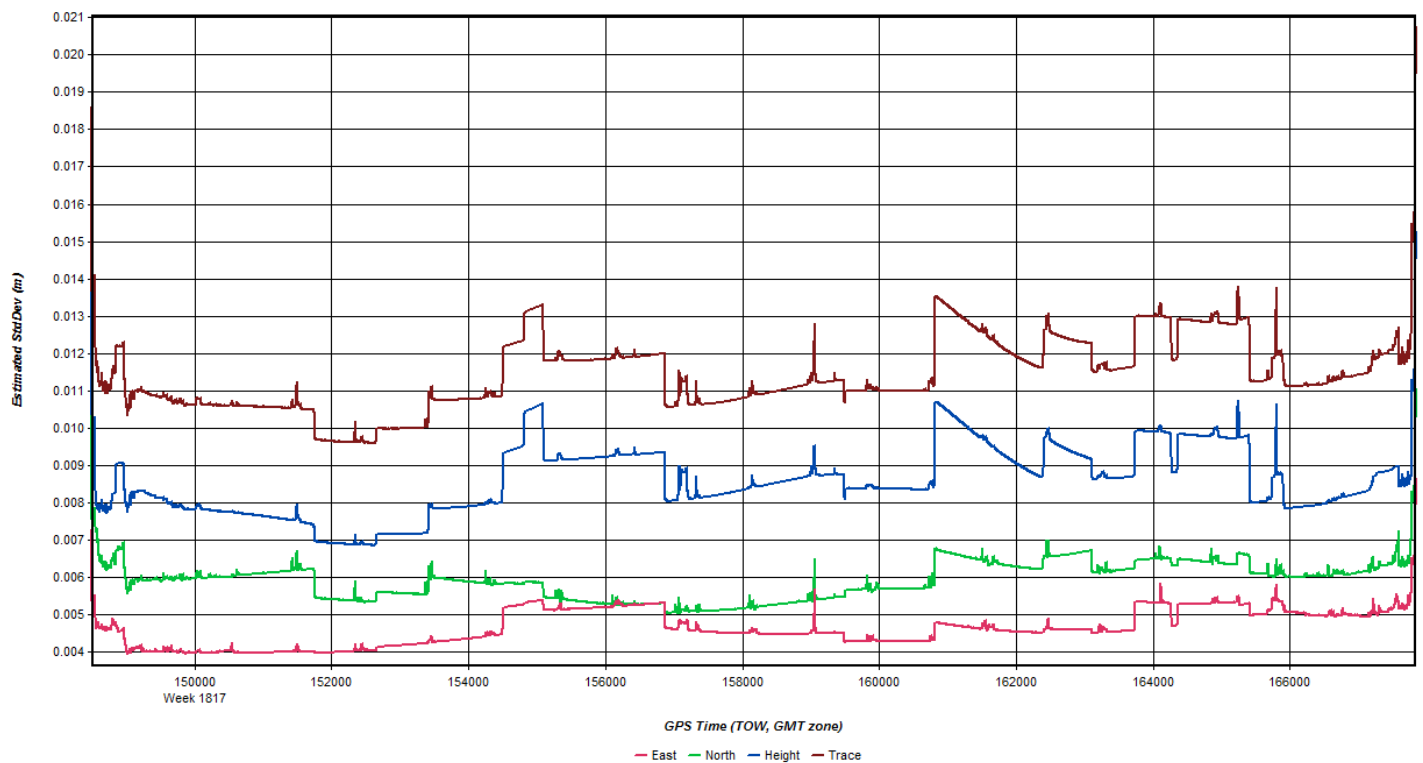
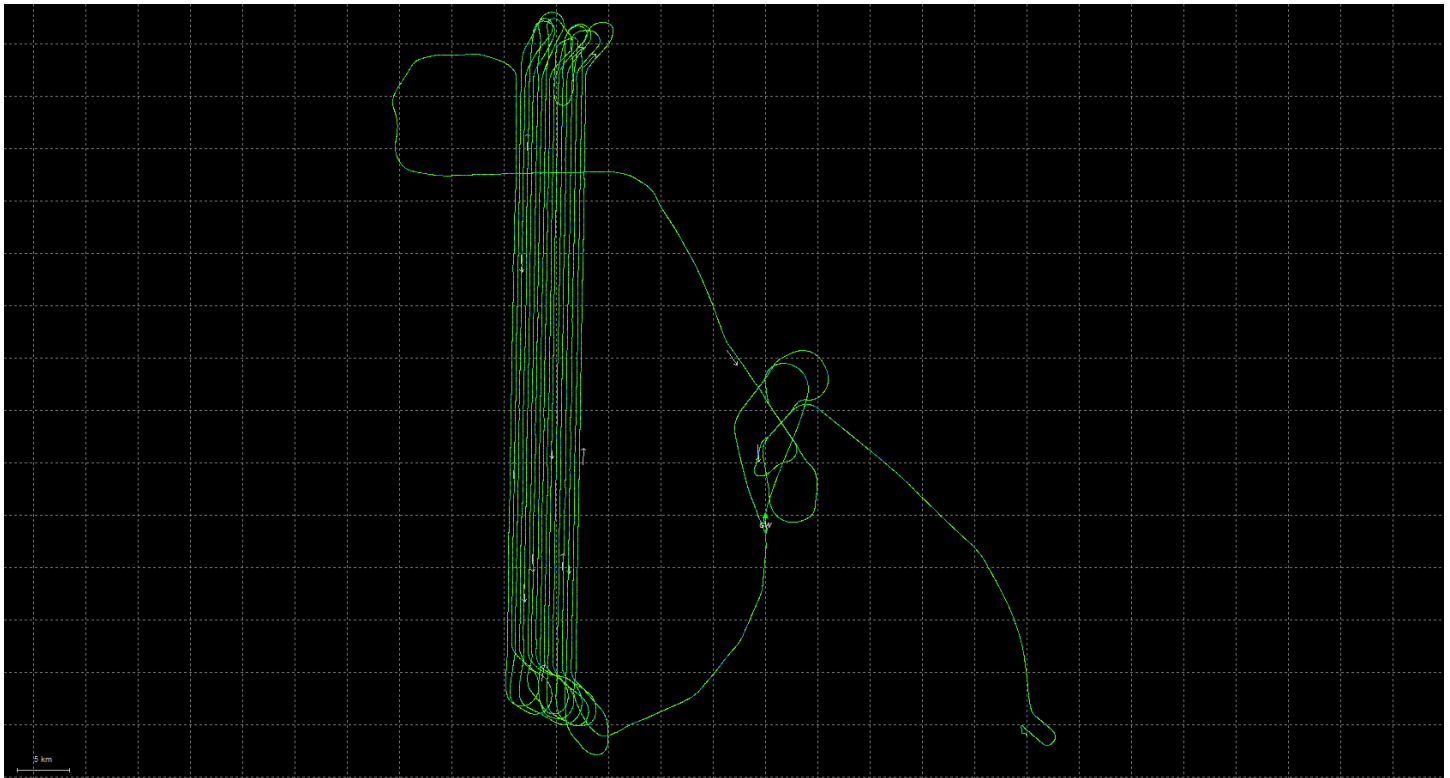
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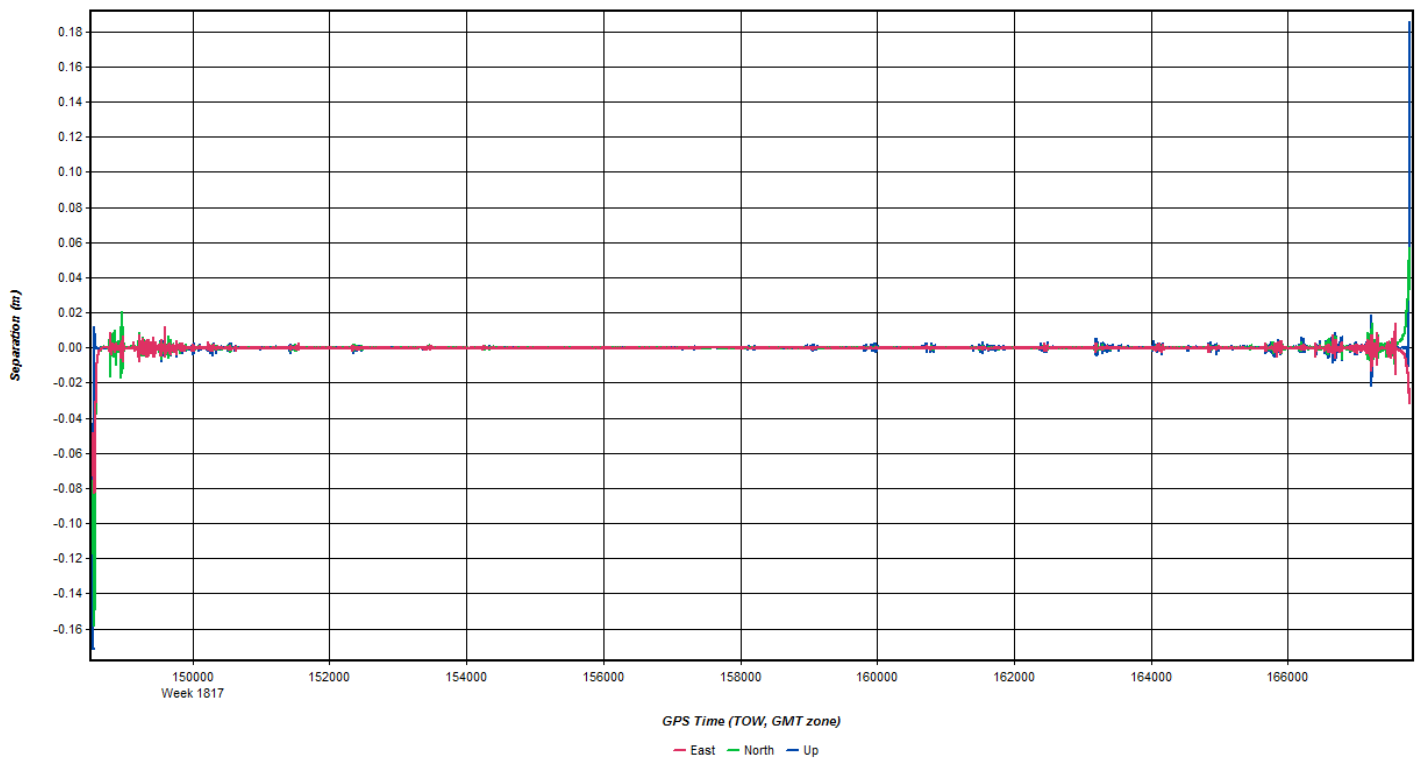
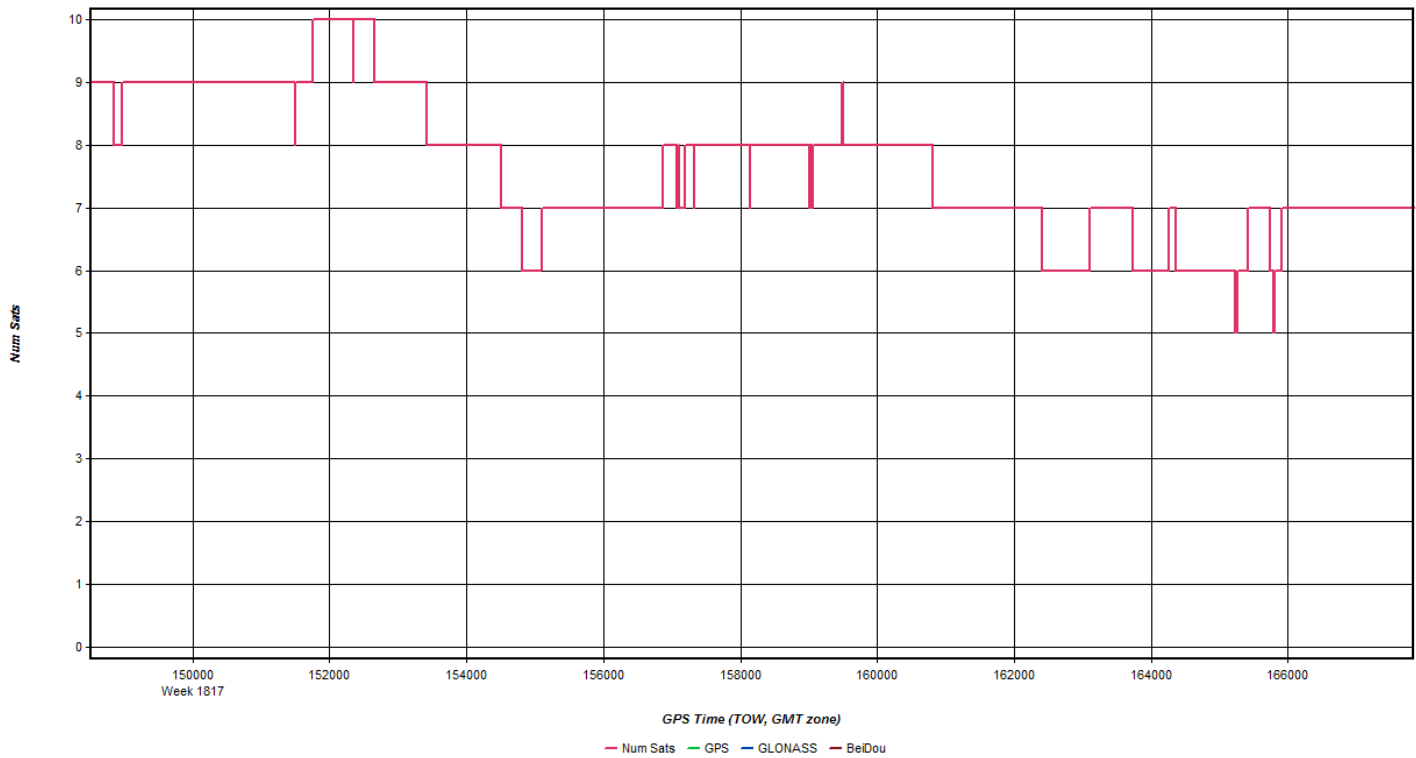
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 Applied height: 2.055 m

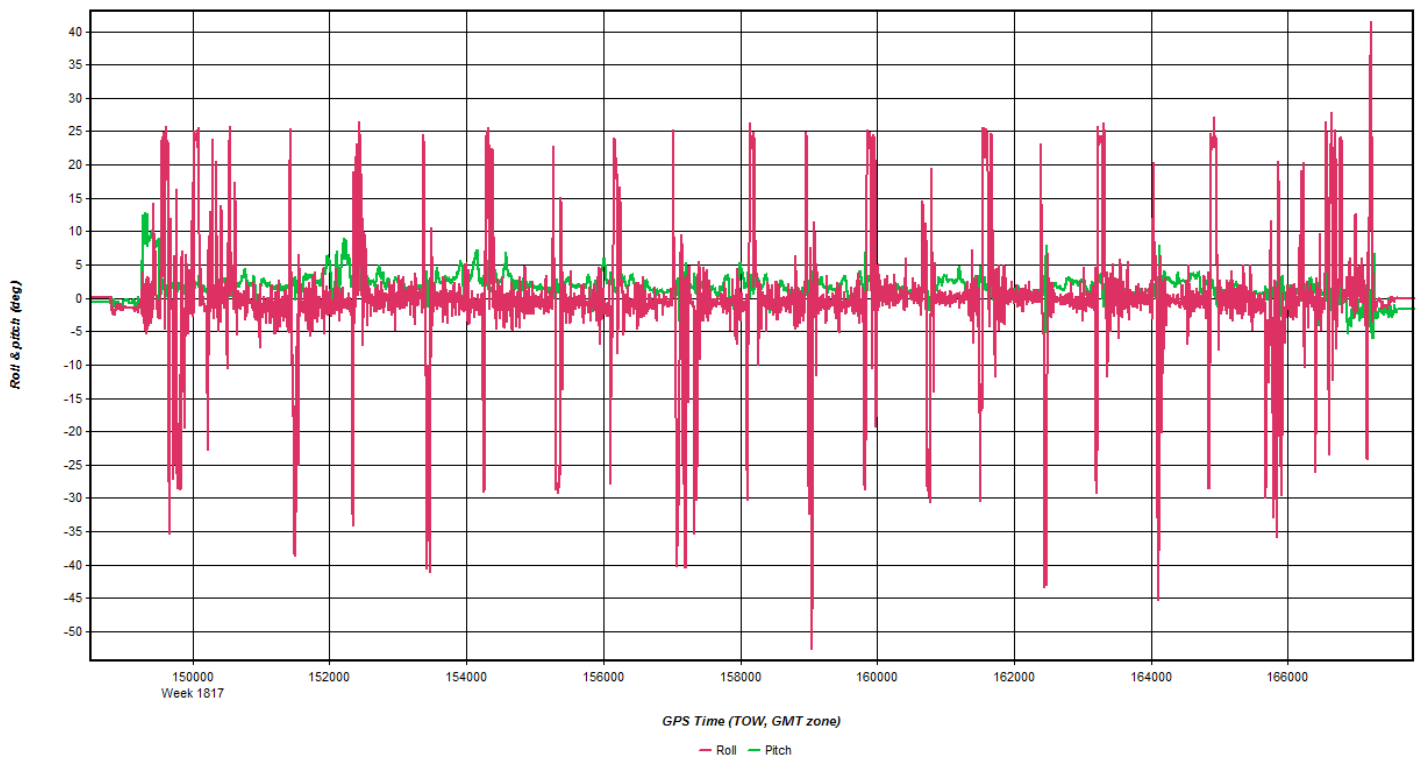
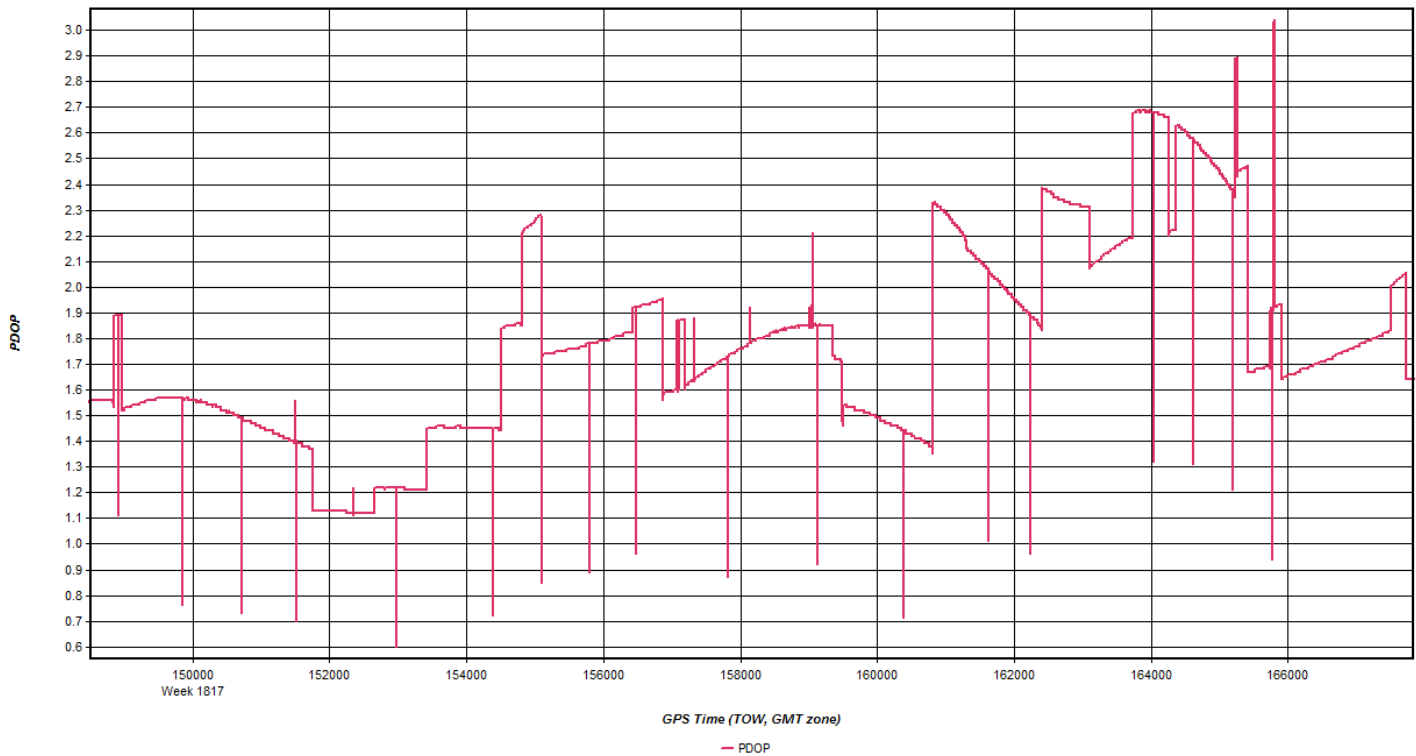
Measured to
☒ ARP
☐ L1 Phase Centre
 Compute From Slant

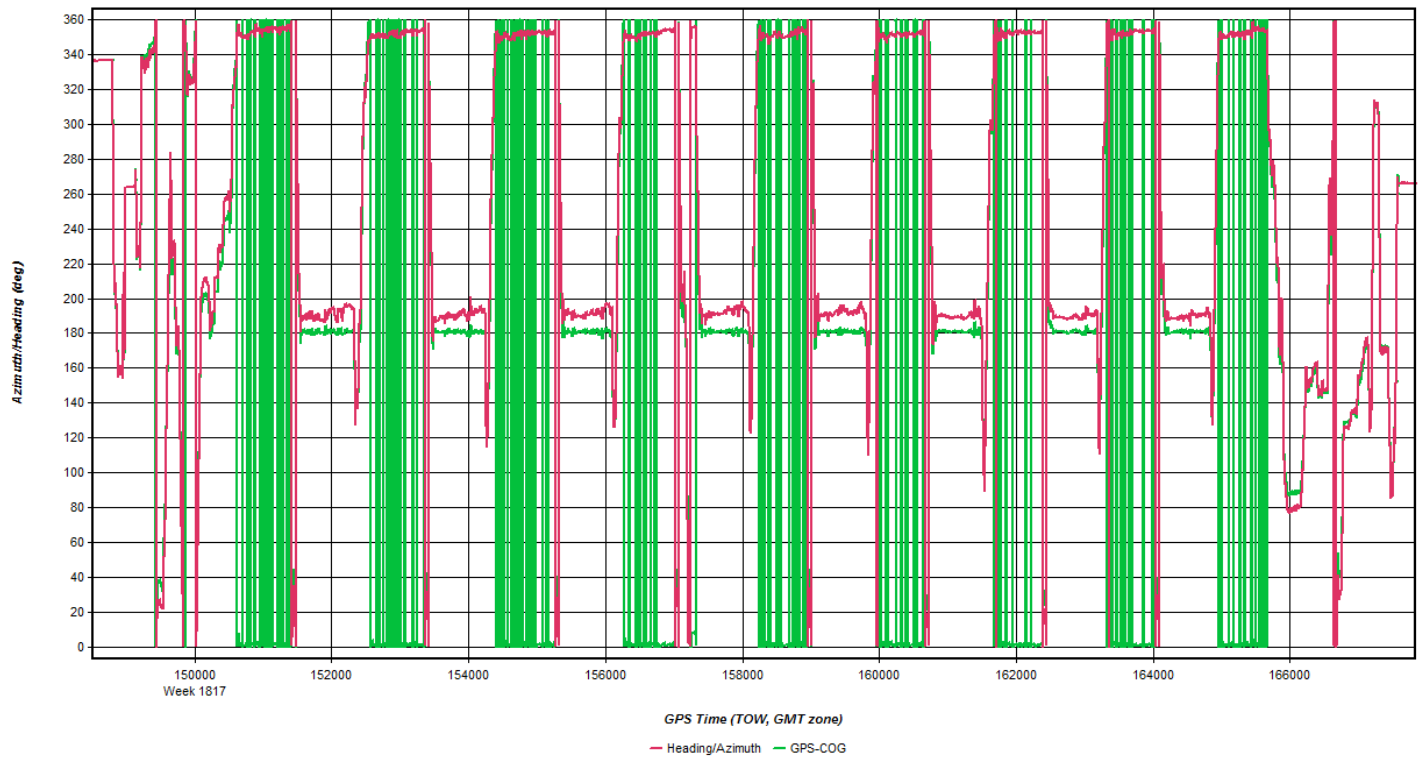
OK Cancel

Nov 3, 2014-D (7121)









Base Station Log

Coordinate/Antenna Settings

Master Remote

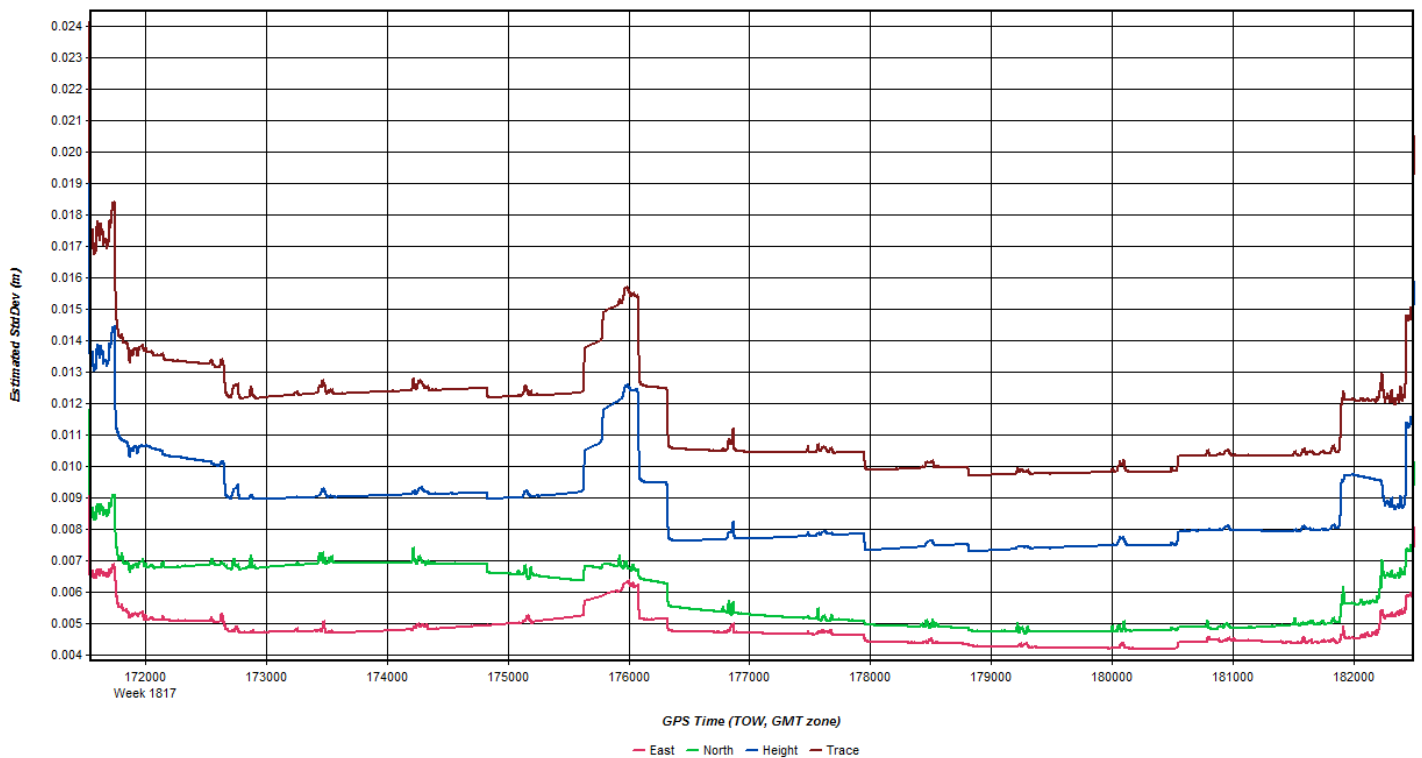
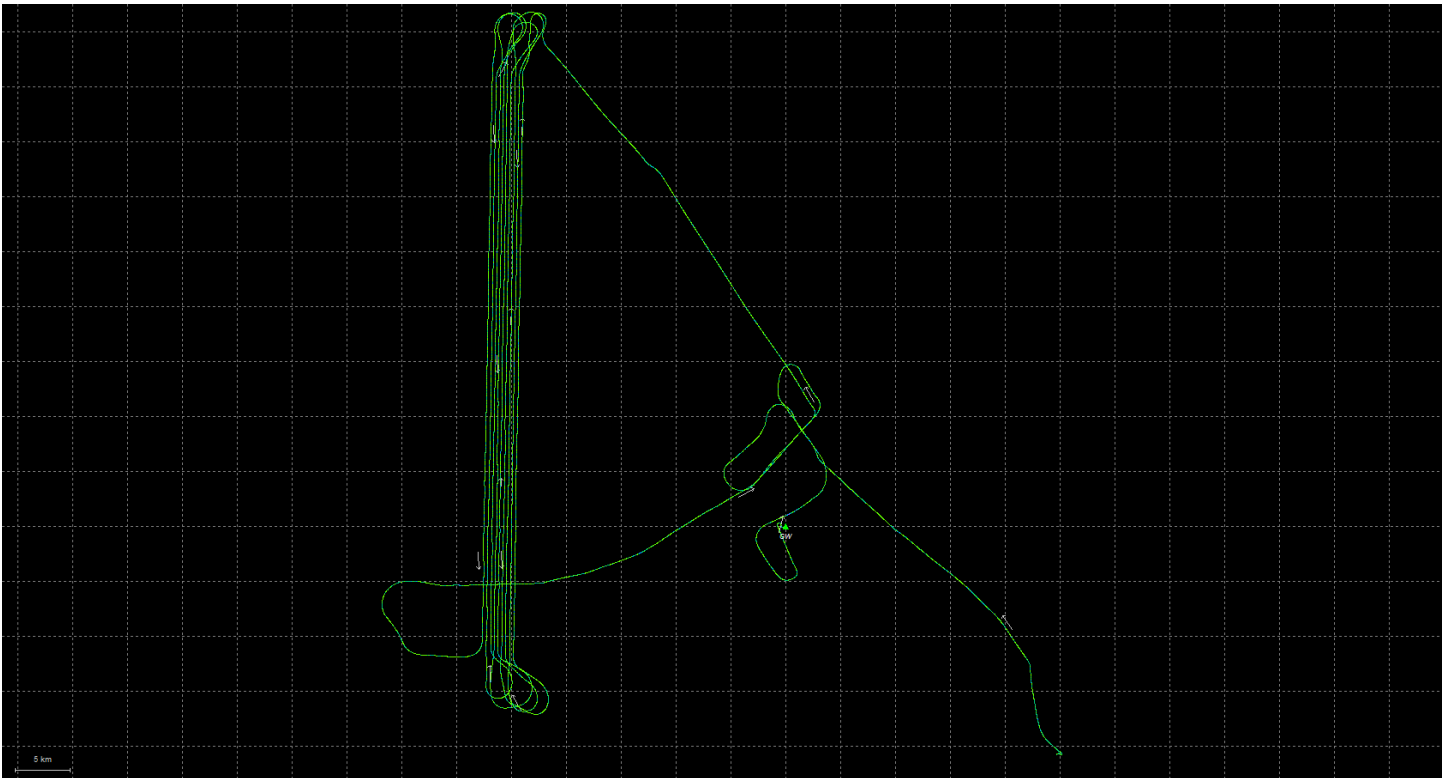
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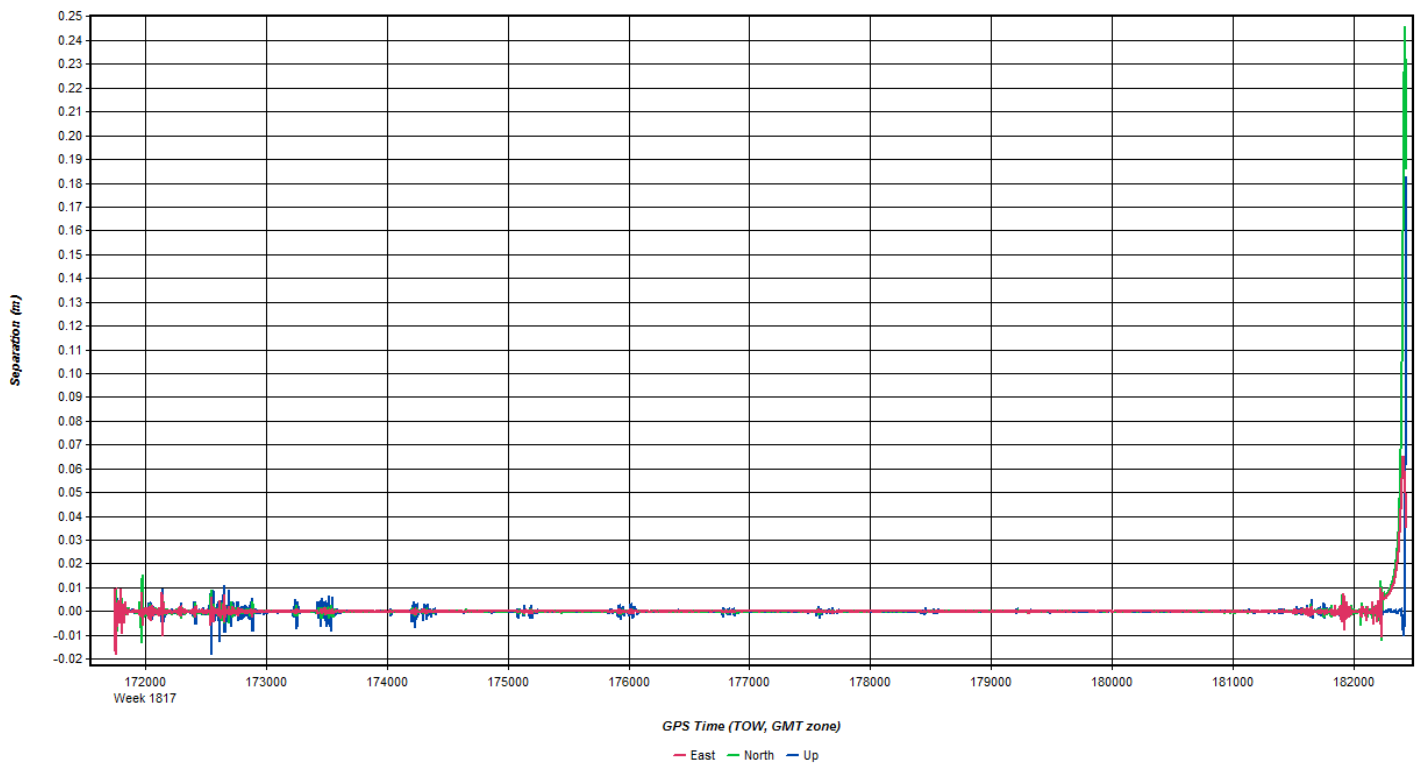
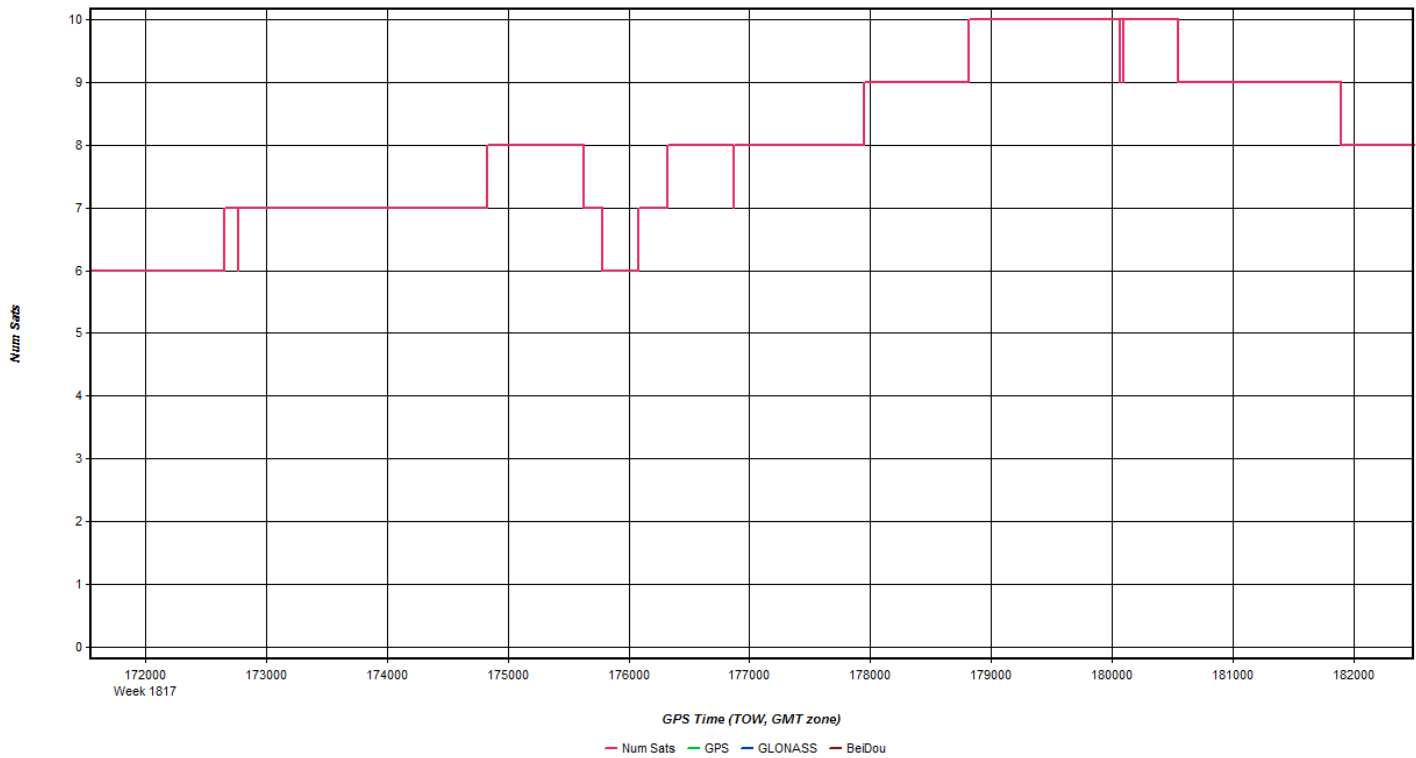
Coordinates
Latitude: North 44 39 01.91729 Compute from PPP
Longitude: West 73 27 30.70400 Enter Grid Values
Ellipsoidal height: 20.665 m Enter MSL Height
Datum: NAD83(2011) Datum Options
Select From Favorites Add To Favorites Use Average Position

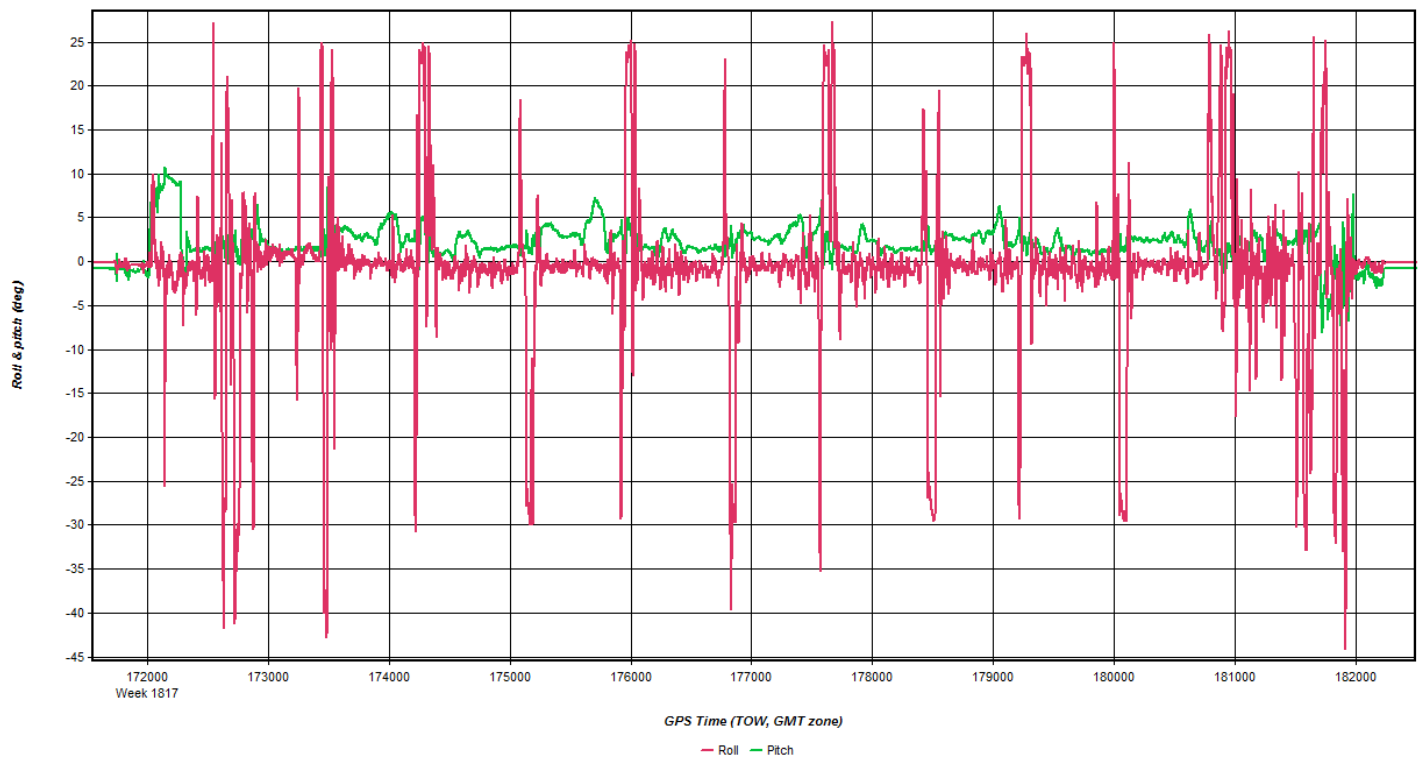
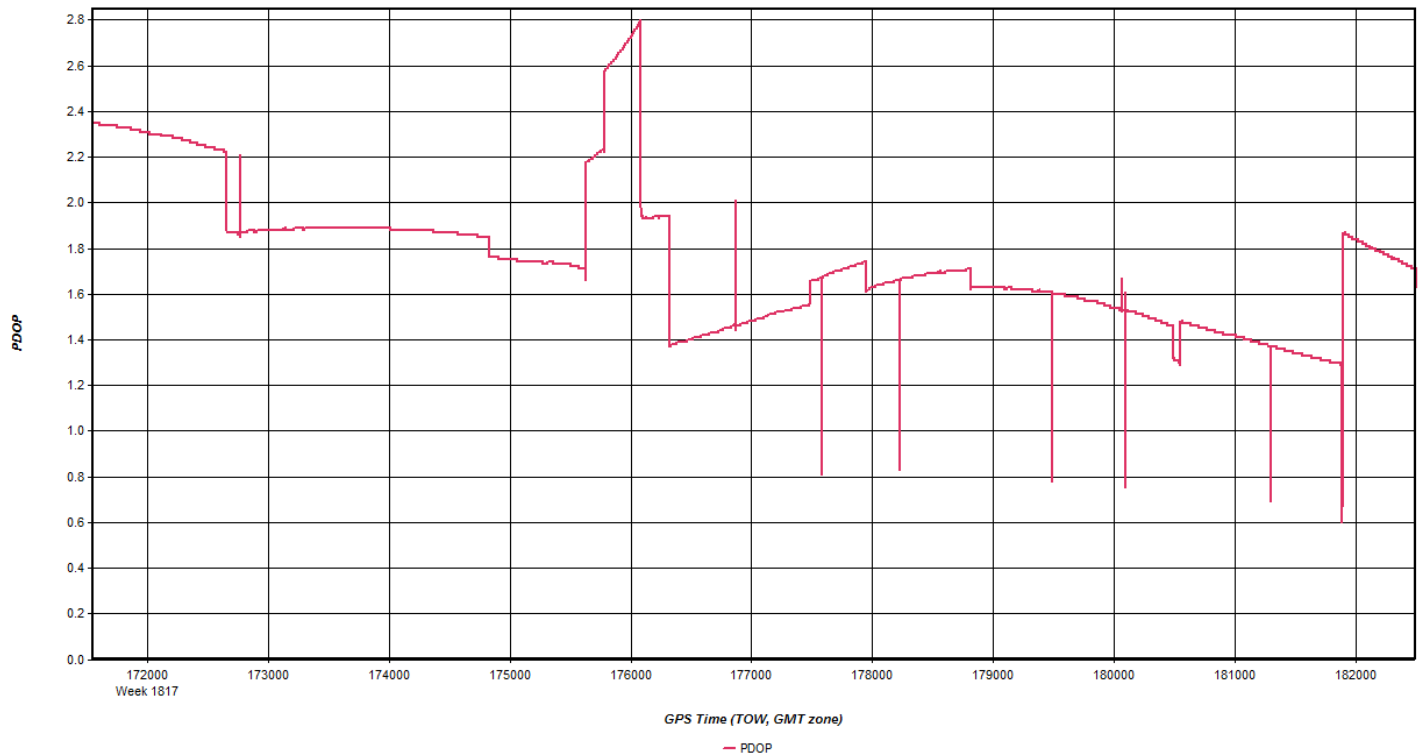
Antenna Height
From station file: True-vert, HI View STA File
Antenna profile: TRM41249.00, TZGD Info
Measured height: 2.000 m
ARP to L1 offset: 0.055 m
Applied height: 2.055 m
Measured to
☒ ARP
☐ L1 Phase Centre
Compute From Slant

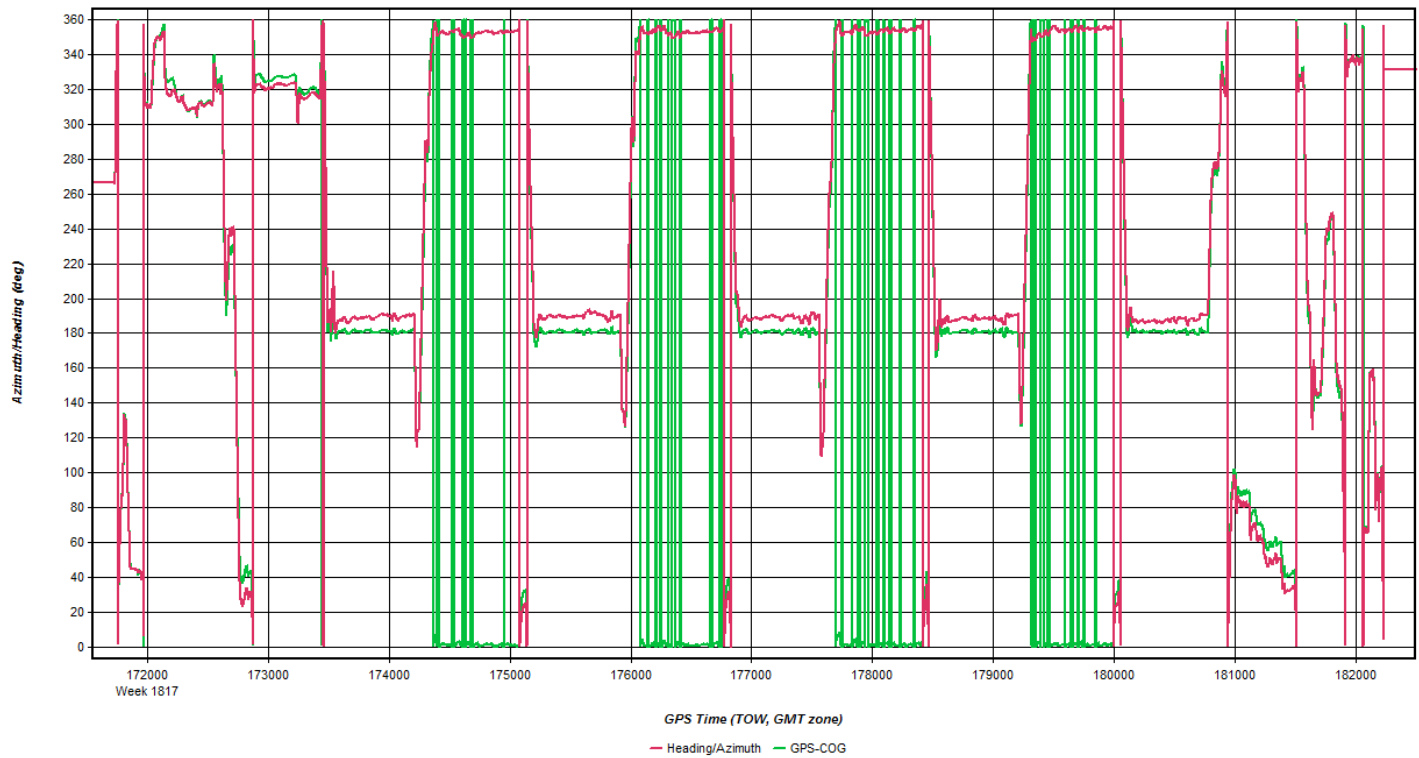
OK Cancel

Nov 3, 2014-E (7121)









Base Station Log

Coordinate/Antenna Settings

Master Remote

Base Station
 1: GW Name: GW ☐ Disabled
 File: D:\Raw\23902_NY_Clinton_Essex_Lake_Champlain\(\pbq)_usgs_

Coordinates
 Latitude: North 44 39 01.91729 Compute from PPP
 Longitude: West 73 27 30.70400 Enter Grid Values
 Ellipsoidal height: 20.665 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

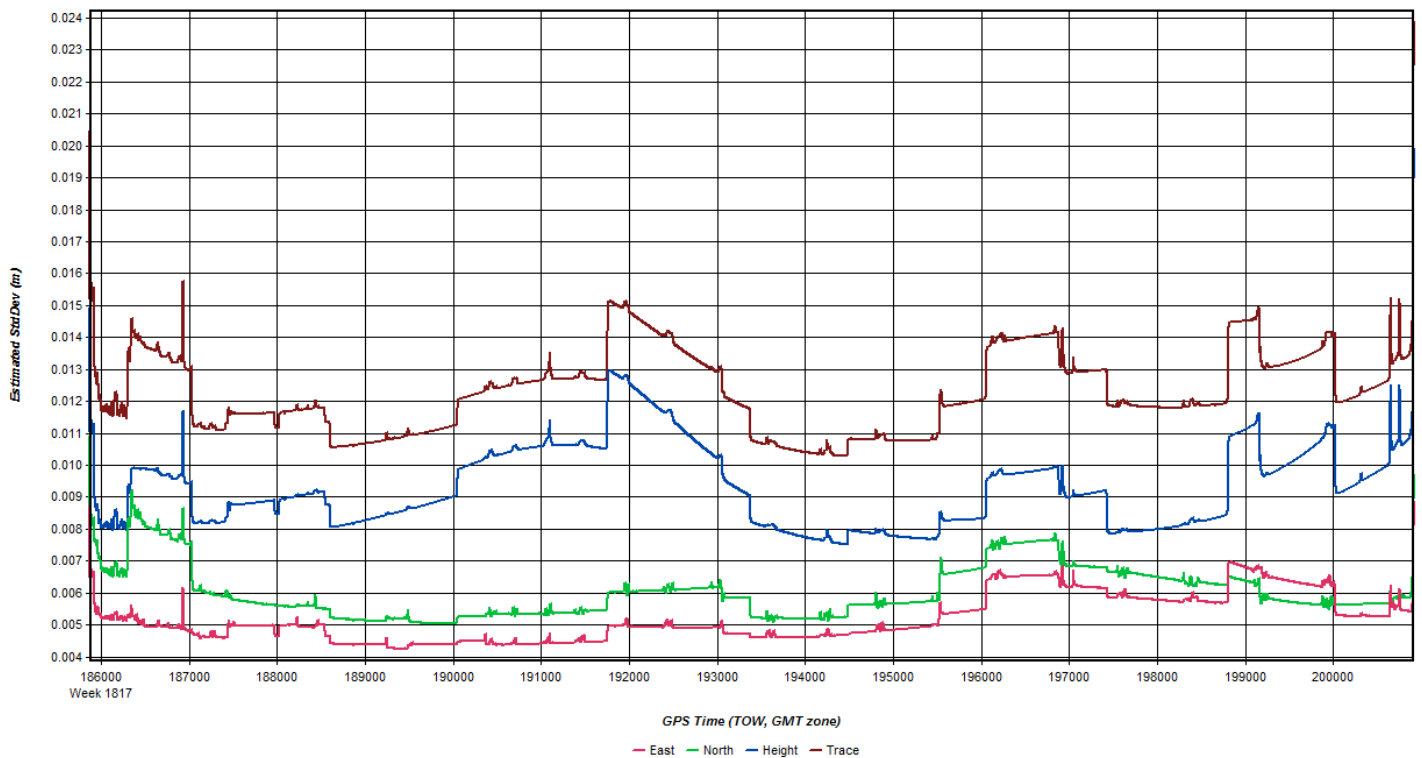
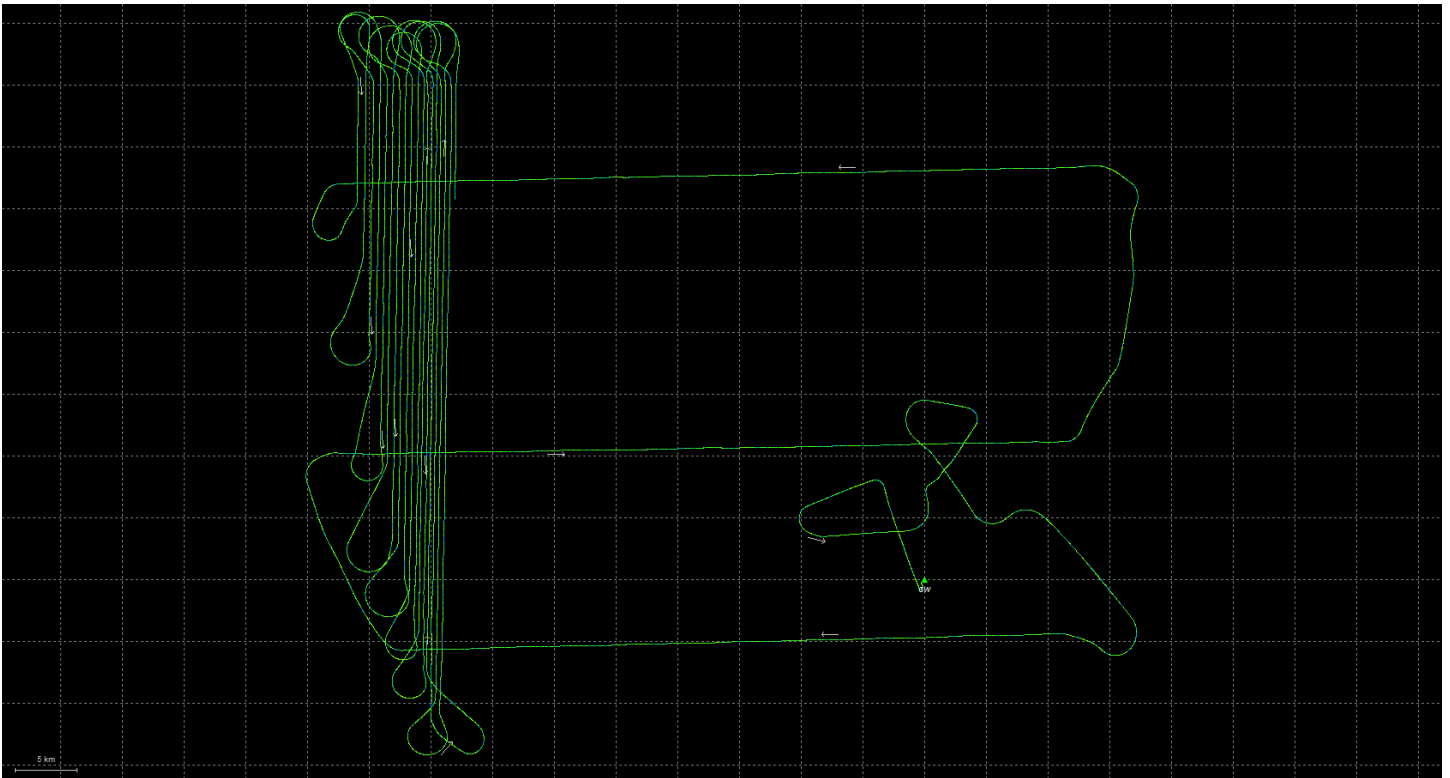
Antenna Height
 From station file: True-vert, HI View STA File
 Antenna profile: TRM41249.00, TZGD Info

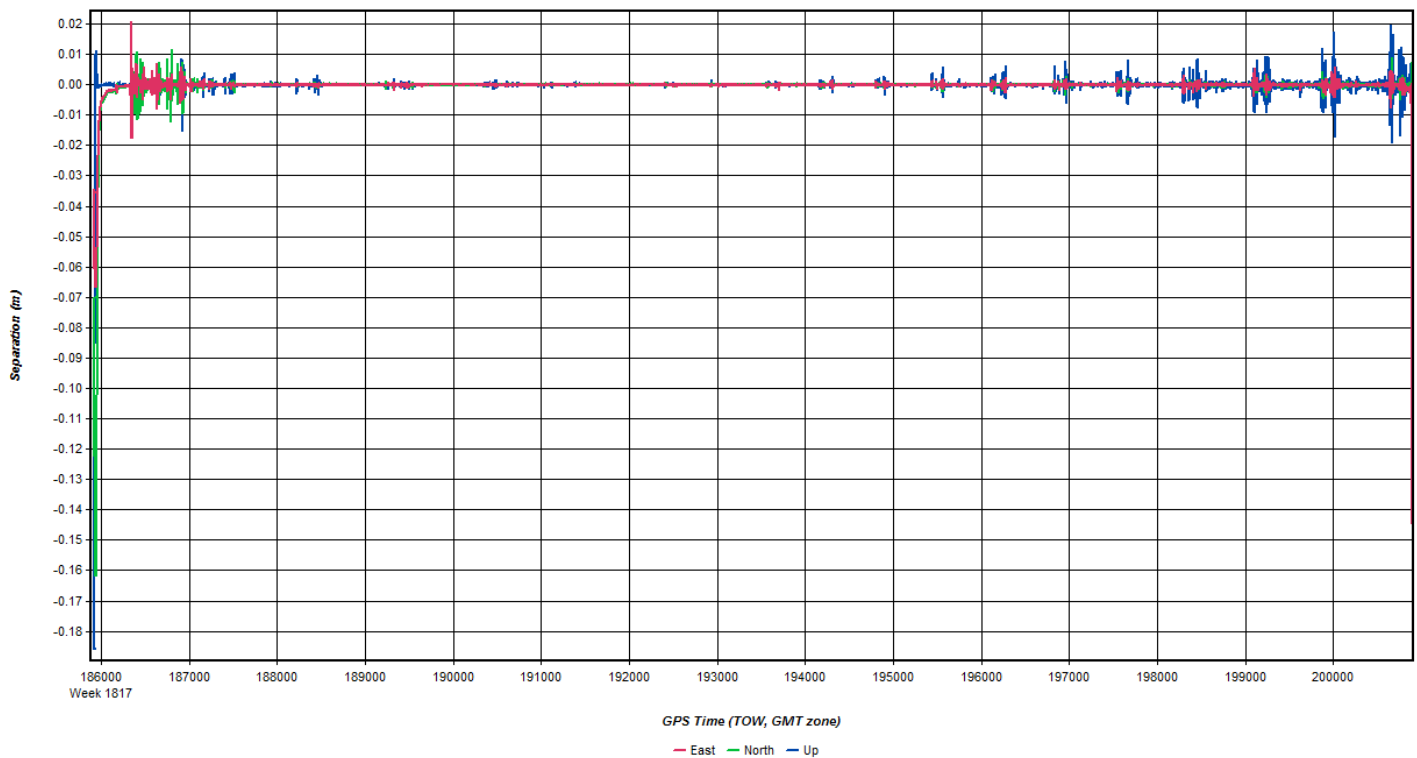
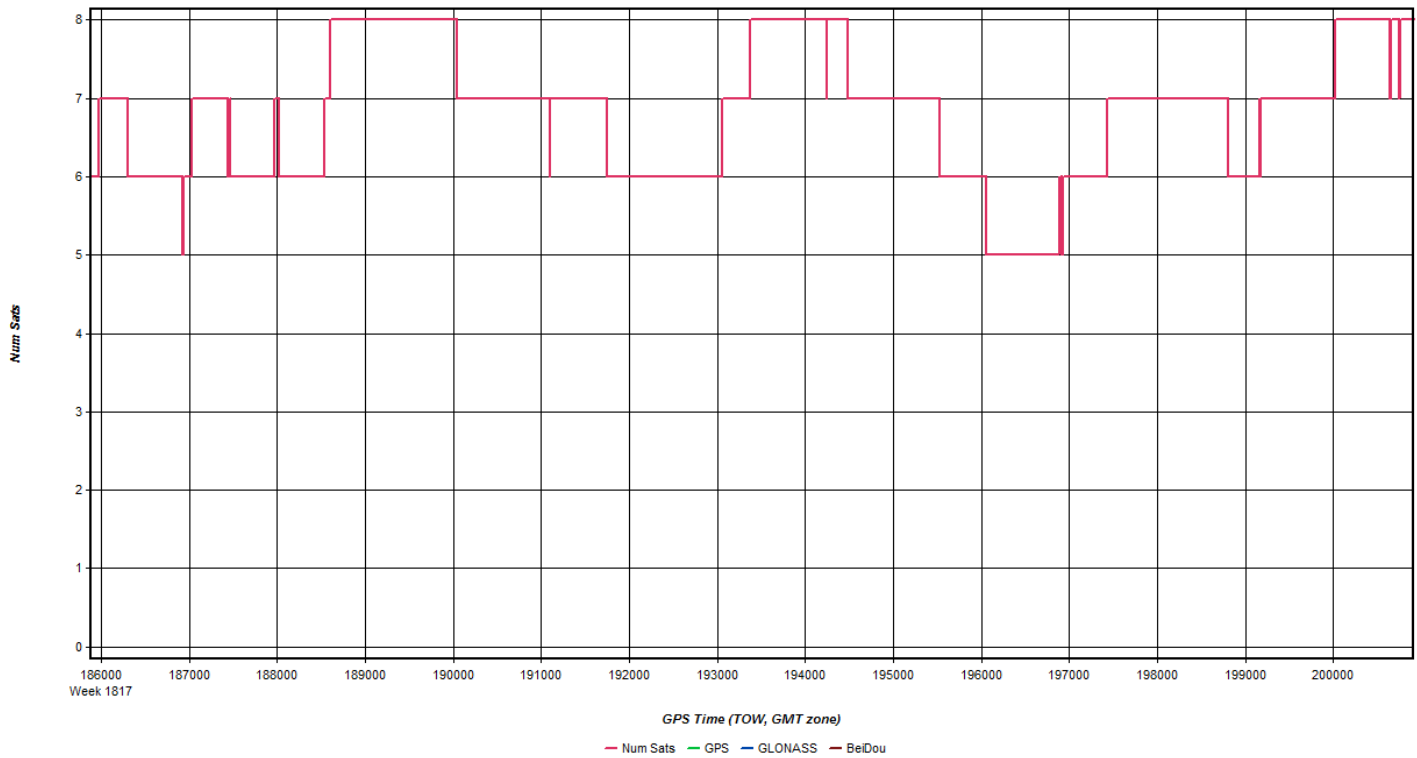
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 ARP to L1 offset: 0.055 m
 Applied height: 2.055 m

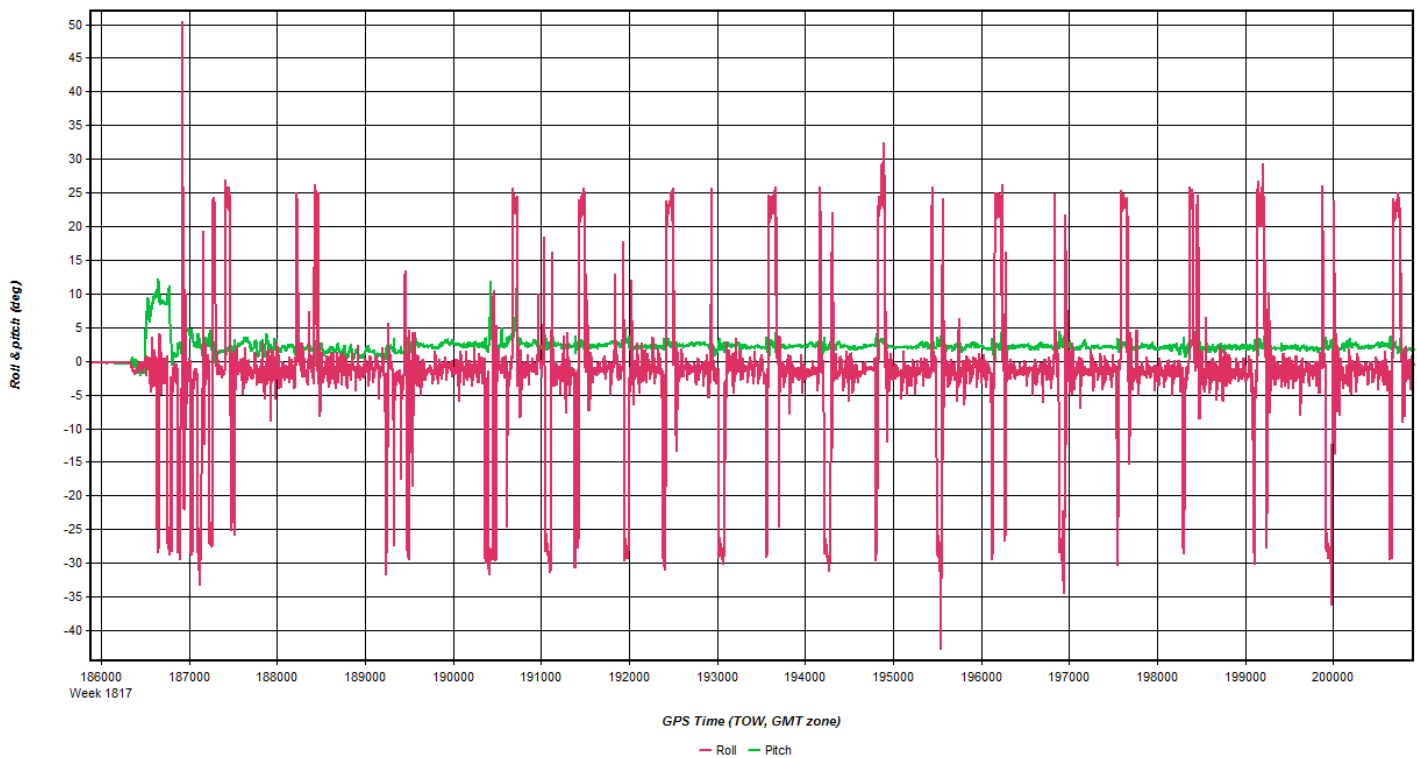
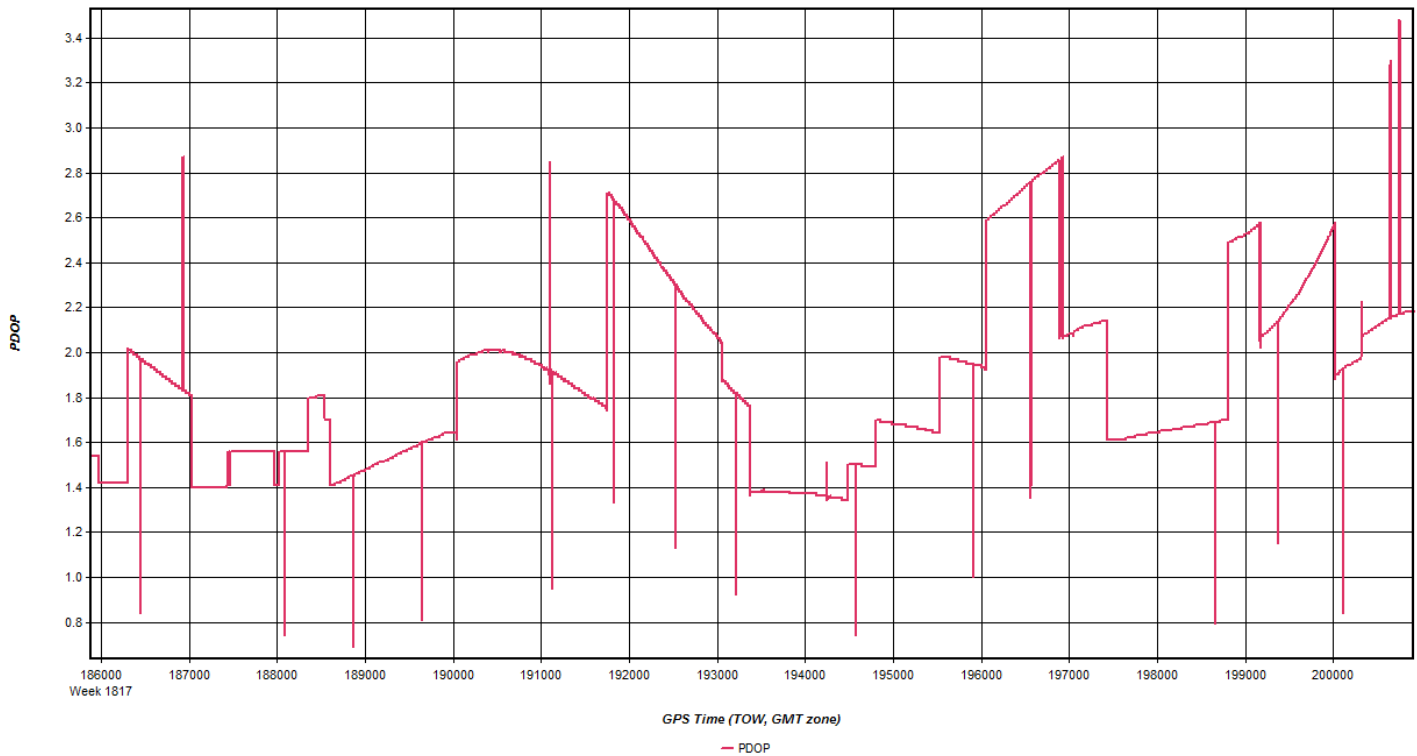
Measured to
☒ ARP
☐ L1 Phase Centre
 Compute From Slant

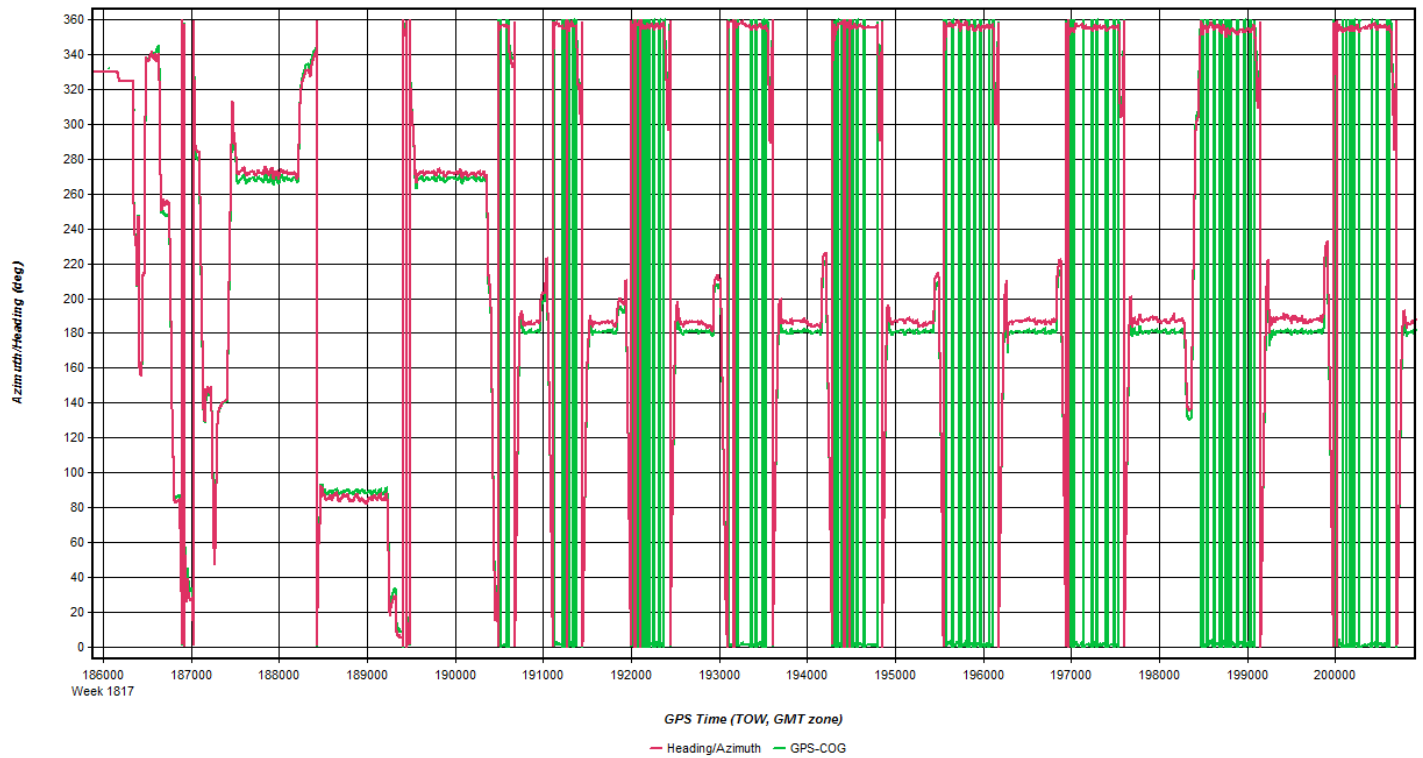
OK Cancel

Nov 4, 2014-A (7121)









Base Station Log

Coordinate/Antenna Settings

Master Remote

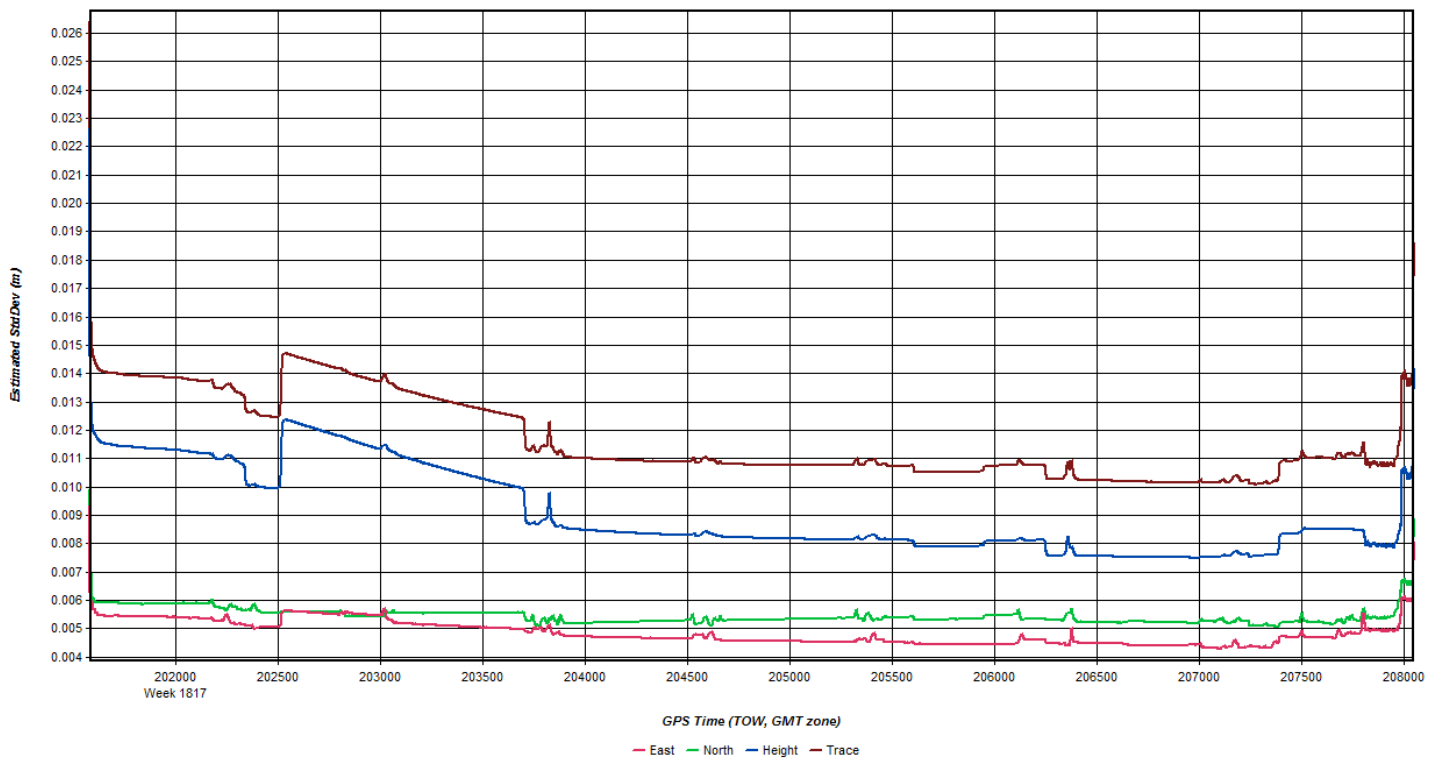
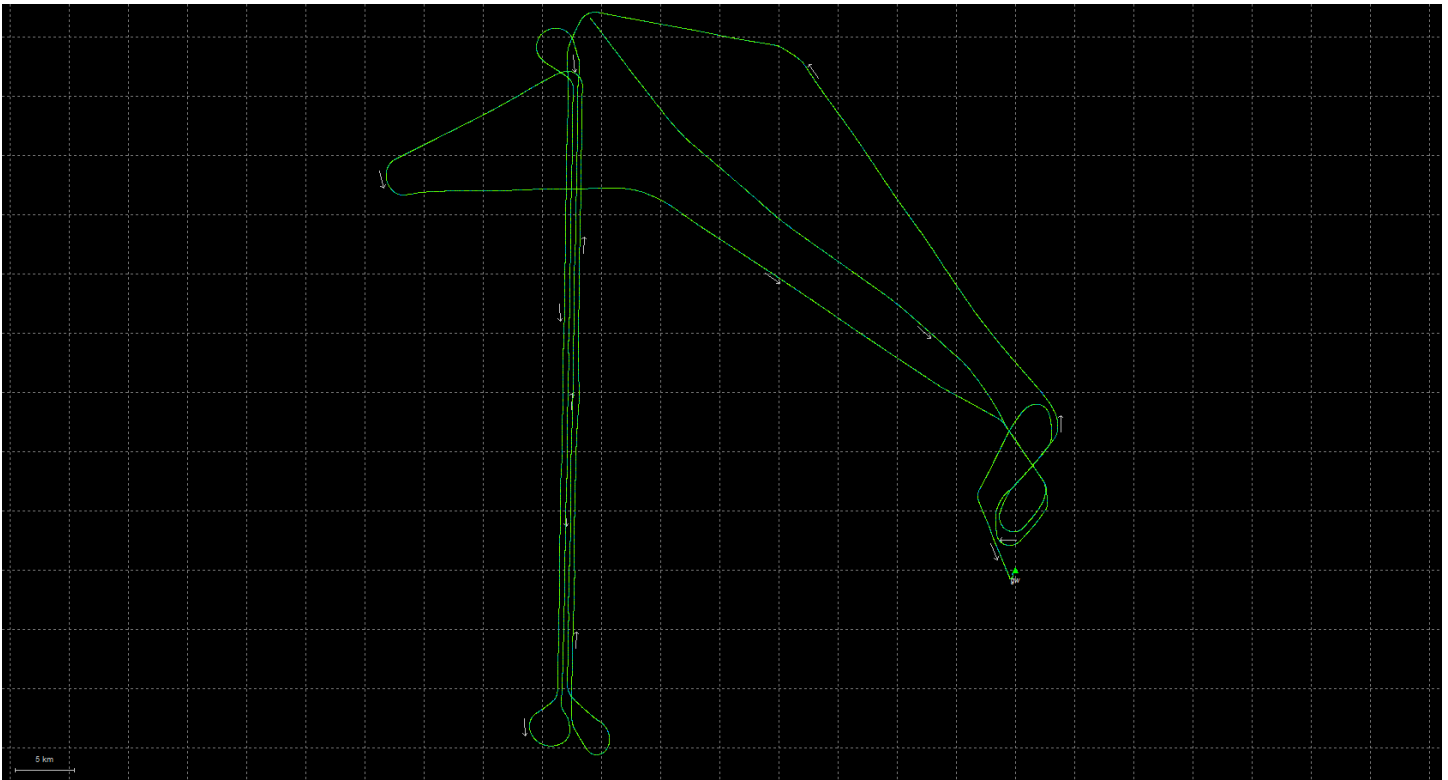
Base Station
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File: D:\Raw\23902_NY_Clinton_Essex_Lake_Champlain\pbp_usgs_1

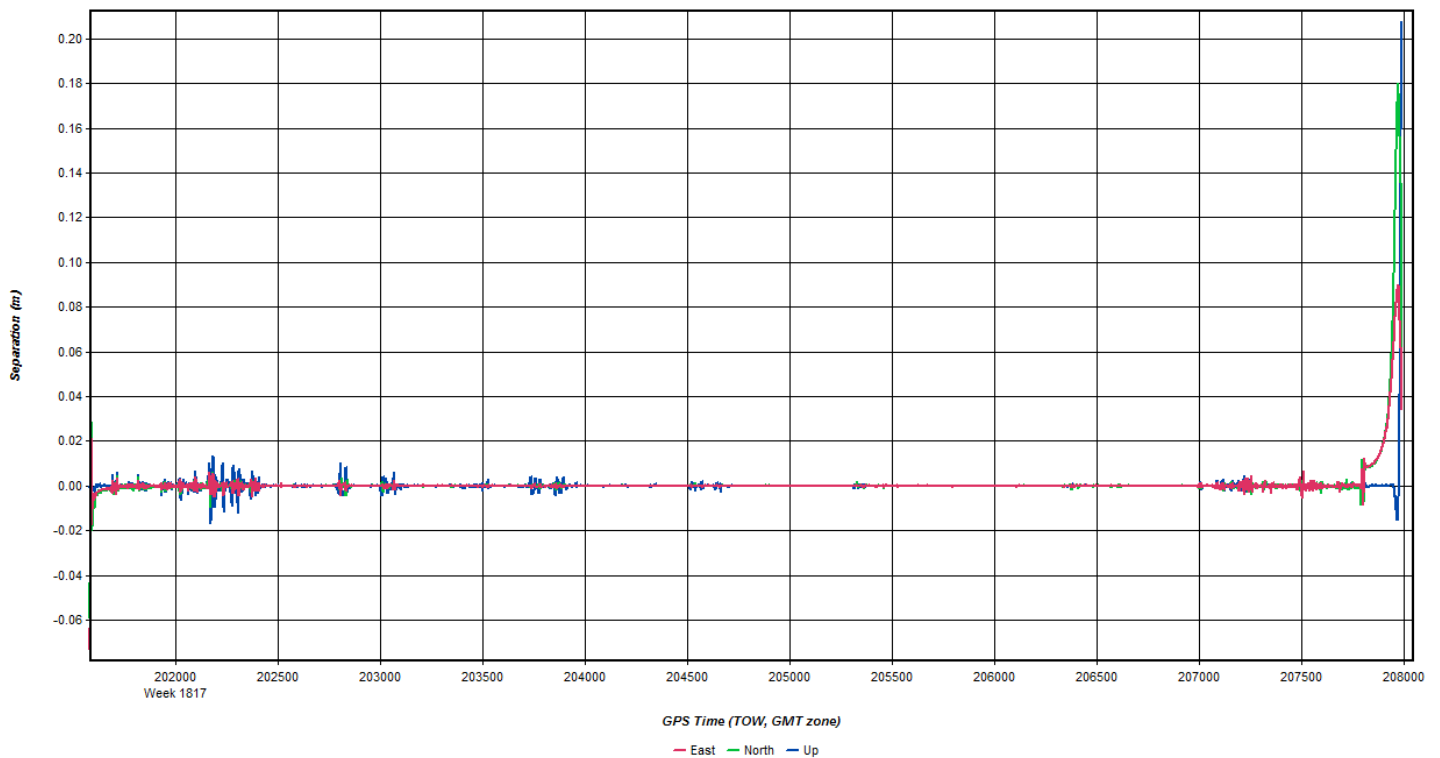
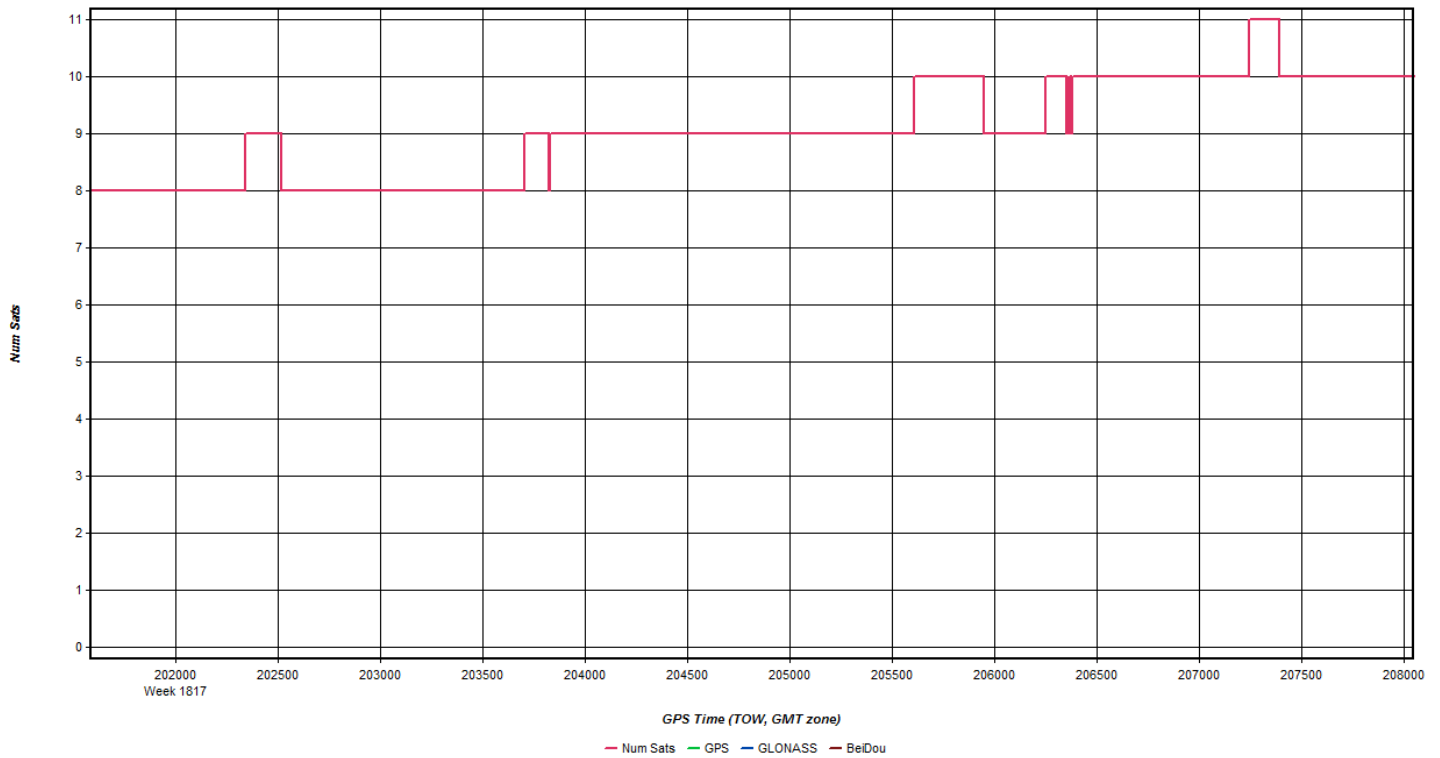
Coordinates
Latitude: North 44 39 01.91729 Compute from PPP
Longitude: West 73 27 30.70400 Enter Grid Values
Ellipsoidal height: 20.665 m Enter MSL Height
Datum: NAD83(2011) Datum Options
Select From Favorites Add To Favorites Use Average Position

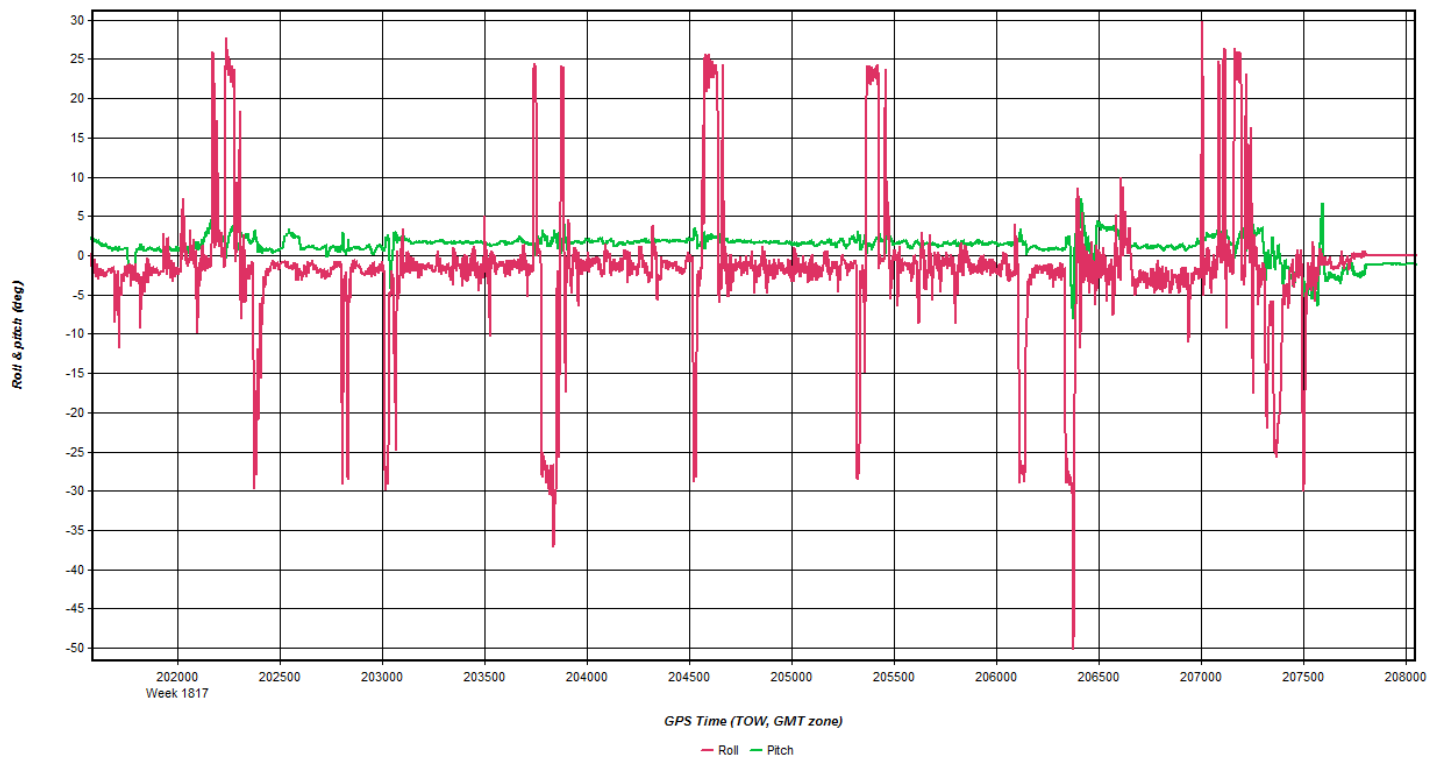
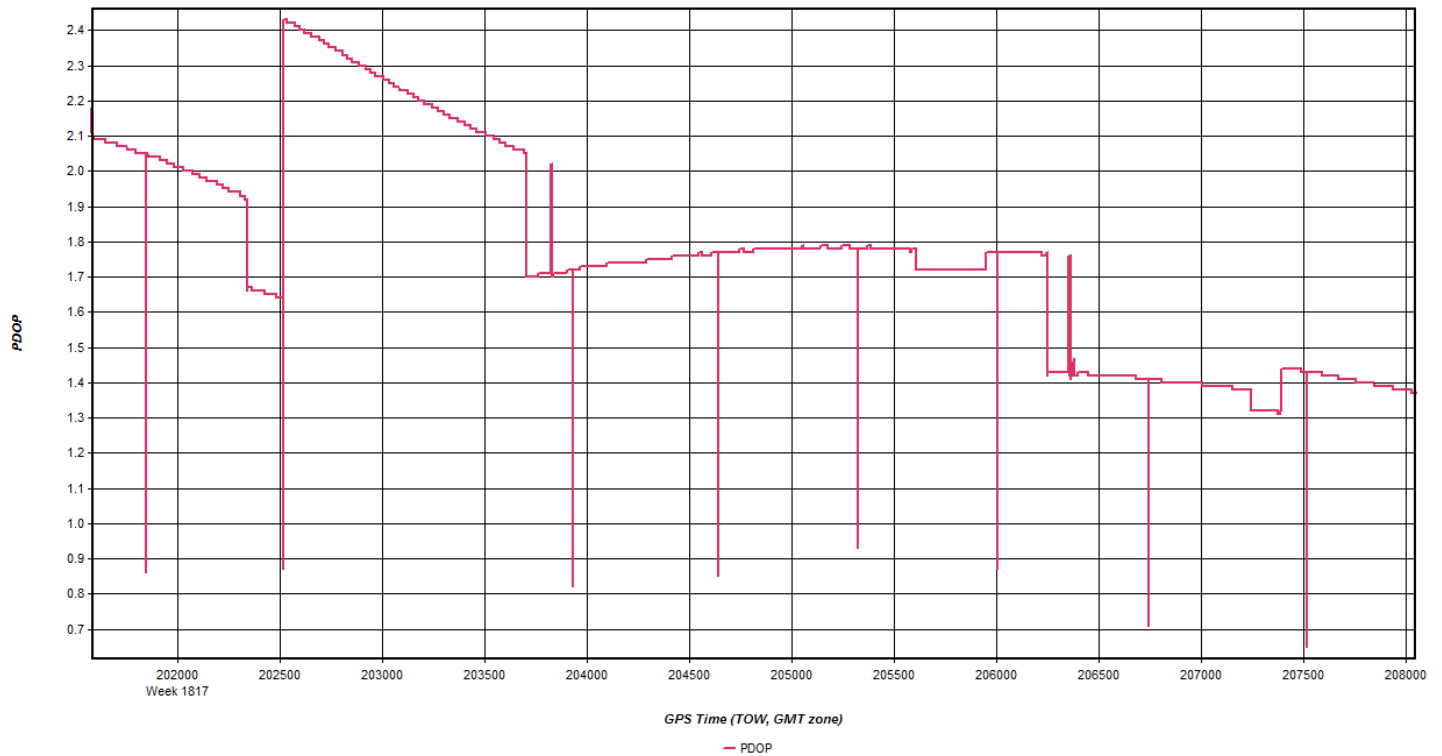
Antenna Height
From station file: True-vert, HI View STA File
Antenna profile: TRM41249.00, TZGD Info
Measured height: 2.000 m
ARP to L1 offset: 0.055 m
Applied height: 2.055 m
Measured to
☒ ARP
☐ L1 Phase Centre
Compute From Slant

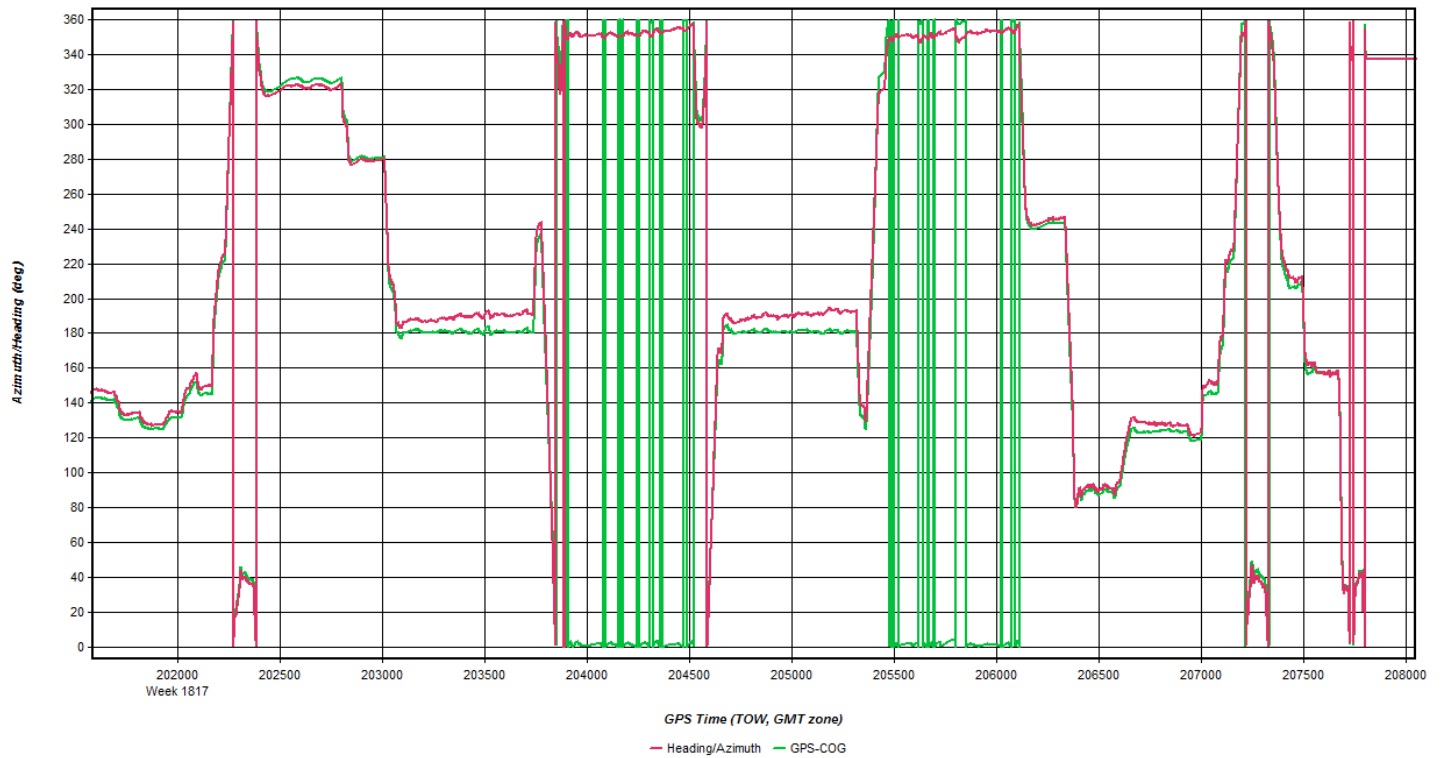
OK Cancel

Nov 4, 2014-B (7121)









Base Station Log

Coordinate/Antenna Settings

Master Remote

Base Station
 1: gw Name: gw ☐ Disabled
 File: D:\Raw\23902_NY_Clinton_Essex_Lake_Champlain\pbp_usgs_1

Coordinates
 Latitude: North 44 39 01.91729 Compute from PPP
 Longitude: West 73 27 30.70400 Enter Grid Values
 Ellipsoidal height: 20.665 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

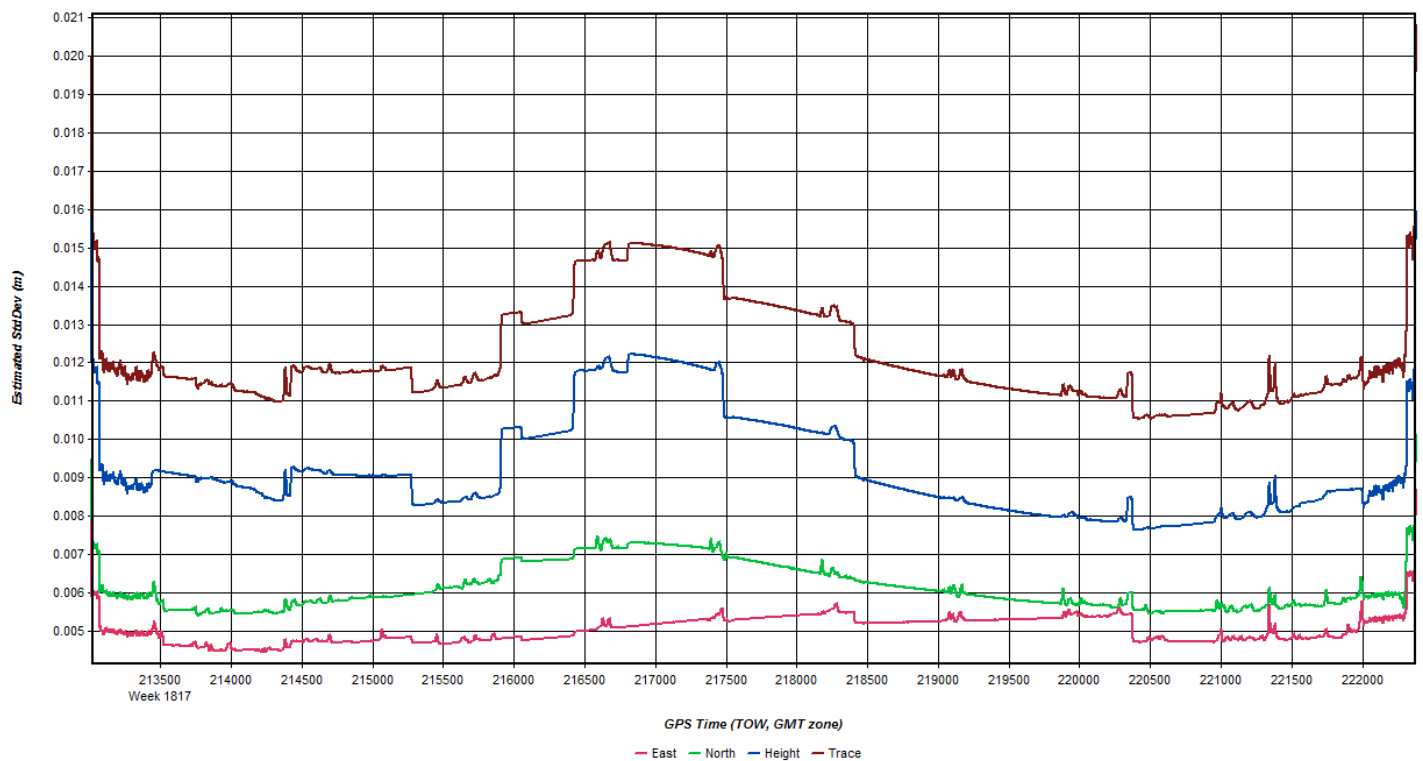
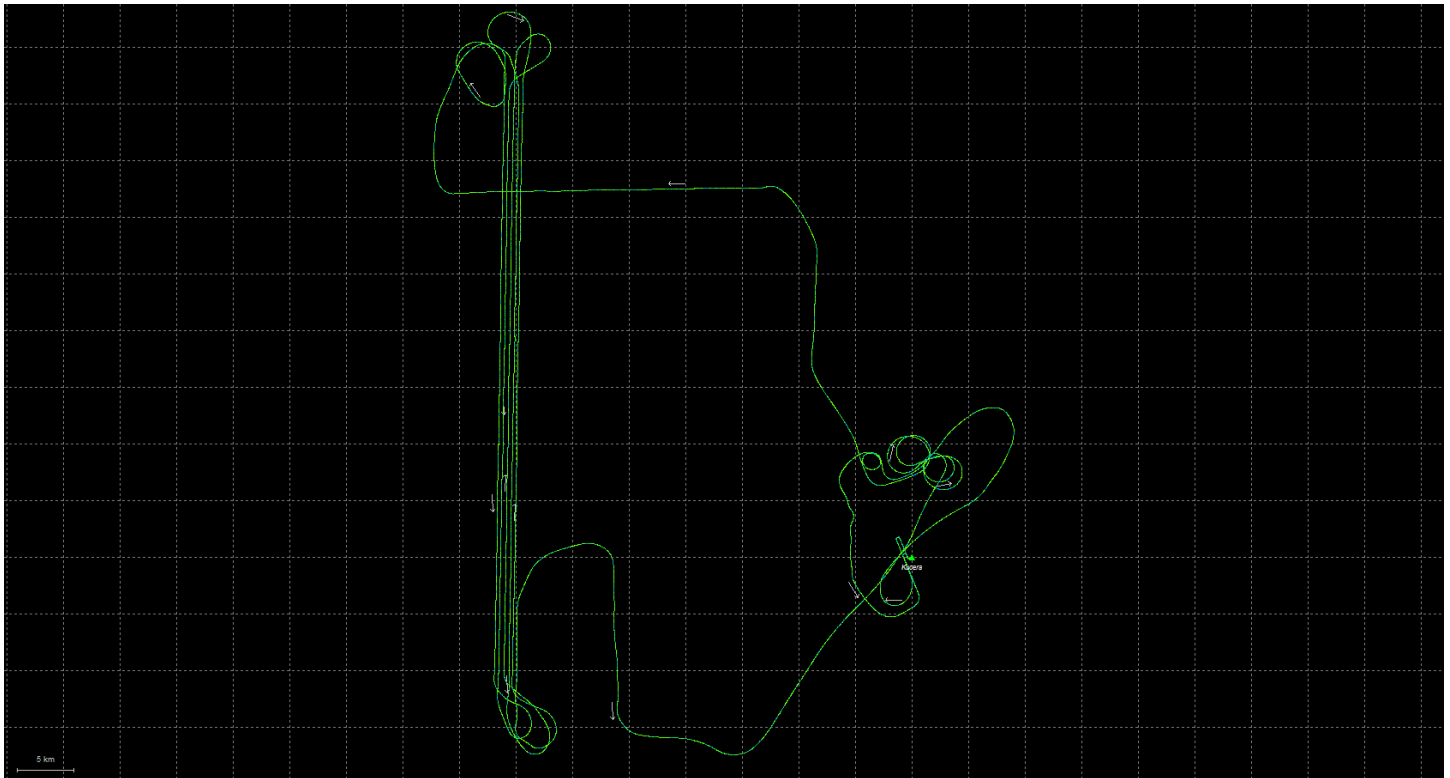
Antenna Height
 From station file: True-vert, HI View STA File
 Antenna profile: TRM41249.00, TZGD Info

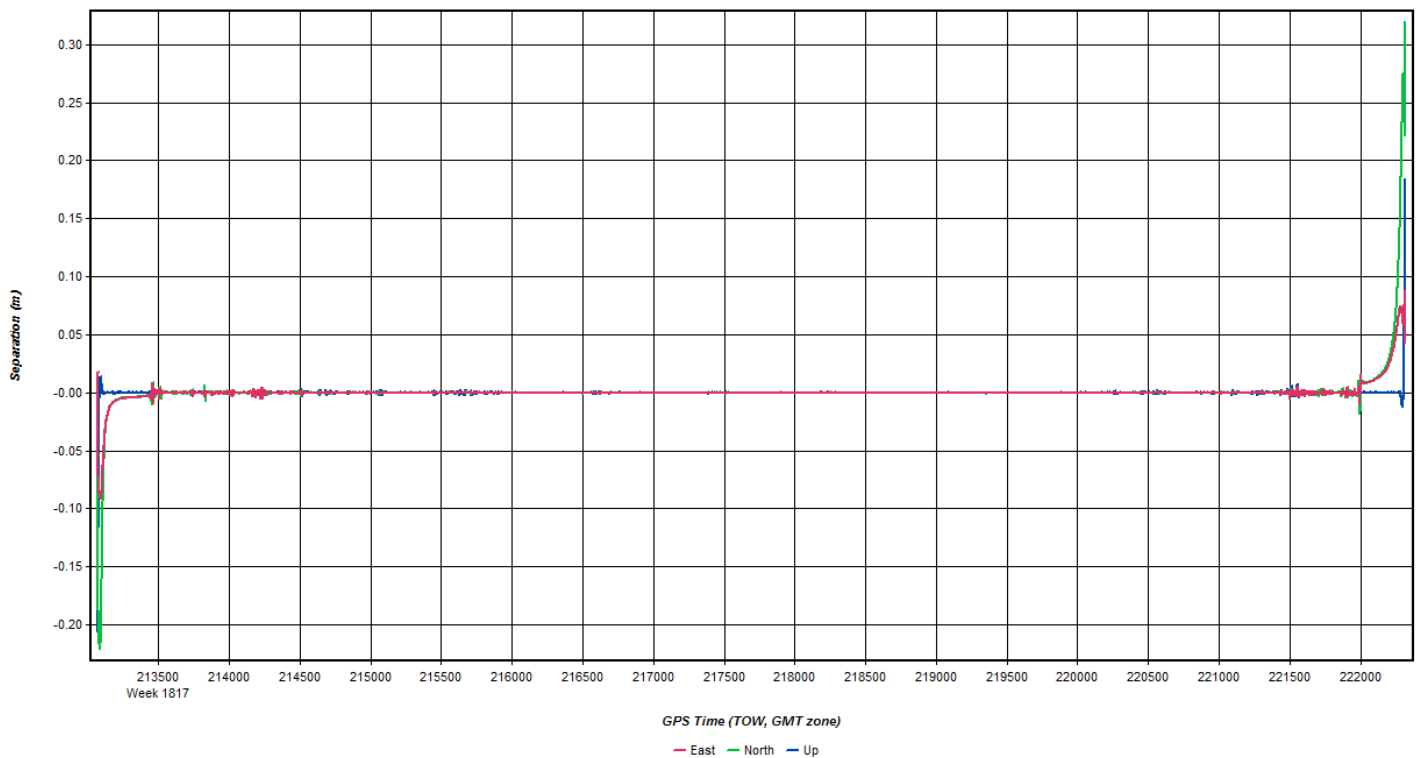
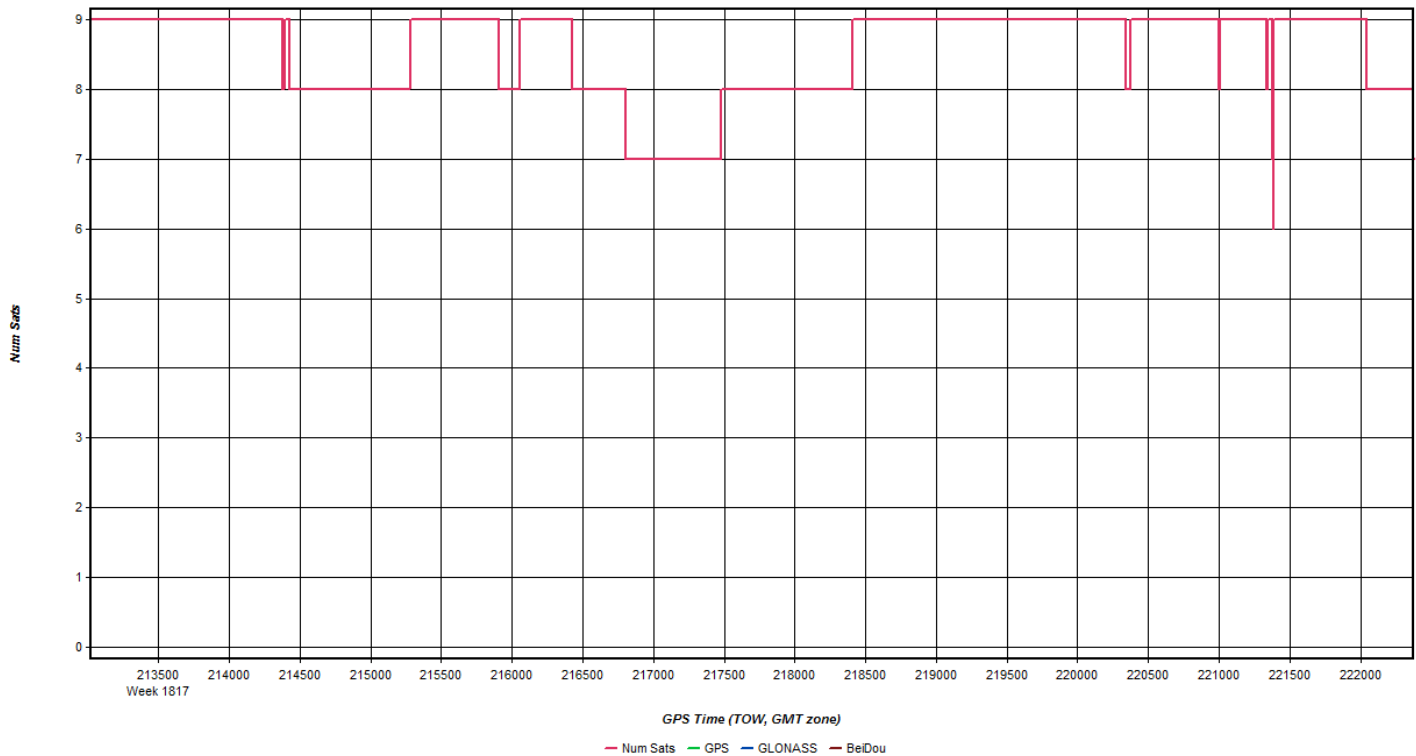
Measured height: 2.000 m
 ARP to L1 offset: 0.055 m
 Applied height: 2.055 m

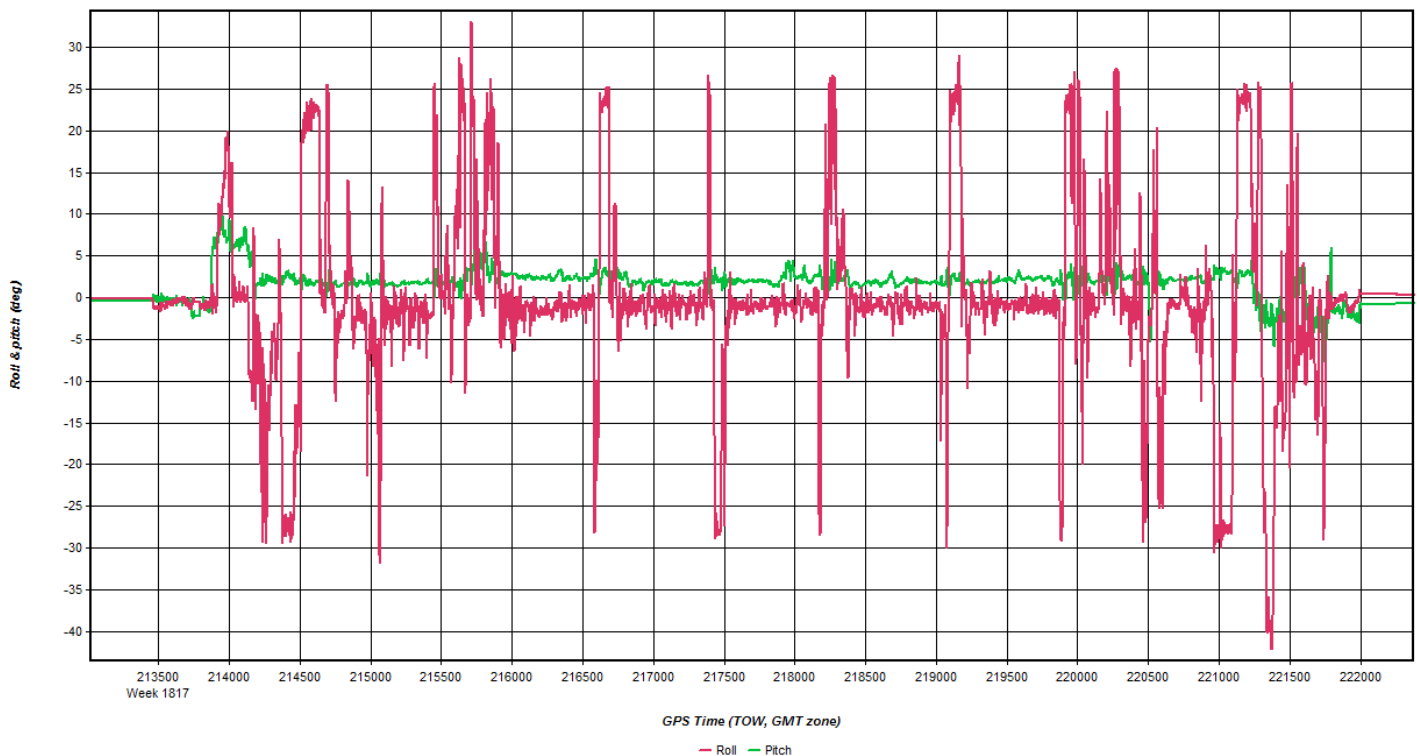
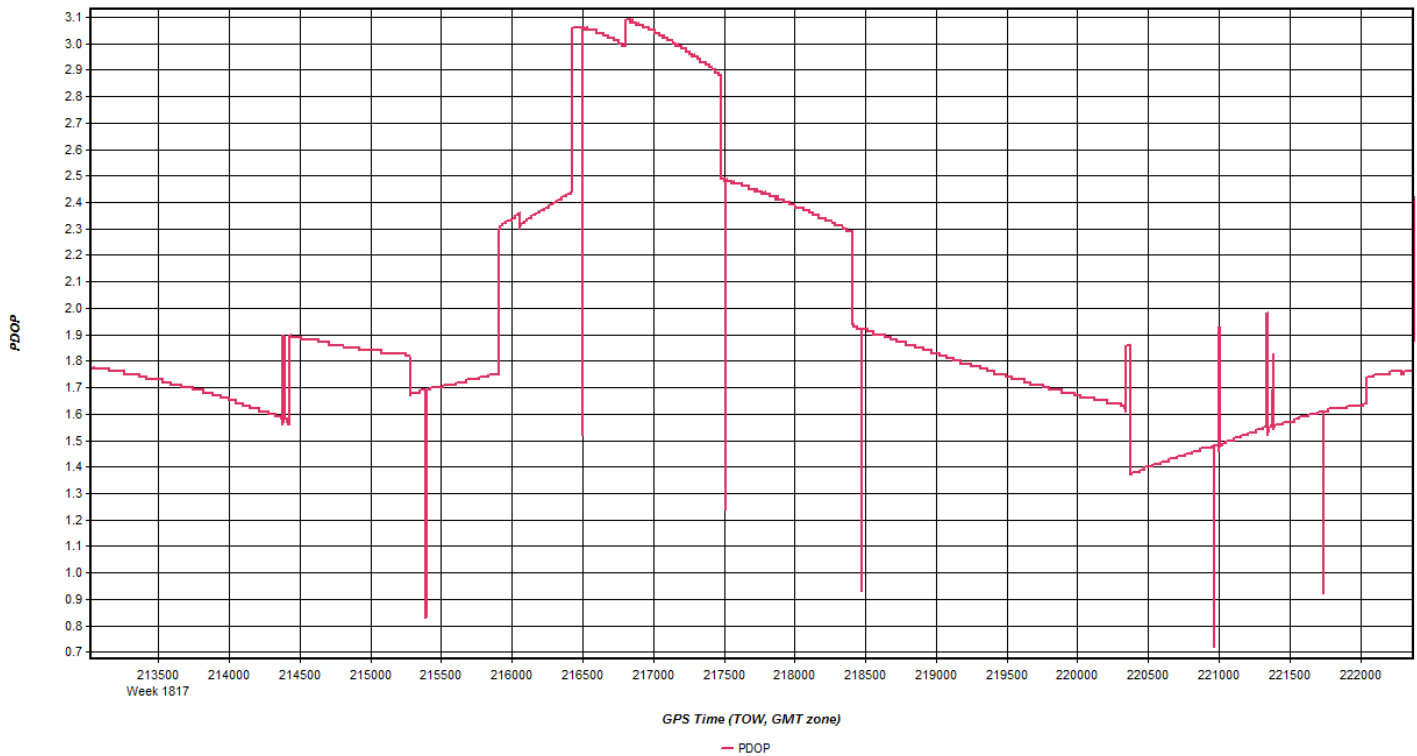
Measured to
☒ ARP
☐ L1 Phase Centre
 Compute From Slant

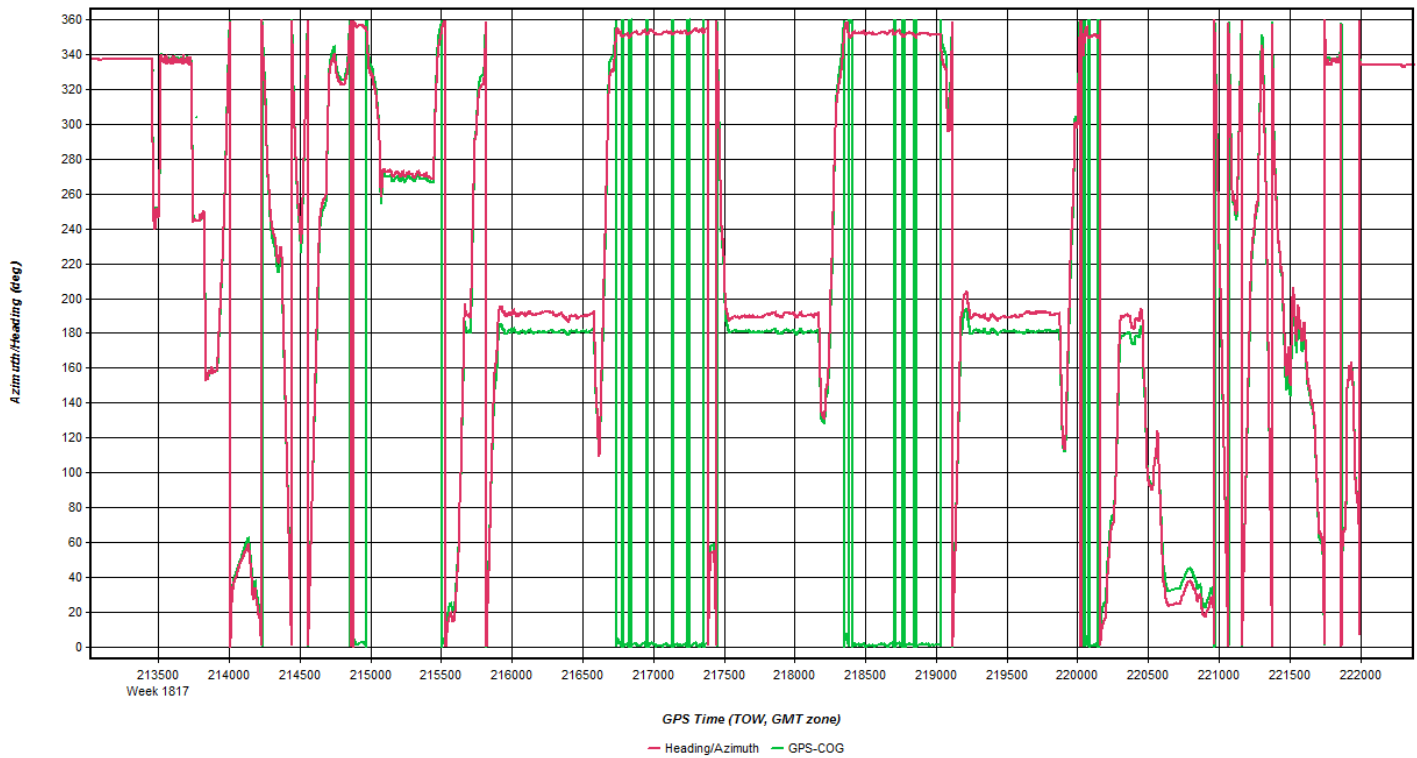
OK Cancel

Nov 4, 2014-C (7121)









Base Station Log

Coordinate/Antenna Settings

Master Remote

Base Station
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Coordinates
 Latitude: North 44 39 01.91729 Compute from PPP
 Longitude: West 73 27 30.70400 Enter Grid Values
 Ellipsoidal height: 20.665 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

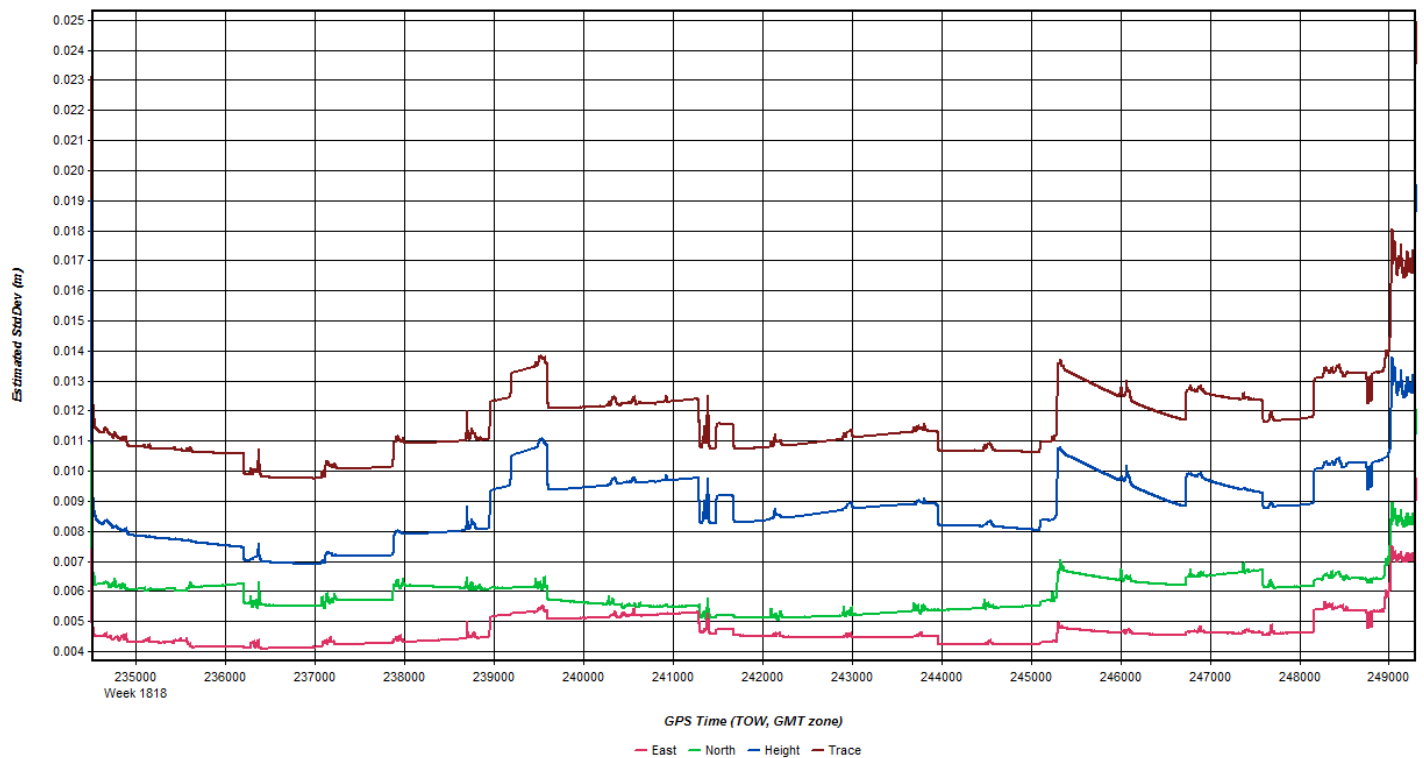
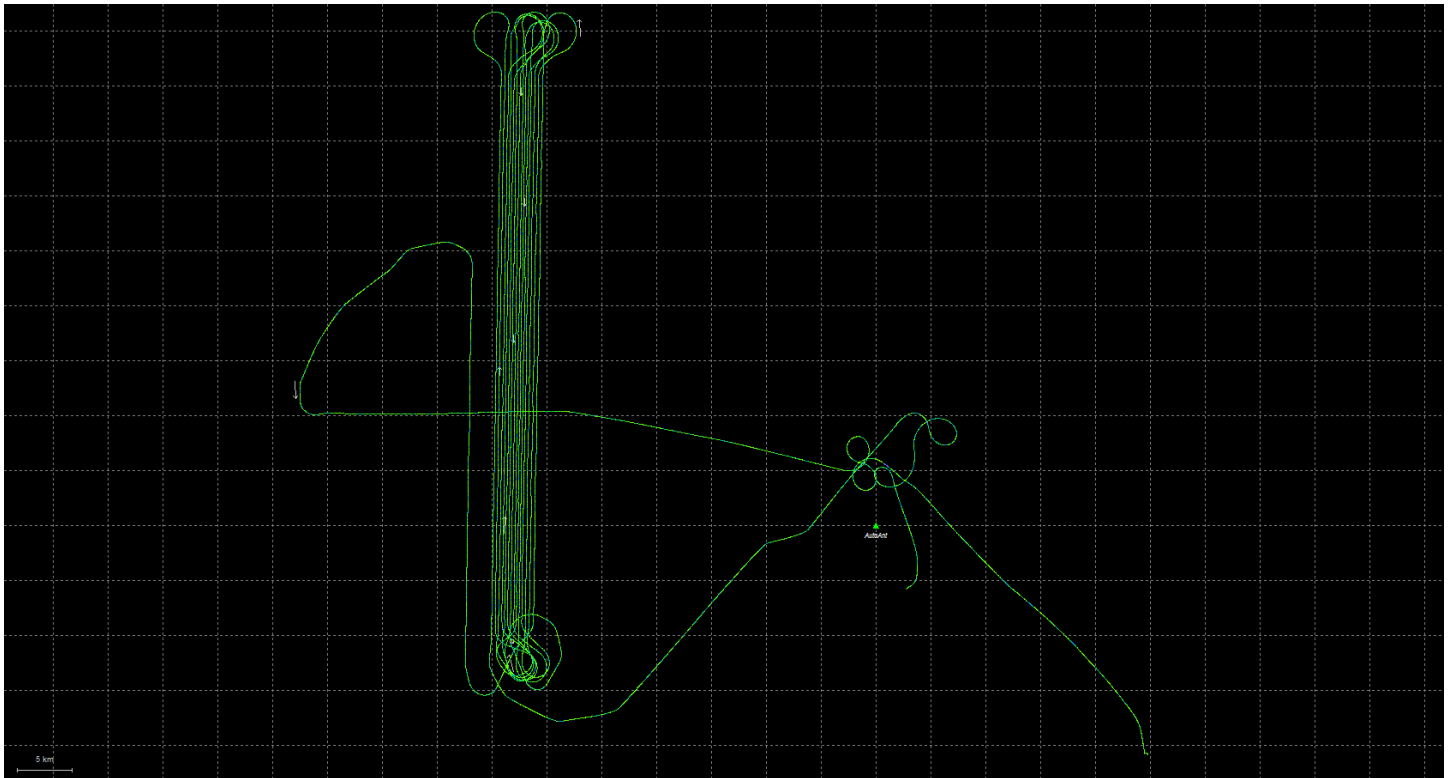
Antenna Height
 From station file: True-vert, HI View STA File
 Antenna profile: TRM41249.00, TZGD Info

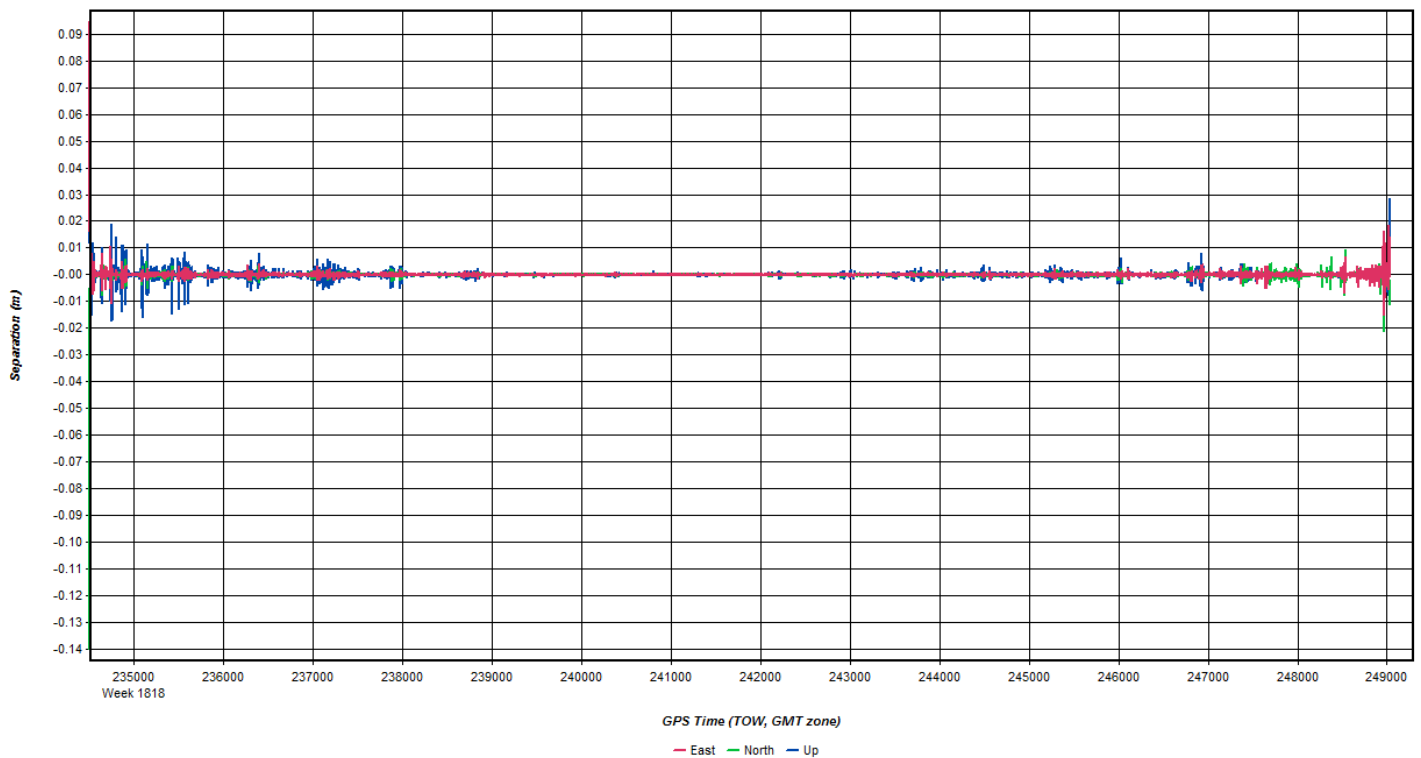
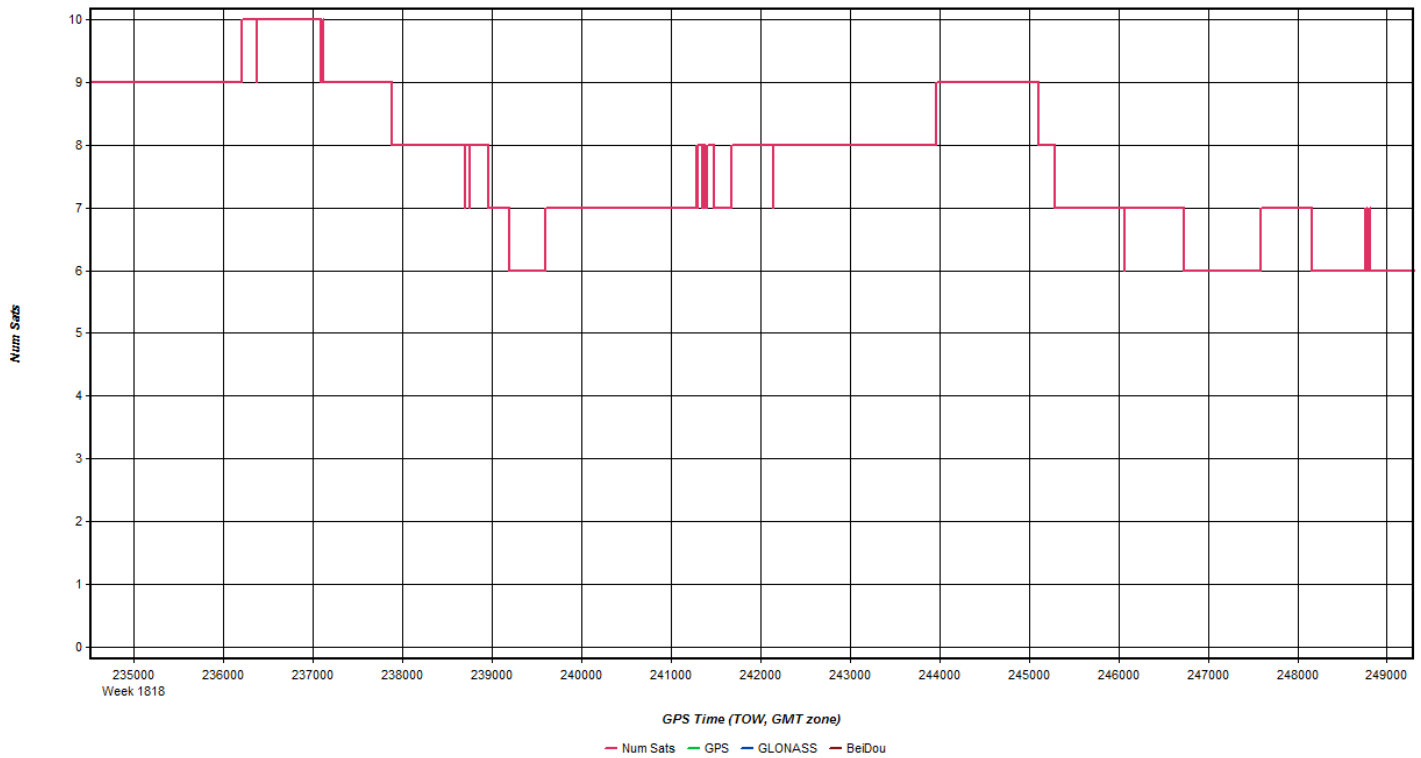
Measured height: 2.000 m
 ARP to L1 offset: 0.055 m
 Applied height: 2.055 m

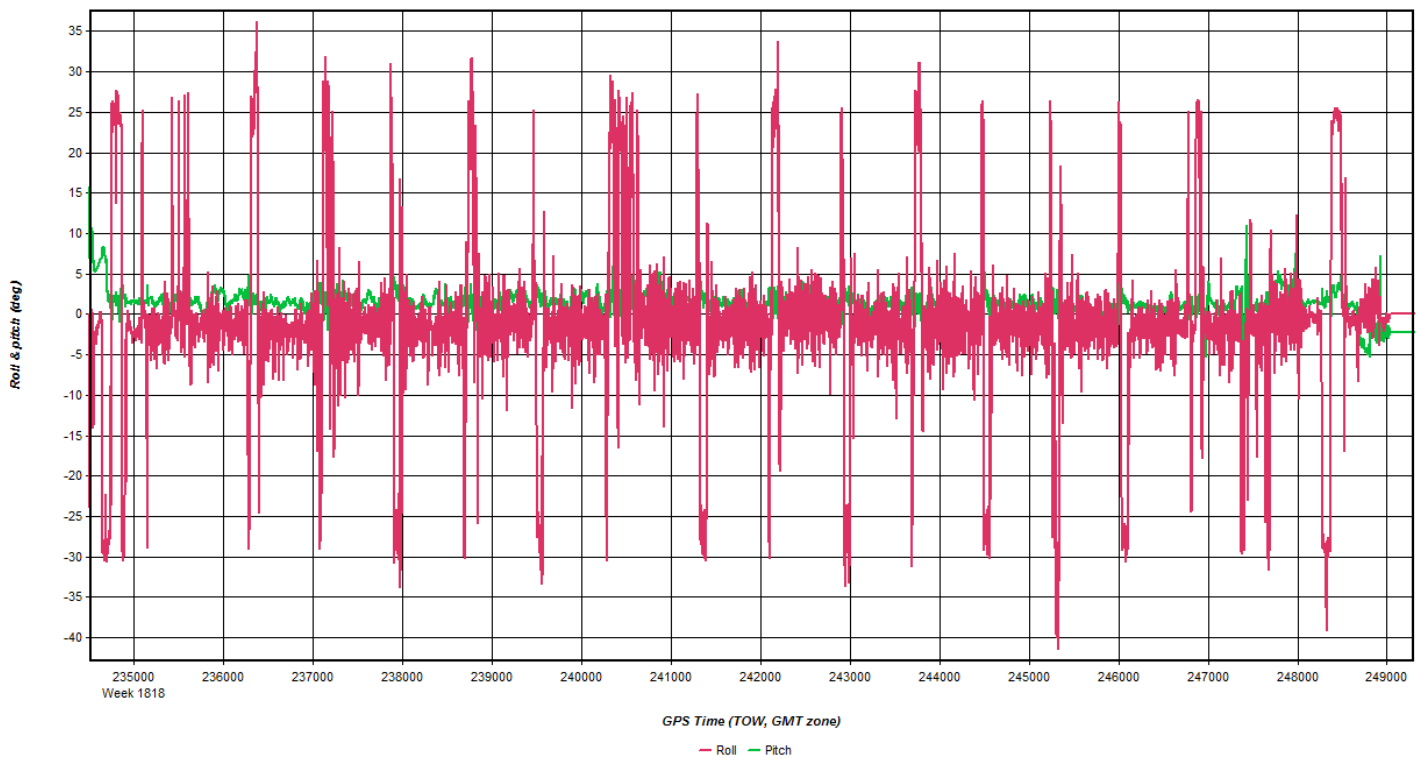
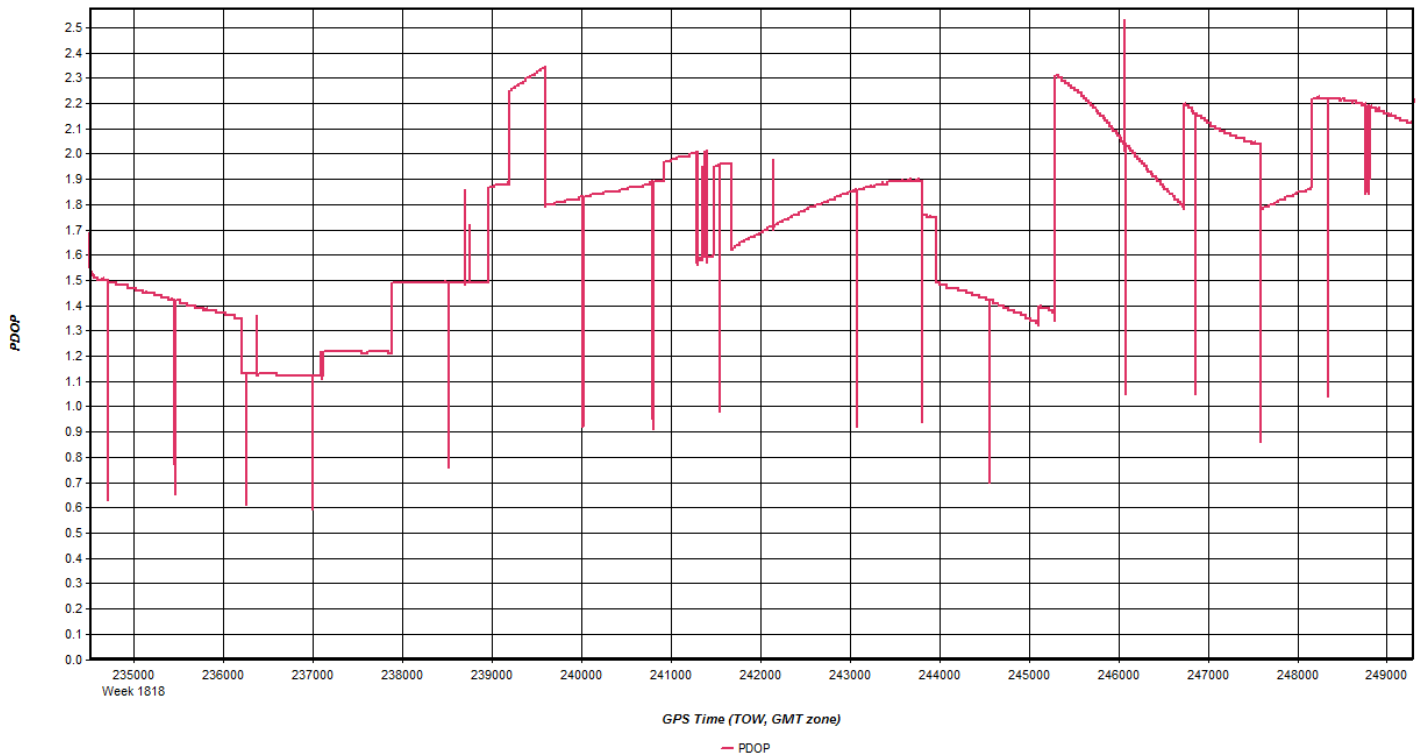
Measured to
☒ ARP
☐ L1 Phase Centre
 Compute From Slant

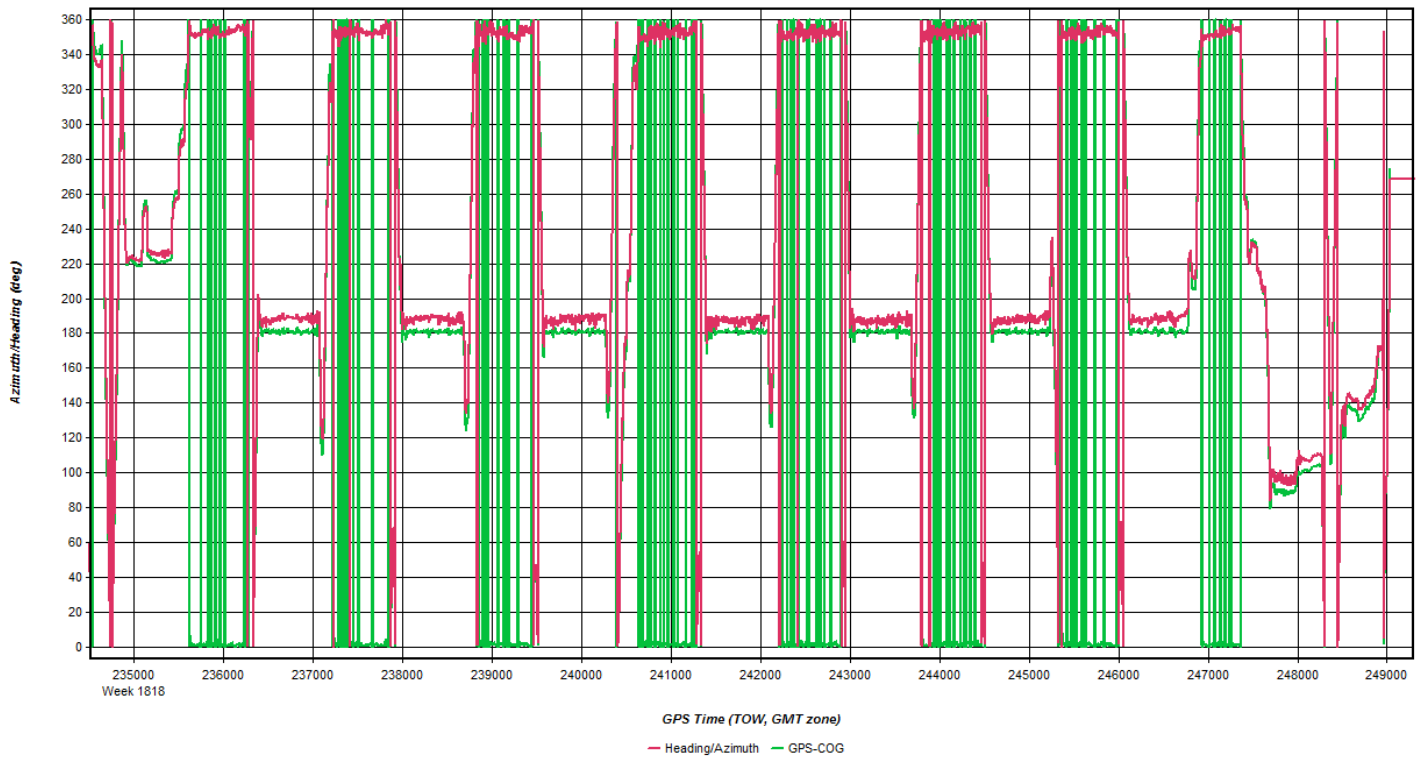
OK Cancel

Nov 11, 2014-A (7121)









Base Station Log

Coordinate/Antenna Settings

Master Remote

Base Station
 1: AutoAnt Name: AutoAnt ☐ Disabled
 File: D:\Raw\23902_NY_Clinton_Essex_Lake_Champlain\Recieved_1

Coordinates
 Latitude: North 44 39 01.91729 Compute from PPP
 Longitude: West 73 27 30.70400 Enter Grid Values
 Ellipsoidal height: 20.665 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

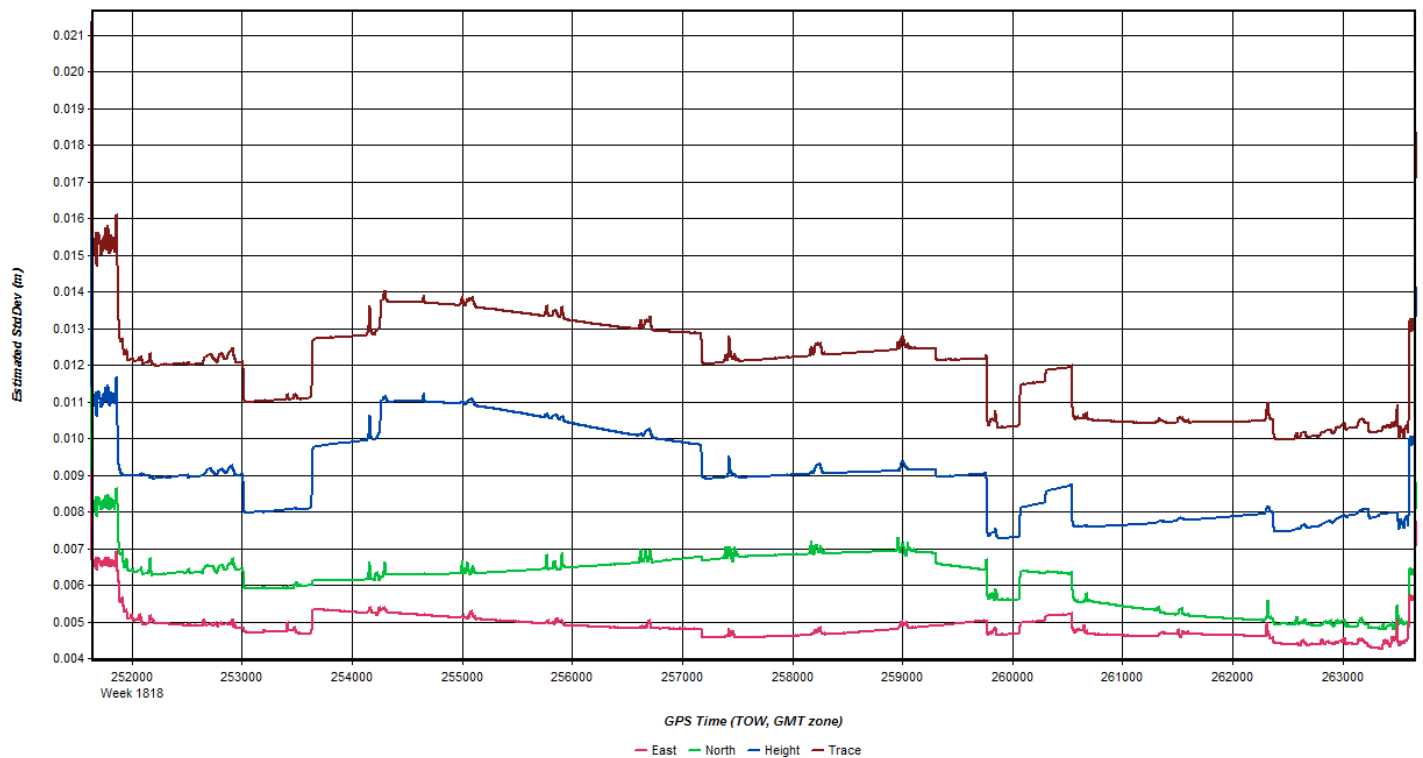
Antenna Height
 From station file: True-vert, HI View STA File
 Antenna profile: TRM41249.00, TZGD Info

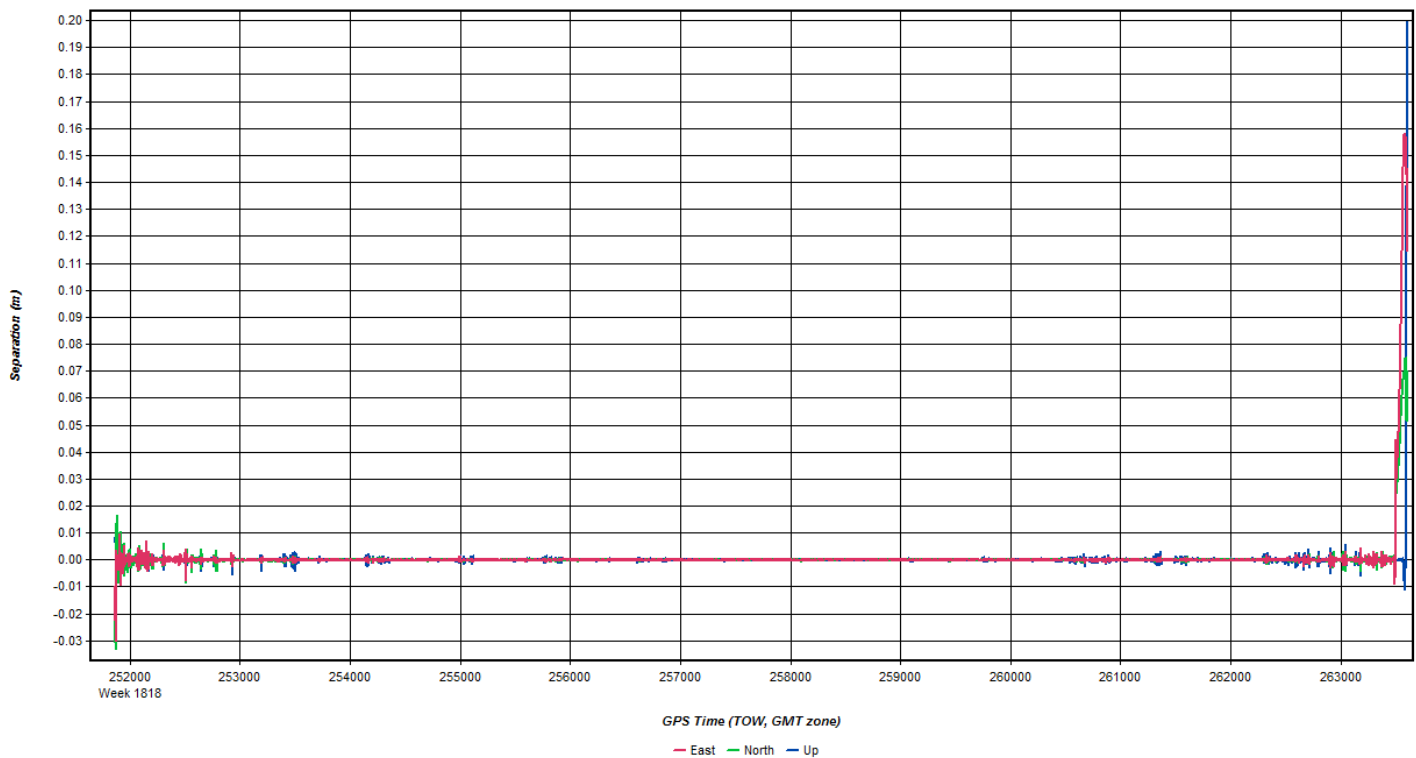
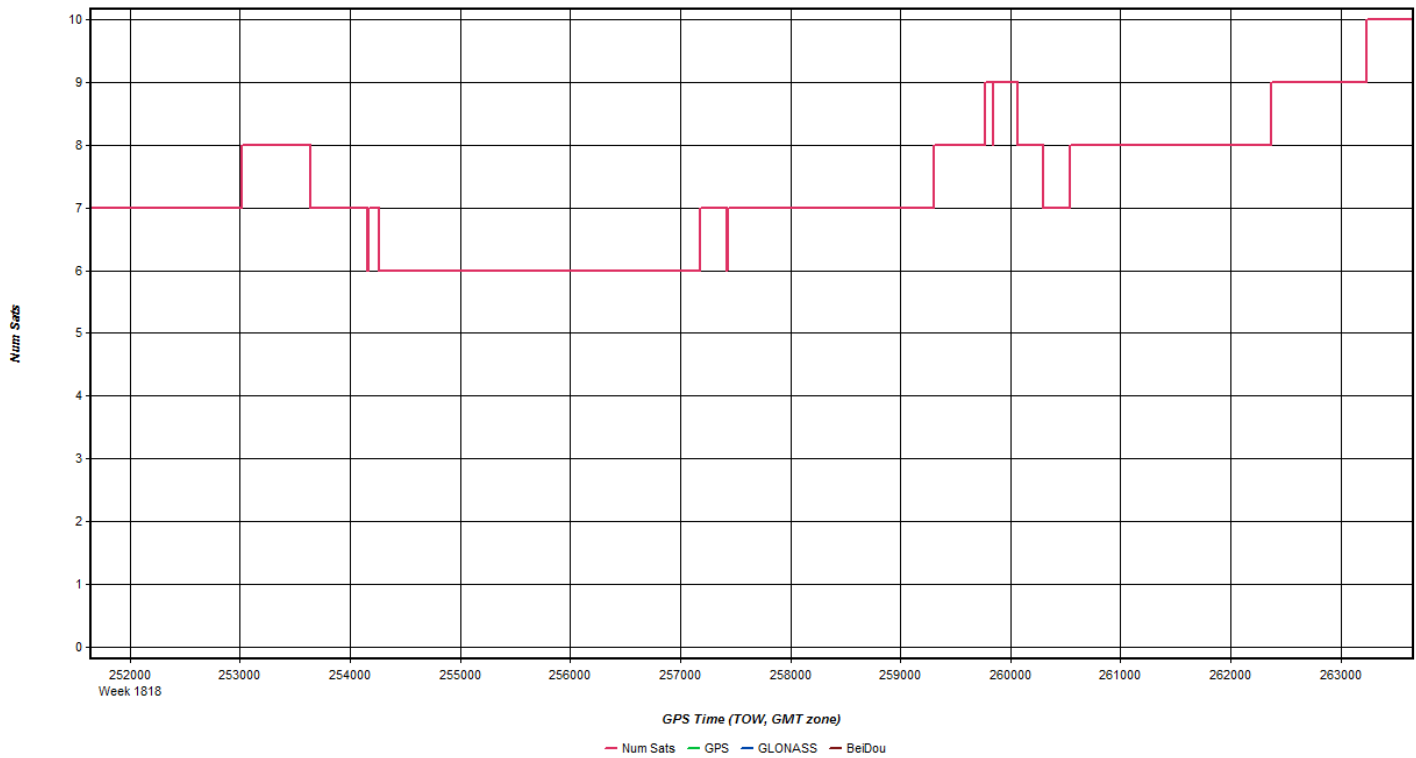
Measured height: 2.000 m
 ARP to L1 offset: 0.055 m
 Applied height: 2.055 m

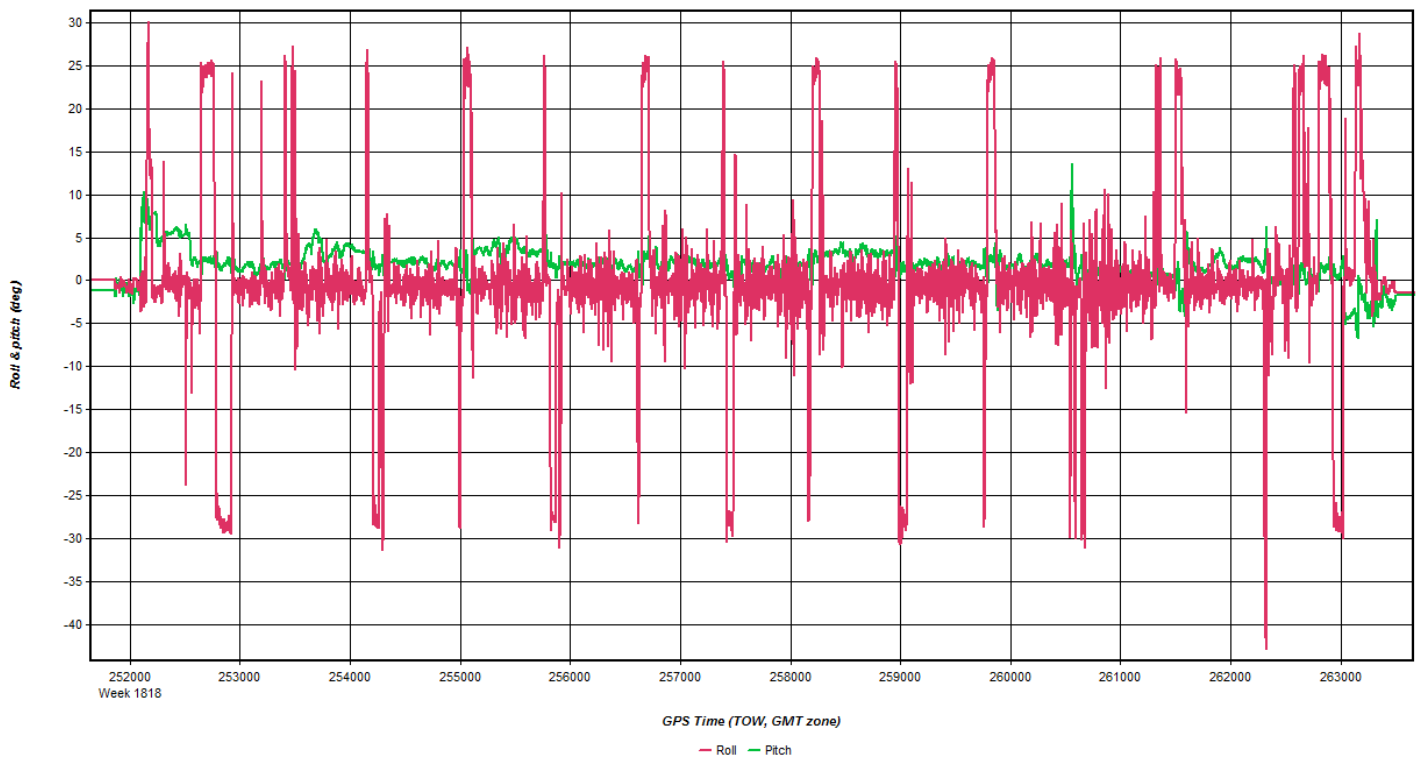
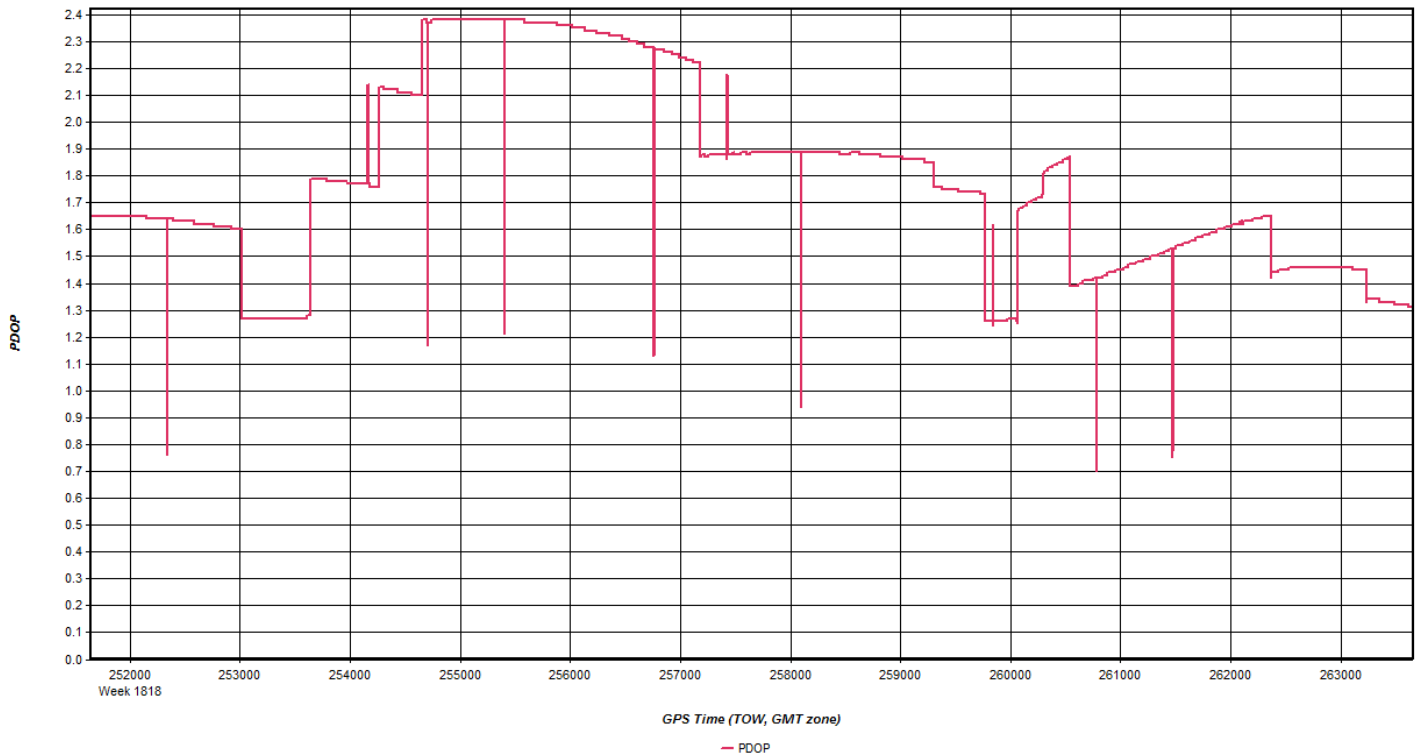
Measured to
☒ ARP
☐ L1 Phase Centre
 Compute From Slant

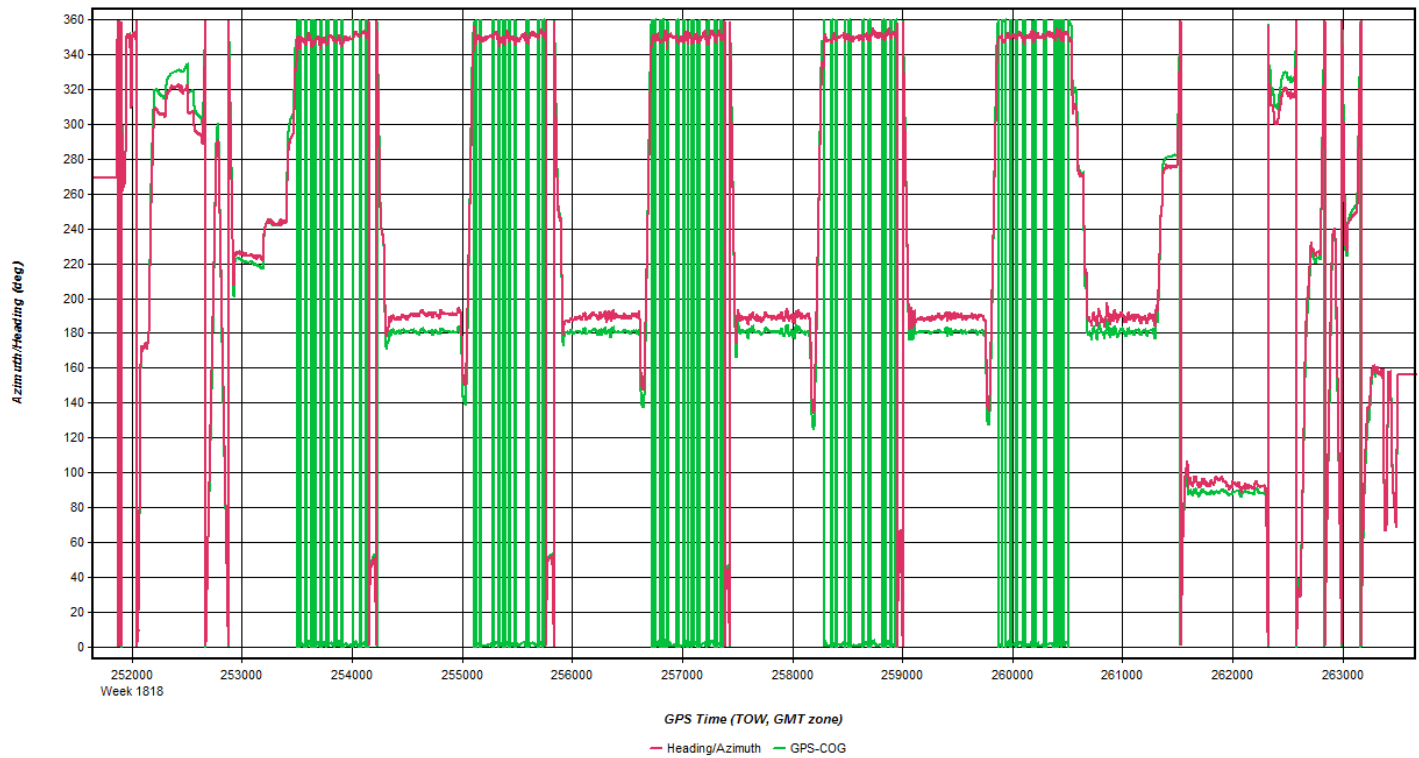
OK Cancel

Nov 11, 2014-B (7121)









Base Station Log

Coordinate/Antenna Settings

Master Remote

Base Station
 1: AutoAnt Name: AutoAnt ☐ Disabled
 File: D:\Raw\23902_NY_Clinton_Essex_Lake_Champlain\Recieved_1

Coordinates
 Latitude: North 44 39 01.91729 Compute from PPP
 Longitude: West 73 27 30.70400 Enter Grid Values
 Ellipsoidal height: 20.665 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

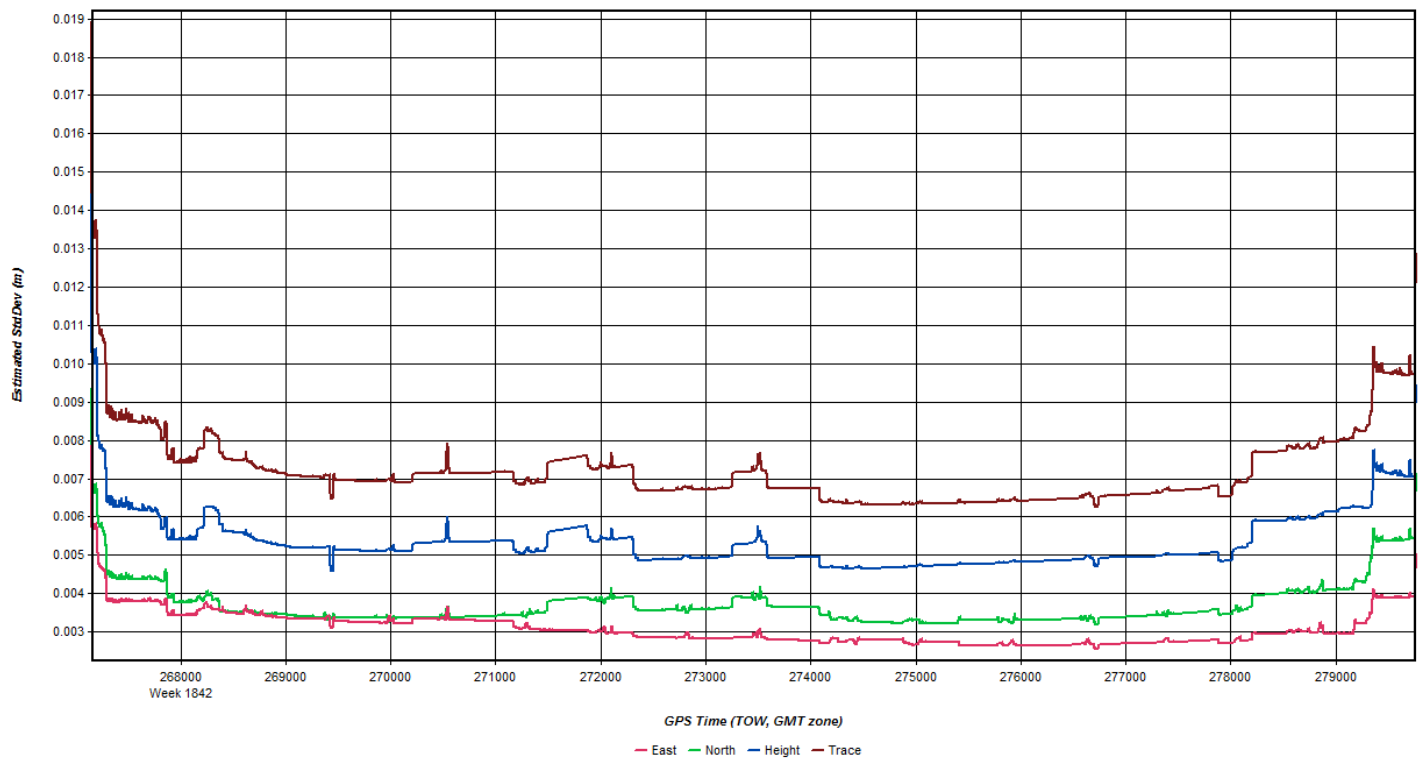
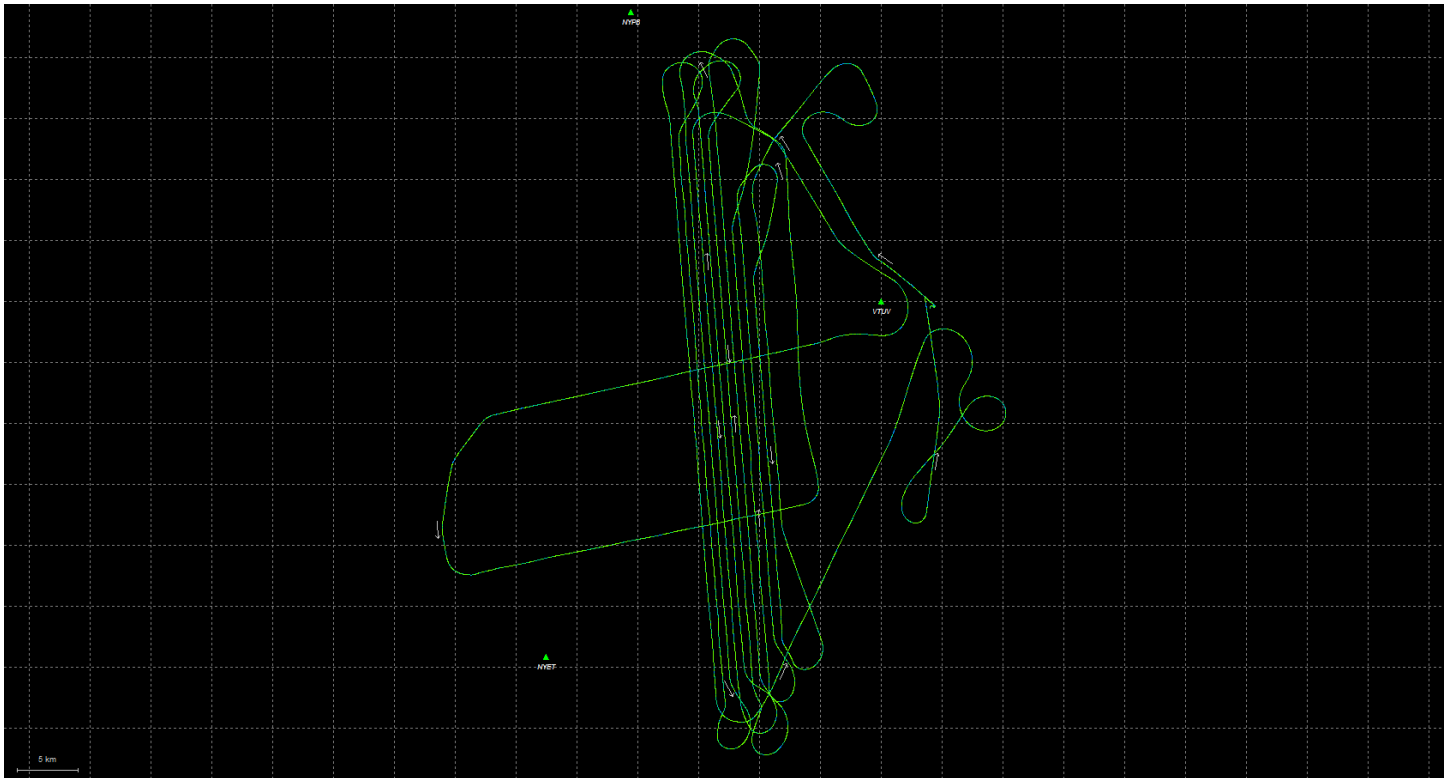
Antenna Height
 From station file: True-vert, HI View STA File
 Antenna profile: TRM41249.00, TZGD Info

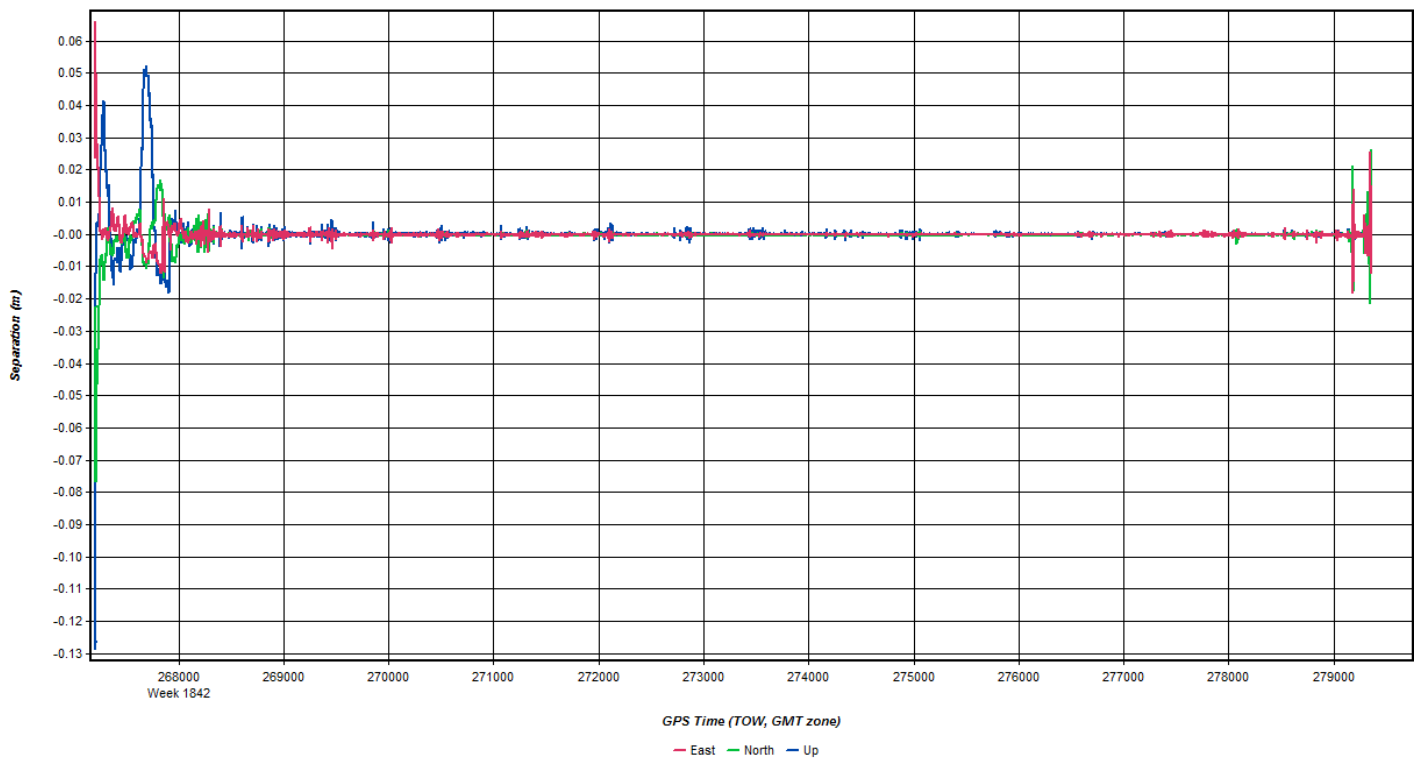
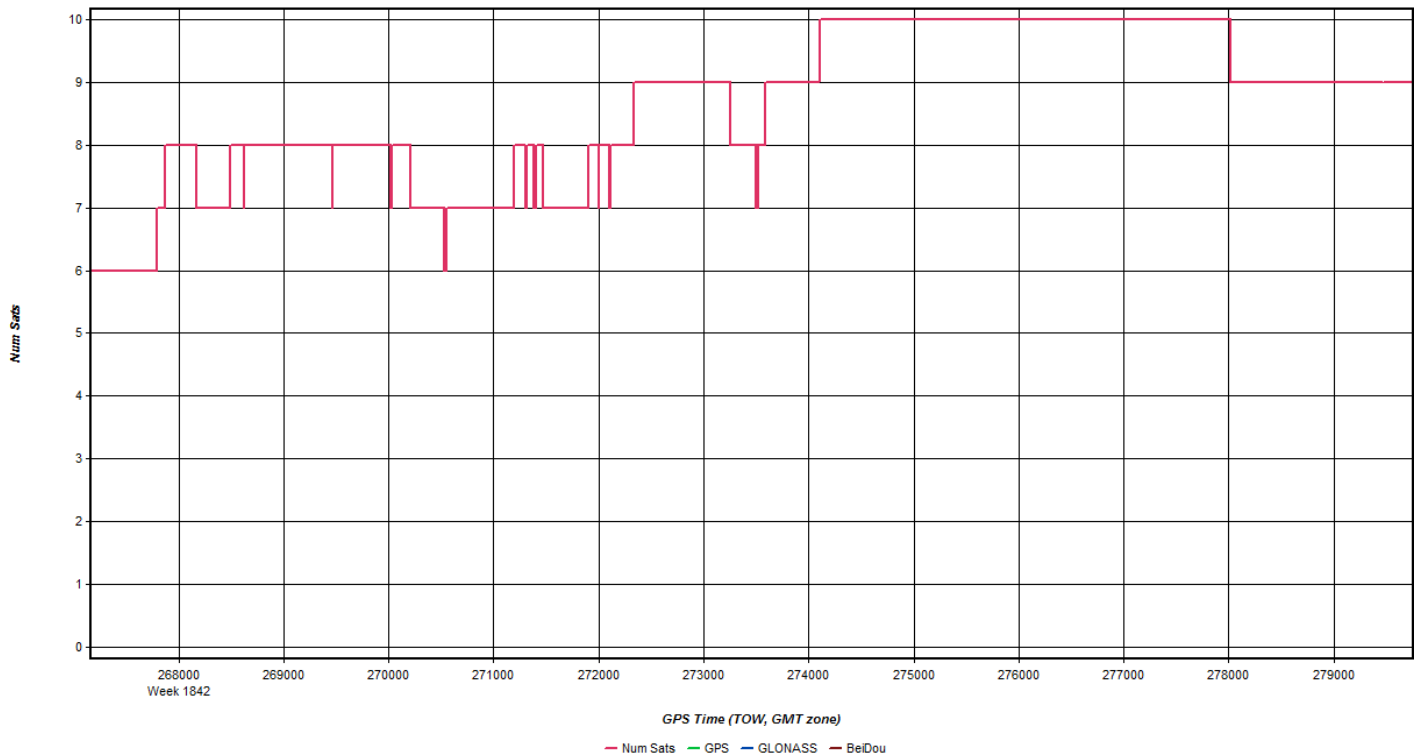
Measured height: 2.000 m
 ARP to L1 offset: 0.055 m
 Applied height: 2.055 m

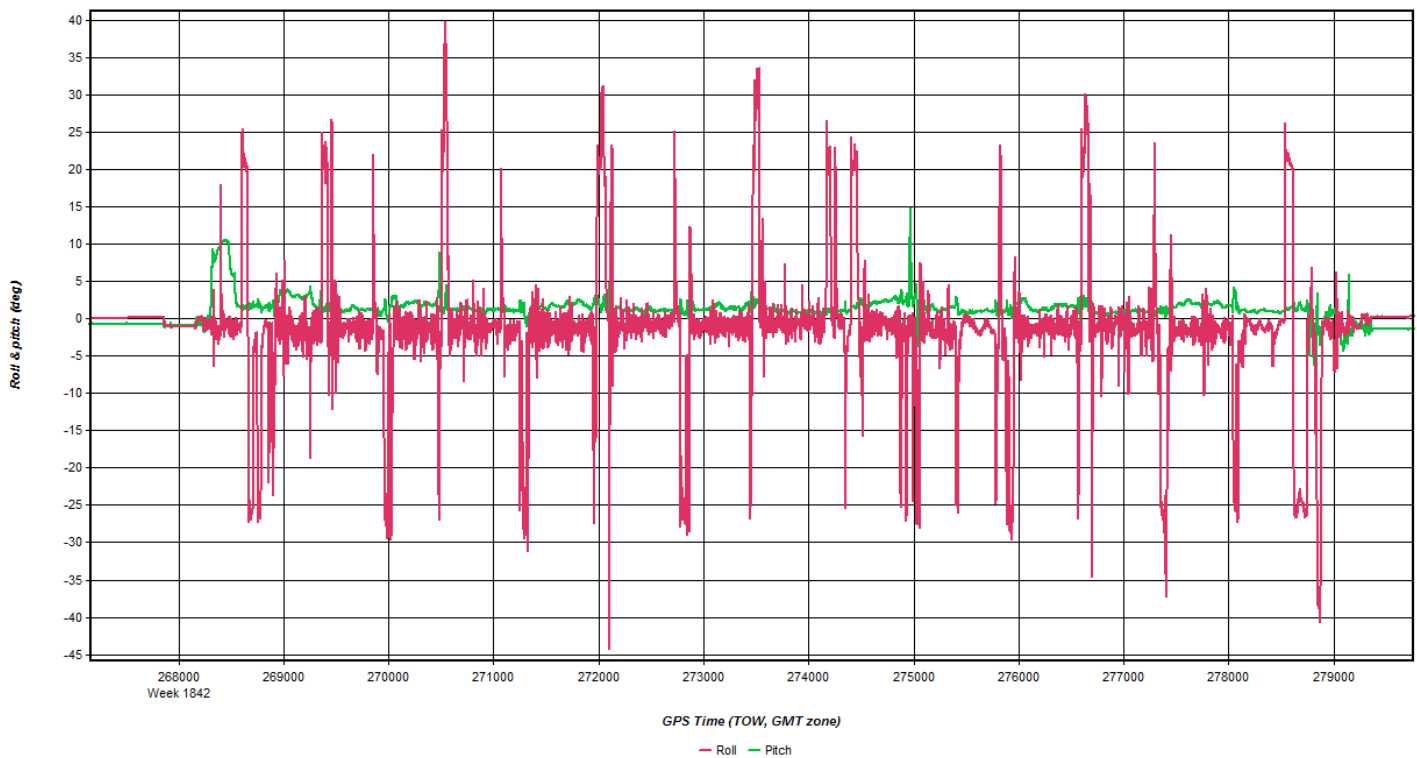
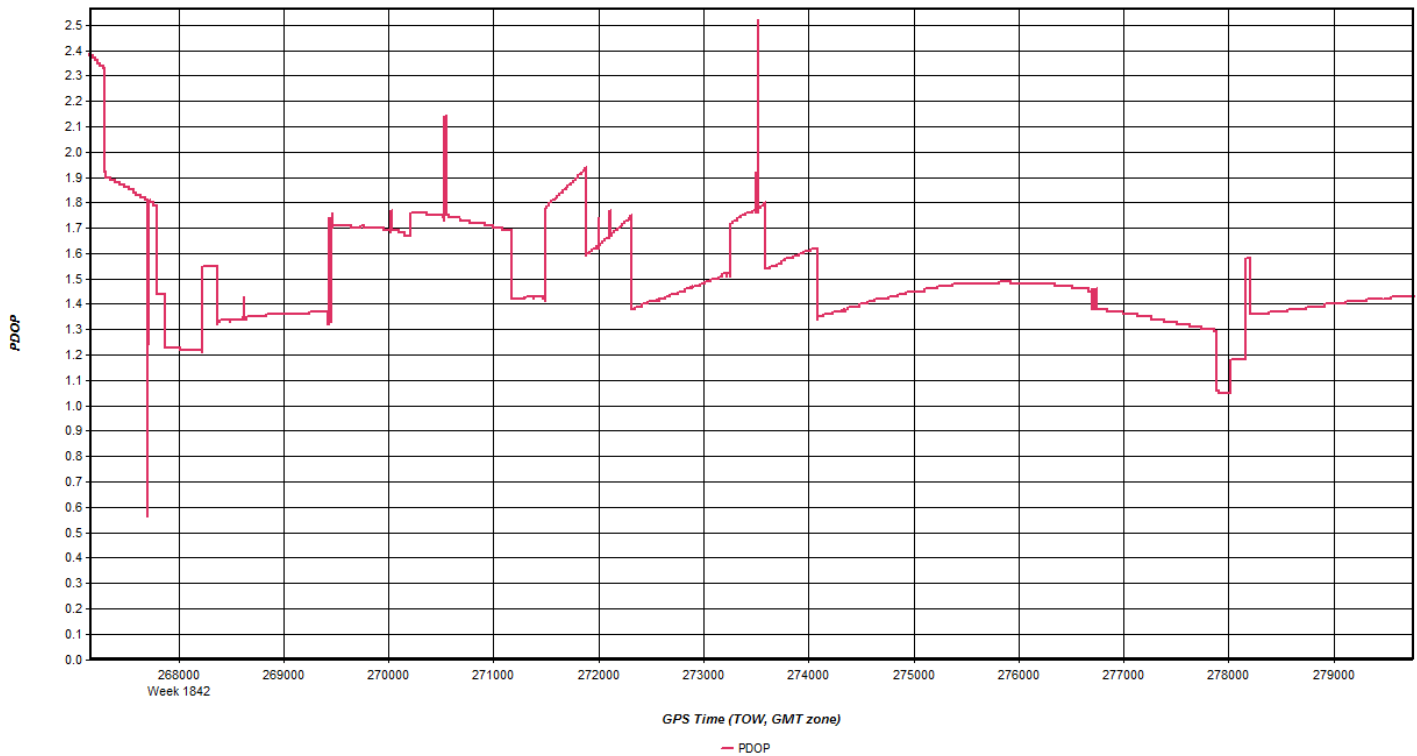
Measured to
☒ ARP
☐ L1 Phase Centre
 Compute From Slant

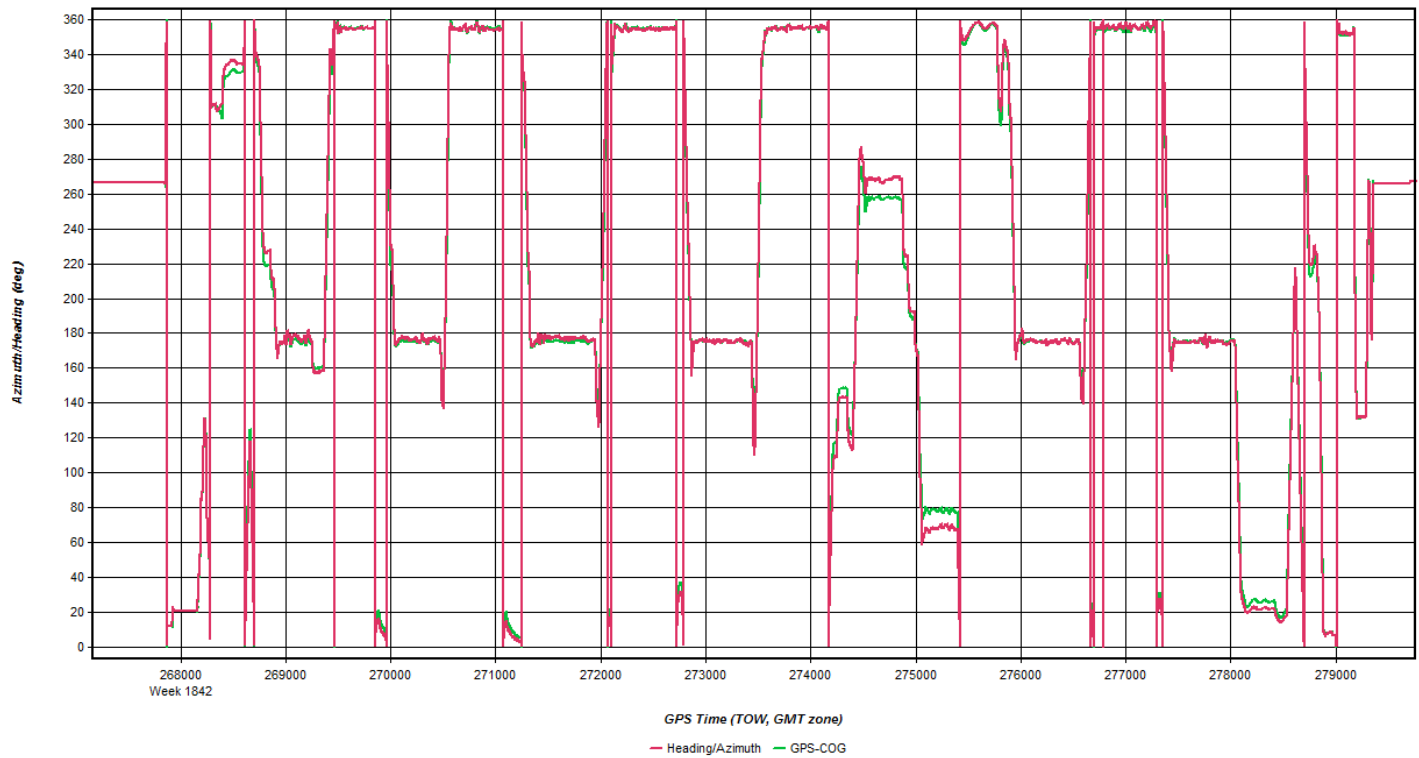
OK Cancel

Apr 29, 2015-A (7121)









Base Station Log

Coordinate/Antenna Settings

Master Remote

Base Station
3: NYET Name: NYET ☐ Disabled
File: D:\Proc\From_Kucera\rawlaser\20150429_020900\GW_Proc_4-

Coordinates
Latitude: North 44 12 34.85080 Compute from PPP
Longitude: West 73 32 25.85231 Enter Grid Values
Ellipsoidal height: 174.246 m Enter MSL Height
Datum: NAD83(2011) Datum Options
Select From Favorites Add To Favorites Use Average Position

Antenna Height
From station file: LEIAT504, LEIS View STA File
Antenna profile: LEIAT504, LEIS Info
Measured height: 0.000 m
ARP to L1 offset: 0.088 m
Applied height: 0.088 m
Measured to
☒ ARP
☐ L1 Phase Centre
Compute From Slant

OK Cancel

Coordinate/Antenna Settings

Master Remote

Base Station
2: NYPB Name: NYPB ☐ Disabled
File: D:\Proc\From_Kucera\rawlaser\20150429_020900\GW_Proc_4-

Coordinates
Latitude: North 44 40 50.58254 Compute from PPP
Longitude: West 73 27 14.30528 Enter Grid Values
Ellipsoidal height: 30.150 m Enter MSL Height
Datum: NAD83(2011) Datum Options
Select From Favorites Add To Favorites Use Average Position

Antenna Height
From station file: LEIAT504, LEIS View STA File
Antenna profile: LEIAT504, LEIS Info
Measured height: 0.000 m
ARP to L1 offset: 0.088 m
Applied height: 0.088 m
Measured to
☒ ARP
☐ L1 Phase Centre
Compute From Slant

OK Cancel

Coordinate/Antenna Settings

Master Remote

Base Station
 1: VTUV Name: VTUV ☐ Disabled
 File: D:\Proc\From_Kucera\rawlaser\20150429_020900\GW_Proc_4-

Coordinates
 Latitude: North 44 28 09.21279 Compute from PPP
 Longitude: West 73 11 52.37575 Enter Grid Values
 Ellipsoidal height: 112.410 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

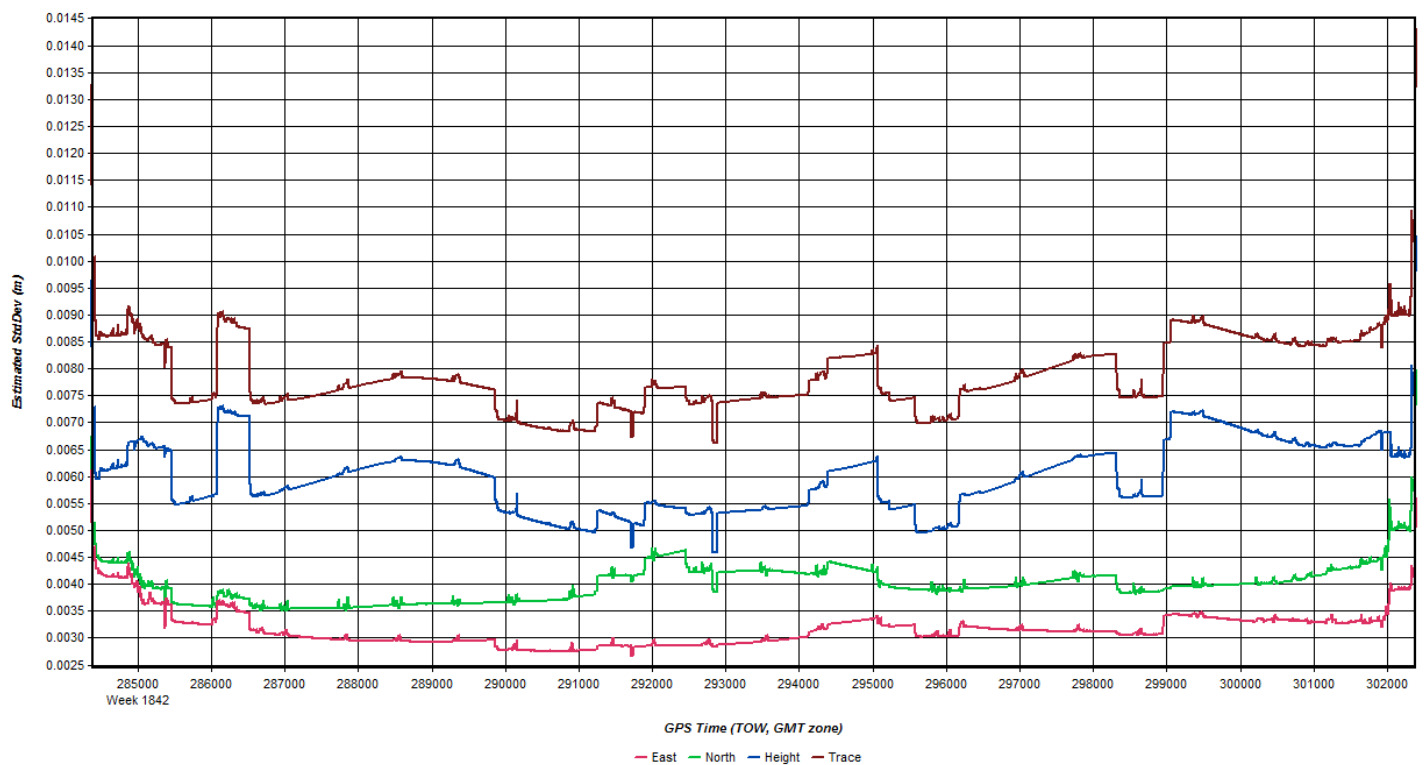
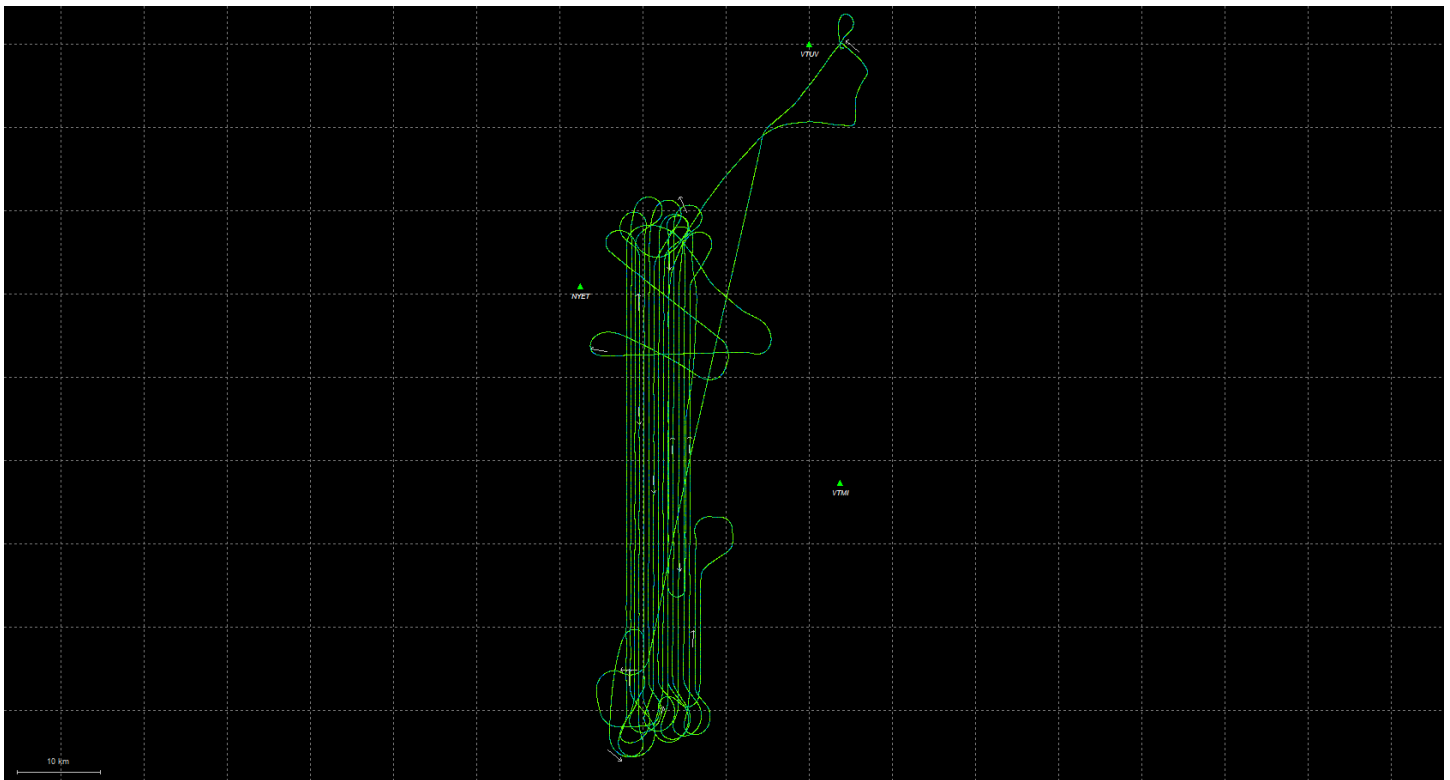
Antenna Height
 From station file: TRM41249.00, TZGD View STA File
 Antenna profile: TRM41249.00, TZGD Info

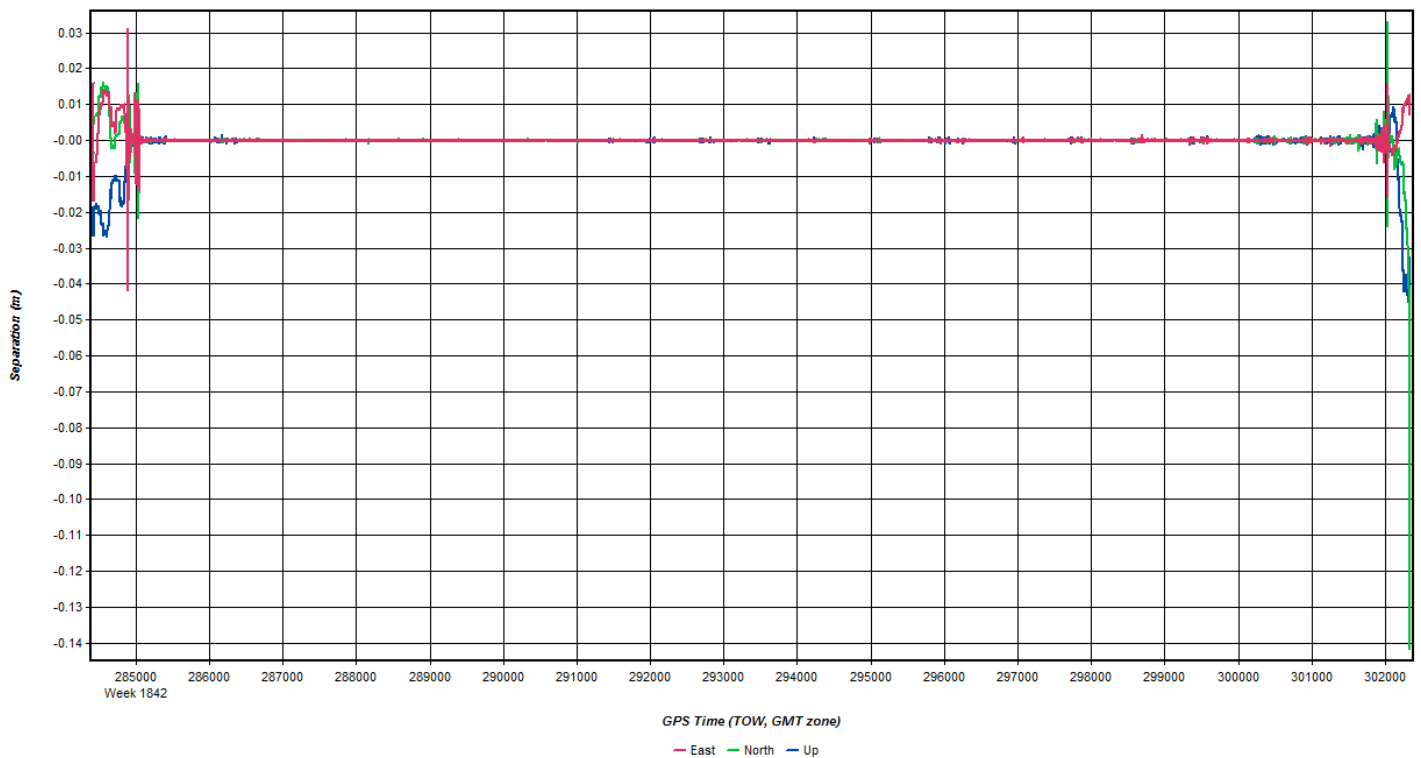
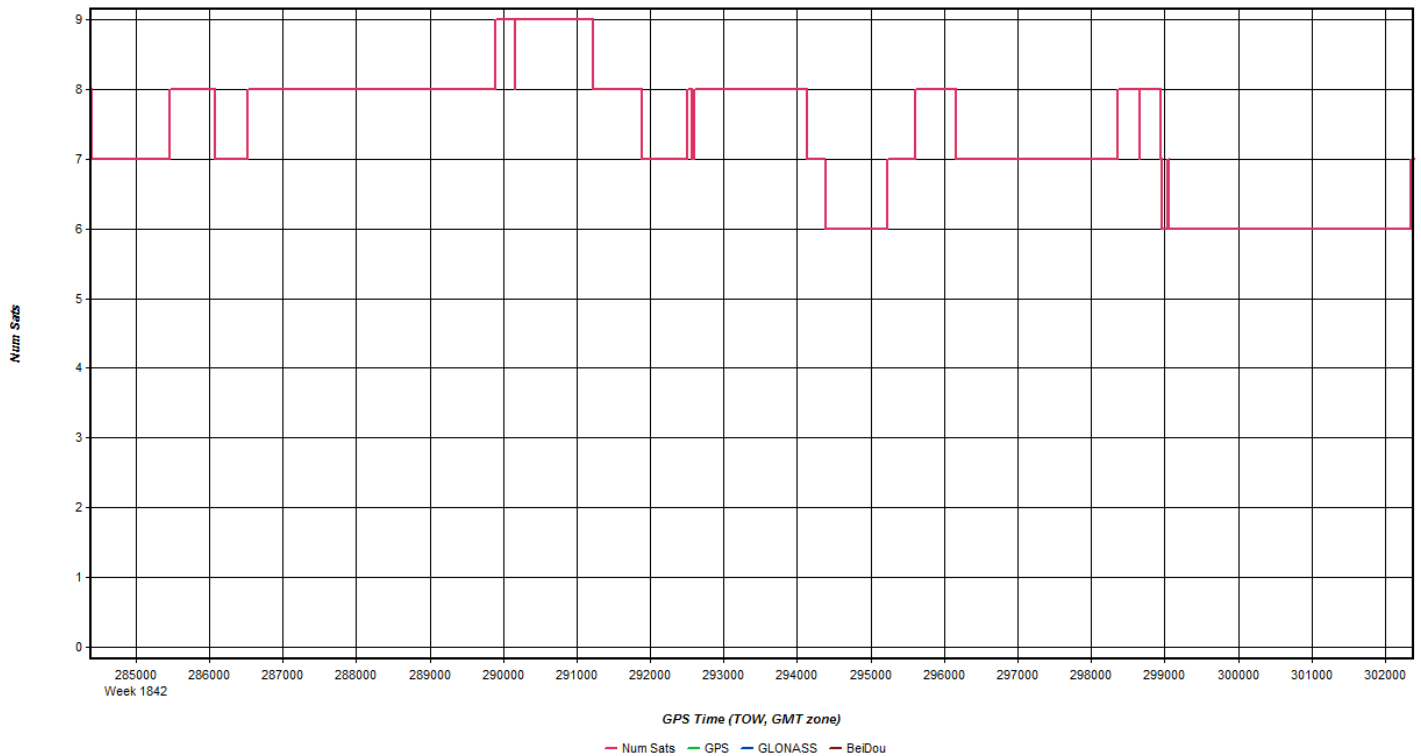
Measured height: 0.000 m
 ARP to L1 offset: 0.055 m
 Applied height: 0.055 m

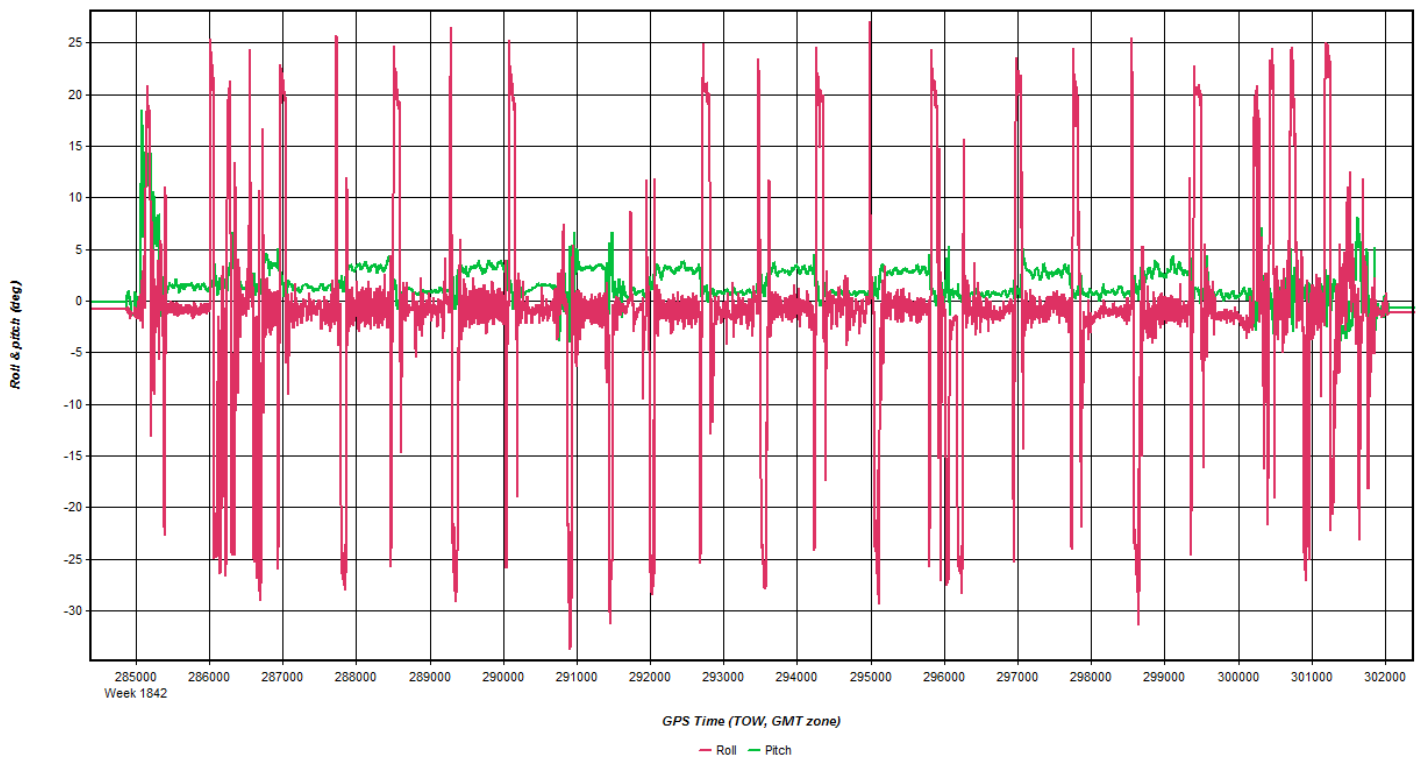
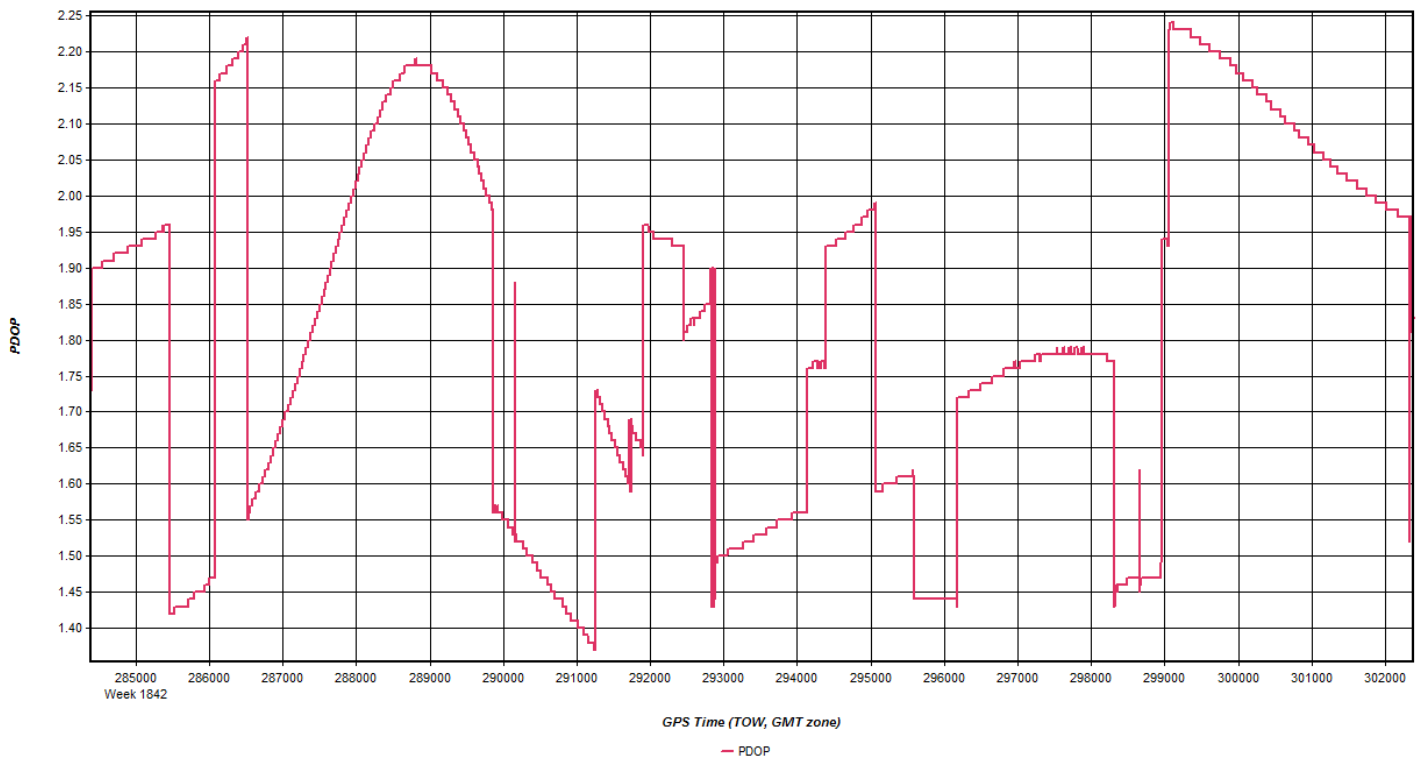
Measured to
☒ ARP
☐ L1 Phase Centre
 Compute From Slant

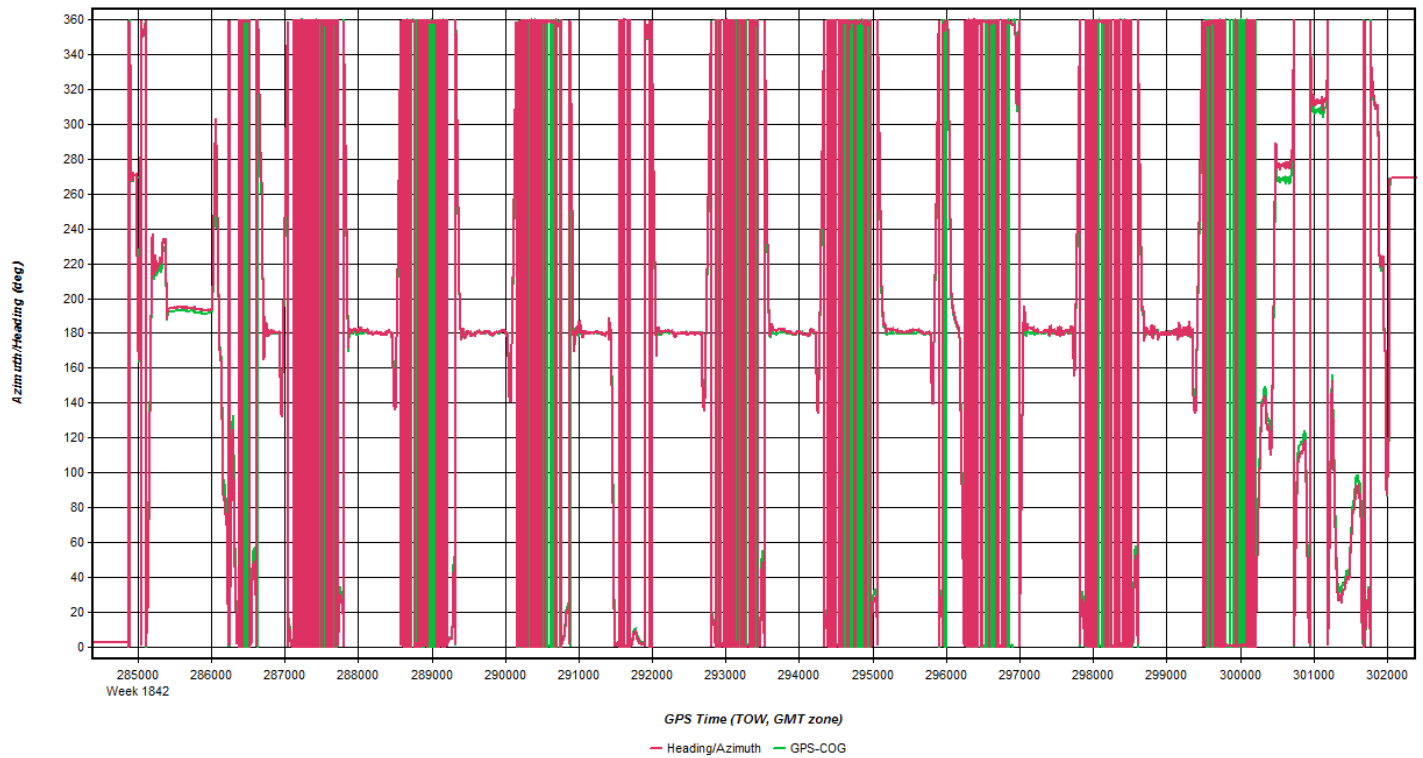
OK Cancel

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Base Station Log

Coordinate/Antenna Settings

Master Remote

Base Station
3: NYET Name: NYET ☐ Disabled
File: D:\Proc\From_Kucera\rawlaser\20150429_065536\GW_Proc_4-

Coordinates
Latitude: North 44 12 34.85080 Compute from PPP
Longitude: West 73 32 25.85231 Enter Grid Values
Ellipsoidal height: 174.246 m Enter MSL Height
Datum: NAD83(2011) Datum Options
Select From Favorites Add To Favorites Use Average Position

Antenna Height
From station file: LEIAT504, LEIS View STA File
Antenna profile: LEIAT504, LEIS Info
Measured height: 0.000 m
ARP to L1 offset: 0.088 m
Applied height: 0.088 m
Measured to
☒ ARP
☐ L1 Phase Centre
Compute From Slant

OK Cancel

Coordinate/Antenna Settings

Master Remote

Base Station
2: VTMI Name: VTMI ☐ Disabled
File: D:\Proc\From_Kucera\rawlaser\20150429_065536\GW_Proc_4-

Coordinates
Latitude: North 43 59 55.02507 Compute from PPP
Longitude: West 73 09 09.38024 Enter Grid Values
Ellipsoidal height: 96.027 m Enter MSL Height
Datum: NAD83(2011) Datum Options
Select From Favorites Add To Favorites Use Average Position

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

OK Cancel

Coordinate/Antenna Settings

Master Remote

Base Station
 1: VTUV Name: VTUV ☐ Disabled
 File: D:\Proc\From_Kucera\rawlaser\20150429_065536\GW_Proc_4-

Coordinates
 Latitude: North 44 28 09.21279 Compute from PPP
 Longitude: West 73 11 52.37575 Enter Grid Values
 Ellipsoidal height: 112.410 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

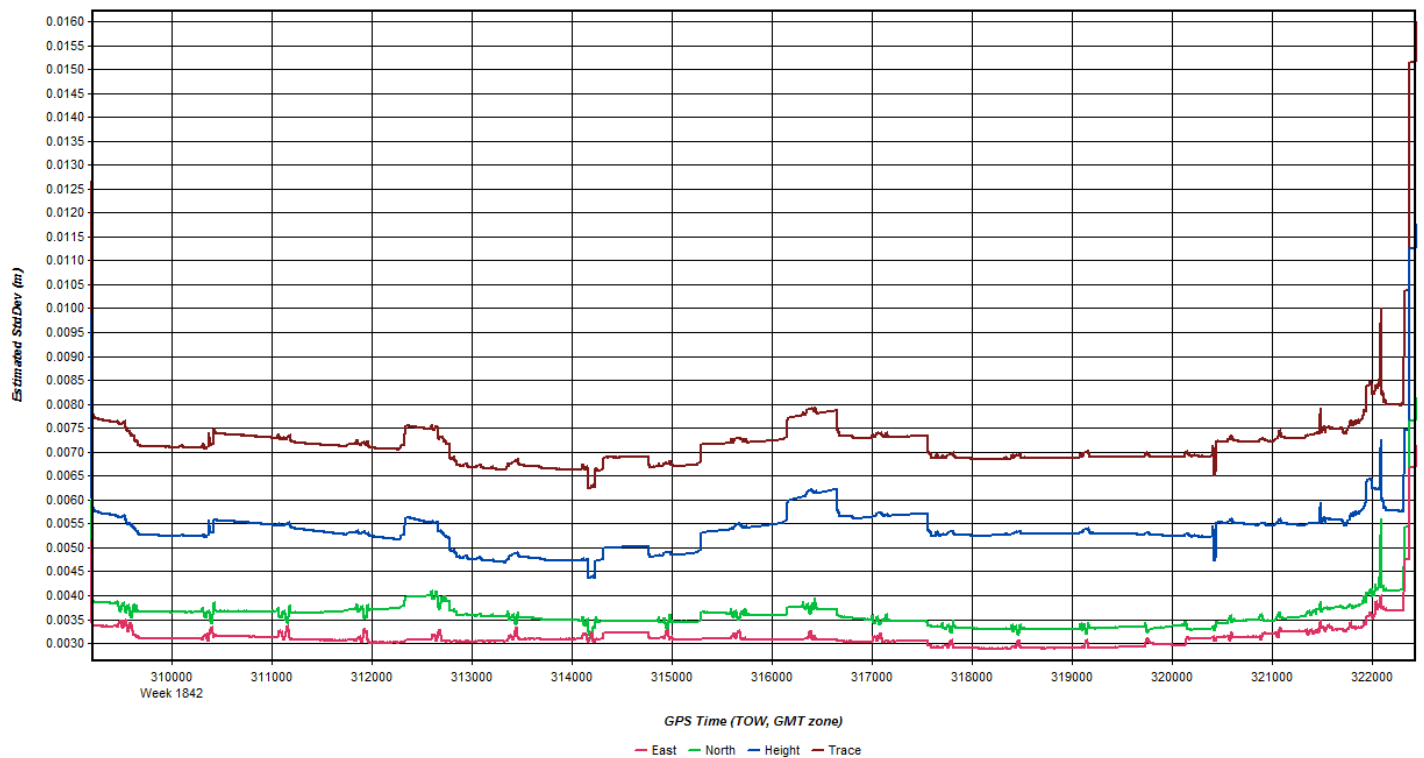
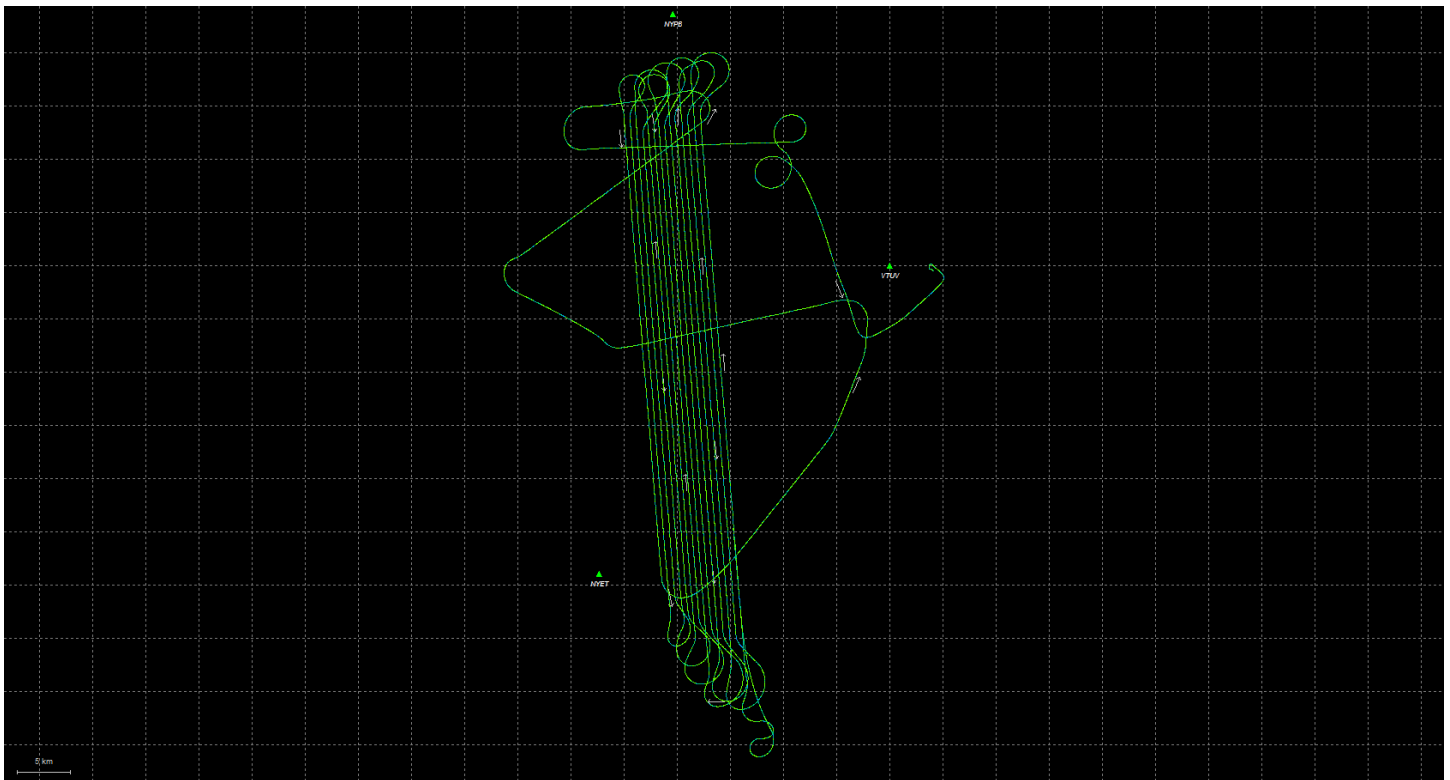
Antenna Height
 From station file: TRM41249.00, TZGD View STA File
 Antenna profile: TRM41249.00, TZGD Info

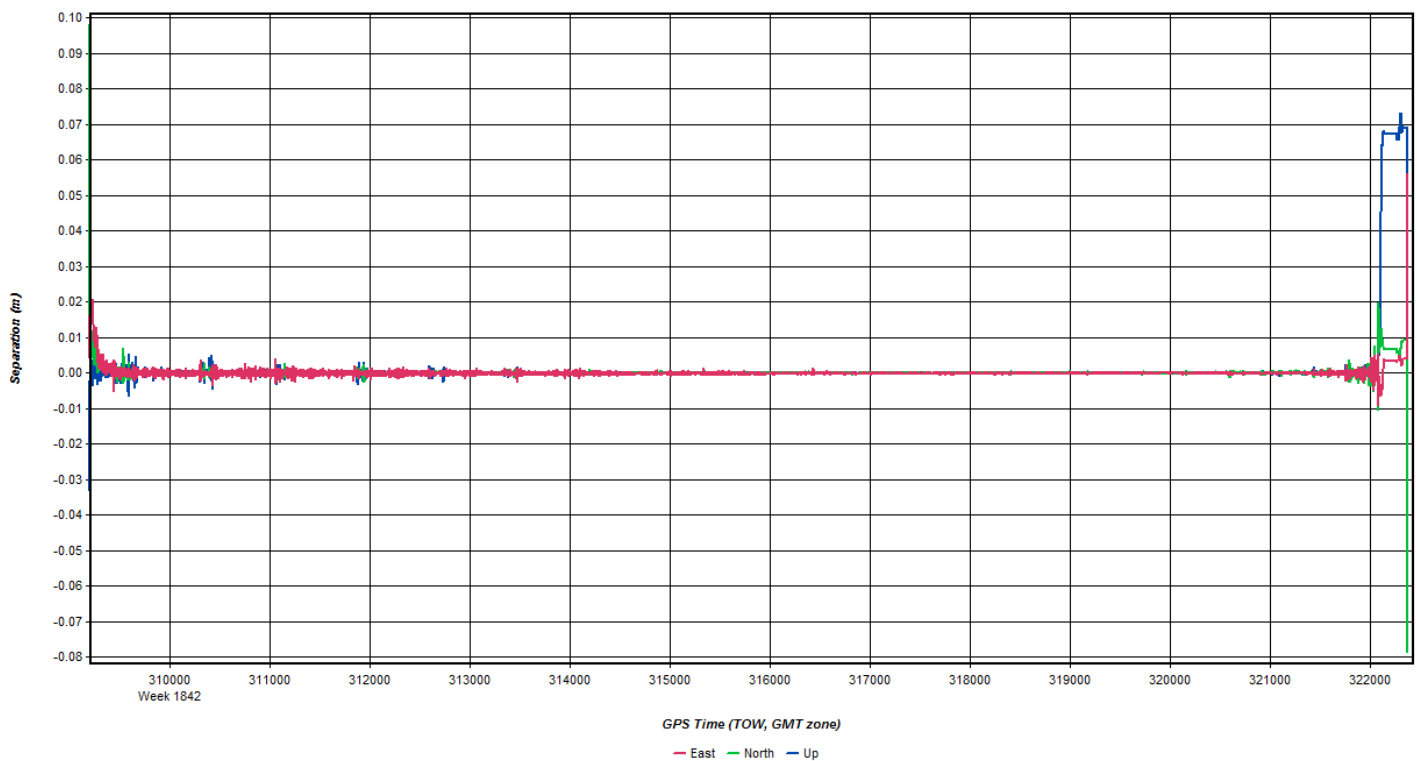
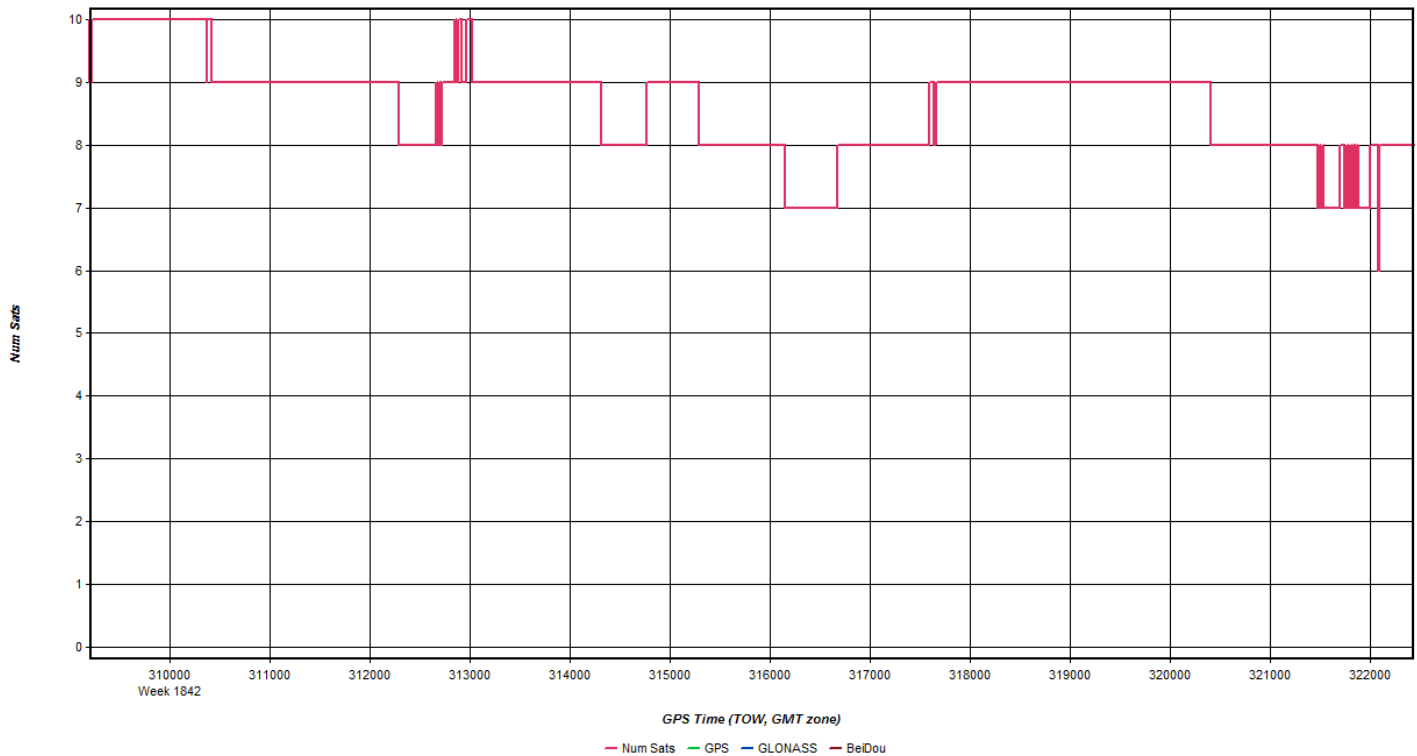
Measured height: 0.000 m
 ARP to L1 offset: 0.055 m
 Applied height: 0.055 m

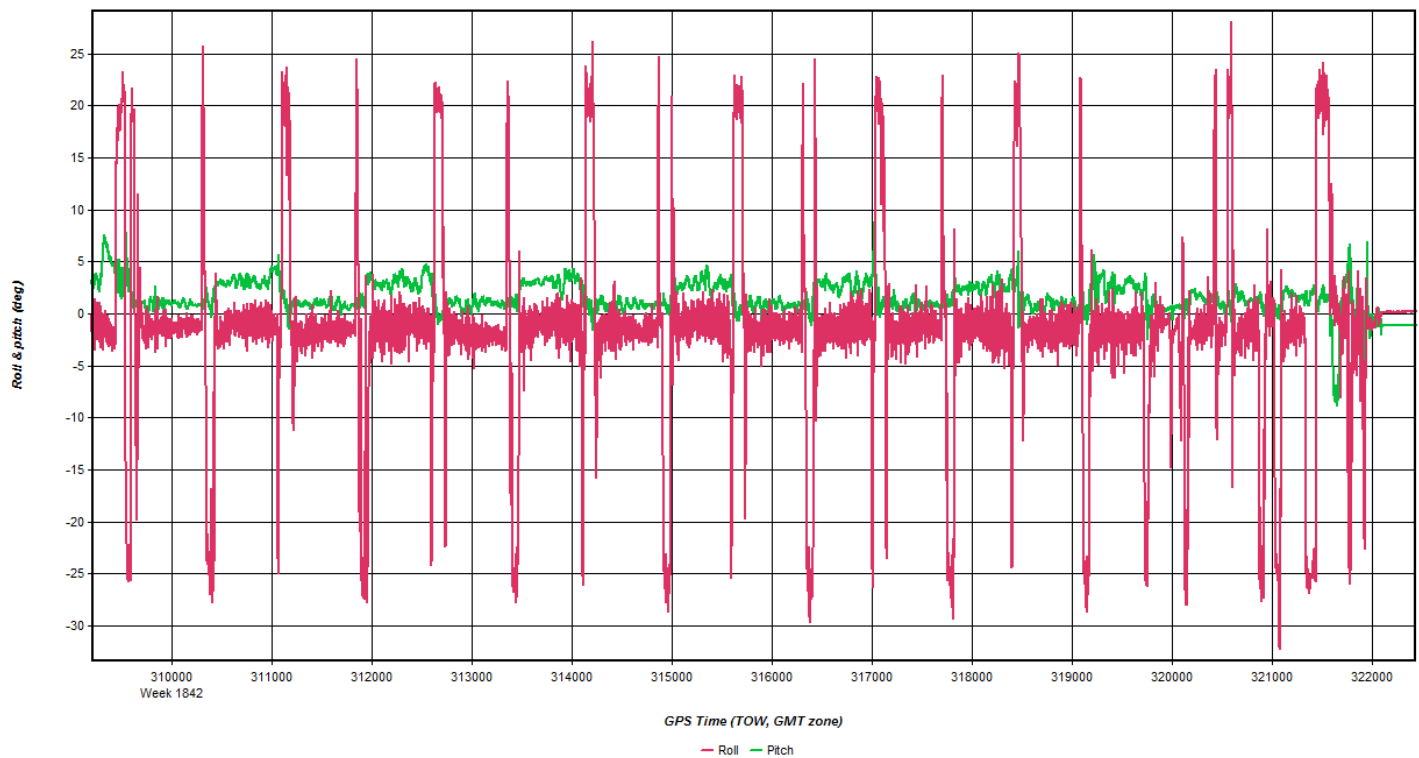
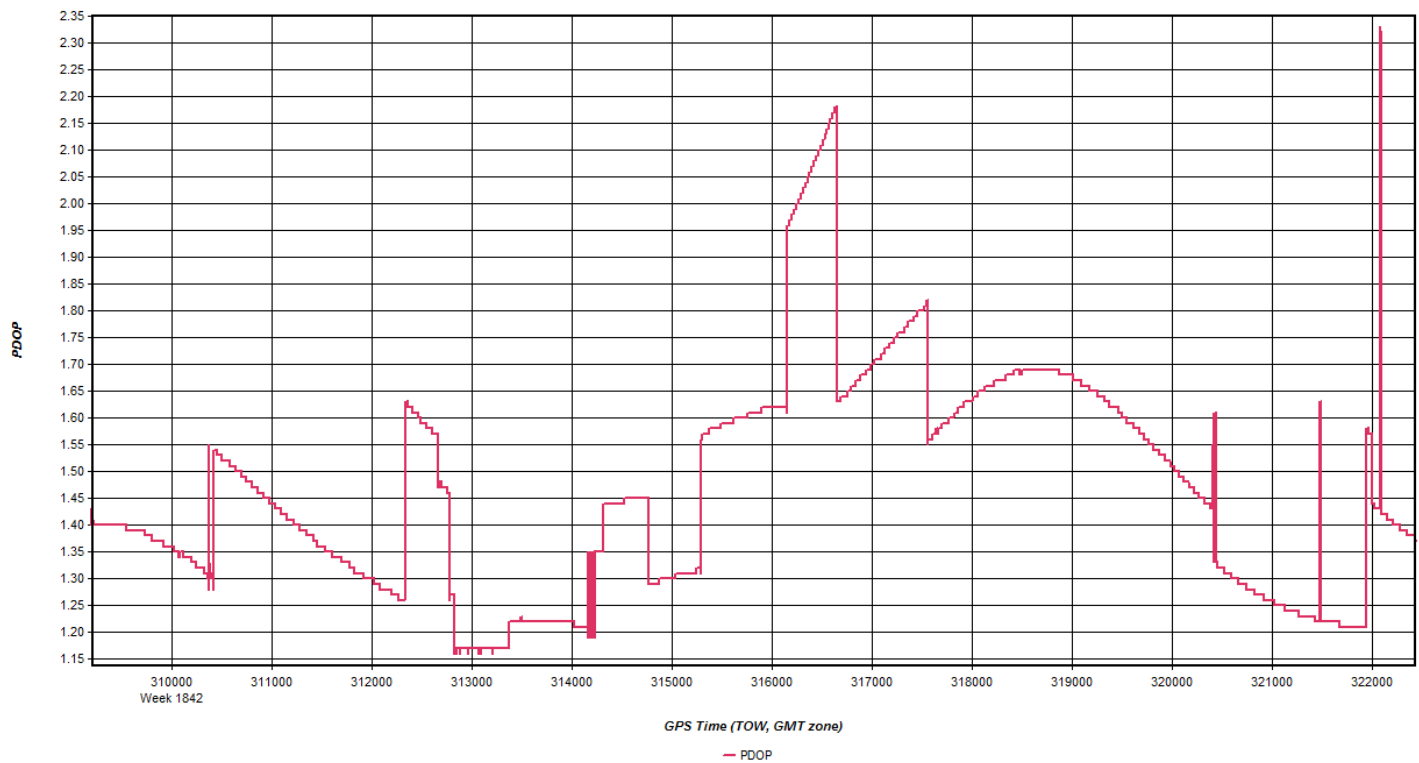
Measured to
☒ ARP
☐ L1 Phase Centre
 Compute From Slant

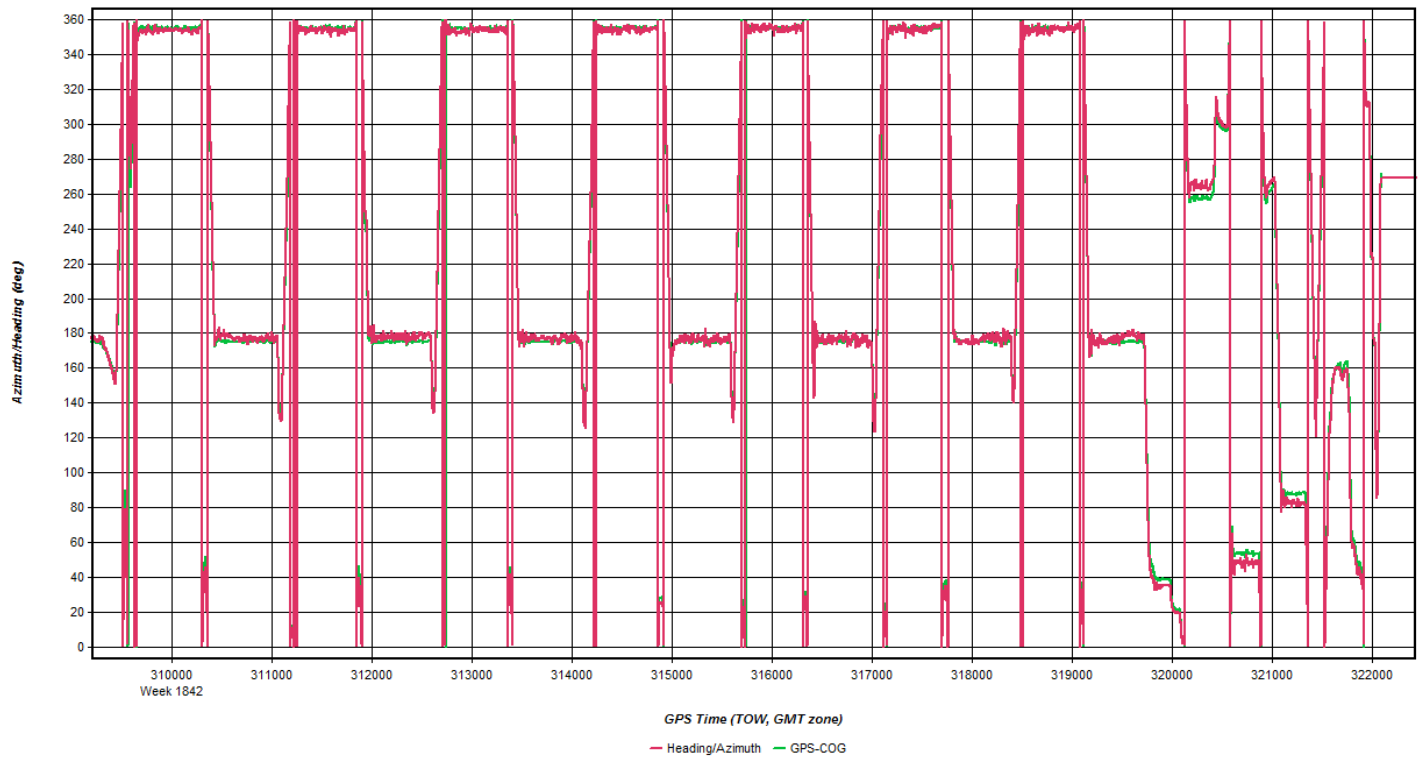
OK Cancel

Apr 29, 2015-C (7121)









Base Station Log

Coordinate/Antenna Settings

Master Remote

Base Station
 3: NYET Name: NYET ☐ Disabled
 File: D:\Proc\From_Kucera\rawlaser\20150429_131950\GW_Proc_4-

Coordinates
 Latitude: North 44 12 34.85080 Compute from PPP
 Longitude: West 73 32 25.85231 Enter Grid Values
 Ellipsoidal height: 174.246 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

Antenna Height
 From station file: LEIAT504, LEIS View STA File
 Antenna profile: LEIAT504, LEIS Info

Measured height: 0.000 m
 ARP to L1 offset: 0.088 m
 Applied height: 0.088 m

Measured to
☒ ARP
☐ L1 Phase Centre
 Compute From Slant

OK Cancel

Coordinate/Antenna Settings

Master Remote

Base Station
 2: NYPB Name: NYPB ☐ Disabled
 File: D:\Proc\From_Kucera\rawlaser\20150429_131950\GW_Proc_4-

Coordinates
 Latitude: North 44 40 50.58254 Compute from PPP
 Longitude: West 73 27 14.30528 Enter Grid Values
 Ellipsoidal height: 30.150 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

Antenna Height
 From station file: LEIAT504, LEIS View STA File
 Antenna profile: LEIAT504, LEIS Info

Measured height: 0.000 m
 ARP to L1 offset: 0.088 m
 Applied height: 0.088 m

Measured to
☒ ARP
☐ L1 Phase Centre
 Compute From Slant

OK Cancel

Coordinate/Antenna Settings

Master Remote

Base Station
 1: VTUV Name: VTUV ☐ Disabled
 File: D:\Proc\From_Kucera\rawlaser\20150429_131950\GW_Proc_4-

Coordinates
 Latitude: North 44 28 09.21279 Compute from PPP
 Longitude: West 73 11 52.37575 Enter Grid Values
 Ellipsoidal height: 112.410 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

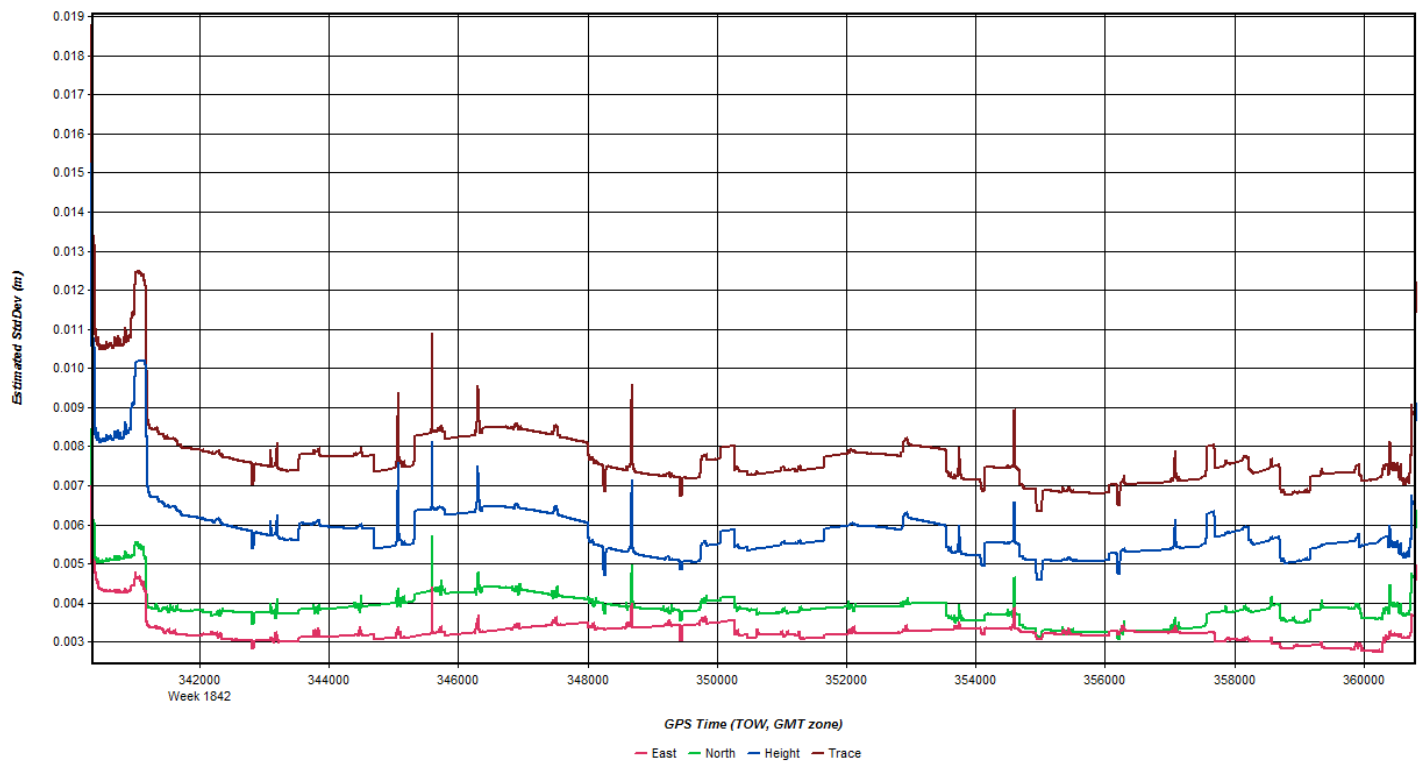
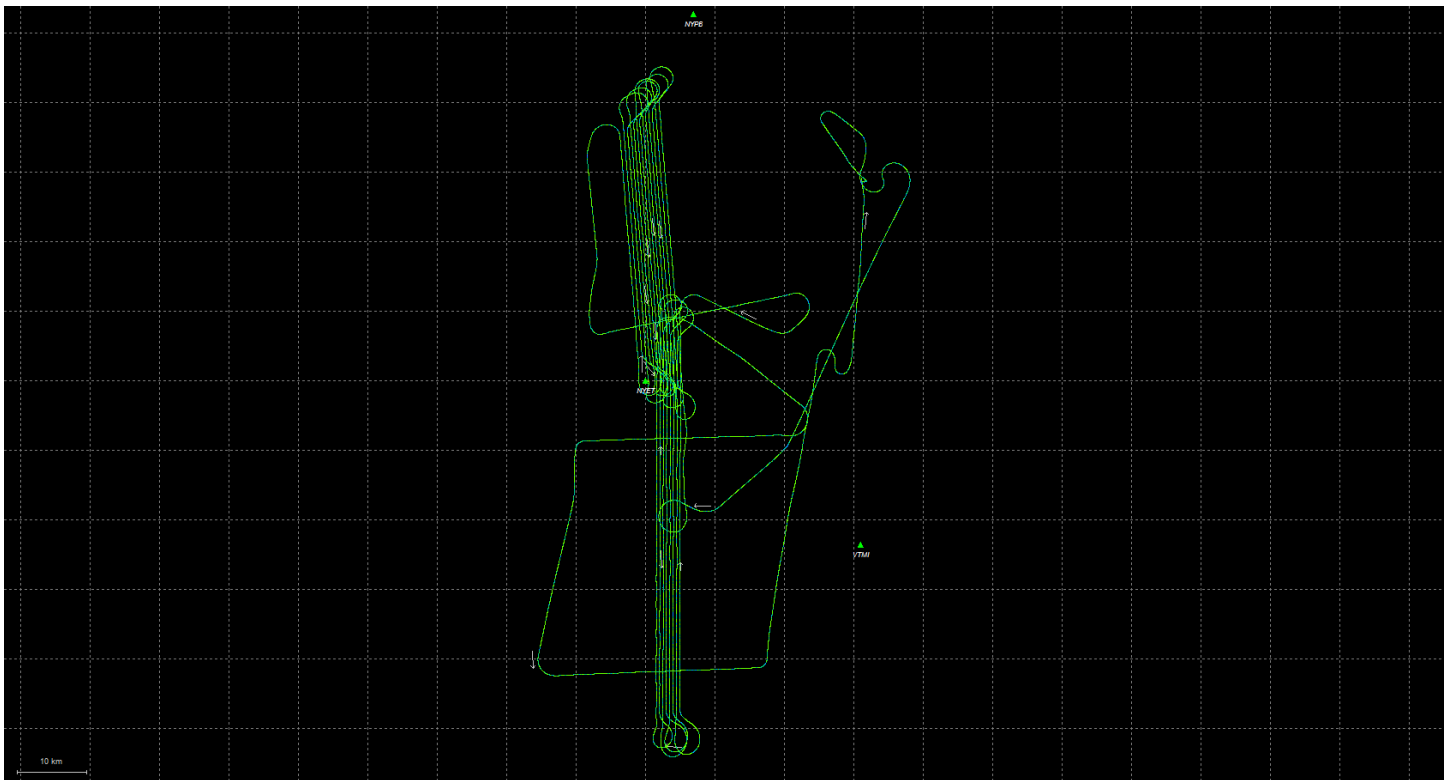
Antenna Height
 From station file: TRM41249.00, TZGD View STA File
 Antenna profile: TRM41249.00, TZGD Info

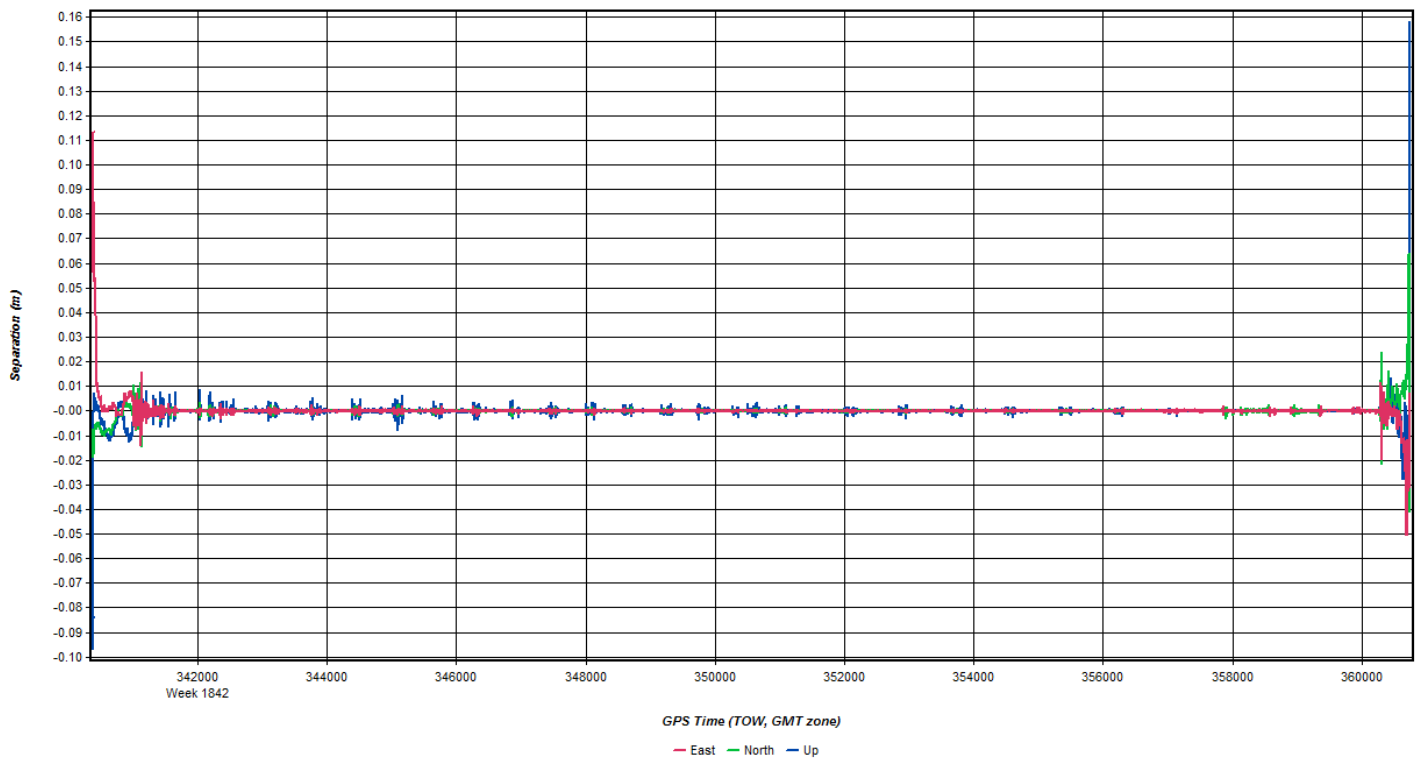
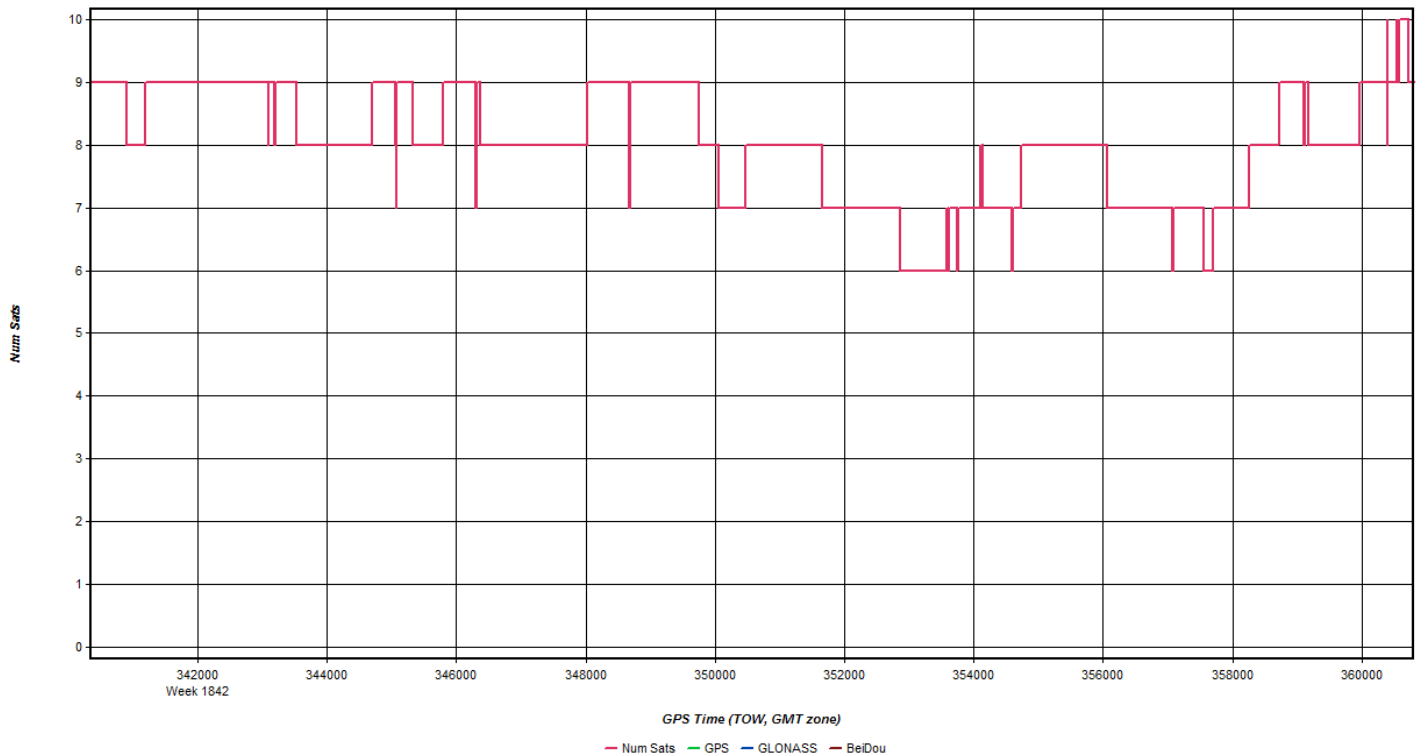
Measured height: 0.000 m
 ARP to L1 offset: 0.055 m
 Applied height: 0.055 m

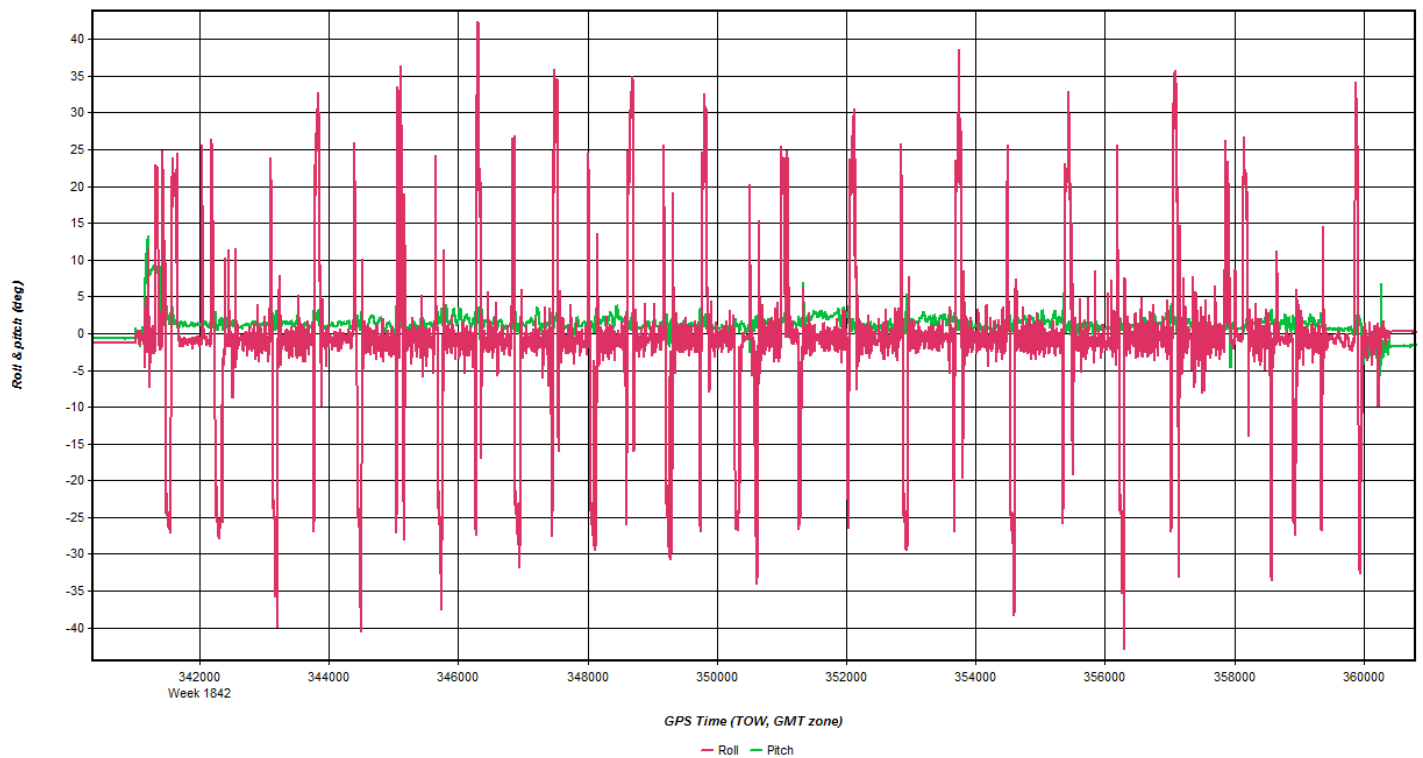
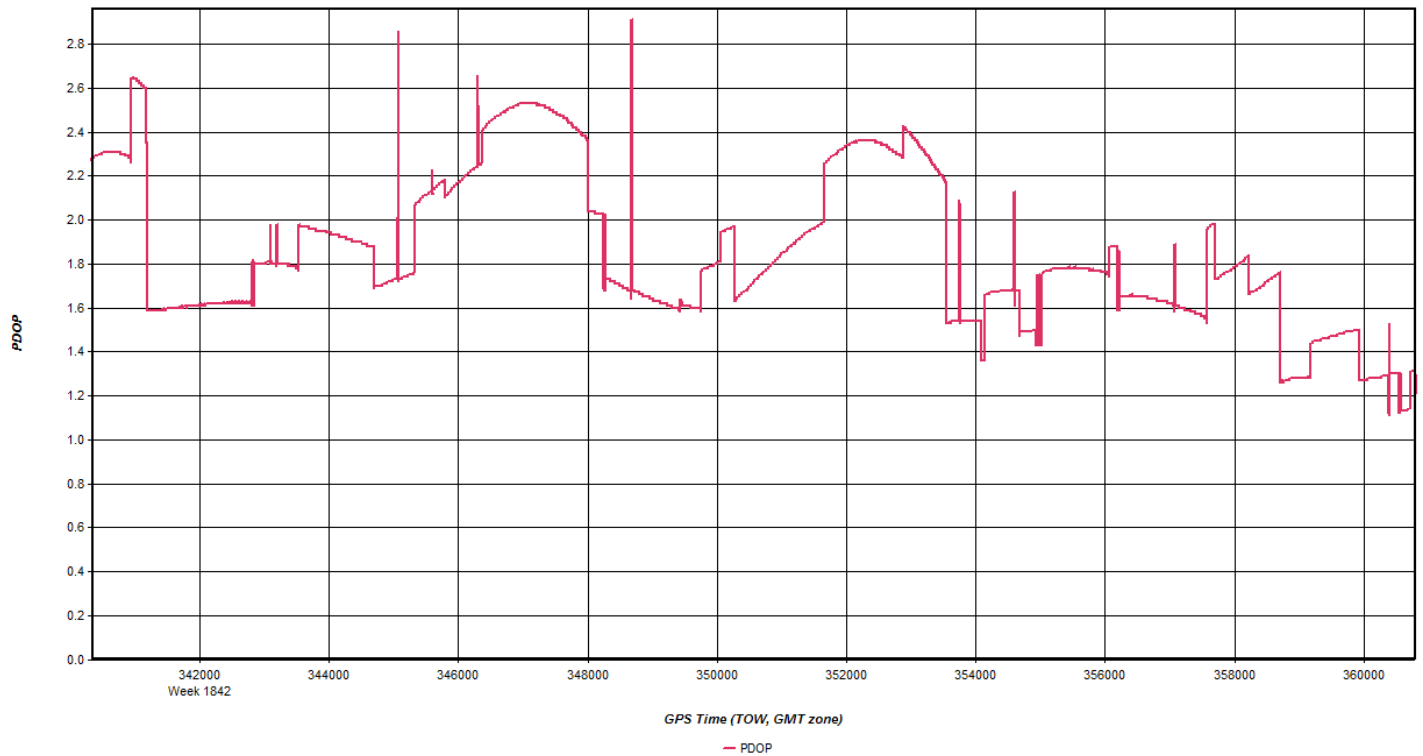
Measured to
☒ ARP
☐ L1 Phase Centre
 Compute From Slant

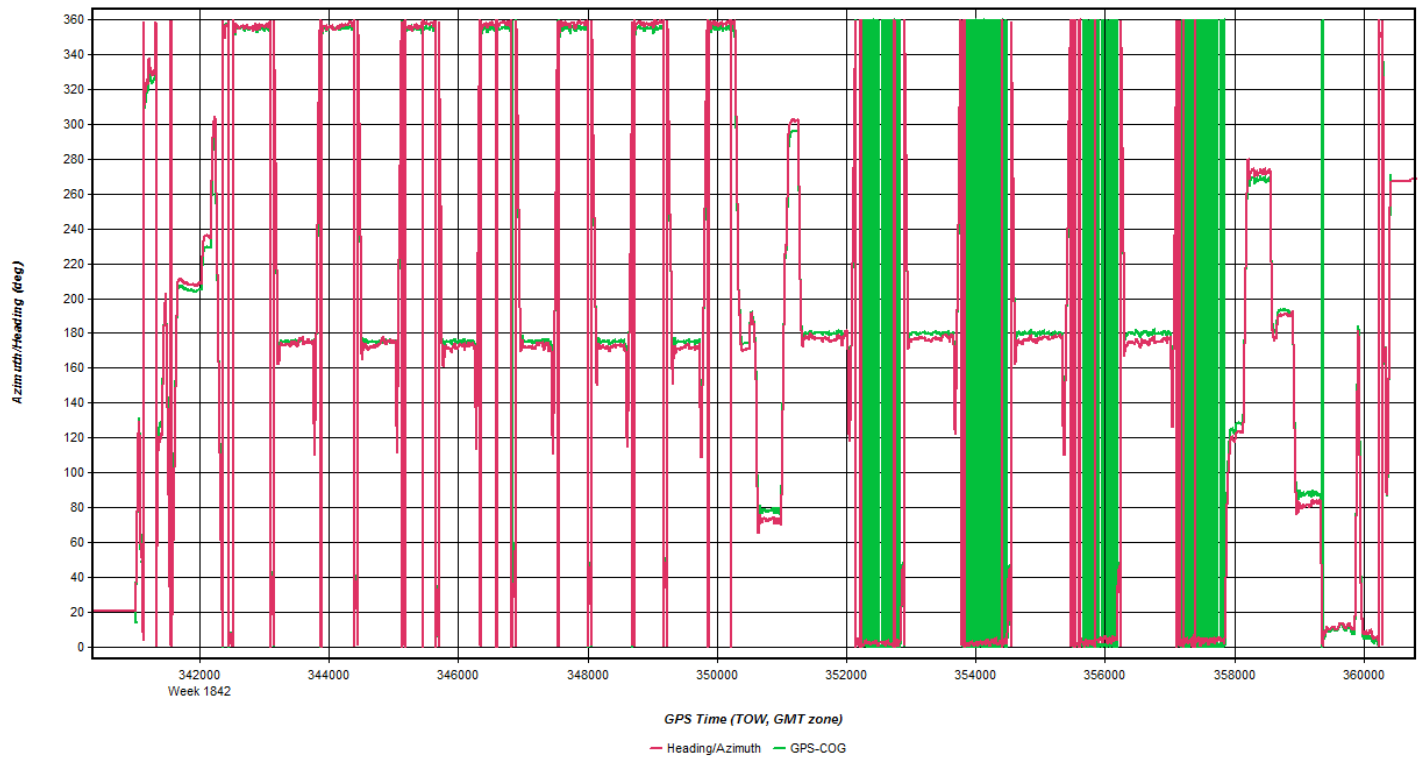
OK Cancel

Apr 29, 2015-D (7121)









Base Station Log

Coordinate/Antenna Settings

Master Remote

Base Station
 1: NYET Name: NYET ☐ Disabled
 File: D:\Proc\From_Kucera\rawlaser\20150429_222834\GW_Proc_4-

Coordinates
 Latitude: North 44 12 34.85080 Compute from PPP
 Longitude: West 73 32 25.85231 Enter Grid Values
 Ellipsoidal height: 174.246 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

Antenna Height
 From station file: LEIAT504, LEIS View STA File
 Antenna profile: LEIAT504, LEIS Info
 Measured height: 0.000 m
 ARP to L1 offset: 0.088 m
 Applied height: 0.088 m
 Measured to
☒ ARP
☐ L1 Phase Centre
 Compute From Slant

OK Cancel

Coordinate/Antenna Settings

Master Remote

Base Station
 2: NYPB Name: NYPB ☐ Disabled
 File: D:\Proc\From_Kucera\rawlaser\20150429_222834\GW_Proc_4-

Coordinates
 Latitude: North 44 40 50.58254 Compute from PPP
 Longitude: West 73 27 14.30528 Enter Grid Values
 Ellipsoidal height: 30.150 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

Antenna Height
 From station file: LEIAT504, LEIS View STA File
 Antenna profile: LEIAT504, LEIS Info
 Measured height: 0.000 m
 ARP to L1 offset: 0.088 m
 Applied height: 0.088 m
 Measured to
☒ ARP
☐ L1 Phase Centre
 Compute From Slant

OK Cancel

Coordinate/Antenna Settings

Master Remote

Base Station
 3: VTMI Name: VTMI ☐ Disabled
 File: D:\Proc\From_Kucera\rawlaser\20150429_222834\GW_Proc_4-

Coordinates
 Latitude: North 43 59 55.02507 Compute from PPP
 Longitude: West 73 09 09.38024 Enter Grid Values
 Ellipsoidal height: 96.027 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

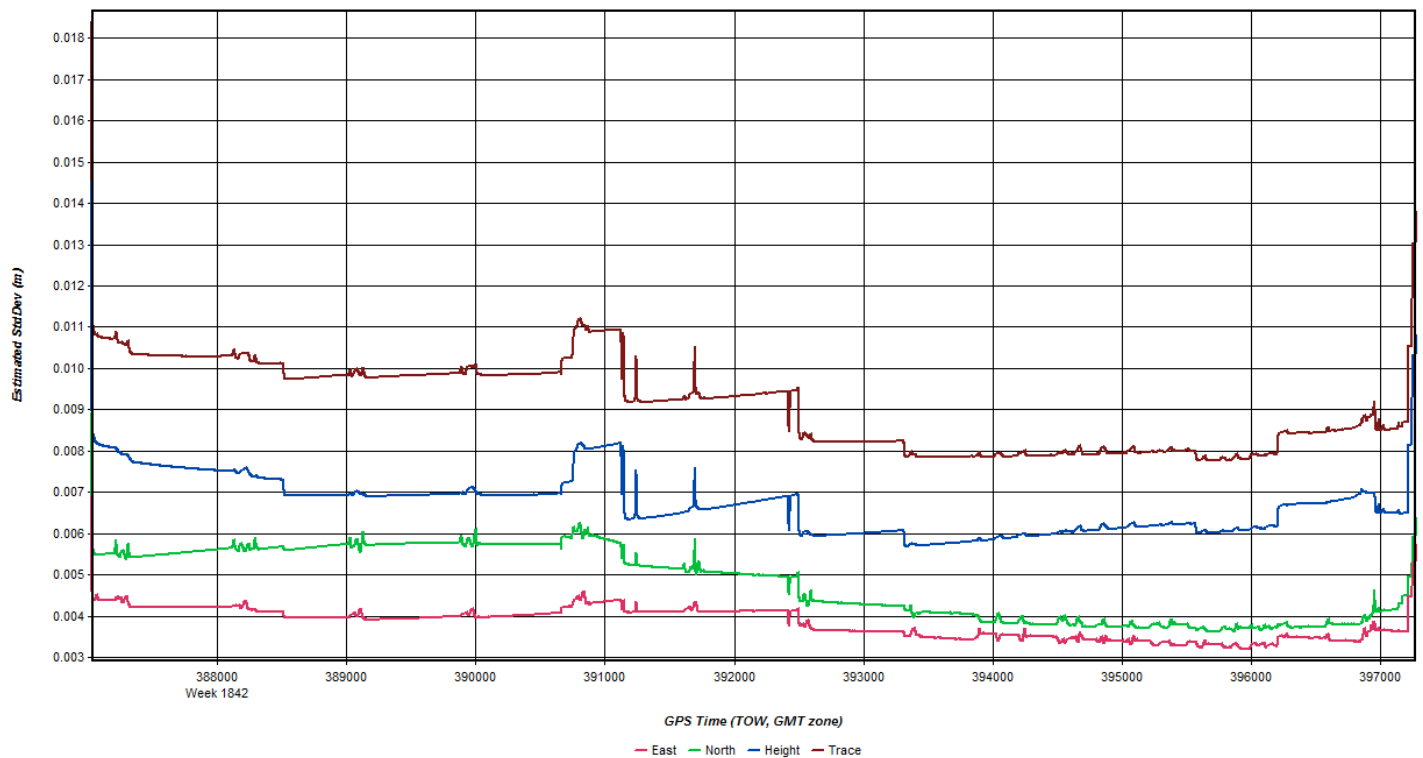
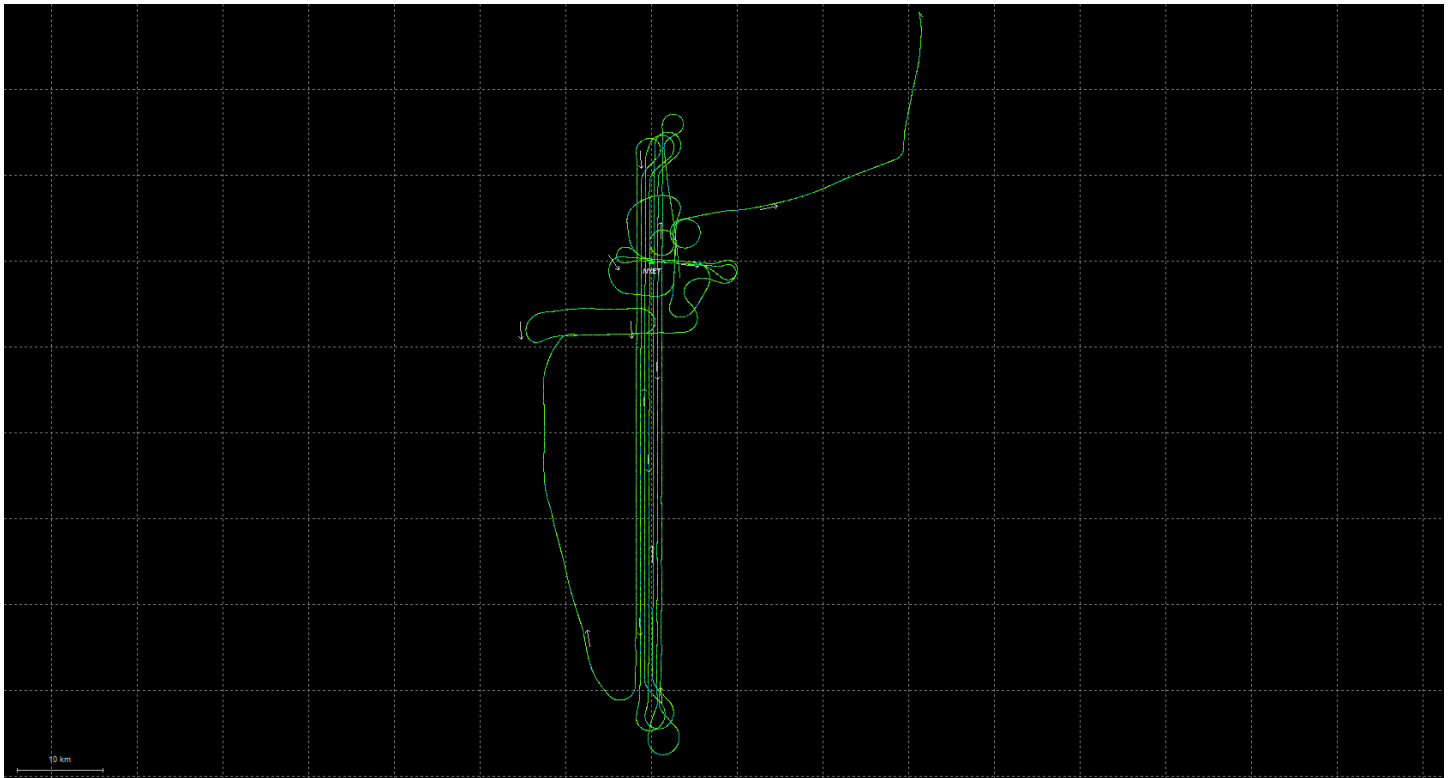
Antenna Height
 From station file: TRM55971.00, NONE View STA File
 Antenna profile: TRM55971.00 Info

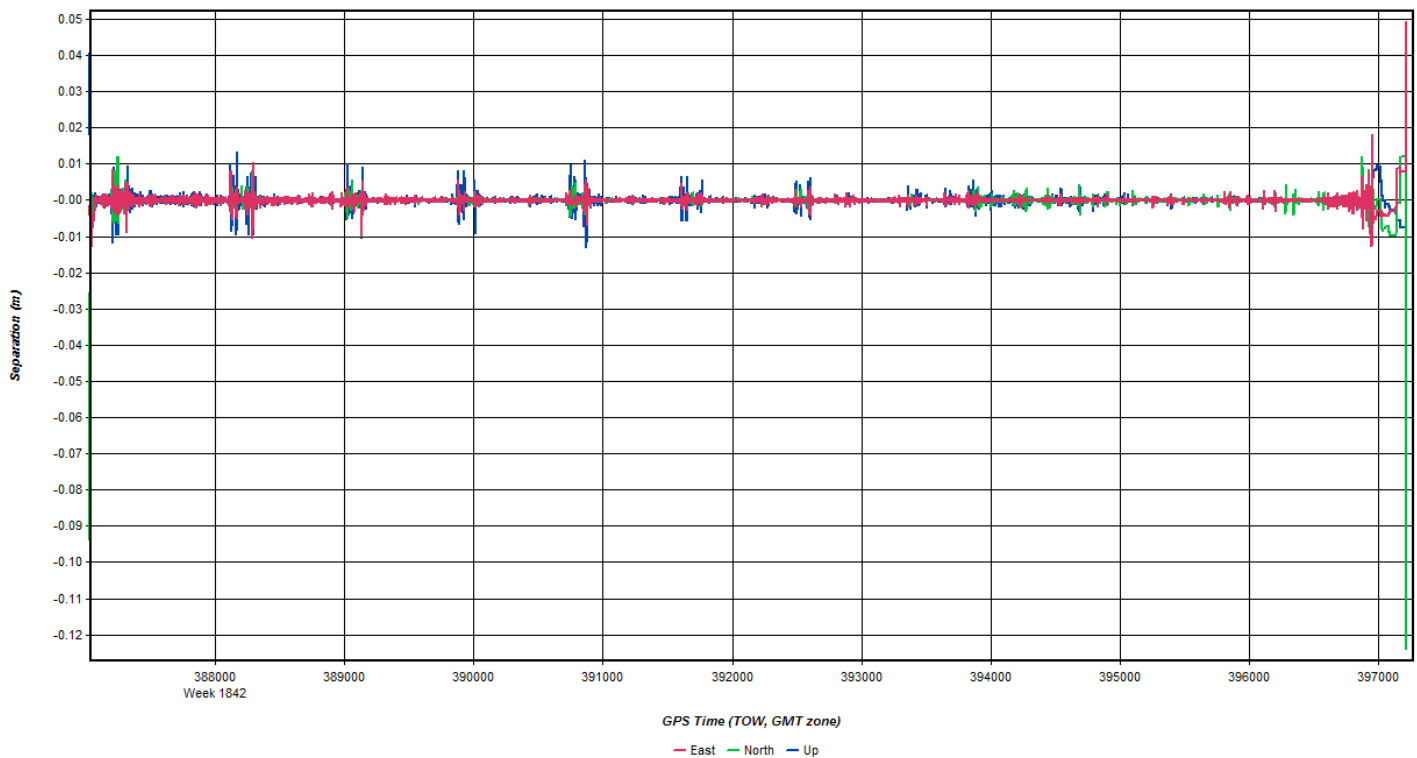
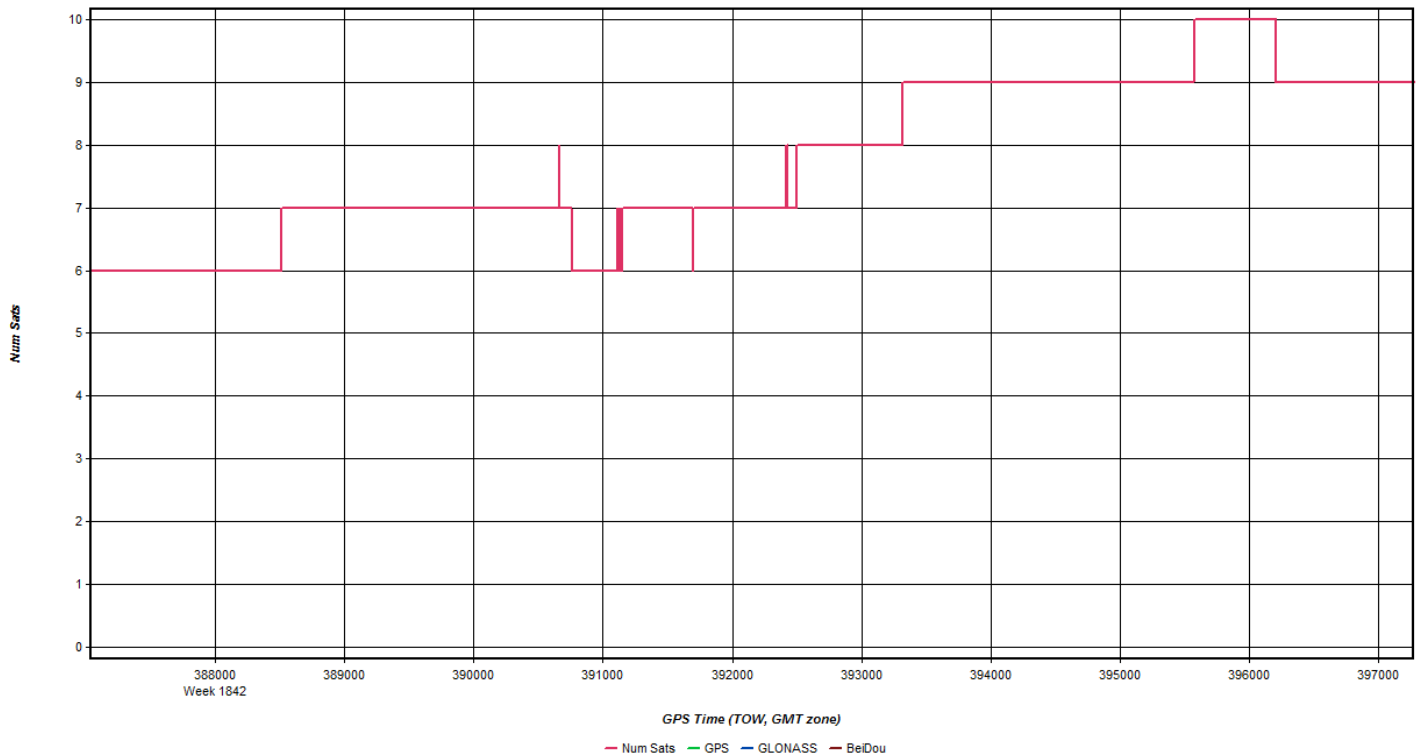
Measured height: 0.000 m
 ARP to L1 offset: 0.067 m
 Applied height: 0.067 m

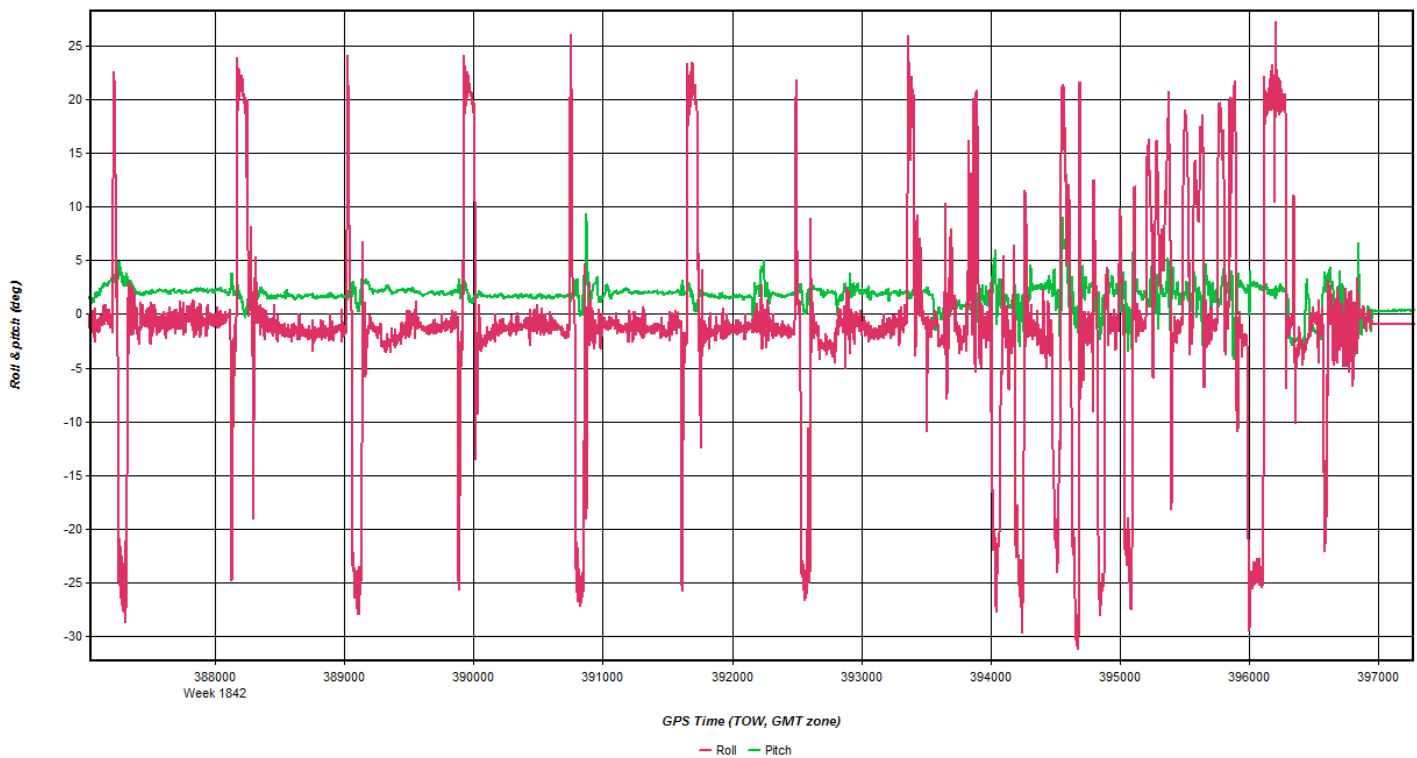
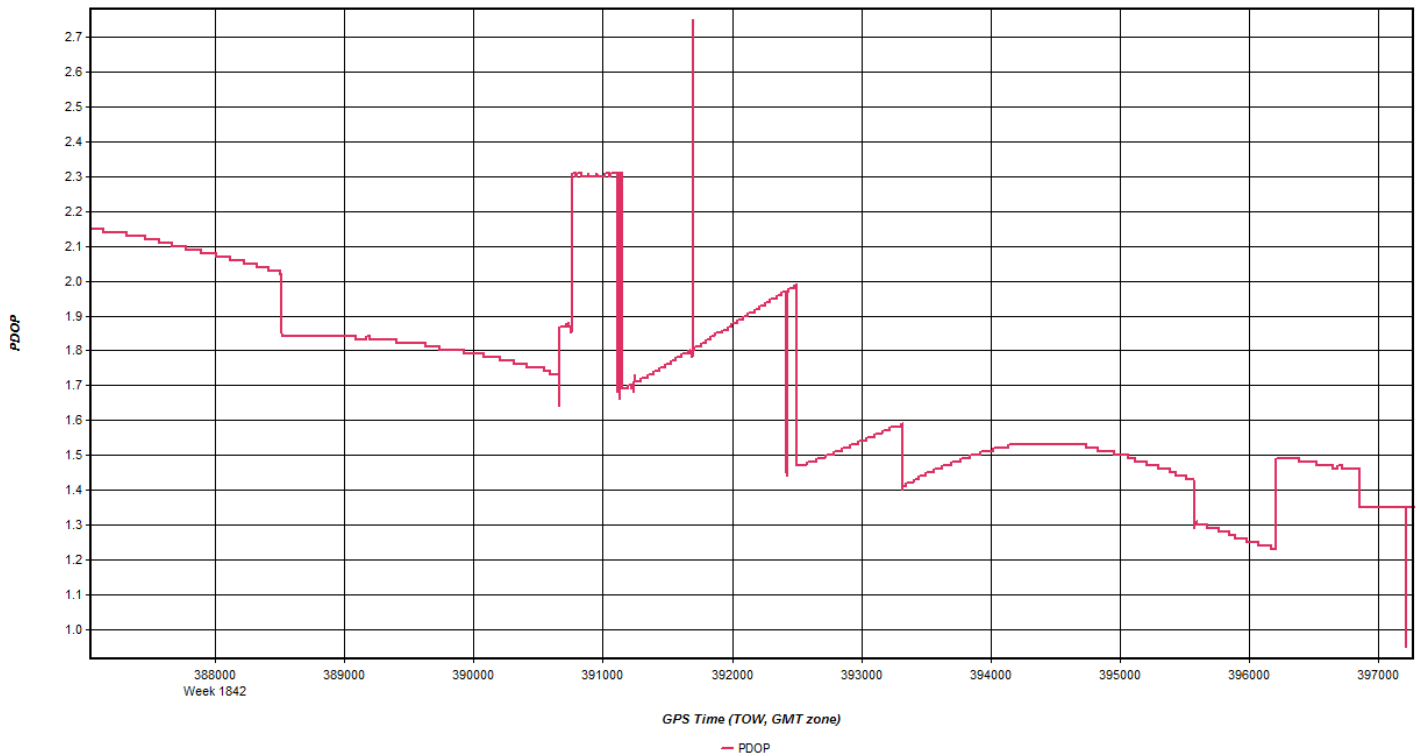
Measured to
☒ ARP
☐ L1 Phase Centre
 Compute From Slant

OK Cancel

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Coordinate/Antenna Settings

Master Remote

Base Station
 1: NYET Name: NYET ☐ Disabled
 File: D:\Proc\From_Kucera\rawlaser\20150430_110029\GW_Proc_4-

Coordinates
 Latitude: North 44 12 34.85080 Compute from PPP
 Longitude: West 73 32 25.85231 Enter Grid Values
 Ellipsoidal height: 174.246 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

Antenna Height
 From station file: LEIAT504, LEIS View STA File
 Antenna profile: LEIAT504, LEIS Info

Measured height: 0.000 m
 ARP to L1 offset: 0.088 m
 Applied height: 0.088 m

Measured to
☒ ARP
☐ L1 Phase Centre
 Compute From Slant

OK Cancel

Base Station Log

Coordinate/Antenna Settings

Master Remote

Base Station
 1: NYET Name: NYET ☐ Disabled
 File: D:\Proc\From_Kucera\rawlaser\20150430_110029\GW_Proc_4-

Coordinates
 Latitude: North 44 12 34.85080 Compute from PPP
 Longitude: West 73 32 25.85231 Enter Grid Values
 Ellipsoidal height: 174.246 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

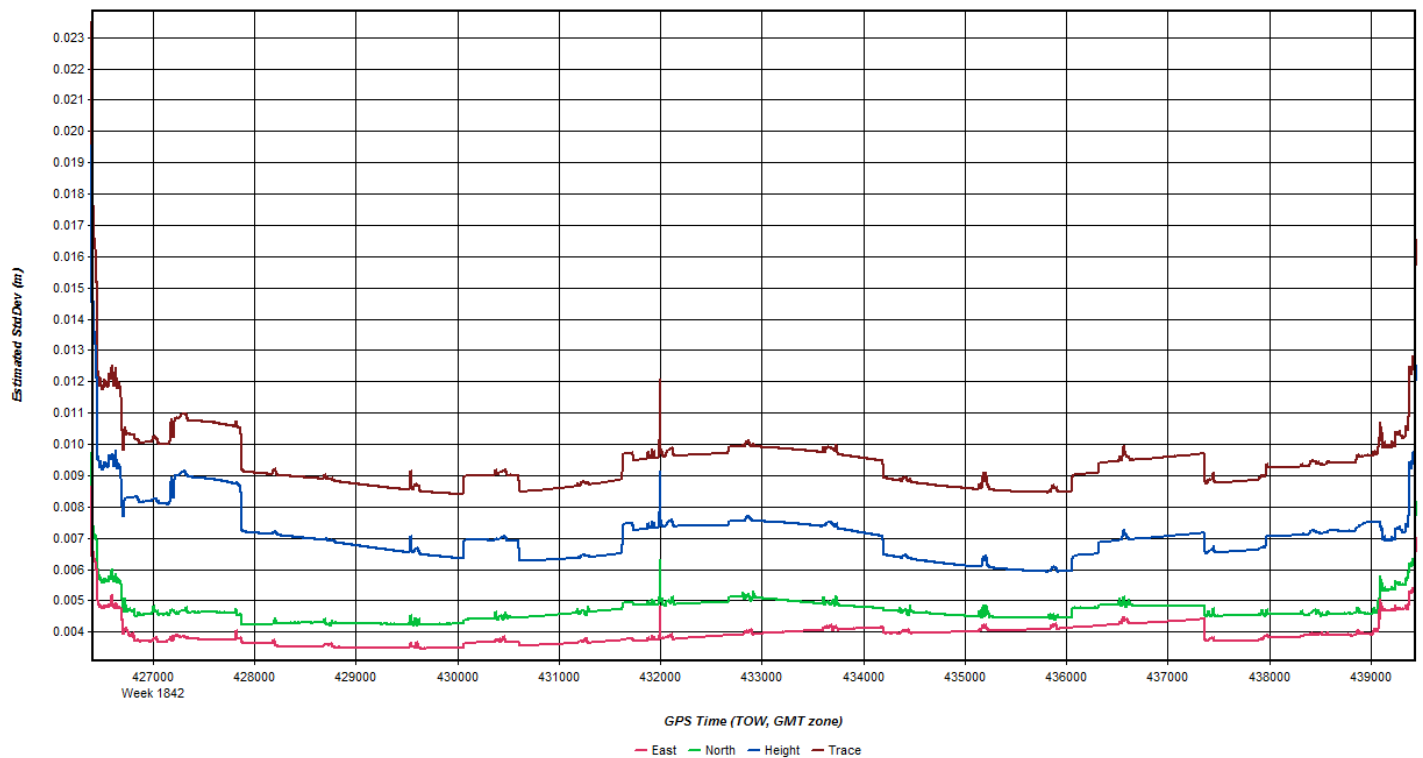
Antenna Height
 From station file: LEIAT504, LEIS View STA File
 Antenna profile: LEIAT504, LEIS Info

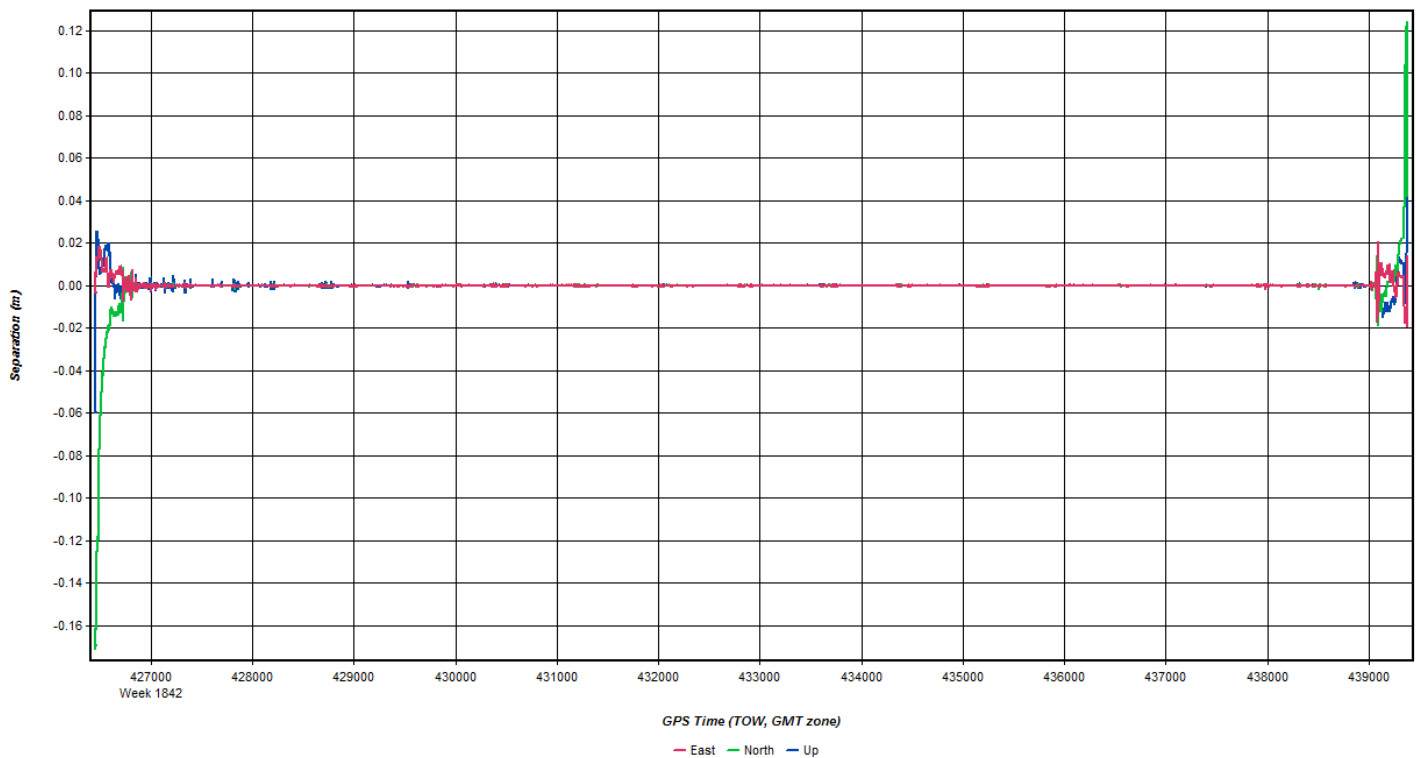
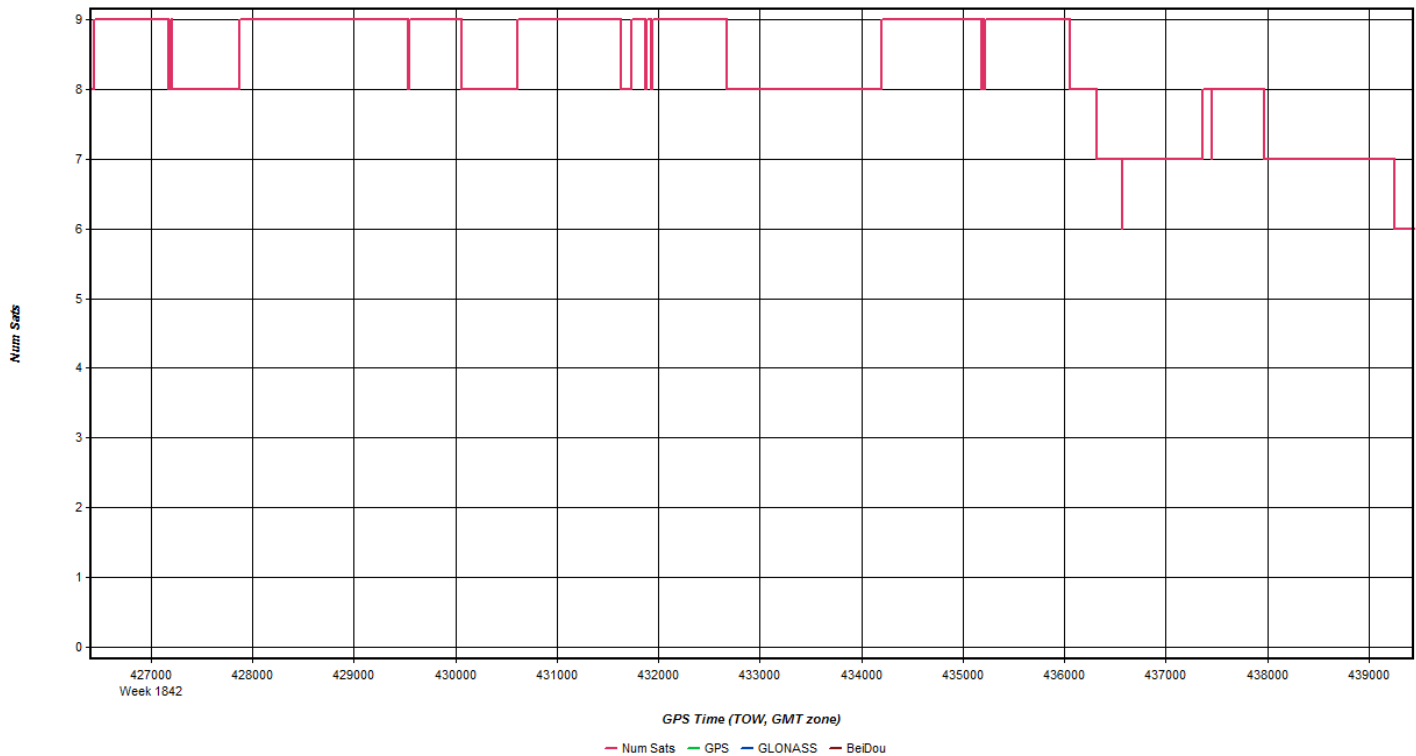
Measured height: 0.000 m
 ARP to L1 offset: 0.088 m
 Applied height: 0.088 m

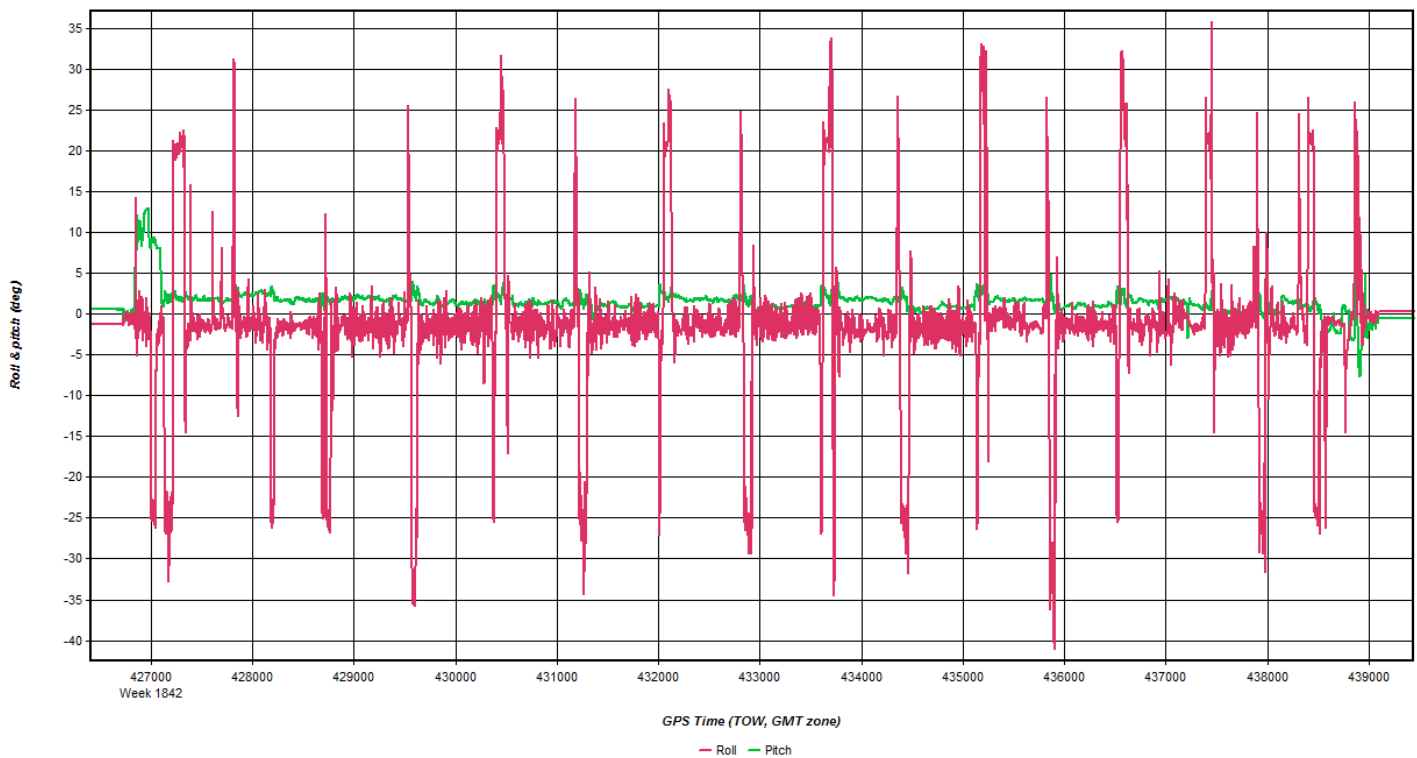
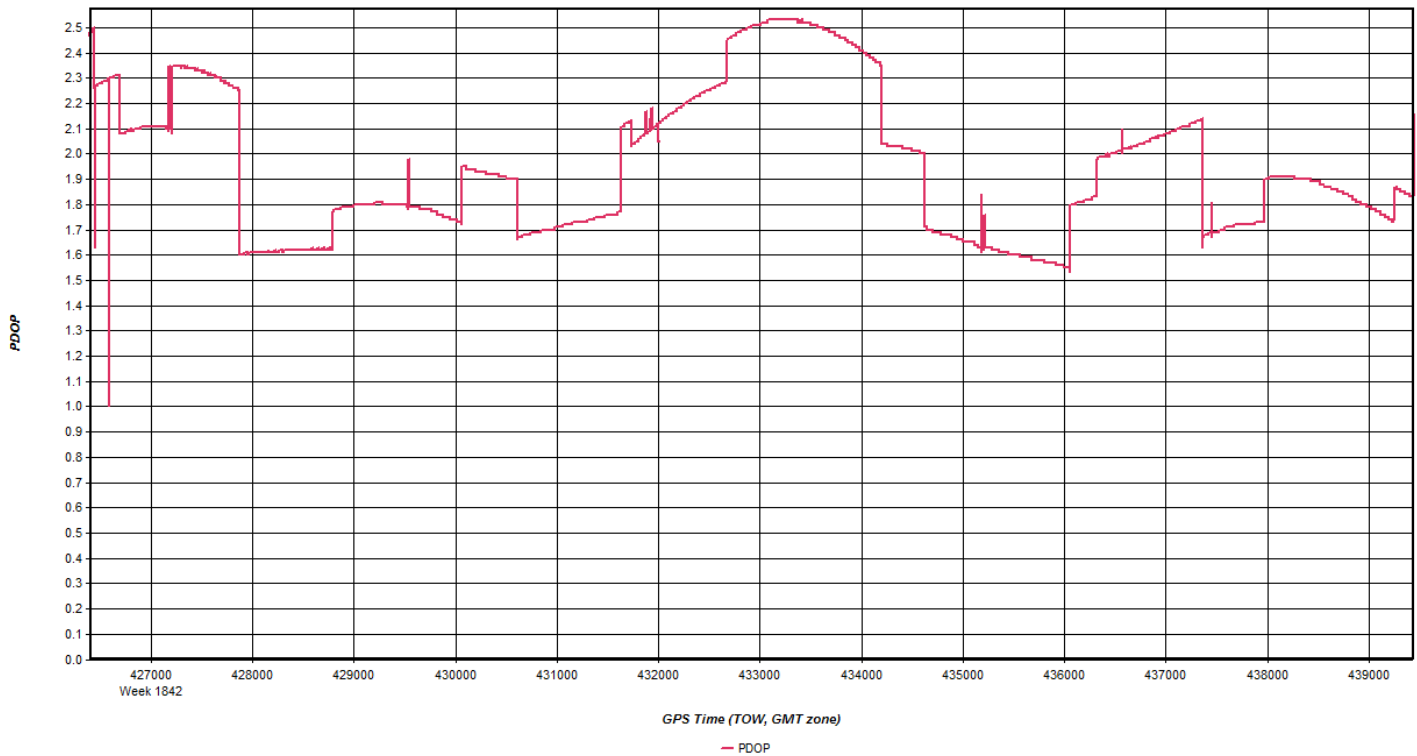
Measured to
☒ ARP
☐ L1 Phase Centre
 Compute From Slant

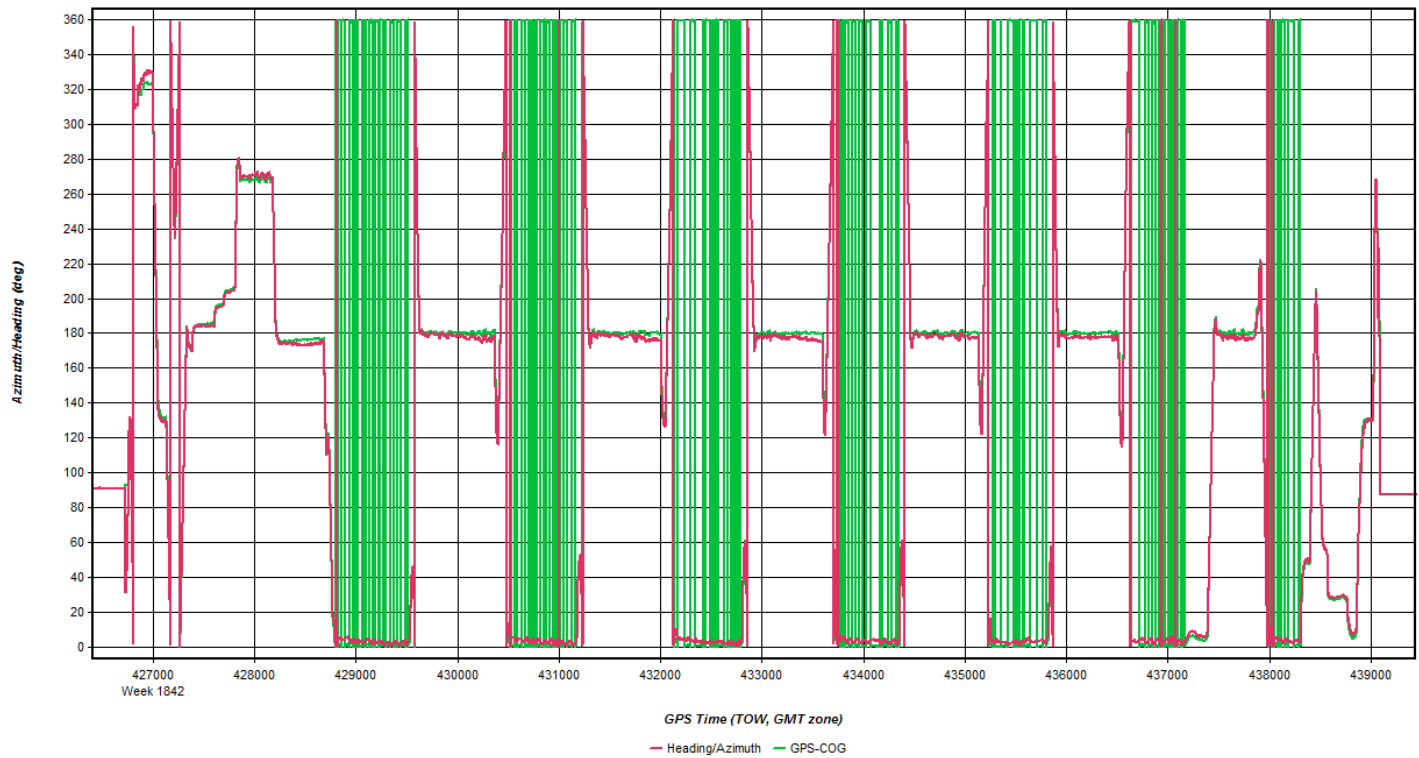
OK Cancel

Apr 30, 2015-B (7121)









Base Station Log

Coordinate/Antenna Settings

Master Remote

Base Station
 1: NYET Name: NYET ☐ Disabled
 File: D:\Proc\From_Kucera\rawlaser\20150430_222222\GW_Proc_4-

Coordinates
 Latitude: North 44 12 34.85080 Compute from PPP
 Longitude: West 73 32 25.85231 Enter Grid Values
 Ellipsoidal height: 174.246 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

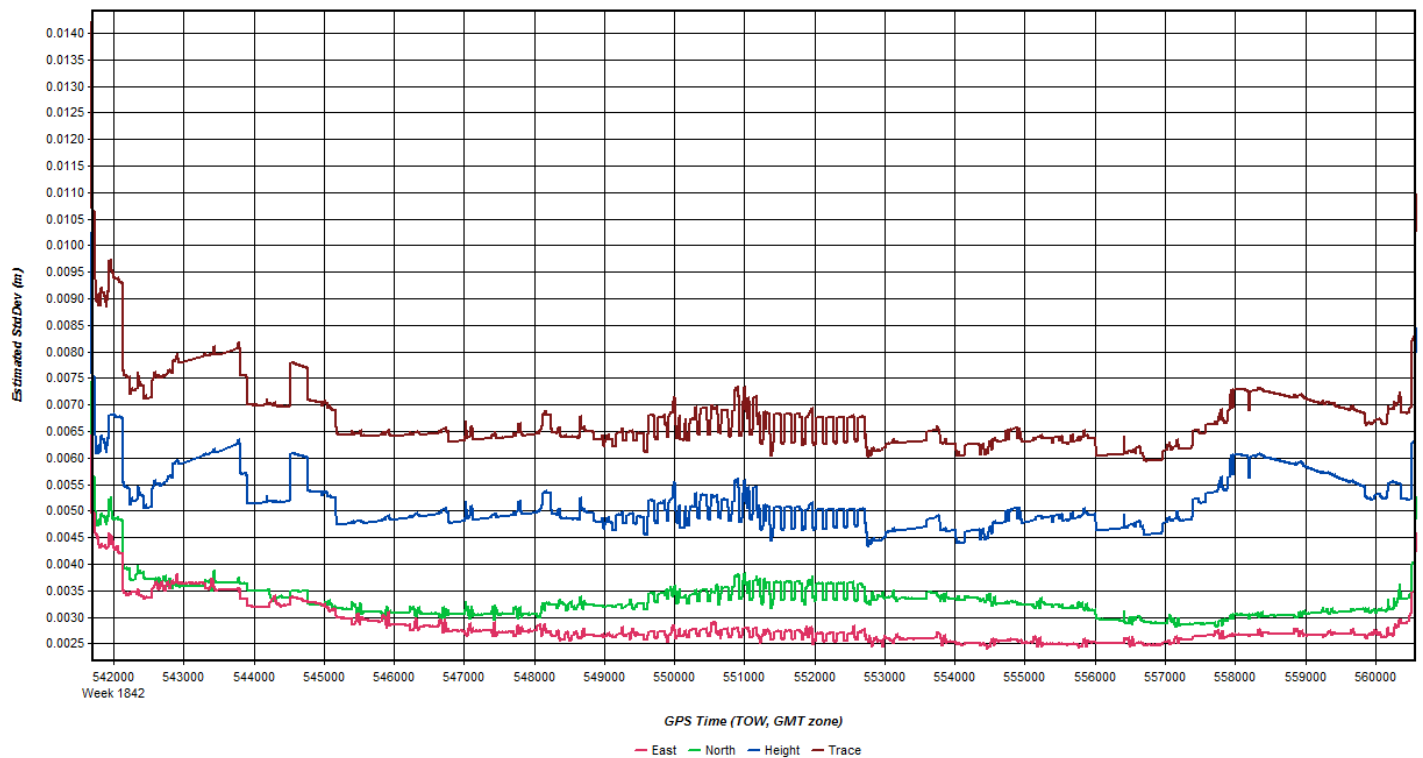
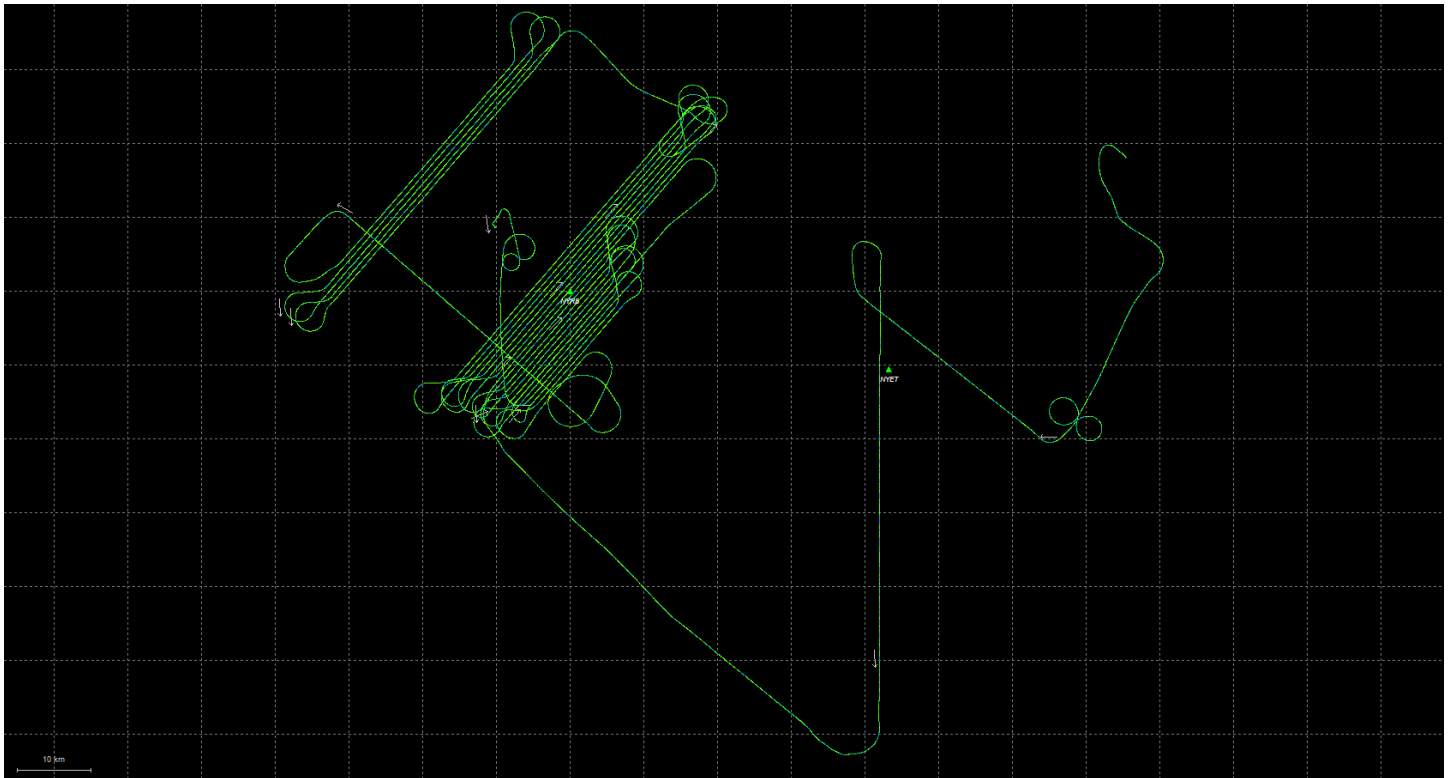
Antenna Height
 From station file: LEIAT504, LEIS View STA File
 Antenna profile: LEIAT504, LEIS Info

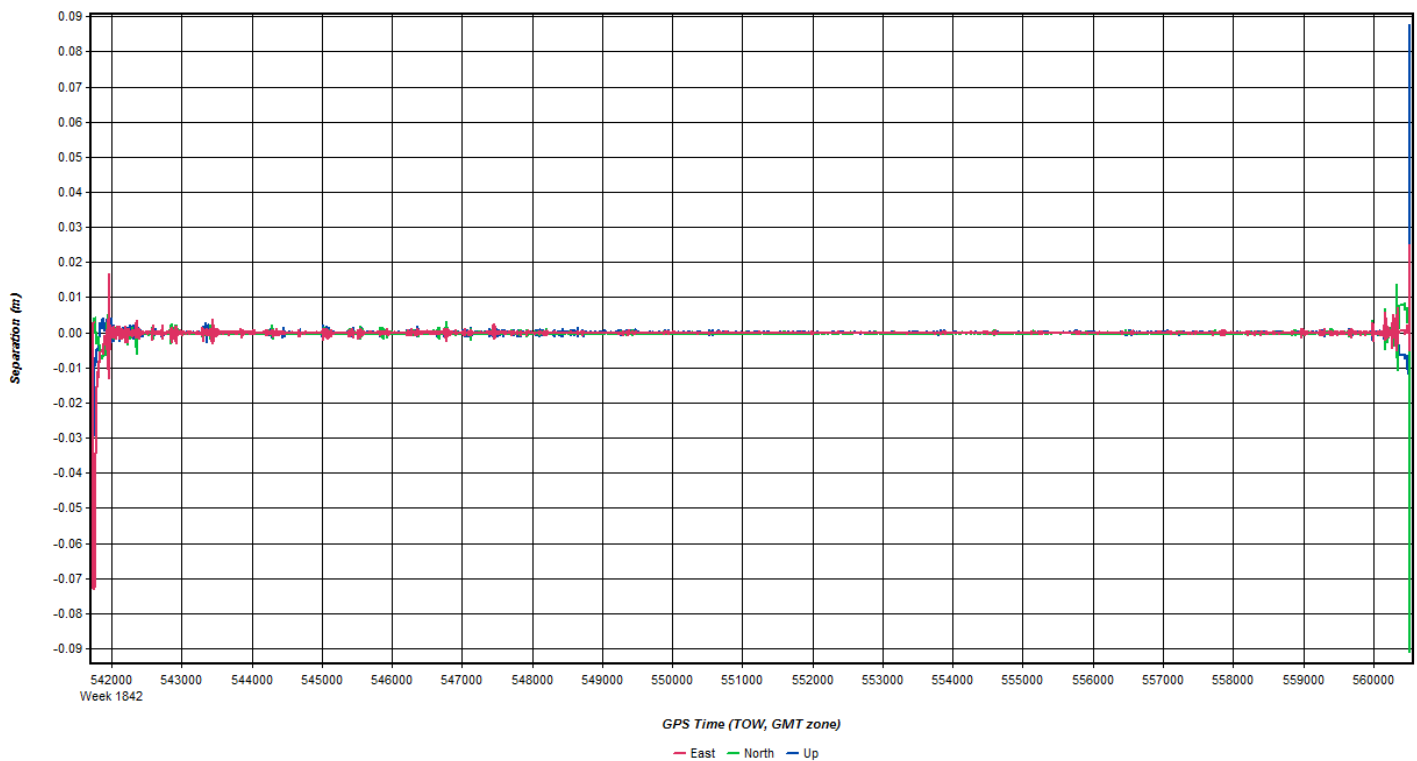
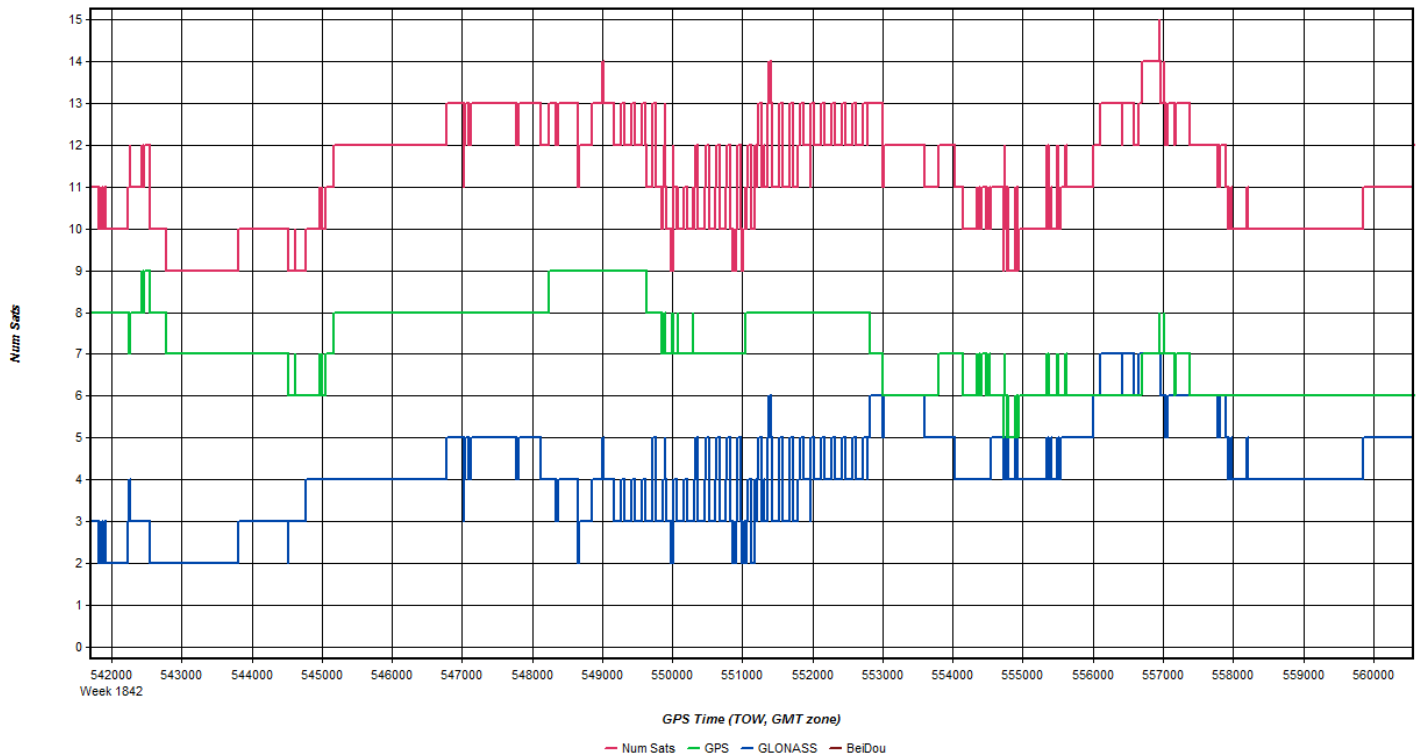
Measured height: 0.000 m
 ARP to L1 offset: 0.088 m
 Applied height: 0.088 m

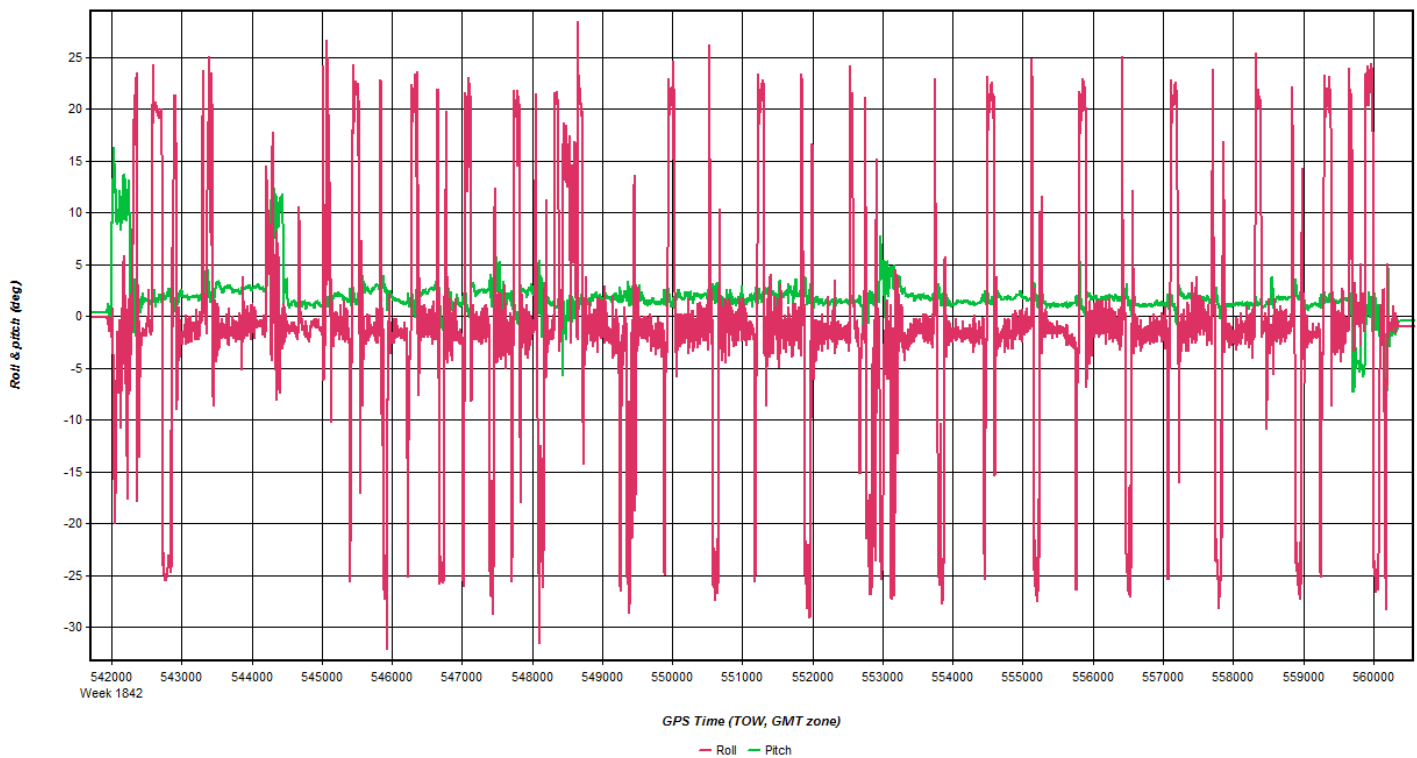
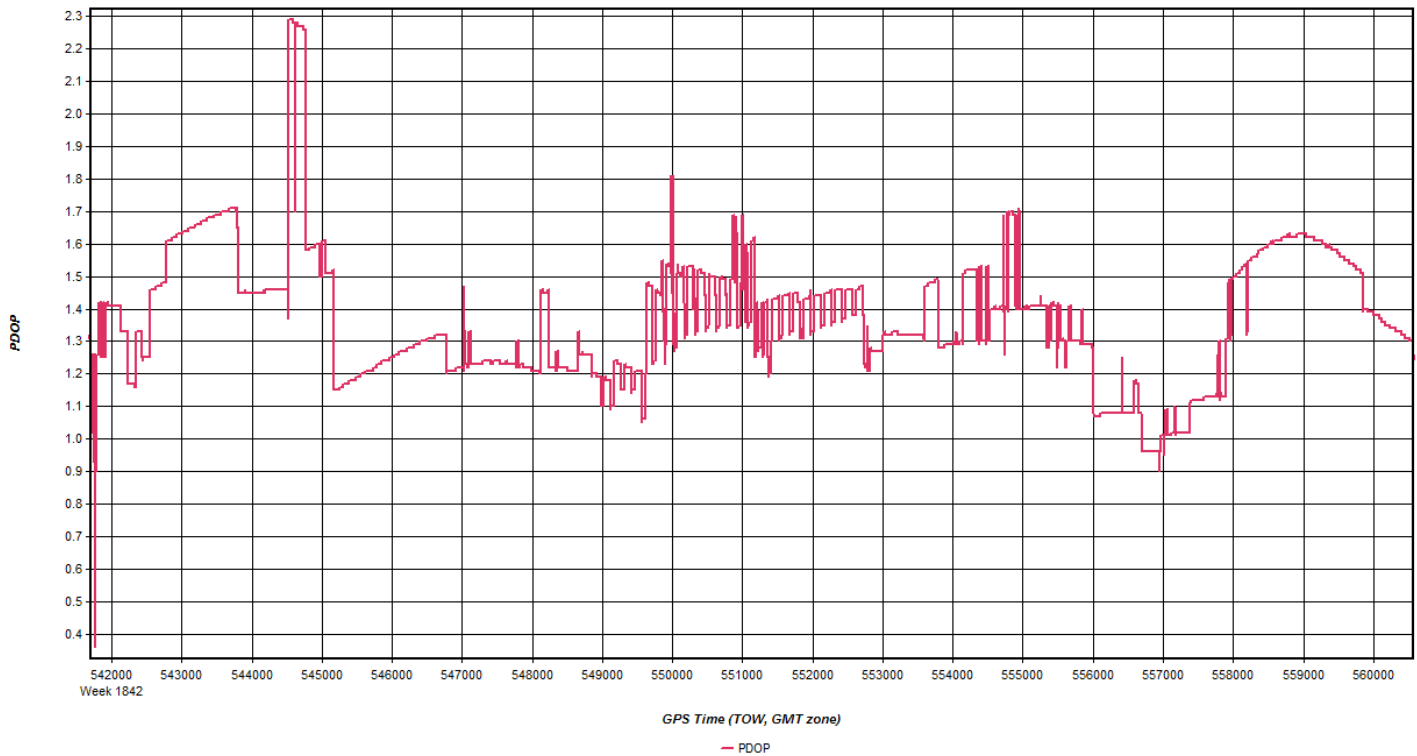
Measured to
☒ ARP
☐ L1 Phase Centre
 Compute From Slant

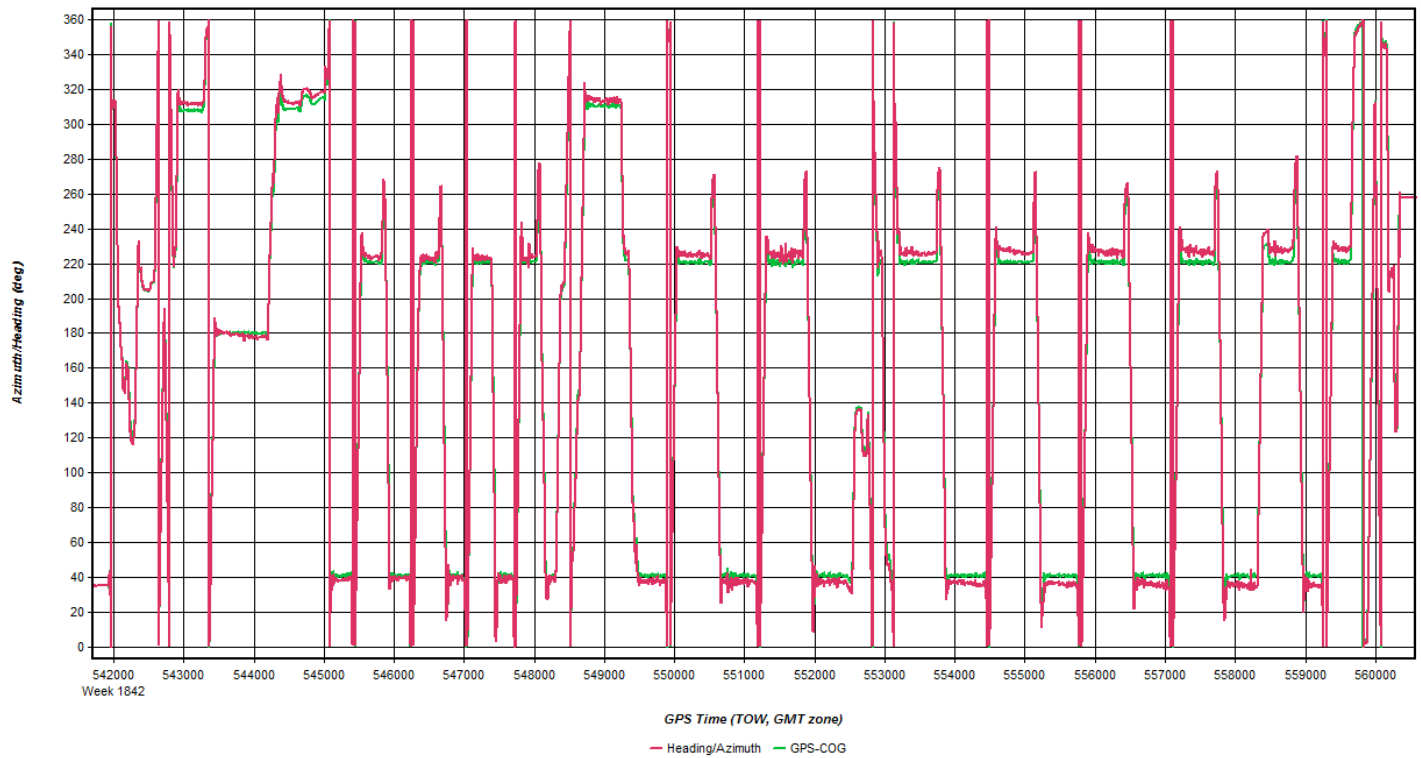
OK Cancel

May 2, 2015-A (7121)









Base Station Log

Coordinate/Antenna Settings

Master Remote

Base Station
2: NYET Name: NYET ☐ Disabled
File: D:\Proc\From_Kucera\rawlaser\20150502_062421\GW_Proc_5-

Coordinates
Latitude: North 44 12 34.85080 Compute from PPP
Longitude: West 73 32 25.85231 Enter Grid Values
Ellipsoidal height: 174.246 m Enter MSL Height
Datum: NAD83(2011) Datum Options
Select From Favorites Add To Favorites Use Average Position

Antenna Height
From station file: LEIAT504, LEIS View STA File
Antenna profile: LEIAT504, LEIS Info
Measured height: 0.000 m Measured to
ARP to L1 offset: 0.088 m ☒ ARP
Applied height: 0.088 m ☐ L1 Phase Centre
Compute From Slant

OK Cancel

Coordinate/Antenna Settings

Master Remote

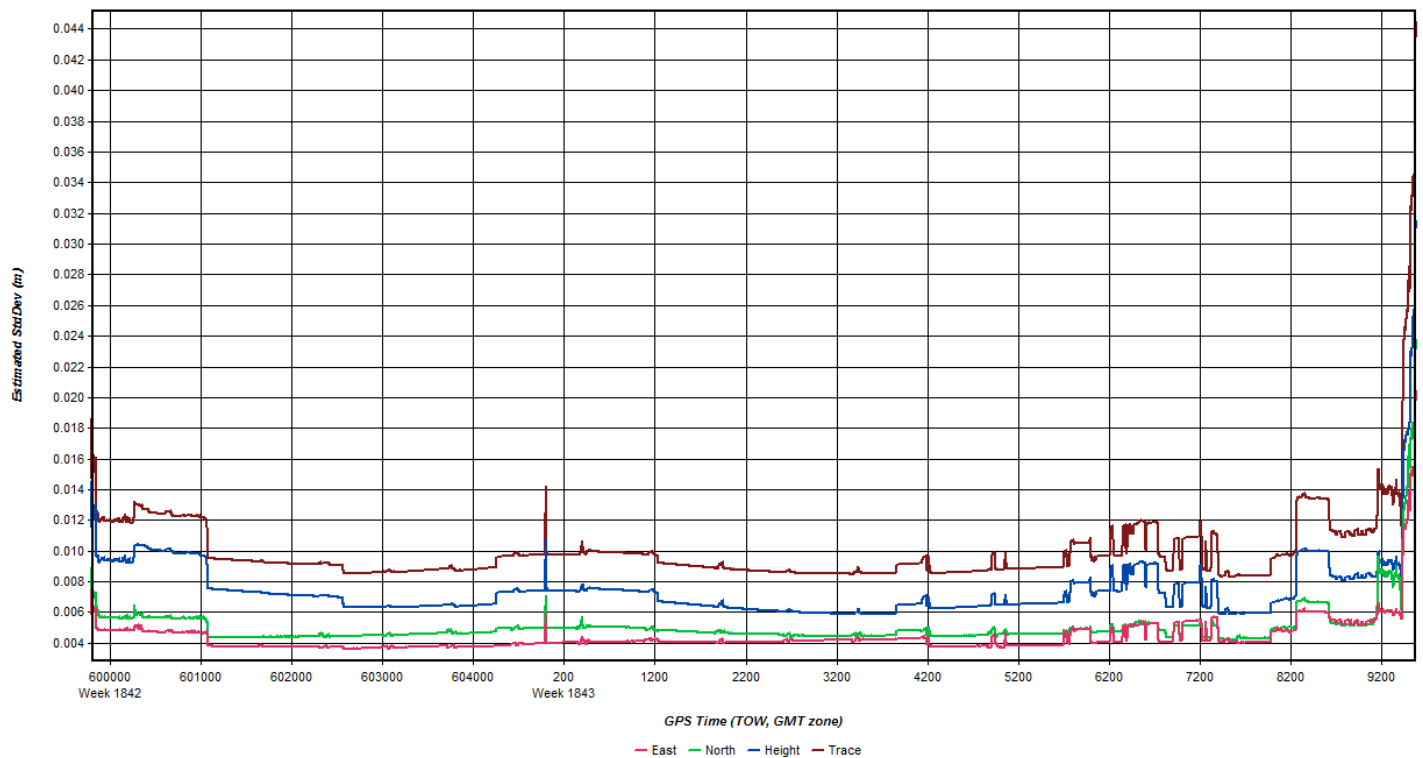
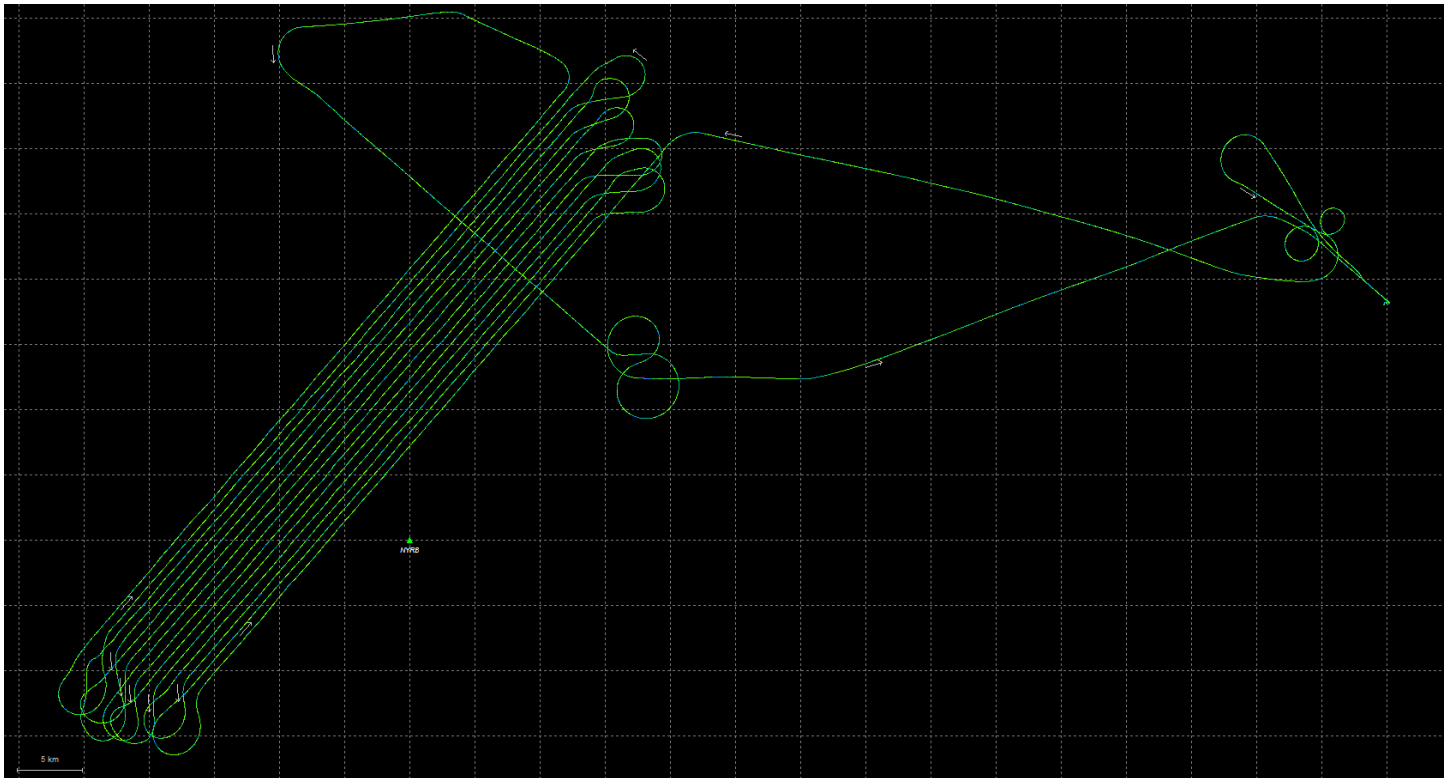
Base Station
1: NYRB Name: NYRB ☐ Disabled
File: D:\Proc\From_Kucera\rawlaser\20150502_062421\GW_Proc_5-

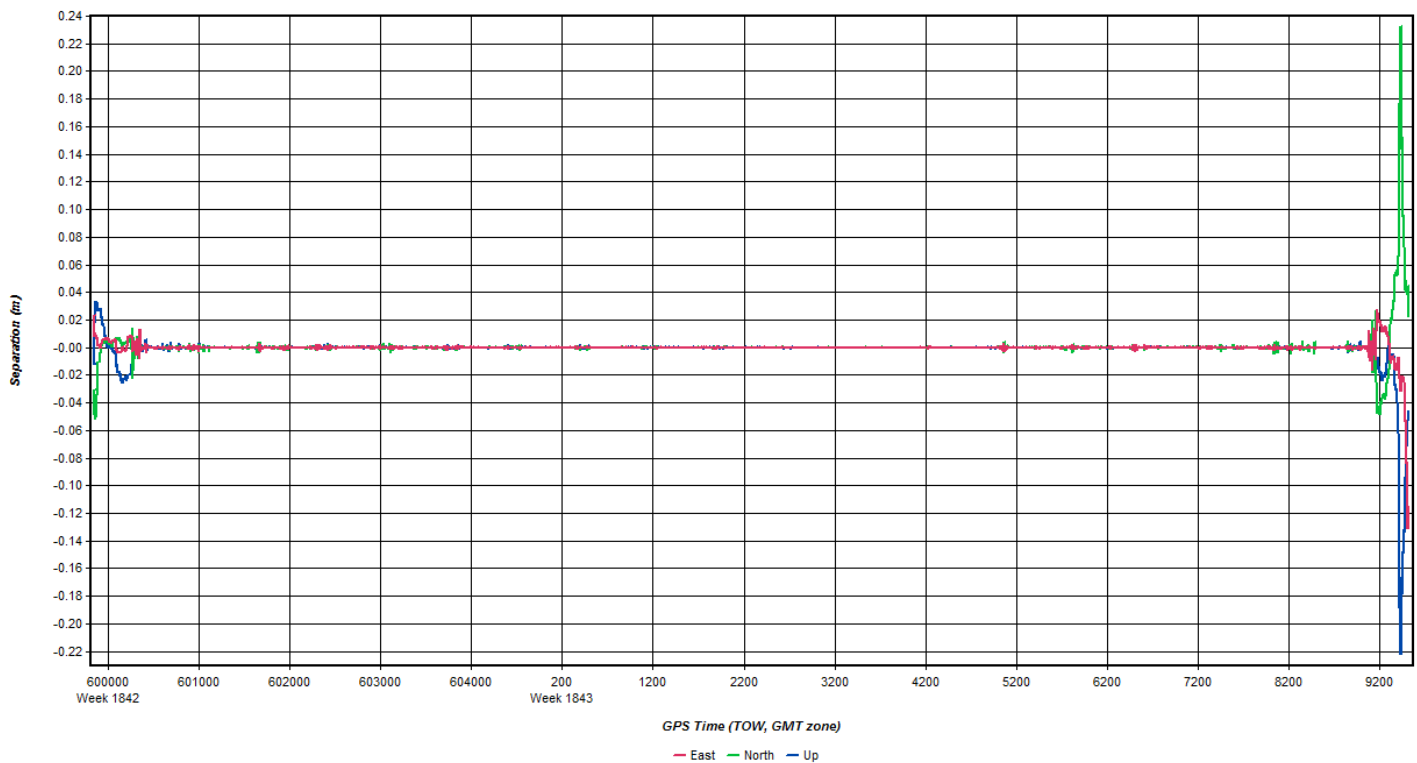
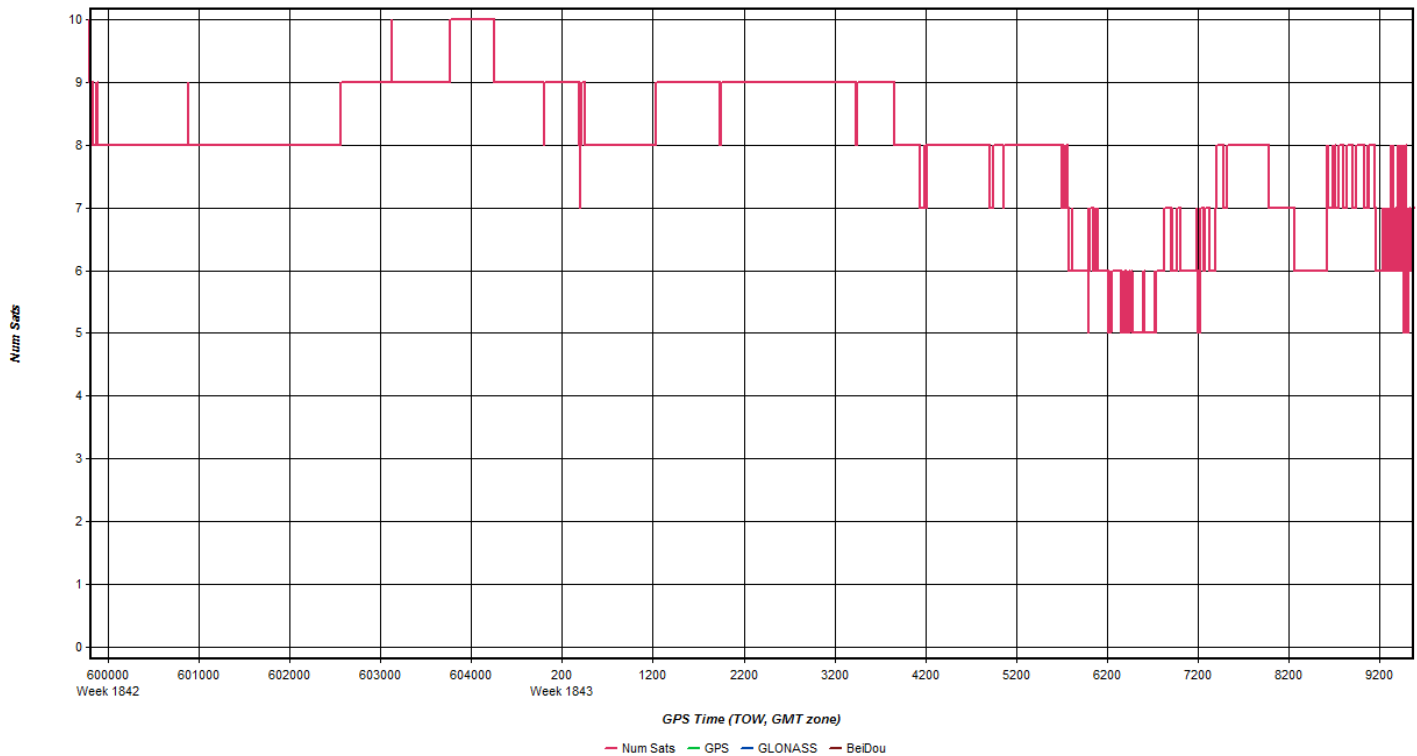
Coordinates
Latitude: North 44 18 13.92280 Compute from PPP
Longitude: West 74 04 42.07519 Enter Grid Values
Ellipsoidal height: 466.846 m Enter MSL Height
Datum: NAD83(2011) Datum Options
Select From Favorites Add To Favorites Use Average Position

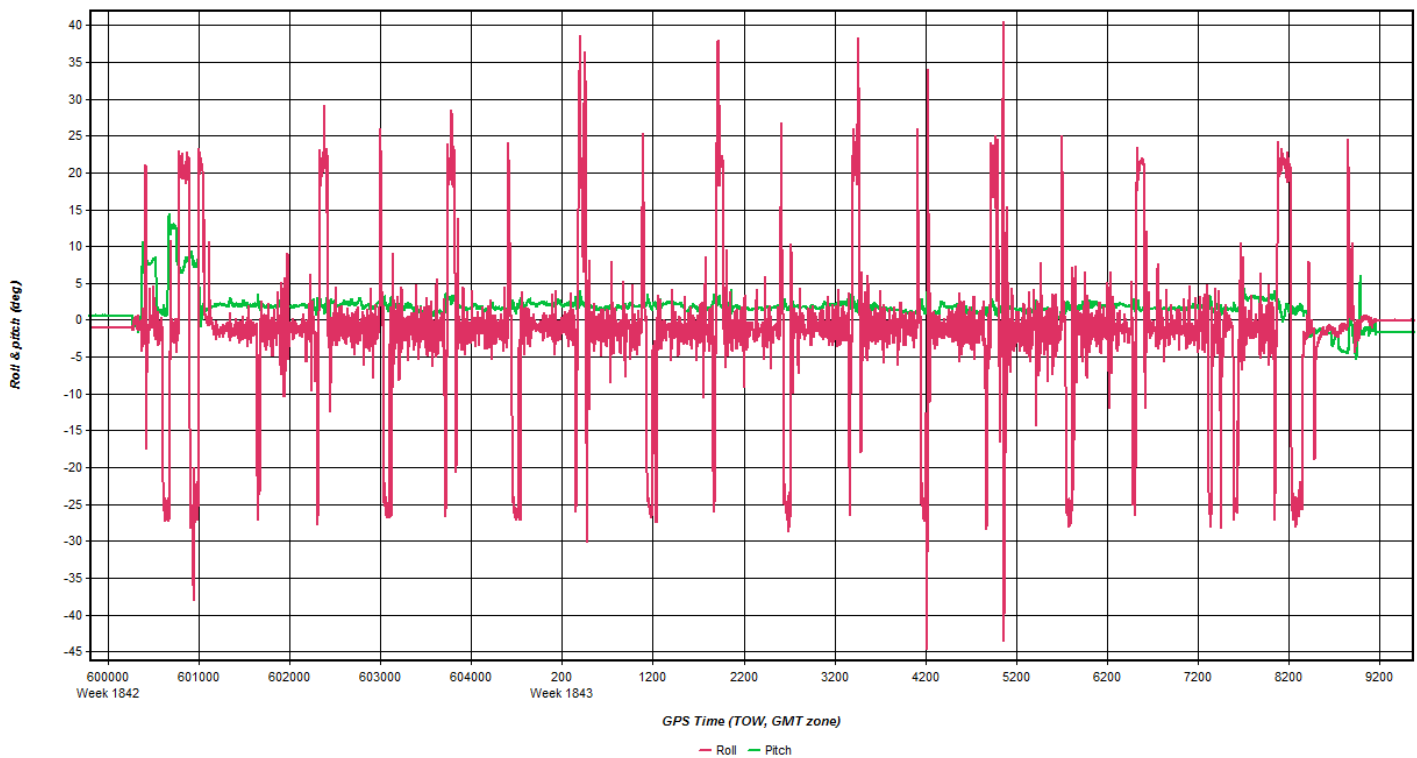
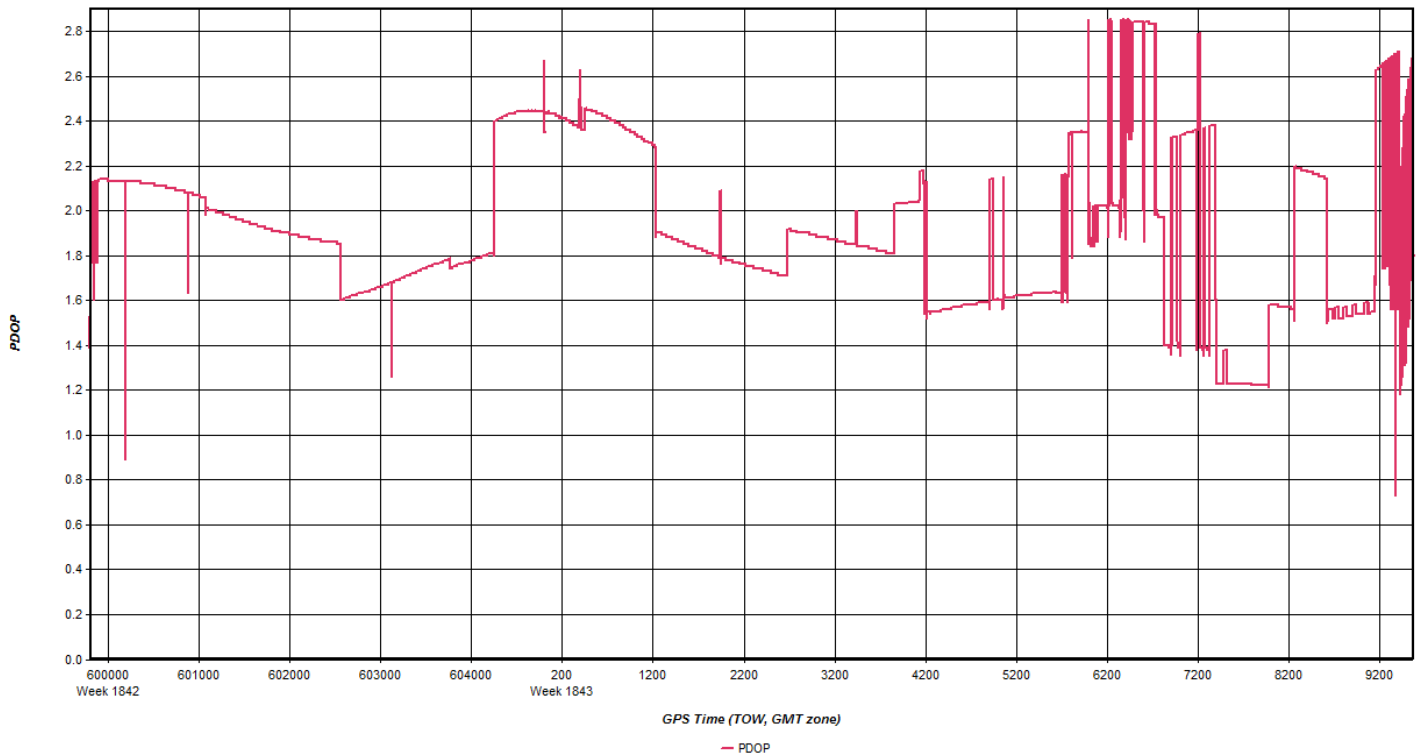
Antenna Height
From station file: LEIAT504GG, LEIS View STA File
Antenna profile: LEIAT504GG, LEIS Info
Measured height: 0.000 m Measured to
ARP to L1 offset: 0.087 m ☒ ARP
Applied height: 0.087 m ☐ L1 Phase Centre
Compute From Slant

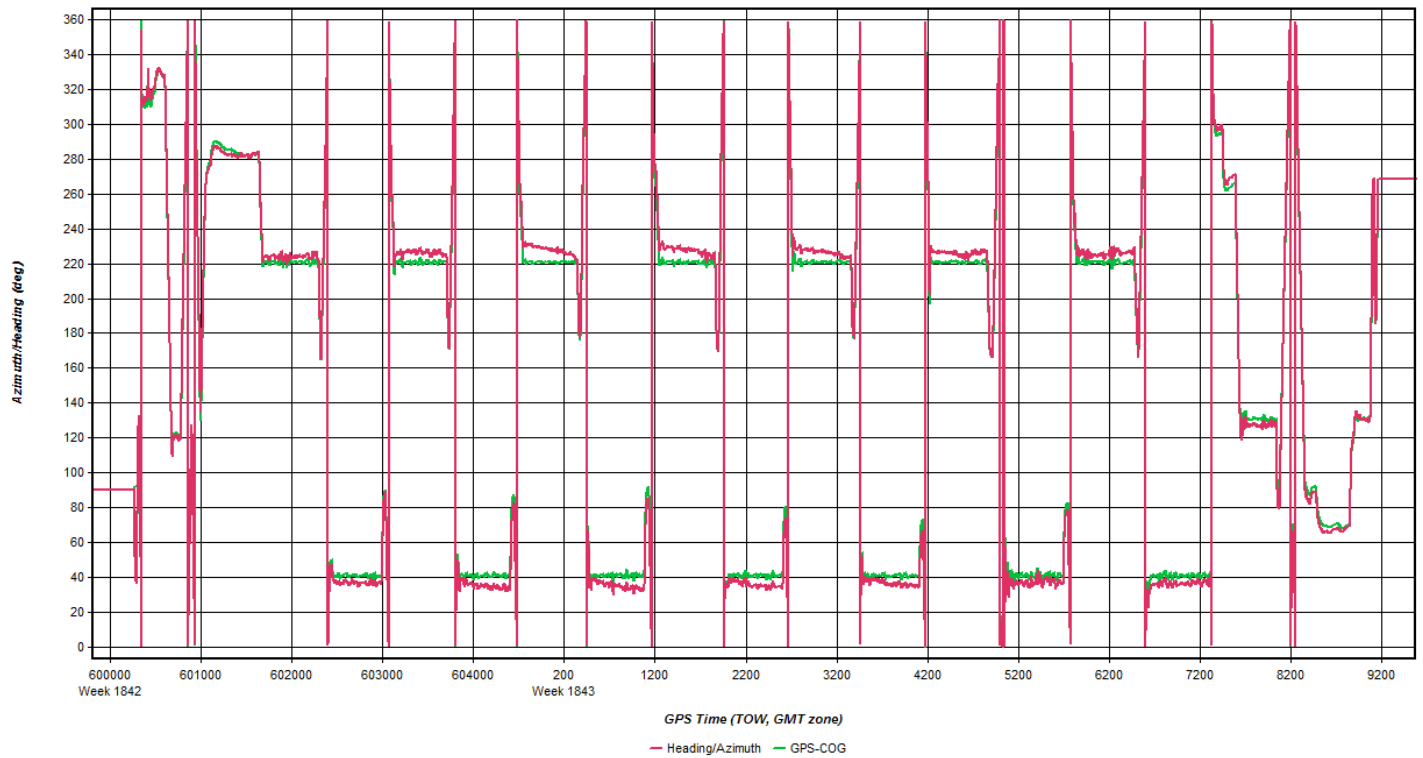
OK Cancel

May 2, 2015-B (7121)









Base Station Log

Coordinate/Antenna Settings

Master Remote

Base Station
 1: NYRB Name: NYRB ☐ Disabled
 File: D:\Proc\From_Kucera\rawlaser\20150502_223255\GW_Proc_5-4

Coordinates
 Latitude: North 44 18 13.92280 Compute from PPP
 Longitude: West 74 04 42.07519 Enter Grid Values
 Ellipsoidal height: 466.846 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

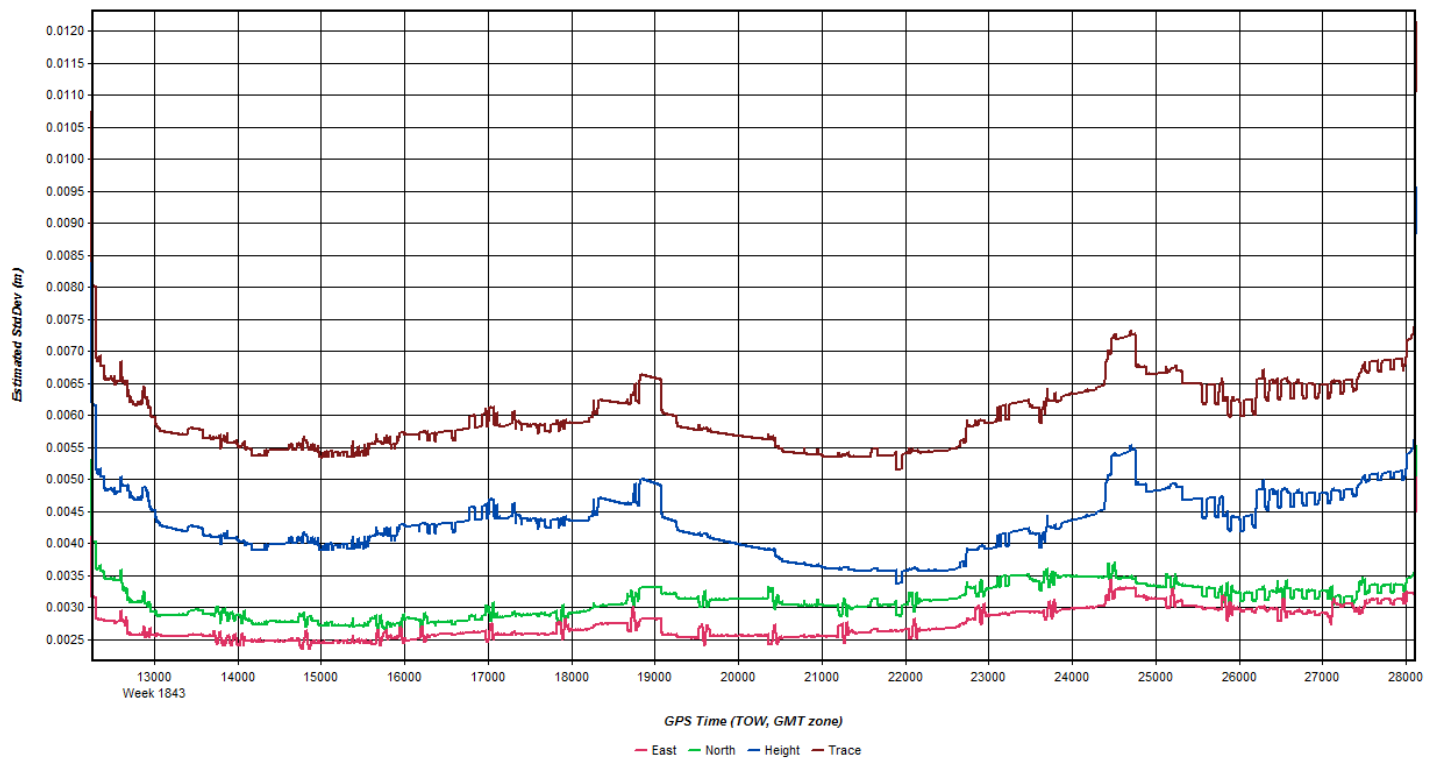
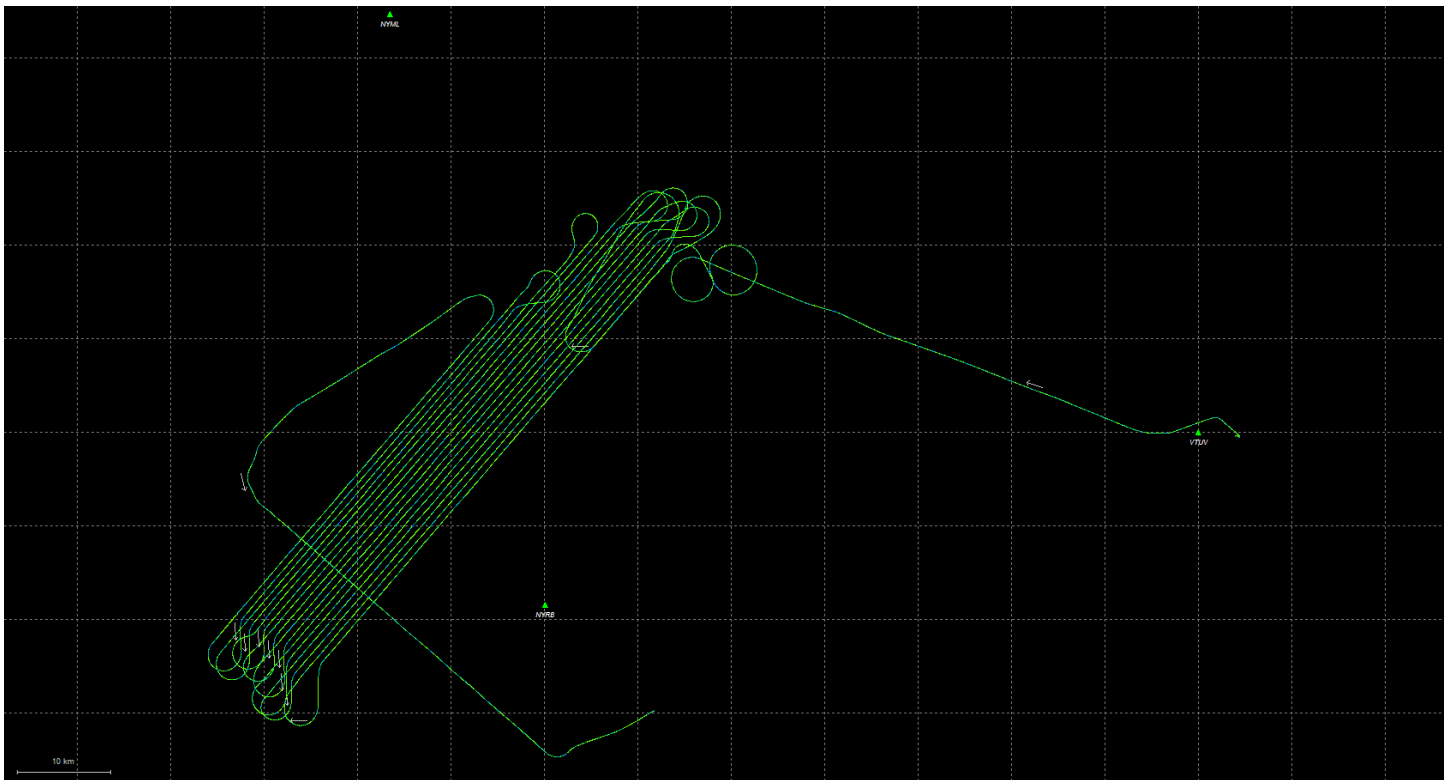
Antenna Height
 From station file: LEIAT504GG, LEIS View STA File
 Antenna profile: LEIAT504GG, LEIS Info

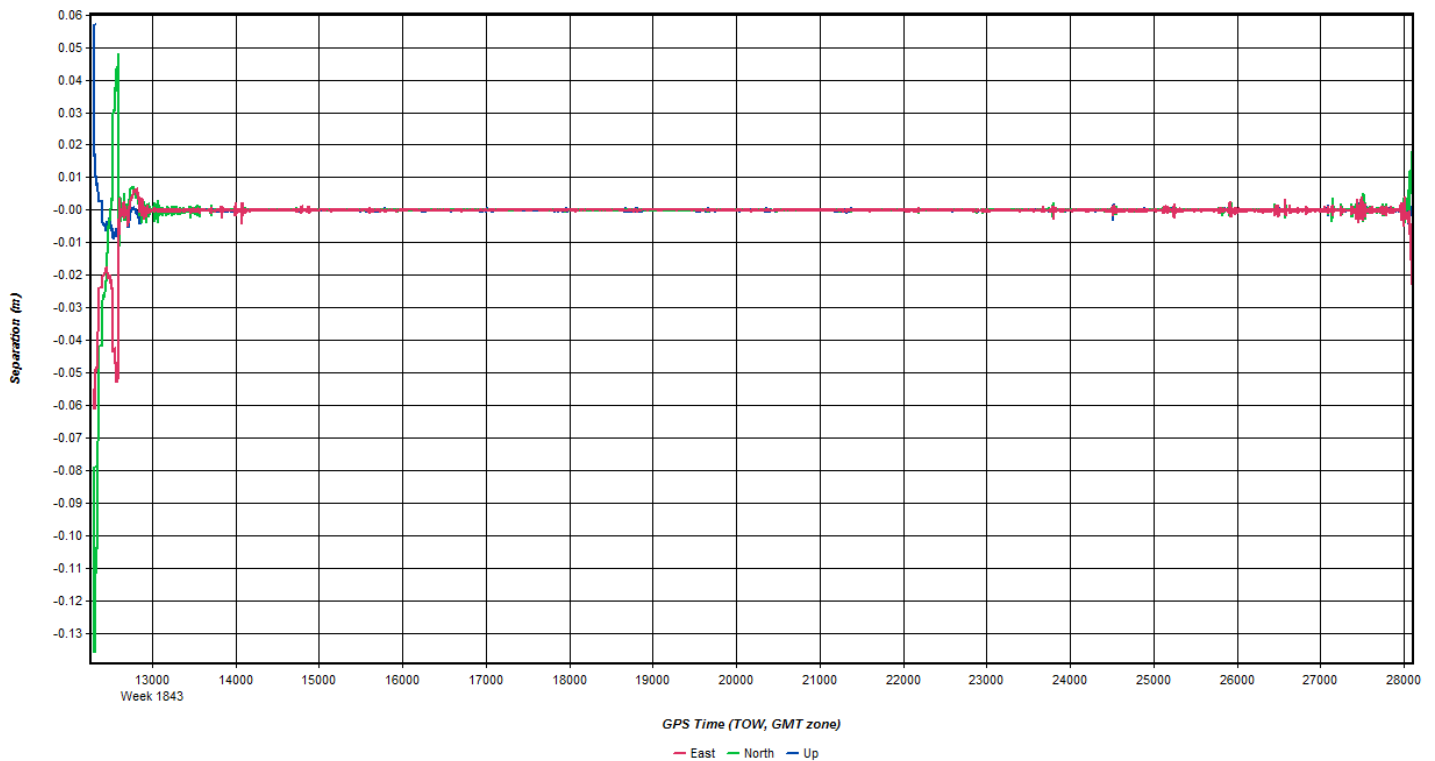
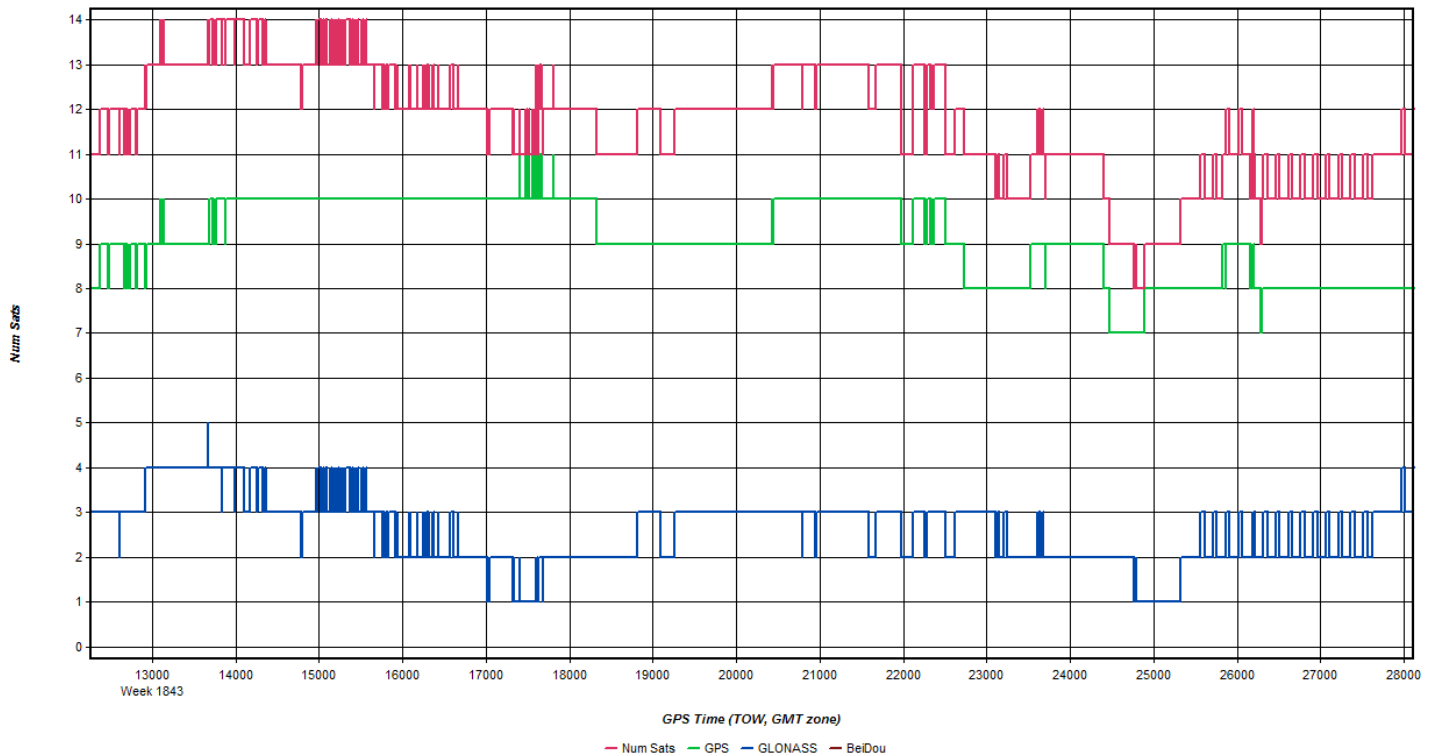
Measured height: 0.000 m
 ARP to L1 offset: 0.087 m
 Applied height: 0.087 m

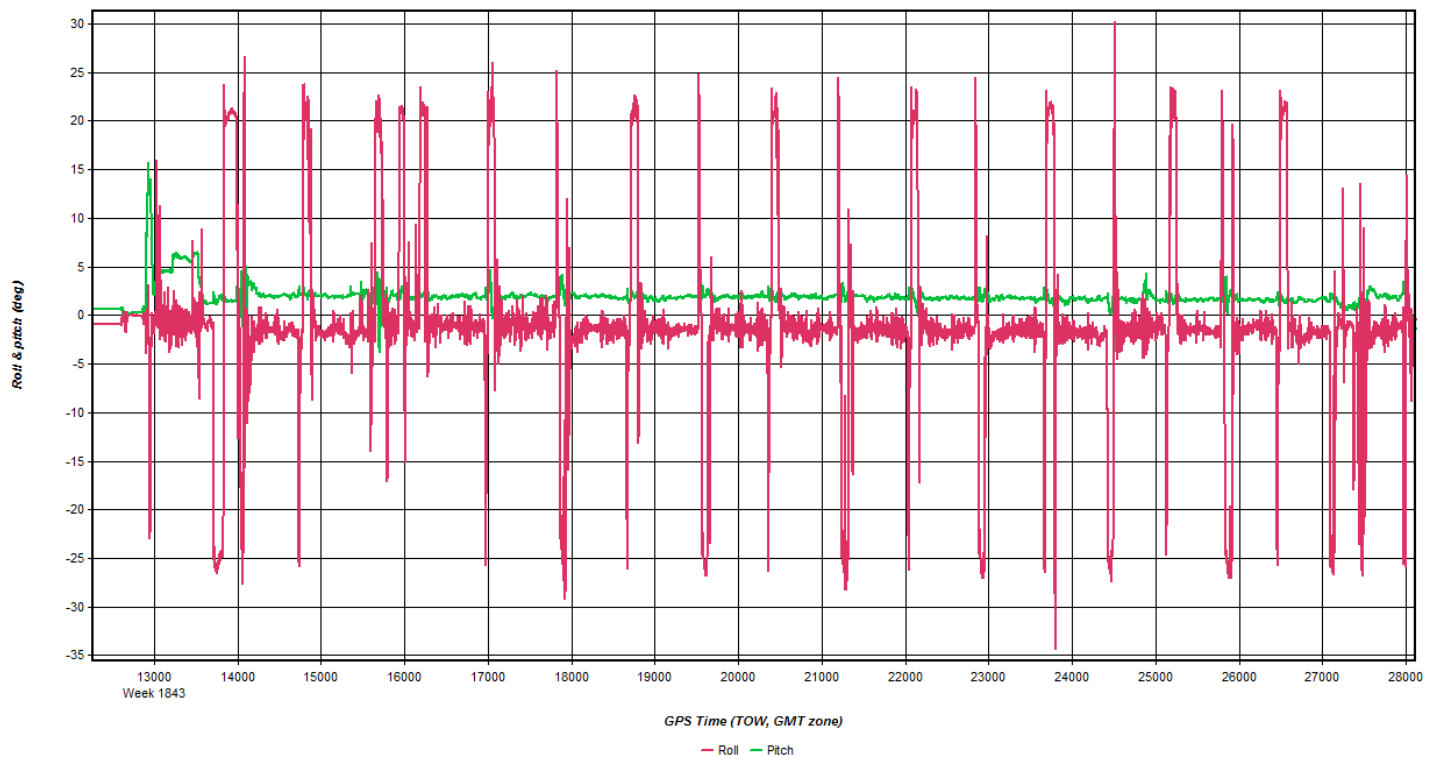
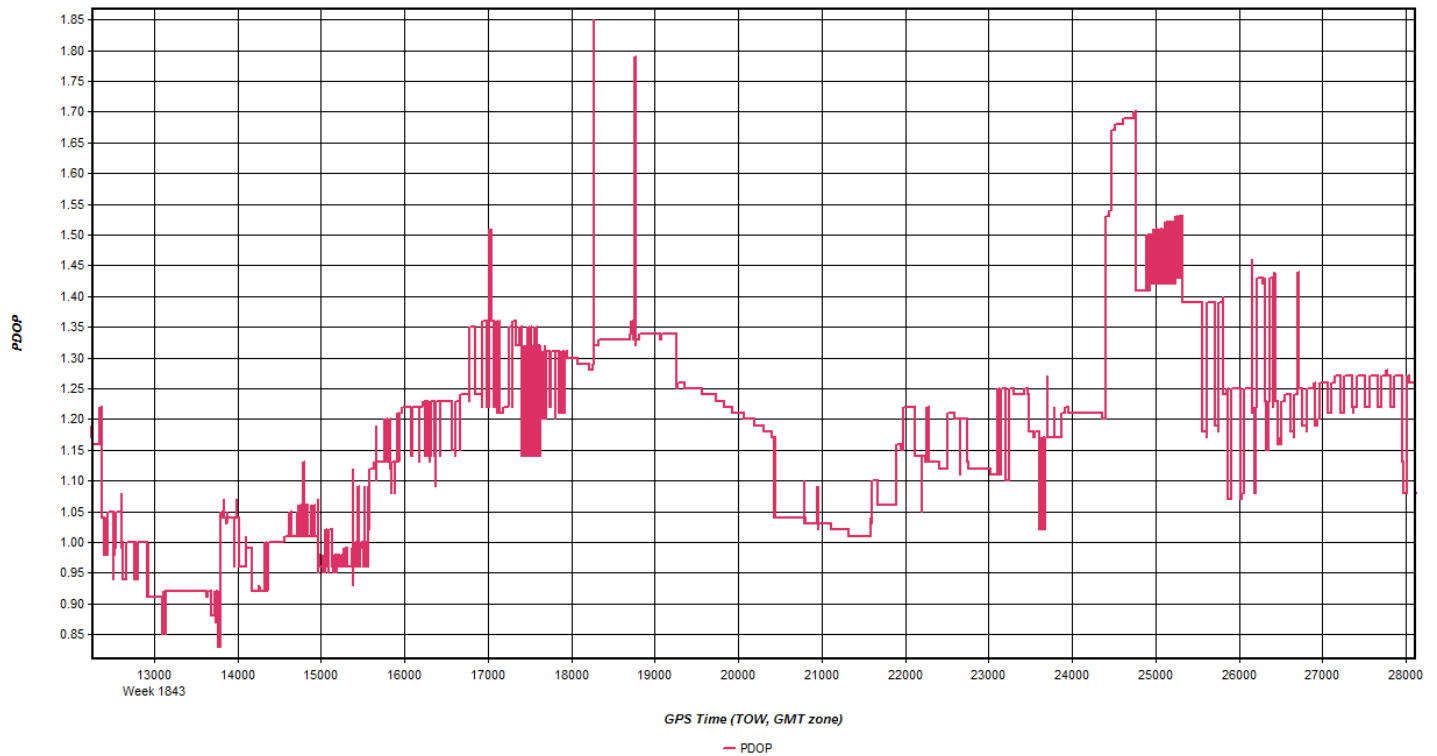
Measured to
☒ ARP
☐ L1 Phase Centre
 Compute From Slant

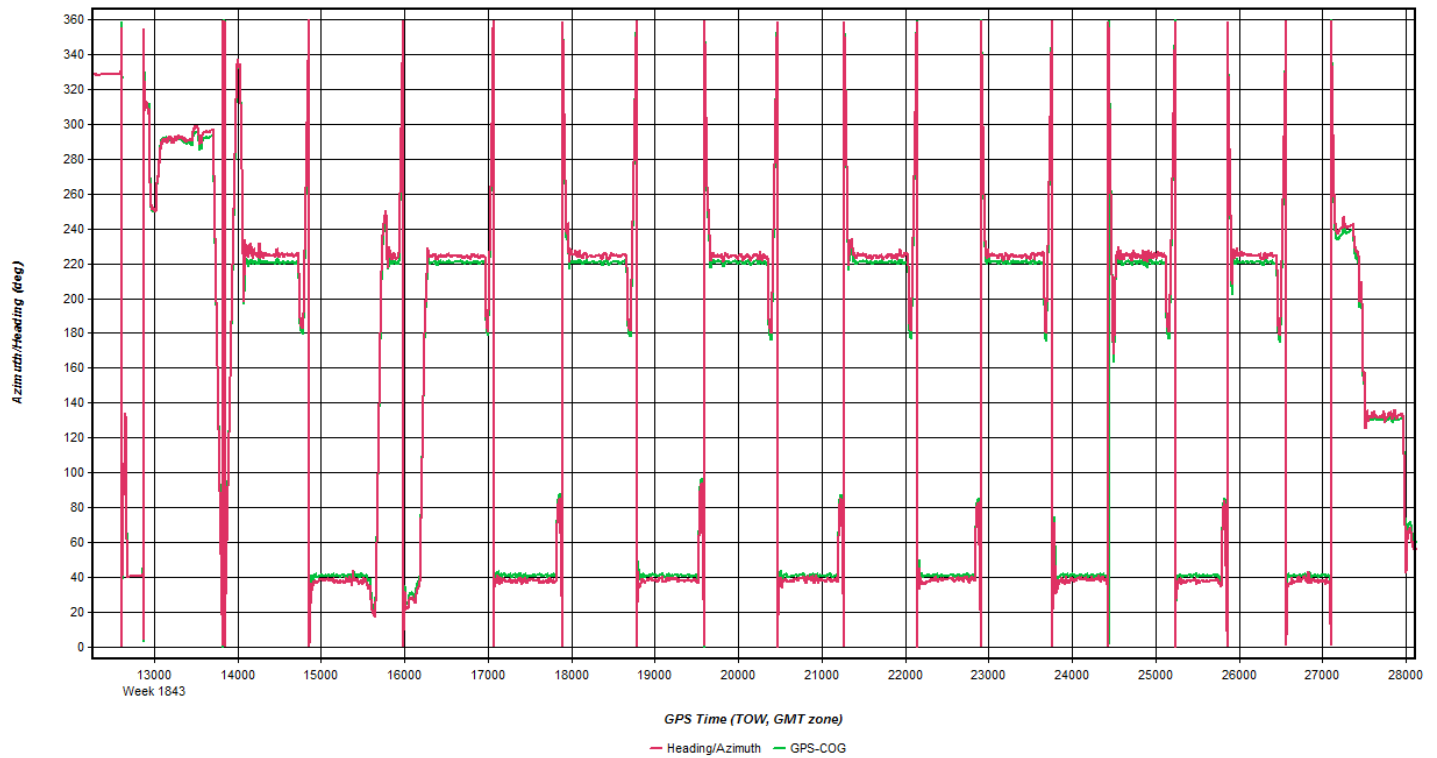
OK Cancel

May 3, 2015-A (7121)









Base Station Log

Coordinate/Antenna Settings

Master Remote

Base Station
 3: NYML Name: NYML ☐ Disabled
 File: D:\Proc\From_Kucera\rawlaser\20150503_032016\GW_Proc_5-

Coordinates
 Latitude: North 44 52 15.38494 Compute from PPP
 Longitude: West 74 17 17.34324 Enter Grid Values
 Ellipsoidal height: 195.213 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

Antenna Height
 From station file: LEIAT504, LEIS View STA File
 Antenna profile: LEIAT504, LEIS Info
 Measured height: 0.000 m
 ARP to L1 offset: 0.088 m
 Applied height: 0.088 m
 Measured to
☒ ARP
☐ L1 Phase Centre
 Compute From Slant

OK Cancel

Coordinate/Antenna Settings

Master Remote

Base Station
 2: NYRB Name: NYRB ☐ Disabled
 File: D:\Proc\From_Kucera\rawlaser\20150503_032016\GW_Proc_5-

Coordinates
 Latitude: North 44 18 13.92280 Compute from PPP
 Longitude: West 74 04 42.07519 Enter Grid Values
 Ellipsoidal height: 466.846 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

Antenna Height
 From station file: LEIAT504GG, LEIS View STA File
 Antenna profile: LEIAT504GG, LEIS Info
 Measured height: 0.000 m
 ARP to L1 offset: 0.087 m
 Applied height: 0.087 m
 Measured to
☒ ARP
☐ L1 Phase Centre
 Compute From Slant

OK Cancel

Coordinate/Antenna Settings

Master Remote

Base Station
 1: VTUV Name: VTUV ☐ Disabled
 File: D:\Proc\From_Kucera\rawlaser\20150503_032016\GW_Proc_5-

Coordinates
 Latitude: North 44 28 09.21279 Compute from PPP
 Longitude: West 73 11 52.37575 Enter Grid Values
 Ellipsoidal height: 112.410 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

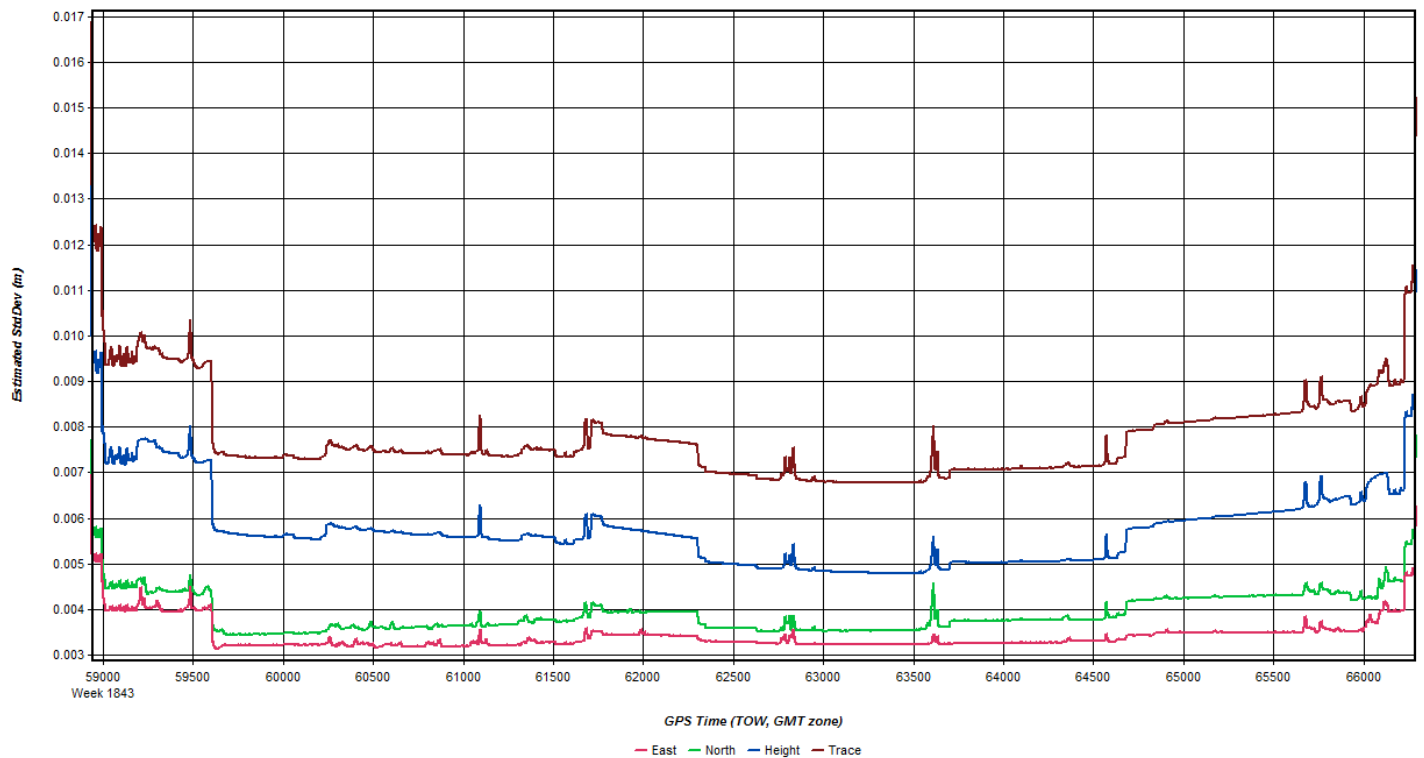
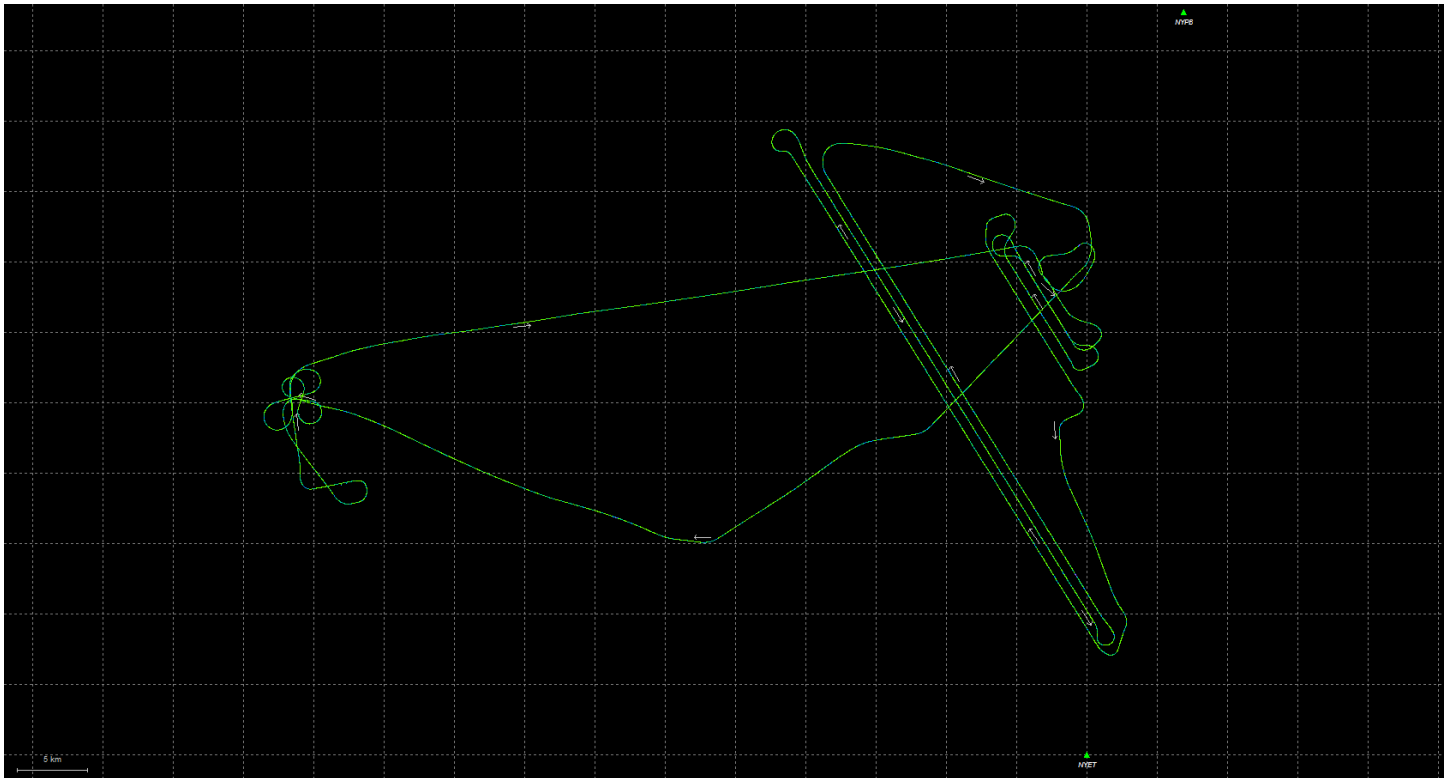
Antenna Height
 From station file: TRM41249.00, TZGD View STA File
 Antenna profile: TRM41249.00, TZGD Info

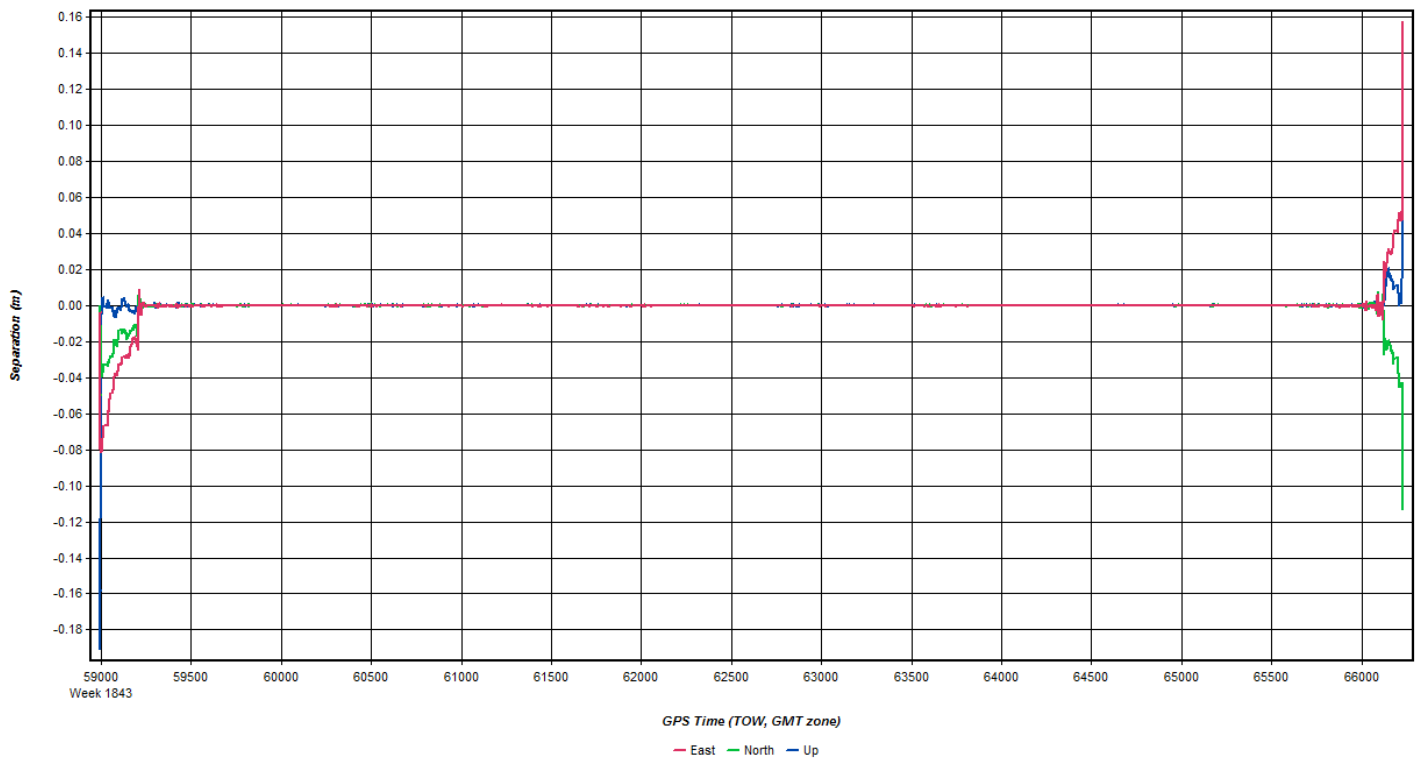
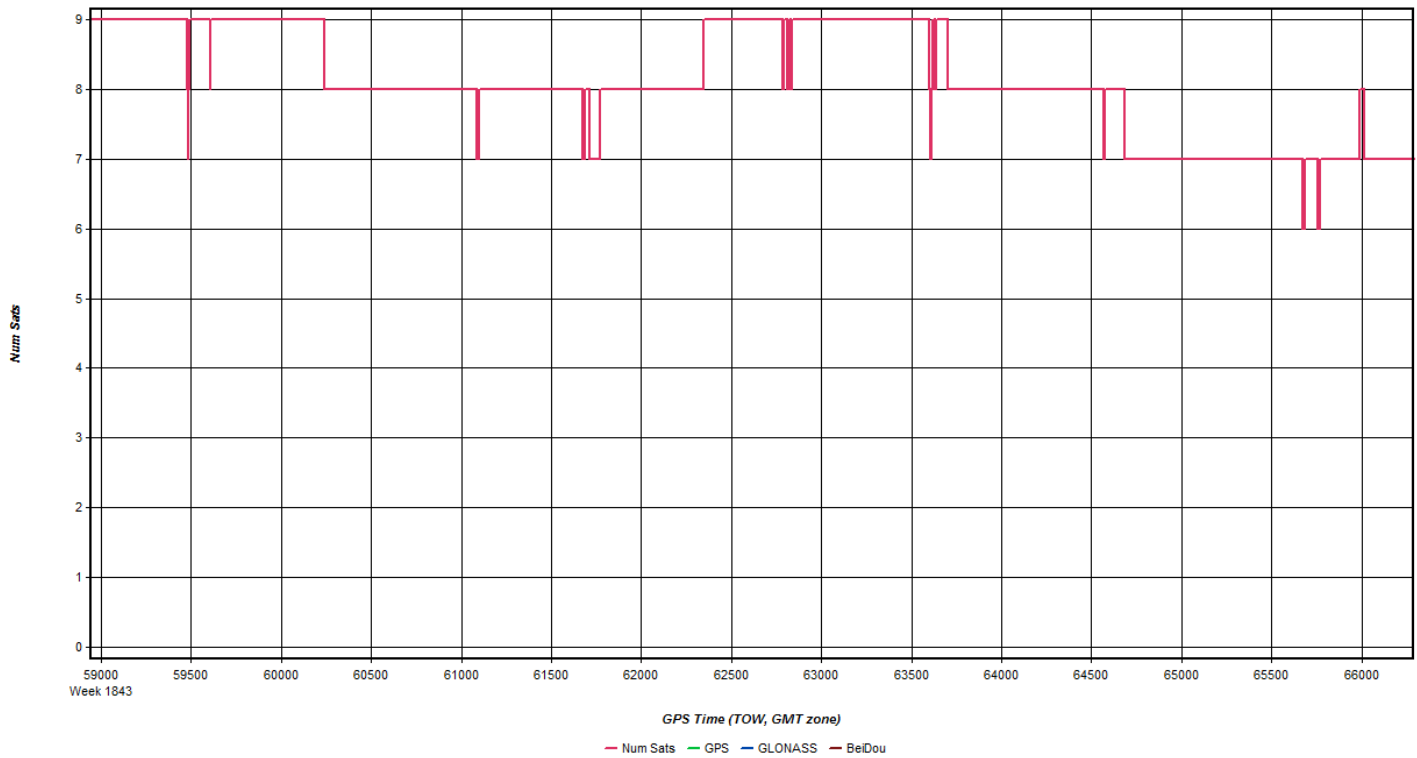
Measured height: 0.000 m
 ARP to L1 offset: 0.055 m
 Applied height: 0.055 m

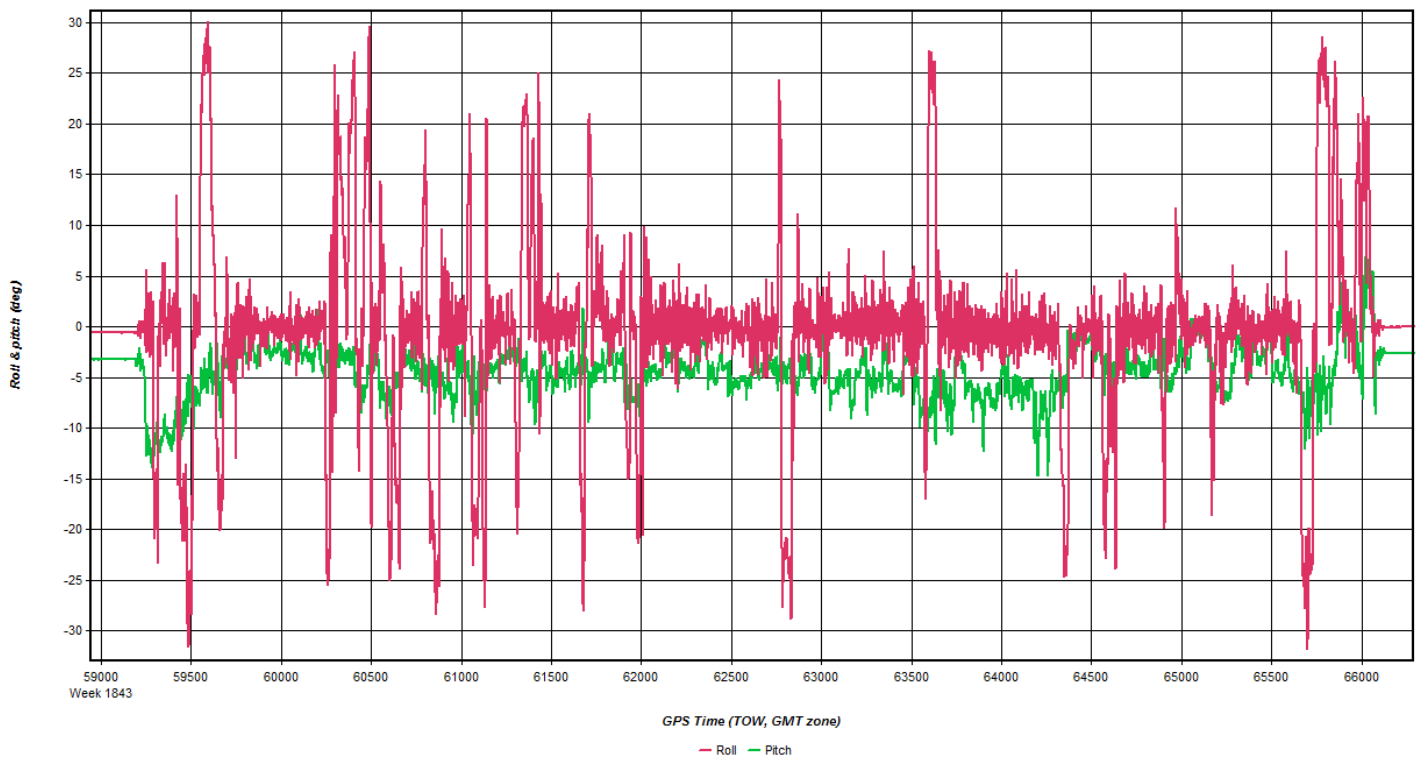
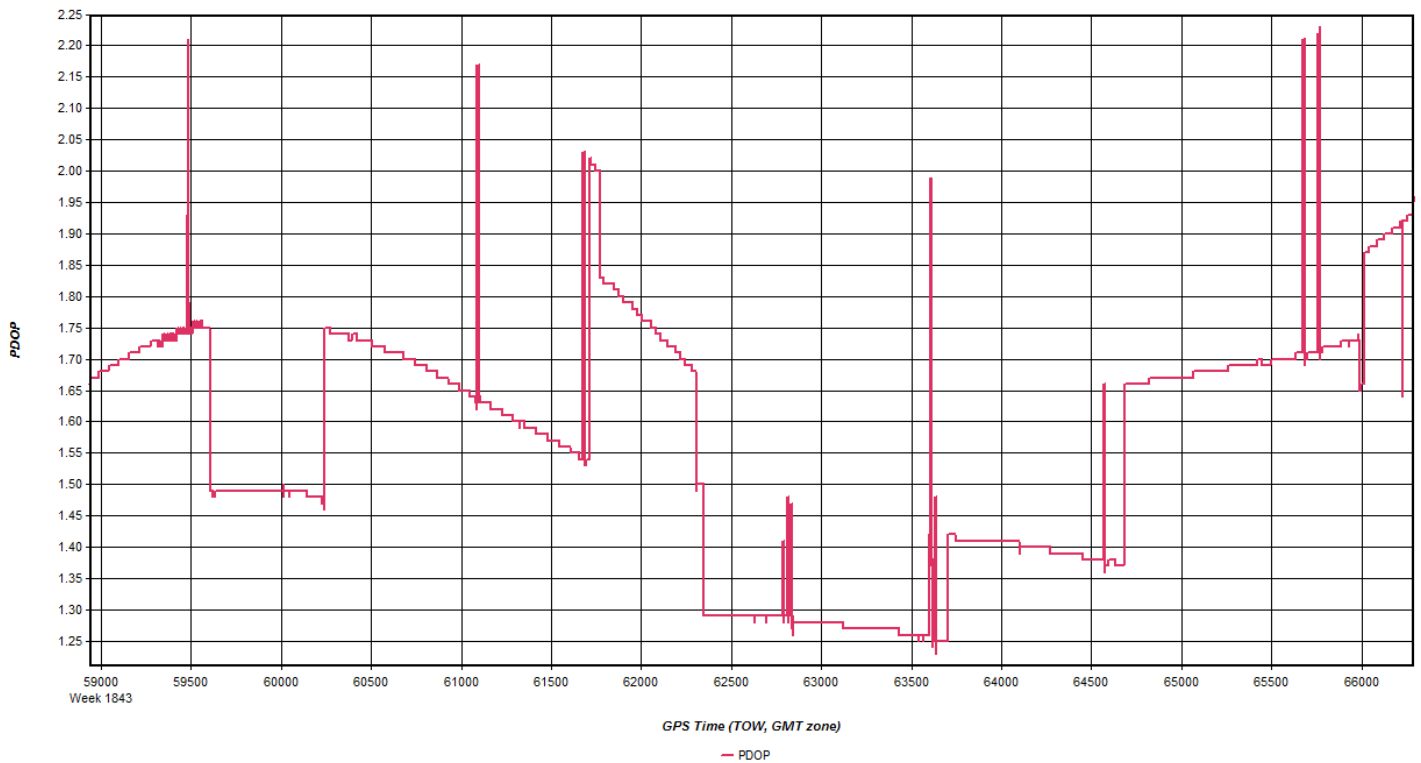
Measured to
☒ ARP
☐ L1 Phase Centre
 Compute From Slant

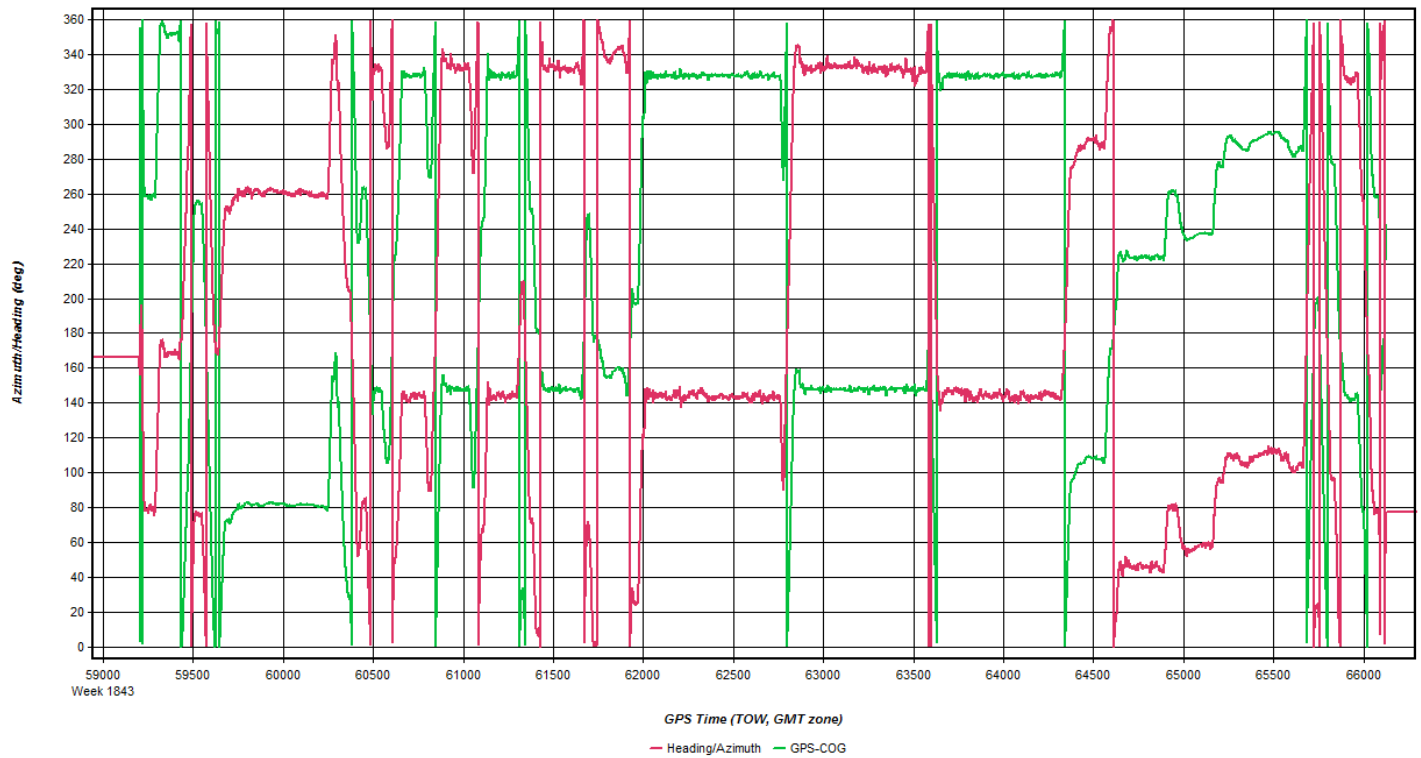
OK Cancel

May 3, 2015-A (7234)









Flight Log

FLIGHT LINE	FL MILES	ALTITUDE (feet)	BASE STATION	DATE FLOWN	S/N	FIELD QC	COMMENTS
3079	31.13 2563	6260		150503	SLN		171333 (→)
3080	30.78 2563	6247					
3081	30.42 2563	6243					
3082	30.05 2563	6234					
3083	29.64 2563	6234					
3084	29.21 2563	6234					
3085	28.78 2563	6276					
3086	28.37 2563	6260					
3087	27.94 2563	6234					
3088	27.18 2563	6230					
3089	26.24 2563	6207					
3090	25.28 2563	6204					
3091	24.06 2563	6250		150503	SLN		171333

Page 7 of 9

Operator Tom Day

AIRCRAFT Tail Number 24791

Pilot Tyler Cousins

Flight Logs should be FAXED to 859-277-8801 immediately after each day's flights with lines and other details noted

Date 150505

Sensor Serial Number

CLINTON ESSEX CHAMPLAIN A

23902 Clinton Essex NY			Area Lake Placid Area SN7234 105kts			Flight Logs	
FLIGHT LINE	FL MILES	ALTITUDE (feet)	BASE STATION	DATE FLOWN	S/N	FIELD QC	COMMENTS
3092	22.61 2563	6240		150503	N46 S		172753 rain / vertix to east
3093	21.19 2563	6237		150503	S6N	Relay	174121 rain / vertix snow
3094	19.77 2563	6234					
3095	18.29 2563	6224					
3096	16.86 2563	6217					
3097	15.44 2563	6211					
3098	13.99 2563	6201					
3099	12.58 2563	6191					
3100	11.18 2563	6188					
3101	9.71 2563	6184					
3102	8.10 2563	6175		150503			
3103	6.42 2563	6099		5/3/2015	N-S	Relay!!	170347 light rain / vertix / snow
3104	4.70 2563	6099		5/3/2015	S6N		165850

Needs Review

Flight Logs should be FAXED to 859-277-8901 immediately after each day's flights with lines and other details noted

Operator TOM DAY
Pilot TYLER COUSINS

AIRCRAFT Tail Number 269JE
Sensor Serial Number SN7234

Page 8 of 9
Date 5-3-2015

Operator TOM DAY AIRCRAFT Tail Number 2697E Page 9 of 9
Pilot TYLER COUSINS Sensor Serial Number SV7234 Date 5-3-2015

Base Station Log

Coordinate/Antenna Settings

Master Remote

Base Station
1: NYET Name: NYET ☐ Disabled
File: D:\Proc\23902_Clinton_Essex\TJCZ\20150503_161609_SEN723

Coordinates
Latitude: North 44 12 34.85080 Compute from PPP
Longitude: West 73 32 25.85231 Enter Grid Values
Ellipsoidal height: 174.246 m Enter MSL Height
Datum: NAD83(2011) Datum Options
Select From Favorites Add To Favorites Use Average Position

Antenna Height
From station file: LEIAT504, LEIS View STA File
Antenna profile: LEIAT504, LEIS Info
Measured height: 0.000 m Measured to
ARP to L1 offset: 0.088 m ☒ ARP
Applied height: 0.088 m ☐ L1 Phase Centre
Compute From Slant

OK Cancel

Coordinate/Antenna Settings

Master Remote

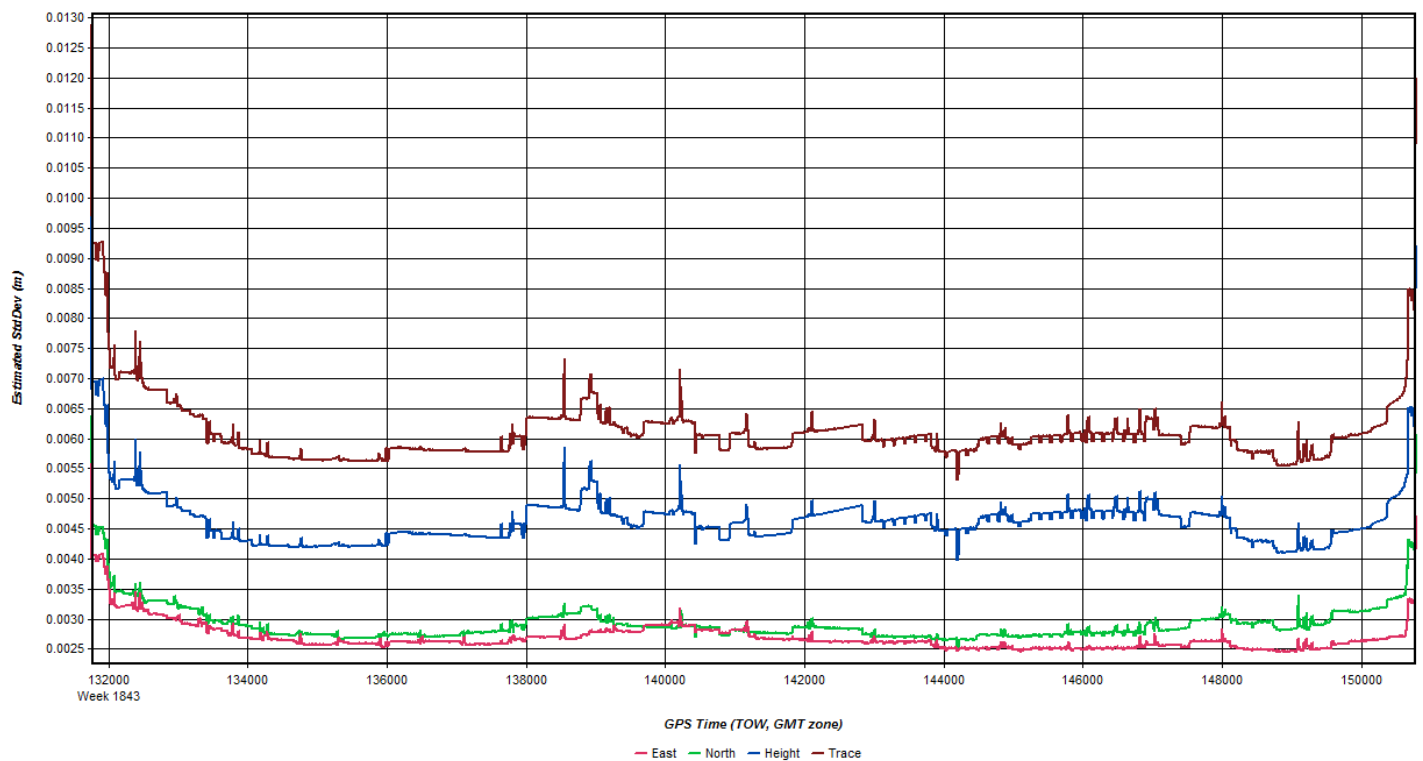
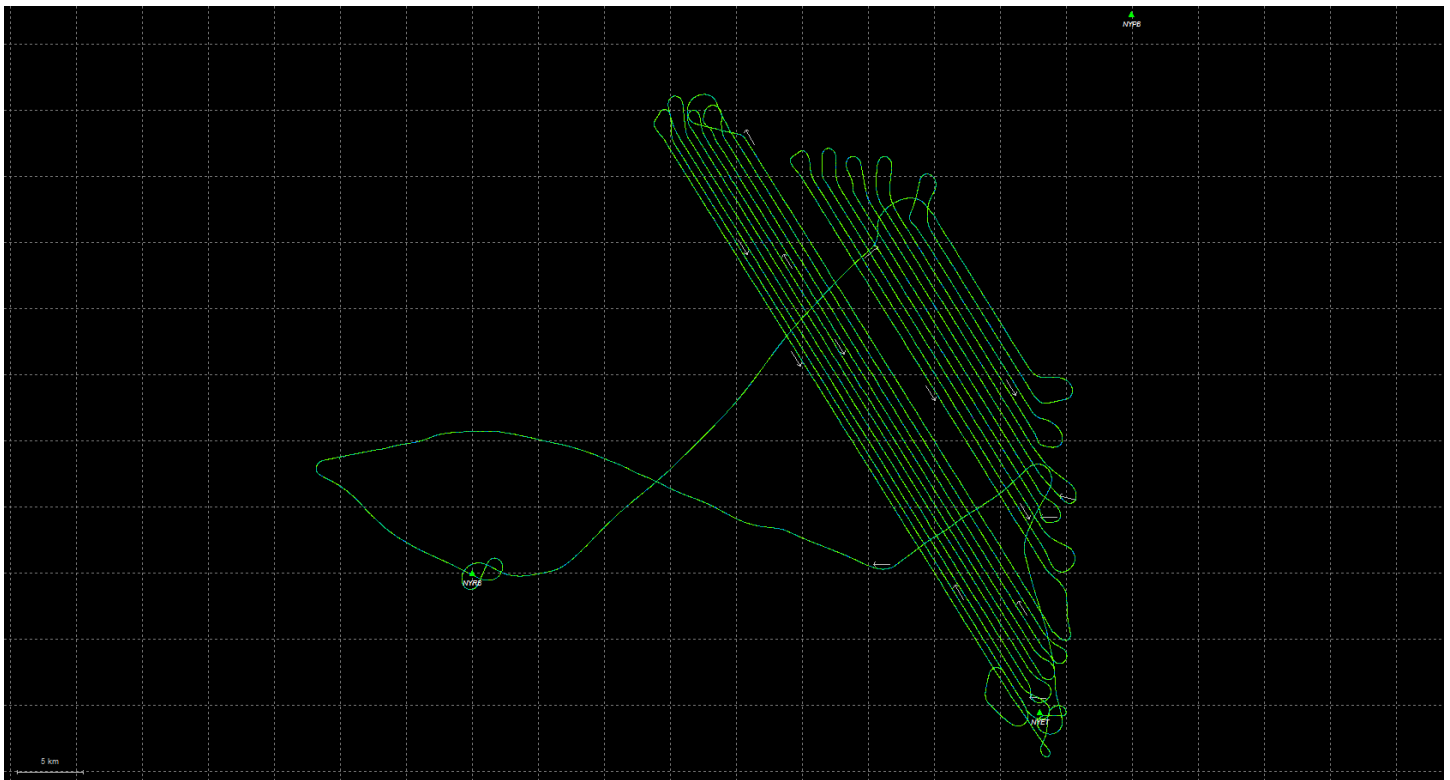
Base Station
2: NYPB Name: NYPB ☐ Disabled
File: D:\Proc\23902_Clinton_Essex\TJCZ\20150503_161609_SEN723

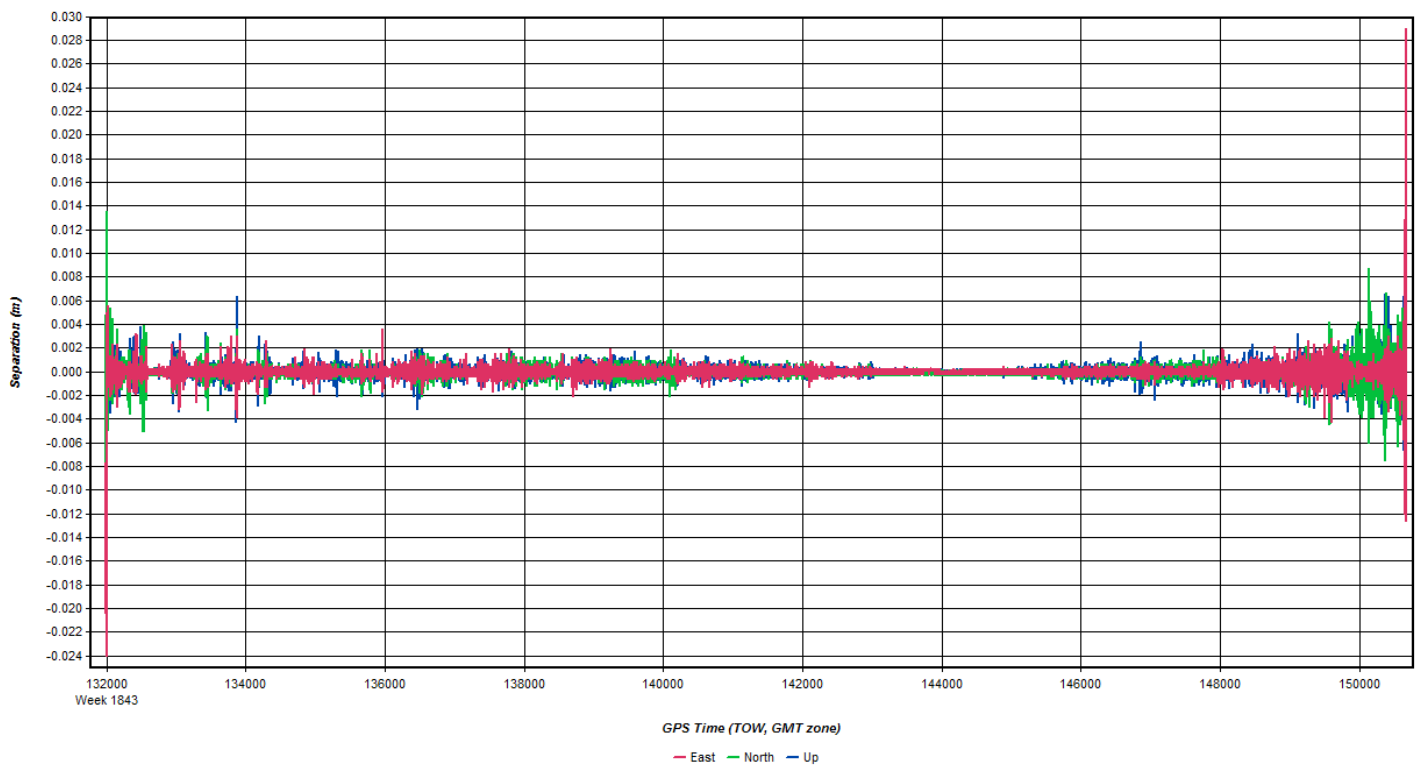
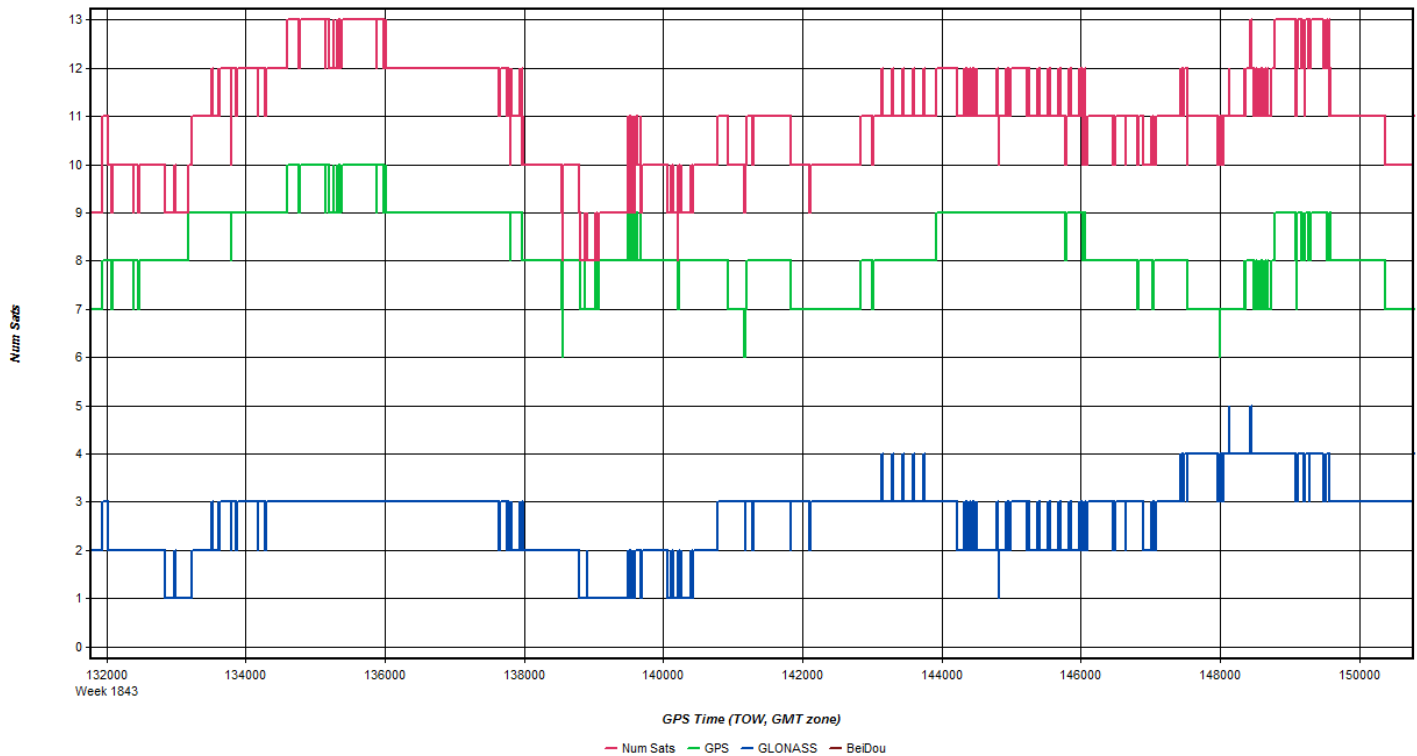
Coordinates
Latitude: North 44 40 50.58254 Compute from PPP
Longitude: West 73 27 14.30528 Enter Grid Values
Ellipsoidal height: 30.150 m Enter MSL Height
Datum: NAD83(2011) Datum Options
Select From Favorites Add To Favorites Use Average Position

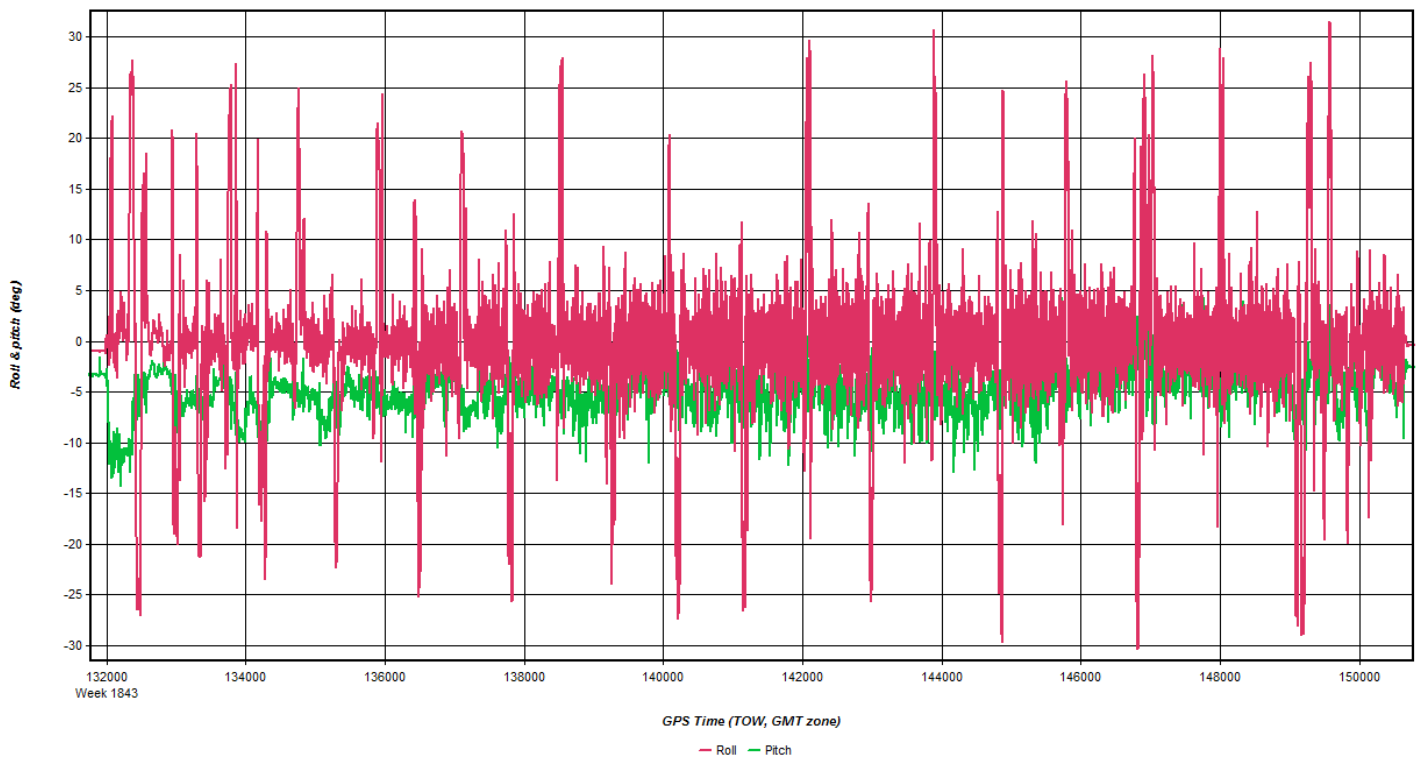
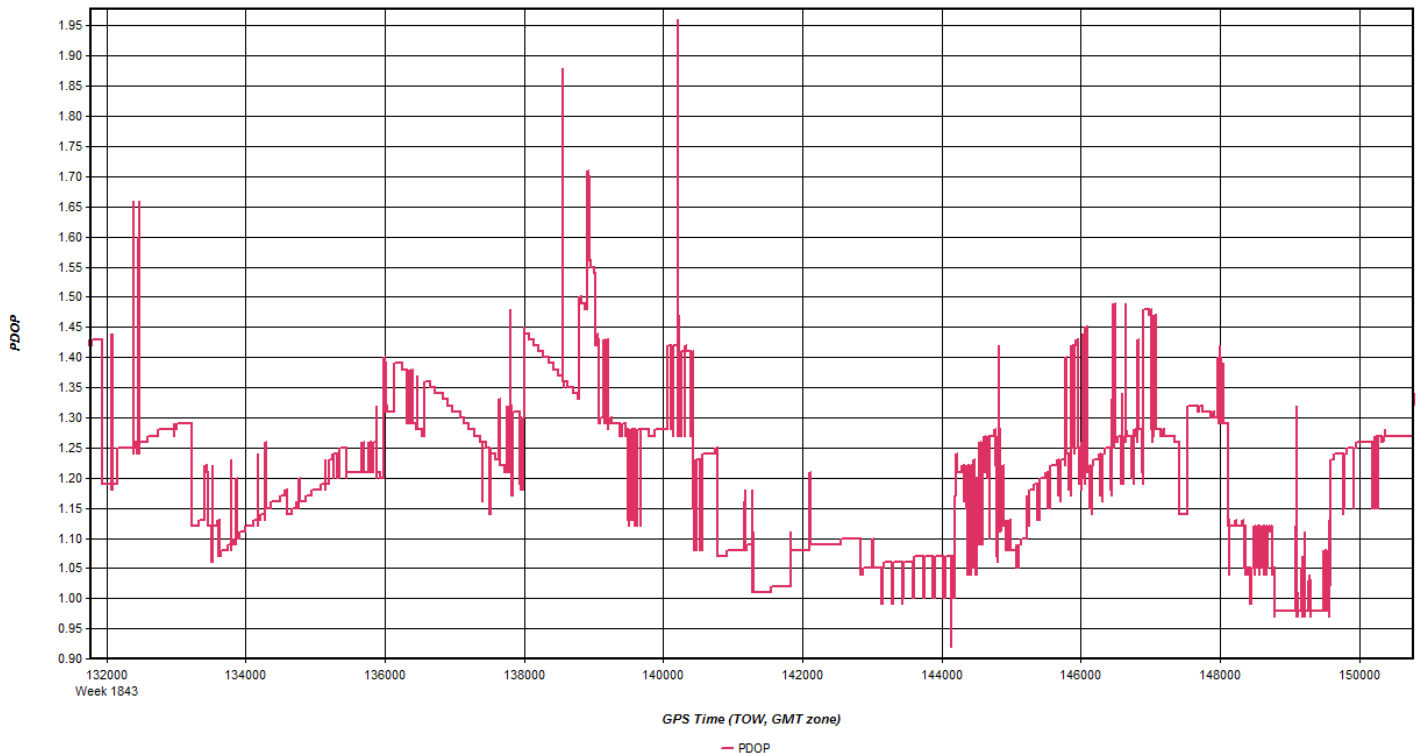
Antenna Height
From station file: LEIAT504, LEIS View STA File
Antenna profile: LEIAT504, LEIS Info
Measured height: 0.000 m Measured to
ARP to L1 offset: 0.088 m ☒ ARP
Applied height: 0.088 m ☐ L1 Phase Centre
Compute From Slant

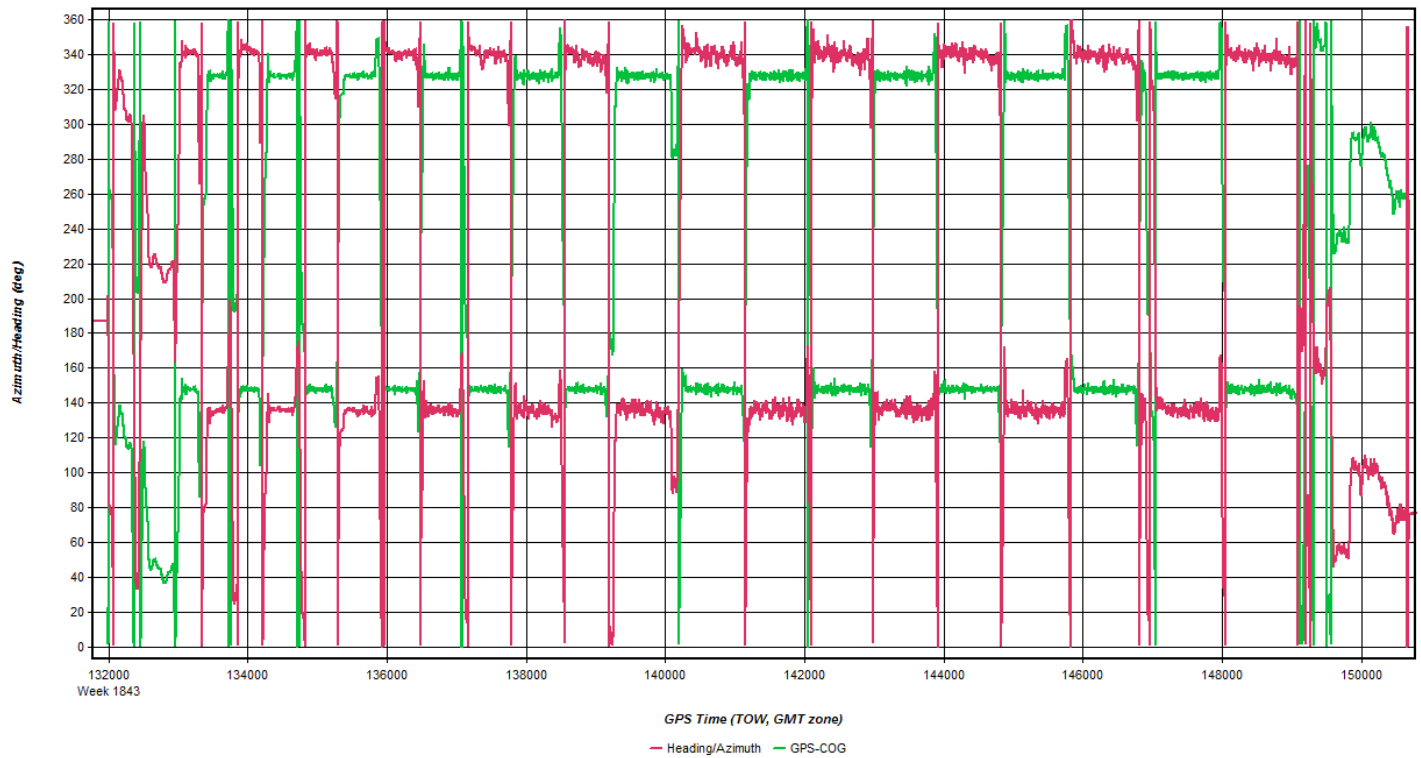
OK Cancel

May 4, 2015-A (7234)









Flight Log

23902 Clinton Essex NY Area Lake Placid Area SN7234 105kts

Contact: J. Berry
at 859-277-8700

Flight Logs

FLIGHT LINE	FL MILES	ALTITUDE (feet)	BASE STATION	DATE FLOWN	SN	FIELD QC	COMMENTS
3079	31.13 2563	6260		180505 180503	S-N N-S	151657	171333
3080	30.78 2563	6247		180505	S-N	145902	First line / smooth... so far!!
3081	30.42 2563	6243		180504	N-S	170745	last line. UPL 173339
3082	30.05 2563	6234		180504	S-N	165111	off flow line before (165111) (N-S)
3083	29.64 2563	6234		180504	N-S	163104	windy
3084	29.21 2563	6234		180504	S-N	161147	first
3085	28.78 2563	6276		180501	N-S	155850	bump up / JES
3086	28.37 2563	6260		180504	S-N	154342	
3087	27.94 2563	6234		180504	N-S	152833	long lines
3088	27.18 2563	6230		180504	S-N	151328	lots of wind
3089	26.24 2563	6207		180504	N-S	145918	
3090	25.28 2563	6204		180504	S-N	144447	new line / low
3091	24.06 2563	6250		180503	S-N	171333	171333

Operator TOM DAY
Pilot JYKZK GOWINS

AIRCRAFT Tail Number 24735
Sensor Serial Number

Date 180505
Page 7 of 9

Flight Logs should be FAXED to 859-277-8901 immediately after each day's flights with lines and other details noted

CLINTON ESSEX AREA

23902 Clinton Essex NY Area Lake Placid Area SN7234 105kts Flight Logs

Contact: J. Berry
at 858-277-8700

FLIGHT LINE	FL MILES	ALTITUDE (feet)	BASE STATION	DATE FLOWN	S/N	FIELD QC	COMMENTS
3092	22.61 2563	6240		150503	N46 S		172753 rain / veta to east
3093	21.19 2563	6237		150504 150503	N-S S-N	142912 142912	174121 per rain / veta snow on line
3094	19.77 2563	6234		150504	S-N	141729	
3095	18.29 2563	6224		150504	N-S	140609	cloudy fogging
3096	16.86 2563	6217		150504	S-N	135529	getting bumpier
3097	15.44 2563	6211		150504	N-S	134601	
3098	13.99 2563	6201		150504	S-N	135624	
3099	12.58 2563	6191		150504	N-S	132713	
3100	11.18 2563	6188		150504	S-N	131824	
3101	9.71 2563	6184		150504	N-S	131056	
3102	8.10 2563	6175		150504	S-N	130351	
3103	6.42 2563	6099		5/13/2015	N-S N-S	133752 170347	light rain / veta / snow
3104	4.70 2563	6099		5/13/2015	S-N	165850	

Operator TOM DAY
Pilot Tyler Cousins
AIRCRAFT Tail Number 26912
Sensor Serial Number SN7234
Page 8 of 9
Date 5-3-2015

Flight Logs should be FAXED to 858-277-8901 immediately after each day's flights with lines and other details noted

Base Station Log

Coordinate/Antenna Settings

Master Remote

Base Station
2: NYET Name: NYET ☐ Disabled
File: D:\Proc\23902_Clinton_Essex\TJCZ\20150504_123058_SEN723

Coordinates
Latitude: North 44 12 34.85080 Compute from PPP
Longitude: West 73 32 25.85231 Enter Grid Values
Ellipsoidal height: 174.246 m Enter MSL Height
Datum: NAD83(2011) Datum Options
Select From Favorites Add To Favorites Use Average Position

Antenna Height
From station file: LEIAT504, LEIS View STA File
Antenna profile: LEIAT504, LEIS Info
Measured height: 0.000 m
ARP to L1 offset: 0.088 m
Applied height: 0.088 m
Measured to
☒ ARP
☐ L1 Phase Centre
Compute From Slant

OK Cancel

Coordinate/Antenna Settings

Master Remote

Base Station
3: NYPB Name: NYPB ☐ Disabled
File: D:\Proc\23902_Clinton_Essex\TJCZ\20150504_123058_SEN723

Coordinates
Latitude: North 44 40 50.58254 Compute from PPP
Longitude: West 73 27 14.30528 Enter Grid Values
Ellipsoidal height: 30.150 m Enter MSL Height
Datum: NAD83(2011) Datum Options
Select From Favorites Add To Favorites Use Average Position

Antenna Height
From station file: LEIAT504, LEIS View STA File
Antenna profile: LEIAT504, LEIS Info
Measured height: 0.000 m
ARP to L1 offset: 0.088 m
Applied height: 0.088 m
Measured to
☒ ARP
☐ L1 Phase Centre
Compute From Slant

OK Cancel

Coordinate/Antenna Settings

Master Remote

Base Station
 1: NYRB Name: NYRB ☐ Disabled
 File: D:\Proc\23902_Clinton_Essex\TJCZ\20150504_123058_SEN723

Coordinates
 Latitude: North 44 18 13.92280 Compute from PPP
 Longitude: West 74 04 42.07519 Enter Grid Values
 Ellipsoidal height: 466.846 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

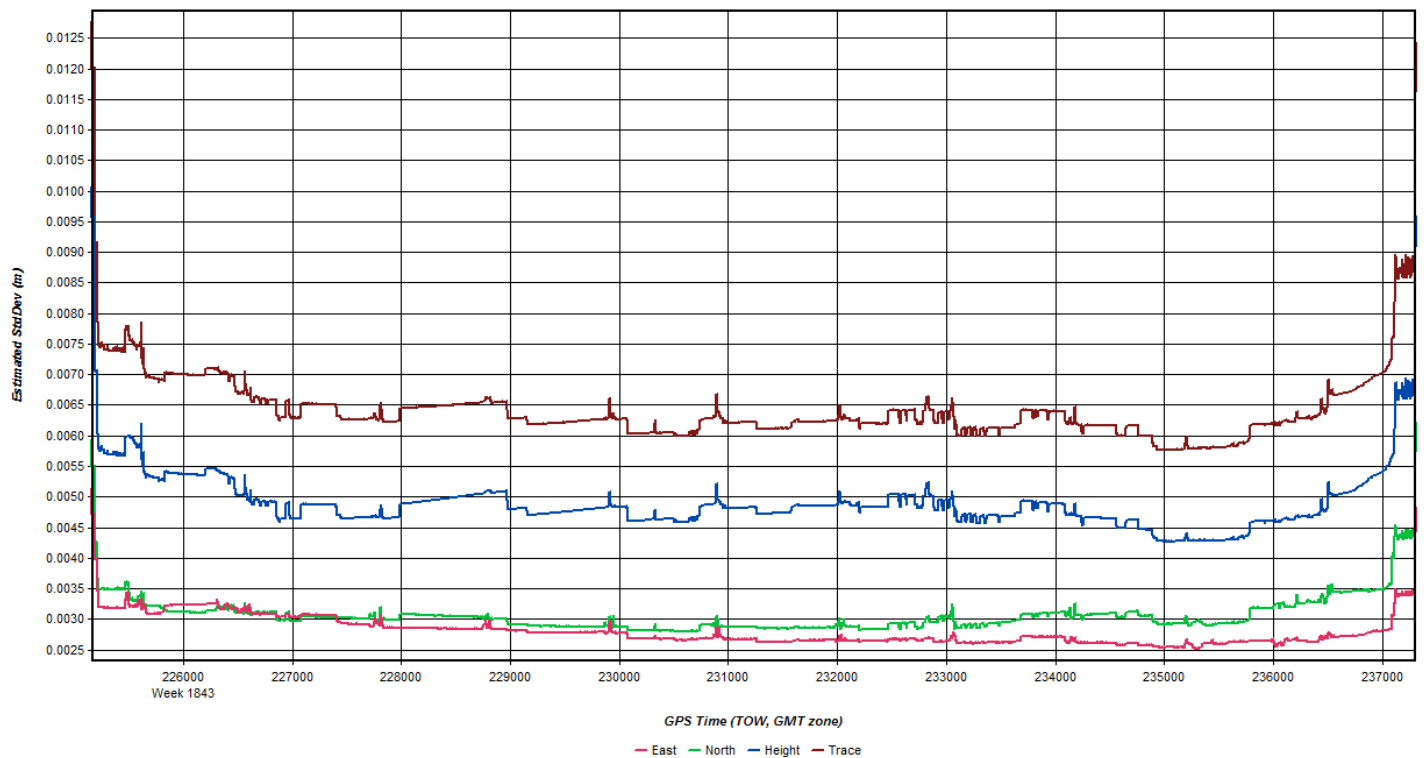
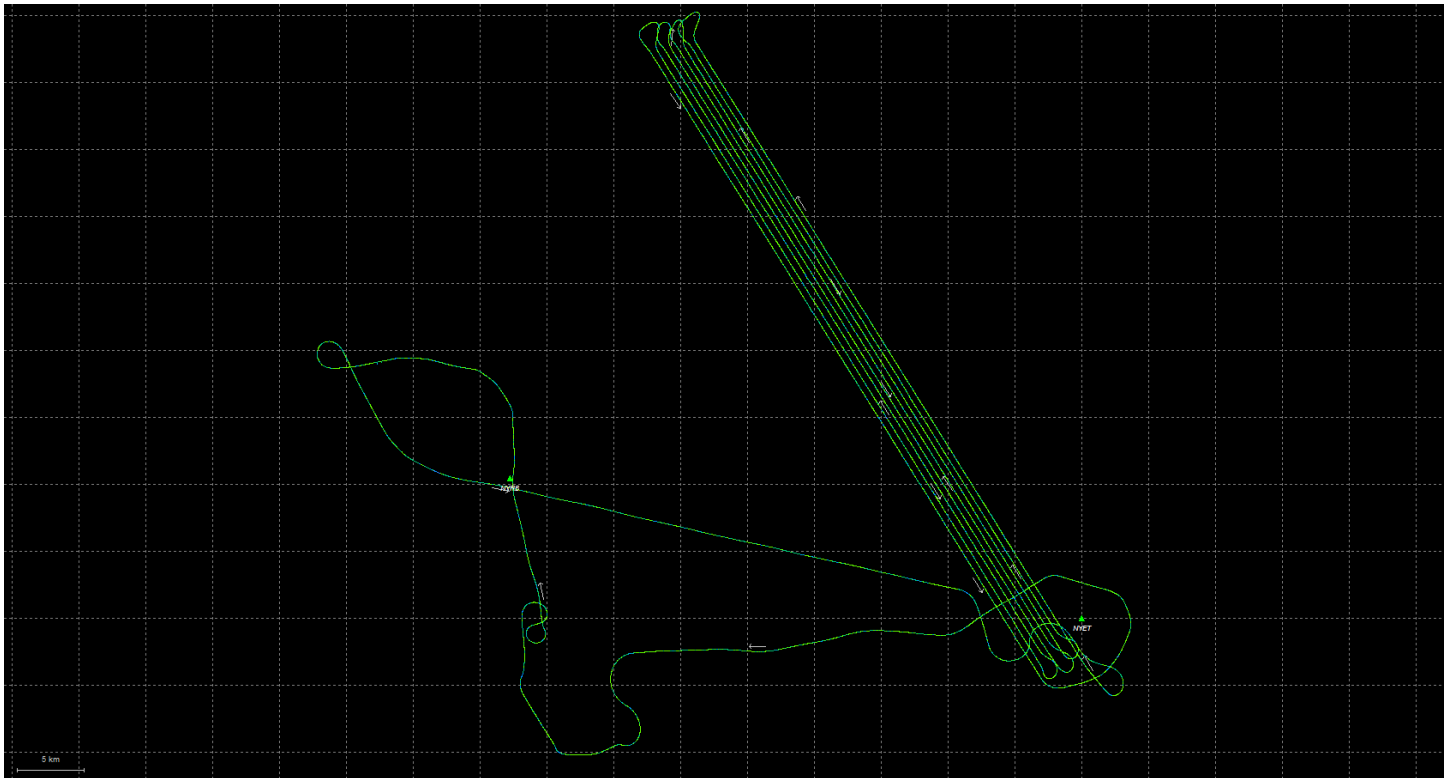
Antenna Height
 From station file: LEIAT504GG, LEIS View STA File
 Antenna profile: LEIAT504GG, LEIS Info

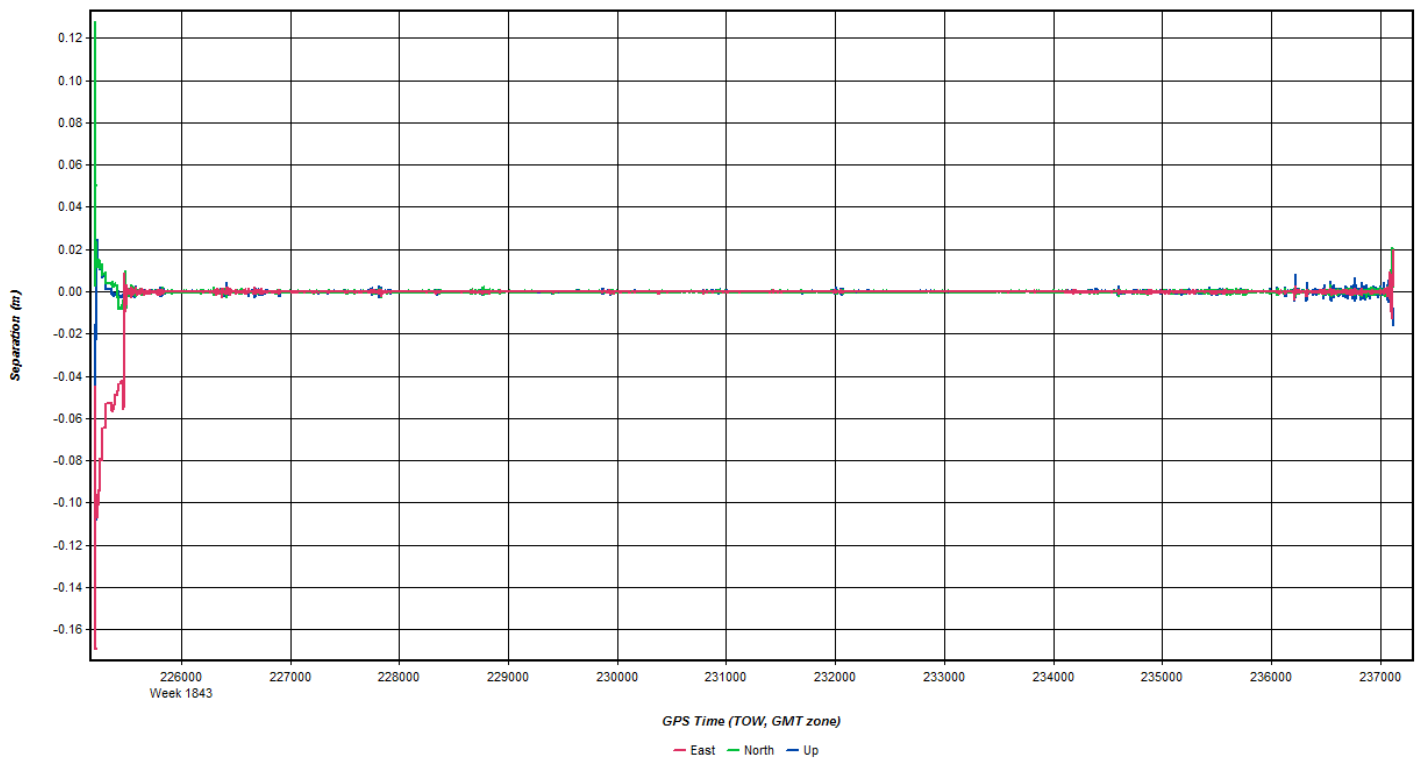
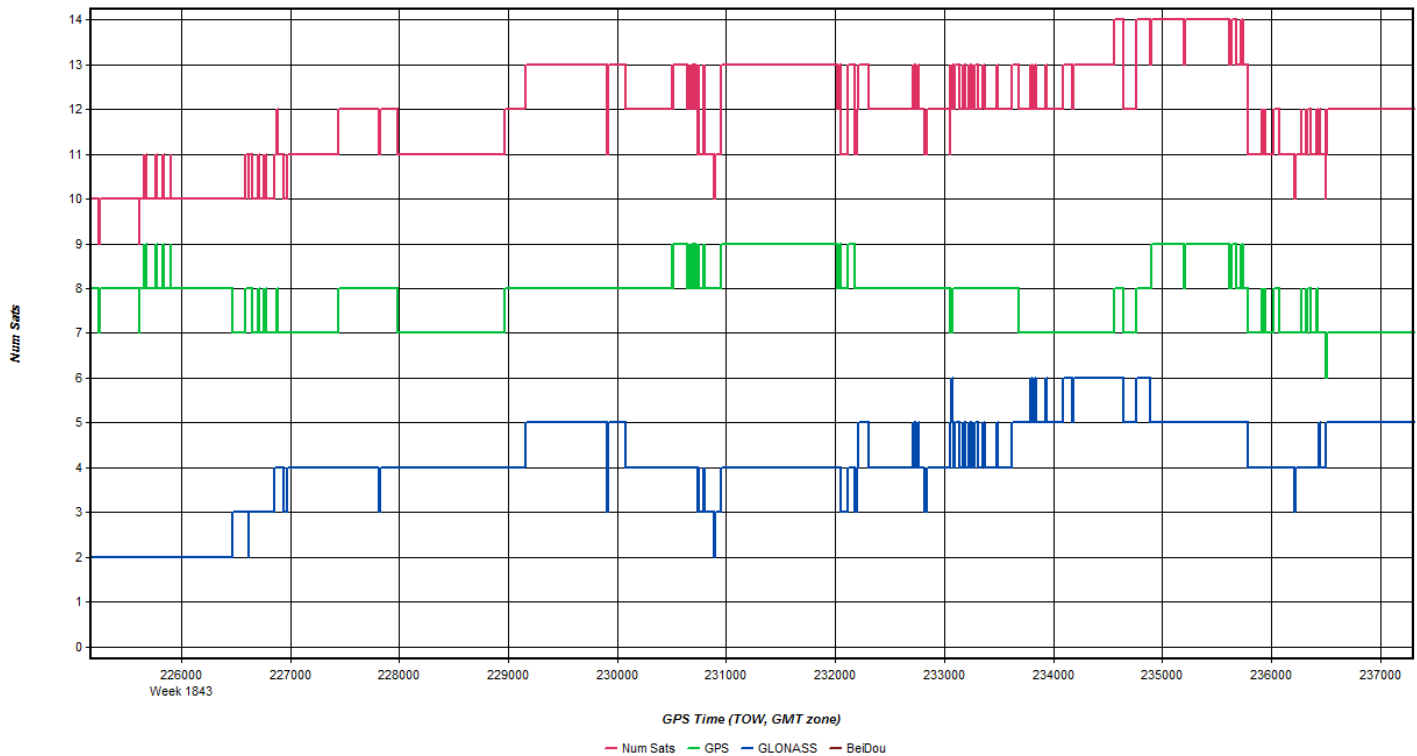
Measured height: 0.000 m
 ARP to L1 offset: 0.087 m
 Applied height: 0.087 m

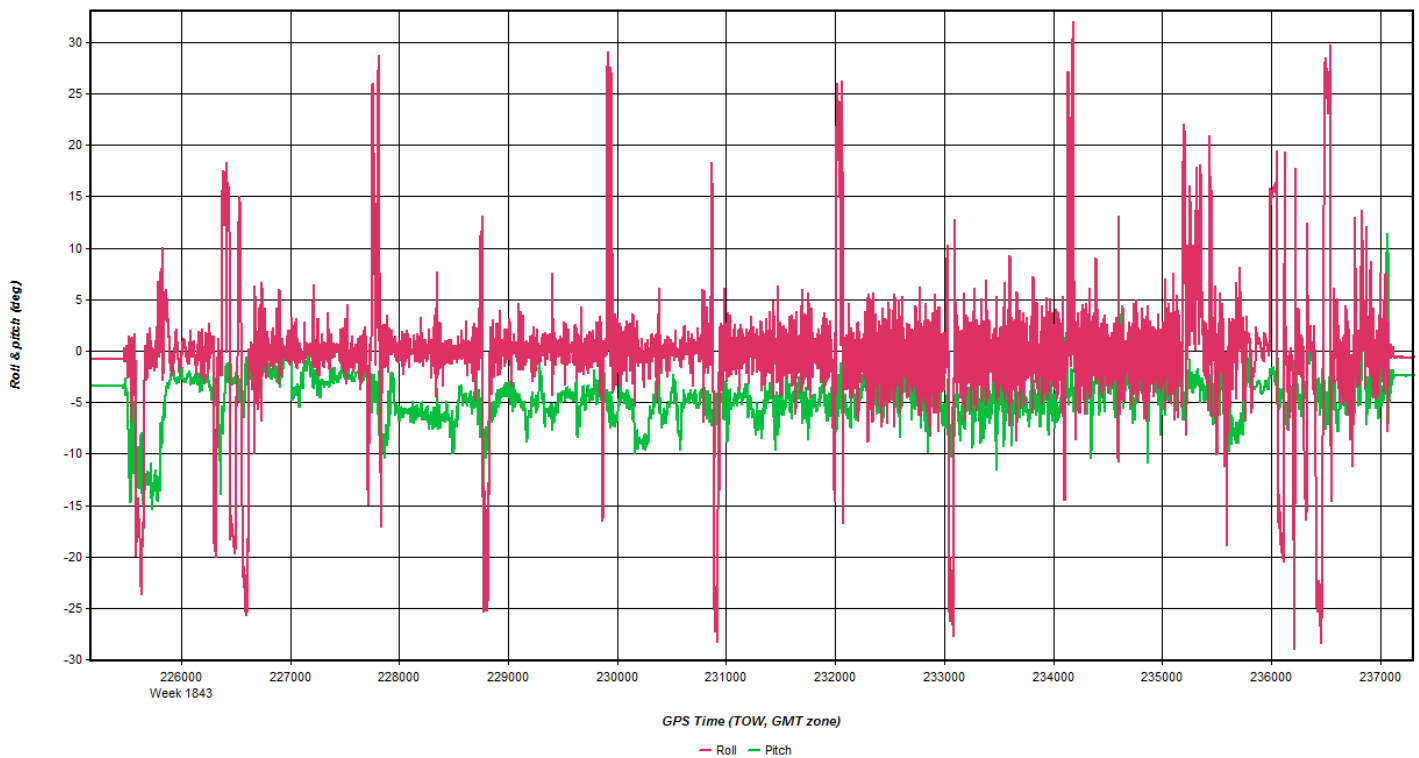
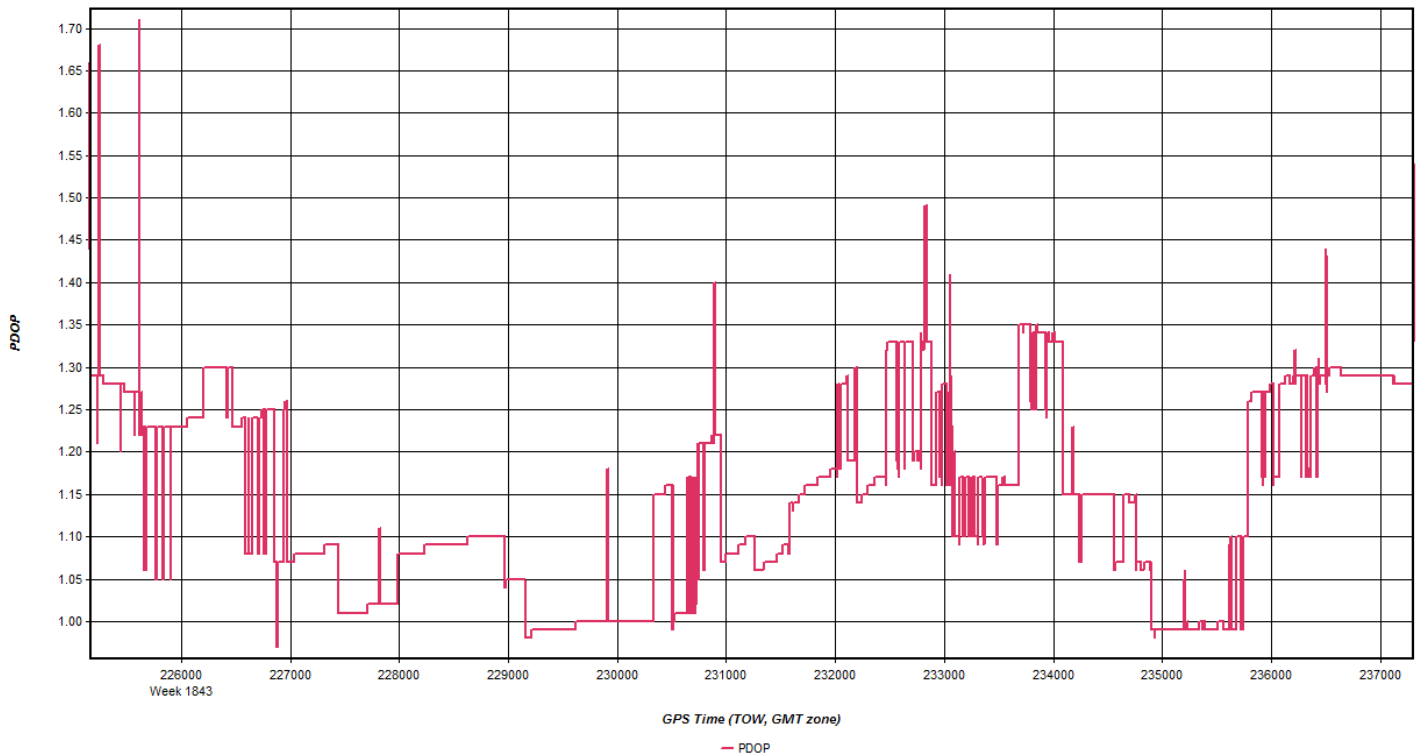
Measured to
☒ ARP
☐ L1 Phase Centre
 Compute From Slant

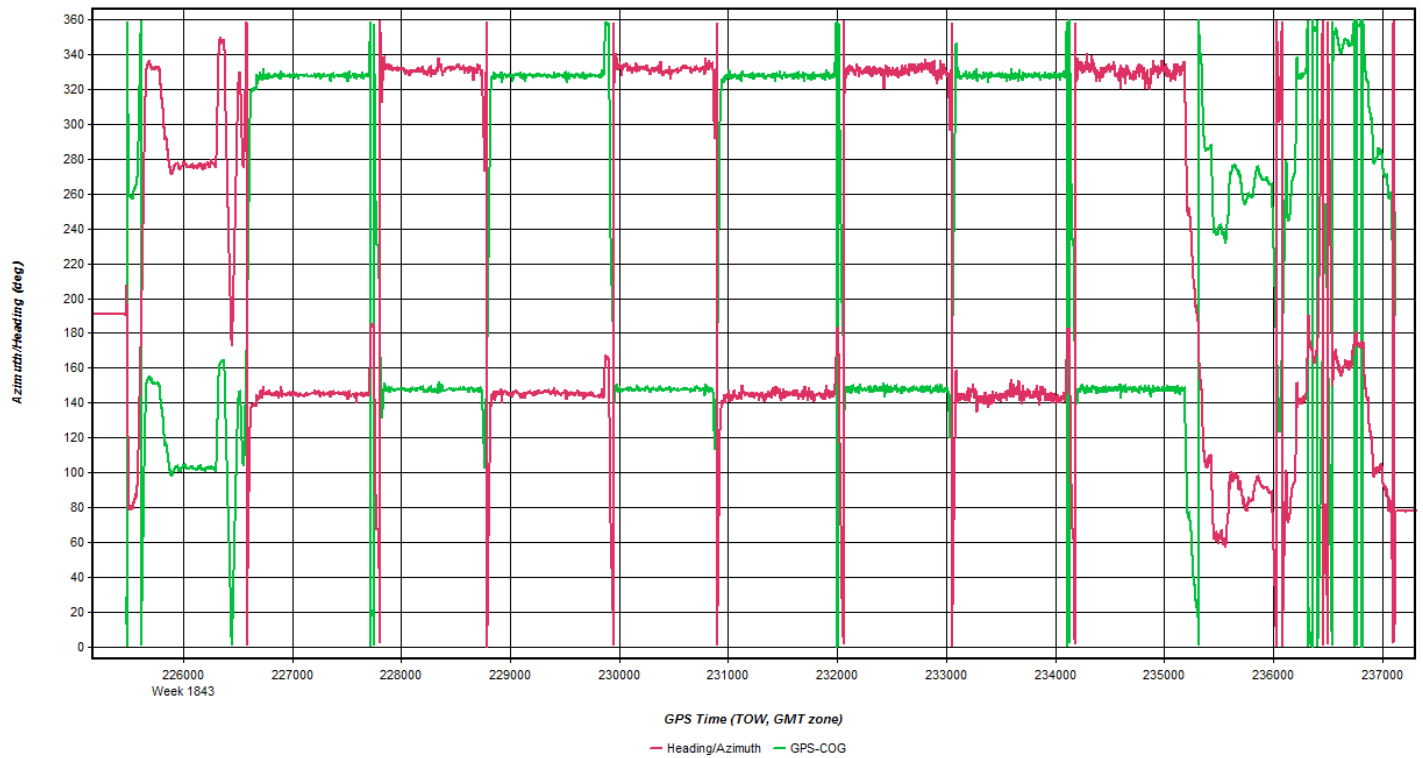
OK Cancel

May 5, 2015-A (7234)









Flight Log

23902 Clinton Essex NY Area Lake Placid Area SN7234 105Kts

CF 28W CF-6W

Contact: J. Berry at 659-277-8700

FLIGHT LINE	FL MILES	ALTITUDE (feet)	BASE STATION	DATE FLOWN	SN	FIELD QC	COMMENTS
3066	32.52 2563	6316					
3067	33.02 2563	6309					
3068	33.50 2563	6273					
3069	33.99 2563	6273					
3070	34.00 2563	6266					
3071	33.70 2563	6263					
3072	33.46 2563	6263					
3073	33.24 2563	6263	P359	150505	N-S		UNPLANNED 170312 Pull Lateral
3074	32.86 2563	6263	P359	150505	S-N		164455
3075	32.48 2563	6266	P359	150505	N-S		162744
3076	32.14 2563	6266	P359	150505	S-N		160919
3077	31.80 2563	6260	P359	150505	N-S		155230
3078	31.46 2563	6260	P359	150505	S-N		153407

Operator TOM DAY
Pilot TYLEE LOUISINS

AIRCRAFT Tail Number 26935
Sensor Serial Number 7234 AL500 Date 2015-05-05

Page 6 of 9

Flight Logs

Contact: J. Berry
at 859-277-8700

23902 Clinton Essex NY Area Lake Placid Area SN7234 105kts

FLIGHT LINE	FL MILES	ALTITUDE (feet)	BASE STATION	DATE FLOWN	S/N	FIELD QC	COMMENTS
3079	31.13 2563	6260		150505 150505	S-N N-S	151657	171333 →
3080	30.78 2563	6247		150505	S-N	145902	First line / smooth... so far!!
3081	30.42 2563	6243		150504	N-S	170745	last line. UPL 173339
3082	30.05 2563	6234	↗	150504	S-N	165111	→ replace line before (165111) (NO)
3083	29.64 2563	6234		150504	N-S	163104	windy
3084	29.21 2563	6234		150504	S-N	161147	fast
3085	28.78 2563	6276		150504	N-S	155850	bump up
3086	28.37 2563	6260		150504	S-N	154342	
3087	27.94 2563	6234		150504	N-S	152833	long line
3088	27.18 2563	6230		150504	S-N	151328	lot of wind
3089	26.24 2563	6207		150504	N-S	145818	
3090	25.28 2563	6204		150504	S-N	144447	new line low
3091	24.06 2563	6250		150503	S-N	171333	171333

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Date 150505

AIRCRAFT Tail Number 2493E

Sensor Serial Number

Operator TOM DAY

Pilot TYLER GUNN

Flight Logs should be FAXED to 859-277-8901 immediately

after each day's flights with lines and other details noted

CLINTON ESSEX CHAMPLAIN

Base Station Log

Coordinate/Antenna Settings

Master Remote

Base Station
1: NYET Name: NYET ☐ Disabled
File: D:\Proc\23902_Clinton_Essex\TJCZ\20150505_142827_SEN723

Coordinates
Latitude: North 44 12 34.85080 Compute from PPP
Longitude: West 73 32 25.85231 Enter Grid Values
Ellipsoidal height: 174.246 m Enter MSL Height
Datum: NAD83(2011) Datum Options
Select From Favorites Add To Favorites Use Average Position

Antenna Height
From station file: LEIAT504, LEIS View STA File
Antenna profile: LEIAT504, LEIS Info
Measured height: 0.000 m Measured to
ARP to L1 offset: 0.088 m ☒ ARP
Applied height: 0.088 m ☐ L1 Phase Centre
Compute From Slant

OK Cancel

Coordinate/Antenna Settings

Master Remote

Base Station
2: NYRB Name: NYRB ☐ Disabled
File: D:\Proc\23902_Clinton_Essex\TJCZ\20150505_142827_SEN723

Coordinates
Latitude: North 44 18 13.92280 Compute from PPP
Longitude: West 74 04 42.07519 Enter Grid Values
Ellipsoidal height: 466.846 m Enter MSL Height
Datum: NAD83(2011) Datum Options
Select From Favorites Add To Favorites Use Average Position

Antenna Height
From station file: LEIAT504GG, LEIS View STA File
Antenna profile: LEIAT504GG, LEIS Info
Measured height: 0.000 m Measured to
ARP to L1 offset: 0.087 m ☒ ARP
Applied height: 0.087 m ☐ L1 Phase Centre
Compute From Slant

OK Cancel

GPS OBSERVATION LOG

Station ID P354
 Project Number 23902
 Project Name Clinton Essex
 Rcvr. Type Novatel
 Rcvr. S/N 7-0141418
 Antenna Type Novatel 1.03 Hw Rev
 Antenna S/N 01017577

Photos taken.
 Airport: KSLK
 1.8m fixed height tripod

Date 2015 105 105
 Julian Date 125
 Start Time 8:00:AM:
 Stop Time 14:00:PM:
 Rcvr. File Name 00081250.PDC
 Observer TOM DAY

New or Existing
 Mon. New

Existing
 Photo Taken: yes
Yes No

Monument Type: Brass cap
 Spike PK Nail
 AM Washer

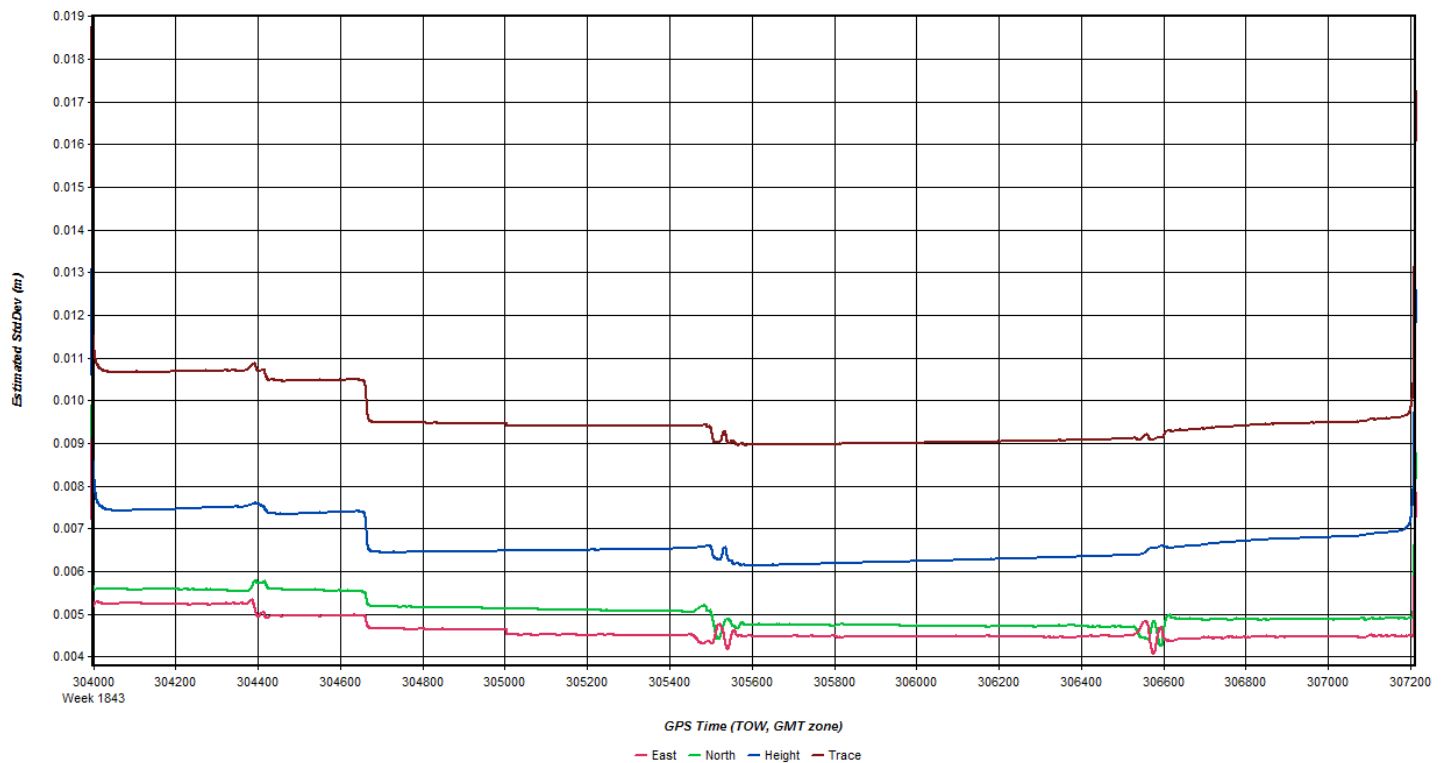
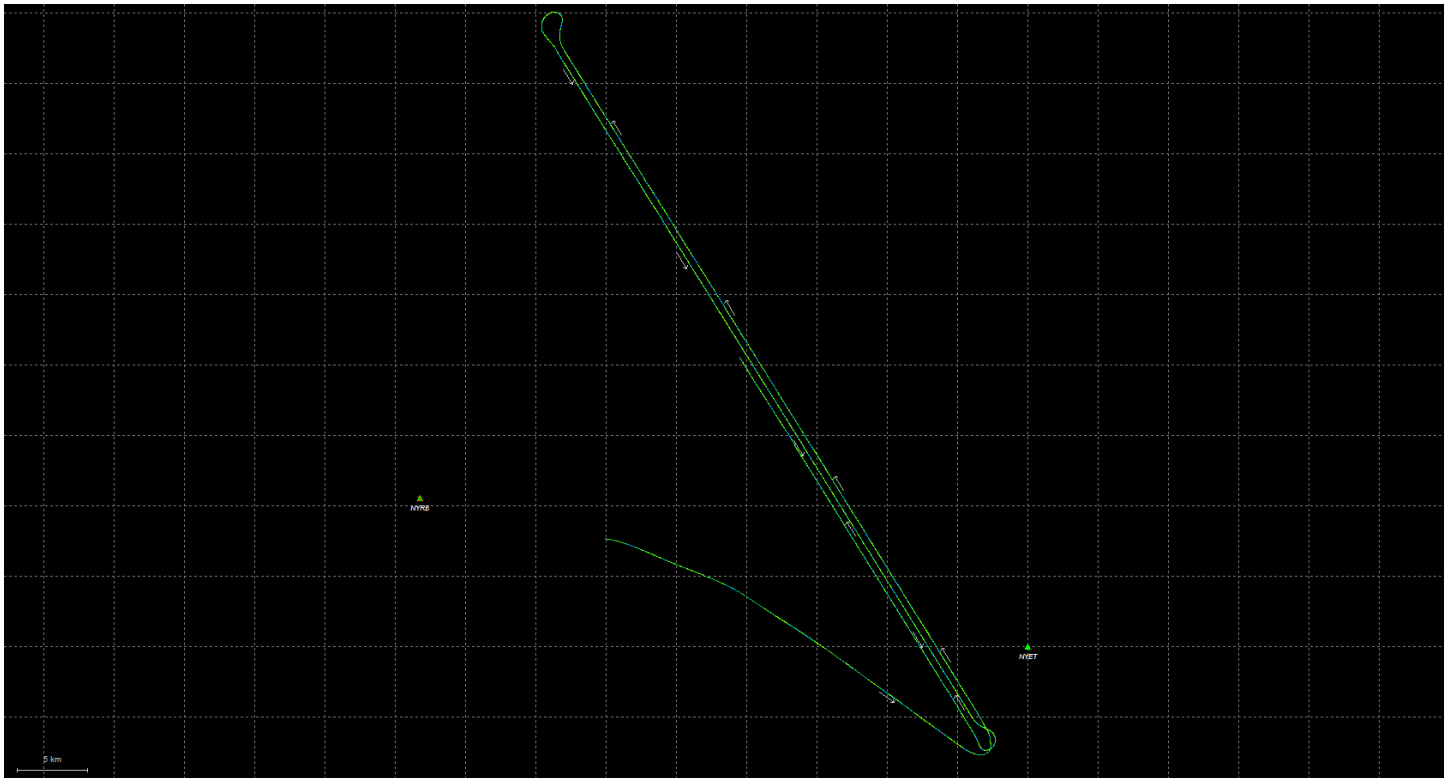
Other

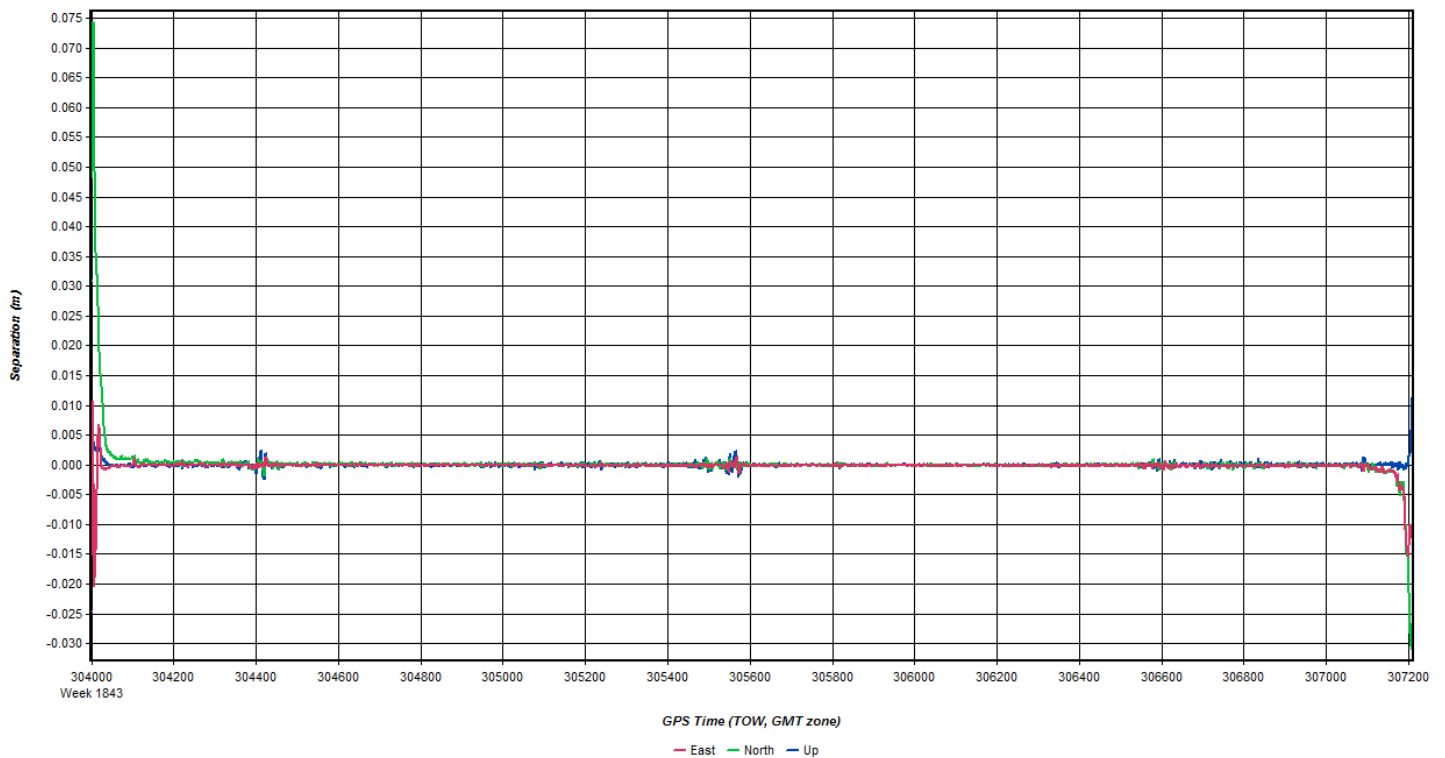
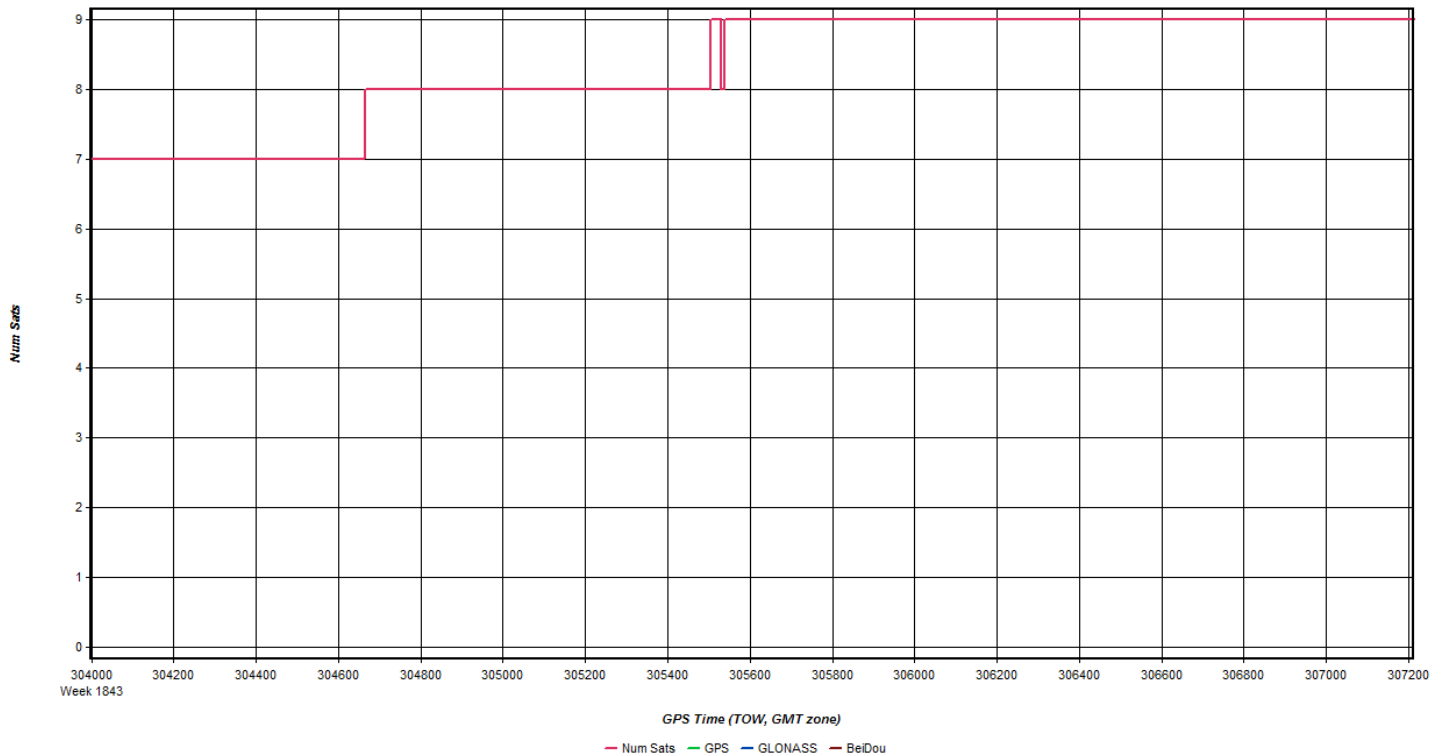
Height Readings:
 (Top of Monument to Bottom of Ground Plane)

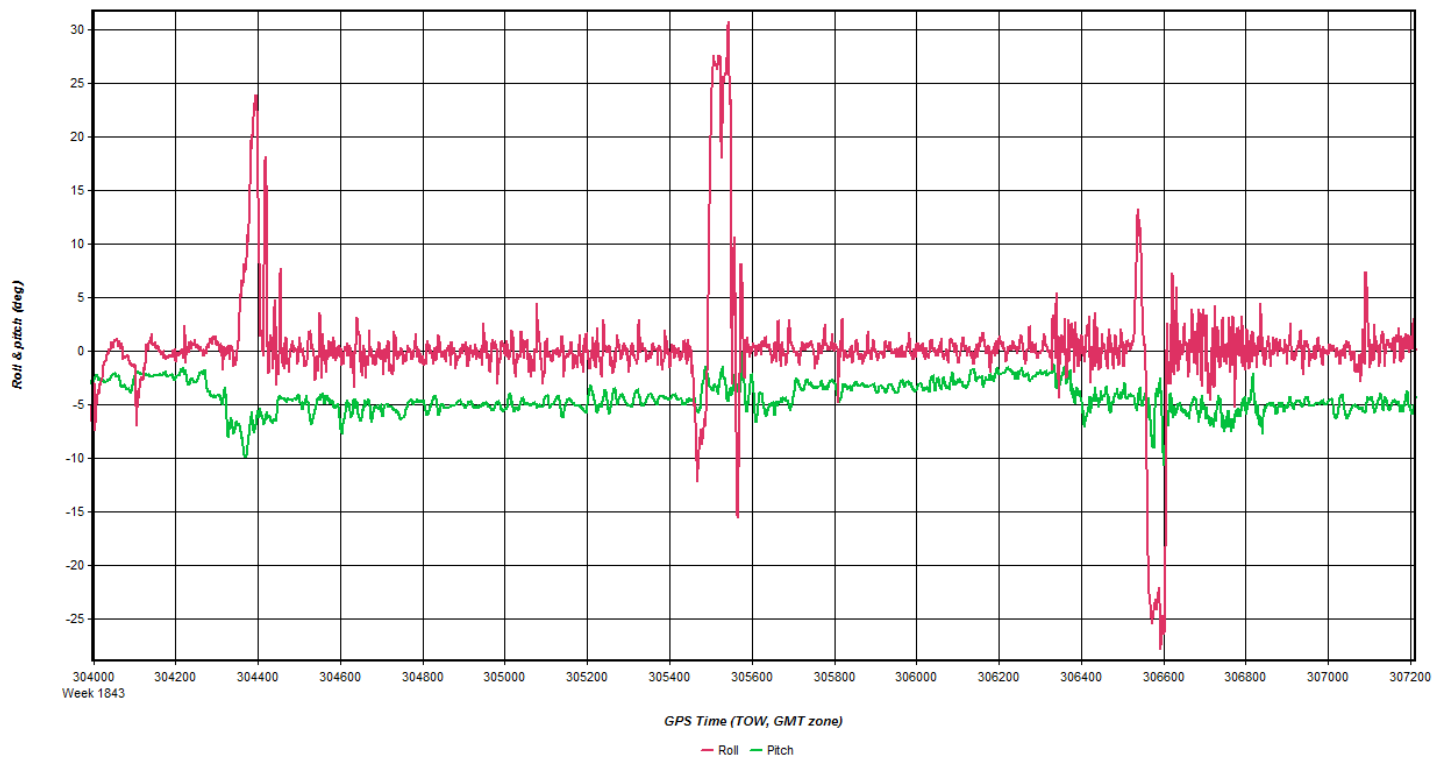
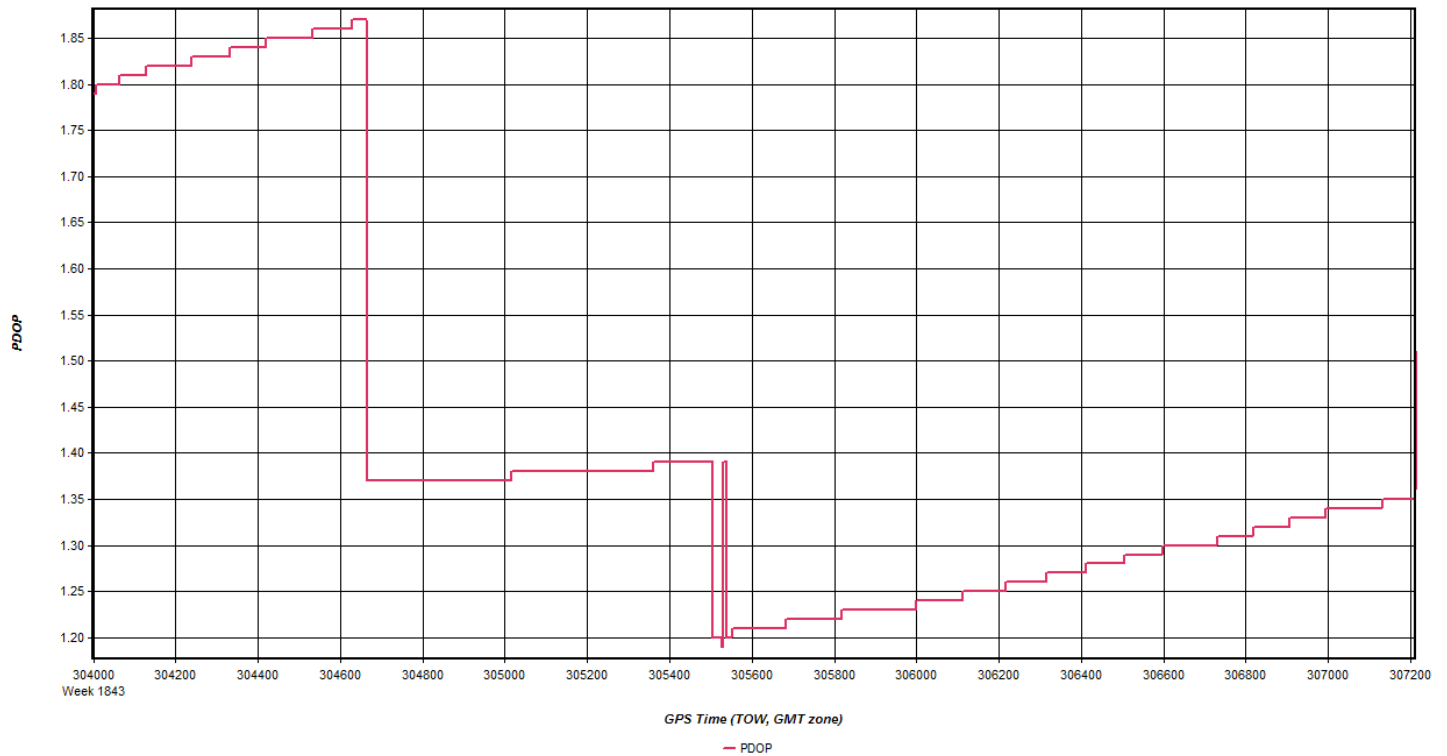
Start	M.		Ft.
Stop	M.	<u>1.8m</u>	Ft.
Mean	M.		Ft.

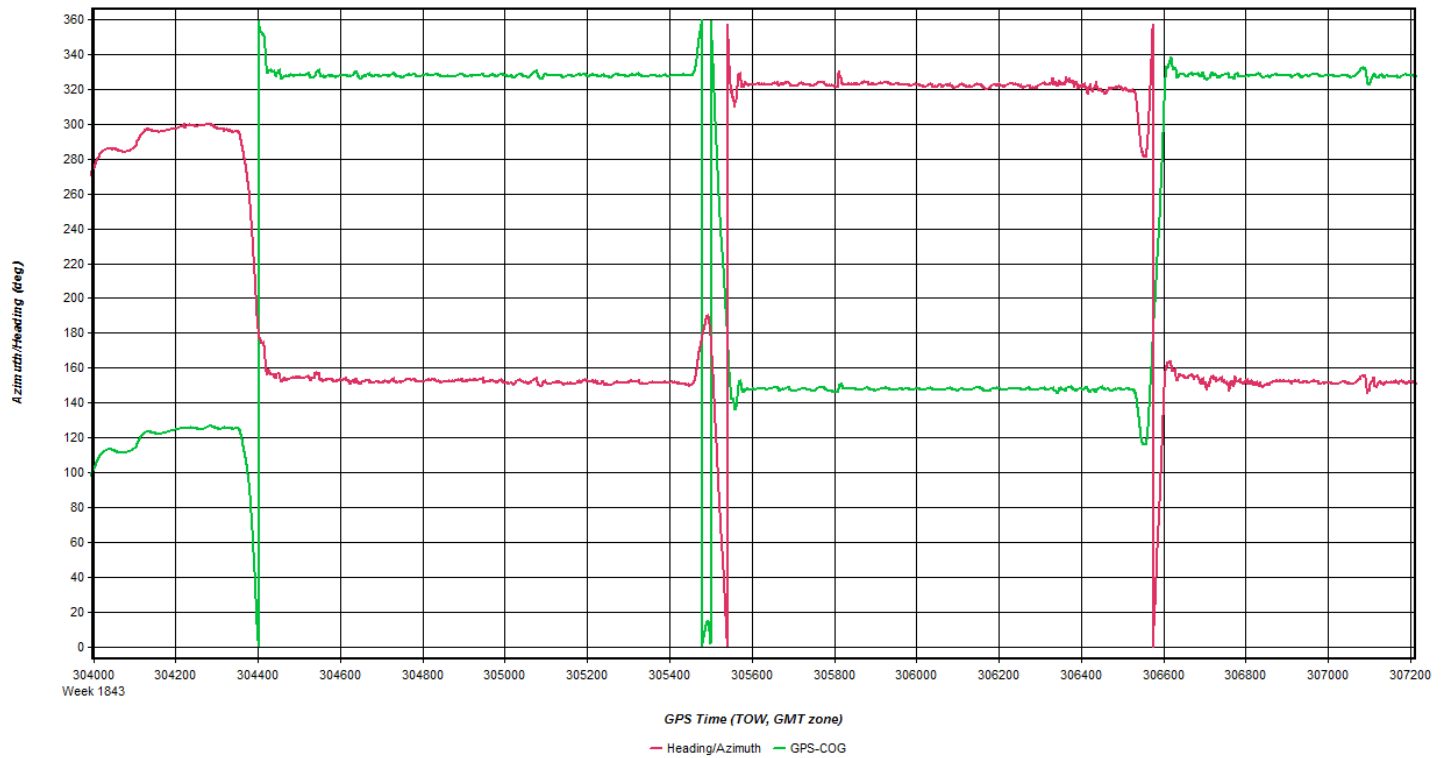
Scanned by CamScanner

May 6, 2015-A (7234)









Flight Log

23902 Clinton Essex NY			Area Lake Placid Area SN7234 105kts			Flight Logs	
FLIGHT LINE	FL MILES	ALTITUDE (feet)	BASE STATION	DATE FLOWN	S/N	FIELD QC	COMMENTS
3053	28.50 2563	6522					
3054	28.63 2563	6512					
3055	28.76 2563	6503					
3056	28.89 2563	6411					
3057	28.99 2563	6398					
3058	29.42 2563	6398	JBG	150506	S-N		171205 173220 02.16 209.
3059	30.11 2563	6371	JBG	150506	N-S		165531
3060	30.94 2563	6371	JBG	150506	S-N		163846
3061	31.22 2563	6352	JBG	150506	N-S		162114
3062	31.47 2563	6352	JBG	150506	S-N		160429
3063	31.70 2563	6342	JBG	150506	N-S		154700
3064	31.94 2563	6329	JBG	150506	S-N		152927
3065	32.19 2563	6322	JBG	150506	N-S		150920

Operator Tom DAY

Pilot TYPIC COUSINS

AIRCRAFT Tail Number 269JE

Sensor Serial Number 561234

Page 5 of 9

Date 20150506

Flight Logs should be FAXED to 859-277-8901 immediately after each day's flights with lines and other details noted

CF 2XW CF-CXW

23902 Clinton Essex NY Area Lake Placid Area SN7234 105Kts

Contact: J. Berry
at 859-277-8700

Flight Logs

FLIGHT LINE	FL MILES	ALTITUDE (feet)	BASE STATION	DATE FLOWN	S/N	FIELD QC	COMMENTS
3066	32.52 2563	6316	JBG	150506	S-N		145124
3067	33.02 2563	6309	JBG	150506	N-S		143241
3068	33.50 2563	6273	JBG	150506	S-N		141504
3069	33.99 2563	6273	JBG	150506	N-S		135654
3070	34.00 2563	6266	JBG	150506	S-N		134314 131028 LONGEST LINE 134314
3071	33.70 2563	6263	JBG	150506	N-S		125237
3072	33.46 2563	6263	JBG	150506	S-N		123354
3073	33.24 2563	6263	P359	150505	N-S		170312 UNPLANNED FALL LINE
3074	32.86 2563	6263	P359	150505	S-N		164455
3075	32.48 2563	6266	P359	150505	N-S		162744
3076	32.14 2563	6266	P359	150505	S-N		160919
3077	31.80 2563	6260	P359	150505	N-S		155230
3078	31.46 2563	6260	P359	150505	S-N		153407

Operator JOW DAY
Pilot Tylor Lewis

AIRCRAFT Tail Number 26932
Sensor Serial Number 7234 AL50

Date 20150505

Page 6 of 9

Flight Logs should be FAXED to 859-277-8901 immediately after each day's flights with lines and other details noted

Base Station Log

Coordinate/Antenna Settings

Master Remote

Base Station
 1: NYET Name: NYET ☐ Disabled
 File: D:\Proc\23902_Clinton_Essex\TJCZ\20150506_120412_F1_SEN

Coordinates
 Latitude: North 44 12 34.85080 Compute from PPP
 Longitude: West 73 32 25.85231 Enter Grid Values
 Ellipsoidal height: 174.246 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

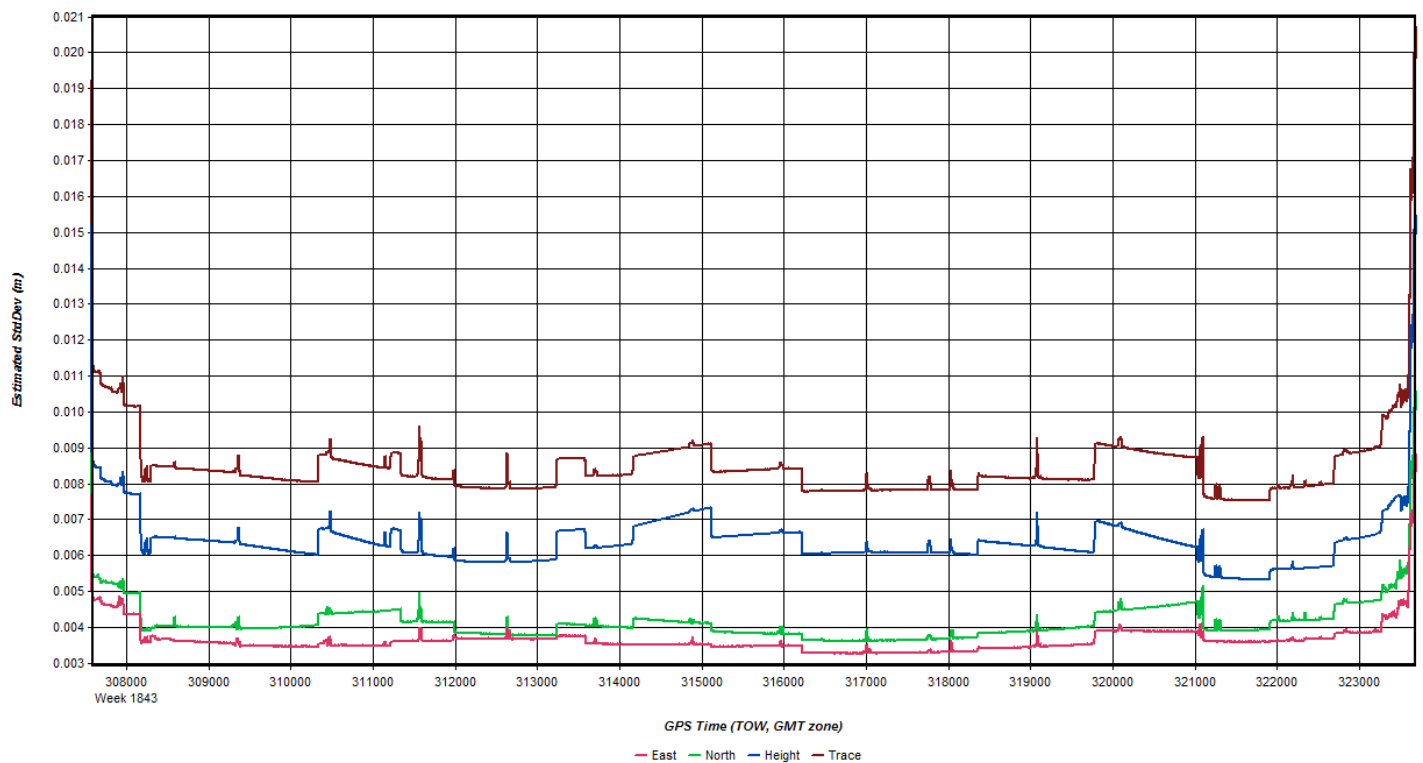
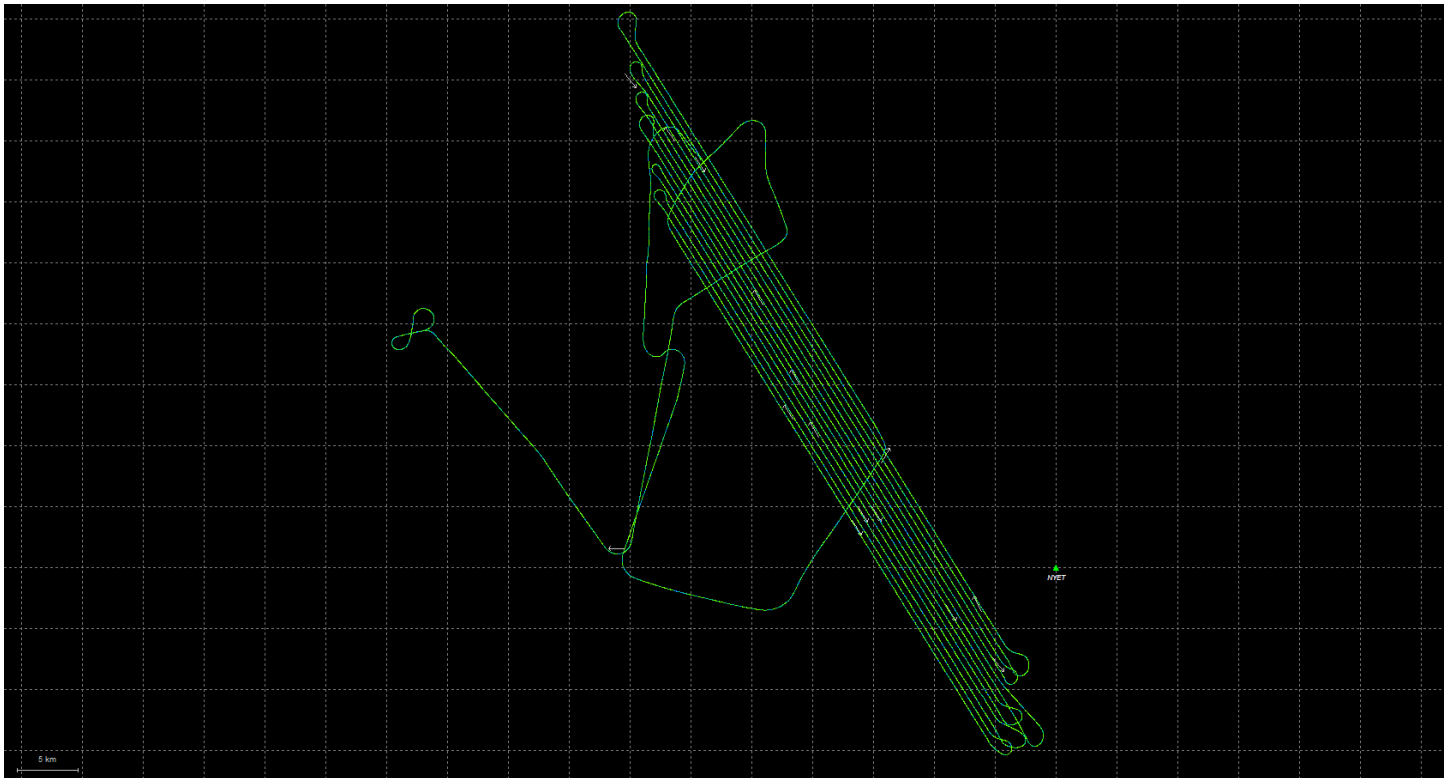
Antenna Height
 From station file: LEIAT504, LEIS View STA File
 Antenna profile: LEIAT504, LEIS Info

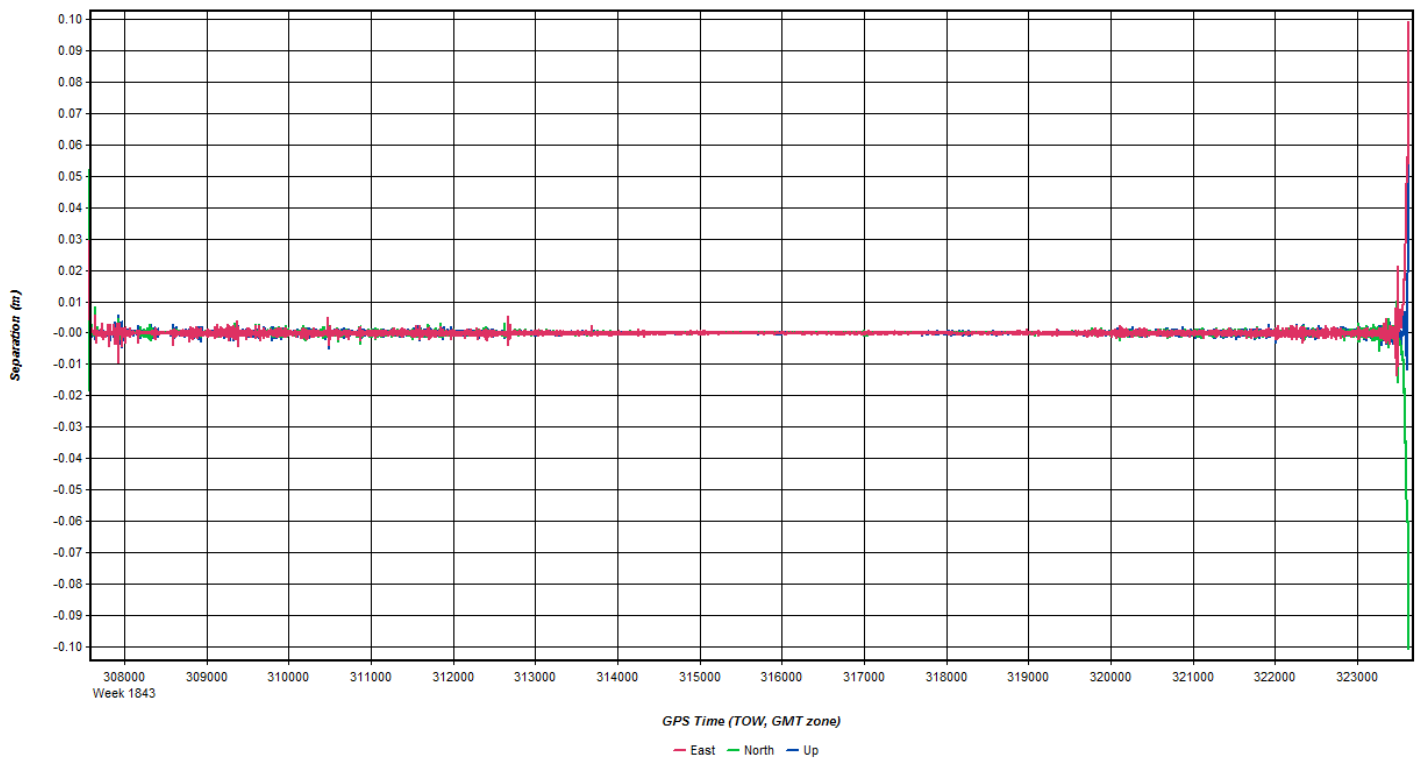
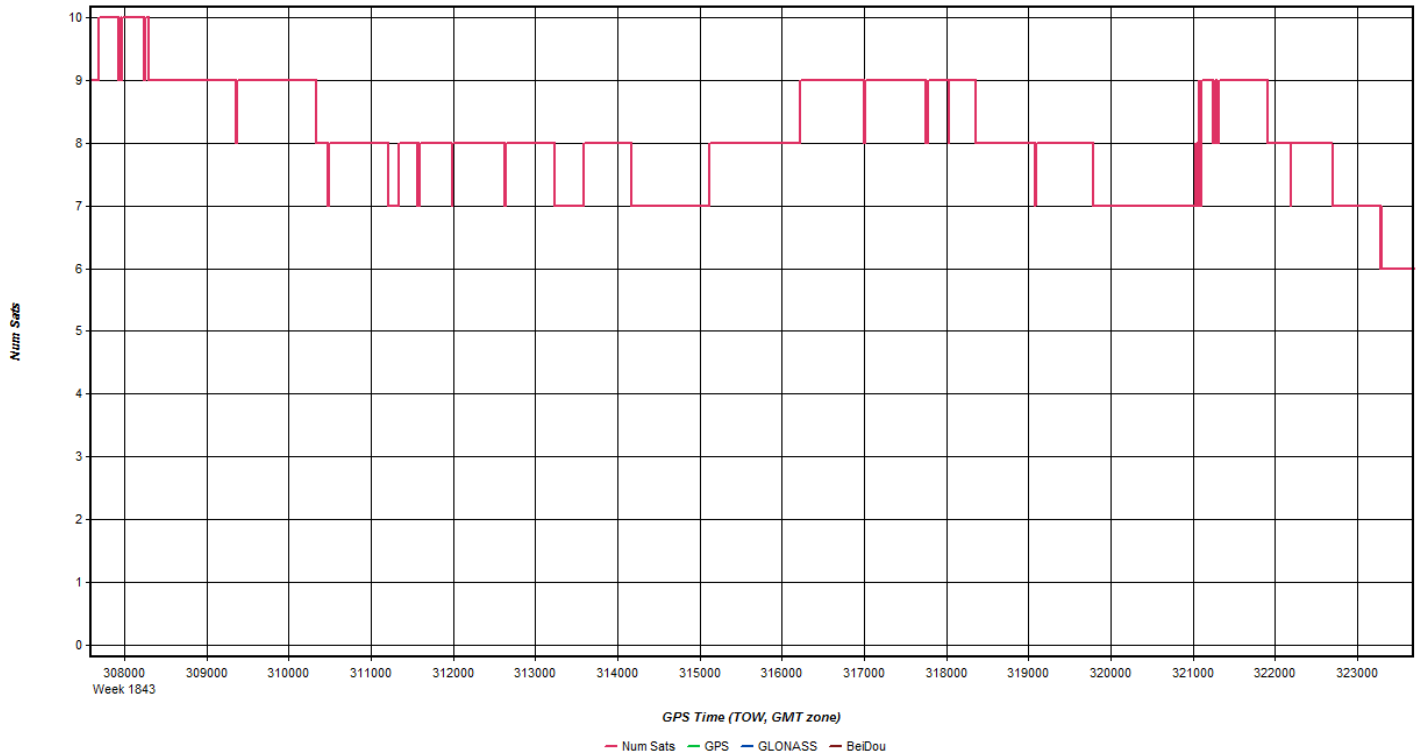
Measured height: 0.000 m
 ARP to L1 offset: 0.088 m
 Applied height: 0.088 m

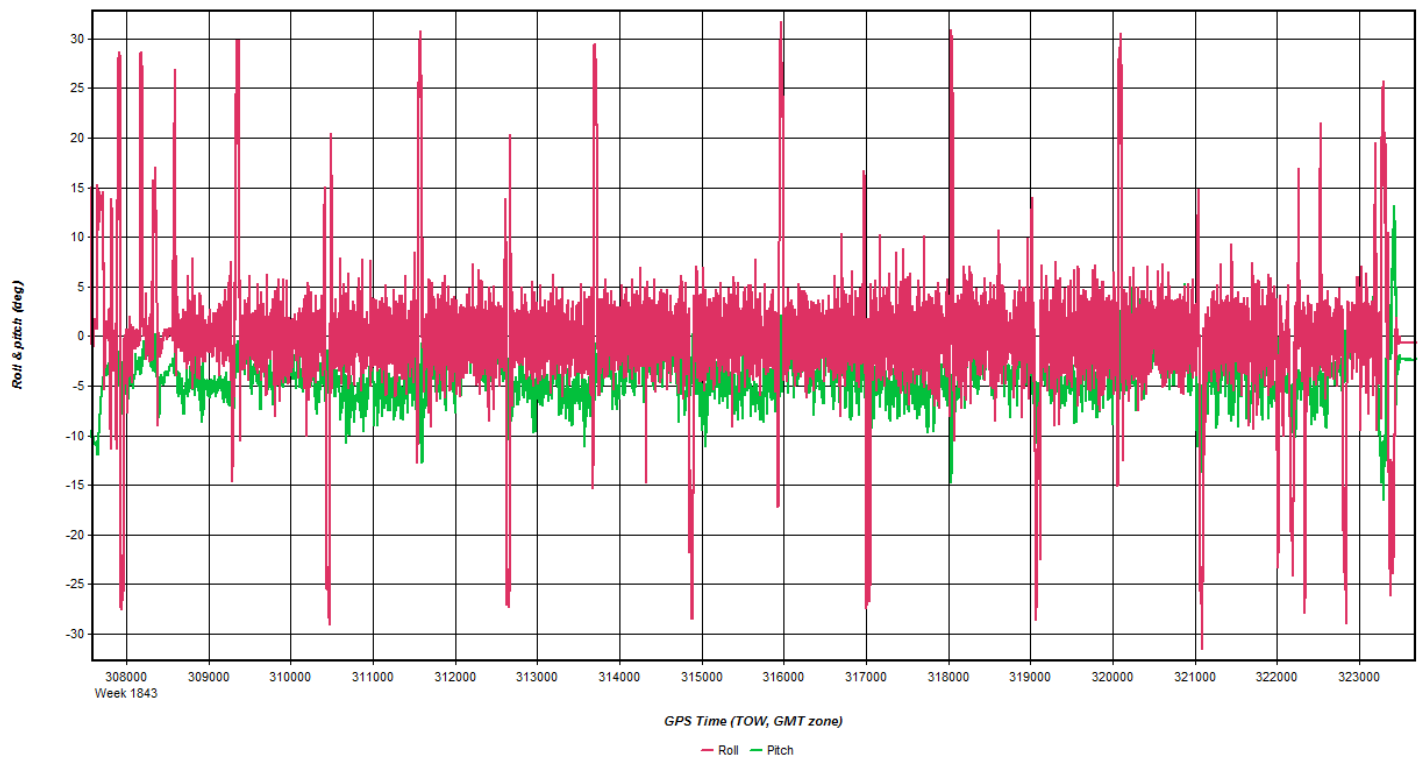
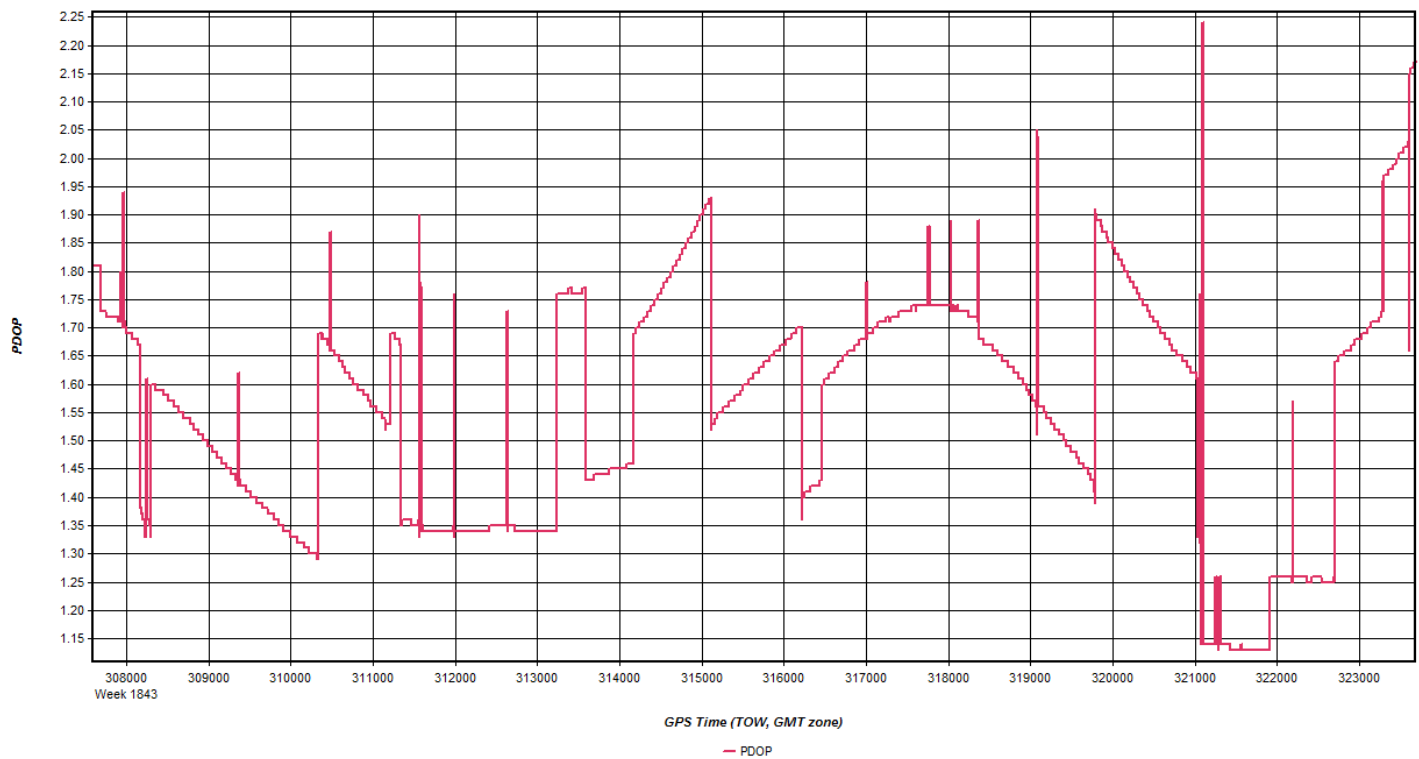
Measured to
☒ ARP
☐ L1 Phase Centre
 Compute From Slant

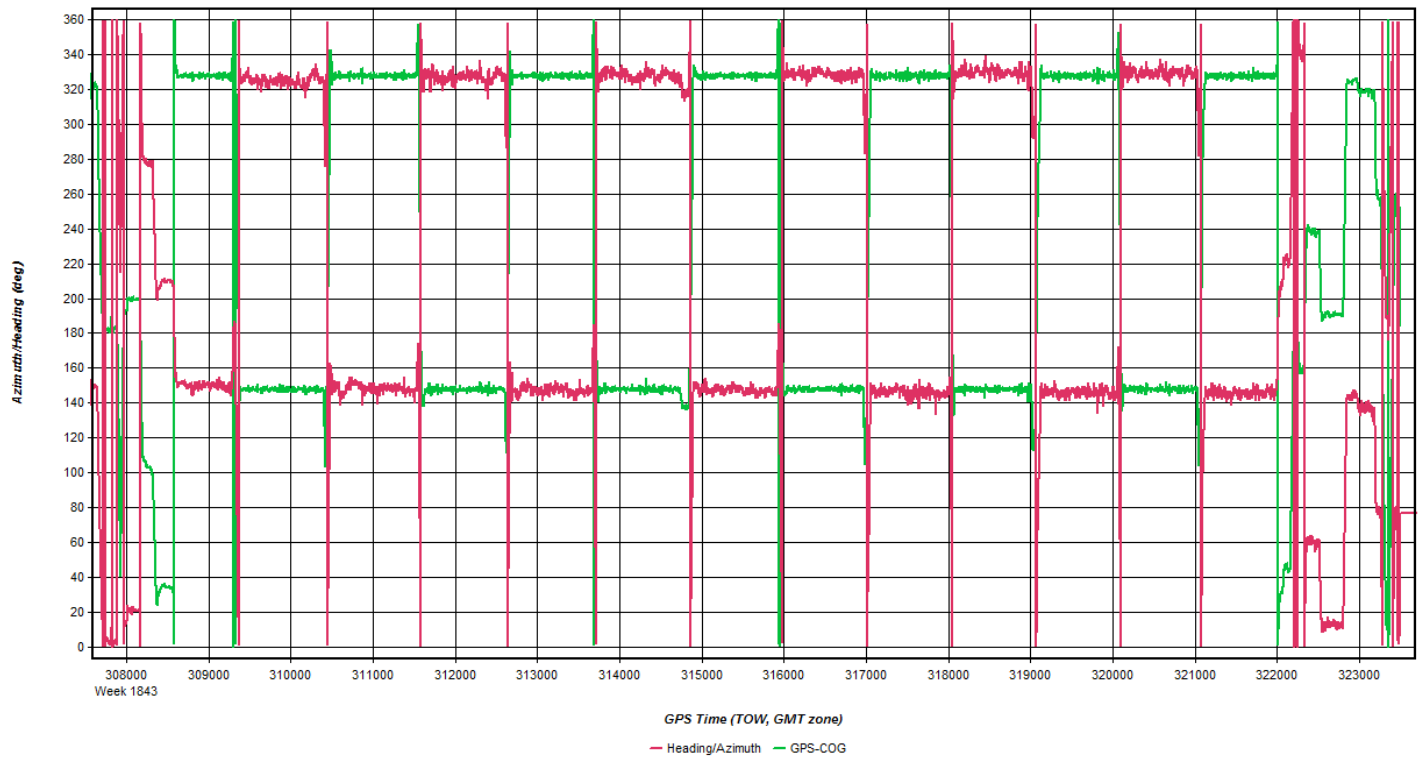
OK Cancel

May 6, 2015-B (7234)









Flight Log

23902 Clinton Essex NY Area Lake Placid Area SN7234 105kts

CF 2XW CF-CXW

Contact: J. Berry
at 859-277-8700

Flight Logs

FLIGHT LINE	FL MILES	ALTITUDE (feet)	BASE STATION	DATE FLOWN	S/N	FIELD QC	COMMENTS
3066	32.52 2563	6316	JBG	150506	S-N		145124
3067	33.02 2563	6309	JBG	150506	N-S		143241
3068	33.50 2563	6273	JBG	150506	S-N		141504
3069	33.99 2563	6273	JBG	150506	N-S		135654
3070	34.00 2563	6266	JBG	150506	S-N		134314 131028 LONGEST LINE 134314 DATA MISSING NOT CORRECTED
3071	33.70 2563	6263	JBG	150506	N-S		125237
3072	33.46 2563	6263	JBG	150506	S-N		123357
3073	33.24 2563	6263	P359	150505	N-S		UNAPPROVED 170312 PULL LINE
3074	32.86 2563	6263	P359	150505	S-N		164455
3075	32.48 2563	6266	P359	150505	N-S		162744
3076	32.14 2563	6266	P359	150505	S-N		160919
3077	31.80 2563	6260	P359	150505	N-S		155230
3078	31.46 2563	6260	P359	150505	S-N		153407

Operator JOW DAY
Pilot Tylor L. Coatsworth

AIRCRAFT Tail Number 2693E
Sensor Serial Number 7234 AL50

Date 20150505

Page 6 of 9

Flight Logs should be FAXED to 859-277-8901 immediately after each day's flights with lines and other details noted

Base Station Log

Coordinate/Antenna Settings

Master Remote

Base Station
 1: NYET Name: NYET ☐ Disabled
 File: D:\Proc\23902_Clinton_Essex\TJCZ\20150506_132249_F2_SEH

Coordinates
 Latitude: North 44 12 34.85080 Compute from PPP
 Longitude: West 73 32 25.85231 Enter Grid Values
 Ellipsoidal height: 174.246 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

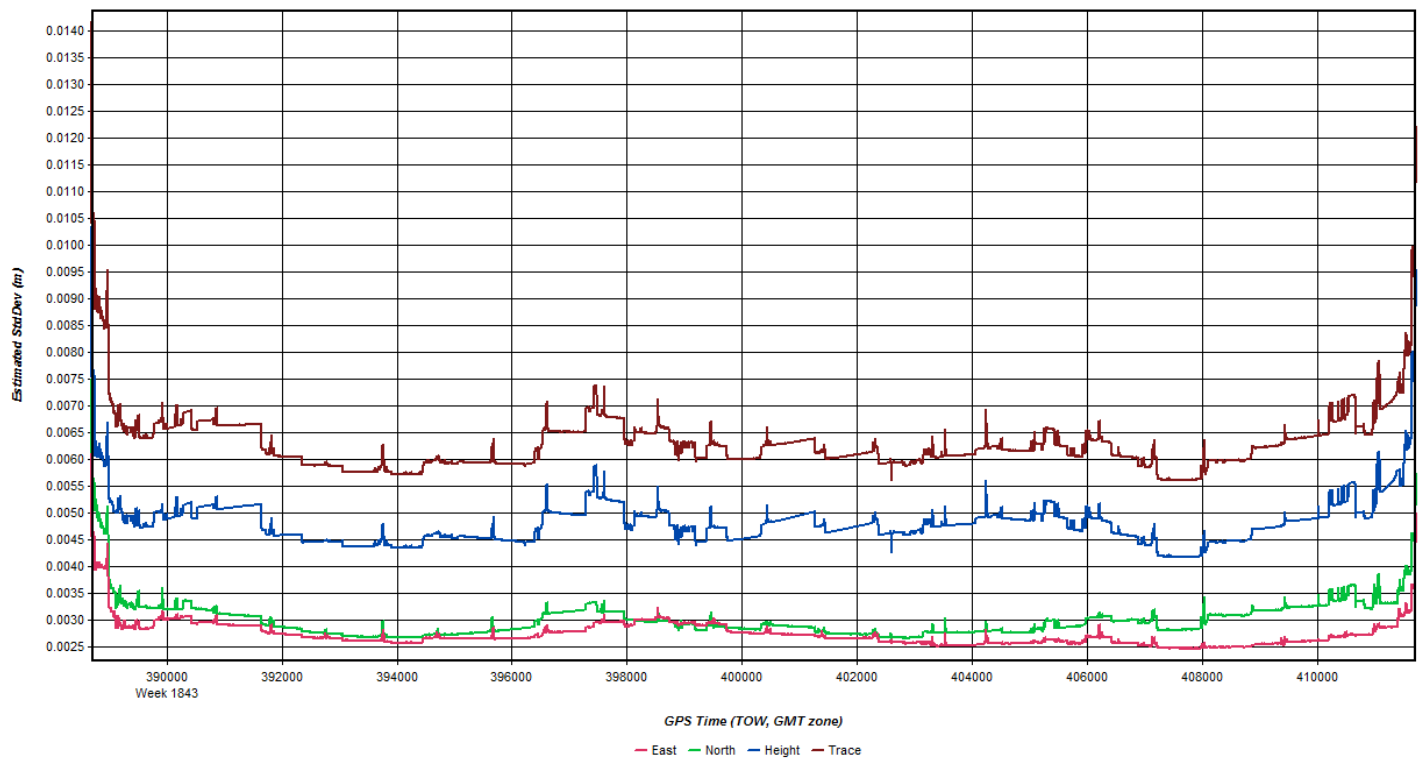
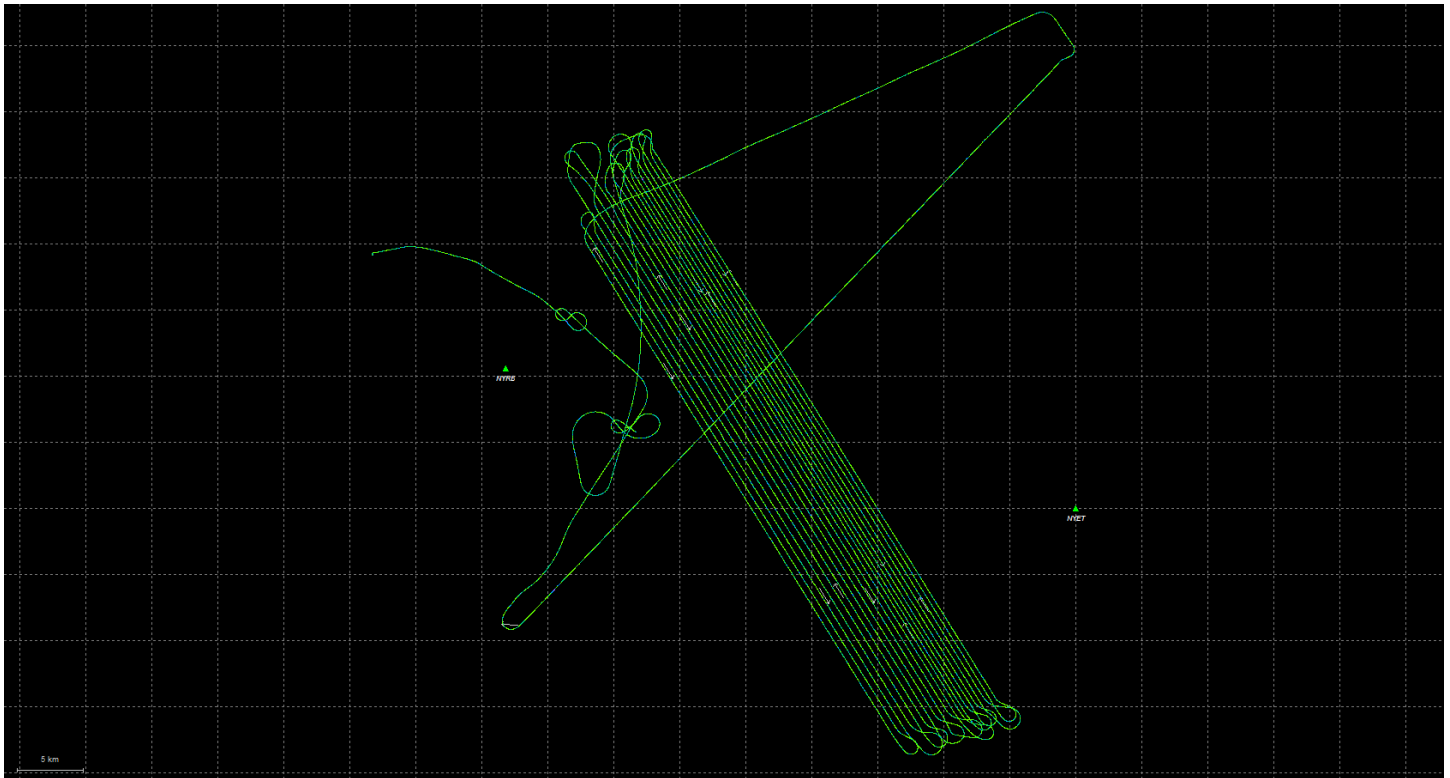
Antenna Height
 From station file: LEIAT504, LEIS View STA File
 Antenna profile: LEIAT504, LEIS Info

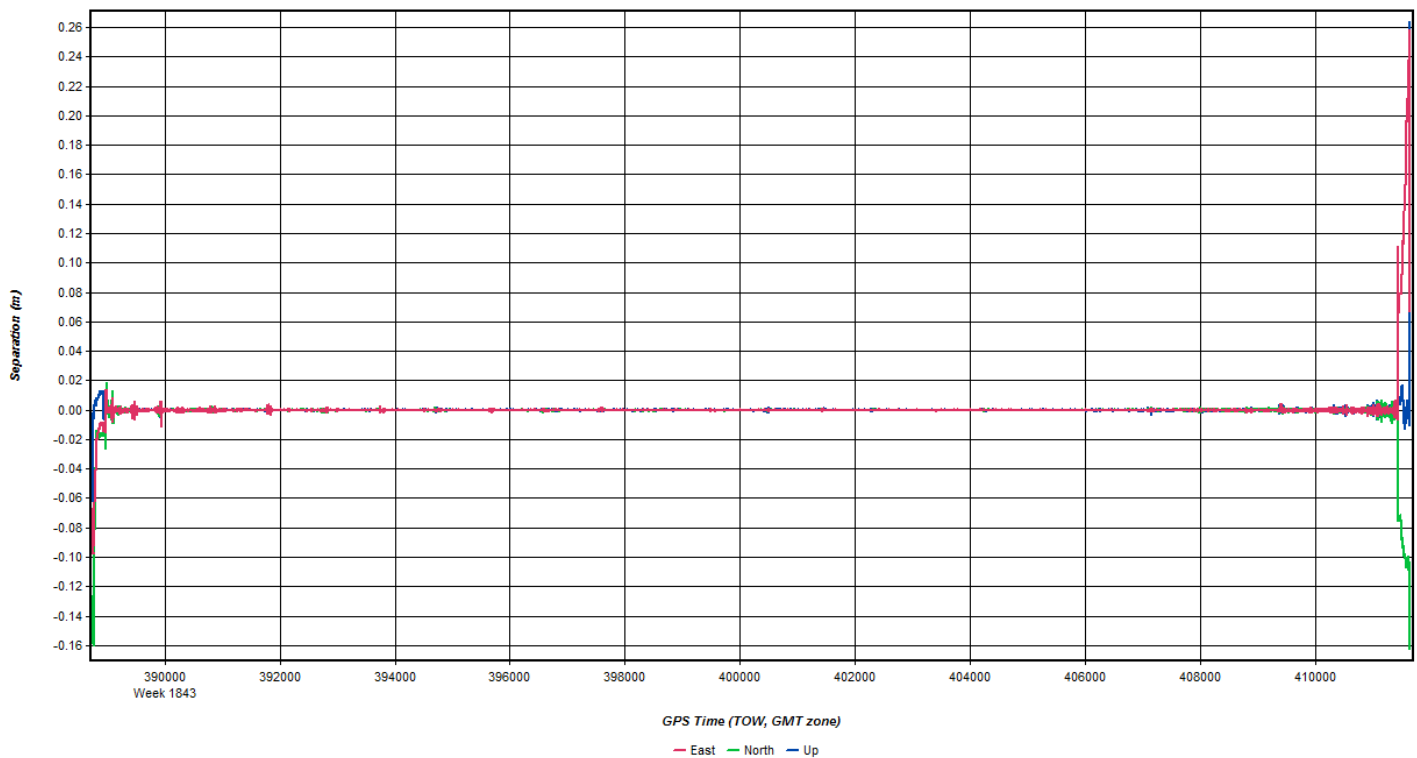
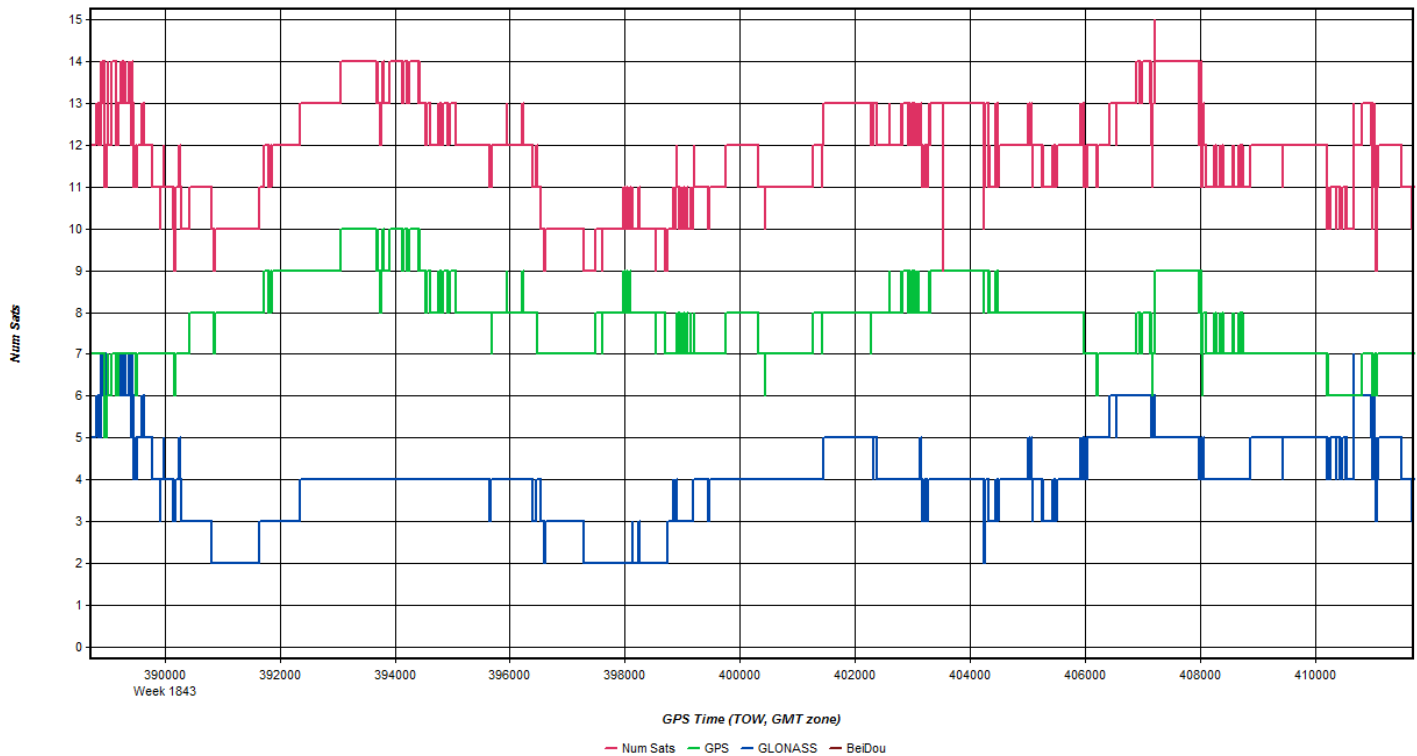
Measured height: 0.000 m
 ARP to L1 offset: 0.088 m
 Applied height: 0.088 m

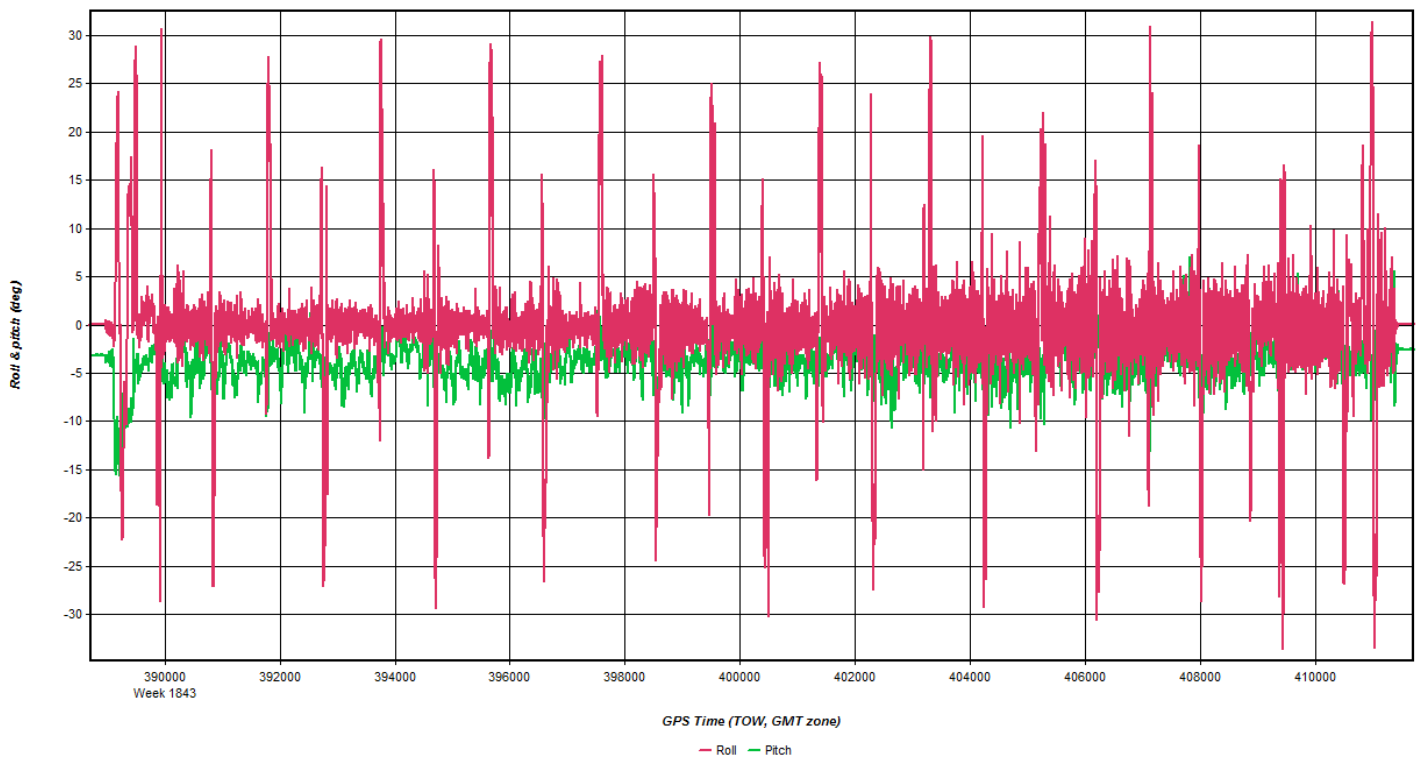
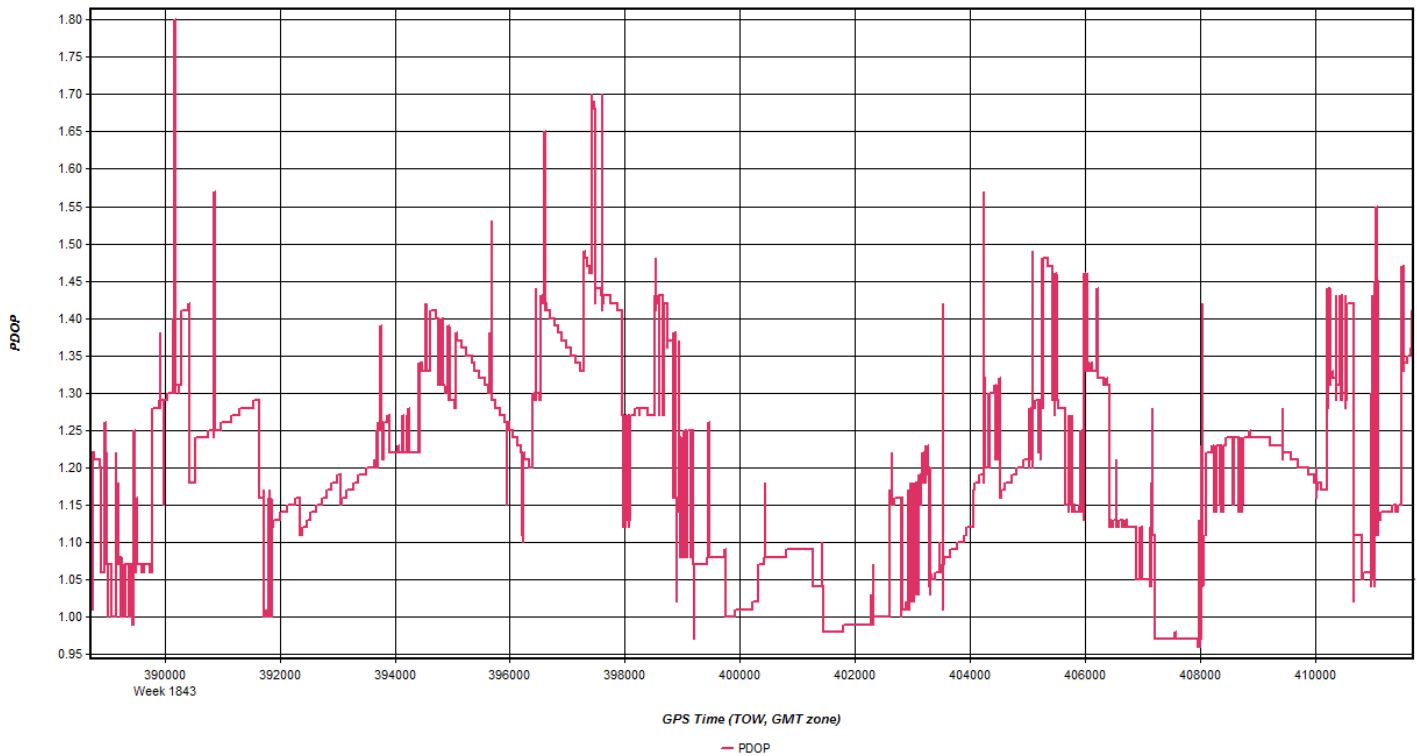
Measured to
☒ ARP
☐ L1 Phase Centre
 Compute From Slant

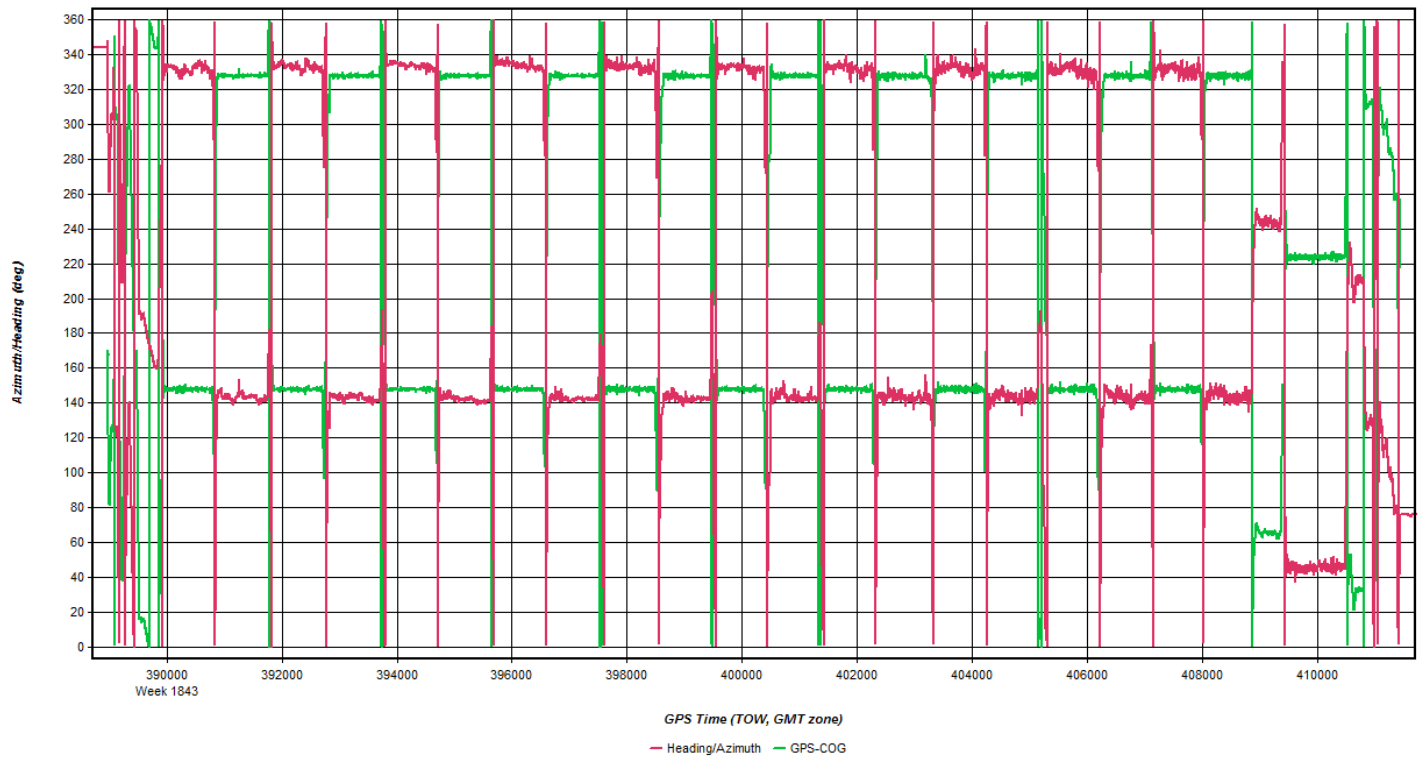
OK Cancel

May 7, 2015-A (7234)









Flight Log

December 9, 2015

23902 Clinton Essex NY
Area Lake Placid Area SN7234 105kts
Contact: J. Berry
at 859-277-8700

FLIGHT LINE	FL MILES	ALTITUDE (feet)	BASE STATION	DATE FLOWN	S/N	FIELD QC	COMMENTS
3040	26.61 2563	6857	JBG	150507	S-N		165129
3041	26.78 2563	6801	JBG	150507	N-S		163609
3042	26.97 2563	6752	JBG	150507	S-N		161825 (160315) (160315)
3043	27.14 2563	6742	JBG	150507	N-S		154621
3044	27.31 2563	6719	JBG	150507	S-N		153050
3045	27.47 2563	6709	JBG	150507	N-S		151514
3046	27.63 2563	6703	JBG	150507	S-N		145932
3047	27.78 2563	6654	JBG	150507	N-S		144350
3048	27.92 2563	6624	JBG	150507	S-N		142733
3049	28.05 2563	6608	JBG	150507	N-S		141057
3050	28.15 2563	6581	JBG	150507	S-N		138507
3051	28.26 2563	6545	JBG	150507	N-S		133918
3052	28.38 2563	6532	JBG	150507	S-N		

Flight Logs should be FAXED to 859-277-8901 immediately after each day's flights with lines and other details noted

Operator TOM DAY
Pilot TYLER COLLINS

AIRCRAFT Tail Number 269JE
Sensor Serial Number 7234 ACS 70

Date 150507

Page 4 of 9

23902 Clinton Essex NY			Area Lake Placid Area SN7234 105kts			Flight Logs	
FLIGHT LINE	FL MILES	ALTITUDE (feet)	BASE STATION	DATE FLOWN	S/N	FIELD QC	COMMENTS
3053	28.50 2563	6522	JBG	150507	N-S		132341
3054	28.63 2563	6512	JBG	150507	S-N		130715 Smooth
3055	28.76 2563	6503	JBG	150507	N-S		125052
3056	28.89 2563	6411	JBG	150507	S-N		123449
3057	28.99 2563	6398	JBG	150507	N-S		1211853
3058	29.42 2563	6398	JBG	150506	S-N		171205 173220 plane w9
3059	30.11 2563	6371	JBG	150506	N-S		165531
3060	30.94 2563	6371	JBG	150506	S-N		163846
3061	31.22 2563	6352	JBG	150506	N-S		162114
3062	31.47 2563	6352	JBG	150506	S-N		160429
3063	31.70 2563	6342	JBG	150506	N-S		154700
3064	31.94 2563	6329	JBG	150506	S-N		152927
3065	32.19 2563	6322	JBG	150506	N-S		150920

Operator Tom Day
Pilot TUMPL 0451N5

AIRCRAFT Tail Number 269JE
Sensor Serial Number 58234

Page 5 of 9
Date 20150506

Flight Logs should be FAXED to 859-277-8901 immediately after each day's flights with lines and other details noted.

Base Station Log

Coordinate/Antenna Settings

Master Remote

Base Station
1: NYET Name: NYET ☐ Disabled
File: D:\Proc\23902_Clinton_Essex\TJCZ\20150507_115304_SEN723

Coordinates
Latitude: North 44 12 34.85080 Compute from PPP
Longitude: West 73 32 25.85231 Enter Grid Values
Ellipsoidal height: 174.246 m Enter MSL Height
Datum: NAD83(2011) Datum Options
Select From Favorites Add To Favorites Use Average Position

Antenna Height
From station file: LEIAT504, LEIS View STA File
Antenna profile: LEIAT504, LEIS Info
Measured height: 0.000 m Measured to
ARP to L1 offset: 0.088 m ☒ ARP
Applied height: 0.088 m ☐ L1 Phase Centre
Compute From Slant

OK Cancel

Coordinate/Antenna Settings

Master Remote

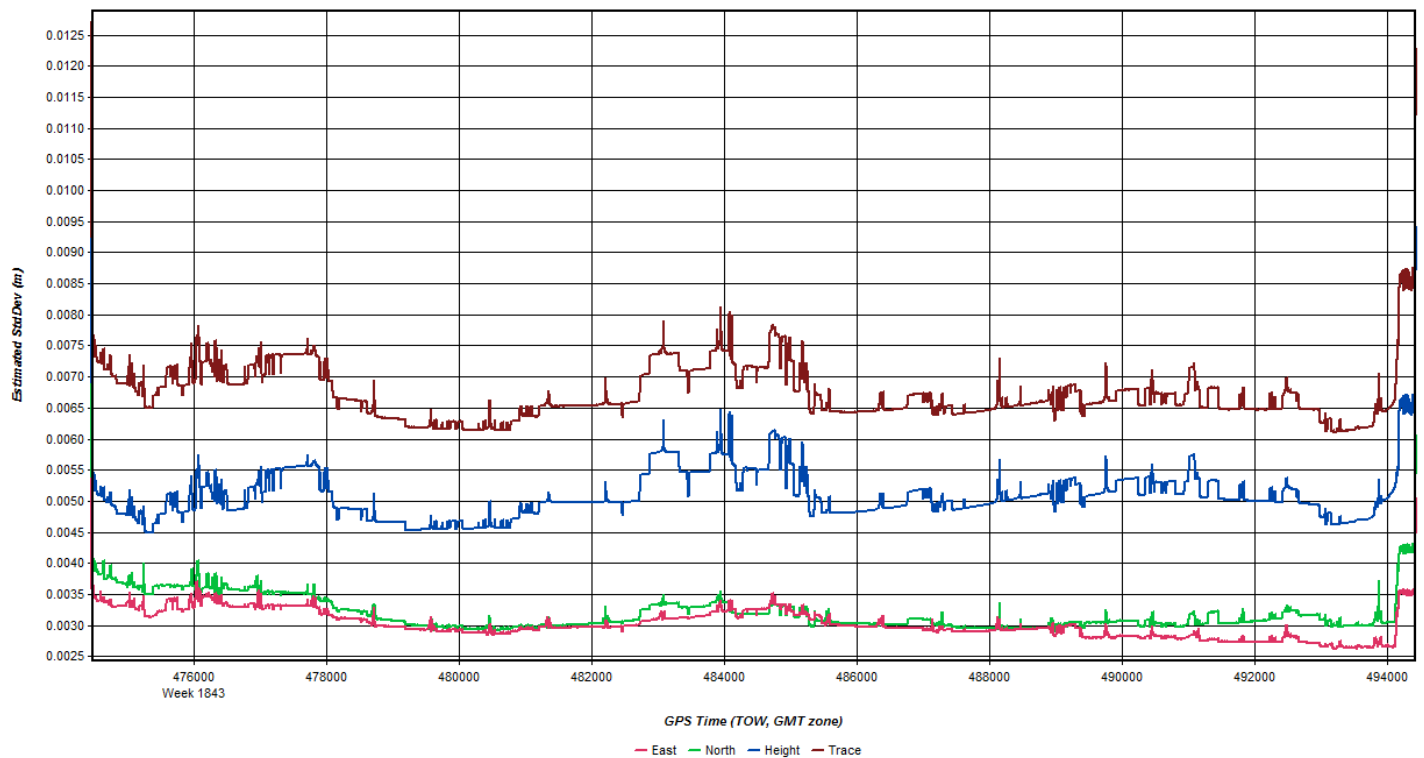
Base Station
2: NYRB Name: NYRB ☐ Disabled
File: D:\Proc\23902_Clinton_Essex\TJCZ\20150507_115304_SEN723

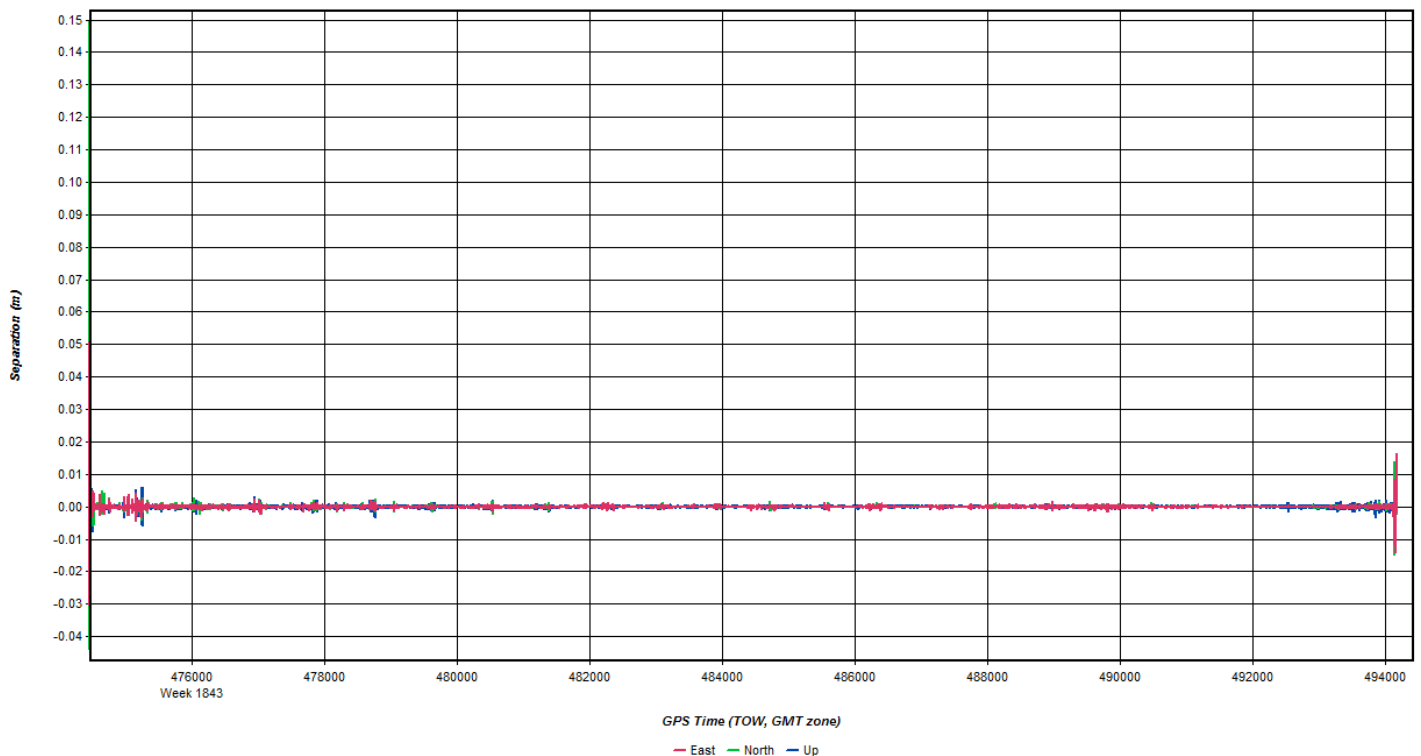
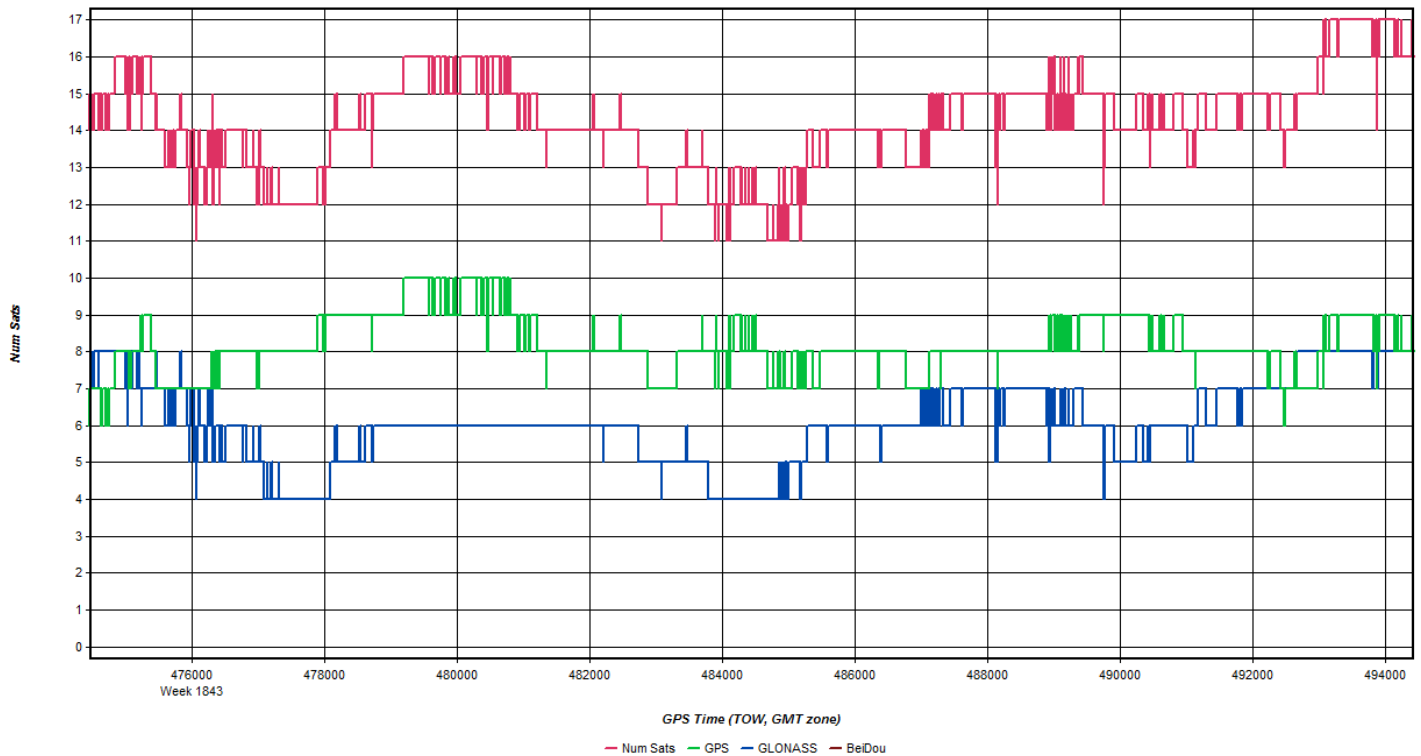
Coordinates
Latitude: North 44 18 13.92280 Compute from PPP
Longitude: West 74 04 42.07519 Enter Grid Values
Ellipsoidal height: 466.846 m Enter MSL Height
Datum: NAD83(2011) Datum Options
Select From Favorites Add To Favorites Use Average Position

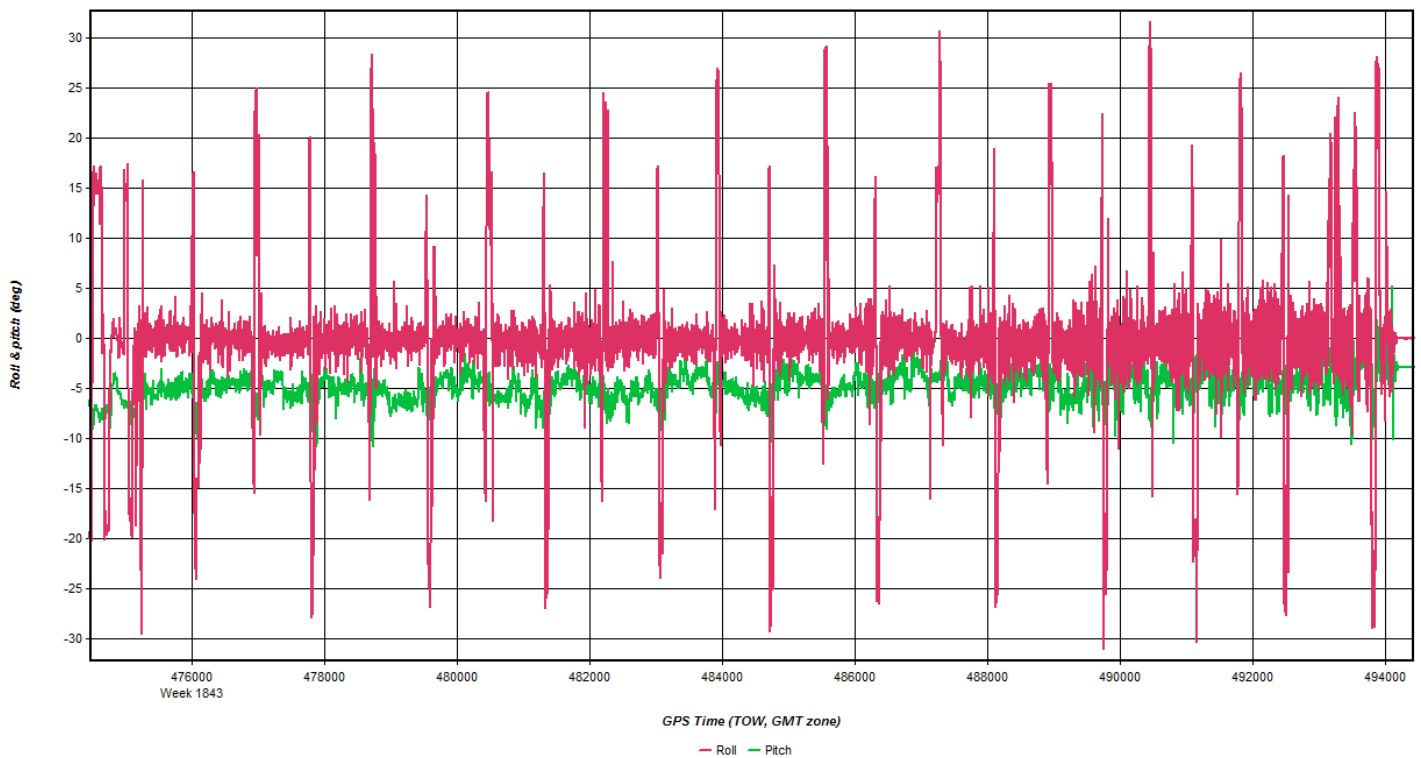
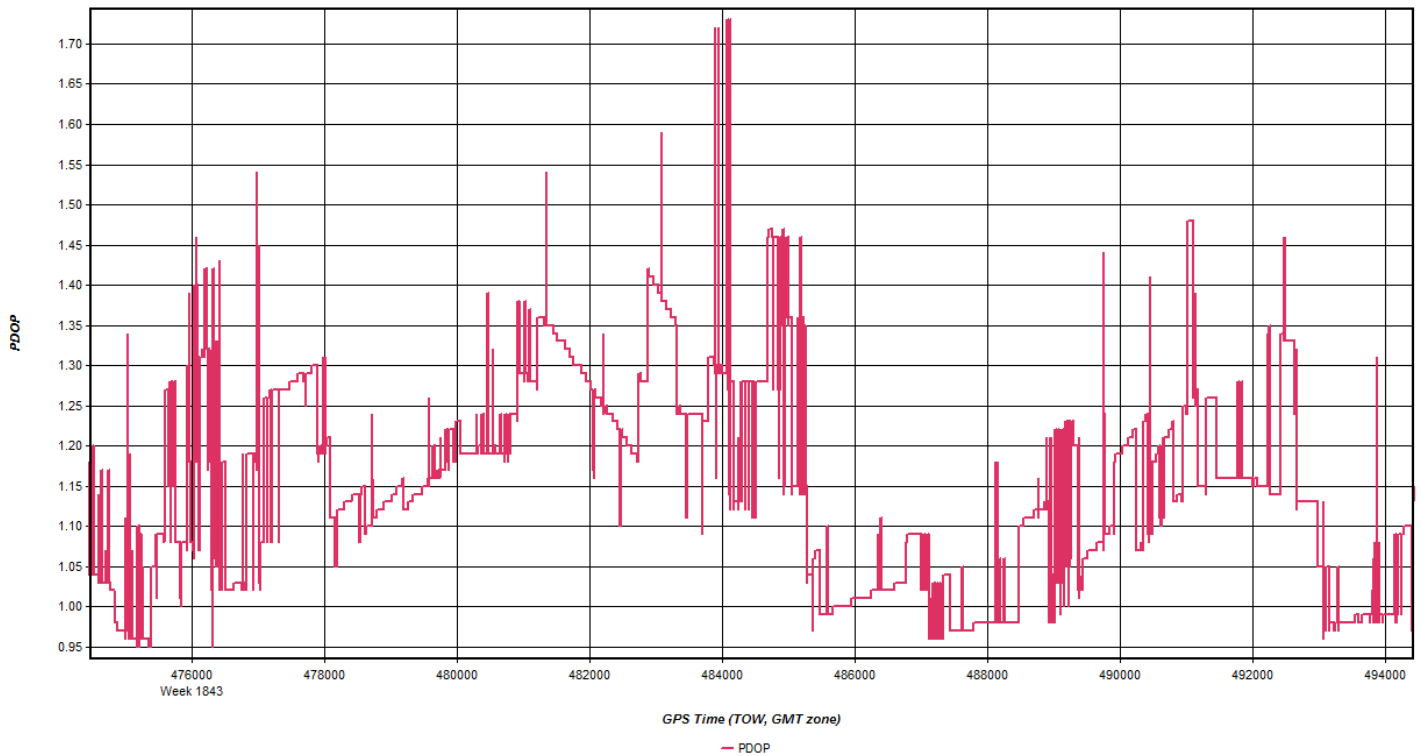
Antenna Height
From station file: LEIAT504GG, LEIS View STA File
Antenna profile: LEIAT504GG, LEIS Info
Measured height: 0.000 m Measured to
ARP to L1 offset: 0.087 m ☒ ARP
Applied height: 0.087 m ☐ L1 Phase Centre
Compute From Slant

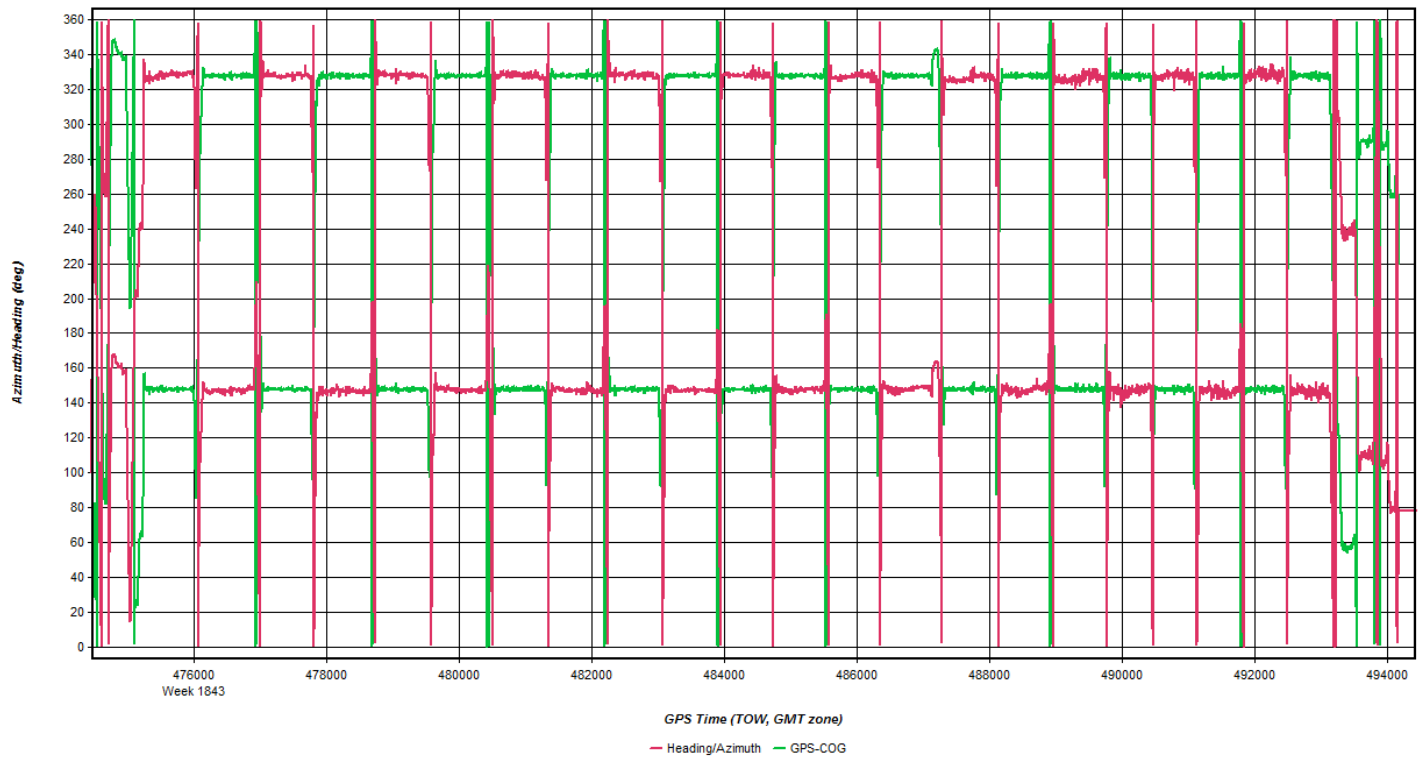
OK Cancel

May 8, 2015-A (7234)









Flight Log

23902 Clinton Essex NY				Area Lake Placid Area SN7234 105kts			Flight Logs	
FLIGHT LINE	FL MILES	ALTITUDE (feet)	BASE STATION	DATE FLOWN	S/N	FIELD QC	COMMENTS	Contact: J. Beny at 859-277-8700
3014	18.91 2563	7559	JBG	150508	P2 S-N		190807	
3015	19.06 2563	7559	JBG	150508	P2 N-S		185637 2.4 mi. reply. 191808	
3016	19.21 2563	7559	JBG	150508	S-N		164906 L H4807 170150	
3017	19.37 2563	7562	JBG	150508	N-S		163753	
3018	19.54 2563	7549	JBG	150508	S-N		1602629	
3019	19.71 2563	7549	JBG	150508	N-S		161455	
3020	20.71 2563	7359	JBG	150508	S-N		160339	
3021	22.50 2563	7402	JBG	150508	N-S		Down 155028 getting 11 bumps	
3022	23.61 2563	7421	JBG	150508	S-N		155028 155632	
3023	23.76 2563	7441	JBG	150508	N-S		152310	
3024	23.93 2563	7451	JBG	150508	S-N		150649	
3025	24.10 2563	7441	JBG	150508	N-S		145318	
3026	24.26 2563	7408	JBG	150508	S-N		143946 over the base station	

Flight Logs should be FAXED to 859-277-8901 immediately after each day's flights with lines and other details noted

Operator T.O.M. DAY
Pilot T.J. USE CONSENSUS

AIRCRAFT Tail Number N2691E
Sensor Serial Number 5827234

Page 2 of 9
Date 150508

02

23902 Clinton Essex NY				Area Lake Placid Area SN7234 105kts			Flight Logs	
FLIGHT LINE	FL MILES	ALTITUDE (feet)	BASE STATION	DATE FLOWN	S/N	FIELD QC	COMMENTS	
3027	24.41 2563	7398	JBG	150508	N-S		142606	
3028	24.57 2563	7392	JBG	150508	S-N		141221	
3029	24.73 2563	7379	JBG	150508	N-S		135823	
3030	24.90 2563	7375	JBG	150508	S-N		134326	
3031	25.06 2563	7372	JBG	150508	N-S		132903	
3032	25.21 2563	7372	JBG	150508	S-N		131409	
3033	25.36 2563	7372	JBG	150508	N-S		125919	
3034	25.54 2563	7372	JBG	150508	S-N		124431	
3035	25.72 2563	7270	JBG	150508	N-S		123026	
3036	25.92 2563	7169	JBG	150508	S-N		121535	
3037	26.10 2563	7113	JBG	150508	N-S		120045	System ALS config. issues. data not reflected.
3038	26.27 2563	7057	JBG	150507	S-N		172112	
3039	26.44 2563	7011	JBG	150507	N-S		170624	

Flight Logs should be FAXED to 859-277-5901 immediately after each day's flights with lines and other details noted

Operator Tom Day
Pilot TYLER LOUIS
AIRCRAFT Tail Number N269JE
Sensor Serial Number 547234
Page 3 of 9
Date 150507

Base Station Log

Coordinate/Antenna Settings

Master Remote

Base Station
 1: NYRB Name: NYRB ☐ Disabled
 File: D:\Proc\23902_Clinton_Essex\TJCZ\20150508_114217_F1_SEN

Coordinates
 Latitude: North 44 18 13.92280 Compute from PPP
 Longitude: West 74 04 42.07519 Enter Grid Values
 Ellipsoidal height: 466.846 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

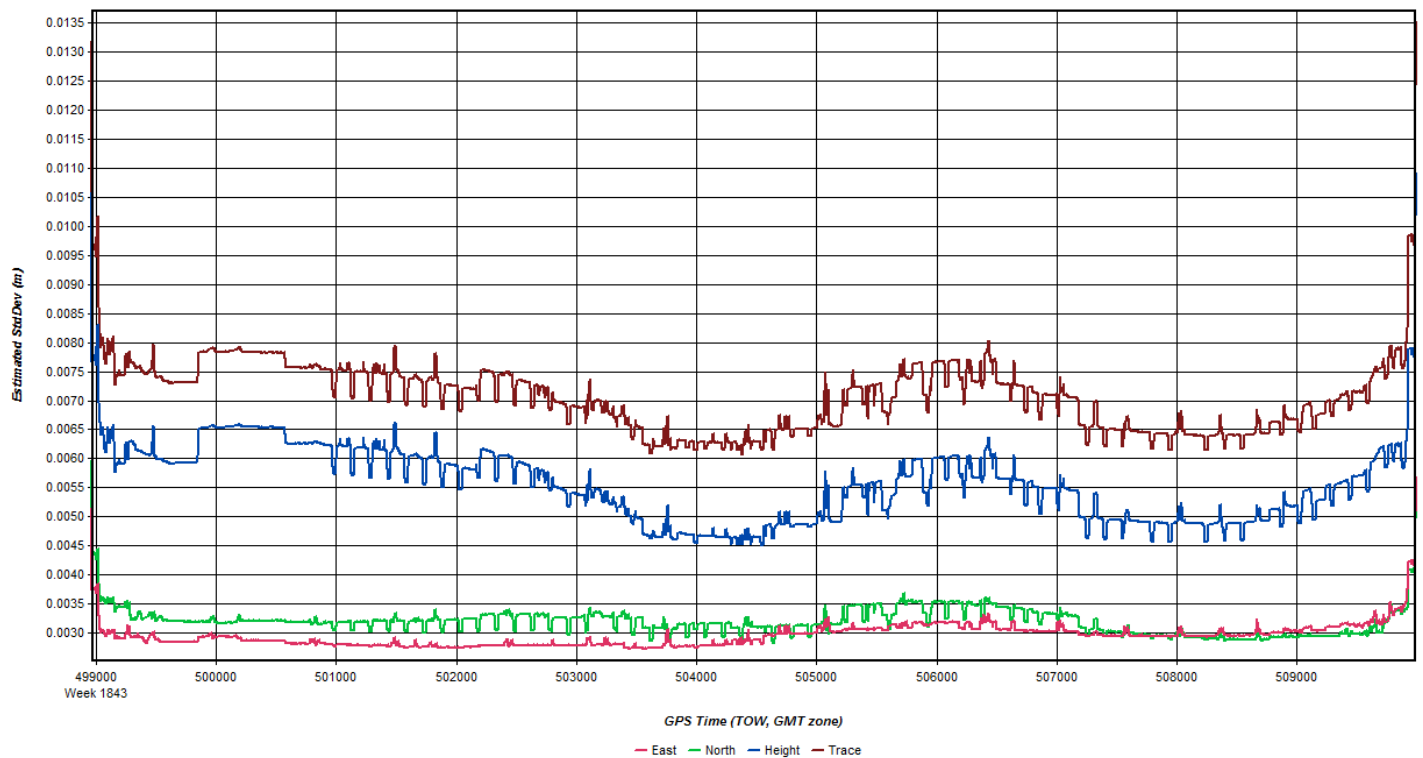
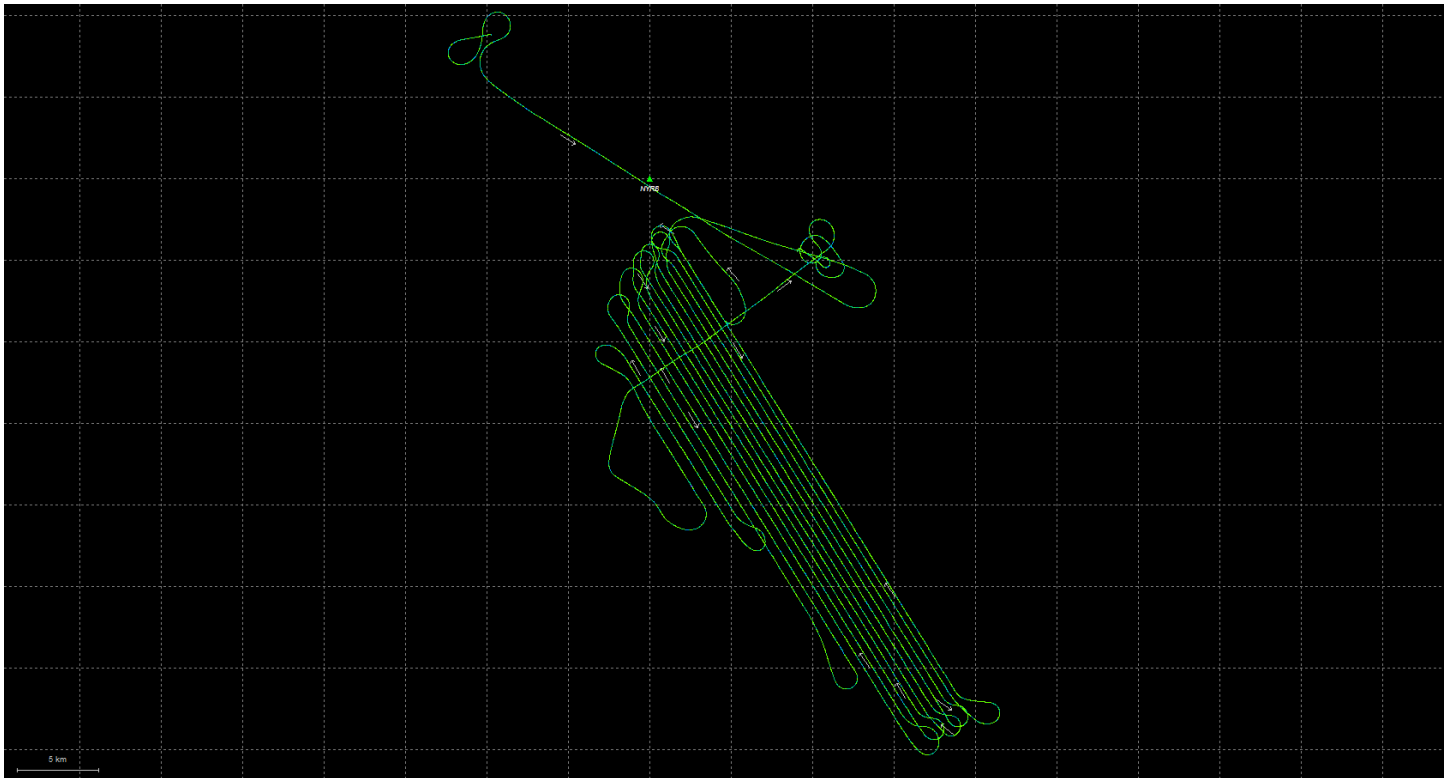
Antenna Height
 From station file: LEIAT504GG, LEIS View STA File
 Antenna profile: LEIAT504GG, LEIS Info

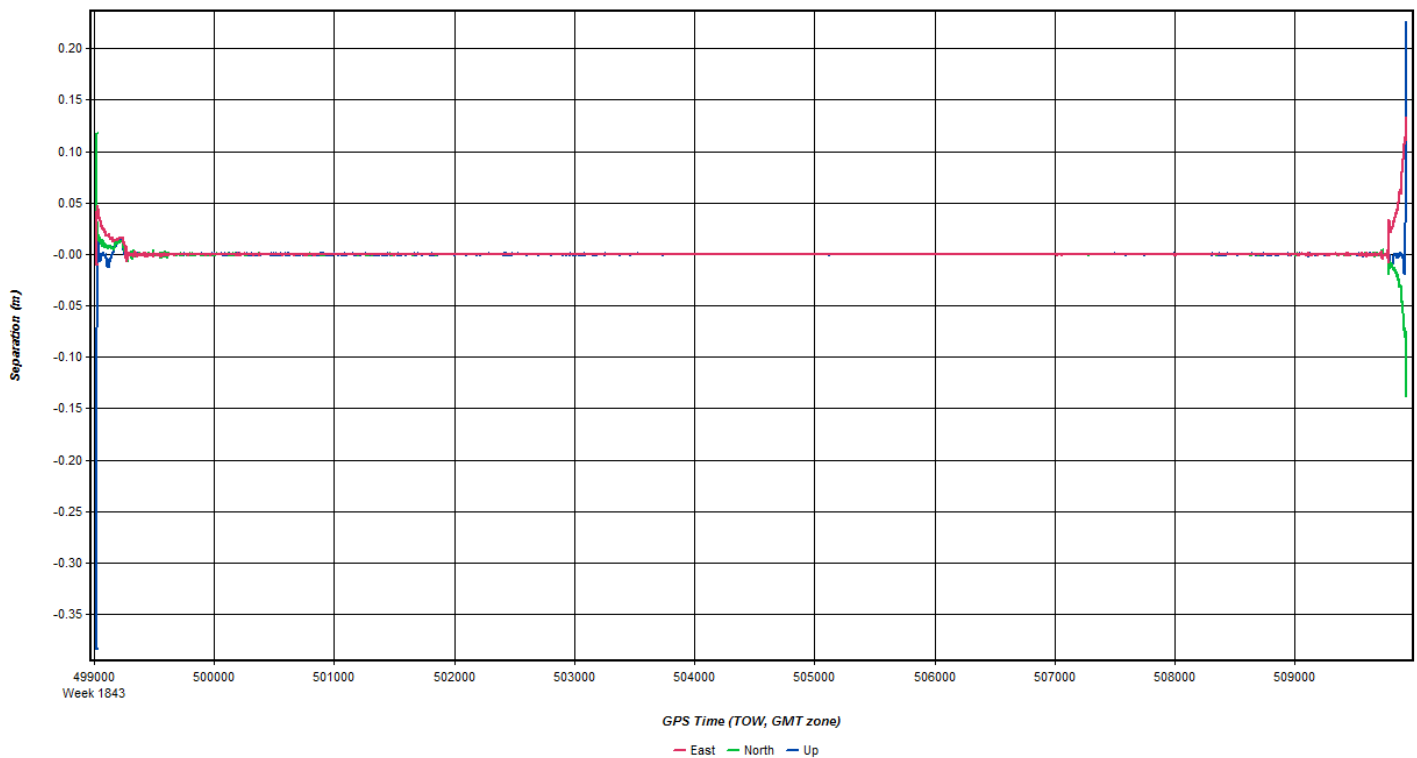
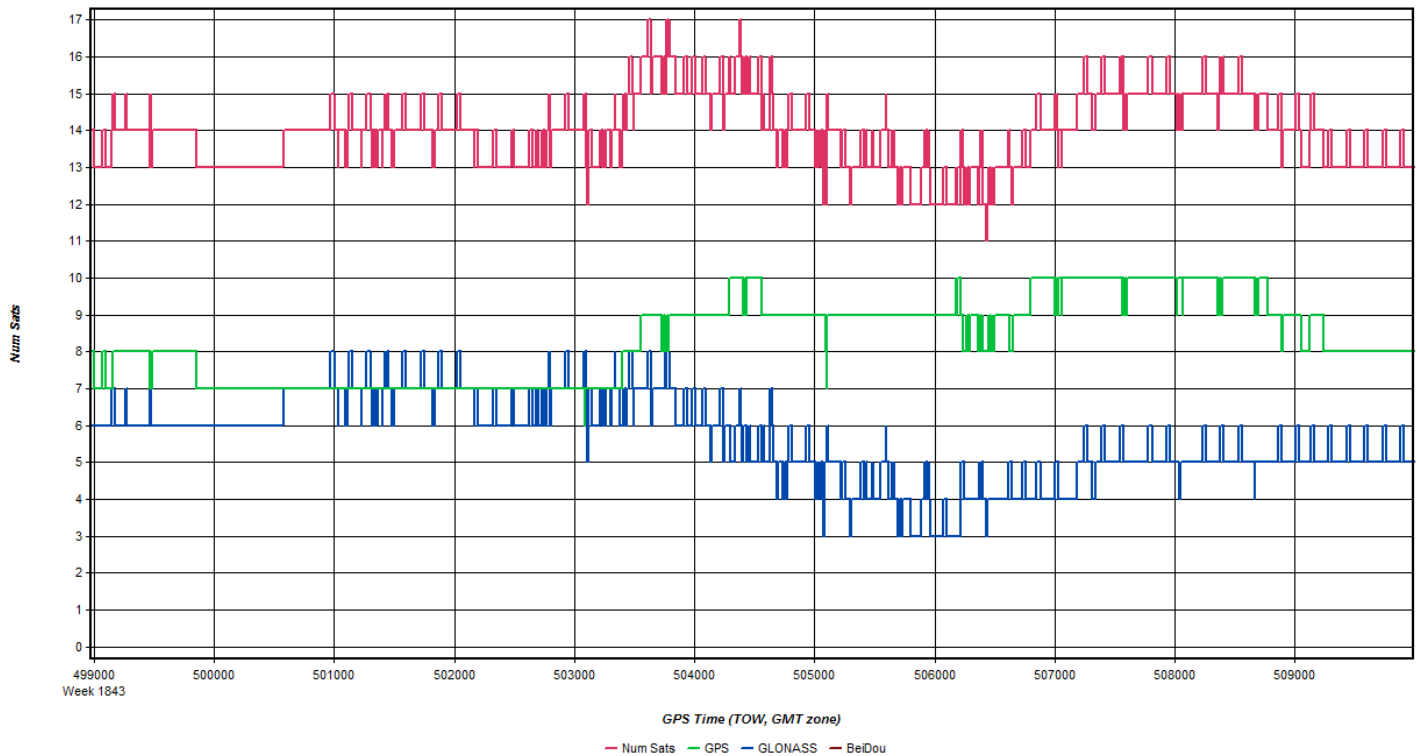
Measured height: 0.000 m
 ARP to L1 offset: 0.087 m
 Applied height: 0.087 m

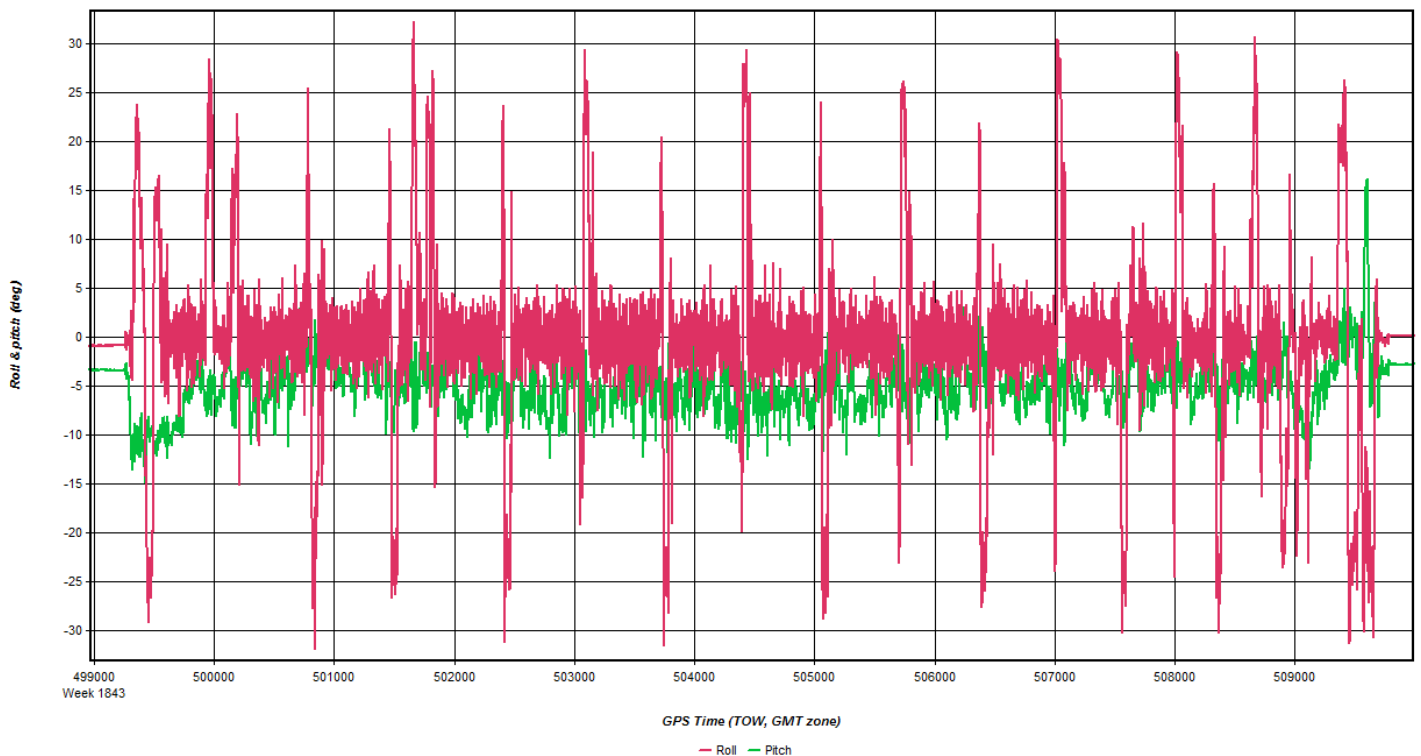
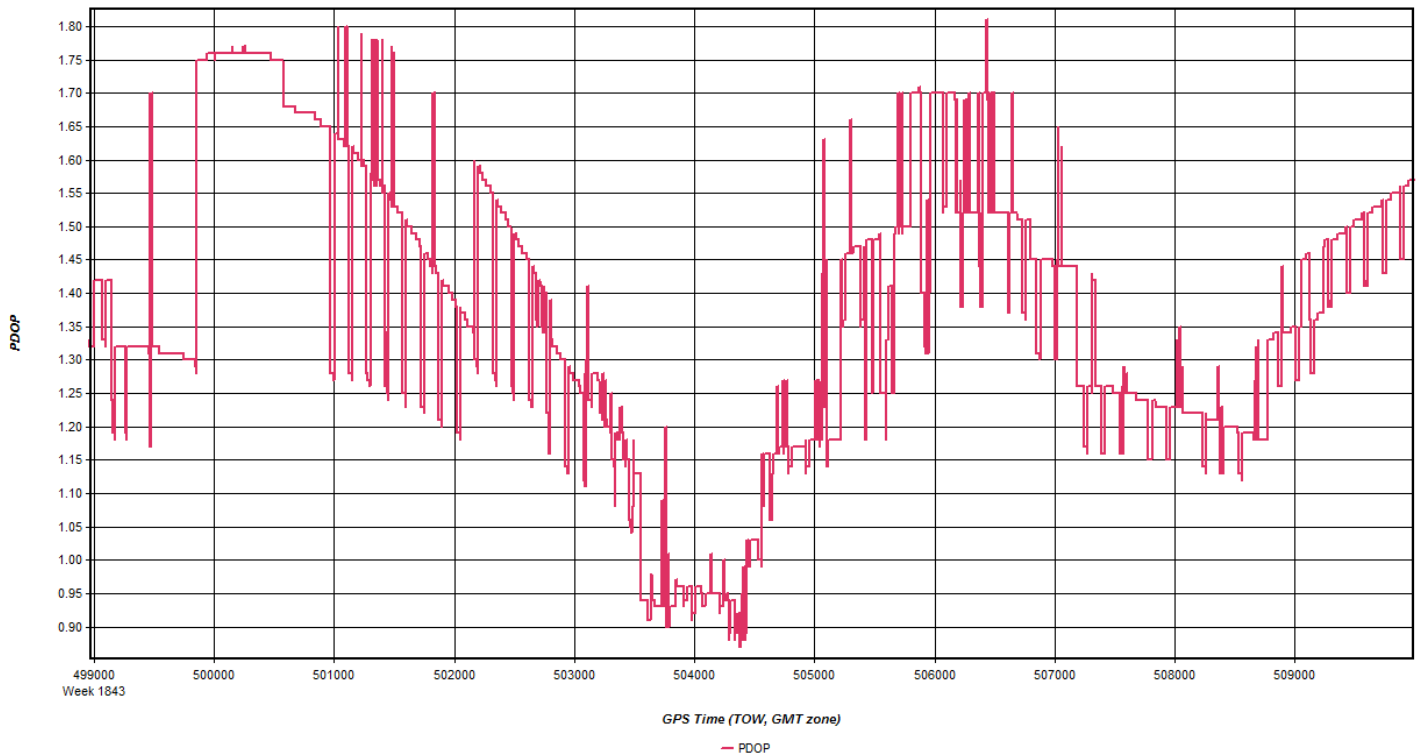
Measured to
☒ ARP
☐ L1 Phase Centre
 Compute From Slant

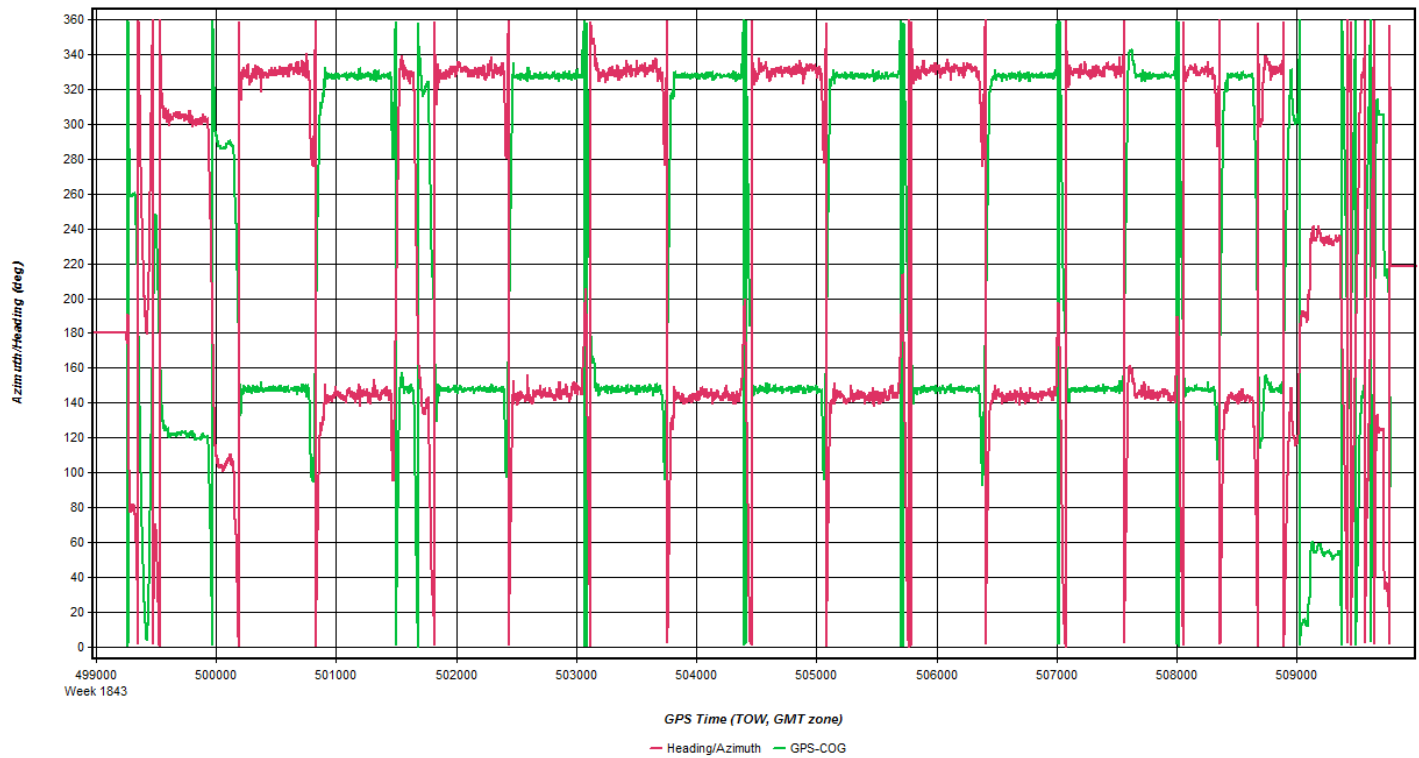
OK Cancel

May 8, 2015-B (7234)









Flight Log

23902 Clinton Essex NY				Area Lake Placid Area SN7234 105kts			Flight Logs	
							Contact: J. Berry at 869-277-8700	
FLIGHT LINE	FL MILES	ALTITUDE (feet)	BASE STATION	DATE FLOWN	S/N	FIELD QC	COMMENTS	
3001	1.70 2563	8061	P359	150505	FL S-N		Snowing, no deciduous trees, 1 212506 real Snowy #211958	
3002	6.64 2563	7907	JB6	150508	FL S-N		211335	
3003	7.68 2563	7956	JB6	150508	FL N-S		210732	
3004	7.83 2563	7913	JB6	150508	FL S-N		205210200	
3005	15.35 2563	7753	JB6	150508	FL N-S		205134	
3006	16.54 2563	7644	JB6	150508	FL S-N		204134	
3007	17.87 2563	7592	JB6	150508	FL N-S		203003	
3008	18.06 2563	7582	JB6	150508	FL S-N		201896	
3009	18.17 2563	7572	JB6	150508	FL N-S		200755	
3010	18.28 2563	7566	JB6	150508	FL S-N		195651	
3011	18.40 2563	7566	JB6	150509	FL N-S		194550	
3012	18.54 2563	7566	JB6	150508	FL S-N		193444	
3013	18.74 2563	7559	JB6	150508	FL N-S		192345	

Flight Logs should be FAXED to 859-277-8901 immediately
after each day's flights with lines and other details noted

Operator JOM DAY
Pilot TYLER CALVINIS

AIRCRAFT Tail Number NR69JE
Sensor Serial Number 5617884

Page 1 of 9
Date 2050508

Base Station Log

Coordinate/Antenna Settings

Master Remote

Base Station
 1: NYRB Name: NYRB ☐ Disabled
 File: D:\Proc\23902_Clinton_Essex\TJCZ\20150508_183200_F2_SEH

Coordinates
 Latitude: North 44 18 13.92280 Compute from PPP
 Longitude: West 74 04 42.07519 Enter Grid Values
 Ellipsoidal height: 466.846 m Enter MSL Height
 Datum: NAD83(2011) Datum Options
 Select From Favorites Add To Favorites Use Average Position

Antenna Height
 From station file: LEIAT504GG, LEIS View STA File
 Antenna profile: LEIAT504GG, LEIS Info

Measured height: 0.000 m
 ARP to L1 offset: 0.087 m
 Applied height: 0.087 m

Measured to
☒ ARP
☐ L1 Phase Centre
 Compute From Slant

OK Cancel

Appendix B

Survey Report

April 28, 2015

Field Survey Report of LiDAR Ground Control & QC Points

TO# 52 – New York QL2 LiDAR
Clinton – Essex – Lake Champlain
USGS Contract: G10PC00026
USGS Task Order: G14PD00943
Photo Science Project No. 23902



1400 Independence Road
Rolla, Missouri 65401

Presented by



A Quantum Spatial Company

1410 Indian Trail Road
Norcross, Georgia 30093
770-564-9843





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PROJECT PROCEDURE SUMMARY

Project Description

Photo Science, a Quantum Spatial company, was contracted by U.S. Geological Survey (USGS) under task order number G14PD00943 to field survey LiDAR calibration control points and quality control points in support of TO# 52 – New York Clinton – Essex – Lake Champlain QL2 LiDAR. There are 58 calibration points, 25 non vegetated bare earth check points, and 80 vegetated check points divided as 40 forested, 20 swamp/marsh land, and 20 tall weeds based on land cover analysis. Each class is dispersed through the project, totaling 156 points. In addition there are two optional LiDAR coverage areas, each consisting of eight calibration points.

Field Procedure

Field work began on October 24th, 2014 and came to a temporary stop on December 3rd, 2014 due to weather restrictions. The remainder of the field work was completed from March 27rd, 2015 to April 7th, 2015. A static GPS survey was performed using 4 Trimble R8-Model 3 GNSS receivers. Each point was set on a flat surface at least five meters away from any significant elevation change and occupied for a minimum of 20 minutes. Each point also shares common time with at least one other control point within the project AOI. For any of the QC points that were unable to be collected with GPS were located conventionally with a Trimble M3 2" total station utilizing points previously set with GPS. Data sheets for each point were filled out with information including point type, general location, occupation date, equipment used, and photographs. Final coordinates, point ties, and RMSE values were filled in after the post processed network adjustment.

Office Procedure

The network was constrained to the NGS CORS network in a weighted least squares adjustment using Trimble Business Center Software.

Reporting Procedure

The North American Datum of 1983 (NAD83 (2011)), UTM Zone 18N projection was referenced for reporting the horizontal coordinates in meters. The vertical elevations are referenced to the North American Vertical Datum of 1988 (NAVD 88) utilizing the GEOID12A model and are reported in meters.

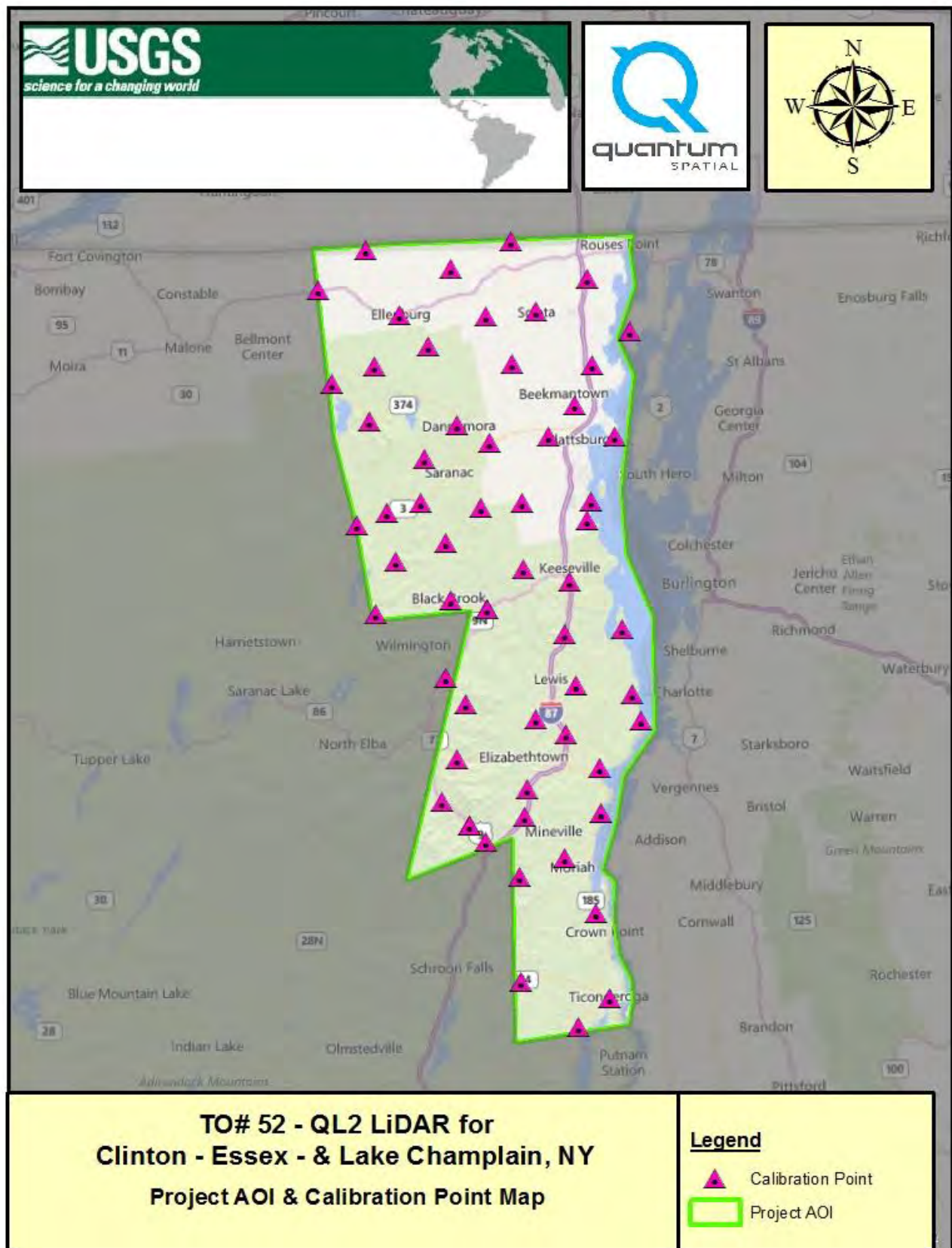
The Horizontal RMSE at the 95% confidence level is 0.007 meter.

The Elevation RMSE at the 95% confidence level is 0.019 meter.

The 3-Dimensional RMSE at the 95% confidence level is 0.020 meter.



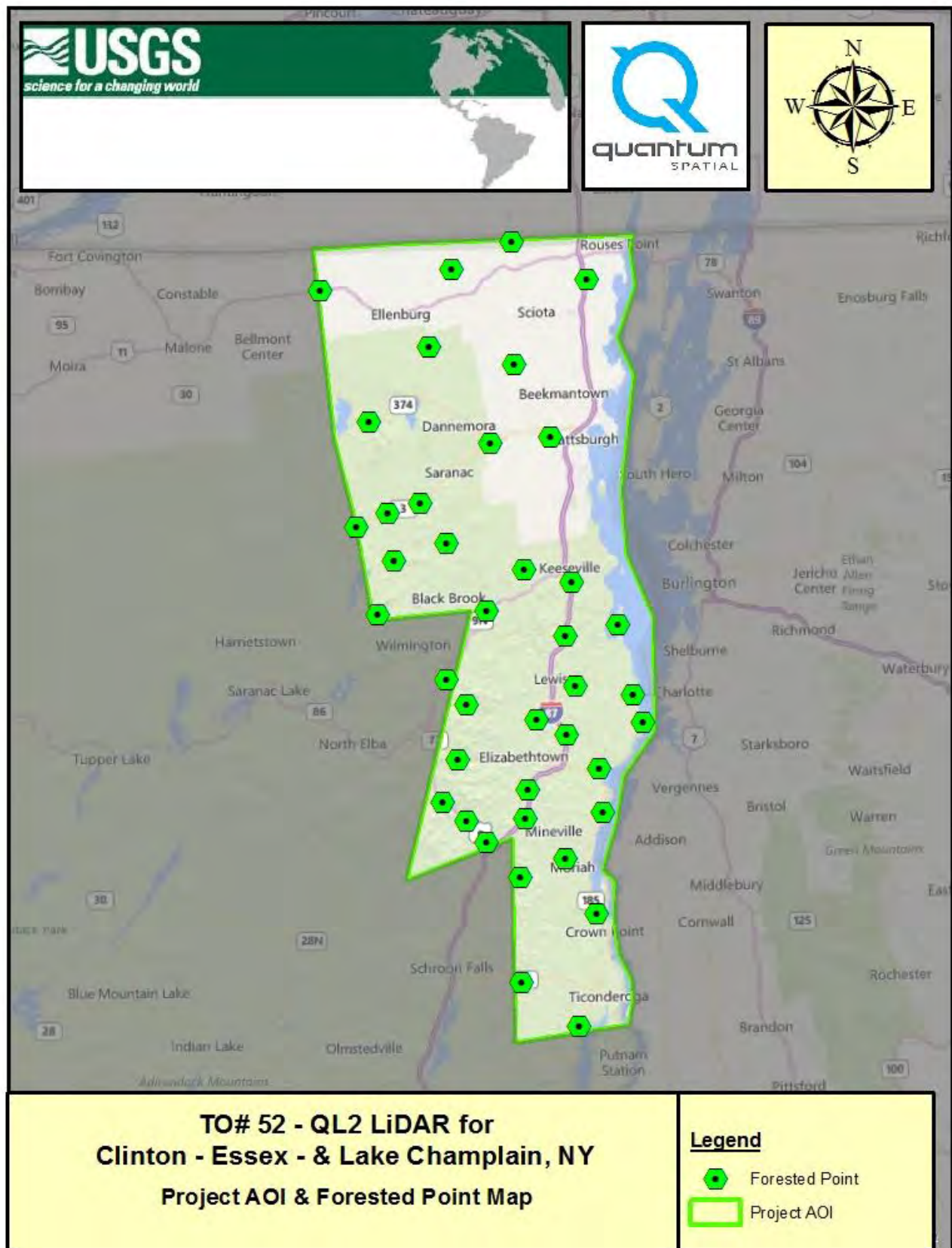
PROJECT AOI & POINT MAPS

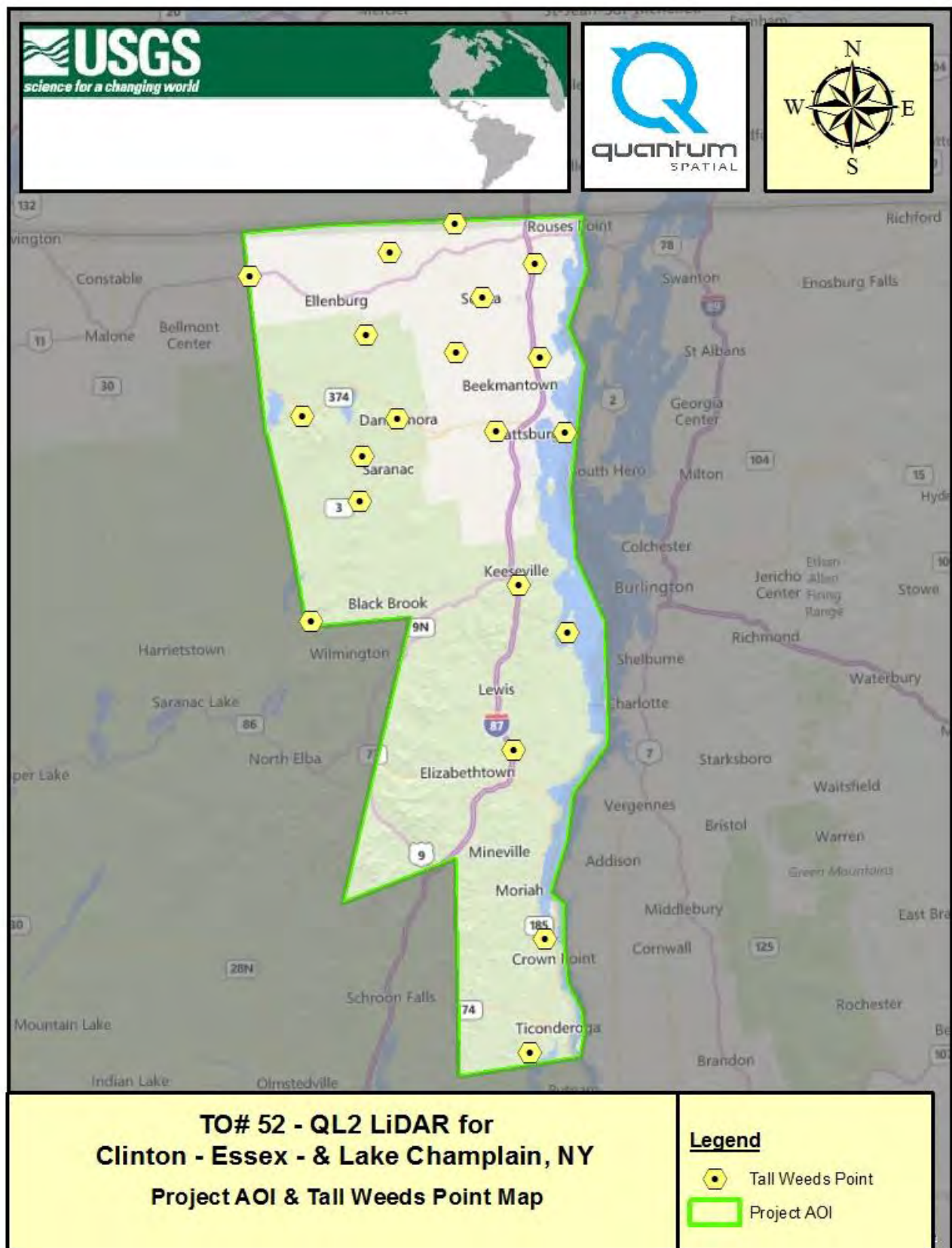


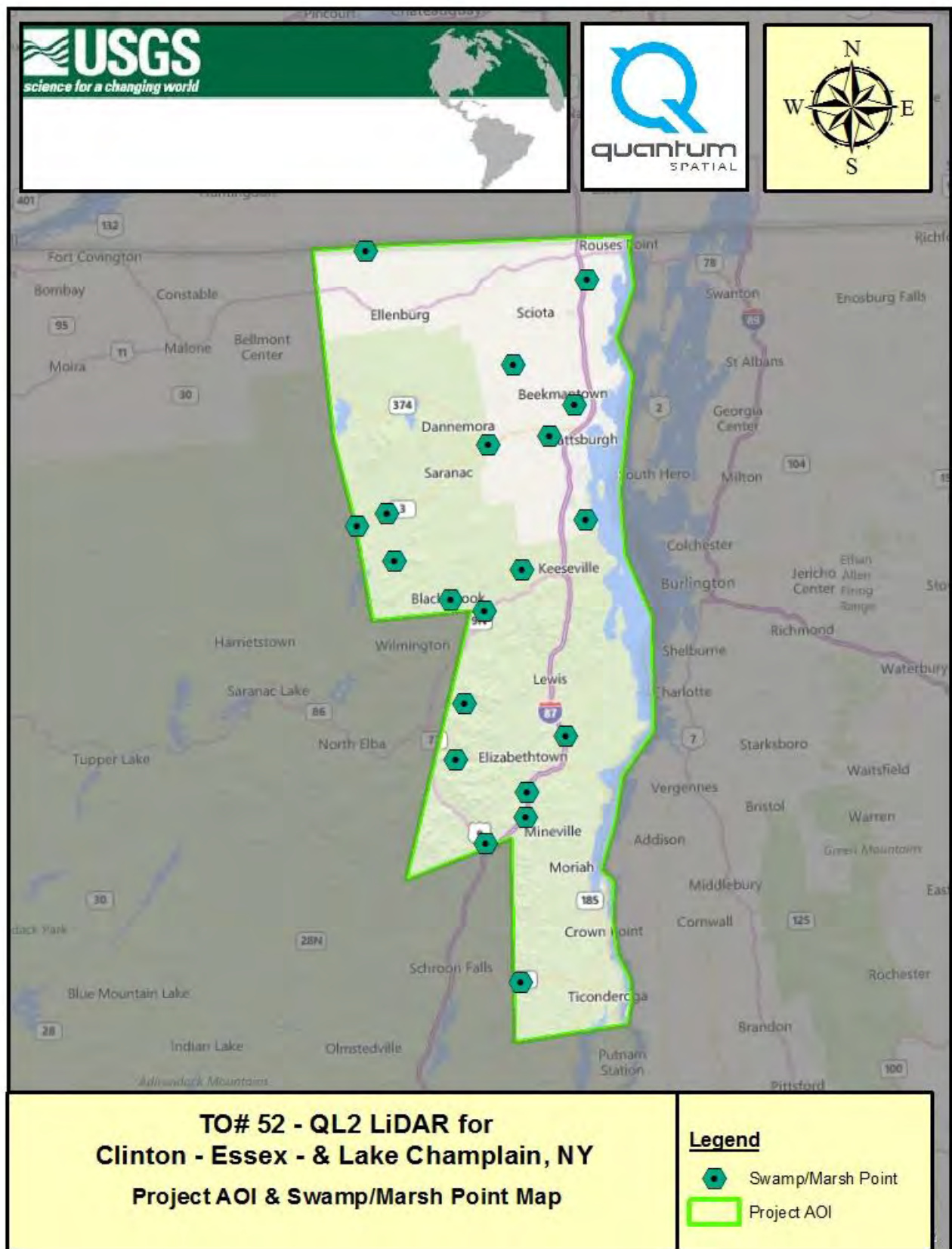


Legend

-  Bare Earth Point
-  Project AOI









FINAL POINT COORDINATES

**CALIBRATION POINT COORDINATES**

Horizontal Datum - NAD83(2011)
UTM Zone 18 North
Vertical Datum - NAVD 88
Geoid - GEOID12A
Units – Meters

POINT_ID	Northing	Easting	Elevation
LC01	4858876.207	611951.955	289.664
LC02	4851298.345	621615.759	149.618
LC03	4856066.214	627007.539	55.204
LC04	4870560.096	624623.386	57.276
LC05	4879807.969	619328.060	240.273
LC06	4876681.274	611811.768	361.682
LC07	4882626.293	605927.960	336.025
LC08	4885363.993	603244.802	408.616
LC08	4885363.995	603244.790	408.568
LC09	4889317.783	598548.029	387.007
LC10	4896611.318	601097.703	509.343
LC11	4891534.163	613090.862	364.381
LC12	4886778.414	612641.501	342.316
LC13	4887469.057	625479.253	81.943
LC14	4895029.120	625228.438	77.926
LC15	4903050.307	632269.461	35.265
LC16	4900804.712	619566.473	134.150
LC17	4903433.330	614474.749	200.302
LC18	4910336.171	599347.592	257.371
LC19	4905980.241	602689.678	482.064
LC20	4907507.991	630853.499	53.576
LC21	4909016.519	621285.350	109.833
LC22	4918589.756	629049.443	46.609
LC23	4917757.366	619405.406	269.414
LC24	4926607.598	620300.825	150.389
LC25	4928822.730	612329.691	124.117
LC26	4921934.235	606163.087	164.619
LC26	4921934.241	606163.095	164.551
LC27	4923543.623	600178.131	299.437
LC28	4921189.377	587456.979	513.150
LC29	4930113.618	590668.589	426.921



LC30	4936079.952	584120.406	364.361
LC31	4938320.154	589266.618	345.027
LC32	4940045.551	594961.369	353.417
LC33	4939201.882	605153.035	216.507
LC34	4939993.068	612211.950	170.256
LC35	4933155.749	599203.240	363.057
LC36	4940239.968	623835.867	37.255
LC37	4937116.051	623083.548	39.478
LC38	4951101.557	627906.633	46.269
LC39	4951217.860	616705.140	118.516
LC40	4950106.201	606742.318	233.038
LC41	4953179.915	601069.186	467.508
LC42	4947345.728	595548.918	437.639
LC43	4953722.978	586360.834	520.206
LC44	4960180.132	579929.003	405.120
LC45	4963012.587	587094.783	472.603
LC46	4966461.031	596325.232	397.454
LC47	4963564.354	610545.537	300.502
LC48	4956556.211	621089.688	44.855
LC49	4963255.864	623917.280	47.281
LC50	4968887.174	630304.300	32.882
LC51	4977873.446	623089.618	63.694
LC52	4972448.605	614484.585	114.930
LC53	4971623.874	606121.629	188.604
LC54	4984270.956	610200.465	97.200
LC55	4979676.825	600088.316	198.655
LC56	4971636.437	591435.633	294.442
LC57	4982663.163	585712.857	313.072
LC58	4975874.631	577674.911	326.375

**BARE EARTH POINT COORDINATES**

Horizontal Datum - NAD83(2011)

UTM Zone 18 North

Vertical Datum - NAVD 88

Geoid - GEOID12A

Units – Meters

POINT_ID	Northing	Easting	Elevation
BE01	4851369.948	621623.346	149.119
BE02	4856148.746	626758.784	51.383
BE03	4870550.337	624630.968	57.082
BE04	4882594.209	605937.228	334.089
BE05	4891535.081	613080.320	364.266
BE05	4891535.081	613080.328	364.173
BE06	4887488.820	625518.280	79.841
BE07	4900674.474	619763.882	119.336
BE08	4907542.414	630843.244	54.310
BE09	4919361.141	628207.256	39.539
BE10	4926665.122	620284.447	150.887
BE11	4921898.184	606056.242	164.754
BE12	4921170.938	587462.349	513.285
BE13	4940052.353	594947.204	353.311
BE14	4933154.141	599201.625	363.103
BE15	4940672.026	623667.197	40.077
BE16	4951089.041	627961.201	43.962
BE17	4951224.301	616738.805	117.906
BE18	4953195.723	601047.214	470.202
BE19	4953668.610	586229.396	521.555
BE20	4975863.948	577657.342	326.823
BE21	4971616.856	591483.580	293.798
BE22	4984257.533	610186.956	96.391
BE23	4963566.814	610505.455	301.655
BE24	4968898.364	630306.216	32.453
BE25	4977786.137	623086.948	62.731

**FORESTED POINT COORDINATES**

Horizontal Datum - NAD83(2011)
UTM Zone 18 North
Vertical Datum - NAVD 88
Geoid - GEOID12A
Units – Meters

POINT_ID	Northing	Easting	Elevation
FO01	4851405.113	621625.757	147.693
FO02	4858881.906	611916.315	288.518
FO03	4870546.416	624692.338	56.739
FO04	4876689.887	611831.647	360.915
FO05	4879808.247	619415.402	236.240
FO06	4887569.189	625620.901	71.940
FO07	4895089.159	625167.095	84.766
FO08	4886674.816	612612.730	330.994
FO09	4891541.953	613057.830	363.676
FO10	4882639.535	605964.466	336.177
FO11	4886227.721	602528.178	466.645
FO12	4889346.509	598560.630	387.742
FO13	4896632.033	601116.250	511.570
FO14	4900819.715	619531.987	134.282
FO15	4902971.227	632391.042	34.600
FO16	4907564.273	630863.184	53.391
FO17	4909034.560	621026.181	118.891
FO18	4903326.048	614403.148	197.350
FO19	4905941.985	602719.216	486.288
FO20	4910221.590	599208.523	273.876
FO21	4921074.926	587496.475	513.445
FO22	4921867.543	606019.025	163.317
FO23	4917604.669	619413.567	271.833
FO24	4919448.422	628217.108	40.892
FO25	4926683.891	620391.540	148.646
FO26	4928841.164	612356.007	124.904
FO27	4933143.179	599231.059	363.209
FO28	4930183.094	590374.479	429.193
FO29	4935982.814	584012.368	364.248
FO30	4938369.310	589236.152	345.178
FO31	4939881.520	594820.946	337.206



FO32	4953727.165	586197.862	519.830
FO33	4975872.834	577898.333	325.673
FO34	4979652.917	600071.440	198.573
FO35	4966439.758	596202.534	397.962
FO36	4963554.445	610576.602	297.729
FO37	4984298.883	610242.660	96.714
FO38	4977783.637	623017.386	63.454
FO39	4951172.024	616739.806	117.748
FO40	4950150.466	606651.687	233.071

**TALL WEEDS POINT COORDINATES**

Horizontal Datum - NAD83(2011)
UTM Zone 18 North
Vertical Datum - NAVD 88
Geoid - GEOID12A
Units – Meters

POINT_ID	Northing	Easting	Elevation
TW01	4852541.758	622257.973	132.137
TW02	4870566.187	624674.463	56.438
TW03	4900686.617	619688.549	118.856
TW04	4919279.732	628223.071	41.173
TW05	4926718.145	620349.873	150.325
TW06	4921129.082	587462.689	513.048
TW07	4940067.270	595135.235	346.460
TW08	4953702.880	586171.235	520.158
TW09	4953278.128	601251.403	469.219
TW10	4951223.237	616808.189	118.161
TW11	4951077.835	627785.803	46.044
TW12	4963025.100	623879.540	49.162
TW13	4963746.577	610434.667	296.650
TW14	4975895.906	577852.403	325.128
TW15	4984266.970	610251.325	96.263
TW16	4977803.040	623113.729	62.696
TW17	4972485.286	614644.850	107.355
TW18	4979686.685	599945.512	200.316
TW19	4966449.273	596281.362	397.126
TW20	4947324.445	595544.098	435.979

**TALL WEEDS POINT COORDINATES**

Horizontal Datum - NAD83(2011)
UTM Zone 18 North
Vertical Datum - NAVD 88
Geoid - GEOID12A
Units – Meters

POINT_ID	Northing	Easting	Elevation
SW01	4923571.008	599996.403	290.540
SW02	4921863.482	605748.191	166.618
SW03	4906076.138	602377.185	475.147
SW04	4896670.204	600956.462	505.938
SW05	4890978.417	613072.176	341.721
SW06	4886737.899	612713.217	318.019
SW07	4982789.142	585711.068	313.873
SW08	4858806.323	611939.839	287.895
SW09	4900625.909	619669.521	114.423
SW10	4928657.349	612178.992	114.381
SW11	4937181.719	623017.609	30.127
SW12	4930178.479	590575.337	424.833
SW13	4938300.879	589280.679	343.406
SW14	4936178.645	584210.018	356.455
SW15	4949906.097	606363.823	222.219
SW16	4951318.902	616724.262	117.452
SW17	4956765.625	621030.009	42.301
SW18	4963553.818	610580.739	297.767
SW19	4977815.517	623162.566	61.711
SW20	4882477.714	606118.406	320.070



CALIBRATION POINT DATA SHEETS



Point ID	LC01
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Graphite

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4858876.207	611951.954	289.674

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5108461884
Antenna Height	2.0 M

Static Session	18843193
Date (MM-DD-YYYY)	11-15-2014
Start Time (UTC)	18:23
End Time (UTC)	19:45

Point Ties: BE01 - BE03 - NYET - NYIL - NYRB - SW08 - TW01 - VTRU - VTUV

RMSE Hz: 0.008

RMSE Z: 0.016

PHOTOS:





Point ID	LC02
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Ticonderoga

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4851298.345	621615.759	149.617

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5108461884
Antenna Height	2.0 M

Static Session	18843192
Date (MM-DD-YYYY)	11-15-2014
Start Time (UTC)	16:56
End Time (UTC)	17:58

Point Ties: BE01 - BE03 - LC03 - NYET - NYIL - NYRB - TW01 - VTRU - VTUV

RMSE Hz: 0.008

RMSE Z: 0.016

PHOTOS:





Point ID	LC03
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Ticonderoga

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4856066.215	627007.539	55.202

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5328439860
Antenna Height	2.00 M

Static Session	98603192
Date (MM-DD-YYYY)	11-15-2014
Start Time (UTC)	16:22
End Time (UTC)	17:28

Point Ties: BE01 - BE02 - BE03 - LC02 - NYET - NYIL - NYRB - VTRU - VTUV

RMSE Hz: 0.008

RMSE Z: 0.016

PHOTOS:





Point ID	LC04
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Crown Point

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4870560.096	624623.386	57.275

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5328439860
Antenna Height	2.00 M

Static Session	98603191
Date (MM-DD-YYYY)	11-15-2014
Start Time (UTC)	14:31
End Time (UTC)	15:30

Point Ties: BE01 - BE02 - BE03 - NYET - NYIL - NYRB - VTRU - VTUV

RMSE Hz: 0.008

RMSE Z: 0.015

PHOTOS:





Point ID	LC05
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Witherbee

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4879807.969	619328.060	240.272

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843171
Date (MM-DD-YYYY)	11-13-2014
Start Time (UTC)	16:30
End Time (UTC)	16:50

Point Ties: FO05TP - NYET - NYIL - NYRB - VTRU - VTUV

RMSE Hz: 0.009

RMSE Z: 0.015

PHOTOS:





Point ID	LC06
Project No.	23902
Project Name	TO #52 NY Clinton Essex-Lake Champlain
State	New York
County	Essex
Quad	Witherbee

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4876681.274	611811.768	361.681

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model 3
Receiver S/N	5108461884
Antenna Height	2.0 M

Static Session	18843420
Date (MM-DD-YYYY)	12/08/2014
Start Time (UTC)	15:31
End Time (UTC)	19:25

Point Ties: FO04BS - FO13BS - LC14 - NYIL - NYRB - VTRU - VTUV

RMSE Hz: 0.008

RMSE Z: 0.015

PHOTOS:





Point ID	LC07
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Underwood

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4882626.292	605927.960	336.025

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 4
Receiver S/N	5407453971
Antenna Height	2.00 M

Static Session	39713201
Date (MM-DD-YYYY)	11-16-2014
Start Time (UTC)	13:49
End Time (UTC)	15:22

Point Ties: FO04BS - FO13BS - LC14 - NYET - NYIL - NYRB - SW20 - VTRU - VTUV

RMSE Hz: 0.007

RMSE Z: 0.014

PHOTOS:





Point ID	LC08
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Underwood

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4885363.996	603244.789	408.566

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5046455718
Antenna Height	2.0 M

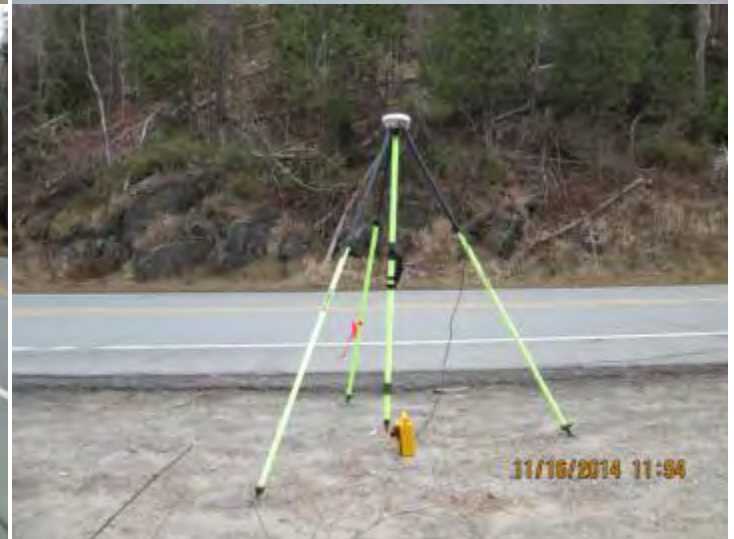
Static Session	57183202
Date (MM-DD-YYYY)	11-16-2014
Start Time (UTC)	15:51
End Time (UTC)	17:00

Point Ties: BE04 - FO11BS - NYET - VTRU

RMSE Hz: 0.011

RMSE Z: 0.016

PHOTOS:





Point ID	LC09
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Keene Valley

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4889317.782	598548.029	387.007

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5046455718
Antenna Height	2.0 M

Static Session	57183203
Date (MM-DD-YYYY)	11-16-2014
Start Time (UTC)	17:10
End Time (UTC)	18:30

Point Ties: FO11BS - FO12BS - FO13BS - LC14 - NYET - NYIL - NYRB

RMSE Hz: 0.008

RMSE Z: 0.014

PHOTOS:





Point ID	LC10
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Rocky Peak Ridge

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4896611.317	601097.703	509.343

Operator	SAM / RLI
Receiver Model	TRIMBLE R8 - MODEL 4 / TRIMBLE R8 - MODEL 3
Receiver S/N	5328439860 / 5108461884
Antenna Height	2.00 M

Static Session	98603168 / 18843214
Date (MM-DD-YYYY)	11-12-2014 / 11-17-2014
Start Time (UTC)	21:08 / 19:04
End Time (UTC)	22:00 / 19:20

Point Ties: FO13BS - FO18TP - LC14 - NYET - NYIL - NYML - NYPB - NYRB - SW04 - VTUV

RMSE Hz: 0.006

RMSE Z: 0.013

PHOTOS:





Point ID	LC11
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Elizabethtown

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4891534.163	613090.862	364.381

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843210
Date (MM-DD-YYYY)	11-17-2014
Start Time (UTC)	12:34
End Time (UTC)	14:23

Point Ties: BE05 - FO13BS - LC14 - NYET - NYIL - NYPB - NYRB - VTSA - VTUV

RMSE Hz: 0.007

RMSE Z: 0.014

PHOTOS:





Point ID	LC12
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Elizabethtown

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4886778.414	612641.501	342.316

Operator	Steve Miller
Receiver Model	Trimble R8 - Model 3
Receiver S/N	5108465718
Antenna Height	2.000 Meters

Static Session	57183204
Date (MM-DD-YYYY)	11-16-2014
Start Time (UTC)	18:51
End Time (UTC)	20:14

Point Ties: FO12BS - FO13BS - LC12 – SW06 - NYET - NYIL - NYRB - VTRU - VTUV

RMSE Hz: 0.006

RMSE Z: 0.017

PHOTOS:





Point ID	LC12
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Elizabethtown

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4886778.414	612641.501	342.316

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5046455718
Antenna Height	2.00 M

Static Session	57183204
Date (MM-DD-YYYY)	11-16-2014
Start Time (UTC)	18:51
End Time (UTC)	20:14

Point Ties: FO12BS - FO13BS - LC14 - NYET - NYIL - NYRB - SW06 - VTRU - VTUV

RMSE Hz: 0.007

RMSE Z: 0.015

PHOTOS:





Point ID	LC14
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Westport

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4895029.120	625228.438	77.926

Operator	RLI / SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5046455718 / 5108461884
Antenna Height	2.00 M

Static Session	57183160 / 57183171 18843200 / 57183210
Date (YYYY-MM-DD)	2014-11-12 / 13 / 16 / 17
Start Time (UTC)	12:54 / 12:53 / 12:02 / 12:00
End Time (UTC)	21:54 / 14:04 / 21:15 / 19:52

Point Ties: BE05 - BE06 - BE07 - BE08 - LC06 - LC07 - LC09 - LC10 - LC11 - LC12 - LC15 - LC16 - LC17 - LC18
- LC19 - LC20 - NYET - NYIL - NYML - NYPB - NYPD - NYRB - SW03 - SW04 - SW06 - SW09 - SW20 - TW03 -
VTRU - VTSA - VTUV

RMSE Hz: 0.004

RMSE Z: 0.015

PHOTOS:





Point ID	LC15
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Charlotte

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4903050.306	632269.461	35.263

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 4
Receiver S/N	5328439860
Antenna Height	2.00 M

Static Session	98603160
Date (MM-DD-YYYY)	11-12-14
Start Time (UTC)	12:56
End Time (UTC)	14:19

Point Ties: FO07TP - FO15TP - BE10 - LC14 - NYET - NYIL - NYML - NYPB - NYRB - VTUV

RMSE Hz: 0.007

RMSE Z: 0.017

PHOTOS:





Point ID	LC16
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Elizabethtown

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4900804.711	619566.473	134.149

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 4
Receiver S/N	5328439860
Antenna Height	2.00 M

Static Session	98603165
Date (MM-DD-YYYY)	11-12-2014
Start Time (UTC)	17:18
End Time (UTC)	18:45

Point Ties: FO17TP - LC14 - NYET - NYIL - NYML - NYPB - NYRB - TW03 - VTUV

RMSE Hz: 0.007

RMSE Z: 0.015

PHOTOS:





Point ID	LC17
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Lewis

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4903433.330	614474.749	200.302

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 4
Receiver S/N	5328439860
Antenna Height	2.00 M

Static Session	98603167
Date (MM-DD-YYYY)	11-12-2014
Start Time (UTC)	19:46
End Time (UTC)	20:47

Point Ties: BE07 - FO18TP - LC14 - NYET - NYRB - VTUV

RMSE Hz: 0.008

RMSE Z: 0.016

PHOTOS:





Point ID	LC18
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Keene

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4910336.171	599347.592	257.371

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843211
Date (MM-DD-YYYY)	11-17-2014
Start Time (UTC)	14:04
End Time (UTC)	15:32

Point Ties: BE05 - FO13BS - FO20TP - LC14 - NYET - NYIL - NYML - NYPB - NYPD - NYRB - VTSA - VTUV

RMSE Hz: 0.006

RMSE Z: 0.014

PHOTOS:





Point ID	LC19
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Jay Mountain

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4905980.241	602689.678	482.064

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843212
Date (MM-DD-YYYY)	11-17-2014
Start Time (UTC)	15:50
End Time (UTC)	17:01

Point Ties: FO13BS - FO20TP - LC14 - NYET - NYIL - NYPB - NYPD - NYRB - SW03 - VTSA

RMSE Hz: 0.007

RMSE Z: 0.014

PHOTOS:





Point ID	LC20
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	ESSEX
Quad	Charlotte

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4907507.991	630853.499	53.575

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843162
Date (MM-DD-YYYY)	11-12-2014
Start Time (UTC)	15:21
End Time (UTC)	16:23

Point Ties: BE08 - BE10 - LC14 - LC21 - NYET - NYIL

RMSE Hz: 0.008

RMSE Z: 0.018

PHOTOS:





Point ID	LC21
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Willsboro

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4909016.518	621285.350	109.834

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 4
Receiver S/N	5328439860
Antenna Height	2.00 M

Static Session	98603161
Date (MM-DD-YYYY)	11-12-14
Start Time (UTC)	15:52
End Time (UTC)	16:58

Point Ties: BE10 - FO17TP - LC20 - NYET - NYIL - NYML - NYPB - NYRB - VTUV

RMSE Hz: 0.007
RMSE Z: 0.016

PHOTOS:





Point ID	LC22
Project No.	23902
Project Name	TO #52 NY Clinton Essex-Lake Champlain
State	New York
County	Essex
Quad	Port Douglass

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4918589.755	629049.443	46.608

Operator	Kevin Chapman
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5046455718
Antenna Height	2.00 M

Static Session	57183401
Date (MM-DD-YYYY)	12-06-2014
Start Time (UTC)	18:38
End Time (UTC)	19:09

Point Ties: LC25 - FO23TP - NYET - NYPB - NYRB - VTSA - VTUV

RMSE Hz: 0.008

RMSE Z: 0.018

PHOTOS:





Point ID	LC23
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Clintonville

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4917757.366	619405.406	269.413

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 4
Receiver S/N	5407453971
Antenna Height	2.00 M

Static Session	39713153
Date (MM-DD-YYYY)	11-11-2014
Start Time (UTC)	15:01
End Time (UTC)	16:33

Point Ties: BE10 - BE17 - FO23TP - NYET - NYPB - NYPD - NYRB - SW02 - VTUV

RMSE Hz: 0.007
RMSE Z: 0.016

PHOTOS:





Point ID	LC24
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Port Douglass

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4926607.598	620300.825	150.389

Operator	S Miller
Receiver Model	TRIMBLE R8 - MODEL 4
Receiver S/N	5328439860
Antenna Height	2.00 M

Static Session	98603090
Date (MM-DD-YYYY)	11-05-2014
Start Time (UTC)	12:51
End Time (UTC)	13:51

Point Ties: BE10 - BE12 - LC28 - NYET - NYML - NYRB - VTUV

RMSE Hz: 0.007

RMSE Z: 0.017

PHOTOS:





Point ID	LC25
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Peru

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4928822.730	612329.691	124.116

Operator	ZEKE INGRAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5136472526
Antenna Height	2.00 M

Static Session	25263401
Date (MM-DD-YYY)	12-06-2014
Start Time (UTC)	17:15
End Time (UTC)	19:01

Point Ties: FO23TP - HDF5 - LC22 - LC35 - NYET - NYIL - NYRB

RMSE Hz: 0.008

RMSE Z: 0.017

PHOTOS:





Point ID	LC26
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Au Sable Forks

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4921934.241	606163.095	164.551

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5046455718
Antenna Height	2.00 M

Static Session	57183092
Date (MM-DD-YYYY)	11-05-2014
Start Time (UTC)	15:12
End Time (UTC)	16:38

Point Ties: BE10 - BE11 - LC27 - NYET - NYML - NYPB - NYRB - TW05 - VTUV

RMSE Hz: 0.007

RMSE Z: 0.015

PHOTOS:





Point ID	LC27
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Au Sable Forks

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4923543.623	600178.131	299.437

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843093
Date (MM-DD-YYYY)	11-05-2014
Start Time (UTC)	13:50
End Time (UTC)	17:32

Point Ties: BE10 - BE11 - FO26BS - FO26TP - FO28TP - FO29TP - LC26 - LC28 - LC29 - NYET - NYML - NYPB
- NYRB - TW05 - VTUV

RMSE Hz: 0.006

RMSE Z: 0.014

PHOTOS:





Point ID	LC28
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Franklin Falls

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4921189.377	587456.979	513.150

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5046455718
Antenna Height	2.00 M

Static Session	571813091
Date (MM-DD-YYYY)	11-05-2014
Start Time (UTC)	12:38
End Time (UTC)	13:21

Point Ties: BE10 - BE12 - LC24 - LC27 - NYET - NYML - NYPB - NYRB - TW06

RMSE Hz: 0.006

RMSE Z: 0.013

PHOTOS:





Point ID	LC29
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Redford

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4930113.618	590668.589	426.922

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5046455718
Antenna Height	2.00 M

Static Session	57183094
Date (MM-DD-YYYY)	11-05-2014
Start Time (UTC)	19:04
End Time (UTC)	20:41

Point Ties: BE10 - FO26BS - FO28TP - LC27 - NYET - NYML - NYPB - NYRB

RMSE Hz: 0.007

RMSE Z: 0.015

PHOTOS:





Point ID	LC30
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Alder Brook

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4936079.952	584120.406	364.361

Operator	ZEKE INGRAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5136472526
Antenna Height	2.00 M

Static Session	25263400
Date (MM-DD-YYYY)	12-06-2014
Start Time (UTC)	15:25
End Time (UTC)	16:24

Point Ties: HDF5 - LC33 - LC35 - NYET - NYIL - NYPB - NYRB - VTSA - VTUV

RMSE Hz: 0.007

RMSE Z: 0.014

PHOTOS:





Point ID	LC31
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Alder Brook

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4938320.153	589266.618	345.027

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843101
Date (MM-DD-YYYY)	11-05-2014
Start Time (UTC)	14:43
End Time (UTC)	15:58

Point Ties: BE17 - NYET - NYML - NYPB - NYPD - NYRB - SW13 - SW14 - VTSA - VTUV

RMSE Hz: 0.007

RMSE Z: 0.015

PHOTOS:





Point ID	LC32
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Redford

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4940045.551	594961.369	353.417

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843102
Date (MM-DD-YYYY)	11-05-2014
Start Time (UTC)	16:13
End Time (UTC)	17:10

Point Ties: BE13 - BE17 - LC30 - LC35 - LC40 - NYET - NYML - NYPB - NYPD - NYRB - SW13 - VTRU - VTSA - VTUV

RMSE Hz: 0.006

RMSE Z: 0.015

PHOTOS:





Point ID	LC33
Project No.	23902
Project Name	TO #52 NY Clinton Essex-Lake Champlain
State	New York
County	Clinton
Quad	Peasleeville

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4939201.882	605153.035	216.506

Operator	Kevin Chapman
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5046455718
Antenna Height	2.00 M

Static Session	57183400
Date (MM-DD-YYYY)	12/06/2014
Start Time (UTC)	15:19
End Time (UTC)	17:09

Point Ties: LC30 - LC35 - LC40 - NYET - NYML - NYPB - NYRB - VTRU - VTSA - VTUV

RMSE Hz: 0.007

RMSE Z: 0.017

PHOTOS:





Point ID	LC34
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Peru

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4939993.068	612211.950	170.255

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843105
Date (MM-DD-YYYY)	11-05-2014
Start Time (UTC)	19:32
End Time (UTC)	20:56

Point Ties: BE17 - LC33BL - LC40BL - NYET - NYML - NYPB - NYPD - NYRB - VTSA - VTUV

RMSE Hz: 0.007

RMSE Z: 0.017

PHOTOS:





Point ID	LC35
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Redford

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4933155.749	599203.240	363.057

Operator	ZEKE INGRAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5133460976
Antenna Height	2.00 M

Static Session	09763400
Date (MM-DD-YYYY)	12-06-2014
Start Time (UTC)	15:51
End Time (UTC)	17:47

Point Ties: LC33 - LC30 - LC25 - HDF5 - HDF6 - NYET - NYIL - NYML - NYPB - NYRB - VTSA - VTUV

RMSE Hz: 0.006

RMSE Z: 0.016

PHOTOS:





Point ID	LC36
Project No.	23902
Project Name	TO #52 NY Clinton Essex-Lake Champlain
State	New York
County	Clinton
Quad	Keeseville

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4940239.968	623835.867	37.255

Operator	Kevin Chapman
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843401
Date (MM-DD-YYYY)	12-06-2014
Start Time (UTC)	16:35
End Time (UTC)	19:59

Point Ties: BE10 - BE17 - LC37 - NYET - NYIL - NYML - NYPB - NYPD - NYRB - VTUV

RMSE Hz: 0.007

RMSE Z: 0.018

PHOTOS:





Point ID	LC37
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Keeseville

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4937116.051	623083.548	39.478

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843215
Date (MM-DD-YYYY)	11-17-2014
Start Time (UTC)	20:28
End Time (UTC)	21:42

Point Ties: BE17 - BE10 - LC36 - NYET - NYIL - NYML - NYPB - NYPD - NYRB - VTUV

RMSE Hz: 0.007

RMSE Z: 0.018

PHOTOS:





Point ID	LC38
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Plattsburgh

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4951101.557	627906.633	46.268

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 4
Receiver S/N	5328439860
Antenna Height	2.00 M

Static Session	98603142
Date (MM-DD-YYYY)	10-11-2014
Start Time (UTC)	14:55
End Time (UTC)	16:05

Point Ties: BE16 - BE17 - LC54 - NYET - NYML - NYPB - NYPD - NYRB - SW17 - VTSA - VTUV

RMSE Hz: 0.006

RMSE Z: 0.019

PHOTOS:





Point ID	LC39
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Morrisonville

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4951217.860	616705.140	118.517

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843146
Date (MM-DD-YYYY)	11-10-2014
Start Time (UTC)	18:40
End Time (UTC)	19:00

Point Ties: BE10 - BE17 - LC54 - NYET - NYML - NYPB - NYPD - NYRB - VTSA - VTUV

RMSE Hz: 0.007

RMSE Z: 0.019

PHOTOS:





Point ID	LC40
Project No.	23902
Project Name	TO #52 NY Clinton Essex-Lake Champlain
State	New York
County	Clinton
Quad	Dannemora

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4950106.201	606742.318	233.039

Operator	Kevin Chapman
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843400
Date (MM-DD-YYYY)	12-06-2014
Start Time (UTC)	14:50
End Time (UTC)	15:50

Point Ties: LC33 - NYET - NYIL - NYML - NYPB - NYRB - VTSA - VTUV

RMSE Hz: 0.007

RMSE Z: 0.019

PHOTOS:





Point ID	LC41
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Dannemora

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4953179.915	601069.186	467.509

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843111
Date (MM-DD-YYYY)	11-05-2014
Start Time (UTC)	14:34
End Time (UTC)	15:50

Point Ties: BE17 - FO29TP - NYET - NYML - NYPB - NYPD - NYRB - TW09 - TW20 - VTSA - VTUV

RMSE Hz: 0.006

RMSE Z: 0.017

PHOTOS:





Point ID	LC42
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Moffitsville

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4947345.727	595548.918	437.640

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843110
Date (MM-DD-YYYY)	11-05-2014
Start Time (UTC)	13:10
End Time (UTC)	

Point Ties: BE17 - FO29TP - NYET - NYML - NYPB - NYPD - NYRB - TW20 - VTSA - VTUV

RMSE Hz: 0.006

RMSE Z: 0.017

PHOTOS:





Point ID	LC43
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Lyon Mountain

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4953722.978	586360.834	520.206

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 4
Receiver S/N	5328439860
Antenna Height	2.00 M

Static Session	98603113
Date (MM-DD-YYYY)	07-11-2014
Start Time (UTC)	16:36
End Time (UTC)	17:56

Point Ties: BE19 - BE18 - BE17 - FO29TP - NYET - NYML - NYPB - NYPD - NYRB - VTSA - VTUV

RMSE Hz: 0.006

RMSE Z: 0.016

PHOTOS:





Point ID	LC44
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Ellenburg Center

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4960180.131	579929.003	405.120

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 4
Receiver S/N	5328439860
Antenna Height	2.00 M

Static Session	98603115
Date (MM-DD-YYYY)	07-11-2014
Start Time (UTC)	19:36
End Time (UTC)	20:21

Point Ties: BE21 - FO29TP - NYET - NYML - NYPB - NYPD - NYRB - VTSA - VTUV

RMSE Hz: 0.007

RMSE Z: 0.017

PHOTOS:





Point ID	LC45
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Ellenburg Center

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4963012.587	587094.783	472.604

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 4
Receiver S/N	5328439860
Antenna Height	2.00 M

Static Session	98603120
Date (MM-DD-YYYY)	08-11-2014
Start Time (UTC)	12:54
End Time (UTC)	14:15

Point Ties: BE21 - BE21 - LC54 - LC56 - LC58 - NYET - NYML - NYPB - VTSA

RMSE Hz: 0.007

RMSE Z: 0.018

PHOTOS:





Point ID	LC46
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Ellenburg Mountain

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4966461.031	596325.232	397.454

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 4
Receiver S/N	5328439860
Antenna Height	2.00 M

Static Session	98603125
Date (MM-DD-YYYY)	08-11-2014
Start Time (UTC)	18:52
End Time (UTC)	20:12

Point Ties: BE21 - LC54 - LC55 - NYET - NYML - NYPB - NYPD - NYRB - PMTL - TW19 - VTSA

RMSE Hz: 0.006

RMSE Z: 0.019

PHOTOS:





Point ID	LC47
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	West Chazy

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4963564.354	610545.537	300.501

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843135 / 18843140
Date (MM-DD-YYYY)	11-09-2014 / 11-09-2014
Start Time (UTC)	21:01 / 12:17
End Time (UTC)	21:31 / 12:46

Point Ties: BE17 - BE23 - LC49 - LC54 - NYET - NYML - NYPB - NYPD - NYRB - PMTL - VTSA - VTUV

RMSE Hz: 0.006

RMSE Z: 0.019

PHOTOS:





Point ID	LC48
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Beekmantown

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4956556.211	621089.688	44.855

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 4
Receiver S/N	5328439860
Antenna Height	2.00 M

Static Session	98603141
Date (MM-DD-YYYY)	10-11-2014
Start Time (UTC)	12:33
End Time (UTC)	14:39

Point Ties: BE17 - NYET - NYML - NYPB - NYPD - NYRB - SW17 - TW13 - VTSA - VTUV

RMSE Hz: 0.007

RMSE Z: 0.020

PHOTOS:





Point ID	LC49
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Beekmantown

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4963255.864	623917.280	47.282

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 4
Receiver S/N	5407453971
Antenna Height	2.00 M

Static Session	39713137
Date (MM-DD-YYYY)	09-11-2014
Start Time (UTC)	20:23
End Time (UTC)	21:31

Point Ties: BE17 - LC47 - LC54 - NYET - NYML - NYPB - NYPD - NYRB - PMTL - TW12 - VTSA

RMSE Hz: 0.006

RMSE Z: 0.021

PHOTOS:





Point ID	LC50
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	North Hero

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4968887.174	630304.300	32.882

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 4
Receiver S/N	5407453971
Antenna Height	2.00 M

Static Session	39713132
Date (MM-DD-YYYY)	09-11-2014
Start Time (UTC)	13:42
End Time (UTC)	15:05

Point Ties: BE17 - BE22 - LC51 - LC54 - NYML - NYPB - NYPD - NYRB - PMTL - VTSA

RMSE Hz: 0.006

RMSE Z: 0.022

PHOTOS:





Point ID	LC51
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Champlain

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4977873.446	623089.618	63.694

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843131
Date (MM-DD-YYYY)	11-07-2014
Start Time (UTC)	14:35
End Time (UTC)	16:31

Point Ties: BE17 - BE24 - LC50 - LC54 - NYML - NYPB - NYPD - NYRB - PMTL - TW16 - VTSA

RMSE Hz: 0.006

RMSE Z: 0.022

PHOTOS:





Point ID	LC52
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Moore's

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4972448.605	614484.584	114.931

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843133
Date (MM-DD-YYYY)	11-09-2014
Start Time (UTC)	17:46
End Time (UTC)	19:02

Point Ties: LC54 - NYET - NYML - NYPB - NYPD - NYRB - PMTL - SW19 - VTSA

RMSE Hz: 0.007

RMSE Z: 0.021

PHOTOS:





Point ID	LC53
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Altona

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4971623.874	606121.629	188.604

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 4
Receiver S/N	5328439860
Antenna Height	2.00 M

Static Session	98603126
Date (MM-DD-YYYY)	08-11-2014
Start Time (UTC)	20:30
End Time (UTC)	21:20

Point Ties: BE21 - NYET - NYML - NYPB - NYPD - NYRB - TW19 - VTSA

RMSE Hz: 0.007

RMSE Z: 0.020

PHOTOS:





Point ID	LC54
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Moore's Station

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4984270.956	610200.465	97.200

Operator	SAM / RLI
Receiver Model	TRIMBLE R8 - MODEL 4 / TRIMBLE R8 - MODEL 3
Receiver S/N	5407453971 / 5046455718
Antenna Height	2.00 M

Static Session	39713120 / 57183130 / 39713140
Date (YYYY-MM-DD)	2014-11-8 / 9 / 10
Start Time (UTC)	12:13 / 12:29 / 11:55
End Time (UTC)	19:26 / 22:00 / 19:04

Point Ties: BE10 - BE16 - BE17 - BE20 - BE21 - BE22 - BE23 - BE24 - BE25 - LC38 - LC39 - LC45 - LC46 - LC47 - LC49 - LC50 - LC51 - LC52 - LC55 - LC56 - LC58 - NYET - NYML - NYPB - NYPD - NYRB - PMTL - SW07 - SW16 - SW17 - SW19 - TW10 - TW11 - TW12 - TW13 - TW14 - TW15 - TW16 - TW18 - VTSA - VTUV

RMSE Hz: 0.003

RMSE Z: 0.021

PHOTOS:





Point ID	LC55
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	East of Cannon Corners Stations

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4979676.825	600088.316	198.655

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843124
Date (MM-DD-YYYY)	11-08-2014
Start Time (UTC)	18:13
End Time (UTC)	19:22

Point Ties: BE21 - LC46 - LC54 - NYET - NYML - NYPB - NYPD - NYRB - PMTL - TW18 - VTSA

RMSE Hz: 0.006

RMSE Z: 0.021

PHOTOS:





Point ID	LC56
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Ellenburg Depot

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4971636.436	591435.633	294.443

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

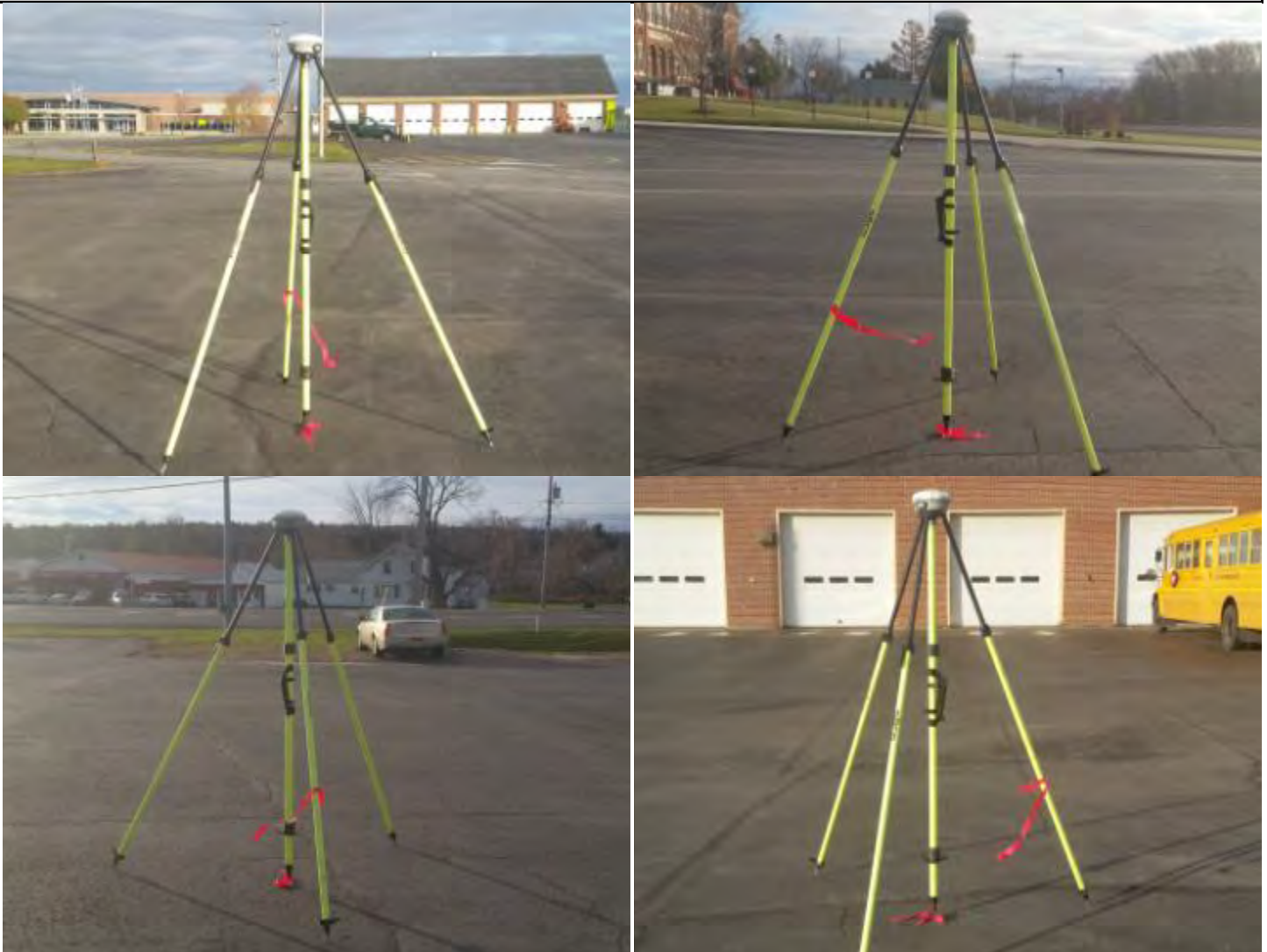
Static Session	18843120
Date (MM-DD-YYYY)	11-07-2014
Start Time (UTC)	12:21
End Time (UTC)	13:24

Point Ties: BE21 - LC45 - LC54 - NYET - NYML - NYPB - NYPD - NYRB - PMTL - VTSA

RMSE Hz: 0.006

RMSE Z: 0.019

PHOTOS:





Point ID	LC57
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Churubusco Station

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4982663.163	585712.857	313.073

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 4
Receiver S/N	5328439860
Antenna Height	2.00 M

Static Session	98603123
Date (MM-DD-YYYY)	08-11-2014
Start Time (UTC)	15:37
End Time (UTC)	16:52

Point Ties: BE20 - BE21 - NYET - NYML - NYPB - NYPD - PMTL - SW07 - VTSA

RMSE Hz: 0.006

RMSE Z: 0.020

PHOTOS:





Point ID	LC58
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Chateaugay

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4975874.631	577674.911	326.375

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843121
Date (MM-DD-YYYY)	11-07-2014
Start Time (UTC)	13:45
End Time (UTC)	14:59

Point Ties: BE21 - LC45 - LC54 - NYET - NYML - NYPB - NYPD - NYRB - PMTL - TW14 - VTSA

RMSE Hz: 0.006

RMSE Z: 0.019

PHOTOS:





BARE EARTH POINT DATA SHEETS



Point ID	BE01
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Ticonderoga

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4851369.948	621623.346	149.118

Operator	SAM
Receiver Model	TRIMBLE R8- MODEL 3
Receiver S/N	5046455178
Antenna Height	2.00 M

Static Session	57183191
Date (MM-DD-YYYY)	11-15-2014
Start Time (UTC)	14:32
End Time (UTC)	21:00

Point Ties: BE02 - BE03 - LC01 - LC02 - LC03 - LC04 - NYET - NYIL - NYRB - SW08 - TW01 - VTRU - VTUV

RMSE Hz: 0.007

RMSE Z: 0.016

PHOTOS:





Point ID	BE02
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Ticonderoga

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4856148.753	626758.787	51.376

Operator	SAM
Receiver Model	TRIMBLE R8- MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843191
Date (MM-DD-YYYY)	11-15-2014
Start Time (UTC)	14:59
End Time (UTC)	16:39

Point Ties: BE01 - BE03 - LC03 - LC04 - NYET - NYIL - NYRB - VTRU - VTUV

RMSE Hz: 0.008

RMSE Z: 0.016

PHOTOS:





Point ID	BE03
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Crown Point

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4870550.338	624630.968	57.082

Operator	RLI
Receiver Model	TRIMBLE R8- MODEL 3
Receiver S/N	5108461884 / 5407453971
Antenna Height	2.00 M

Static Session	18843172 / 39713190
Date (MM-DD-YYYY)	11-13-2014 / 11-15-2014
Start Time (UTC)	17:37 / 13:31
End Time (UTC)	18:24 / 21:27

Point Ties: BE01 - BE02 - LC01 - LC02 - LC03 - LC04 - NYET - NYIL - NYRB -
SW08 - TW01 - TW02 - VTRU - VTUV

RMSE Hz: 0.006
RMSE Z: 0.015

PHOTOS:





Point ID	BE04
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Underwood

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4882594.209	605937.228	334.087

Operator	RLI
Receiver Model	TRIMBLE R8- MODEL 4
Receiver S/N	5407453971
Antenna Height	2.00 M

Static Session	139713202
Date (MM-DD-YYYY)	11-16-2014
Start Time (UTC)	15:24
End Time (UTC)	16:30

Point Ties: LC08 - NYET - SW20 - VTUV

RMSE Hz: 0.010

RMSE Z: 0.015

PHOTOS:





Point ID	BE05
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Elizabethtown

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4891535.080	613080.328	364.172

Operator	RLI
Receiver Model	TRIMBLE R8- MODEL 4
Receiver S/N	5407453971
Antenna Height	2.00 M

Static Session	39713206 / 39713210
Date (MM-DD-YYYY)	11-16-2014 / 11-17-2014
Start Time (UTC)	21:19 / 12:35
End Time (UTC)	22:00 / 14:34

Point Ties: LC11 - LC14 - LC18 - NYET - NYIL - NYPD - NYRB - VTSA - VTUV

RMSE Hz: 0.006

RMSE Z: 0.014

PHOTOS:





Point ID	BE06
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Westport

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4887488.820	625518.280	79.840

Operator	RLI
Receiver Model	TRIMBLE R8- MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843170
Date (MM-DD-YYYY)	11-13-2014
Start Time (UTC)	13:29
End Time (UTC)	16:07

Point Ties: LC13 - LC14 - NYET - NYIL - NYRB - VTRU - VTUV

RMSE Hz: 0.007

RMSE Z: 0.016

PHOTOS:





=Point ID	BE07
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	ESSEX
Quad	Westport

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4900674.473	619763.882	119.336

Operator	RLI
Receiver Model	TRIMBLE R8- MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843165
Date (MM-DD-YYY)	11-12-2014
Start Time (UTC)	19:16
End Time (UTC)	20:16

Point Ties: LC14 - LC17 - NYET - NYML - NYPB - SW09 - VTUV

RMSE Hz: 0.008
RMSE Z: 0.015

PHOTOS:





Point ID	BE08
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Charlotte

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4907542.414	630843.244	54.309

Operator	SAM
Receiver Model	TRIMBLE R8- MODEL 3
Receiver S/N	5328439860
Antenna Height	2.00 M

Static Session	98603161
Date (MM-DD-YYY)	11-12-14
Start Time (UTC)	14:31
End Time (UTC)	15:36

Point Ties: LC14 - LC20 - NYET - NYIL - NYPB - NYRB

RMSE Hz: 0.008

RMSE Z: 0.018

PHOTOS:





Point ID	BE09
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Port Douglass

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4919361.141	628207.256	39.539

Operator	RLI
Receiver Model	TRIMBLE R8- MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843153
Date (MM-DD-YYYY)	11-11-2014
Start Time (UTC)	17:57
End Time (UTC)	18:34

Point Ties: BE10 - BE17 - NYET - NYML - NYPB - NYPD - NYRB - TW04 - VTUV

RMSE Hz: 0.007

RMSE Z: 0.017

PHOTOS:





Point ID	BE10
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Port Douglass

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4926665.122	620284.447	150.887

Operator	S Miller
Receiver Model	TRIMBLE R8- MODEL 4
Receiver S/N	5407453971 / 5328439860
Antenna Height	2.00 M

Static Session	39713090 / 98603144 / 98603150 39713160 / 57183211
Date (MM-DD-YYYY)	2014-11-05 / 10 / 11 / 12 / 17
Start Time (UTC)	12:43 / 18:13 / 11:50 / 1209 / 20:23
End Time (UTC)	22:00 / 21:35 / 22:30 / 2230 / 21:29

Point Ties: BE09 - BE11 - BE12 - BE14 - BE15 - BE17 - LC15 - LC20 - LC21 - LC23 - LC24 - LC26 - LC27 - LC28
- LC29 - LC36 - LC37 - LC39 - LC54 - NYET - NYML - NYPB - NYPD - NYRB - SW01 - SW02 - SW12 - TW04 -
TW05 - TW06 - VTSA - VTUV

RMSE Hz: 0.004

RMSE Z: 0.016

PHOTOS:





=Point ID	BE11
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Au Sable Forks

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4921898.184	606056.242	164.754

Operator	SAM
Receiver Model	TRIMBLE R8- MODEL 3
Receiver S/N	5328439860
Antenna Height	2.00 M

Static Session	98603092
Date (MM-DD-YYY)	05-11-2014
Start Time (UTC)	15:55
End Time (UTC)	17:16

Point Ties: BE10 - LC26 - LC27 - NYET - NYML - NYRB - VTUV

RMSE Hz: 0.007

RMSE Z: 0.016

PHOTOS:





Point ID	BE12
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Franklin Falls

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4921170.938	587462.349	513.285

Operator	RLI
Receiver Model	TRIMBLE R8- MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

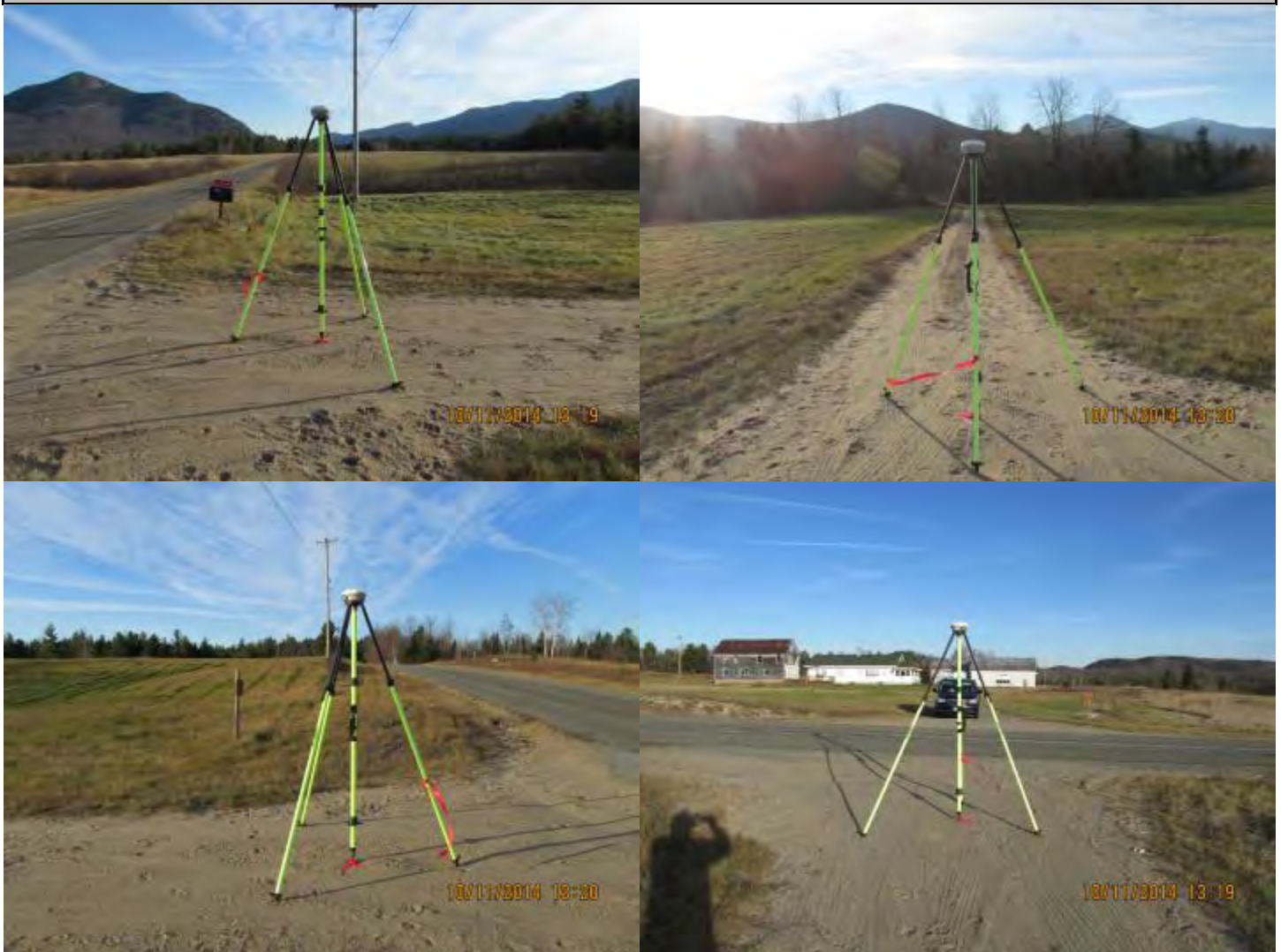
Static Session	18843092
Date (MM-DD-YYY)	11-05-2014
Start Time (UTC)	12:02
End Time (UTC)	12:20

Point Ties: BE10 - LC24 - LC28 - NYET - NYML - NYRB

RMSE Hz: 0.008

RMSE Z: 0.014

PHOTOS:





=Point ID	BE13
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Redford

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4940052.352	594947.204	353.310

Operator	SAM
Receiver Model	TRIMBLE R8- MODEL 3
Receiver S/N	5407453971
Antenna Height	2.00 M

Static Session	39713102
Date (MM-DD-YYY)	06-11-2014
Start Time (UTC)	16:54
End Time (UTC)	17:34

Point Ties: BE17 - LC32 - NYET - NYML - NYPB - NYPD - NYRB - TW07 - VTSA - VTUV

RMSE Hz: 0.006

RMSE Z: 0.015

PHOTOS:





=Point ID	BE14
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Redford

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4933154.140	599201.625	363.103

Operator	SAM
Receiver Model	TRIMBLE R8- MODEL 4
Receiver S/N	5407453971
Antenna Height	2.00 M

Static Session	39713141
Date (MM-DD-YYY)	10-11-14
Start Time (UTC)	2005
End Time (UTC)	2100

Point Ties: BE10 - BE17 - NYET - NYML - NYPB - NYPD - NYRB - VTSA - VTUV

RMSE Hz: 0.007

RMSE Z: 0.015

PHOTOS:





Point ID	BE15
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Keeseville

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4940672.026	623667.197	40.077

Operator	SAM
Receiver Model	R8-4
Receiver S/N	5407453971
Antenna Height	2.00 M

Static Session	39713158
Date (MM-DD-YYYY)	11-11-2014
Start Time (UTC)	21:52
End Time (UTC)	22:13

Point Ties: BE10 - BE17 - NYET - NYPB - VTUV

RMSE Hz: 0.008

RMSE Z: 0.019

PHOTOS:





Point ID	BE16
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Plattsburgh

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4951089.041	627961.201	43.962

Operator	RLI
Receiver Model	TRIMBLE R8- MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843143
Date (MM-DD-YYYY)	11-10-2014
Start Time (UTC)	15:49
End Time (UTC)	16:26

Point Ties: BE17 - LC38 - LC54 - NYET - NYML - NYPB - NYPD - NYRB - TW11 - VTSA - VTUV

RMSE Hz: 0.006

RMSE Z: 0.019

PHOTOS:





Point ID	BE17
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Morrisonville

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4951224.300	616738.805	117.905

Operator	SAM
Receiver Model	TRIMBLE R8- MODEL 4 / TRIMBLE R8- MODEL 3
Receiver S/N	5328439860 / 5407453971 / 5046455718
Antenna Height	2.00 M

Static Session	98603100 / 39713110 / 98603130 / 57183140 / 57183140 / 39713214
Date (YYYY-MM-DD)	2014-11-06 / 07 / 09 / 10 / 11 / 17
Start Time (UTC)	12:21 / 11:58 / 11:55 / 11:48 / 11:33 / 20:59
End Time (UTC)	23:14 / 21:13 / 21:55 / 21:30 / 22:43 / 21:59

Point Ties: BE09 - BE10 - BE13 - BE14 - BE15 - BE16 - BE18 - BE19 - BE21 - BE22 - BE23 - BE24 - BE25 -
LC23 - LC31 - LC32 - LC34 - LC36 - LC37 - LC38 - LC39 - LC41 - LC42 - LC43 - LC47 - LC48 - LC49 - LC50 -
LC51 - LC54 - NYET - NYIL - NYML - NYPB - NYPD - NYRB - SW01 - SW02 - SW12 - SW13 - SW15 - SW16 -
SW17 - TW04 - TW07 - TW08 - TW09 - TW10 - TW13 - TW15 - TW16 - TW20 - VTSA - VTUV

RMSE Hz: 0.003

RMSE Z: 0.018

PHOTOS:





Point ID	BE18
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Dannemora

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4953195.722	601047.214	470.202

Operator	RLI
Receiver Model	TRIMBLE R8- MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843112
Date (MM-DD-YYYY)	11-05-2014
Start Time (UTC)	15:53
End Time (UTC)	17:06

Point Ties: BE17 - FO29TP - LC43 - NYET - NYML - NYPB - NYPD - TW09 - VTSA

RMSE Hz: 0.007
RMSE Z: 0.018

PHOTOS:





Point ID	BE19
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Lyon Mountain

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4953668.610	586229.396	521.555

Operator	RLI
Receiver Model	TRIMBLE R8- MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843113
Date (MM-DD-YYYY)	11-05-2014
Start Time (UTC)	17:41
End Time (UTC)	18:19

Point Ties: BE17 - FO29TP - LC43 - NYET - NYML - NYPB - NYPD - NYRB - TW08 - VTSA - VTUV

RMSE Hz: 0.006

RMSE Z: 0.016

PHOTOS:





Point ID	BE20
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Franklin
Quad	Chateaugay

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4975863.948	577657.342	326.822

Operator	RLI
Receiver Model	TRIMBLE R8- MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	1884312
Date (MM-DD-YYYY)	11-08-2014
Start Time (UTC)	15:04
End Time (UTC)	16:08

Point Ties: BE21 - LC54 - LC57 - NYET - NYPD - NYRB - PMTL - TW14 - VTSA

RMSE Hz: 0.007

RMSE Z: 0.019

PHOTOS:





Point ID	BE21
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Ellenburg Depot

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4971616.855	591483.580	293.798

Operator	RLI
Receiver Model	TRIMBLE R8- MODEL 3
Receiver S/N	5108461884 / 5046455718
Antenna Height	2.00 M

Static Session	18843114 / 57183120
Date (MM-DD-YYYY)	11-05-2014 / 11-06-2014
Start Time (UTC)	18:52 / 12:14
End Time (UTC)	20:22 / 21:32

Point Ties: BE17 - BE20 - LC44 - LC45 - LC46 - LC53 - LC54 - LC55 - LC56 - LC57 - LC58 - NYET - NYML - NYPB - NYPD - NYRB - PMTL - SW07 - TW08 - TW14 - TW18 - TW19 - VTSA - VTUV

RMSE Hz: 0.004

RMSE Z: 0.014

PHOTOS:





Point ID	BE22
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Moore's Station

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4984257.533	610186.957	96.392

Operator	RLI
Receiver Model	TRIMBLE R8- MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843130
Date (MM-DD-YYYY)	11-07-2014
Start Time (UTC)	12:39
End Time (UTC)	14:12

Point Ties: BE17 - LC50 - LC54 - NYET - NYML - NYPB - NYPD - NYRB - PMTL - TW15 - VTSA

RMSE Hz: 0.006

RMSE Z: 0.022

PHOTOS:





Point ID	BE23
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	West Chazy

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4963566.822	610505.446	301.646

Operator	SAM
Receiver Model	TRIMBLE R8- MODEL 4
Receiver S/N	5328439860
Antenna Height	2.00 M

Static Session	98603140
Date (MM-DD-YYYY)	10-11-2014
Start Time (UTC)	12:29
End Time (UTC)	13:16

Point Ties: BE17 - LC47 - LC54 - NYET - NYML - NYPB - NYPD - NYRB - TW13 - VTSA - VTUV

RMSE Hz: 0.006

RMSE Z: 0.019

PHOTOS:





Point ID	BE24
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	North Hero

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4968898.364	630306.216	32.453

Operator	SAM
Receiver Model	TRIMBLE R8- MODEL 4
Receiver S/N	5407453971
Antenna Height	2.00 M

Static Session	39713133
Date (MM-DD-YYYY)	09-11-2014
Start Time (UTC)	15:07
End Time (UTC)	15:37

Point Ties: BE17 - LC51 - LC54 - NYML - NYPB - NYRB - PMTL - VTSA

RMSE Hz: 0.007

RMSE Z: 0.022

PHOTOS:





Point ID	BE25
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Champlain

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4977786.137	623086.948	62.731

Operator	RLI
Receiver Model	TRIMBLE R8- MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843132
Date (MM-DD-YYYY)	11-09-2014
Start Time (UTC)	16:34
End Time (UTC)	17:21

Point Ties: BE17 - LC54 - NYET - NYML - NYPB - NYPD - NYRB - PMTL - TW16 - VTSA

RMSE Hz: 0.006

RMSE Z: 0.017

PHOTOS:





FORESTED POINT DATA SHEETS



Point ID	FO01
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Graphite

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4851405.114	621625.757	147.693

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	LC01
Back Sight PT	SW08
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:



Point ID	FO02
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Graphite

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4858881.906	611916.315	288.518

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	FO08TP
Back Sight PT	LC12
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO03
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Crown Point

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4870546.416	624692.337	56.739

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	TW02
Back Sight PT	BE03
RMSE Hz	0.020
RMSE Z	0.020

PHOTOS:





Point ID	FO04
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Witherbee

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4876689.887	611831.646	360.914

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	LC06
Back Sight PT	FO04BS
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO05
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Witherbee

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4879808.247	619415.402	236.239

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	FO05TP
Back Sight PT	LC05
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO06
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	ESSEX
Quad	WESTPORT

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4887569.189	625620.901	71.94

Operator	STEVE MILLER
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	03-23-2015
Occupy PT	BE06
Back Sight PT	LC13
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO07
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Westport

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4895089.158	625167.095	84.766

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	FO07TP
Back Sight PT	LC14
RMSE Hz	0.010
RMSE Z	0.030

PHOTOS:





Point ID	FO08
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Elizabethtown

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4886674.816	612612.730	330.994

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	FO08TP
Back Sight PT	LC12
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO09
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Elizabethtown

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4891541.953	613057.83	363.676

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	BE05
Back Sight PT	FO09BS
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO10
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Underwood

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4882639.534	605964.466	336.176

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	BE04
Back Sight PT	LC07
RMSE Hz	0.020
RMSE Z	0.020

PHOTOS:





Point ID	FO11
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Underwood

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4886227.721	602528.178	466.645

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	FO11TP
Back Sight PT	FO11BS
RMSE Hz	0.020
RMSE Z	0.020

PHOTOS:





Point ID	FO12
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Keene Valley

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4889346.509	598560.630	387.741

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	LC09
Back Sight PT	FO12BS
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO13
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Rocky Peak Ridge

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4896632.033	601116.250	511.570

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	FO13TP
Back Sight PT	LC10
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO14
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Elizabethtown

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4900819.715	619531.987	134.281

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	LC16
Back Sight PT	TW03
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO15
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Charlotte

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4902971.227	632391.042	34.599

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	FO15TP
Back Sight PT	LC15
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO16
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Charlotte

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4907564.273	630863.184	53.389

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	BE08
Back Sight PT	LC20
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO17
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Willsboro

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4909034.559	621026.181	118.890

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	FO17TP
Back Sight PT	LC21
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO18
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Lewis

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4903326.048	614403.148	197.350

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	FO18TP
Back Sight PT	LC17
RMSE Hz	0.020
RMSE Z	0.030

PHOTOS:





Point ID	FO19
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Jay Mountain

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4891541.953	613057.83	363.676

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	03-23-2015
Occupy PT	FO19TP
Back Sight PT	FO19BS
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO20
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Keene

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4910221.590	599208.523	273.876

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	FO20TP
Back Sight PT	LC18
RMSE Hz	0.020
RMSE Z	0.030

PHOTOS:





Point ID	FO21
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Franklin Falls

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4921074.926	587496.475	513.445

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	TW06
Back Sight PT	LC28
RMSE Hz	0.020
RMSE Z	0.020

PHOTOS:





Point ID	FO22
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Au Sable Forks

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4921867.542	606019.025	163.316

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	BE11
Back Sight PT	LC26
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO23
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Clintonville

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4917604.669	619413.567	271.832

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	FO23TP
Back Sight PT	LC23
RMSE Hz	0.010
RMSE Z	0.030

PHOTOS:





Point ID	FO24
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Port Douglass

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4919448.421	628217.108	40.891

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	BE09
Back Sight PT	TW04
RMSE Hz	0.020
RMSE Z	0.030

PHOTOS:





Point ID	FO25
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Port Douglass

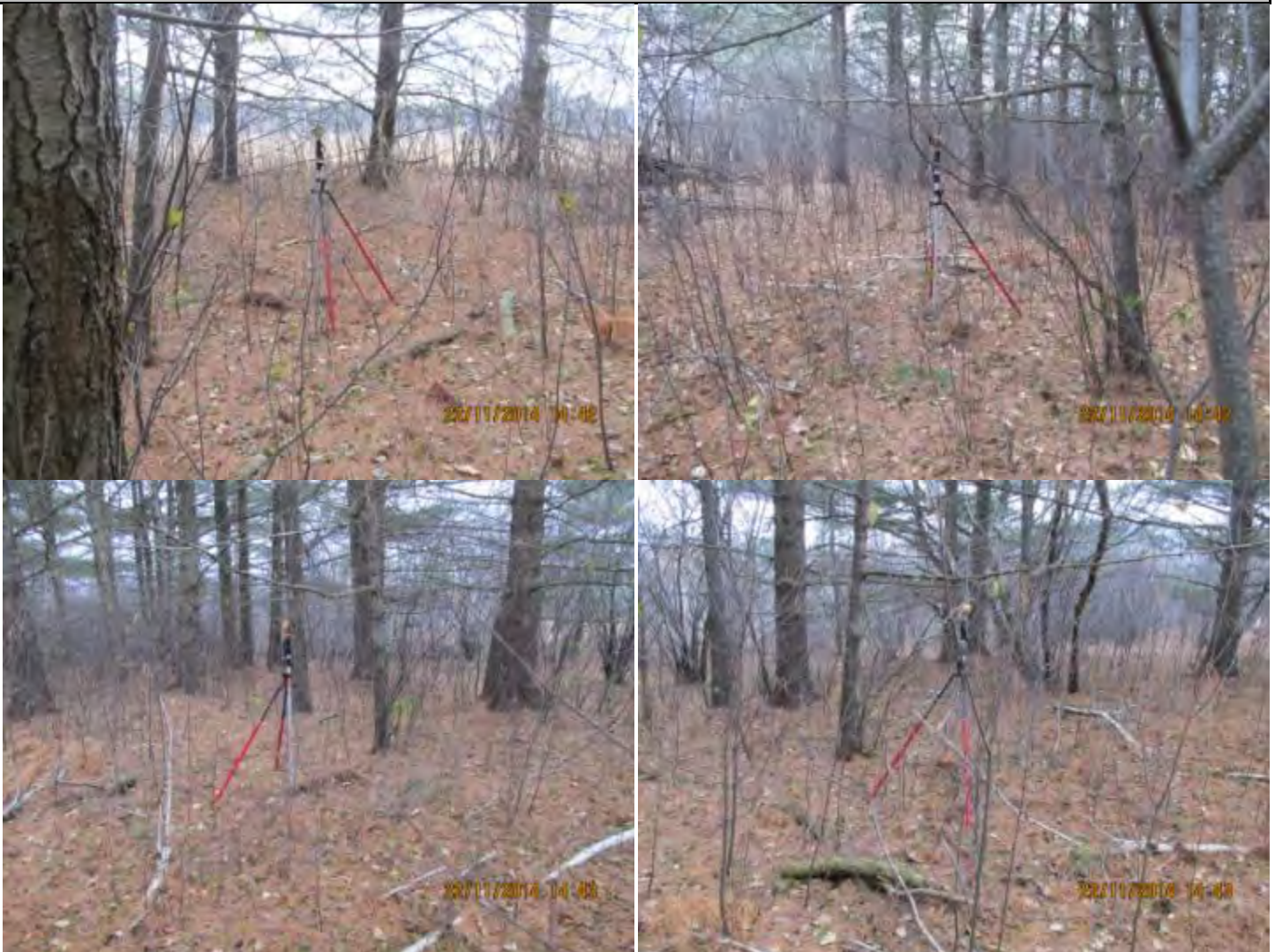
	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4926683.891	620391.540	148.645

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	TW05
Back Sight PT	BE10
RMSE Hz	0.020
RMSE Z	0.030

PHOTOS:





Point ID	FO26
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Peru

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4928841.164	612356.007	124.903

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	LC25BL
Back Sight PT	FO26BS
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO27
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Redford

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4933143.179	599231.059	363.209

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	BE14
Back Sight PT	LC35
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO28
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Redford

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4930183.094	590374.479	429.193

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	3-23-2015
Occupy PT	FO28TP
Back Sight PT	FO28BS
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO29
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Franklin
Quad	Alder Brook

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4935982.814	584012.368	364.248

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	FO29TP
Back Sight PT	LC30
RMSE Hz	0.010
RMSE Z	0.030

PHOTOS:





Point ID	FO30
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Alder Brook

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4938369.310	589236.152	345.178

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	LC31
Back Sight PT	SW13
RMSE Hz	0.020
RMSE Z	0.020

PHOTOS:





nt ID	FO31
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Dannemora

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4939881.520	594820.946	337.205

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	FO31TP
Back Sight PT	FO31BS
RMSE Hz	0.010
RMSE Z	0.030

PHOTOS:





Point ID	FO32
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Lyon Mountain

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4953727.165	586197.862	519.831

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	BE19
Back Sight PT	TW08
RMSE Hz	0.020
RMSE Z	0.030

PHOTOS:





Point ID	FO33
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Chateaugay

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4975872.834	577898.333	325.674

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	TW14
Back Sight PT	LC58
RMSE Hz	0.010
RMSE Z	0.030

PHOTOS:





Point ID	FO34
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	East of Cannon Corners Stations

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4979652.917	600071.440	198.573

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	LC55
Back Sight PT	TW18
RMSE Hz	0.010
RMSE Z	0.030

PHOTOS:





Point ID	FO35
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Ellenburg Mountain

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4966439.758	596202.534	397.964

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	TW19
Back Sight PT	LC46
RMSE Hz	0.020
RMSE Z	0.030

PHOTOS:





Point ID	FO36
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	West Chazy

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4963554.440	610576.600	297.728

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	LC47
Back Sight PT	BE23
RMSE Hz	0.010
RMSE Z	0.030

PHOTOS:





Point ID	FO37
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Moores Station

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4984298.883	610242.660	96.714

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	TW15
Back Sight PT	LC54
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





Point ID	FO38
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Champlain

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4977783.637	623017.386	63.454

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	BE25
Back Sight PT	LC51
RMSE Hz	0.020
RMSE Z	0.030

PHOTOS:





Point ID	FO39
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Morrisonville

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4951172.024	616739.806	117.747

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	BE17
Back Sight PT	LC39
RMSE Hz	0.010
RMSE Z	0.030

PHOTOS:





Point ID	FO40
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Dannemora

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4950150.466	606651.687	233.071

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	3-23-2015
Occupy PT	FO40TP
Back Sight PT	LC40
RMSE Hz	0.010
RMSE Z	0.020

PHOTOS:





TALL WEEDS POINT DATA SHEETS



Point ID	TW01
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Ticonderoga

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4852541.758	622257.972	132.137

Operator	RLI
Receiver Model	R8-3
Receiver S/N	5328439860
Antenna Height	2.00 M

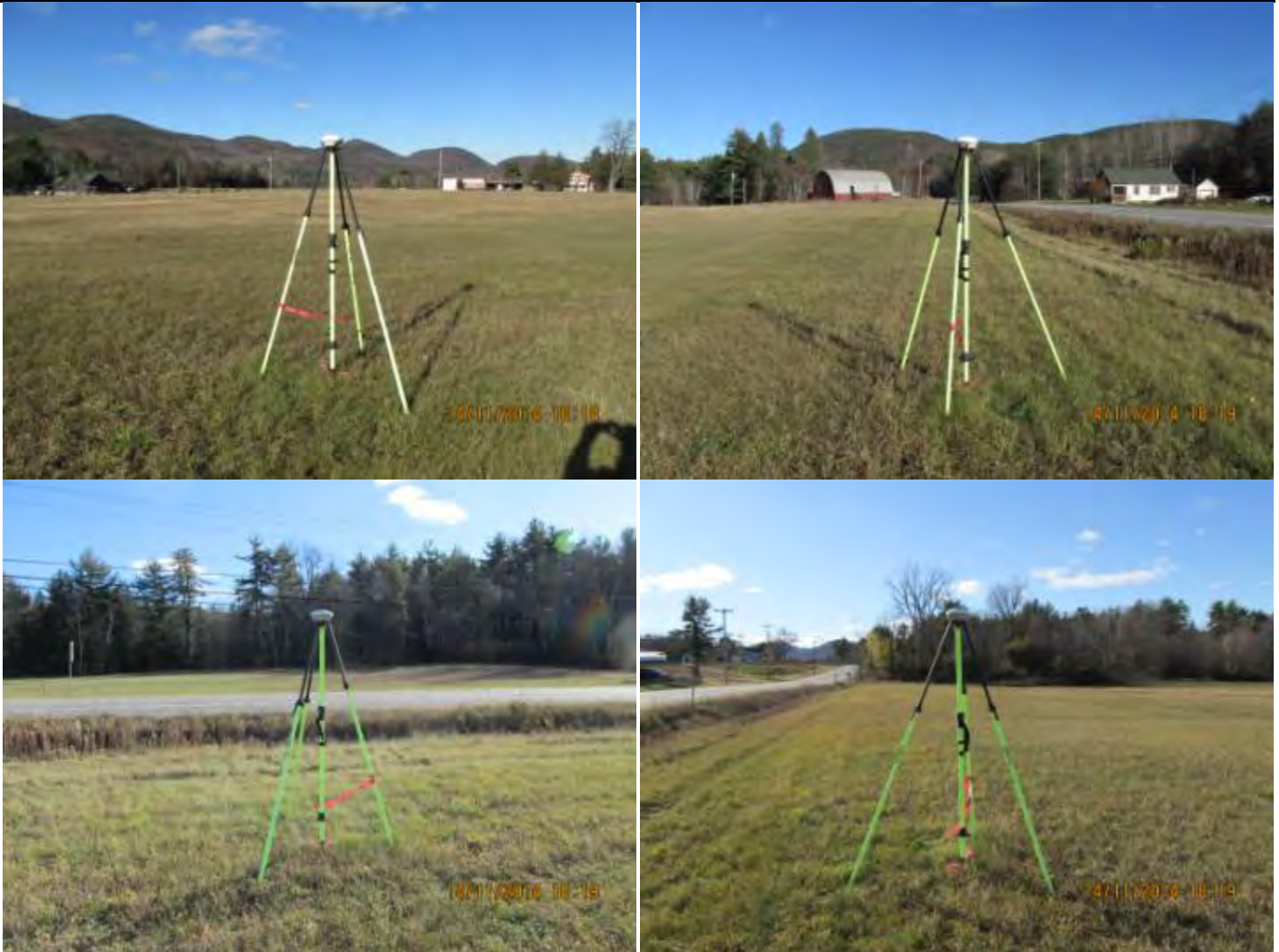
Static Session	98603193
Date (MM-DD-YYYY)	11-15-2014
Start Time (UTC)	17:43
End Time (UTC)	18:54

Point Ties: BE01 - BE03 - LC01 - LC02 - NYET - NYIL - NYRB - VTRU - VTUV

RMSE Hz: 0.008

RMSE Z: 0.016

PHOTOS:





Point ID	TW02
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Crown Point

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4870566.187	624674.463	56.437

Operator	RLI
Receiver Model	R8-3
Receiver S/N	5328439860
Antenna Height	2.00 M

Static Session	98603190
Date (MM-DD-YYYY)	11-15-2014
Start Time (UTC)	14:10
End Time (UTC)	14:26

Point Ties: BE03 - NYET - NYIL

RMSE Hz: 0.013

RMSE Z: 0.017

PHOTOS:





Point ID	TW03
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Elizabethtown

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4900686.616	619688.549	118.856

Operator	RLI
Receiver Model	R8-3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843164
Date (MM-DD-YYYY)	11-12-2014
Start Time (UTC)	18:30
End Time (UTC)	19:13

Point Ties: LC14 - LC16 - NYET - NYIL - NYML - NYRB - SW09 - VTUV

RMSE Hz: 0.007

RMSE Z: 0.015

PHOTOS:





Point ID	TW04
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Port Douglass

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4919279.732	628223.071	41.173

Operator	SAM
Receiver Model	R8-4
Receiver S/N	5407453971
Antenna Height	2.00 M

Static Session	39713155 / 39713156
Date (MM-DD-YYYY)	11-11-2014
Start Time (UTC)	18:19 / 18:48
End Time (UTC)	18:46 / 19:47

Point Ties: BE09 - BE10 - BE17 - NYET - NYML - NYPB - NYPD - NYRB - SW11BS - VTUV

RMSE Hz: 0.006

RMSE Z: 0.016

PHOTOS:





Point ID	TW05
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Port Douglass

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4926718.145	620349.873	150.325

Operator	SMiller
Receiver Model	R8-4
Receiver S/N	5328439860
Antenna Height	2.00 M

Static Session	98603091
Date (MM-DD-YYYY)	11-05-2014
Start Time (UTC)	14:55
End Time (UTC)	15:27

Point Ties: BE10 - LC26 - LC27 - NYET - NYML - NYPB - NYRB

RMSE Hz: 0.008

RMSE Z: 0.017

PHOTOS:





Point ID	TW06
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Franklin Falls

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4921129.082	587462.689	513.047

Operator	RLI
Receiver Model	R8-3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843090
Date (MM-DD-YYYY)	11-05-2014
Start Time (UTC)	12:37
End Time (UTC)	12:56

Point Ties: BE10 - LC28 - NYET - NYML - NYRB

RMSE Hz: 0.009

RMSE Z: 0.014

PHOTOS:





Point ID	TW07
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Redford

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4940067.270	595135.235	346.460

Operator	RLI
Receiver Model	R8-3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843103
Date (MM-DD-YYYY)	11-05-2014
Start Time (UTC)	17:19
End Time (UTC)	17:55

Point Ties: BE13 - BE17 - FO31BS - NYET - NYML - NYPB - NYPD - NYRB - VTSA - VTUV

RMSE Hz: 0.006

RMSE Z: 0.015

PHOTOS:





Point ID	TW08
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Lyon Mountain

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4953702.879	586171.235	520.158

Operator	SAM
Receiver Model	R8-4
Receiver S/N	5328439860
Antenna Height	2.00 M

Static Session	98603114
Date (MM-DD-YYYY)	07-11-2014
Start Time (UTC)	18:02
End Time (UTC)	19:22

Point Ties: BE19 - BE17 - BE21 - FO29TP - NYET - NYML - NYPB - NYPD - NYRB - VTSA - VTUV

RMSE Hz: 0.006

RMSE Z: 0.016

PHOTOS:





Point ID	TW09
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Dannemora

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4953278.128	601251.403	469.219

Operator	SAM
Receiver Model	R8-4
Receiver S/N	5328439860
Antenna Height	2.00 M

Static Session	98603112
Date (MM-DD-YYYY)	07-11-2014
Start Time (UTC)	15:33
End Time (UTC)	16:10

Point Ties: BE17 - BE18 - FO29TP - LC41 - NYET - NYML - NYPB - NYPD - NYRB - VTSA - VTUV

RMSE Hz: 0.006

RMSE Z: 0.017

PHOTOS:





Point ID	TW10
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Morrisonville

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4951223.237	616808.189	118.161

Operator	RLI
Receiver Model	R8-3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843144
Date (MM-DD-YYYY)	11-10-2014
Start Time (UTC)	16:49
End Time (UTC)	17:49

Point Ties: BE17 - LC54 - NYET - NYML - NYPB - NYPD - NYRB - TW11 - VTSA - VTUV

RMSE Hz: 0.006

RMSE Z: 0.018

PHOTOS:





Point ID	TW11
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Plattsburgh

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4951077.835	627785.803	46.044

Operator	SAM
Receiver Model	R8-4
Receiver S/N	5328439860
Antenna Height	2.00 M

Static Session	98603143
Date (MM-DD-YYYY)	10-11-2014
Start Time (UTC)	16:10
End Time (UTC)	17:20

Point Ties: BE16 - TW10 - LC54 - NYET - NYML - NYPB - NYPD - NYRB - VTSA - VTUV

RMSE Hz: 0.007

RMSE Z: 0.019

PHOTOS:





Point ID	TW12
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Beekmantown

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4963025.099	623879.540	49.163

Operator	RLI
Receiver Model	R8-3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843134
Date (MM-DD-YYYY)	11-09-2014
Start Time (UTC)	19:34
End Time (UTC)	20:39

Point Ties: LC49 - LC54 - NYET - NYML - NYPB - NYPD - NYRB - VTSA

RMSE Hz: 0.007

RMSE Z: 0.021

PHOTOS:





Point ID	TW13
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	West Chazy

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4963746.578	610434.667	296.649

Operator	RLI
Receiver Model	R8-3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843141
Date (MM-DD-YYYY)	11-07-2014
Start Time (UTC)	13:01
End Time (UTC)	14:01

Point Ties: BE23 - BE17 - LC48 - LC54 - NYET - NYML - NYPB - NYPD - NYRB - VTSA - VTUV

RMSE Hz: 0.006

RMSE Z: 0.019

PHOTOS:





Point ID	TW14
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Chateaugay

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4975895.906	577852.402	325.128

Operator	SAM
Receiver Model	R8-4
Receiver S/N	5328439860
Antenna Height	2.00 M

Static Session	98603122
Date (MM-DD-YYYY)	08-11-2014
Start Time (UTC)	14:43
End Time (UTC)	15:19

Point Ties: BE20 - BE21 - LC54 - LC58 - NYET - NYPB - NYPD - NYRB - VTSA

RMSE Hz: 0.007

RMSE Z: 0.018

PHOTOS:





Point ID	TW15
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Moore's Station

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4984266.970	610251.325	96.263

Operator	SAM
Receiver Model	R8-4
Receiver S/N	5407453971
Antenna Height	2.0

Static Session	39713131
Date (MM-DD-YYYY)	09-11-2014
Start Time (UTC)	12:34
End Time (UTC)	12:55

Point Ties: BE17 - BE22 - LC54 - NYML - NYPB - NYPD - PMTL - VTSA

RMSE Hz: 0.007

RMSE Z: 0.022

PHOTOS:





Point ID	TW16
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Champlain

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4977803.040	623113.729	62.696

Operator	SAM
Receiver Model	R8-4
Receiver S/N	5407453971
Antenna Height	2.00 M

Static Session	39713134
Date (MM-DD-YYYY)	09-11-2014
Start Time (UTC)	16:15
End Time (UTC)	16:55

Point Ties: BE17 - BE25 - LC51 - LC54 - NYML - NYPB - NYPD - NYRB - PMTL - VTSA

RMSE Hz: 0.006

RMSE Z: 0.022

PHOTOS:





Point ID	TW17
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Moore's

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4972485.286	614644.850	107.355

Operator	SAM
Receiver Model	R8-4
Receiver S/N	5407453971
Antenna Height	2.00 M

Static Session	39713136
Date (MM-DD-YYYY)	09-11-2014
Start Time (UTC)	18:36
End Time (UTC)	20:04

Point Ties: NYML - NYPB - NYPD - NYRB - PMTL

RMSE Hz: 0.010

RMSE Z: 0.026

PHOTOS:





Point ID	TW18
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Altona

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4979686.685	599945.512	200.316

Operator	SAM
Receiver Model	R8-4
Receiver S/N	5328439860
Antenna Height	2.00 M

Static Session	98603124
Date (MM-DD-YYYY)	08-11-2014
Start Time (UTC)	17:17
End Time (UTC)	18:29

Point Ties: BE21 - LC54 - LC55 - NYET - NYML - NYPB - NYPD - NYRB - PMTL - SW07 - VTSA

RMSE Hz: 0.006

RMSE Z: 0.020

PHOTOS:





Point ID	TW19
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Ellenburg Mountain

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4966449.273	596281.362	397.127

Operator	RLI
Receiver Model	R8-3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843125
Date (MM-DD-YYYY)	11-08-2014
Start Time (UTC)	19:56
End Time (UTC)	21:20

Point Ties: BE21 - LC46 - LC53 - NYET - NYML - NYPB - NYPD - NYRB - PMTL - VTSA

RMSE Hz: 0.006

RMSE Z: 0.019

PHOTOS:





Point ID	TW20
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Moffitsville

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4947324.445	595544.098	435.978

Operator	SAM
Receiver Model	R8-4
Receiver S/N	5328439860
Antenna Height	2.00 M

Static Session	98603111
Date (MM-DD-YYYY)	11-07-2014
Start Time (UTC)	13:57
End Time (UTC)	15:04

Point Ties: BE17 - FO29TP - LC41 - LC42 - NYET - NYML - NYPB - NYRB - VTSA

RMSE Hz: 0.007

RMSE Z: 0.017

PHOTOS:





SWAMP/MARSH POINT DATA SHEETS



Point ID	SW01
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Au Sable Forks

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4923571.008	599996.403	290.540

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 4
Receiver S/N	5407453971
Antenna Height	2.00 M

Static Session	39713150
Date (MM-DD-YYYY)	11-11-2014
Start Time (UTC)	12:37
End Time (UTC)	14:28

Point Ties: BE10 - BE17 - NYET - NYML - NYPB - NYRB - SW02 - SW12 - VTUV

RMSE Hz: 0.007

RMSE Z: 0.015

PHOTOS:





Point ID	SW02
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Au Sable Forks

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4921863.482	605748.191	166.618

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

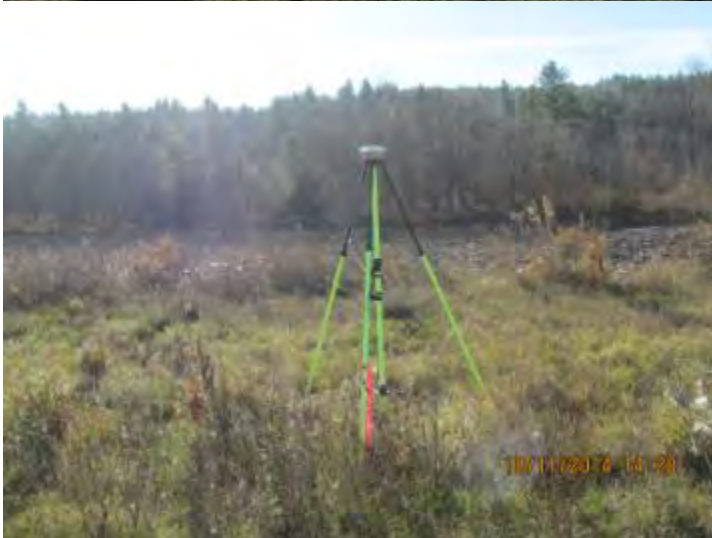
Static Session	1884314
Date (MM-DD-YYYY)	11-11-2014
Start Time (UTC)	13:58
End Time (UTC)	15:44

Point Ties: BE10 - BE17 - LC23 - NYET - NYML - NYPB - NYPD - NYRB - SW01 - SW01 - VTUV

RMSE Hz: 0.006

RMSE Z: 0.015

PHOTOS:





Point ID	SW03
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Jay Mountain

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4906076.137	602377.185	475.147

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 4
Receiver S/N	5407453971
Antenna Height	2.00 M

Static Session	139713212
Date (MM-DD-YYYY)	11-17-2014
Start Time (UTC)	16:46
End Time (UTC)	17:26

Point Ties: FO13BS - LC14 - LC19 - NYET - NYIL - NYPB - NYRB - VTSA - VTUV

RMSE Hz: 0.007

RMSE Z: 0.013

PHOTOS:





Point ID	SW04
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Rocky Peak Ridge

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4896670.204	600956.462	505.936

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 4
Receiver S/N	5407453971
Antenna Height	2.00 M

Static Session	139713213
Date (MM-DD-YYYY)	11-17-2014
Start Time (UTC)	17:56
End Time (UTC)	19:22

Point Ties: LC10 - FO13BS - LC14 - NYET - NYIL - NYML - NYPB - NYPD - NYRB - VTSA - VTUV

RMSE Hz: 0.007

RMSE Z: 0.014

PHOTOS:





Point ID	SW05
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Elizabethtown

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4890978.417	613072.176	341.721

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 4
Receiver S/N	5407453971
Antenna Height	2.00 M

Static Session	09760810
Date (MM-DD-YYYY)	03-22-2015
Start Time (UTC)	16:15
End Time (UTC)	17:15

Point Ties: ALC05 – FO28TP – FO28BS – BE05 - NYET - NYIL - NYML - NYPB - NYPD - NYRB - VTSA - VTUV

RMSE Hz: 0.007

RMSE Z: 0.014

PHOTOS:





Point ID	SW06
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Elizabethtown

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4886737.899	612713.217	318.020

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 4
Receiver S/N	5407453971
Antenna Height	2.00 M

Static Session	139713205
Date (MM-DD-YYYY)	11-16-2014
Start Time (UTC)	19:57
End Time (UTC)	20:40

Point Ties: FO08TP - FO13BS - LC12 - LC14 - NYET

RMSE Hz: 0.011

RMSE Z: 0.016

PHOTOS:





Point ID	SW07
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Underwood

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4982789.142	585711.068	313.874

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5046455718
Antenna Height	2.0

Static Session	51783201
Date (MM-DD-YYYY)	11-16-2014
Start Time (UTC)	15:05
End Time (UTC)	15:40

Point Ties: BE21 - LC54 - LC57 - NYET - NYML - NYPB - NYPD - NYRB - PMTL - TW18 - VTSA

RMSE Hz: 0.006

RMSE Z: 0.020

PHOTOS:





Point ID	SW08
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Graphite

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4858806.323	611939.839	287.897

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5328439860
Antenna Height	2.00 M

Static Session	98603194
Date (MM-DD-YYYY)	11-15-2014
Start Time (UTC)	19:30
End Time (UTC)	21:22

Point Ties: LC01 - BE01 - BE03 - NYET - NYIL - NYRB - VTRU - VTUV

RMSE Hz: 0.008

RMSE Z: 0.015

PHOTOS:





Point ID	SW09
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Elizabethtown

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4900625.908	619669.521	114.423

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 4
Receiver S/N	5328439860
Antenna Height	2.00 M

Static Session	98603166
Date (MM-DD-YYYY)	11-12-2014
Start Time (UTC)	18:57
End Time (UTC)	19:31

Point Ties: BE07 - LC14 - NYET - NYML - NYPB - TW03 - VTUV

RMSE Hz: 0.008

RMSE Z: 0.015

PHOTOS:





Point ID	SW10
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Peru

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4928657.349	612178.992	114.381

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	03-23-2015
Occupy PT	SW10TP
Back Sight PT	FO26TP
RMSE Hz	0.020
RMSE Z	0.020

PHOTOS:





Point ID	SW11
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Keeseville

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4937181.719	623017.609	30.126

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	11-20-2014
Occupy PT	SW11TP
Back Sight PT	SW11BS
RMSE Hz	0.010
RMSE Z	0.030

PHOTOS:





Point ID	SW12
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Redford

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4930178.479	590575.337	424.833

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843150
Date (MM-DD-YYYY)	11-11-2014
Start Time (UTC)	12:18
End Time (UTC)	12:50

Point Ties: BE10 - BE17 - NYET - NYML - NYPB - NYPD - NYRB - SW01 - VTUV

RMSE Hz: 0.007

RMSE Z: 0.014

PHOTOS:





Point ID	SW13
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Alder Brook

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4938300.879	589280.679	343.406

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5407453971
Antenna Height	2.00 M

Static Session	39713101
Date (MM-DD-YYYY)	11-06-2014
Start Time (UTC)	15:28
End Time (UTC)	16:45

Point Ties: LC31 - LC32 - BE17 - NYET - NYML - NYPB - NYPD - NYRB - VTSA - VTUV

RMSE Hz: 0.007

RMSE Z: 0.015

PHOTOS:





Point ID	SW14
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Alder Brook

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4936178.645	584210.018	356.455

Operator	SAM
Receiver Model	TRIMBLE R8 - MODEL 4
Receiver S/N	5407453971
Antenna Height	2.00 M

Static Session	39713100
Date (MM-DD-YYYY)	06-11-2014
Start Time (UTC)	13:48
End Time (UTC)	15:14

Point Ties: LC31 - FO29BS - NYET

RMSE Hz: 0.011

RMSE Z: 0.016

PHOTOS:





Point ID	SW15
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Dannemora

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4949906.096	606363.823	222.220

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843106
Date (MM-DD-YYYY)	11-05-2014
Start Time (UTC)	21:42
End Time (UTC)	22:58

Point Ties: BE17 - FO40TP - LC40BL - NYET - NYML - NYPB - NYPD - NYRB - VTSA - VTUV

RMSE Hz: 0.007

RMSE Z: 0.018

PHOTOS:





Point ID	SW16
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Morrisonville

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4951318.902	616724.262	117.452

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843145
Date (MM-DD-YYYY)	11-10-2014
Start Time (UTC)	18:00
End Time (UTC)	18:31

Point Ties: BE17 - LC54 - NYET - NYML - NYPB - NYPD - NYRB - VTSA - VTUV

RMSE Hz: 0.007

RMSE Z: 0.018

PHOTOS:





Point ID	SW17
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Beekmantown

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4956765.625	621030.009	42.301

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843142
Date (MM-DD-YYYY)	11-10-2014
Start Time (UTC)	14:24
End Time (UTC)	15:25

Point Ties: BE17 - LC38 - LC48 - LC54 - NYET - NYML - NYPB - NYPD - NYRB - VTSA - VTUV

RMSE Hz: 0.006

RMSE Z: 0.019

PHOTOS:





Point ID	SW18
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	West Chazy

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4963553.818	610580.739	297.767

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	03-23-2015
Occupy PT	SW18TP
Back Sight PT	BE23
RMSE Hz	0.020
RMSE Z	0.030

PHOTOS:





Point ID	SW19
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Champlain

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4977815.517	623162.566	61.711

Operator	Zeke Ingram
Instrument Model	Trimble M3 2"
Date (MM-DD-YYYY)	03-23-2015
Occupy PT	BE25
Back Sight PT	LC51
RMSE Hz	0.020
RMSE Z	0.030

PHOTOS:





Point ID	SW20
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Clinton
Quad	Churubusco Station

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4882477.714	606118.406	320.070

Operator	RLI
Receiver Model	TRIMBLE R8 - MODEL 3
Receiver S/N	5108461884
Antenna Height	2.00 M

Static Session	18843123
Date (MM-DD-YYYY)	11-08-2014
Start Time (UTC)	16:36
End Time (UTC)	17:48

Point Ties: BE04 - FO13BS - LC07 - LC14 - NYET - NYIL - NYRB - VTRU - VTUV

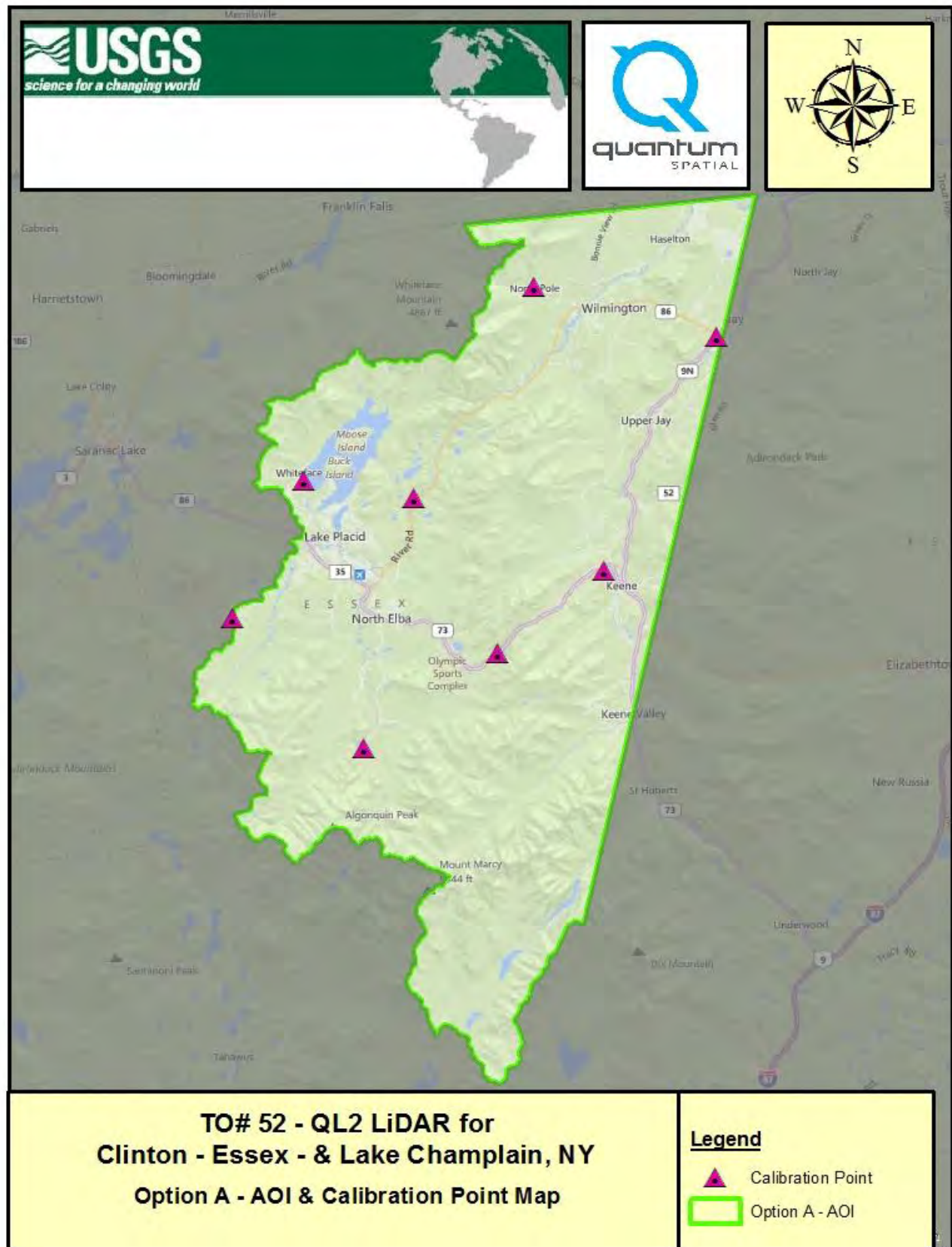
RMSE Hz: 0.007

PHOTOS:





ADDITIONAL LIDAR – OPTION A AOI & POINT MAP





ADDITIONAL LIDAR – OPTION A FINAL POINT COORDINATES

**CALIBRATION POINT COORDINATES**

Horizontal Datum - NAD83(2011)

UTM Zone 18 North

Vertical Datum - NAVD 88

Geoid - GEOID12A

Units – Meters

POINT_ID	Northing	Easting	Elevation
ALC01	4892518.475	582649.232	666.102
ALC02	4905776.388	585261.926	504.759
ALC03	4901906.859	595358.691	348.088
ALC04	4906681.27	579482.71	587.367
ALC05	4914257.807	601319.218	211.77
ALC06	4916957.778	591657.915	516.81
ALC07	4897513.569	589713.71	628.849
ALC08	4899388.289	575682.408	627.072



ADDITIONAL LIDAR – OPTION A POINT LOCATION & ACCURACY DATA SHEETS



Point ID	ALC01
Project No.	23902
Project Name	NY CLINTON ESSEX
State	NEW YORK
County	ESSEX
Quad	NORTH ELBA

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4892518.475	582649.232	666.102

Operator	ZEKE INGRAM
Receiver Model	R8-3
Receiver S/N	5136472526
Antenna Height	2.00 M

Static Session	25263302
Date (MM-DD-YYYY)	11-26-2014
Start Time (UTC)	17:17
End Time (UTC)	19:06

Point Ties: ALC07 - ALC08 - NYET - NYIL - NYML - NYPB - NYRB

RMSE Hz: 0.008

RMSE Z: 0.013

PHOTOS:





Point ID	ALC02
Project No.	23902
Project Name	NY CLINTON ESSEX
State	NEW YORK
County	ESSEX
Quad	LAKE PLACID

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4905776.387	585261.926	504.760

Operator	ZEKE INGRAM
Receiver Model	R8-3
Receiver S/N	5133470976
Antenna Height	2.00 M

Static Session	09763320
Date (MM-DD-YYYY)	11-28-2014
Start Time (UTC)	15:08
End Time (UTC)	16:47

Point Ties: ALC03 - ALC04BL - NYET - NYHL - NYIL - NYML - NYPB - NYPD - NYRB - VTUV

RMSE Hz: 0.007

RMSE Z: 0.013

PHOTOS:





Point ID	ALC03
Project No.	23902
Project Name	NY CLINTON ESSEX
State	NEW YORK
County	ESSEX
Quad	KEENE

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4901906.859	595358.691	348.088

Operator	ZEKE INGRAM
Receiver Model	R8-3
Receiver S/N	5136472526 / 5133470976
Antenna Height	2.00 Meters

Static Session	25263303 / 25263320 / 09763322
Date (YYYY-MM-DD)	2014-11-26 / 28 / 28
Start Time (UTC)	19:36 / 14:42 / 19:43
End Time (UTC)	20:16 / 15:38 / 20:14

Point Ties: ALC02 - ALC05BL - ALC07 - NYET - NYHL - NYIL - NYML - NYPB - NYPD - NYRB - VTUV

RMSE Hz: 0.006

RMSE Z: 0.012

PHOTOS:





Point ID	ALC04
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	McKenzie Mountain

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4906681.27	579482.71	587.367

Operator	SAM
Receiver Model	Trimble R8 – Model 3
Receiver S/N	5106461066
Antenna Height	2.00 M

Static Session	10660810
Date (MM-DD-YYY)	22-MAR-2015
Start Time (UTC)	15:50
End Time (UTC)	17:01

Point Ties: ALC05 – BE05 – BLC03 – BLC08 – SW05 – HDF6 – NYET - NYHL – NYIL – NYML – NYPB
NYRB – VTRU – VTSA – VTUV

RMSE Hz: 0.005

RMSE Z: 0.014

PHOTOS:





Point ID	ALC05
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Wilmington

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4914257.807	601319.218	211.77

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model 3
Receiver S/N	5106461067
Antenna Height	2.000 Meters

Static Session	10670810
Date (MM-DD-YYYY)	03-22-2015
Start Time (UTC)	12:48
End Time (UTC)	20:58

Point Ties: ALC04 – BE05 – BLC03 – BLC08 – SW05 – HDF6 – NYET - NYHL – NYIL – NYML – NYPB
NYRB – VTRU – VTSA – VTUV

RMSE Hz: 0.005
RMSE Z: 0.015

PHOTOS:





Point ID	ALC06
Project No.	23902
Project Name	NY CLINTON ESSEX
State	NEW YORK
County	ESSEX
Quad	WILMINGTON

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4916957.778	591657.915	516.810

Operator	ZEKE INGRAM
Receiver Model	R8-3
Receiver S/N	5133470976
Antenna Height	2.00 M

Static Session	09763321
Date (MM-DD-YYYY)	11-28-2014
Start Time (UTC)	17:12
End Time (UTC)	19:08

Point Ties: ALC05BL - ALC04BL - NYET - NYHL - NYIL - NYML - NYPB - NYPD - NYRB - VTUV

RMSE Hz: 0.007

RMSE Z: 0.014

PHOTOS:





Point ID	ALC07
Project No.	23902
Project Name	NY CINTON ESSEX
State	NEW YORK
County	ESSEX
Quad	NORTH ELBA

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4897513.569	589713.710	628.850

Operator	ZEKE INGRAM
Receiver Model	R8-3
Receiver S/N	5133470976
Antenna Height	2.00 M

Static Session	09763303
Date (MM-DD-YYYY)	11-26-2014
Start Time (UTC)	18:36
End Time (UTC)	20:06

Point Ties: ALC03 - ALC01 - NYET - NYHL - NYIL - NYML - NYPB - NYPD - NYRB - VTUV

RMSE Hz: 0.007

RMSE Z: 0.013

PHOTOS:





Point ID	ALC08
Project No.	23902
Project Name	NY CLINTON ESSEX
State	NEW YORK
County	ESSEX
Quad	STREET MOUNTAIN

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4899388.288	575682.407	627.072

Operator	ZEKE INGRAM
Receiver Model	R8-3
Receiver S/N	5133470976
Antenna Height	2.00 M

Static Session	09763302
Date (MM-DD-YYYY)	11-26-2014
Start Time (UTC)	15:37
End Time (UTC)	18:04

Point Ties: ALC01 - BLC01 - NYET - NYHL - NYIL - NYML - NYPB - NYPD - NYRB - VTUV

RMSE Hz: 0.007

RMSE Z: 0.011

PHOTOS:





ADDITIONAL LIDAR – OPTION B AOI & POINT MAP



Calibration Point
Option B - AOI



ADDITIONAL LIDAR – OPTION B FINAL POINT COORDINATES

**CALIBRATION POINT COORDINATES**

Horizontal Datum - NAD83(2011)

UTM Zone 18 North

Vertical Datum - NAVD 88

Geoid - GEOID12A

Units – Meters

POINT_ID	Northing	Easting	Elevation
BLC01	4900558.251	562502.321	480.455
BLC02	4907286.053	552825.48	486.953
BLC03	4917186.046	572089.123	519.723
BLC04	4935401.47	572610.195	523.66
BLC05	4926637.75	583447.934	455.517
BLC06	4909718.161	547401.007	484.786
BLC07	4914158.939	564750.13	504.795
BLC08	4924162.725	575414.681	529.898



ADDITIONAL LIDAR – OPTION B POINT LOCATION & ACCURACY DATA SHEETS



Point ID	BLC01
Project No.	23902
Project Name	NY CLINTON ESSEX
State	NEW YORK
County	FRANKLIN
Quad	SARANAC LAKE

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4900558.251	562502.321	480.455

Operator	ZEKE INGRAM
Receiver Model	R8-3
Receiver S/N	5136472526
Antenna Height	2.00 M

Static Session	25263301
Date (MM-DD-YYYY)	11-26-2014
Start Time (UTC)	14:25
End Time (UTC)	16:12

Point Ties: ALC08 - BLC02 - NYET - NYHL - NYIL - NYPB - NYPD - NYRB - VTUV

RMSE Hz: 0.007

RMSE Z: 0.011

PHOTOS:





Point ID	BLC02
Project No.	23902
Project Name	NY CLINTON ESSEX
State	NEW YORK
County	FRANKLIN
Quad	UPPER SARANAC LAKE

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4907286.053	552825.480	486.953

Operator	ZEKE INGRAM
Receiver Model	R8-3
Receiver S/N	5133470976
Antenna Height	2.00 M

Static Session	09763301
Date (MM-DD-YYYY)	11-26-2014
Start Time (UTC)	13:21
End Time (UTC)	14:56

Point Ties: BLC01 - BLC06 - NYET - NYHL - NYIL - NYML - NYPB - NYPD - NYRB - VTUV

RMSE Hz: 0.007

RMSE Z: 0.011

PHOTOS:





Point ID	BLC03
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Essex
Quad	Bloomington

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4917186.046	572089.123	519.723

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model 3
Receiver S/N	5046455718
Antenna Height	2.000 Meters

Static Session	57180811
Date (MM-DD-YYYY)	03-22-2015
Start Time (UTC)	12:53
End Time (UTC)	15:01

Point Ties: ALC05 – BE05 – BLC08 – ALC04 – SW05 – HDF6 – NYET - NYHL – NYIL – NYML – NYPB
NYRB – VTRU – VTSA – VTUV

RMSE Hz: 0.005

RMSE Z: 0.013

PHOTOS:





Point ID	BLC04
Project No.	23902
Project Name	NY CLINTON ESSEX
State	NEW YORK
County	FRANKLIN
Quad	LOON LAKE

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4935401.470	572610.195	523.659

Operator	ZEKE INGRAM
Receiver Model	R8-3
Receiver S/N	5136472526
Antenna Height	2.00 M

Static Session	25263290
Date (MM-DD-YYYY)	11-25-2014
Start Time (UTC)	15:37
End Time (UTC)	16:48

Point Ties: BLC05 - NYET - NYHL - NYIL - NYRB

RMSE Hz: 0.008

RMSE Z: 0.015

PHOTOS:





Point ID	BLC05
Project No.	23902
Project Name	NY CLINTON ESSEX
State	NEW YORK
County	FRANKLIN
Quad	FRANKLIN FALLS

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4926637.750	583447.933	455.516

Operator	ZEKE INGRAM
Receiver Model	R8-3
Receiver S/N	5133470976
Antenna Height	2.00 M

Static Session	09763290
Date (MM-DD-YYYY)	11-25-2014
Start Time (UTC)	16:06
End Time (UTC)	17:57

Point Ties: BLC04 - BLC08BL - NYET - NYHL - NYIL - NYML - NYPB - NYPD - NYRB - VTUV

RMSE Hz: 0.007

RMSE Z: 0.014

PHOTOS:





Point ID	BLC06
Project No.	23902
Project Name	NY CLINTON ESSEX
State	NEW YORK
County	FRANKLIN
Quad	DERRICK

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4909718.161	547401.007	484.785

Operator	ZEKE INGRAM
Receiver Model	R8-3
Receiver S/N	51362526
Antenna Height	2.00 M

Static Session	25263300
Date (MM-DD-YYY)	11-26-2014
Start Time (UTC)	12:34
End Time (UTC)	13:52

Point Ties: BLC02 - BLC07 - NYET - NYHL - NYIL - NYPB - NYPD - NYRB - VTUV

RMSE Hz: 0.007
RMSE Z: 0.012

PHOTOS:





Point ID	BLC07
Project No.	23902
Project Name	NY CLINTON ESSEX
State	NEW YORK
County	FRANKLIN
Quad	GABRIELS

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4914158.939	564750.129	504.794

Operator	ZEKE INGRAM
Receiver Model	R8-3
Receiver S/N	5136472526 / 5133470976
Antenna Height	2.00 M

Static Session	25263292 / 09763300
Date (MM-DD-YYYY)	11-25-2014 / 11-26-2014
Start Time (UTC)	19:52 / 12:06
End Time (UTC)	20:54 / 13:04

Point Ties: BLC03BL - BLC06 - NYET - NYHL - NYIL - NYML - NYPB - NYPD - NYRB - VTUV

RMSE Hz: 0.006

RMSE Z: 0.011

PHOTOS:





Point ID	BLC08
Project No.	23902
Project Name	NY_Clinton_Essex_Lake Champlain LiDAR
State	New York
County	Franklin
Quad	Bloomingdale

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

Coordinate System
NAD83(2011)
UTM – Zone 18N
NAVD88
GEOID12A
Meters

Northing	Easting	Elevation
4924162.725	575414.681	529.898

Operator	Kevin Chapman
Receiver Model	Trimble R8 Model 3
Receiver S/N	5046455718
Antenna Height	2.000 Meters

Static Session	57180810
Date (MM-DD-YYYY)	03-22-2015
Start Time (UTC)	13:53
End Time (UTC)	15:00

Point Ties: ALC05 – BE05 – BLC03 – BLC04 – SW05 – HDF6 – NYET - NYHL – NYIL – NYML – NYPB
NYRB – VTRU – VTSA – VTUV

RMSE Hz: 0.005
RMSE Z: 0.013

PHOTOS:

