NovAtel Connect

Device View Tools Wizards

DLV3 -

## DLV3 - Constellation

GPS: 9/12
GLONASS: 0/8
SBAS: 0/2


SV Details | Mask Angle Details

PRN --- AZ --- ELEV --- C/No --- STATUS No SV

## DLV3 - Position

| | | |
|---|---|---|
| Latitude | 50.43902009° | +/- 0.90m |
| Longitude | 30.42973293° | +/- 0.55m |
| Hgt. (MSL) | 190.952m | +/- 1.47m |

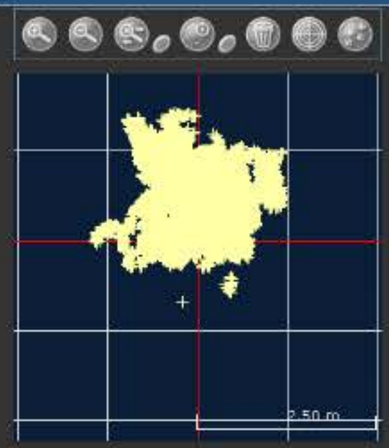
| | |
|---|---|
| Solution type | SBAS |
| Iono correction | Multi-frequency |
| Advanced RTK status | N/A |
| Solution age | 0 second |
| Differential age | 5 seconds |

| | |
|---|---|
| # of satellites | 9 |
| Used in solution | GPS L1 L2 L5 |
| | GLO L1 L2 |

| | |
|---|---|
| Solution status | Computed |

Wed 20/04/2016 13:25:50 GMT
Wed 20/04/2016 16:25:50 Local

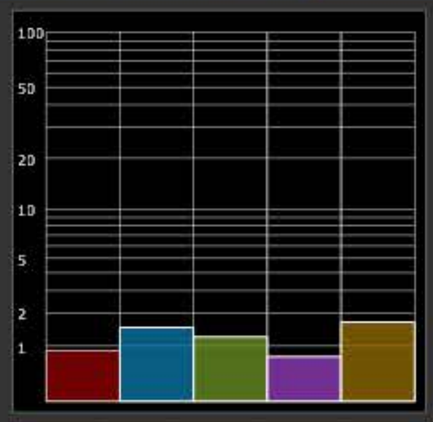
## DLV3 - Plan




| | |
|---|---|
| Lat. | 50.43902009° ±0.900m |
| Long. | 30.42973293° ±0.551m |

## DLV3 - GPS Tracking Channel Status


## DLV3 - Dilution Of Precision (DOP)




| HDOP | PDOP | VDOP | TDOP | GDOP |
|---|---|---|---|---|
| 0.878 | 1.520 | 1.242 | 0.748 | 1.595 |

## DLV3 - Console Window

<OK
[COM1]
<OK
[COM1]

Command

ENTER

Tx Rx

74 % 94 kb/s

## DLV3 - Logging Control Window

COM1 (Current Port)

| Log File | Logs | Size | Elapsed: |
|---|---|---|---|
| sus482/data/In_date/2016_04_20_EGNOS.gps | 165178 | 141.33MB | 08h 34m 45s |

пуск NovAtel Connect EN 16:24

# Global View

| | |
|---|---|
| site | Laboratory satellite systems |
| abreviation | NAU |
| country | Ukraine |
| city | Kiev |
| comment | Konin V., Shyshkov F. InsideGNSS, Jan-Feb 2015, P.50 - 54 |
| program | Pegasus |
| version | 4.8.4 |
| date | 21/04/2016 |

## SBAS Messages

**start:** 04:51:5.129 20.04.2016 ( week: 1893 sec: 276665.129 )
**end:** 13:27:44.129 20.04.2016 ( week: 1893 sec: 307664.129 )
**duration:** 08:36:39 ..

### quality

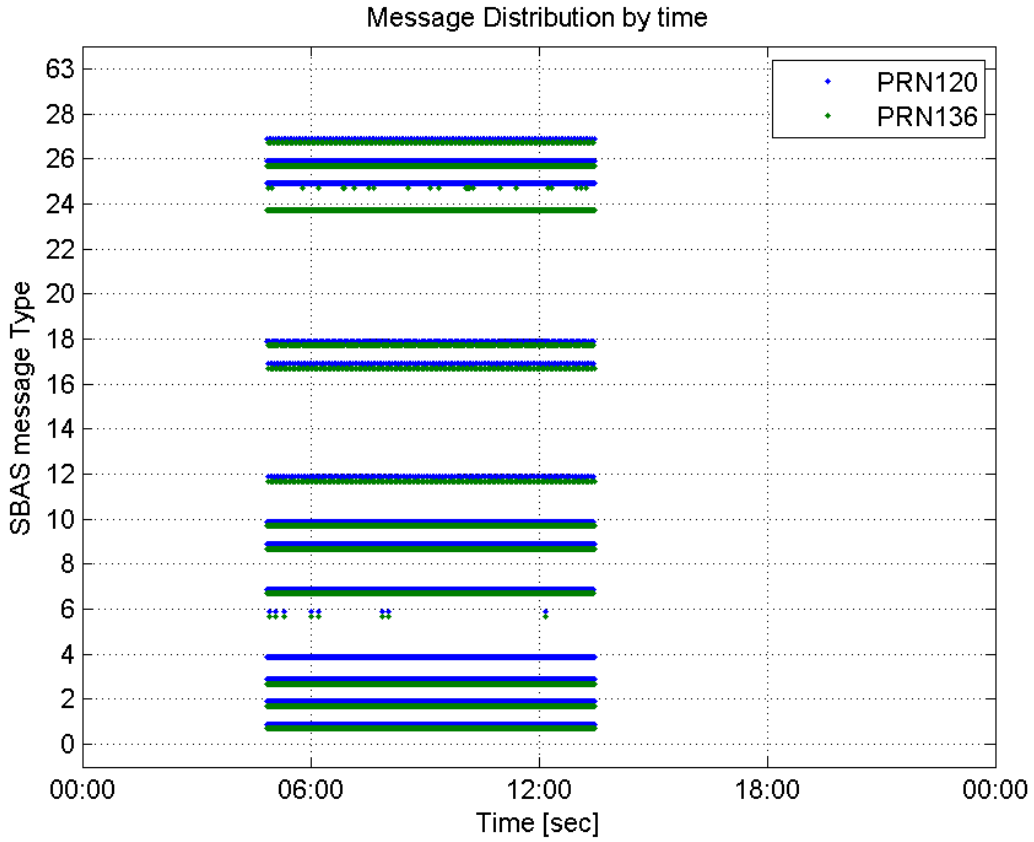
| | |
|---|---|
| **valid samples** | 61971 |
| **total samples** | 61971 |
| **number of SBAS PRNs** | 2 |

### SBAS SIS Overview

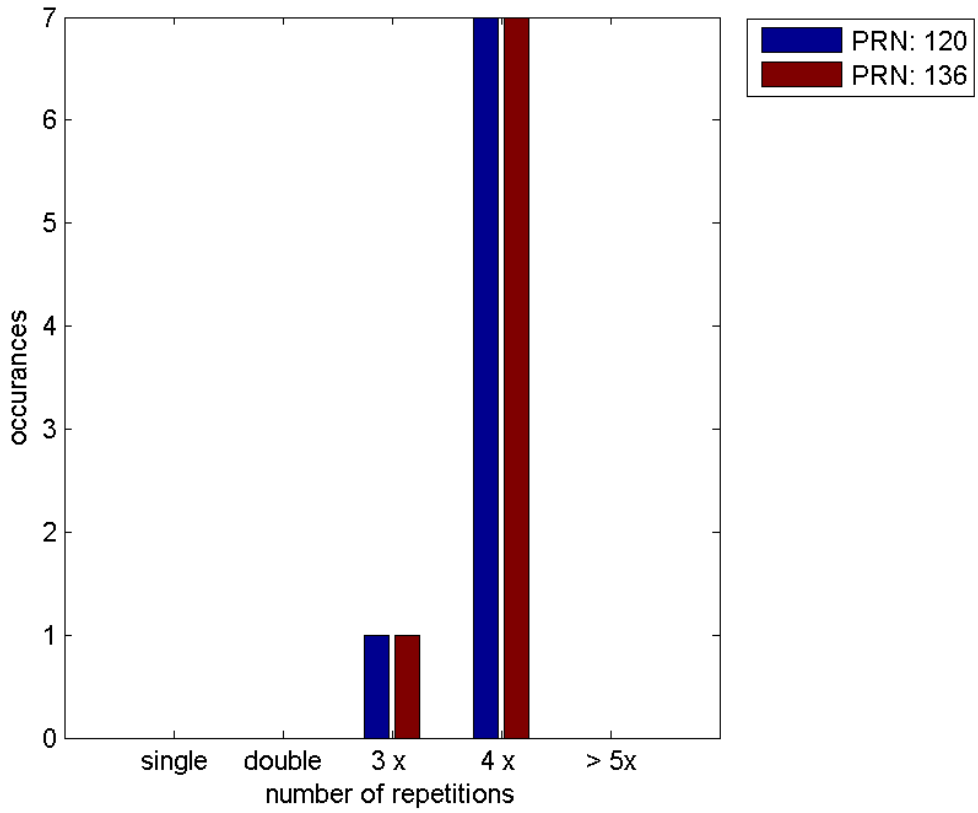
**Message Type 6 repetitions :**

| | single | double | 3 x | 4 x | > 5x |
|---|---|---|---|---|---|
| **PRN 120** | 0 | 0 | 1 | 7 | 0 |
| **PRN 136** | 0 | 0 | 1 | 7 | 0 |

**Message Distribution by time:**




**Message Type 6 repetitions:**




## SBAS SIS Analysis

**PRN** 120

**Broadcast SBAS Messages :**

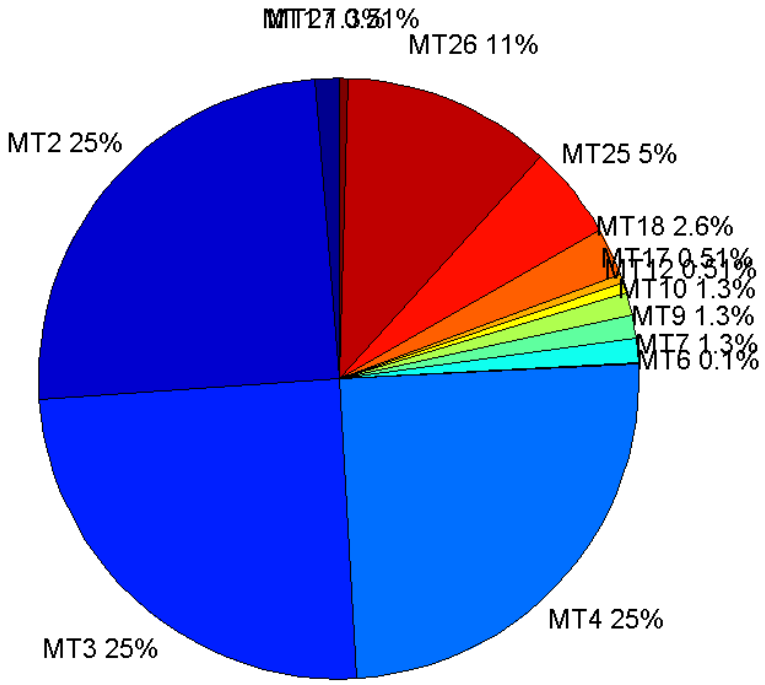
| | number of messages | % |
|---|---|---|
| **MT 0** | 0 | 0 |
| **MT 1** | 389 | 1.25601 |
| **MT 2** | 7693 | 24.8394 |
| **MT 3** | 7692 | 24.8361 |
| **MT 4** | 7691 | 24.8329 |
| **MT 5** | 0 | 0 |
| **MT 6** | 32 | 0.103322 |
| **MT 7** | 389 | 1.25601 |
| **MT 9** | 390 | 1.25924 |
| **MT 10** | 389 | 1.25601 |
| **MT 12** | 158 | 0.510155 |
| **MT 17** | 158 | 0.510155 |
| **MT 18** | 790 | 2.55077 |
| **MT 24** | 0 | 0 |
| **MT 25** | 1563 | 5.04666 |
| **MT 26** | 3478 | 11.2299 |
| **MT 27** | 159 | 0.513383 |
| **MT 28** | 0 | 0 |
| **MT 62** | 0 | 0 |
| **MT 63** | 0 | 0 |
| **Total** | 30971 | 100 |

**Update intervals :**

| | Minimum [s] | Maximum [s] | Mean value | Exceed Max update | Exceed NPA timeout | Exceed PA timeout |
|---|---|---|---|---|---|---|
| **MT 0** | -- | -- | -- | -- | -- | -- |
| **MT 1** | 76 | 84 | 79.6649 | 0 | 0 | 0 |
| **MT 2** | 4 | 32 | 4.03003 | 9 | 1 | 1 |
| **MT 3** | 4 | 32 | 4.03004 | 9 | 1 | 1 |
| **MT 4** | 4 | 36 | 4.03069 | 9 | 1 | 1 |
| **MT 5** | -- | -- | -- | -- | -- | -- |
| **MT 6** | 1 | 14794 | 843.548 | 7 | 7 | 7 |
| **MT 7** | 76 | 83 | 79.6624 | 0 | 0 | 0 |
| **MT 9** | 76 | 81 | 79.635 | 0 | 0 | 0 |
| **MT 10** | 76 | 88 | 79.6598 | 0 | 0 | 0 |
| **MT 12** | 188 | 201 | 195.898 | 157 | 0 | 0 |
| **MT 17** | 188 | 203 | 195.904 | 0 | 0 | 0 |
| **MT 18** | 4 | 162 | 39.0279 | 0 | 0 | 0 |
| **MT 24** | -- | -- | -- | -- | -- | -- |
| **MT 25** | 1 | 80 | 19.8323 | 0 | 0 | 0 |
| **MT** | 4 | 36 | 8.91286 | 0 | 0 | 0 |

| | | | | | | |
|---|---|---|---|---|---|---|
| **26** | | | | | | |
| **MT 27** | 183 | 203 | 195.886 | 0 | 0 | 0 |
| **MT 28** | -- | -- | -- | -- | -- | -- |
| **MT 62** | -- | -- | -- | -- | -- | -- |
| **MT 63** | -- | -- | -- | -- | -- | -- |

**Message Distribution PRN 120:**




## SBAS SIS Analysis

**PRN** 136

**Broadcast SBAS Messages :**

| | number of messages | % |
|---|---|---|
| **MT 0** | 0 | 0 |
| **MT 1** | 483 | 1.55806 |
| **MT 2** | 7740 | 24.9677 |
| **MT 3** | 7740 | 24.9677 |
| **MT 4** | 0 | 0 |
| **MT 5** | 0 | 0 |
| **MT 6** | 32 | 0.103226 |
| **MT 7** | 482 | 1.55484 |
| **MT 9** | 482 | 1.55484 |
| **MT 10** | 482 | 1.55484 |

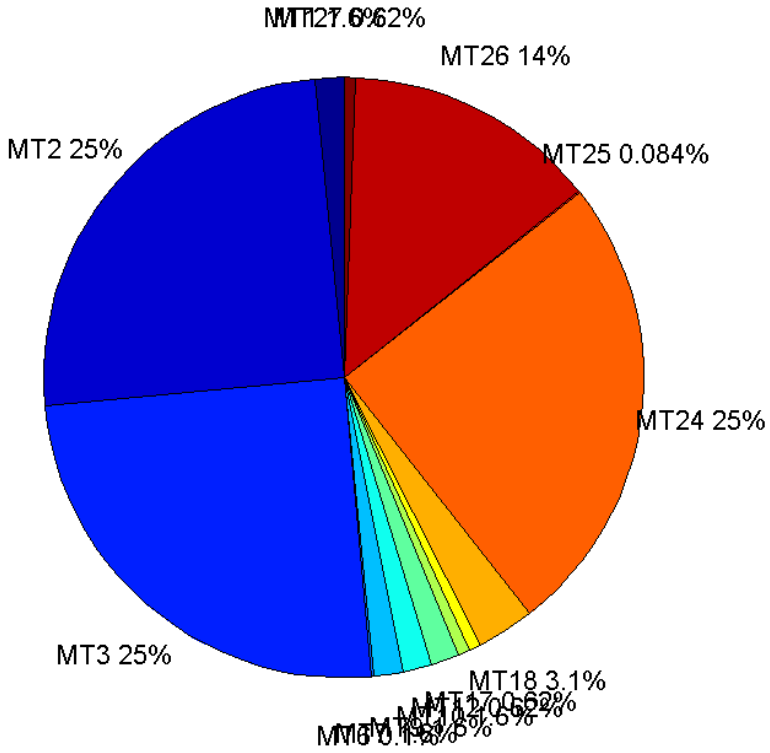
| | | |
|---|---|---|
| **MT 12** | 193 | 0.622581 |
| **MT 17** | 193 | 0.622581 |
| **MT 18** | 965 | 3.1129 |
| **MT 24** | 7740 | 24.9677 |
| **MT 25** | 26 | 0.083871 |
| **MT 26** | 4249 | 13.7065 |
| **MT 27** | 193 | 0.622581 |
| **MT 28** | 0 | 0 |
| **MT 62** | 0 | 0 |
| **MT 63** | 0 | 0 |
| **Total** | 31000 | 100 |

**Update intervals :**

| | Minimum [s] | Maximum [s] | Mean value | Exceed Max update | Exceed NPA timeout | Exceed PA timeout |
|---|---|---|---|---|---|---|
| **MT 0** | -- | -- | -- | -- | -- | -- |
| **MT 1** | 64 | 71 | 64.278 | 0 | 0 | 0 |
| **MT 2** | 4 | 8 | 4.0053 | 8 | 0 | 0 |
| **MT 3** | 4 | 8 | 4.00517 | 8 | 0 | 0 |
| **MT 4** | -- | -- | -- | -- | -- | -- |
| **MT 5** | -- | -- | -- | -- | -- | -- |
| **MT 6** | 1 | 14794 | 843.548 | 7 | 7 | 7 |
| **MT 7** | 64 | 71 | 64.2869 | 0 | 0 | 0 |
| **MT 9** | 64 | 71 | 64.2952 | 0 | 0 | 0 |
| **MT 10** | 64 | 72 | 64.2869 | 0 | 0 | 0 |
| **MT 12** | 156 | 169 | 160.531 | 192 | 0 | 0 |
| **MT 17** | 156 | 169 | 160.51 | 0 | 0 | 0 |
| **MT 18** | 4 | 141 | 32.0062 | 0 | 0 | 0 |
| **MT 24** | 4 | 8 | 4.0053 | 0 | 0 | 0 |
| **MT 25** | 40 | 3192 | 1203.08 | 0 | 0 | 0 |
| **MT 26** | 4 | 31 | 7.2952 | 0 | 0 | 0 |
| **MT 27** | 156 | 173 | 160.531 | 0 | 0 | 0 |
| **MT 28** | -- | -- | -- | -- | -- | -- |
| **MT 62** | -- | -- | -- | -- | -- | -- |
| **MT 63** | -- | -- | -- | -- | -- | -- |

---

**Message Distribution PRN 136:**




## Parameters

### System

| Name | Section | Value |
|---|---|---|
| **Name** | System | Convertor |
| **Version** | System | 4.3 |
| **Inputfile** | System | D:/PegasusDateJob/job/2016_04_20_EGNOS/01_User/01_User |
| **Outputfile** | System | D:/PegasusDateJob/job/2016_04_20_EGNOS/02_Convertor/02_Convertor |

### Configuration

| Name | Section | Value |
|---|---|---|
| **Receiver** | Configuration | Novatel OEM4 |
| **Leap_Seconds** | Configuration | 17 |
| **Correction_mode** | Configuration | SBAS MODE 0/2 |
| **Dual_Frequency** | Configuration | no |

## Position Domain

**start:** 04:51:06 20.04.2016 ( week: 1893 sec: 276666 )
**end:** 13:27:45 20.04.2016 ( week: 1893 sec: 307665 )
**duration:** 08:36:40 ..

## quality

**valid samples** 30639
**total samples** 31000

## Event tables

| | |
|---|---|
| **Position discontinuity events type** | all |
| **APV-I discontinuity events type** | long |
| **APV-35m discontinuity events type** | long |
| **LPV-200 discontinuity events type** | long |
| **CAT-I discontinuity events type** | all |

**extremes :**

| | Epoch | HPE | HPL | HPE/HPL | VPE | VPL | VPE/VPL |
|---|---|---|---|---|---|---|---|
| **max normHor** | 301484 | 1.6756 | 9.60676 | 0.174419 | 1.10316 | 18.3596 | 0.0600861 |
| **max normVer** | 295239 | 1.22404 | 9.18718 | 0.133234 | 1.87694 | 12.6455 | 0.148428 |
| **max HPE** | 287560 | 14.0907 | 487.768 | 0.0288882 | 5.79254 | 139.969 | 0.0413845 |
| **max VPE** | 287560 | 14.0907 | 487.768 | 0.0288882 | 5.79254 | 139.969 | 0.0413845 |
| **min HPL** | 280056 | 0.872268 | 8.08384 | 0.107903 | -0.625746 | 13.2488 | 0.0472304 |
| **min VPL** | 295365 | 1.02185 | 8.63469 | 0.118343 | 1.36743 | 11.9191 | 0.114726 |

**Position discontinuity events :**

| # | Epoch | duration | stable period |
|---|---|---|---|
| 1 | 277286 | 393 | 200 |
| 2 | 277953 | 30 | 274 |
| 3 | 298024 | 21 | 20041 |
| 4 | 302634 | 29 | 4589 |

**APV-I discontinuity events :**

| # | Epoch | duration | stable period |
|---|---|---|---|
| 1 | 277286 | 393 | 200 |
| 2 | 277766 | 8 | 8 |
| 3 | 277820 | 163 | 1 |
| 4 | 287055 | 508 | 1 |
| 5 | 298024 | 25 | 10461 |
| 6 | 301683 | 80 | 3634 |
| 7 | 302351 | 4 | 2 |
| 8 | 302551 | 112 | 196 |
| 9 | 305843 | 121 | 3180 |

**APV-35m discontinuity events :**

| # | Epoch | duration | stable period |
|---|---|---|---|
| 1 | 277255 | 1012 | 3 |
| 2 | 287055 | 508 | 1 |
| 3 | 298024 | 25 | 10461 |
| 4 | 301683 | 80 | 3634 |
| 5 | 302351 | 4 | 2 |
| 6 | 302551 | 112 | 196 |
| 7 | 305843 | 121 | 3180 |

**LPV-200 discontinuity events :**

| # | Epoch | duration | stable period |
|---|---|---|---|
| 1 | 277255 | 1012 | 3 |
| 2 | 287055 | 508 | 1 |
| 3 | 298024 | 25 | 10461 |
| 4 | 301683 | 80 | 3634 |
| 5 | 302351 | 4 | 2 |
| 6 | 302551 | 112 | 196 |
| 7 | 305843 | 121 | 3180 |

**CAT-I discontinuity events :**

| # | Epoch | duration | stable period |
|---|---|---|---|
| 1 | 295352 | 4 | 0 |
| 2 | 295357 | 3 | 1 |
| 3 | 295361 | 3 | 1 |
| 4 | 295365 | 4 | 1 |
| 5 | 295372 | 1 | 3 |
| 6 | 295376 | 1 | 3 |
| 7 | 295380 | 937 | 3 |
| 8 | 296318 | 3 | 1 |

## First Glance analysis

| | |
|---|---|
| **Duration** | 31000 |
| **Number of Samples** | 31000 |
| **Number of invalid sample** | 361 |
| **Number of no position solution samples** | 532 |
| **Number of missing sample** | 0 |
| **Logging Loss** | 0 |
| **Processing Loss** | 1.1645 |
| **Number of Misleading Information** | 0 |
| **Data gaps** | 0 |
| **Discontinuities** | 4 |

**Number of Samples :**

| Valid | APV-1 | LPV-200 | CAT-1 | APV-35m |
|---|---|---|---|---|
| 30107 | 29101 | 28697 | 15 | 28697 |

**Accuracy statistics :**

| | Valid | APV-1 | LPV-200 | CAT-1 | APV-35m |
|---|---|---|---|---|---|
| **HPE 95%** | 1.85916 | 1.55146 | 1.55459 | 1.0984 | 1.55459 |
| **HPEscale 95%** | NaN | 5.42408 | 5.43217 | 5.06364 | 5.43217 |
| **VPE 95%** | 1.48266 | 1.39145 | 1.3935 | 1.42142 | 1.3935 |
| **VPEscale 95%** | NaN | 3.96435 | 2.78162 | 1.42839 | 2.78162 |

**Availability :**

| | Valid | APV-1 | LPV-200 | CAT-1 | APV-35m |
|---|---|---|---|---|---|
| **Signal in Space** | 0.982637 | 0.949803 | 0.936617 | 0.000489572 | 0.936617 |
| **measurements** | 0.971194 | 0.938742 | 0.92571 | 0.000483871 | 0.92571 |

| | | | | | |
|---|---|---|---|---|---|
| **Operational** | 0.971194 | 0.938742 | 0.92571 | 0.000483871 | 0.92571 |

**Discontinuity events :**

| | Valid | APV-1 | LPV-200 | CAT-1 | APV-35m |
|---|---|---|---|---|---|
| **All** | 4 | 46 | 25 | 8 | 25 |
| **Long** | 4 | 9 | 7 | 3 | 7 |
| **Independent** | 4 | 5 | 4 | 0 | 4 |
| **P(disc.)** | 0.00199289 | 0.00257723 | 0.00209081 | 0 | 0.00209081 |
| **P(slide)** | 0.00199289 | 0.00659771 | 0.00529672 | 0.866667 | 0.00529672 |

**Integrity events :**

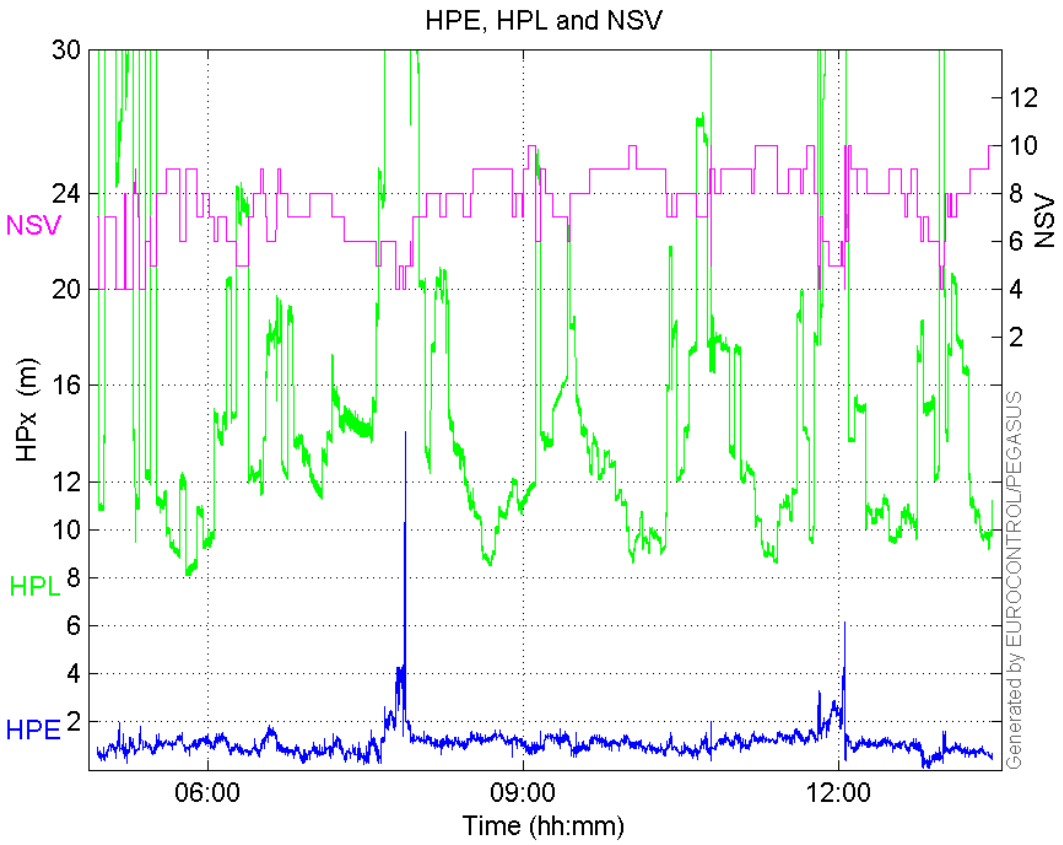
| | MI | HMI APV-1 | HMI LPV-200 | HMI CAT-1 | HMI APV-35m |
|---|---|---|---|---|---|
| **Total** | 0 | 0 | 0 | 0 | 0 |
| **Horizontal** | 0 | 0 | 0 | 0 | 0 |
| **Vertical** | 0 | 0 | 0 | 0 | 0 |

**Performance Summary :**

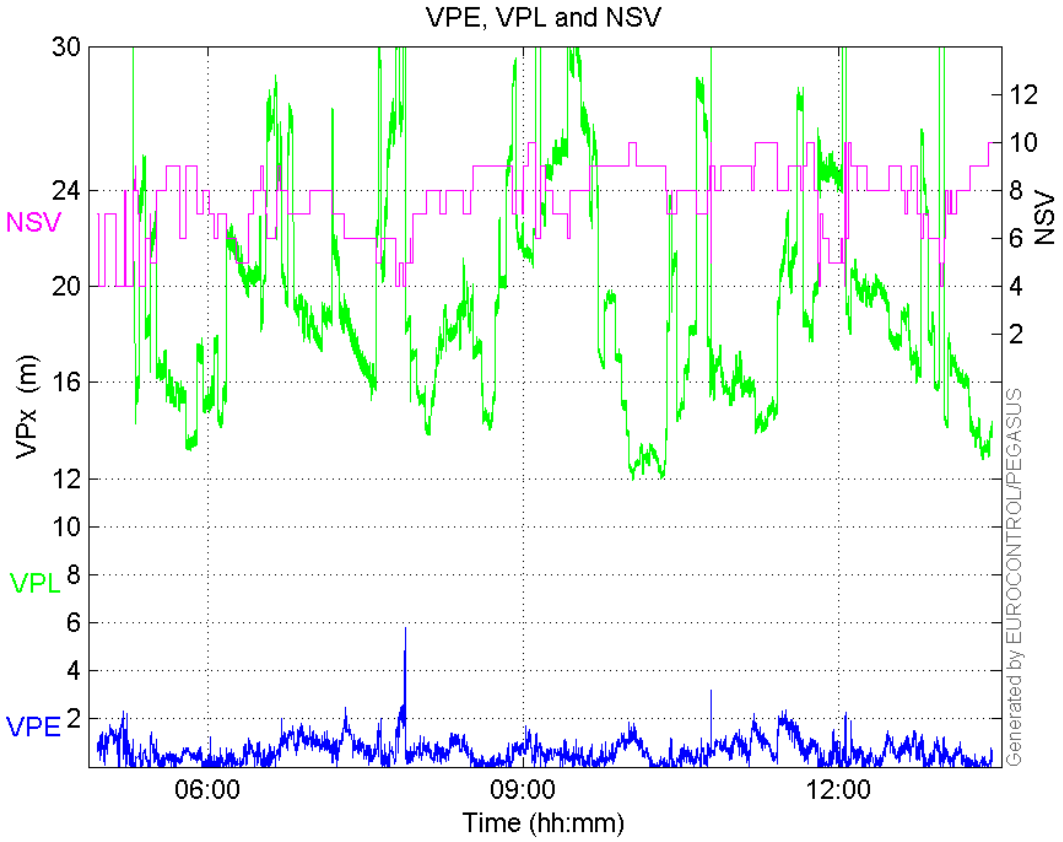
| | Valid | APV-1 | LPV-200 | CAT-1 | APV-35m |
|---|---|---|---|---|---|
| **Samples** | 30107 | 29101 | 28697 | 15 | 28697 |
| **SIS Availability** | 0.982637 | 0.949803 | 0.936617 | 0.000489572 | 0.936617 |
| **Local Availability** | 0.971194 | 0.938742 | 0.92571 | 0.000483871 | 0.92571 |
| **Operational Availability** | 0.971194 | 0.938742 | 0.92571 | 0.000483871 | 0.92571 |
| **HPE 95%** | 1.85916 | 1.55146 | 1.55459 | 1.0984 | 1.55459 |
| **HPEscale 95%** | NaN | 5.42408 | 5.43217 | 5.06364 | 5.43217 |
| **VPE 95%** | 1.48266 | 1.39145 | 1.3935 | 1.42142 | 1.3935 |
| **VPEscale 95%** | NaN | 3.96435 | 2.78162 | 1.42839 | 2.78162 |
| **All Discontinuity Events** | 4 | 46 | 25 | 8 | 25 |
| **Long Discontinuity Events** | 4 | 9 | 7 | 3 | 7 |
| **Independent Discontinuity Events** | 4 | 5 | 4 | 0 | 4 |
| **P(discontinuity)** | 0.00199289 | 0.00257723 | 0.00209081 | 0 | 0.00209081 |
| **P(sliding window)** | 0.00199289 | 0.00659771 | 0.00529672 | 0.866667 | 0.00529672 |
| **All Integrity Events** | 0 | 0 | 0 | 0 | 0 |
| **Horizontal Integrity Events** | 0 | 0 | 0 | 0 | 0 |
| **Vertical Integrity Events** | 0 | 0 | 0 | 0 | 0 |

## Time Series

**HPE, HPL and NSV:**

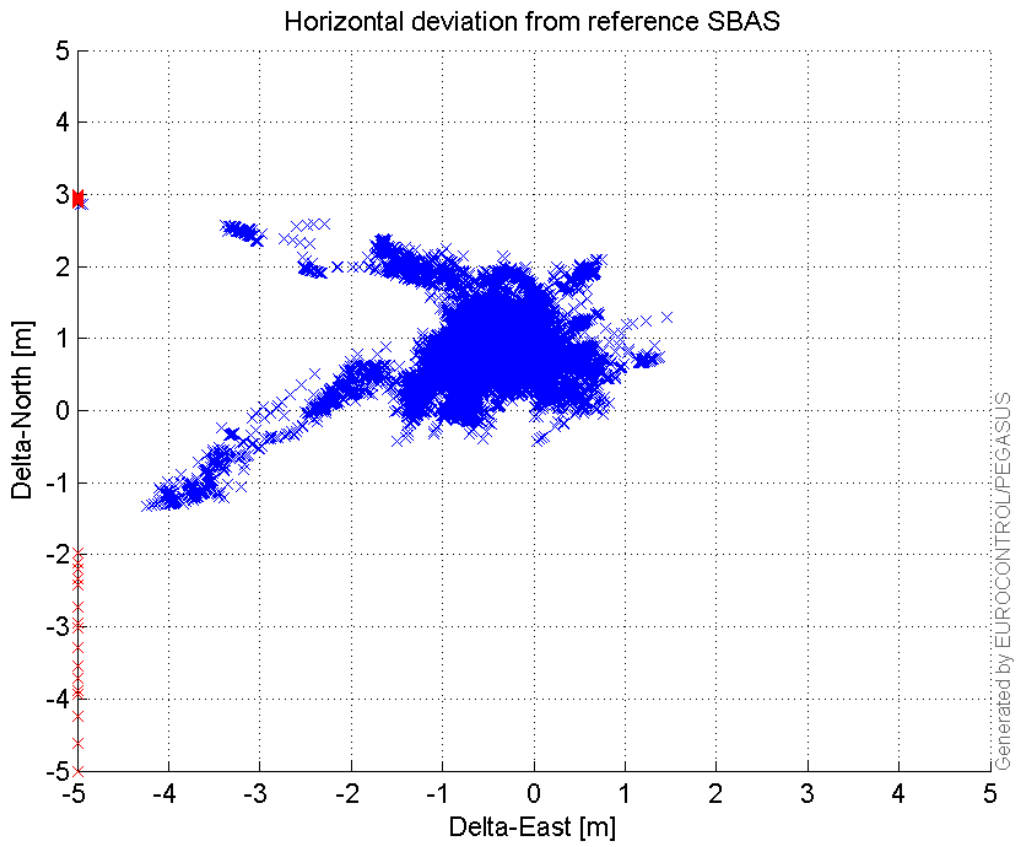



**VPE, VPL and NSV:**



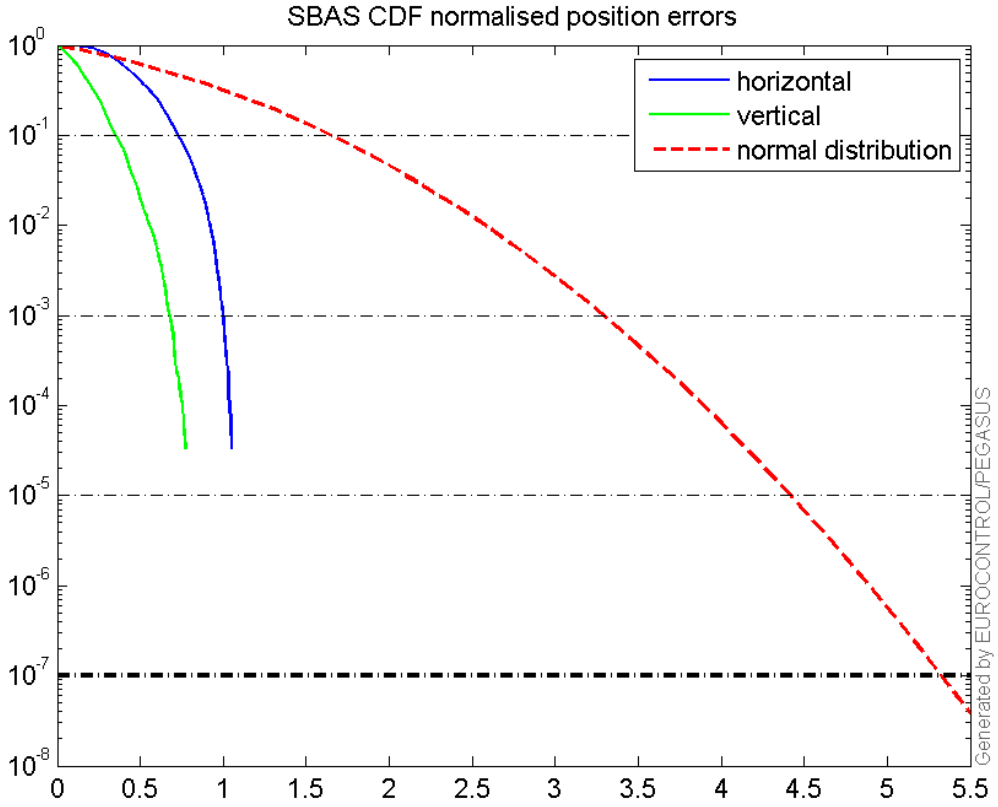

## Horizontal deviation

**Horizontal deviation from reference SBAS:**




## CDF position

**SBAS CDF position domain:**



## Statistics

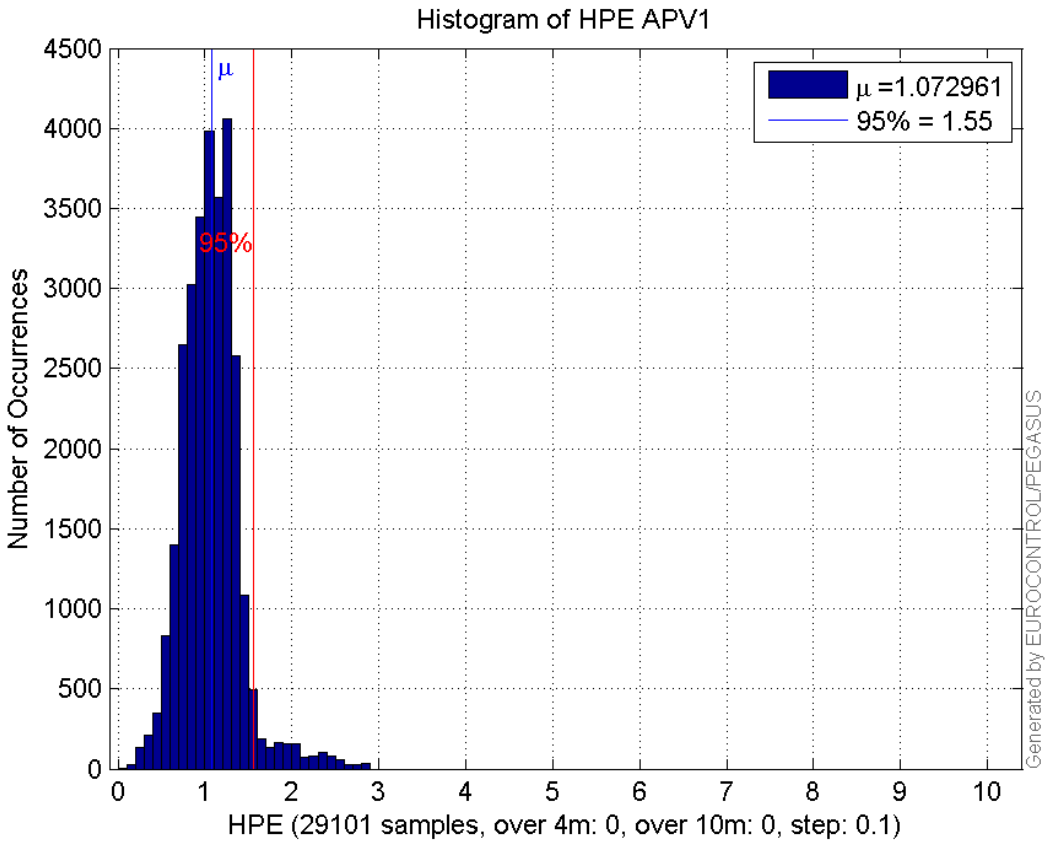
| | |
|---|---|
| **number** | 29101 |
| **sum** | 31224.242 |
| **sum2** | 36782.931 |
| **prctile95** | 1.5514561 |
| **prctile99** | 2.327421 |
| **number** | 29101 |
| **sum** | 17608.521 |
| **sum2** | 15777.926 |
| **prctile95** | 1.3914468 |
| **prctile99** | 1.8420115 |
| **number** | 29101 |
| **sum** | 441632.73 |
| **sum2** | 7931703.2 |
| **prctile95** | 31.71838 |
| **prctile99** | 37.658575 |
| **number** | 29101 |
| **sum** | 566266.99 |
| **sum2** | 11789665 |
| **prctile95** | 28.568825 |
| **prctile99** | 38.769372 |
| **number** | 29101 |
| **sum** | 2296.0944 |
| **sum2** | 209.68064 |
| **prctile95** | 0.13560207 |
| **prctile99** | 0.15376278 |
| **number** | 29101 |
| **sum** | 952.90881 |
| **sum2** | 48.024946 |
| **prctile95** | 0.079286952 |
| **prctile99** | 0.10510847 |
| **number** | 28697 |
| **sum** | 30855.071 |
| **sum2** | 36421.065 |
| **prctile95** | 1.554593 |
| **prctile99** | 2.3313107 |
| **number** | 28697 |
| **sum** | 17375.552 |
| **sum2** | 15590.415 |
| **prctile95** | 1.3934979 |
| **prctile99** | 1.842159 |
| **number** | 28697 |
| **sum** | 430245.78 |
| **sum2** | 7597358.5 |
| **prctile95** | 31.084605 |
| **prctile99** | 37.680473 |
| **number** | 28697 |
| **sum** | 549366.72 |
| **sum2** | 11075614 |
| **prctile95** | 27.797255 |

| | |
|---|---|
| **prctile99** | 30.775784 |
| **number** | 28697 |
| **sum** | 2282.7412 |
| **sum2** | 209.21206 |
| **prctile95** | 0.13580425 |
| **prctile99** | 0.15384039 |
| **number** | 28697 |
| **sum** | 947.22168 |
| **sum2** | 47.911069 |
| **prctile95** | 0.079474736 |
| **prctile99** | 0.10515254 |

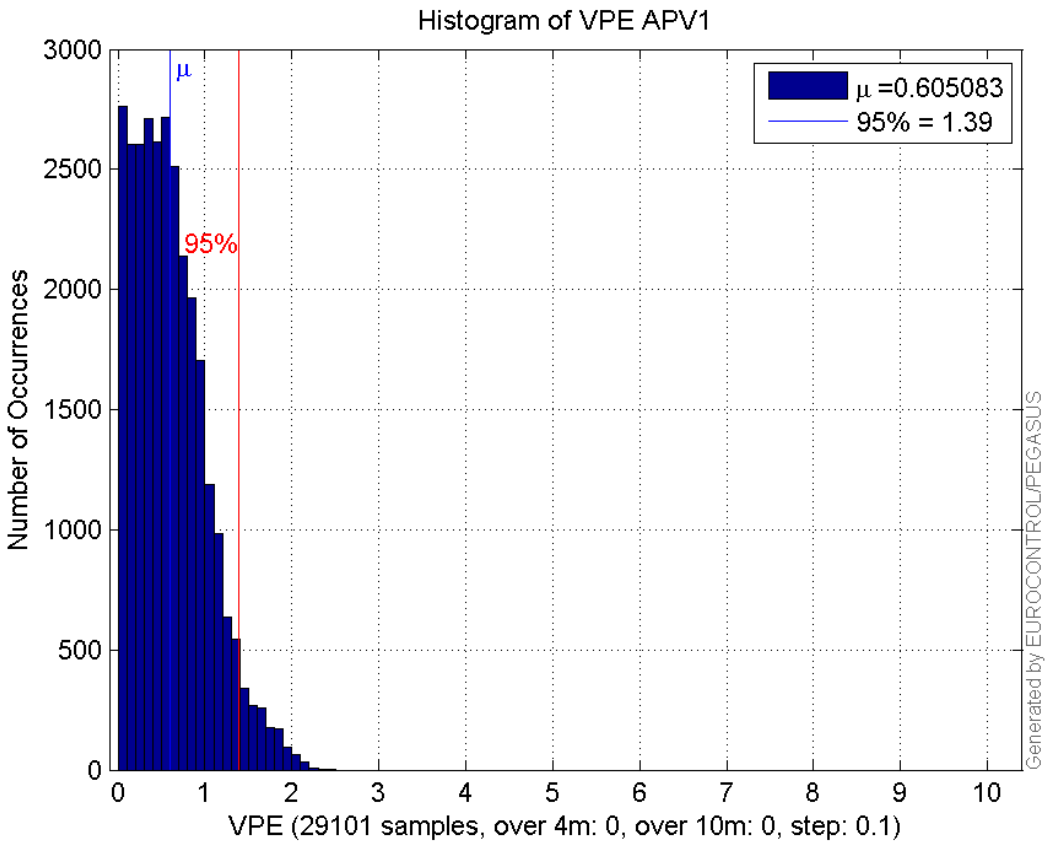
**Error and XPL Statistics :**

| | Mean Value | Standard Deviation | 50% Value | 95% Value | 99% Value | RMS Value |
|---|---|---|---|---|---|---|
| **HPE** | 1.07296 | 0.335757 | 1.06478 | 1.55146 | 2.32742 | 1.12427 |
| **HPL** | 15.1759 | 6.50019 | 13.2668 | 31.7184 | 37.6586 | 16.5093 |
| **VPE** | 0.605083 | 0.419594 | 0.547686 | 1.39145 | 1.84201 | 0.736327 |
| **VPL** | 19.4587 | 5.14684 | 18.3701 | 28.5688 | 38.7694 | 20.1278 |

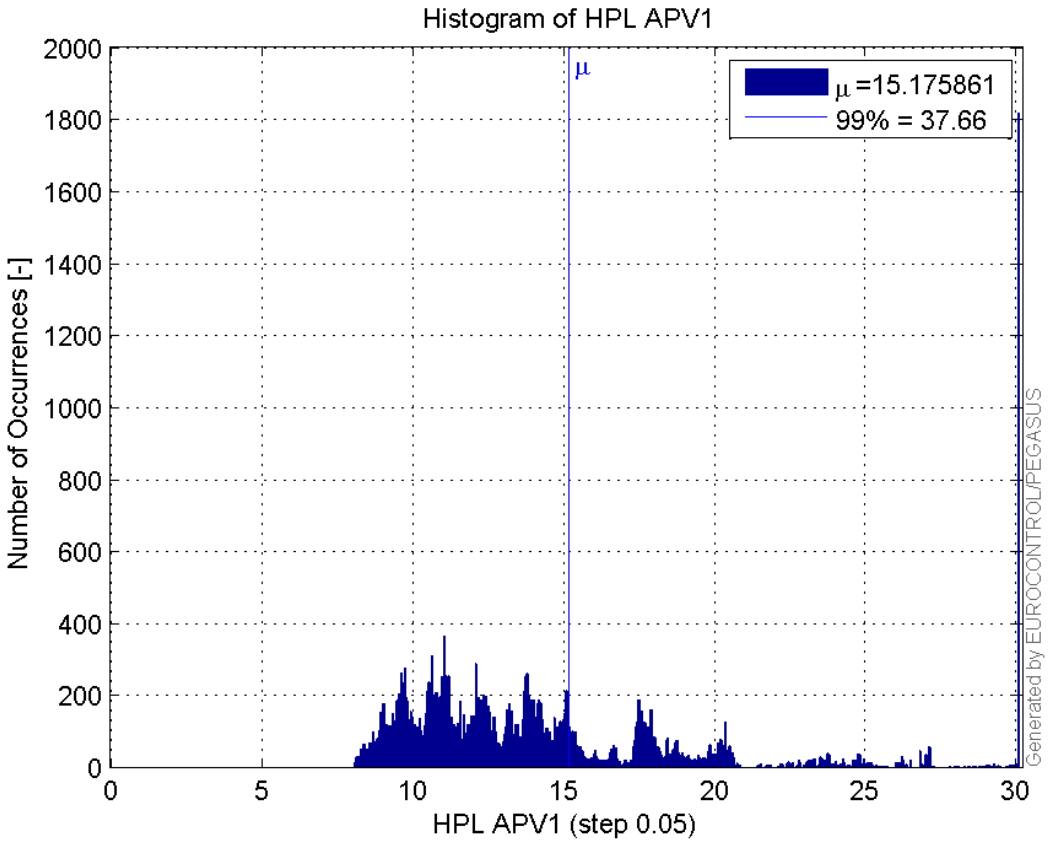
**Histogram of HPE APV1:**



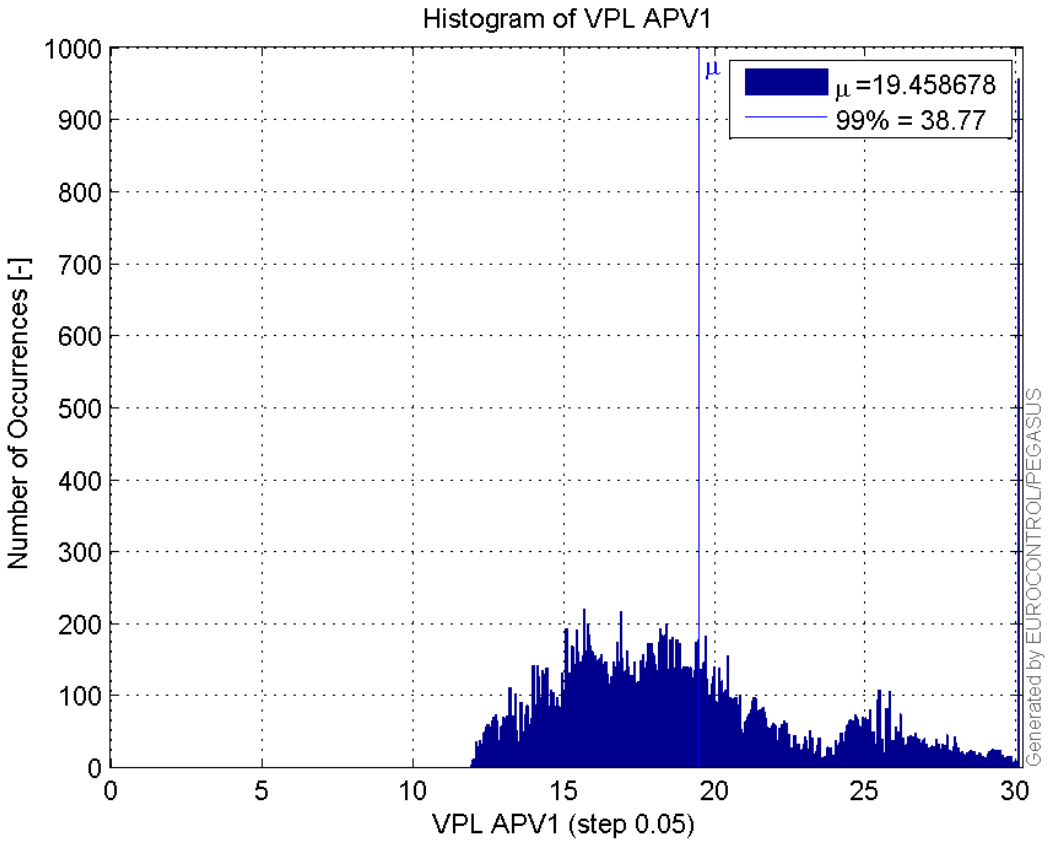

**Histogram of VPE APV1:**



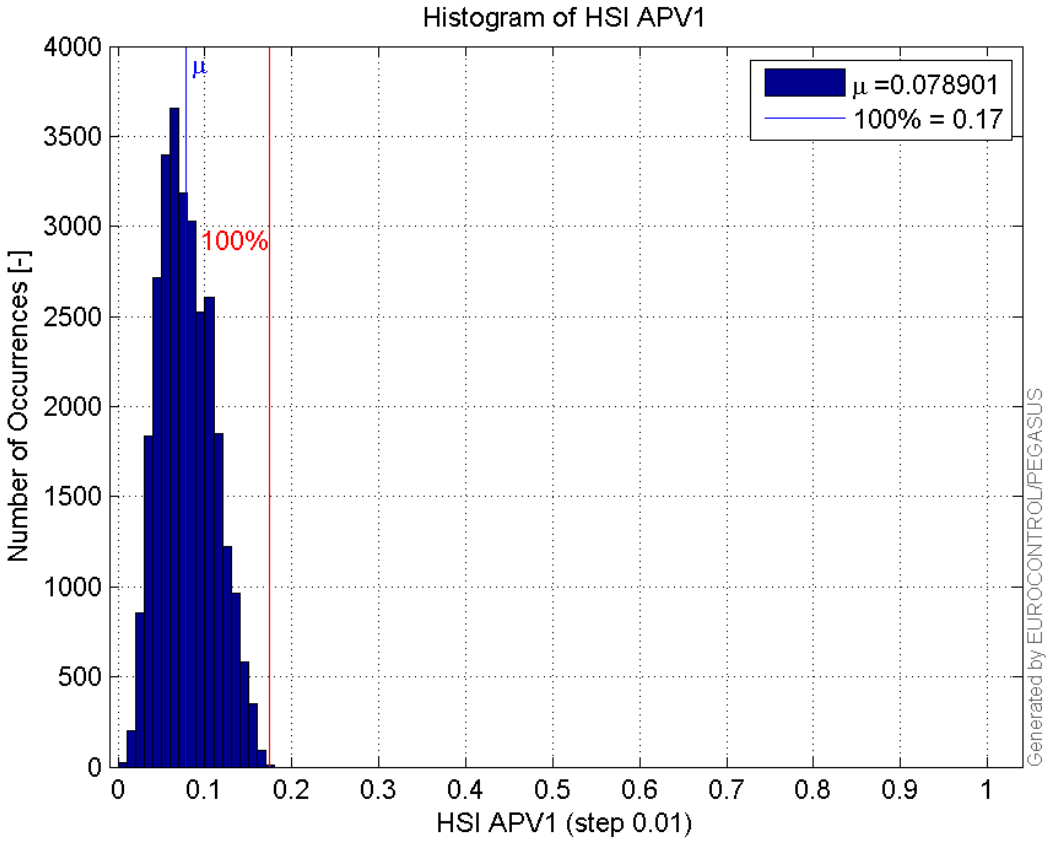

**Histogram of HPL APV1:**



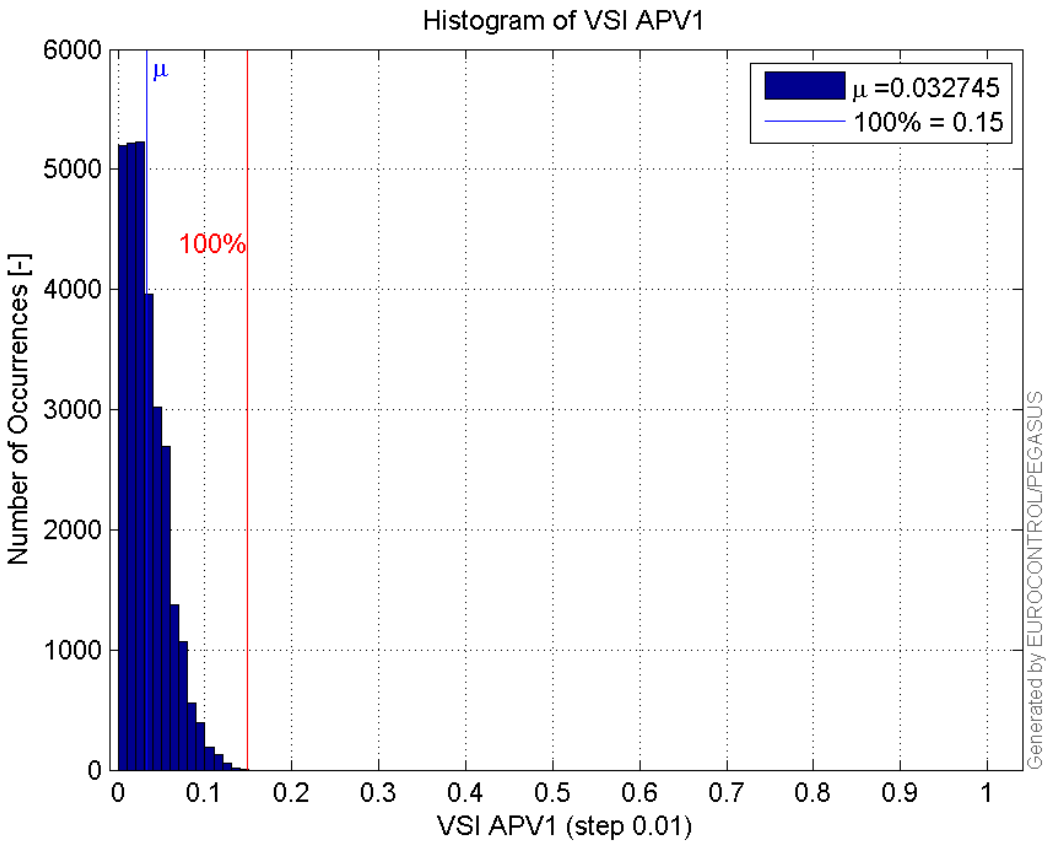

**Histogram of VPL APV1:**



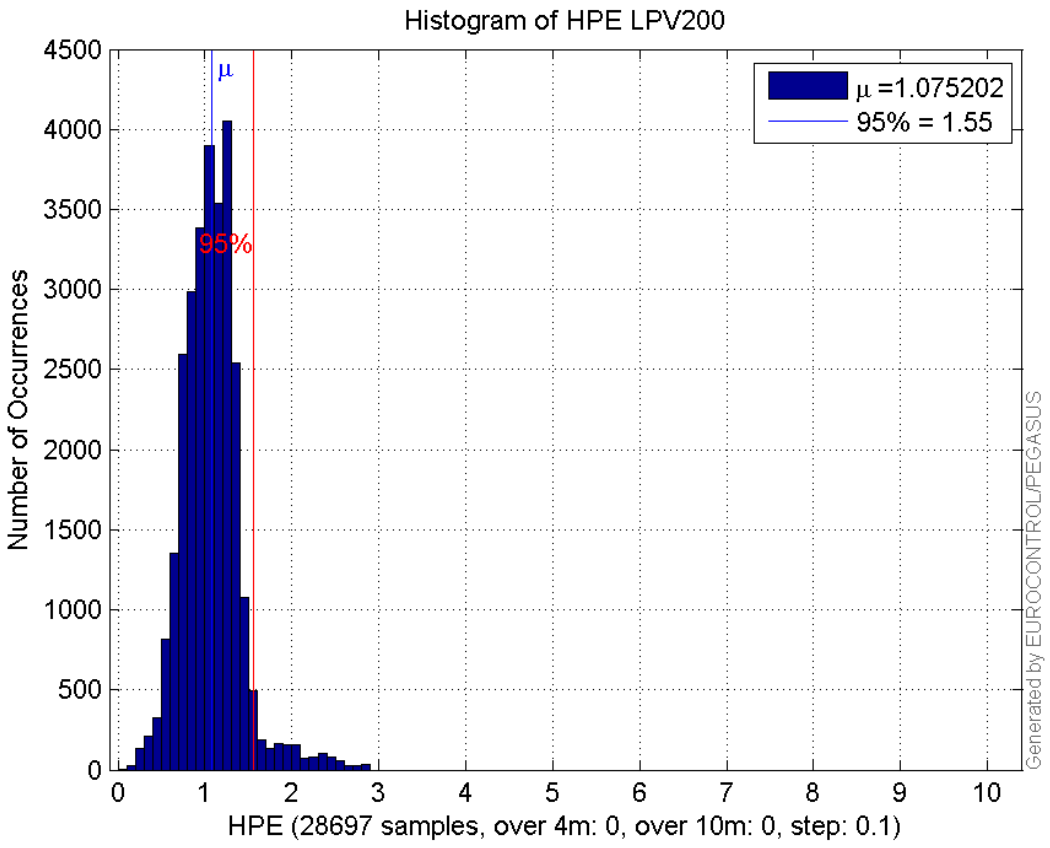

**Histogram of HSI APV1:**



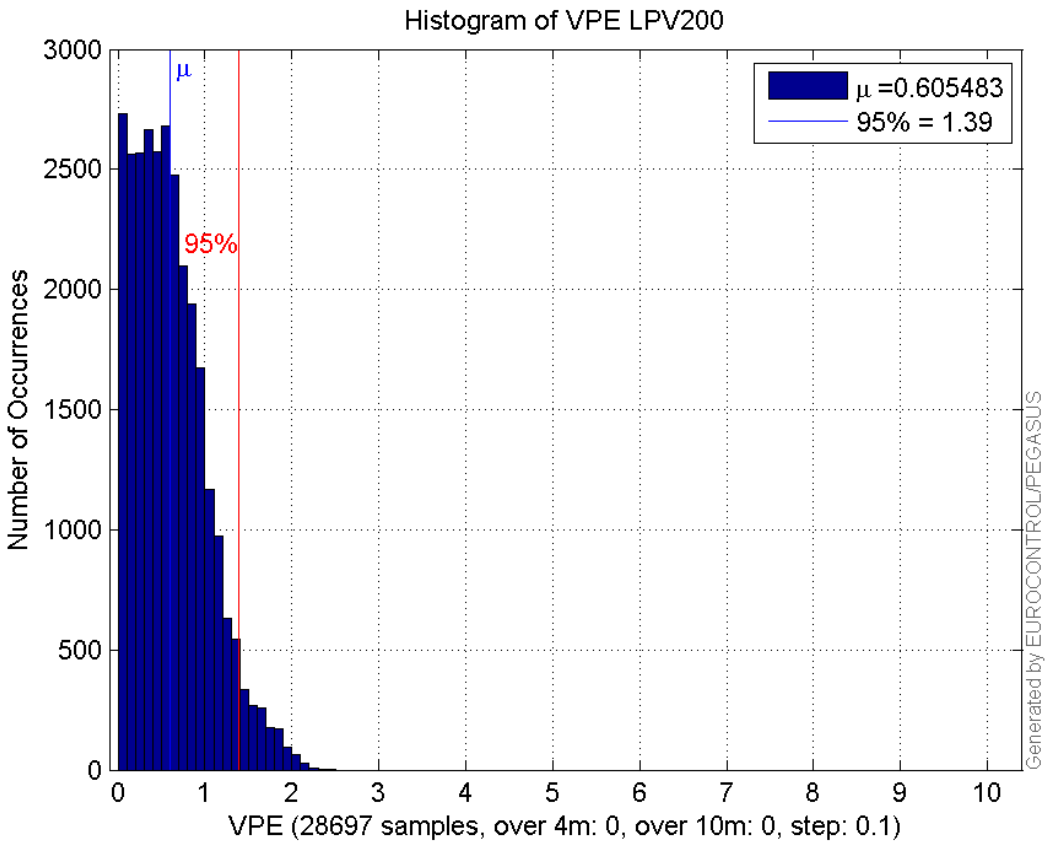

**Histogram of VSI APV1:**



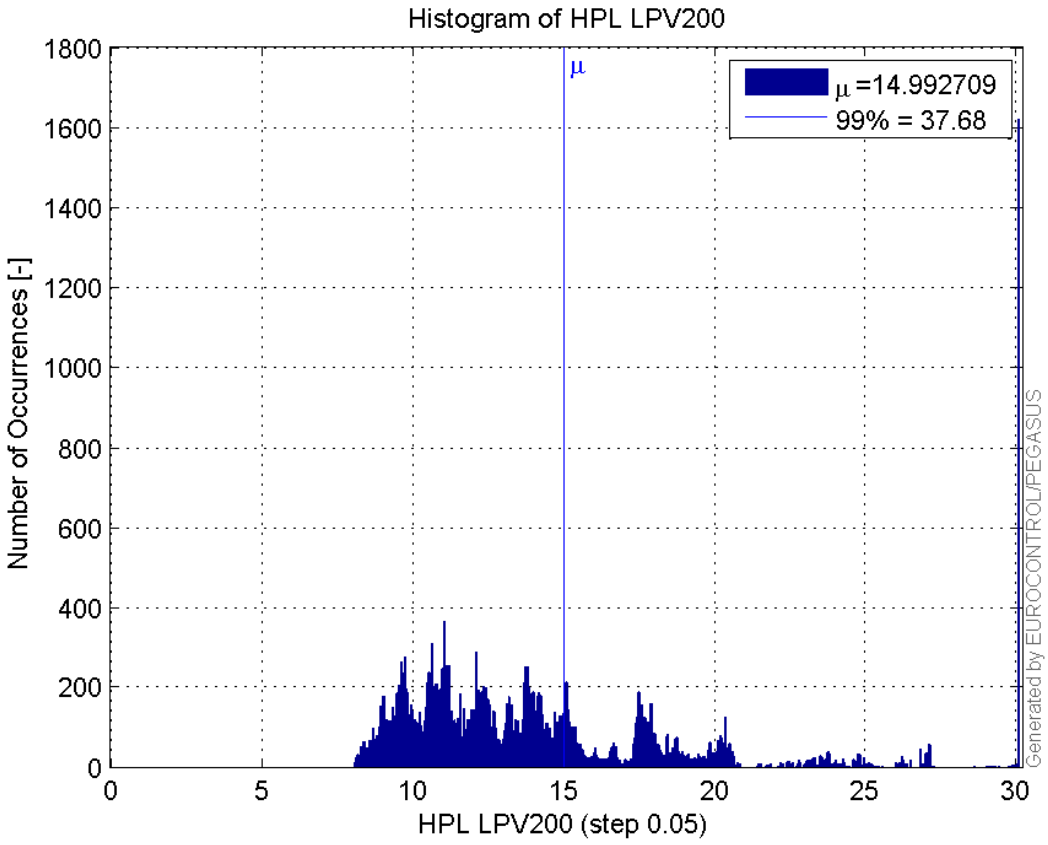

**Histogram of HPE LPV200:**



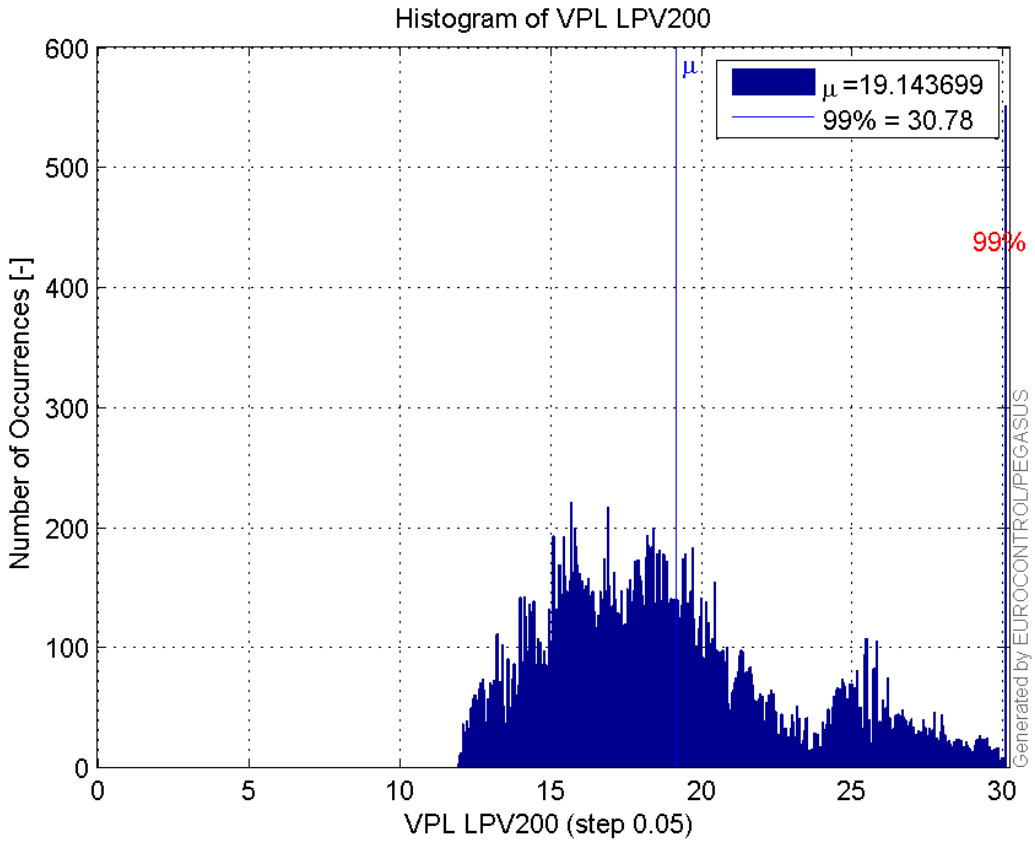

**Histogram of VPE LPV200:**



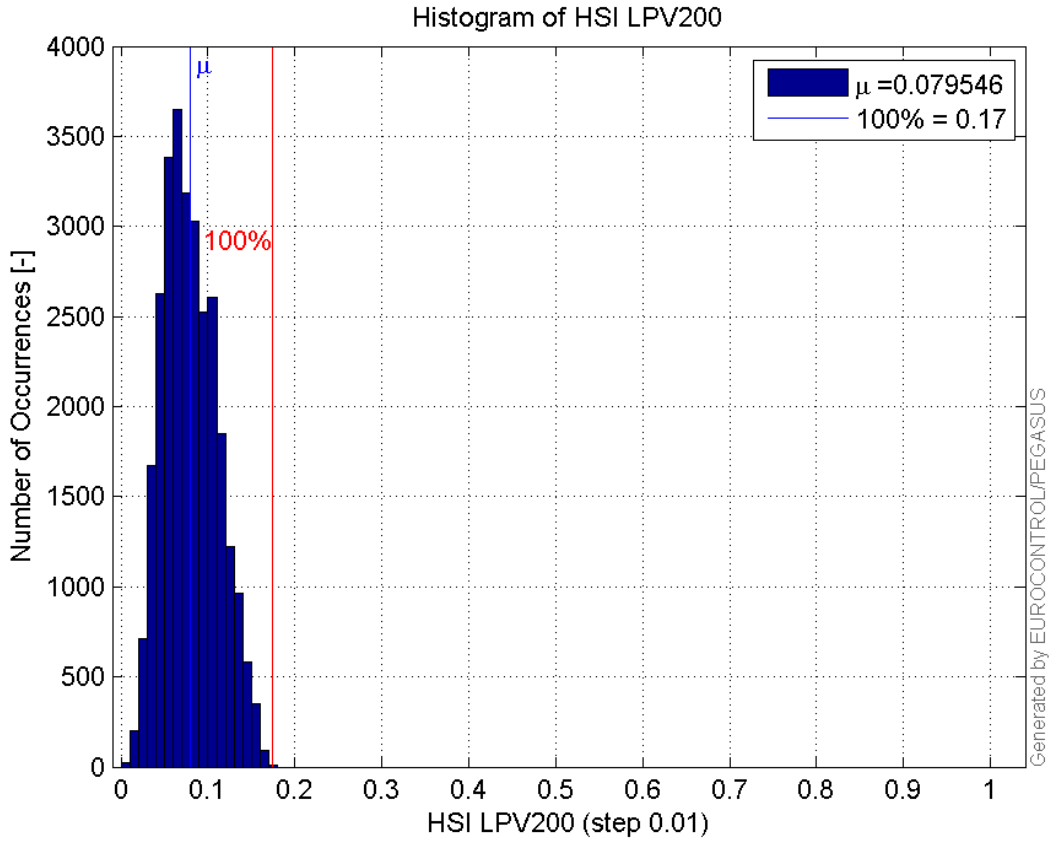

**Histogram of HPL LPV200:**



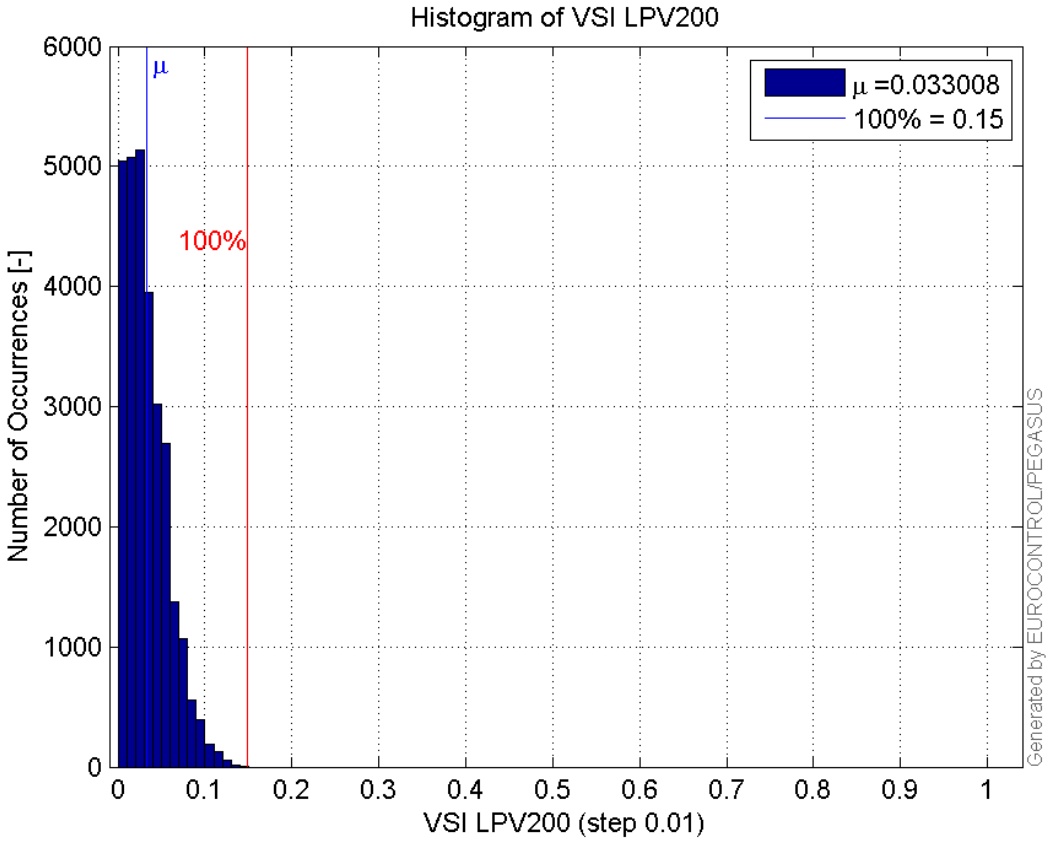

**Histogram of VPL LPV200:**




**Histogram of HSI LPV200:**

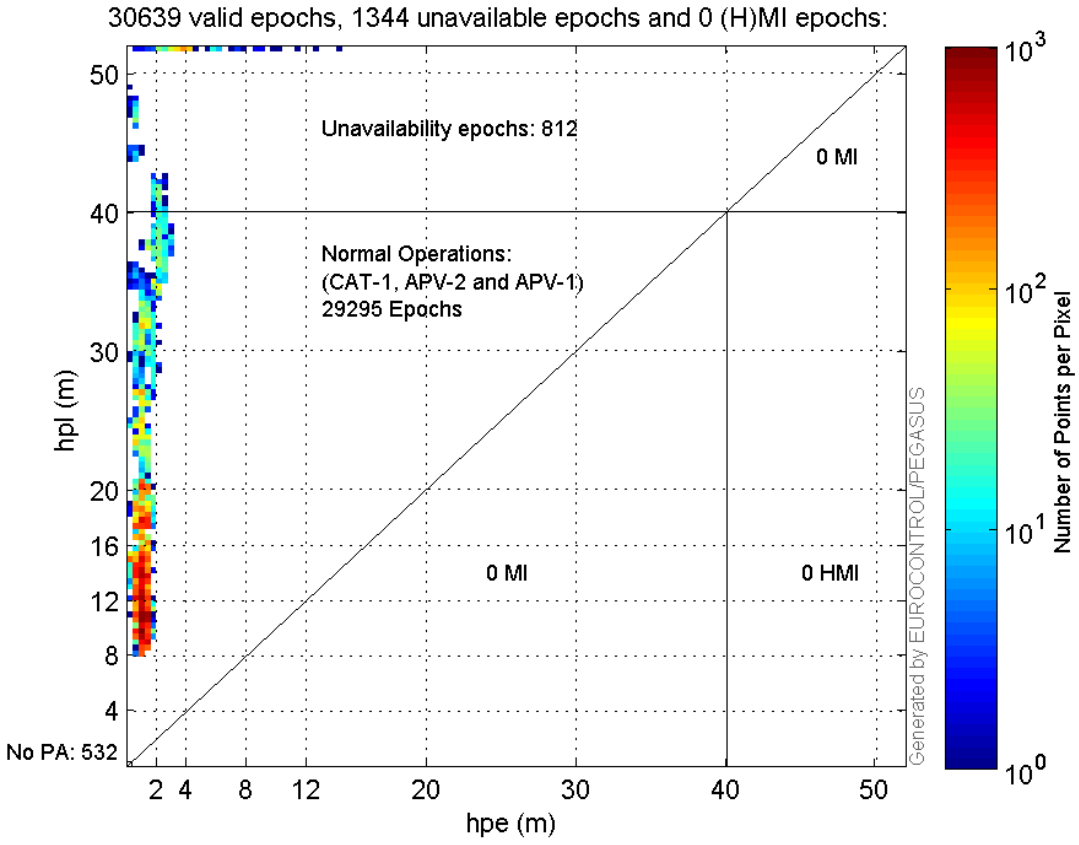



**Histogram of VSI LPV200:**

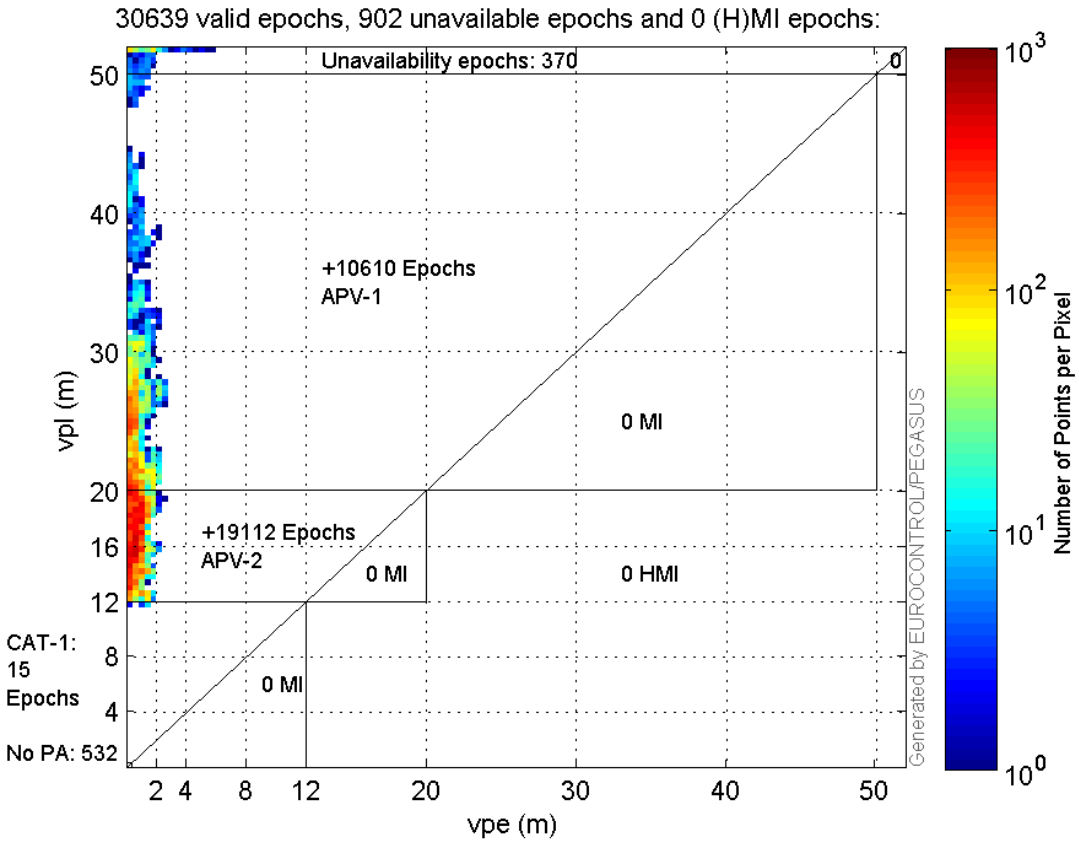



## Stanford Plots

**Horizontal_Stanford_Plot_SBAS:**



**Vertical_Stanford_Plot_SBAS:**




## Parameters

### system

| Name | Section | Value |
|---|---|---|
| **name** | system | GNSS_Solution |
| **version** | system | 4.8.4.0 |
| **input_prefix** | system | D:/PegasusDateJob/job/2016_04_20_EGNOS/02_Convertor/02_Convertor |
| **output_prefix** | system | D:/PegasusDateJob/job/2016_04_20_EGNOS/03_GNSS_Solution/03_GNSS_Solution_sol |

### settings

| Name | Section | Value |
|---|---|---|
| **ref_lat** | settings | 50.439 |
| **ref_lon** | settings | 30.4297 |
| **ref_alt** | settings | 215.271 |
| **smoothing** | settings | yes |
| **smoothing_constant** | settings | 100 |
| **smoothing_max_gap** | settings | 10 |
| **smoothing_max_divergence** | settings | 3 |
| **min_elevation** | settings | 5 |
| **aad_model** | settings | a |
| **output_range_file** | settings | yes |
| **sbas_prn** | settings | 120 |
| **gnss_mode** | settings | sbas |

### results

| Name | Section | Value |
|---|---|---|
| **init_lat** | results | 50.439 |
| **init_lon** | results | 30.4298 |
| **init_alt** | results | 240.5905 |
| **mi_numbers** | results | 0 |

# Range Domain

**start:** 04:51:06 20.04.2016 ( week: 1893 sec: 276666 )
**end:** 13:27:45 20.04.2016 ( week: 1893 sec: 307665 )
**duration:** 08:36:40 ..

## quality

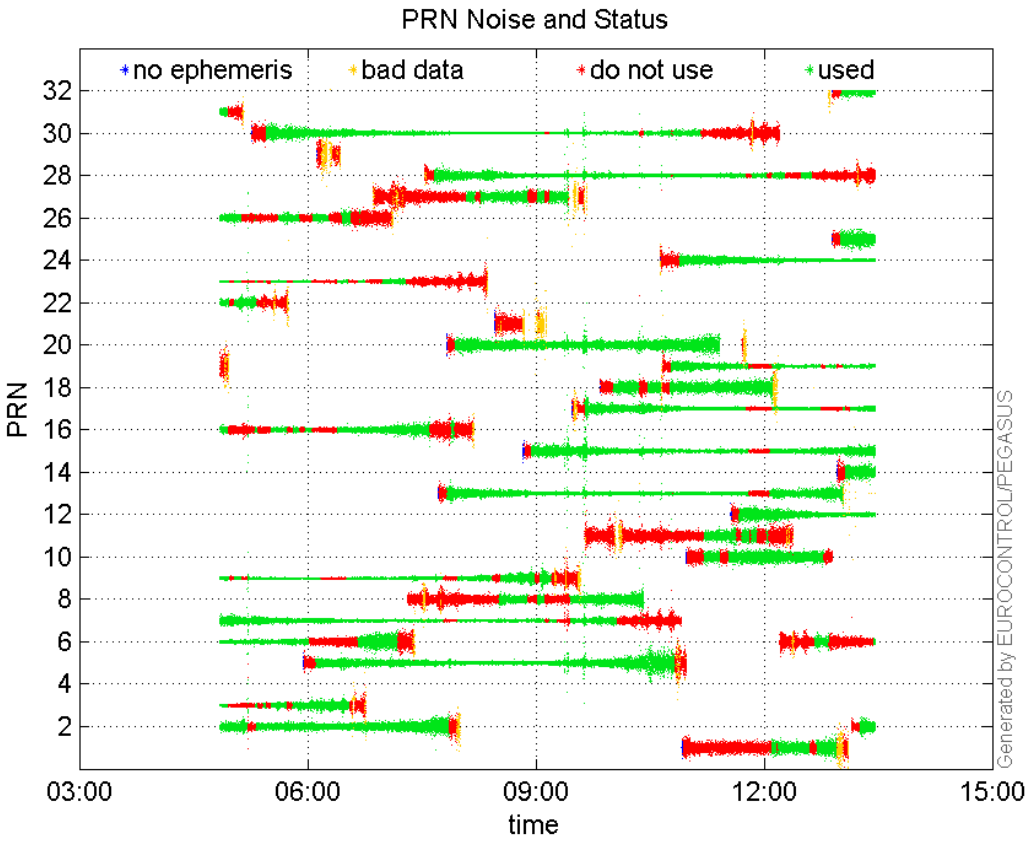
**valid samples** 31000
**total samples** 31000

## PRN overview

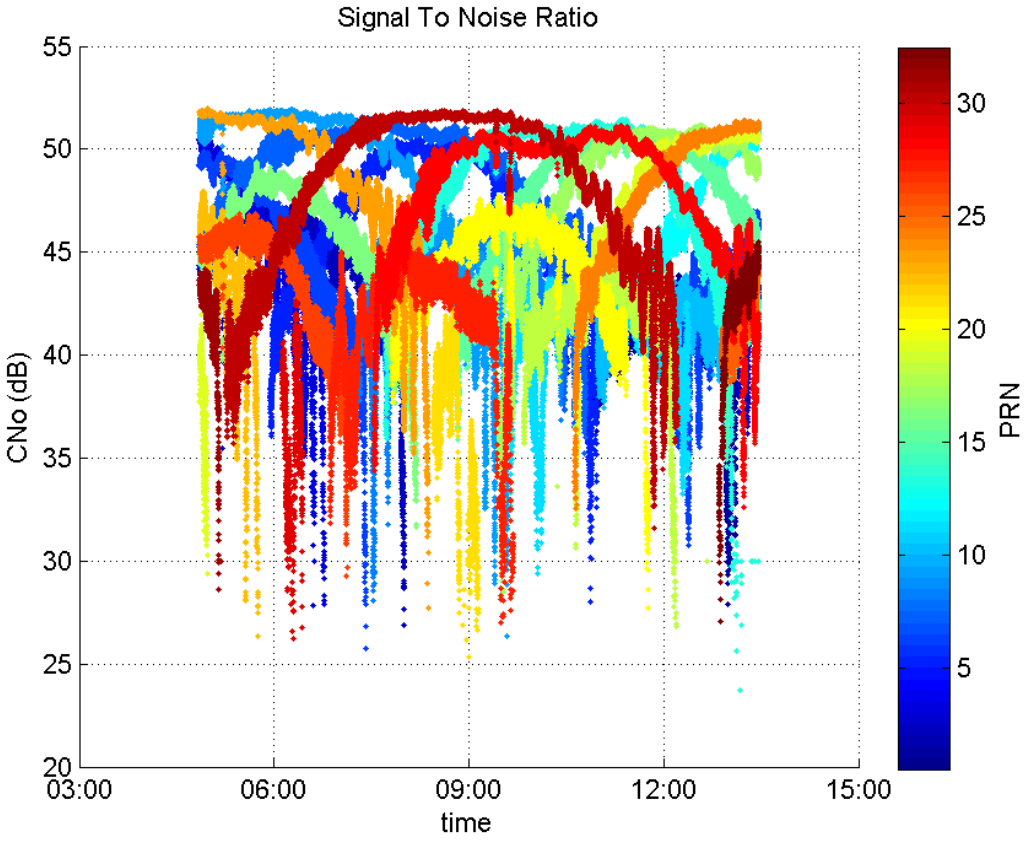
**Number of Visible GPS Satellites** 31
**Number of Visible SBAS Satellites** 2

## signal quality and status

**PRN Noise and Status:**




**Signal To Noise Ratio:**




## range errors

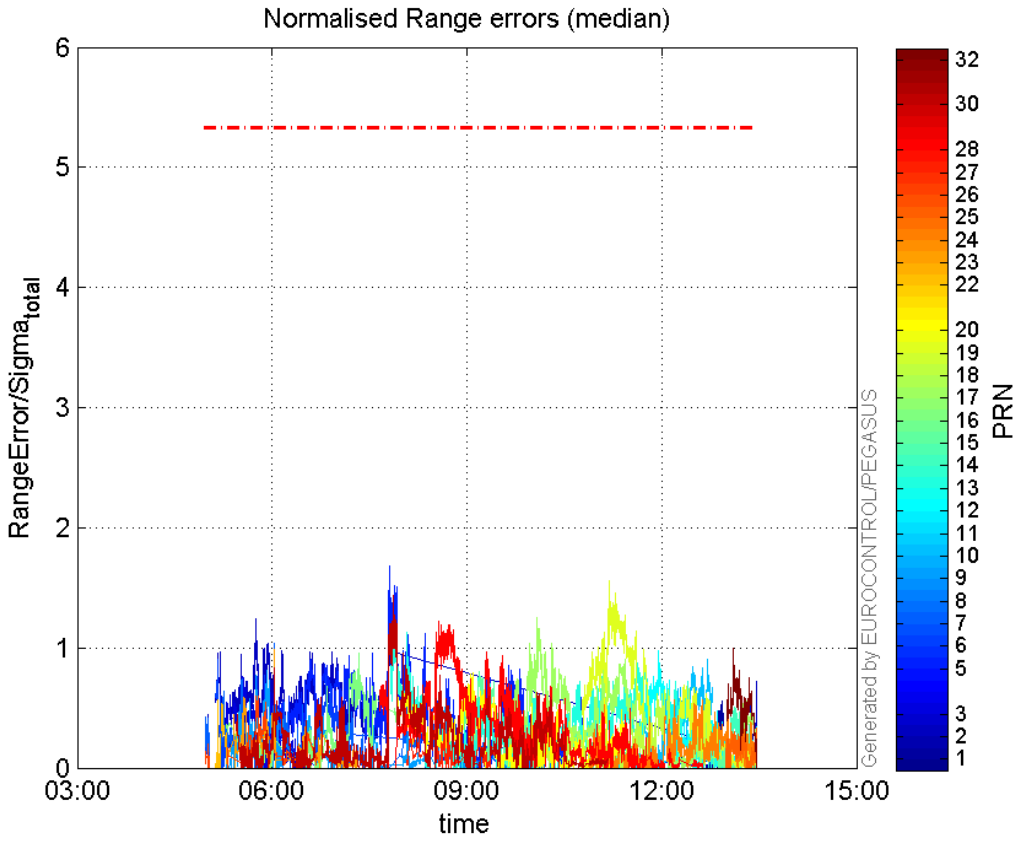
**Number of Overbounding Norm Errors** 0

**Max Norm Errors :**

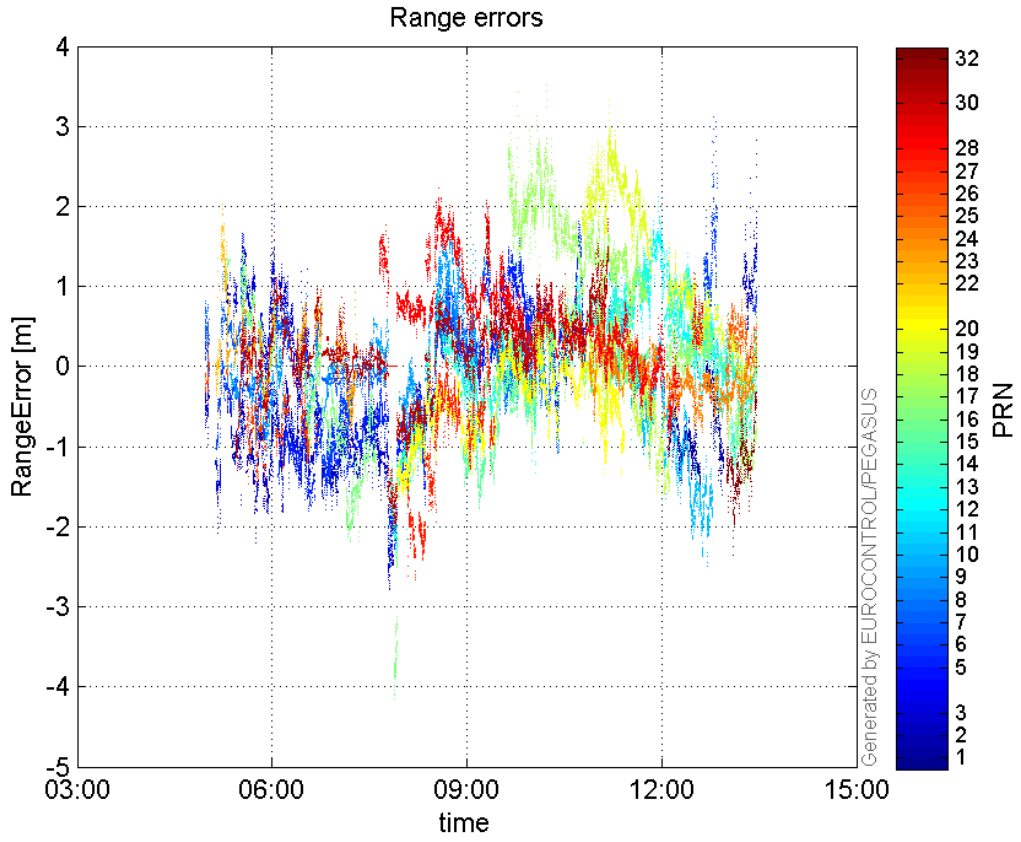
| GPS Week | GPS Second | PRN | Norm Error | Range Error | Sigma |
|---|---|---|---|---|---|
| 1893 | 305758 | 1 | 0.560866 | -1.60308 | 2.85823 |
| 1893 | 279923 | 2 | 1.2394 | -2.20538 | 1.7794 |
| 1893 | 280900 | 3 | 0.832465 | 2.02223 | 2.42921 |
| 1893 | 287324 | 5 | 1.67869 | -2.48876 | 1.48256 |
| 1893 | 277770 | 6 | 0.905771 | -1.42057 | 1.56835 |
| 1893 | 280900 | 7 | 1.03808 | 1.57726 | 1.5194 |
| 1893 | 290465 | 8 | 0.269237 | 1.03895 | 3.85888 |
| 1893 | 280518 | 9 | 0.810366 | -1.1193 | 1.38123 |
| 1893 | 304966 | 10 | 0.906555 | -2.49005 | 2.74672 |
| 1893 | 300336 | 11 | 0.377319 | 1.35095 | 3.58038 |
| 1893 | 302217 | 12 | 0.976066 | 2.12649 | 2.17863 |
| 1893 | 287661 | 13 | 1.18485 | -2.3889 | 2.01621 |
| 1893 | 307008 | 14 | 0.526923 | -1.21585 | 2.30744 |
| 1893 | 292250 | 15 | 0.807257 | -1.77979 | 2.20473 |
| 1893 | 285635 | 16 | 0.960551 | -2.18543 | 2.27518 |
| 1893 | 295493 | 17 | 1.25357 | 3.13537 | 2.50115 |
| 1893 | 302579 | 18 | 0.647685 | -1.58619 | 2.44902 |
| 1893 | 299509 | 19 | 1.55924 | 3.33879 | 2.1413 |
| 1893 | 291917 | 20 | 0.793852 | -1.34453 | 1.69367 |
| 1893 | 277802 | 22 | 0.565362 | -1.60532 | 2.83945 |
| 1893 | 280900 | 23 | 0.989255 | 1.44256 | 1.45823 |

| | | | | | |
|---|---|---|---|---|---|
| 1893 | 303090 | 24 | 0.567401 | -0.85479 | 1.5065 |
| 1893 | 307067 | 25 | 0.415 | 0.968332 | 2.33333 |
| 1893 | 279923 | 26 | 0.600557 | -1.49849 | 2.49517 |
| 1893 | 289869 | 27 | 0.37612 | -1.94463 | 5.17023 |
| 1893 | 290003 | 28 | 1.22478 | 2.23011 | 1.82082 |
| 1893 | 287544 | 30 | 1.43871 | -2.02472 | 1.40732 |
| 1893 | 306383 | 32 | 0.994174 | -2.35308 | 2.36687 |

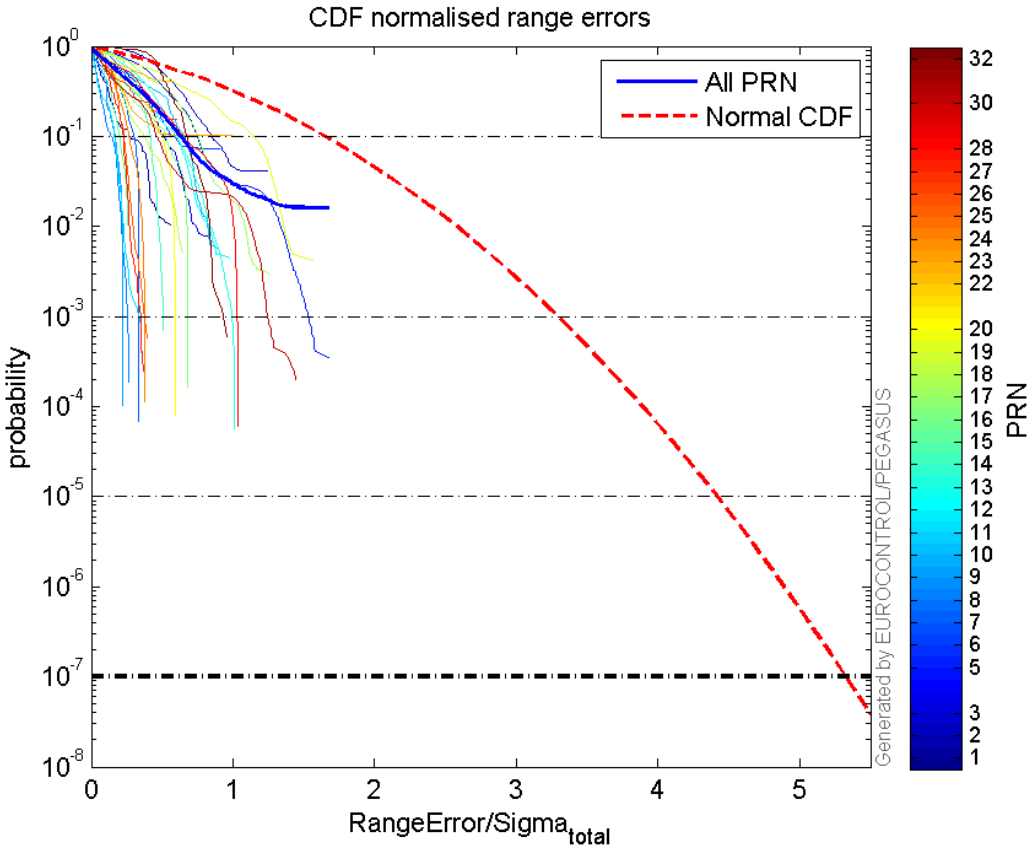
**Normalised Range errors (median):**



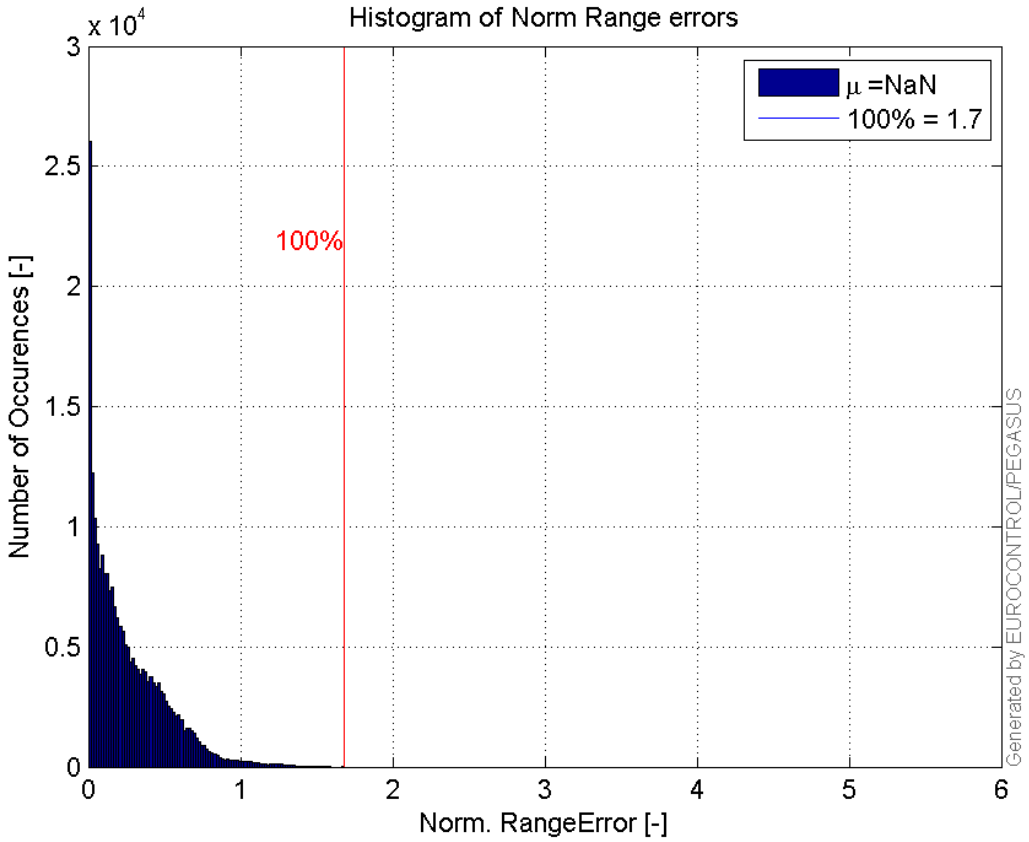

**Range errors:**



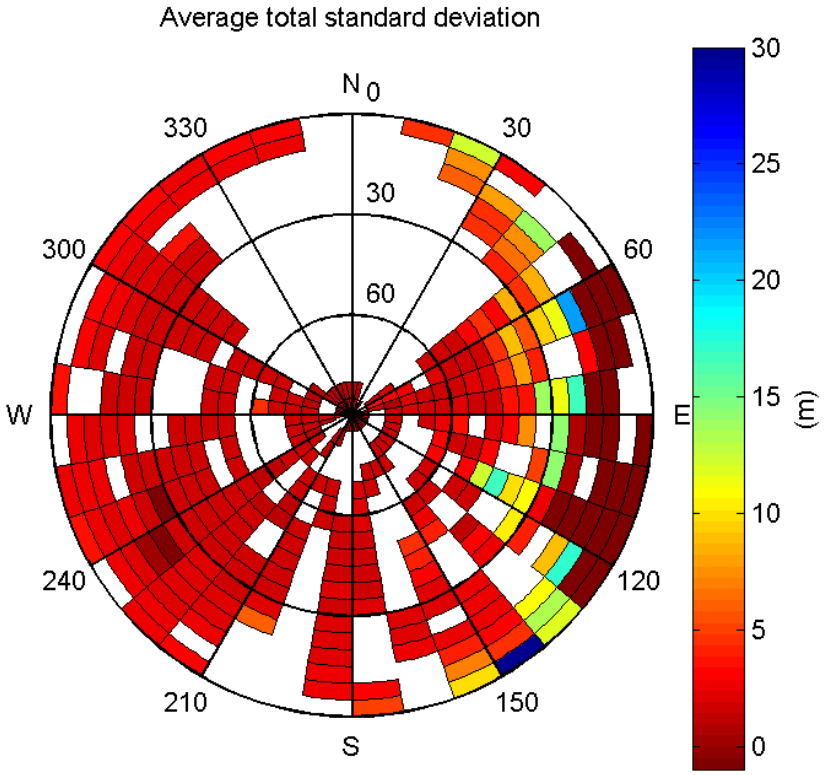

**CDF normalised range errors:**



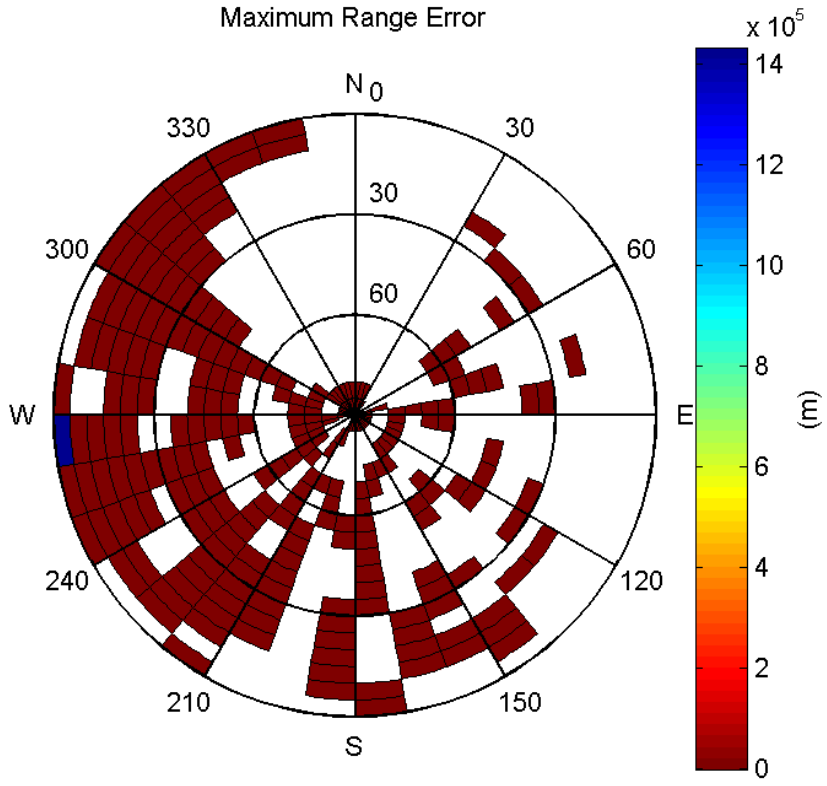

**Histogram of Norm Range errors:**




**Sigma Sky Plot:**

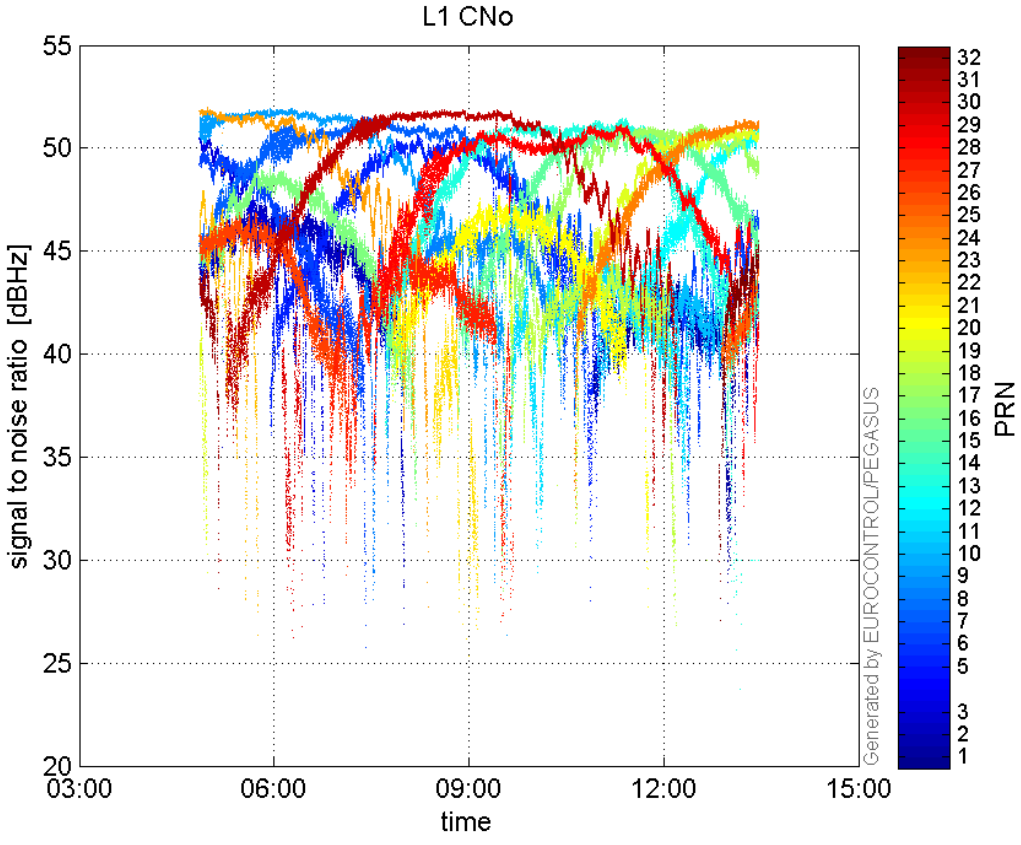



**Norm Error Sky Plot:**

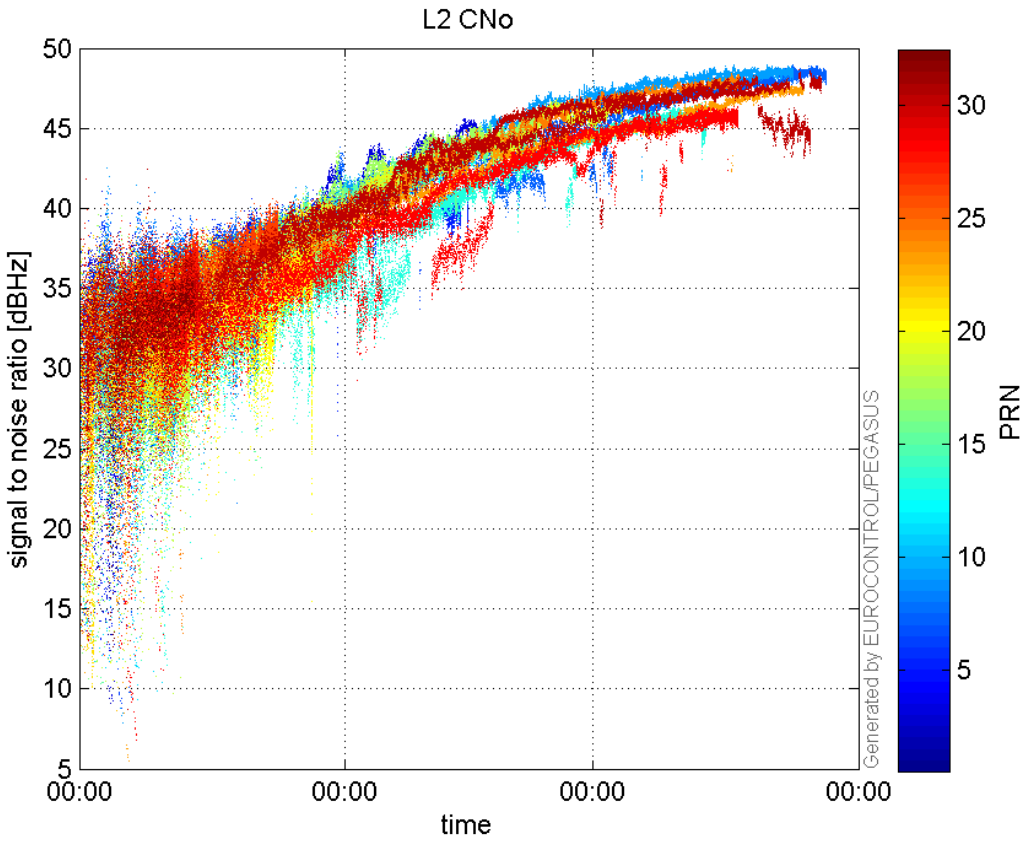



## signal quality

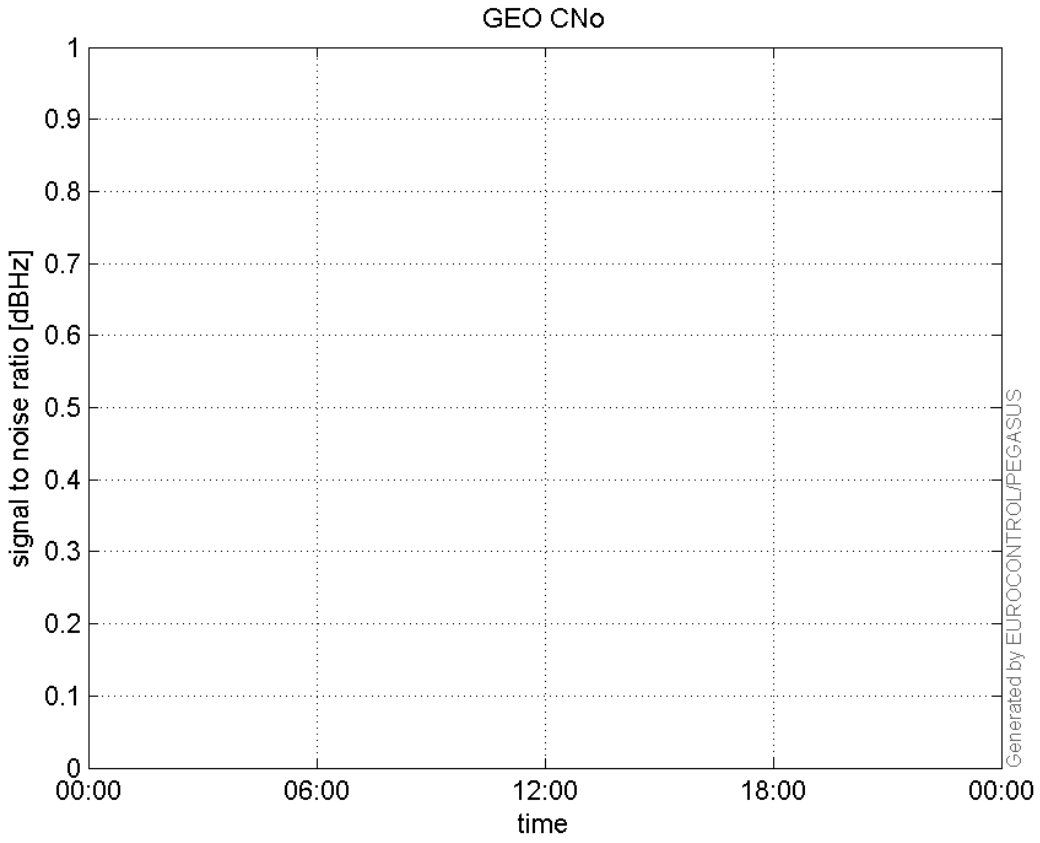
**L1 CNo:**



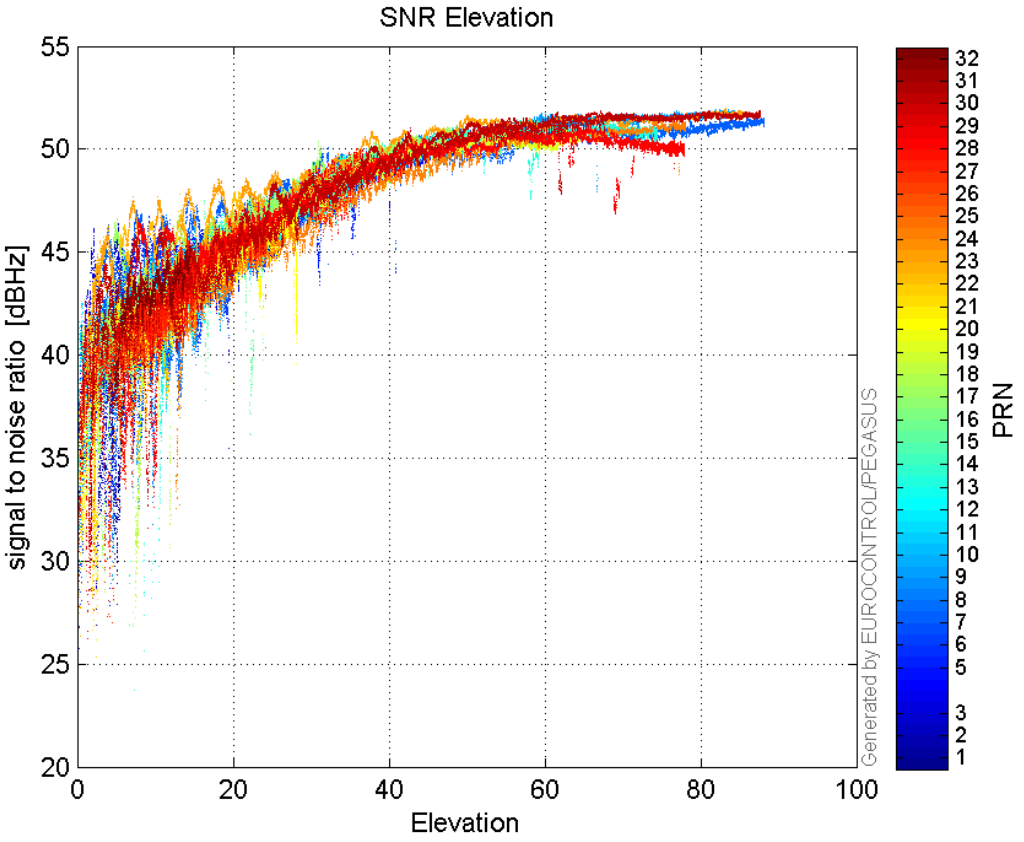
**L2 CNo:**



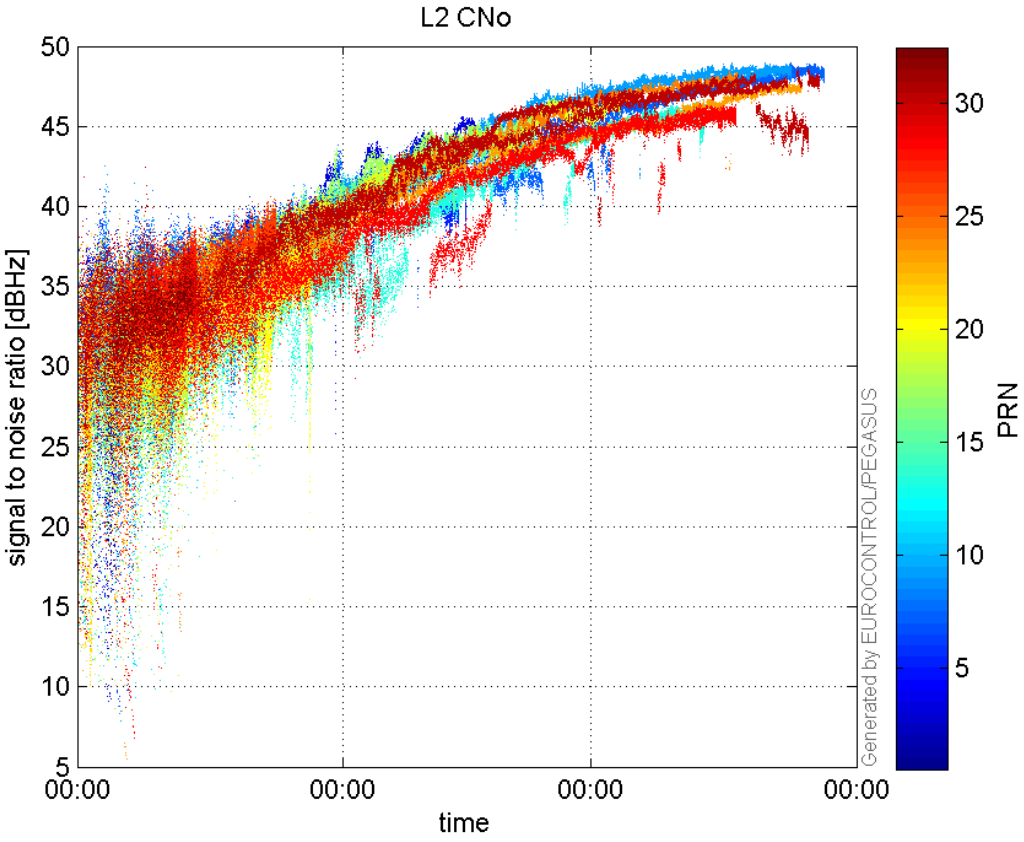

**GEO CNo:**



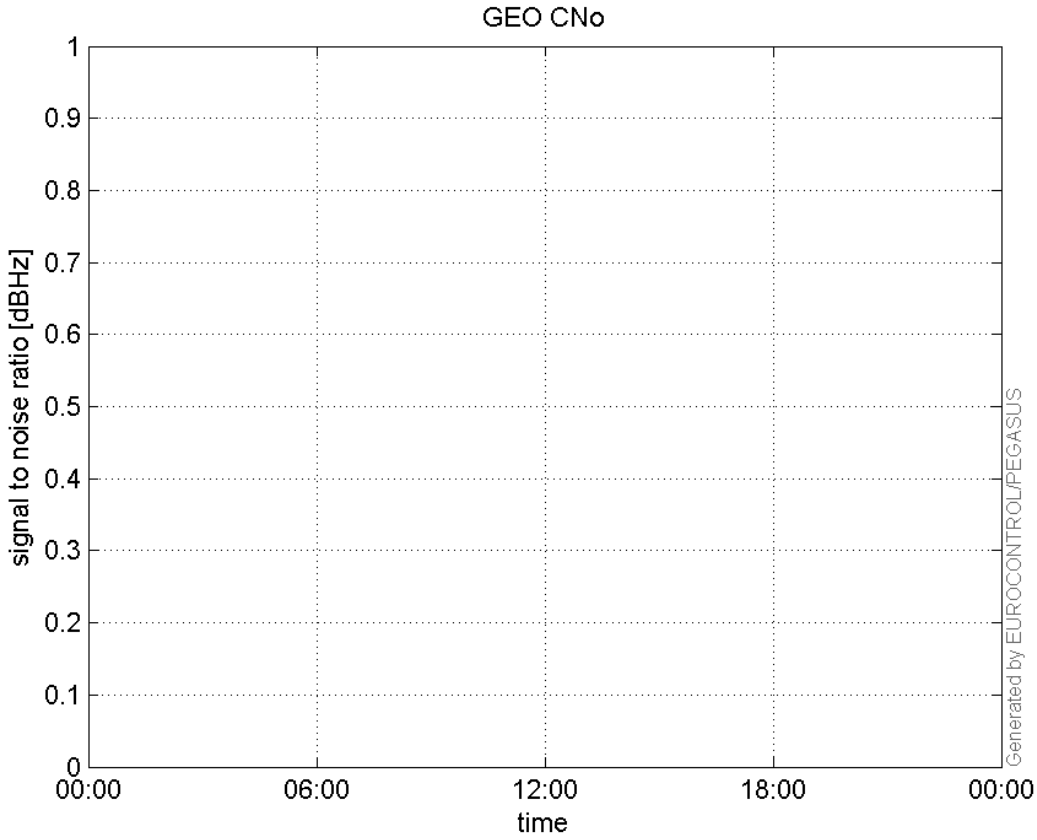

**SNR Elevation:**




**L2 CNo:**

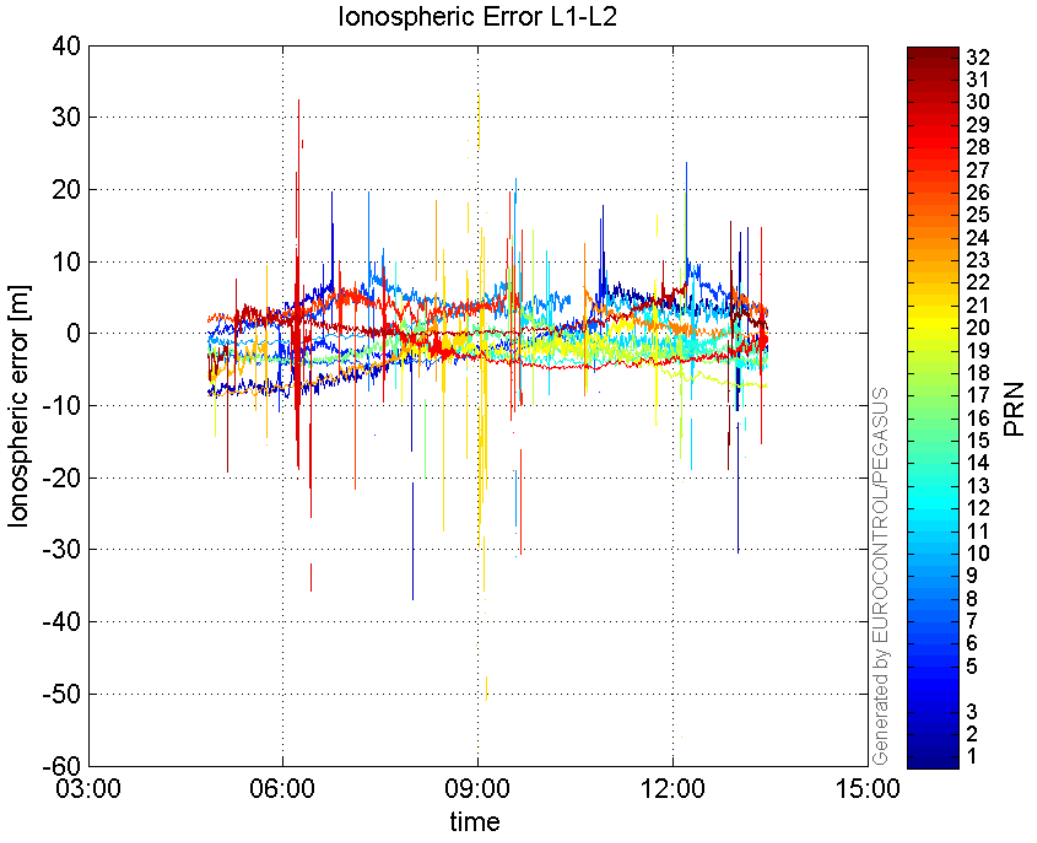



**GEO CNo:**




## dual frequency

**Ionospheric Error L1-L2:**



## Parameters

### system

| Name | Section | Value |
|---|---|---|
| **name** | system | GNSS_Solution |
| **version** | system | 4.8.4.0 |
| **input_prefix** | system | D:/PegasusDateJob/job/2016_04_20_EGNOS/02_Convertor/02_Convertor |
| **output_prefix** | system | D:/PegasusDateJob/job/2016_04_20_EGNOS/03_GNSS_Solution/03_GNSS_Solution_sol |

### settings

| Name | Section | Value |
|---|---|---|
| **ref_lat** | settings | 50.439 |
| **ref_lon** | settings | 30.4297 |
| **ref_alt** | settings | 215.271 |
| **smoothing** | settings | yes |
| **smoothing_constant** | settings | 100 |
| **smoothing_max_gap** | settings | 10 |
| **smoothing_max_divergence** | settings | 3 |
| **min_elevation** | settings | 5 |
| **aad_model** | settings | a |
| **output_range_file** | settings | yes |
| **sbas_prn** | settings | 120 |
| **gnss_mode** | settings | sbas |

### results

| Name | Section | Value |
|---|---|---|
| **init_lat** | results | 50.439 |
| **init_lon** | results | 30.4298 |
| **init_alt** | results | 240.5905 |
| **mi_numbers** | results | 0 |