

# Land Survey Overview

GNSS Solutions  
(C) 2012 Trimble Navigation Limited. All rights reserved. Spectra Precision is a Division of Trimble Navigation Limited.  
13.07.2018 10:32:39

Project Name : Project85  
Spatial Reference System : NORWAY/ETRS89/NTM zone 05~1  
Time Zone : (UTC) Uniwersalny czas koordynowany  
Linear Units : Meters

## Coordinate System Summary

### Coordinate system

Name : NORWAY/ETRS89/NTM zone 05~1  
Type : Projected  
Unit name : Meters  
Meters per unit : 1  
Vertical datum : EGM08\_EU  
Vertical unit : Meters  
Meters per unit : 1

### Datum

Name : ETRS89=ITRF00,1989,EURA  
Ellipsoid Name : GRS 1980  
Semi-major Axis : 6378137.000 m  
Inverse Flattening : 298.257222101  
DX to WGS84 : 0.0000 m  
DY to WGS84 : 0.0000 m  
DZ to WGS84 : 0.0000 m  
RX to WGS84 : -0.000000 "  
RY to WGS84 : -0.000000 "  
RZ to WGS84 : -0.000000 "  
ppm to WGS84 : 0.000000000000

### Projection

Projection Class : Transverse\_Mercator  
latitude\_of\_origin : 58° 00' 00.00000"N  
central\_meridian : 5° 30' 00.00000"E  
scale\_factor : 1.000000000000  
false\_easting : 100000.000 m  
false\_northing : 1000000.000 m

## Control Points

Name	Components	95% Error	Status	Control
VRS1	East	76623.990	0.000	FIXED
	North	1253589.372	0.000	FIXED
	Ortho height	81.819	0.000	FIXED

## Logged Points

Name	Components	95% Error	Status
TORE	East	76634.847	0.003
	North	1253574.589	0.005
	Ortho height	88.787	0.003
Description	TORE		

# Files

Name	Start Time	Sampling	Epochs	Size (Kb)	Type
15min1750.180	18/06/24 08:45:01	1	900	873	L1 GPS/GLONASS/WAAS
BVRS1A18.175	18/06/24 07:00:00	30	540	1113	L1/L2 GPS

# VRS Files

Name	Site	Reference stations
BVRS1A18.175	VRS1	stas,osls,trds

# Occupations

Site	Start Time	Time span	Type	File
TORE	24 czerwiec 2018 08:45:01.00	00:14:59.00	Static	15min1750.180
___1	24 czerwiec 2018 07:00:00.00	04:29:30.00	Static	BVRS1A18.175

# Processes

Reference	Reference File	Rover	Rover File	Mode	Num
VRS1	BVRS1A18.175	TORE	15min1750.180	Static	1

# Processed vectors

Vector Identifier	Vector Length	95% Error	Vector Components	95% Error	SV	PDOP	QA	Solution
VRS1 - TORE	19.621	0.008	X 15.199	0.005	11	1.6		Fixed
18/06/24 08:45:01.00			Y 12.345	0.003				
+00:14:59.00			Z -1.244	0.000				

# Adjusted vectors

Vector Identifier	Vector Length	Length Resid.	Vector Components	Resid.	Tau Test	QA
VRS1 - TORE	19.621	0.000	X 15.199	0.000		
18/06/24 08:45:01.00			Y 12.345	0.000		
			Z -1.244	0.000		



# CSRS-PPP (V 1.05 11216)



—1

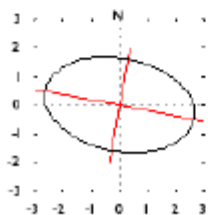
<b>Data Start</b>	<b>Data End</b>	<b>Duration of Observations</b>
2018-06-24 07:00:00.000	2018-06-24 11:29:30.000	4h 29m 30.00s
<b>Apri / Aposteriori Phase Std</b>		<b>Apri / Aposteriori Code Std</b>
0.020m / 0.006m		2.0m / 0.975m
<b>Observations</b>	<b>Frequency</b>	<b>Mode</b>
Phase and Code	L1 and L2	Static
<b>Elevation Cut-Off</b>	<b>Rejected Epochs</b>	<b>Observation &amp; Estimation Steps</b>
10.000 degrees	0.00 %	30.00 sec / 30.00 sec
<b>Antenna Model</b>	<b>APC to ARP</b>	<b>ARP to Marker</b>
TRM55971.00	L1= 0.067 m L2= 0.058 m	0.000 m

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

## Estimated Position for vrs11750.18o

	Latitude (+n)	Longitude (+e)	Ell. Height
ITRF14 (2018)	60° 16' 32.7887"	5° 04' 39.2477"	127.066 m
Sigmas(95%)	0.013 m	0.021 m	0.044 m
Apriori	60° 16' 32.947"	5° 04' 39.327"	141.421 m
Estimated - Apriori	-4.904 m	-1.211 m	-14.355 m

95% Error Ellipse (cm)  
semi-major: 2.700cm  
semi-minor: 1.616cm  
semi-major azimuth: 100° 12' 31.37"



UTM (North) Zone 31

6683933.641m (N) 614903.376m (E)

Scale Factors  
0.99976179 (point)  
0.99974185 (combined)

(Coordinates from RINEX file used as apriori position)