

## **Site investigation SFR**

# **Surveying of existing geodetic network and establishing a transformation model between local system and RT90, establish a horizontal and vertical geodetic network in the SFR tunnels and survey existing boreholes in SFR**

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SWECO VBB AB

March 2008

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*Keywords:* P-report SKBDoc id 1184890, Review statement SKBDoc id 1184888, Appendix SKBDoc id 1184889, Horizontal geodetic network, Levelling geodetic network, Network points, Surveying of boreholes, Project SFR extension.

This report concerns a study which was conducted for SKB. The conclusions and viewpoints presented in the report are those of the authors and do not necessarily coincide with those of the client.

Data in SKB's database can be changed for different reasons. Minor changes in SKB's database will not necessarily result in a revised report. Data revisions may also be presented as supplements, available at [www.skb.se](http://www.skb.se).

A pdf version of this document can be downloaded from [www.skb.se](http://www.skb.se).

# Abstract

This project is divided in three different parts that connect in the way that the result from one part is used in the next part.

- Survey parts of the existing network in the local TU-system and calculate the points in the Swedish reference frames RT90 2,5 gon V 0:-15. Then determine the relation between the local coordinate system TU and the Swedish reference frames RT90 2,5 gon V 0:-15 by creating a transformation model. The model is a four parameter transformation, “Helmert transformation”.
- A horizontal and levelling network with 84 points have been established in the SFR tunnels. Coordinates for the network points have been measured and calculated in the Swedish reference frames RT90 2,5 gon V 0:-15 (horizontal) and RHB70 (vertical).
- Existing boreholes in SFR are surveyed according to the new network.

The coordinates for the network points and the boreholes are given in tables.

# Sammanfattning

Detta projekt är indelat i tre olika delmoment som hänger ihop på så sätt att resultatet från ett delmoment används som ingångsdata i nästa delmoment.

- Inmätning av delar av befintligt stomnät i TU-systemet och beräkning av detta i det nationella RT90 2,5 gon V 0:-15. Därefter skapa en relationen mellan det lokala TU-systemet och RT90 2,5 gon V 0:-15 genom att skapa en transformationsmodell. Modellen är en fyrparameters transformation, "Helmerttransformation".
- Ett stomnät i plan och höjd har upprättats i SFR. Koordinater för punkterna i stomnätet har mätts och beräknats i de nationella referenssystemen RT90 2,5 gon V 0:-15 i plan och RHB70 i höjd.
- Existerande borrhål i berget har blivit inmätta i det nyetablerade stomnätet.

Koordinater för punkterna i stomnätet samt koordinater för borrhålen presenteras i punktlistor.

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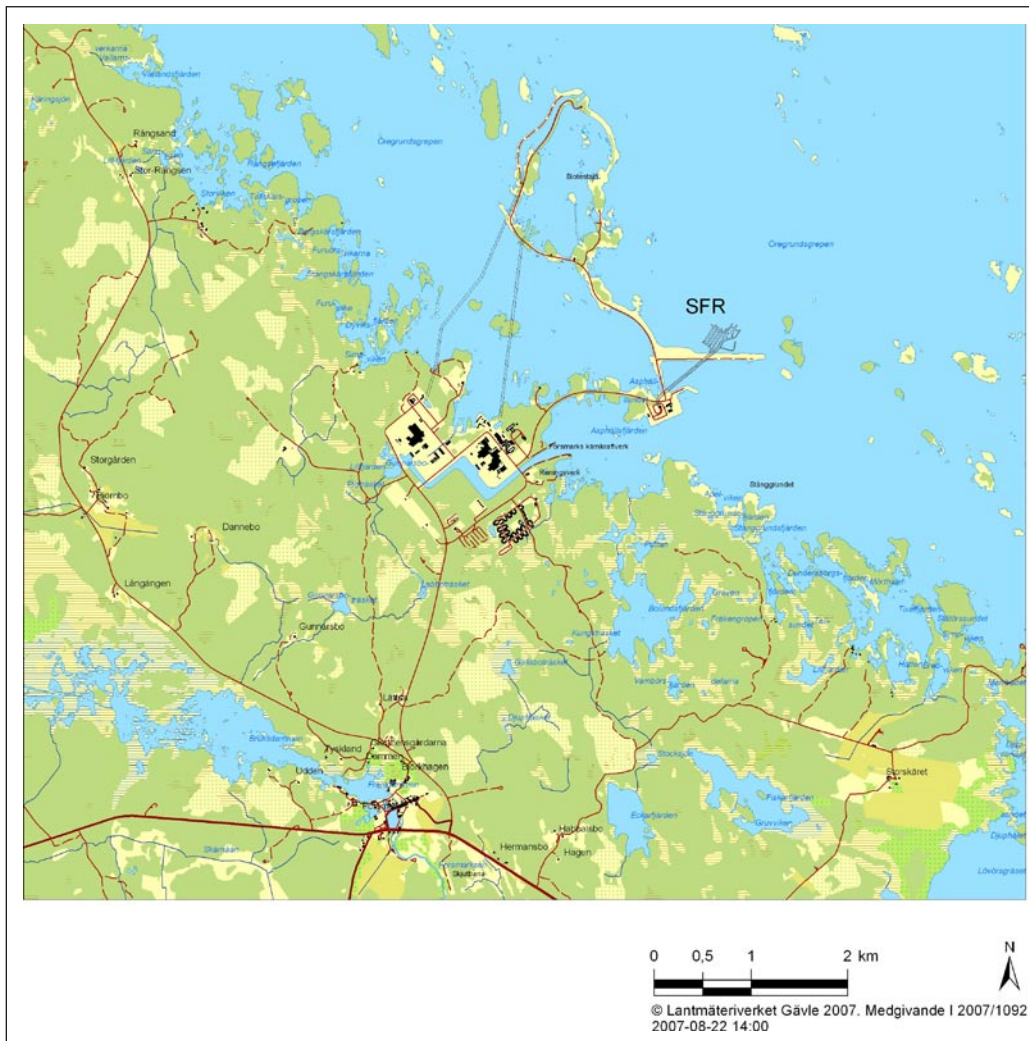
# 1 Introduction

This document reports the surveying gained by SWECO VBB AB, which is one of the activities performed within the site investigation at Forsmark. The work was carried out in accordance with activity plan AP SFR-07-003. In Table 1-1 controlling documents for performing this activity are listed. Both activity plan and method descriptions are SKB's internal controlling documents.

The delivered raw and processed data have been inserted in the database of SKB (Sicada) and data are traceable by the activity plan number AP SFR-07-003.

**Table 1-1. Controlling documents for the performance of the activity.**

Activity plan	Number	Version
Inmätning av stompunkter och etablering av transformations samband mellan RT90 och koordinatsystem TU, forsmark, samt etablering av stompunkter och inmätning av borrhål i SFR-anläggningen.	AP SFR-07-003	1.0



*Figure 1-1. General overview over Forsmark site investigation area.*

## **2 Objective and scope**

### **2.1 Geodetic network and a transformation model in the Forsmark area**

In the future SKB has the intention to use the Swedish reference frames RT90 2,5 gon V 0:-15 for all positioning in the Forsmark area. To be able to connect the existing local TU system to the RT90 network a transformation model had to be created.

By surveying a network of some of the existing points in the local system and connect the network to existing control points in the national reference frames RT90 2,5 gon V it was possible to determine a transformation model.

### **2.2 Geodetic network SFR**

A new geodetic network had to be established for a future expansion of the SFR tunnels. The purpose with the network was to make surveying possible, before and during different construction work. The points of the old network in the tunnels had of different reasons been damaged and the documentation had been lost.

To make it possible to merge surveying data with other kind of geographical data, the reference systems of the new network had to be RT90 2,5 g V 0:-15 (horizontal) and RHB70 (vertical).

### **2.3 Borehole surveying**

Boreholes inside SFR had to be measured in the new reference system in order to document them and make it possible to use them in future investigations.

## 3 Equipment

All instruments and other equipment used in the surveying are checked and calibrated according to recommendations in HMK-Ge:S /1/ and HKM-Ge:GPS /2/. All surveying that were performed in the project were also based on recommendations in the same document.

### 3.1 Description of equipment/interpretation tools

#### 3.1.1 Geodetic network and a transformation model in the Forsmark area

Seven GPS-receivers TRIMBLE 4000 with Compact L1/L2 antennas were used for surveying the network. The calculation of measured baselines, network adjustment and calibration on known points were made with the program system “Trimble Geodetic Office” from TRIMBLE. The transformation parameters were calculated in the geodetic program “SBG Geo” from Svensk Byggnadsgeodesi AB.

#### 3.1.2 Geodetic network SFR and borehole surveying

A total station *Leica TDA 5005* was used together with other equipment from Leica such as tripods, tribrachs, carriers and prisms.

The points in the SFR network are established to be used with “measuring arm” art. nr. 8218263 (19 cm) and prism GPR1 art. nr. 362820 with carrier GHP1 art. nr. 362830.

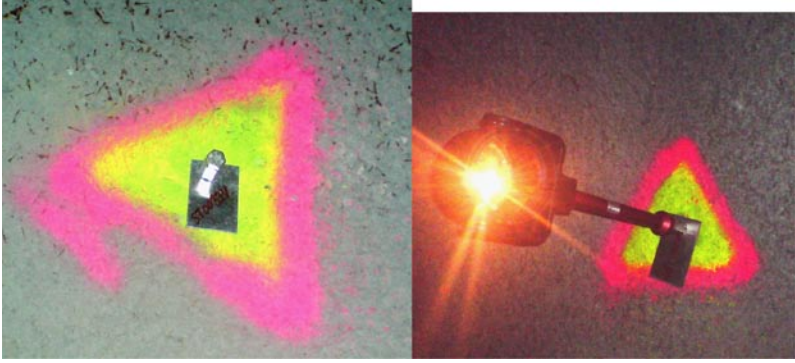
The prisms were mounted on the established points, see Figure 3-2.

Calculations of the geodetical network and measured boreholes were done in the geodetic program “SBG Geo” from Svensk Byggnadsgeodesi AB.



**Figure 3-1.** General Prism 362820, carrier 362830 and “measuring arm” 8218263.





*Figure 3-2. General network point.*

## 4 Execution

### 4.1 General

#### 4.1.1 Geodetic network and a transformation model in the Forsmark area

Some of the existing geodetic points in the TU network were surveyed to a network together with some of the points in the national framework. All measured points were calculated together in a network and calibrated with the known coordinates in the Swedish reference frames RT90 2,5 g V 0:-15.

In the “SBG Geo” system the transformation parameters between TU and RT90 systems were computed.

#### 4.1.2 Geodetic network SFR

A geodetic network was established and measured in the three tunnel pipes “driftunneln”, “bygg-tunneln” and “nedre byggtunneln”. The network was connected to three points outside the tunnel with known coordinates in the Swedish reference frames RT90 2,5 g V 0:-15 and RHB70.

The measurements were performed with a total station and a network adjustment was made to calculate the coordinates of the network points.

#### 4.1.3 Borehole surveying

Existing boreholes have been measured and are shown in a coordinate list, Appendix 12. The boreholes were measured in the top center of the pipe, were it was possible. When no pipe were visible, the point were measured in the centre of the hole in the rock. See remarks in Table 4-1.

**Table 4-1. Borehole surveying, remarks.**

Borehole id	Remarks
KFR01	Damaged pipe
KFR02	OK
KFR03	OK
KFR04	OK
KFR05	OK
KFR06	OK
KFR08	OK
KFR09	OK
KFR10	OK
KFR12	OK
KFR13	OK
KFR14	Hole in concrete
KFR19	OK
KFR20	OK
KFR53	OK
KFR54	OK
KFR55	OK
KFR56	OK
KFR7A	Hole in rock
KFR7B	OK
KFR7C	Hole in concrete
KFR87	OK
KFR88	OK

## 4.2 Preparations

Instrument and accessories were calibrated by Leica Geosystems AB, which is an authorized organisation that fulfils international standards (ISO9000).

## 4.3 Execution of field work

### 4.3.1 Geodetic network and a transformation model in the Forsmark area

All relevant points in the existing TU-system were visited to determine the possibility to survey with GPS. 25 points of 52 with a good distribution in the area were chosen in the TU system for the network. Five points were added for the connection to the national network. Two extra points (700, SW1001) were included to be the connection to the SFR network.

The network was surveyed in 8 sessions with seven GPS receivers. Each session has at least one baseline common with another session. All sessions should last for at least 45 minutes. See Appendix 1 for a plot of the baselines.

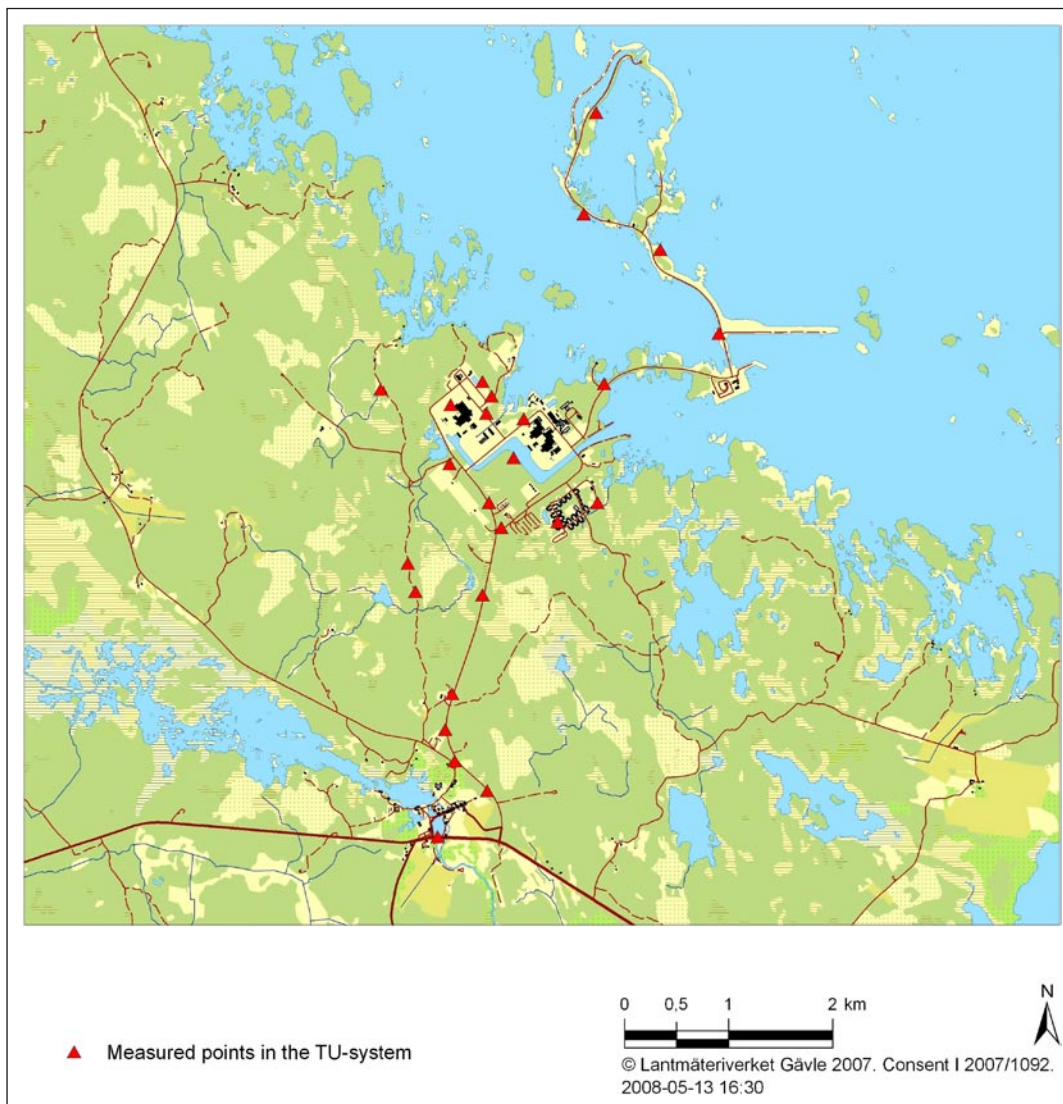
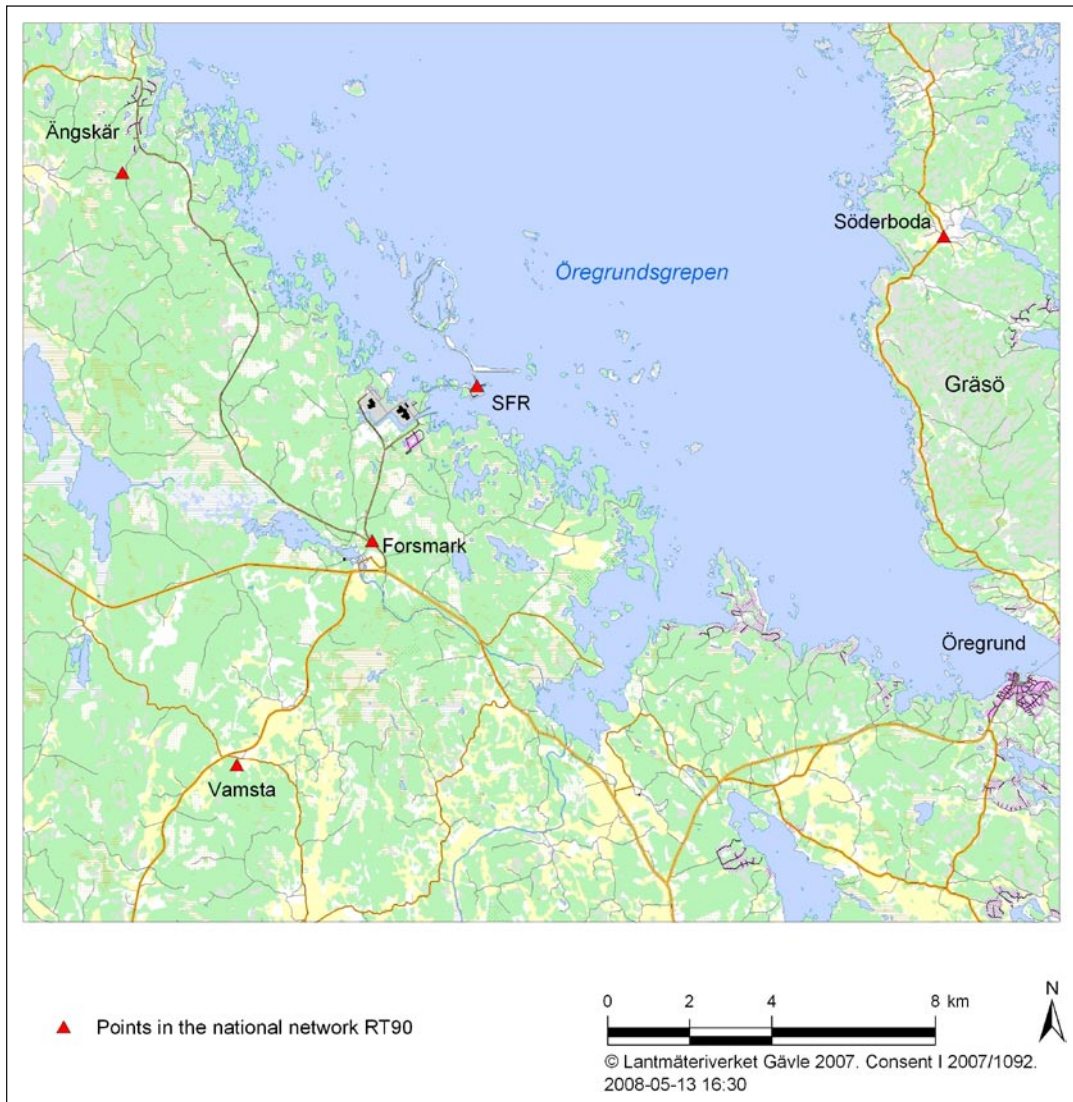


Figure 4-1. Measured points in the TU-system.



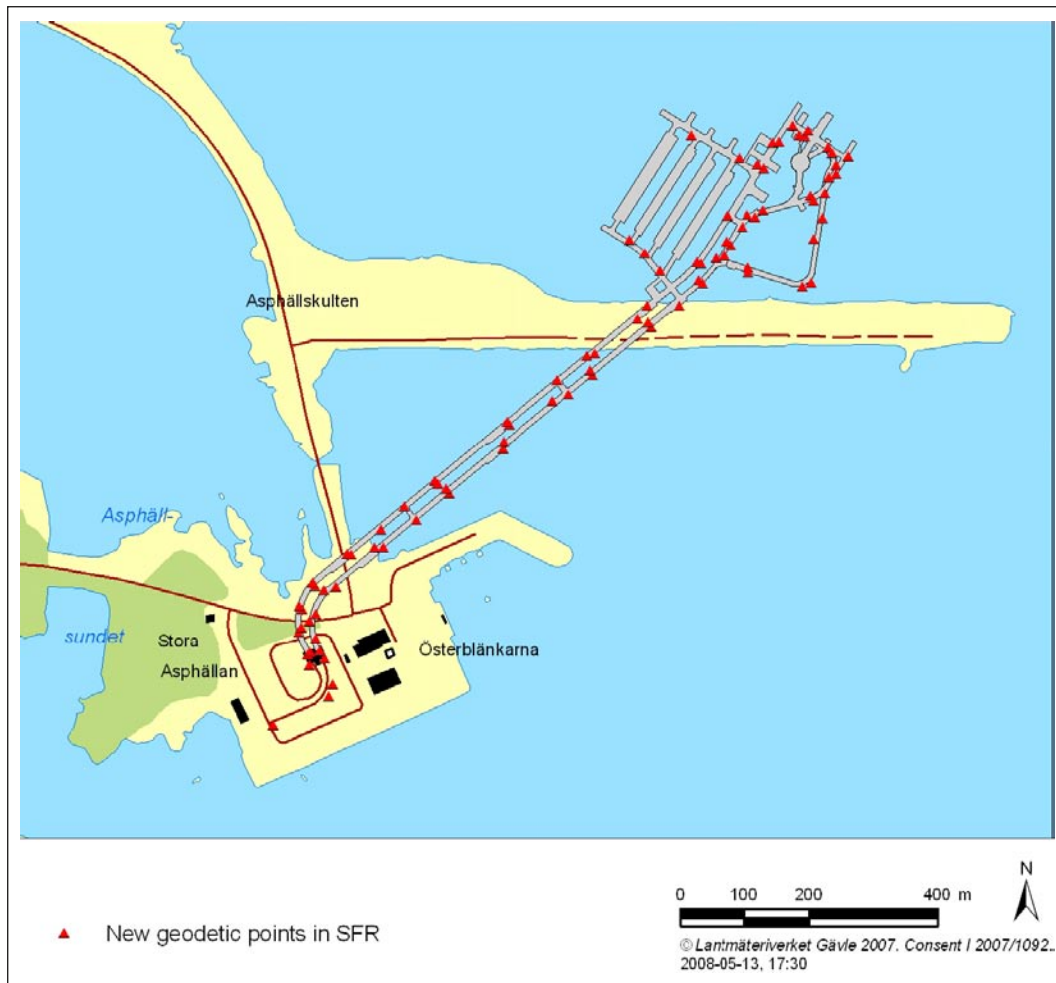
*Figure 4-2. Points in the national network.*

#### 4.3.2 Geodetic network SFR

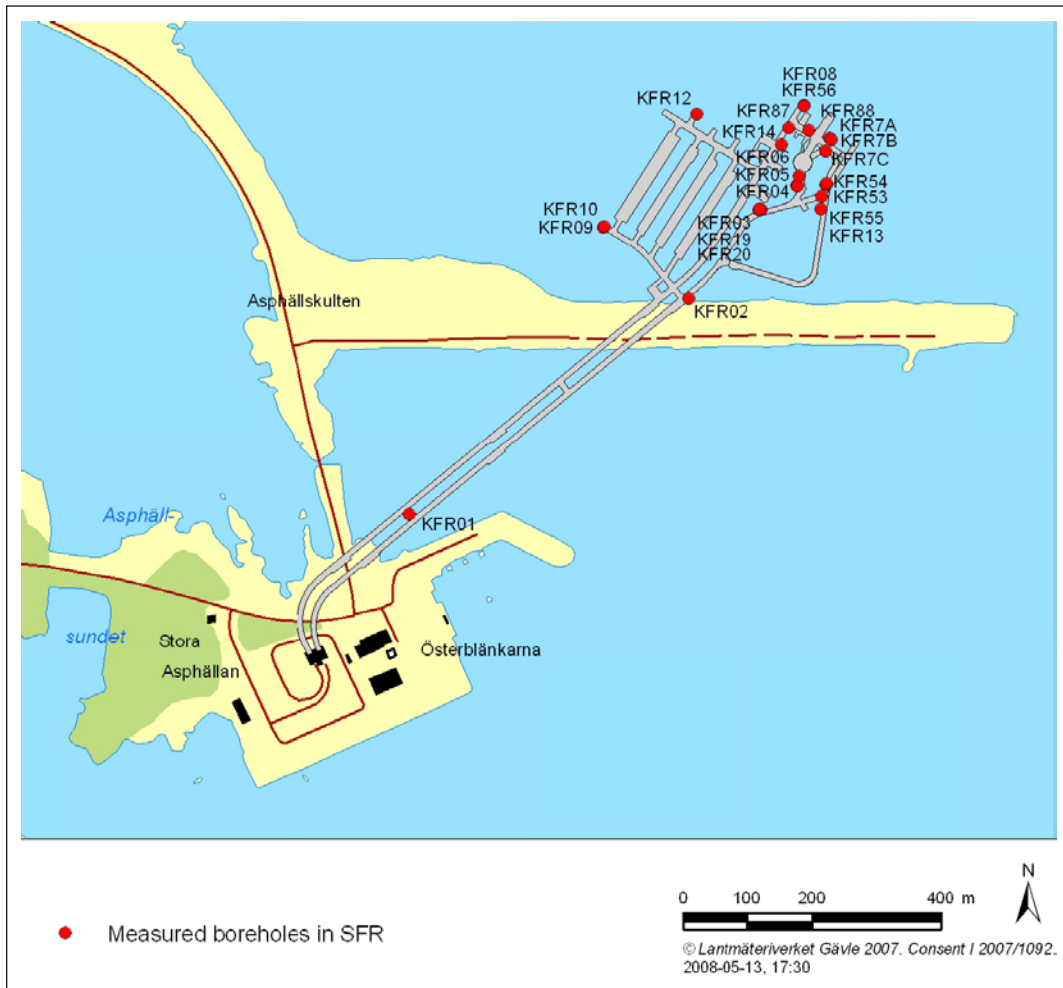
The tunnel network consists of an outer network where 3 points (700, SW1001, 1001) had known easting, northing and two points (1001, 13810603) had known height. The network inside the tunnels was measured as a chain of polygons with pairs of points on the tunnel walls. At four locations, the tunnels, “byggtunneln” and “drifttunneln” could be connected through doors to strengthen the configuration. Angle and distance measurements were made 2 times in both circles to avoid systematic errors.

#### 4.3.3 Borehole surveying

The boreholes were measured traditionally with a total station based on “free station” calculations and polar measuring.



*Figure 4-3. New points in SFR.*



*Figure 4-4. Measured boreholes in SFR.*

## 4.4 Data handling/post processing

### 4.4.1 Geodetic network and a transformation model in the Forsmark area

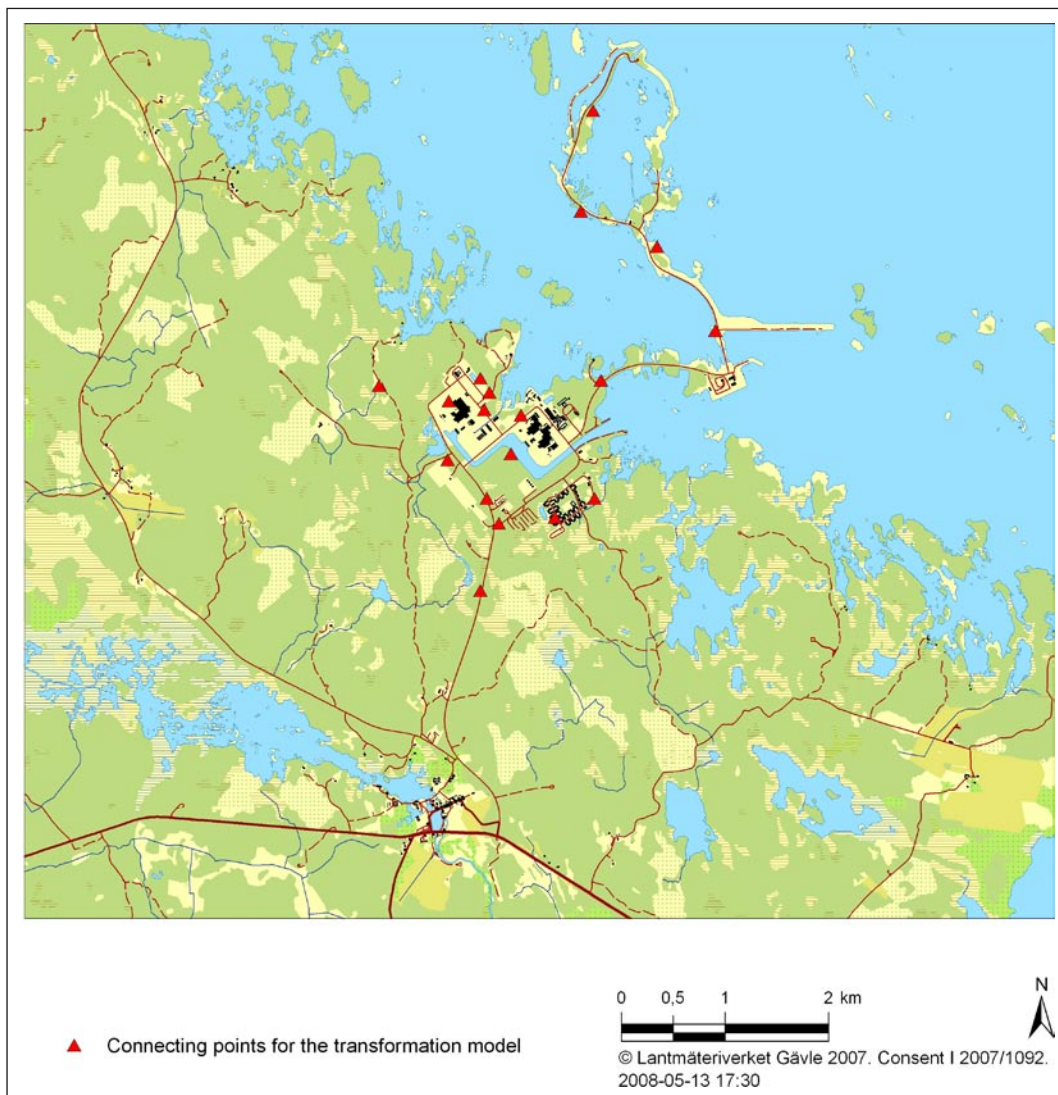
All surveyed baselines were computed in the system “Trimble Geodetic Office”. The computed baseline values are shown in Appendix 2.

The baselines were put together in “Trimble Geodetic Office” to a network and the observations azimuths, delta heights and distances were adjusted in the system WGS-84. See Appendix 3 for a software printout of measured and computed values.

The adjusted network was then transformed to the “2,5 gon V RT90”-system by a calibration procedure when the true RT90/RHB70 coordinates were used as destination values. Maximum horizontal error was 0.011m on point 138141 and maximum vertical error 0.026m on point 1289590 see Appendix 4.

18 of the points were chosen to represent the most important part in the TU-system. A transformation model between the TU-system and “2,5 gon V RT90”-system were computed in the “SBG Geo” system. The transformation parameters and residuals can be seen in Appendix 5 and 6. The formula and the parameters are expressed in standardized terms according to HMK-Ge:S /1/.

The use of the transformation parameters is shown in Appendix 7.



**Figure 4-5.** Transformation points between the TU-system and RT90.

#### **4.4.2 Geodetic network SFR**

The circle measurement was reduced and imported to a network adjustment in SBG Geo. In the horizontal network adjustment point 700 was set as fixed with direction against point 1001. In the vertical network adjustment point 1001 and 13810603 were set as fixed. Bad measurements were located and removed from the adjustment, until the root mean square error was acceptable.

#### **4.4.3 Borehole surveying**

Coordinates of the boreholes were calculated in “SBG Geo”, by using “free station” and polar measurement.

### **4.5 Analyses and interpretations**

#### **4.5.1 Geodetic network and a transformation model in the Forsmark area**

148 baselines are included in the network. The weighting strategy between different baselines is to use standard errors from the calculations of the baselines applied with a user defined scalar. The adjustment is controlled by the parameters in the system that warns if the network has errors that are larger than allowed. The point errors of every single point were controlled to see that the expected accuracy was not exceeded see Appendix 3, page 6–9.

The transformation parameters were controlled by checking that the residuals did not have any outliers, see Appendix 6b X and Y-Differens.

#### **4.5.2 Geodetic network SFR**

The network adjustments were analyzed by comparing the root mean square error and “kontrollerbarheten” (Swedish) by allowed values in HMK-Ge:S /1/. Also the point errors of every single point were analyzed to check that the expected accuracy not was exceeded.

### **4.6 Nonconformities**

#### **4.6.1 Geodetic network and a transformation model in the Forsmark area**

In the GPS-network adjustment 14 of 162 baselines were excluded from the adjustment, Appendix 8. The main reason for excluding a baseline was that the satellite configuration was not good enough at the time the observation was done. Many of the excluded baselines were observed more than once. Exclusion of these observations has no effect on the network configuration.

#### **4.6.2 Geodetic network SFR**

No nonconformities were detected.

#### **4.6.3 Borehole surveying**

Two boreholes (KFR11, KFR52) were not detected and therefore not possible to measure.



## **5 Results**

### **5.1 Geodetic network and a transformation model in the Forsmark area**

Result from the network adjustment, point calibration and computation can be found in Appendix 3 page 6–9 (Point errors) and Appendix 4 page 2 – 3 (Point errors).

See the coordinates and point errors in x, y, z in the Sicada printout in Appendix 11.

Transformation parameters are reported in Appendix 5a and 6a.

### **5.2 Geodetic network SFR**

Result from the network adjustments can be found in the program reports in Appendix 9 and Appendix 10. The allowed values according to HMK-Ge:S /1/ and expected point errors were not exceeded.

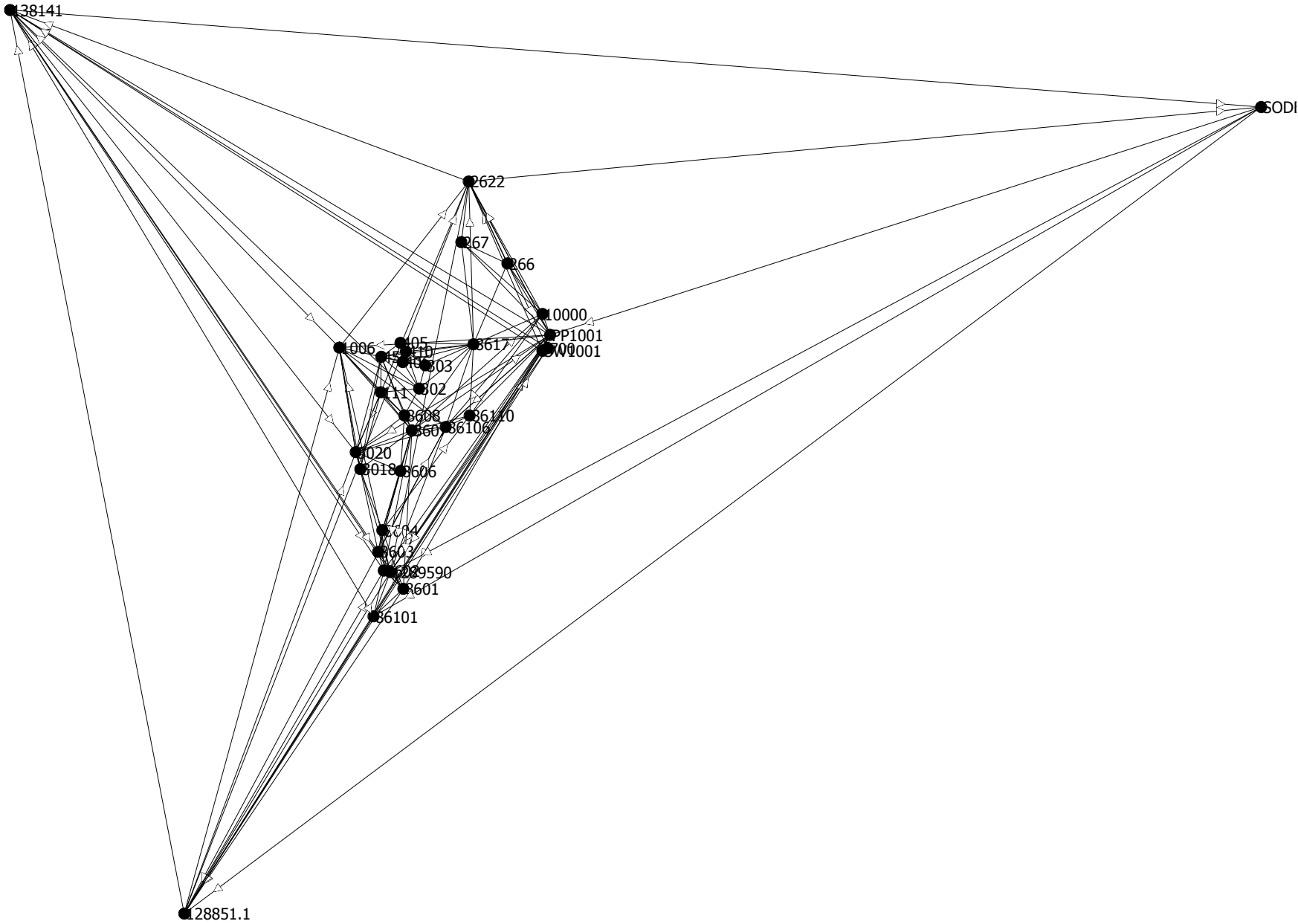
See the coordinates and point errors in x, y, z in Appendix 11.

### **5.3 Borehole surveying**

Coordinates of the measured boreholes can be found in the Sicada printout in Appendix 12.

## References

- /1/ HMK-Geodesi, Stommätning ISBN 91-7774-041-6 1996.
- /2/ HMK-Geodesi, GPS, ISBN 91-7774-061-0 1996.



Field surveyor:  
 Computer operator:  
 Reference:

Scale 1:90000  
 0 4000 m  
 Meters



0°00'00"

Plot Scale: 1:90000  
 Printed on 17.3.2008, at 14:05:54  
 Printed from Trimble Geomatics Office

Site: Not selected, System: Sweden (RT-90)  
 Zone: 2.5 GON V 0;-15, Datum: Sweden RT-90 (SWEREF 99)  
 Project: Forsmark01  
 Metric Template

# GPS Vector data

## Project : Forsmark01

<b>User name</b>	shol	<b>Date &amp; Time</b>	14:09:35 17.3.2008
<b>Coordinate System</b>	Sweden (RT-90)	<b>Zone</b>	2.5 GON V 0;-15
<b>Project Datum</b>	Sweden RT-90 (SWEREF 99)		
<b>Vertical Datum</b>		<b>Geoid Model</b>	SWEN01L (Sweden)
<b>Coordinate Units</b>	Meters		
<b>Distance Units</b>	Meters		
<b>Height Units</b>	Meters		

---

From Point Name	To Point Name	DeltaX	DeltaY	DeltaZ	Slope Distance	RMS	Ratio	Ref Var
8607	111	-369.790m	-620.988m	309.550m	786.252m	0.009m	11.2	6.536
8607	8606	595.978m	-19.724m	-318.871m	676.209m	0.005m	31.4	1.882
8607	455	-850.575m	-748.297m	585.829m	1275.391m	0.009m	17.9	5.662
8602	86110	-2470.825m	727.820m	1189.673m	2837.256m	0.014m	3.5	19.241
8601	8604	-690.018m	-545.169m	468.535m	996.424m	0.006m	33.6	2.511
8601	8603	-382.434m	-527.609m	297.698m	716.415m	0.005m	35.2	2.370
8601	86110	-2627.349m	357.406m	1336.656m	2969.403m	0.016m	4.1	19.024
406	303	-58.184m	356.894m	-34.050m	363.205m	0.009m	11.2	8.484
455	302	256.526m	701.215m	-260.011m	790.641m	0.017m	3.7	27.740
302	410	-435.681m	-342.616m	296.062m	628.376m	0.015m	36.0	20.725
406	8617	-558.434m	1017.309m	117.299m	1166.415m	0.008m	10.5	6.695
8617	303	500.259m	-660.411m	-151.344m	842.203m	0.006m	203.3	3.687
405	8617	-312.256m	1125.921m	-35.803m	1168.967m	0.009m	7.3	7.404
405	303	188.002m	465.514m	-187.146m	535.791m	0.010m	5.8	8.722
405	406	246.172m	108.614m	-153.098m	309.575m	0.011m	4.8	9.518
405	455	270.844m	-242.129m	-107.762m	378.940m	0.011m	4.7	9.691
410	455	179.150m	-358.599m	-36.093m	402.481m	0.010m	4.0	9.989
1006	111	411.622m	806.685m	-364.507m	976.237m	0.011m	8.8	9.935
8607	1006	-781.309m	-1427.642m	674.112m	1761.543m	0.009m	9.0	10.120
8607	3018	752.019m	-643.380m	-291.528m	1031.726m	0.010m	10.4	9.728
8602	8604	-532.468m	-175.449m	322.094m	646.567m	0.009m	10.4	9.068
8604	86106	-1674.813m	580.517m	786.919m	1939.392m	0.012m	15.8	9.134

8601	86106	-2364.847m	35.348m	1255.447m	2677.666m	0.012m	10.6	8.360
8602	8601	157.556m	369.722m	-146.444m	427.743m	0.009m	10.2	6.396
128851.1	1006	-8289.376m	231.505m	4417.048m	9395.619m	0.030m	5.5	7.879
302	406	-281.239m	-350.480m	214.659m	498.006m	0.010m	8.6	9.168
410	405	-91.696m	-116.466m	71.672m	164.649m	0.012m	4.7	9.505
302	303	-339.402m	6.419m	180.613m	384.520m	0.012m	5.5	11.926
8617	2622	-2160.658m	-690.894m	1285.854m	2607.527m	0.004m	35.3	1.550
8617	267	-1314.332m	-573.962m	809.382m	1646.815m	0.006m	10.8	2.435
8617	PP1001	-472.457m	1141.208m	51.642m	1236.219m	0.006m	6.9	3.024
8617	10000	-717.888m	945.619m	220.382m	1207.529m	0.006m	12.8	2.892
8617	266	-1235.452m	214.163m	629.260m	1402.917m	0.006m	13.9	2.677
8604	8603	307.580m	17.562m	-170.847m	352.282m	0.004m	17.9	1.418
8604	86110	-1938.409m	903.222m	867.443m	2307.747m	0.013m	5.2	11.418
8604	8606	-880.445m	52.816m	452.981m	991.546m	0.004m	19.8	1.149
PP1001	2622	-1688.211m	-1832.105m	1234.194m	2780.270m	0.003m	51.3	0.663
PP1001	267	-841.879m	-1715.166m	757.729m	2055.410m	0.004m	33.3	1.014
PP1001	10000	-245.431m	-195.588m	168.742m	356.321m	0.003m	45.4	0.598
PP1001	266	-763.001m	-927.044m	577.607m	1332.370m	0.003m	64.0	0.582
PP1001	86106	1707.757m	-1252.973m	-694.306m	2228.999m	0.008m	21.4	5.110
10000	2622	-1442.779m	-1636.518m	1065.454m	2427.961m	0.003m	51.8	0.658
10000	267	-596.447m	-1519.578m	588.990m	1735.447m	0.004m	35.4	1.228
10000	266	-517.569m	-731.456m	408.868m	984.925m	0.003m	63.5	0.959
10000	86106	1953.190m	-1057.384m	-863.048m	2382.827m	0.008m	16.8	6.362
8603	86110	-2246.016m	885.650m	1038.253m	2628.105m	0.013m	4.7	13.146
8603	8606	-1188.032m	35.250m	623.813m	1342.313m	0.003m	36.8	1.026
8617	455	583.131m	-1368.055m	-71.957m	1488.891m	0.005m	31.8	2.608
410	8617	-403.981m	1009.453m	35.860m	1087.879m	0.010m	3.7	8.722
303	410	-96.277m	-349.044m	115.484m	380.049m	0.010m	3.7	8.673
455	1006	69.158m	-679.379m	88.234m	688.566m	0.010m	9.5	9.806
302	1006	-187.365m	-1380.587m	348.221m	1436.100m	0.018m	4.6	30.054
8603	3018	-1031.973m	-588.395m	651.189m	1354.704m	0.007m	8.9	4.146
8603	86106	-1982.395m	562.969m	957.798m	2272.488m	0.014m	14.3	8.008
8602	8603	-224.922m	-157.901m	151.198m	313.662m	0.012m	3.6	9.871
8607	8602	2008.899m	102.915m	-1093.935m	2289.751m	0.008m	14.1	6.479
8607	8617	-1433.691m	619.761m	657.794m	1694.776m	0.006m	42.6	2.965
1006	86106	583.026m	1935.663m	-658.953m	2126.248m	0.013m	72.8	18.184
8608	111	-202.317m	-450.503m	190.296m	529.243m	0.012m	3.0	15.010
111	455	-480.779m	-127.308m	276.276m	568.933m	0.004m	118.6	1.470
455	406	-24.680m	350.747m	-45.344m	354.526m	0.009m	41.7	7.261
455	303	-82.869m	707.646m	-79.387m	716.890m	0.006m	116.9	3.146
2622	267	846.330m	116.938m	-476.467m	978.248m	0.004m	43.8	0.938
2622	266	925.209m	905.060m	-656.588m	1451.294m	0.003m	41.7	0.769

267	266	78.878m	788.122m	-180.123m	812.282m	0.004m	35.5	1.141
8608	1006	-613.927m	-1257.195m	554.811m	1505.079m	0.014m	3.4	17.858
3018	1006	-1533.410m	-784.283m	965.625m	1974.558m	0.013m	4.5	14.238
455	3020	1397.190m	-30.672m	-741.023m	1581.833m	0.012m	7.6	13.686
3020	111	-916.414m	157.975m	464.747m	1039.596m	0.010m	9.7	8.775
302	3020	1140.606m	-731.875m	-480.998m	1438.048m	0.013m	5.1	18.203
8608	3020	714.165m	-608.492m	-274.377m	977.536m	0.010m	12.4	8.698
8607	3020	546.631m	-778.954m	-155.174m	964.186m	0.011m	7.2	9.608
3020	3018	205.254m	135.557m	-136.540m	281.332m	0.010m	5.1	8.899
3018	111	-1121.800m	22.402m	601.113m	1272.900m	0.014m	14.1	17.080
302	111	224.247m	-573.896m	-16.255m	616.367m	0.010m	6.5	9.977
302	8608	426.586m	-123.411m	-206.505m	489.745m	0.011m	4.4	9.489
8608	8603	1951.486m	115.520m	-1062.034m	2224.761m	0.012m	10.7	9.390
8608	8602	2176.075m	275.001m	-1212.984m	2506.443m	0.017m	5.1	19.153
8608	8606	763.433m	150.770m	-438.184m	893.066m	0.010m	9.7	6.091
8607	8608	-167.471m	-170.491m	119.297m	267.106m	0.013m	8.8	15.182
8608	86106	-30.900m	678.488m	-104.223m	687.141m	0.011m	8.3	12.399
8606	3018	156.040m	-623.650m	27.337m	643.456m	0.010m	9.0	9.179
8608	3018	919.607m	-472.897m	-410.719m	1112.654m	0.011m	10.0	11.370
8608	455	-683.090m	-577.818m	466.582m	1009.051m	0.008m	10.0	6.594
3018	455	-1602.599m	-104.902m	877.393m	1830.067m	0.010m	12.6	9.396
406	410	-154.493m	7.856m	81.410m	174.807m	0.009m	4.6	7.139
PP1001	8601	4072.601m	-1288.339m	-1949.839m	4695.505m	0.008m	79.3	3.293
PP1001	SW1001	249.406m	-58.230m	-121.918m	283.652m	0.005m	7.3	1.134
PP1001	86101	4573.000m	-1643.358m	-2166.336m	5320.335m	0.009m	10.2	0.599
PP1001	700	186.061m	14.612m	-105.382m	214.330m	0.004m	10.5	0.954
PP1001	8602	3915.037m	-1658.073m	-1803.409m	4618.333m	0.010m	14.5	8.098
PP1001	138141	-1909.868m	-9524.489m	2728.807m	10090.088m	0.016m	12.1	1.793
PP1001	1289590	3905.954m	-1551.772m	-1818.553m	4579.477m	0.005m	29.9	1.438
8601	86101	500.403m	-355.015m	-216.497m	650.623m	0.006m	61.0	2.831
8601	8602	-157.565m	-369.734m	146.431m	427.753m	0.011m	12.3	9.877
8601	1289590	-166.643m	-263.433m	131.292m	338.238m	0.007m	15.2	3.623
SW1001	2622	-1937.614m	-1773.878m	1356.108m	2956.352m	0.006m	48.8	1.874
SW1001	700	-63.345m	72.843m	16.536m	97.939m	0.004m	37.4	0.993
SW1001	1289590	3656.554m	-1493.539m	-1696.624m	4298.788m	0.005m	10.4	1.715
2622	700	1874.266m	1846.719m	-1339.576m	2952.577m	0.004m	13.2	1.414
86101	138141	-6482.870m	-7881.130m	4895.164m	11318.235m	0.015m	20.7	2.100
PP1001	86106	1707.789m	-1252.966m	-694.271m	2229.009m	0.009m	11.2	7.768
PP1001	3020	2452.776m	-2539.936m	-864.630m	3635.240m	0.014m	4.2	18.601
138141	3020	4362.637m	6984.550m	-3593.490m	8984.971m	0.039m	7.2	13.875
128851.1	138141	-11323.984m	-6104.327m	7181.339m	14733.196m	0.017m	14.4	2.182
128851.1	2622	-11102.446m	1588.004m	5686.496m	12574.669m	0.019m	13.0	2.871

86106	128851.1	7706.368m	-2167.184m	-3758.119m	8843.543m	0.020m	9.6	2.585
128851.1	SW1001	-9164.762m	3361.911m	4330.517m	10679.357m	0.015m	11.1	1.795
128851.1	700	-9228.098m	3434.753m	4347.054m	10763.466m	0.015m	11.1	1.804
86101	128851.1	4841.107m	-1776.799m	-2286.106m	5640.888m	0.014m	18.7	1.887
138141	1006	3034.861m	6335.934m	-2763.722m	7549.344m	0.027m	17.8	7.215
SW1001	138141	-2159.254m	-9466.251m	2850.767m	10119.247m	0.011m	26.9	1.137
1006	2622	-2812.949m	1356.526m	1269.578m	3371.153m	0.010m	6.8	8.515
PP1001	1006	1124.764m	-3188.636m	-35.333m	3381.382m	0.010m	26.3	12.898
1289590	1006	-2781.206m	-1636.864m	1783.194m	3687.033m	0.010m	22.5	9.782
2622	138141	-221.646m	-7692.369m	1494.647m	7839.364m	0.015m	4.5	1.857
2622	1289590	5594.165m	280.333m	-3052.730m	6379.062m	0.012m	4.4	1.322
86101	8602	-657.966m	-14.718m	362.924m	751.565m	0.011m	18.6	10.781
86101	1289590	-667.050m	91.584m	347.790m	757.827m	0.004m	12.9	1.740
86106	3020	745.022m	-1286.961m	-170.325m	1496.775m	0.016m	4.6	18.076
86106	138141	-3617.602m	-8271.511m	3423.162m	9655.205m	0.019m	7.6	2.917
86106	1289590	2198.203m	-298.794m	-1124.225m	2487.017m	0.013m	4.7	15.171
700	138141	-2095.913m	-9539.091m	2834.233m	10169.561m	0.017m	3.0	2.645
700	1289590	3719.900m	-1566.382m	-1713.160m	4384.761m	0.006m	14.2	3.137
8602	1289590	-9.077m	106.302m	-15.130m	107.756m	0.011m	9.0	11.220
138141	1289590	5815.803m	7972.703m	-4547.392m	10865.833m	0.017m	12.8	2.767
PP1001	2622	-1688.208m	-1832.108m	1234.187m	2780.266m	0.003m	42.5	0.725
1289590	3020	-1453.184m	-988.164m	953.909m	1999.538m	0.014m	8.1	17.636
128851.1	3020	-6961.358m	880.219m	3587.776m	7880.827m	0.041m	7.7	14.046
8607	8601	2166.447m	472.632m	-1240.386m	2540.754m	0.007m	29.3	3.314
8607	8604	1476.426m	-72.539m	-771.849m	1667.588m	0.006m	7.3	2.318
8607	PP1001	-1906.156m	1760.971m	709.436m	2690.307m	0.011m	59.1	7.381
8607	10000	-2151.592m	1565.382m	878.177m	2801.957m	0.012m	48.2	9.961
8607	8603	1784.015m	-54.974m	-942.679m	2018.508m	0.005m	15.4	2.271
8607	86110	-461.909m	830.812m	96.012m	955.420m	0.013m	8.9	15.898
86106	8602	2207.308m	-405.050m	-1108.979m	2503.219m	0.011m	11.4	7.622
8601	8608	-2333.912m	-643.148m	1359.855m	2776.687m	0.010m	6.1	7.437
128851.1	1289590	-5508.150m	1868.386m	2633.968m	6385.012m	0.015m	20.9	1.653
PP1001	128851.1	9414.130m	-3420.150m	-4452.428m	10961.176m	0.015m	18.0	2.128
8601	128851.1	5341.526m	-2131.813m	-2502.574m	6272.113m	0.015m	13.1	1.989
138141	8602	5825.000m	7866.415m	-4532.246m	10786.675m	0.021m	18.3	3.476
2622	3020	4140.943m	-707.838m	-2098.849m	4696.127m	0.010m	6.2	11.967
302	8617	-839.661m	666.835m	331.942m	1122.446m	0.012m	3.9	12.234
PP1001	86110	1444.239m	-930.159m	-613.442m	1824.098m	0.011m	6.7	12.712
SODE.0	128851.1	15676.164m	-13475.128m	-6052.358m	21539.550m	0.015m	10.9	2.180
86106	86110	-263.515m	322.814m	80.867m	424.486m	0.010m	8.0	8.691
3020	8606	49.286m	759.243m	-163.670m	778.246m	0.010m	8.5	6.631
3020	8604	929.685m	706.431m	-616.619m	1320.446m	0.009m	8.2	7.075

3020	8603	1237.209m	724.001m	-787.384m	1635.493m	0.008m	8.1	5.151
8604	3018	-724.393m	-570.831m	480.343m	1039.866m	0.008m	7.9	6.922
128851.1	8602	-5499.054m	1762.084m	2649.036m	6353.104m	0.020m	11.6	3.048
8601	138141	-5982.472m	-8236.150m	4678.670m	11203.307m	0.013m	11.0	1.480
8617	86110	971.791m	211.058m	-561.764m	1142.148m	0.012m	3.0	13.783
8617	86106	1235.314m	-111.755m	-642.643m	1396.953m	0.009m	14.7	9.422
3020	1006	-1328.105m	-648.706m	829.236m	1694.790m	0.016m	5.0	16.248
10000	86110	1689.672m	-734.567m	-782.170m	2001.592m	0.011m	5.2	11.183
8607	86106	-198.406m	507.986m	15.087m	545.566m	0.017m	13.7	16.031
138141	SODE.0	-4352.148m	19579.468m	-1128.863m	20089.079m	0.013m	23.2	1.445
2622	SODE.0	-4573.530m	11887.159m	366.219m	12741.893m	0.007m	32.1	0.442
SODE.0	PP1001	6262.027m	-10054.975m	-1599.923m	11953.044m	0.005m	70.5	0.186
SODE.0	86101	10835.001m	-11698.347m	-3766.309m	16383.945m	0.006m	73.0	0.282
SODE.0	1289590	10167.982m	-11606.754m	-3418.476m	15804.764m	0.007m	62.2	0.437

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# Network Adjustment Report

## *Project : Forsmark01*

<b>User name</b>	shol	<b>Date &amp; Time</b>	14:44:43 12.12.2007
<b>Coordinate System</b>	Sweden (RT-90)	<b>Zone</b>	2.5 GON V 0;-15
<b>Project Datum</b>	Sweden RT-90 (SWEREF 99)		
<b>Vertical Datum</b>		<b>Geoid Model</b>	SWEN01L (Sweden)
<b>Coordinate Units</b>	Meters		
<b>Distance Units</b>	Meters		
<b>Height Units</b>	Meters		

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## Adjustment Style Settings - 99% Confidence Limits

### Residual Tolerances

To End Iterations : 0.000010m  
Final Convergence Cutoff : 0.005000m

### Covariance Display

#### Horizontal

Propagated Linear Error [E] : U.S.  
Constant Term [C] : 0.00000000m  
Scale on Linear Error [S] : 2.58

#### Three-Dimensional

Propagated Linear Error [E] : U.S.  
Constant Term [C] : 0.00000000m  
Scale on Linear Error [S] : 2.58  
Elevation Errors were used in the calculations.

### Adjustment Controls

Compute Correlations for Geoid : False  
Horizontal and Vertical adjustment performed

### Set-up Errors

#### GPS

Error in Height of Antenna : 0.005m  
Centering Error : 0.005m

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## Statistical Summary

**Successful Adjustment in 1 iteration(s)**

Network Reference Factor : 1.00

Chi Square Test ( $\alpha=95\%$ ) : PASS

Degrees of Freedom : 351.00

**GPS Observation Statistics**

Reference Factor : 1.00

Redundancy Number (r) : 351.00

**Individual GPS Observation Statistics**

Observation ID	Reference Factor	Redundancy Number
B1	0.17	2.44
B2	0.56	2.26
B3	0.50	2.69
B10	0.41	2.19
B11	0.67	2.70
B12	0.49	2.61
B13	0.27	2.17
B14	0.63	2.28
B15	0.98	2.44
B16	1.64	2.71
B17	0.16	2.04
B18	0.53	2.26
B19	0.08	2.19
B21	0.51	2.49
B22	1.32	2.73
B23	0.78	2.49
B24	0.71	2.40
B25	0.78	2.39
B26	0.84	2.19
B27	1.13	2.47
B28	1.31	2.41
B29	1.02	2.79
B30	0.95	2.68
B31	1.75	2.73
B32	1.48	2.57
B33	0.97	2.67
B34	0.91	2.40

B35	0.96	2.65
B36	1.03	2.68
B37	0.83	2.53
B38	0.75	2.29
B39	1.36	2.73
B40	2.00	2.54
B41	0.45	2.59
B42	0.39	2.47
B43	1.34	2.51
B44	0.82	2.28
B45	0.76	2.75
B46	1.53	2.83
B47	1.57	2.67
B48	0.24	2.38
B49	0.25	2.20
B50	0.51	2.59
B51	0.98	2.55
B52	0.47	2.61
B53	0.19	2.25
B54	0.73	2.41
B55	0.12	2.21
B56	0.79	2.46
B57	1.02	2.37
B58	1.07	2.67
B59	1.07	2.53
B60	0.30	2.43
B61	0.89	2.64
B62	0.40	2.33
B63	1.11	2.56
B64	0.39	2.21
B65	0.92	2.37
B66	0.20	2.10
B67	0.67	2.43
B68	0.47	2.13
B69	0.73	2.12
B70	0.99	2.47
B71	1.20	2.79

B72	0.60	2.30
B73	0.77	2.36
B74	1.01	2.15
B76	0.74	2.43
B77	0.76	2.39
B79	0.99	2.76
B81	0.74	2.43
B82	0.75	2.39
B83	0.13	2.12
B84	1.14	2.67
B86	0.72	2.52
B87	0.33	2.30
B88	2.04	2.24
B89	0.42	2.20
B90	2.80	2.64
B91	0.23	2.32
B92	0.31	2.33
B94	0.96	2.11
B95	0.14	2.00
B96	0.39	2.20
B97	0.19	2.10
B98	2.74	2.27
B99	1.36	2.56
B100	1.74	2.16
B102	1.07	2.37
B104	2.71	2.52
B106	1.31	2.25
B107	1.70	2.31
B108	0.31	2.17
B109	0.46	2.22
B110	0.70	2.26
B111	0.67	2.08
B113	0.63	1.86
B114	0.63	2.21
B115	0.56	2.28
B116	0.75	2.13
B117	0.96	1.95

B118	0.48	1.97
B119	1.81	2.59
B120	2.26	2.09
B121	0.41	2.39
B122	0.58	2.14
B123	0.76	2.15
B127	0.20	2.17
B128	0.43	2.59
B129	0.33	2.32
B130	0.17	2.17
B131	0.93	2.55
B132	0.50	2.09
B133	0.41	1.99
B134	0.27	2.10
B135	0.28	2.35
B137	0.50	2.40
B138	1.46	2.47
B139	1.32	2.34
B140	0.98	2.30
B141	1.48	2.38
B142	1.60	2.66
B144	0.77	2.13
B145	0.47	2.30
B146	1.52	2.45
B147	0.62	2.24
B148	1.59	2.51
B152	0.71	2.53
B153	0.52	2.43
B154	0.37	2.16
B155	0.98	2.56
B156	0.67	2.41
B157	1.43	2.39
B158	0.68	2.53
B159	0.22	2.15
B160	0.70	2.43
B161	0.96	2.41
B162	0.80	2.04

B163	0.33	2.02
B164	0.66	2.13
B165	0.25	2.21
B166	1.10	2.41
B170	1.13	1.98
B171	1.20	2.56
B172	1.39	2.31
B177	0.35	2.52
B178	1.12	2.39
B179	0.25	2.31

## Weighting Strategies

### GPS Observations

User-defined Scalar Applied to All Observations

Scalar : 1.63

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## Adjusted Coordinates

Adjustment performed in **WGS-84**

Number of Points : 32

Number of Constrained Points : 0

### Adjusted Grid Coordinates

Errors are reported using  $2.58\sigma$ .

Point Name	Northing	N error	Easting	E error	Elevation	e error	Fix
PP1001	6701362.663m	0.004m	1632367.501m	0.004m	N/A	N/A	
8601	6697296.603m	0.007m	1630017.202m	0.006m	N/A	N/A	
SW1001	6701107.524m	0.008m	1632243.443m	0.008m	N/A	N/A	
1006	6701159.323m	0.007m	1628991.536m	0.006m	N/A	N/A	
2622	6703819.090m	0.006m	1631063.972m	0.005m	N/A	N/A	
86101	6696855.008m	0.008m	1629539.268m	0.008m	N/A	N/A	
86106	6699887.391m	0.006m	1630695.935m	0.006m	N/A	N/A	
700	6701151.447m	0.008m	1632330.907m	0.008m	N/A	N/A	
3020	6699484.680m	0.007m	1629254.037m	0.006m	N/A	N/A	
8602	6697588.377m	0.007m	1629704.316m	0.007m	N/A	N/A	

128851.1	6692095.533m	0.007m	1626509.469m	0.006m	N/A	N/A
138141	6706565.007m	0.007m	1623719.593m	0.006m	N/A	N/A
1289590	6697563.318m	0.006m	1629809.131m	0.006m	N/A	N/A
455	6701012.678m	0.007m	1629664.431m	0.006m	N/A	N/A
302	6700503.457m	0.009m	1630269.464m	0.008m	N/A	N/A
8607	6699834.238m	0.005m	1630152.846m	0.005m	N/A	N/A
8604	6698234.628m	0.008m	1629680.473m	0.008m	N/A	N/A
267	6702847.784m	0.009m	1630945.903m	0.009m	N/A	N/A
10000	6701697.735m	0.007m	1632246.077m	0.007m	N/A	N/A
303	6700875.174m	0.010m	1630368.158m	0.009m	N/A	N/A
8603	6697888.687m	0.008m	1629613.592m	0.008m	N/A	N/A
8617	6701212.123m	0.006m	1631140.213m	0.005m	N/A	N/A
86112	6700071.394m	0.010m	1631078.558m	0.009m	N/A	N/A
266	6702506.103m	0.009m	1631683.015m	0.009m	N/A	N/A
8608	6700073.692m	0.008m	1630034.405m	0.008m	N/A	N/A
111	6700443.714m	0.008m	1629655.865m	0.007m	N/A	N/A
405	6701235.207m	0.016m	1629971.230m	0.012m	N/A	N/A
8606	6699182.663m	0.009m	1629971.469m	0.008m	N/A	N/A
410	6701095.472m	0.011m	1630058.379m	0.009m	N/A	N/A
3018	6699213.330m	0.008m	1629328.607m	0.007m	N/A	N/A
406	6700927.849m	0.011m	1630008.719m	0.009m	N/A	N/A
SODE.0	6705011.497m	0.009m	1643752.932m	0.008m	N/A	N/A

## Adjusted Geodetic Coordinates

Errors are reported using  $2.58\sigma$ .

Point Name	Latitude	N error	Longitude	E error	Height	h error	Fix
PP1001	60° 24'30.45576"N	0.004m	18° 12'26.31831"E	0.004m	24.205m	0.006m	
8601	60° 22'21.93316"N	0.007m	18° 09'43.42905"E	0.006m	42.044m	0.008m	
SW1001	60° 24'22.36533"N	0.008m	18° 12'17.61507"E	0.008m	26.201m	0.010m	
1006	60° 24'27.81430"N	0.007m	18° 08'45.50481"E	0.006m	29.958m	0.012m	
2622	60° 25'51.28169"N	0.006m	18° 11'07.03443"E	0.005m	23.417m	0.007m	
86101	60° 22'08.22778"N	0.008m	18° 09'11.24383"E	0.008m	34.233m	0.010m	

86106	60° 23'44.78523"N	0.006m	18° 10'33.75614"E	0.006m	28.605m	0.008m
700	60° 24'23.68037"N	0.008m	18° 12'23.42753"E	0.008m	22.101m	0.010m
3020	60° 23'33.45005"N	0.007m	18° 08'58.74834"E	0.006m	32.063m	0.010m
8602	60° 22'31.71334"N	0.007m	18° 09'23.70871"E	0.007m	38.366m	0.009m
128851.1	60° 19'38.01331"N	0.007m	18° 05'42.94953"E	0.006m	50.290m	0.019m
138141	60° 27'28.26171"N	0.007m	18° 03'13.44674"E	0.006m	39.605m	0.011m
1289590	60° 22'30.78358"N	0.006m	18° 09'30.48450"E	0.006m	37.312m	0.008m
455	60° 24'22.30636"N	0.007m	18° 09'29.08031"E	0.006m	25.297m	0.008m
302	60° 24'05.16814"N	0.009m	18° 10'07.37423"E	0.008m	27.556m	0.012m
8607	60° 23'43.69883"N	0.005m	18° 09'58.19978"E	0.005m	30.303m	0.007m
8604	60° 22'52.60385"N	0.008m	18° 09'23.65751"E	0.008m	41.271m	0.010m
267	60° 25'20.06334"N	0.009m	18° 10'57.03361"E	0.009m	23.871m	0.009m
10000	60° 24'41.41538"N	0.007m	18° 12'19.19022"E	0.007m	25.633m	0.008m
303	60° 24'17.05385"N	0.010m	18° 10'14.68519"E	0.009m	26.322m	0.010m
8603	60° 22'41.51278"N	0.008m	18° 09'18.49151"E	0.008m	39.919m	0.010m
8617	60° 24'27.03383"N	0.006m	18° 11'05.86295"E	0.005m	24.945m	0.007m
86112	60° 23'50.28022"N	0.010m	18° 10'59.15212"E	0.009m	24.992m	0.015m
266	60° 25'08.17198"N	0.009m	18° 11'44.35271"E	0.009m	25.655m	0.009m
8608	60° 23'51.56605"N	0.008m	18° 09'51.03185"E	0.008m	29.150m	0.012m
111	60° 24'03.94835"N	0.008m	18° 09'27.19553"E	0.007m	30.291m	0.010m
405	60° 24'29.13611"N	0.016m	18° 09'49.62279"E	0.012m	29.174m	0.017m
8606	60° 23'22.87370"N	0.009m	18° 09'44.84577"E	0.008m	29.793m	0.010m



410	60° 24'24.52434"N	0.011m	18° 09'54.98401"E	0.009m	27.812m	0.012m
3018	60° 23'24.60432"N	0.008m	18° 09'02.98289"E	0.007m	30.803m	0.013m
406	60° 24'19.17040"N	0.011m	18° 09'51.35131"E	0.009m	28.274m	0.011m
SODE.0	60° 26'14.25155"N	0.009m	18° 24'58.72872"E	0.008m	40.618m	0.021m

## Coordinate Deltas

Point Name	ΔNorthing	ΔEasting	ΔElevation	ΔHeight	ΔGeoid Separation
PP1001	0.000m	0.000m	N/A	0.000m	N/A
8601	0.000m	0.000m	N/A	0.000m	N/A
SW1001	0.000m	0.000m	N/A	0.000m	N/A
1006	0.000m	0.000m	N/A	0.000m	N/A
2622	0.000m	0.000m	N/A	0.000m	N/A
86101	0.000m	0.000m	N/A	0.000m	N/A
86106	0.000m	0.000m	N/A	0.000m	N/A
700	0.000m	0.000m	N/A	0.000m	N/A
3020	0.000m	0.000m	N/A	0.000m	N/A
8602	0.000m	0.000m	N/A	0.000m	N/A
128851.1	0.000m	0.000m	N/A	0.000m	N/A
138141	0.000m	0.000m	N/A	0.000m	N/A
1289590	0.000m	0.000m	N/A	0.000m	N/A
455	0.000m	0.000m	N/A	0.000m	N/A
302	0.001m	0.000m	N/A	0.002m	N/A
8607	0.000m	0.000m	N/A	0.000m	N/A
8604	0.000m	0.000m	N/A	0.000m	N/A
267	0.000m	0.000m	N/A	0.000m	N/A
10000	0.000m	0.000m	N/A	0.000m	N/A
303	0.000m	0.000m	N/A	0.000m	N/A
8603	0.000m	0.000m	N/A	0.000m	N/A
8617	0.000m	0.000m	N/A	0.000m	N/A
86112	0.000m	0.000m	N/A	0.000m	N/A
266	0.000m	0.000m	N/A	0.000m	N/A
8608	0.000m	0.000m	N/A	0.000m	N/A
111	0.000m	0.000m	N/A	0.000m	N/A
405	0.000m	0.000m	N/A	0.000m	N/A

8606	0.000m	0.000m	N/A	0.000m	N/A
410	0.000m	-0.001m	N/A	-0.001m	N/A
3018	0.000m	0.000m	N/A	0.000m	N/A
406	0.000m	0.000m	N/A	0.000m	N/A
SODE.0	0.000m	0.000m	N/A	0.000m	N/A

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## Control Coordinate Comparisons

No control coordinates are present.

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## Adjusted Observations


Adjustment performed in **WGS-84**

### GPS Observations

Number of Observations : 148

Number of Outliers : 1

Observation Adjustment (Critical Tau = 3.82). Any outliers are in **red**.

Obs. ID	From Pt.	To Pt.		Observation	A-posteriori Error (2.58 $\sigma$ )	Residual	Stand. Residual
<b>B98</b> 	<b>302</b>	<b>8608</b>	<b>Az.</b>	<b>210° 43'50.7186"</b>	<b>0°00'04.3126"</b>	<b>-0° 00'06.6686"</b>	<b>-2.28</b>
			<b><math>\Delta</math>Ht.</b>	<b>1.594m</b>	<b>0.016m</b>	<b>-0.055m</b>	<b>-4.36</b>
			<b>Dist.</b>	<b>489.743m</b>	<b>0.011m</b>	<b>0.003m</b>	<b>0.38</b>
B104	8608	3020	Az.	235° 00'19.0477"	0°00'01.9867"	-0° 00'01.7425"	-1.19
			$\Delta$ Ht.	2.913m	0.015m	-0.096m	-3.25
			Dist.	977.500m	0.010m	-0.027m	-3.50
B40	PP1001	138141	Az.	303° 07'06.9029"	0°00'00.1471"	0° 00'00.1147"	0.85
			$\Delta$ Ht.	15.400m	0.012m	0.033m	3.39
			Dist.	10090.028m	0.007m	0.001m	0.14
B120	8608	8606	Az.	186° 05'26.1166"	0°00'02.4016"	0° 00'04.1535"	2.85

			<b>ΔHt.</b>	0.643m	0.015m	0.027m	2.99
			<b>Dist.</b>	893.060m	0.012m	-0.002m	-0.31
B90	8604	86112	<b>Az.</b>	39° 19'14.8981"	0°00'00.9868"	0° 00'00.5692"	0.63
			<b>ΔHt.</b>	-16.278m	0.019m	0.415m	2.94
			<b>Dist.</b>	2307.829m	0.013m	0.154m	2.08
B88	8603	86106	<b>Az.</b>	30° 28'43.9410"	0°00'00.8305"	-0° 00'00.1556"	-0.27
			<b>ΔHt.</b>	-11.314m	0.013m	0.022m	2.84
			<b>Dist.</b>	2272.462m	0.010m	0.015m	2.22
B107	8607	111	<b>Az.</b>	322° 51'27.0408"	0°00'02.3510"	0° 00'02.1820"	1.22
			<b>ΔHt.</b>	-0.012m	0.011m	0.019m	2.72
			<b>Dist.</b>	786.250m	0.009m	0.002m	0.23
B100	8608	455	<b>Az.</b>	340° 32'43.1000"	0°00'01.8968"	0° 00'00.7942"	0.61
			<b>ΔHt.</b>	-3.853m	0.013m	-0.018m	-2.68
			<b>Dist.</b>	1009.031m	0.010m	-0.009m	-1.36
B16	PP1001	86106	<b>Az.</b>	230° 39'26.6131"	0°00'00.6194"	0° 00'00.2001"	0.32
			<b>ΔHt.</b>	4.400m	0.009m	-0.051m	-2.62
			<b>Dist.</b>	2228.991m	0.007m	-0.005m	-0.71
B142	3020	3018	<b>Az.</b>	166° 40'17.2056"	0°00'06.8163"	0° 00'15.2161"	1.90
			<b>ΔHt.</b>	-1.260m	0.016m	0.223m	2.55
			<b>Dist.</b>	281.351m	0.010m	0.023m	1.74
B148	8602	8603	<b>Az.</b>	345° 14'01.3112"	0°00'06.1778"	0° 00'03.8857"	0.83
			<b>ΔHt.</b>	1.553m	0.013m	0.080m	2.53
			<b>Dist.</b>	313.648m	0.010m	-0.008m	-1.08
B157	8617	86106	<b>Az.</b>	200° 36'30.9169"	0°00'01.1569"	0° 00'00.5531"	0.57
			<b>ΔHt.</b>	3.660m	0.010m	-0.017m	-2.45
			<b>Dist.</b>	1396.945m	0.008m	0.003m	0.40
B32	86101	128851.1	<b>Az.</b>	214° 31'11.6432"	0°00'00.3215"	-0° 00'00.3086"	-1.25
			<b>ΔHt.</b>	16.057m	0.021m	0.032m	0.37
			<b>Dist.</b>	5640.846m	0.010m	0.018m	2.45
B146	8607	8602	<b>Az.</b>	193° 20'45.8188"	0°00'00.7273"	0° 00'00.7828"	1.25

			<b>ΔHt.</b>	8.063m	0.011m	-0.021m	-2.40
			<b>Dist.</b>	2289.726m	0.009m	0.002m	0.26
B47	128851.1	138141	<b>Az.</b>	351° 04'37.2145"	0°00'00.1086"	-0° 00'00.0780"	-0.79
			<b>ΔHt.</b>	-10.685m	0.022m	-0.079m	-0.95
			<b>Dist.</b>	14733.073m	0.009m	-0.019m	-2.39
B31	128851.1	2622	<b>Az.</b>	23° 13'15.0795"	0°00'00.1240"	0° 00'00.2125"	1.78
			<b>ΔHt.</b>	-26.873m	0.020m	0.150m	0.56
			<b>Dist.</b>	12574.548m	0.009m	-0.022m	-2.34
B170	SODE.0	PP1001	<b>Az.</b>	254° 30'01.8327"	0°00'00.1544"	-0° 00'00.0014"	-0.01
			<b>ΔHt.</b>	-16.414m	0.021m	-0.016m	-2.29
			<b>Dist.</b>	11952.978m	0.009m	0.005m	0.71
B141	8603	3018	<b>Az.</b>	349° 54'02.4545"	0°00'01.5013"	0° 00'00.0753"	0.07
			<b>ΔHt.</b>	-9.116m	0.016m	-0.041m	-2.23
			<b>Dist.</b>	1354.667m	0.010m	0.001m	0.09
B39	138141	1006	<b>Az.</b>	137° 40'21.5354"	0°00'00.2424"	0° 00'00.0936"	0.38
			<b>ΔHt.</b>	-9.647m	0.017m	-0.557m	-2.22
			<b>Dist.</b>	7549.297m	0.008m	0.000m	-0.06
B22	2622	3020	<b>Az.</b>	204° 43'59.4678"	0°00'00.3469"	-0° 00'00.3935"	-0.96
			<b>ΔHt.</b>	8.646m	0.013m	0.053m	0.80
			<b>Dist.</b>	4696.124m	0.009m	0.025m	2.19
B46	138141	8602	<b>Az.</b>	148° 15'47.9207"	0°00'00.1750"	-0° 00'01.3880"	-2.17
			<b>ΔHt.</b>	-1.239m	0.014m	-0.043m	-1.48
			<b>Dist.</b>	10786.554m	0.009m	-0.057m	-2.18
B172	SODE.0	86101	<b>Az.</b>	242° 25'13.9344"	0°00'00.1264"	-0° 00'00.0964"	-1.22
			<b>ΔHt.</b>	-6.386m	0.023m	0.047m	2.04
			<b>Dist.</b>	16383.854m	0.010m	0.001m	0.20
B28	128851.1	SW1001	<b>Az.</b>	34° 27'24.7334"	0°00'00.1788"	0° 00'00.1818"	1.32
			<b>ΔHt.</b>	-24.089m	0.021m	-0.003m	-0.15
			<b>Dist.</b>	10679.250m	0.010m	-0.018m	-2.01
B139	8604	3018	<b>Az.</b>	342° 16'07.8831"	0°00'02.0144"	0° 00'00.2126"	0.15

			<b>ΔHt.</b>	-10.468m	0.016m	-0.030m	-1.95
			<b>Dist.</b>	1039.813m	0.010m	0.005m	0.75
B138	3018	455	<b>Az.</b>	12° 36'38.3402"	0°00'01.0262"	-0° 00'01.4242"	-1.92
			<b>ΔHt.</b>	-5.506m	0.015m	-0.008m	-0.65
			<b>Dist.</b>	1830.032m	0.011m	-0.018m	-1.57
B63	8607	PP1001	<b>Az.</b>	57° 26'27.8619"	0°00'00.5204"	-0° 00'00.1208"	-0.23
			<b>ΔHt.</b>	-6.098m	0.009m	0.014m	1.92
			<b>Dist.</b>	2690.287m	0.007m	-0.001m	-0.13
B99	8607	8608	<b>Az.</b>	335° 44'01.7390"	0°00'07.0184"	0° 00'05.4591"	1.00
			<b>ΔHt.</b>	-1.153m	0.014m	-0.014m	-0.48
			<b>Dist.</b>	267.088m	0.009m	-0.014m	-1.89
B106	302	111	<b>Az.</b>	266° 29'36.0211"	0°00'03.7043"	-0° 00'02.0317"	-0.88
			<b>ΔHt.</b>	2.735m	0.015m	-0.012m	-1.05
			<b>Dist.</b>	616.370m	0.010m	0.012m	1.88
B119	3020	8606	<b>Az.</b>	114° 52'02.1529"	0°00'03.0167"	0° 00'17.4539"	1.84
			<b>ΔHt.</b>	-2.270m	0.014m	-0.002m	-0.08
			<b>Dist.</b>	778.246m	0.009m	0.007m	0.80
B178	138141	SODE.0	<b>Az.</b>	96° 23'22.4297"	0°00'00.0984"	0° 00'00.0375"	0.57
			<b>ΔHt.</b>	1.014m	0.023m	-0.041m	-1.72
			<b>Dist.</b>	20088.963m	0.009m	0.002m	0.25
B57	8602	1289590	<b>Az.</b>	105° 29'20.8302"	0°00'16.7638"	-0° 00'01.6386"	-0.13
			<b>ΔHt.</b>	-1.054m	0.011m	-0.013m	-1.71
			<b>Dist.</b>	107.746m	0.008m	-0.004m	-0.61
B29	128851.1	1006	<b>Az.</b>	17° 18'16.3823"	0°00'00.1820"	0° 00'00.1046"	0.49
			<b>ΔHt.</b>	-20.332m	0.023m	-0.006m	-0.16
			<b>Dist.</b>	9395.565m	0.010m	0.027m	1.70
B36	128851.1	8602	<b>Az.</b>	32° 10'24.5091"	0°00'00.2785"	-0° 00'00.3336"	-1.06
			<b>ΔHt.</b>	-11.924m	0.020m	-0.038m	-1.70
			<b>Dist.</b>	6353.085m	0.010m	0.036m	1.19
B51	PP1001	1289590	<b>Az.</b>	216° 02'34.7612"	0°00'00.2943"	0° 00'00.1286"	0.43

			<b>ΔHt.</b>	13.108m	0.008m	0.011m	1.64
			<b>Dist.</b>	4579.434m	0.007m	-0.002m	-0.28
B79	3020	1006	<b>Az.</b>	353° 07'45.0216"	0°00'00.9658"	-0° 00'02.9312"	-1.34
			<b>ΔHt.</b>	-2.105m	0.015m	0.049m	1.62
			<b>Dist.</b>	1694.736m	0.009m	-0.045m	-1.43
B74	8604	8603	<b>Az.</b>	192° 59'07.8299"	0°00'05.5397"	-0° 00'00.1702"	-0.05
			<b>ΔHt.</b>	-1.352m	0.012m	0.012m	1.61
			<b>Dist.</b>	352.273m	0.010m	-0.004m	-0.71
B15	1006	86106	<b>Az.</b>	128° 46'02.3409"	0°00'00.8220"	-0° 00'01.0560"	-1.59
			<b>ΔHt.</b>	-1.353m	0.014m	0.002m	0.20
			<b>Dist.</b>	2126.234m	0.008m	-0.004m	-0.60
B155	8617	PP1001	<b>Az.</b>	85° 04'32.3952"	0°00'01.2136"	-0° 00'00.4369"	-0.40
			<b>ΔHt.</b>	-0.741m	0.009m	0.014m	1.59
			<b>Dist.</b>	1236.217m	0.007m	0.002m	0.31
B166	406	410	<b>Az.</b>	18° 33'10.7118"	0°00'12.2876"	-0° 00'08.0693"	-1.02
			<b>ΔHt.</b>	-0.461m	0.014m	0.033m	1.56
			<b>Dist.</b>	174.788m	0.014m	-0.018m	-0.92
B30	PP1001	128851.1	<b>Az.</b>	214° 23'07.8507"	0°00'00.1317"	-0° 00'00.0967"	-0.76
			<b>ΔHt.</b>	26.085m	0.020m	0.012m	0.20
			<b>Dist.</b>	10961.093m	0.008m	0.011m	1.54
B171	2622	SODE.0	<b>Az.</b>	86° 42'04.0612"	0°00'00.1543"	-0° 00'00.2865"	-0.94
			<b>ΔHt.</b>	17.201m	0.022m	-0.554m	-1.53
			<b>Dist.</b>	12741.844m	0.009m	0.025m	1.28
B61	8607	455	<b>Az.</b>	339° 32'24.6755"	0°00'01.3204"	0° 00'00.4870"	0.35
			<b>ΔHt.</b>	-5.005m	0.010m	0.017m	1.48
			<b>Dist.</b>	1275.374m	0.008m	-0.001m	-0.11
B59	138141	1289590	<b>Az.</b>	147° 52'36.5508"	0°00'00.1415"	-0° 00'00.0086"	-0.07
			<b>ΔHt.</b>	-2.293m	0.012m	0.017m	1.47
			<b>Dist.</b>	10865.776m	0.007m	0.007m	1.10
B84	8607	86106	<b>Az.</b>	86° 27'44.2278"	0°00'02.8901"	-0° 00'02.3647"	-0.92

			<b>ΔHt.</b>	-1.698m	0.010m	0.051m	1.46
			<b>Dist.</b>	545.567m	0.007m	0.006m	0.95
B161	302	406	<b>Az.</b>	330° 29'16.9732"	0°00'04.9358"	-0° 00'04.3570"	-0.54
			<b>ΔHt.</b>	0.718m	0.014m	0.013m	1.45
			<b>Dist.</b>	497.987m	0.013m	-0.016m	-0.62
B117	8604	8606	<b>Az.</b>	19° 06'26.0325"	0°00'02.0816"	0° 00'00.4791"	0.39
			<b>ΔHt.</b>	-11.478m	0.012m	-0.008m	-1.45
			<b>Dist.</b>	991.479m	0.011m	0.005m	0.81
B43	86106	138141	<b>Az.</b>	315° 48'28.6462"	0°00'00.1766"	0° 00'00.2318"	1.44
			<b>ΔHt.</b>	11.000m	0.013m	-0.016m	-1.31
			<b>Dist.</b>	9655.149m	0.008m	0.001m	0.19
B33	86106	128851.1	<b>Az.</b>	210° 18'30.7904"	0°00'00.1879"	-0° 00'00.2508"	-1.40
			<b>ΔHt.</b>	21.685m	0.021m	0.019m	0.63
			<b>Dist.</b>	8843.471m	0.009m	0.008m	0.83
B58	128851.1	1289590	<b>Az.</b>	33° 05'57.9173"	0°00'00.2394"	0° 00'00.1782"	0.82
			<b>ΔHt.</b>	-12.978m	0.020m	-0.096m	-1.40
			<b>Dist.</b>	6384.949m	0.008m	-0.006m	-0.82
B70	302	1006	<b>Az.</b>	299° 13'21.2035"	0°00'01.5404"	0° 00'01.3461"	1.12
			<b>ΔHt.</b>	2.402m	0.016m	0.017m	0.84
			<b>Dist.</b>	1436.102m	0.010m	0.010m	1.39
B131	302	410	<b>Az.</b>	342° 25'50.1532"	0°00'03.7361"	-0° 00'00.2217"	-0.06
			<b>ΔHt.</b>	0.256m	0.016m	0.027m	1.34
			<b>Dist.</b>	628.388m	0.013m	0.015m	0.94
B27	8601	128851.1	<b>Az.</b>	216° 02'39.5394"	0°00'00.2762"	-0° 00'00.4091"	-1.34
			<b>ΔHt.</b>	8.246m	0.020m	0.001m	0.03
			<b>Dist.</b>	6272.082m	0.010m	0.020m	0.92
B65	8607	10000	<b>Az.</b>	50° 22'30.7695"	0°00'00.6262"	0° 00'00.0707"	0.15
			<b>ΔHt.</b>	-4.670m	0.010m	0.010m	1.33
			<b>Dist.</b>	2801.935m	0.009m	-0.005m	-0.81
B73	8607	8603	<b>Az.</b>	197° 32'37.8547"	0°00'00.8596"	0° 00'00.0192"	0.03

			<b>ΔHt.</b>	9.616m	0.011m	-0.011m	-1.32
			<b>Dist.</b>	2018.474m	0.009m	0.000m	-0.05
B71	8607	1006	<b>Az.</b>	320° 49'14.6858"	0°00'00.9518"	0° 00'05.9739"	0.85
			<b>ΔHt.</b>	-0.345m	0.013m	-0.077m	-0.98
			<b>Dist.</b>	1761.584m	0.008m	0.050m	1.31
B94	86106	86112	<b>Az.</b>	66° 22'40.1187"	0°00'04.9039"	-0° 00'04.0790"	-1.31
			<b>ΔHt.</b>	-3.613m	0.017m	0.000m	-0.01
			<b>Dist.</b>	424.476m	0.010m	0.007m	1.04
B116	8607	8606	<b>Az.</b>	197° 36'26.8832"	0°00'02.7219"	-0° 00'00.6746"	-0.35
			<b>ΔHt.</b>	-0.510m	0.011m	-0.008m	-1.31
			<b>Dist.</b>	676.205m	0.010m	0.000m	-0.04
B26	86101	8602	<b>Az.</b>	14° 43'25.0646"	0°00'02.5011"	0° 00'01.1130"	0.63
			<b>ΔHt.</b>	4.133m	0.012m	0.009m	1.29
			<b>Dist.</b>	751.553m	0.010m	0.003m	0.50
B44	700	138141	<b>Az.</b>	304° 14'37.3329"	0°00'00.1923"	-0° 00'00.0868"	-0.64
			<b>ΔHt.</b>	17.504m	0.013m	-0.011m	-1.29
			<b>Dist.</b>	10169.497m	0.009m	-0.001m	-0.17
B34	128851.1	700	<b>Az.</b>	34° 43'26.8526"	0°00'00.1780"	0° 00'00.1624"	1.17
			<b>ΔHt.</b>	-28.189m	0.020m	-0.009m	-0.54
			<b>Dist.</b>	10763.357m	0.010m	-0.012m	-1.28
B140	3018	1006	<b>Az.</b>	352° 12'43.0345"	0°00'00.9500"	-0° 00'00.0581"	-0.08
			<b>ΔHt.</b>	-0.845m	0.016m	-0.014m	-1.28
			<b>Dist.</b>	1974.555m	0.010m	0.007m	0.97
B25	PP1001	8602	<b>Az.</b>	217° 17'42.3177"	0°00'00.3465"	-0° 00'00.1553"	-0.53
			<b>ΔHt.</b>	14.161m	0.010m	0.009m	1.28
			<b>Dist.</b>	4618.288m	0.008m	-0.001m	-0.19
B38	SW1001	138141	<b>Az.</b>	304° 42'58.7619"	0°00'00.1927"	-0° 00'00.0019"	-0.01
			<b>ΔHt.</b>	13.404m	0.013m	-0.011m	-1.27
			<b>Dist.</b>	10119.185m	0.009m	-0.002m	-0.32
B35	128851.1	3020	<b>Az.</b>	22° 21'58.8775"	0°00'00.2155"	-0° 00'00.2759"	-1.20



			<b>ΔHt.</b>	-18.227m	0.021m	0.015m	0.61
			<b>Dist.</b>	7880.772m	0.010m	0.016m	1.25
B102	8608	1006	<b>Az.</b>	318° 12'05.0859"	0°00'01.3423"	0° 00'00.6859"	0.63
			<b>ΔHt.</b>	0.808m	0.015m	-0.011m	-1.06
			<b>Dist.</b>	1505.063m	0.009m	-0.009m	-1.23
B56	1289590	3020	<b>Az.</b>	345° 55'50.8892"	0°00'00.8209"	-0° 00'00.0235"	-0.03
			<b>ΔHt.</b>	-5.249m	0.012m	0.012m	1.23
			<b>Dist.</b>	1999.518m	0.008m	-0.002m	-0.29
B144	3018	111	<b>Az.</b>	16° 56'00.4038"	0°00'01.5543"	-0° 00'00.7474"	-0.72
			<b>ΔHt.</b>	-0.512m	0.014m	-0.009m	-1.19
			<b>Dist.</b>	1272.893m	0.010m	0.000m	-0.03
B81	302	8617	<b>Az.</b>	52° 54'49.7642"	0°00'01.8134"	-0° 00'00.7929"	-0.52
			<b>ΔHt.</b>	-2.611m	0.013m	0.012m	1.17
			<b>Dist.</b>	1122.439m	0.010m	0.001m	0.10
B160	8617	2622	<b>Az.</b>	0°23'37.6534"	0°00'00.6077"	-0° 00'00.2086"	-0.39
			<b>ΔHt.</b>	-1.528m	0.010m	-0.008m	-1.16
			<b>Dist.</b>	2607.518m	0.008m	0.002m	0.28
B37	8601	138141	<b>Az.</b>	327° 51'14.1646"	0°00'00.1602"	-0° 00'00.0862"	-0.55
			<b>ΔHt.</b>	-2.439m	0.013m	0.013m	1.16
			<b>Dist.</b>	11203.228m	0.009m	-0.009m	-1.05
B67	PP1001	10000	<b>Az.</b>	342° 10'06.8892"	0°00'04.5182"	-0° 00'00.9247"	-0.25
			<b>ΔHt.</b>	1.428m	0.009m	-0.008m	-1.13
			<b>Dist.</b>	356.316m	0.008m	-0.001m	-0.11
B23	86106	3020	<b>Az.</b>	256° 27'21.6497"	0°00'01.1697"	0° 00'01.2035"	1.13
			<b>ΔHt.</b>	3.458m	0.012m	0.012m	1.01
			<b>Dist.</b>	1496.761m	0.008m	-0.003m	-0.45
B162	455	406	<b>Az.</b>	105° 53'11.8064"	0°00'06.7244"	-0° 00'03.8321"	-1.11
			<b>ΔHt.</b>	2.976m	0.011m	-0.005m	-0.75
			<b>Dist.</b>	354.510m	0.009m	-0.003m	-0.42
B156	8617	10000	<b>Az.</b>	68° 21'40.4416"	0°00'01.4492"	-0° 00'00.2277"	-0.21

			<b>ΔHt.</b>	0.687m	0.010m	0.009m	1.10
			<b>Dist.</b>	1207.526m	0.008m	0.001m	0.23
B69	455	303	<b>Az.</b>	103° 06'04.2457"	0°00'02.9228"	0° 00'00.4457"	0.26
			<b>ΔHt.</b>	1.025m	0.011m	-0.007m	-1.09
			<b>Dist.</b>	716.883m	0.009m	-0.004m	-0.60
B45	138141	3020	<b>Az.</b>	143° 56'29.0048"	0°00'00.2020"	-0° 00'00.1495"	-0.65
			<b>ΔHt.</b>	-7.542m	0.015m	0.025m	0.84
			<b>Dist.</b>	8984.907m	0.009m	-0.011m	-1.07
B164	406	8617	<b>Az.</b>	77° 56'51.8144"	0°00'02.0041"	-0° 00'00.5950"	-0.49
			<b>ΔHt.</b>	-3.328m	0.012m	-0.007m	-1.07
			<b>Dist.</b>	1166.408m	0.010m	0.002m	0.33
B152	8602	8601	<b>Az.</b>	135° 02'36.8741"	0°00'03.9771"	-0° 00'01.6253"	-0.50
			<b>ΔHt.</b>	3.678m	0.010m	0.010m	1.06
			<b>Dist.</b>	427.729m	0.008m	0.004m	0.57
B24	8601	8602	<b>Az.</b>	315° 02'54.0164"	0°00'03.9767"	-0° 00'00.1259"	-0.04
			<b>ΔHt.</b>	-3.678m	0.010m	0.007m	1.03
			<b>Dist.</b>	427.729m	0.008m	-0.005m	-0.71
B158	8617	86112	<b>Az.</b>	185° 09'44.4500"	0°00'01.7757"	0° 00'00.5385"	0.41
			<b>ΔHt.</b>	0.047m	0.017m	-0.024m	-1.03
			<b>Dist.</b>	1142.146m	0.011m	0.003m	0.30
B113	405	455	<b>Az.</b>	236° 05'45.5175"	0°00'06.7556"	-0° 00'01.3410"	-0.39
			<b>ΔHt.</b>	-3.877m	0.018m	0.007m	1.02
			<b>Dist.</b>	378.925m	0.016m	0.006m	0.86
B114	405	303	<b>Az.</b>	134° 15'34.9445"	0°00'06.9286"	-0° 00'04.7823"	-0.79
			<b>ΔHt.</b>	-2.852m	0.018m	-0.013m	-0.85
			<b>Dist.</b>	535.774m	0.012m	-0.008m	-0.98
B54	86106	1289590	<b>Az.</b>	202° 56'45.5427"	0°00'00.6314"	0° 00'00.3268"	0.59
			<b>ΔHt.</b>	8.707m	0.010m	-0.007m	-0.97
			<b>Dist.</b>	2486.986m	0.008m	-0.003m	-0.52
B76	8607	3020	<b>Az.</b>	250° 48'01.3417"	0°00'01.6955"	0° 00'00.8973"	0.62

			<b>ΔHt.</b>	1.760m	0.011m	-0.003m	-0.43
			<b>Dist.</b>	964.186m	0.008m	0.007m	0.95
B77	455	3020	<b>Az.</b>	197° 04'44.3594"	0°00'01.0665"	-0° 00'00.0557"	-0.06
			<b>ΔHt.</b>	6.766m	0.012m	0.009m	0.93
			<b>Dist.</b>	1581.817m	0.009m	0.006m	0.81
B123	8601	8603	<b>Az.</b>	327° 46'00.1432"	0°00'02.6704"	0° 00'01.6364"	0.92
			<b>ΔHt.</b>	-2.125m	0.011m	-0.001m	-0.24
			<b>Dist.</b>	716.413m	0.009m	0.005m	0.87
B110	3020	111	<b>Az.</b>	24° 46'15.8165"	0°00'01.7696"	0° 00'01.1946"	0.91
			<b>ΔHt.</b>	-1.772m	0.013m	-0.002m	-0.30
			<b>Dist.</b>	1039.594m	0.010m	0.004m	0.63
B147	8602	8604	<b>Az.</b>	359° 55'49.7524"	0°00'03.0162"	0° 00'01.1619"	0.57
			<b>ΔHt.</b>	2.905m	0.013m	0.007m	0.91
			<b>Dist.</b>	646.554m	0.010m	-0.002m	-0.30
B122	8601	8604	<b>Az.</b>	342° 18'04.2515"	0°00'01.9467"	-0° 00'00.1544"	-0.12
			<b>ΔHt.</b>	-0.773m	0.011m	-0.003m	-0.44
			<b>Dist.</b>	996.422m	0.010m	0.005m	0.88
B82	8617	455	<b>Az.</b>	264° 22'19.4328"	0°00'01.1257"	0° 00'00.5955"	0.66
			<b>ΔHt.</b>	0.352m	0.009m	0.006m	0.87
			<b>Dist.</b>	1488.880m	0.008m	-0.005m	-0.70
B115	405	8617	<b>Az.</b>	93° 10'53.6101"	0°00'03.0381"	-0° 00'02.3683"	-0.87
			<b>ΔHt.</b>	-4.229m	0.018m	-0.013m	-0.79
			<b>Dist.</b>	1168.961m	0.012m	0.006m	0.73
B21	PP1001	3020	<b>Az.</b>	240° 59'25.3817"	0°00'00.4299"	-0° 00'00.0986"	-0.25
			<b>ΔHt.</b>	7.858m	0.011m	0.007m	0.84
			<b>Dist.</b>	3635.216m	0.007m	0.000m	0.06
B86	PP1001	86106	<b>Az.</b>	230° 39'26.6131"	0°00'00.6194"	-0° 00'00.3962"	-0.64
			<b>ΔHt.</b>	4.400m	0.009m	-0.005m	-0.78
			<b>Dist.</b>	2228.991m	0.007m	0.005m	0.77
B14	PP1001	86101	<b>Az.</b>	214° 11'35.0942"	0°00'00.3183"	-0° 00'00.1327"	-0.53

			<b>ΔHt.</b>	10.028m	0.011m	0.005m	0.76
			<b>Dist.</b>	5320.305m	0.008m	0.004m	0.59
B3	PP1001	1006	<b>Az.</b>	268° 38'28.5607"	0°00'00.4817"	-0° 00'00.0361"	-0.09
			<b>ΔHt.</b>	5.753m	0.014m	-0.040m	-0.38
			<b>Dist.</b>	3381.357m	0.007m	-0.005m	-0.75
B41	2622	138141	<b>Az.</b>	292° 34'10.0948"	0°00'00.2079"	0° 00'00.0371"	0.21
			<b>ΔHt.</b>	16.188m	0.013m	-0.002m	-0.14
			<b>Dist.</b>	7839.314m	0.007m	0.005m	0.74
B111	8608	111	<b>Az.</b>	316° 23'54.2993"	0°00'03.8974"	-0° 00'01.8016"	-0.74
			<b>ΔHt.</b>	1.141m	0.013m	-0.005m	-0.71
			<b>Dist.</b>	529.235m	0.010m	-0.004m	-0.59
B2	PP1001	SW1001	<b>Az.</b>	208° 01'07.9464"	0°00'06.2595"	0° 00'01.9043"	0.42
			<b>ΔHt.</b>	1.996m	0.010m	-0.003m	-0.47
			<b>Dist.</b>	283.639m	0.009m	-0.005m	-0.73
B109	1006	111	<b>Az.</b>	139° 09'46.4888"	0°00'01.9503"	-0° 00'00.3929"	-0.29
			<b>ΔHt.</b>	0.333m	0.013m	-0.005m	-0.72
			<b>Dist.</b>	976.231m	0.009m	-0.001m	-0.15
B145	8606	3018	<b>Az.</b>	274° 46'47.7987"	0°00'03.4685"	0° 00'00.5487"	0.25
			<b>ΔHt.</b>	1.010m	0.016m	0.005m	0.36
			<b>Dist.</b>	643.457m	0.010m	0.005m	0.71
B68	302	303	<b>Az.</b>	16° 55'26.2061"	0°00'05.4353"	0° 00'02.3950"	0.71
			<b>ΔHt.</b>	-1.234m	0.014m	0.001m	0.19
			<b>Dist.</b>	384.514m	0.012m	-0.002m	-0.29
B137	8607	3018	<b>Az.</b>	235° 03'39.3524"	0°00'01.6921"	-0° 00'00.6604"	-0.49
			<b>ΔHt.</b>	0.500m	0.014m	-0.007m	-0.71
			<b>Dist.</b>	1031.720m	0.009m	-0.001m	-0.19
B89	8607	86112	<b>Az.</b>	77° 40'57.6309"	0°00'02.2164"	-0° 00'00.2113"	-0.15
			<b>ΔHt.</b>	-5.310m	0.017m	-0.007m	-0.70
			<b>Dist.</b>	955.403m	0.010m	0.002m	0.24
B18	PP1001	700	<b>Az.</b>	191° 55'02.2571"	0°00'08.2704"	0° 00'01.8482"	0.31

			<b>ΔHt.</b>	-2.103m	0.010m	-0.004m	-0.70
			<b>Dist.</b>	214.316m	0.009m	-0.003m	-0.52
B72	455	1006	<b>Az.</b>	284° 20'22.5367"	0°00'02.6981"	-0° 00'00.8466"	-0.42
			<b>ΔHt.</b>	4.661m	0.013m	0.005m	0.69
			<b>Dist.</b>	688.544m	0.008m	-0.004m	-0.62
B121	8607	8601	<b>Az.</b>	185° 06'41.6190"	0°00'00.6364"	-0° 00'00.0299"	-0.06
			<b>ΔHt.</b>	11.741m	0.010m	-0.001m	-0.14
			<b>Dist.</b>	2540.717m	0.008m	0.005m	0.69
B133	303	410	<b>Az.</b>	307° 28'28.6374"	0°00'06.4985"	-0° 00'00.2723"	-0.08
			<b>ΔHt.</b>	1.490m	0.013m	-0.005m	-0.68
			<b>Dist.</b>	380.044m	0.011m	-0.001m	-0.17
B132	410	455	<b>Az.</b>	260° 10'57.5055"	0°00'05.7049"	0° 00'01.4518"	0.44
			<b>ΔHt.</b>	-2.515m	0.013m	0.005m	0.68
			<b>Dist.</b>	402.469m	0.010m	-0.002m	-0.32
B153	8607	8617	<b>Az.</b>	37° 40'36.9220"	0°00'00.9153"	-0° 00'00.2158"	-0.27
			<b>ΔHt.</b>	-5.357m	0.009m	-0.004m	-0.56
			<b>Dist.</b>	1694.765m	0.008m	0.004m	0.67
B12	PP1001	2622	<b>Az.</b>	334° 08'06.8989"	0°00'00.4647"	0° 00'00.0663"	0.13
			<b>ΔHt.</b>	-0.788m	0.008m	0.004m	0.50
			<b>Dist.</b>	2780.260m	0.006m	0.004m	0.66
B52	2622	1289590	<b>Az.</b>	193° 24'40.5875"	0°00'00.2333"	-0° 00'00.1414"	-0.66
			<b>ΔHt.</b>	13.895m	0.010m	-0.002m	-0.19
			<b>Dist.</b>	6379.020m	0.007m	0.003m	0.44
B128	PP1001	2622	<b>Az.</b>	334° 08'06.8989"	0°00'00.4647"	-0° 00'00.3173"	-0.64
			<b>ΔHt.</b>	-0.788m	0.008m	-0.002m	-0.33
			<b>Dist.</b>	2780.260m	0.006m	0.001m	0.15
B11	1006	2622	<b>Az.</b>	39° 57'36.0592"	0°00'00.4958"	0° 00'00.3870"	0.62
			<b>ΔHt.</b>	-6.541m	0.015m	-0.018m	-0.38
			<b>Dist.</b>	3371.130m	0.008m	-0.002m	-0.23
B42	86101	138141	<b>Az.</b>	331° 06'17.1779"	0°00'00.1609"	-0° 00'00.0129"	-0.11

			<b>ΔHt.</b>	5.372m	0.014m	0.011m	0.62
			<b>Dist.</b>	11318.169m	0.009m	-0.001m	-0.08
B10	SW1001	2622	<b>Az.</b>	338° 34'41.8507"	0°00'00.6259"	-0° 00'00.0801"	-0.18
			<b>ΔHt.</b>	-2.784m	0.011m	0.004m	0.62
			<b>Dist.</b>	2956.338m	0.009m	-0.002m	-0.31
B154	8617	267	<b>Az.</b>	355° 17'38.6169"	0°00'01.2148"	0° 00'00.4757"	0.62
			<b>ΔHt.</b>	-1.074m	0.011m	0.001m	0.11
			<b>Dist.</b>	1646.807m	0.010m	-0.001m	-0.16
B50	1289590	1006	<b>Az.</b>	349° 14'10.2289"	0°00'00.4438"	0° 00'00.0363"	0.10
			<b>ΔHt.</b>	-7.354m	0.015m	-0.021m	-0.61
			<b>Dist.</b>	3687.002m	0.008m	-0.004m	-0.57
B118	8603	8606	<b>Az.</b>	17° 30'07.9537"	0°00'01.5252"	0° 00'00.5449"	0.59
			<b>ΔHt.</b>	-10.126m	0.012m	-0.003m	-0.50
			<b>Dist.</b>	1342.269m	0.011m	0.002m	0.29
B129	10000	2622	<b>Az.</b>	332° 57'30.1131"	0°00'00.7076"	-0° 00'00.1316"	-0.24
			<b>ΔHt.</b>	-2.216m	0.010m	0.003m	0.53
			<b>Dist.</b>	2427.951m	0.008m	0.000m	0.04
B96	PP1001	266	<b>Az.</b>	331° 10'57.5706"	0°00'01.4370"	-0° 00'00.4923"	-0.52
			<b>ΔHt.</b>	1.451m	0.010m	-0.002m	-0.40
			<b>Dist.</b>	1332.365m	0.009m	0.001m	0.15
B177	SODE.0	128851.1	<b>Az.</b>	235° 26'05.5127"	0°00'00.0920"	-0° 00'00.0340"	-0.50
			<b>ΔHt.</b>	9.671m	0.028m	-0.001m	-0.02
			<b>Dist.</b>	21539.409m	0.010m	0.003m	0.45
B62	8607	8604	<b>Az.</b>	198° 30'14.6925"	0°00'01.0557"	0° 00'00.0558"	0.07
			<b>ΔHt.</b>	10.968m	0.011m	-0.004m	-0.48
			<b>Dist.</b>	1667.545m	0.009m	0.003m	0.50
B92	10000	86112	<b>Az.</b>	217° 45'36.6357"	0°00'01.0461"	0° 00'00.0265"	0.04
			<b>ΔHt.</b>	-0.640m	0.017m	-0.007m	-0.49
			<b>Dist.</b>	2001.584m	0.011m	0.001m	0.07
B108	111	455	<b>Az.</b>	2°54'26.3225"	0°00'03.2084"	-0° 00'00.7010"	-0.31

			<b>ΔHt.</b>	-4.994m	0.011m	-0.003m	-0.45
			<b>Dist.</b>	568.908m	0.009m	0.000m	-0.01
B134	410	8617	<b>Az.</b>	85° 53'50.4654"	0°00'02.1617"	0° 00'00.0186"	0.01
			<b>ΔHt.</b>	-2.867m	0.013m	0.003m	0.44
			<b>Dist.</b>	1087.872m	0.010m	0.001m	0.18
B163	406	303	<b>Az.</b>	100° 23'16.1976"	0°00'06.9603"	0° 00'00.3016"	0.08
			<b>ΔHt.</b>	-1.951m	0.012m	0.002m	0.31
			<b>Dist.</b>	363.201m	0.010m	0.003m	0.44
B135	410	405	<b>Az.</b>	330° 06'02.6360"	0°00'21.3326"	0° 00'04.9577"	0.22
			<b>ΔHt.</b>	1.362m	0.020m	-0.006m	-0.25
			<b>Dist.</b>	164.648m	0.014m	0.006m	0.43
B64	PP1001	267	<b>Az.</b>	318° 20'24.7401"	0°00'00.9341"	-0° 00'00.2638"	-0.43
			<b>ΔHt.</b>	-0.333m	0.010m	-0.002m	-0.40
			<b>Dist.</b>	2055.404m	0.009m	0.002m	0.35
B13	8601	86101	<b>Az.</b>	229° 18'40.2068"	0°00'02.8829"	-0° 00'00.0449"	-0.02
			<b>ΔHt.</b>	-7.811m	0.011m	0.001m	0.20
			<b>Dist.</b>	650.575m	0.009m	0.003m	0.42
B60	455	302	<b>Az.</b>	132° 07'50.0617"	0°00'02.5164"	-0° 00'00.1393"	-0.08
			<b>ΔHt.</b>	2.259m	0.013m	0.007m	0.41
			<b>Dist.</b>	790.636m	0.009m	0.002m	0.27
B87	10000	86106	<b>Az.</b>	222° 39'31.4773"	0°00'00.7401"	-0° 00'00.2267"	-0.41
			<b>ΔHt.</b>	2.972m	0.011m	0.001m	0.17
			<b>Dist.</b>	2382.818m	0.009m	0.002m	0.33
B49	SW1001	1289590	<b>Az.</b>	216° 34'06.9966"	0°00'00.4297"	-0° 00'00.0037"	-0.01
			<b>ΔHt.</b>	11.111m	0.011m	0.001m	0.19
			<b>Dist.</b>	4298.755m	0.009m	0.002m	0.39
B165	405	406	<b>Az.</b>	175° 05'45.8636"	0°00'08.9085"	-0° 00'01.8567"	-0.27
			<b>ΔHt.</b>	-0.901m	0.019m	-0.006m	-0.37
			<b>Dist.</b>	309.570m	0.018m	-0.003m	-0.19
B48	8601	1289590	<b>Az.</b>	324° 05'21.7168"	0°00'04.9999"	0° 00'00.2570"	0.07

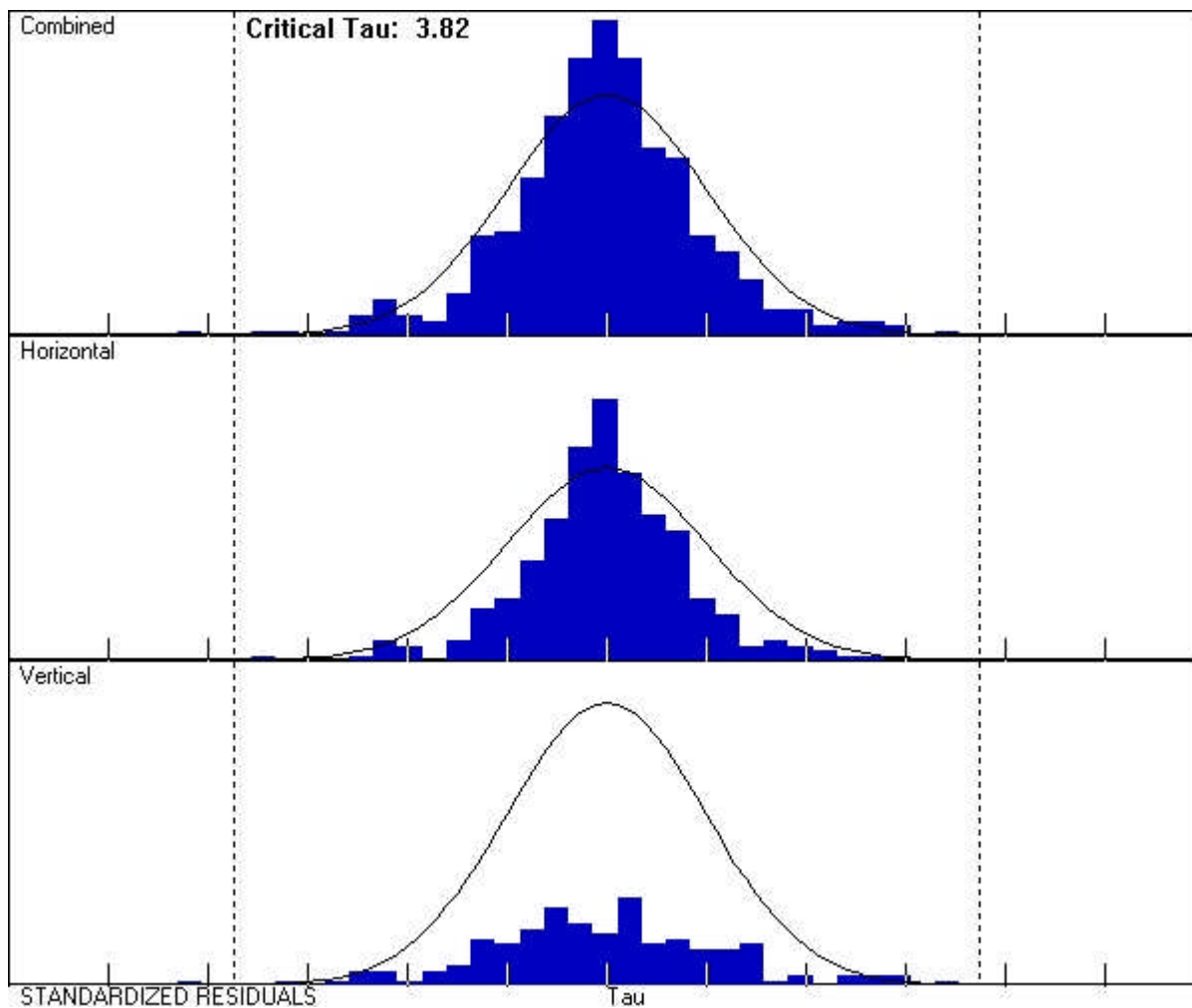
			<b>ΔHt.</b>	-4.731m	0.010m	0.002m	0.33
			<b>Dist.</b>	338.204m	0.008m	0.002m	0.25
B91	PP1001	86112	<b>Az.</b>	227° 02'10.9855"	0°00'01.0590"	0° 00'00.1918"	0.25
			<b>ΔHt.</b>	0.788m	0.016m	-0.001m	-0.09
			<b>Dist.</b>	1824.088m	0.010m	-0.002m	-0.33
B179	SODE.0	1289590	<b>Az.</b>	244° 09'38.4485"	0°00'00.1195"	-0° 00'00.0157"	-0.19
			<b>ΔHt.</b>	-3.306m	0.022m	-0.005m	-0.32
			<b>Dist.</b>	15804.670m	0.009m	-0.001m	-0.20
B66	10000	267	<b>Az.</b>	313° 34'49.6149"	0°00'01.1844"	-0° 00'00.0587"	-0.08
			<b>ΔHt.</b>	-1.762m	0.011m	0.002m	0.27
			<b>Dist.</b>	1735.441m	0.010m	0.001m	0.21
B1	PP1001	8601	<b>Az.</b>	212° 07'00.8722"	0°00'00.3280"	0° 00'00.0114"	0.04
			<b>ΔHt.</b>	17.839m	0.009m	0.001m	0.11
			<b>Dist.</b>	4695.445m	0.008m	-0.002m	-0.27
B127	2622	267	<b>Az.</b>	189° 00'00.4143"	0°00'02.0091"	-0° 00'00.3413"	-0.26
			<b>ΔHt.</b>	0.454m	0.010m	0.001m	0.23
			<b>Dist.</b>	978.245m	0.010m	0.000m	0.00
B159	8617	266	<b>Az.</b>	24° 49'33.5922"	0°00'01.4237"	0° 00'00.2256"	0.25
			<b>ΔHt.</b>	0.710m	0.011m	-0.001m	-0.10
			<b>Dist.</b>	1402.913m	0.010m	0.002m	0.26
B97	10000	266	<b>Az.</b>	327° 13'39.7880"	0°00'02.0812"	-0° 00'00.1662"	-0.13
			<b>ΔHt.</b>	0.023m	0.010m	0.002m	0.26
			<b>Dist.</b>	984.922m	0.010m	0.001m	0.15
B130	2622	266	<b>Az.</b>	156° 49'35.6046"	0°00'01.3516"	-0° 00'00.2252"	-0.26
			<b>ΔHt.</b>	2.238m	0.010m	0.000m	0.08
			<b>Dist.</b>	1451.287m	0.010m	0.001m	0.09
B17	SW1001	700	<b>Az.</b>	65° 25'15.6622"	0°00'21.4662"	-0° 00'00.2201"	-0.02
			<b>ΔHt.</b>	-4.100m	0.011m	-0.001m	-0.13
			<b>Dist.</b>	97.852m	0.010m	-0.001m	-0.24
B53	86101	1289590	<b>Az.</b>	22° 53'48.8920"	0°00'02.2987"	-0° 00'00.4044"	-0.24



			<b>ΔHt.</b>	3.080m	0.011m	0.001m	0.23
			<b>Dist.</b>	757.816m	0.009m	0.000m	0.00
B55	700	1289590	<b>Az.</b>	217° 11'13.3553"	0°00'00.4227"	0° 00'00.0161"	0.05
			<b>ΔHt.</b>	15.211m	0.011m	0.001m	0.21
			<b>Dist.</b>	4384.714m	0.009m	0.000m	0.00
B83	8617	303	<b>Az.</b>	248° 29'26.6331"	0°00'02.4425"	0° 00'00.1095"	0.07
			<b>ΔHt.</b>	1.377m	0.011m	0.001m	0.18
			<b>Dist.</b>	842.198m	0.010m	-0.001m	-0.13
B95	267	266	<b>Az.</b>	116° 56'11.2103"	0°00'02.6987"	0° 00'00.0431"	0.03
			<b>ΔHt.</b>	1.784m	0.011m	0.001m	0.18
			<b>Dist.</b>	812.278m	0.011m	0.001m	0.15
B19	2622	700	<b>Az.</b>	156° 39'53.7151"	0°00'00.6291"	-0° 00'00.0028"	-0.01
			<b>ΔHt.</b>	-1.316m	0.010m	0.001m	0.10
			<b>Dist.</b>	2952.565m	0.009m	-0.001m	-0.09

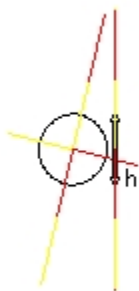
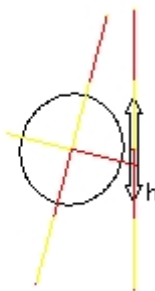
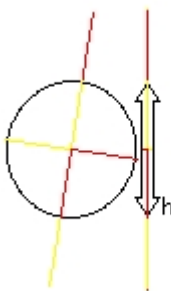
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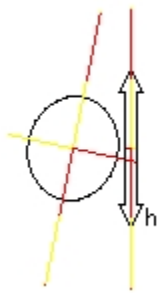
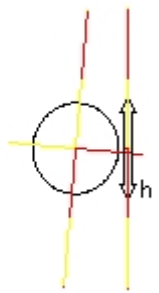
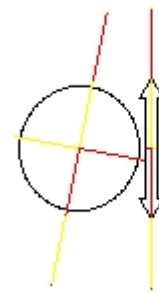
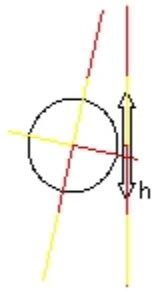
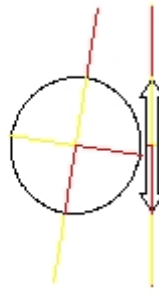
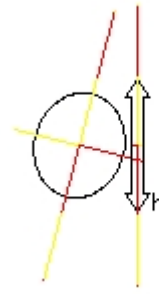
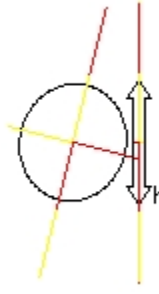
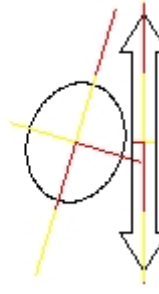
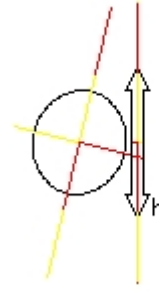
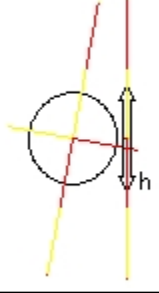
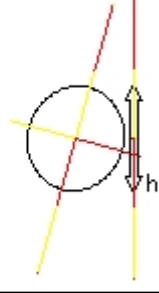
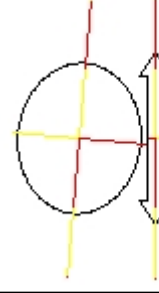
## Histograms of Standardized Residuals

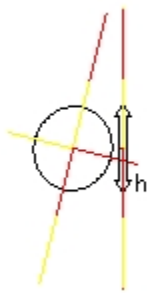
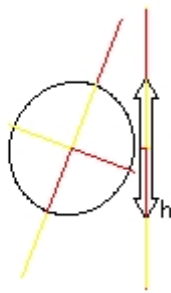
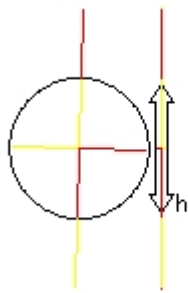
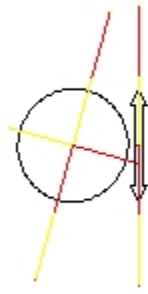
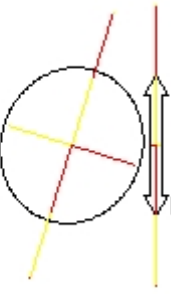
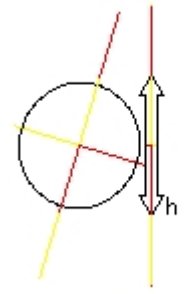

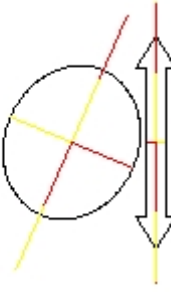
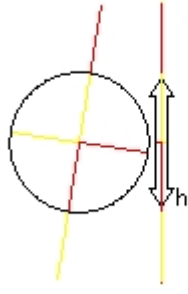
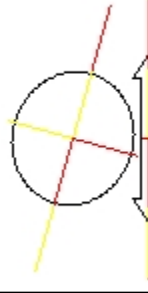
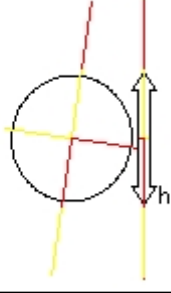
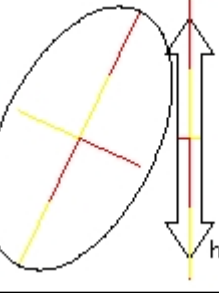


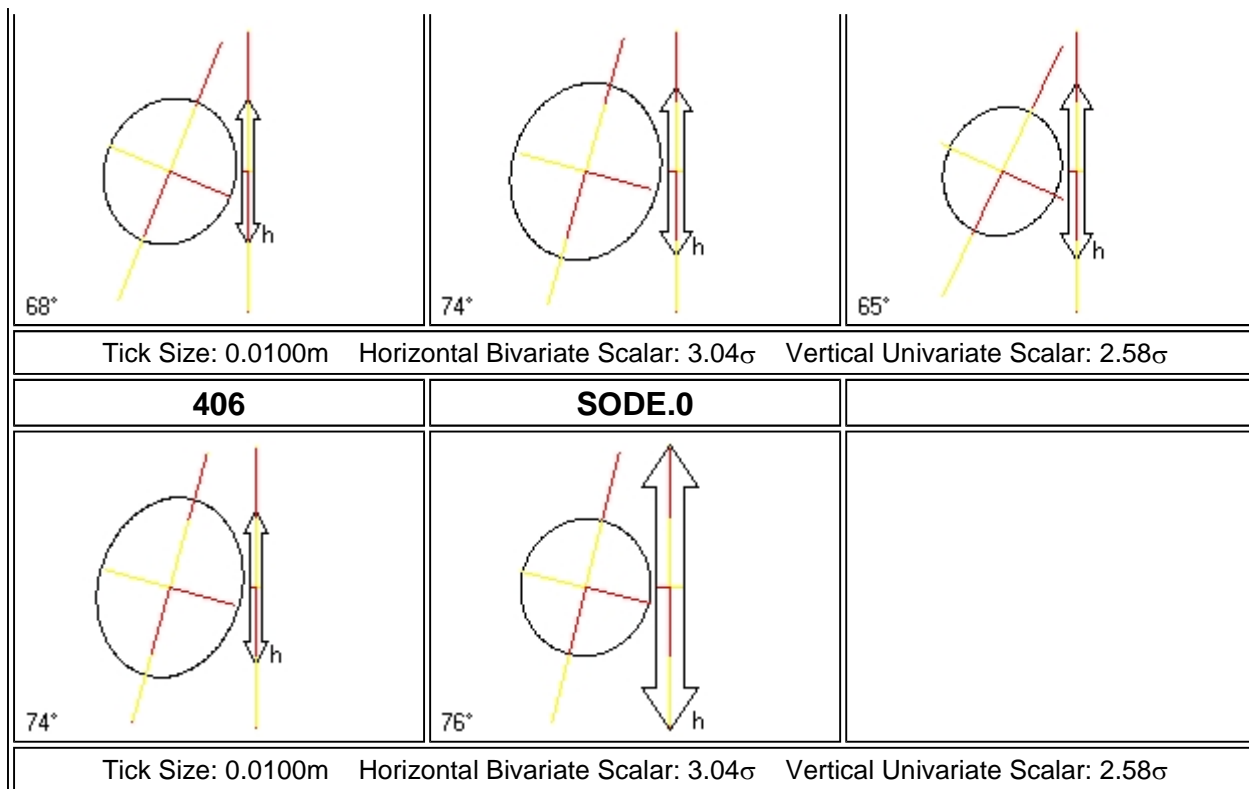
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### Point Error Ellipses

PP1001	8601	SW1001
		
Tick Size: 0.0100m    Horizontal Bivariate Scalar: $3.04\sigma$ Vertical Univariate Scalar: $2.58\sigma$		
1006	2622	86101

		
Tick Size: 0.0100m Horizontal Bivariate Scalar: $3.04\sigma$ Vertical Univariate Scalar: $2.58\sigma$		
<b>86106</b>	<b>700</b>	<b>3020</b>
		
Tick Size: 0.0100m Horizontal Bivariate Scalar: $3.04\sigma$ Vertical Univariate Scalar: $2.58\sigma$		
<b>8602</b>	<b>128851.1</b>	<b>138141</b>
		
Tick Size: 0.0100m Horizontal Bivariate Scalar: $3.04\sigma$ Vertical Univariate Scalar: $2.58\sigma$		
<b>1289590</b>	<b>455</b>	<b>302</b>
		
Tick Size: 0.0100m Horizontal Bivariate Scalar: $3.04\sigma$ Vertical Univariate Scalar: $2.58\sigma$		
<b>8607</b>	<b>8604</b>	<b>267</b>

		
Tick Size: 0.0100m Horizontal Bivariate Scalar: $3.04\sigma$ Vertical Univariate Scalar: $2.58\sigma$		
<b>1000</b>	<b>303</b>	<b>8603</b>
		
Tick Size: 0.0100m Horizontal Bivariate Scalar: $3.04\sigma$ Vertical Univariate Scalar: $2.58\sigma$		
<b>8617</b>	<b>86112</b>	<b>266</b>
		
Tick Size: 0.0100m Horizontal Bivariate Scalar: $3.04\sigma$ Vertical Univariate Scalar: $2.58\sigma$		
<b>8608</b>	<b>111</b>	<b>405</b>
		
Tick Size: 0.0100m Horizontal Bivariate Scalar: $3.04\sigma$ Vertical Univariate Scalar: $2.58\sigma$		
<b>8606</b>	<b>410</b>	<b>3018</b>



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## Covariant Terms

Adjustment performed in **WGS-84**

From Point	To Point		Components	A-posteriori Error (2.58σ)	Horiz. Precision (Ratio)	3D Precision (Ratio)
PP1001	8601	<b>Az.</b>	212° 07'00.8722"	0°00'00.3280"	1:593864	1:593864
		<b>ΔHt.</b>	17.839m	0.009m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	4695.445m	0.008m		
PP1001	SW1001	<b>Az.</b>	208° 01'07.9464"	0°00'06.2595"	1:31922	1:31922
		<b>ΔHt.</b>	1.996m	0.010m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	283.639m	0.009m		
PP1001	1006	<b>Az.</b>	268° 38'28.5607"	0°00'00.4817"	1:469947	1:469947
		<b>ΔHt.</b>	5.753m	0.014m		

		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	3381.357m	0.007m		
PP1001	2622	<b>Az.</b>	334° 08'06.8989"	0°00'00.4647"	1:437148	1:437148
		<b>ΔHt.</b>	-0.788m	0.008m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	2780.260m	0.006m		
PP1001	86101	<b>Az.</b>	214° 11'35.0942"	0°00'00.3183"	1:635106	1:635106
		<b>ΔHt.</b>	10.028m	0.011m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	5320.305m	0.008m		
PP1001	86106	<b>Az.</b>	230° 39'26.6131"	0°00'00.6194"	1:331051	1:331051
		<b>ΔHt.</b>	4.400m	0.009m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	2228.991m	0.007m		
PP1001	700	<b>Az.</b>	191° 55'02.2571"	0°00'08.2704"	1:23957	1:23957
		<b>ΔHt.</b>	-2.103m	0.010m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	214.316m	0.009m		
PP1001	3020	<b>Az.</b>	240° 59'25.3817"	0°00'00.4299"	1:484820	1:484820
		<b>ΔHt.</b>	7.858m	0.011m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	3635.216m	0.007m		
PP1001	8602	<b>Az.</b>	217° 17'42.3177"	0°00'00.3465"	1:560899	1:560899
		<b>ΔHt.</b>	14.161m	0.010m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	4618.288m	0.008m		
PP1001	128851.1	<b>Az.</b>	214° 23'07.8507"	0°00'00.1317"	1:1358311	1:1358311
		<b>ΔHt.</b>	26.085m	0.020m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	10961.093m	0.008m		
PP1001	138141	<b>Az.</b>	303° 07'06.9029"	0°00'00.1471"	1:1490319	1:1490319

		<b>ΔHt.</b>	15.400m	0.012m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	10090.028m	0.007m		
PP1001	1289590	<b>Az.</b>	216° 02'34.7612"	0°00'00.2943"	1:693751	1:693751
		<b>ΔHt.</b>	13.108m	0.008m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	4579.434m	0.007m		
PP1001	8607	<b>Az.</b>	237° 28'36.6527"	0°00'00.5206"	1:396101	1:396101
		<b>ΔHt.</b>	6.098m	0.009m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	2690.287m	0.007m		
PP1001	267	<b>Az.</b>	318° 20'24.7401"	0°00'00.9341"	1:220303	1:220303
		<b>ΔHt.</b>	-0.333m	0.010m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	2055.404m	0.009m		
PP1001	10000	<b>Az.</b>	342° 10'06.8892"	0°00'04.5182"	1:45327	1:45327
		<b>ΔHt.</b>	1.428m	0.009m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	356.316m	0.008m		
PP1001	8617	<b>Az.</b>	265° 05'42.3562"	0°00'01.2136"	1:174609	1:174609
		<b>ΔHt.</b>	0.741m	0.009m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1236.217m	0.007m		
PP1001	86112	<b>Az.</b>	227° 02'10.9855"	0°00'01.0590"	1:176736	1:176736
		<b>ΔHt.</b>	0.788m	0.016m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1824.088m	0.010m		
PP1001	266	<b>Az.</b>	331° 10'57.5706"	0°00'01.4370"	1:143206	1:143206
		<b>ΔHt.</b>	1.451m	0.010m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1332.365m	0.009m		

PP1001	SODE.0	<b>Az.</b>	74° 19'07.4672"	0°00'00.1543"	1:1369495	1:1369495
		<b>ΔHt.</b>	16.414m	0.021m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	11952.978m	0.009m		
8601	86101	<b>Az.</b>	229° 18'40.2068"	0°00'02.8829"	1:70290	1:70290
		<b>ΔHt.</b>	-7.811m	0.011m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	650.575m	0.009m		
8601	8602	<b>Az.</b>	315° 02'54.0164"	0°00'03.9767"	1:52872	1:52872
		<b>ΔHt.</b>	-3.678m	0.010m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	427.729m	0.008m		
8601	128851.1	<b>Az.</b>	216° 02'39.5394"	0°00'00.2762"	1:637327	1:637327
		<b>ΔHt.</b>	8.246m	0.020m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	6272.082m	0.010m		
8601	138141	<b>Az.</b>	327° 51'14.1646"	0°00'00.1602"	1:1301481	1:1301481
		<b>ΔHt.</b>	-2.439m	0.013m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	11203.228m	0.009m		
8601	1289590	<b>Az.</b>	324° 05'21.7168"	0°00'04.9999"	1:41752	1:41752
		<b>ΔHt.</b>	-4.731m	0.010m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	338.204m	0.008m		
8601	8607	<b>Az.</b>	5°06'28.7780"	0°00'00.6359"	1:307121	1:307121
		<b>ΔHt.</b>	-11.741m	0.010m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	2540.717m	0.008m		
8601	8604	<b>Az.</b>	342° 18'04.2515"	0°00'01.9467"	1:103828	1:103828
		<b>ΔHt.</b>	-0.773m	0.011m		
		<b>ΔElev.</b>	?	?		



		<b>Dist.</b>	996.422m	0.010m		
8601	8603	<b>Az.</b>	327° 46'00.1432"	0°00'02.6704"	1:77149	1:77149
		<b>ΔHt.</b>	-2.125m	0.011m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	716.413m	0.009m		
SW1001	2622	<b>Az.</b>	338° 34'41.8507"	0°00'00.6259"	1:322222	1:322222
		<b>ΔHt.</b>	-2.784m	0.011m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	2956.338m	0.009m		
SW1001	700	<b>Az.</b>	65° 25'15.6622"	0°00'21.4662"	1:9777	1:9777
		<b>ΔHt.</b>	-4.100m	0.011m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	97.852m	0.010m		
SW1001	128851.1	<b>Az.</b>	214° 33'07.7799"	0°00'00.1793"	1:1046613	1:1046613
		<b>ΔHt.</b>	24.089m	0.021m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	10679.250m	0.010m		
SW1001	138141	<b>Az.</b>	304° 42'58.7619"	0°00'00.1927"	1:1114255	1:1114255
		<b>ΔHt.</b>	13.404m	0.013m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	10119.185m	0.009m		
SW1001	1289590	<b>Az.</b>	216° 34'06.9966"	0°00'00.4297"	1:470059	1:470059
		<b>ΔHt.</b>	11.111m	0.011m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	4298.755m	0.009m		
1006	2622	<b>Az.</b>	39° 57'36.0592"	0°00'00.4958"	1:397048	1:397048
		<b>ΔHt.</b>	-6.541m	0.015m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	3371.130m	0.008m		
1006	86106	<b>Az.</b>	128° 46'02.3409"	0°00'00.8220"	1:265306	1:265306
		<b>ΔHt.</b>	-1.353m	0.014m		

		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	2126.234m	0.008m		
1006	3020	<b>Az.</b>	173° 07'33.5064"	0°00'00.9662"	1:188333	1:188333
		<b>ΔHt.</b>	2.105m	0.015m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1694.736m	0.009m		
1006	128851.1	<b>Az.</b>	197° 20'55.0620"	0°00'00.1825"	1:931061	1:931061
		<b>ΔHt.</b>	20.332m	0.023m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	9395.565m	0.010m		
1006	138141	<b>Az.</b>	317° 45'10.3521"	0°00'00.2421"	1:890939	1:890939
		<b>ΔHt.</b>	9.647m	0.017m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	7549.297m	0.008m		
1006	1289590	<b>Az.</b>	169° 13'31.1226"	0°00'00.4442"	1:435869	1:435869
		<b>ΔHt.</b>	7.354m	0.015m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	3687.002m	0.008m		
1006	455	<b>Az.</b>	104° 19'44.6454"	0°00'02.6982"	1:85473	1:85473
		<b>ΔHt.</b>	-4.661m	0.013m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	688.544m	0.008m		
1006	302	<b>Az.</b>	119° 12'10.0152"	0°00'01.5406"	1:149733	1:149733
		<b>ΔHt.</b>	-2.402m	0.016m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1436.102m	0.010m		
1006	8607	<b>Az.</b>	140° 48'11.4769"	0°00'00.9521"	1:224319	1:224319
		<b>ΔHt.</b>	0.345m	0.013m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1761.584m	0.008m		
1006	8608	<b>Az.</b>	138°	0°00'01.3427"	1:161362	1:161362

			11'08.1090"			
		<b>ΔHt.</b>	-0.808m	0.015m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1505.063m	0.009m		
1006	111	<b>Az.</b>	139° 09'46.4888"	0°00'01.9503"	1:107395	1:107395
		<b>ΔHt.</b>	0.333m	0.013m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	976.231m	0.009m		
1006	3018	<b>Az.</b>	172° 12'27.8375"	0°00'00.9505"	1:201450	1:201450
		<b>ΔHt.</b>	0.845m	0.016m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1974.555m	0.010m		
2622	700	<b>Az.</b>	156° 39'53.7151"	0°00'00.6291"	1:321377	1:321377
		<b>ΔHt.</b>	-1.316m	0.010m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	2952.565m	0.009m		
2622	3020	<b>Az.</b>	204° 43'59.4678"	0°00'00.3469"	1:538659	1:538659
		<b>ΔHt.</b>	8.646m	0.013m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	4696.124m	0.009m		
2622	128851.1	<b>Az.</b>	203° 17'56.8113"	0°00'00.1244"	1:1421980	1:1421980
		<b>ΔHt.</b>	26.873m	0.020m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	12574.548m	0.009m		
2622	138141	<b>Az.</b>	292° 34'10.0948"	0°00'00.2079"	1:1059812	1:1059812
		<b>ΔHt.</b>	16.188m	0.013m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	7839.314m	0.007m		
2622	1289590	<b>Az.</b>	193° 24'40.5875"	0°00'00.2333"	1:856849	1:856849
		<b>ΔHt.</b>	13.895m	0.010m		
		<b>ΔElev.</b>	?	?		

		<b>Dist.</b>	6379.020m	0.007m		
2622	267	<b>Az.</b>	189° 00'00.4143"	0°00'02.0091"	1:101929	1:101929
		<b>ΔHt.</b>	0.454m	0.010m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	978.245m	0.010m		
2622	10000	<b>Az.</b>	152° 56'27.3608"	0°00'00.7080"	1:289297	1:289297
		<b>ΔHt.</b>	2.216m	0.010m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	2427.951m	0.008m		
2622	8617	<b>Az.</b>	180° 23'38.6722"	0°00'00.6081"	1:327914	1:327914
		<b>ΔHt.</b>	1.528m	0.010m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	2607.518m	0.008m		
2622	266	<b>Az.</b>	156° 49'35.6046"	0°00'01.3516"	1:151706	1:151706
		<b>ΔHt.</b>	2.238m	0.010m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1451.287m	0.010m		
2622	SODE.0	<b>Az.</b>	86° 42'04.0612"	0°00'00.1543"	1:1396274	1:1396274
		<b>ΔHt.</b>	17.201m	0.022m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	12741.844m	0.009m		
86101	8602	<b>Az.</b>	14° 43'25.0646"	0°00'02.5011"	1:77475	1:77475
		<b>ΔHt.</b>	4.133m	0.012m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	751.553m	0.010m		
86101	128851.1	<b>Az.</b>	214° 31'11.6432"	0°00'00.3215"	1:579338	1:579338
		<b>ΔHt.</b>	16.057m	0.021m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	5640.846m	0.010m		
86101	138141	<b>Az.</b>	331° 06'17.1779"	0°00'00.1609"	1:1272504	1:1272504
		<b>ΔHt.</b>	5.372m	0.014m		

		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	11318.169m	0.009m		
86101	1289590	<b>Az.</b>	22° 53'48.8920"	0°00'02.2987"	1:87455	1:87455
		<b>ΔHt.</b>	3.080m	0.011m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	757.816m	0.009m		
86101	SODE.0	<b>Az.</b>	62° 11'30.0751"	0°00'00.1261"	1:1644970	1:1644970
		<b>ΔHt.</b>	6.386m	0.023m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	16383.854m	0.010m		
86106	3020	<b>Az.</b>	256° 27'21.6497"	0°00'01.1697"	1:187381	1:187381
		<b>ΔHt.</b>	3.458m	0.012m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1496.761m	0.008m		
86106	128851.1	<b>Az.</b>	210° 18'30.7904"	0°00'00.1879"	1:955055	1:955055
		<b>ΔHt.</b>	21.685m	0.021m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	8843.471m	0.009m		
86106	138141	<b>Az.</b>	315° 48'28.6462"	0°00'00.1766"	1:1206670	1:1206670
		<b>ΔHt.</b>	11.000m	0.013m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	9655.149m	0.008m		
86106	1289590	<b>Az.</b>	202° 56'45.5427"	0°00'00.6314"	1:316645	1:316645
		<b>ΔHt.</b>	8.707m	0.010m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	2486.986m	0.008m		
86106	8607	<b>Az.</b>	266° 28'15.1425"	0°00'02.8901"	1:74598	1:74598
		<b>ΔHt.</b>	1.698m	0.010m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	545.567m	0.007m		
86106	10000	<b>Az.</b>	42°	0°00'00.7397"	1:275410	1:275410

			37'59.7996"			
		<b>ΔHt.</b>	-2.972m	0.011m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	2382.818m	0.009m		
86106	8603	<b>Az.</b>	210° 29'49.3747"	0°00'00.8309"	1:237138	1:237138
		<b>ΔHt.</b>	11.314m	0.013m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	2272.462m	0.010m		
86106	8617	<b>Az.</b>	20° 36'02.9997"	0°00'01.1564"	1:171878	1:171878
		<b>ΔHt.</b>	-3.660m	0.010m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1396.945m	0.008m		
86106	86112	<b>Az.</b>	66° 22'40.1187"	0°00'04.9039"	1:41536	1:41536
		<b>ΔHt.</b>	-3.613m	0.017m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	424.476m	0.010m		
700	128851.1	<b>Az.</b>	214° 49'14.9520"	0°00'00.1784"	1:1051598	1:1051598
		<b>ΔHt.</b>	28.189m	0.020m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	10763.357m	0.010m		
700	138141	<b>Az.</b>	304° 14'37.3329"	0°00'00.1923"	1:1114929	1:1114929
		<b>ΔHt.</b>	17.504m	0.013m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	10169.497m	0.009m		
700	1289590	<b>Az.</b>	217° 11'13.3553"	0°00'00.4227"	1:478507	1:478507
		<b>ΔHt.</b>	15.211m	0.011m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	4384.714m	0.009m		
3020	128851.1	<b>Az.</b>	202° 24'49.0559"	0°00'00.2159"	1:788251	1:788251
		<b>ΔHt.</b>	18.227m	0.021m		
		<b>ΔElev.</b>	?	?		

		<b>Dist.</b>	7880.772m	0.010m		
3020	138141	<b>Az.</b>	324° 01'29.3180"	0°00'00.2017"	1:1041554	1:1041554
		<b>ΔHt.</b>	7.542m	0.015m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	8984.907m	0.009m		
3020	1289590	<b>Az.</b>	165° 55'23.2992"	0°00'00.8214"	1:236328	1:236328
		<b>ΔHt.</b>	5.249m	0.012m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1999.518m	0.008m		
3020	455	<b>Az.</b>	17° 04'17.9860"	0°00'01.0661"	1:171314	1:171314
		<b>ΔHt.</b>	-6.766m	0.012m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1581.817m	0.009m		
3020	8607	<b>Az.</b>	70° 47'09.6520"	0°00'01.6954"	1:126772	1:126772
		<b>ΔHt.</b>	-1.760m	0.011m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	964.186m	0.008m		
3020	8608	<b>Az.</b>	54° 59'33.5896"	0°00'01.9865"	1:100646	1:100646
		<b>ΔHt.</b>	-2.913m	0.015m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	977.500m	0.010m		
3020	111	<b>Az.</b>	24° 46'15.8165"	0°00'01.7696"	1:107985	1:107985
		<b>ΔHt.</b>	-1.772m	0.013m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1039.594m	0.010m		
3020	8606	<b>Az.</b>	114° 52'02.1529"	0°00'03.0167"	1:82138	1:82138
		<b>ΔHt.</b>	-2.270m	0.014m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	778.246m	0.009m		
3020	3018	<b>Az.</b>	166° 40'17.2056"	0°00'06.8163"	1:28765	1:28765
		<b>ΔHt.</b>	-1.260m	0.016m		

		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	281.351m	0.010m		
8602	128851.1	<b>Az.</b>	212° 13'36.3655"	0°00'00.2789"	1:616655	1:616655
		<b>ΔHt.</b>	11.924m	0.020m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	6353.085m	0.010m		
8602	138141	<b>Az.</b>	328° 21'09.9149"	0°00'00.1746"	1:1199670	1:1199670
		<b>ΔHt.</b>	1.239m	0.014m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	10786.554m	0.009m		
8602	1289590	<b>Az.</b>	105° 29'20.8302"	0°00'16.7638"	1:13285	1:13285
		<b>ΔHt.</b>	-1.054m	0.011m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	107.746m	0.008m		
8602	8607	<b>Az.</b>	13° 20'15.8333"	0°00'00.7268"	1:265612	1:265612
		<b>ΔHt.</b>	-8.063m	0.011m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	2289.726m	0.009m		
8602	8604	<b>Az.</b>	359° 55'49.7524"	0°00'03.0162"	1:64705	1:64705
		<b>ΔHt.</b>	2.905m	0.013m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	646.554m	0.010m		
8602	8603	<b>Az.</b>	345° 14'01.3112"	0°00'06.1778"	1:32386	1:32386
		<b>ΔHt.</b>	1.553m	0.013m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	313.648m	0.010m		
128851.1	138141	<b>Az.</b>	351° 04'37.2145"	0°00'00.1086"	1:1683927	1:1683927
		<b>ΔHt.</b>	-10.685m	0.022m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	14733.073m	0.009m		
128851.1	1289590	<b>Az.</b>	33°	0°00'00.2394"	1:752785	1:752785



			05'57.9173"			
		<b>ΔHt.</b>	-12.978m	0.020m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	6384.949m	0.008m		
128851.1	SODE.0	<b>Az.</b>	55° 09'20.7443"	0°00'00.0918"	1:2181635	1:2181635
		<b>ΔHt.</b>	-9.671m	0.028m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	21539.409m	0.010m		
138141	1289590	<b>Az.</b>	147° 52'36.5508"	0°00'00.1415"	1:1460616	1:1460616
		<b>ΔHt.</b>	-2.293m	0.012m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	10865.776m	0.007m		
138141	SODE.0	<b>Az.</b>	96° 23'22.4297"	0°00'00.0984"	1:2228202	1:2228202
		<b>ΔHt.</b>	1.014m	0.023m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	20088.963m	0.009m		
1289590	SODE.0	<b>Az.</b>	63° 56'11.2943"	0°00'00.1193"	1:1742985	1:1742985
		<b>ΔHt.</b>	3.306m	0.022m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	15804.670m	0.009m		
455	302	<b>Az.</b>	132° 07'50.0617"	0°00'02.5164"	1:86435	1:86435
		<b>ΔHt.</b>	2.259m	0.013m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	790.636m	0.009m		
455	8607	<b>Az.</b>	159° 31'59.3561"	0°00'01.3208"	1:151319	1:151319
		<b>ΔHt.</b>	5.005m	0.010m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1275.374m	0.008m		
455	303	<b>Az.</b>	103° 06'04.2457"	0°00'02.9228"	1:77123	1:77123
		<b>ΔHt.</b>	1.025m	0.011m		
		<b>ΔElev.</b>	?	?		

		<b>Dist.</b>	716.883m	0.009m		
455	8617	<b>Az.</b>	84° 20'55.2750"	0°00'01.1257"	1:194578	1:194578
		<b>ΔHt.</b>	-0.352m	0.009m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1488.880m	0.008m		
455	8608	<b>Az.</b>	160° 32'24.0128"	0°00'01.8973"	1:105417	1:105417
		<b>ΔHt.</b>	3.853m	0.013m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1009.031m	0.010m		
455	111	<b>Az.</b>	182° 54'27.9613"	0°00'03.2089"	1:60675	1:60675
		<b>ΔHt.</b>	4.994m	0.011m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	568.908m	0.009m		
455	405	<b>Az.</b>	56° 05'27.6547"	0°00'06.7555"	1:23525	1:23525
		<b>ΔHt.</b>	3.877m	0.018m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	378.925m	0.016m		
455	410	<b>Az.</b>	80° 10'34.9810"	0°00'05.7049"	1:40052	1:40052
		<b>ΔHt.</b>	2.515m	0.013m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	402.469m	0.010m		
455	3018	<b>Az.</b>	192° 37'01.0314"	0°00'01.0268"	1:173823	1:173823
		<b>ΔHt.</b>	5.506m	0.015m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1830.032m	0.011m		
455	406	<b>Az.</b>	105° 53'11.8064"	0°00'06.7244"	1:37765	1:37765
		<b>ΔHt.</b>	2.976m	0.011m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	354.510m	0.009m		
302	303	<b>Az.</b>	16° 55'26.2061"	0°00'05.4353"	1:31485	1:31485
		<b>ΔHt.</b>	-1.234m	0.014m		

		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	384.514m	0.012m		
302	8617	<b>Az.</b>	52° 54'49.7642"	0°00'01.8134"	1:114889	1:114889
		<b>ΔHt.</b>	-2.611m	0.013m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1122.439m	0.010m		
302	8608	<b>Az.</b>	210° 43'50.7186"	0°00'04.3126"	1:43595	1:43595
		<b>ΔHt.</b>	1.594m	0.016m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	489.743m	0.011m		
302	111	<b>Az.</b>	266° 29'36.0211"	0°00'03.7043"	1:62297	1:62297
		<b>ΔHt.</b>	2.735m	0.015m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	616.370m	0.010m		
302	410	<b>Az.</b>	342° 25'50.1532"	0°00'03.7361"	1:48167	1:48167
		<b>ΔHt.</b>	0.256m	0.016m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	628.388m	0.013m		
302	406	<b>Az.</b>	330° 29'16.9732"	0°00'04.9358"	1:39484	1:39484
		<b>ΔHt.</b>	0.718m	0.014m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	497.987m	0.013m		
8607	8604	<b>Az.</b>	198° 30'14.6925"	0°00'01.0557"	1:184034	1:184034
		<b>ΔHt.</b>	10.968m	0.011m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1667.545m	0.009m		
8607	10000	<b>Az.</b>	50° 22'30.7695"	0°00'00.6262"	1:325902	1:325902
		<b>ΔHt.</b>	-4.670m	0.010m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	2801.935m	0.009m		
8607	8603	<b>Az.</b>	197°	0°00'00.8596"	1:232487	1:232487

			32'37.8547"			
		<b>ΔHt.</b>	9.616m	0.011m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	2018.474m	0.009m		
8607	8617	<b>Az.</b>	37° 40'36.9220"	0°00'00.9153"	1:216378	1:216378
		<b>ΔHt.</b>	-5.357m	0.009m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1694.765m	0.008m		
8607	86112	<b>Az.</b>	77° 40'57.6309"	0°00'02.2164"	1:97377	1:97377
		<b>ΔHt.</b>	-5.310m	0.017m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	955.403m	0.010m		
8607	8608	<b>Az.</b>	335° 44'01.7390"	0°00'07.0184"	1:28966	1:28966
		<b>ΔHt.</b>	-1.153m	0.014m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	267.088m	0.009m		
8607	111	<b>Az.</b>	322° 51'27.0408"	0°00'02.3510"	1:88630	1:88630
		<b>ΔHt.</b>	-0.012m	0.011m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	786.250m	0.009m		
8607	8606	<b>Az.</b>	197° 36'26.8832"	0°00'02.7219"	1:69028	1:69028
		<b>ΔHt.</b>	-0.510m	0.011m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	676.205m	0.010m		
8607	3018	<b>Az.</b>	235° 03'39.3524"	0°00'01.6921"	1:115053	1:115053
		<b>ΔHt.</b>	0.500m	0.014m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1031.720m	0.009m		
8604	8603	<b>Az.</b>	192° 59'07.8299"	0°00'05.5397"	1:36090	1:36090
		<b>ΔHt.</b>	-1.352m	0.012m		
		<b>ΔElev.</b>	?	?		

		<b>Dist.</b>	352.273m	0.010m		
8604	86112	<b>Az.</b>	39° 19'14.8981"	0°00'00.9868"	1:180460	1:180460
		<b>ΔHt.</b>	-16.278m	0.019m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	2307.829m	0.013m		
8604	8606	<b>Az.</b>	19° 06'26.0325"	0°00'02.0816"	1:92799	1:92799
		<b>ΔHt.</b>	-11.478m	0.012m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	991.479m	0.011m		
8604	3018	<b>Az.</b>	342° 16'07.8831"	0°00'02.0144"	1:102991	1:102991
		<b>ΔHt.</b>	-10.468m	0.016m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1039.813m	0.010m		
267	10000	<b>Az.</b>	133° 33'38.1682"	0°00'01.1848"	1:174177	1:174177
		<b>ΔHt.</b>	1.762m	0.011m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1735.441m	0.010m		
267	8617	<b>Az.</b>	175° 17'30.9387"	0°00'01.2154"	1:168174	1:168174
		<b>ΔHt.</b>	1.074m	0.011m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1646.807m	0.010m		
267	266	<b>Az.</b>	116° 56'11.2103"	0°00'02.6987"	1:76365	1:76365
		<b>ΔHt.</b>	1.784m	0.011m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	812.278m	0.011m		
10000	8617	<b>Az.</b>	248° 22'44.2053"	0°00'01.4494"	1:143478	1:143478
		<b>ΔHt.</b>	-0.687m	0.010m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1207.526m	0.008m		
10000	86112	<b>Az.</b>	217° 45'36.6357"	0°00'01.0461"	1:177439	1:177439
		<b>ΔHt.</b>	-0.640m	0.017m		

		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	2001.584m	0.011m		
10000	266	<b>Az.</b>	327° 13'39.7880"	0°00'02.0812"	1:99047	1:99047
		<b>ΔHt.</b>	0.023m	0.010m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	984.922m	0.010m		
303	8617	<b>Az.</b>	68° 28'42.1316"	0°00'02.4423"	1:86205	1:86205
		<b>ΔHt.</b>	-1.377m	0.011m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	842.198m	0.010m		
303	405	<b>Az.</b>	314° 15'56.7375"	0°00'06.9281"	1:45832	1:45832
		<b>ΔHt.</b>	2.852m	0.018m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	535.774m	0.012m		
303	410	<b>Az.</b>	307° 28'28.6374"	0°00'06.4985"	1:36173	1:36173
		<b>ΔHt.</b>	1.490m	0.013m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	380.044m	0.011m		
303	406	<b>Az.</b>	280° 23'36.4873"	0°00'06.9602"	1:35791	1:35791
		<b>ΔHt.</b>	1.951m	0.012m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	363.201m	0.010m		
8603	8606	<b>Az.</b>	17° 30'07.9537"	0°00'01.5252"	1:127786	1:127786
		<b>ΔHt.</b>	-10.126m	0.012m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1342.269m	0.011m		
8603	3018	<b>Az.</b>	349° 54'02.4545"	0°00'01.5013"	1:135403	1:135403
		<b>ΔHt.</b>	-9.116m	0.016m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1354.667m	0.010m		
8617	86112	<b>Az.</b>	185°	0°00'01.7757"	1:103532	1:103532

			09'44.4500"			
		<b>ΔHt.</b>	0.047m	0.017m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1142.146m	0.011m		
8617	266	<b>Az.</b>	24° 49'33.5922"	0°00'01.4237"	1:143889	1:143889
		<b>ΔHt.</b>	0.710m	0.011m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1402.913m	0.010m		
8617	405	<b>Az.</b>	273° 11'59.9057"	0°00'03.0378"	1:100470	1:100470
		<b>ΔHt.</b>	4.229m	0.018m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1168.961m	0.012m		
8617	410	<b>Az.</b>	265° 54'52.0987"	0°00'02.1616"	1:109346	1:109346
		<b>ΔHt.</b>	2.867m	0.013m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1087.872m	0.010m		
8617	406	<b>Az.</b>	257° 57'56.6060"	0°00'02.0041"	1:116016	1:116016
		<b>ΔHt.</b>	3.328m	0.012m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	1166.408m	0.010m		
8608	111	<b>Az.</b>	316° 23'54.2993"	0°00'03.8974"	1:54433	1:54433
		<b>ΔHt.</b>	1.141m	0.013m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	529.235m	0.010m		
8608	8606	<b>Az.</b>	186° 05'26.1166"	0°00'02.4016"	1:77318	1:77318
		<b>ΔHt.</b>	0.643m	0.015m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	893.060m	0.012m		
111	3018	<b>Az.</b>	196° 56'21.4556"	0°00'01.5548"	1:121960	1:121960
		<b>ΔHt.</b>	0.512m	0.014m		
		<b>ΔElev.</b>	?	?		

		<b>Dist.</b>	1272.893m	0.010m		
405	410	<b>Az.</b>	150° 05'57.9741"	0°00'21.3332"	1:11530	1:11530
		<b>ΔHt.</b>	-1.362m	0.020m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	164.648m	0.014m		
405	406	<b>Az.</b>	175° 05'45.8636"	0°00'08.9085"	1:17626	1:17626
		<b>ΔHt.</b>	-0.901m	0.019m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	309.570m	0.018m		
8606	3018	<b>Az.</b>	274° 46'47.7987"	0°00'03.4685"	1:64122	1:64122
		<b>ΔHt.</b>	1.010m	0.016m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	643.457m	0.010m		
410	406	<b>Az.</b>	198° 33'13.8707"	0°00'12.2882"	1:12489	1:12489
		<b>ΔHt.</b>	0.461m	0.014m		
		<b>ΔElev.</b>	?	?		
		<b>Dist.</b>	174.788m	0.014m		

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# GPS Calibration Report

*Project : Forsmark01*

<b>User name</b>	shol	<b>Date &amp; Time</b>	09:15:10 10.3.2008
<b>Coordinate System</b>	Sweden (RT-90)	<b>Zone</b>	2.5 GON V 0;-15
<b>Project Datum</b>	Sweden RT-90 (SWEREF 99)		
<b>Vertical Datum</b>		<b>Geoid Model</b>	SWEN01L (Sweden)
<b>Coordinate Units</b>	Meters		
<b>Distance Units</b>	Meters		
<b>Height Units</b>	Meters		

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-  [Datum Transformation Parameters](#)
-  [Updated Default Projection Definition](#)
-  [Horizontal Adjustment Parameters](#)
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-  [Geoid Model Definition](#)
-  [Residual Differences Between GPS And Known Coordinates](#)

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## Datum Transformation Parameters

Datum Transformation computation not requested

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## Updated Default Projection (Transverse Mercator) Definition

Updated default projection not requested

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## Horizontal Adjustment Parameters

<b>Northing coordinate of rotation center</b>	6700519.604m
<b>Easting coordinate of rotation center</b>	1631231.725m
<b>Rotation about the center point</b>	0°00'00"

Translation north -0.079m  
 Translation east -0.098m  
 Scale factor 0.99999899

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## Vertical Adjustment Parameters

Northing coordinate of origin point 6705011.416m  
 Easting coordinate of origin point 1643752.821m  
 Vertical separation at origin 0.050m  
 Slope north 4.813ppm  
 Slope east 2.654ppm

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## Geoid Model Definition

SWEN01L (Sweden)

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## Residual Differences Between GPS And Known Coordinates

### Summary

	Maximum error	Root Mean Square error	Point
Horizontal	0.011m	0.009	<a href="#">138141</a>
Vertical	0.023m	0.014	<a href="#">1289590</a>
Three-dimensional	0.026m	0.017	<a href="#">1289590</a>

### Point Residuals

GPS point		Calculated point		Control point	
Point	<a href="#">SODE.0</a>	Northing	6705011.416m	Point	
Latitude	60° 26'14.25155"N	Easting	1643752.821m	Northing	6705011.415m
Longitude	18° 24'58.72872"E	Elevation	18.394m	Easting	1643752.816m
Height	40.618m	Horizontal error	0.005m	Elevation	18.385m
		Vertical error	0.009m	Type	Horz and Vert
		3D error	0.010m	Point quality	
Point	<a href="#">138141</a>	Northing	6706564.920m	Point	

<b>Latitude</b>	60° 27'28.26171"N	<b>Easting</b>	1623719.501m	<b>Northing</b>	6706564.931m
<b>Longitude</b>	18° 03'13.44674"E	<b>Elevation</b>	16.546m	<b>Easting</b>	1623719.503m
<b>Height</b>	39.605m	<b>Horizontal error</b>	<b>0.011m</b>	<b>Elevation</b>	16.539m
		<b>Vertical error</b>	<b>0.007m</b>	<b>Type</b>	Horz and Vert
		<b>3D error</b>	<b>0.013m</b>	<b>Point quality</b>	
<b>Point</b>	<a href="#">128851.1</a>	<b>Northing</b>	6692095.461m	<b>Point</b>	
<b>Latitude</b>	60° 19'38.01331"N	<b>Easting</b>	1626509.378m	<b>Northing</b>	6692095.455m
<b>Longitude</b>	18° 05'42.94953"E	<b>Elevation</b>	27.276m	<b>Easting</b>	1626509.381m
<b>Height</b>	50.290m	<b>Horizontal error</b>	0.007m	<b>Elevation</b>	27.259m
		<b>Vertical error</b>	0.017m	<b>Type</b>	Horz and Vert
		<b>3D error</b>	0.018m	<b>Point quality</b>	
<b>Point</b>	<a href="#">1289590</a>	<b>Northing</b>	6697563.241m	<b>Point</b>	
<b>Latitude</b>	60° 22'30.78358"N	<b>Easting</b>	1629809.036m	<b>Northing</b>	6697563.240m
<b>Longitude</b>	18° 09'30.48450"E	<b>Elevation</b>	14.479m	<b>Easting</b>	1629809.046m
<b>Height</b>	37.312m	<b>Horizontal error</b>	<b>0.010m</b>	<b>Elevation</b>	14.502m
		<b>Vertical error</b>	<b>0.023m</b>	<b>Type</b>	Horz and Vert
		<b>3D error</b>	<b>0.026m</b>	<b>Point quality</b>	
<b>Point</b>	<a href="#">PP1001</a>	<b>Northing</b>	6701362.583m	<b>Point</b>	
<b>Latitude</b>	60° 24'30.45576"N	<b>Easting</b>	1632367.402m	<b>Northing</b>	6701362.581m
<b>Longitude</b>	18° 12'26.31831"E	<b>Elevation</b>	1.501m	<b>Easting</b>	1632367.392m
<b>Height</b>	24.205m	<b>Horizontal error</b>	0.010m	<b>Elevation</b>	1.510m
		<b>Vertical error</b>	0.009m	<b>Type</b>	Horz and Vert
		<b>3D error</b>	0.014m	<b>Point quality</b>	

[Back to top](#)

5524408.3188782316000000	= Xo
-4130895.1280761431000000	= Yo
0.0000000000000000	Not used
-0.6358315131764968	= a
-0.7715519203014308	= b
0.0000000000000000	Not used
0.7715519203014308	= c
-0.6358315131764968	= d
0.0000000000000000	Not used
0.0000000000000000	Not used
0.0000000000000000	Not used
1.0000000000000000	Not used
0.0000000000000000	Not used
0.0000000000000000	Not used
2.2600572047673371	Not used
0.9997870167536379	Not used
2	= Transformation type = Helmert
0	Not used
0	Not used

$$X_p = X_o + a \cdot x_p + b \cdot y_p$$

$$Y_p = Y_o + c \cdot x_p + d \cdot y_p$$

<b>Transformationsparametrar, 2D Helmert</b>				Skapad: 21.1.2008
Transformationsparameterfil:				
Frånsystem:	Vänsterhandssystem	Tillsystem:	Vänsterhandssystem	
Rotation kring X-axel:	0.0000	X-translation:	5 524 408.319	
Rotation kring Y-axel:	0.0000	Y-translation:	-4 130 895.128	
Rotation kring Z-axel:	143.8797	Z-translation:	0.000	
Skala:	1.000			
Differens kvadratmedelfel	0.040			
Max differens	-0.067		0.036	
Punkter	X-Differens	Y-Differens	Z-Differens	
<111/111>	-0.067	0.028		
<266/266>	0.004	0.004		
<267/267>	-0.004	0.001		
<302/302>	0.003	-0.021		
<303/303>	0.010	0.013		
<405/405>	0.029	0.020		
<406/406>	0.027	-0.021		
<410/410>	0.022	0.024		
<455/455>	0.047	-0.020		
<1006/1006>	-0.054	0.029		
<2622/2622>	-0.041	-0.029		
<8606/8606>	-0.047	-0.025		
<8607/8607>	0.036	-0.014		
<8608/8608>	0.016	-0.033		
<8617/8617>	-0.008	0.036		
<10000/10000>	0.031	0.033		
<86106/86106>	0.014	-0.021		
<86110/86110>	-0.018	-0.005		

Transformationer Forsmark

RT90 till TU

Formelsamband

$X_p = X_o + a \cdot x_p + b \cdot y_p$	
$Y_p = Y_o + c \cdot x_p + d \cdot y_p$	
Xo	5524408.319
Yo	-4130895.128
Zo	0
a	-0.635831513
b	-0.77155192
e	0
c	0.77155192
d	-0.635831513
f	0

Testvärd 0.050

Transformation

xp yp

	Xp	Yp	dx	dy	dr	test	NR	X	TU	Y	Z	NR	X	RT90	Y	Z
	0.000	0.000	0.000	0.000	0.000		11	4925.12	2435.12							
	6691.067	2658.532	-0.067	0.028	0.073	*	111	6691	2658.56	7.48		111	6700444	1629656	7.467	
	0.000	0.000	0.000	0.000	0.000		118	5844.13	3438.77	5.2						
	0.000	0.000	0.000	0.000	0.000		119	5827.93	3503.15	7.14						
	0.000	0.000	0.000	0.000	0.000		120	5740.15	3613.15	2.35						
	0.000	0.000	0.000	0.000	0.000		251	5120.22	1353.79	0.8						
	3815.686	2960.846	0.004	0.004	0.006		266	3815.69	2960.85			266	6702506	1631683	2.924	
	4167.154	3693.149	-0.004	0.001	0.004		267	4167.15	3693.15			267	6702848	1630946	1.109	
	0.000	0.000	0.000	0.000	0.000		268	3880.55	4238.45	2.6						
	0.000	0.000	0.000	0.000	0.000		301	5990.89	1922.29							
	6179.657	2314.481	0.003	-0.021	0.021		302	6179.66	2314.46			302	6700503	1630269	4.759	
	5867.160	2538.527	0.010	0.013	0.016		303	5867.17	2538.54			303	6700875	1630368	3.531	
	5944.491	3068.690	0.029	0.020	0.035		405	5944.52	3068.71			405	6701235	1629971	6.366	
	6110.993	2807.711	0.027	-0.021	0.034		406	6111.02	2807.69			406	6700928	1630009	5.466	
2.260057205	0.000	0.000	0.000	0.000	0.000		407	6632.53	2753.6							
0.999787017	0.000	0.000	0.000	0.000	0.000		408	6565.55	3009.31							
	5966.098	2905.466	0.022	0.024	0.033		410	5966.12	2905.49			410	6701095	1630058	5.007	
	0.000	0.000	0.000	0.000	0.000		411	6311.91	3218.02							
	6322.693	3092.070	0.047	-0.020	0.052	*	455	6322.74	3092.05			455	6701013	1629664	2.475	
	0.000	0.000	0.000	0.000	0.000		816	3122.256	1646.101							
	0.000	0.000	0.000	0.000	0.000		817	3099.009	1654.574							
	0.000	0.000	0.000	0.000	0.000		1005	6732.77	3421.87	3.42						
	6748.624	3633.061	-0.054	0.029	0.062	*	1006	6748.57	3633.09	7.9		1006	6701159	1628991	7.107	
	3458.471	4367.489	-0.041	-0.029	0.051	*	2622	3458.43	4367.46			2622	6703819	1631064	0.661	
	7725.878	1917.308	-0.078	0.002	0.078	*	3018	7725.8	1917.31	7.94		3018	6699213	1629329	7.957	
	0.000	0.000	0.000	0.000	0.000		3019	7709.05	2041.3	8.8						
	7610.881	2174.082	-0.091	-0.022	0.093	*	3020	7610.79	2174.06	9.21		3020	6699485	1629254	9.216	
	0.000	0.000	0.000	0.000	0.000		3033	8598.04	-252.1							
	8413.306	0.624	-0.176	-0.014	0.176	*	8601	8413.13	0.61			8601	6697297	1630017	19.218	
	8469.195	424.686	-0.185	0.034	0.188	*	8602	8469.01	424.72			8602	6697588	1629704	15.528	
	8348.247	714.076	-0.187	0.034	0.190	*	8603	8348.06	714.11			8603	6697889	1629613	17.079	
	8076.684	938.462	-0.154	0.018	0.155	*	8604	8076.53	938.48			8604	6698235	1629680	18.436	
	0.000	0.000	0.000	0.000	0.000		8605	7616.46	1188.48							
	7249.377	1484.895	-0.047	-0.025	0.053	*	8606	7249.33	1484.87			8606	6699183	1629971	6.976	

6695.144	1872.294	0.036	-0.014	0.039	8607	6695.18	1872.28	8607	6699834	1630153	7.497
6634.274	2132.353	0.016	-0.033	0.037	8608	6634.29	2132.32	8608	6700074	1630034	6.341
0.000	0.000	0.000	0.000	0.000	8610	6454.76	1810.57				
0.000	0.000	0.000	0.000	0.000	8612	5957.48	1709.44				
0.000	0.000	0.000	0.000	0.000	8613	5767.58	1703.6				
0.000	0.000	0.000	0.000	0.000	8614	5780.27	1799.12				
0.000	0.000	0.000	0.000	0.000	8616	5367.98	2179.92				
5057.238	2307.604	-0.008	0.036	0.037	8617	5057.23	2307.64	8617	6701212	1631140	2.188
3895.239	1979.137	0.031	0.033	0.045	10000	3895.27	1979.17	10000	6701698	1632246	2.925
9062.836	-36.203	-0.176	-0.007	0.176	86101	9062.66	-36.21	86101	6696855	1629539	11.383
0.000	0.000	0.000	0.000	0.000	86103	8746.16	236.59				
6242.326	1567.991	0.014	-0.021	0.025	86106	6242.34	1567.97	86106	6699887	1630696	5.824
0.000	0.000	0.000	0.000	0.000	86107	6239.04	1475.57				
0.000	0.000	0.000	0.000	0.000	86109	5982.63	1459.61				
5830.118	1466.675	-0.018	-0.005	0.018	86110	5830.1	1466.67	86110	6700071	1631078	2.229
0.000	0.000	0.000	0.000	0.000	86111	5755.8	1616.19				
0.000	0.000	0.000	0.000	0.000	86112	5967.25	1603.2				
0.000	0.000	0.000	0.000	0.000	86113	6092.13	1710.29				
								700	6701151	1632331	-0.604
								138141	6706565	1623720	16.539
								1288511	6692095	1626509	27.259
								1289590	6697563	1629809	14.502
								PP1001	6701363	1632367	1.51
								SODE0	6705011	1643753	18.385
								SW1001	6701107	1632243	3.492

6702647.7687440645000000	= Xo
1636511.5717572013000000	= Yo
0.0000000000000000	Not used
-0.6361024421824988	= a
0.7718806801521396	= b
0.0000000000000000	Not used
-0.7718806801521396	= c
-0.6361024421824988	= d
0.0000000000000000	Not used
0.0000000000000000	Not used
0.0000000000000000	Not used
1.0000000000000000	Not used
0.0000000000000000	Not used
0.0000000000000000	Not used
-2.2600572046888354	Not used
1.0002130279808741	Not used
2	= Transformation type = Helmert
0	Not used
0	Not used

$$X_p = X_o + a \cdot x_p + b \cdot y_p$$

$$Y_p = Y_o + c \cdot x_p + d \cdot y_p$$



Transformationsparametrar, 2D Helmert				Skapad: 21.1.2008
Transformationsparameterfil:				
Frånsystem:	Vänsterhandssystem	Tillsystem:	Vänsterhandssystem	
Rotation kring X-axel:	0.0000	X-translation:	6 702 647.769	
Rotation kring Y-axel:	0.0000	Y-translation:	1 636 511.572	
Rotation kring Z-axel:	-143.8797	Z-translation:	0.000	
Skala:	1.000			
Differens kvadratmedelfel	0.040			
Max differens	-0.064		-0.052	
Punkter	X-Differens	Y-Differens	Z-Differens	
<1006/1006>	-0.057	-0.024		
<2622/2622>	-0.004	-0.050		
<302/302>	0.018	-0.011		
<8607/8607>	0.034	0.019		
<267/267>	-0.004	-0.002		
<455/455>	0.046	0.024		
<10000/10000>	-0.006	0.045		
<303/303>	-0.004	0.016		
<8617/8617>	-0.033	0.017		
<86106/86106>	0.025	-0.003		
<86110/86110>	-0.007	-0.017		
<266/266>	-0.001	0.006		
<8608/8608>	0.036	-0.009		
<111/111>	-0.064	-0.034		
<405/405>	0.003	0.035		
<8606/8606>	-0.011	-0.052		
<410/410>	-0.005	0.032		
<406/406>	0.033	0.007		



6699834.125	1630152.730	0.034	0.019	0.039	8607	6699834.159	1630152.749	7.497	8607	6695.18	1872.28
6700073.577	1630034.318	0.036	-0.009	0.037	8608	6700073.613	1630034.309	6.341	8608	6634.29	2132.32
6699939.424	1630377.559	0.000	0.000	0.000					8610	6454.76	1810.57
6700177.685	1630825.729	0.000	0.000	0.000					8612	5957.48	1709.44
6700293.973	1630976.024	0.000	0.000	0.000					8613	5767.58	1703.6
6700359.631	1630905.468	0.000	0.000	0.000					8614	5780.27	1799.12
6700915.822	1630981.479	0.000	0.000	0.000					8616	5367.98	2179.92
6701212.075	1631140.098	-0.033	0.017	0.037	8617	6701212.042	1631140.115	2.188	8617	5057.23	2307.64
6701697.661	1632245.933	-0.006	0.045	0.045	10000	6701697.655	1632245.978	2.925	10000	3895.27	1979.17
6696855.039	1629539.313	-0.107	-0.140	0.176	86101	6696854.932	1629539.173	11.383	86101	9062.66	-36.21
6697266.934	1629610.084	0.000	0.000	0.000					86103	8746.16	236.59
6699887.287	1630695.841	0.025	-0.003	0.025	86106	6699887.312	1630695.838	5.824	86106	6242.34	1567.97
6699818.064	1630757.164	0.000	0.000	0.000					86107	6239.04	1475.57
6699968.848	1630965.234	0.000	0.000	0.000					86109	5982.63	1459.61
6700071.322	1631078.478	-0.007	-0.017	0.018	86110	6700071.315	1631078.461	2.229	86110	5830.1	1466.67
6700233.996	1631040.719	0.000	0.000	0.000					86111	5755.8	1616.19
6700089.466	1630885.767	0.000	0.000	0.000					86112	5967.25	1603.2
6700092.690	1630721.255	0.000	0.000	0.000					86113	6092.13	1710.29
					700	6701151.367	1632330.808	-0.604			
					138141	6706564.931	1623719.503	16.539			
					1288511	6692095.455	1626509.381	27.259			
					1289590	6697563.24	1629809.046	14.502			
					PP1001	6701362.581	1632367.392	1.51			
					SODE0	6705011.415	1643752.816	18.385			
					SW1001	6701107.444	1632243.344	3.492			

### Transformationer Forsmark

### RT90 till TU

#### Formelsamband

$X_p = X_o + a \cdot x_p + b \cdot y_p$	
$Y_p = Y_o + c \cdot x_p + d \cdot y_p$	
Xo	5524408.319
Yo	-4130895.128
Zo	0
a	-0.635831513
b	-0.77155192
e	0
c	0.77155192
d	-0.635831513
f	0

#### Helmertransformasjon

Parametrar hämtade ur appendix 5a

Xp= T-koordinat  
Yp= U-koordinat  
  
xp=X-koordinat i RT90  
yp=Y-koordinat i RT90

0  
0  
1  
0  
0  
2.260057205  
0.999787017  
2  
0  
0

### Transformationer Forsmark

### TU till RT90

#### Formelsamband

$X_p = X_o + a \cdot x_p + b \cdot y_p$	
$Y_p = Y_o + c \cdot x_p + d \cdot y_p$	
Xo	6702647.769
Yo	1636511.572
Zo	0
a	-0.636102442
b	0.77188068
e	0
c	-0.77188068
d	-0.636102442
f	0

#### Helmertransformasjon

Parametrar hämtade ur appendix 6a

Xp=X-koordinat i RT90  
Yp=Y-koordinat i RT90  
  
xp= T-koordinat  
yp= U-koordinat

0  
0  
1  
0  
0  
-2.260057205  
1.000213028  
2  
0  
0



## Observation exclusion from adjustment

### Observations:

Use	Obs	From point	To point	Type	Variance Group	Std Res (Max)
<input type="checkbox"/>	B150	8602	86112	Static	<GPS Default>	?
<input type="checkbox"/>	B125	8601	86112	Static	<GPS Default>	?
<input type="checkbox"/>	B93	8603	86112	Static	<GPS Default>	?
<input type="checkbox"/>	B75	302	3020	Static	<GPS Default>	?
<input type="checkbox"/>	B103	8608	8603	Static	<GPS Default>	?
<input type="checkbox"/>	B151	8608	8602	Static	<GPS Default>	?
<input type="checkbox"/>	B105	8608	86106	Static	<GPS Default>	?
<input type="checkbox"/>	B149	86106	8602	Static	<GPS Default>	?
<input type="checkbox"/>	B78	3020	8604	Static	<GPS Default>	?
<input type="checkbox"/>	B80	3020	8603	Static	<GPS Default>	?
<input type="checkbox"/>	B143	8608	3018	Static	<GPS Default>	?
<input type="checkbox"/>	B85	8604	86106	Static	<GPS Default>	?
<input type="checkbox"/>	B124	8601	86106	Static	<GPS Default>	?
<input type="checkbox"/>	B126	8601	8608	Static	<GPS Default>	?

Horisontell nätutjämnning		Skapad: 2008-01-08		
Nätutjämningsfil:	P:\2173\2416545002 SKB stomnät SFR\SKG stomnät\11_Matn\xyz\Utj_plan.hna			
Beräkning:	Utjämnning	Metod:	Utjämnning med fast punkt och riktning	
Antal observationer:	690	Kontrollerbarhet:	0,54	
Antal obekanta:	320	Min tillåtna (HMK):	0,50	
Rangdefekt:	0			
Redundans:	370	Grundmedelfel:	1,00	
		Max tillåtna (HMK):	1,05	
<b>Apriorifel</b>				
<i>(Notera: Dessa är de senast använda standardinställningarna, värden kan skilja vid enskilda mätningar)</i>				
Riktningar:	0,000400	Antal helsatser:	2	
Orienterade riktningar:	0,002000	Antal helsatser:	2	
Längder:	0,000200 + 3,000000 ppm			
Centrering:	0,000500	Koordinater:	0,020000	
		Koordinatdifferenser:	0,002000	
<b>Standardiserade residualer</b>				
Sigmanivå	Värde	Antal observationer	Ackumulerad (%)	Teoretisk (%)
1	0.0 - 1.0	473	68,55	68,06
2	1.0 - 2.0	156	91,16	95,63
3	2.0 - 3.0	41	97,10	99,71
3+	3.0 -	0	97,10	100,00
?	Ej beräkningsbar	20	100,00	

Horisontell nätutjämnning, Kända punkter						Skapad: 2008-01-08
Antal punkter: 3						
Punkt	X	Y	a-axel	b-axel	vinkel	
Centreringsfel.			sX	sY	a/b	
1001 0,000500	6 701 362,581000	1 632 367,392000	0,000000 0,000000	0,000000 0,000000	50,000000	
700 0,000500	6 701 151,367000	1 632 330,808000	0,000000 0,000000	0,000000 0,000000	50,000000	
SW1001 0,000500	6 701 107,444000	1 632 243,344000	0,000000 0,000000	0,000000 0,000000	50,000000	



Horisontell nätutjämnning, Nypunkter					Skapad: 2008-01-08
Antal punkter: 134					
Punkt	X	Y	a-axel	b-axel	vinkel
Centreringsfel.			sX	sY	a/b
1001 0,000500	6 701 362,541231	1 632 367,385112	0,001865 0,001070	0,000753 0,001703	129,396531 0,403619
816 0,000500	6 701 932,116432	1 633 054,315597	0,001037 0,000947	0,000677 0,000799	163,655726 0,652898
817 0,000500	6 701 953,438701	1 633 066,866666	0,001212 0,001053	0,000715 0,000933	158,019663 0,589359
BST0035H 0,000500	6 701 989,647556	1 632 969,307359	0,001126 0,000676	0,000667 0,001120	91,896704 0,592056
BST0117V 0,000500	6 702 025,200258	1 632 894,781987	0,001761 0,001245	0,000758 0,001458	57,321548 0,430632
BST0140S 0,000500	6 702 034,084757	1 632 885,443420	0,001902 0,001337	0,000705 0,001526	55,571747 0,370812
BT0000H 0,000500	6 701 222,962025	1 632 317,466150	0,001202 0,000795	0,000728 0,001159	121,696500 0,605394
BT0018H 0,000500	6 701 241,053060	1 632 311,073536	0,001071 0,000757	0,000644 0,000994	130,876998 0,601388
BT0035S 0,000500	6 701 256,670538	1 632 302,054852	0,000975 0,000739	0,000520 0,000821	143,997820 0,533634
BT0047V 0,000500	6 701 269,702704	1 632 300,856830	0,001005 0,000841	0,000615 0,000825	151,329914 0,611778
BT0059H 0,000500	6 701 280,136647	1 632 310,787212	0,000929 0,000797	0,000616 0,000779	151,912740 0,662973
BT0082S 0,000500	6 701 303,182498	1 632 314,539627	0,000773 0,000696	0,000493 0,000596	161,915403 0,637882
BT0099V 0,000500	6 701 317,786253	1 632 323,266128	0,000804 0,000764	0,000640 0,000688	165,309358 0,796271
BT0117H 0,000500	6 701 323,157013	1 632 342,558074	0,000747 0,000697	0,000617 0,000673	156,158814 0,826265
BT0180S 0,000500	6 701 368,201722	1 632 386,448191	0,000573 0,000503	0,000452 0,000528	143,266147 0,789667
BT0202V 0,000500	6 701 383,484167	1 632 402,168385	0,000746 0,000637	0,000548 0,000671	144,536629 0,734770
BT0212H 0,000500	6 701 383,627276	1 632 415,567830	0,000771 0,000661	0,000545 0,000674	148,160192 0,706471
BT0278H 0,000500	6 701 426,196795	1 632 466,922132	0,000974 0,000769	0,000455 0,000751	151,156622 0,467369

Horisontell nätutjämnning, Nypunkter						Skapad: 2008-01-08
Antal punkter: 134						
Punkt	X	Y	a-axel	b-axel	vinkel	
Centreringsfel.			sX	sY	a/b	
BT0278S 0,000500	6 701 430,372629	1 632 463,301196	0,000909 0,000695	0,000395 0,000706	149,216448 0,434691	
BT0344H 0,000500	6 701 467,693540	1 632 517,947801	0,001318 0,001028	0,000500 0,000965	152,709398 0,379213	
BT0345V 0,000500	6 701 475,031238	1 632 513,586394	0,001328 0,001039	0,000637 0,001044	149,742390 0,480076	
BT0401S 0,000500	6 701 505,054259	1 632 559,791953	0,001450 0,001101	0,000422 0,001034	152,367723 0,290914	
BT0452H 0,000500	6 701 536,947492	1 632 601,563880	0,001728 0,001316	0,000477 0,001217	152,893578 0,276079	
BT0461V 0,000500	6 701 548,766103	1 632 602,640933	0,001741 0,001309	0,000503 0,001252	151,672915 0,289056	
BT0500S 0,000500	6 701 568,231943	1 632 636,595967	0,001738 0,001306	0,000415 0,001219	152,482587 0,238641	
BT0561V 0,000500	6 701 611,856860	1 632 679,293899	0,001916 0,001472	0,000743 0,001434	151,115358 0,387892	
BT0587S 0,000500	6 701 625,725317	1 632 699,907871	0,001864 0,001375	0,000323 0,001299	151,912830 0,173421	
BT0588H 0,000500	6 701 621,405494	1 632 704,373594	0,001949 0,001444	0,000403 0,001369	151,858271 0,206851	
BT0635H 0,000500	6 701 652,355045	1 632 741,839969	0,001931 0,001446	0,000523 0,001382	151,666756 0,271074	
BT0637V 0,000500	6 701 659,990915	1 632 738,274725	0,001938 0,001450	0,000476 0,001371	152,000741 0,245550	
BT0685S 0,000500	6 701 686,094028	1 632 779,662873	0,001672 0,001218	0,000357 0,001199	150,551237 0,213352	
BT0754H 0,000500	6 701 727,146213	1 632 833,130843	0,001505 0,001095	0,000489 0,001142	148,365422 0,325338	
BT0754V 0,000500	6 701 734,327689	1 632 827,954862	0,001486 0,001121	0,000545 0,001117	150,141789 0,366674	
BT0806H 0,000500	6 701 758,879055	1 632 876,240727	0,001246 0,000893	0,000489 0,000997	145,184151 0,392310	
BT0814S 0,000500	6 701 767,049623	1 632 878,468245	0,001151 0,000809	0,000356 0,000893	146,212414 0,309105	
BT0855V	6 701 798,894888	1 632 905,735789	0,001056	0,000582	146,676476	

Horisontell nätutjämnig, Nypunkter					Skapad: 2008-01-08
Antal punkter: 134					
Punkt	X	Y	a-axel	b-axel	vinkel
Centreringsfel.			sX	sY	a/b
0,000500			0,000828	0,000876	0,550947
BT0856H	6 701 794,402183	1 632 912,169983	0,001032	0,000531	143,515837
0,000500			0,000771	0,000868	0,514366
BT0897S	6 701 828,235656	1 632 939,049370	0,000715	0,000346	142,230644
0,000500			0,000518	0,000602	0,484222
BT0900V	6 701 834,270361	1 632 933,656829	0,000815	0,000484	148,990054
0,000500			0,000666	0,000676	0,594069
BT0909H	6 701 837,160829	1 632 945,501659	0,000798	0,000470	143,315545
0,000500			0,000621	0,000687	0,588729
BT0929H	6 701 854,558727	1 632 956,396353	0,000711	0,000522	142,913751
0,000500			0,000603	0,000644	0,733986
BT0930V	6 701 860,060223	1 632 950,069095	0,000724	0,000659	172,563842
0,000500			0,000713	0,000671	0,911069
BT0962H	6 701 882,355089	1 632 974,510165	0,000566	0,000451	137,320453
0,000500			0,000489	0,000533	0,797027
BT0963S	6 701 888,089584	1 632 969,213345	0,000478	0,000371	142,643160
0,000500			0,000415	0,000440	0,774676
BT0982V	6 701 901,004829	1 632 982,645138	0,000592	0,000497	135,132293
0,000500			0,000525	0,000567	0,839522
BT0986V	6 701 900,188074	1 632 950,964767	0,000861	0,000816	182,029106
0,000500			0,000858	0,000820	0,948150
BT0988S	6 701 898,852693	1 632 955,800945	0,000846	0,000809	171,779743
0,000500			0,000839	0,000816	0,956066
BT0991H	6 701 897,972676	1 632 994,272092	0,000642	0,000552	133,020291
0,000500			0,000576	0,000621	0,860040
BT1008V	6 701 909,430142	1 633 006,797251	0,000676	0,000559	139,634891
0,000500			0,000601	0,000639	0,826751
BT1059S	6 701 922,891523	1 633 056,920827	0,000867	0,000469	169,642292
0,000500			0,000800	0,000576	0,541118
BT1085V	6 701 930,830721	1 633 080,992808	0,001144	0,000619	173,634445
0,000500			0,001077	0,000730	0,541111
BT1087H	6 701 923,417202	1 633 085,681653	0,001144	0,000618	178,419063
0,000500			0,001099	0,000696	0,539668
BT1095S	6 701 930,053064	1 633 092,537093	0,001166	0,000547	177,928811
0,000500			0,001113	0,000649	0,468656

Horisontell nätutjämnning, Nypunkter						Skapad: 2008-01-08
Antal punkter: 134						
Punkt	X	Y	a-axel	b-axel	vinkel	
Centreringsfel.			sX	sY	a/b	
BT1106H 0,000500	6 701 935,146144	1 633 102,776047	0,001294 0,001234	0,000606 0,000720	177,859904 0,468023	
BT1139H 0,000500	6 701 965,071892	1 633 121,160122	0,001565 0,001426	0,000638 0,000907	170,210688 0,407720	
BT1149V 0,000500	6 701 978,054006	1 633 120,396089	0,001622 0,001418	0,000642 0,001016	164,569371 0,396053	
BT1170H 0,000500	6 701 991,851346	1 633 139,817739	0,001851 0,001593	0,000597 0,001116	163,824094 0,322425	
BT1170S 0,000500	6 701 994,321432	1 633 136,577041	0,001827 0,001541	0,000523 0,001113	162,078311 0,286036	
CT0000S 0,000500	6 701 965,787174	1 632 995,592622	0,000833 0,000464	0,000439 0,000820	113,677369 0,526586	
CT0015H 0,000500	6 701 973,346794	1 633 008,583751	0,001000 0,000642	0,000590 0,000968	120,201619 0,590360	
CT0015V 0,000500	6 701 979,447094	1 632 998,744180	0,000995 0,000568	0,000540 0,000979	113,501676 0,543185	
CT0055V 0,000500	6 702 013,364386	1 633 022,121977	0,001328 0,000701	0,000598 0,001277	119,969123 0,449997	
CT0061H 0,000500	6 702 015,073741	1 633 032,124972	0,001371 0,000753	0,000596 0,001291	124,366388 0,434478	
CT0090S 0,000500	6 702 044,913042	1 633 044,225890	0,001617 0,000724	0,000447 0,001513	123,921755 0,276369	
DT0000V 0,000500	6 701 216,386170	1 632 298,299974	0,001300 0,000774	0,000616 0,001213	126,884496 0,473337	
DT0001H 0,000500	6 701 219,885603	1 632 302,631646	0,001268 0,000774	0,000644 0,001193	125,680739 0,508016	
DT00121V 0,000500	6 701 329,431914	1 632 306,159125	0,000870 0,000867	0,000706 0,000709	191,555498 0,812142	
DT0015S 0,000500	6 701 229,938065	1 632 291,812583	0,001199 0,000770	0,000540 0,001065	134,340011 0,450240	
DT0038V 0,000500	6 701 251,668985	1 632 283,635020	0,001114 0,000853	0,000548 0,000902	147,083885 0,491838	
DT0043H 0,000500	6 701 258,636755	1 632 288,940205	0,001085 0,000863	0,000613 0,000899	147,435753 0,564713	
DT0047S 0,000500	6 701 261,203890	1 632 282,704057	0,001046 0,000827	0,000493 0,000809	151,137798 0,471381	

Horisontell nätutjämnning, Nypunkter					Skapad: 2008-01-08
Antal punkter:		134			
Punkt	X	Y	a-axel	b-axel	vinkel
Centreringsfel.			sX	sY	a/b
DT0076H 0,000500	6 701 288,422718	1 632 289,975009	0,000962 0,000861	0,000604 0,000741	161,142472 0,628274
DT0078V 0,000500	6 701 292,541406	1 632 284,997695	0,000935 0,000841	0,000545 0,000681	163,930763 0,582937
DT0099S 0,000500	6 701 311,503123	1 632 293,287553	0,000798 0,000753	0,000457 0,000527	173,681646 0,573257
DT0120H 0,000500	6 701 324,491365	1 632 309,567646	0,000752 0,000730	0,000545 0,000574	177,358088 0,724848
DT0121V 0,000500	6 701 329,433366	1 632 306,159956	0,000874 0,000868	0,000714 0,000721	186,918479 0,816695
DT0138S 0,000500	6 701 340,043809	1 632 319,729040	0,000624 0,000620	0,000458 0,000463	189,687007 0,734119
DT0190V 0,000500	6 701 374,283916	1 632 359,554667	0,000561 0,000557	0,000553 0,000557	146,942581 0,987008
DT0194H 0,000500	6 701 372,342119	1 632 366,200433	0,000576 0,000572	0,000563 0,000567	163,734460 0,976775
DT0225H 0,000500	6 701 410,874100	1 632 412,314284	0,000752 0,000634	0,000574 0,000702	137,356882 0,764339
DT0225S 0,000500	6 701 395,933885	1 632 386,803312	0,000547 0,000459	0,000443 0,000534	124,163090 0,810725
DT0255H 0,000500	6 701 410,874241	1 632 412,314722	0,001175 0,001031	0,000882 0,001046	148,421036 0,750874
DT0305S 0,000500	6 701 444,025978	1 632 451,444406	0,000916 0,000664	0,000391 0,000743	144,865139 0,426948
DT0305V 0,000500	6 701 447,812170	1 632 448,196096	0,000966 0,000698	0,000442 0,000801	143,257533 0,457893
DT0368V 0,000500	6 701 487,052704	1 632 496,159541	0,001199 0,000893	0,000531 0,000960	146,573917 0,443142
DT0369H 0,000500	6 701 482,869715	1 632 500,292692	0,001198 0,000903	0,000529 0,000949	147,652109 0,441418
DT0425S 0,000500	6 701 523,294942	1 632 541,314815	0,001300 0,000933	0,000405 0,000991	147,676650 0,311882
DT0513H 0,000500	6 701 574,734100	1 632 611,395281	0,001646 0,001228	0,000502 0,001205	150,735569 0,305277
DT0513V	6 701 579,294795	1 632 607,866895	0,001658	0,000477	149,851604

Horisontell nätutjämnning, Nypunkter					Skapad: 2008-01-08
Antal punkter: 134					
Punkt	X	Y	a-axel	b-axel	vinkel
Centreringsfel.			sX	sY	a/b
0,000500			0,001217	0,001222	0,287589
DT0556S	6 701 606,610600	1 632 641,842276	0,001745	0,000407	150,225760
0,000500			0,001271	0,001263	0,233255
DT0614S	6 701 639,431804	1 632 688,737418	0,001908	0,000335	151,820659
0,000500			0,001406	0,001332	0,175728
DT0615V	6 701 644,113047	1 632 686,511180	0,001971	0,000399	151,642311
0,000500			0,001456	0,001388	0,202257
DT0674V	6 701 682,253568	1 632 732,775322	0,001852	0,000475	152,205726
0,000500			0,001392	0,001310	0,256442
DT0685H	6 701 685,470452	1 632 745,623974	0,001811	0,000497	151,326076
0,000500			0,001352	0,001304	0,274165
DT0735S	6 701 717,282648	1 632 782,989977	0,001648	0,000405	151,109390
0,000500			0,001218	0,001181	0,245975
DT0772H	6 701 739,489916	1 632 811,918819	0,001557	0,000578	150,620441
0,000500			0,001183	0,001166	0,371386
DT0795V	6 701 758,966966	1 632 825,692135	0,001471	0,000580	151,410851
0,000500			0,001136	0,001100	0,394374
DT0855S	6 701 793,812379	1 632 874,940982	0,001174	0,000428	150,028517
0,000500			0,000884	0,000883	0,364409
DT0900V	6 701 828,233258	1 632 903,909183	0,001121	0,000562	152,004602
0,000500			0,000903	0,000870	0,500991
DT0902H	6 701 825,865083	1 632 909,992738	0,001101	0,000520	150,007600
0,000500			0,000861	0,000861	0,471941
DT0939S	6 701 858,006721	1 632 929,468401	0,000775	0,000423	156,350206
0,000500			0,000657	0,000590	0,545620
DT0986V	6 701 900,186211	1 632 950,964642	0,000587	0,000517	170,421016
0,000500			0,000573	0,000532	0,881476
DT0988S	6 701 898,852070	1 632 955,800809	0,000521	0,000437	163,091592
0,000500			0,000498	0,000464	0,839004
NBT0050V	6 701 818,846398	1 632 983,894190	0,000788	0,000590	113,956257
0,000500			0,000601	0,000780	0,748693
NBT0051H	6 701 811,001334	1 632 982,858712	0,000829	0,000591	112,955522
0,000500			0,000602	0,000821	0,712800
NBT0100S	6 701 798,113673	1 633 030,265451	0,000902	0,000555	68,881075
0,000500			0,000648	0,000838	0,615697

Horisontell nätutjämnning, Nypunkter						Skapad: 2008-01-08
Antal punkter: 134						
Punkt	X	Y	a-axel	b-axel	vinkel	
Centreringsfel.			sX	sY	a/b	
NBT0138 0,000500	6 701 789,496102	1 633 068,608718	0,001340 0,001174	0,000942 0,001143	47,483545 0,703158	
NBT0138H 0,000500	6 701 789,500424	1 633 068,607144	0,001252 0,001025	0,000705 0,001007	48,899220 0,563600	
NBT0150H 0,000500	6 701 794,816979	1 633 081,610264	0,001312 0,001131	0,000693 0,000961	40,734353 0,528264	
NBT0150S 0,000500	6 701 797,889053	1 633 078,998560	0,001255 0,001081	0,000616 0,000887	39,691406 0,490989	
NBT0213V 0,000500	6 701 863,537749	1 633 085,604867	0,001296 0,001255	0,001039 0,001088	172,500727 0,801806	
NBT0246H 0,000500	6 701 896,606619	1 633 099,354872	0,001782 0,001529	0,001208 0,001516	150,725183 0,678260	
NBT0312H 0,000500	6 701 960,145187	1 633 109,599223	0,002735 0,001549	0,001103 0,002509	128,624433 0,403515	
NBT0345S 0,000500	6 701 992,537100	1 633 113,193667	0,003266 0,001552	0,001043 0,003058	124,213919 0,319418	
NBT0360H 0,000500	6 702 005,636086	1 633 108,307395	0,003497 0,001632	0,001203 0,003318	121,827269 0,343894	
NBT0396S 0,000500	6 702 020,222998	1 633 070,541019	0,003582 0,001159	0,001101 0,003564	106,784204 0,307205	
NBT0405V 0,000500	6 702 024,362908	1 633 062,656211	0,003652 0,001131	0,001109 0,003645	104,011130 0,303800	
NBT0420H 0,000500	6 702 040,309092	1 633 052,695762	0,003931 0,001123	0,001122 0,003931	100,540681 0,285518	
ST0033H 0,000500	6 702 023,418327	1 633 071,621436	0,001610 0,001022	0,000592 0,001378	137,572511 0,368026	
ST0033V 0,000500	6 702 032,010669	1 633 076,388874	0,001696 0,001057	0,000594 0,001454	137,081108 0,350379	
ST0081S 0,000500	6 701 999,106733	1 633 112,037759	0,001649 0,001301	0,000516 0,001136	155,242944 0,312639	
ST0084H 0,000500	6 701 997,231657	1 633 114,755268	0,001672 0,001345	0,000575 0,001148	156,390004 0,344144	
SW1000 0,000500	6 701 163,990545	1 632 335,848291	0,001782 0,000710	0,000706 0,001781	97,190816 0,396272	
SW1001 0,000500	6 701 107,445913	1 632 243,362189	0,002738 0,001279	0,000632 0,002502	127,412841 0,230747	

Horisontell nätutjämnning, Nypunkter						Skapad: 2008-01-08
Antal punkter: 134						
Punkt	X	Y	a-axel	b-axel	vinkel	
Centreringsfel.			sX	sY	a/b	
SW1002 0,000500	6 701 170,120452	1 632 337,567748	0,001723 0,000765	0,000761 0,001722	96,891982 0,441593	
SW1003 0,000500	6 701 204,510322	1 632 342,805987	0,001340 0,000784	0,000779 0,001337	94,770915 0,581008	
SW1004 0,000500	6 701 210,955850	1 632 325,314425	0,001320 0,000799	0,000786 0,001313	108,639312 0,595555	
SW1005 0,000500	6 701 200,317546	1 632 301,705705	0,001478 0,000830	0,000725 0,001422	120,294193 0,490484	
SW1006 0,000500	6 701 288,952314	1 632 157,803018	0,002469 0,002461	0,001081 0,001097	5,416376 0,437831	
SW1007 0,000500	6 701 270,383941	1 632 353,337148	0,001083 0,000930	0,000842 0,001008	139,392593 0,777610	
TT0024S 0,000500	6 701 788,224318	1 632 861,437063	0,001186 0,000933	0,000471 0,000871	153,038050 0,397119	
TT0054H 0,000500	6 701 813,813198	1 632 845,839484	0,001303 0,001156	0,000795 0,000997	160,456252 0,610270	
TT0088H 0,000500	6 701 841,069962	1 632 822,891080	0,001356 0,001316	0,001039 0,001088	175,709877 0,766002	
TT0120H 0,000500	6 701 862,480497	1 632 799,164857	0,001352 0,001343	0,000941 0,000955	189,423019 0,696148	



Horisontell nätutjämnning, förflyttning av kända punkter							Skapad: 2008-01-08	
Antal punkter:		3						
Punkt	X på fil	Y på fil	Ny X	Ny Y	X Diff	Y Diff		
1001	6 701 362,58100	1 632 367,39200	6 701 362,54123	1 632 367,38511	-0,039769	-0,006888		
SW1001	6 701 107,44400	1 632 243,34400	6 701 107,44591	1 632 243,36218	0,001913	0,018189		

## Horisontell nätutjämnning, Riktningar

 Skapad:  
2008-01-08

Typ	Från punkt	Värde	Residual	Utj.riktning	Std Residual
	Till punkt	Apr medelfel	Utj medelfel	Orienterad riktn	Kontrollerbarhet
			MUF	YT	
			Från punkt	Till punkt	
Max residual:	0,010251		BT0587S	BT0588H	
Max std residual:	2,803010		BT0963S	BT0897S	
Antal stationer:	50				
Antal riktningar:	353				
Riktning	NBT0100S	73,448007	-0,000164	73,447844	-0,847715
	BT0900V	0,000283	0,000371	322,798707	!! 0,213148
			0,001715	0,001350	
Riktning	NBT0100S	77,415555	-0,000243	77,415312	-0,559656
	NBT0050V	0,000283	0,000532	326,766175	?? 0,399672
			0,001253	0,000752	
Riktning	NBT0100S	67,546725	?? 0,000724	67,547449	1,622402
	NBT0051H	0,000283	0,000548	316,898312	?? 0,399010
			0,001254	0,000753	
Riktning	NBT0100S	264,717388	-0,000480	264,716907	-0,884510
	NBT0138H	0,000283	0,000663	114,067770	?? 0,401300
			0,001250	0,000748	
Riktning	NBT0100S	250,941568	!! 0,000997	250,942565	1,999838
	NBT0150S	0,000283	0,000507	100,293427	?? 0,491554
			0,001130	0,000574	
Riktning	NBT0100S	254,731685	?? -0,000609	254,731076	-1,432350
	NBT0150H	0,000283	0,000530	104,081939	?? 0,391119
			0,001266	0,000771	
Riktning	NBT0150S	267,372485	-0,000142	267,372343	-1,066448
	NBT0100S	0,000283	0,000699	300,293427	!! 0,034960
			0,004236	0,004088	
Riktning	NBT0150S	223,841235	!! 0,001310	223,842545	0,909818
	NBT0138H	0,000283	0,001917	256,763629	?? 0,360884
			0,001318	0,000843	
Riktning	NBT0150S	122,221940	!! 0,002201	122,224141	0,443244
	NBT0150H	0,000283	0,006133	155,145225	?? 0,395889
			0,001259	0,000760	
Riktning	NBT0150S	373,463947	-0,000145	373,463802	-0,482882
	NBT0213V	0,000283	0,000471	6,384887	!! 0,289039
			0,001473	0,001047	
Riktning	NBT0150S	380,024780	0,000258	380,025038	0,953367
	NBT0246H	0,000283	0,000325	12,946122	?? 0,409397
			0,001238	0,000731	
Riktning	NBT0150S	378,945930	-0,000081	378,945849	-0,332435
	NBT0312H	0,000283	0,000241	11,866933	?? 0,502405
			0,001117	0,000556	

## Horisontell nätutjämning, Riktningar

 Skapad:  
2008-01-08

Typ	Från punkt	Värde	Residual	Utj.riktning	Std Residual
	Till punkt	Apr medelfel	Utj medelfel	Orienterad riktn	Kontrollerbarhet
			MUF	YT	
Max residual:	0,010251				
Max std residual:	2,803010				
Antal stationer:	50				
Antal riktningar:	353				
			Från punkt	Till punkt	
			BT0587S	BT0588H	
			BT0963S	BT0897S	
Riktning	NBT0150S	378,149895	-0,000028	378,149867	-0,126056
	NBT0345S	0,000283	0,000234	11,070951	?? 0,483114
			0,001139	0,000589	
Riktning	NBT0345S	323,949753	-0,000109	323,949644	-0,435557
	NBT0150S	0,000283	0,000208	211,070951	?? 0,591261
			0,001030	0,000421	
Riktning	NBT0345S	322,962650	0,000083	322,962733	0,343944
	NBT0150H	0,000283	0,000217	210,084040	?? 0,551004
			0,001067	0,000479	
Riktning	NBT0345S	326,292013	-0,000143	326,291869	-0,540821
	NBT0213V	0,000283	0,000260	213,413176	?? 0,509957
			0,001109	0,000543	
Riktning	NBT0345S	321,999298	0,000259	321,999557	0,953367
	NBT0246H	0,000283	0,000337	209,120864	?? 0,394269
			0,001261	0,000764	
Riktning	NBT0345S	319,914413	-0,000104	319,914309	-0,245034
	NBT0312H	0,000283	0,000924	207,035616	!! 0,173069
			0,001904	0,001574	
Riktning	NBT0345S	90,150238	!! -0,001392	90,148845	-1,052833
	NBT0360H	0,000283	0,001873	377,270152	!! 0,332609
			0,001373	0,000916	
Riktning	NBT0345S	48,656953	0,000126	48,657078	0,359953
	NBT0405V	0,000283	0,000491	335,778385	!! 0,336949
			0,001364	0,000905	
Riktning	NBT0345S	55,430138	-0,000020	55,430117	-0,085129
	NBT0420H	0,000283	0,000439	342,551424	!! 0,230761
			0,001649	0,001268	
Riktning	NBT0396S	268,645823	0,000280	268,646102	1,011699
	NBT0345S	0,000283	0,000628	136,652958	!! 0,162434
			0,001965	0,001646	
Riktning	NBT0396S	255,458600	-0,000355	255,458245	-1,052833
	NBT0360H	0,000283	0,000764	123,465101	!! 0,162837
			0,001963	0,001643	
Riktning	NBT0396S	62,773278	-0,000495	62,772783	-0,269676
	NBT0405V	0,000283	0,003075	330,779638	!! 0,262690

## Horisontell nätutjämning, Riktningar

 Skapad:  
2008-01-08

Typ	Från punkt Till punkt	Värde Apr medelfel	Residual Utj medelfel	Utj.riktning Orienterad riktn	Std Residual Kontrollerbarhet
			MUF	YT	
			0,001545	0,001139	
Max residual:	0,010251				
Max std residual:	2,803010				
Antal stationer:	50				
Antal riktningar:	353				
Riktning	NBT0396S NBT0420H	85,749750 0,000283	-0,000069 0,001109	85,749681 353,756537	-0,138009 !! 0,168984
			0,001927	0,001601	
Riktning	DT0047S DT0000V	135,819248 0,000283	-0,000108 0,000514	135,819139 178,680938	-0,210825 ?? 0,500575
			0,001119	0,000559	
Riktning	DT0047S DT0001H	128,529100 0,000283	0,000474 0,000537	128,529574 171,391373	0,909245 ?? 0,485328
			0,001137	0,000585	
Riktning	DT0047S DT0015S	139,092050 0,000283	?? -0,000714 0,000541	139,091336 181,953135	-0,829183 0,717136
			0,000935	0,000265	
Riktning	DT0047S DT0038V	150,939645 0,000283	!! 0,002408 0,002123	150,942053 193,803852	0,938036 ?? 0,593929
			0,001028	0,000417	
Riktning	DT0047S DT0043H	81,996198 0,000283	!! 0,002798 0,003682	81,998995 124,860794	0,945662 ?? 0,392232
			0,001265	0,000769	
Riktning	DT0047S DT0076H	373,756310 0,000283	-0,000139 0,000881	373,756171 16,617969	-0,183267 ?? 0,426192
			0,001213	0,000696	
Riktning	DT0047S DT0078V	361,789193 0,000283	0,000227 0,000702	361,789419 4,651218	0,290094 ?? 0,553748
			0,001064	0,000475	
Riktning	DT0047S DT0099S	370,340955 0,000283	-0,000183 0,000510	370,340772 13,202571	-0,406217 ?? 0,438089
			0,001197	0,000672	
Riktning	DT0099S DT0038V	199,530000 0,000283	0,000497 0,000436	199,530497 210,182320	1,223484 ?? 0,465223
			0,001161	0,000621	
Riktning	DT0099S DT0047S	202,550935 0,000283	-0,000187 0,000419	202,550748 213,202571	-0,348840 ?? 0,619973
			0,001006	0,000382	
Riktning	DT0099S	198,423428	-0,000333	198,423095	-0,369527

## Horisontell nätutjämning, Riktningar

 Skapad:  
2008-01-08

Typ	Från punkt	Värde	Residual	Utj.riktning	Std Residual
	Till punkt	Apr medelfel	Utj medelfel	Orienterad riktn	Kontrollerbarhet
			MUF	YT	
	DT0076H	0,000283	0,001062	209,074917	?? 0,418268
			0,001225	0,000712	
Riktning	DT0099S	215,586465	-0,000032	215,586433	-0,026764
	DT0078V	0,000283	0,001003	226,238255	?? 0,588357
			0,001032	0,000425	
Riktning	DT0099S	46,478855	-0,000487	46,478368	-0,436118
	DT0120H	0,000283	0,001079	57,130190	?? 0,517671
			0,001101	0,000531	
Riktning	DT0099S	28,987740	-0,000000	28,987740	?
	DT00121V	0,000283	0,001468	39,639562	!! 0,000000
			?	?	
Riktning	DT0099S	36,918500	0,000268	36,918768	0,356913
	DT0138S	0,000283	0,000431	47,570590	0,751703
			0,000913	0,000227	
Riktning	DT0099S	41,067765	-0,000132	41,067633	-0,399222
	DT0190V	0,000283	0,000303	51,719455	?? 0,544389
			0,001073	0,000489	
Riktning	DT0099S	42,595643	-0,000045	42,595598	-0,175628
	DT0225S	0,000283	0,000281	53,247420	?? 0,449667
			0,001181	0,000650	
Riktning	DT0138S	326,579490	0,000117	326,579607	0,283969
	DT0078V	0,000283	0,000450	240,191529	?? 0,456296
			0,001172	0,000637	
Riktning	DT0138S	333,958665	0,000003	333,958668	0,004367
	DT0099S	0,000283	0,000512	247,570590	?? 0,649733
			0,000983	0,000344	
Riktning	DT0138S	323,231625	-0,000079	323,231546	-0,064228
	DT0120H	0,000283	0,001213	236,843468	?? 0,510045
			0,001109	0,000543	
Riktning	DT0138S	344,139315	0,000000	344,139315	?
	DT0121V	0,000283	0,001868	257,751237	!! 0,000000
			?	?	
Riktning	DT0138S	141,180020	-0,000072	141,179948	-0,144658
	DT0190V	0,000283	0,000449	54,791870	?? 0,549120
			0,001069	0,000482	

## Horisontell nätutjämnning, Riktningar

Skapad:  
2008-01-08

Max residual:		0,010251	Från punkt	BT0587S	Till punkt	BT0588H
Max std residual:		2,803010		BT0963S		BT0897S
Antal stationer:		50				
Antal riktningar:		353				
Typ	Från punkt	Värde	Residual	Utj.riktning	Std Residual	
	Till punkt	Apr medelfel	Utj medelfel	Orienterad riktn	Kontrollerbarhet	
			MUF	YT		
Riktning	DT0138S	147,721803	-0,000253	147,721549	-0,568905	
	DT0194H	0,000283	0,000444	61,333471	?? 0,501115	
			0,001119	0,000558		
Riktning	DT0138S	142,162443	0,000108	142,162551	0,342459	
	DT0225S	0,000283	0,000336	55,774473	?? 0,468746	
			0,001157	0,000615		
Riktning	DT0138S	144,813723	-0,000000	144,813723	?	
	DT0255H	0,000283	0,000393	58,425645	!! 0,000000	
			?	?		
Riktning	DT0225S	366,752880	-0,000033	366,752847	-0,111551	
	DT0099S	0,000283	0,000237	253,247420	?? 0,609957	
			0,001014	0,000396		
Riktning	DT0225S	365,984603	0,000116	365,984718	0,361349	
	DT0120H	0,000283	0,000261	252,479292	?? 0,601721	
			0,001021	0,000407		
Riktning	DT0225S	369,279963	-0,000063	369,279899	-0,160908	
	DT0138S	0,000283	0,000241	255,774473	0,726600	
			0,000929	0,000254		
Riktning	DT0225S	370,763130	-0,000290	370,762840	-0,401111	
	DT0190V	0,000283	0,000628	257,257414	?? 0,569875	
			0,001049	0,000451		
Riktning	DT0225S	359,206495	0,000014	359,206509	0,018510	
	DT0194H	0,000283	0,000756	245,701082	?? 0,485224	
			0,001137	0,000585		
Riktning	DT0225S	172,784530	0,000069	172,784599	0,179635	
	DT0305S	0,000283	0,000296	59,279172	?? 0,626504	
			0,001001	0,000374		
Riktning	DT0225S	168,840390	-0,000033	168,840357	-0,091096	
	DT0305V	0,000283	0,000326	55,334931	?? 0,549414	
			0,001068	0,000481		
Riktning	DT0225S	366,752655	-0,000002	366,752653	-0,011052	
	DT0099S	0,000283	0,000322	253,247420	!! 0,277079	
			0,001505	0,001088		
Riktning	DT0225S	179,777908	-0,000335	179,777573	-0,468626	
	DT0225H	0,000283	0,000853	66,272340	?? 0,412211	
			0,001234	0,000725		

**Horisontell nätutjämnning, Riktningar**

Skapad:  
2008-01-08

Typ	Från punkt	Värde	Residual	Utj.riktning	Std Residual
	Till punkt	Apr medelfel	Utj medelfel	Orienterad riktn	Kontrollerbarhet
			MUF	YT	
			Från punkt	Till punkt	
		Max residual: 0,010251	BT0587S	BT0588H	
		Max std residual: 2,803010	BT0963S	BT0897S	
		Antal stationer: 50			
		Antal riktningar: 353			
Riktning	DT0225S	172,784338	0,000067	172,784405	0,199582
	DT0305S	0,000283	0,000349	59,279172	?? 0,482886
			0,001140	0,000589	
Riktning	DT0305S	223,800157	0,000216	223,800373	0,832944
	DT0138S	0,000283	0,000221	257,456460	?? 0,578773
			0,001041	0,000438	
Riktning	DT0305S	225,013275	-0,000037	225,013238	-0,118575
	DT0190V	0,000283	0,000239	258,669325	?? 0,631940
			0,000996	0,000367	
Riktning	DT0305S	221,831383	-0,000076	221,831306	-0,243746
	DT0194H	0,000283	0,000251	255,487393	?? 0,608658
			0,001015	0,000397	
Riktning	DT0305S	225,623300	-0,000214	225,623086	-0,500102
	DT0225S	0,000283	0,000227	259,279172	0,780599
			0,000896	0,000197	
Riktning	DT0305S	221,597360	-0,000099	221,597261	-0,212226
	DT0225H	0,000283	0,000498	255,253348	?? 0,465517
			0,001161	0,000620	
Riktning	DT0305S	321,203365	!! -0,001101	321,202264	-0,204790
	DT0305V	0,000283	0,003436	354,858351	?? 0,709885
			0,000940	0,000273	
Riktning	DT0305S	225,623662	0,000023	225,623686	0,082299
	DT0225S	0,000283	0,000395	259,279172	!! 0,338058
			0,001362	0,000902	
Riktning	DT0305S	321,202853	0,000012	321,202864	0,002186
	DT0305V	0,000283	0,003443	354,858351	?? 0,708817
			0,000941	0,000274	
Riktning	DT0305S	120,833340	!! -0,001757	120,831583	-1,794709
	BT0278H	0,000283	0,000967	154,487070	?? 0,506044
			0,001113	0,000550	
Riktning	DT0305S	17,569330	0,000075	17,569405	0,187677
	DT0368V	0,000283	0,000428	51,224891	?? 0,464268
			0,001162	0,000623	
Riktning	DT0305S	23,576483	-0,000212	23,576271	-0,532981
	DT0369H	0,000283	0,000426	57,231757	?? 0,465459





## Horisontell nätutjämning, Riktningar

 Skapad:  
2008-01-08

Typ	Från punkt	Värde	Residual	Utj.riktning	Std Residual
	Till punkt	Apr medelfel	Utj medelfel	Orienterad riktn	Kontrollerbarhet
			MUF	YT	
	DT0369H	0,000283	0,000213	254,267167	?? 0,583205
			0,001037	0,000432	
Riktning	DT0556S	131,000128	0,000011	131,000139	0,036850
	DT0425S	0,000283	0,000205	255,942854	?? 0,696667
			0,000949	0,000288	
Riktning	DT0556S	123,597508	-0,000171	123,597336	-0,327280
	DT0513H	0,000283	0,000571	248,540051	?? 0,456390
			0,001172	0,000637	
Riktning	DT0556S	131,947615	-0,000186	131,947429	-0,342890
	DT0513V	0,000283	0,000565	256,890144	?? 0,478819
			0,001145	0,000596	
Riktning	DT0556S	336,182553	-0,000374	336,182179	-0,878654
	DT0614S	0,000283	0,000455	61,124893	?? 0,466160
			0,001160	0,000619	
Riktning	DT0556S	330,595125	0,000335	330,595460	0,805389
	DT0615V	0,000283	0,000452	55,538175	?? 0,458485
			0,001170	0,000633	
Riktning	BT0814S	208,834110	-0,000067	208,834043	-0,290441
	BT0637V	0,000283	0,000243	258,480951	?? 0,475606
			0,001148	0,000602	
Riktning	BT0814S	206,653810	0,000089	206,653899	0,303601
	BT0685S	0,000283	0,000235	256,300808	?? 0,610070
			0,001014	0,000395	
Riktning	BT0814S	204,406165	-0,000188	204,405977	-0,453787
	BT0754H	0,000283	0,000430	254,052885	?? 0,482102
			0,001141	0,000591	
Riktning	BT0814S	213,759170	-0,000143	213,759027	-0,377937
	BT0754V	0,000283	0,000465	263,405935	?? 0,398846
			0,001254	0,000754	
Riktning	BT0814S	167,298268	!! -0,000980	167,297287	-0,371716
	BT0806H	0,000283	0,002689	216,944196	?? 0,490257
			0,001131	0,000577	
Riktning	BT0814S	307,231003	-0,000507	307,230496	-0,528516
	TT0024S	0,000283	0,000728	356,877404	?? 0,634783
			0,000994	0,000363	

### Horisontell nätutjämning, Riktningar

 Skapad:  
2008-01-08

Typ	Från punkt	Värde	Residual	Utj.riktning	Std Residual
	Till punkt		Apr medelfel	Utj medelfel	
		MUF		YT	Kontrollerbarhet
Max residual:	0,010251		Från punkt	Till punkt	
	2,803010		BT0587S	BT0588H	
Max std residual:			BT0963S	BT0897S	
Antal stationer:	50				
Antal riktningar:	353				
Riktning	BT0814S	306,212253	0,000062	306,212315	0,599780
	TT0120H	0,000283	0,000367	355,859223	!! 0,074141
			0,002909	0,002693	
Riktning	BT0814S	395,432660	0,000240	395,432900	0,427716
	BT0855V	0,000283	0,000583	45,079809	?? 0,482011
			0,001141	0,000591	
Riktning	BT0814S	6,949802	-0,000066	6,949737	-0,126572
	BT0856H	0,000283	0,000591	56,596645	?? 0,434432
			0,001202	0,000680	
Riktning	BT0814S	0,036605	0,000233	0,036838	0,644518
	BT0897S	0,000283	0,000293	49,683746	?? 0,603550
			0,001019	0,000404	
Riktning	BT0814S	398,924718	-0,000085	398,924633	-0,283262
	BT0909H	0,000283	0,000312	48,571541	?? 0,479170
			0,001144	0,000596	
Riktning	TT0024S	294,187663	-0,000239	294,187424	-0,368909
	BT0806H	0,000283	0,000773	170,256272	?? 0,411906
			0,001234	0,000726	
Riktning	TT0024S	280,807733	?? 0,000824	280,808556	0,932390
	BT0814S	0,000283	0,000818	156,877404	?? 0,538289
			0,001079	0,000498	
Riktning	TT0024S	89,082048	0,000000	89,082048	?
	TT0054H	0,000283	0,001098	365,150895	!! 0,000000
			?	?	
Riktning	TT0024S	83,811960	0,000000	83,811960	?
	TT0088H	0,000283	0,000562	359,880808	!! 0,000000
			?	?	
Riktning	TT0024S	79,504950	-0,000063	79,504887	-0,597684
	TT0120H	0,000283	0,000420	355,573735	!! 0,058323
			0,003279	0,003088	
Riktning	BT0897S	92,110523	0,000125	92,110648	0,500554
	BT0754H	0,000283	0,000254	251,484838	?? 0,492643
			0,001128	0,000572	
Riktning	BT0897S	87,474310	0,000025	87,474335	0,075893
	BT0806H	0,000283	0,000288	246,848526	?? 0,575320
			0,001044	0,000443	

**Horisontell nätutjämning, Riktningar**

 Skapad:  
2008-01-08

Typ	Från punkt	Värde	Residual	Utj.riktning	Std Residual
	Till punkt	Apr medelfel	Utj medelfel	Orienterad riktn	Kontrollerbarhet
			MUF	YT	
			Från punkt	Till punkt	
Max residual:	0,010251		BT0587S	BT0588H	
Max std residual:	2,803010		BT0963S	BT0897S	
Antal stationer:	50				
Antal riktningar:	353				
Riktning	BT0897S	90,309165	0,000391	90,309556	0,970340
	BT0814S	0,000283	0,000232	249,683746	0,750478
			0,000914	0,000228	
Riktning	BT0897S	94,656983	0,000136	94,657118	0,255864
	BT0855V	0,000283	0,000558	254,031309	?? 0,475512
			0,001148	0,000602	
Riktning	BT0897S	83,365518	0,000053	83,365570	0,101103
	BT0856H	0,000283	0,000593	242,739760	?? 0,434561
			0,001201	0,000679	
Riktning	BT0897S	194,203745	!! -0,004155	194,199590	-1,457863
	BT0900V	0,000283	0,002720	353,573781	?? 0,523225
			0,001095	0,000522	
Riktning	BT0897S	280,476280	!! -0,001190	280,475090	-0,591210
	BT0909H	0,000283	0,002088	39,849280	?? 0,481792
			0,001141	0,000591	
Riktning	BT0897S	360,930850	0,000072	360,930922	0,266258
	NBT0100S	0,000283	0,000341	120,305112	?? 0,387247
			0,001273	0,000780	
Riktning	BT0897S	277,720600	-0,000343	277,720257	-0,500229
	BT0929H	0,000283	0,000791	37,094447	?? 0,429323
			0,001209	0,000690	
Riktning	BT0897S	261,848480	!! -0,001376	261,847104	?? -2,198419
	BT0930V	0,000283	0,000761	21,221294	?? 0,403138
			0,001247	0,000744	
Riktning	BT0897S	270,344338	-0,000451	270,343886	-1,034342
	BT0963S	0,000283	0,000339	29,718076	?? 0,624232
			0,001002	0,000377	
Riktning	BT0897S	239,188937	?? -0,000708	239,188229	?? -2,148739
	BT0814S	0,000283	0,000328	249,683746	?? 0,502403
			0,001117	0,000556	
Riktning	BT0897S	343,073100	!! 0,005164	343,078264	1,819292
	BT0900V	0,000283	0,002732	353,573781	?? 0,519013
			0,001099	0,000529	
Riktning	BT0897S	102,643735	-0,000005	102,643730	-0,010418
	NBT0050V	0,000283	0,000586	113,139247	?? 0,387906

## Horisontell nätutjämnning, Riktningar

Skapad:  
2008-01-08

Typ	Från punkt	Värde	Residual	Utj.riktning	Std Residual
	Till punkt	Apr medelfel	Utj medelfel	Orienterad riktn	Kontrollerbarhet
			MUF	YT	
			0,001272	0,000778	
Max residual:	0,010251				
Max std residual:	2,803010				
			Från punkt	Till punkt	
			BT0587S	BT0588H	
			BT0963S	BT0897S	
Antal stationer:	50				
Antal riktningar:	353				
Riktning	BT0897S	113,364065	?? 0,000826	113,364891	1,795910
	NBT0051H	0,000283	0,000570	123,860408	?? 0,394289
			0,001261	0,000764	
Riktning	BT0897S	109,809970	-0,000375	109,809595	-1,284099
	NBT0100S	0,000283	0,000323	120,305112	?? 0,449110
			0,001182	0,000651	
Riktning	BT0897S	108,001367	-0,000000	108,001367	?
	NBT0138	0,000283	0,000368	118,496884	!! 0,000000
			?	?	
Riktning	BT0897S	26,431355	-0,000085	26,431270	-0,207613
	BT0962H	0,000283	0,000391	36,926787	?? 0,524857
			0,001093	0,000519	
Riktning	BT0897S	23,866158	0,000197	23,866354	0,596999
	BT0982V	0,000283	0,000334	34,361871	?? 0,492552
			0,001128	0,000573	
Riktning	BT0897S	19,221718	?? 0,000842	19,222560	1,805419
	BT0963S	0,000283	0,000296	29,718076	0,713236
			0,000938	0,000269	
Riktning	BT0963S	123,839918	!! 0,001155	123,841073	?? 2,803010
	BT0897S	0,000283	0,000368	229,718076	?? 0,557117
			0,001061	0,000470	
Riktning	BT0963S	121,863400	-0,000402	121,862998	-0,916362
	BT0909H	0,000283	0,000456	227,740001	?? 0,481595
			0,001141	0,000592	
Riktning	BT0963S	117,366753	-0,000322	117,366431	-0,522308
	BT0929H	0,000283	0,000697	223,243434	?? 0,438623
			0,001196	0,000671	
Riktning	BT0963S	132,272580	!! -0,001417	132,271163	?? -2,198419
	BT0930V	0,000283	0,000736	238,148167	?? 0,433592
			0,001203	0,000681	
Riktning	BT0963S	46,647655	-0,000150	46,647505	-0,049838
	BT0962H	0,000283	0,002752	152,524508	?? 0,546019
			0,001072	0,000487	
Riktning	BT0963S	231,387680	!! 0,001362	231,389042	1,319204

**Horisontell nätutjämnning, Riktningar**

 Skapad:  
2008-01-08

Typ	Från punkt	Värde	Residual	Utj.riktning	Std Residual
	Till punkt	Apr medelfel	Utj medelfel	Orienterad riktn	Kontrollerbarhet
			MUF	YT	
	DT0986V	0,000283	0,001060	337,266046	?? 0,487188
			0,001135	0,000582	
Riktning	BT0963S	345,372150	!! -0,001187	345,370963	-0,994817
	BT0982V	0,000283	0,001254	51,247967	?? 0,475143
			0,001149	0,000603	
Riktning	BT0963S	370,207490	-0,000185	370,207305	-0,253281
	BT0991H	0,000283	0,000970	76,084309	?? 0,361237
			0,001318	0,000842	
Riktning	BT0963S	361,247323	-0,000315	361,247008	-0,620030
	BT1008V	0,000283	0,000603	67,124011	?? 0,415191
			0,001229	0,000719	
Riktning	BT0963S	237,170995	!! 0,001170	237,172165	0,756893
	DT0988S	0,000283	0,001053	343,049169	?? 0,683176
			0,000958	0,000304	
Riktning	BT0963S	370,075345	-0,000080	370,075265	-0,237544
	BT1059S	0,000283	0,000284	75,952269	?? 0,583834
			0,001036	0,000431	
Riktning	BT0963S	370,075350	-0,000085	370,075265	-0,252423
	BT1059S	0,000283	0,000284	75,952269	?? 0,583834
			0,001036	0,000431	
Riktning	BT1059S	122,175665	0,000544	122,176209	1,694520
	BT0963S	0,000283	0,000301	275,952269	?? 0,532875
			0,001085	0,000507	
Riktning	BT1059S	127,981425	-0,000348	127,981077	-0,981764
	BT0982V	0,000283	0,000351	281,757137	?? 0,504463
			0,001115	0,000553	
Riktning	BT1059S	122,123550	-0,000095	122,123455	-0,252781
	BT0991H	0,000283	0,000402	275,899515	?? 0,464276
			0,001162	0,000623	
Riktning	BT1059S	129,520780	-0,000011	129,520769	-0,024646
	BT1008V	0,000283	0,000505	283,296829	?? 0,438955
			0,001195	0,000671	
Riktning	BT1059S	228,701337	0,000000	228,701337	?
	816	0,000283	0,003329	382,477397	!! 0,000000
			?	?	

## Horisontell nätutjämning, Riktningar

 Skapad:  
2008-01-08

Typ	Från punkt	Värde	Residual	Utj.riktning	Std Residual
	Till punkt	Apr medelfel	Utj medelfel	Orienterad riktn	Kontrollerbarhet
			MUF	YT	
Max residual:	0,010251		Från punkt	Till punkt	
Max std residual:	2,803010		BT0587S	BT0588H	
			BT0963S	BT0897S	
Antal stationer:	50				
Antal riktningar:	353				
Riktning	BT1059S	266,262500	-0,000000	266,262500	?
	817	0,000283	0,001029	20,038560	!! 0,000000
			?	?	
Riktning	BT1059S	325,942390	0,000317	325,942707	0,375048
	BT1085V	0,000283	0,000970	79,718766	?? 0,430907
			0,001206	0,000687	
Riktning	BT1059S	345,061195	?? -0,000713	345,060482	-0,885341
	BT1087H	0,000283	0,000809	98,836542	?? 0,497567
			0,001123	0,000564	
Riktning	BT1059S	333,591965	-0,000407	333,591558	-0,542285
	BT1095S	0,000283	0,000533	87,367618	?? 0,664171
			0,000972	0,000326	
Riktning	BT1059S	329,599180	-0,000127	329,599053	-0,264915
	BT1106H	0,000283	0,000547	83,375113	?? 0,433265
			0,001203	0,000682	
Riktning	BT1095S	266,679185	?? 0,000589	266,679774	1,009696
	BT1059S	0,000283	0,000712	287,367618	?? 0,401445
			0,001250	0,000748	
Riktning	BT1095S	283,594480	-0,000333	283,594147	-0,186433
	BT1085V	0,000283	0,002116	304,281992	?? 0,415508
			0,001229	0,000718	
Riktning	BT1095S	230,347625	?? 0,000571	230,348196	0,242457
	BT1087H	0,000283	0,002364	251,036040	?? 0,498008
			0,001122	0,000563	
Riktning	BT1095S	49,926970	-0,000104	49,926866	-0,051945
	BT1106H	0,000283	0,001961	70,614711	?? 0,508543
			0,001111	0,000546	
Riktning	BT1095S	22,935762	-0,000020	22,935743	-0,038975
	BT1139H	0,000283	0,000563	43,623587	?? 0,447511
			0,001184	0,000654	
Riktning	BT1095S	12,790293	-0,000127	12,790166	-0,293833
	BT1149V	0,000283	0,000470	33,478010	?? 0,457647
			0,001171	0,000635	
Riktning	BT1095S	20,888678	0,000021	20,888699	0,062235
	BT1170H	0,000283	0,000358	41,576544	?? 0,481901
			0,001141	0,000591	

Horisontell nätutjämning, Riktningar					Skapad: 2008-01-08
			Från punkt	Till punkt	
Max residual:	0,010251		BT0587S	BT0588H	
Max std residual:	2,803010		BT0963S	BT0897S	
Antal stationer:	50				
Antal riktningar:	353				
Typ	Från punkt	Värde	Residual	Utj.riktning	Std Residual
	Till punkt	Apr medelfel	Utj medelfel	Orienterad riktn	Kontrollerbarhet
			MUF	YT	
Riktning	BT1095S	17,557730	-0,000106	17,557624	-0,285240
	BT1170S	0,000283	0,000328	38,245468	?? 0,563740
			0,001055	0,000460	
Riktning	BT1170S	269,460910	0,000061	269,460971	0,186539
	BT1087H	0,000283	0,000327	239,634402	?? 0,496219
			0,001124	0,000566	
Riktning	BT1170S	268,072080	-0,000044	268,072036	-0,111750
	BT1095S	0,000283	0,000307	238,245468	?? 0,618588
			0,001007	0,000384	
Riktning	BT1170S	262,865240	0,000283	262,865523	0,712025
	BT1106H	0,000283	0,000374	233,038955	?? 0,530011
			0,001088	0,000511	
Riktning	BT1170S	260,707935	-0,000335	260,707600	-0,516123
	BT1139H	0,000283	0,000764	230,881032	?? 0,419297
			0,001223	0,000710	
Riktning	BT1170S	279,657123	-0,000211	279,656912	-0,240445
	BT1149V	0,000283	0,001110	249,830344	?? 0,383745
			0,001278	0,000788	
Riktning	BT1170S	171,292878	!! -0,005267	171,287610	-0,945832
	BT1170H	0,000283	0,005469	141,461042	?? 0,509016
			0,001110	0,000545	
Riktning	BT1170S	342,088555	!! -0,001402	342,087153	-1,361469
	ST0081S	0,000283	0,000798	312,260585	?? 0,624523
			0,001002	0,000376	
Riktning	BT1170S	338,266305	?? 0,000633	338,266938	0,634554
	ST0084H	0,000283	0,001082	308,440370	?? 0,459488
			0,001168	0,000631	
Riktning	1001	321,758740	-0,000050	321,758690	-0,194328
	SW1003	0,000283	0,000231	209,822877	?? 0,554720
			0,001063	0,000473	
Riktning	1001	390,438703	0,000105	390,438808	0,509453
	SW1006	0,000283	0,000240	278,502995	?? 0,427045
			0,001212	0,000694	
Riktning	1001	321,566095	-0,000124	321,565971	-0,353943
	SW1007	0,000283	0,000271	209,630158	?? 0,625731

**Horisontell nätutjämning, Riktningar**

 Skapad:  
2008-01-08

		Från punkt	Till punkt		
Max residual:	0,010251	BT0587S	BT0588H		
Max std residual:	2,803010	BT0963S	BT0897S		
Antal stationer:	50				
Antal riktningar:	353				
Typ	Från punkt	Värde	Residual	Utj.riktning	Std Residual
	Till punkt	Apr medelfel	Utj medelfel	Orienterad riktn	Kontrollerbarhet
			MUF	YT	
			0,001001	0,000375	
Riktning	SW1007	218,839760	0,000136	218,839896	0,353872
	SW1003	0,000283	0,000400	210,092186	?? 0,478024
			0,001145	0,000598	
Riktning	SW1007	314,775122	0,000001	314,775123	0,002922
	SW1006	0,000283	0,000264	306,027414	!! 0,342918
			0,001352	0,000889	
Riktning	SW1007	18,377955	-0,000088	18,377867	-0,305263
	1001	0,000283	0,000337	9,630158	?? 0,420672
			0,001221	0,000707	
Riktning	SW1006	302,298338	-0,000295	302,298042	-1,282086
	SW1001	0,000283	0,000228	171,957301	?? 0,504981
			0,001114	0,000552	
Riktning	SW1006	236,368140	0,000015	236,368155	0,057731
	SW1007	0,000283	0,000205	106,027414	?? 0,605298
			0,001018	0,000402	
Riktning	SW1006	208,843468	0,000268	208,843736	1,136431
	1001	0,000283	0,000211	78,502995	?? 0,555678
			0,001062	0,000472	
Riktning	SW1001	365,102263	-0,000186	365,102076	-0,514922
	700	0,000283	0,000234	70,367958	?? 0,704370
			0,000944	0,000279	
Riktning	SW1001	359,799913	-0,000235	359,799677	-0,696535
	SW1000	0,000283	0,000228	65,065559	?? 0,687258
			0,000955	0,000299	
Riktning	SW1001	345,504785	0,000137	345,504922	0,464629
	SW1003	0,000283	0,000212	50,770804	?? 0,660682
			0,000974	0,000331	
Riktning	SW1001	266,691275	0,000145	266,691420	0,704358
	SW1006	0,000283	0,000250	371,957301	?? 0,404469
			0,001245	0,000742	
Riktning	SW1003	146,022958	?? -0,000645	146,022313	-1,184809
	700	0,000283	0,000353	214,135759	?? 0,704228
			0,000944	0,000279	
Riktning	SW1003	142,711808	?? 0,000640	142,712447	0,914889



## Horisontell nätutjämning, Riktningar

 Skapad:  
2008-01-08

Typ	Från punkt	Värde	Residual	Utj.riktning	Std Residual
	Till punkt	Apr medelfel	Utj medelfel	Orienterad riktn	Kontrollerbarhet
			MUF	YT	
	SW1000	0,000283	0,000435	210,825893	0,720602
			0,000933	0,000261	
Riktning	SW1003	182,657300	0,000057	182,657357	0,233825
	SW1001	0,000283	0,000268	250,770804	?? 0,456774
			0,001172	0,000637	
Riktning	SW1003	341,978990	-0,000250	341,978740	-0,587479
	SW1007	0,000283	0,000355	10,092186	?? 0,590191
			0,001031	0,000422	
Riktning	SW1003	341,709315	0,000116	341,709431	0,520281
	1001	0,000283	0,000264	9,822877	?? 0,415099
			0,001229	0,000719	
Riktning	700	311,021085	?? 0,000676	311,021761	1,699799
	BT0000H	0,000283	0,000335	388,271022	?? 0,584401
			0,001036	0,000431	
Riktning	700	308,962558	-0,000230	308,962327	-0,679135
	BT0018H	0,000283	0,000291	386,211589	?? 0,575923
			0,001044	0,000443	
Riktning	700	193,119008	-0,000311	193,118696	-1,052592
	SW1001	0,000283	0,000313	270,367958	?? 0,471463
			0,001153	0,000610	
Riktning	700	346,934565	0,000273	346,934838	0,126461
	SW1000	0,000283	0,000949	24,184099	0,837832
			0,000865	0,000140	
Riktning	700	344,776973	!! -0,001925	344,775047	-1,590452
	SW1002	0,000283	0,001077	22,024309	?? 0,558289
			0,001060	0,000468	
Riktning	700	336,886275	0,000222	336,886497	0,429516
	SW1003	0,000283	0,000390	14,135759	?? 0,637716
			0,000992	0,000359	
Riktning	700	293,234883	0,000354	293,235236	0,826075
	DT0000V	0,000283	0,000296	370,484498	?? 0,676778
			0,000963	0,000311	
Riktning	700	294,764087	-0,000070	294,764017	-0,224572
	DT0038V	0,000283	0,000254	372,013279	?? 0,603669
			0,001019	0,000404	

## Horisontell nätutjämning, Riktningar

 Skapad:  
2008-01-08

Typ	Från punkt Till punkt	Värde Apr medelfel	Residual Utj medelfel MUF	Utj.riktning Orienterad riktn YT	Std Residual Kontrollerbarhet
Max residual:	0,010251		Från punkt BT0587S	Till punkt BT0588H	
Max std residual:	2,803010		BT0963S	BT0897S	
Antal stationer:	50				
Antal riktningar:	353				
Riktning	700 DT0015S	293,422713 0,000283	-0,000367 0,000228 0,000912	293,422345 370,671607 0,000224	-0,920149 0,754501
Riktning	700 DT0001H	297,913113 0,000283	0,000358 0,000326 0,001024	297,913471 375,162732 0,000411	0,900826 ?? 0,598388
Riktning	700 SW1001	193,118773 0,000283	0,000002 0,000368 0,001527	193,118774 270,367958 0,001116	0,008880 !! 0,269149
Riktning	700 SW1004	316,898100 0,000283	0,000178 0,000470 0,001270	316,898278 394,147462 0,000776	0,475007 ?? 0,389103
Riktning	700 SW1005	288,603773 0,000283	-0,000197 0,000487 0,001261	288,603575 365,852759 0,000764	-0,501413 ?? 0,394146
Riktning	DT0015S 700	267,598717 0,000283	0,000158 0,000330 0,001136	267,598876 170,671607 0,000584	0,493981 ?? 0,485665
Riktning	DT0015S SW1000	259,446825 0,000283	-0,000187 0,000333 0,001080	259,446638 162,519369 0,000499	-0,519322 ?? 0,537889
Riktning	DT0015S DT0000V	268,503785 0,000283	0,000398 0,001346 0,001020	268,504183 171,576914 0,000405	0,239968 ?? 0,602753
Riktning	DT0015S DT0001H	244,589265 0,000283	?? 0,000783 0,001506 0,001099	244,590048 147,662779 0,000529	0,500274 ?? 0,519079
Riktning	DT0015S DT0038V	74,012600 0,000283	!! 0,001532 0,000899 0,001034	74,014132 377,086863 0,000428	1,430436 ?? 0,586559
Riktning	DT0015S DT0043H	90,576873 0,000283	-0,000218 0,000864 0,001216	90,576655 393,649385 0,000701	-0,294012 ?? 0,423934
Riktning	DT0015S DT0078V	90,024573 0,000283	-0,000252 0,000439 0,001215	90,024320 393,097051 0,000699	-0,668532 ?? 0,424637





## Horisontell nätutjämning, Riktningar

 Skapad:  
2008-01-08

Typ	Från punkt	Värde	Residual	Utj.riktning	Std Residual
	Till punkt	Apr medelfel	Utj medelfel	Orienterad riktn	Kontrollerbarhet
			MUF	YT	
	BT0099V	0,000283	0,001403	34,289452	?? 0,449218
			0,001182	0,000651	
Riktning	BT0082S	119,605443	-0,000033	119,605410	-0,055644
	BT0117H	0,000283	0,000769	60,571896	?? 0,366370
			0,001308	0,000829	
Riktning	BT0082S	112,233520	0,000364	112,233884	1,024268
	BT0180S	0,000283	0,000248	53,200370	?? 0,672706
			0,000966	0,000316	
Riktning	BT0082S	111,809625	-0,000191	111,809434	-0,672878
	BT0202V	0,000283	0,000266	52,775919	?? 0,534354
			0,001083	0,000504	
Riktning	BT0082S	116,223593	0,000001	116,223594	0,004133
	BT0212H	0,000283	0,000261	57,190079	?? 0,515871
			0,001103	0,000534	
Riktning	BT0180S	324,566500	-0,000093	324,566407	-0,301557
	BT0082S	0,000283	0,000304	253,200370	?? 0,508510
			0,001111	0,000546	
Riktning	BT0180S	328,490738	0,000020	328,490757	0,060097
	BT0099V	0,000283	0,000354	257,124720	?? 0,466366
			0,001160	0,000619	
Riktning	BT0180S	320,539668	-0,000071	320,539596	-0,185602
	BT0117H	0,000283	0,000434	249,173559	?? 0,439605
			0,001194	0,000669	
Riktning	BT0180S	122,264347	0,000520	122,264867	0,533983
	BT0202V	0,000283	0,001112	50,898830	?? 0,433556
			0,001203	0,000681	
Riktning	BT0180S	140,352983	0,000251	140,353234	0,372372
	BT0212H	0,000283	0,000746	68,987196	?? 0,449658
			0,001181	0,000650	
Riktning	BT0180S	131,611623	-0,000166	131,611456	-0,493744
	BT0278H	0,000283	0,000263	60,245419	?? 0,619864
			0,001006	0,000382	
Riktning	BT0180S	128,064295	0,000155	128,064450	0,416450
	BT0278S	0,000283	0,000212	56,698413	0,754695
			0,000912	0,000224	



## Horisontell nätutjämnning, Riktningar

 Skapad:  
2008-01-08

		Från punkt	Till punkt		
Max residual:	0,010251	BT0587S	BT0588H		
Max std residual:	2,803010	BT0963S	BT0897S		
Antal stationer:		50			
Antal riktningar:		353			
Typ	Från punkt	Värde	Residual	Utj.riktning	Std Residual
	Till punkt	Apr medelfel	Utj medelfel	Orienterad riktn	Kontrollerbarhet
			MUF	YT	
Riktning	BT0401S	261,086493	-0,000071	261,086421	-0,242521
	BT0278S	0,000283	0,000249	258,067724	?? 0,581573
			0,001038	0,000435	
Riktning	BT0401S	258,201605	0,000208	258,201813	0,740746
	BT0278H	0,000283	0,000263	255,183116	?? 0,534247
			0,001084	0,000505	
Riktning	BT0401S	256,618615	-0,000140	256,618475	-0,308480
	BT0344H	0,000283	0,000442	253,599778	?? 0,512899
			0,001106	0,000539	
Riktning	BT0401S	266,335695	0,000077	266,335772	0,167242
	BT0345V	0,000283	0,000450	263,317075	?? 0,510551
			0,001108	0,000542	
Riktning	BT0401S	61,505348	-0,000042	61,505306	-0,088206
	BT0452H	0,000283	0,000469	58,486608	?? 0,507422
			0,001112	0,000548	
Riktning	BT0401S	52,384140	-0,000023	52,384117	-0,057398
	BT0461V	0,000283	0,000428	49,365419	?? 0,475935
			0,001148	0,000602	
Riktning	BT0401S	59,196433	-0,000110	59,196323	-0,374622
	BT0500S	0,000283	0,000310	56,177626	?? 0,471023
			0,001154	0,000610	
Riktning	BT0500S	126,506077	0,000016	126,506094	0,062756
	BT0344H	0,000283	0,000236	255,247997	?? 0,543199
			0,001075	0,000491	
Riktning	BT0500S	129,980218	-0,000043	129,980174	-0,167360
	BT0345V	0,000283	0,000236	258,722078	?? 0,545284
			0,001072	0,000488	
Riktning	BT0500S	127,435678	0,000044	127,435722	0,122874
	BT0401S	0,000283	0,000227	256,177626	0,716062
			0,000936	0,000266	
Riktning	BT0500S	124,851865	0,000032	124,851897	0,062204
	BT0452H	0,000283	0,000517	253,593801	?? 0,502949
			0,001117	0,000555	
Riktning	BT0500S	138,119495	-0,000187	138,119308	-0,322013
	BT0461V	0,000283	0,000633	266,861211	?? 0,458040

## Horisontell nätutjämning, Riktningar

Skapad:  
2008-01-08

		Från punkt	Till punkt		
Max residual:	0,010251	BT0587S	BT0588H		
Max std residual:	2,803010	BT0963S	BT0897S		
Antal stationer:	50				
Antal riktningar:	353				
Typ	Från punkt	Värde	Residual	Utj.riktning	Std Residual
	Till punkt	Apr medelfel	Utj medelfel	Orienterad riktn	Kontrollerbarhet
			MUF	YT	
			0,001170	0,000634	
Riktning	BT0500S	320,574633	-0,000150	320,574483	-0,385800
	BT0561V	0,000283	0,000448	49,316387	?? 0,428096
			0,001210	0,000692	
Riktning	BT0500S	324,321990	-0,000012	324,321978	-0,034451
	BT0587S	0,000283	0,000307	53,063882	?? 0,568618
			0,001050	0,000453	
Riktning	BT0500S	328,907698	0,000141	328,907838	0,423818
	BT0588H	0,000283	0,000325	57,649742	?? 0,511263
			0,001108	0,000541	
Riktning	BT0587S	157,411953	0,000057	157,412009	0,213584
	BT0452H	0,000283	0,000259	253,251739	?? 0,512439
			0,001106	0,000539	
Riktning	BT0587S	161,547283	0,000066	161,547348	0,238247
	BT0461V	0,000283	0,000263	257,387078	?? 0,525477
			0,001093	0,000518	
Riktning	BT0587S	157,224310	-0,000158	157,224152	-0,407886
	BT0500S	0,000283	0,000260	253,063882	?? 0,690608
			0,000953	0,000295	
Riktning	BT0587S	166,458938	-0,000304	166,458633	-0,385800
	BT0561V	0,000283	0,001047	262,298363	?? 0,361726
			0,001317	0,000840	
Riktning	BT0587S	53,092895	!! 0,010251	53,103146	?? 2,548035
	BT0588H	0,000283	0,003177	148,942876	?? 0,615980
			0,001009	0,000388	
Riktning	BT0587S	260,629355	!! -0,001524	260,627831	-0,953306
	DT0614S	0,000283	0,000871	356,467561	0,771063
			0,000902	0,000206	
Riktning	BT0587S	264,077110	!! -0,001109	264,076001	-1,022335
	DT0615V	0,000283	0,000926	359,915731	?? 0,578530
			0,001041	0,000439	
Riktning	BT0587S	368,139970	-0,000053	368,139917	-0,118300
	BT0635H	0,000283	0,000538	63,979647	?? 0,408516
			0,001239	0,000733	
Riktning	BT0587S	357,751320	-0,000133	357,751187	-0,294974



## Horisontell nätutjämning, Riktningar

 Skapad:  
2008-01-08

Typ	Från punkt	Värde	Residual	Utj.riktning	Std Residual
	Till punkt	Apr medelfel	Utj medelfel	Orienterad riktn	Kontrollerbarhet
			MUF	YT	
	BT0637V	0,000283	0,000510	53,590917	?? 0,437423
			0,001197	0,000674	
Riktning	BT0587S	362,912235	0,000190	362,912425	0,806199
	BT0685S	0,000283	0,000354	58,752155	!! 0,305645
			0,001432	0,000995	
Riktning	BT0685S	241,823250	-0,000092	241,823158	-0,294775
	BT0587S	0,000283	0,000289	258,752155	?? 0,537966
			0,001080	0,000499	
Riktning	BT0685S	237,882975	0,000067	237,883042	0,220929
	BT0588H	0,000283	0,000301	254,812038	?? 0,501906
			0,001118	0,000557	
Riktning	BT0685S	236,700138	0,000015	236,700152	0,033536
	BT0635H	0,000283	0,000528	253,629149	?? 0,411794
			0,001234	0,000726	
Riktning	BT0685S	247,249768	-0,000144	247,249623	-0,299428
	BT0637V	0,000283	0,000519	264,178620	?? 0,462601
			0,001164	0,000626	
Riktning	BT0685S	41,385865	-0,000086	41,385779	-0,228965
	BT0754H	0,000283	0,000402	58,314776	?? 0,464680
			0,001162	0,000622	
Riktning	BT0685S	33,109488	-0,000015	33,109473	-0,041472
	BT0754V	0,000283	0,000414	50,038469	?? 0,424082
			0,001216	0,000700	
Riktning	BT0685S	39,371690	0,000121	39,371811	0,407409
	BT0814S	0,000283	0,000231	56,300808	?? 0,622955
			0,001003	0,000378	
Riktning	BT0685S	36,604505	-0,000014	36,604491	-0,058488
	BT0855V	0,000283	0,000239	53,533487	?? 0,504780
			0,001115	0,000552	
Riktning	DT0614S	267,244920	0,000087	267,245007	0,300842
	DT0513V	0,000283	0,000311	259,294153	?? 0,462541
			0,001164	0,000626	
Riktning	DT0614S	263,603153	0,000012	263,603165	0,041856
	DT0513H	0,000283	0,000311	255,652311	?? 0,460688
			0,001167	0,000629	







**Horisontell nätutjämning, Riktningar**

 Skapad:  
2008-01-08

Typ	Från punkt	Värde	Residual	Utj.riktning	Std Residual
	Till punkt	Apr medelfel	Utj medelfel	Orienterad riktn	Kontrollerbarhet
			MUF	YT	
	CT0000S	0,000283	0,000276	34,145315	?? 0,692006
			0,000952	0,000293	
Riktning	DT0988S	166,545910	0,000050	166,545960	0,149282
	CT0015V	0,000283	0,000298	31,166653	?? 0,557944
			0,001060	0,000469	
Riktning	DT0988S	170,035563	0,000018	170,035581	0,077043
	CT0090S	0,000283	0,000244	34,656273	?? 0,479351
			0,001144	0,000596	
Riktning	CT0000S	373,704220	0,000190	373,704410	0,811660
	DT0902H	0,000283	0,000250	234,952187	?? 0,468164
			0,001157	0,000616	
Riktning	CT0000S	373,785288	-0,000322	373,784966	-1,123481
	DT0939S	0,000283	0,000247	235,032743	?? 0,572690
			0,001047	0,000447	
Riktning	CT0000S	376,783250	0,000000	376,783250	?
	BT0986V	0,000283	0,000490	238,031027	!! 0,000000
			?	?	
Riktning	CT0000S	372,897703	0,000000	372,897703	?
	BT0988S	0,000283	0,000497	234,145479	!! 0,000000
			?	?	
Riktning	CT0000S	153,186715	?? 0,000734	153,187449	0,463716
	CT0015V	0,000283	0,001648	14,435226	?? 0,480072
			0,001143	0,000594	
Riktning	CT0000S	205,201730	0,000055	205,201785	0,044090
	CT0015H	0,000283	0,001730	66,449562	!! 0,343148
			0,001352	0,000888	
Riktning	CT0000S	171,134625	0,000170	171,134795	0,389682
	CT0055V	0,000283	0,000481	32,382572	?? 0,450730
			0,001180	0,000648	
Riktning	CT0000S	179,359430	0,000241	179,359671	0,602378
	CT0061H	0,000283	0,000435	40,607448	?? 0,458017
			0,001170	0,000634	
Riktning	CT0000S	173,837015	-0,000122	173,836893	-0,360875
	CT0090S	0,000283	0,000287	35,084670	?? 0,580959
			0,001039	0,000435	





Horisontell nätutjämnning, Riktningar					Skapad: 2008-01-08
			Från punkt	Till punkt	
Max residual:	0,010251		BT0587S	BT0588H	
Max std residual:	2,803010		BT0963S	BT0897S	
Antal stationer:	50				
Antal riktningar:	353				
Typ	Från punkt	Värde	Residual	Utj.riktning	Std Residual
	Till punkt	Apr medelfel	Utj medelfel	Orienterad riktn	Kontrollerbarhet
			MUF	YT	
			0,001188	0,000660	



Horisontell nätutjämnning, längder					Skapad: 2008-01-08
			Från punkt	Till punkt	
Max residual:	-0,001903		DT0305S	DT0513V	
Max std residual:	2,828370		CT0090S	CT0055V	
Antal längder:		337			
Från punkt	Värde	Residual	Utj värde	Std Residual	
Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet	
		MUF	YT		
NBT0100S	96,061379	-0,000423	96,060956	-0,691248	
BT0897S	0,000488	0,000336		0,768778	
		0,001559	0,000360		
NBT0100S	50,793988	!! 0,001088	50,795076	?? 2,713340	
NBT0050V	0,000352	0,000461		?? 0,430532	
		0,001504	0,000856		
NBT0100S	49,128015	?? -0,000724	49,127290	-1,824362	
NBT0051H	0,000347	0,000461		?? 0,425966	
		0,001490	0,000855		
NBT0100S	39,296465	?? 0,000780	39,297245	1,952799	
NBT0138H	0,000318	0,000437		?? 0,455792	
		0,001318	0,000717		
NBT0100S	48,734260	-0,000633	48,733627	-1,259792	
NBT0150S	0,000346	0,000341		?? 0,684230	
		0,001172	0,000370		
NBT0100S	51,450699	-0,000159	51,450539	-0,368515	
NBT0150H	0,000354	0,000433		?? 0,499003	
		0,001405	0,000704		
NBT0150S	48,733760	-0,000133	48,733627	-0,264497	
NBT0100S	0,000346	0,000341		?? 0,684229	
		0,001172	0,000370		
NBT0150S	13,354119	?? 0,000680	13,354798	1,935969	
NBT0138H	0,000240	0,000429		?? 0,401521	
		0,001061	0,000635		
NBT0150S	4,031739	?? 0,000461	4,032200	1,292036	
NBT0150H	0,000212	0,000409		?? 0,432712	
		0,000903	0,000512		
NBT0150S	65,980051	0,000208	65,980258	0,571028	
NBT0213V	0,000398	0,000524		!! 0,325050	
		0,001954	0,001319		
NBT0150S	165,115819	0,000665	165,116484	1,038835	
NBT0312H	0,000695	0,000568		?? 0,559913	
		0,002602	0,001145		
NBT0150S	197,629790	-0,000927	197,628863	-1,122661	
NBT0345S	0,000793	0,000441		0,778177	
		0,002517	0,000558		

Horisontell nätutjämnning, längder					Skapad: 2008-01-08
Max residual:		-0,001903	Från punkt	Till punkt	
Max std residual:		2,828370	DT0305S	DT0513V	
			CT0090S	CT0055V	
Antal längder:		337			
Från punkt	Värde	Residual	Utj värde	Std Residual	
Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet	
		MUF	YT		
NBT0345S	197,629256	-0,000393	197,628863	-0,475755	
NBT0150S	0,000793	0,000441		0,778176	
		0,002517	0,000558		
NBT0345S	200,226641	0,000126	200,226766	0,161541	
NBT0150H	0,000801	0,000533		?? 0,680087	
		0,002719	0,000870		
NBT0345S	131,916268	0,000276	131,916544	0,511866	
NBT0213V	0,000596	0,000559		?? 0,482215	
		0,002402	0,001244		
NBT0345S	96,923550	-0,000027	96,923524	-0,953367	
NBT0246H	0,000491	0,000699		!! 0,001608	
		0,034263	0,034208		
NBT0345S	32,590423	0,000313	32,590736	1,059800	
NBT0312H	0,000298	0,000501		!! 0,258067	
		0,001641	0,001218		
NBT0345S	59,724131	-0,000463	59,723668	-1,126969	
NBT0405V	0,000379	0,000473		?? 0,429803	
		0,001619	0,000923		
NBT0345S	77,085845	-0,000440	77,085405	-1,002457	
NBT0420H	0,000431	0,000493		?? 0,442250	
		0,001816	0,001013		
NBT0396S	50,849799	0,000544	50,850342	1,198274	
NBT0345S	0,000353	0,000410		?? 0,550855	
		0,001330	0,000597		
NBT0396S	40,485199	0,000318	40,485517	1,052833	
NBT0360H	0,000321	0,000511		!! 0,258950	
		0,001769	0,001311		
NBT0396S	8,905201	0,000362	8,905563	1,147570	
NBT0405V	0,000227	0,000449		!! 0,331070	
		0,001103	0,000738		
NBT0396S	26,867948	0,000330	26,868278	1,004218	
NBT0420H	0,000281	0,000469		!! 0,329809	
		0,001368	0,000917		
DT0047S	47,453764	0,000010	47,453774	0,020974	
DT0000V	0,000342	0,000366		?? 0,634659	
		0,001203	0,000440		

Horisontell nätutjämnning, längder					Skapad: 2008-01-08
Max residual:		-0,001903	Från punkt	Till punkt	
Max std residual:		2,828370	DT0305S	DT0513V	
			CT0090S	CT0055V	
Antal längder:		337			
Från punkt	Värde	Residual	Utj värde	Std Residual	
Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet	
		MUF	YT		
DT0047S	45,872357	0,000397	45,872755	0,858500	
DT0001H	0,000338	0,000386		?? 0,589742	
		0,001231	0,000505		
DT0047S	32,564888	?? 0,000693	32,565581	1,331061	
DT0015S	0,000298	0,000258		0,802571	
		0,000930	0,000184		
DT0047S	9,580386	-0,000140	9,580246	-0,323552	
DT0038V	0,000229	0,000339		?? 0,618568	
		0,000814	0,000311		
DT0047S	6,743553	0,000314	6,743866	0,850376	
DT0043H	0,000220	0,000402		?? 0,456411	
		0,000913	0,000496		
DT0047S	28,173902	?? -0,000664	28,173238	-1,741039	
DT0076H	0,000285	0,000430		?? 0,440920	
		0,001200	0,000671		
DT0047S	31,420878	0,000464	31,421341	1,002334	
DT0078V	0,000294	0,000349		?? 0,637182	
		0,001032	0,000374		
DT0047S	51,400239	0,000376	51,400615	0,699552	
DT0099S	0,000354	0,000293		0,771634	
		0,001129	0,000258		
DT0099S	60,608075	-0,000357	60,607718	-0,710917	
DT0038V	0,000382	0,000379		?? 0,637028	
		0,001339	0,000486		
DT0099S	51,399665	?? 0,000950	51,400615	1,766223	
DT0047S	0,000354	0,000293		0,771633	
		0,001129	0,000258		
DT0099S	23,317540	?? -0,000635	23,316905	-1,705078	
DT0076H	0,000270	0,000429		?? 0,430149	
		0,001152	0,000657		
DT0099S	20,694345	0,000302	20,694648	0,675657	
DT0078V	0,000262	0,000343		?? 0,629593	
		0,000925	0,000343		
DT0099S	20,825388	!! 0,000938	20,826326	?? 2,239036	
DT0120H	0,000262	0,000378		?? 0,551306	
		0,000990	0,000444		

Horisontell nätutjämnning, längder					Skapad: 2008-01-08
Max residual:		-0,001903	Från punkt	Till punkt	
Max std residual:		2,828370	DT0305S	DT0513V	
			CT0090S	CT0055V	
Antal längder:		337			
Från punkt	Värde	Residual	Utj värde	Std Residual	
Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet	
		MUF	YT		
DT0099S	22,070771	0,000000	22,070771	?	
DT00121V	0,000266	0,000566		!! 0,000000	
		?	?		
DT0099S	38,906557	0,000035	38,906593	0,067448	
DT0138S	0,000317	0,000272		0,787744	
		0,000999	0,000212		
DT0099S	91,284057	-0,000113	91,283944	-0,195823	
DT0190V	0,000474	0,000377		?? 0,699259	
		0,001587	0,000477		
DT0099S	125,991471	-0,000397	125,991074	-0,560535	
DT0225S	0,000578	0,000286		0,859502	
		0,001746	0,000245		
DT0138S	58,845549	-0,000459	58,845089	-0,928115	
DT0078V	0,000377	0,000382		?? 0,626010	
		0,001333	0,000498		
DT0138S	38,906164	0,000429	38,906593	0,816910	
DT0099S	0,000317	0,000272		0,787744	
		0,000999	0,000212		
DT0138S	18,576804	!! 0,000936	18,577740	?? 2,247403	
DT0120H	0,000256	0,000376		?? 0,550847	
		0,000965	0,000433		
DT0138S	17,225026	0,000000	17,225026	?	
DT0121V	0,000252	0,000559		!! 0,000000	
		?	?		
DT0138S	52,520327	?? 0,000769	52,521096	1,560809	
DT0190V	0,000358	0,000367		?? 0,643197	
		0,001248	0,000445		
DT0138S	56,592199	?? 0,000832	56,593031	1,770702	
DT0194H	0,000370	0,000406		?? 0,572127	
		0,001369	0,000586		
DT0138S	87,307324	0,000515	87,307838	0,828095	
DT0225S	0,000462	0,000276		0,835378	
		0,001415	0,000233		
DT0138S	116,572118	0,000000	116,572118	?	
DT0255H	0,000550	0,000742		!! 0,000000	
		?	?		

Horisontell nätutjämnning, längder					Skapad: 2008-01-08
Max residual:		-0,001903	Från punkt	Till punkt	
Max std residual:		2,828370	DT0305S	DT0513V	
			CT0090S	CT0055V	
Antal längder:		337			
Från punkt	Värde	Residual	Utj värde	Std Residual	
Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet	
		MUF	YT		
DT0225S	125,991513	-0,000439	125,991074	-0,620158	
DT0099S	0,000578	0,000286		0,859502	
		0,001746	0,000245		
DT0225S	105,211066	0,000063	105,211129	0,105166	
DT0120H	0,000516	0,000395		?? 0,697227	
		0,001729	0,000524		
DT0225S	87,308303	-0,000465	87,307838	-0,748350	
DT0138S	0,000462	0,000276		0,835379	
		0,001415	0,000233		
DT0225S	34,801867	0,000573	34,802440	1,230357	
DT0190V	0,000304	0,000354		?? 0,633978	
		0,001070	0,000392		
DT0225S	31,321119	?? 0,000600	31,321719	1,391310	
DT0194H	0,000294	0,000387		?? 0,553494	
		0,001106	0,000494		
DT0225S	80,568274	0,000457	80,568731	0,738158	
DT0305S	0,000442	0,000246		0,864055	
		0,001331	0,000181		
DT0225S	80,378210	!! -0,001408	80,376802	?? -2,441363	
DT0305V	0,000441	0,000334		0,749346	
		0,001427	0,000358		
DT0225S	125,991739	-0,000665	125,991074	-0,938929	
DT0099S	0,000578	0,000286		0,859502	
		0,001746	0,000245		
DT0225S	29,563226	?? 0,000599	29,563825	1,580346	
DT0225H	0,000289	0,000435		?? 0,431521	
		0,001231	0,000700		
DT0225S	80,568336	0,000395	80,568731	0,637159	
DT0305S	0,000442	0,000246		0,864055	
		0,001331	0,000181		
DT0305S	167,813958	-0,000879	167,813078	-1,102781	
DT0138S	0,000703	0,000328		0,855299	
		0,002130	0,000308		
DT0305S	115,358875	0,000041	115,358915	0,064537	
DT0190V	0,000546	0,000386		0,727515	
		0,001793	0,000488		

Horisontell nätutjämnning, längder					Skapad: 2008-01-08
Max residual:		-0,001903	Från punkt	DT0305S	Till punkt
Max std residual:		2,828370	CT0090S	DT0513V	CT0055V
Antal längder:		337			
Från punkt	Värde	Residual	Utj värde	Std Residual	
Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet	
		MUF	YT		
DT0305S	111,377995	0,000237	111,378233	0,392530	
DT0194H	0,000534	0,000412		??	0,682549
		0,001810	0,000575		
DT0305S	80,568582	0,000149	80,568731	0,240505	
DT0225S	0,000442	0,000246		0,864055	
		0,001331	0,000181		
DT0305S	51,284905	0,000702	51,285607	1,645270	
DT0225H	0,000354	0,000439		??	0,485464
		0,001422	0,000732		
DT0305S	4,988522	0,000142	4,988664	0,307852	
DT0305V	0,000215	0,000290		0,715113	
		0,000712	0,000203		
DT0305S	80,568657	0,000074	80,568731	0,119064	
DT0225S	0,000442	0,000246		0,864055	
		0,001331	0,000181		
DT0305S	4,988497	0,000166	4,988664	0,361653	
DT0305V	0,000215	0,000290		0,715113	
		0,000712	0,000203		
DT0305S	23,610118	0,000044	23,610163	0,111291	
BT0278H	0,000271	0,000405		??	0,491108
		0,001082	0,000551		
DT0305S	62,053627	0,000724	62,054351	1,600937	
DT0368V	0,000386	0,000440		??	0,513594
		0,001509	0,000734		
DT0305S	62,408919	?? 0,000944	62,409863	??	2,081558
DT0369H	0,000387	0,000440		??	0,515193
		0,001511	0,000732		
DT0305S	119,835621	?? -0,001323	119,834299	-1,950052	
DT0425S	0,000560	0,000319		0,818853	
		0,001731	0,000314		
DT0305S	206,800472	?? -0,001903	206,798569	??	-2,244036
DT0513V	0,000820	0,000449		0,780707	
		0,002600	0,000570		
DT0425S	119,834133	0,000165	119,834299	0,243509	
DT0305S	0,000560	0,000319		0,818852	
		0,001731	0,000314		

Horisontell nätutjämnning, längder					Skapad: 2008-01-08
Max residual:		-0,001903	Från punkt	Till punkt	
Max std residual:		2,828370	DT0305S	DT0513V	
			CT0090S	CT0055V	
Antal längder:		337			
Från punkt	Värde	Residual	Utj värde	Std Residual	
Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet	
		MUF	YT		
DT0425S	119,869766	-0,000066	119,869700	-0,102705	
DT0305V	0,000560	0,000379		0,745115	
		0,001815	0,000463		
DT0425S	57,900206	0,000560	57,900765	1,234707	
DT0368V	0,000374	0,000428		?? 0,528210	
		0,001440	0,000679		
DT0425S	57,592826	0,000694	57,593520	1,534072	
DT0369H	0,000373	0,000428		?? 0,527788	
		0,001437	0,000678		
DT0425S	86,978711	-0,000766	86,977945	-1,406980	
DT0513V	0,000461	0,000406		?? 0,642151	
		0,001611	0,000576		
DT0425S	86,931468	?? 0,001027	86,932495	1,965714	
DT0513H	0,000461	0,000434		?? 0,591160	
		0,001678	0,000686		
DT0425S	130,564815	0,000376	130,565191	0,536654	
DT0556S	0,000592	0,000327		0,821654	
		0,001828	0,000326		
DT0425S	188,888848	0,000005	188,888853	0,006238	
DT0615V	0,000767	0,000415		0,793821	
		0,002409	0,000497		
DT0556S	188,460680	0,000323	188,461003	0,414610	
DT0368V	0,000765	0,000477		0,726695	
		0,002514	0,000687		
DT0556S	188,010367	0,000514	188,010881	0,660645	
DT0369H	0,000764	0,000477		0,726535	
		0,002510	0,000686		
DT0556S	130,565308	-0,000117	130,565191	-0,166510	
DT0425S	0,000592	0,000327		0,821655	
		0,001828	0,000326		
DT0556S	44,080319	0,000637	44,080956	1,467697	
DT0513H	0,000332	0,000414		?? 0,524075	
		0,001285	0,000612		
DT0556S	43,595091	-0,000600	43,594491	-1,335045	
DT0513V	0,000331	0,000396		?? 0,562893	
		0,001235	0,000540		

Horisontell nätutjämnning, längder					Skapad: 2008-01-08
				Från punkt	Till punkt
Max residual:	-0,001903			DT0305S	DT0513V
Max std residual:	2,828370			CT0090S	CT0055V
Antal längder:		337			
Från punkt	Värde	Residual	Utj värde	Std Residual	
Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet	
		MUF	YT		
DT0556S	58,324129	0,000347	58,324476	0,699606	
DT0615V		0,000375		??	0,632696
		0,001320	0,000485		
BT0814S	176,396974	-0,000291	176,396683	-0,391381	
BT0637V		0,000729		??	0,706898
		0,002428	0,000712		
BT0814S	127,735698	-0,000387	127,735312	-0,560369	
BT0685S		0,000583		0,807950	
		0,001817	0,000349		
BT0814S	60,396024	0,000682	60,396706	1,461586	
BT0754H		0,000420		??	0,552143
		0,001436	0,000643		
BT0814S	60,185077	0,000692	60,185769	1,697419	
BT0754V		0,000477		??	0,421411
		0,001641	0,000950		
BT0814S	8,468267	?? 0,000500	8,468767	1,242787	
BT0806H		0,000372		??	0,539185
		0,000860	0,000396		
BT0814S	27,173734	0,000314	27,174048	0,673624	
TT0024S		0,000334		??	0,659641
		0,000971	0,000330		
BT0814S	124,081024	-0,000087	124,080937	-0,164872	
TT0120H		0,000545		??	0,483912
		0,002303	0,001189		
BT0814S	41,923739	0,000477	41,924216	1,473701	
BT0855V		0,000501		!!	0,294329
		0,001681	0,001186		
BT0814S	43,404260	0,000459	43,404719	1,146216	
BT0856H		0,000445		??	0,447818
		0,001382	0,000763		
BT0814S	86,102893	0,000553	86,103446	0,895283	
BT0897S		0,000279		0,830859	
		0,001408	0,000238		
BT0814S	97,000766	-0,000457	97,000309	-0,811092	
BT0909H		0,000415		??	0,648707
		0,001707	0,000600		



Horisontell nätutjämnning, längder					Skapad: 2008-01-08
Max residual:		-0,001903	Från punkt	Till punkt	
Max std residual:		2,828370	DT0305S	DT0513V	
			CT0090S	CT0055V	
Antal längder:		337			
Från punkt	Värde	Residual	Utj värde	Std Residual	
Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet	
		MUF	YT		
TT0024S	32,868278	-0,000469	32,867810	-1,129332	
BT0806H	0,000299	0,000408		?? 0,508860	
		0,001172	0,000576		
TT0024S	27,173899	0,000149	27,174048	0,319318	
BT0814S	0,000282	0,000334		?? 0,659642	
		0,000971	0,000330		
TT0024S	29,967904	0,000000	29,967904	?	
TT0054H	0,000290	0,000577		!! 0,000000	
		?	?		
TT0024S	65,409899	0,000000	65,409899	?	
TT0088H	0,000396	0,000637		!! 0,000000	
		?	?		
TT0024S	96,911265	0,000074	96,911340	0,165956	
TT0120H	0,000491	0,000537		?? 0,411253	
		0,002143	0,001261		
BT0897S	146,416415	0,000147	146,416562	0,219672	
BT0754H	0,000639	0,000456		?? 0,684091	
		0,002164	0,000684		
BT0897S	93,569724	-0,000157	93,569566	-0,283358	
BT0806H	0,000481	0,000415		?? 0,641957	
		0,001680	0,000601		
BT0897S	86,102731	0,000715	86,103446	1,157384	
BT0814S	0,000458	0,000279		0,830859	
		0,001408	0,000238		
BT0897S	43,210712	0,000460	43,211172	1,150288	
BT0856H	0,000330	0,000445		?? 0,446549	
		0,001381	0,000764		
BT0897S	8,092476	?? 0,000555	8,093032	1,423613	
BT0900V	0,000224	0,000384		?? 0,507514	
		0,000881	0,000434		
BT0897S	11,012814	0,000394	11,013208	0,974653	
BT0909H	0,000233	0,000374		?? 0,538939	
		0,000889	0,000410		
BT0897S	96,061806	-0,000850	96,060956	-1,388871	
NBT0100S	0,000488	0,000336		0,768778	
		0,001559	0,000360		

Horisontell nätutjämnning, längder					Skapad: 2008-01-08
Max residual:		-0,001903	Från punkt	Till punkt	
Max std residual:		2,828370	DT0305S	DT0513V	
			CT0090S	CT0055V	
Antal längder:		337			
Från punkt	Värde	Residual	Utj värde	Std Residual	
Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet	
		MUF	YT		
BT0897S	31,525008	-0,000066	31,524941	-0,171758	
BT0929H	0,000295	0,000432		?? 0,445881	
		0,001235	0,000684		
BT0897S	33,678193	0,000248	33,678441	?? 2,198419	
BT0930V	0,000301	0,000572		!! 0,037388	
		0,004359	0,004196		
BT0897S	67,025963	?? -0,000907	67,025056	-1,551909	
BT0963S	0,000401	0,000262		0,832595	
		0,001231	0,000206		
BT0897S	86,104011	-0,000565	86,103446	-0,915523	
BT0814S	0,000458	0,000279		0,830860	
		0,001408	0,000238		
BT0897S	8,093506	?? -0,000475	8,093032	-1,217304	
BT0900V	0,000224	0,000384		?? 0,507516	
		0,000882	0,000434		
BT0897S	45,816119	!! 0,001084	45,817202	?? 2,782466	
NBT0050V	0,000337	0,000460		?? 0,417679	
		0,001462	0,000851		
BT0897S	47,078023	-0,000637	47,077387	-1,623426	
NBT0051H	0,000341	0,000460		?? 0,420468	
		0,001473	0,000854		
BT0897S	96,060235	0,000721	96,060956	1,178664	
NBT0100S	0,000488	0,000336		0,768776	
		0,001559	0,000360		
BT0897S	135,227134	0,000000	135,227134	?	
NBT0138	0,000606	0,000785		!! 0,000000	
		?	?		
BT0897S	64,701594	0,000655	64,702250	1,282494	
BT0962H	0,000394	0,000379		?? 0,645555	
		0,001373	0,000487		
BT0897S	84,829173	-0,000265	84,828907	-0,497529	
BT0982V	0,000454	0,000414		?? 0,624226	
		0,001611	0,000605		
BT0897S	67,025285	-0,000228	67,025056	-0,390876	
BT0963S	0,000401	0,000262		0,832594	
		0,001231	0,000206		

Horisontell nätutjämnning, längder					Skapad: 2008-01-08
Max residual:		-0,001903	Från punkt	DT0305S	Till punkt
Max std residual:		2,828370	CT0090S	DT0513V	CT0055V
Antal längder:		337			
Från punkt	Värde	Residual	Utj värde	Std Residual	
Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet	
		MUF	YT		
BT0963S	67,024037	?? 0,001020	67,025056	1,745143	
BT0897S	0,000401	0,000262		0,832593	
		0,001231	0,000206		
BT0963S	56,177882	0,000247	56,178129	0,520905	
BT0909H	0,000369	0,000400		?? 0,583959	
		0,001350	0,000562		
BT0963S	35,897006	-0,000020	35,896987	-0,049284	
BT0929H	0,000308	0,000432		?? 0,456476	
		0,001275	0,000693		
BT0963S	7,806326	0,000129	7,806455	0,314965	
BT0962H	0,000223	0,000362		?? 0,561238	
		0,000835	0,000366		
BT0963S	21,893522	0,000394	21,893916	1,003397	
DT0986V	0,000266	0,000408		?? 0,480702	
		0,001073	0,000557		
BT0963S	18,633178	?? 0,000571	18,633749	1,386026	
BT0982V	0,000256	0,000381		?? 0,538776	
		0,000976	0,000450		
BT0963S	26,937199	0,000067	26,937265	0,186229	
BT0991H	0,000281	0,000447		?? 0,391195	
		0,001257	0,000765		
BT0963S	43,220998	?? -0,000987	43,220011	?? -2,510454	
BT1008V	0,000330	0,000451		?? 0,431906	
		0,001405	0,000798		
BT0963S	94,359500	0,000329	94,359828	0,523422	
BT1059S	0,000483	0,000296		0,817844	
		0,001496	0,000272		
BT0963S	94,359656	0,000173	94,359828	0,274812	
BT1059S	0,000483	0,000296		0,817844	
		0,001496	0,000272		
BT1059S	94,359482	0,000347	94,359828	0,552082	
BT0963S	0,000483	0,000296		0,817844	
		0,001496	0,000272		
BT1059S	77,432791	0,000440	77,433232	0,864692	
BT0982V	0,000432	0,000420		?? 0,594994	
		0,001569	0,000636		

Horisontell nätutjämnning, längder					Skapad: 2008-01-08
			Från punkt	Till punkt	
Max residual:	-0,001903		DT0305S	DT0513V	
Max std residual:	2,828370		CT0090S	CT0055V	
Antal längder:	337				
Från punkt	Värde	Residual	Utj värde	Std Residual	
Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet	
		MUF	YT		
BT1059S	67,422560	0,000084	67,422644	0,187012	
BT0991H	0,000402	0,000458		?? 0,489908	
		0,001609	0,000821		
BT1059S	51,900800	!! -0,001074	51,899727	?? -2,601224	
BT1008V	0,000356	0,000453		?? 0,453219	
		0,001479	0,000809		
BT1059S	9,585727	0,000000	9,585727	?	
816	0,000229	0,000549		!! 0,000000	
		?	?		
BT1059S	32,125532	0,000000	32,125532	?	
817	0,000296	0,000581		!! 0,000000	
		?	?		
BT1059S	25,346817	?? 0,000592	25,347409	1,540912	
BT1085V	0,000276	0,000422		?? 0,453435	
		0,001148	0,000627		
BT1059S	28,764912	?? 0,000719	28,765630	1,712943	
BT1087H	0,000286	0,000394		?? 0,531035	
		0,001100	0,000516		
BT1059S	36,329418	-0,000282	36,329136	-0,554711	
BT1095S	0,000309	0,000293		0,751122	
		0,000998	0,000248		
BT1059S	47,464873	-0,000392	47,464481	-0,856452	
BT1106H	0,000342	0,000396		?? 0,572426	
		0,001267	0,000542		
BT1095S	36,329874	?? -0,000738	36,329136	-1,450211	
BT1059S	0,000309	0,000293		0,751123	
		0,000998	0,000248		
BT1095S	11,569880	?? 0,000568	11,570448	1,580172	
BT1085V	0,000235	0,000419		?? 0,424512	
		0,001009	0,000580		
BT1095S	9,540259	!! 0,000795	9,541054	1,941620	
BT1087H	0,000229	0,000366		?? 0,555933	
		0,000859	0,000381		
BT1095S	11,434659	!! 0,001059	11,435718	?? 2,589918	
BT1106H	0,000234	0,000370		?? 0,549138	
		0,000885	0,000399		

Horisontell nätutjämnning, längder					Skapad: 2008-01-08
Max residual:		-0,001903	Från punkt	Till punkt	
Max std residual:		2,828370	DT0305S	DT0513V	
			CT0090S	CT0055V	
Antal längder:		337			
Från punkt	Värde	Residual	Utj värde	Std Residual	
Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet	
		MUF	YT		
BT1095S	45,229349	!! -0,001082	45,228267	??	-2,648686
BT1139H	0,000336	0,000442		??	0,460916
		0,001384	0,000746		
BT1095S	55,499756	-0,000080	55,499676		-0,184436
BT1149V	0,000366	0,000443		??	0,487458
		0,001470	0,000753		
BT1095S	77,810664	-0,000079	77,810585		-0,148878
BT1170H	0,000433	0,000395		??	0,642992
		0,001513	0,000540		
BT1095S	77,909294	0,000526	77,909821		0,876850
BT1170S	0,000434	0,000277			0,824284
		0,001338	0,000235		
BT1170S	87,279847	-0,000123	87,279725		-0,223220
BT1087H	0,000462	0,000401		??	0,652360
		0,001601	0,000557		
BT1170S	77,909647	0,000174	77,909821		0,290258
BT1095S	0,000434	0,000277			0,824284
		0,001338	0,000235		
BT1170S	68,147535	?? 0,000994	68,148528		1,982678
BT1106H	0,000404	0,000402		??	0,608531
		0,001452	0,000568		
BT1170S	33,064821	!! -0,000989	33,063832	??	-2,589003
BT1139H	0,000299	0,000439		??	0,430895
		0,001276	0,000726		
BT1170S	22,944644	-0,000094	22,944550		-0,259142
BT1149V	0,000269	0,000436		??	0,407724
		0,001179	0,000698		
BT1170S	4,073867	!! 0,000865	4,074732	??	2,232088
BT1170H	0,000212	0,000380		??	0,509884
		0,000832	0,000408		
BT1170S	22,014898	0,000079	22,014977		0,203016
ST0084H	0,000266	0,000412		??	0,469819
		0,001087	0,000576		
1001	159,930813	0,000115	159,930928		0,157366
SW1003	0,000680	0,000421			0,750615
		0,002197	0,000548		

Horisontell nätutjämnning, längder					Skapad: 2008-01-08
		Från punkt	Till punkt		
Max residual:	-0,001903	DT0305S	DT0513V		
Max std residual:	2,828370	CT0090S	CT0055V		
Antal längder:		337			
Från punkt	Värde	Residual	Utj värde	Std Residual	
Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet	
		MUF	YT		
1001	222,126106	-0,000055	222,126051	-0,064020	
SW1006	0,000866	0,000509		0,740727	
		0,002819	0,000731		
1001	93,221379	0,000461	93,221839	0,802834	
SW1007	0,000480	0,000387		?? 0,687591	
		0,001620	0,000506		
SW1007	66,709218	?? 0,000895	66,710113	1,723954	
SW1003	0,000400	0,000374		?? 0,657824	
		0,001381	0,000473		
SW1007	196,414035	-0,000237	196,413798	-0,290781	
SW1006	0,000789	0,000458		0,759464	
		0,002536	0,000610		
SW1007	93,221581	0,000259	93,221839	0,450838	
1001	0,000480	0,000387		?? 0,687592	
		0,001620	0,000506		
SW1006	200,661710	-0,000440	200,661270	-0,581133	
SW1001	0,000802	0,000565		?? 0,641789	
		0,002803	0,001004		
SW1006	196,413906	-0,000108	196,413798	-0,132795	
SW1007	0,000789	0,000458		0,759464	
		0,002536	0,000610		
SW1006	222,125976	0,000075	222,126051	0,087251	
1001	0,000866	0,000509		0,740727	
		0,002819	0,000731		
SW1001	97,855303	0,000876	97,856179	1,368789	
700	0,000494	0,000288		0,831561	
		0,001516	0,000255		
SW1001	108,401104	0,000809	108,401912	1,226468	
SW1000	0,000525	0,000300		0,828330	
		0,001616	0,000277		
SW1001	113,150395	-0,001001	113,149394	-1,593628	
SW1002	0,000539	0,000381		0,730983	
		0,001767	0,000475		
SW1001	138,962609	-0,000137	138,962471	-0,189214	
SW1003	0,000617	0,000319		0,838792	
		0,001886	0,000304		

Horisontell nätutjämnning, längder					Skapad: 2008-01-08
Max residual:		-0,001903	Från punkt	Till punkt	
Max std residual:		2,828370	DT0305S	DT0513V	
			CT0090S	CT0055V	
Antal längder:		337			
Från punkt	Värde	Residual	Utj värde	Std Residual	
Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet	
		MUF	YT		
SW1001	200,661635	-0,000365	200,661270	-0,482324	
SW1006	0,000802	0,000565		?? 0,641789	
		0,002803	0,001004		
SW1003	54,481237	-0,000375	54,480862	-0,696303	
700	0,000363	0,000302		0,761231	
		0,001166	0,000278		
SW1003	41,113125	-0,000331	41,112794	-0,645025	
SW1000	0,000323	0,000302		0,741918	
		0,001051	0,000271		
SW1003	138,963065	-0,000593	138,962471	-0,816528	
SW1001	0,000617	0,000319		0,838793	
		0,001886	0,000304		
SW1003	66,710365	-0,000253	66,710113	-0,487135	
SW1007	0,000400	0,000374		?? 0,657826	
		0,001381	0,000473		
SW1003	159,931447	-0,000519	159,930928	-0,710027	
1001	0,000680	0,000421		0,750616	
		0,002197	0,000548		
700	72,826916	0,000637	72,827554	1,391361	
BT0000H	0,000418	0,000463		?? 0,494689	
		0,001666	0,000842		
700	91,831585	-0,000009	91,831576	-0,016451	
BT0018H	0,000475	0,000416		?? 0,636200	
		0,001669	0,000607		
700	97,856325	-0,000146	97,856179	-0,227357	
SW1001	0,000494	0,000288		0,831562	
		0,001516	0,000255		
700	19,934979	-0,000431	19,934547	-1,001864	
SW1002	0,000260	0,000362		?? 0,585369	
		0,000951	0,000394		
700	54,479765	!! 0,001098	54,480862	?? 2,037176	
SW1003	0,000363	0,000302		0,761229	
		0,001166	0,000278		
700	72,692340	0,000605	72,692945	1,103068	
DT0000V	0,000418	0,000351		?? 0,708883	
		0,001390	0,000405		

Horisontell nätutjämnning, längder					Skapad: 2008-01-08
		Från punkt	Till punkt		
Max residual:	-0,001903	DT0305S	DT0513V		
Max std residual:	2,828370	CT0090S	CT0055V		
Antal längder:		337			
Från punkt	Värde	Residual	Utj värde	Std Residual	
Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet	
		MUF	YT		
700	110,842570	?? -0,001340	110,841230	?? -2,176708	
DT0038V	0,000533	0,000392		0,711736	
		0,001767	0,000509		
700	87,715701	0,000060	87,715761	0,097255	
DT0015S	0,000463	0,000278		0,833173	
		0,001421	0,000237		
700	74,084628	?? 0,001173	74,085801	?? 2,264347	
DT0001H	0,000422	0,000399		?? 0,628301	
		0,001492	0,000554		
700	97,856344	-0,000165	97,856179	-0,257521	
SW1001	0,000494	0,000288		0,831562	
		0,001516	0,000255		
700	59,841222	0,000322	59,841544	0,740647	
SW1004	0,000380	0,000451		?? 0,482066	
		0,001531	0,000793		
700	56,948475	-0,000257	56,948218	-0,594139	
SW1005	0,000371	0,000447		?? 0,482295	
		0,001495	0,000774		
DT0015S	87,716982	?? -0,001220	87,715761	-1,963416	
700	0,000463	0,000278		0,833175	
		0,001421	0,000237		
DT0015S	79,297720	0,000571	79,298291	0,957350	
SW1000	0,000438	0,000291		0,807864	
		0,001364	0,000262		
DT0015S	15,023908	!! 0,000741	15,024649	1,677401	
DT0000V	0,000245	0,000338		?? 0,631136	
		0,000864	0,000319		
DT0015S	14,767910	0,000437	14,768347	1,049516	
DT0001H	0,000244	0,000368		?? 0,561148	
		0,000913	0,000401		
DT0015S	23,218582	0,000062	23,218644	0,137382	
DT0038V	0,000270	0,000345		?? 0,631357	
		0,000950	0,000350		
DT0015S	28,841565	0,000510	28,842076	1,255441	
DT0043H	0,000287	0,000408		?? 0,498606	
		0,001136	0,000570		



Horisontell nätutjämnning, längder					Skapad: 2008-01-08
		Från punkt	Till punkt		
Max residual:	-0,001903	DT0305S	DT0513V		
Max std residual:	2,828370	CT0090S	CT0055V		
Antal längder:		337			
Från punkt	Värde	Residual	Utj värde	Std Residual	
Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet	
		MUF	YT		
DT0015S	62,973792	-0,000615	62,973177	-1,205664	
DT0078V	0,000389	0,000375		?? 0,648869	
		0,001352	0,000475		
DT0015S	32,565940	-0,000359	32,565581	-0,688996	
DT0047S	0,000298	0,000258		0,802572	
		0,000930	0,000184		
SW1000	61,770456	-0,000410	61,770046	-0,961240	
BT0000H	0,000385	0,000464		?? 0,457525	
		0,001595	0,000865		
SW1000	80,947233	-0,000215	80,947018	-0,404161	
BT0018H	0,000443	0,000403		?? 0,635517	
		0,001555	0,000567		
SW1000	98,648630	0,000129	98,648759	0,214098	
BT0035S	0,000496	0,000360		0,737923	
		0,001617	0,000424		
SW1000	64,460195	0,000473	64,460668	0,899336	
DT0000V	0,000393	0,000357		?? 0,683821	
		0,001332	0,000421		
SW1000	79,298794	-0,000503	79,298291	-0,842724	
DT0015S	0,000438	0,000291		0,807865	
		0,001364	0,000262		
SW1000	48,132407	-0,000274	48,132133	-0,676261	
SW1004	0,000344	0,000451		?? 0,447685	
		0,001441	0,000796		
SW1000	49,853262	0,000195	49,853458	0,472841	
SW1005	0,000350	0,000448		?? 0,459912	
		0,001443	0,000779		
SW1000	41,112328	0,000466	41,112794	0,909296	
SW1003	0,000323	0,000302		0,741917	
		0,001051	0,000271		
SW1000	6,365520	!! 0,000978	6,366498	?? 2,354113	
SW1002	0,000219	0,000353		?? 0,579996	
		0,000806	0,000338		
SW1000	108,401622	0,000290	108,401912	0,440252	
SW1001	0,000525	0,000300		0,828331	
		0,001616	0,000277		

Horisontell nätutjämnning, längder					Skapad: 2008-01-08
			Från punkt	Till punkt	
Max residual:	-0,001903		DT0305S	DT0513V	
Max std residual:	2,828370		CT0090S	CT0055V	
Antal längder:	337				
Från punkt	Värde	Residual	Utj värde	Std Residual	
Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet	
		MUF	YT		
SW1000	13,592834	-0,000247	13,592587	-0,503154	
700	0,000241	0,000256		0,786915	
		0,000760	0,000162		
BT0035S	98,649639	-0,000880	98,648759	-1,455824	
SW1000	0,000496	0,000360		0,737924	
		0,001617	0,000424		
BT0035S	93,551835	0,000734	93,552569	1,354775	
SW1002	0,000481	0,000432		?? 0,610613	
		0,001722	0,000671		
BT0035S	18,034546	-0,000071	18,034475	-0,192725	
BT0018H	0,000254	0,000421		?? 0,435299	
		0,001078	0,000609		
BT0035S	13,086704	0,000412	13,087116	1,180735	
BT0047V	0,000239	0,000430		?? 0,397598	
		0,001062	0,000640		
BT0035S	25,037862	0,000357	25,038218	0,955699	
BT0059H	0,000275	0,000431		?? 0,428533	
		0,001177	0,000672		
BT0035S	48,159241	?? -0,000835	48,158405	-1,605925	
BT0082S	0,000344	0,000312		0,735035	
		0,001125	0,000298		
BT0035S	64,692013	-0,000060	64,691953	-0,152497	
BT0099V	0,000394	0,000497		?? 0,389034	
		0,001769	0,001081		
BT0082S	48,158540	-0,000135	48,158405	-0,259490	
BT0035S	0,000344	0,000312		0,735034	
		0,001125	0,000298		
BT0082S	36,167458	0,000421	36,167880	1,062518	
BT0047V	0,000309	0,000433		?? 0,456488	
		0,001279	0,000695		
BT0082S	23,348979	0,000364	23,349344	0,984772	
BT0059H	0,000270	0,000431		?? 0,424777	
		0,001160	0,000667		
BT0082S	34,409804	-0,000291	34,409514	-0,789489	
BT0117H	0,000303	0,000454		?? 0,396796	
		0,001348	0,000813		

Horisontell nätutjämnning, längder					Skapad: 2008-01-08
Max residual:		-0,001903	Från punkt	Till punkt	
Max std residual:		2,828370	DT0305S	DT0513V	
			CT0090S	CT0055V	
Antal längder:		337			
Från punkt	Värde	Residual	Utj värde	Std Residual	
Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet	
		MUF	YT		
BT0082S	96,944715	0,000327	96,945042	0,526580	
BT0180S	0,000491	0,000322		0,787970	
		0,001548	0,000328		
BT0082S	118,857792	-0,000073	118,857719	-0,121622	
BT0202V	0,000557	0,000445		?? 0,646170	
		0,001939	0,000686		
BT0082S	129,144114	-0,000550	129,143564	-0,879447	
BT0212H	0,000587	0,000450		?? 0,659264	
		0,002026	0,000690		
BT0180S	96,944688	0,000354	96,945042	0,569498	
BT0082S	0,000491	0,000322		0,787970	
		0,001548	0,000328		
BT0180S	80,831233	0,000027	80,831261	0,061952	
BT0099V	0,000442	0,000498		?? 0,442175	
		0,001863	0,001039		
BT0180S	62,892049	-0,000331	62,891718	-0,766126	
BT0117H	0,000389	0,000463		?? 0,465513	
		0,001595	0,000853		
BT0180S	21,923462	!! 0,000899	21,924361	?? 2,227479	
BT0202V	0,000266	0,000396		?? 0,509295	
		0,001043	0,000512		
BT0180S	32,952554	0,000459	32,953013	1,088891	
BT0212H	0,000299	0,000401		?? 0,524974	
		0,001155	0,000549		
BT0180S	99,194516	-0,000345	99,194171	-0,587856	
BT0278H	0,000498	0,000390		?? 0,693099	
		0,001674	0,000514		
BT0180S	98,851960	-0,000526	98,851434	-0,825209	
BT0278S	0,000497	0,000299		0,819450	
		0,001536	0,000277		
BT0180S	164,897046	-0,000809	164,896238	-1,115994	
BT0344H	0,000695	0,000454		0,717985	
		0,002296	0,000647		
BT0180S	166,062895	-0,000653	166,062242	-0,988293	
BT0345V	0,000698	0,000547		?? 0,593899	
		0,002537	0,001030		

Horisontell nätutjämnning, längder					Skapad: 2008-01-08
Max residual:		-0,001903	Från punkt	Till punkt	
Max std residual:		2,828370	DT0305S	DT0513V	
			CT0090S	CT0055V	
Antal längder:		337			
Från punkt	Värde	Residual	Utj värde	Std Residual	
Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet	
		MUF	YT		
BT0278S	98,851297	0,000137	98,851434	0,215430	
BT0180S	0,000497	0,000299		0,819449	
		0,001536	0,000277		
BT0278S	77,042642	?? 0,001167	77,043809	?? 2,312323	
BT0202V	0,000431	0,000425		?? 0,585255	
		0,001578	0,000654		
BT0278S	66,810097	0,000099	66,810196	0,206149	
BT0212H	0,000400	0,000423		?? 0,562978	
		0,001494	0,000653		
BT0278S	5,526726	0,000368	5,527094	0,879493	
BT0278H	0,000217	0,000348		?? 0,592197	
		0,000788	0,000321		
BT0278S	23,072093	-0,000430	23,071663	-1,037627	
DT0305V	0,000269	0,000388		?? 0,532384	
		0,001033	0,000483		
BT0278S	18,082790	0,000279	18,083070	0,636887	
DT0305S	0,000254	0,000349		?? 0,612845	
		0,000909	0,000352		
BT0278S	66,174278	0,000504	66,174782	1,013090	
BT0344H	0,000399	0,000401		?? 0,605375	
		0,001434	0,000566		
BT0278S	67,252842	0,000355	67,253197	0,955645	
BT0345V	0,000402	0,000522		!! 0,336086	
		0,001940	0,001288		
BT0278S	122,016055	-0,000434	122,015621	-0,643988	
BT0401S	0,000566	0,000340		0,797526	
		0,001775	0,000359		
BT0278S	174,570509	-0,000262	174,570247	-0,346108	
BT0452H	0,000724	0,000444		0,744159	
		0,002349	0,000601		
BT0401S	122,015080	0,000541	122,015621	0,803392	
BT0278S	0,000566	0,000340		0,797525	
		0,001775	0,000359		
BT0401S	121,833098	-0,000003	121,833096	-0,004387	
BT0278H	0,000565	0,000410		?? 0,704607	
		0,001886	0,000557		

Horisontell nätutjämnning, längder					Skapad: 2008-01-08
Max residual:		-0,001903	Från punkt	DT0305S	Till punkt
Max std residual:		2,828370	CT0090S	DT0513V	CT0055V
Antal längder:		337			
Från punkt	Värde	Residual	Utj värde	Std Residual	
Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet	
		MUF	YT		
BT0401S	56,095574	0,000383	56,095957	0,815042	
BT0344H	0,000368	0,000405		?? 0,573299	
		0,001362	0,000581		
BT0401S	52,554530	?? 0,000891	52,555420	1,898826	
BT0452H	0,000358	0,000396		?? 0,583471	
		0,001311	0,000546		
BT0401S	61,210795	-0,000008	61,210787	-0,017911	
BT0461V	0,000384	0,000426		?? 0,541679	
		0,001459	0,000669		
BT0401S	99,450335	-0,000467	99,449868	-0,750709	
BT0500S	0,000498	0,000333		0,777516	
		0,001582	0,000352		
BT0500S	155,516983	-0,000560	155,516423	-0,801636	
BT0344H	0,000667	0,000453		?? 0,704461	
		0,002224	0,000657		
BT0500S	99,449980	-0,000111	99,449868	-0,178582	
BT0401S	0,000498	0,000333		0,777515	
		0,001582	0,000352		
BT0500S	46,966896	?? 0,000795	46,967691	1,737533	
BT0452H	0,000341	0,000395		?? 0,573012	
		0,001261	0,000538		
BT0500S	39,138768	0,000257	39,139024	0,602057	
BT0461V	0,000317	0,000410		?? 0,519517	
		0,001233	0,000592		
BT0500S	61,042955	0,000036	61,042992	0,385800	
BT0561V	0,000383	0,000622		!! 0,022451	
		0,007160	0,006999		
BT0500S	85,521481	-0,000225	85,521256	-0,390402	
BT0587S	0,000457	0,000354		0,725674	
		0,001501	0,000412		
BT0587S	132,488000	-0,000103	132,487897	-0,159493	
BT0452H	0,000597	0,000439		?? 0,682139	
		0,002026	0,000644		
BT0587S	124,031022	-0,000470	124,030552	-0,772949	
BT0461V	0,000572	0,000454		?? 0,642055	
		0,001999	0,000716		

Horisontell nätutjämnning, längder					Skapad: 2008-01-08
Max residual:		-0,001903	Från punkt	Till punkt	
Max std residual:		2,828370	DT0305S	DT0513V	
			CT0090S	CT0055V	
Antal längder:		337			
Från punkt	Värde	Residual	Utj värde	Std Residual	
Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet	
		MUF	YT		
BT0587S	85,520573	0,000684	85,521256	1,186699	
BT0500S	0,000457	0,000354		0,725673	
		0,001501	0,000412		
BT0587S	6,212755	0,000421	6,213176	0,947034	
BT0588H	0,000219	0,000316		?? 0,663312	
		0,000752	0,000253		
BT0587S	17,681333	0,000488	17,681821	1,004855	
DT0614S	0,000253	0,000279		0,752005	
		0,000817	0,000203		
BT0587S	49,672962	0,000403	49,673366	1,012839	
BT0635H	0,000349	0,000461		?? 0,427353	
		0,001495	0,000856		
BT0587S	51,440246	0,000464	51,440710	1,074789	
BT0637V	0,000354	0,000434		?? 0,498062	
		0,001406	0,000706		
BT0587S	100,026574	-0,000370	100,026204	-0,590218	
BT0685S	0,000500	0,000327		0,786155	
		0,001579	0,000338		
BT0685S	100,026477	-0,000273	100,026204	-0,435208	
BT0587S	0,000500	0,000327		0,786154	
		0,001579	0,000338		
BT0685S	99,262322	0,000369	99,262692	0,634449	
BT0588H	0,000498	0,000397		?? 0,682111	
		0,001688	0,000536		
BT0685S	50,683820	0,000409	50,684229	1,021191	
BT0635H	0,000352	0,000462		?? 0,429106	
		0,001505	0,000859		
BT0685S	48,931535	0,000574	48,932109	1,299550	
BT0637V	0,000347	0,000418		?? 0,528013	
		0,001336	0,000631		
BT0685S	67,409178	0,000804	67,409982	1,746778	
BT0754H	0,000402	0,000446		?? 0,515702	
		0,001568	0,000760		
BT0685S	68,253209	0,000745	68,253954	1,744702	
BT0754V	0,000405	0,000480		?? 0,441883	
		0,001705	0,000952		

Horisontell nätutjämnning, längder					Skapad: 2008-01-08
Max residual:		-0,001903	Från punkt	DT0305S	Till punkt
Max std residual:		2,828370		CT0090S	DT0513V
					CT0055V
Antal längder:		337			
Från punkt	Värde	Residual	Utj värde	Std Residual	
Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet	
		MUF	YT		
BT0685S	127,735052	0,000259	127,735312	0,375528	
BT0814S	0,000583	0,000336		0,807949	
		0,001817	0,000349		
BT0685S	169,170832	-0,001053	169,169779	-1,557944	
BT0855V	0,000708	0,000541		?? 0,609751	
		0,002537	0,000990		
DT0614S	100,780495	?? -0,001026	100,779469	-1,817145	
DT0513V	0,000502	0,000427		?? 0,635769	
		0,001764	0,000643		
DT0614S	100,834237	0,000276	100,834513	0,500831	
DT0513H	0,000503	0,000444		?? 0,606288	
		0,001807	0,000711		
DT0614S	57,239546	0,000176	57,239722	0,340877	
DT0556S	0,000372	0,000346		?? 0,691192	
		0,001252	0,000387		
DT0614S	5,183234	0,000411	5,183645	1,093353	
DT0615V	0,000216	0,000393		?? 0,477800	
		0,000873	0,000456		
DT0614S	17,681700	0,000121	17,681821	0,248484	
BT0587S	0,000253	0,000279		0,752006	
		0,000817	0,000203		
DT0614S	23,863297	-0,000400	23,862897	-0,846945	
BT0588H	0,000272	0,000317		?? 0,689725	
		0,000916	0,000284		
DT0614S	17,681699	0,000122	17,681821	0,250544	
BT0587S	0,000253	0,000279		0,752006	
		0,000817	0,000203		
DT0614S	23,863144	-0,000247	23,862897	-0,522882	
BT0588H	0,000272	0,000317		?? 0,689724	
		0,000916	0,000284		
DT0614S	61,425344	-0,000264	61,425080	-0,565587	
DT0674V	0,000384	0,000424		?? 0,547680	
		0,001454	0,000658		
DT0614S	73,181545	0,000675	73,182220	1,400097	
DT0685H	0,000420	0,000439		?? 0,546214	
		0,001589	0,000721		

Horisontell nätutjämnning, längder					Skapad: 2008-01-08
Max residual:		-0,001903	Från punkt	DT0305S	Till punkt
Max std residual:		2,828370	CT0090S	DT0513V	CT0055V
Antal längder:		337			
Från punkt	Värde	Residual	Utj värde	Std Residual	
Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet	
		MUF	YT		
DT0735S	122,247994	-0,001118	122,246876	-1,688992	
DT0614S	0,000567	0,000363		0,768556	
		0,001810	0,000419		
DT0735S	121,086932	-0,000398	121,086534	-0,643560	
DT0615V	0,000563	0,000428		?? 0,676277	
		0,001918	0,000621		
DT0735S	61,225353	0,000034	61,225386	0,065061	
DT0674V	0,000384	0,000359		?? 0,675262	
		0,001307	0,000425		
DT0735S	49,073488	0,000272	49,073760	0,568453	
DT0685H	0,000347	0,000375		?? 0,618780	
		0,001236	0,000471		
DT0735S	61,225428	-0,000042	61,225386	-0,080841	
DT0674V	0,000384	0,000359		?? 0,675262	
		0,001307	0,000425		
DT0735S	49,073441	0,000319	49,073760	0,666776	
DT0685H	0,000347	0,000375		?? 0,618780	
		0,001236	0,000471		
DT0735S	36,468969	?? 0,000754	36,469723	?? 2,120462	
DT0772H	0,000309	0,000468		?? 0,366002	
		0,001432	0,000908		
DT0735S	59,675492	?? -0,000902	59,674590	?? -2,216102	
DT0795V	0,000379	0,000477		?? 0,421580	
		0,001635	0,000945		
DT0735S	119,632499	-0,000617	119,631882	-0,932644	
DT0855S	0,000559	0,000351		0,779894	
		0,001772	0,000390		
DT0855S	180,711507	-0,000569	180,710938	-0,737051	
DT0674V	0,000742	0,000451		0,745345	
		0,002407	0,000613		
DT0855S	119,631770	0,000112	119,631882	0,169736	
DT0735S	0,000559	0,000351		0,779893	
		0,001772	0,000390		
DT0855S	83,201933	?? 0,000970	83,202903	?? 2,086839	
DT0772H	0,000450	0,000485		?? 0,478775	
		0,001819	0,000948		



Horisontell nätutjämnning, längder					Skapad: 2008-01-08
Max residual:		-0,001903	Från punkt	Till punkt	
Max std residual:		2,828370	DT0305S	DT0513V	
			CT0090S	CT0055V	
Antal längder:		337			
Från punkt	Värde	Residual	Utj värde	Std Residual	
Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet	
		MUF	YT		
DT0855S	60,330442	?? -0,000915	60,329527	??	-2,243000
DT0795V	0,000381	0,000477		??	0,422389
		0,001641	0,000948		
DT0855S	44,988361	0,000011	44,988372		0,028017
DT0900V	0,000335	0,000468		??	0,393770
		0,001495	0,000906		
DT0855S	47,496965	0,000418	47,497384		1,029282
DT0902H	0,000342	0,000449		??	0,450740
		0,001428	0,000785		
DT0939S	84,228127	?? -0,001332	84,226795	??	-2,455453
DT0855S	0,000453	0,000400		??	0,647915
		0,001575	0,000554		
DT0939S	39,239419	0,000009	39,239428		0,023936
DT0900V	0,000318	0,000465		??	0,381558
		0,001440	0,000891		
DT0939S	37,581352	0,000376	37,581728		0,906306
DT0902H	0,000313	0,000418		??	0,495938
		0,001243	0,000627		
DT0939S	47,340822	0,000468	47,341290		1,007201
DT0986V	0,000342	0,000388		??	0,590007
		0,001247	0,000511		
DT0939S	48,597987	-0,000268	48,597719		-0,509176
DT0988S	0,000346	0,000302			0,752383
		0,001116	0,000276		
DT0939S	126,447550	0,000221	126,447770		0,322279
CT0000S	0,000579	0,000341			0,800896
		0,001813	0,000361		
DT0988S	48,598279	-0,000560	48,597719		-1,063172
DT0939S	0,000346	0,000302			0,752383
		0,001116	0,000276		
DT0988S	5,016285	?? 0,000532	5,016816		1,294046
DT0986V	0,000215	0,000356		??	0,571011
		0,000797	0,000342		
DT0988S	24,943728	0,000017	24,943745		0,043105
BT0962H	0,000275	0,000413		??	0,474587
		0,001117	0,000587		

Horisontell nätutjämnning, längder					Skapad: 2008-01-08
Max residual:		-0,001903	Från punkt	Till punkt	
Max std residual:		2,828370	DT0305S	DT0513V	
			CT0090S	CT0055V	
Antal längder:		337			
Från punkt	Värde	Residual	Utj värde	Std Residual	
Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet	
		MUF	YT		
DT0988S	17,197361	?? -0,000639	17,196722	-1,496071	
BT0963S	0,000252	0,000361		?? 0,583402	
		0,000922	0,000384		
DT0988S	77,869407	0,000333	77,869740	0,563656	
CT0000S	0,000434	0,000296		0,798958	
		0,001358	0,000273		
DT0988S	91,322002	-0,000094	91,321908	-0,170776	
CT0015V	0,000474	0,000416		?? 0,633994	
		0,001667	0,000610		
DT0988S	170,743712	?? -0,001794	170,741918	?? -2,236546	
CT0090S	0,000712	0,000335		0,851352	
		0,002161	0,000321		
CT0000S	164,028962	0,000095	164,029057	0,134686	
DT0902H	0,000692	0,000479		?? 0,684651	
		0,002342	0,000739		
CT0000S	126,448593	-0,000823	126,447770	-1,202868	
DT0939S	0,000579	0,000341		0,800897	
		0,001813	0,000361		
CT0000S	79,340326	0,000000	79,340326	?	
BT0986V	0,000438	0,000664		!! 0,000000	
		?	?		
CT0000S	77,869136	0,000000	77,869136	?	
BT0988S	0,000434	0,000661		!! 0,000000	
		?	?		
CT0000S	14,018108	?? 0,000656	14,018764	1,638225	
CT0015V	0,000242	0,000384		?? 0,520597	
		0,000939	0,000450		
CT0000S	15,029815	?? 0,000730	15,030545	?? 2,128296	
CT0015H	0,000245	0,000438		?? 0,379882	
		0,001113	0,000690		
CT0000S	54,472640	!! 0,001187	54,473827	?? 2,798505	
CT0055V	0,000363	0,000449		?? 0,471689	
		0,001482	0,000783		
CT0000S	61,348821	?? 0,000819	61,349640	1,855144	
CT0061H	0,000384	0,000449		?? 0,491472	
		0,001534	0,000780		

Horisontell nätutjämnning, längder					Skapad: 2008-01-08
Max residual:		-0,001903	Från punkt	DT0305S	Till punkt
Max std residual:		2,828370	CT0090S	DT0513V	CT0055V
Antal längder:		337			
Från punkt	Värde	Residual	Utj värde	Std Residual	
Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet	
		MUF	YT		
CT0000S	92,877777	?? -0,000989	92,876789	-1,549204	
CT0090S	0,000479	0,000266		0,851792	
		0,001452	0,000215		
CT0000S	77,868773	?? 0,000967	77,869740	1,636245	
DT0988S	0,000434	0,000296		0,798958	
		0,001358	0,000273		
CT0000S	92,878298	!! -0,001510	92,876789	??	-2,365263
CT0090S	0,000479	0,000266		0,851792	
		0,001452	0,000215		
CT0000S	35,499301	0,000458	35,499759	1,371937	
BST0035H	0,000306	0,000481		!!	0,324710
		0,001506	0,001017		
CT0000S	117,015454	0,000351	117,015806	0,658657	
BST0117V	0,000551	0,000518		??	0,514019
		0,002152	0,001046		
CT0000S	129,605297	-0,000488	129,604809	-0,752211	
BST0140S	0,000589	0,000418		??	0,707310
		0,001960	0,000574		
BST0140S	129,605502	-0,000693	129,604809	-1,068394	
CT0000S	0,000589	0,000418		??	0,707311
		0,001960	0,000574		
BST0140S	94,908923	0,000640	94,909562	1,350816	
BST0035H	0,000485	0,000510		??	0,463594
		0,001993	0,001069		
BST0140S	12,889416	0,000237	12,889653	0,808284	
BST0117V	0,000239	0,000469		!!	0,280759
		0,001261	0,000907		
CT0090S	170,741873	0,000044	170,741918	0,055416	
DT0988S	0,000712	0,000335		0,851351	
		0,002161	0,000321		
CT0090S	92,877789	?? -0,001000	92,876789	-1,567108	
CT0000S	0,000479	0,000266		0,851792	
		0,001452	0,000215		
CT0090S	79,713441	?? 0,000901	79,714342	1,706266	
CT0015V	0,000439	0,000404		??	0,631022
		0,001548	0,000571		

Horisontell nätutjämnning, längder					Skapad: 2008-01-08
Max residual:		-0,001903	Från punkt	Till punkt	
Max std residual:		2,828370	DT0305S	DT0513V	
			CT0090S	CT0055V	
Antal längder:		337			
Från punkt	Värde	Residual	Utj värde	Std Residual	
Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet	
		MUF	YT		
CT0090S	79,949688	0,000860	79,950548	1,750964	
CT0015H	0,000440	0,000449		?? 0,544468	
		0,001669	0,000760		
CT0090S	38,520335	!! 0,001097	38,521432	?? 2,828370	
CT0055V	0,000316	0,000445		?? 0,431212	
		0,001346	0,000765		
CT0090S	32,199015	?? 0,000614	32,199629	1,637862	
CT0061H	0,000297	0,000444		?? 0,416614	
		0,001287	0,000751		
CT0090S	34,654064	0,000355	34,654419	0,953842	
ST0033V	0,000304	0,000451		?? 0,405994	
		0,001336	0,000793		
CT0090S	34,820519	!! 0,001008	34,821527	?? 2,698398	
ST0033H	0,000304	0,000450		?? 0,407856	
		0,001335	0,000790		
CT0090S	81,833293	-0,000124	81,833169	-0,214046	
ST0081S	0,000445	0,000333		0,752935	
		0,001438	0,000355		
CT0090S	85,134713	-0,000068	85,134644	-0,130247	
ST0084H	0,000455	0,000428		?? 0,599302	
		0,001647	0,000660		
ST0081S	81,834622	!! -0,001453	81,833169	?? -2,503062	
CT0090S	0,000446	0,000333		0,752937	
		0,001438	0,000355		
ST0081S	48,512700	0,000309	48,513009	0,765568	
ST0033V	0,000346	0,000454		?? 0,441603	
		0,001456	0,000813		
ST0081S	47,163895	!! 0,001057	47,164953	?? 2,644169	
ST0033H	0,000341	0,000454		?? 0,437120	
		0,001446	0,000814		
ST0081S	3,301411	0,000220	3,301631	0,561133	
ST0084H	0,000210	0,000374		?? 0,522876	
		0,000813	0,000388		
ST0081S	25,000559	!! 0,000951	25,001510	?? 2,209254	
BT1170S	0,000275	0,000374		?? 0,570013	
		0,001020	0,000439		

Horisontell nätutjämnning, längder					Skapad: 2008-01-08	
			Från punkt		Till punkt	
Max residual:	-0,001903		DT0305S		DT0513V	
Max std residual:	2,828370		CT0090S		CT0055V	
Antal längder:	337					
Från punkt	Värde	Residual	Utj värde	Std Residual		
Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet		
		MUF	YT			
ST0081S	28,712877	!! -0,001069	28,711808	??	-2,699989	
BT1170H	0,000286	0,000418		??	0,473020	
		0,001165	0,000614			

Höjdnätutjämnning		Skapad: 2008-01-08		
Nätutjämningsfil:	P:\2173\2416545002 SKB stomnät SFR\SKG stomnät\11_Matn\xyz\Ujt_hojd.lna			
Beräkning:	Utjämnning	Metod:	Absolut anslutning	
Antal observationer:	343	Kontrollerbarhet:	0,61	
Antal obekanta:	134	Min tillåtna (HMK):	0,50	
Rangdefekt:	0			
Redundans:	209	Grundmedelfel:	1,05	
		Max tillåtna (HMK):	1,08	
<b>Apriori medelfel</b>				
<i>(Notera: Dessa är de senast använda standardinställningarna, värden kan skilja vid enskilda mätningar)</i>				
Längder:	0,000500 + 3,000000 ppm	Instr.höjd:	0,001000	
Vertikalvinklar:	0,000800	Signalhöjd:	0,001000	
Avvägd:	0,000500 för 1km dubbelavvägt tåg	Höjdoobservationer:	0,001000	
<b>Fördelning av BVH-kvot</b>				
Sigmanivå	Värde	Antal observationer	Ackumulerade (%)	Teoretisk (%)
1	0.0 - 1.0	254	74,05	68,01
2	1.0 - 2.0	73	95,34	95,57
3	2.0 - 3.0	5	96,79	99,69
3+	3.0 -	0	100,00	100,00
?	Ej beräkningsbar	11	100,00	

Höjdnätutjämnning, Kända punk			Skapad: 2008-01-08
Antal punkter:		2	
Punkt	Z -Koordinat	sZ	
1001	1,510000	0,000000	
SW1007	3,513000	0,000000	

Höjdnätutjämnning, Nypunkter		Skapad: 2008-01-08
Antal punkter: 134		
Punkt	Z -Koordinat	sZ
700	-0,592339	0,001196
816	-77,773067	0,002837
817	-76,098610	0,002866
BST0035H	-86,302971	0,002745
BST0117V	-85,570422	0,002857
BST0140S	-85,145680	0,002783
BT0000H	-10,807933	0,001552
BT0018H	-12,867328	0,001583
BT0035S	-16,201918	0,001481
BT0047V	-16,532908	0,001845
BT0059H	-18,256832	0,001844
BT0082S	-21,328859	0,001611
BT0099V	-24,419948	0,001790
BT0117H	-26,657509	0,001962
BT0180S	-34,975901	0,001683
BT0202V	-38,387765	0,001893
BT0212H	-39,664093	0,001898
BT0278H	-47,175929	0,001834
BT0278S	-48,313806	0,001691
BT0344H	-53,317432	0,001965
BT0345V	-54,602397	0,001966
BT0401S	-60,770883	0,001849
BT0452H	-63,534799	0,002027
BT0461V	-64,471624	0,002090
BT0500S	-66,888967	0,001909
BT0561V	-67,253996	0,002193
BT0587S	-69,489130	0,001932



Höjdnätutjämnning, Nypunkter		Skapad: 2008-01-08
Antal punkter: 134		
Punkt	Z -Koordinat	sZ
BT0588H	-67,985862	0,002023
BT0635H	-69,986611	0,002282
BT0637V	-70,582807	0,002250
BT0685S	-76,152568	0,002104
BT0754H	-81,527338	0,002388
BT0754V	-82,064302	0,002444
BT0806H	-83,135787	0,002435
BT0814S	-85,459643	0,002237
BT0855V	-86,350632	0,002414
BT0856H	-86,958760	0,002493
BT0897S	-91,071192	0,002277
BT0900V	-88,762101	0,002606
BT0909H	-88,959890	0,002431
BT0929H	-87,940519	0,002518
BT0930V	-87,621249	0,002518
BT0962H	-84,692436	0,002429
BT0963S	-85,931918	0,002312
BT0982V	-82,691153	0,002485
BT0986V	-84,150127	0,003011
BT0988S	-85,583088	0,003004
BT0991H	-81,858143	0,002591
BT1008V	-80,350599	0,002593
BT1059S	-77,781008	0,002410
BT1085V	-77,502305	0,002641
BT1087H	-77,712876	0,002588
BT1095S	-79,737930	0,002479
BT1106H	-79,365236	0,002589

Höjdnätutjämnning, Nypunkter		Skapad: 2008-01-08
Antal punkter: 134		
Punkt	Z -Koordinat	sZ
BT1139H	-82,348752	0,002702
BT1149V	-83,473357	0,002705
BT1170H	-83,466823	0,002606
BT1170S	-84,934597	0,002499
CT0000S	-87,971175	0,002396
CT0015H	-86,674039	0,002654
CT0015V	-86,679871	0,002544
CT0055V	-86,973443	0,002649
CT0061H	-85,924090	0,002651
CT0090S	-86,991615	0,002439
DT0000V	-10,610972	0,001485
DT0001H	-10,754150	0,001595
DT00121V	-25,234669	0,002179
DT0015S	-13,792364	0,001399
DT0038V	-14,976974	0,001573
DT0043H	-15,734103	0,001756
DT0047S	-17,693567	0,001483
DT0076H	-19,513999	0,001827
DT0078V	-19,924773	0,001637
DT0099S	-24,041043	0,001561
DT0120H	-25,061410	0,001822
DT0121V	-25,234659	0,002234
DT0138S	-28,780084	0,001647
DT0190V	-33,448004	0,001795
DT0194H	-34,045112	0,001879
DT0225H	-41,106954	0,001973
DT0225S	-39,084112	0,001648

Höjdnätutjämnning, Nypunkter		Skapad: 2008-01-08
Antal punkter: 134		
Punkt	Z -Koordinat	sZ
DT0255H	-41,104316	0,002708
DT0305S	-48,269511	0,001665
DT0305V	-46,694194	0,001782
DT0368V	-53,075428	0,002039
DT0369H	-53,357765	0,002040
DT0425S	-60,193124	0,001858
DT0513H	-64,977371	0,002114
DT0513V	-64,897709	0,002056
DT0556S	-67,578039	0,001939
DT0614S	-69,174241	0,001934
DT0615V	-67,694922	0,002030
DT0674V	-68,783144	0,002216
DT0685H	-68,880458	0,002238
DT0735S	-70,663281	0,002114
DT0772H	-69,645905	0,002430
DT0795V	-69,941597	0,002437
DT0855S	-73,692753	0,002247
DT0900V	-76,491581	0,002501
DT0902H	-76,438366	0,002459
DT0939S	-81,289042	0,002315
DT0986V	-84,151333	0,002533
DT0988S	-85,583924	0,002326
NBT0050V	-94,059193	0,002609
NBT0051H	-94,113294	0,002610
NBT0100S	-102,968702	0,002538
NBT0138	-106,135862	0,003260
NBT0138H	-106,137792	0,002804

Höjdnätutjämnning, Nypunkter		Skapad: 2008-01-08
Antal punkter: 134		
Punkt	Z -Koordinat	sZ
NBT0150H	-107,034220	0,002799
NBT0150S	-108,606983	0,002699
NBT0213V	-116,156377	0,003064
NBT0246H	-120,746124	0,003108
NBT0312H	-129,937294	0,003159
NBT0345S	-132,457411	0,002992
NBT0360H	-131,674647	0,003221
NBT0396S	-134,103056	0,003161
NBT0405V	-134,823649	0,003245
NBT0420H	-135,407678	0,003266
ST00084H	-84,907959	0,002931
ST0033H	-84,939939	0,002684
ST0033V	-84,864166	0,002685
ST0081S	-85,694148	0,002520
ST0084H	-84,909623	0,002689
SW1000	-2,502840	0,001200
SW1001	3,503918	0,001239
SW1002	-2,641402	0,001437
SW1003	4,336773	0,000958
SW1004	-8,836822	0,001651
SW1005	-7,736220	0,001648
SW1006	3,318603	0,001339
TT0024S	-84,618530	0,002406
TT0054H	-81,535066	0,002858
TT0088H	-79,798250	0,002960
TT0120H	-79,060111	0,002722

**Höjdnätutjämnning, observationer**

Skapad: 2008-01-08

		Från punkt	Till punkt		
Max residual:	-0,004711	DT0425S	DT0615V		
Max BVH-kvot:	-2,593483	DT0015S	700		
Antal observationer:		343			
Typ	Från punkt	Värde	Residual	Utj värde	BVH-kvot
	Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet
			MUF	YT	
Trigonometrisk	DT0614S	4,276717	-0,000185	4,276532	-0,097489
	DT0513V	0,001899	0,001153		?? 0,668337
			0,006502	0,002157	
Trigonometrisk	DT0614S	4,197427	-0,000556	4,196871	-0,292891
	DT0513H	0,001899	0,001192		?? 0,645270
			0,006619	0,002348	
Trigonometrisk	DT0614S	1,597196	-0,000994	1,596203	-0,626307
	DT0556S	0,001587	0,000825		0,756841
			0,005107	0,001242	
Trigonometrisk	DT0614S	1,478413	0,000906	1,479320	0,640082
	DT0615V	0,001416	0,000878		?? 0,653649
			0,004903	0,001698	
Trigonometrisk	DT0614S	-0,316067	0,001178	-0,314888	0,823092
	BT0587S	0,001432	0,000661		0,808151
			0,004459	0,000855	
Trigonometrisk	DT0614S	1,188825	-0,000446	1,188379	-0,308430
	BT0588H	0,001446	0,000818		0,711727
			0,004798	0,001383	
Trigonometrisk	DT0614S	-0,316119	0,001231	-0,314888	0,859954
	BT0587S	0,001432	0,000661		0,808151
			0,004459	0,000855	
Trigonometrisk	DT0614S	1,188665	-0,000286	1,188379	-0,197560
	BT0588H	0,001446	0,000818		0,711727
			0,004798	0,001383	
Trigonometrisk	DT0614S	0,390680	0,000417	0,391098	0,259053
	DT0674V	0,001611	0,001122		?? 0,563352
			0,006011	0,002625	
Trigonometrisk	DT0614S	0,293776	0,000007	0,293783	0,004057
	DT0685H	0,001687	0,001163		?? 0,572383
			0,006243	0,002670	
Trigonometrisk	DT0614S	-1,488772	-0,000267	-1,489039	-0,127972
	DT0735S	0,002088	0,000919		0,825747
			0,006434	0,001121	
Trigonometrisk	DT0735S	1,491557	-0,002518	1,489039	-1,205745
	DT0614S	0,002088	0,000919		0,825744
			0,006434	0,001121	

**Höjdnätutjämnning, observationer**

Skapad: 2008-01-08

	Från punkt	Till punkt			
Max residual:	-0,004711	DT0425S	DT0615V		
Max BVH-kvot:	-2,593483	DT0015S	700		
Antal observationer: 343					
Typ	Från punkt	Värde	Residual	Ujt värde	BVH-kvot
	Till punkt	Apr medelfel	Ujt medelfel		Kontrollerbarhet
			MUF	YT	
Trigonometrisk	DT0735S	2,969931	-0,001572	2,968359	-0,756773
	DT0615V	0,002077	0,001148		0,725023
			0,006831	0,001878	
Trigonometrisk	DT0735S	1,879683	0,000454	1,880137	0,282268
	DT0674V	0,001610	0,000977		?? 0,668823
			0,005512	0,001825	
Trigonometrisk	DT0735S	1,783188	-0,000365	1,782823	-0,236749
	DT0685H	0,001543	0,001003		?? 0,619685
			0,005488	0,002087	
Trigonometrisk	DT0735S	1,879582	0,000555	1,880137	0,344764
	DT0674V	0,001610	0,000977		?? 0,668824
			0,005512	0,001825	
Trigonometrisk	DT0735S	1,782463	0,000360	1,782823	0,233039
	DT0685H	0,001543	0,001003		?? 0,619685
			0,005488	0,002087	
Trigonometrisk	DT0735S	1,016796	0,000580	1,017376	0,390295
	DT0772H	0,001487	0,001266		!! 0,347728
			0,007059	0,004604	
Trigonometrisk	DT0735S	0,721435	0,000249	0,721684	0,155498
	DT0795V	0,001601	0,001292		?? 0,413520
			0,006970	0,004088	
Trigonometrisk	DT0735S	-3,026706	-0,002766	-3,029472	-1,340291
	DT0855S	0,002064	0,000988		0,793933
			0,006486	0,001337	
Trigonometrisk	DT0855S	4,913548	-0,003938	4,909609	-1,472098
	DT0674V	0,002675	0,001272		0,796614
			0,008393	0,001707	
Trigonometrisk	DT0855S	3,032808	-0,003336	3,029472	-1,616277
	DT0735S	0,002064	0,000988		0,793932
			0,006486	0,001337	
Trigonometrisk	DT0855S	4,047660	-0,000812	4,046848	-0,461765
	DT0772H	0,001759	0,001328		?? 0,486738
			0,007059	0,003623	
Trigonometrisk	DT0855S	3,751407	-0,000250	3,751156	-0,155889
	DT0795V	0,001605	0,001293		?? 0,415600
			0,006970	0,004073	

**Höjdnätutjämnning, observationer**

Skapad: 2008-01-08

		Från punkt	Till punkt		
Max residual:	-0,004711	DT0425S	DT0615V		
Max BVH-kvot:	-2,593483	DT0015S	700		
Antal observationer:		343			
Typ	Från punkt	Värde	Residual	Utg värde	BVH-kvot
	Till punkt	Apr medelfel	Utg medelfel		Kontrollerbarhet
			MUF	YT	
Trigonometrisk	DT0855S	-2,798822	-0,000006	-2,798828	-0,004007
	DT0900V	0,001524	0,001223		?? 0,420550
			0,006581	0,003814	
Trigonometrisk	DT0855S	-2,745851	0,000238	-2,745613	0,154873
	DT0902H	0,001536	0,001175		?? 0,473494
			0,006251	0,003291	
Trigonometrisk	DT0855S	-7,596472	0,000184	-7,596289	0,103834
	DT0939S	0,001768	0,000937		0,747049
			0,005727	0,001449	
Trigonometrisk	DT0939S	7,599060	-0,002771	7,596289	-1,567457
	DT0855S	0,001768	0,000937		0,747046
			0,005727	0,001449	
Trigonometrisk	DT0939S	4,797455	0,000006	4,797461	0,003940
	DT0900V	0,001499	0,001217		?? 0,406451
			0,006581	0,003906	
Trigonometrisk	DT0939S	4,849922	0,000754	4,850676	0,505179
	DT0902H	0,001492	0,001123		?? 0,489674
			0,005970	0,003046	
Trigonometrisk	DT0939S	-2,863033	0,000741	-2,862291	0,482828
	DT0986V	0,001535	0,001186		?? 0,462765
			0,006320	0,003395	
Trigonometrisk	DT0939S	-4,295275	0,000393	-4,294882	0,254868
	DT0988S	0,001542	0,000835		0,735982
			0,005031	0,001328	
Trigonometrisk	DT0939S	-6,679805	-0,002328	-6,682133	-1,094209
	CT0000S	0,002128	0,000969		0,813171
			0,006607	0,001234	
Trigonometrisk	DT0988S	4,295420	-0,000537	4,294882	-0,348674
	DT0939S	0,001542	0,000835		0,735983
			0,005031	0,001328	
Trigonometrisk	DT0988S	1,433221	-0,000630	1,432591	-0,445175
	DT0986V	0,001416	0,001162		?? 0,393402
			0,006320	0,003834	
Trigonometrisk	DT0988S	0,889757	0,001730	0,891488	1,194524
	BT0962H	0,001449	0,001056		?? 0,522155
			0,005613	0,002682	

**Höjdnätutjämnning, observationer**

Skapad: 2008-01-08

		Från punkt	Till punkt		
Max residual:	-0,004711	DT0425S	DT0615V		
Max BVH-kvot:	-2,593483	DT0015S	700		
Antal observationer:		343			
Typ	Från punkt	Värde	Residual	Utg värde	BVH-kvot
	Till punkt	Apr medelfel	Utg medelfel		Kontrollerbarhet
			MUF	YT	
Trigonometrisk	DT0988S	-0,347243	-0,000752	-0,347994	-0,525342
	BT0963S	0,001431	0,000824		?? 0,701561
			0,004783	0,001427	
Trigonometrisk	DT0988S	-2,384095	-0,003156	-2,387251	-1,834962
	CT0000S	0,001720	0,000840		0,785099
			0,005435	0,001168	
Trigonometrisk	DT0988S	-1,093886	-0,002061	-1,095947	-1,131811
	CT0015V	0,001821	0,001159		?? 0,635534
			0,006397	0,002332	
Trigonometrisk	CT0000S	11,535556	-0,002748	11,532809	-1,098796
	DT0902H	0,002500	0,001344		0,739925
			0,008139	0,002117	
Trigonometrisk	CT0000S	6,684000	-0,001867	6,682133	-0,877668
	DT0939S	0,002128	0,000969		0,813173
			0,006607	0,001234	
Trigonometrisk	CT0000S	3,821048	0,000000	3,821048	?
	BT0986V	0,001730	0,001824		!! 0,000000
			?	?	
Trigonometrisk	CT0000S	2,388087	0,000000	2,388087	?
	BT0988S	0,001720	0,001813		!! 0,000000
			?	?	
Trigonometrisk	CT0000S	1,290444	0,000860	1,291304	0,603266
	CT0015V	0,001425	0,001054		?? 0,508065
			0,005599	0,002754	
Trigonometrisk	CT0000S	1,296737	0,000399	1,297136	0,279824
	CT0015H	0,001427	0,001200		?? 0,363895
			0,006623	0,004213	
Trigonometrisk	CT0000S	0,998061	-0,000329	0,997732	-0,209578
	CT0055V	0,001571	0,001206		?? 0,469575
			0,006420	0,003405	
Trigonometrisk	CT0000S	2,047644	-0,000559	2,047085	-0,347209
	CT0061H	0,001611	0,001214		?? 0,488488
			0,006453	0,003301	
Trigonometrisk	CT0000S	0,980822	-0,001262	0,979560	-0,688069
	CT0090S	0,001834	0,000742		0,852698
			0,005560	0,000819	



## Höjdnätutjämnning, observationer

Skapad: 2008-01-08

		Från punkt	Till punkt		
Max residual:	-0,004711	DT0425S	DT0615V		
Max BVH-kvot:	-2,593483	DT0015S	700		
Antal observationer:		343			
Typ	Från punkt	Värde	Residual	Ujt värde	BVH-kvot
	Till punkt	Apr medelfel	Ujt medelfel		Kontrollerbarhet
			MUF	YT	
Trigonometrisk	CT0000S	2,388501	-0,001250	2,387251	-0,727027
	DT0988S	0,001720	0,000840		0,785098
			0,005435	0,001168	
Trigonometrisk	CT0000S	0,981222	-0,001661	0,979560	-0,905915
	CT0090S	0,001834	0,000742		0,852699
			0,005560	0,000819	
Trigonometrisk	CT0000S	1,666332	0,001872	1,668204	1,262157
	BST0035H	0,001483	0,001340		!! 0,265661
			0,008056	0,005916	
Trigonometrisk	CT0000S	2,401541	-0,000787	2,400753	-0,385962
	BST0117V	0,002040	0,001556		?? 0,476532
			0,008275	0,004332	
Trigonometrisk	CT0000S	2,828575	-0,003080	2,825495	-1,427839
	BST0140S	0,002157	0,001416		?? 0,612316
			0,007718	0,002992	
Trigonometrisk	BST0140S	-1,154379	-0,002913	-1,157292	-1,574614
	BST0035H	0,001850	0,001493		?? 0,413475
			0,008056	0,004725	
Trigonometrisk	BST0140S	-0,425126	0,000383	-0,424742	0,269313
	BST0117V	0,001424	0,001315		!! 0,232016
			0,008275	0,006355	
Trigonometrisk	CT0090S	1,410965	-0,003275	1,407690	-1,274415
	DT0988S	0,002570	0,000967		0,872634
			0,007703	0,000981	
Trigonometrisk	CT0090S	-0,978578	-0,000983	-0,979560	-0,536008
	CT0000S	0,001834	0,000742		0,852698
			0,005560	0,000819	
Trigonometrisk	CT0090S	0,311148	0,000595	0,311743	0,343347
	CT0015V	0,001733	0,001118		?? 0,625701
			0,006135	0,002296	
Trigonometrisk	CT0090S	0,318166	-0,000590	0,317576	-0,340224
	CT0015H	0,001735	0,001243		?? 0,537942
			0,006623	0,003060	
Trigonometrisk	CT0090S	0,017873	0,000298	0,018171	0,199413
	CT0055V	0,001495	0,001195		?? 0,425129
			0,006420	0,003691	

## Höjdnätutjämnning, observationer

Skapad: 2008-01-08

Max residual:	-0,004711	Från punkt	Till punkt
Max BVH-kvot:	-2,593483	DT0425S	DT0615V
		DT0015S	700

Antal observationer: 343

Typ	Från punkt	Värde	Residual	Ujt värde	BVH-kvot
	Till punkt	Apr medelfel	Ujt medelfel		Kontrollerbarhet
		MUF		YT	
Trigonometrisk	CT0090S	1,067058	0,000466	1,067524	0,317094
	CT0061H	0,001471	0,001194		?? 0,407424
			0,006453	0,003824	
Trigonometrisk	CT0090S	2,127103	0,000346	2,127449	0,234059
	ST0033V	0,001480	0,001203		?? 0,404942
			0,006511	0,003874	
Trigonometrisk	CT0090S	2,051113	0,000562	2,051675	0,379596
	ST0033H	0,001480	0,001202		?? 0,406622
			0,006500	0,003857	
Trigonometrisk	CT0090S	1,298931	-0,001465	1,297467	-0,837612
	ST0081S	0,001749	0,000890		0,766596
			0,005592	0,001305	
Trigonometrisk	CT0090S	2,084515	-0,002523	2,081992	-1,422780
	ST0084H	0,001773	0,001352		?? 0,477061
			0,007189	0,003759	
Trigonometrisk	ST0081S	-1,296137	-0,001329	-1,297467	-0,760237
	CT0090S	0,001749	0,000890		0,766599
			0,005592	0,001305	
Trigonometrisk	ST0081S	0,830357	-0,000375	0,829982	-0,243593
	ST0033V	0,001540	0,001216		?? 0,438604
			0,006511	0,003655	
Trigonometrisk	ST0081S	0,754811	-0,000603	0,754208	-0,393198
	ST0033H	0,001533	0,001214		?? 0,436285
			0,006500	0,003664	
Trigonometrisk	ST0081S	0,786188	0,000000	0,786188	?
	ST00084H	0,001420	0,001497		!! 0,000000
			?	?	
Trigonometrisk	ST0081S	2,228567	-0,001243	2,227324	-0,851542
	BT1170H	0,001460	0,001121		?? 0,469468
			0,005965	0,003164	
Trigonometrisk	NBT0100S	14,208176	-0,001576	14,206601	-0,820253
	BT0900V	0,001921	0,001405		?? 0,518909
			0,007467	0,003592	
Trigonometrisk	NBT0100S	8,909488	0,000020	8,909508	0,013142
	NBT0050V	0,001554	0,001282		?? 0,387569
			0,006991	0,004282	

**Höjdnätutjämnning, observationer**

Skapad: 2008-01-08

		Från punkt	Till punkt		
Max residual:	-0,004711	DT0425S	DT0615V		
Max BVH-kvot:	-2,593483	DT0015S	700		
Antal observationer:		343			
Typ	Från punkt	Värde	Residual	Utg värde	BVH-kvot
	Till punkt	Apr medelfel	Utg medelfel		Kontrollerbarhet
			MUF	YT	
Trigonometrisk	NBT0100S	8,855475	-0,000066	8,855408	-0,042999
	NBT0051H	0,001546	0,001279		?? 0,383821
			0,006987	0,004305	
Trigonometrisk	NBT0100S	-3,168889	-0,000200	-3,169090	-0,133632
	NBT0138H	0,001500	0,001191		?? 0,432494
			0,006386	0,003624	
Trigonometrisk	NBT0100S	-5,637196	-0,001086	-5,638281	-0,703851
	NBT0150S	0,001543	0,000918		?? 0,681225
			0,005234	0,001668	
Trigonometrisk	NBT0100S	-4,065402	-0,000116	-4,065518	-0,074702
	NBT0150H	0,001557	0,001181		?? 0,481667
			0,006280	0,003255	
Trigonometrisk	NBT0150S	5,639694	-0,001412	5,638281	-0,915360
	NBT0100S	0,001543	0,000918		?? 0,681225
			0,005234	0,001669	
Trigonometrisk	NBT0150S	2,469011	0,000181	2,469192	0,126923
	NBT0138H	0,001425	0,001173		?? 0,390153
			0,006386	0,003894	
Trigonometrisk	NBT0150S	1,572206	0,000558	1,572764	0,394140
	NBT0150H	0,001415	0,001114		?? 0,441862
			0,005961	0,003327	
Trigonometrisk	NBT0150S	-7,549095	-0,000299	-7,549394	-0,182089
	NBT0213V	0,001642	0,001465		!! 0,283359
			0,008638	0,006190	
Trigonometrisk	NBT0150S	-12,139636	0,000495	-12,139140	0,260549
	NBT0246H	0,001902	0,001562		?? 0,393188
			0,008492	0,005153	
Trigonometrisk	NBT0150S	-21,326108	-0,004203	-21,330311	-1,671306
	NBT0312H	0,002515	0,001670		?? 0,603028
			0,009068	0,003600	
Trigonometrisk	NBT0345S	23,853766	-0,003339	23,850427	-1,167079
	NBT0150S	0,002861	0,001340		0,802605
			0,008942	0,001765	
Trigonometrisk	NBT0345S	25,425115	-0,001924	25,423191	-0,666035
	NBT0150H	0,002889	0,001603		0,723107
			0,009514	0,002634	

**Höjdnätutjämnning, observationer**

Skapad: 2008-01-08

Max residual:	-0,004711	Från punkt	Till punkt
Max BVH-kvot:	-2,593483	DT0425S	DT0615V
		DT0015S	700

Antal observationer: 343

Typ	Från punkt	Värde	Residual	Utj värde	BVH-kvot
			Utj medelfel	Yt	Kontrollerbarhet
	Till punkt	Apr medelfel	MUF	YT	
Trigonometrisk	NBT0345S	16,300506	0,000528	16,301033	0,241858
	NBT0213V	0,002181	0,001626		?? 0,499907
			0,008638	0,004320	
Trigonometrisk	NBT0345S	11,711765	-0,000478	11,711287	-0,255961
	NBT0246H	0,001868	0,001551		?? 0,379462
			0,008492	0,005269	
Trigonometrisk	NBT0345S	2,518676	0,001441	2,520116	0,978538
	NBT0312H	0,001472	0,001382		!! 0,206719
			0,009068	0,007193	
Trigonometrisk	NBT0345S	0,782891	-0,000127	0,782763	-0,089430
	NBT0360H	0,001425	0,001193		?? 0,369762
			0,006564	0,004137	
Trigonometrisk	NBT0345S	-2,365980	-0,000259	-2,366239	-0,161551
	NBT0405V	0,001602	0,001258		?? 0,445212
			0,006721	0,003729	
Trigonometrisk	NBT0345S	-2,949721	-0,000546	-2,950267	-0,318511
	NBT0420H	0,001715	0,001312		?? 0,473515
			0,006977	0,003673	
Trigonometrisk	NBT0396S	1,646487	-0,000842	1,645645	-0,542351
	NBT0345S	0,001552	0,001022		?? 0,610067
			0,005565	0,002170	
Trigonometrisk	NBT0396S	2,428267	0,000142	2,428409	0,094318
	NBT0360H	0,001503	0,001216		?? 0,411287
			0,006564	0,003864	
Trigonometrisk	NBT0396S	-0,720796	0,000203	-0,720593	0,143153
	NBT0405V	0,001419	0,001207		!! 0,349581
			0,006721	0,004372	
Trigonometrisk	NBT0396S	-1,305015	0,000393	-1,304622	0,270124
	NBT0420H	0,001454	0,001245		!! 0,340575
			0,006977	0,004601	
Trigonometrisk	DT0047S	7,084398	-0,001803	7,082596	-1,173121
	DT0000V	0,001537	0,001004		?? 0,615412
			0,005484	0,002109	
Trigonometrisk	DT0047S	6,939757	-0,000340	6,939417	-0,222200
	DT0001H	0,001529	0,001059		?? 0,567874
			0,005681	0,002455	

**Höjdnätutjämnning, observationer**

Skapad: 2008-01-08

		Från punkt	Till punkt		
Max residual:	-0,004711	DT0425S	DT0615V		
Max BVH-kvot:	-2,593483	DT0015S	700		
Antal observationer:		343			
Typ	Från punkt	Värde	Residual	Utg värde	BVH-kvot
	Till punkt	Apr medelfel	Utg medelfel		Kontrollerbarhet
			MUF	YT	
Trigonometrisk	DT0047S	2,715878	0,000715	2,716593	0,503309
	DT0038V	0,001421	0,000933		?? 0,611420
			0,005087	0,001977	
Trigonometrisk	DT0047S	1,959879	-0,000415	1,959464	-0,293026
	DT0043H	0,001417	0,001135		?? 0,422120
			0,006107	0,003529	
Trigonometrisk	DT0047S	-1,820553	0,000121	-1,820432	0,083055
	DT0076H	0,001460	0,001152		?? 0,439037
			0,006168	0,003460	
Trigonometrisk	DT0047S	-2,231816	0,000611	-2,231206	0,415379
	DT0078V	0,001470	0,000938		?? 0,633293
			0,005173	0,001897	
Trigonometrisk	DT0047S	-6,346213	-0,001263	-6,347476	-0,811324
	DT0099S	0,001557	0,000781		0,773484
			0,004957	0,001123	
Trigonometrisk	DT0099S	9,065011	-0,000942	9,064069	-0,585496
	DT0038V	0,001608	0,001022		?? 0,636976
			0,005643	0,002049	
Trigonometrisk	DT0099S	6,348948	-0,001472	6,347476	-0,945506
	DT0047S	0,001557	0,000781		0,773483
			0,004957	0,001123	
Trigonometrisk	DT0099S	4,527164	-0,000119	4,527045	-0,082282
	DT0076H	0,001446	0,001150		?? 0,430906
			0,006168	0,003510	
Trigonometrisk	DT0099S	4,115744	0,000527	4,116271	0,365751
	DT0078V	0,001440	0,000917		?? 0,634916
			0,005059	0,001847	
Trigonometrisk	DT0099S	-1,021020	0,000653	-1,020366	0,453558
	DT0120H	0,001440	0,001032		?? 0,537663
			0,005498	0,002542	
Trigonometrisk	DT0099S	-1,193626	0,000000	-1,193626	?
	DT00121V	0,001443	0,001521		!! 0,000000
			?	?	
Trigonometrisk	DT0099S	-4,737935	-0,001106	-4,739041	-0,738306
	DT0138S	0,001498	0,000738		0,781462
			0,004745	0,001037	

## Höjdnätutjämnning, observationer

Skapad: 2008-01-08

		Från punkt	Till punkt		
Max residual:	-0,004711	DT0425S	DT0615V		
Max BVH-kvot:	-2,593483	DT0015S	700		
Antal observationer:		343			
Typ	Från punkt	Värde	Residual	Utg värde	BVH-kvot
	Till punkt	Apr medelfel	Utg medelfel		Kontrollerbarhet
			MUF	YT	
Trigonometrisk	DT0099S	-9,405694	-0,001266	-9,406961	-0,694576
	DT0190V	0,001823	0,001036		?? 0,709288
			0,006062	0,001762	
Trigonometrisk	DT0099S	-15,038888	-0,004180	-15,043068	-1,966659
	DT0225S	0,002125	0,000798		0,873034
			0,006369	0,000809	
Trigonometrisk	DT0138S	8,855914	-0,000602	8,855312	-0,376965
	DT0078V	0,001598	0,001021		?? 0,632325
			0,005627	0,002069	
Trigonometrisk	DT0138S	4,739940	-0,000899	4,739041	-0,600277
	DT0099S	0,001498	0,000738		0,781462
			0,004745	0,001037	
Trigonometrisk	DT0138S	3,718034	0,000641	3,718674	0,446515
	DT0120H	0,001435	0,001026		?? 0,540044
			0,005466	0,002514	
Trigonometrisk	DT0138S	3,545425	0,000000	3,545425	?
	DT0121V	0,001432	0,001509		!! 0,000000
			?	?	
Trigonometrisk	DT0138S	-4,667887	-0,000033	-4,667920	-0,020823
	DT0190V	0,001563	0,001002		?? 0,630101
			0,005512	0,002039	
Trigonometrisk	DT0138S	-5,264711	-0,000317	-5,265028	-0,199722
	DT0194H	0,001585	0,001109		?? 0,559125
			0,005935	0,002617	
Trigonometrisk	DT0138S	-10,302347	-0,001681	-10,304027	-0,937797
	DT0225S	0,001792	0,000764		0,836451
			0,005487	0,000897	
Trigonometrisk	DT0138S	-12,324231	0,000000	-12,324231	?
	DT0255H	0,002039	0,002149		!! 0,000000
			?	?	
Trigonometrisk	DT0225S	15,046610	-0,003542	15,043068	-1,666526
	DT0099S	0,002125	0,000798		0,873034
			0,006369	0,000809	
Trigonometrisk	DT0225S	14,025055	-0,002353	14,022702	-1,213826
	DT0120H	0,001938	0,001092		0,714493
			0,006421	0,001833	

## Höjdnätutjämnning, observationer

Skapad: 2008-01-08

Max residual:	-0,004711	Från punkt	DT0425S	Till punkt	DT0615V
Max BVH-kvot:	-2,593483		DT0015S		700

Antal observationer: 343

Typ	Från punkt	Värde	Residual	Utj värde	BVH-kvot
			Utj medelfel		Kontrollerbarhet
	Till punkt	Apr medelfel	MUF	YT	
Trigonometrisk	DT0225S	10,304254	-0,000227	10,304027	-0,126514
	DT0138S	0,001792	0,000764		0,836453
			0,005487	0,000897	
Trigonometrisk	DT0225S	5,634825	0,001282	5,636107	0,865241
	DT0190V	0,001482	0,000970		?? 0,614285
			0,005294	0,002042	
Trigonometrisk	DT0225S	5,037999	0,001000	5,038999	0,680478
	DT0194H	0,001469	0,001055		?? 0,535715
			0,005621	0,002610	
Trigonometrisk	DT0225S	-9,183248	-0,002151	-9,185399	-1,235074
	DT0305S	0,001741	0,000676		0,864235
			0,005245	0,000712	
Trigonometrisk	DT0225S	-7,609656	-0,000427	-7,610083	-0,245305
	DT0305V	0,001740	0,000941		0,736840
			0,005675	0,001494	
Trigonometrisk	DT0225S	15,045563	-0,002495	15,043068	-1,173948
	DT0099S	0,002125	0,000798		0,873034
			0,006369	0,000809	
Trigonometrisk	DT0225S	-2,022911	0,000068	-2,022842	0,046736
	DT0225H	0,001464	0,001168		?? 0,427266
			0,006271	0,003592	
Trigonometrisk	DT0225S	-9,182919	-0,002480	-9,185399	-1,424238
	DT0305S	0,001741	0,000676		0,864235
			0,005245	0,000712	
Trigonometrisk	DT0305S	19,492169	-0,002743	19,489426	-1,079136
	DT0138S	0,002542	0,000907		0,885396
			0,007564	0,000867	
Trigonometrisk	DT0305S	14,822286	-0,000779	14,821506	-0,384389
	DT0190V	0,002028	0,001064		0,752037
			0,006546	0,001623	
Trigonometrisk	DT0305S	14,225736	-0,001338	14,224398	-0,671462
	DT0194H	0,001992	0,001134		?? 0,708287
			0,006627	0,001933	
Trigonometrisk	DT0305S	9,187178	-0,001779	9,185399	-1,021487
	DT0225S	0,001741	0,000676		0,864236
			0,005245	0,000712	

**Höjdnätutjämnning, observationer**

Skapad: 2008-01-08

		Från punkt	Till punkt		
Max residual:	-0,004711	DT0425S	DT0615V		
Max BVH-kvot:	-2,593483	DT0015S	700		
Antal observationer:		343			
Typ	Från punkt	Värde	Residual	Utg värde	BVH-kvot
	Till punkt	Apr medelfel	Utg medelfel		Kontrollerbarhet
			MUF	YT	
Trigonometrisk	DT0305S	7,162634	-0,000077	7,162557	-0,049666
	DT0225H	0,001556	0,001180		?? 0,482527
			0,006271	0,003245	
Trigonometrisk	DT0305S	1,574871	0,000445	1,575316	0,314614
	DT0305V	0,001416	0,000780		0,726617
			0,004650	0,001271	
Trigonometrisk	DT0305S	-0,043461	-0,000834	-0,044295	-0,582019
	BT0278S	0,001432	0,000742		0,758469
			0,004605	0,001112	
Trigonometrisk	DT0305S	9,187180	-0,001781	9,185399	-1,022716
	DT0225S	0,001741	0,000676		0,864236
			0,005245	0,000712	
Trigonometrisk	DT0305S	1,574902	0,000414	1,575316	0,292600
	DT0305V	0,001416	0,000780		0,726617
			0,004650	0,001271	
Trigonometrisk	DT0305S	1,094503	-0,000921	1,093581	-0,637602
	BT0278H	0,001445	0,000997		?? 0,571500
			0,005352	0,002293	
Trigonometrisk	DT0305S	-4,805937	0,000019	-4,805917	0,011895
	DT0368V	0,001617	0,001213		?? 0,493515
			0,006443	0,003263	
Trigonometrisk	DT0305S	-5,088283	0,000029	-5,088254	0,018104
	DT0369H	0,001619	0,001213		?? 0,494699
			0,006444	0,003256	
Trigonometrisk	DT0305S	-11,920770	-0,002844	-11,923613	-1,375315
	DT0425S	0,002068	0,000898		0,830229
			0,006354	0,001079	
Trigonometrisk	DT0305S	-16,623727	-0,004472	-16,628198	-1,510573
	DT0513V	0,002960	0,001275		0,833111
			0,009081	0,001516	
Trigonometrisk	DT0425S	11,926043	-0,002430	11,923613	-1,175040
	DT0305S	0,002068	0,000898		0,830227
			0,006354	0,001079	
Trigonometrisk	DT0425S	13,502233	-0,003304	13,498930	-1,597517
	DT0305V	0,002068	0,001080		0,754418
			0,006666	0,001637	



**Höjdnätutjämnning, observationer**

Skapad: 2008-01-08

	Från punkt	Till punkt			
Max residual:	-0,004711	DT0425S	DT0615V		
Max BVH-kvot:	-2,593483	DT0015S	700		
Antal observationer: 343					
Typ	Från punkt	Värde	Residual	Utg värde	BVH-kvot
	Till punkt	Apr medelfel	Utg medelfel		Kontrollerbarhet
			MUF	YT	
Trigonometrisk	DT0425S	7,116513	0,001183	7,117696	0,743081
	DT0368V	0,001592	0,001189		?? 0,498094
			0,006315	0,003169	
Trigonometrisk	DT0425S	6,834062	0,001297	6,835359	0,815691
	DT0369H	0,001590	0,001188		?? 0,497342
			0,006312	0,003173	
Trigonometrisk	DT0425S	-4,705083	0,000498	-4,704585	0,278703
	DT0513V	0,001788	0,001149		?? 0,628387
			0,006316	0,002347	
Trigonometrisk	DT0425S	-4,784290	0,000044	-4,784247	0,024407
	DT0513H	0,001788	0,001208		?? 0,589274
			0,006521	0,002678	
Trigonometrisk	DT0425S	-7,381357	-0,003558	-7,384915	-1,641948
	DT0556S	0,002167	0,000925		0,835955
			0,006635	0,001088	
Trigonometrisk	DT0425S	-7,497087	-0,004711	-7,501798	-1,704581
	DT0615V	0,002763	0,001174		0,837595
			0,008455	0,001373	
Trigonometrisk	DT0556S	14,506221	-0,003611	14,502611	-1,308485
	DT0368V	0,002759	0,001349		0,785045
			0,008720	0,001874	
Trigonometrisk	DT0556S	14,224251	-0,003977	14,220274	-1,444023
	DT0369H	0,002754	0,001348		0,784443
			0,008708	0,001877	
Trigonometrisk	DT0556S	7,389144	-0,004229	7,384915	-1,951937
	DT0425S	0,002167	0,000925		0,835956
			0,006635	0,001088	
Trigonometrisk	DT0556S	2,600344	0,000324	2,600668	0,213537
	DT0513H	0,001519	0,001120		?? 0,510567
			0,005952	0,002913	
Trigonometrisk	DT0556S	2,679396	0,000933	2,680330	0,615440
	DT0513V	0,001517	0,001083		?? 0,540957
			0,005774	0,002650	
Trigonometrisk	DT0556S	-1,597298	0,001095	-1,596203	0,690229
	DT0614S	0,001587	0,000825		0,756837
			0,005107	0,001242	

**Höjdnätutjämnning, observationer**

Skapad: 2008-01-08

		Från punkt	Till punkt		
Max residual:	-0,004711	DT0425S	DT0615V		
Max BVH-kvot:	-2,593483	DT0015S	700		
Antal observationer:		343			
Typ	Från punkt	Värde	Residual	Utg värde	BVH-kvot
	Till punkt	Apr medelfel	Utg medelfel		Kontrollerbarhet
			MUF	YT	
Trigonometrisk	DT0556S	-0,116288	-0,000595	-0,116883	-0,373651
	DT0615V	0,001593	0,001007		?? 0,640143
			0,005575	0,002006	
Trigonometrisk	BT0814S	14,878329	-0,001493	14,876836	-0,567483
	BT0637V	0,002631	0,001356		0,760874
			0,008444	0,002019	
Trigonometrisk	BT0814S	9,308995	-0,001921	9,307075	-0,897413
	BT0685S	0,002140	0,000956		0,820532
			0,006616	0,001187	
Trigonometrisk	BT0814S	3,931686	0,000618	3,932304	0,385089
	BT0754H	0,001605	0,001169		?? 0,522301
			0,006219	0,002971	
Trigonometrisk	BT0814S	3,394810	0,000531	3,395341	0,331213
	BT0754V	0,001604	0,001300		?? 0,409189
			0,007020	0,004148	
Trigonometrisk	BT0814S	2,323277	0,000579	2,323856	0,408079
	BT0806H	0,001419	0,001020		?? 0,534515
			0,005434	0,002530	
Trigonometrisk	BT0814S	0,842042	-0,000929	0,841113	-0,638230
	TT0024S	0,001455	0,000905		?? 0,651570
			0,005047	0,001759	
Trigonometrisk	BT0814S	6,400375	-0,000843	6,399532	-0,400463
	TT0120H	0,002105	0,001557		?? 0,507726
			0,008273	0,004073	
Trigonometrisk	BT0814S	-0,891179	0,000190	-0,890989	0,126025
	BT0855V	0,001510	0,001112		?? 0,511899
			0,005908	0,002884	
Trigonometrisk	BT0814S	-1,498933	-0,000184	-1,499117	-0,121257
	BT0856H	0,001516	0,001197		?? 0,438881
			0,006409	0,003596	
Trigonometrisk	BT0814S	-5,608279	-0,003271	-5,611549	-1,836162
	BT0897S	0,001781	0,000792		0,822037
			0,005501	0,000979	
Trigonometrisk	BT0814S	-3,499227	-0,001020	-3,500247	-0,546317
	BT0909H	0,001867	0,001152		?? 0,657796
			0,006447	0,002206	

**Höjdnätutjämnning, observationer**

Skapad: 2008-01-08

		Från punkt	Till punkt		
Max residual:	-0,004711	DT0425S	DT0615V		
Max BVH-kvot:	-2,593483	DT0015S	700		
Antal observationer:		343			
Typ	Från punkt	Värde	Residual	Ujt värde	BVH-kvot
	Till punkt	Apr medelfel	Ujt medelfel		Kontrollerbarhet
			MUF	YT	
Trigonometrisk	TT0024S	1,483007	-0,000264	1,482743	-0,179521
	BT0806H	0,001473	0,001111		?? 0,488134
			0,005904	0,003022	
Trigonometrisk	TT0024S	-0,840040	-0,001073	-0,841113	-0,737700
	BT0814S	0,001455	0,000905		?? 0,651570
			0,005047	0,001759	
Trigonometrisk	TT0024S	3,083464	0,000000	3,083464	?
	TT0054H	0,001464	0,001543		!! 0,000000
			?	?	
Trigonometrisk	TT0024S	4,820280	0,000000	4,820280	?
	TT0088H	0,001636	0,001725		!! 0,000000
			?	?	
Trigonometrisk	TT0024S	5,557756	0,000663	5,558419	0,355048
	TT0120H	0,001867	0,001525		?? 0,399099
			0,008273	0,004971	
Trigonometrisk	BT0897S	9,544629	-0,000775	9,543854	-0,334028
	BT0754H	0,002321	0,001277		0,727782
			0,007618	0,002074	
Trigonometrisk	BT0897S	7,935966	-0,000561	7,935405	-0,304964
	BT0806H	0,001840	0,001156		?? 0,644802
			0,006416	0,002279	
Trigonometrisk	BT0897S	5,612941	-0,001391	5,611549	-0,781040
	BT0814S	0,001781	0,000792		0,822037
			0,005501	0,000979	
Trigonometrisk	BT0897S	4,719662	0,000899	4,720561	0,590818
	BT0855V	0,001521	0,001135		?? 0,498641
			0,006031	0,003024	
Trigonometrisk	BT0897S	4,112249	0,000184	4,112433	0,121168
	BT0856H	0,001515	0,001197		?? 0,438242
			0,006409	0,003600	
Trigonometrisk	BT0897S	2,109707	0,001595	2,111303	1,122662
	BT0909H	0,001421	0,001025		?? 0,531739
			0,005457	0,002555	
Trigonometrisk	BT0897S	-11,895962	-0,001547	-11,897510	-0,831039
	NBT0100S	0,001862	0,001120		?? 0,674070
			0,006350	0,002070	



Höjdnätutjämnning, observationer						Skapad: 2008-01-08
Max residual:		-0,004711	Från punkt	DT0425S	Till punkt	DT0615V
Max BVH-kvot:		-2,593483		DT0015S		700
Antal observationer:		343				
Typ	Från punkt	Värde	Residual	Utj värde	BVH-kvot	
	Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet	
			MUF	YT		
Trigonometrisk	BT0963S	-1,688283	-0,001047	-1,689331	-0,708317	
	BT0930V	0,001478	0,001161		?? 0,444720	
			0,006207	0,003447		
Trigonometrisk	BT0963S	1,238181	0,001301	1,239482	0,917623	
	BT0962H	0,001418	0,000984		?? 0,566127	
			0,005277	0,002289		
Trigonometrisk	BT0963S	3,238575	0,002190	3,240766	1,527208	
	BT0982V	0,001434	0,001038		?? 0,529003	
			0,005521	0,002601		
Trigonometrisk	BT0963S	4,073927	-0,000152	4,073775	-0,104552	
	BT0991H	0,001455	0,001201		?? 0,386399	
			0,006554	0,004022		
Trigonometrisk	BT0963S	5,581205	0,000114	5,581320	0,075462	
	BT1008V	0,001516	0,001209		?? 0,428033	
			0,006488	0,003711		
Trigonometrisk	BT0963S	0,350078	-0,002084	0,347994	-1,456769	
	DT0988S	0,001431	0,000824		?? 0,701561	
			0,004783	0,001427		
Trigonometrisk	BT0963S	8,151247	-0,000337	8,150910	-0,182614	
	BT1059S	0,001847	0,000793		0,834084	
			0,005662	0,000939		
Trigonometrisk	BT0963S	8,151182	-0,000272	8,150910	-0,147464	
	BT1059S	0,001847	0,000793		0,834084	
			0,005662	0,000939		
Trigonometrisk	BT1059S	-8,148504	-0,002406	-8,150910	-1,302832	
	BT0963S	0,001847	0,000793		0,834084	
			0,005662	0,000939		
Trigonometrisk	BT1059S	-4,910358	0,000214	-4,910144	0,124809	
	BT0982V	0,001718	0,001143		?? 0,601386	
			0,006202	0,002472		
Trigonometrisk	BT1059S	-4,077330	0,000196	-4,077135	0,118534	
	BT0991H	0,001650	0,001234		?? 0,496654	
			0,006554	0,003299		
Trigonometrisk	BT1059S	-2,569469	-0,000121	-2,569590	-0,077567	
	BT1008V	0,001558	0,001216		?? 0,452244	
			0,006488	0,003554		

**Höjdnätutjämnning, observationer**

Skapad: 2008-01-08

		Från punkt	Till punkt		
Max residual:	-0,004711	DT0425S	DT0615V		
Max BVH-kvot:	-2,593483	DT0015S	700		
Antal observationer:		343			
Typ	Från punkt	Värde	Residual	Utg värde	BVH-kvot
	Till punkt	Apr medelfel	Utg medelfel		Kontrollerbarhet
			MUF	YT	
Trigonometrisk	BT1059S	0,007941	0,000000	0,007941	?
	816	0,001419	0,001496		!! 0,000000
			?	?	
Trigonometrisk	BT1059S	1,682399	0,000000	1,682399	?
	817	0,001471	0,001550		!! 0,000000
			?	?	
Trigonometrisk	BT1059S	0,278945	-0,000241	0,278704	-0,166545
	BT1085V	0,001450	0,001140		?? 0,444025
			0,006093	0,003387	
Trigonometrisk	BT1059S	0,067486	0,000646	0,068132	0,442596
	BT1087H	0,001460	0,001049		?? 0,535874
			0,005585	0,002592	
Trigonometrisk	BT1059S	-1,956830	-0,000092	-1,956921	-0,061664
	BT1095S	0,001486	0,000769		0,759242
			0,004777	0,001150	
Trigonometrisk	BT1059S	-1,584410	0,000182	-1,584228	0,118288
	BT1106H	0,001535	0,001061		?? 0,570172
			0,005694	0,002447	
Trigonometrisk	BT1095S	1,957381	-0,000460	1,956921	-0,309427
	BT1059S	0,001486	0,000769		0,759242
			0,004777	0,001150	
Trigonometrisk	BT1095S	2,235393	0,000232	2,235625	0,163320
	BT1085V	0,001422	0,001135		?? 0,426994
			0,006093	0,003491	
Trigonometrisk	BT1095S	2,024829	0,000224	2,025053	0,157711
	BT1087H	0,001419	0,001004		?? 0,549918
			0,005359	0,002412	
Trigonometrisk	BT1095S	0,372563	0,000131	0,372693	0,091826
	BT1106H	0,001423	0,001001		?? 0,554729
			0,005349	0,002382	
Trigonometrisk	BT1095S	-2,610902	0,000080	-2,610822	0,052384
	BT1139H	0,001525	0,001184		?? 0,457944
			0,006311	0,003421	
Trigonometrisk	BT1095S	-3,735836	0,000409	-3,735427	0,258967
	BT1149V	0,001578	0,001196		?? 0,483272
			0,006356	0,003285	

Höjdnätutjämnning, observationer						Skapad: 2008-01-08
			Från punkt	Till punkt		
Max residual:	-0,004711		DT0425S	DT0615V		
Max BVH-kvot:	-2,593483		DT0015S	700		
Antal observationer:		343				
Typ	Från punkt	Värde	Residual	Utg värde	BVH-kvot	
	Till punkt	Apr medelfel	Utg medelfel		Kontrollerbarhet	
			MUF	YT		
Trigonometrisk	BT1095S	-3,728642	-0,000252	-3,728894	-0,146601	
	BT1170H	0,001720	0,001101		?? 0,631582	
			0,006060	0,002233		
Trigonometrisk	BT1095S	-5,194417	-0,002251	-5,196668	-1,308288	
	BT1170S	0,001721	0,000756		0,826195	
			0,005301	0,000921		
Trigonometrisk	BT1170S	7,223049	-0,001328	7,221721	-0,741644	
	BT1087H	0,001790	0,001096		?? 0,662487	
			0,006159	0,002079		
Trigonometrisk	BT1170S	5,198217	-0,001549	5,196668	-0,900418	
	BT1095S	0,001721	0,000756		0,826195	
			0,005301	0,000921		
Trigonometrisk	BT1170S	5,569748	-0,000387	5,569361	-0,234135	
	BT1106H	0,001654	0,001077		?? 0,618468	
			0,005888	0,002247		
Trigonometrisk	BT1170S	2,585920	-0,000075	2,585845	-0,050624	
	BT1139H	0,001474	0,001176		?? 0,427685	
			0,006311	0,003612		
Trigonometrisk	BT1170S	1,461582	-0,000342	1,461241	-0,236839	
	BT1149V	0,001443	0,001174		?? 0,404212	
			0,006356	0,003787		
Trigonometrisk	BT1170S	1,466435	0,001339	1,467774	0,946382	
	BT1170H	0,001415	0,001025		?? 0,527936	
			0,005454	0,002575		
Trigonometrisk	BT1170S	-0,757548	-0,002002	-0,759550	-1,381811	
	ST0081S	0,001449	0,001012		?? 0,560871	
			0,005417	0,002379		
Trigonometrisk	BT1170S	0,023307	0,001668	0,024975	1,156681	
	ST0084H	0,001442	0,001257		!! 0,315302	
			0,007189	0,004922		
Trigonometrisk	1001	2,829371	-0,002599	2,826773	-1,057397	
	SW1003	0,002458	0,000958		0,863112	
			0,007407	0,001014		
Trigonometrisk	1001	1,813148	-0,004545	1,808603	-1,452563	
	SW1006	0,003129	0,001339		0,835211	
			0,009587	0,001580		

**Höjdnätutjämnning, observationer**

Skapad: 2008-01-08

		Från punkt	Till punkt		
Max residual:	-0,004711	DT0425S	DT0615V		
Max BVH-kvot:	-2,593483	DT0015S	700		
Antal observationer:		343			
Typ	Från punkt	Värde	Residual	Utg värde	BVH-kvot
	Till punkt	Apr medelfel	Utg medelfel		Kontrollerbarhet
			MUF	YT	
Trigonometrisk	1001	2,003985	-0,000985	2,003000	-0,536457
	SW1007	0,001836	0,000000		1,000000
			0,005142	0,000000	
Trigonometrisk	SW1007	0,824998	-0,001225	0,823773	-0,745241
	SW1003	0,001644	0,000958		?? 0,694123
			0,005525	0,001690	
Trigonometrisk	SW1007	-0,190156	-0,004242	-0,194397	-1,491092
	SW1006	0,002845	0,001339		0,800603
			0,008902	0,001775	
Trigonometrisk	SW1007	-2,000395	-0,002605	-2,003000	-1,418677
	1001	0,001836	0,000000		1,000000
			0,005142	0,000000	
Trigonometrisk	SW1006	0,188192	-0,002877	0,185315	-0,995184
	SW1001	0,002891	0,001505		0,756220
			0,009309	0,002269	
Trigonometrisk	SW1006	0,198565	-0,004168	0,194397	-1,465035
	SW1007	0,002845	0,001339		0,800603
			0,008902	0,001775	
Trigonometrisk	SW1006	-1,804036	-0,004566	-1,808603	-1,459315
	1001	0,003129	0,001339		0,835211
			0,009587	0,001580	
Trigonometrisk	SW1001	-4,093993	-0,002264	-4,096257	-1,207753
	700	0,001874	0,000788		0,840913
			0,005723	0,000910	
Trigonometrisk	SW1001	-6,005168	-0,001590	-6,006758	-0,809335
	SW1000	0,001964	0,000821		0,842703
			0,005991	0,000942	
Trigonometrisk	SW1001	-6,145070	-0,000251	-6,145320	-0,124882
	SW1002	0,002006	0,001073		0,742551
			0,006519	0,001678	
Trigonometrisk	SW1001	0,834621	-0,001766	0,832855	-0,785918
	SW1003	0,002247	0,000909		0,852755
			0,006813	0,001003	
Trigonometrisk	SW1001	-0,182497	-0,002819	-0,185315	-0,974942
	SW1006	0,002891	0,001505		0,756220
			0,009309	0,002269	



**Höjdnätutjämnning, observationer**

Skapad: 2008-01-08

		Från punkt	Till punkt		
Max residual:	-0,004711	DT0425S	DT0615V		
Max BVH-kvot:	-2,593483	DT0015S	700		
Antal observationer:		343			
Typ	Från punkt	Värde	Residual	Utg värde	BVH-kvot
	Till punkt	Apr medelfel	Utg medelfel		Kontrollerbarhet
			MUF	YT	
Trigonometrisk	SW1003	-4,926873	-0,002238	-4,929112	-1,423468
	700	0,001572	0,000785		0,775389
			0,005000	0,001123	
Trigonometrisk	SW1003	-6,838369	-0,001243	-6,839612	-0,824122
	SW1000	0,001509	0,000787		0,755283
			0,004861	0,001190	
Trigonometrisk	SW1003	-0,830763	-0,002092	-0,832855	-0,930925
	SW1001	0,002247	0,000909		0,852755
			0,006813	0,001003	
Trigonometrisk	SW1003	-0,821975	-0,001797	-0,823773	-1,093195
	SW1007	0,001644	0,000958		?? 0,694126
			0,005525	0,001690	
Trigonometrisk	SW1003	-2,825410	-0,001363	-2,826773	-0,554481
	1001	0,002458	0,000958		0,863112
			0,007407	0,001014	
Trigonometrisk	700	-10,215334	-0,000260	-10,215594	-0,153748
	BT0000H	0,001688	0,001078		?? 0,632889
			0,005943	0,002182	
Trigonometrisk	700	-12,273552	-0,001437	-12,274989	-0,785586
	BT0018H	0,001829	0,001124		?? 0,660333
			0,006302	0,002141	
Trigonometrisk	700	4,097760	-0,001504	4,096257	-0,802135
	SW1001	0,001874	0,000788		0,840915
			0,005723	0,000910	
Trigonometrisk	700	-1,909752	-0,000749	-1,910501	-0,524970
	SW1000	0,001426	0,000584		0,849105
			0,004334	0,000654	
Trigonometrisk	700	-2,050177	0,001114	-2,049063	0,773866
	SW1002	0,001440	0,000931		?? 0,623478
			0,005106	0,001922	
Trigonometrisk	700	4,930631	-0,001520	4,929112	-0,966438
	SW1003	0,001572	0,000785		0,775387
			0,005000	0,001123	
Trigonometrisk	700	-10,019085	0,000453	-10,018633	0,268375
	DT0000V	0,001687	0,000955		0,711720
			0,005601	0,001615	

## Höjdnätutjämnning, observationer

Skapad: 2008-01-08

Typ	Från punkt	Värde	Residual	Utg värde	BVH-kvot
	Till punkt	Apr medelfel	Utg medelfel		Kontrollerbarhet
			MUF	YT	
Max residual:	-0,004711				
Max BVH-kvot:	-2,593483				
			Från punkt	Till punkt	
			DT0425S	DT0615V	
			DT0015S	700	
Antal observationer: 343					
Trigonometrisk	700	-14,383392	-0,001243	-14,384635	-0,624855
	DT0038V	0,001989	0,001069		0,740135
			0,006472	0,001682	
Trigonometrisk	700	-13,198877	-0,001148	-13,200025	-0,639058
	DT0015S	0,001797	0,000799		0,822064
			0,005549	0,000987	
Trigonometrisk	700	-10,161852	0,000040	-10,161811	0,023855
	DT0001H	0,001697	0,001094		?? 0,626132
			0,006005	0,002245	
Trigonometrisk	700	4,097896	-0,001639	4,096257	-0,874453
	SW1001	0,001874	0,000788		0,840915
			0,005723	0,000910	
Trigonometrisk	700	-8,244214	-0,000269	-8,244483	-0,167616
	SW1004	0,001606	0,001211		?? 0,488010
			0,006435	0,003295	
Trigonometrisk	700	-7,143606	-0,000275	-7,143881	-0,173010
	SW1005	0,001588	0,001207		?? 0,480448
			0,006416	0,003333	
Trigonometrisk	DT0015S	13,204685	?? -0,004660	13,200025	?? -2,593483
	700	0,001797	0,000799		0,822066
			0,005549	0,000987	
Trigonometrisk	DT0015S	3,180633	0,000759	3,181392	0,531675
	DT0000V	0,001428	0,000936		?? 0,612984
			0,005107	0,001976	
Trigonometrisk	DT0015S	3,037946	0,000267	3,038214	0,187366
	DT0001H	0,001427	0,001013		?? 0,546895
			0,005404	0,002449	
Trigonometrisk	DT0015S	-1,185287	0,000677	-1,184610	0,468269
	DT0038V	0,001446	0,000954		?? 0,608187
			0,005190	0,002034	
Trigonometrisk	DT0015S	-1,942181	0,000442	-1,941739	0,302273
	DT0043H	0,001462	0,001144		?? 0,449180
			0,006107	0,003364	
Trigonometrisk	DT0015S	-6,131617	-0,000792	-6,132409	-0,488005
	DT0078V	0,001623	0,001022		?? 0,642778
			0,005667	0,002025	

**Höjdnätutjämnning, observationer**

Skapad: 2008-01-08

		Från punkt	Till punkt		
Max residual:	-0,004711	DT0425S	DT0615V		
Max BVH-kvot:	-2,593483	DT0015S	700		
Antal observationer:		343			
Typ	Från punkt	Värde	Residual	Utj värde	BVH-kvot
	Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet
			MUF	YT	
Trigonometrisk	DT0015S	-3,900474	-0,000729	-3,901203	-0,494749
	DT0047S	0,001474	0,000770		0,754497
			0,004751	0,001166	
Trigonometrisk	SW1000	-8,305313	0,000221	-8,305093	0,136468
	BT0000H	0,001617	0,001065		?? 0,609711
			0,005798	0,002263	
Trigonometrisk	SW1000	-10,363364	-0,001123	-10,364488	-0,643633
	BT0018H	0,001746	0,001109		?? 0,636464
			0,006126	0,002227	
Trigonometrisk	SW1000	-13,696275	-0,002803	-13,699078	-1,487937
	BT0035S	0,001884	0,000957		0,767840
			0,006020	0,001398	
Trigonometrisk	SW1000	-8,108751	0,000619	-8,108132	0,379038
	DT0000V	0,001633	0,000985		?? 0,672707
			0,005575	0,001825	
Trigonometrisk	SW1000	-11,287452	-0,002072	-11,289524	-1,195643
	DT0015S	0,001733	0,000867		0,774708
			0,005514	0,001242	
Trigonometrisk	SW1000	-6,334230	0,000248	-6,333982	0,160963
	SW1004	0,001542	0,001205		?? 0,450040
			0,006435	0,003539	
Trigonometrisk	SW1000	-5,233641	0,000261	-5,233380	0,168773
	SW1005	0,001549	0,001203		?? 0,457201
			0,006416	0,003483	
Trigonometrisk	SW1000	6,841680	-0,002068	6,839612	-1,370645
	SW1003	0,001509	0,000787		0,755283
			0,004861	0,001190	
Trigonometrisk	SW1000	-0,139841	0,001279	-0,138562	0,897980
	SW1002	0,001424	0,000929		?? 0,616791
			0,005077	0,001946	
Trigonometrisk	SW1000	6,007347	-0,000589	6,006758	-0,299827
	SW1001	0,001964	0,000821		0,842704
			0,005991	0,000942	
Trigonometrisk	SW1000	1,909641	0,000860	1,910501	0,602917
	700	0,001426	0,000584		0,849105
			0,004334	0,000654	

**Höjdnätutjämnning, observationer**

Skapad: 2008-01-08

		Från punkt	Till punkt		
Max residual:	-0,004711	DT0425S	DT0615V		
Max BVH-kvot:	-2,593483	DT0015S	700		
Antal observationer:		343			
Typ	Från punkt	Värde	Residual	Utg värde	BVH-kvot
	Till punkt	Apr medelfel	Utg medelfel		Kontrollerbarhet
			MUF	YT	
Trigonometrisk	BT0035S	13,564267	?? -0,003751	13,560516	?? -2,036570
	SW1002	0,001842	0,001139		?? 0,655670
			0,006368	0,002193	
Trigonometrisk	BT0035S	5,393971	0,000015	5,393985	0,009927
	BT0000H	0,001490	0,001126		?? 0,486469
			0,005982	0,003072	
Trigonometrisk	BT0035S	3,332951	0,001640	3,334590	1,144061
	BT0018H	0,001433	0,001126		?? 0,444198
			0,006021	0,003347	
Trigonometrisk	BT0035S	-0,331394	0,000405	-0,330990	0,283707
	BT0047V	0,001426	0,001150		?? 0,414262
			0,006203	0,003634	
Trigonometrisk	BT0035S	-2,054521	-0,000393	-2,054914	-0,270676
	BT0059H	0,001451	0,001152		?? 0,433251
			0,006173	0,003499	
Trigonometrisk	BT0035S	-5,124777	-0,002164	-5,126941	-1,404523
	BT0082S	0,001541	0,000798		0,758763
			0,004953	0,001195	
Trigonometrisk	BT0035S	-8,217605	-0,000425	-8,218030	-0,260034
	BT0099V	0,001635	0,001114		?? 0,582322
			0,005998	0,002505	
Trigonometrisk	BT0082S	5,128292	-0,001352	5,126941	-0,877109
	BT0035S	0,001541	0,000798		0,758763
			0,004953	0,001195	
Trigonometrisk	BT0082S	4,796391	-0,000440	4,795951	-0,295973
	BT0047V	0,001488	0,001162		?? 0,450855
			0,006203	0,003407	
Trigonometrisk	BT0082S	3,071637	0,000390	3,072027	0,269752
	BT0059H	0,001446	0,001151		?? 0,430299
			0,006173	0,003517	
Trigonometrisk	BT0082S	-3,091934	0,000845	-3,091089	0,589283
	BT0099V	0,001434	0,001038		?? 0,528583
			0,005521	0,002603	
Trigonometrisk	BT0082S	-5,328221	-0,000430	-5,328651	-0,289896
	BT0117H	0,001482	0,001218		?? 0,391727
			0,006629	0,004032	

## Höjdnätutjämnning, observationer

Skapad: 2008-01-08

		Från punkt	Till punkt		
Max residual:	-0,004711	DT0425S	DT0615V		
Max BVH-kvot:	-2,593483	DT0015S	700		
Antal observationer:		343			
Typ	Från punkt	Värde	Residual	Ujt värde	BVH-kvot
	Till punkt	Apr medelfel	Ujt medelfel		Kontrollerbarhet
			MUF	YT	
Trigonometrisk	BT0082S	-13,644539	-0,002504	-13,647043	-1,339127
	BT0180S	0,001870	0,000862		0,808698
			0,005822	0,001114	
Trigonometrisk	BT0082S	-17,057899	-0,001008	-17,058907	-0,488991
	BT0202V	0,002061	0,001223		?? 0,683184
			0,006980	0,002211	
Trigonometrisk	BT0082S	-18,333248	-0,001986	-18,335235	-0,921188
	BT0212H	0,002156	0,001238		?? 0,703464
			0,007198	0,002135	
Trigonometrisk	BT0180S	13,649964	-0,002921	13,647043	-1,562210
	BT0082S	0,001870	0,000862		0,808698
			0,005822	0,001114	
Trigonometrisk	BT0180S	10,556720	-0,000766	10,555954	-0,439357
	BT0099V	0,001744	0,001152		?? 0,607484
			0,006265	0,002459	
Trigonometrisk	BT0180S	8,317877	0,000515	8,318392	0,317455
	BT0117H	0,001623	0,001245		?? 0,469745
			0,006629	0,003515	
Trigonometrisk	BT0180S	-3,412407	0,000543	-3,411864	0,376244
	BT0202V	0,001443	0,001088		?? 0,488676
			0,005782	0,002956	
Trigonometrisk	BT0180S	-4,689323	0,001131	-4,688192	0,766590
	BT0212H	0,001476	0,001098		?? 0,501928
			0,005833	0,002905	
Trigonometrisk	BT0180S	-12,199381	-0,000647	-12,200028	-0,342728
	BT0278H	0,001888	0,001096		?? 0,696370
			0,006334	0,001923	
Trigonometrisk	BT0180S	-13,335638	-0,002267	-13,337904	-1,202604
	BT0278S	0,001885	0,000829		0,825750
			0,005807	0,001012	
Trigonometrisk	BT0180S	-18,339439	-0,002091	-18,341531	-0,832838
	BT0344H	0,002511	0,001267		0,770962
			0,008008	0,001834	
Trigonometrisk	BT0180S	-19,625059	-0,001437	-19,626496	-0,569556
	BT0345V	0,002524	0,001268		0,772650
			0,008039	0,001828	

## Höjdnätutjämnning, observationer

Skapad: 2008-01-08

		Från punkt	Till punkt		
Max residual:	-0,004711	DT0425S	DT0615V		
Max BVH-kvot:	-2,593483	DT0015S	700		
Antal observationer:		343			
Typ	Från punkt	Värde	Residual	Utg värde	BVH-kvot
	Till punkt	Apr medelfel	Utg medelfel		Kontrollerbarhet
			MUF	YT	
Trigonometrisk	BT0278S	13,340649	-0,002744	13,337904	-1,456055
	BT0180S	0,001885	0,000829		0,825749
			0,005807	0,001012	
Trigonometrisk	BT0278S	9,926109	-0,000069	9,926040	-0,040056
	BT0202V	0,001716	0,001166		?? 0,584505
			0,006283	0,002611	
Trigonometrisk	BT0278S	8,649962	-0,000250	8,649712	-0,151701
	BT0212H	0,001646	0,001159		?? 0,554211
			0,006192	0,002760	
Trigonometrisk	BT0278S	1,136230	0,001647	1,137877	1,162326
	BT0278H	0,001417	0,000938		?? 0,605326
			0,005098	0,002012	
Trigonometrisk	BT0278S	1,618601	0,001010	1,619611	0,699530
	DT0305V	0,001444	0,000925		?? 0,630754
			0,005090	0,001879	
Trigonometrisk	BT0278S	0,047654	?? -0,003359	0,044295	?? -2,344979
	DT0305S	0,001432	0,000742		0,758473
			0,004605	0,001112	
Trigonometrisk	BT0278S	-5,004035	0,000409	-5,003626	0,249050
	BT0344H	0,001642	0,001110		?? 0,588706
			0,005992	0,002465	
Trigonometrisk	BT0278S	-6,289207	0,000615	-6,288592	0,372920
	BT0345V	0,001650	0,001111		?? 0,591416
			0,006006	0,002454	
Trigonometrisk	BT0278S	-12,454391	-0,002686	-12,457077	-1,286779
	BT0401S	0,002088	0,000886		0,837980
			0,006386	0,001035	
Trigonometrisk	BT0278S	-15,218744	-0,002249	-15,220993	-0,861035
	BT0452H	0,002612	0,001222		0,803083
			0,008161	0,001607	
Trigonometrisk	BT0401S	12,460320	-0,003243	12,457077	-1,553184
	BT0278S	0,002088	0,000886		0,837979
			0,006386	0,001035	
Trigonometrisk	BT0401S	13,595814	-0,000860	13,594954	-0,412447
	BT0278H	0,002086	0,001139		0,731728
			0,006828	0,001832	

**Höjdnätutjämnning, observationer**

Skapad: 2008-01-08

		Från punkt	Till punkt		
Max residual:	-0,004711	DT0425S	DT0615V		
Max BVH-kvot:	-2,593483	DT0015S	700		
Antal observationer:		343			
Typ	Från punkt	Värde	Residual	Utg värde	BVH-kvot
	Till punkt	Apr medelfel	Utg medelfel		Kontrollerbarhet
			MUF	YT	
Trigonometrisk	BT0401S	7,452655	0,000796	7,453451	0,503546
	BT0344H	0,001582	0,001115		?? 0,552558
			0,005958	0,002666	
Trigonometrisk	BT0401S	6,167802	0,000684	6,168486	0,433832
	BT0345V	0,001576	0,001114		?? 0,550130
			0,005948	0,002676	
Trigonometrisk	BT0401S	-2,764233	0,000317	-2,763916	0,202927
	BT0452H	0,001562	0,001088		?? 0,563428
			0,005826	0,002543	
Trigonometrisk	BT0401S	-3,700665	-0,000077	-3,700741	-0,047507
	BT0461V	0,001611	0,001158		?? 0,534670
			0,006169	0,002871	
Trigonometrisk	BT0401S	-6,115296	-0,002789	-6,118084	-1,477026
	BT0500S	0,001888	0,000873		0,807446
			0,005883	0,001133	
Trigonometrisk	BT0500S	13,572342	-0,000806	13,571536	-0,333977
	BT0344H	0,002413	0,001241		0,761975
			0,007741	0,001843	
Trigonometrisk	BT0500S	12,288160	-0,001590	12,286570	-0,662083
	BT0345V	0,002401	0,001240		0,760037
			0,007712	0,001851	
Trigonometrisk	BT0500S	6,119558	-0,001474	6,118084	-0,780726
	BT0401S	0,001888	0,000873		0,807446
			0,005883	0,001133	
Trigonometrisk	BT0500S	3,353199	0,000970	3,354169	0,632793
	BT0452H	0,001533	0,001067		?? 0,563908
			0,005715	0,002492	
Trigonometrisk	BT0500S	2,416844	0,000499	2,417343	0,333027
	BT0461V	0,001497	0,001101		?? 0,513450
			0,005851	0,002847	
Trigonometrisk	BT0500S	-0,364482	-0,000547	-0,365029	-0,339830
	BT0561V	0,001609	0,001224		?? 0,478868
			0,006510	0,003393	
Trigonometrisk	BT0500S	-2,597556	-0,002606	-2,600162	-1,467290
	BT0587S	0,001776	0,000833		0,802260
			0,005553	0,001098	

**Höjdnätutjämnning, observationer**

Skapad: 2008-01-08

		Från punkt	Till punkt		
Max residual:	-0,004711	DT0425S	DT0615V		
Max BVH-kvot:	-2,593483	DT0015S	700		
Antal observationer:		343			
Typ	Från punkt	Värde	Residual	Utj värde	BVH-kvot
	Till punkt	Apr medelfel	Utj medelfel		Kontrollerbarhet
			MUF	YT	
Trigonometrisk	BT0500S	-1,096270	-0,000625	-1,096895	-0,350815
	BT0588H	0,001781	0,001035		?? 0,696010
			0,005978	0,001817	
Trigonometrisk	BT0587S	5,955348	-0,001017	5,954331	-0,465683
	BT0452H	0,002185	0,001182		0,736389
			0,007128	0,001879	
Trigonometrisk	BT0587S	5,018360	-0,000855	5,017505	-0,406045
	BT0461V	0,002105	0,001216		?? 0,699719
			0,007045	0,002116	
Trigonometrisk	BT0587S	2,602195	-0,002033	2,600162	-1,144272
	BT0500S	0,001776	0,000833		0,802259
			0,005553	0,001098	
Trigonometrisk	BT0587S	2,234690	0,000443	2,235133	0,305890
	BT0561V	0,001448	0,001194		?? 0,387993
			0,006510	0,003984	
Trigonometrisk	BT0587S	1,502314	0,000953	1,503267	0,672883
	BT0588H	0,001416	0,000834		?? 0,687701
			0,004783	0,001494	
Trigonometrisk	BT0587S	0,312999	0,001889	0,314888	1,319602
	DT0614S	0,001432	0,000661		0,808146
			0,004459	0,000855	
Trigonometrisk	BT0587S	1,792618	0,001590	1,794208	1,101717
	DT0615V	0,001443	0,000941		?? 0,617513
			0,005141	0,001966	
Trigonometrisk	BT0587S	-0,496793	-0,000689	-0,497482	-0,445313
	BT0635H	0,001546	0,001239		?? 0,422204
			0,006662	0,003850	
Trigonometrisk	BT0587S	-1,093535	-0,000142	-1,093677	-0,091059
	BT0637V	0,001555	0,001184		?? 0,478523
			0,006296	0,003283	
Trigonometrisk	BT0587S	-6,660174	-0,003265	-6,663439	-1,724849
	BT0685S	0,001893	0,000901		0,795972
			0,005941	0,001212	
Trigonometrisk	BT0685S	6,664464	-0,001025	6,663439	-0,541515
	BT0587S	0,001893	0,000901		0,795972
			0,005941	0,001212	



**Höjdnätutjämnning, observationer** Skapad: 2008-01-08

Max residual:	-0,004711	Från punkt	Till punkt
Max BVH-kvot:	-2,593483	DT0425S	DT0615V
		DT0015S	700
Antal observationer: 343			

Typ	Från punkt	Värde	Residual	Utg värde	BVH-kvot
	Till punkt	Apr medelfel	Utg medelfel		Kontrollerbarhet
		MUF		YT	
Trigonometrisk	BT0685S	8,166450	0,000256	8,166706	0,135650
	BT0588H	0,001886	0,001089		?? 0,699946
			0,006313	0,001894	
Trigonometrisk	BT0685S	6,165263	0,000694	6,165957	0,447042
	BT0635H	0,001552	0,001240		?? 0,425488
			0,006662	0,003828	
Trigonometrisk	BT0685S	5,569108	0,000653	5,569761	0,423203
	BT0637V	0,001543	0,001149		?? 0,501121
			0,006103	0,003045	
Trigonometrisk	BT0685S	-5,374509	-0,000261	-5,374770	-0,158400
	BT0754H	0,001650	0,001228		?? 0,501400
			0,006525	0,003253	
Trigonometrisk	BT0685S	-5,911168	-0,000566	-5,911734	-0,341935
	BT0754V	0,001656	0,001311		?? 0,436109
			0,007020	0,003959	
Trigonometrisk	BT0685S	-9,302933	-0,004142	-9,307075	-1,935266
	BT0814S	0,002140	0,000956		0,820531
			0,006616	0,001187	
Trigonometrisk	BT0685S	-10,194985	-0,003079	-10,198064	-1,205471
	BT0855V	0,002554	0,001322		0,758798
			0,008210	0,001980	

**Höjdnätutjämnning, flermätta observationer**

 Skapad:  
2008-01-08

	Från punkt	Till punkt
Största spridning ?? 3 / 0,009112	1001	SW1006
Största slutn.fel: 2 / 0,001756	700	DT0015S

Gränsvärdet på spridningen är 2.8 ggr a priori-standardavvikelsen för mätningen  
 Gränsvärdet på slutningsfel på medelvärdet är 1 ggr a priori-standardavvikelsen för mätningen

Från punkt	Till Punkt Medeltåglängd	Antal mätn.	Största värde Medelvärde	Minsta värde	Spridning Slutningsfel	Gränsvärde Gränsvärde
1001	SW1003 159,931130	2	2,829371 2,827390	2,825410	2 / 0,003961 1 / -0,000618	0,006951 0,002457
1001	SW1006 222,126041	2	1,813148 1,808592	1,804036	?? 3 / 0,009112 1 / 0,000011	0,008851 0,003129
1001	SW1007 93,221480	2	2,003985 2,002190	2,000395	2 / 0,003591 1 / 0,000810	0,005194 0,001836
700	BT0000H	1	-10,215334		***	0,004764
700	BT0018H	1	-12,273552		***	0,005163
700	DT0000V	1	-10,019085		***	0,004762
700	DT0001H	1	-10,161852		***	0,004789
700	DT0015S 87,716341	2	-13,198877 -13,201781	-13,204685	?? 3 / 0,005808 2 / 0,001756	0,005071 0,001793
700	DT0038V	1	-14,383392		***	0,005614
700	SW1000 13,591854	2	-1,909641 -1,909696	-1,909752	1 / 0,000111 2 / -0,000804	0,004029 0,001424
700	SW1001 97,855991	3	4,097896 4,096550	4,093993	2 / 0,003903 1 / -0,000293	0,005301 0,001874
700	SW1002	1	-2,050177		***	0,004062
700	SW1003 54,480501	2	4,930631 4,928752	4,926873	2 / 0,003758 1 / 0,000359	0,004444 0,001571
700	SW1004	1	-8,244214		***	0,004530
700	SW1005	1	-7,143606		***	0,004483
816	BT1059S	1	-0,007941		***	0,004014
817	BT1059S	1	-1,682399		***	0,004160
BST0035H	BST0140S	1	1,154379		***	0,005233
BST0035H	CT0000S	1	-1,666332		***	0,004194
BST0117V	BST0140S	1	0,425126		***	0,004026
BST0117V	CT0000S	1	-2,401541		***	0,005770

## Höjdnätutjämnning, flermätta observationer

Skapad:  
2008-01-08

	Från punkt	Till punkt
Största spridning ?? 3 / 0,009112	1001	SW1006
Största slutn.fel: 2 / 0,001756	700	DT0015S

Gränsvärdet på spridningen är 2.8 ggr a priori-standardavvikelsen för mätningen  
Gränsvärdet på slutningsfel på medelvärdet är 1 ggr a priori-standardavvikelsen för mätningen

Från punkt	Till Punkt Medeltåglängd	Antal mätn.	Största värde Medelvärde	Minsta värde	Spridning Slutningsfel	Gränsvärde Gränsvärde
BST0140S	CT0000S	1	-2,828575		***	0,006101
BT0000H	BT0035S	1	-5,393971		***	0,004211
BT0000H	SW1000	1	8,305313		***	0,004563
BT0018H	BT0035S	1	-3,332951		***	0,004051
BT0018H	SW1000	1	10,363364		***	0,004927
BT0035S	BT0047V	1	-0,331394		***	0,004027
BT0035S	BT0059H	1	-2,054521		***	0,004098
BT0035S	BT0082S 48,158891	2	-5,124777 -5,126534	-5,128292	2 / 0,003516 1 / -0,000406	0,004351 0,001538
BT0035S	BT0099V	1	-8,217605		***	0,004614
BT0035S	SW1000	1	13,696275		***	0,005319
BT0035S	SW1002	1	13,564267		***	0,005202
BT0047V	BT0082S	1	-4,796391		***	0,004201
BT0059H	BT0082S	1	-3,071637		***	0,004085
BT0082S	BT0099V	1	-3,091934		***	0,004045
BT0082S	BT0117H	1	-5,328221		***	0,004183
BT0082S	BT0180S 96,944701	2	-13,644539 -13,647251	-13,649964	?? 3 / 0,005425 1 / 0,000209	0,005279 0,001867
BT0082S	BT0202V	1	-17,057899		***	0,005818
BT0082S	BT0212H	1	-18,333248		***	0,006088
BT0099V	BT0180S	1	-10,556720		***	0,004925
BT0117H	BT0180S	1	-8,317877		***	0,004582
BT0180S	BT0202V	1	-3,412407		***	0,004075
BT0180S	BT0212H	1	-4,689323		***	0,004168
BT0180S	BT0278H	1	-12,199381		***	0,005332

**Höjdnätutjämnning, flermätta observationer**

 Skapad:  
2008-01-08

	Från punkt	Till punkt
Största spridning ?? 3 / 0,009112	1001	SW1006
Största slutn.fel: 2 / 0,001756	700	DT0015S

Gränsvärdet på spridningen är 2.8 ggr a priori-standardavvikelsen för mätningen  
 Gränsvärdet på slutningsfel på medelvärdet är 1 ggr a priori-standardavvikelsen för mätningen

Från punkt	Till Punkt Medeltåglängd	Antal mätn.	Största värde Medelvärde	Minsta värde	Spridning Slutningsfel	Gränsvärde Gränsvärde
BT0180S	BT0278S 98,851629	2	-13,335638 -13,338143	-13,340649	2 / 0,005011 1 / 0,000239	0,005324 0,001882
BT0180S	BT0344H	1	-18,339439		***	0,007096
BT0180S	BT0345V	1	-19,625059		***	0,007130
BT0202V	BT0278S	1	-9,926109		***	0,004848
BT0212H	BT0278S	1	-8,649962		***	0,004652
BT0278H	BT0278S	1	-1,136230		***	0,004005
BT0278H	BT0401S	1	-13,595814		***	0,005895
BT0278H	DT0305S	1	-1,094503		***	0,004087
BT0278S	BT0344H	1	-5,004035		***	0,004640
BT0278S	BT0345V	1	-6,289207		***	0,004660
BT0278S	BT0401S 122,015568	2	-12,454391 -12,457355	-12,460320	?? 3 / 0,005929 1 / 0,000278	0,005900 0,002086
BT0278S	BT0452H	1	-15,218744		***	0,007382
BT0278S	DT0305S 18,081689	2	0,047654 0,045558	0,043461	?? 3 / 0,004193 2 / -0,001263	0,004051 0,001432
BT0278S	DT0305V	1	1,618601		***	0,004083
BT0344H	BT0401S	1	-7,452655		***	0,004469
BT0344H	BT0500S	1	-13,572342		***	0,006823
BT0345V	BT0401S	1	-6,167802		***	0,004454
BT0345V	BT0500S	1	-12,288160		***	0,006789
BT0401S	BT0452H	1	-2,764233		***	0,004415
BT0401S	BT0461V	1	-3,700665		***	0,004553
BT0401S	BT0500S 99,450157	2	-6,115296 -6,117427	-6,119558	2 / 0,004262 1 / -0,000657	0,005338 0,001887
BT0452H	BT0500S	1	-3,353199		***	0,004334

## Höjdnätutjämnning, flermätta observationer

 Skapad:  
2008-01-08

	Från punkt	Till punkt
Största spridning ?? 3 / 0,009112	1001	SW1006
Största slutn.fel: 2 / 0,001756	700	DT0015S

Gränsvärdet på spridningen är 2.8 ggr a priori-standardavvikelsen för mätningen  
 Gränsvärdet på slutningsfel på medelvärdet är 1 ggr a priori-standardavvikelsen för mätningen

Från punkt	Till Punkt Medeltåglängd	Antal mätn.	Största värde Medelvärde	Minsta värde	Spridning Slutningsfel	Gränsvärde Gränsvärde
BT0452H	BT0587S	1	-5,955348		***	0,006179
BT0461V	BT0500S	1	-2,416844		***	0,004235
BT0461V	BT0587S	1	-5,018360		***	0,005953
BT0500S	BT0561V	1	-0,364482		***	0,004551
BT0500S	BT0587S	2	-2,597556	-2,602195	2 / 0,004639	0,005024
	85,521027		-2,599875		1 / -0,000287	0,001776
BT0500S	BT0588H	1	-1,096270		***	0,005037
BT0561V	BT0587S	1	-2,234690		***	0,004096
BT0587S	BT0588H	1	1,502314		***	0,004006
BT0587S	BT0635H	1	-0,496793		***	0,004372
BT0587S	BT0637V	1	-1,093535		***	0,004398
BT0587S	BT0685S	2	-6,660174	-6,664464	2 / 0,004290	0,005352
	100,026526		-6,662319		2 / -0,001120	0,001892
BT0587S	DT0614S	3	0,316119	0,312999	2 / 0,003120	0,004049
	17,681577		0,315062		1 / -0,000173	0,001432
BT0587S	DT0615V	1	1,792618		***	0,004081
BT0588H	BT0685S	1	-8,166450		***	0,005334
BT0588H	DT0614S	2	-1,188665	-1,188825	1 / 0,000160	0,004089
	23,863220		-1,188745		1 / 0,000366	0,001446
BT0635H	BT0685S	1	-6,165263		***	0,004387
BT0637V	BT0685S	1	-5,569108		***	0,004362
BT0637V	BT0814S	1	-14,878329		***	0,007437
BT0685S	BT0754H	1	-5,374509		***	0,004663
BT0685S	BT0754V	1	-5,911168		***	0,004678
BT0685S	BT0814S	2	-9,302933	-9,308995	?? 3 / 0,006063	0,006051
	127,735375		-9,305964		2 / -0,001111	0,002139

## Höjdnätutjämnning, flermätta observationer

Skapad:  
2008-01-08

	Från punkt	Till punkt
Största spridning ?? 3 / 0,009112	1001	SW1006
Största slutn.fel: 2 / 0,001756	700	DT0015S

Gränsvärdet på spridningen är 2.8 ggr a priori-standardavvikelsen för mätningen  
Gränsvärdet på slutningsfel på medelvärdet är 1 ggr a priori-standardavvikelsen för mätningen

Från punkt	Till Punkt Medeltåglängd	Antal mätn.	Största värde Medelvärde	Minsta värde	Spridning Slutningsfel	Gränsvärde Gränsvärde
BT0685S	BT0855V	1	-10,194985		***	0,007222
BT0754H	BT0814S	1	-3,931686		***	0,004540
BT0754H	BT0897S	1	-9,544629		***	0,006564
BT0754V	BT0814S	1	-3,394810		***	0,004536
BT0806H	BT0814S	1	-2,323277		***	0,004011
BT0806H	BT0897S	1	-7,935966		***	0,005202
BT0806H	TT0024S	1	-1,483007		***	0,004167
BT0814S	BT0855V	1	-0,891179		***	0,004269
BT0814S	BT0856H	1	-1,498933		***	0,004287
BT0814S	BT0897S	2	-5,608279	-5,612941	2 / 0,004662	0,005036
	86,102812		-5,610610		2 / -0,000940	0,001781
BT0814S	BT0909H	1	-3,499227		***	0,005281
BT0814S	TT0024S	2	0,842042	0,840040	1 / 0,002002	0,004115
	27,173816		0,841041		1 / 0,000072	0,001455
BT0814S	TT0120H	1	6,400375		***	0,005954
BT0855V	BT0897S	1	-4,719662		***	0,004300
BT0856H	BT0897S	1	-4,112249		***	0,004285
BT0897S	BT0900V	1	2,308232		***	0,004010
BT0897S	BT0909H	1	2,109707		***	0,004019
BT0897S	BT0929H	1	3,130151		***	0,004154
BT0897S	BT0930V	1	3,448899		***	0,004175
BT0897S	BT0962H	1	6,382676		***	0,004614
BT0897S	BT0963S	2	5,139928	5,137678	1 / 0,002250	0,004656
	67,025000		5,138803		1 / 0,000471	0,001646
BT0897S	BT0982V	1	8,383611		***	0,005009
BT0897S	NBT0050V	1	-2,987981		***	0,004319

## Höjdnätutjämnning, flermätta observationer

 Skapad:  
 2008-01-08

	Från punkt	Till punkt
Största spridning ?? 3 / 0,009112	1001	SW1006
Största slutn.fel: 2 / 0,001756	700	DT0015S

Gränsvärdet på spridningen är 2.8 ggr a priori-standardavvikelsen för mätningen  
 Gränsvärdet på slutningsfel på medelvärdet är 1 ggr a priori-standardavvikelsen för mätningen

Från punkt	Till Punkt Medeltåglängd	Antal mätn.	Största värde Medelvärde	Minsta värde	Spridning Slutningsfel	Gränsvärde Gränsvärde
BT0897S	NBT0051H	1	-3,042167		***	0,004336
BT0897S	NBT0100S	1	-11,895962		***	0,005259
BT0897S	NBT0138	1	-15,064670		***	0,006253
BT0900V	NBT0100S	1	-14,208176		***	0,005426
BT0909H	BT0963S	1	3,026727		***	0,004471
BT0929H	BT0963S	1	2,008067		***	0,004199
BT0930V	BT0963S	1	1,688283		***	0,004178
BT0962H	BT0963S	1	-1,238181		***	0,004010
BT0962H	DT0988S	1	-0,889757		***	0,004097
BT0963S	BT0982V	1	3,238575		***	0,004054
BT0963S	BT0991H	1	4,073927		***	0,004113
BT0963S	BT1008V	1	5,581205		***	0,004285
BT0963S	BT1059S	3	8,151247	8,148504	2 / 0,002743	0,005220
	94,359546		8,150311		1 / 0,000599	0,001846
BT0963S	DT0988S	2	0,350078	0,347243	2 / 0,002836	0,004046
	17,195547		0,348660		1 / -0,000666	0,001431
BT0982V	BT1059S	1	4,910358		***	0,004855
BT0986V	CT0000S	1	-3,821048		***	0,004894
BT0988S	CT0000S	1	-2,388087		***	0,004864
BT0991H	BT1059S	1	4,077330		***	0,004663
BT1008V	BT1059S	1	2,569469		***	0,004405
BT1059S	BT1085V	1	0,278945		***	0,004100
BT1059S	BT1087H	1	0,067486		***	0,004129
BT1059S	BT1095S	2	-1,956830	-1,957381	1 / 0,000552	0,004203
	36,329646		-1,957105		1 / 0,000184	0,001486

**Höjdnätutjämnning, flermätta observationer**

 Skapad:  
 2008-01-08

	Från punkt	Till punkt
Största spridning ?? 3 / 0,009112	1001	SW1006
Största slutn.fel: 2 / 0,001756	700	DT0015S

Gränsvärdet på spridningen är 2.8 ggr a priori-standardavvikelsen för mätningen  
 Gränsvärdet på slutningsfel på medelvärdet är 1 ggr a priori-standardavvikelsen för mätningen

Från punkt	Till Punkt Medeltåglängd	Antal mätn.	Största värde Medelvärde	Minsta värde	Spridning Slutningsfel	Gränsvärde Gränsvärde
BT1059S	BT1106H	1	-1,584410		***	0,004341
BT1085V	BT1095S	1	-2,235393		***	0,004021
BT1087H	BT1095S	1	-2,024829		***	0,004014
BT1087H	BT1170S	1	-7,223049		***	0,005062
BT1095S	BT1106H	1	0,372563		***	0,004021
BT1095S	BT1139H	1	-2,610902		***	0,004311
BT1095S	BT1149V	1	-3,735836		***	0,004460
BT1095S	BT1170H	1	-3,728642		***	0,004863
BT1095S	BT1170S	2	-5,194417	-5,198217	2 / 0,003801	0,004865
	77,909470		-5,196317		1 / -0,000351	0,001720
BT1106H	BT1170S	1	-5,569748		***	0,004676
BT1139H	BT1170S	1	-2,585920		***	0,004169
BT1149V	BT1170S	1	-1,461582		***	0,004082
BT1170H	BT1170S	1	-1,466435		***	0,004003
BT1170H	ST0081S	1	-2,228567		***	0,004128
BT1170S	ST0081S	1	-0,757548		***	0,004098
BT1170S	ST0084H	1	0,023307		***	0,004076
CT0000S	CT0015H	1	1,296737		***	0,004036
CT0000S	CT0015V	1	1,290444		***	0,004031
CT0000S	CT0055V	1	0,998061		***	0,004444
CT0000S	CT0061H	1	2,047644		***	0,004556
CT0000S	CT0090S	3	0,981222	0,978578	2 / 0,002644	0,005186
	92,877955		0,980207		1 / -0,000647	0,001834
CT0000S	DT0902H	1	11,535556		***	0,007070
CT0000S	DT0939S	2	6,684000	6,679805	2 / 0,004196	0,006017
	126,448071		6,681903		1 / 0,000230	0,002127



**Höjdnätutjämnning, flermätta observationer**

 Skapad:  
2008-01-08

	Från punkt	Till punkt
Största spridning ?? 3 / 0,009112	1001	SW1006
Största slutn.fel: 2 / 0,001756	700	DT0015S

Gränsvärdet på spridningen är 2.8 ggr a priori-standardavvikelsen för mätningen  
 Gränsvärdet på slutningsfel på medelvärdet är 1 ggr a priori-standardavvikelsen för mätningen

Från punkt	Till Punkt Medeltåglängd	Antal mätn.	Största värde Medelvärde	Minsta värde	Spridning Slutningsfel	Gränsvärde Gränsvärde
CT0000S	DT0988S 77,869090	2	2,388501 2,386298	2,384095	2 / 0,004406 2 / 0,000953	0,004864 0,001720
CT0015H	CT0090S	1	-0,318166		***	0,004907
CT0015V	CT0090S	1	-0,311148		***	0,004902
CT0015V	DT0988S	1	1,093886		***	0,005151
CT0055V	CT0090S	1	-0,017873		***	0,004228
CT0061H	CT0090S	1	-1,067058		***	0,004161
CT0090S	DT0988S	1	1,410965		***	0,007268
CT0090S	ST0033H	1	2,051113		***	0,004187
CT0090S	ST0033V	1	2,127103		***	0,004185
CT0090S	ST0081S 81,833958	2	1,298931 1,297534	1,296137	2 / 0,002794 1 / -0,000068	0,004946 0,001749
CT0090S	ST0084H	1	2,084515		***	0,005016
DT0000V	DT0015S	1	-3,180633		***	0,004035
DT0000V	DT0047S	1	-7,084398		***	0,004341
DT0000V	SW1000	1	8,108751		***	0,004610
DT0001H	DT0015S	1	-3,037946		***	0,004034
DT0001H	DT0047S	1	-6,939757		***	0,004320
DT00121V	DT0099S	1	1,193626		***	0,004076
DT0015S	DT0038V	1	-1,185287		***	0,004084
DT0015S	DT0043H	1	-1,942181		***	0,004129
DT0015S	DT0047S	1	-3,900474		***	0,004164
DT0015S	DT0078V	1	-6,131617		***	0,004584
DT0015S	SW1000	1	11,287452		***	0,004893
DT0038V	DT0047S	1	-2,715878		***	0,004014

## Höjdnätutjämnning, flermätta observationer

 Skapad:  
 2008-01-08

	Från punkt	Till punkt
Största spridning ?? 3 / 0,009112	1001	SW1006
Största slutn.fel: 2 / 0,001756	700	DT0015S

Gränsvärdet på spridningen är 2.8 ggr a priori-standardavvikelsen för mätningen  
 Gränsvärdet på slutningsfel på medelvärdet är 1 ggr a priori-standardavvikelsen för mätningen

Från punkt	Till Punkt Medeltåglängd	Antal mätn.	Största värde Medelvärde	Minsta värde	Spridning Slutningsfel	Gränsvärde Gränsvärde
DT0038V	DT0099S	1	-9,065011		***	0,004543
DT0043H	DT0047S	1	-1,959879		***	0,004007
DT0047S	DT0076H	1	-1,820553		***	0,004123
DT0047S	DT0078V	1	-2,231816		***	0,004153
DT0047S	DT0099S	2	-6,346213	-6,348948	2 / 0,002735	0,004397
	51,399952		-6,347581		1 / 0,000104	0,001555
DT0076H	DT0099S	1	-4,527164		***	0,004085
DT0078V	DT0099S	1	-4,115744		***	0,004067
DT0078V	DT0138S	1	-8,855914		***	0,004514
DT0099S	DT0120H	1	-1,021020		***	0,004068
DT0099S	DT0138S	2	-4,737935	-4,739940	1 / 0,002005	0,004232
	38,906361		-4,738938		1 / -0,000103	0,001496
DT0099S	DT0190V	1	-9,405694		***	0,005150
DT0099S	DT0225S	3	-15,038888	-15,046610	?? 3 / 0,007722	0,006004
	125,991574		-15,043687		1 / 0,000619	0,002123
DT0120H	DT0138S	1	-3,718034		***	0,004054
DT0120H	DT0225S	1	-14,025055		***	0,005476
DT0121V	DT0138S	1	-3,545425		***	0,004047
DT0138S	DT0190V	1	-4,667887		***	0,004414
DT0138S	DT0194H	1	-5,264711		***	0,004477
DT0138S	DT0225S	2	-10,302347	-10,304254	1 / 0,001907	0,005063
	87,307813		-10,303300		1 / -0,000727	0,001790
DT0138S	DT0255H	1	-12,324231		***	0,005759
DT0138S	DT0305S	1	-19,492169		***	0,007182
DT0190V	DT0225S	1	-5,634825		***	0,004187
DT0190V	DT0305S	1	-14,822286		***	0,005728

**Höjdnätutjämnning, flermätta observationer**

 Skapad:  
2008-01-08

	Från punkt	Till punkt
Största spridning ?? 3 / 0,009112	1001	SW1006
Största slutn.fel: 2 / 0,001756	700	DT0015S

Gränsvärdet på spridningen är 2.8 ggr a priori-standardavvikelsen för mätningen  
 Gränsvärdet på slutningsfel på medelvärdet är 1 ggr a priori-standardavvikelsen för mätningen

Från punkt	Till Punkt Medeltåglängd	Antal mätn.	Största värde Medelvärde	Minsta värde	Spridning Slutningsfel	Gränsvärde Gränsvärde
DT0194H	DT0225S	1	-5,037999		***	0,004152
DT0194H	DT0305S	1	-14,225736		***	0,005628
DT0225H	DT0225S	1	2,022911		***	0,004136
DT0225H	DT0305S	1	-7,162634		***	0,004396
DT0225S	DT0305S	4	-9,182919	-9,187180	2 / 0,004261	0,004919
	80,568463		-9,185131		1 / -0,000268	0,001739
DT0225S	DT0305V	1	-7,609656		***	0,004915
DT0305S	DT0305V	2	1,574902	1,574871	1 / 0,000031	0,004004
	4,988510		1,574886		1 / 0,000430	0,001416
DT0305S	DT0368V	1	-4,805937		***	0,004568
DT0305S	DT0369H	1	-5,088283		***	0,004574
DT0305S	DT0425S	2	-11,920770	-11,926043	2 / 0,005273	0,005843
	119,834877		-11,923406		1 / -0,000207	0,002066
DT0305S	DT0513V	1	-16,623727		***	0,008368
DT0305V	DT0425S	1	-13,502233		***	0,005844
DT0368V	DT0425S	1	-7,116513		***	0,004498
DT0368V	DT0556S	1	-14,506221		***	0,007802
DT0369H	DT0425S	1	-6,834062		***	0,004493
DT0369H	DT0556S	1	-14,224251		***	0,007788
DT0425S	DT0513H	1	-4,784290		***	0,005054
DT0425S	DT0513V	1	-4,705083		***	0,005055
DT0425S	DT0556S	2	-7,381357	-7,389144	?? 3 / 0,007787	0,006127
	130,565061		-7,385251		1 / 0,000336	0,002166
DT0425S	DT0615V	1	-7,497087		***	0,007815
DT0513H	DT0556S	1	-2,600344		***	0,004296
DT0513H	DT0614S	1	-4,197427		***	0,005371

**Höjdnätutjämnning, flermätta observationer**

 Skapad:  
2008-01-08

	Från punkt	Till punkt
Största spridning ?? 3 / 0,009112	1001	SW1006
Största slutn.fel: 2 / 0,001756	700	DT0015S

Gränsvärdet på spridningen är 2.8 ggr a priori-standardavvikelsen för mätningen  
 Gränsvärdet på slutningsfel på medelvärdet är 1 ggr a priori-standardavvikelsen för mätningen

Från punkt	Till Punkt Medeltåglängd	Antal mätn.	Största värde Medelvärde	Minsta värde	Spridning Slutningsfel	Gränsvärde Gränsvärde
DT0513V	DT0556S	1	-2,679396		***	0,004290
DT0513V	DT0614S	1	-4,276717		***	0,005369
DT0556S	DT0614S	2	-1,597196	-1,597298	1 / 0,000101	0,004488
	57,238421		-1,597247		2 / 0,001044	0,001587
DT0556S	DT0615V	1	-0,116288		***	0,004505
DT0614S	DT0615V	1	1,478413		***	0,004004
DT0614S	DT0674V	1	0,390680		***	0,004557
DT0614S	DT0685H	1	0,293776		***	0,004771
DT0614S	DT0735S	2	-1,488772	-1,491557	1 / 0,002785	0,005906
	122,248761		-1,490165		2 / 0,001125	0,002088
DT0615V	DT0735S	1	-2,969931		***	0,005876
DT0674V	DT0735S	2	-1,879582	-1,879683	1 / 0,000101	0,004554
	61,225390		-1,879632		1 / -0,000505	0,001610
DT0674V	DT0855S	1	-4,913548		***	0,007567
DT0685H	DT0735S	2	-1,782463	-1,783188	1 / 0,000725	0,004364
	49,073465		-1,782826		1 / 0,000003	0,001543
DT0735S	DT0772H	1	1,016796		***	0,004205
DT0735S	DT0795V	1	0,721435		***	0,004528
DT0735S	DT0855S	2	-3,026706	-3,032808	?? 3 / 0,006103	0,005838
	119,632134		-3,029757		1 / 0,000285	0,002064
DT0772H	DT0855S	1	-4,047660		***	0,004974
DT0795V	DT0855S	1	-3,751407		***	0,004539
DT0855S	DT0900V	1	-2,798822		***	0,004308
DT0855S	DT0902H	1	-2,745851		***	0,004342
DT0855S	DT0939S	2	-7,596472	-7,599060	2 / 0,002587	0,004996
	84,228827		-7,597766		2 / 0,001477	0,001766
DT0900V	DT0939S	1	-4,797455		***	0,004236

## Höjdnätutjämnning, flermätta observationer

 Skapad:  
2008-01-08

	Från punkt	Till punkt
Största spridning ?? 3 / 0,009112	1001	SW1006
Största slutn.fel: 2 / 0,001756	700	DT0015S

Gränsvärdet på spridningen är 2.8 ggr a priori-standardavvikelsen för mätningen  
 Gränsvärdet på slutningsfel på medelvärdet är 1 ggr a priori-standardavvikelsen för mätningen

Från punkt	Till Punkt Medeltåglängd	Antal mätn.	Största värde Medelvärde	Minsta värde	Spridning Slutningsfel	Gränsvärde Gränsvärde
DT0902H	DT0939S	1	-4,849922		***	0,004217
DT0939S	DT0986V	1	-2,863033		***	0,004340
DT0939S	DT0988S	2	-4,295275	-4,295420	1 / 0,000145	0,004357
	48,598133		-4,295347		1 / 0,000465	0,001540
DT0986V	DT0988S	1	-1,433221		***	0,004004
NBT0050V	NBT0100S	1	-8,909488		***	0,004389
NBT0051H	NBT0100S	1	-8,855475		***	0,004365
NBT0100S	NBT0138H	1	-3,168889		***	0,004237
NBT0100S	NBT0150H	1	-4,065402		***	0,004398
NBT0100S	NBT0150S	2	-5,637196	-5,639694	2 / 0,002498	0,004359
	48,734010		-5,638445		1 / 0,000163	0,001541
NBT0138H	NBT0150S	1	-2,469011		***	0,004028
NBT0150H	NBT0150S	1	-1,572206		***	0,004003
NBT0150H	NBT0345S	1	-25,425115		***	0,008164
NBT0150S	NBT0213V	1	-7,549095		***	0,004637
NBT0150S	NBT0246H	1	-12,139636		***	0,005370
NBT0150S	NBT0312H	1	-21,326108		***	0,007102
NBT0150S	NBT0345S	1	-23,853766		***	0,008083
NBT0213V	NBT0345S	1	-16,300506		***	0,006163
NBT0246H	NBT0345S	1	-11,711765		***	0,005279
NBT0312H	NBT0345S	1	-2,518676		***	0,004164
NBT0345S	NBT0360H	1	0,782891		***	0,004031
NBT0345S	NBT0396S	1	-1,646487		***	0,004389
NBT0345S	NBT0405V	1	-2,365980		***	0,004528
NBT0345S	NBT0420H	1	-2,949721		***	0,004848

## Höjdnätutjämnning, flermätta observationer

 Skapad:  
2008-01-08

	Från punkt	Till punkt
Största spridning ?? 3 / 0,009112	1001	SW1006
Största slutn.fel: 2 / 0,001756	700	DT0015S

Gränsvärdet på spridningen är 2.8 ggr a priori-standardavvikelsen för mätningen  
 Gränsvärdet på slutningsfel på medelvärdet är 1 ggr a priori-standardavvikelsen för mätningen

Från punkt	Till Punkt Medeltåglängd	Antal mätn.	Största värde Medelvärde	Minsta värde	Spridning Slutningsfel	Gränsvärde Gränsvärde
NBT0360H	NBT0396S	1	-2,428267		***	0,004251
NBT0396S	NBT0405V	1	-0,720796		***	0,004013
NBT0396S	NBT0420H	1	-1,305015		***	0,004112
ST00084H	ST0081S	1	-0,786188		***	0,004002
ST0033H	ST0081S	1	-0,754811		***	0,004337
ST0033V	ST0081S	1	-0,830357		***	0,004356
SW1000	SW1001 108,401363	2	6,007347 6,006257	6,005168	1 / 0,002178 1 / 0,000500	0,005554 0,001964
SW1000	SW1002	1	-0,139841		***	0,004006
SW1000	SW1003 41,112726	2	6,841680 6,840025	6,838369	2 / 0,003312 1 / -0,000412	0,004259 0,001506
SW1000	SW1004	1	-6,334230		***	0,004350
SW1000	SW1005	1	-5,233641		***	0,004375
SW1001	SW1002	1	-6,145070		***	0,005672
SW1001	SW1003 138,962837	2	0,834621 0,832692	0,830763	2 / 0,003858 1 / 0,000163	0,006356 0,002247
SW1001	SW1006 200,661672	2	-0,182497 -0,185345	-0,188192	2 / 0,005696 1 / 0,000029	0,008177 0,002891
SW1003	SW1007 66,709792	2	-0,821975 -0,823487	-0,824998	2 / 0,003022 1 / -0,000286	0,004650 0,001644
SW1006	SW1007 196,413971	2	0,198565 0,194360	0,190156	?? 3 / 0,008409 1 / 0,000037	0,008046 0,002845
TT0024S	TT0054H	1	3,083464		***	0,004139
TT0024S	TT0088H	1	4,820280		***	0,004627
TT0024S	TT0120H	1	5,557756		***	0,005279

<b>Kontrollslingor</b>		Skapad: 2008-01-08	
Slutningsfel i slingor före utjämning			
Max slutningsfel:	0,000000 ( )		
Antal slingor utanför toleransen:	0		
Toleransen för slutningsfelet är 1.4 ggr a priori-std.avvikelsen för mätningen (givet för enkelavvägning)			
<b>Slinga</b>	<b>Typ</b>	<b>Slutningsfel</b>	<b>Gränsvärde</b>

ACTIVITY_TYPE	START_DATE	STOP_DATE	IDCODE	(m)	(m)	(m)	(m)	(m.a.s.l.)	(m)	(m)	(m)	(degrees)	(degrees)	COMMENT			
				SECUP	SECLAW	SIGN	ACTIVITY_ID	NORTHING	EASTING	ELEVATION	COORD_SYSTEM	NORTHING_ERR	EASTING_ERR	ELEVATION_ERR	BEARING	INCLINATION	
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000001				13182181	6700443.634	1629655.768	7.467	RT90-RHB70	0.008	0.007	0.010			111
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000002				13182182	6702506.021	1631682.916	2.924	RT90-RHB70	0.009	0.009	0.009			266
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000003				13182183	6702847.702	1630948.805	1.109	RT90-RHB70	0.009	0.009	0.009			267
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000004				13182184	6700503.377	1630269.367	4.759	RT90-RHB70	0.009	0.008	0.012			302
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000005				13182185	6700875.094	1630368.061	3.531	RT90-RHB70	0.010	0.009	0.010			303
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000006				13182186	6701235.126	1629971.133	6.366	RT90-RHB70	0.016	0.012	0.017			405
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000007				13182187	6700927.769	1630008.622	5.466	RT90-RHB70	0.011	0.009	0.011			406
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000008				13182188	6701095.392	1630058.282	5.007	RT90-RHB70	0.011	0.009	0.012			410
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000009				13182189	6701012.598	1629664.334	2.475	RT90-RHB70	0.007	0.006	0.008			455
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000010				13182190	6701151.367	1632330.808	-0.604	RT90-RHB70	0.008	0.008	0.010			700
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000011				13182191	6701159.242	1628991.440	7.107	RT90-RHB70	0.007	0.006	0.012			1006
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000012				13182192	6703819.007	1631063.874	0.661	RT90-RHB70	0.006	0.005	0.007			2622
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000013				13182193	6699213.252	1629328.511	7.957	RT90-RHB70	0.008	0.007	0.013			3018
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000014				13182194	6699484.601	1629253.941	9.216	RT90-RHB70	0.007	0.006	0.010			3020
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000015				13182195	6697296.526	1630017.107	19.218	RT90-RHB70	0.007	0.006	0.008			8601
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000016				13182196	6697588.300	1629704.220	15.528	RT90-RHB70	0.007	0.007	0.009			8602
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000017				13182197	6697888.610	1629613.496	17.079	RT90-RHB70	0.008	0.008	0.010			8603
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000018				13182198	6698234.551	1629680.377	18.436	RT90-RHB70	0.008	0.008	0.010			8604
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000019				13182199	6699182.584	1629971.373	6.976	RT90-RHB70	0.009	0.008	0.010			8606
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000020				13182200	6699834.159	1630152.749	7.497	RT90-RHB70	0.005	0.005	0.007			8607
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000021				13182201	6700073.613	1630034.309	6.341	RT90-RHB70	0.008	0.008	0.012			8608
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000022				13182202	6701212.042	1631140.115	2.188	RT90-RHB70	0.006	0.005	0.007			8617
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000023				13182203	6701697.655	1632245.978	2.925	RT90-RHB70	0.007	0.007	0.008			10000
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000024				13182204	6696854.932	1629539.173	11.383	RT90-RHB70	0.008	0.008	0.010			86101
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000025				13182205	6699887.312	1630695.838	5.824	RT90-RHB70	0.006	0.006	0.008			86106
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000026				13182206	6700071.315	1631078.461	2.229	RT90-RHB70	0.010	0.009	0.015			86112
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000027				13182207	6692095.455	1626509.381	27.259	RT90-RHB70	0.007	0.006	0.019			128851,1
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000028				13182208	6706564.931	1623719.503	16.539	RT90-RHB70	0.007	0.006	0.011			138141
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000029				13182209	6697563.240	1629809.046	14.502	RT90-RHB70	0.006	0.006	0.008			1289590
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000030				13182210	6701362.581	1632367.392	1.510	RT90-RHB70	0.004	0.004	0.006			PP1001
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000031				13182211	6705011.415	1643752.816	18.385	RT90-RHB70	0.009	0.008	0.021			SOODE.0
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000032				13182212	6701107.444	1632243.344	3.492	RT90-RHB70	0.008	0.008	0.010			SW1001
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000033				13182213	6701170.120	1632337.568	3.504	RT90-RHB70	0.001	0.002	0.001			SW1002
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000034				13182214	6701210.956	1632325.314	4.337	RT90-RHB70	0.001	0.001	0.001			SW1004
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000035				13182215	6701200.318	1632301.706	-8.837	RT90-RHB70	0.001	0.001	0.002			SW1005
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000036				13182216	6701989.648	1632969.307	-86.303	RT90-RHB70	0.001	0.001	0.003			BST0035H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000037				13182217	6702025.200	1632894.782	-85.570	RT90-RHB70	0.001	0.001	0.003			BST0117V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000038				13182218	6701222.962	1632317.466	-10.808	RT90-RHB70	0.001	0.001	0.002			BT0000H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000039				13182219	6701241.053	1632311.074	-12.867	RT90-RHB70	0.001	0.001	0.002			BT0018H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000040				13182220	6701269.703	1632300.857	-16.533	RT90-RHB70	0.001	0.001	0.002			BT0047V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000041				13182221	6701280.137	1632310.787	-18.257	RT90-RHB70	0.001	0.001	0.002			BT0059H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000042				13182222	6701317.786	1632323.266	-24.420	RT90-RHB70	0.001	0.001	0.002			BT0099V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000043				13182223	6701323.157	1632342.558	-26.658	RT90-RHB70	0.001	0.001	0.002			BT0117H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000044				13182224	6701383.484	1632402.168	-38.388	RT90-RHB70	0.001	0.001	0.002			BT0202V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000045				13182225	6701383.627	1632415.568	-39.664	RT90-RHB70	0.001	0.001	0.002			BT0212H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000046				13182226	6701426.197	1632466.922	-47.176	RT90-RHB70	0.001	0.001	0.002			BT0278H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000047				13182227	6701467.694	1632517.948	-53.317	RT90-RHB70	0.001	0.001	0.002			BT0344H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000048				13182228	6701475.031	1632513.586	-54.602	RT90-RHB70	0.001	0.001	0.002			BT0345V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000049				13182229	6701536.947	1632601.564	-63.535	RT90-RHB70	0.001	0.001	0.002			BT0452H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000050				13182230	6701548.766	1632602.641	-64.472	RT90-RHB70	0.001	0.001	0.002			BT0461V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000051				13182231	6701611.857	1632679.294	-67.254	RT90-RHB70	0.001	0.001	0.002			BT0561V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000052				13182232	6701621.405	1632704.374	-67.986	RT90-RHB70	0.001	0.001	0.002			BT0588H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000053				13182233	6701652.355	1632741.840	-69.987	RT90-RHB70	0.001	0.001	0.002			BT0635H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000054				13182234	6701659.991	1632738.275	-70.583	RT90-RHB70	0.001	0.001	0.002			BT0637V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000055				13182235	6701727.146	1632833.131	-81.527	RT90-RHB70	0.001	0.001	0.002			BT0754H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000056				13182236	6701734.328	1632827.955	-82.064	RT90-RHB70	0.001	0.001	0.002			BT0754V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000057				13182237	6701758.879	1632876.241	-83.136	RT90-RHB70	0.001	0.001	0.002			BT0806H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000058				13182238	6701798.895	1632905.736	-86.351	RT90-RHB70	0.001	0.001	0.002			BT0855V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000059				13182239	6701794.402	1632912.170	-86.959	RT90-RHB70	0.001	0.001	0.002			BT0856H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000060				13182240	6701834.270	1632933.657	-88.762	RT90-RHB70	0.001	0.001	0.003			



EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000063	13182243	6701860.060	1632950.069	-87.621	RT90-RHB70	0.001	0.001	0.003	BT0930V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000064	13182244	6701882.355	1632974.510	-84.692	RT90-RHB70	0.000	0.001	0.002	BT0962H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000065	13182245	6701901.005	1632982.645	-82.691	RT90-RHB70	0.001	0.001	0.002	BT0982V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000066	13182246	6701900.188	1632950.965	-84.150	RT90-RHB70	0.001	0.001	0.003	BT0986V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000067	13182247	6701897.973	1632994.272	-81.858	RT90-RHB70	0.001	0.001	0.003	BT0991H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000068	13182248	6701909.430	1633006.797	-80.351	RT90-RHB70	0.001	0.001	0.003	BT1008V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000069	13182249	6701930.831	1633080.993	-77.502	RT90-RHB70	0.001	0.001	0.003	BT1085V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000070	13182250	6701923.417	1633085.682	-77.713	RT90-RHB70	0.001	0.001	0.003	BT1087H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000071	13182251	6701935.146	1633102.776	-79.365	RT90-RHB70	0.001	0.001	0.003	BT1106H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000072	13182252	6701965.072	1633121.160	-82.349	RT90-RHB70	0.001	0.001	0.003	BT1139H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000073	13182253	6701978.054	1633120.396	-83.473	RT90-RHB70	0.001	0.001	0.003	BT1149V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000074	13182254	6701991.851	1633139.818	-83.467	RT90-RHB70	0.002	0.001	0.003	BT1170H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000075	13182255	6701973.347	1633008.584	-86.674	RT90-RHB70	0.001	0.001	0.003	CT0015H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000076	13182256	6701979.447	1632998.744	-86.680	RT90-RHB70	0.001	0.001	0.003	CT0015V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000077	13182257	6702013.364	1633022.122	-86.973	RT90-RHB70	0.001	0.001	0.003	CT0055V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000078	13182258	6702015.074	1633032.125	-85.924	RT90-RHB70	0.001	0.001	0.003	CT0061H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000079	13182259	6701216.386	1632298.300	-10.611	RT90-RHB70	0.001	0.001	0.001	DT0000V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000080	13182260	6701219.886	1632302.632	-10.754	RT90-RHB70	0.001	0.001	0.002	DT0001H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000081	13182261	6701329.432	1632306.159	-25.235	RT90-RHB70	0.001	0.001	0.002	DT0121V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000082	13182262	6701251.669	1632283.635	-14.977	RT90-RHB70	0.001	0.001	0.002	DT0038V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000083	13182263	6701258.637	1632288.940	-15.734	RT90-RHB70	0.001	0.001	0.002	DT0043H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000084	13182264	6701288.423	1632289.975	-19.514	RT90-RHB70	0.001	0.001	0.002	DT0076H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000085	13182265	6701292.541	1632284.998	-19.925	RT90-RHB70	0.001	0.001	0.002	DT0078V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000086	13182266	6701324.491	1632309.568	-25.061	RT90-RHB70	0.001	0.001	0.002	DT0120H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000087	13182267	6701329.433	1632306.160	-25.235	RT90-RHB70	0.001	0.001	0.002	DT0121V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000088	13182268	6701374.284	1632359.555	-33.448	RT90-RHB70	0.001	0.001	0.002	DT0190V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000089	13182269	6701372.342	1632366.200	-34.045	RT90-RHB70	0.001	0.001	0.002	DT0194H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000090	13182270	6701410.874	1632412.315	-41.106	RT90-RHB70	0.001	0.001	0.003	DT0255H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000091	13182271	6701447.812	1632448.196	-46.694	RT90-RHB70	0.001	0.001	0.002	DT0305V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000092	13182272	6701487.053	1632496.160	-53.075	RT90-RHB70	0.001	0.001	0.002	DT0368V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000093	13182273	6701482.870	1632500.293	-53.358	RT90-RHB70	0.001	0.001	0.002	DT0369H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000094	13182274	6701574.734	1632611.395	-64.977	RT90-RHB70	0.001	0.001	0.002	DT0513H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000095	13182275	6701579.295	1632607.867	-64.898	RT90-RHB70	0.001	0.001	0.002	DT0513V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000096	13182276	6701644.113	1632686.511	-67.695	RT90-RHB70	0.001	0.001	0.002	DT0615V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000097	13182277	6701682.254	1632732.775	-68.783	RT90-RHB70	0.001	0.001	0.002	DT0674V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000098	13182278	6701685.470	1632745.624	-68.880	RT90-RHB70	0.001	0.001	0.002	DT0685H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000099	13182279	6701739.490	1632811.919	-69.646	RT90-RHB70	0.001	0.001	0.002	DT0772H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000100	13182280	6701758.967	1632825.692	-69.942	RT90-RHB70	0.001	0.001	0.002	DT0795V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000101	13182281	6701828.233	1632903.909	-76.492	RT90-RHB70	0.001	0.001	0.003	DT0900V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000102	13182282	6701825.865	1632909.993	-76.438	RT90-RHB70	0.001	0.001	0.002	DT0902H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000103	13182283	6701900.186	1632950.965	-84.151	RT90-RHB70	0.001	0.001	0.003	DT0986V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000104	13182284	6701818.846	1632983.894	-94.059	RT90-RHB70	0.001	0.001	0.003	NBT0050V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000105	13182285	6701811.001	1632982.859	-94.113	RT90-RHB70	0.001	0.001	0.003	NBT0051H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000106	13182286	6701789.500	1633068.607	-106.138	RT90-RHB70	0.001	0.001	0.003	NBT0138H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000107	13182287	6701794.817	1633081.610	-107.034	RT90-RHB70	0.001	0.001	0.003	NBT0150H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000108	13182288	6701863.538	1633085.605	-116.156	RT90-RHB70	0.001	0.001	0.003	NBT0213V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000109	13182289	6701896.607	1633099.355	-120.746	RT90-RHB70	0.002	0.002	0.003	NBT0246H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000110	13182290	6701960.145	1633109.599	-129.937	RT90-RHB70	0.002	0.003	0.003	NBT0312H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000111	13182291	6702005.636	1633108.307	-131.675	RT90-RHB70	0.002	0.003	0.003	NBT0360H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000112	13182292	6702024.363	1633062.656	-134.824	RT90-RHB70	0.001	0.004	0.003	NBT0405V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000113	13182293	6702040.309	1633052.696	-135.408	RT90-RHB70	0.001	0.004	0.003	NBT0420H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000114	13182294	6702023.418	1633071.621	-84.940	RT90-RHB70	0.001	0.001	0.003	ST0033H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000115	13182295	6702032.011	1633076.389	-84.864	RT90-RHB70	0.001	0.001	0.003	ST0033V
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000116	13182296	6701997.232	1633114.755	-84.908	RT90-RHB70	0.001	0.001	0.003	ST0084H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000117	13182297	6701813.813	1632845.839	-81.535	RT90-RHB70	0.001	0.001	0.003	TT0054H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000118	13182298	6701841.070	1632822.891	-79.798	RT90-RHB70	0.001	0.001	0.003	TT0088H
EG180	2007.11.20 00:00:00	2007.11.23 00:00:00	PFR000119	13182299	6701862.480	1632799.165	-79.060	RT90-RHB70	0.001	0.001	0.003	TT0120H

<b>Table</b>	<b>borehole_surveying</b> Surveying: Borehole coordinates
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Column	Datatype	Unit	Column Description
site	CHAR		Site
project	VARCHAR		Project code
idcode	CHAR		Object or borehole identification code
start_date	INGRESDATE		Date
stop_date	INGRESDATE		Date
in_use	CHAR		flag
sign	CHAR		Activity QA signature
error_flag	CHAR		*: Data for the activity is erroneous and should not be used
length	FLOAT	m	Length along borehole
northing	FLOAT	m	Northing coordinate
easting	FLOAT	m	Easting coordinate
elevation	FLOAT	m.a.s.l.	elevation
northing_err	FLOAT	m	Northing coordinate error
easting_err	FLOAT	m	Easting coordinate error
elevation_err	FLOAT	m	Elevation error
coord_system	VARCHAR		Name of the coordinate system, example RAK38_RH70
is_endpoint	CHAR		Y if this is the borehole endpoint. Default N.
comment	CHAR		Comment
_rstate	CHAR		<Description is not available>
_qc_user	CHAR		<Description is not available>
_qc_indat	INGRESDATE		<Description is not available>
_user	CHAR		<Description is not available>
_indat	INGRESDATE		<Description is not available>

Key

idcode	start_date	stop_date	secup (m)	seclow (m)	section_no	length (m)	northing (m)	easting (m)	elevation (m.a.s.l.)	northing_err (m)	easting_err (m)
KFR01	2008-01-21 00:00	2008-01-21 00:00				0,00	6701434,832	1632453,419	-47,981		
KFR02	2008-01-21 00:00	2008-01-21 00:00				0,00	6701770,051	1632887,785	-85,428		
KFR03	2008-01-21 00:00	2008-01-21 00:00				0,00	6701908,962	1632997,744	-82,367		
KFR04	2008-01-21 00:00	2008-01-21 00:00				0,00	6701946,041	1633055,957	-77,186		
KFR05	2008-01-21 00:00	2008-01-21 00:00				0,00	6701946,037	1633056,582	-77,163		
KFR06	2008-01-21 00:00	2008-01-21 00:00				0,00	6701961,496	1633059,011	-76,286		
KFR08	2008-01-21 00:00	2008-01-21 00:00				0,00	6702071,231	1633066,451	-86,020		





