

Land Survey Overview

GNSS Solutions

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2017-12-14 23:28:18

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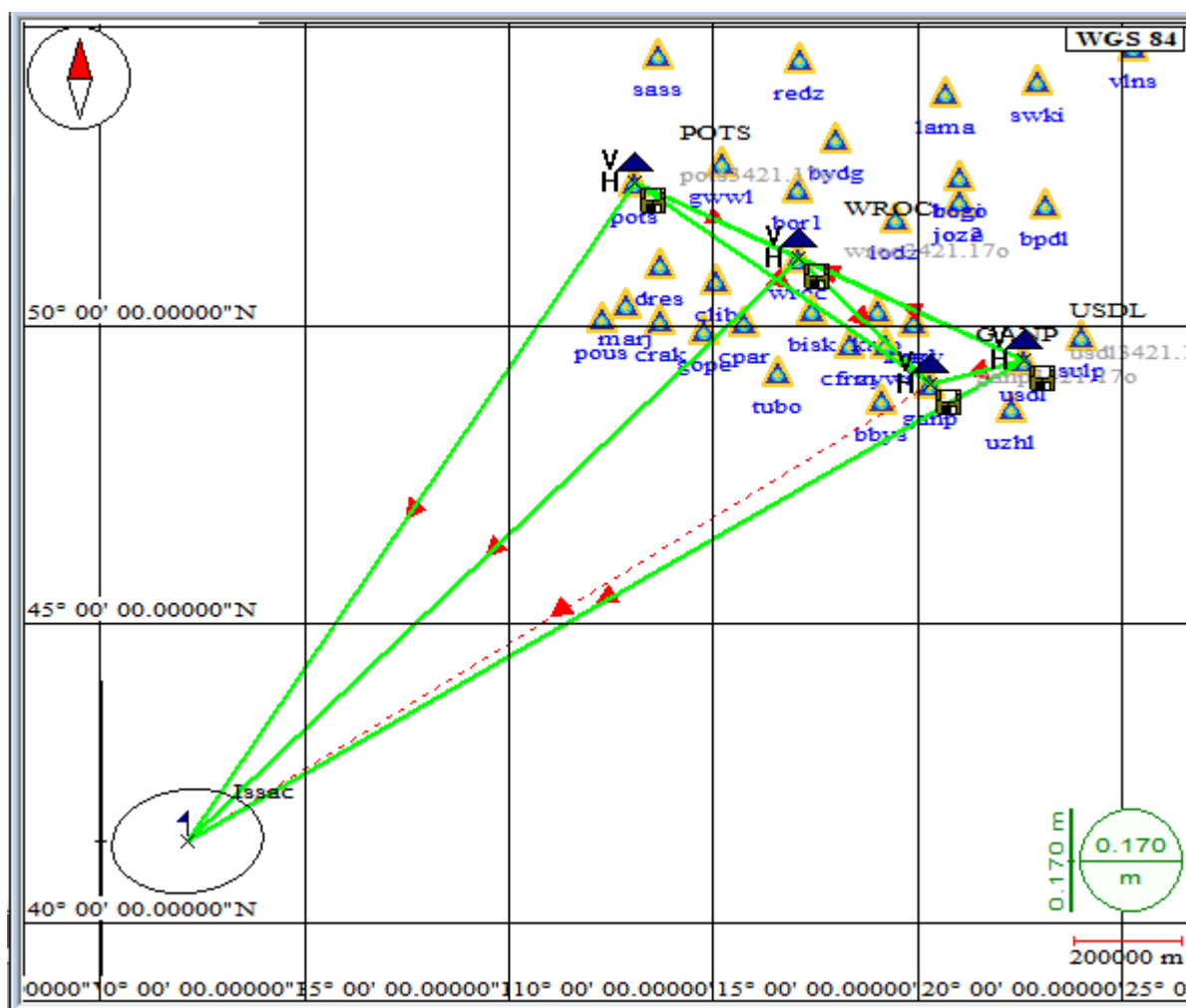
Project Name : Project90

Spatial Reference System : WGS 84

Time Zone : (UTC) Uniwersalny czas koordynowany

Linear Units : Meters

```
Control Points      : 4
Reference Points    : 0
Logged Points       : 1
Target Points       : 0
Intermediate Points : 0
```



Control Points

	Name	Components		95% Error	Status	Control
Error						
GANP	Long	20° 19'	22.55299"E	0.000	FIXED	
	Lat	49° 02'	04.95889"N	0.000	FIXED	
	Ellips height		746.022	0.000	FIXED	
	Description	GANP				
POTS	Long	13° 03'	57.91407"E	0.000	FIXED	
	Lat	52° 22'	45.46038"N	0.000	FIXED	
	Ellips height		144.420	0.000	FIXED	
	Description	POTS				
USDL	Long	22° 35'	08.76500"E	0.000	FIXED	
	Lat	49° 25'	58.46009"N	0.000	FIXED	
	Ellips height		529.742	0.000	FIXED	
	Description	USDL				
WROC	Long	17° 03'	43.32925"E	0.000	FIXED	
	Lat	51° 06'	47.72925"N	0.000	FIXED	
	Ellips height		180.818	0.000	FIXED	
	Description	WROC				

Logged Points

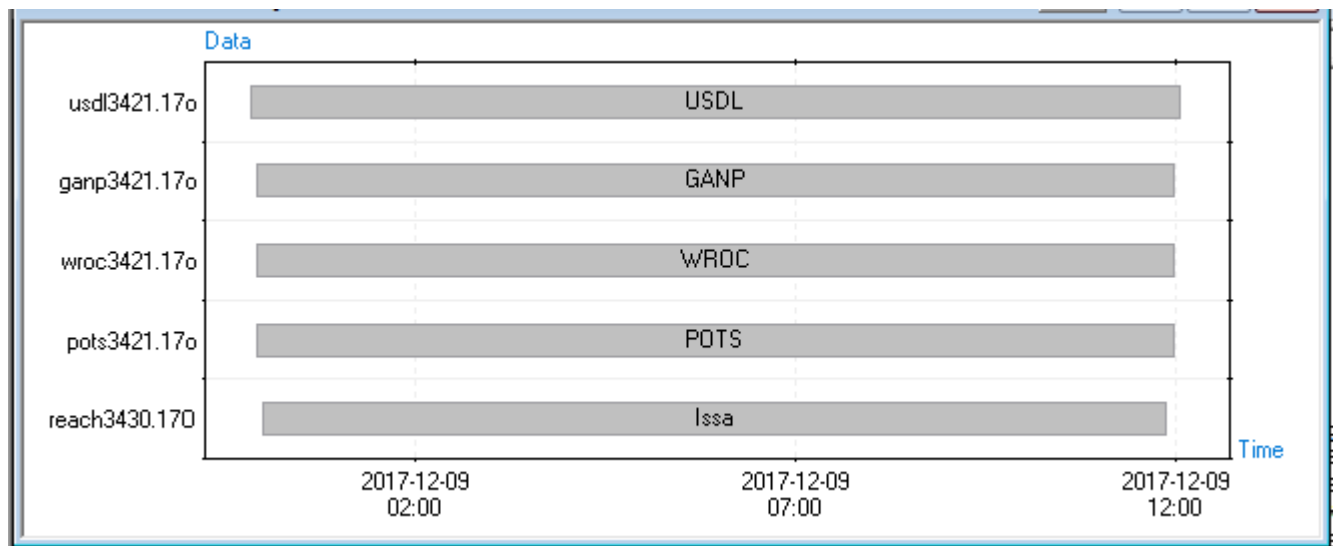
				95%	
Name	Components			Error	Status
Issac	Long	2° 08'	43.68007"E	0.248	Adjusted
	Lat	41° 23'	22.42084"N	0.174	Adjusted
	Ellips height		115.697	0.522	Adjusted
	Description	Issac			

Files

Name	Start Time	Sampling	Epochs	Size (Kb)	Type
reach3430.170	17/12/09 00:00:00	10	4294	2785	L1 GPS/GLONASS
ganp3421.17o	17/12/08 23:55:30	30	1453	3035	L1/L2 GPS/GLONASS
wroc3421.17o	17/12/08 23:55:30	30	1453	3781	L1/L2 GPS/GLONASS/WAAS
pots3421.17o	17/12/08 23:55:30	30	1453	3578	L1/L2 GPS/GLONASS
usdl3421.17o	17/12/08 23:50:30	30	1459	2786	L1/L2 GPS/GLONASS

Occupations

Site	Start Time	Time span	Type	File
Issa	9 grudzień 2017 00:00:00.00	11:55:30.00	Static	reach3430.170
GANP	8 grudzień 2017 23:55:30.00	12:05:30.00	Static	ganp3421.17o
WROC	8 grudzień 2017 23:55:30.00	12:05:30.00	Static	wroc3421.17o
POTS	8 grudzień 2017 23:55:30.00	12:05:30.00	Static	pots3421.17o
USDL	8 grudzień 2017 23:50:30.00	12:16:00.00	Static	usdl3421.17o



Processes

Reference	Reference File	Rover	Rover File	Mode	Num
USDL	usdl3421.17o	Issac	reach3430.170	Static	1
USDL	usdl3421.17o	POTS	pots3421.17o	Static	2
USDL	usdl3421.17o	GANP	ganp3421.17o	Static	3
USDL	usdl3421.17o	WROC	wroc3421.17o	Static	4
POTS	pots3421.17o	WROC	wroc3421.17o	Static	5
POTS	pots3421.17o	Issac	reach3430.170	Static	6
POTS	pots3421.17o	GANP	ganp3421.17o	Static	7
WROC	wroc3421.17o	Issac	reach3430.170	Static	8
WROC	wroc3421.17o	GANP	ganp3421.17o	Static	9
GANP	ganp3421.17o	Issac	reach3430.170	Static	10

Processed vectors

Vector Identifier	Vector Length	95% Error		Vector Components	95% Error	SV	PDOP	QA	Solution
WROC - GANP	328474.432	1.590	X	93430.292	0.645	10	1.5	No	Fixed
17/12/08 23:55:30.00			Y	277986.796	0.645				
+12:05:30.00			Z	-147951.257	0.645				
WROC - Issac	1568878.962	7.674	X	953072.906	3.123	10	2.4	No	Fixed
17/12/09 00:00:00.00			Y	-997845.606	3.101				
+11:55:30.00			Z	-746550.321	3.113				
POTS - WROC	309770.180	1.499	X	35061.652	0.608	10	1.6	No	Fixed
17/12/08 23:55:30.00			Y	295172.555	0.608				
+12:05:30.00			Z	-87186.052	0.608				
POTS - GANP	632701.656	3.064	X	128491.952	1.243	9	1.6	No	Fixed
17/12/08 23:55:30.00			Y	573159.371	1.242				
+12:05:30.00			Z	-235137.279	1.243				
POTS - Issac	1471487.664	7.228	X	988134.602	2.946	11	1.8	No	Fixed
17/12/09 00:00:00.00			Y	-702673.428	2.917				
+11:55:30.00			Z	-833736.173	2.932				
USDL - WROC	435679.320	2.109	X	-1806.648	0.856	9	1.6	No	Fixed
17/12/08 23:55:30.00			Y	-419053.319	0.855				
+12:05:30.00			Z	119195.308	0.856				
USDL - GANP	170650.401	0.825	X	91623.653	0.335	10	1.4	No	Fixed
17/12/08 23:55:30.00			Y	-141066.514	0.335				

+12:05:30.00			Z	-28755.936	0.334				
USDL - POTS	744359.554	3.601	X	-36868.289	1.462	9	1.6	No	Fixed
17/12/08 23:55:30.00			Y	-714225.892	1.461				
+12:05:30.00			Z	206381.320	1.459				
USDL - Issac	1818264.746	8.900	X	951266.026	3.623	10	2.2	No	Fixed
17/12/09 00:00:00.00			Y	-1416899.770	3.595				
+11:55:30.00			Z	-627355.302	3.611				

Adjusted vectors

Vector Identifier	Vector Length	Length Resid.		Vector Components	Resid.	Tau Test	QA
WROC - GANP	328474.434	0.030	X	93430.264	-0.028		
17/12/08 23:55:30.00			Y	277986.804	0.009		
			Z	-147951.263	-0.006		
WROC - Issac	1568879.174	0.388	X	953072.838	-0.067		
17/12/09 00:00:00.00			Y	-997845.987	-0.381		
			Z	-746550.343	-0.022		
POTS - WROC	309770.208	0.078	X	35061.702	0.050		
17/12/08 23:55:30.00			Y	295172.592	0.037		
			Z	-87186.005	0.046		
POTS - GANP	632701.678	0.031	X	128491.966	0.015		
17/12/08 23:55:30.00			Y	573159.396	0.025		
			Z	-235137.268	0.011		
POTS - Issac	1471487.706	0.188	X	988134.540	-0.062		
17/12/09 00:00:00.00			Y	-702673.395	0.033		
			Z	-833736.348	-0.175		
USDL - WROC	435679.319	0.039	X	-1806.621	0.027		
17/12/08 23:55:30.00			Y	-419053.311	0.008		
			Z	119195.334	0.026		
USDL - GANP	170650.388	0.015	X	91623.644	-0.010		
17/12/08 23:55:30.00			Y	-141066.507	0.008		
			Z	-28755.928	0.008		
USDL - POTS	744359.571	0.040	X	-36868.323	-0.034		
17/12/08 23:55:30.00			Y	-714225.903	-0.011		
			Z	206381.340	0.019		
USDL - Issac	1818264.377	0.588	X	951266.218	0.192		
17/12/09 00:00:00.00			Y	-1416899.298	0.472		
			Z	-627355.008	0.294		

L1/L2 post-processing is unavailable in this version

Process will continue using L1 data only

Performing adjustment...

FILLNET - Network Adjustment Package

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14 grudzień 2017 23:26:52

Network connectivity test: passed

Number of sites: 5

Number of vectors: 9

Adjustment type: Over constrained

Control sites Constraints

POTS Latitude Longitude Elevation

GANP	Latitude	Longitude	Elevation
WROC	Latitude	Longitude	Elevation
USDL	Latitude	Longitude	Elevation

Adjustment Tests

Confidence level: 95.0%
 Number of
 obs. equations 27
 unknowns 7
 degrees of freedom 20
 Chi-square test: **failed**
 Lower limit: 9.590777
 Upper limit: 34.169607
 Chi-square: 0.281281
 Variance of Unit Weight: 0.014064
 Standard Error of Unit Weight: 0.118592
 Critical value for Tau-test: 2.848970
 Scale factor for a-priori vector sigmas: 1.00

Reference Ellipsoid Parameters

Equatorial radius (semi-major axis): 6378137.000
 Reciprocal of flattening: 298.257223563

Adjusted Datum Bias Parameters

Bias Parameters In Geocentric Cartesian System

Rotation angle (seconds)	Value	Sigma
X	-0.039	0.014
Y	0.079	0.031
Z	-0.011	0.012

Scale correction (ppm)	0.004	0.043
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Bias Parameters In Mapping Plane Horizontal System

Rotation angle (seconds)	Value	Sigma
Northing	-0.008	0.016
Easting	-0.085	0.031
Height	0.022	0.007

Scale correction (ppm)	0.004	0.043
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Ok