Net adjust report

2023-05-15 21:50:18

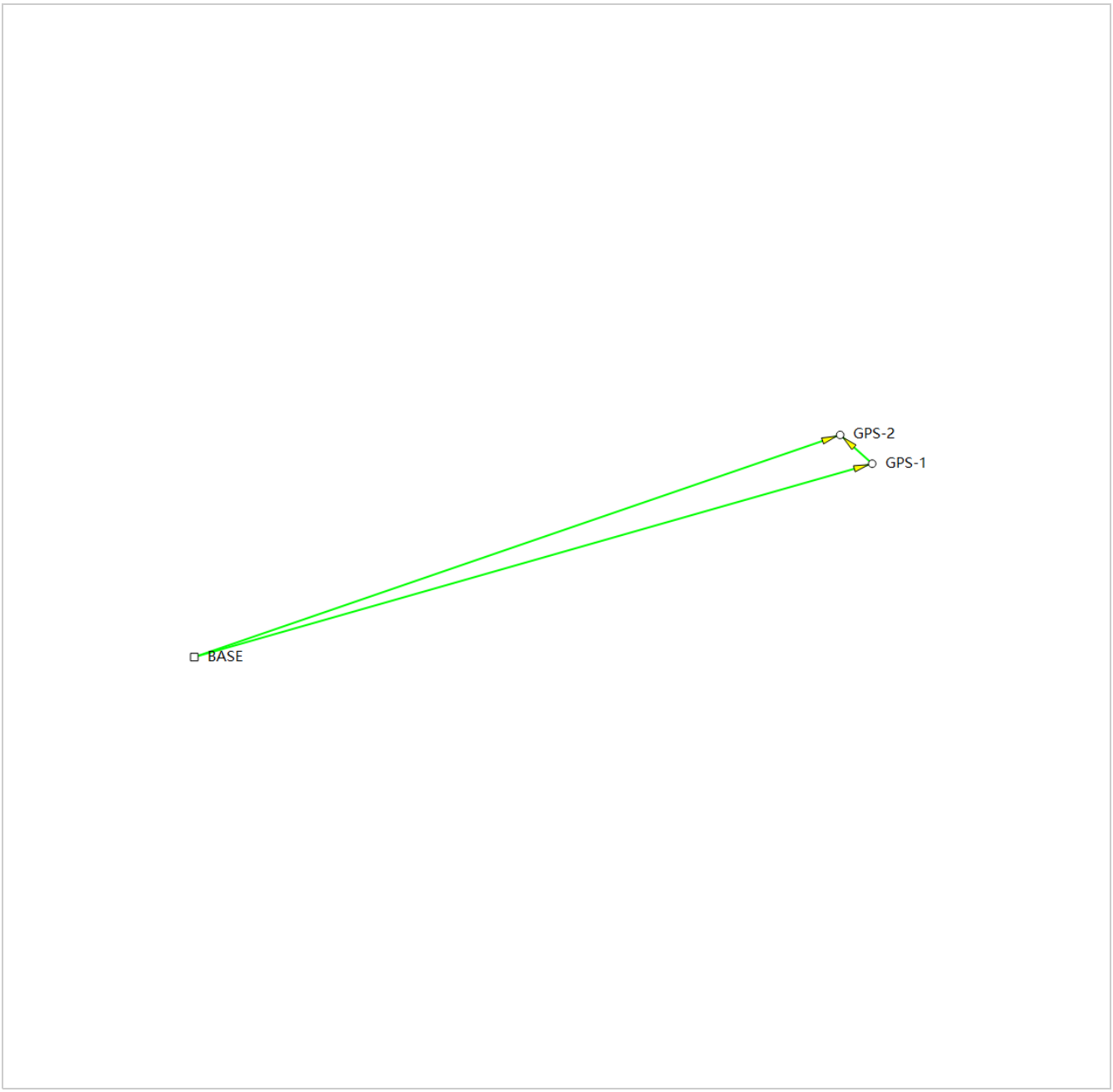
Report head

Project name:	BARANOA.sgo
The company of project :	BARANOA
Project start time:	2023-05-15 21:38:41

Coordinate system

ellipsoid_name	World Geodetic System 1984
ellipsoid_a	6378137
ellipsoid_f	298.257223562997
project_type	Gauss-Kruger
axis_direction	N-E
org_lon	74d04'39.02850"W
org_lat	4.5962004166668011
false_east	1e+6
false_north	1e+6
factor	1
project_height	-6.1

GNSS net picture



3D known point information

Point name	Point type	X(m)	Y(m)	Z(m)
BASE	XYZ	1629164.2333	-6050533.1994	1187255.0850

2D known point information

Point name	X(m)	Y(m)
BASE	1686189.3230	906770.8020

Free net adjustment result

Prior standard error of unit weight(m)	Posterior standard error of unit weight(m)	Root Mean Square Error(m)
0.0010	0.0867	0.0000

Baseline correction

Baseline name	Baseline X component(m)	Baseline Y component(m)	Baseline Z component(m)	Correction of baseline X component(m)	Correction of baseline Y component(m)	Correction of baseline Z component(m)
3904364CS-961789364A0	508.4499	170.7090	149.3917	0.2335	0.0610	-0.1534
3904364CS-961793364A0	483.5994	167.7673	171.6402	-0.3293	-0.0335	0.0390

961789364A0-961793364A0	-25.4500	-3.0406	22.4463	0.0367	0.0044	-0.0054

3D adjustment result(XYZ)

Point name	X(m)	Y(m)	Z(m)	XComponent RMSE(m)	YComponent RMSE(m)	ZComponent RMSE(m)
BASE	1629164.2333	-6050533.1994	1187255.0850	0.0026	0.0060	0.0036
GPS-1	1629672.9167	-6050362.4294	1187404.3233	0.1792	0.3200	0.1470
GPS-2	1629647.5034	-6050365.4656	1187426.7642	0.1828	0.3115	0.1402

3D adjustment result(BLH)

Point name	B	L	H(m)	BComponent RMSE(m)	LComponent RMSE(m)	HComponent RMSE(m)
BASE	10d47'58.32741"N	74d55'47.89514"W	123.1367	0.0037	0.0030	0.0057
GPS-1	10d48'03.29728"N	74d55'30.26455"W	119.0628	0.1558	0.1954	0.3082
GPS-2	10d48'04.03711"N	74d55'31.09831"W	119.6556	0.1490	0.1977	0.3003

2D adjustment result

Prior standard error of unit weight(m)	Posterior standard error of unit weight(m)	Root Mean Square Error(m)
0.0010	0.1249	0.1672

2D baseline and correction

Baseline name	X(m)	Y(m)	XComponent correction(m)	YComponent correction(m)
3904364CS-961789364A0	151.2240	536.0517	-0.1575	0.2339
3904364CS-961793364A0	174.0284	510.7816	0.0431	-0.3363
961789364A0-961793364A0	22.8044	-25.2701	-0.0067	0.0339

Coordinate of 2D adjustment

Point name	N(m)	E(m)	h(m)	XComponent RMSE(m)	YComponent RMSE(m)
BASE	1686189.3230	906770.8020	129.2370	0.0032	0.0022
GPS-1	1686340.5470	907306.8537	125.1634	0.1956	0.2196
GPS-2	1686363.3514	907281.5836	125.7562	0.1858	0.2240

Height fitting result

Fitting method	Posterior standard error of unit weight(m)	Root Mean Square Error(m)
Offset	0.0000	0.0000
Point name	Height(m)	if it is the known point?
BASE	129.2370	known point
GPS-1	125.1634	Unknown point
GPS-2	125.7562	Unknown point

Seven parameters

XAxis offset(m):	-0.12680131	XAxis rotation(sec):	0.00000000	axis scaling factor(ppm):	0.00000000
YAxis offset(m):	0.08466055	YAxis rotation(sec):	0.00000000		
ZAxis offset(m):	0.60657328	ZAxis rotation(sec):	0.00000000		

Four parameters

XAxis offset(m):	0.61765647	Rotation angle(sec):	0d00'00.00000"
YAxis offset(m):	-0.09871589	scaling factor:	1.00000000