Adjustment report

Property

Project name	250610_CPA_AE
Date created	2025-06-11 09:29:45
Adjustment type	Free,3D,2D,H
Confidence level	99.7%
Stations	2
Control stations	1
Vectors	1

Coor. system

Name of Coor. system	SIRGAS2000_22S
Major Semi-axis	6378137.0000
Flattening	1/298.25722210
Projection method	UTM
Projection Type	UTM
Zone	Zone=22(South)
Origin Lat.	B0=0:00:00.00N
Central Meridian	L0= 51:00:00.00000W
Northern Addition	N0=10000000.000000
Eastern Addition	E0=500000.000000

Baseline

Start point --> End point	Distance(m)	Azimuth	Height diff(m)	Solution	Ratio	RMS	Orbit	PDOP	HDOP	VDOP	GPS	Glonass	Beidou	Galileo
SCCA->CPA_AE	9828.6910	97:34:18	52.376	Fix	4.7	0.0119	Broadcast	0.0013	0.0012	0.0005	11	8	0	0

3D non-constraint adjustment

Adjustment parameter

Base	WGS-84
Alternate amount	2
Free	0

Free adjustment coordinate

Station	latitude/RMS(m)	longtitude/RMS(m)	Height/RMS(m)	RMS(m)	GSF	ESF	CSF
SCCA	26:46:47.01998S/0.0000	51:02:21.52727W/0.0000	969.1951/0.0000	0.0000	0.9996001885	0.9998477634	0.9994480128
CPA_AE	26:47:28.97023S/0.0000	50:56:28.85508W/0.0000	1021.5715/0.0000	0.0000	0.9996004196	0.9998395378	0.9994400215

Free adjustment coordinateECEF

Station	X/RMS(m)	Y/RMS(m)	Z/RMS(m)	RMS(m)	GSF	ESF	CSF
SCCA	3583325.1619/0.0000	-4431251.4038/0.0000	-2856884.6116/0.0000	0.0000	0.9996001885	0.9998477634	0.9994480128
CPA_AE	3590559.2566/0.0000	-4424702.5743/0.0000	-2858060.9935/0.0000	0.0000	0.9996004196	0.9998395378	0.9994400215

2D constraint adjustment

Adjustment parameter

Alternate amount	2
x(north)Move(Offset)	0.0001 m
y(east)Move(Offset)	-0.0001 m
Scale	0.0000 ppm
Rotate	0.0000 s

2D adjustment distance

Start point	End point	North(x)/RMS(m)	East(y)/RMS(m)	2D distance(m)	RMS(m)	Relative error
SCCA	CPA_AE	-1291.3617/0.0014	9737.8376/0.0014	9823.0900	0.0020	1: 4911544

2D coordinate

Station	North(x)/RMS(m)	East(y)/RMS(m)	RMS(m)	E(m)	F(m)	ET(Degree:Minute:Second)
SCCA	7037960.9482/--	496091.9694/--				
CPA_AE	7036669.5865/0.0015	505829.8070/0.0015	0.0014	0.0010	0.0010	0:00:00

2D coordinateBLH

Station	latitude/RMS(m)	longtitude/RMS(m)	Height/RMS(m)	RMS(m)	GSF	ESF	CSF
SCCA	26:46:47.01997S/0.0000	51:02:21.52726W/0.0000	969.1951/0.0000		0.9996001885	0.9998477634	0.9994480128
CPA_AE	26:47:28.97022S/0.0015	50:56:28.85507W/0.0015	1021.5715/0.0000	0.0014	0.9996004196	0.9998395378	0.9994400215

Height fitting

Adjustment parameter

Alternate amount	1
Reference station	SCCA
Fitting function	H = H0 + A
A	0

Height fitting Coor.

Station	Height(m)	RMS(m)
SCCA	969.1951	
CPA_AE	1021.5715	0.0060

[2025-06-11 09:29:45]

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Data: 13/05/2026 16:29:42-0300
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