

Adjustment report

Property

Project name	franco2
Date created	2022-06-28 07:00:28
Adjustment type	Free,3D,2D,H
Confidence level	95.4%
Stations	5
Control stations	1
Vectors	7

Coor. system

Name of Coor. system	WGS84 17S
Major Semi-axis	6378137.0000
Flattening	1/298.25722356
Projection method	UTM
Projection Type	UTM
Zone	Zone=17(South)
Origin Lat.	B0=0:00:00.00N
Central Meridian	L0= 80:59:59.99999W
Northern Addition	N0=10000000.000000
Eastern Addition	E0=500000.000000



Creado electrónicamente por:
**JAVIER ENRIQUE
CARDENAS CHILAN**
Validar únicamente con FirmaEC

Baseline

Start point --> End point	Distance(m)	Azimuth	Height diff(m)	Solution	Ratio	RMS	Orbit	PDOP	HDOP	VDOP	GPS	Glonass	Beidou	Galileo
GQEC->ROVER3	31762.1099	99:15:41	7.203	Fix	6.6	0.0169	Broadcast	0.0009	0.0008	0.0003	11	4	0	6
GQEC->ROVER2	29157.9220	97:09:18	5.150	Fix	3.3	0.0188	Broadcast	0.0014	0.0014	0.0003	10	3	0	5
GQEC->ROVER1	29104.1426	97:06:38	5.204	Fix	1.9	0.0210	Broadcast	0.0020	0.0019	0.0006	10	5	0	8
GQEC->PLACA IGM	28683.1785	109:54:03	8.529	Fix	1.1	0.0164	Broadcast	0.0003	0.0003	0.0001	14	7	0	9
ROVER3->PLACA IGM	6387.7746	223:15:04	1.312	Fix	7.4	0.0171	Broadcast	0.0005	0.0005	0.0002	11	4	8	6
ROVER2->PLACA IGM	6437.5754	197:43:16	3.382	Fix	2.7	0.0206	Broadcast	0.0008	0.0008	0.0002	10	3	8	5
ROVER1->PLACA IGM	6450.1199	197:12:52	3.337	Fix	2.6	0.0192	Broadcast	0.0009	0.0008	0.0003	10	6	8	8

3D non-constraint adjustment

Adjustment parameter

Base	WGS-84
Alternate amount	2
Reference factor	13.21
Free	9

Baseline and correction

Start point --> End point	DX/Correction(m)	DY/Correction(m)	DZ/Correction(m)	Distance/Correction(m)	RMS/Relative error(m)
GQEC->ROVER3	30813.5505/-0.0000	5769.9104/-0.0081	-5105.3629/0.0040	31762.1078/-0.0021	0.0056/1: 5674804
GQEC->ROVER2	28445.6387/0.0028	5279.8181/0.0036	-3626.8128/0.0001	29157.9254/0.0033	0.0076/1: 3857068
GQEC->ROVER1	28396.1034/-0.0051	5269.5603/0.0084	-3597.7699/0.0020	29104.1389/-0.0037	0.0083/1: 3518594
GQEC->PLACA IGM	26475.8300/0.0012	5158.1762/0.0017	-9754.4076/-0.0007	28683.1802/0.0016	0.0039/1: 7442761
ROVER3->PLACA IGM	-4337.7205/-0.0008	-611.7342/-0.0057	-4649.0447/0.0027	6387.7738/-0.0009	0.0053/1: 1203922
ROVER2->PLACA IGM	-1969.8087/0.0018	-121.6419/0.0024	-6127.5948/0.0006	6437.5742/-0.0012	0.0074/1: 867488
ROVER1->PLACA IGM	-1920.2734/-0.0023	-111.3841/0.0042	-6156.6377/0.0009	6450.1197/-0.0002	0.0078/1: 822788

Free adjustment coordinate

Station	long. /RMS(m)	lat. /RMS(m)	Height/RMS(m)	RMS(m)	GSF	ESF	CSF
GQEC	2:10:02.58730S/0.0013	79:52:43.23669W/0.0018	27.2840/0.0024	0.0032	0.9997924748	0.9999957079	0.9997881836
PLACA IGM	2:15:20.38417S/0.0012	79:38:10.36611W/0.0015	35.8114/0.0021	0.0028	0.9998846997	0.9999943665	0.9998790668
ROVER1	2:11:59.79738S/0.0027	79:37:08.58594W/0.0029	32.4791/0.0051	0.0065	0.9998919338	0.9999948907	0.9998868250
ROVER2	2:12:00.74368S/0.0023	79:37:06.94926W/0.0033	32.4310/0.0046	0.0061	0.9998921260	0.9999948983	0.9998870248
ROVER3	2:12:48.91345S/0.0021	79:35:48.71248W/0.0024	34.4943/0.0033	0.0046	0.9999013867	0.9999945737	0.9998959609

2D constraint adjustment

Adjustment parameter

Alternate amount	2
Reference factor	13.2125
x(north)Move(Offset)	0.0000 m
y(east)Move(Offset)	-0.0000 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
GQEC	ROVER3	-5134.4085/0.0026	31339.2516/0.0031	31757.0598	0.0040	1: 7897070
GQEC	ROVER2	-3652.7393/0.0029	28923.4255/0.0043	29153.1653	0.0052	1: 5633355
GQEC	ROVER1	-3623.6296/0.0036	28872.8852/0.0039	29099.3848	0.0053	1: 5478056
GQEC	PLACA IGM	-9782.2933/0.0016	26958.4253/0.0023	28678.3883	0.0028	1:10402342
ROVER3	PLACA IGM	-4647.8848/0.0025	-4380.8264/0.0029	6387.0551	0.0039	1: 1658132
ROVER2	PLACA IGM	-6129.5540/0.0029	-1965.0002/0.0042	6436.8205	0.0051	1: 1270420
ROVER1	PLACA IGM	-6158.6637/0.0034	-1914.4600/0.0035	6449.3640	0.0049	1: 1315770

2D coordinate

Station	North(x)/RMS(m)	East(y)/RMS(m)	RMS(m)	E(m)	F(m)	ET(Degree:Minute:Second)
GQEC	9760391.4984/--	624694.5159/--				
PLACA IGM	9750609.2051/0.0016	651652.9412/0.0023	0.0028	0.0023	0.0016	84:46:31
ROVER1	9756767.8688/0.0036	653567.4011/0.0039	0.0053	0.0040	0.0035	114:50:25
ROVER2	9756738.7591/0.0029	653617.9414/0.0043	0.0052	0.0043	0.0028	101:16:45
ROVER3	9755257.0899/0.0026	656033.7675/0.0031	0.0040	0.0031	0.0026	75:05:52

Height fitting

Adjustment parameter

Alternate amount	1
Reference station	GQEC
Fitting function	H = H0 + A
A	-1.92162E-005

Height fitting Coord.

Station	Height(m)	RMS(m)
GQEC	10.3947	
PLACA IGM	18.6469	0.0021
ROVER1	14.8689	0.0051
ROVER2	14.8203	0.0046
ROVER3	16.8577	0.0033

[2022-06-28 07:00:28 Compass Solution] SinoGNSS