

Datos del archivo del proyecto		Sistema de coordenadas	
Nombre:	C:\Users\GEO JMC\Documents\Trimble Business Center\TENO_27-01-20.vce	Nombre:	World wide/UTM
Tamaño:	185 KB	Datum:	SIRGAS2000
Modificado/a:	04-02-2020 0:37:45 (UTC:-3)	Zona:	19 South
Zona horaria:		Geoide:	egm08_cl
Número de referencia:		Datum vertical:	
Descripción:			
Comentario 1:			
Comentario 2:			
Comentario 3:			

Informe de ajuste de red

Configuraciones del ajuste

Errores de configuración

GNSS

Error en la altura de antena: 0.003 m

Error de centrado: 0.000 m

Visualización de la covarianza

Horizontal:

Error lineal propagado [E]: EE.UU.

Término constante [C]: 0.000 m

Escalar en error lineal [S]: 1.960

Tridimensional

Error lineal propagado [E]: EE.UU.

Término constante [C]: 0.000 m

Escalar en error lineal [S]: 1.960

Estadísticas del ajuste

Número de iteraciones para un ajuste exitoso: 2

Factor de referencia de red: 1.00

Prueba de chi al cuadrado (95%): Pasado

Nivel de confianza de la precisión: 95%

Grados de libertad: 312

Estadísticas de vectores con posprocesamiento

Factor de referencia: 1.00

Número de redundancias: 312.00

Escalar a priori: 1.30

Límites de punto de control

ID de punto	Tipo	Este σ (Metro)	Norte σ (Metro)	Altura σ (Metro)	Elevación σ (Metro)
SBL	Cuadrícula	Fijo	Fijo		Fijo
Fijo = 0.000001(Metro)					

Coordenadas de cuadrícula ajustadas

ID de punto	Este (Metro)	Este Error (Metro)	Valor norte (Metro)	Valor norte Error (Metro)	Elevación (Metro)	Elevación Error (Metro)	Límite
PR01	314670.712	0.003	6133868.991	0.003	421.104	0.011	
PR02	315289.517	0.003	6133384.857	0.003	430.772	0.010	
PR03	316449.679	0.002	6132232.769	0.003	444.930	0.011	
PR04	316930.513	0.002	6131803.823	0.002	451.424	0.008	
PR05	317342.039	0.002	6131433.433	0.002	460.809	0.008	
PR06	318375.676	0.002	6130770.791	0.002	478.170	0.009	
PR07	323653.009	0.002	6128456.900	0.003	534.344	0.009	
PR08	324058.008	0.002	6128331.402	0.003	544.408	0.009	
PR09	328446.991	0.003	6128225.824	0.003	626.940	0.011	
PR10	328781.766	0.004	6128248.340	0.003	635.091	0.011	
SBL	337089.052	?	6148568.782	?	872.309	?	ENe

Coordenadas geodésicas ajustadas

ID de punto	Latitud	Longitud	Altura (Metro)	Altura Error (Metro)	Límite
PR01	S34.920728311	O71.028866846	444.786	0.011	
PR02	S34.925204191	O71.022203385	454.500	0.010	
PR03	S34.935797467	O71.009762219	468.746	0.011	
PR04	S34.939750093	O71.004594350	475.277	0.008	
PR05	S34.943162316	O71.000171692	484.695	0.008	
PR06	S34.949319900	O70.989003326	502.143	0.009	
PR07	S34.971105976	O70.931729291	558.821	0.009	
PR08	S34.972307487	O70.927321612	568.926	0.009	
PR09	S34.974012462	O70.879288361	651.923	0.011	
PR10	S34.973866227	O70.875618165	660.111	0.011	
SBLI	S34.792084613	O70.780699496	898.530	?	ENe

Coordenadas ECEF ajustadas

ID de punto	X (Metro)	X Error (Metro)	Y (Metro)	Y Error (Metro)	Z (Metro)	Z Error (Metro)	3D Error (Metro)	Límite
PR01	1702125.351	0.004	4951433.485	0.009	3630914.095	0.007	0.012	
PR02	1702611.329	0.004	4950974.197	0.008	3631326.817	0.006	0.011	
PR03	1703471.157	0.004	4949979.092	0.008	3632298.537	0.006	0.011	
PR04	1703837.617	0.003	4949593.021	0.007	3632661.777	0.005	0.009	
PR05	1704151.593	0.003	4949263.773	0.007	3632977.506	0.005	0.009	
PR06	1704993.479	0.003	4948575.038	0.007	3633547.491	0.005	0.009	
PR07	1709502.013	0.003	4945603.075	0.007	3635560.940	0.005	0.009	
PR08	1709860.204	0.003	4945407.163	0.007	3635675.969	0.005	0.009	
PR09	1713992.287	0.004	4943933.794	0.009	3635878.550	0.007	0.012	
PR10	1714314.222	0.004	4943839.116	0.009	3635869.948	0.007	0.012	

SBL	1726363.477	?	4952068.838	?	3619461.204	?	?	ENe
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Componentes de la elipse de error

ID de punto	Semieje mayor (Metro)	Semieje menor (Metro)	Acimut
PR01	0.004	0.003	11°
PR02	0.004	0.003	15°
PR03	0.003	0.003	179°
PR04	0.003	0.002	176°
PR05	0.003	0.002	178°
PR06	0.003	0.002	2°
PR07	0.003	0.003	25°
PR08	0.003	0.003	29°
PR09	0.004	0.004	46°
PR10	0.005	0.004	47°

Observaciones GNSS ajustadas

ID de observación		Observación	Error a posteriori	Residual	Estandarizada Residual
SBL --> PR06 (PV126)	Acimut	227°27'17"	0.017 seg	0.009 seg	0.264
	ΔAlt.	-396.387 m	0.009 m	-0.010 m	-0.288
	Dist. elip	25826.423 m	0.002 m	-0.012 m	-3.526
PR04 --> PR05 (PV80)	Acimut	133°08'13"	0.573 seg	0.406 seg	0.262
	ΔAlt.	9.418 m	0.007 m	-0.046 m	-3.455
	Dist. elip	553.656 m	0.002 m	-0.002 m	-0.420
SBL --> PR04 (PV147)	Acimut	231°16'10"	0.017 seg	-0.002 seg	-0.080
	ΔAlt.	-423.253 m	0.008 m	-0.030 m	-1.334
	Dist. elip	26219.703 m	0.002 m	-0.008 m	-3.015
SBL --> PR05 (PV117)	Acimut	230°04'07"	0.017 seg	-0.046 seg	-1.573

	ΔAlt.	-413.835 m	0.008 m	-0.058 m	-2.188
	Dist. elip	26145.897 m	0.002 m	-0.008 m	-2.952
PR08 --> PR07 (PV99)	Acimut	288°19'18"	0.887 seg	-4.388 seg	-2.768
	ΔAlt.	-10.105 m	0.007 m	0.014 m	1.296
	Dist. elip	424.005 m	0.001 m	0.000 m	0.122
SBLL --> PR10 (PV141)	Acimut	203°15'15"	0.032 seg	0.026 seg	0.573
	ΔAlt.	-238.419 m	0.011 m	0.042 m	2.739
	Dist. elip	21954.164 m	0.004 m	0.003 m	0.618
SBLL --> PR04 (PV128)	Acimut	231°16'10"	0.017 seg	0.100 seg	2.649
	ΔAlt.	-423.253 m	0.008 m	0.004 m	0.227
	Dist. elip	26219.703 m	0.002 m	-0.008 m	-1.202
SBLL --> PR06 (PV148)	Acimut	227°27'17"	0.017 seg	0.102 seg	2.577
	ΔAlt.	-396.387 m	0.009 m	-0.021 m	-1.104
	Dist. elip	25826.423 m	0.002 m	-0.007 m	-1.076
PR08 --> PR05 (PV63)	Acimut	295°53'47"	0.081 seg	-0.187 seg	-1.040
	ΔAlt.	-84.231 m	0.010 m	0.037 m	2.528
	Dist. elip	7397.786 m	0.003 m	0.003 m	0.602
PR08 --> PR07 (PV86)	Acimut	288°19'18"	0.887 seg	4.448 seg	2.527
	ΔAlt.	-10.105 m	0.007 m	0.002 m	0.177
	Dist. elip	424.005 m	0.001 m	-0.002 m	-0.884
SBLL --> PR05 (PV119)	Acimut	230°04'07"	0.017 seg	-0.014 seg	-0.400
	ΔAlt.	-413.835 m	0.008 m	-0.033 m	-2.068
	Dist. elip	26145.897 m	0.002 m	0.012 m	2.422
SBLL --> PR04 (PV143)	Acimut	231°16'10"	0.017 seg	-0.023 seg	-0.653
	ΔAlt.	-423.253 m	0.008 m	-0.036 m	-2.413
	Dist. elip	26219.703 m	0.002 m	0.008 m	1.969
PR08 --> PR06 (PV40)	Acimut	294°20'18"	0.094 seg	-0.129 seg	-0.693

	ΔAlt.	-66.783 m	0.010 m	0.031 m	2.308
	Dist. elip	6183.848 m	0.002 m	0.001 m	0.260
SBLL --> PR08 (PV132)	Acimut	213°47'48"	0.020 seg	-0.019 seg	-0.596
	ΔAlt.	-329.604 m	0.009 m	0.030 m	2.293
	Dist. elip	24070.999 m	0.003 m	-0.002 m	-0.508
SBLL --> PR06 (PV131)	Acimut	227°27'17"	0.017 seg	0.022 seg	0.830
	ΔAlt.	-396.387 m	0.009 m	-0.049 m	-1.727
	Dist. elip	25826.423 m	0.002 m	0.007 m	2.277
PR01 --> PR02 (PV101)	Acimut	129°12'01"	0.828 seg	-0.383 seg	-0.590
	ΔAlt.	9.714 m	0.012 m	0.008 m	0.772
	Dist. elip	785.671 m	0.003 m	-0.004 m	-2.259
SBLL --> PR02 (PV135)	Acimut	236°09'36"	0.021 seg	-0.074 seg	-2.096
	ΔAlt.	-444.030 m	0.010 m	-0.035 m	-2.229
	Dist. elip	26567.078 m	0.003 m	0.004 m	0.923
SBLL --> PR06 (PV130)	Acimut	227°27'17"	0.017 seg	-0.013 seg	-0.354
	ΔAlt.	-396.387 m	0.009 m	0.015 m	0.994
	Dist. elip	25826.423 m	0.002 m	0.012 m	2.077
SBLL --> PR03 (PV124)	Acimut	232°39'24"	0.021 seg	0.000 seg	-0.009
	ΔAlt.	-429.784 m	0.011 m	-0.027 m	-1.803
	Dist. elip	26322.807 m	0.003 m	0.009 m	2.061
SBLL --> PR07 (PV113)	Acimut	214°45'51"	0.019 seg	0.019 seg	0.540
	ΔAlt.	-339.709 m	0.009 m	0.029 m	2.038
	Dist. elip	24188.177 m	0.003 m	0.000 m	0.092
SBLL --> PR07 (PV120)	Acimut	214°45'51"	0.019 seg	0.050 seg	1.737
	ΔAlt.	-339.709 m	0.009 m	-0.031 m	-1.046
	Dist. elip	24188.177 m	0.003 m	0.007 m	1.981
PR08 --> PR07 (PV106)	Acimut	288°19'18"	0.887 seg	6.906 seg	1.957

	ΔAlt.	-10.105 m	0.007 m	-0.015 m	-0.867
	Dist. elip	424.005 m	0.001 m	-0.001 m	-0.195
PR06 --> PR07 (PV107)	Acimut	114°48'56"	0.099 seg	-0.447 seg	-1.391
	ΔAlt.	56.677 m	0.010 m	-0.035 m	-1.949
	Dist. elip	5762.350 m	0.002 m	-0.004 m	-0.683
SBLL --> PR04 (PV145)	Acimut	231°16'10"	0.017 seg	-0.032 seg	-0.803
	ΔAlt.	-423.253 m	0.008 m	-0.032 m	-1.943
	Dist. elip	26219.703 m	0.002 m	0.002 m	0.476
PR04 --> PR03 (PV55)	Acimut	312°53'03"	0.649 seg	0.986 seg	1.942
	ΔAlt.	-6.531 m	0.009 m	0.013 m	1.252
	Dist. elip	644.347 m	0.002 m	0.001 m	0.673
PR04 --> PR05 (PV79)	Acimut	133°08'13"	0.573 seg	-1.965 seg	-1.907
	ΔAlt.	9.418 m	0.007 m	-0.001 m	-0.054
	Dist. elip	553.656 m	0.002 m	-0.002 m	-0.513
PR07 --> PR05 (PV105)	Acimut	296°21'28"	0.085 seg	-0.174 seg	-0.611
	ΔAlt.	-74.126 m	0.009 m	0.036 m	1.876
	Dist. elip	6977.705 m	0.002 m	-0.004 m	-0.569
PR06 --> PR07 (PV108)	Acimut	114°48'56"	0.099 seg	-0.246 seg	-0.696
	ΔAlt.	56.677 m	0.010 m	-0.031 m	-1.725
	Dist. elip	5762.350 m	0.002 m	-0.006 m	-0.748
SBLL --> PR08 (PV133)	Acimut	213°47'48"	0.020 seg	-0.006 seg	-0.173
	ΔAlt.	-329.604 m	0.009 m	0.025 m	1.692
	Dist. elip	24070.999 m	0.003 m	0.001 m	0.189
SBLL --> PR07 (PV112)	Acimut	214°45'51"	0.019 seg	0.006 seg	0.157
	ΔAlt.	-339.709 m	0.009 m	0.014 m	0.999
	Dist. elip	24188.177 m	0.003 m	0.009 m	1.680
SBLL --> PR05 (PV121)	Acimut	230°04'07"	0.017 seg	0.003 seg	0.067

	ΔAlt.	-413.835 m	0.008 m	0.003 m	0.222
	Dist. elip	26145.897 m	0.002 m	0.010 m	1.650
PR07 --> PR05 (PV104)	Acimut	296°21'28"	0.085 seg	-0.166 seg	-0.548
	ΔAlt.	-74.126 m	0.009 m	0.031 m	1.638
	Dist. elip	6977.705 m	0.002 m	-0.004 m	-0.534
SBLL --> PR01 (PV136)	Acimut	237°45'54"	0.022 seg	0.035 seg	0.741
	ΔAlt.	-453.744 m	0.011 m	-0.020 m	-0.945
	Dist. elip	26808.635 m	0.003 m	-0.008 m	-1.598
PR07 --> PR05 (PV97)	Acimut	296°21'28"	0.085 seg	0.007 seg	0.031
	ΔAlt.	-74.126 m	0.009 m	0.026 m	1.598
	Dist. elip	6977.705 m	0.002 m	0.000 m	0.045
PR06 --> PR02 (PV103)	Acimut	311°24'18"	0.144 seg	0.155 seg	0.541
	ΔAlt.	-47.644 m	0.011 m	0.013 m	0.816
	Dist. elip	4044.412 m	0.003 m	0.006 m	1.580
SBLL --> PR02 (PV134)	Acimut	236°09'36"	0.021 seg	-0.036 seg	-0.916
	ΔAlt.	-444.030 m	0.010 m	-0.027 m	-1.579
	Dist. elip	26567.078 m	0.003 m	0.004 m	0.854
SBLL --> PR04 (PV140)	Acimut	231°16'10"	0.017 seg	-0.026 seg	-0.656
	ΔAlt.	-423.253 m	0.008 m	0.001 m	0.030
	Dist. elip	26219.703 m	0.002 m	-0.009 m	-1.577
PR05 --> PR03 (PV72)	Acimut	312°59'54"	0.407 seg	-0.973 seg	-1.525
	ΔAlt.	-15.949 m	0.010 m	0.002 m	0.171
	Dist. elip	1198.001 m	0.002 m	-0.003 m	-0.823
PR06 --> PR07 (PV98)	Acimut	114°48'56"	0.099 seg	0.128 seg	0.521
	ΔAlt.	56.677 m	0.010 m	-0.022 m	-1.481
	Dist. elip	5762.350 m	0.002 m	-0.001 m	-0.101
SBLL --> PR07 (PV114)	Acimut	214°45'51"	0.019 seg	0.022 seg	0.554

	ΔAlt.	-339.709 m	0.009 m	0.026 m	1.467
	Dist. elip	24188.177 m	0.003 m	0.001 m	0.161
SBLL --> PR01 (PV138)	Acimut	237°45'54"	0.022 seg	0.052 seg	1.460
	ΔAlt.	-453.744 m	0.011 m	-0.003 m	-0.155
	Dist. elip	26808.635 m	0.003 m	-0.002 m	-0.315
SBLL --> PR03 (PV125)	Acimut	232°39'24"	0.021 seg	-0.043 seg	-1.176
	ΔAlt.	-429.784 m	0.011 m	-0.022 m	-1.445
	Dist. elip	26322.807 m	0.003 m	0.006 m	1.379
SBLL --> PR10 (PV142)	Acimut	203°15'15"	0.032 seg	0.027 seg	0.507
	ΔAlt.	-238.419 m	0.011 m	0.022 m	1.440
	Dist. elip	21954.164 m	0.004 m	0.005 m	0.978
PR04 --> PR02 (PV100)	Acimut	315°04'55"	0.217 seg	-0.125 seg	-0.251
	ΔAlt.	-20.777 m	0.009 m	-0.009 m	-0.587
	Dist. elip	2278.675 m	0.002 m	0.006 m	1.401
PR08 --> PR06 (PV41)	Acimut	294°20'18"	0.094 seg	0.015 seg	0.131
	ΔAlt.	-66.783 m	0.010 m	-0.003 m	-0.114
	Dist. elip	6183.848 m	0.002 m	0.004 m	1.346
PR08 --> PR07 (PV109)	Acimut	288°19'18"	0.887 seg	3.219 seg	1.213
	ΔAlt.	-10.105 m	0.007 m	-0.001 m	-0.091
	Dist. elip	424.005 m	0.001 m	0.004 m	1.292
SBLL --> PR09 (PV122)	Acimut	204°02'07"	0.030 seg	-0.012 seg	-0.246
	ΔAlt.	-246.607 m	0.011 m	0.021 m	1.289
	Dist. elip	22103.736 m	0.004 m	-0.005 m	-0.963
PR01 --> PR06 (PV29)	Acimut	131°03'56"	0.123 seg	0.135 seg	0.540
	ΔAlt.	57.357 m	0.011 m	-0.021 m	-1.245
	Dist. elip	4829.586 m	0.003 m	0.000 m	-0.078
PR08 --> PR10 (PV38)	Acimut	92°06'45"	0.140 seg	0.052 seg	0.274

	ΔAlt.	91.184 m	0.011 m	-0.017 m	-1.239
	Dist. elip	4724.624 m	0.003 m	-0.001 m	-0.156
PR04 --> PR05 (PV71)	Acimut	133°08'13"	0.573 seg	1.403 seg	1.189
	ΔAlt.	9.418 m	0.007 m	0.004 m	0.224
	Dist. elip	553.656 m	0.002 m	0.002 m	0.549
PR04 --> PR02 (PV35)	Acimut	315°04'55"	0.217 seg	-0.009 seg	-0.029
	ΔAlt.	-20.777 m	0.009 m	0.000 m	-0.005
	Dist. elip	2278.675 m	0.002 m	-0.004 m	-1.178
PR04 --> PR06 (PV48)	Acimut	126°42'23"	0.226 seg	-0.156 seg	-0.702
	ΔAlt.	26.867 m	0.008 m	-0.008 m	-0.708
	Dist. elip	1776.398 m	0.002 m	0.003 m	1.161
PR04 --> PR02 (PV102)	Acimut	315°04'55"	0.217 seg	0.033 seg	0.044
	ΔAlt.	-20.777 m	0.009 m	0.012 m	0.597
	Dist. elip	2278.675 m	0.002 m	0.008 m	1.143
PR08 --> PR09 (PV57)	Acimut	92°28'59"	0.144 seg	0.010 seg	0.054
	ΔAlt.	82.997 m	0.010 m	-0.014 m	-1.117
	Dist. elip	4390.375 m	0.003 m	0.001 m	0.247
PR08 --> PR07 (PV91)	Acimut	288°19'18"	0.887 seg	-1.403 seg	-1.116
	ΔAlt.	-10.105 m	0.007 m	0.001 m	0.080
	Dist. elip	424.005 m	0.001 m	-0.002 m	-0.802
PR06 --> PR05 (PV62)	Acimut	303°48'10"	0.324 seg	0.124 seg	0.190
	ΔAlt.	-17.449 m	0.008 m	0.012 m	1.087
	Dist. elip	1227.792 m	0.002 m	0.001 m	0.306
PR04 --> PR03 (PV52)	Acimut	312°53'03"	0.649 seg	0.253 seg	0.449
	ΔAlt.	-6.531 m	0.009 m	0.004 m	0.362
	Dist. elip	644.347 m	0.002 m	-0.002 m	-1.029
SBLI --> PR06 (PV127)	Acimut	227°27'17"	0.017 seg	0.003 seg	0.060

	ΔAlt.	-396.387 m	0.009 m	-0.017 m	-0.658
	Dist. elip	25826.423 m	0.002 m	-0.007 m	-1.020
PR05 --> PR02 (PV75)	Acimut	314°41'57"	0.192 seg	-0.368 seg	-0.999
	ΔAlt.	-30.195 m	0.010 m	-0.003 m	-0.210
	Dist. elip	2832.074 m	0.002 m	-0.005 m	-0.938
SBLL --> PR09 (PV123)	Acimut	204°02'07"	0.030 seg	0.012 seg	0.289
	ΔAlt.	-246.607 m	0.011 m	0.014 m	0.994
	Dist. elip	22103.736 m	0.004 m	-0.002 m	-0.358
PR09 --> PR07 (PV89)	Acimut	273°50'13"	0.134 seg	-0.164 seg	-0.801
	ΔAlt.	-93.102 m	0.010 m	0.014 m	0.990
	Dist. elip	4799.677 m	0.003 m	0.001 m	0.205
PR02 --> PR03 (PV49)	Acimut	135°57'29"	0.326 seg	0.065 seg	0.212
	ΔAlt.	14.246 m	0.010 m	-0.001 m	-0.099
	Dist. elip	1634.988 m	0.002 m	-0.002 m	-0.965
SBLL --> PR01 (PV137)	Acimut	237°45'54"	0.022 seg	-0.031 seg	-0.712
	ΔAlt.	-453.744 m	0.011 m	-0.017 m	-0.680
	Dist. elip	26808.635 m	0.003 m	-0.006 m	-0.960
PR04 --> PR06 (PV27)	Acimut	126°42'23"	0.226 seg	0.437 seg	0.555
	ΔAlt.	26.867 m	0.008 m	-0.008 m	-0.463
	Dist. elip	1776.398 m	0.002 m	-0.005 m	-0.937
PR04 --> PR01 (PV28)	Acimut	313°34'17"	0.178 seg	-0.319 seg	-0.657
	ΔAlt.	-30.491 m	0.010 m	-0.008 m	-0.478
	Dist. elip	3061.254 m	0.002 m	0.005 m	0.915
PR06 --> PR07 (PV65)	Acimut	114°48'56"	0.099 seg	0.072 seg	0.603
	ΔAlt.	56.677 m	0.010 m	0.021 m	0.897
	Dist. elip	5762.350 m	0.002 m	0.002 m	0.661
PR10 --> PR07 (PV93)	Acimut	273°24'14"	0.131 seg	-0.075 seg	-0.296

	ΔAlt.	-101.290 m	0.011 m	0.015 m	0.874
	Dist. elip	5133.138 m	0.003 m	-0.003 m	-0.563
PR08 --> PR05 (PV67)	Acimut	295°53'47"	0.081 seg	0.038 seg	0.244
	ΔAlt.	-84.231 m	0.010 m	0.008 m	0.460
	Dist. elip	7397.786 m	0.003 m	0.004 m	0.872
PR01 --> PR05 (PV76)	Acimut	133°31'08"	0.156 seg	0.005 seg	0.025
	ΔAlt.	39.909 m	0.011 m	-0.004 m	-0.260
	Dist. elip	3614.897 m	0.003 m	0.004 m	0.868
PR07 --> PR10 (PV87)	Acimut	93°26'10"	0.131 seg	0.134 seg	0.354
	ΔAlt.	101.290 m	0.011 m	-0.015 m	-0.860
	Dist. elip	5133.138 m	0.003 m	0.006 m	0.864
PR08 --> PR07 (PV95)	Acimut	288°19'18"	0.887 seg	0.525 seg	0.520
	ΔAlt.	-10.105 m	0.007 m	-0.003 m	-0.262
	Dist. elip	424.005 m	0.001 m	-0.002 m	-0.831
PR04 --> PR01 (PV42)	Acimut	313°34'17"	0.178 seg	-0.290 seg	-0.745
	ΔAlt.	-30.491 m	0.010 m	-0.012 m	-0.706
	Dist. elip	3061.254 m	0.002 m	0.001 m	0.276
PR09 --> PR07 (PV94)	Acimut	273°50'13"	0.134 seg	0.107 seg	0.390
	ΔAlt.	-93.102 m	0.010 m	0.012 m	0.704
	Dist. elip	4799.677 m	0.003 m	0.003 m	0.524
PR08 --> PR10 (PV37)	Acimut	92°06'45"	0.140 seg	-0.244 seg	-0.551
	ΔAlt.	91.184 m	0.011 m	-0.018 m	-0.665
	Dist. elip	4724.624 m	0.003 m	-0.008 m	-0.701
PR09 --> PR10 (PV61)	Acimut	87°13'47"	1.585 seg	0.037 seg	0.028
	ΔAlt.	8.187 m	0.010 m	-0.007 m	-0.700
	Dist. elip	335.544 m	0.003 m	0.001 m	0.437
PR04 --> PR01 (PV31)	Acimut	313°34'17"	0.178 seg	-0.154 seg	-0.360

	ΔAlt.	-30.491 m	0.010 m	0.004 m	0.193
	Dist. elip	3061.254 m	0.002 m	0.005 m	0.694
PR09 --> PR07 (PV85)	Acimut	273°50'13"	0.134 seg	0.221 seg	0.672
	ΔAlt.	-93.102 m	0.010 m	0.001 m	0.072
	Dist. elip	4799.677 m	0.003 m	0.003 m	0.542
PR08 --> PR09 (PV60)	Acimut	92°28'59"	0.144 seg	0.013 seg	0.065
	ΔAlt.	82.997 m	0.010 m	-0.007 m	-0.492
	Dist. elip	4390.375 m	0.003 m	0.003 m	0.650
PR06 --> PR05 (PV69)	Acimut	303°48'10"	0.324 seg	-0.299 seg	-0.384
	ΔAlt.	-17.449 m	0.008 m	0.014 m	0.636
	Dist. elip	1227.792 m	0.002 m	-0.001 m	-0.341
PR09 --> PR10 (PV58)	Acimut	87°13'47"	1.585 seg	0.084 seg	0.038
	ΔAlt.	8.187 m	0.010 m	0.008 m	0.631
	Dist. elip	335.544 m	0.003 m	0.002 m	0.405
PR06 --> PR05 (PV73)	Acimut	303°48'10"	0.324 seg	-0.037 seg	-0.119
	ΔAlt.	-17.449 m	0.008 m	0.004 m	0.348
	Dist. elip	1227.792 m	0.002 m	0.001 m	0.628
PR09 --> PR10 (PV59)	Acimut	87°13'47"	1.585 seg	-0.124 seg	-0.117
	ΔAlt.	8.187 m	0.010 m	-0.001 m	-0.125
	Dist. elip	335.544 m	0.003 m	0.001 m	0.625
PR02 --> PR03 (PV53)	Acimut	135°57'29"	0.326 seg	0.026 seg	0.078
	ΔAlt.	14.246 m	0.010 m	-0.001 m	-0.089
	Dist. elip	1634.988 m	0.002 m	-0.002 m	-0.624
PR04 --> PR03 (PV51)	Acimut	312°53'03"	0.649 seg	-0.015 seg	-0.009
	ΔAlt.	-6.531 m	0.009 m	0.006 m	0.379
	Dist. elip	644.347 m	0.002 m	-0.003 m	-0.585
PR04 --> PR01 (PV32)	Acimut	313°34'17"	0.178 seg	0.046 seg	0.191

	ΔAlt.	-30.491 m	0.010 m	0.003 m	0.207
	Dist. elip	3061.254 m	0.002 m	0.002 m	0.581
SBLl --> PR08 (PV139)	Acimut	213°47'48"	0.020 seg	0.003 seg	0.083
	ΔAlt.	-329.604 m	0.009 m	-0.008 m	-0.580
	Dist. elip	24070.999 m	0.003 m	0.002 m	0.356
PR04 --> PR03 (PV50)	Acimut	312°53'03"	0.649 seg	0.733 seg	0.560
	ΔAlt.	-6.531 m	0.009 m	0.005 m	0.374
	Dist. elip	644.347 m	0.002 m	0.000 m	-0.096
PR01 --> PR05 (PV77)	Acimut	133°31'08"	0.156 seg	-0.039 seg	-0.091
	ΔAlt.	39.909 m	0.011 m	-0.012 m	-0.546
	Dist. elip	3614.897 m	0.003 m	0.003 m	0.459
PR06 --> PR05 (PV74)	Acimut	303°48'10"	0.324 seg	-0.569 seg	-0.485
	ΔAlt.	-17.449 m	0.008 m	0.009 m	0.384
	Dist. elip	1227.792 m	0.002 m	-0.003 m	-0.534
PR08 --> PR07 (PV90)	Acimut	288°19'18"	0.887 seg	0.203 seg	0.102
	ΔAlt.	-10.105 m	0.007 m	-0.003 m	-0.224
	Dist. elip	424.005 m	0.001 m	-0.002 m	-0.531
PR04 --> PR05 (PV84)	Acimut	133°08'13"	0.573 seg	-0.163 seg	-0.076
	ΔAlt.	9.418 m	0.007 m	-0.009 m	-0.526
	Dist. elip	553.656 m	0.002 m	0.000 m	0.055
PR04 --> PR02 (PV33)	Acimut	315°04'55"	0.217 seg	0.045 seg	0.081
	ΔAlt.	-20.777 m	0.009 m	0.007 m	0.453
	Dist. elip	2278.675 m	0.002 m	-0.003 m	-0.525
PR01 --> PR06 (PV46)	Acimut	131°03'56"	0.123 seg	-0.086 seg	-0.442
	ΔAlt.	57.357 m	0.011 m	-0.011 m	-0.517
	Dist. elip	4829.586 m	0.003 m	0.002 m	0.478
PR04 --> PR06 (PV43)	Acimut	126°42'23"	0.226 seg	0.229 seg	0.342

	ΔAlt.	26.867 m	0.008 m	-0.004 m	-0.250
	Dist. elip	1776.398 m	0.002 m	-0.002 m	-0.511
PR04 --> PR05 (PV81)	Acimut	133°08'13"	0.573 seg	0.178 seg	0.506
	ΔAlt.	9.418 m	0.007 m	0.000 m	0.009
	Dist. elip	553.656 m	0.002 m	0.000 m	-0.015
PR08 --> PR09 (PV56)	Acimut	92°28'59"	0.144 seg	0.083 seg	0.252
	ΔAlt.	82.997 m	0.010 m	0.010 m	0.496
	Dist. elip	4390.375 m	0.003 m	-0.001 m	-0.140
PR04 --> PR02 (PV34)	Acimut	315°04'55"	0.217 seg	-0.121 seg	-0.176
	ΔAlt.	-20.777 m	0.009 m	0.007 m	0.371
	Dist. elip	2278.675 m	0.002 m	-0.003 m	-0.462
PR08 --> PR07 (PV64)	Acimut	288°19'18"	0.887 seg	0.383 seg	0.461
	ΔAlt.	-10.105 m	0.007 m	0.003 m	0.274
	Dist. elip	424.005 m	0.001 m	0.000 m	0.008
PR08 --> PR10 (PV39)	Acimut	92°06'45"	0.140 seg	-0.043 seg	-0.207
	ΔAlt.	91.184 m	0.011 m	-0.001 m	-0.039
	Dist. elip	4724.624 m	0.003 m	-0.003 m	-0.460
PR07 --> PR05 (PV66)	Acimut	296°21'28"	0.085 seg	-0.035 seg	-0.192
	ΔAlt.	-74.126 m	0.009 m	0.008 m	0.447
	Dist. elip	6977.705 m	0.002 m	0.001 m	0.256
PR04 --> PR05 (PV78)	Acimut	133°08'13"	0.573 seg	0.198 seg	0.130
	ΔAlt.	9.418 m	0.007 m	-0.007 m	-0.435
	Dist. elip	553.656 m	0.002 m	0.002 m	0.410
PR04 --> PR02 (PV36)	Acimut	315°04'55"	0.217 seg	0.127 seg	0.422
	ΔAlt.	-20.777 m	0.009 m	0.006 m	0.433
	Dist. elip	2278.675 m	0.002 m	-0.001 m	-0.187
PR04 --> PR06 (PV45)	Acimut	126°42'23"	0.226 seg	0.215 seg	0.416

	ΔAlt.	26.867 m	0.008 m	-0.005 m	-0.255
	Dist. elip	1776.398 m	0.002 m	-0.001 m	-0.153
PR10 --> PR07 (PV92)	Acimut	273°24'14"	0.131 seg	-0.125 seg	-0.389
	ΔAlt.	-101.290 m	0.011 m	0.000 m	0.000
	Dist. elip	5133.138 m	0.003 m	0.001 m	0.153
PR07 --> PR10 (PV96)	Acimut	93°26'10"	0.131 seg	0.026 seg	0.086
	ΔAlt.	101.290 m	0.011 m	-0.010 m	-0.385
	Dist. elip	5133.138 m	0.003 m	-0.001 m	-0.137
PR04 --> PR01 (PV30)	Acimut	313°34'17"	0.178 seg	-0.102 seg	-0.321
	ΔAlt.	-30.491 m	0.010 m	0.002 m	0.115
	Dist. elip	3061.254 m	0.002 m	0.001 m	0.124
PR07 --> PR09 (PV88)	Acimut	93°52'02"	0.134 seg	0.078 seg	0.259
	ΔAlt.	93.102 m	0.010 m	0.004 m	0.224
	Dist. elip	4799.677 m	0.003 m	0.002 m	0.319
PR01 --> PR06 (PV44)	Acimut	131°03'56"	0.123 seg	0.019 seg	0.076
	ΔAlt.	57.357 m	0.011 m	-0.003 m	-0.111
	Dist. elip	4829.586 m	0.003 m	-0.002 m	-0.316
PR02 --> PR03 (PV54)	Acimut	135°57'29"	0.326 seg	0.043 seg	0.045
	ΔAlt.	14.246 m	0.010 m	-0.006 m	-0.290
	Dist. elip	1634.988 m	0.002 m	-0.002 m	-0.311
PR04 --> PR06 (PV47)	Acimut	126°42'23"	0.226 seg	-0.127 seg	-0.180
	ΔAlt.	26.867 m	0.008 m	-0.006 m	-0.266
	Dist. elip	1776.398 m	0.002 m	-0.001 m	-0.171
PR01 --> PR05 (PV70)	Acimut	133°31'08"	0.156 seg	0.081 seg	0.244
	ΔAlt.	39.909 m	0.011 m	-0.005 m	-0.191
	Dist. elip	3614.897 m	0.003 m	0.000 m	-0.052
PR06 --> PR05 (PV68)	Acimut	303°48'10"	0.324 seg	-0.128 seg	-0.244

	ΔAlt.	-17.449 m	0.008 m	0.001 m	0.055
	Dist. elip	1227.792 m	0.002 m	0.001 m	0.241
PR02 --> PR05 (PV83)	Acimut	134°42'43"	0.192 seg	0.030 seg	0.043
	ΔAlt.	30.195 m	0.010 m	-0.007 m	-0.241
	Dist. elip	2832.074 m	0.002 m	0.000 m	-0.025
PR05 --> PR03 (PV82)	Acimut	312°59'54"	0.407 seg	0.171 seg	0.152
	ΔAlt.	-15.949 m	0.010 m	0.003 m	0.187
	Dist. elip	1198.001 m	0.002 m	0.001 m	0.095

Términos de covarianza

Punto de origen	Al punto		Componentes	Error a posteriori	Precisión horiz. (Razón)	Precisión 3D (Razón)
PR01	PR02	Acimut	129°12'01"	0.830 seg	1 : 293483	1 : 291505
		ΔAlt.	9.714 m	0.012 m		
		ΔElev.	9.668 m	0.012 m		
		Dist. elip	785.671 m	0.003 m		
PR01	PR04	Acimut	133°35'07"	0.179 seg	1 : 1263086	1 : 1251165
		ΔAlt.	30.491 m	0.010 m		
		ΔElev.	30.320 m	0.010 m		
		Dist. elip	3061.254 m	0.002 m		
PR01	PR05	Acimut	133°31'08"	0.157 seg	1 : 1402328	1 : 1387789
		ΔAlt.	39.909 m	0.011 m		
		ΔElev.	39.705 m	0.011 m		
		Dist. elip	3614.897 m	0.003 m		
PR01	PR06	Acimut	131°03'56"	0.123 seg	1 : 1845469	1 : 1827342
		ΔAlt.	57.357 m	0.011 m		
		ΔElev.	57.066 m	0.011 m		
		Dist. elip	4829.586 m	0.003 m		
PR01	SBLL	Acimut	57°54'25"	0.022 seg	1 : 9433017	1 : 9487876

		ΔAlt.	453.744 m	0.011 m		
		ΔElev.	451.205 m	0.011 m		
		Dist. elip	26808.635 m	0.003 m		
PR02	SBLI	Acimut	56°17'53"	0.021 seg	1 : 9589758	1 : 9541392
		ΔAlt.	444.030 m	0.010 m		
		ΔElev.	441.537 m	0.010 m		
		Dist. elip	26567.078 m	0.003 m		
PR03	PR02	Acimut	315°57'04"	0.326 seg	1 : 668687	1 : 666821
		ΔAlt.	-14.246 m	0.010 m		
		ΔElev.	-14.158 m	0.010 m		
		Dist. elip	1634.988 m	0.002 m		
PR03	PR05	Acimut	133°00'14"	0.408 seg	1 : 498350	1 : 495732
		ΔAlt.	15.949 m	0.010 m		
		ΔElev.	15.879 m	0.010 m		
		Dist. elip	1198.001 m	0.002 m		
PR03	SBLI	Acimut	52°47'16"	0.021 seg	1 : 10194366	1 : 10150743
		ΔAlt.	429.784 m	0.011 m		
		ΔElev.	427.379 m	0.011 m		
		Dist. elip	26322.807 m	0.003 m		
PR04	PR02	Acimut	315°04'55"	0.217 seg	1 : 1043701	1 : 1040641
		ΔAlt.	-20.777 m	0.009 m		
		ΔElev.	-20.651 m	0.009 m		
		Dist. elip	2278.675 m	0.002 m		
PR04	PR03	Acimut	312°53'03"	0.651 seg	1 : 323100	1 : 321838
		ΔAlt.	-6.531 m	0.009 m		
		ΔElev.	-6.493 m	0.009 m		
		Dist. elip	644.347 m	0.002 m		
PR04	PR05	Acimut	133°08'13"	0.575 seg	1 : 330096	1 : 326959
		ΔAlt.	9.418 m	0.007 m		
		ΔElev.	9.386 m	0.007 m		
		Dist. elip	553.656 m	0.002 m		

PR04	PR06	Acimut	126°42'23"	0.227 seg	1 : 933796	1 : 927022
		ΔAlt.	26.867 m	0.008 m		
		ΔElev.	26.747 m	0.008 m		
		Dist. elip	1776.398 m	0.002 m		
PR04	SBL	Acimut	51°23'51"	0.017 seg	1 : 12859283	1 : 12836455
		ΔAlt.	423.253 m	0.008 m		
		ΔElev.	420.886 m	0.008 m		
		Dist. elip	26219.703 m	0.002 m		
PR05	PR02	Acimut	314°41'57"	0.192 seg	1 : 1136879	1 : 1132476
		ΔAlt.	-30.195 m	0.010 m		
		ΔElev.	-30.037 m	0.010 m		
		Dist. elip	2832.074 m	0.002 m		
PR05	PR07	Acimut	116°23'49"	0.085 seg	1 : 2850274	1 : 2846666
		ΔAlt.	74.126 m	0.009 m		
		ΔElev.	73.535 m	0.009 m		
		Dist. elip	6977.705 m	0.002 m		
PR05	SBL	Acimut	50°11'39"	0.017 seg	1 : 12410933	1 : 12390782
		ΔAlt.	413.835 m	0.008 m		
		ΔElev.	411.500 m	0.008 m		
		Dist. elip	26145.897 m	0.002 m		
PR06	PR02	Acimut	311°24'18"	0.145 seg	1 : 1561067	1 : 1555112
		ΔAlt.	-47.644 m	0.011 m		
		ΔElev.	-47.398 m	0.011 m		
		Dist. elip	4044.412 m	0.003 m		
PR06	PR05	Acimut	303°48'10"	0.325 seg	1 : 673076	1 : 668970
		ΔAlt.	-17.449 m	0.008 m		
		ΔElev.	-17.361 m	0.008 m		
		Dist. elip	1227.792 m	0.002 m		
PR06	PR07	Acimut	114°48'56"	0.099 seg	1 : 2426816	1 : 2422973
		ΔAlt.	56.677 m	0.010 m		
		ΔElev.	56.174 m	0.010 m		

		Dist. elip	5762.350 m	0.002 m		
PR06	SBL	Acimut	47°34'25"	0.017 seg	1 : 12107614	1 : 12106801
		ΔAlt.	396.387 m	0.009 m		
		ΔElev.	394.139 m	0.009 m		
		Dist. elip	25826.423 m	0.002 m		
PR07	SBL	Acimut	34°51'02"	0.019 seg	1 : 9410059	1 : 9408490
		ΔAlt.	339.709 m	0.009 m		
		ΔElev.	337.965 m	0.009 m		
		Dist. elip	24188.177 m	0.003 m		
PR08	PR05	Acimut	295°53'47"	0.081 seg	1 : 2948695	1 : 2947812
		ΔAlt.	-84.231 m	0.010 m		
		ΔElev.	-83.599 m	0.010 m		
		Dist. elip	7397.786 m	0.003 m		
PR08	PR06	Acimut	294°20'18"	0.094 seg	1 : 2535622	1 : 2533900
		ΔAlt.	-66.783 m	0.010 m		
		ΔElev.	-66.238 m	0.010 m		
		Dist. elip	6183.848 m	0.002 m		
PR08	PR07	Acimut	288°19'18"	0.888 seg	1 : 283069	1 : 283411
		ΔAlt.	-10.105 m	0.007 m		
		ΔElev.	-10.063 m	0.007 m		
		Dist. elip	424.005 m	0.001 m		
PR08	PR09	Acimut	92°28'59"	0.144 seg	1 : 1414439	1 : 1428102
		ΔAlt.	82.997 m	0.010 m		
		ΔElev.	82.532 m	0.010 m		
		Dist. elip	4390.375 m	0.003 m		
PR08	SBL	Acimut	33°52'49"	0.020 seg	1 : 9156845	1 : 9146666
		ΔAlt.	329.604 m	0.009 m		
		ΔElev.	327.901 m	0.009 m		
		Dist. elip	24070.999 m	0.003 m		
PR09	PR07	Acimut	273°50'13"	0.134 seg	1 : 1556505	1 : 1571698
		ΔAlt.	-93.102 m	0.010 m		

		ΔElev.	-92.595 m	0.010 m		
		Dist. elip	4799.677 m	0.003 m		
PR09	SBLL	Acimut	24°05'30"	0.030 seg	1 : 6297860	1 : 6295876
		ΔAlt.	246.607 m	0.011 m		
		ΔElev.	245.369 m	0.011 m		
		Dist. elip	22103.736 m	0.004 m		
PR10	PR07	Acimut	273°24'14"	0.131 seg	1 : 1577689	1 : 1590298
		ΔAlt.	-101.290 m	0.011 m		
		ΔElev.	-100.746 m	0.011 m		
		Dist. elip	5133.138 m	0.003 m		
PR10	PR08	Acimut	272°04'58"	0.140 seg	1 : 1445155	1 : 1456596
		ΔAlt.	-91.184 m	0.011 m		
		ΔElev.	-90.683 m	0.011 m		
		Dist. elip	4724.624 m	0.003 m		
PR10	PR09	Acimut	267°13'40"	1.586 seg	1 : 128014	1 : 128753
		ΔAlt.	-8.187 m	0.010 m		
		ΔElev.	-8.151 m	0.010 m		
		Dist. elip	335.544 m	0.003 m		
PR10	SBLL	Acimut	23°18'30"	0.032 seg	1 : 6090667	1 : 6088628
		ΔAlt.	238.419 m	0.011 m		
		ΔElev.	237.218 m	0.011 m		
		Dist. elip	21954.164 m	0.004 m		

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