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2.3.1. cskm - CREF0001

# GNSS Processing Report - Summary

## Request Details

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General	User Details
Processed at: 2025-03-05 12:36:16	User name: Bagoes
SBC version: 7.10.0.114	Name: BAGOES PUTRO
	Company: PT.ICH I HUTANI MANUNGGAL
	E-Mail: bagoes.putro@gmail.com

# 1. Point Results

Point-ID	Solution Type	Occupations / Baselines	WGS84 Latitude	WGS84 Longitude	WGS84 Ellip. Height [m]	SD Latitude	SD Longitude	SD Height
CREF0001	Phase Fixed	3/3	2° 29' 07.9297" S	110° 37' 37.9184" E	52.5078 m	0.0020 m	0.0049 m	0.0052 m

Point-ID	Solution Type	Occupations / Baselines	WGS84 Cartesian X	WGS84 Cartesian Y	WGS84 Cartesian Z	SD X	SD Y	SD Z
CREF0001	Phase Fixed	3/3	-2244846.9270 m	5963720.7399 m	-274754.1597 m	0.0050 m	0.0052 m	0.0020 m

2.1. CREF0001 - 2025-03-01 07:59:41

Point Occupation Results

Marker Name:	CREF0001	Receiver Type / SN:	Trimble NetR9 / 5245K53278
		Antenna Type / SN:	TRM57971.00 NONE / -
Occupation Start:	2025-03-01 07:59:41	Occupation End:	2025-03-01 11:59:40

Averaged Point Summary: CREF0001

Weighted Average:	Yes		
WGS84 Latitude:	2° 29' 07.9296" S	SD Latitude:	0.0001 m
WGS84 Longitude:	110° 37' 37.9182" E	SD Longitude:	0.0001 m
WGS84 Ellip.Height:	52.5022 m	SD Height:	0.0006 m
WGS84 Cartesian X:	-2244846.9195 m	SD X:	0.0002 m
WGS84 Cartesian Y:	5963720.7369 m	SD Y:	0.0006 m
WGS84 Cartesian Z:	-274754.1568 m	SD Z:	0.0001 m
Easting:	-	SD Easting:	-
Northing:	-	SD Northing:	-
Ellip. Height:	-	SD Height:	-
Ortho. Height:	-		

Baseline Summary CREF0001

Point-ID	Reference	Baseline Length [m]	3D CQ [m]	ΔX	ΔY	ΔZ	X	Y	Z
CREF0001							-2244846.9195 m	5963720.7369 m	-274754.1568 m
	cskm	68339.0986 m	0.0006 m	0.0000 m	0.0000 m	0.0000 m	-2244846.9195 m	5963720.7369 m	-274754.1568 m

Baseline Results

2.1.1. Baseline: cskm - CREF0001

Used Processing Parameters

Cut-Off Angle:	10°
Frequency:	L1, L2, L5
Sampling Rate:	1 sec
Satellite System:	GPS, GLONASS
Disabled Satellites:	
Solution Type:	Phase Fixed
Solution Optimization:	Iono minimized
Frequency to use in Iono Minimized:	L1, L2, L5
Tropospheric Model:	Computed
Ionospheric Model:	Computed
Ephemeris type	Broadcast
Allow Widelane Fix:	Yes
Min. Distance for Iono Minimized:	15 km

Possible Ambiguities Fix up to: 300 km  
Min. Duration for Float Solution (static): 5 min

Antennas and Receivers

Receiver Type / SN:	Reference - cskm LEICA GR50 / -	Rover - CREF0001 Trimble NetR9 / 5245K53278
Antenna Type / SN:	LEIAR20 LEIM / -	TRM57971.00 NONE / -

Coordinates

WGS84 Latitude:	Reference - cskm 2° 45' 43.0479" S	Rover - CREF0001 2° 29' 07.9296" S
WGS84 Longitude:	111° 10' 36.6338" E	110° 37' 37.9182" E
WGS84 Ellip.Height:	61.308 m	52.5022 m
WGS84 Cartesian X:	-2301450.934 m	-2244846.9195 m
WGS84 Cartesian Y:	5940615.123 m	5963720.7369 m
WGS84 Cartesian Z:	-305288.540 m	-274754.1568 m

Baseline Vector and Quality

ΔLatitude:	0° 16' 35.1183" N	SD ΔLatitude:	0.0001 m	M0: 0.45648307		
ΔLongitude:	0° 32' 58.7156" W	SD ΔLongitude:	0.0001 m	Q11: 0.00000004	Q12: -0.00000000	Q13: 0.00000000
ΔHeight:	-8.8056 m	SD ΔHeight:	0.0006 m	Q22: 0.00000006	Q23: -0.00000004	
				Q33: 0.00000187		
ΔX:	56604.0145 m	SD ΔX:	0.0002 m	M0: 0.45648307		
ΔY:	23105.6139 m	SD ΔY:	0.0006 m	Q11: 0.00000025	Q12: -0.00000057	Q13: 0.00000002
ΔZ:	30534.3832 m	SD ΔZ:	0.0001 m	Q22: 0.00000167	Q23: -0.00000007	
Baseline Length:	68339.0986 m	SD Baseline Length:	0.0006 m	Q33: 0.00000004		
		CQ 1D:	0.0001 m			
		CQ 2D:	0.0006 m			
		CQ 3D:	0.0006 m			
GDOP:	3.2 - 1.5					
PDOP:	2.3 - 1.2					
HDOP:	1.1 - 0.6					
VDOP:	2.0 - 1.0					

2.2. CREF0001 - 2025-03-01 11:59:42

Point Occupation Results

Marker Name:	CREF0001	Receiver Type / SN:	Trimble NetR9 / 5245K53278
Occupation Start:	2025-03-01 11:59:42	Antenna Type / SN:	TRM57971.00 NONE / -
		Occupation End:	2025-03-01 15:59:40

Averaged Point Summary: CREF0001

Weighted Average:	Yes		
WGS84 Latitude:	2° 29' 07.9096" S	SD Latitude:	0.0011 m
WGS84 Longitude:	110° 37' 37.9004" E	SD Longitude:	0.0013 m
WGS84 Ellip.Height:	53.4034 m	SD Height:	0.0033 m
WGS84 Cartesian X:	-2244846.7319 m	SD X:	0.0017 m
WGS84 Cartesian Y:	5963721.7981 m	SD Y:	0.0031 m

WGS84 Cartesian Z:	-274753.5810 m	SD Z:	0.0011 m
Easting:	-	SD Easting:	-
Northing:	-	SD Northing:	-
Ellip. Height:	-	SD Height:	-
Ortho. Height:	-		

Baseline Summary CREF0001

Point-ID	Reference	Baseline Length [m]	3D CQ [m]	ΔX	ΔY	ΔZ	X	Y	Z
CREF0001							-2244846.7319 m	5963721.7981 m	-274753.5810 m
	cskm	68339.8702 m	0.0037 m	0.0000 m	0.0000 m	0.0000 m	-2244846.7319 m	5963721.7981 m	-274753.5810 m

Baseline Results

2.2.1. Baseline: cskm - CREF0001

Used Processing Parameters

Cut-Off Angle:	10°
Frequency:	L1, L2, L5
Sampling Rate:	1 sec
Satellite System:	GPS, GLONASS
Disabled Satellites:	
Solution Type:	Code
Solution Optimization:	None
Frequency to use in Iono Minimized:	Automatic
Tropospheric Model:	Computed
Ionospheric Model:	Computed
Ephemeris type	Broadcast
Allow Widelane Fix:	Yes
Min. Distance for Iono Minimized:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	5 min

Antennas and Receivers

	Reference - cskm	Rover - CREF0001
Receiver Type / SN:	LEICA GR50 / -	Trimble NetR9 / 5245K53278
Antenna Type / SN:	LEIAR20 LEIM / -	TRM57971.00 NONE / -

Coordinates

	Reference - cskm	Rover - CREF0001
WGS84 Latitude:	2° 45' 43.0479" S	2° 29' 07.9096" S
WGS84 Longitude:	111° 10' 36.6338" E	110° 37' 37.9004" E
WGS84 Ellip.Height:	61.308 m	53.4034 m
WGS84 Cartesian X:	-2301450.934 m	-2244846.7319 m
WGS84 Cartesian Y:	5940615.123 m	5963721.7981 m
WGS84 Cartesian Z:	-305288.540 m	-274753.5810 m

Baseline Vector and Quality

ΔLatitude:	0° 16' 35.1383" N	SD ΔLatitude:	0.0011 m	M0: 0.72520423		
ΔLongitude:	0° 32' 58.7334" W	SD ΔLongitude:	0.0013 m	Q11: 0.00000236	Q12: -0.00000018	Q13: -0.00000071

ΔHeight:	-7.9043 m	SD ΔHeight:	0.0033 m	Q22: 0.00000330 Q33: 0.00002039	Q23: 0.00000036	
ΔX:	56604.2021 m	SD ΔX:	0.0017 m	M0: 0.72520423		
ΔY:	23106.6751 m	SD ΔY:	0.0031 m	Q11: 0.00000564	Q12: -0.00000587	Q13: 0.00000071
ΔZ:	30534.9590 m	SD ΔZ:	0.0011 m	Q22: 0.00001795	Q23: -0.00000133	
Baseline Length:	68339.8702 m	SD Baseline Length:	0.0037 m	Q33: 0.00000246		
		CQ 1D:	0.0011 m			
		CQ 2D:	0.0035 m			
		CQ 3D:	0.0037 m			
GDOP:		2.2 - 1.4				
PDOP:		1.7 - 1.1				
HDOP:		0.8 - 0.5				
VDOP:		1.6 - 0.9				

2.3. CREF0001 - 2025-03-02 03:59:42

Point Occupation Results

Marker Name:	CREF0001	Receiver Type / SN:	Trimble NetR9 / 5245K53278
		Antenna Type / SN:	TRM57971.00 NONE / -
Occupation Start:	2025-03-02 03:59:42	Occupation End:	2025-03-02 07:05:28

Averaged Point Summary: CREF0001

Weighted Average:	Yes		
WGS84 Latitude:	2° 29' 07.9298" S	SD Latitude:	0.0001 m
WGS84 Longitude:	110° 37' 37.9186" E	SD Longitude:	0.0001 m
WGS84 Ellip.Height:	52.5126 m	SD Height:	0.0006 m
WGS84 Cartesian X:	-2244846.9325 m	SD X:	0.0002 m
WGS84 Cartesian Y:	5963720.7429 m	SD Y:	0.0005 m
WGS84 Cartesian Z:	-274754.1614 m	SD Z:	0.0001 m
Easting:	-	SD Easting:	-
Northing:	-	SD Northing:	-
Ellip. Height:	-	SD Height:	-
Ortho. Height:	-		

Baseline Summary CREF0001

Point-ID	Reference	Baseline Length [m]	3D CQ [m]	ΔX	ΔY	ΔZ	X	Y	Z
CREF0001							-2244846.9325 m	5963720.7429 m	-274754.1614 m
	cskm	68339.0879 m	0.0006 m	0.0000 m	0.0000 m	0.0000 m	-2244846.9325 m	5963720.7429 m	-274754.1614 m

Baseline Results

2.3.1. Baseline: cskm - CREF0001

Used Processing Parameters



Cut-Off Angle: 10°  
Frequency: L1, L2, L5  
Sampling Rate: 1 sec  
Satellite System: GPS, GLONASS  
Disabled Satellites:  
Solution Type: Phase Fixed  
Solution Optimization: Iono minimized  
Frequency to use in Iono Minimized: L1, L2, L5  
Tropospheric Model: Computed  
Ionospheric Model: Computed  
Ephemeris type: Broadcast  
Allow Widelane Fix: Yes

Min. Distance for Iono Minimized: 15 km  
Possible Ambiguities Fix up to: 300 km  
Min. Duration for Float Solution (static): 5 min

Antennas and Receivers

	Reference - cskm	Rover - CREF0001
Receiver Type / SN:	LEICA GR50 / -	Trimble NetR9 / 5245K53278
Antenna Type / SN:	LEIAR20 LEIM / -	TRM57971.00 NONE / -

Coordinates

	Reference - cskm	Rover - CREF0001
WGS84 Latitude:	2° 45' 43.0479" S	2° 29' 07.9298" S
WGS84 Longitude:	111° 10' 36.6338" E	110° 37' 37.9186" E
WGS84 Ellip.Height:	61.308 m	52.5126 m
WGS84 Cartesian X:	-2301450.934 m	-2244846.9325 m
WGS84 Cartesian Y:	5940615.123 m	5963720.7429 m
WGS84 Cartesian Z:	-305288.540 m	-274754.1614 m

Baseline Vector and Quality

ΔLatitude:	0° 16' 35.1182" N	SD ΔLatitude:	0.0001 m	M0: 0.33685219		
ΔLongitude:	0° 32' 58.7153" W	SD ΔLongitude:	0.0001 m	Q11: 0.00000004	Q12: -0.00000000	Q13: -0.00000002
ΔHeight:	-8.7951 m	SD ΔHeight:	0.0006 m	Q22: 0.00000007	Q23: -0.00000002	
				Q33: 0.00000295		
ΔX:	56604.0015 m	SD ΔX:	0.0002 m	M0: 0.33685219		
ΔY:	23105.6199 m	SD ΔY:	0.0005 m	Q11: 0.00000042	Q12: -0.00000093	Q13: 0.00000005
ΔZ:	30534.3786 m	SD ΔZ:	0.0001 m	Q22: 0.00000260	Q23: -0.00000014	
Baseline Length:	68339.0879 m	SD Baseline Length:	0.0006 m	Q33: 0.00000005		
		CQ 1D:	0.0001 m			
		CQ 2D:	0.0006 m			
		CQ 3D:	0.0006 m			
GDOP:	2.8 - 1.5					
PDOP:	2.0 - 1.2					
HDOP:	1.2 - 0.6					
VDOP:	1.8 - 1.0					