

Survey Report

Job name	PN-04-09-2025
Creation date	4 Sep 2025
Version	Trimble Access 25.10
Distance Units	Meters
Angle units	Degrees
Pressure Units	mbar
Temperature Units	Celsius

Coordinate system (Job)

System	World wide/UTM
Zone	43 North
Datum	WGS 1984

Projection

Projection	Universal Transverse Mercator
Origin lat	0°00'00.00000"N
Origin long	75°00'00.00000"E
False northing	0.000
False easting	500000.000
Scale	0.99960000
South azimuth (grid)	No
Grid coords	Increase North-East
Ellipsoid	Semi-major axis: 6378137.000 Flattening: 298.25722356

Local site

Type	Grid
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Datum transformation

Type	Seven parameter
Semi-major axis	6378137.000
Flattening	298.257223
Rotation X	0°00'00.0000"
Rotation Y	0°00'00.0000"
Rotation Z	0°00'00.0000"
Translation X	0.000
Translation Y	0.000
Translation Z	0.000
Scale	0.00000ppm

Vertical adjustment

Geoid file	EGM96 (Global)
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Collected Field Data (ECEF deltas: APC to APC)

Corrections

South azimuth (grid)	No
Grid coords	Increase North-East
Magnetic declination	0°00'00"
Distances	Ground
Neighborhood adjustment	Off

Datum transformation

Type	Seven parameter
Semi-major axis	6378137.000
Flattening	298.257223
Rotation X	0°00'00.0000"
Rotation Y	0°00'00.0000"
Rotation Z	0°00'00.0000"
Translation X	0.000
Translation Y	0.000
Translation Z	0.000
Scale	0.00000ppm

Projection

Projection	Universal Transverse Mercator
Origin lat	0°00'00.00000"N
Origin long	75°00'00.00000"E
False northing	0.000
False easting	500000.000
Scale	0.99960000
Ellipsoid	Semi-major axis: 6378137.000 Flattening: 298.25722356

Local site

Type	Grid
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Vertical adjustment

Geoid file	EGM96 (Global)
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Coordinate system

System	World wide/UTM
Zone	43 North
Datum	WGS 1984

Rover options

Elevation mask	10	PDOP mask	6						
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Base options

Elevation mask	10	PDOP mask	6						
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Rover options

Elevation mask	10	PDOP mask	6						
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Survey event

Survey event	Rover started
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Point (Global)	RS_WARD	Latitude	19°12'13.83947" N	Longitude	72°50'43.41498" E	Height	-42.722	Code	BS
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GNSS receiver

Receiver type	Unknown
Serial number	

Firmware version	0
Antenna type	R12 Internal
Measurement method	Antenna Phase Center
Tape adjustment	0.000
Horizontal offset	0.000
Vertical offset	0.000

Base point

Point	RS_WARD	Antenna height	1.720	Type	Corrected				
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Initialization event: RTK initialized

GPS week	2382	Seconds	380201	Initialization type	On the fly	Survey type	Real-time		
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GNSS receiver

Receiver type	R12i
Serial number	6405710282
Firmware version	6.25
Antenna type	R12i Internal
Measurement method	Bottom of quick release
Tape adjustment	0.000
Horizontal offset	0.000
Vertical offset	0.179

Point	1	ΔX	468.175	ΔY	264.204	ΔZ	-1168.238	Code	PN
		Method	RTK	Type	Topo point	Search class	Normal		
Antenna height	2.000	Type	Uncorrected	Hz Prec (DRMS)	0.010	Vt Prec (1 sigma)	0.020		
QC 1		PDOP	2.4	GDOP	4.2	HDOP	1.1	VDOP	2.2
		Base data age	2	Satellites	17	Positions used	4		
QC 2		VCV xx (m ²)	0.000056	VCV xy (m ²)	0.000054	VCV xz (m ²)	0.000002		
				VCV yy (m ²)	0.000365	VCV yz (m ²)	0.000106		
						VCV zz (m ²)	0.000076		

Point	2	ΔX	471.740	ΔY	262.764	ΔZ	-1167.168	Code	PN
		Method	RTK	Type	Topo point	Search class	Normal		
Antenna height	2.000	Type	Uncorrected	Hz Prec (DRMS)	0.016	Vt Prec (1 sigma)	0.032		
QC 1		PDOP	1.6	GDOP	3.1	HDOP	0.8	VDOP	1.4
		Base data age	2	Satellites	26	Positions used	3		
QC 2		VCV xx (m ²)	0.000132	VCV xy (m ²)	0.000115	VCV xz (m ²)	0.000014		
				VCV yy (m ²)	0.000909	VCV yz (m ²)	0.000315		
						VCV zz (m ²)	0.000235		

Warnings (2)	Excess movement	Poor precision
Conditions at storage (2)	Excess movement	

Initialization event: RTK not initialized

GPS week	2382	Seconds	380453	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	380466	Initializati on type	On the fly	Survey type	Real-time		
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Point	3	ΔX	450.077	ΔY	258.733	ΔZ	-1137.266	Code	PN
		Method	RTK	Type	Topo point	Search class	Normal		
Antenna height	2.000	Type	Uncorrected	Hz Prec (DRMS)	0.033	Vt Prec (1 sigma)	0.064		
QC 1		PDOP	1.9	GDOP	3.9	HDOP	0.7	VDOP	1.8
		Base data age	2	Satellites	25	Positions used	0		
QC 2		VCV xx (m ²)	0.000750	VCV xy (m ²)	0.000525	VCV xz (m ²)	0.000561		
				VCV yy (m ²)	0.003395	VCV yz (m ²)	0.001394		
						VCV zz (m ²)	0.001045		
Warnings (3)		Poor precision							
Conditions at storage (3)		Poor precision							

Initialization event: RTK not initialized

GPS week	2382	Seconds	380695	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	380696	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2382	Seconds	380723	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	380741	Initializati on type	On the fly	Survey type	Real-time		
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Point	4	ΔX	430.225	ΔY	257.246	ΔZ	-1116.318	Code	PN
		Method	RTK	Type	Topo point	Search class	Normal		
Antenna height	2.000	Type	Uncorrected	Hz Prec (DRMS)	0.052	Vt Prec (1 sigma)	0.074		
QC 1		PDOP	1.7	GDOP	3.1	HDOP	0.7	VDOP	1.6
		Base data age	3	Satellites	25	Positions used	0		
QC 2		VCV xx (m ²)	0.002074	VCV xy (m ²)	0.000853	VCV xz (m ²)	0.001613		
				VCV yy (m ²)	0.004128	VCV yz (m ²)	0.001763		
						VCV zz (m ²)	0.001993		
Warnings (4)		Excess movement				Poor precision			

Conditions at storage (4)	Excess movement	Poor precision
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Initialization event: RTK not initialized

GPS week	2382	Seconds	380937	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	380941	Initializati on type	On the fly	Survey type	Real-time		
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Point	5	ΔX	415.138	ΔY	258.051	ΔZ	-1105.368	Code	PN
		Method	RTK	Type	Topo point	Search class	Normal		
Antenna height	2.000	Type	Uncorrected	Hz Prec (DRMS)	0.024	Vt Prec (1 sigma)	0.044		
QC 1		PDOP	1.8	GDOP	3.6	HDOP	0.7	VDOP	1.6
		Base data age	3	Satellites	26	Positions used	0		
QC 2		VCV xx (m ²)	0.000596	VCV xy (m ²)	0.000560	VCV xz (m ²)	0.000374		
				VCV yy (m ²)	0.001402	VCV yz (m ²)	0.000525		
						VCV zz (m ²)	0.000485		

Warnings (5)	Poor precision
Conditions at storage (5)	Poor precision

Initialization event: RTK not initialized

GPS week	2382	Seconds	381137	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	381164	Initializati on type	On the fly	Survey type	Real-time		
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Point	6	ΔX	370.721	ΔY	261.656	ΔZ	-1077.626	Code	PN-Damage
		Method	RTK	Type	Topo point	Search class	Normal		
Antenna height	2.000	Type	Uncorrected	Hz Prec (DRMS)	0.017	Vt Prec (1 sigma)	0.045		
QC 1		PDOP	1.5	GDOP	2.5	HDOP	0.6	VDOP	1.3
		Base data age	2	Satellites	26	Positions used	0		
QC 2		VCV xx (m ²)	0.000310	VCV xy (m ²)	0.000459	VCV xz (m ²)	0.000270		
				VCV yy (m ²)	0.001507	VCV yz (m ²)	0.000692		
						VCV zz (m ²)	0.000478		

Warnings (6)	Poor precision
Conditions at storage (6)	Poor precision

Initialization event: RTK not initialized

GPS week	2382	Seconds	381240	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	381247	Initializati on type	On the fly	Survey type	Real-time		
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Point	7	ΔX	342.364	ΔY	268.048	ΔZ	-1071.300	Code	PN
		Method	RTK	Type	Topo point	Search class	Normal		
Antenna height	2.000	Type	Uncorrected	Hz Prec (DRMS)	0.027	Vt Prec (1 sigma)	0.058		
QC 1		PDOP	1.6	GDOP	2.7	HDOP	0.6	VDOP	1.4
		Base data age	2	Satellites	26	Positions used	0		
QC 2		VCV xx (m ²)	0.000588	VCV xy (m ²)	0.000660	VCV xz (m ²)	0.000382		
				VCV yy (m ²)	0.002714	VCV yz (m ²)	0.001087		
						VCV zz (m ²)	0.000825		

Warnings (7)	Poor precision
Conditions at storage (7)	Poor precision

Point	8	ΔX	328.381	ΔY	270.985	ΔZ	-1068.433	Code	PN flot
		Method	RTK	Type	Topo point	Search class	Normal		
Antenna height	2.000	Type	Uncorrected	Hz Prec (DRMS)	0.152	Vt Prec (1 sigma)	0.658		
QC 1		PDOP	1.7	GDOP	3.5	HDOP	0.7	VDOP	1.6
		Base data age	3	Satellites	26	Positions used	0		
QC 2		VCV xx (m ²)	0.049994	VCV xy (m ²)	0.135691	VCV xz (m ²)	0.020205		
				VCV yy (m ²)	0.387479	VCV yz (m ²)	0.066614		
						VCV zz (m ²)	0.018512		

Warnings (8)	Poor precision
Conditions at storage (8)	Poor precision

Initialization event: RTK not initialized

GPS week	2382	Seconds	381702	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	381707	Initializati on type	On the fly	Survey type	Real-time		
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Point	9	ΔX	326.396	ΔY	275.937	ΔZ	-1080.372	Code	PN
		Method	RTK	Type	Topo point	Search class	Normal		
Antenna height	2.000	Type	Uncorrected	Hz Prec (DRMS)	0.033	Vt Prec (1 sigma)	0.059		
QC 1		PDOP	1.6	GDOP	3.2	HDOP	0.7	VDOP	1.4
		Base data age	3	Satellites	26	Positions used	0		
QC 2		VCV xx (m ²)	0.000760	VCV xy (m ²)	0.000348	VCV xz (m ²)	0.000242		
				VCV yy (m ²)	0.002831	VCV yz (m ²)	0.001359		
						VCV zz (m ²)	0.000974		

Warnings (9)	Poor precision
Conditions at storage (9)	Poor precision

Initialization event: RTK not initialized

GPS week	2382	Seconds	381895	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	381899	Initializati on type	On the fly	Survey type	Real-time		
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Point	10	ΔX	326.392	ΔY	284.295	ΔZ	-1102.994	Code	PN
		Method	RTK	Type	Topo point	Search class	Normal		
Antenna height	2.000	Type	Uncorrected	Hz Prec (DRMS)	0.030	Vt Prec (1 sigma)	0.056		
QC 1		PDOP	1.5	GDOP	2.6	HDOP	0.6	VDOP	1.4
		Base data age	3	Satellites	26	Positions used	0		
QC 2		VCV xx (m ²)	0.000788	VCV xy (m ²)	0.000630	VCV xz (m ²)	0.000089		
				VCV yy (m ²)	0.002780	VCV yz (m ²)	0.000784		
						VCV zz (m ²)	0.000480		

Warnings (10)	Poor precision
Conditions at storage (10)	Poor precision

Initialization event: RTK not initialized

GPS week	2382	Seconds	382094	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	382131	Initializati on type	On the fly	Survey type	Real-time		
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Point	11	ΔX	306.525	ΔY	276.659	ΔZ	-1064.815	Code	PN
		Method	RTK	Type	Topo point	Search class	Normal		
Antenna height	2.000	Type	Uncorrected	Hz Prec (DRMS)	0.041	Vt Prec (1 sigma)	0.071		
QC 1		PDOP	1.1	GDOP	2.1	HDOP	0.5	VDOP	1.0
		Base data age	2	Satellites	36	Positions used	0		
QC 2		VCV xx (m ²)	0.001207	VCV xy (m ²)	0.000956	VCV xz (m ²)	0.000737		
				VCV yy (m ²)	0.004076	VCV yz (m ²)	0.001520		
						VCV zz (m ²)	0.001457		

Warnings (11)	Poor precision
Conditions at storage (11)	Poor precision

Initialization event: RTK not initialized

GPS week	2382	Seconds	382261	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	382271	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2382	Seconds	382273	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	382287	Initializati on type	On the fly	Survey type	Real-time		
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Point	12	ΔX	305.402	ΔY	277.026	ΔZ	-1064.548	Code	PN-VS-FLOT
		Method	RTK	Type	Topo point	Search class	Normal		
Antenna height	2.000	Type	Uncorrected	Hz Prec (DRMS)	0.076	Vt Prec (1 sigma)	0.108		
QC 1		PDOP	1.7	GDOP	2.2	HDOP	1.2	VDOP	1.2
		Base data age	3	Satellites	25	Positions used	0		
QC 2		VCV xx (m ²)	0.002930	VCV xy (m ²)	-0.001818	VCV xz (m ²)	-0.000279		
				VCV yy (m ²)	0.011591	VCV yz (m ²)	0.004359		
						VCV zz (m ²)	0.002796		
Warnings (12)		Poor precision							
Conditions at storage (12)		Poor precision							

Initialization event: RTK not initialized

GPS week	2382	Seconds	382332	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	382381	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2382	Seconds	382536	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	382549	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2382	Seconds	382765	Initializati on type	On the fly	Survey type	Real-time		
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Point	13	X	1777486.537	Y	5757584.550	Z	2083618.231	Code	PN-FLOT
		Method	Code	Type	Topo point	Search class	Normal		
Antenna height	2.000	Type	Uncorrected	Hz Prec (DRMS)	3.884	Vt Prec (1 sigma)	4.392		

QC 1		PDOP	4.3	GDOP	5.4	HDOP	2.3	VDOP	3.7
		Base data age	1	Satellites	15	Positions used	0		
QC 2		VCV xx (m²)	10.207258	VCV xy (m²)	-1.949756	VCV xz (m²)	3.664568		
				VCV yy (m²)	18.805695	VCV yz (m²)	4.913188		
						VCV zz (m²)	5.365382		
Warnings (13)		Excess movement				Poor precision			
Conditions at storage (13)		Excess movement				Poor precision			

Initialization event: RTK initialized

GPS week	2382	Seconds	382816	Initialization type	On the fly	Survey type	Real-time		
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Point	14	ΔX	269.495	ΔY	278.158	ΔZ	-1036.529	Code	PN
		Method	RTK	Type	Topo point	Search class	Normal		
Antenna height	2.000	Type	Uncorrected	Hz Prec (DRMS)	0.028	Vt Prec (1 sigma)	0.049		
QC 1		PDOP	1.4	GDOP	2.3	HDOP	0.6	VDOP	1.2
		Base data age	2	Satellites	26	Positions used	0		
QC 2		VCV xx (m²)	0.000760	VCV xy (m²)	0.000734	VCV xz (m²)	0.000142		
				VCV yy (m²)	0.001989	VCV yz (m²)	0.000507		
						VCV zz (m²)	0.000449		
Warnings (14)		Excess movement				Poor precision			
Conditions at storage (14)		Excess movement				Poor precision			

Initialization event: RTK not initialized

GPS week	2382	Seconds	382998	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	383181	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2382	Seconds	383352	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	383372	Initialization type	On the fly	Survey type	Real-time		
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Point	15	ΔX	326.318	ΔY	241.130	ΔZ	-984.023	Code	PN
		Method	RTK	Type	Topo point	Search class	Normal		
Antenna height	2.000	Type	Uncorrected	Hz Prec (DRMS)	0.031	Vt Prec (1 sigma)	0.045		
QC 1		PDOP	1.3	GDOP	2.6	HDOP	0.7	VDOP	1.1
		Base data age	2	Satellites	25	Positions used	0		

QC 2		VCV xx (m²)	0.000605	VCV xy (m²)	0.000032	VCV xz (m²)	0.000037		
				VCV yy (m²)	0.002033	VCV yz (m²)	0.000415		
						VCV zz (m²)	0.000320		

Warnings (15)		Poor precision							
Conditions at storage (15)		Poor precision							

Initialization event: RTK not initialized

GPS week	2382	Seconds	383774	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	383788	Initializati on type	On the fly	Survey type	Real-time		
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Point	16	ΔX	326.768	ΔY	230.389	ΔZ	-956.146	Code	PN
		Method	RTK	Type	Topo point	Search class	Normal		
Antenna height	2.000	Type	Uncorrected	Hz Prec (DRMS)	0.019	Vt Prec (1 sigma)	0.032		
QC 1		PDOP	1.3	GDOP	2.1	HDOP	0.7	VDOP	1.1
		Base data age	3	Satellites	25	Positions used	0		
QC 2		VCV xx (m²)	0.000260	VCV xy (m²)	0.000215	VCV xz (m²)	0.000184		
				VCV yy (m²)	0.000821	VCV yz (m²)	0.000253		
						VCV zz (m²)	0.000286		

Warnings (16)		Poor precision							
Conditions at storage (16)		Poor precision							

Point	17	ΔX	327.415	ΔY	219.477	ΔZ	-927.377	Code	PN
		Method	RTK	Type	Topo point	Search class	Normal		
Antenna height	2.000	Type	Uncorrected	Hz Prec (DRMS)	0.020	Vt Prec (1 sigma)	0.038		
QC 1		PDOP	1.0	GDOP	1.8	HDOP	0.5	VDOP	0.8
		Base data age	3	Satellites	38	Positions used	4		
QC 2		VCV xx (m²)	0.000391	VCV xy (m²)	0.000400	VCV xz (m²)	0.000196		
				VCV yy (m²)	0.001180	VCV yz (m²)	0.000323		
						VCV zz (m²)	0.000270		

Initialization event: RTK not initialized

GPS week	2382	Seconds	384284	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	384300	Initializati on type	On the fly	Survey type	Real-time		
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Point	18	ΔX	328.402	ΔY	208.410	ΔZ	-898.798	Code	PN
		Method	RTK	Type	Topo point	Search	Normal		

						class			
Antenna height	2.000	Type	Uncorrected	Hz Prec (DRMS)	0.031	Vt Prec (1 sigma)	0.042		
QC 1		PDOP	1.2	GDOP	2.1	HDOP	0.7	VDOP	1.1
		Base data age	2	Satellites	26	Positions used	6		
QC 2		VCV xx (m²)	0.000393	VCV xy (m²)	-0.000169	VCV xz (m²)	-0.000132		
				VCV yy (m²)	0.001693	VCV yz (m²)	0.000616		
						VCV zz (m²)	0.000615		

Initialization event: RTK not initialized

GPS week	2382	Seconds	384522	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	384547	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2382	Seconds	384616	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	384617	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2382	Seconds	384666	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	384672	Initialization type	On the fly	Survey type	Real-time		
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Point	19	ΔX	205.909	ΔY	253.939	ΔZ	-916.152	Code	PN
		Method	RTK	Type	Topo point	Search class	Normal		
Antenna height	2.000	Type	Uncorrected	Hz Prec (DRMS)	0.032	Vt Prec (1 sigma)	0.070		
QC 1		PDOP	2.2	GDOP	4.4	HDOP	1.0	VDOP	2.0
		Base data age	3	Satellites	21	Positions used	2		
QC 2		VCV xx (m²)	0.001648	VCV xy (m²)	0.001820	VCV xz (m²)	0.000732		
				VCV yy (m²)	0.003666	VCV yz (m²)	0.001203		
						VCV zz (m²)	0.000661		

Warnings (19)	Poor precision
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Initialization event: RTK not initialized

GPS week	2382	Seconds	384850	Initialization type	On the fly	Survey type	Real-time		
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Point	20	X	1777412.340	Y	5757579.033	Z	2083723.516	Code	PN-FLOT
		Method	Code	Type	Topo point	Search class	Normal		
Antenna height	2.000	Type	Uncorrected	Hz Prec (DRMS)	1.681	Vt Prec (1 sigma)	2.083		
QC 1		PDOP	2.3	GDOP	2.7	HDOP	1.5	VDOP	1.8
		Base data age	2	Satellites	13	Positions used	0		
QC 2		VCV xx (m²)	2.281389	VCV xy (m²)	0.351766	VCV xz (m²)	1.030229		
				VCV yy (m²)	3.413155	VCV yz (m²)	1.444007		
						VCV zz (m²)	1.469165		

Warnings (20)	Poor precision
Conditions at storage (20)	Poor precision

Initialization event: RTK initialized

GPS week	2382	Seconds	384947	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2382	Seconds	384972	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	384985	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2382	Seconds	384986	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	385011	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2382	Seconds	385030	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	385040	Initialization type	On the fly	Survey type	Real-time		
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Point	21	Δ X	217.188	Δ Y	271.093	Δ Z	-973.718	Code	PN-NOT-OPEN-FLOT
		Method	RTK	Type	Topo point	Search class	Normal		
Antenna height	2.000	Type	Uncorrected	Hz Prec (DRMS)	0.526	Vt Prec (1 sigma)	0.322		
QC 1		PDOP	2.0	GDOP	3.9	HDOP	1.1	VDOP	1.7
		Base data	3	Satellites	19	Positions	0		

		age				used			
QC 2		VCV xx (m²)	0.260722	VCV xy (m²)	0.023378	VCV xz (m²)	0.152957		
				VCV yy (m²)	0.027880	VCV yz (m²)	0.018823		
						VCV zz (m²)	0.091748		
Warnings (21)		Poor precision							
Conditions at storage (21)		Poor precision							

Initialization event: RTK not initialized

GPS week	2382	Seconds	385151	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	385197	Initializati on type	On the fly	Survey type	Real-time		
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Point	22	ΔX	237.056	ΔY	269.202	ΔZ	-984.542	Code	PN
		Method	RTK	Type	Topo point	Search class	Normal		
Antenna height	2.000	Type	Uncorrected	Hz Prec (DRMS)	0.038	Vt Prec (1 sigma)	0.096		
QC 1		PDOP	1.7	GDOP	3.3	HDOP	0.8	VDOP	1.5
		Base data age	2	Satellites	22	Positions used	0		
QC 2		VCV xx (m²)	0.001781	VCV xy (m²)	0.002390	VCV xz (m²)	0.001470		
				VCV yy (m²)	0.007088	VCV yz (m²)	0.002743		
						VCV zz (m²)	0.001753		
Warnings (22)		Poor precision							
Conditions at storage (22)		Poor precision							

Initialization event: RTK not initialized

GPS week	2382	Seconds	385304	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	385313	Initializati on type	On the fly	Survey type	Real-time		
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Point	23	ΔX	266.007	ΔY	263.202	ΔZ	-992.352	Code	PN
		Method	RTK	Type	Topo point	Search class	Normal		
Antenna height	2.000	Type	Uncorrected	Hz Prec (DRMS)	0.023	Vt Prec (1 sigma)	0.045		
QC 1		PDOP	1.5	GDOP	3.1	HDOP	0.7	VDOP	1.4
		Base data age	3	Satellites	24	Positions used	6		
QC 2		VCV xx (m²)	0.000716	VCV xy (m²)	0.000737	VCV xz (m²)	0.000247		
				VCV yy (m²)	0.001442	VCV yz (m²)	0.000561		
						VCV zz (m²)	0.000379		
Point	24	ΔX	296.588	ΔY	256.856	ΔZ	-1000.783	Code	PN

		Method	RTK	Type	Topo point	Search class	Normal		
Antenna height	2.000	Type	Uncorrected	Hz Prec (DRMS)	0.022	Vt Prec (1 sigma)	0.063		
QC 1		PDOP	1.6	GDOP	3.1	HDOP	0.8	VDOP	1.4
		Base data age	2	Satellites	25	Positions used	5		
QC 2		VCV xx (m²)	0.000366	VCV xy (m²)	0.000670	VCV xz (m²)	0.000314		
				VCV yy (m²)	0.003314	VCV yz (m²)	0.001310		
						VCV zz (m²)	0.000812		

Warnings (24)	Poor precision
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Initialization event: RTK not initialized

GPS week	2382	Seconds	385496	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	385633	Initializati on type	On the fly	Survey type	Real-time		
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Point	25	ΔX	177.707	ΔY	248.485	ΔZ	-878.760	Code	PN
		Method	RTK	Type	Topo point	Search class	Normal		
Antenna height	2.000	Type	Uncorrected	Hz Prec (DRMS)	0.018	Vt Prec (1 sigma)	0.029		
QC 1		PDOP	1.4	GDOP	2.8	HDOP	0.7	VDOP	1.2
		Base data age	3	Satellites	26	Positions used	6		
QC 2		VCV xx (m²)	0.000244	VCV xy (m²)	0.000180	VCV xz (m²)	0.000172		
				VCV yy (m²)	0.000641	VCV yz (m²)	0.000240		
						VCV zz (m²)	0.000265		

Initialization event: RTK not initialized

GPS week	2382	Seconds	385970	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	385981	Initializati on type	On the fly	Survey type	Real-time		
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Point	26	ΔX	187.495	ΔY	242.460	ΔZ	-871.344	Code	PN
		Method	RTK	Type	Topo point	Search class	Normal		
Antenna height	2.000	Type	Uncorrected	Hz Prec (DRMS)	0.026	Vt Prec (1 sigma)	0.056		
QC 1		PDOP	1.4	GDOP	2.7	HDOP	0.7	VDOP	1.2
		Base data age	3	Satellites	26	Positions used	6		
QC 2		VCV xx (m²)	0.000367	VCV xy (m²)	0.000352	VCV xz (m²)	0.000252		
				VCV yy (m²)	0.002572	VCV yz (m²)	0.001106		
						VCV zz	0.000841		

						(m ²)			
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Initialization event: RTK not initialized

GPS week	2382	Seconds	386244	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	386296	Initializati on type	On the fly	Survey type	Real-time		
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Point	27	ΔX	182.973	ΔY	223.091	ΔZ	-815.408	Code	PN
		Method	RTK	Type	Topo point	Search class	Normal		
Antenna height	2.000	Type	Uncorrected	Hz Prec (DRMS)	0.018	Vt Prec (1 sigma)	0.028		
QC 1		PDOP	1.3	GDOP	2.7	HDOP	0.7	VDOP	1.1
		Base data age	3	Satellites	25	Positions used	5		
QC 2		VCV xx (m ²)	0.000207	VCV xy (m ²)	0.000142	VCV xz (m ²)	0.000034		
				VCV yy (m ²)	0.000797	VCV yz (m ²)	0.000084		
						VCV zz (m ²)	0.000138		

Initialization event: RTK not initialized

GPS week	2382	Seconds	386549	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	386562	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2382	Seconds	386603	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	386609	Initializati on type	On the fly	Survey type	Real-time		
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Point	28	ΔX	184.973	ΔY	233.189	ΔZ	-843.273	Code	PN
		Method	RTK	Type	Topo point	Search class	Normal		
Antenna height	2.000	Type	Uncorrected	Hz Prec (DRMS)	0.021	Vt Prec (1 sigma)	0.042		
QC 1		PDOP	1.2	GDOP	2.1	HDOP	0.6	VDOP	1.1
		Base data age	2	Satellites	26	Positions used	6		
QC 2		VCV xx (m ²)	0.000388	VCV xy (m ²)	0.000360	VCV xz (m ²)	0.000144		
				VCV yy (m ²)	0.001485	VCV yz (m ²)	0.000475		
						VCV zz (m ²)	0.000337		

Initialization event: RTK not initialized

GPS week	2382	Seconds	386795	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	386796	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2382	Seconds	386842	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	386846	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2382	Seconds	387028	Initializati on type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2382	Seconds	387032	Initializati on type	On the fly	Survey type	Real-time		
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Survey event

Survey event	End survey								
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Reduced points

Point	RS_WARD	North	2124784.151	East	273463.294	Elevation	25.005	Code	BS
Point	1	North	2123556.825	East	273078.571	Elevation	9.240	Code	PN
Point	2	North	2123557.989	East	273074.753	Elevation	9.285	Code	PN
Point	3	North	2123589.360	East	273094.658	Elevation	9.442	Code	PN
Point	4	North	2123611.311	East	273113.466	Elevation	9.456	Code	PN
Point	5	North	2123622.683	East	273128.265	Elevation	9.579	Code	PN
Point	6	North	2123651.525	East	273172.140	Elevation	9.578	Code	PN-Damage
Point	7	North	2123657.883	East	273201.209	Elevation	9.527	Code	PN
Point	8	North	2123660.848	East	273215.477	Elevation	9.225	Code	PN flot
Point	9	North	2123648.166	East	273218.678	Elevation	9.216	Code	PN
Point	10	North	2123624.142	East	273220.851	Elevation	9.320	Code	PN
Point	11	North	2123664.324	East	273238.084	Elevation	9.446	Code	PN
Point	12	North	2123664.554	East	273239.268	Elevation	9.552	Code	PN-VS-FLOT
Point	13	North	2123689.762	East	273245.439	Elevation	13.138	Code	PN-FLOT
Point	14	North	2123693.719	East	273274.284	Elevation	9.783	Code	PN
Point	15	North	2123750.244	East	273209.745	Elevation	9.458	Code	PN
Point	16	North	2123779.952	East	273206.514	Elevation	9.055	Code	PN
Point	17	North	2123810.539	East	273203.054	Elevation	8.845	Code	PN

Point	18	North	2123840.967	East	273199.222	Elevation	8.530	Code	PN
Point	19	North	2123820.537	East	273329.484	Elevation	9.790	Code	PN
Point	20	North	2123797.282	East	273316.061	Elevation	22.104	Code	PN-FLOT
Point	21	North	2123759.749	East	273323.012	Elevation	9.486	Code	PN-NOT- OPEN-FLOT
Point	22	North	2123748.434	East	273303.324	Elevation	9.756	Code	PN
Point	23	North	2123740.497	East	273273.783	Elevation	9.838	Code	PN
Point	24	North	2123731.946	East	273242.576	Elevation	9.857	Code	PN
Point	25	North	2123859.991	East	273355.319	Elevation	9.306	Code	PN
Point	26	North	2123868.078	East	273344.285	Elevation	9.033	Code	PN
Point	27	North	2123927.455	East	273343.627	Elevation	8.685	Code	PN
Point	28	North	2123897.754	East	273344.328	Elevation	9.194	Code	PN