



Real Distance <realdistanceltd@gmail.com>

# OPUS solution : RanR22IRQ\_R\_20222010000\_01D\_01S.22O OP1659270884208

1 message

opus <opus@ngs.noaa.gov>  
Reply-To: ngs.opus@noaa.gov  
To: realdistanceltd@gmail.com

Sun, Jul 31, 2022 at 3:36 PM

FILE: RanR22IRQ\_R\_20222010000\_01D\_01S.22O OP1659270884208

1008 NOTE: You provided a zero or negative antenna height.  
1008 If ARP HGT = 0.0, OPUS solves for the position of your selected antenna's reference point (ARP).  
1008 If ARP HGT < 0.0, OPUS solves for a location inside or above the antenna  
1008

### NGS OPUS SOLUTION REPORT =====

All computed coordinate accuracies are listed as peak-to-peak values.  
For additional information: <https://www.ngs.noaa.gov/OPUS/about.jsp#accuracy>

USER: [realdistanceltd@gmail.com](mailto:realdistanceltd@gmail.com)      DATE: July 31, 2022  
RINEX FILE: ranr2010.22o      TIME: 12:36:08 UTC

SOFTWARE: page5 2008.25 [master278.pl](#) 160321      START: 2022/07/20 00:00:00  
EPHEMERIS: igr22193.eph [rapid]      STOP: 2022/07/20 23:59:00  
NAV FILE: brdc2010.22n      OBS USED: 56401 / 57257 : 99%  
ANT NAME: UNIUA35      NONE      # FIXED AMB: 187 / 233 : 80%  
ARP HEIGHT: 0.000      OVERALL RMS: 0.013(m)

REF FRAME: NAD\_83(2011)(EPOCH:2010.0000)      ITRF2014 (EPOCH:2022.5493)

X: 3653574.728(m) 0.009(m)      3653573.230(m) 0.009(m)  
Y: 3632805.336(m) 0.014(m)      3632807.141(m) 0.014(m)  
Z: 3747979.629(m) 0.013(m)      3747980.748(m) 0.013(m)

LAT: 36 13 1.13218 0.004(m)      36 13 1.15741 0.004(m)  
E LON: 44 50 12.05606 0.003(m)      44 50 12.14959 0.003(m)  
W LON: 315 9 47.94394 0.003(m)      315 9 47.85041 0.003(m)  
EL HGT: 569.591(m) 0.020(m)      570.422(m) 0.020(m)  
ORTHO HGT: [No NGS Geoid Model Available.]

### UTM COORDINATES      STATE PLANE COORDINATES UTM (Zone 38)      \*\*\* NOTE \*\*\*

Northing (Y) [meters] 4008027.633      Please manually select  
Easting (X) [meters] 485320.980      SPC zone.  
Convergence [degrees] -0.09649444  
Point Scale 0.99960265  
Combined Factor 0.99951330

US NATIONAL GRID DESIGNATOR: 38SMF8532108028(NAD 83)

### BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
	BSHM		977158.3	
	DRAG		1011183.4	
	ZECK		885094.8	

NEAREST NGS PUBLISHED CONTROL POINT

DK4115 IQALUIT WAAS CORS ARP N634353.319 W0683235.430 7486745.3

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.