



Real Distance <realdistanceltd@gmail.com>

**OPUS solution : BasR99IRQ\_R\_20222010000\_01D\_01S.22O OP1659270544359**

1 message

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

Sun, Jul 31, 2022 at 3:30 PM

FILE: BasR99IRQ\_R\_20222010000\_01D\_01S.22O OP1659270544359

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  
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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: basr2010.22o TIME: 12:30:34 UTC

SOFTWARE: page5 2008.25 [master296.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: 57429 / 58709 : 98%  
ANT NAME: UNIUA35 NONE # FIXED AMB: 166 / 198 : 84%  
ARP HEIGHT: 0.000 OVERALL RMS: 0.015(m)

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

X: 3695209.389(m) 0.010(m) 3695207.775(m) 0.010(m)  
Y: 4073759.754(m) 0.014(m) 4073761.538(m) 0.014(m)  
Z: 3218799.645(m) 0.015(m) 3218801.038(m) 0.015(m)

LAT: 30 30 20.60993 0.007(m) 30 30 20.64499 0.007(m)  
E LON: 47 47 22.50499 0.004(m) 47 47 22.59478 0.004(m)  
W LON: 312 12 37.49501 0.004(m) 312 12 37.40522 0.004(m)  
EL HGT: -3.428(m) 0.023(m) -2.517(m) 0.023(m)  
ORTHO HGT: [No NGS Geoid Model Available.]

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

Northing (Y) [meters] 3378135.996 Please manually select  
Easting (X) [meters] 767725.979 SPC zone.  
Convergence [degrees] 1.41690556  
Point Scale 1.00048434  
Combined Factor 1.00048488

US NATIONAL GRID DESIGNATOR: 38RQU6772678136(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
	BSHM		1234217.5	
	DRAG		1187167.1	
DK7831	ISNA IRAQ SURVEY NAJAF CORS ARP			367387.9

NEAREST NGS PUBLISHED CONTROL POINT

DK4115 IQALUIT WAAS CORS ARP N634353.319 W0683235.430 8176765.2

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.