



Real Distance <realdistanceltd@gmail.com>

**OPUS solution : AkrR99IRQ\_R\_20222010000\_01D\_01S.22O OP1659270484925**

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: AkrR99IRQ\_R\_20222010000\_01D\_01S.22O OP1659270484925

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: akrr2010.22o TIME: 12:29:38 UTC

SOFTWARE: page5 2008.25 [master275.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: 53153 / 57679 : 92%  
ANT NAME: UNIU35 NONE # FIXED AMB: 340 / 537 : 63%  
ARP HEIGHT: 0.000 OVERALL RMS: 0.013(m)

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

X: 3689773.674(m) 0.008(m) 3689772.128(m) 0.008(m)  
Y: 3548288.605(m) 0.023(m) 3548290.274(m) 0.023(m)  
Z: 3793058.696(m) 0.011(m) 3793059.984(m) 0.011(m)

LAT: 36 43 17.40450 0.006(m) 36 43 17.43719 0.006(m)  
E LON: 43 52 48.57928 0.011(m) 43 52 48.67093 0.011(m)  
W LON: 316 7 11.42072 0.011(m) 316 7 11.32907 0.011(m)  
EL HGT: 658.272(m) 0.023(m) 659.076(m) 0.023(m)  
ORTHO HGT: [No NGS Geoid Model Available.]

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

Northing (Y) [meters] 4064562.704 Please manually select  
Easting (X) [meters] 399997.075 SPC zone.  
Convergence [degrees] -0.66963611  
Point Scale 0.99972320  
Combined Factor 0.99961993

US NATIONAL GRID DESIGNATOR: 38SLF9999764563(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
	BSHM	920112.6		
	DRAG	966043.1		
DK4489	ISBA IRAQ SURY BAGHDAD CORS ARP			378399.5

NEAREST NGS PUBLISHED CONTROL POINT

DK4115 IQALUIT WAAS CORS ARP N634353.319 W0683235.430 7398511.8

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.