



Real Distance <realdistanceltd@gmail.com>

OPUS solution : TkrR99IRQ_R_20222380000_01D_01S.22O OP1662040160883

1 message

opus <opus@ngs.noaa.gov>
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Thu, Sep 1, 2022 at 4:51 PM

FILE: TkrR99IRQ_R_20222380000_01D_01S.22O OP1662040160883

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 DATE: September 01, 2022
 RINEX FILE: tkr238a.22o TIME: 13:50:50 UTC

SOFTWARE: page5 2008.25 [master296.pl](#) 160321 START: 2022/08/26 00:00:00
 EPHEMERIS: igr22245.eph [rapid] STOP: 2022/08/26 09:00:00
 NAV FILE: brdc2380.22n OBS USED: 28272 / 29026 : 97%
 ANT NAME: UNIUA35 NONE # FIXED AMB: 106 / 121 : 88%
 ARP HEIGHT: 0.000 OVERALL RMS: 0.014(m)

REF FRAME: NAD_83(2011)(EPOCH:2010.0000) ITRF2014 (EPOCH:2022.6498)

| | | | | |
|----|----------------|----------|----------------|----------|
| X: | 3799971.459(m) | 0.006(m) | 3799969.901(m) | 0.006(m) |
| Y: | 3628487.695(m) | 0.001(m) | 3628489.418(m) | 0.001(m) |
| Z: | 3604021.118(m) | 0.004(m) | 3604022.426(m) | 0.004(m) |

| | | | | |
|---------|-----------------|----------|-----------------|----------|
| LAT: | 34 37 39.44766 | 0.002(m) | 34 37 39.48143 | 0.002(m) |
| E LON: | 43 40 39.28400 | 0.004(m) | 43 40 39.37519 | 0.004(m) |
| W LON: | 316 19 20.71600 | 0.004(m) | 316 19 20.62481 | 0.004(m) |
| EL HGT: | 123.865(m) | 0.006(m) | 124.660(m) | 0.006(m) |

ORTHO HGT: [No NGS Geoid Model Available.]

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 38) *** NOTE ***

| | | |
|-----------------------|-------------|------------------------|
| Northing (Y) [meters] | 3832544.299 | Please manually select |
| Easting (X) [meters] | 378778.915 | SPC zone. |
| Convergence [degrees] | -0.75154444 | |
| Point Scale | 0.99978112 | |
| Combined Factor | 0.99976168 | |

US NATIONAL GRID DESIGNATOR: 38SLD7877932544(NAD 83)

BASE STATIONS USED

| PID | DESIGNATION | LATITUDE | LONGITUDE | DISTANCE(m) |
|-----|-------------|----------|-----------|-------------|
| | BSHM | | 827246.8 | |
| | ISBA | | 159045.9 | |
| | ISNA | | 296759.8 | |

NEAREST NGS PUBLISHED CONTROL POINT

Information on nearest mark is not available due to database connectivity issues or has restrictions on when or how it can be published.

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.