

**Subject:** OPUS solution : tida28000.22o OP1666029649478**From:** opus <opus@ngs.noaa.gov>**Date:** 10/17/2022, 4:02 PM**To:** vkbellis@gmail.com

FILE: tida28000.22o OP1666029649478

## 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: [vkbellis@gmail.com](mailto:vkbellis@gmail.com)

DATE: October 17, 2022

RINEX FILE: tida280q.22o

TIME: 20:01:41 UTC

|             |                                   |              |                     |
|-------------|-----------------------------------|--------------|---------------------|
| SOFTWARE:   | page5 2008.25 master271.pl 160321 | START:       | 2022/10/07 16:40:00 |
| EPHEMERIS:  | igr22305.eph [rapid]              | STOP:        | 2022/10/07 20:40:00 |
| NAV FILE:   | brdc2800.22n                      | OBS USED:    | 9682 / 10589 : 91%  |
| ANT NAME:   | TPSHIPER_LITE NONE                | # FIXED AMB: | 57 / 61 : 93%       |
| ARP HEIGHT: | 2.000                             | OVERALL RMS: | 0.014(m)            |

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

ITRF2014 (EPOCH:2022.7665)

|    |                 |          |                 |          |
|----|-----------------|----------|-----------------|----------|
| X: | 1703831.594(m)  | 0.004(m) | 1703830.599(m)  | 0.004(m) |
| Y: | -4235455.323(m) | 0.011(m) | -4235453.914(m) | 0.011(m) |
| Z: | 4439080.771(m)  | 0.015(m) | 4439080.826(m)  | 0.015(m) |

|            |                 |          |                                   |          |
|------------|-----------------|----------|-----------------------------------|----------|
| LAT:       | 44 23 20.98864  | 0.006(m) | 44 23 21.02795                    | 0.006(m) |
| E LON:     | 291 54 49.86310 | 0.007(m) | 291 54 49.84517                   | 0.007(m) |
| W LON:     | 68 5 10.13690   | 0.007(m) | 68 5 10.15483                     | 0.007(m) |
| EL HGT:    | -20.730(m)      | 0.015(m) | -21.891(m)                        | 0.015(m) |
| ORTHO HGT: | 3.088(m)        | 0.056(m) | [NAVD88 (Computed using GEOID18)] |          |

|                       | UTM COORDINATES | STATE PLANE COORDINATES |
|-----------------------|-----------------|-------------------------|
|                       | UTM (Zone 19)   | SPC (1801 ME E)         |
| Northing (Y) [meters] | 4915503.920     | 80353.912               |
| Easting (X) [meters]  | 572786.655      | 332972.379              |
| Convergence [degrees] | 0.63929167      | 0.28950278              |
| Point Scale           | 0.99966515      | 0.99991337              |
| Combined Factor       | 0.99966840      | 0.99991662              |

US NATIONAL GRID DESIGNATOR: 19TEK7278715504(NAD 83)

## BASE STATIONS USED

| PID    | DESIGNATION                 | LATITUDE    | LONGITUDE    | DISTANCE(m) |
|--------|-----------------------------|-------------|--------------|-------------|
| D02058 | MEWA WALDO CORS ARP         | N442715.192 | W0690549.489 | 80829.5     |
| DN9938 | MEMA MACHIAS CORS ARP       | N444235.480 | W0672729.754 | 61312.3     |
| DR3051 | MERO MERO ROCKLAND CORS ARP | N440649.623 | W0690707.123 | 87954.7     |

## NEAREST NGS PUBLISHED CONTROL POINT

|        |                |                          |     |
|--------|----------------|--------------------------|-----|
| PE0239 | TIDAL 4 STA 10 | N442300021. W0680500010. | 3.0 |
|--------|----------------|--------------------------|-----|

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.