



# NOAA's Online Positioning User Service (OPUS)

**NOAA's National Geodetic Survey (NGS)** provides simplified access to high-accuracy **National Spatial Reference System (NSRS)** coordinates via a Web service called the **Online Positioning User Service (OPUS)**. A user may upload to OPUS a GPS data file collected with a survey-grade receiver and obtain an NSRS position via email.

OPUS is one of the most popular of the NGS suite of geodetic tools. Every month, users voluntarily upload tens of thousands of GPS data files; each is automatically processed using standard NGS data and models to compute an accurate position.

OPUS requires minimal user input and uses software which computes coordinates for NGS' **Continuously Operating Reference Station (CORS)** network. The resulting positions are accurate and consistent with other National Spatial Reference System users.

OPUS provides several report formats, including a streamlined option for sharing reports on monumented survey control, such as tidal bench marks and other survey disks. The features provided by OPUS processing, storage, and formatting make the user's survey results more consistent, reliable, and accessible.

**For more information, contact NGS:**

- **On the Web**  
geodesy.noaa.gov/OPUS
- **By email**  
ngs.OPUS@noaa.gov



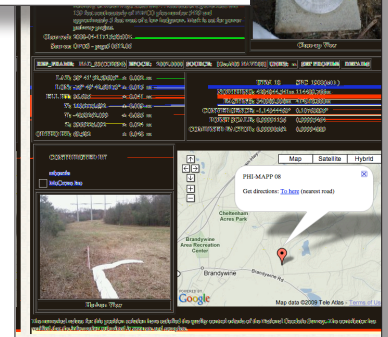
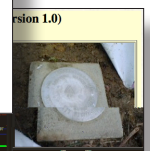
NGS OPUS SOLUTION REPORT

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USER: jia_20080308a.gpx          DATE: April 21, 2008
INDEX FILE: 80521014.D00        TIME: 14:12:02 ZTC
LAT: 33 41 45.77890  0.008(m)  33 41 45.79938  0.008(m)
E LONG: 266 23 59.54313  0.003(m)  266 23 59.51168  0.003(m)
N LONG: 33 56 11.92787  0.003(m)  33 56 11.98822  0.003(m)
EADJUST: 75.487(m)  0.021(m)  74.627(m)  0.021(m)
ORIG DATE: 20080308  0.000(m)  (Week003 NAVD83)

UTM COORDINATES      STATE PLANE COORDINATES
UTM (Zone 18)         SPC (Zone 18 S)
Northing (N) (meters)  3726471.024          4126311.084
Easting (E) (meters)   444343.243          251621.109
Convergence (degrees)  -0.000000047         -0.000000049
Point Scale             0.999998813         0.999998810
Combined Scale         0.999998828         0.999998819

US NATIONAL GRID DESIGNATION: 18PTF43442617 (Zone 18)
    
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NSRS Coordinates