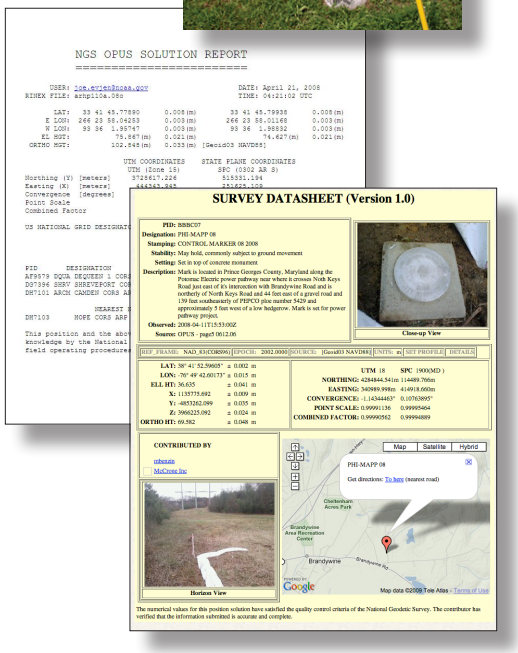
NOAA's Online Positioning User Service (OPUS)

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 submit 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 submit 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 now provides a streamlined method for publishing the location of monumented survey control, such as tidal bench marks and other survey disks. This new OPUS option allows users to permanently share their solution report via the NGS website. 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

NSRS Coordinates OPUS