

NOAA's National Geodetic Survey

The National Geodetic Survey (NGS) develops and maintains the National Spatial Reference System (NSRS). This system defines latitude, longitude, height, scale, gravity, orientation, and shoreline throughout the United States. NSRS provides the foundation of accuracy for reliable transportation, communication, and defense systems, boundary and property surveys, land record systems, mapping and charting, public utilities, coastal zone management, natural resource conservation, and numerous scientific and engineering applications. NGS also conducts research to improve the collection, distribution, and use of spatial data.

Since 1807, NGS and its predecessor agencies have led the world in precise positioning and developing several emerging technologies for the public, including electronic distance measuring instruments and Global Positioning System (GPS) surveying techniques.

Today NGS provides its expertise and a wealth of free information, including direct access to its data base, on the Web at: www.ngs.noaa.gov



Positioning America for the Future

For more information on the products and services listed in this brochure, contact:

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On the Web: www.ngs.noaa.gov

For aerial photographs, contact:

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For calibration base lines, contact:

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Positioning America for the Future

NOAA - NATIONAL GEODETIC SURVEY

User Guide

Guide To Products and Services

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric
Administration
National Geodetic Survey
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PRODUCTS

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Here is a summary of the many information products NGS distributes:

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SOFTWARE PROGRAMS for numerous spatial data applications are available on diskette or free from the NGS Web site.

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DATA SHEETS - control-point position, height, and descriptive information in a single format - are available free from the NGS website.

Numerous **PUBLICATIONS** are available for a nominal fee. Digital copies are free from the NGS Web site.

AERIAL PHOTOGRAPHS cover U.S. coastlines, airports, and the Great Lakes, and are usually exposed at scales from 1:10,000 to 1:50,000. Georeferenced, high-resolution photographs delineate the **SHORELINE** and its features.

GLOBAL POSITIONING SYSTEM orbital parameters are available on diskette or free from the NGS Web site.

NATIONAL CORS DATA from GPS Continuously Operating Reference Stations is free from the NGS Web site.

NGS provides **AERONAUTICAL DATA** - position, height and orientation data for safe air navigation.

SERVICES

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NGS also provides the following services:

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NGS STATE ADVISORS guide and assist a participating state's geodetic programs. The advisors instruct local surveyors and others on how to use and preserve the National Spatial Reference System.

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NGS conducts **TRAINING WORKSHOPS** throughout the United States, and develops new workshops on request.

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With the NGS **ONLINE TOOL KIT** you can convert a position from one datum to another, estimate crustal motion and gravity values, and much more.

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NGS helps local organizations establish **CALIBRATION BASE LINES** - permanently marked courses for calibrating electronic distance measuring instruments.

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Obtain **DIRECT ACCESS TO THE NGS DATA BASE** via the Internet or by calling the NGS Information Services Branch.

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NGS PUBLISHES YOUR SURVEYING DATA and includes it in the National Spatial Reference System when it meets federal accuracy standards and is submitted in a prescribed format.

WEB RESOURCES

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Nearly all of our products and services are available on our Web site and ***all of them are free***. At www.ngs.noaa.gov you'll find:

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- **ONLINE COMPUTATION RESOURCES:** use your data, along with NGS software programs, to perform computations and datum transformations,
 - **LINKS TO GLOBAL EARTH SCIENCE RESOURCES:** connect with the numerous online resources of universities, scientific organizations, professional groups, and government agencies from around the world,
 - **VALUABLE INFORMATION LINKS:** contact a local state advisor, direct a question to an NGS scientist, or find current job vacancies in NOAA,
 - **NATIONAL CORS NETWORK DATA:** information from a network of continuously operating GPS reference stations,
 - **SOFTWARE PROGRAMS:** free downloads for numerous geographic applications,
 - **PUBLICATIONS:** stay current with the evolution of precise positioning with free online publications,
 - **DATA SHEETS:** retrieve position and height information directly from the NGS data base.
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It's All Just a Click Away!