

Methodology Work Group

- **provide basic information to guide organizations in accomplishing surveys** that meet the provisions for inclusion in the National Spatial Reference System.
- **revise, update, and prepare for publication, various publications dealing with the standards of accuracy and general specifications for geodetic control** and related surveying activities to support the geodetic control networks, as well as lower-order control surveying for cadastral, topographic, hydrographic, bathymetric, and related resource and facility mapping activities of Federal agencies.
- **instruct surveying organizations** in the implementation of new methodology.

provide basic information to guide organizations in accomplishing surveys ...

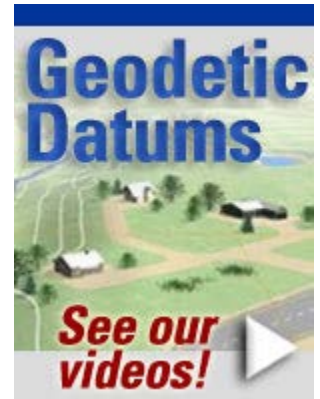
- [Standards and Specifications for Geodetic Control Networks](#) *(September 1984)*
- GPS guidelines: none.
[NGS has published a few](#)
- Leveling guidelines: [FGCS Specifications and Procedures to Incorporate Electronic Digital/Bar-Code Systems](#) [PDF] *(Adopted 14 June 1995)*
- Gravity guidelines: none recent.
NGS has published [GRAVD Field Operations Handbook](#)

revise, update, and prepare for publication, various publications dealing with the standards of accuracy and general specifications for geodetic control ...

- [Geospatial Positioning Accuracy Standards \(1998\)](#)
- [Input Formats & Specifications of the NGSurvey Data Base](#) - ***The NGS "Bluebook"***
 - guidelines, uses for OPUS sharing?

instruct surveying organizations ...

- <http://www.ngs.noaa.gov/corbin/>



mandatory metadata for exchange of federal Geodetic Control Data

2 designation - permanentIdentifier	DU0546
3 designation - namespace	NGS
4 designation - URL	http://geodesy.noaa.gov/cgi-bin/ds2.prl?retrieval_type=by_pid&PID=DU0546
5 coordinates – horizontal – latitude	33.0551990305
6 coordinates – horizontal – longitude	-111.4089207500
7 coordinates – horizontal – geodeticDatum – baseDatum	NAD 83
8 coordinates – horizontal – geodeticDatum – datumTag	2011
9 coordinates – horizontal – geodeticDatum – epochDate	2010.00
10 coordinates – horizontal – accuracy – local	0.56
11 coordinates -- horizontal -- accuracy -- network	0.33
12 coordinates – vertical – ellipsoidHeight	503.783
13 coordinates – vertical – ellipsoidHeight – geodeticDatum – baseDatum	NAD 83
14 coordinates – vertical – ellipsoidHeight – geodeticDatum – datumTag	2011
15 coordinates – vertical – ellipsoidHeight – geodeticDatum – epochDate	2010.00
16 coordinates – vertical – ellipsoidHeight – accuracy – local	1.33
17 coordinates -- vertical -- ellipsoidHeight -- accuracy -- network	0.82

18 Jim Garster: ADD: designation: agency USGS nice, not fundamental.

19 Jim Garster: ADD: coordinates - horizontal - Method Adjusted nice, not fundamental.

20 Jim Garster: ADD: coordinates - vertical - ellipsoidHeight - Method Adjusted nice, not fundamental.

21 optional: orthometric height; but if provided, then the associated elements (datum, accuracy) are required. agreed; includes the full suite (datum, tag, epoch, local, network). We don't have this level of detail in IDB, though some are implied, so this might take more debate.

22 Tom Johnson (NASA): ADD: occupationDateandTime (date and time when site was measured) mm/dd/yyyy HH:MM:SS nice, not fundamental. EPOCH already links space and time.

23 David Davis: ADD: description nice, not fundamental.

Example: PT (point), MON (monument), INT (intersect), COR (Corner), T-RD (T Road), CL (center line), SW (sidewalk), DWY (driveway). nice, not fundamental.

24 David Davis: ADD: photo-identifiable? nice, not fundamental, NOT IN IDB, not easy to manage.

Example: Y (yes), N (no), <1ft, <1m (visible on imagery with a GSD of 1 foot or 1 meter)

25 David Davis: ADD: Supplemental Data nice, not fundamental.

Example: links or references to sources of additional information about the data.

This could include sketches, maps, photos, URLs, documents, and so forth

nice, not fundamental