Using DSWorld

What is DSWorld

• **Description**:

- DSWorld was originally designed to display datasheet information in a "world view", hence its name.
- Since its inception, it has been greatly enhanced to the point of being a major interface with NGS and the NGS Integrated Database (IDB).
- It provides Land Surveyors, GIS professionals and the general public with important up-to-date geodetic control information at the click of a button.

What DSWorld Can do

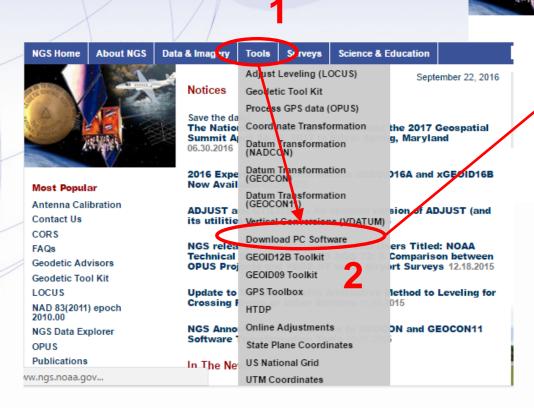
- DSWorld allows users
 - To submit recoveries
 - Correct informational fields (state, county, etc.)
 - View locations of mark
 - Download datasheets
 - Rename and submit photographs
 - So much more almost overwhelming!
 - We will focus on the use of DSWorld in mark maintenance and recovery.

Science & Education

Search

Download and Install

About NGS Data & Imagery Tools

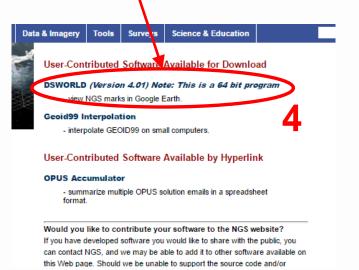


You also need to install Google Earth

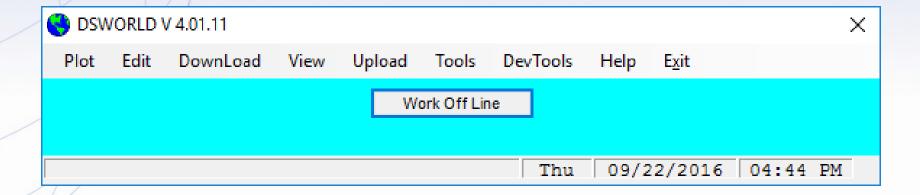
Download Free Geodetic Software Developed by NGS ADJUST & UTILITIES DSWIN SPC S83 CALIBRAT DSFILES INTERORB TOLADD CARIB97 DSUPDATE INV/FWD3D Translev COMPGB **ENHANCEMENTS** LOOP USNG COMPVECS G99SSS LVL DH USGG2003 CORPSCON GEOID MEXICO97 USGG2009 CR8BB Gethylst MTEN4 UTMS CR8SER **GPPCGP** NA2VBBK VDatum DCAR97 NADCON VERTCON DEFLEC99 **PCVOBS** WinDesc DMFX97 PROMPTER XYZWIN If you have questions, refer to the Software Download FAQ. unload problems, contact the NGS Webmaster. User-Contributed Software is also available to perform related functions. Descriptions of Free Geodetic Software Developed by NGS ADJUST AND UTILITIES Programs and utilies to perform least squares adjustment on horizontal, vertical angle, and/or GPS observations. Data checking programs are included. CALIBRAT (Version 1.0) This program is used to determine the scale and constant corrections for electronic distance measuring

instruments by making measurements over previously determined base lines. The formulas used in the

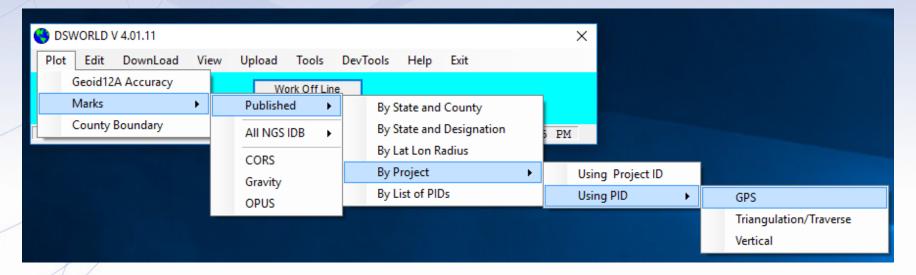
program are found in NOAA Technical Memorandum NOS NGS-10, "Use of Calibration Base Lines."



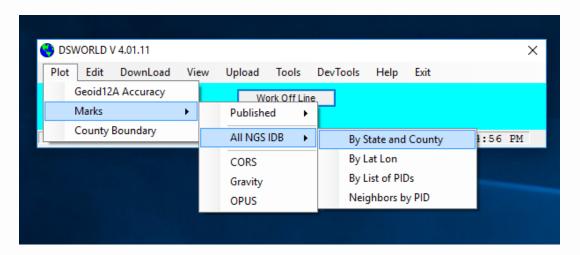
Interface



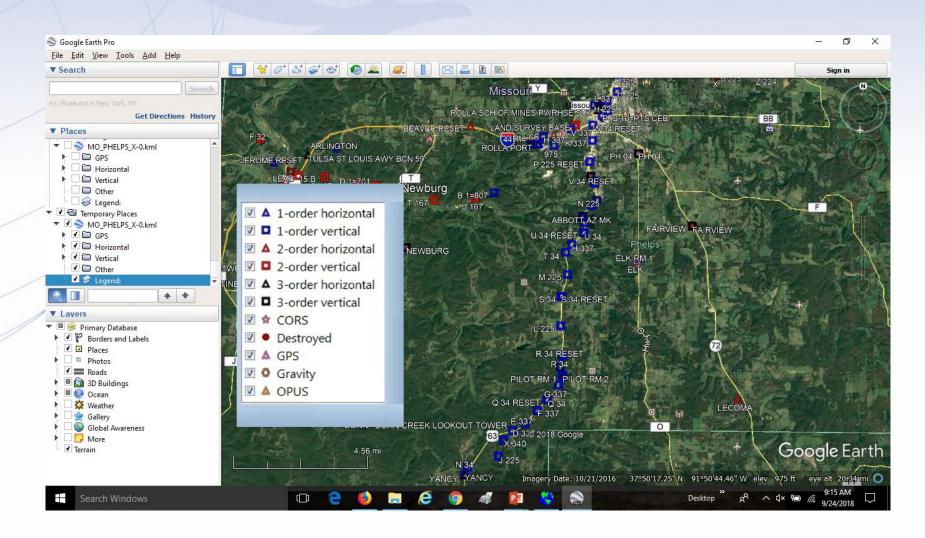
PLOT



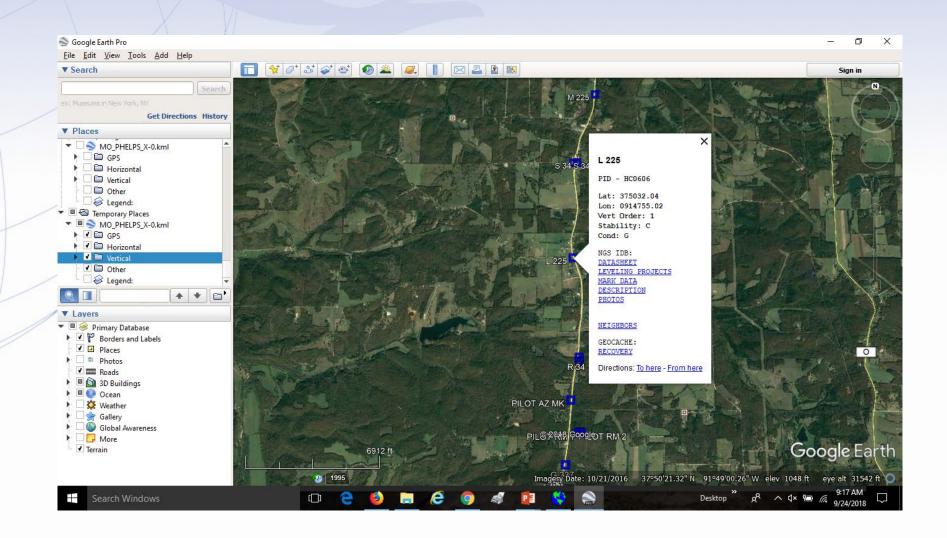
OR:



Phelps County



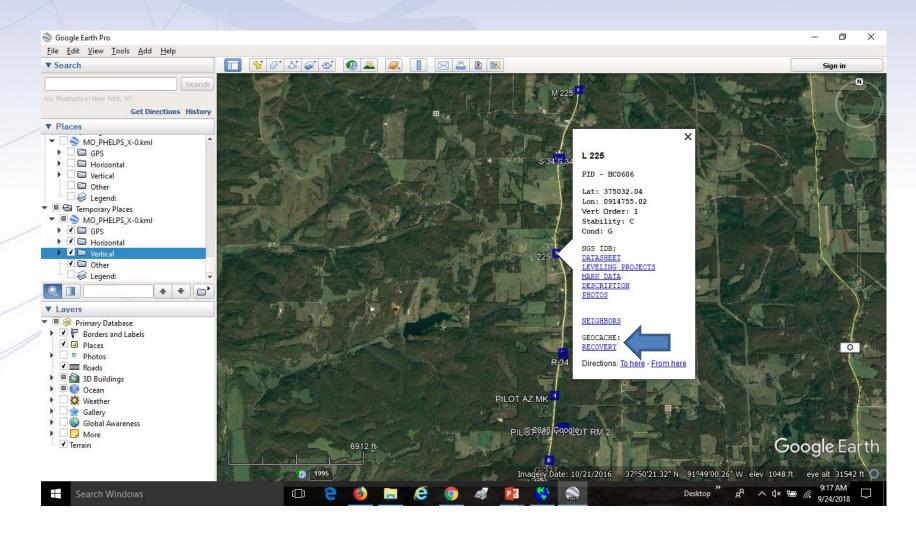
Bench Mark-L 225



NGS Datasheet-L 225

```
PROGRAM = datasheet95, VERSION = 8.12.5
       National Geodetic Survey, Retrieval Date = SEPTEMBER 24, 2018
HC0606
HC0606 DESIGNATION - L 225
HC0606 PID
                  - HC0606
HC0606 STATE/COUNTY- MO/PHELPS
HC0606 COUNTRY - US
HC0606 USGS QUAD - YANCY MILLS (1982)
HC0606
HC0606
                             *CURRENT SURVEY CONTROL
HC0606
HC0606* NAD 83(1986) FOSITION- 37 50 32.04 (N) 091 47 55.02 (W) HD HELD1
HC0606* NAVD 88 ORTHO HEIGHT - 333.264 (meters) 1093.38 (feet) ADJUSTED
                          -30.583 (meters)
                                                                 GEOTD12B
HC0606 GEOID HEIGHT -
HC0606 DYNAMIC HEIGHT -
                              333.015 (meters) 1092.57 (feet) COMP
HC0606 MODELED GRAVITY - 979,872.7 (mgal)
                                                                  NAVD 88
HC0606
HC0606 VERT ORDER
                    - FIRST CLASS II
HC0606. The horizontal coordinates were determined by differentially corrected
HC0606.hand held GPS observations or other comparable positioning techniques
HC0606.and have an estimated accuracy of +/- 3 meters.
HC0606. The orthometric height was determined by differential leveling and
HC0606.adjusted by the NATIONAL GEODETIC SURVEY
HC0606.in June 1991.
HC0606
HC0606. Significant digits in the good height do not necessarily reflect accuracy.
HC0606.GEOID12B height accuracy estimate available here.
HC0606. The dynamic height is computed by dividing the NAVD 88
HC0606.geopotential number by the normal gravity value computed on the
HC0606.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
HC0606.degrees latitude (g = 980.6199 gals.).
HC0606
HC0606. The modeled gravity was interpolated from observed gravity values.
HC0606:
                         North
                                      East Units Estimated Accuracy
HC0606:SPC MO C - 223,153.9
                                  561,732.2 MT (+/- 3 meters HH1 GPS)
HC0606 U.S. NATIONAL GRID SPATIAL ADDRESS: 15SXB0570588990(NAD 83)
                              SUPERSEDED SURVEY CONTROL
HC0606
HC0606
HC0606 NGVD 29 (??/??/92) 333.202 (m)
                                              1093.18 (f) ADJ UNCH 1 2
HC0606.Superseded values are not recommended for survey control.
HC0606.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
HC0606.See file dsdata.pdf to determine how the superseded data were derived.
HC0606 MARKER: DB = BENCH MARK DISK
HC0606 SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
HC0606 STAMPING: L 225 1949
HC0606 MARK LOGO: CGS
HC0606 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
HC0606+STABILITY: SURFACE MOTION
HC0606 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
HC0606+SATELLITE: SATELLITE OBSERVATIONS - June 02, 2016
HC0606 HISTORY - Date Condition
                                             Report By
HC0606 HISTORY - 1949 MONUMENTED
                                             CGS
HC0606 HISTORY
                  - 19890718 GOOD
                                             NGS
HC0606 HISTORY
                  - 20160602 GOOD
                                             DOASLS
```

Bench Mark-L 225



GEOCACHES



Documented History (by the NGS)

01/01/1949 by CGS (MONUMENTED)

DESCRIBED BY COAST AND GEODETIC SURVEY 1949 7.7 MI S FROM ROLLA. ABOUT 7.7 MILES SOUTH ALONG U.S. HIGHWAY 63 FROM THE JUNCTION OF U.S. HIGHWAY 66 IN WEST ROLLA, AT THE T JUNCTION OF A GRAVEL ROAD LEADING WEST, 92 FEET NORTHWEST OF A FENCE CORNER, 75 FEET SOUTH OF THE CENTER LINE OF THE GRAVEL ROAD, 72.5 FEET SOUTHWEST OF THE CENTER LINE OF THE HIGHWAY, 68 FEET SOUTHEAST OF A FENCE CORNER, 30 FEET NORTHWEST OF A TELEPHONE POLE, 1.5 FEET NORTHEAST OF THE R/W FENCE, 2 FEET SOUTHEAST OF A WHITE WOODEN WITNESS POST, ABOUT 3 FEET ABOVE THE LEVEL OF THE HIGHWAY AND SET IN THE TOP OF A CONCRETE POST PROJECTING 4 INCHES.

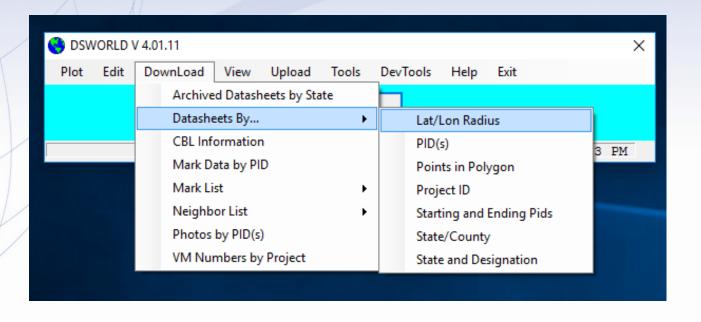
07/18/1989 by NGS (GOOD)

RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1989 RECOVERED IN GOOD CONDITION. A NEW DESCRIPTION FOLLOWS. 15.1 KM (9.4 MI) SOUTHERLY ALONG U.S. HIGHWAY 63 FROM ITS JUNCTION WITH INTERSTATE HIGHWAY 44 IN ROLLA, 22.9 M (75.1 FT) SOUTH OF THE CENTER OF COUNTY ROAD 233, 22.1 M (72.5 FT) SOUTHWEST OF THE CENTERLINE OF THE HIGHWAY, 0.9 M (3.0 FT) ABOVE THE LEVEL OF THE HIGHWAY, 0.2 M (0.7 FT) NORTHEAST OF A WITNESS POST, AND IN A CONCRETE MONUMENT THAT PROJECTS 0.03 M (0.1 FT) ABOVE THE GROUND SURFACE.

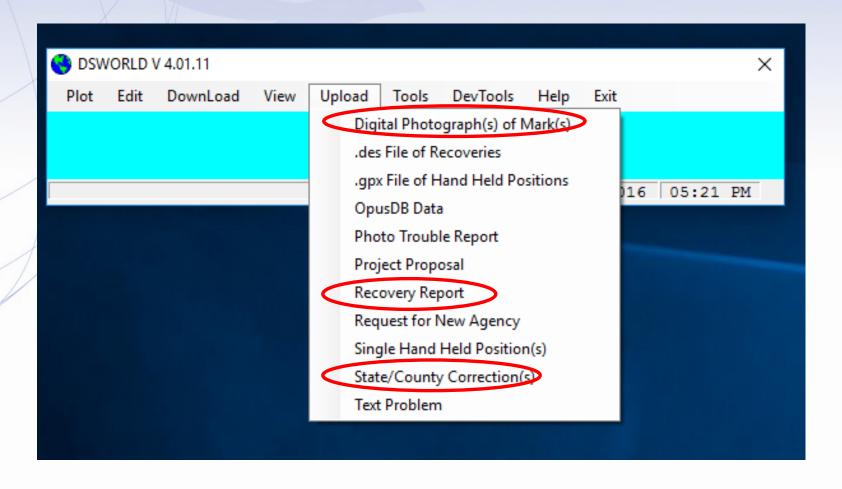
Near by BM's

Icon	PID	Dist	Designation	State	Туре	Found	Last Log	d/I
•	HC0606	0mi	L 225	MO	bench mark disk	05/11/2005	*	
•	HC0609	1mi N	S 34 RESET	MO	survey disk	05/04/2004	4	
?	HC0608	1mi N	S 34 RESET	MO	bench mark disk			
	HC0607	1mi N	S 34	МО	bench mark disk			
	HC0604	1mi S	R 34	MO	bench mark disk			
•	HC0605	1.1mi S	R 34 RESET	МО	bench mark disk	05/04/2004	*	
•	HC0603	1.4mi S	PILOT AZ MK	MO	azimuth mark disk	05/11/2005	4	
1	HC0600	1.7mi S	PILOT	MO	triangulation station disk		1	
1	HC0601	1.7mi S	PILOT RM 1	MO	reference mark disk		1	
1	HC0602	1.7mi S	PILOT RM 2	MO	reference mark disk		1	
•	HC0610	1.8mi N	M 225	MO	bench mark disk	05/11/2005	&	
1	HC1107	2.1mi S	G 337	МО	metal rod	05/11/2005	\$	
•	HC0612	2.5mi N	T 34 RESET	MO	bench mark disk	05/04/2004	*	
	HC0611	2.6mi N	T 34	МО	bench mark disk			
•	HC0613	2.6mi N	GAGING STATION	MO	survey disk	05/04/2004	4	
	HC0598	2.6mi S	Q 34	МО	bench mark disk			
	HC0599	2.6mi S	Q 34 RESET	MO	bench mark disk			
*	HC1108	2.9mi N	H 337	MO	metal rod	05/11/2005	&	

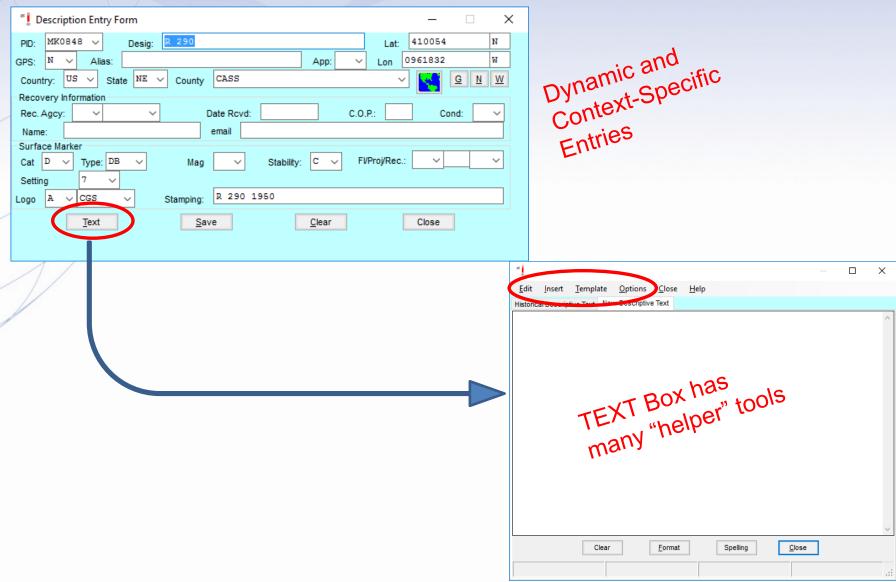
DOWNLOAD



UPLOAD

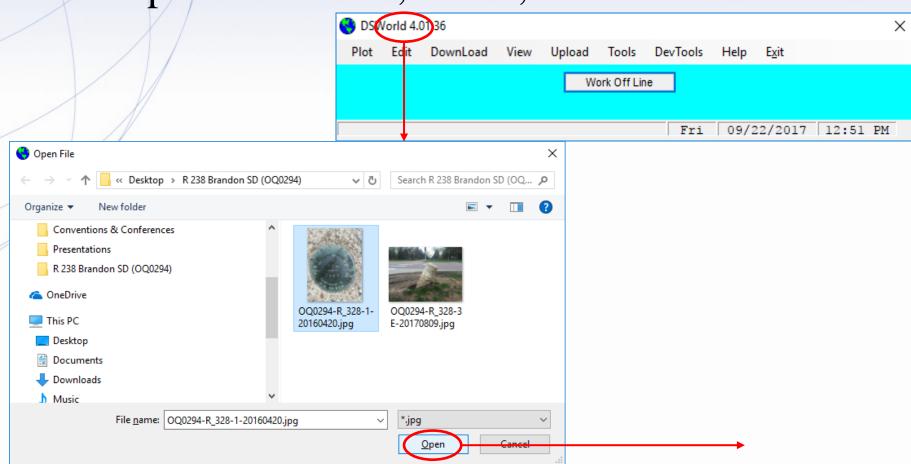


UPLOAD – Recovery Report



PHOTOS

• *Edit* photos – name, resize, etc.

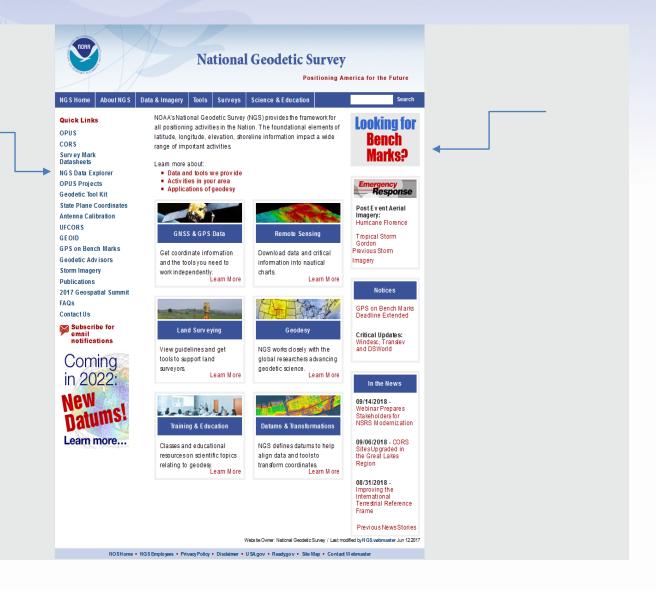


SAVE

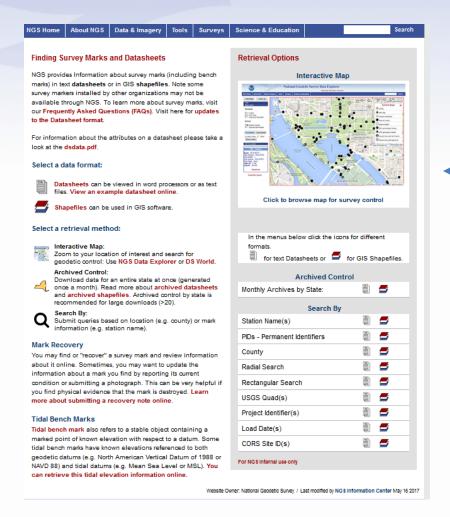
- When finished editing, click SAVE
- You will get a confirmation message
- The uploaded data will be inserted in the NGSIDB within 20 days. Maybe sooner.

• NGS wants users to use DSWorld – rather than the on-line recovery tool.

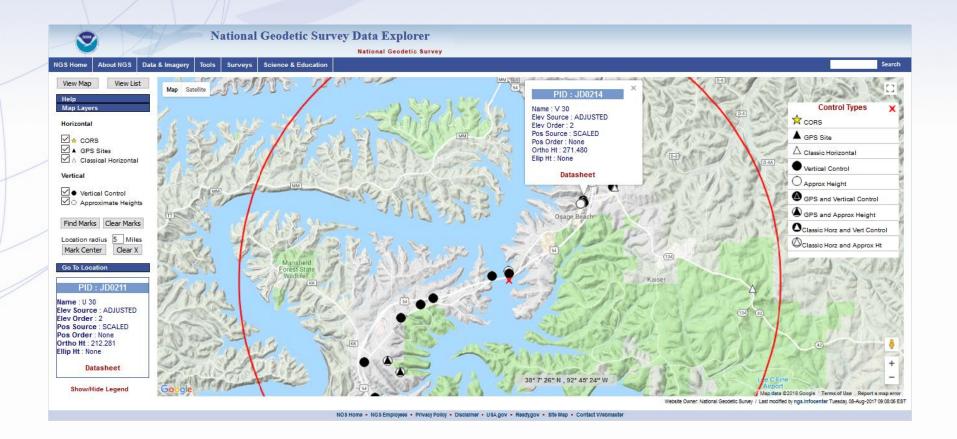
NGS DATA EXPLORER



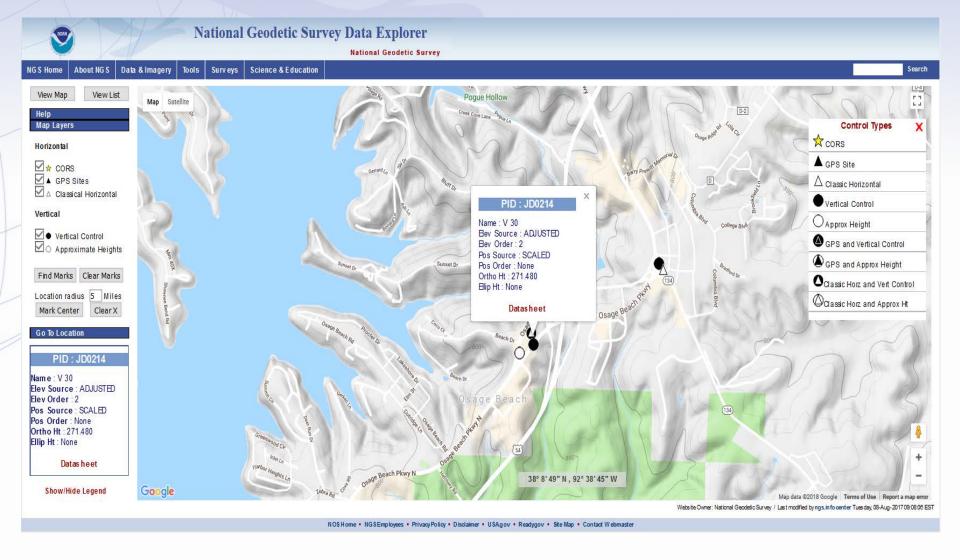
NGS DATA EXPLORER



5 Mile Radius Search



Bench Mark- V 30



View List

View Map

View List

Help

Map Layers

Horizontal

✓ ▲ GPS Sites

☑ △ Classical Horizontal

Vertical

✓ ● Vertical Control

Find Marks | Clear Marks

Location radius 5 Miles

Mark Center Clear X

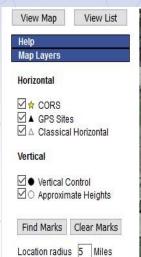
Go To Location

Site Info

Mouse over plotted marks to view information here.

	JD0206	851.9	Vertical Control	ADJUSTED	2	SCALED	None	259.769	None	٨
	JD0207	T 30	Vertical Control	ADJUSTED	2	SCALED	None	249.932	None	
	JD0208	T 30 RESET	Vertical Control	RESET	3	SCALED	None	253.70	None	
	JD0209	TTS 161 B	Vertical Control	ADJUSTED	2	HD_HELD2	None	241.713	None	
	JD0210	696.1	Vertical Control	ADJUSTED	2	SCALED	None	212.254	None	
	JD0211	U 30	Vertical Control	ADJUSTED	2	SCALED	None	212.281	None	
	JD0212	TT 160 B	Vertical Control	ADJUSTED	2	HD_HELD2	None	273.375	None	
	JD0213	TTS 160 B RESET	Approximate Height	VERTCON	None	HD_HELD2	None	272.83	None	
	JD0214	V 30	Vertical Control	ADJUSTED	2	SCALED	None	271.480	None	
	JD0215	898.7	Vertical Control	ADJUSTED	2	SCALED	None	273.996	None	
	JD0216	836.7	Vertical Control	ADJUSTED	2	SCALED	None	255.103	None	
	JD0217	W 30	Vertical Control	ADJUSTED	2	SCALED	None	254.975	None	
	JD0220	X 30	Vertical Control	ADJUSTED	2	SCALED	None	238.883	None	
	JD0221	X 30 RESET	Approximate Height	VERTCON	None	SCALED	None	239.52	None	
	JD0222	25 J	Vertical Control	ADJUSTED	2	HD_HELD1	None	205.425	None	
	JD2565	BAGNELL MAN UNION ELEC TANK	Classic Horizontal	None	None	ADJUSTED	3	None	None	
	JD2566	RIVER VIEW	Classic Horizontal	SCALED	None	ADJUSTED	3	277.	None	
1	JD2567	KAISER	Classic Horizontal	SCALED	None	ADJUSTED	1	308.	None	
	JD2790	LINNPORT	GPS and Approximate Height	VERTCON	None	ADJUSTED	3	264.9	233.2484	
	JD2791	LINNPORT AZ MK	GPS and Approximate Height	VERTCON	None	NO CHECK	3	261.	229.3264	
	JD2799	RIVER VIEW AZ MK 3	Classic Horizontal and Vertical Control	RESET	3	NO CHECK	3	272.86	None	
1										M

Satellite View



Go To Location

Mark Center

PID: JD0214

Clear X

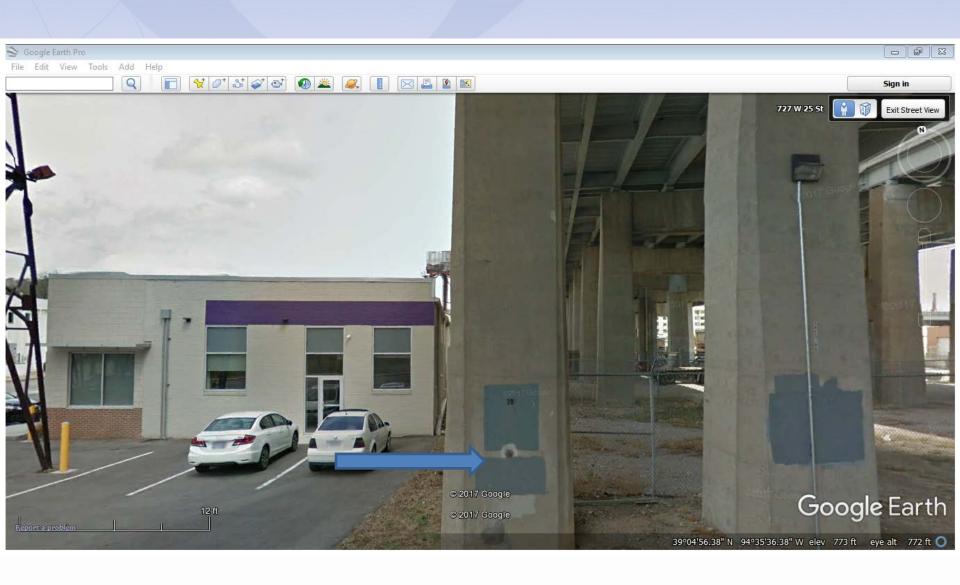
Name: V 30 Elev Source: ADJUSTED Elev Order: 2 Pos Source: SCALED Pos Order: None Ortho Ht: 271,480

Datasheet

Ellip Ht : None

Show/Hide Legend

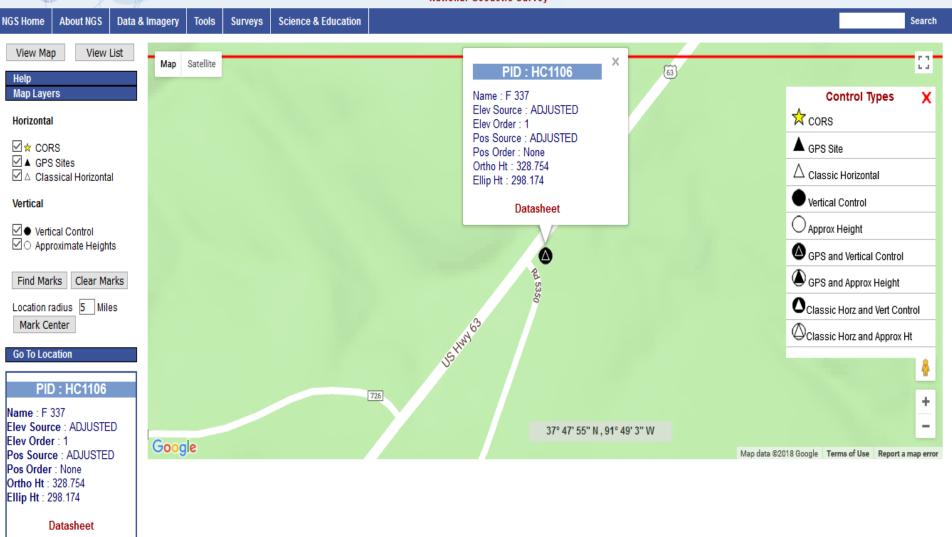






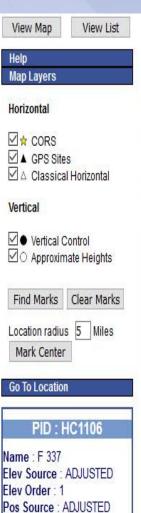
National Geodetic Survey Data Explorer

National Geodetic Survey



Show/Hide Legend

Website Owner: National Geodetic Survey / Last modified by ngs.infocenter Tuesday, 08-Aug-2017 09:08:06 EST





Datasheet

Pos Order: None Ortho Ht: 328.754 Ellip Ht: 298.174

The NSRS of Tomorrow (2022)

Primary elements:

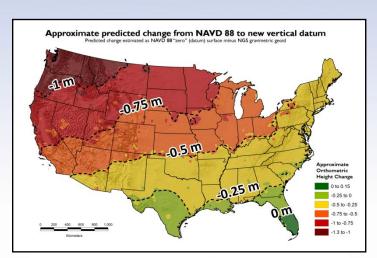
- The geometric North American Terrestrial Reference Frame of 2022 (NATRF2022) plus the Caribbean, Pacific, and Mariana plates
- The North American-Pacific Geopotential Datum of 2022 (NAPGD2022)

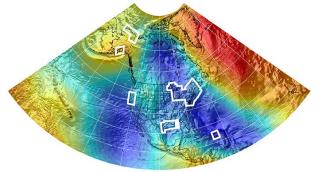
New reference system is:

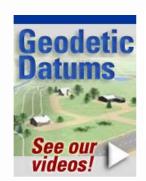
- Geocentric and defined by relationships to a global/international ideal frame;
- Time-dependent; and
- Primarily accessed via GPS technology and a newly refined semidynamic geoid model

New Datums Are Coming in 2022!

- NOAA's National Geodetic Survey will release new geometric (horizontal) and geopotential (vertical) datums in 2022
- The realization of the new datums will be through GPS/GNSS receivers and will replace the current datums:
 - NAD 83(geometric) and NAVD 88 (geopotential)
- Target: 2-centimeter accuracy relative to sea level (orthometric heights) using GPS/GNSS and a geoid (gravity) model from NGS' GRAV-D project.
- NGS will provide the tools to transform between the new and old datums.



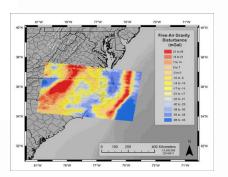




MORE INFO:

New Datums Webpage and Videos:

lwww.ngs.noaa.gov/datums/newdatums/index.shtml



About NGS



National Geodetic Survey

Science & Education

Positioning America for the Future

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OPUS

Thanks

Attending

for

CORS

Survey Mark Datasheets NG \$ Data Explorer

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Geodetic Tool Kit

State Plane Coordinates Antenna Calibration

UFCORS GEOID

GPS on Bench Marks

Geodetic Advisors

Storm Imagery

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2017 Geospatiai Summit

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NOAA's National Geodetic Survey (NGS) provides the framework for all positioning activities in the Nation. The foundational elements of latitude, longitude, elevation, shoreline information impact a wide range of important activities.

Surveys

Learn more about:

Data & Imagery

- Data and tools we provide
- Activities in your area
- Applications of geodesy



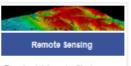
Get coordinate information and the tools you need to work Independently.

Learn More



View guidelines and get tools to support land surveyors.

Learn More



Download data and critical Information into nautical charts.

Learn More



Geodesy

NGS works closely with the global researchers advancing geodetic science.

Leam More



Datums & Transformations

data and tools to transform coordinates.

brian.ward@noaa.gov 240-997-1283

www.ngs.noaa.gov

Notices

Looking for

Bench

Marks?

Beta Release: NADCON 5

Beta Release: CORS & OPUS Share Maps

Previous Notices

Search

In the News

06/08/2017 - New Tool for Easy, Consistent Coordinate Transformations

06/01/2017 - NGS Participates in the International Federation of Surveyors Conference In Helsinki, Finland

05/25/2017 - New Water Levels Training Course for NOAA Sentinel Sites

Previous Notices

Training & Education

Classes and educational resources on scientific topics relating to geodesy. Learn More

NGS defines datums to help align

Learn More

Website Owner: National Geodetic Survey / Last modified by NG 8.webmaster Jun 12 2017

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