

Appendix II

Sample of a National Geodetic Survey (NGS) datasheet linked to the Center for Operational Oceanographic Products and Services (CO-OPS) bench mark web site. This datasheet is for the Atlantic Beach, North Carolina bench mark designated as 865 6590 B. The PID# linking the CO-OPS bench mark sheet to the NGS datasheet is AC7539. On this datasheet, the height of the bench mark (in both meters and feet) above the fixed vertical datum, NAVD 88, is given. Datasheets such as this one were used to calculate the height of MHW above NAVD 88 when the "Bench Mark Method" was used.

From http://www.ngs.noaa.gov/cgi-bin/ds2.prl?retrieval_type=by_pid&PID=AC7539.

The NGS Data Sheet

DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 6.61

1 National Geodetic Survey, Retrieval Date = AUGUST 15, 2002

AC7539 -----

AC7539 TIDAL BM - This is a Tidal Bench Mark.

AC7539 DESIGNATION - 865 6590 B TIDAL

AC7539 PID - AC7539

AC7539 STATE/COUNTY- NC/CARTERET

AC7539 USGS QUAD - BEAUFORT (1987)

AC7539

AC7539 *CURRENT SURVEY CONTROL

AC7539

AC7539*	NAD 83(1986)-	34 41 49.	(N)	076 42 42.	(W)	SCALED
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AC7539*	NAVD 88	-	2.813 (meters)	9.23	(feet)	ADJUSTED
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AC7539

AC7539	GEOID HEIGHT-	-37.45 (meters)				GEOID99
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AC7539	DYNAMIC HT -	2.811 (meters)	9.22	(feet)	COMP
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AC7539	MODELED GRAV-	979,710.6 (mgal)			NAVD 88
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AC7539

AC7539 VERT ORDER - SECOND CLASS II

AC7539

AC7539.The horizontal coordinates were scaled from a topographic map and have
 AC7539.an estimated accuracy of +/- 6 seconds.

AC7539

AC7539.The orthometric height was determined by differential leveling
 AC7539.and adjusted by the National Geodetic Survey in May 1997.

AC7539

AC7539.This Tidal Bench Mark is designated as VM 3564
 AC7539.by the Center for Operational Oceanographic Products and Services.

AC7539

AC7539.The geoid height was determined by GEOID99.

AC7539

AC7539.The dynamic height is computed by dividing the NAVD 88
 AC7539.geopotential number by the normal gravity value computed on the
 AC7539.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AC7539.degrees latitude (g = 980.6199 gals.).

AC7539

AC7539.The modeled gravity was interpolated from observed gravity values.

AC7539

AC7539;		North	East	Units	Estimated Accuracy
AC7539;SPC NC	-	107,460.	819,230.	MT	(+/- 180 meters Scaled)

AC7539

AC7539 SUPERSEDED SURVEY CONTROL

AC7539

AC7539.No superseded survey control is available for this station.

AC7539

AC7539_MARKER: DB = BENCH MARK DISK

AC7539_SETTING: 46 = COPPER-CLAD STEEL ROD W/O SLEEVE (10 FT.+)

AC7539_STAMPING: 6590 B 1976

AC7539_MARK LOGO: NOS

AC7539_MAGNETIC: I = MARKER IS A STEEL ROD

AC7539_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

AC7539_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AC7539+SATELLITE: SATELLITE OBSERVATIONS - November 24, 1992

AC7539

AC7539	HISTORY	- Date	Condition	Report By
AC7539	HISTORY	- 1976	MONUMENTED	NOS
AC7539	HISTORY	- 19921124	GOOD	NCGS

AC7539

AC7539

AC7539

STATION DESCRIPTION

AC7539'DESCRIBED BY NORTH CAROLINA GEODETIC SURVEY 1992 (WLL)

AC7539'STATION IS LOCATED IN EASTERN ATLANTIC BEACH.\$PROCEED ALONG NC 58

AC7539'(FORT MACON BOULEVARD) FOR 2.9 MI (4.7 KM) EAST FROM THE POST OFFICE

AC7539'IN ATLANTIC BEACH TO HENDERSON BOULEVARD, THENCE SOUTH ON HENDERSON

AC7539'BOULEVARD FOR 0.15 MI (0.24 KM) TO COOPER STREET AND STATION IN THE

AC7539'SOUTHWEST QUADRANT. THE BENCH MARK IS CRIMPED TO A COPPER-CLAD STEEL

AC7539'ROD DRIVEN AN UNSPECIFIED DEPTH, AND SURROUNDED BY CONCRETE.\$MARK IS

AC7539'RECESSED 4 INCHES BELOW GROUND AND IS LEVEL WITH HENDERSON BOULEVARD.

AC7539'ORIGINAL REFERENCES WERE NOT VERIFIED.

*** retrieval complete.

Elapsed Time = 00:00:02