

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Ocean Service

[Datums Page](#)

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11/21/1987	PUBLICATION DATE:
Station ID: 8726282	SUPERCEDED DATE:
04/21/2003	
Name: ANNA MARIA CITY PIER, TAMPA BAY FLORIDA	
NOAA Chart: 11414	Latitude: 27°
32.0' N	
USGS Quad: ANNA MARIA	Longitude: 82°
43.8' W	

To reach the tidal bench marks from the Post Office in Anna Maria proceed NW along Gulf Drive (C 789) for 0.3 mile (0.5 km) to Pine Avenue, then NE along Pine Avenue for 0.5 mile (0.8 km) to Anna Maria City Fishing Pier. The bench marks are located along Pine Avenue. The tide gage and staff were located on the NE inside corner of the pier.

T I D A L B E N C H M A R K S

PRIMARY BENCH MARK STAMPING: 6282 A 1976

MONUMENTATION:	Survey Disk	VM#:
6196		
AGENCY:		PID#:
AG7391		
SETTING CLASSIFICATION:	Concrete Catch Basin	

The bench mark is set in the SE corner of a concrete drain ditch, 152 feet (46 m) SW of the centerline of Bay Boulevard, 33.5 feet (10.2 m) NE of a 35 mph speed limit sign post, 20.3 feet (6.2 m) NW of the centerline of Pine Avenue, and 6 feet (2 m) south of the corner of a chain link fence.

BENCH MARK STAMPING: NO 5 1933

MONUMENTATION:	Survey Disk	VM#:
6193		
AGENCY:		PID#:
AG5206		
SETTING CLASSIFICATION:	Concrete Monument	

The bench mark is set in the top of a square concrete monument at the intersection of Bay Boulevard and Spring Street, SE of the Fishing Pier, 69.5

feet (21.2 m) south of pole 6-C-6, 46 feet (14 m) SE of the centerline of Spring Street, 22 feet (7 m) SW of the centerline of Bay Boulevard and 0.5 foot (0.2 m) NE of the NE edge of the sidewalk on the SW side of Bay Boulevard.

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BENCH MARK STAMPING: R 254 1965

MONUMENTATION:	Survey Disk	VM#:
6194		
AGENCY:		<u>PID#:</u>
<u>AG5207</u>		
SETTING CLASSIFICATION:	Concrete Walkway	

The bench mark is set in the top of the end of the east concrete walkway of a concrete bridge over a canal, 225 feet (69 m) north of Anna Maria City Building, 11.5 feet (3.5 m) east of the centerline of the drive, and 1 foot (0.3 m) above the level of the road.

BENCH MARK STAMPING: S 254 1965

MONUMENTATION:	Survey Disk	VM#:
6195		
AGENCY:		<u>PID#:</u>
<u>AG5205</u>		
SETTING CLASSIFICATION:	Concrete Walkway	

The bench mark is set in the top of the SE end of the SW concrete walkway of a concrete bridge over a canal, 300 feet (91 m) NW of the SW end of Anna Maria

City Fishing Pier, 11 feet (3 m) SW of the centerline of Bay Boulevard, and level with the road.

BENCH MARK STAMPING: 6282 B 1976

MONUMENTATION: Survey Disk VM#:
6197
AGENCY: [PID#:](#)
[AG7392](#)
SETTING CLASSIFICATION: Concrete Sea Wall

The bench mark is on the sea wall behind the Anna Maria Yacht Club Sales and Service Building Boat House, 111.8 feet (34.1 m) NW of the centerline of Pine Avenue, 36.9 feet (11.2 m) SW of the SW corner of the boathouse, 11.4 feet (3.5 m) NE of the SW end of the sea wall, and 9 feet (3 m) SW of a boat davit.

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T I D A L D A T U M S

Tidal datums at ANNA MARIA CITY PIER, TAMPA BAY based on:

LENGTH OF SERIES: 3 MONTHS
TIME PERIOD: JUNE-AUGUST 1976
TIDAL EPOCH: 1960-1978
CONTROL TIDE STATION: 8726364 MULLET KEY

Elevations of tidal datums referred to Mean Lower Low Water (MLLW), in FEET:

HIGHEST OBSERVED WATER LEVEL (05/15/1976) = 3.65
MEAN HIGHER HIGH WATER (MHHW) = 2.22
MEAN HIGH WATER (MHW) = 1.96
MEAN TIDE LEVEL (MTL) = 1.15
* NATIONAL GEODETIC VERTICAL DATUM-1929 (NGVD) = 0.85
MEAN LOW WATER (MLW) = 0.34

MEAN LOWER LOW WATER (MLLW) = 0.00
LOWEST OBSERVED WATER LEVEL (05/04/1976) = -0.59

* NGVD reference based on elevations published in Quad 270824, 1973, and NOS

leveling of 1979.

[National Geodetic Vertical Datum \(NGVD 29\)](#)

Bench Mark Elevation Information

In FEET above:

Stamping or Designation	MLLW	MHW
6282 A 1976	3.93	1.97
NO 5 1933	4.04	2.08
R 254 1965	11.96	10.00
S 254 1965	12.94	10.98
6282 B 1976	5.25	3.29

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DEFINITIONS

Mean Sea Level (MSL) is a tidal datum determined over a 19-year National Tidal

Datum Epoch. It pertains to local mean sea level and should not be confused

with the fixed datums of North American Vertical Datum of 1988 (NAVD 88).

NGVD 29 is a fixed datum adopted as a national standard geodetic reference
for

heights but is now considered superseded. NGVD 29 is sometimes referred to as

Sea Level Datum of 1929 or as Mean Sea Level on some early issues of
Geological

Survey Topographic Quads. NGVD 29 was originally derived from a general

adjustment of the first-order leveling networks of the U.S. and Canada after

holding mean sea level observed at 26 long term tide stations as fixed.

Numerous local and wide-spread adjustments have been made since establishment
in

1929. Bench mark elevations relative to NGVD 29 are available from the National

Geodetic Survey (NGS) data base via the World Wide Web at

National Geodetic Survey.

NAVD 88 is a fixed datum derived from a simultaneous, least squares, minimum

constraint adjustment of Canadian/Mexican/United States leveling observations.

Local mean sea level observed at Father Point/Rimouski, Canada was held fixed
as

the single initial constraint. NAVD 88 replaces NGVD 29 as the national

standard geodetic reference for heights. Bench mark elevations relative to

NAVD 88 are available from NGS through the World Wide Web at

National Geodetic Survey.

NGVD 29 and NAVD 88 are fixed geodetic datums whose elevation relationships to

local MSL and other tidal datums may not be consistent from one location to

another.

The Vertical Mark Number (VM#) and PID# shown on the bench mark sheet are unique

identifiers for bench marks in the tidal and geodetic databases,
respectively.

Each bench mark in either database has a single, unique VM# and/or PID# assigned.

Where both VM# and PID# are indicated, both tidal and geodetic elevations are

available for the bench mark listed.

The NAVD 88 elevation is shown on the Elevations of Tidal Datums Table
Referred

to MLLW only when two or more of the bench marks listed have NAVD 88 elevations.

The NAVD 88 elevation relationship shown in the table is derived from an average

of several bench mark elevations relative to tide station datum. As a result
of

this averaging, NAVD 88 bench mark elevations computed indirectly from the tidal

datums elevation table may differ slightly from NAVD 88 elevations listed for

each bench mark in the NGS database.

