



NOAA Real-Time Online Tide Driver

By John Marinuzzi

We recently create a new device driver to read real-time tide values from a given NOAA tide station. It is a pretty straight-forward driver. There are no setup parameters. All settings are specified in the run-time window.

FIGURE 1. Sample Device Window

NOAA Station ID: This is the 7-digit NOAA tide station identifier. The station identifier can be found on the NOAA Tides and Currents website at <https://tidesandcurrents.noaa.gov/>.

Units: English or Metric. This setting will default to the value set for the project geodesy, but can be changed.

Datum: Options:

- Columbia River Datum
- International Great Lakes Datum
- Great Lakes Low Water Datum (Chart Datum)
- Mean Higher High Water
- Mean High Water
- Mean Tide Level
- Mean Sea Level
- Mean Low Water
- Mean Lower Low Water (Default)
- North American Vertical Datum
- Station Datum

Time Zone: Options:

- Greenwich Mean Time
- Local Standard Time
- Local Standard/Local Daylight Time

Because this driver gets its data from the Internet, you will obviously need to be connected to the Internet and clear any firewall or proxy issues that might prevent getting data.

Item	Value
Information	
Station Name	Bridgeport
Lat	41.1758
Lon	-73.1840
Data	
Last Reading	2018-06-27 15:06
Value	3.451
Sigma	0.049
Quality	Preliminary

NOAA Station ID	Datum
8467150	Mean Lower Low Water
Units	Time Zone
English	Local Standard/Local Dayl
☐ Invert Tide To HYPACK	