

Tide Gauge Wed 06 Nov 2013 21:09:33

Tide Height (m) 4.44

Water Temp °C 8.7

TideReach

Our recently developed Windows™ application TideReach, stores tide-gauge data and uses the data to create great looking graphs and text displays on the web or on your network.

Operating continuously and unobtrusively, TideReach carries out the following background tasks:-

- Collects tide-gauge and weather station data
- Processes data with offset and slope correction
- Stores data in local database
- Displays tidal height and rate-of-rise
- Supports multiple displays over LAN
- Creates graphs on web for smartphones, PCs
- Predicts Surges with optional SP Module

Details



Gathering data from a tide-gauge, TideReach uses your in-house facilities to upload graphs to your hosted web-site. See Fig 1. Our simple and efficient solution lets you retain control over your data, resources and displays - without you losing control to a centralizing 3rd part cloud-based service.

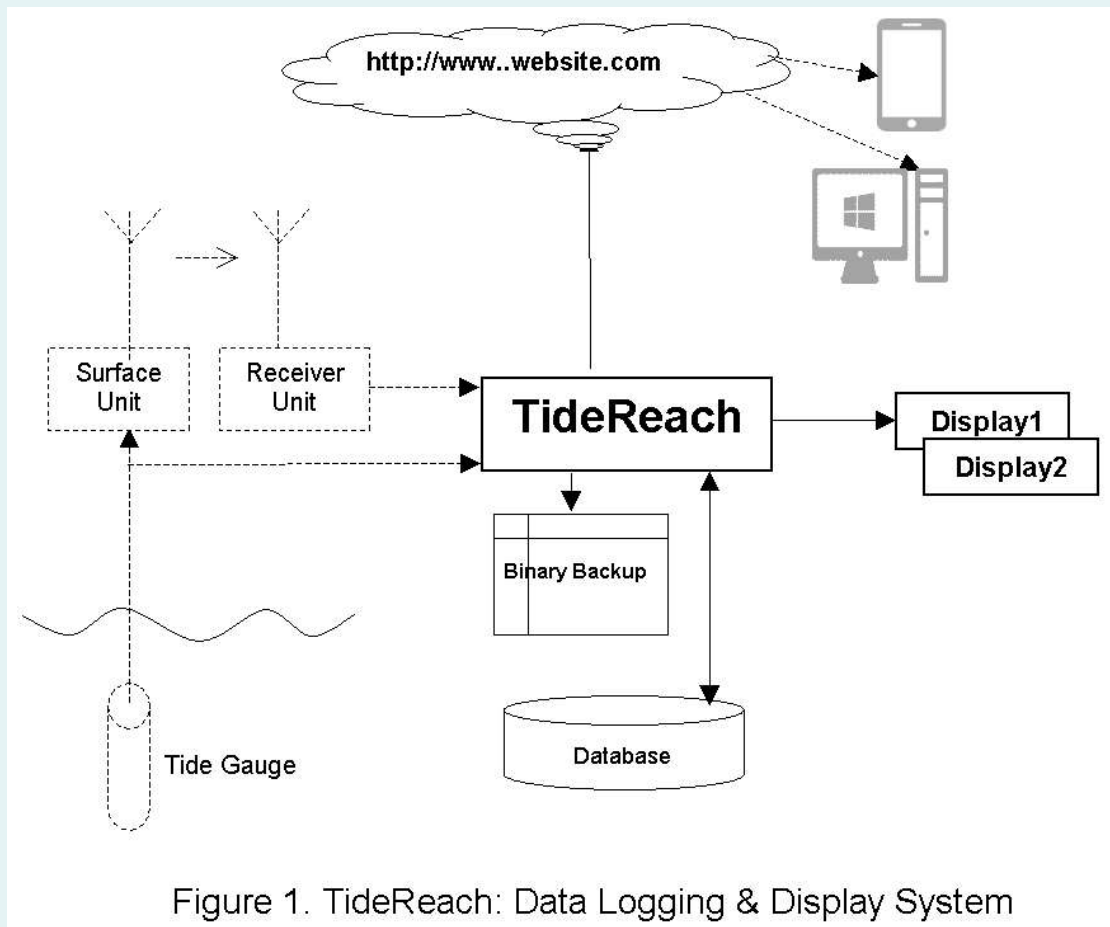


Figure 1. TideReach: Data Logging & Display System

The TideReach configuration facility provides you with a highly customised display, so you can create your own screen layout - locally or on the web.

Multiple copies of the TideReach may be deployed over a network so that each module can be used as a repeater display.

TideReach offers compatibility with many different types of tide-gauges and met-stations, with supported protocols including NMEA0183, TCP/IP, RS422 and MODBUS.

Communicating seamlessly over wireless sections of a local area network, TideReach can access both your tide-gauge data and provide repeater displays via IEEE 802.11.

TideReach archives the data locally and supports most commercial databases using Microsoft Database Connection strings.

Serving as a combined data logger, LAN display, and web upload system - TideReach incorporates comprehensive error checking and reliably archives your information and displays it to your users.

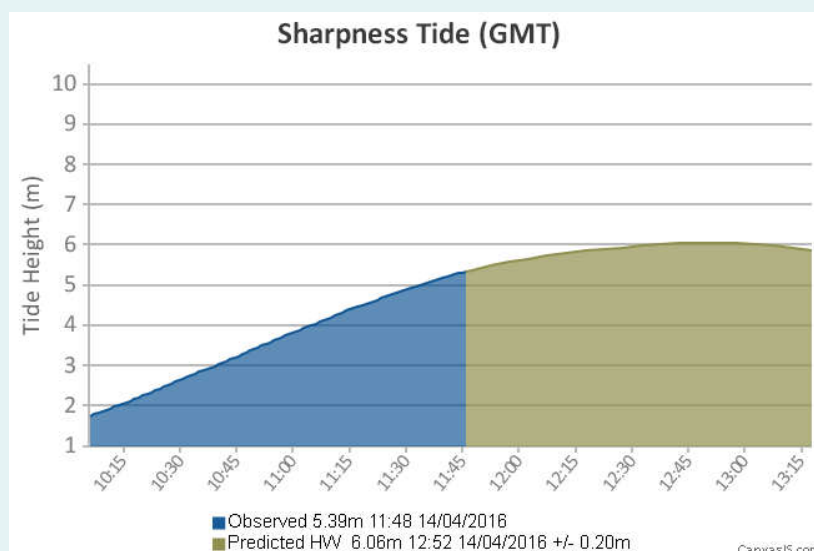
Surge Predictor Module

Tidal surges can disrupt normal vessel operations, especially in estuarine sea-ports which can suffer from significant surge activity.

Our Surge Predictor Module SP is designed for such ports - handling surge prediction in a totally new way. TideReachSP predicts tidal surges in real-time, helping in the management of vessel operations.

Its main features are:

- it predicts height and time of tidal surges
- it learns from past tides
- it inherently takes into account meteorological effects



With TideReachSP predictions are possible up to 2 hours before high water, helping you to decide in advance whether a vessel can safely approach and dock.

TideReachSP operates by examining the shape and timing of the rising tidal curve, eliminating the guesswork regarding the expected time and height of high water.

Specification

Input

Ports: Up to 4 Hardware RS232/485 Ports / Virtual Ethernet IP:Ports
Delimited ASCII (NMEA style) input
Field allocation to variables: Any
MODBUS

Processing

Offset and Slope: ($y = m x + c$) on any Input Channel
Rate of Rise: Haar Wavelet
Average: Simple boxcar on any input channel
Weather Station: Supports meteorological parameters

Display

Fully Configurable text windows on LAN connected machines.
Wind Speed: Display in metric / imperial / nautical
Wind Direction: Degrees / Cardinals N NNE NE ENE etc

Database

Supports standard Microsoft Database Connection Strings.
Write via table/column ID

http://www...

Writes any variable to a webpage as text or graphical plot
Client-Side active readout cursor.
Local plot viewer.
Upload: SFTP/FTP: Support for AJAX / SSI / whole page uploads.

Compatibility

Microsoft XP / Windows 7 / 8 / 10

Documentation

User Manuals
Interactive Help File

System Requirements

Computer: 4Ghz Processor (3M Cache) 4GB RAM
Operating System: Microsoft Windows 32/64 Versions 7 , 8 , 10

Contact

Local Agent

