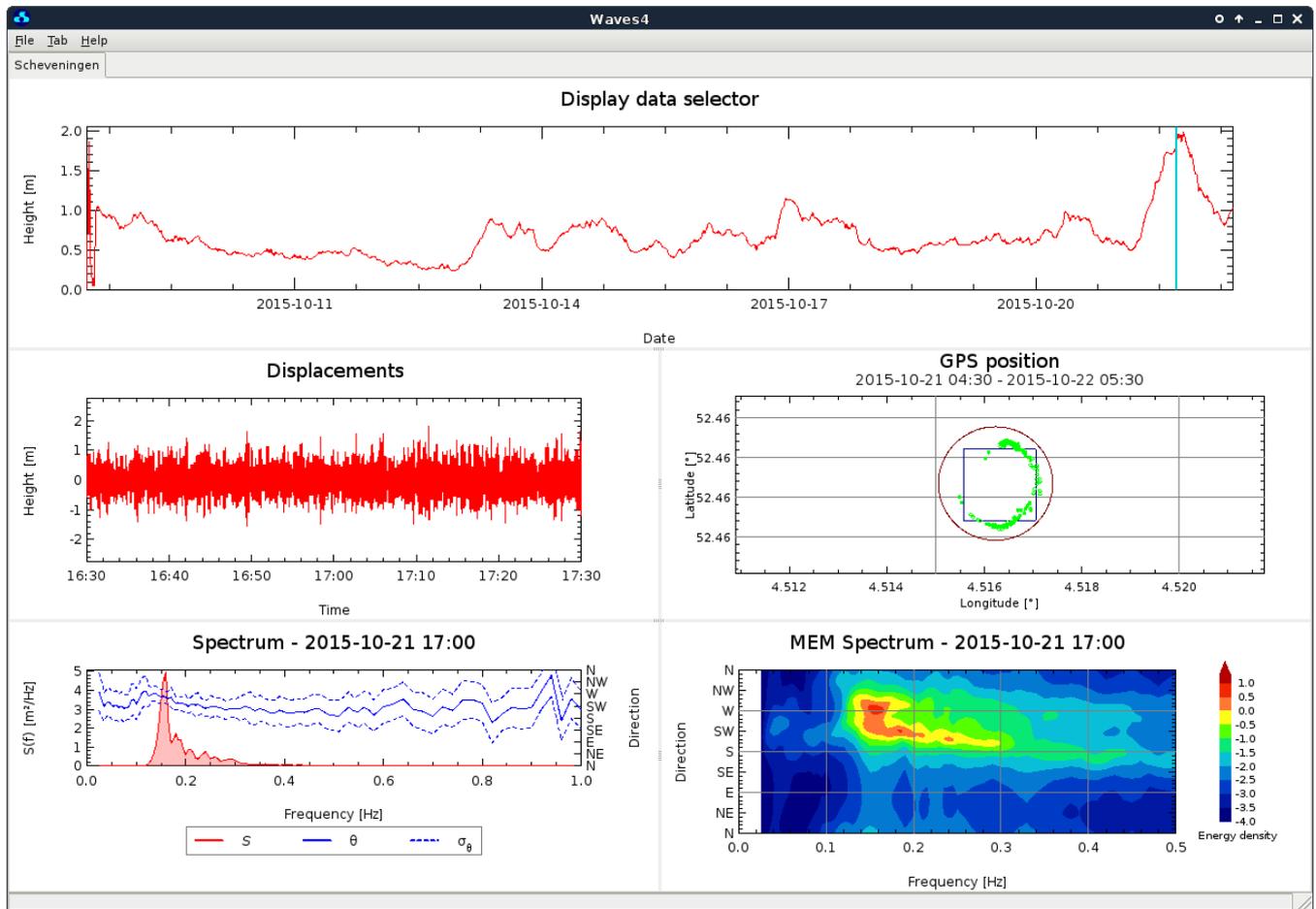




# Waves4

Datawell - Oceanographic Instruments



## Monitoring Software Waves4

The software for the analysis, processing, and displaying of wave data from the Datawell Waverider buoys.

### Introduction

The Waves4 suite contains a set of programs for data acquisition, processing and presentation of the Datawell Waverider buoys, DWR MkIII and DWR4 /ACM. It provides detailed 2D plots of wave data for analysis and research. It also provides overviews of the latest measurements in a list overview. Real-time data is displayed. Parameters are stored and made available for post-processing.

### Data acquisition: buoyd

The Waves4 suite contains a data acquisition background process (Windows: service, Linux: daemon) named buoyd, that is able to receive wave data over all prevailing communication links: over HF from a RX-C receiver, over the internet (iBuoy via Iridium or GPRS), over e-mail from Iridium SBD (Short Burst Data) or from Argos (DWR4 /ACM only), and over GSM (MkIII only).

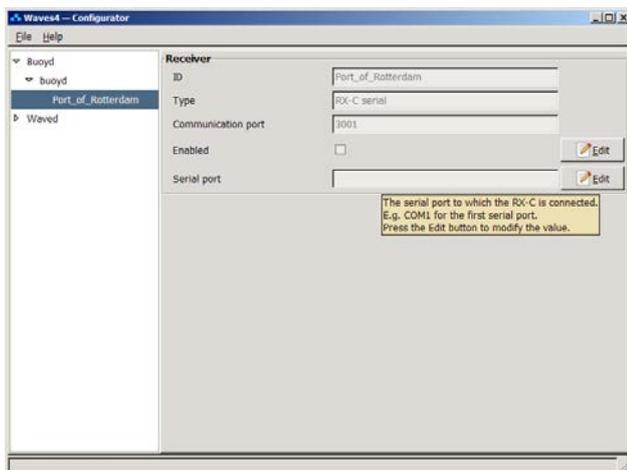


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## Data processing: waved

The buoyd background process sends the received data to the processing background process, named waved. It stores, decodes and processes the received data from multiple buoyd instances. The decoded data is stored in an internal cache.



Both background processes are fully configurable by the Waves4 Configurator.

## Data presentation: Waves4

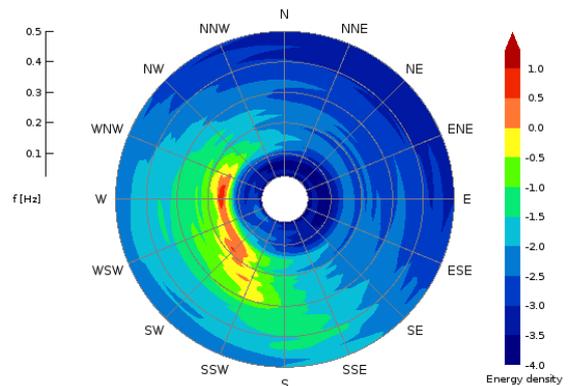
Presentation of the wave data is taken care of by the Waves4 program itself. This program receives the data from the waved module and displays it. Due to the cache in waved it is possible to immediately view historical data along with current data. The data is presented in a tabular interface, where every tab sheet contains one or more widgets.

Every widget displays a selection of buoy data, either as a parameter list or as a trend plot.

## System requirements

Waves4 is available for Windows 7, 8 and 10, and for Linux distributions Debian Jessie and Stretch, and Ubuntu Trusty Tahr and Xenial Xerus. (For other Linux distributions contact our sales department).

MEM Spectrum - 2015-10-21 17:00



The directional wave spectrum can be plotted in various ways, one being the polar contour plot.

## Sea-state monitoring

The Waves4 program can be extended with the monitoring module, intended to serve users involved in operational situations (port authorities, offshore companies).

