

## EVOLUTION 3.0 – January-2022

In 2020 and 2021, significant improvements were added to the system. Many of these were enhancements proposed by users. Other new functions are detailed below.

### 1 C-MAP MAX Cartography

EVOLUTION is now compatible with the C-MAP MAX charts format.

In 2017, the C-MAP firm stopped publishing and selling nautical charts in the traditional NT+ format. Today they only continued to market charts in the MAX format.

EVO3 is essential for buying up-to-date cartography. Of course, it continues to be compatible with nautical charts in NT+ format that are still active on the computer.

### 2 Full compatibility with NMEA 2000

EVOLUTION 3 connects to the NMEA 2000 network to receive and send data in installations with state-of-the-art instrumentation.

On sailboats with instruments lacking advanced calibrations (i.e., B&G Triton, Garmin, Raymarine), EVOLUTION 3 gets data directly from the sensors, corrects it to high precision, and delivers it back to the rest of the instrumentation.

The calibrations are the same as in the top-of-the-line processors for racing sailboats—for example, the B&G H5000 Performance.

- TWA and TWS correction tables.
- Slide speed linearity correction table.
- Correction of AWA and AWS due to the movement at the top of the mast and list.
- Correction of residual compass deviations.

EVOLUTION always delivers precise performance and tactical data from the boat's specific polar curves. This information is viewed on any instrument display or mobile device on deck.

In other words, EVOLUTION 3 elevates simple cruising instrumentation to an advanced race information system for a fraction of the cost.

### 3 More and Better Forecasts

For forecasts originating from the GFS model, it is now possible to display theoretical radar reflectivity (dBZ), which indicates the position and forecast severity of frontal and convective storms.

EVOLUTION 3 now provides free access to new ARPEGE (Meteo France) and ICON and GWAM (Deutscher Wetterdienst, Germany) global forecasts, plus a wide variety of regional weather, wave, and current models.

As always, you can access, by subscription, the forecasts of PredictWind and its service for obtaining optimal routes and ocean currents forecasts.

## 4 Addition Race Information Registry

EVOLUTION 3 allows you to keep a record of each race, training, or test carried out by the team. In each case, it is possible to state, for a given moment, the crew, sails, configuration of the boat, or notes.

These logs are then used as an index for automatic data recordings.

The crew, sails, and configurations can also add to the analysis in different sailing conditions.

## 5 Video, Images, and Audio

EVOLUTION allows you to include images, videos, and audio and synchronize them with data recordings (data logs).

Using this feature, you can visualize sail trim and crew performance against numeric data.

## 6 Competitors Tracking

Some regatta organizers may offer boat tracking. In such cases, with EVOLUTION 3, you can download the position of your competitors. This option is available if the boat has access to the internet through GSM or satellite communications (i.e., Iridium Go).

## 7 Waypoints and Racecourse Exchange in GPX Format

Now you can import and export waypoints using the popular .gpx file format. You can also import routes from a chart-plotter. This way, exchanging data with other computers or sites on the Internet is accessible.

## 8 Activation via Internet

EVOLUTION 3 abandons using the USB key (dongle) for its operation on board. Its activation is straightforward and only requires exchanging a couple of emails. The software license is for a single onboard computer.

Yet, you don't need this activation to download forecasts, review data recordings, create race courses, or manage waypoints.

This change also fixes the problem that the dongle is not recognized when waking up from a tablet using RDP. In these cases, it was necessary to launch EVOLUTION on the PC or notebook below deck.

## 9 Optimal Routing using PredictWind Offshore

EVOLUTION 3 integrates the optimal routes offered by the PredictWind Offshore system. It is easy to create a racecourse from an optimal route. You can use Predictwind Offshore either through home Internet, GSM, or Iridium Go on board.

### **EVOLUTION 2.0 – 2.12 (2005 to 2021)**

EVOLUTION 2 includes the development and refinement of all base system functions of the system over the past 15 years.

Technical support and updates for EVOLUTION 2 were discontinued at the end of 2021 with the release of EVOLUTION 3.