

# ADRENA

NAVIGATION SOFTWARE  
to serve your performance

## Catalogue





## Our Team

With an accessible and highly responsive team, we place huge importance on customer satisfaction.

## Our Know How

From first inspiration to ultimate innovation.

## Our Target

The art of success is to know how to surround the bests.

**ADRENA is a software editor company specialised in racing navigation software and performance analysis tools.**

# About ADRENA

Since 2003, the company has raised in rhythm with the technological improvements and its users' needs and has become the world's reference for Offshore racing.

In the forefront in terms of development and innovation, the navigation software remain open and easy to use for all racers (amateur or professional) that are looking for navigation performance optimization.

ADRENA is next to the sailors along their navigations (from cruise to training and race preparation) providing them with fitted software tools : navigation, routing, performance analysis...

## Adrena for every occasion according to one's navigation.

Thanks to its 3 ranges (First, Standard and Pro), ADRENA provides a complete offer, progressive and that fits any racing level to satisfy as well the amateur as the professional team on international projects.

### First Range, Cruising and Occasional Racing :



The First Range is aimed at cruising enthusiasts and navigators who like to take part in occasional race. Coming from a simpler version of the Standard range, it offers the ADRENA's expertise for racing in an easy to use version, specially for routing function. In addition to traditional navigation functions, AdrenaFirst includes a racing module and the tool creates polar diagrams of boatspeed.



### Standard Range, Navigation and Regular Racing :

The Standard Range is aimed at navigators and keen racers who want access to powerful research tools. This is our reference software; it offers multiple features for greater precision and highly accurate routing. In racing, Adrena makes the decision making process much easier.



### Pro Range, Navigation and High-Level Racing :



The Pro Range is aimed at professional navigators looking for a complete solution offering the highest and most detailed performance. Whether you are racing around the world or inshore, the additional functions of the Pro version are here to answer every possible requirement : navigation preparation, performance analysis and optimization.

Description	FREE		Optima		FIRST		STANDARD		PRO	
	Adrena Free	Optima	Optima Pro	Adrena First	First Offshore	Adrena	Adrena Offshore	Adrena Pro	Pro Offshore	
<b>Navigation</b>										
Touch screen mode										
Calibration of instruments (log, compass and windvane)										
Waypoint & route management										
Global tide module										
Electronic vector charts (C-Map MAX) or raster maps (Maptech, BSB)	Option			Option	Option	Option	Option	Option	Option	Option
Reading & Display of GRIBs										
Direct interface UGRIB, Navimail, Predictwind, Tidetech										
Meteogram										
Logbook (position, wind, speed and observations)										
Tide Charts SHOM, Proudman, Winning Tides				Option	Option	Option	Option	Option	Option	Option
Anti-collision system AIS										
Alarms (MOB, mooring, arrival on coast,...)										
Compatibility with GPX files (waypoints, courses and tracks)										
Roadbook with image overlay										
Datagrams: data evolution along the route (current, saillect,...)										
Integration of external current atlas										
<b>Regatta</b>										
Competitor monitoring										
Calculate recovered time IRC/HN										
Management of the start, windward/leeward and coastal courses										
Calculation and laylines display										
Integration of the current with laylines and time to the marks										
Safe Starting Area										
Calculation of tuning speed and acceleration of the boat										
time to the line including manoeuvre loss										
Average of all data										
Management of a leeward gate										
Specific polars : departure, navigation, performance										
Adjustment of polars while sailing										
<b>Routing</b>										
Calculation of the optimum route while automatically avoiding coastlines										
Routing in 2 clicks										
Dual Routing, sailing and motoring										
Integration of the current into routing calculations										
Routing of competitors										
Min & max wind setting in the routings										
Summary table of the routing										
Display of wind conditions encountered throughout the course										
Calculating a route from a routing track										
Simulation of several routings										
Save/restorer a routing										
Entry of multiple GRIB files to calculate routings										
Pivot positioning on isochrones										
Routing profiles : scanning of variables										
Calculation of inverse isochrones & IsoRoutes										
Statistics on the routes : wind, sails										
Differential colouring of the route based on criteria										
Video creation on routings										
Micro-routing on laylines : "best side of the navigation square"										
Multiple routings on statistic Grib and on ensemble prediction										
Managing performance of multi-core CPU										
<b>Performance Analysis</b>										
Automatic calculation of speed polars										
Saillect® import and reading (sail usage chart)										
Performance analysis of the boat (calculating VMG and target boatspeed)										
Graphs of data: histo -graph										
Replay function										
Multiple Replay (several boats)										
Boat's configuration management (sails, keel, ballast)										
Track Analysis: Segment, speed-test, statistics										
Saillect Creation and modification										
Calculation of polars by configuration										
Polar comparison										
Graphic and numerical modification of polars										
Table of the best configurations										
TrimBook : trimming notes										
Integration of external data into the track										
Analysis of loss when tacking gybing and during manoeuvre										

## Optima

### Creation of accurate speed polars of a sailboat.

This software meets the needs of the navigators looking for performance polar creation. It is included in all ADRENA software (First, Standard and Pro).

#### Logging the data

It pulls in all the data into a central point and works independently. Although it is possible to specify the sea state and other key values.

#### Calculation of polars

It records the data and calculates the speed polars, whilst discarding unreliable values and filtering any anomalies that might skew the quality data.

This creates a performance curve for the boat which is proven and reliable.

#### Sailect® reading, sail usage chart

Once integrated, Sailect® files allow you to view the correct range of optimum use for each of the sails.

The graphic display continuously indicates the suitability of the set of sails with the prevailing wind conditions.

#### Use of polar and Sailect

In a navigation software, the polar activation is mandatory for laylines and routing calculation.

The choice of Sailect appear in the tracking path and is displayed in the table of legs.



## OptimaPro

### A thorough analysis of your data.

It has advanced features in many areas, for example managing your Sailect, data collection and analysis, course management, calculating polars. It enables to precise the records for a deeper performance study.

It is included in the Pro Range.

#### Optimizing performance in different scenarios

It is possible to make recordings in a given configuration of navigation: sails in a particular position, position of the appendages, how full are the ballast tanks, the type of crew... It can highlight each navigational scenario based on a calculation of polars according to a range of variables.

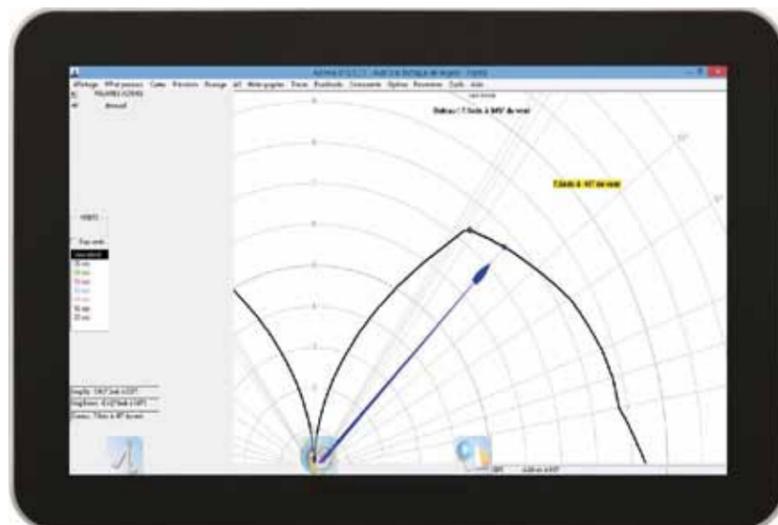
The goal is to replicate the best configuration, its effectiveness or the best performance to refine the analysis.

You can also compare several polars and modify them graphically.

#### Route analysis, advanced management

The speed test and segments enable to analyze a particular section of a track in fine detail. The speed test function makes it possible to quickly compare two sections of a track. It is possible to divide your tracks into separate segments as you want and place them in a Collect file. The table of segments will help to compare and analyse these data.

Management options for the display of a track (colour, filter thickness, management of course boundaries) enables you to highlight a data set both for on-shore analysis and for making a decision while sailing.



« We also use a lot Optima for all performance validation of the boat : polars, sail choice... »

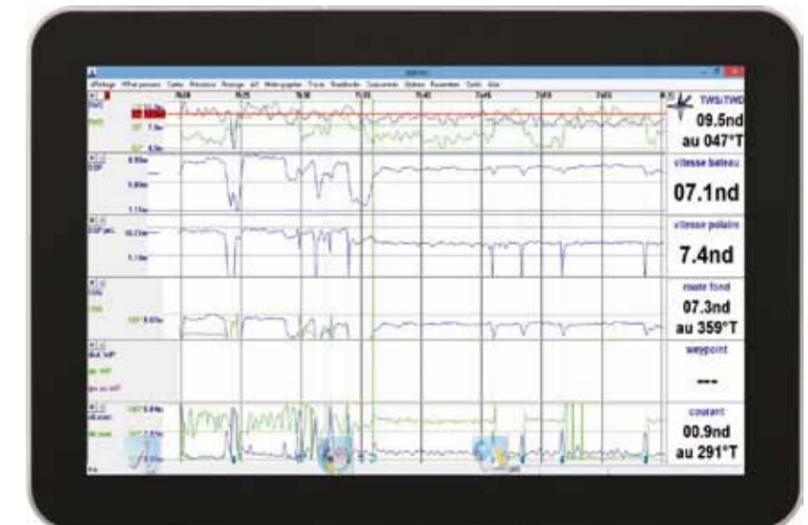
Thierry Douillard,  
member of routing cell and performer on board team SODEBO

#### KEY FEATURES

- Touch screen mode
- Calibration of instruments (log, compass and windvane)
- Data Acquisition
- Calculation of speed polars
- Sailect® import and reading (sail usage chart)
- Performance analysis of the boat: Calculating VMG and target boatspeed, best performance in 24h.

#### KEY FEATURES

- Optima functions
- Histo-graphs
- Multi-replay (several boats)
- Real-time monitoring of the boat
- Track analysis: segment, speed-test, statistics
- Sailect creation and modification
- Calculation of polars by configuration
- Polar comparison
- Graphic and numerical modification of polars
- Table of the best configurations
- TrimBook : trimming notes
- Integration of external data into the track
- Analysis of the manoeuvre loss.



« On Banque Populaire, we used OptimaPro to draw the boat's Sailect, it is the sail chart ! We also use it to compare the speed... »

Armel Le Cléac'h, skipper of IMOCA 60' Banque Populaire

## AdrenaFirst

### Good navigation in simple form.

AdrenaFirst is a safe, comprehensive and effective solution for cruising navigation and for the basics of racing. Used straight out of the box with its default settings, AdrenaFirst is a «ready to sail» package. Once installed, just connect your USB dongle and enter the ADRENA world!

#### For safe cruising

It is capable of managing waypoints, creating routes, and automatically calculating the distance between two or more points.

Once the route has been plotted into the system, the software automatically provides the information necessary for the smooth running of the boat and staying on track.

It also offers numerous functions linked to safety as MOB, AIS or alarms including 3 specific safety alarms (AIS, arrival on coast, mooring).

#### For regatta, a tool for strong decision making!

It offers all the features for planning the perfect start, whether for an offshore race or a windward/leeward course.

Once you're racing, there's no need for you or a team mate to update the software, it automatically switches to the current part of the race and provides all the relevant information exactly when you need it.

What's more, if you're a handicap racer, it actually lets you know in real time how you are performing on corrected time!



## AdrenaFirst Offshore

### The best for everyone.

A powerful tool for route forecasting based on weather and boatspeed polars. It provides powerful information for offshore sailing.

Based on Adrena's latest innovations in offshore navigation software and on isochrones calculations, it is high precision!

#### Calculating a routing

It calculates the best route in terms of speed and / or safety. The route is calculated using the following parameters: date and place of departure, destination, boat's speed polar and wind conditions (based on grib-file weather forecasting).

The table of legs provides a summary table of navigation throughout the routing. It shows general information on routing, such as the estimated time of arrival (ETA), time travelled, distance to destination, and at every stage it plots the course to steer as well as the conexpected conditions on the route.

#### Dual Routing, sailing and motoring

It is the opportunity to combine two modes of propulsion in a routing calculation. It offers the best way forward with periods of sailing and motoring, depending on the weather conditions. It also provides an estimate of fuel consumption.

Dual Routing revolutionizes cruising sailing by providing the skipper with more precise information on their routing options. The benefits are greater safety, comfort and performance.



« AdrenaFirst came sailing with us displaying for each leg heading, distance in miles to the arrival as well as our estimated time arrival. The tool is really easy to use! »

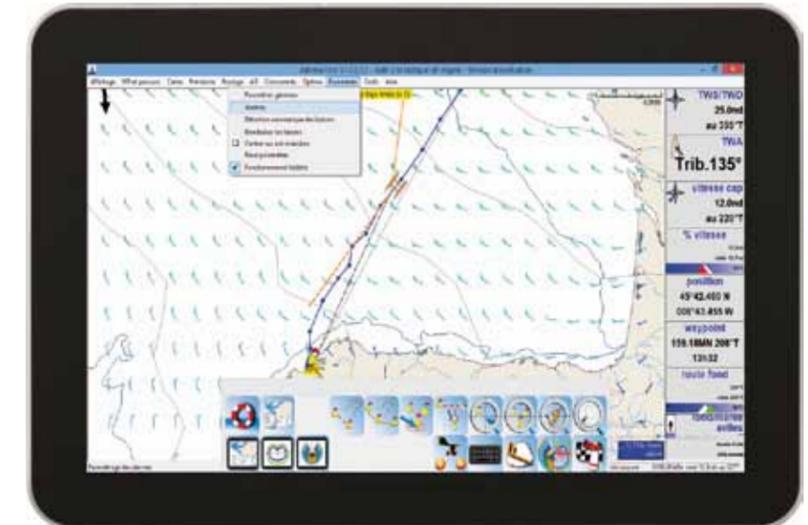
Francine and Emmanuel on board Coentrin

#### KEY FEATURES

- **Optima functions** : creation of accurate speed polars of a sailboat.
- **Touch screen mode**
- Navigation: Waypoint, routes
- Global tide module
- Loading and displaying GRIB weather files
- Meteogram
- Logbook : position, wind, speed and observations
- MOB and AIS functions
- Safety alarms : MOB, AIS, arrival on coast, mooring
- Racing module : starting, windward leeward and Coastal
- Competitor monitoring
- Calculate recovered time IRC/HN
- Laylines calculation and display
- Integration of tide into time calculations.

#### KEY FEATURES

- **AdrenaFirst functions**
- Calculation of optimum route while automatically avoiding coastlines
- Routing in 2 clicks: one to launch the start, one to the finish... Let it go, Adrena handles all the route planning!
- Dual Routing, sailing and motoring
- Integration of the current into routing calculations
- Routing of competitors
- Safety : wind speed limit in routings
- Summary table of the routing
- Display of wind conditions encountered throughout the route.



« We use it for cruising. It is top to choose best time to leave, to estimate time of navigation and visualise the weather forecast. It even tells when will have to switch to engine propulsion! »

Antoine Goupin on board Mareva IV

## Adrena

### A powerful tool designed specifically for racing.

Besides the standard functions for navigation and mapping, it is an excellent tool for tactical decision making (capable of calculating more than 100 data).

#### Race Management

During the starting sequence, the map centers itself on the start line and draws in the laylines, showing a graphic representation of the «safe starting area» as well as the specific numerical data.

During the race, the screen changes and focuses on the current waypoint and its laylines and displays the dedicated numerical data.

#### RoadBook

When preparing for the trip, the navigator locates and annotates specific areas on the map: tidal eddies, coastal effects... those areas can be enriched with images like synoptic winds or currents by overlaying on chart.

#### Monitoring your competitors

It allows you to track and analyse your competitors' strategies: input of their positions, details of the competitor (average speed and direction...), replay of the positions of your competitors, their routing (*Adrena Offshore*), ranking.

#### Alarms

More than 100 data can be set : deviation from course, target speed, depth, wind speed... When they are activated, they emit a visual and audio signal and can even trigger an external program.

#### Replay, debriefing tool

It is possible to replay a race to analyse the different phases, your tactical and strategic decisions, and changes in weather conditions. All information (unit and GPS) are available and all calculations of Adrena software.



## Adrena Offshore

### Flagship configuration of ADRENA.

It calculates the best route for both inshore and offshore racing and it enables you to hone your race strategy in ways that are unmatched by another product on the market. It provides a useful tool for navigators with an overview of optimisation and analysis of the course.

#### Calculating the routing

The route is calculated from the chosen parameters (start, finish, polars, wind, current and hazards) while automatically avoiding coastlines.

#### Routing profiles

Thanks to the variables scanning (wind, polar, GRIB shift or departure), it is possible to launch several successive routings. It enables to check the influence of the variable and the reliability of the route plan.

#### Inverse isochrones

They allow to visualize the sensitivity of the ETA according to a route shift and also to plot the competitors time to arrival.

Parallel inverse isochrones will indicate that a smooth heading modification will not influence the route duration.

#### IsoRoutes

They compare the isochrones and the inverse isochrones and colour a corridor that enables to get to destination with a minimum delay regarding the optimal route.

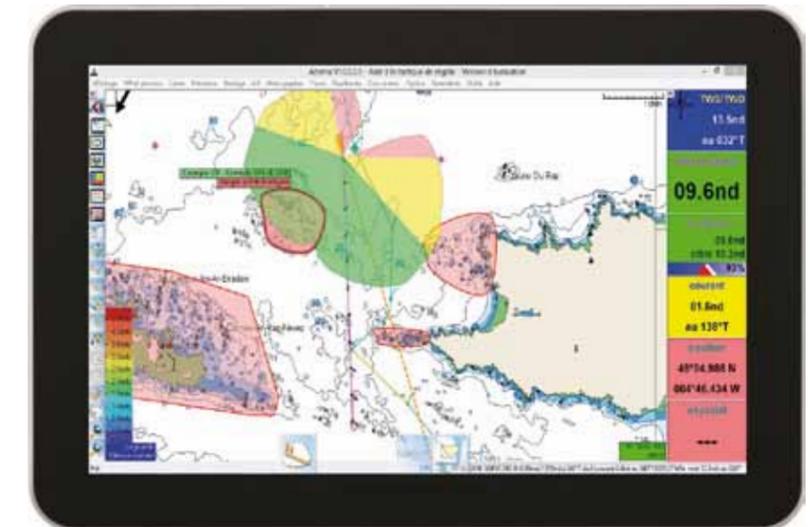
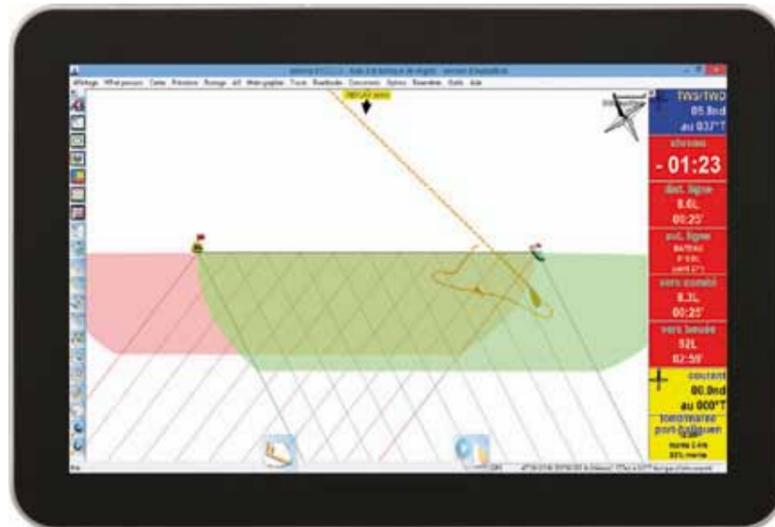
This delay can be set.

#### KEY FEATURES

- AdrenaFirst & Optima functions
- Touch screen mode
- Navigation: Waypoint, routes
- Loading and displaying GRIB weather files
- Meteogram
- Alarm function
- Compatibility with GPX files (waypoints, courses and tracks)
- Roadbook with image overlay
- Datagrams : evolution of some data along the route
- Management of the start, windward/leeward and coastal courses
- Monitoring of competitors
- Integration of the current with laylines and time to the marks
- Graphs of data: histo –graph
- Function replay .

#### KEY FEATURES

- Adrena functions
- Calculation of the optimum route
- Routing in 2 clicks
- Dual Routing, sailing and motoring
- Integration of the current
- Routing of competitors
- Adjustable table of legs
- Display of wind conditions encountered (post-it & barbules)
- Calculating a route from a routing track
- Simulation of routing
- Entry of multiple GRIB files to calculate routings
- Pivot positioning on isochrones to refine an existing route
- Scanning of variables
- Inverse isochrones & IsoRoutes
- Statistics (wind, sails)
- Differential colouring of the route.



« It is a very complete software including a performance feature that answers the needs of the performer and of the sailor that want to have a powerful tool to manage their navigations. »

Gilles Chiorri, race director of Solitaire du Figaro – Eric Bompard Cachimire 2012

## AdrenaPro

### Perfect configuration for pro inshore racing.

Essential for enhancing your performance in high-level racing, it is equipped with extra features compared to Standard Range and with all the OptimaPro functions to offer sophisticated tools for route analysis, creating Sailect and speed polars.

#### For regatta

It calculates different assumptions to reach the line: direct, tacking, gybing, following a layline. The rotation and acceleration timing are integrated in the time to the line and laylines calculations.

A windward/leeward course can be set with different options: gate, position of the start, number of turns...

#### Polars

It manages 3 polars : departure, navigation and performance.

They can be adjusted during the race. If you consider to be at right target speed, the software can calculate the percentage to apply to correct the polar regarding the current boat's speed.

#### Multimedia

It is possible to synchronise multimedia content (photos, videos and sounds) in real time. They can be used to illustrate the tracks, Roadbook, Sailect or Trimbook for even more detailed records of your sailing.

It is also possible to integrate images directly on the chart.

#### Tracks and tracks analysis

Thanks to OptimaPro integration, all the tracks analysis functions are available.

You can also analyse the loss when tacking, gybing, manoeuvring, integrate and synchronize external data into the tracks (sensors, records)...

## AdrenaPro Offshore

### All the know-how of ADRENA.

The most comprehensive version we offer, AdrenaPro Offshore will meet the needs of a professional team on international projects both during the pre-season work-up of a boat and also during the races themselves - for planning starting strategy, course management and course planning.

#### Video creation on routings

This function is useful in sailing mode, as well as when simulating a route, and during the trainings.

In routings, the video enables to study in details the expected boat's progression in the weather systems, to replay step to step, forward and backwards...

For the trainings, it is a main pedagogical tool that enables to display and record the most interesting strategical situations.

#### Managing performance of multi-core CPU

ADRENA is managing the latest technologies by using the power of the new multicores CPU to accelerate the routing calculations.

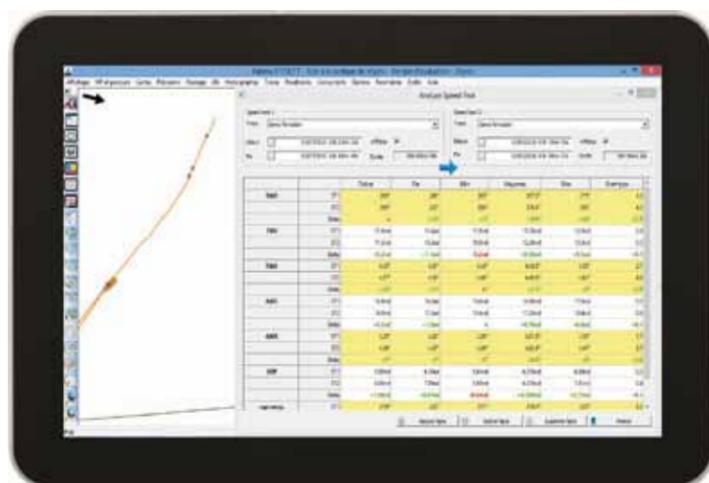
#### Communication with the shore

All data received by the navigation unit could be transmitted to the shore.

Thus a router knows the current sailing conditions and the boat can be compared to GRIB files to readjust the route and send a route from the shore to the boat.

#### Micro-routing on laylines

It enables to know, on a leeward or a windward leg, what is the best side of the square and the time difference expected between the route « max on right side » and the one « max on left side ».



« As a navigator, it is a big research job to gather together all the pieces that will help to elaborate strategies at sea: having the roadbooks with the currents or the wind expectation... »

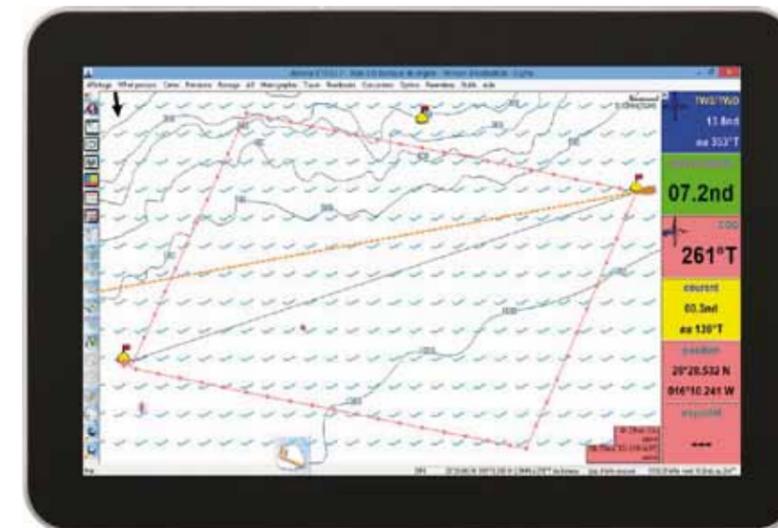
Jean-Luc Nelias, navigator on board Groupama 4, Volvo Ocean Race winner 2011-2012

#### KEY FEATURES

- Adrena & OptimaPro functions
- Touch screen mode
- Integration of external current atlas
- Calculation of tuning speed and acceleration of the boat
- Time to the line taking into account all manoeuvre
- Calculation of average wind
- Management of a leeward gate
- Differentiation between polar and polar performance
- Adjustment of polars while sailing
- External data integration in the tracks
- Track analyse for loss when tacking and gybing
- Multiple replay
- Distance between several points : time according to polar and TWA.

#### KEY FEATURES

- AdrenaPro & Adrena Offshore functions
- Video creation on routings
- Micro-routing on laylines : « best side of the race square »
- Managing performance of multi-core CPU
- Multiple routings on statistic Grib
- Multiple routings on ensemble prediction.



« I use intensely the function « create a video » in my weather and strategic roadbooks to build a data base that will enable the competitors to compare the real situations to the reference situations with known characteristics. »

Jean-Yves Bernot, meteorologist, navigator, routeur

## Tablets

### Use on tablets

All the ADRENA navigation software can be directly installed on tablet PC running Windows system (except Windows 8 RT) and be used with touch screen mode.

### Configuration

Those new touch screen tablets are real pcs, light, powerful, with enough battery to last a day of use. A simple wireless installation is needed to connect the tablet to the instruments on board.

Offering complete ports and connectivity, they guarantee a varied use and are compatible with most of the devices on the market.

### User interface

The adaptation of ADRENA's user interface in touch screen mode enable to use your navigation software in the best conditions, in the cockpit or at the chart table.

The menus, chart interface, the size and shape of the windows have been designed for an optimal touch screen experience.



Like this, well protected in a waterproof bag, your computer can easily be carried from the boat to home or brought to the harbourmaster office to download the next weather prediction in ADRENA.



## Remote screen

### Use as a remote screen

An Ipad or an Android tablet can be used as a remote screen with an ADRENA software running on a PC.

### Configuration

Today, you can find on the market some WIFI touch screens that enables to duplicate your PC screen and this way, manage your computer by remote control.

To do so, you only need to download a remote control software on your tablet and to connect it to the computer through a WIFI connection.

### User interface

For those who already use a tablet as a remote screen, the touch screen mode also improve the use of all ADRENA software on other systems that windows.



### Criteria to take into account to choose your tablet :

- Operating system
- Connectivity
- Day light visibility
- Battery life
- Screen size
- Robustness
- Waterproof.

## « All the ADRENA functions at the finger »

You can access directly and easily to all the data computed by the software wherever you are on the boat.

# Vector cartography

ADRENA software can read vector maps (C-Map MAX) and raster maps (Maptech and BSB). The program is delivered with a global coastlines map.

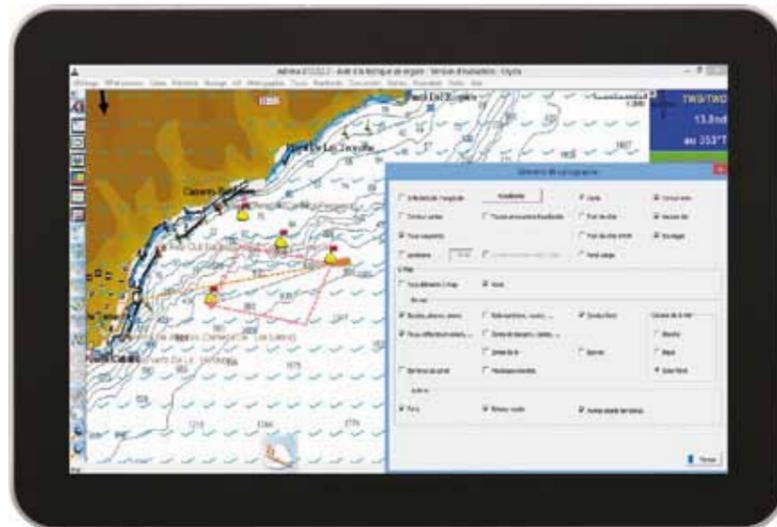
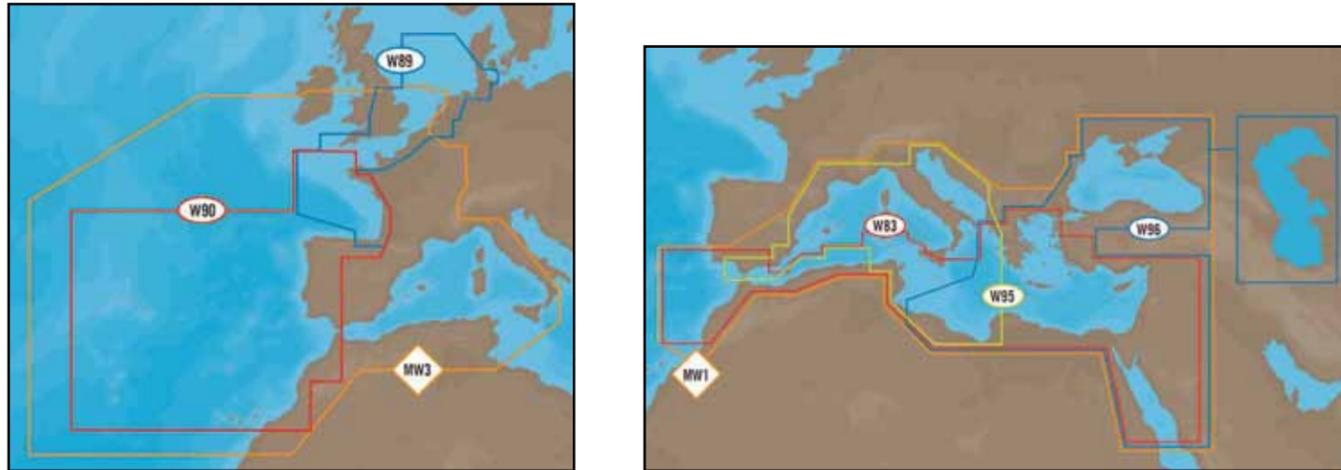
## Vector cartography CMap



The C-Map MAX charts are electronic vector charts with worldwide coverage.

The maps are automatically loaded on to the screen using the best chart available and with an accuracy level adjusted to the current zoom level. The details appear as and when it zooms in on an area.

The C-Map charts are unlocked via the Adrena dongle, which enables you to use the charts on any PC that you plug the dongle into.



# Raster cartography

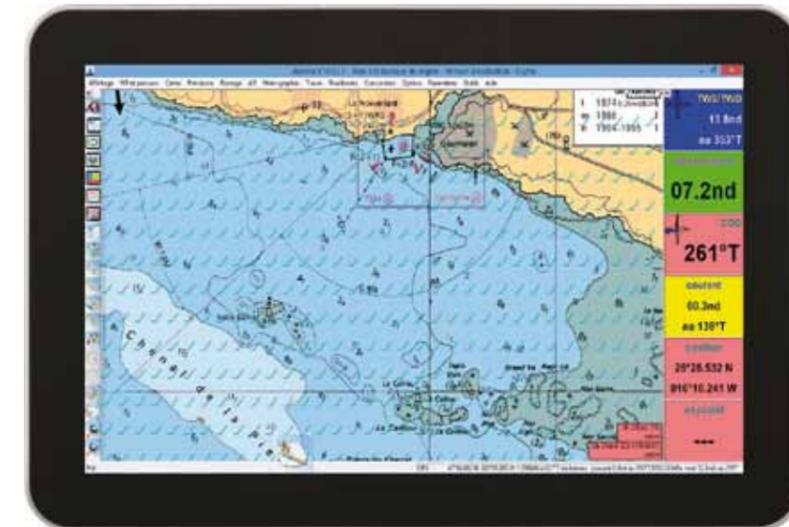
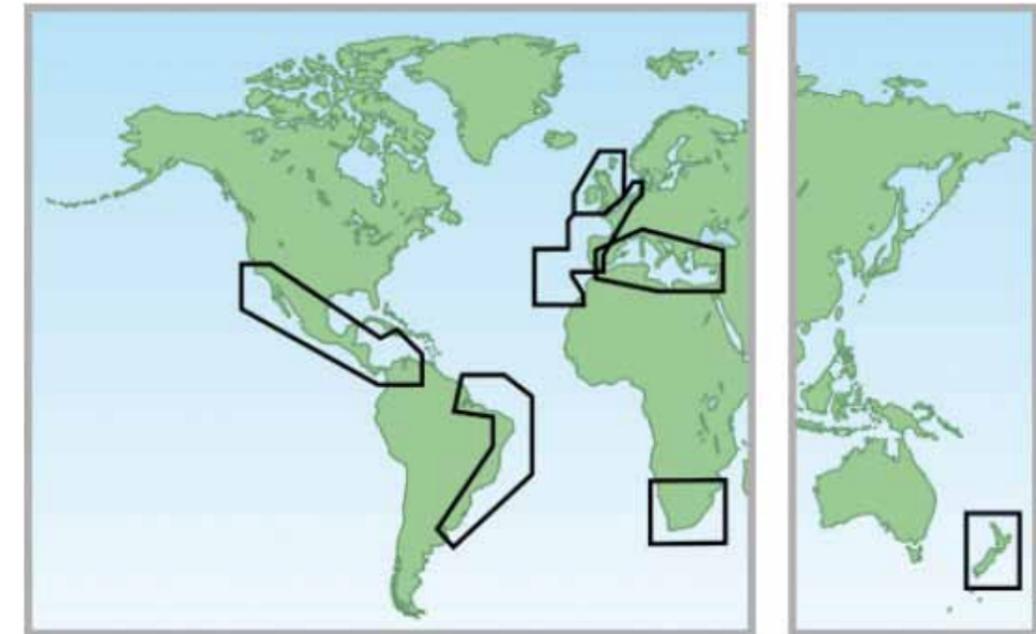
## Raster cartography Maptech



Maptech is the worldwide standard for raster maps published in the BSB format.

Maptech has reproduced the charts of the most respected cartographic institutes, with all the details and colours already on the paper versions. It has over 4500 scanned maps complete with shallows, depths and the currents on the areas covered by the British Admiralty and the NOAA.

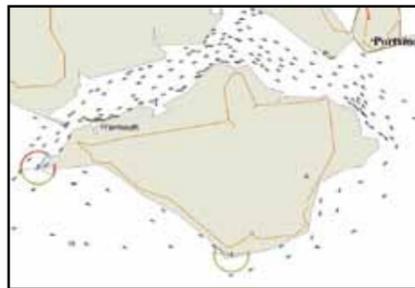
One Maptech licence gives you the right to use the same PRODUCT ID for two installations. Maptech charts are registered to the computer on which they are installed.



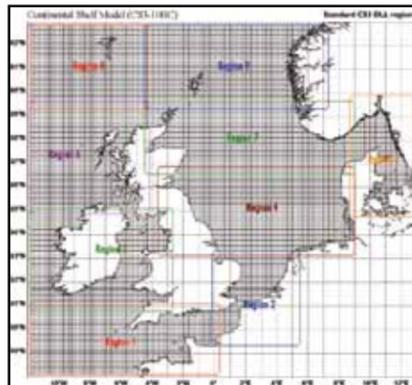
Tidal information can be displayed on the map, and can also be incorporated into route calculations, or layline calculations and destination. Those predictions are available with two formats : atlas and/or Grib files.

## Current atlas

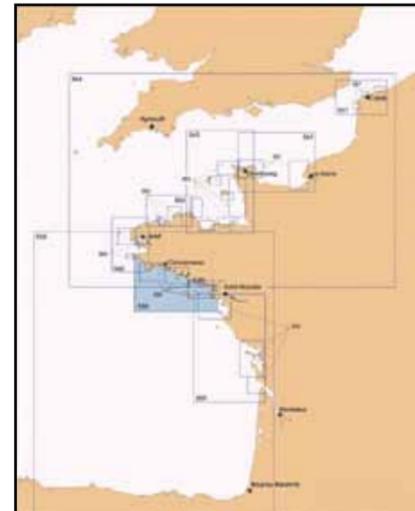
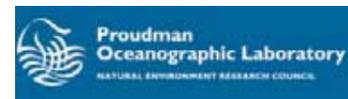
Adrena is managing the current atlas from SHOM (french coasts : atlantic, channel and North sea), Proudman (British islands) and Winning tides (Solent).



Winning Tides  
Solent



Proudman  
British islands



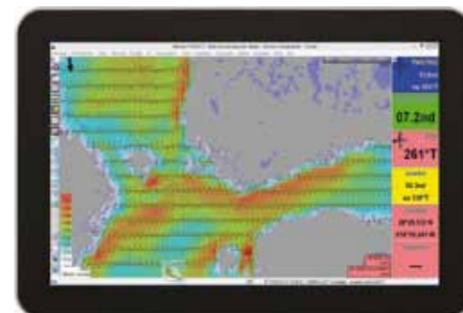
SHOM  
French coasts



## Grib files

In Adrena software, it is possible to load current Grib files downloaded through a direct Tidetech interface.

Tidetech offers a global catalogue of current data covering more than 25 regions in the world. Resolution goes from 100m to 6km and they also provide worldwide oceanic current data. The access to tidetech Grib files is linked to a Pro subscription that has to be purchased at Tidetech's.



The weather should be loaded in GRIB format. They can be displayed on the screen (winds, depressions, etc ...) and used in a routing calculation.

There are two ways to integrate a GRIB file in software ADRENA :

- by downloading it with the usual tools (web, email subscription, ...) and then integrating the file
- directly from Adrena via a direct interface with GRIB.US, Navimail 2 or PredictWind.



## GRIB.US

Within an easy to use interface, it offers worldwide predictions with free download. It gives immediate access to custom weather data.

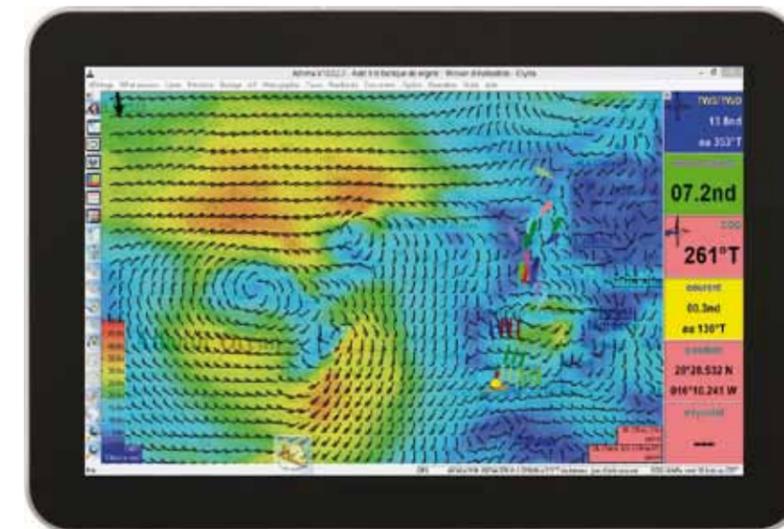
## Navimail<sup>2</sup>

Navimail<sup>2</sup> from Météo-France, is an acquisition and display tool for oceanic-weather data (forecasts, satellite images, prediction files). It covers all seas worldwide and can be used from a basic internet connection.



## PredictWind

PredictWind produces some of the highest resolution GRIB files for coastlines around the world. These forecasts capture local sea breezes and geographical effects and are well known for their accuracy.



## Technical Data

- Supported operating systems windows XP, VISTA, SEVEN or WINDOWS 8 (32 or 64bits) (except Windows 8 RT)
- Screen resolution 800 x 600 minimum, 1024X768 recommended
- NMEA 183 connection with the instruments
- Dedicated USB connector for the dongle
- RS232 serial port or USB port with adapter
- CD drive for software installation + Maptech mapping
- DVD drive for installation mapping CMap
- Dedicated graphic memory : 256 Mo min

### Optima

- CPU 1GHz
- RAM 1GB
- Hard Disk 1GB of free memory

### OptimaPro

- CPU 1.5GHz
- RAM 2GB
- Hard Disk 2GB of free memory

### First Range

- CPU 1.5GHz
- RAM 2GB
- Hard Disk 2 GB of free memory

### Standard Range

- CPU 1.5GHz
- RAM 2GB
- Hard Disk 2.5GB of free memory

### Pro Range

- CPU 1.5GHz
- RAM 2GB
- Hard Disk 4GB of free memory

## Technical support

ADRENA is providing a free technical support by email to its users.

In order to guarantee a high quality service, ADRENA is also offering the following services :

- FAQ on the website
- User guide
- Dedicated email address : support@adrena.fr

Whatever your level of use is, ADRENA is offering training sessions that will help you getting the best of your software according to your navigation program. These training sessions are organised with an ADRENA trainer.



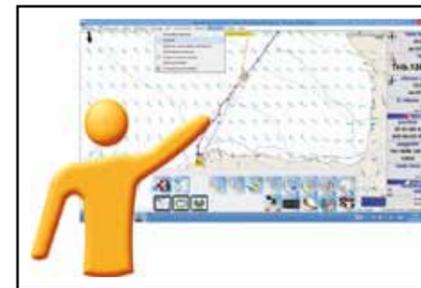
### Alone or collective training

It is possible to book a training for several people. The number of people stay limited to guarantee efficiency and good exchanges.

### At distance or at our office

With a high speed internet connection and a phone, the trainer can overtake control of your computer remotely and communicate with you by phone to promote interactivity. Like this you follow on your screen the trainer's explanations and manipulations.

The trainings can also be held at our office : ADRENA, 183 route de Clisson – 44230 Saint Sebastien sur Loire - France.



### Preset training or adapted to your needs

The training list is available on our website (www.adrena.fr) at Technical support page.

If your needs are specific, it is possible to adapt any training program to your targets and to your profil to go deeper into some specific aspects.

### Every preset training last 3h (offer on demand)

For any offer demand or information, please contact us at +33 975.454.048 or by email at : commercial@adrena.fr.



## Plan your navigation

This software, free and open to everyone, will help you for navigation preparation. It is delivered with the C-Map and SHOM coastline.

### GRIB display

It enables the display and the visualization of the wind prediction, the currents, the rain, the pressure and the waves for your next navigation.

### Route preparation and simulation

It offers the possibility to create waypoints, a route and to simulate them. It also gives informations of distance, ground heading and TWA.

### Meteogram

It is possible to visualize the predicted evolution of the wind and of the pressure at a given point.

### Global tide module

A tool constantly calculates the tides so that at any point on the globe at any time it is possible to know: the tidal coefficient, the height and the trend.

### Race tracking

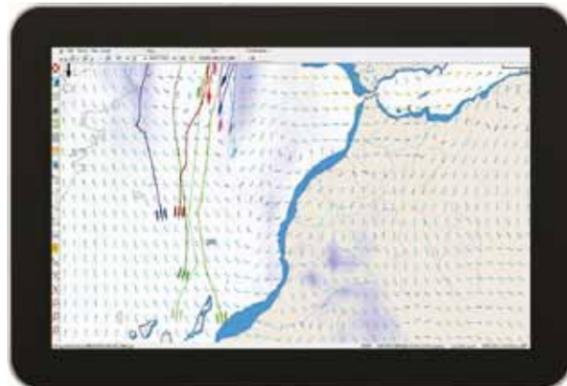
It places other competitors on the screen, monitor their route and produce routings involving them. Results can also be calculated in compensated time for handicap races.



The best use them...  
Why not you?!

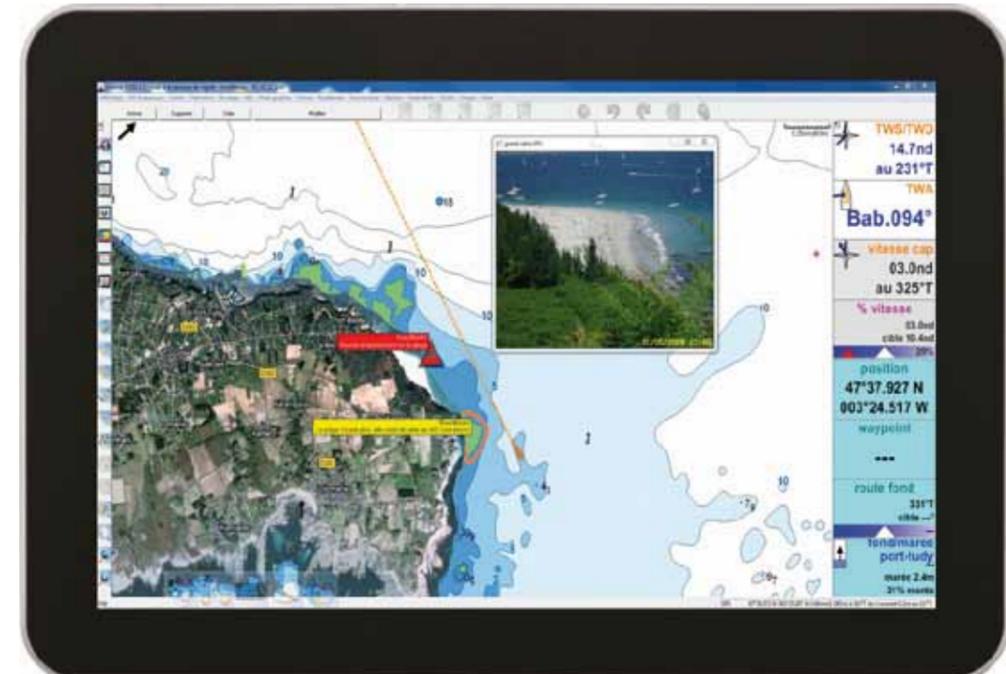
Try Adrena software free  
for 30 days

[www.adrena.fr/en](http://www.adrena.fr/en)



### KEY FEATURES

- GRIB display (wind, current, rain, pressure and waves)
- Route preparation and simulation
- Race tracking
- Meteogram
- Global tide module





# ADRENA

**NAVIGATION SOFTWARE**  
to serve your performance

Your ADRENA retailer



[www.adrena.fr/en](http://www.adrena.fr/en)

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