



0. Contents:

1. Load Weather Data	p.1
(A) WX-Button	p.1
(B) Drag & Drop	p.2
2. Use the Display Functions	p.3
(A) Choose Displayed Weather Parameter	p.4
(B) Local Weather Information	p.5
(C) Local Weather Time Series	p.5
(D) Point Weather	p.7
(E) Port Weather	p.8
(F) Climate Data	p.10
3. Legend	
(A) Weather Symbols	p.11
(B) Wind	p.11
(C) Ocean Currents	p.12
(D) Geo Layers	p.12
(E) Tools	p.13

1. Load Weather Data:

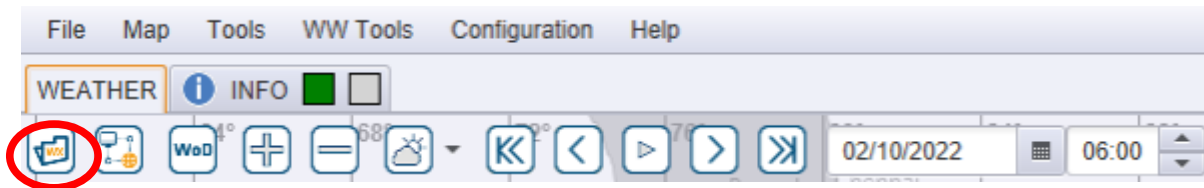
METEO PILOT is associated with access to WetterWelt's global weather forecast service. There are different options to receive and import weather forecast data from WetterWelt (see manual 'How to request weather data' manual).

Weather forecast data used in **METEO** PILOT is in the gridded binary format (.grb), but the data files are zipped and can be loaded as zip-files (.zip).

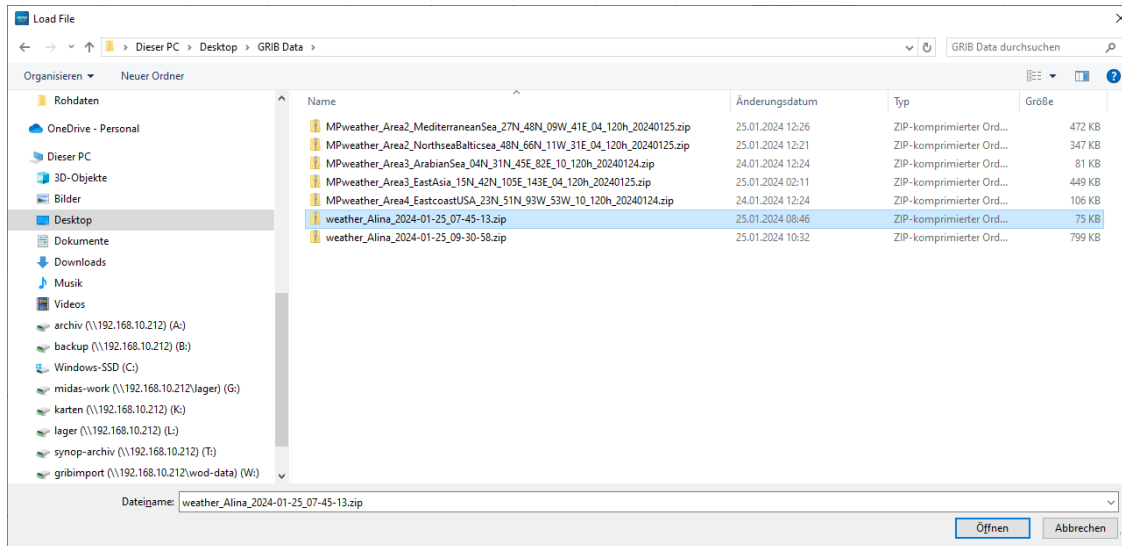
(A) WX-Button:

Hit 'WX-Button' in the tool bar



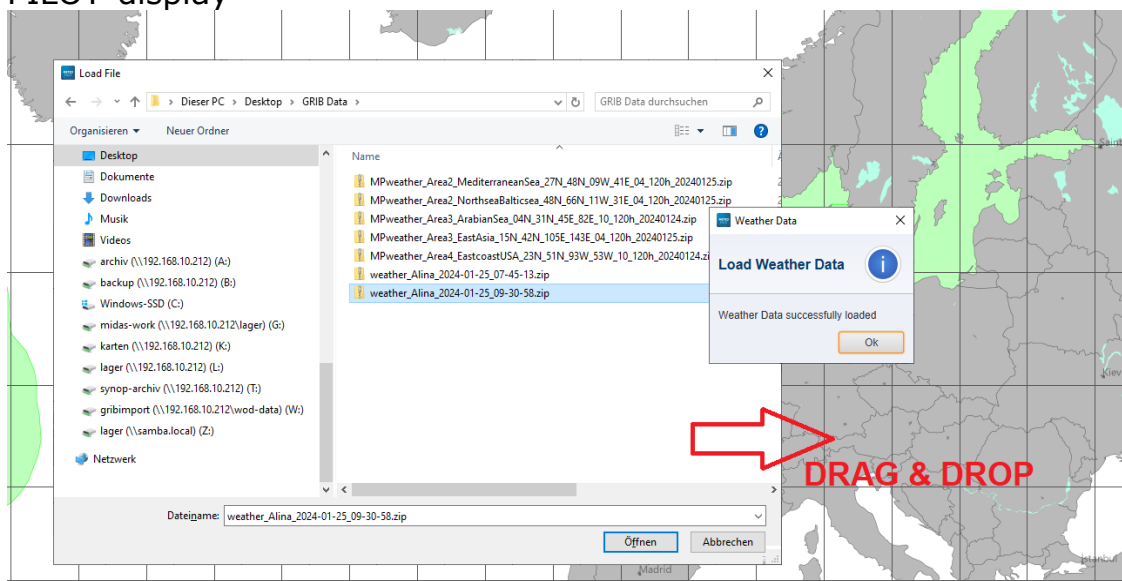


A second window opens → choose the data package, that is stored on your file system or network → open / load the weather file



(B) Drag & Drop:

Drag & Drop the file from your file system or network into the **METEO PILOT**-display



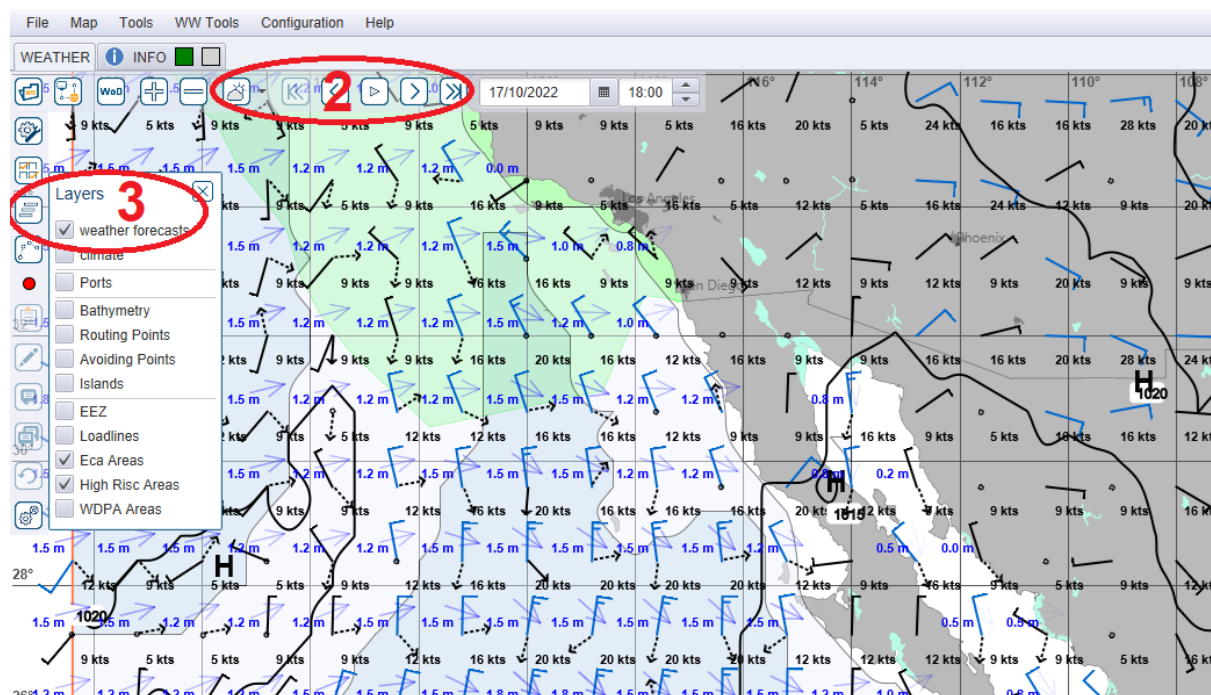
With this action, the weather file is also copied into your program workspace.
Standard path: C:\Users\<user>\WetterWelt\METEOPILOT \weather

Once the weather data is loaded, this weather data is applied to

- The display system; i.e. you can see the weather chart
- All performance calculations within any loaded voyage

2. Use the Display Functions:

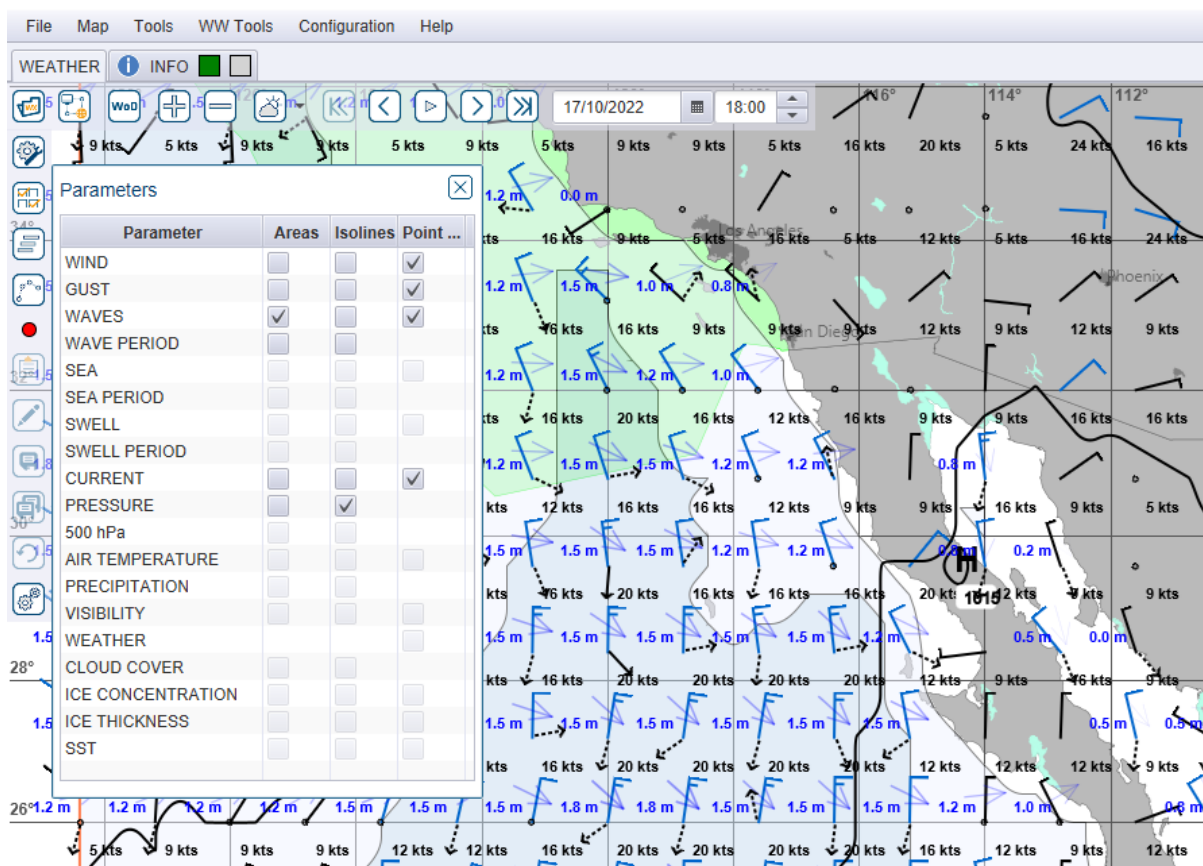
Weather Forecast data is displayed in the Weather – Tab:



1. Right mouse click on chart → context menu: 'Map / Zoom to Weather Area' fits the display to the weather area
2. Use the time function buttons for changing the displayed time steps
3. 'Toggle weather' on/off via 'Layers' shows/hides the weather layer display



(A) Choose Displayed Weather Parameters:



Choose your weather parameters in the display function:

Go to the function bar for changing the displayed parameters:

All weather parameters, that are included in the loaded weather data file, are activated and can be displayed.

Parameters, that are not part of the loaded weather file, are greyed out (disabled).

Predefined settings can be used for the clearest display; click on one of the boxes for the display of predefined settings. Single parameters can be adapted; click on the box for single parameters and change the display settings according to your needs.



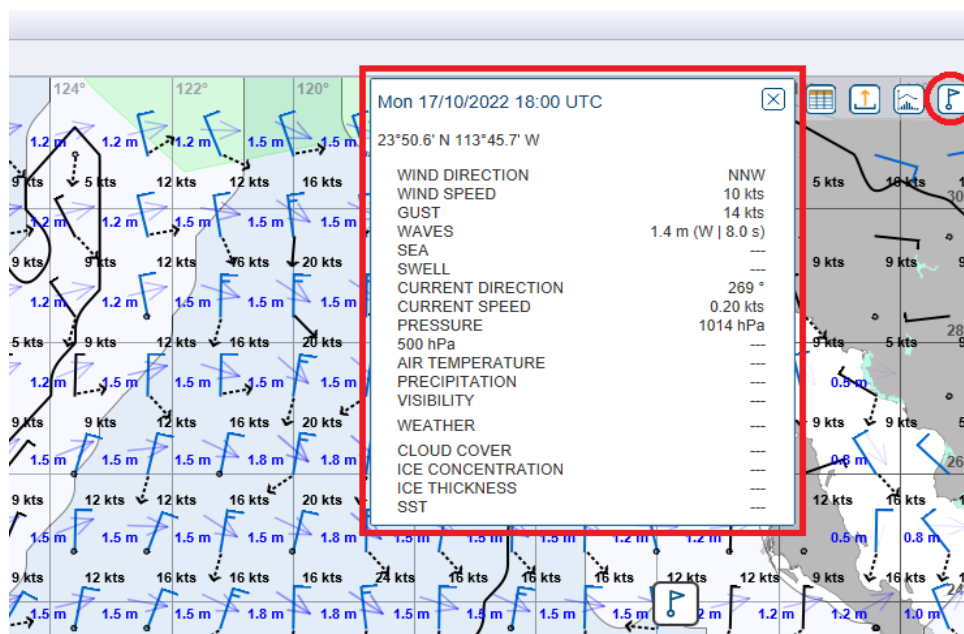
There are some restrictions in the settings: only one parameter can be displayed as an area with isofields. Only specific parameters can be displayed as lines or point weather at the same time.



(B) Local

Weather

Information:



The local weather information on the right side of the weather tab show the local weather at the displayed forecast time step for the current location of your mouse cursor. You can fix the local point by using the function 'Forecast Point'.



(C) Local Weather Time Series:

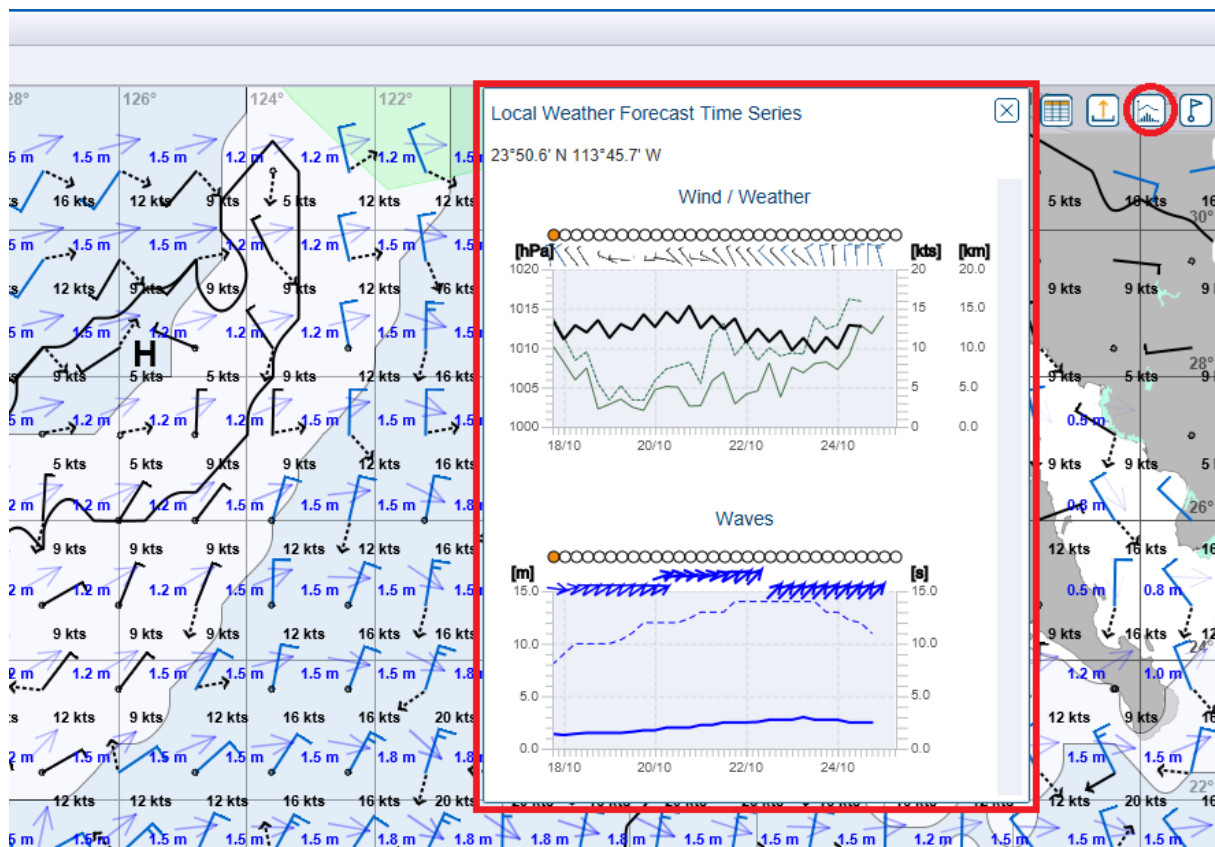
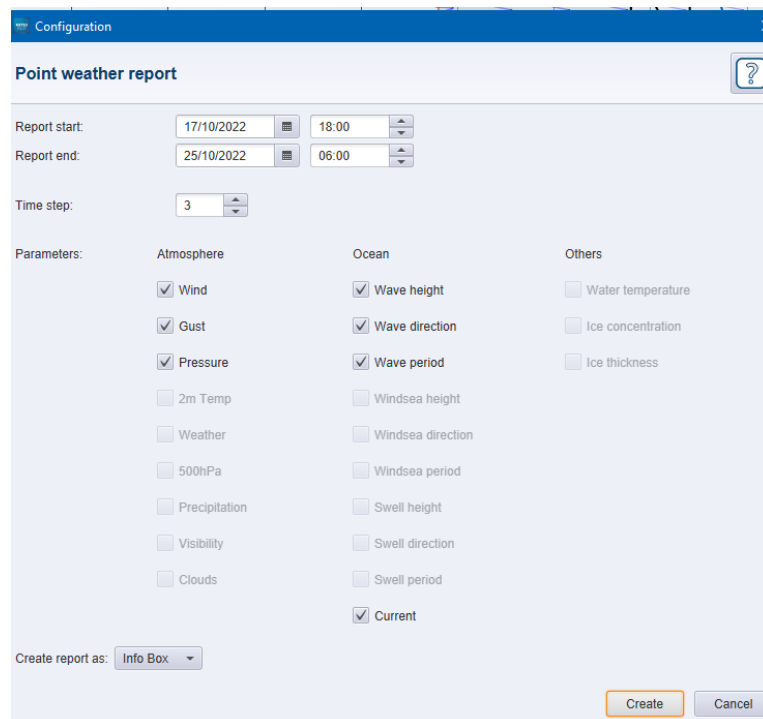
The local weather time series on the right side of the weather tab shows the local weather forecast for the current location of your mouse cursor.



You can fix the local point by using the function 'Forecast Point'. TO set a forecast point, click with the right mouse button into the chart -> weather -> set forecast point.

Click on the 'export forecast'-button to export the point weather report:

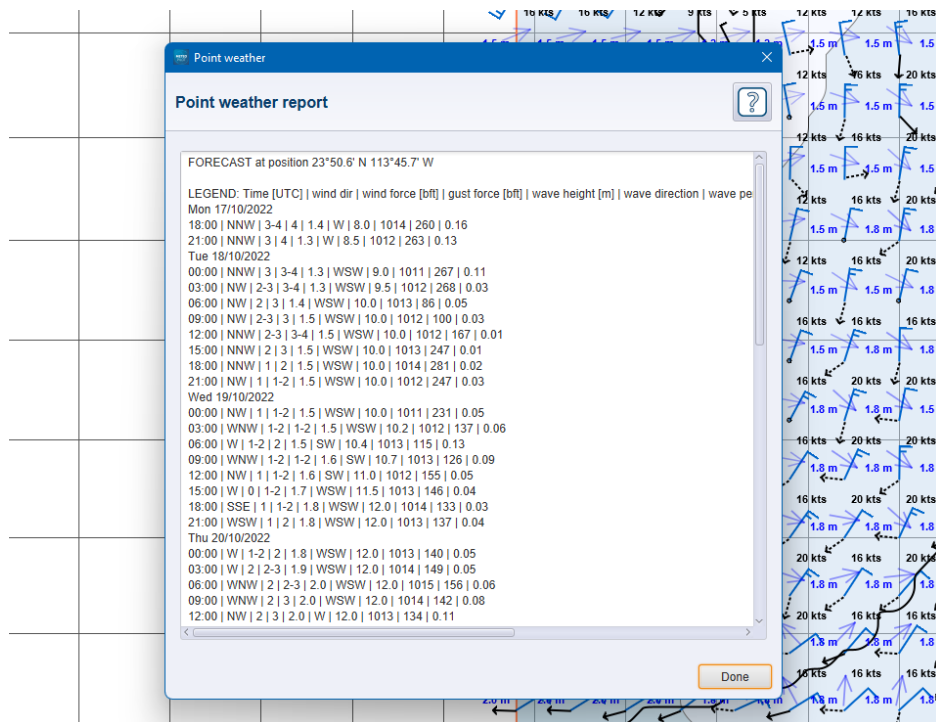


The screenshot shows the 'Configuration' window in the WetterWelt software. It is titled 'Configuration' and has a 'Point weather report' section. The 'Report start' is set to 17/10/2022 at 18:00, and the 'Report end' is set to 25/10/2022 at 06:00. The 'Time step' is set to 3. Under the 'Parameters' section, there are three columns: 'Atmosphere', 'Ocean', and 'Others'. The 'Atmosphere' column has checkboxes for Wind, Gust, Pressure, 2m Temp, Weather, 500hPa, Precipitation, Visibility, and Clouds. The 'Ocean' column has checkboxes for Wave height, Wave direction, Wave period, Windsea height, Windsea direction, Windsea period, Swell height, Swell direction, Swell period, and Current. The 'Others' column has checkboxes for Water temperature, Ice concentration, and Ice thickness. The 'Create report as' dropdown is set to 'Info Box'. There are 'Create' and 'Cancel' buttons at the bottom right.

Choose the forecast specifications and parameters and create your individual weather forecast for a certain location.

The local weather forecast is provided in an info-box:



Attention:

The weather forecast is applied to the loaded weather file.

If a weather forecast for a certain location is required, please request / load the associated weather data package into your **METEO PILOT**.

If a weather forecast for a certain city / port is required, fix your forecast point with the function 'Point Weather':

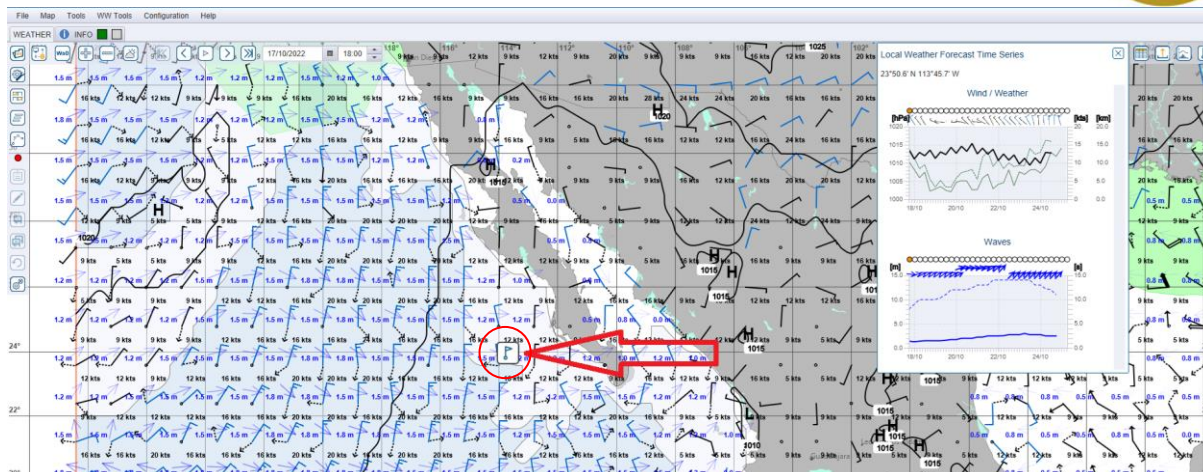
(D) Point Weather:

The function 'Point Weather' is available via

(A) Menu → Tools → Point Forecast

(B) Right mouse click on the screen / location of interest:

→ context menu → weather → set forecast point



The forecast point has been fixed on the location of your interest.

The marker on the display can be changed to another location simply by drag & drop with the left mouse button.

The forecast point can be removed from the screen / deactivate the function with:

- (A) Menu → Tools → Point Forecast (click for deactivation)
- (B) Right mouse click on the screen / location of interest:
→ context menu → weather → remove forecast point

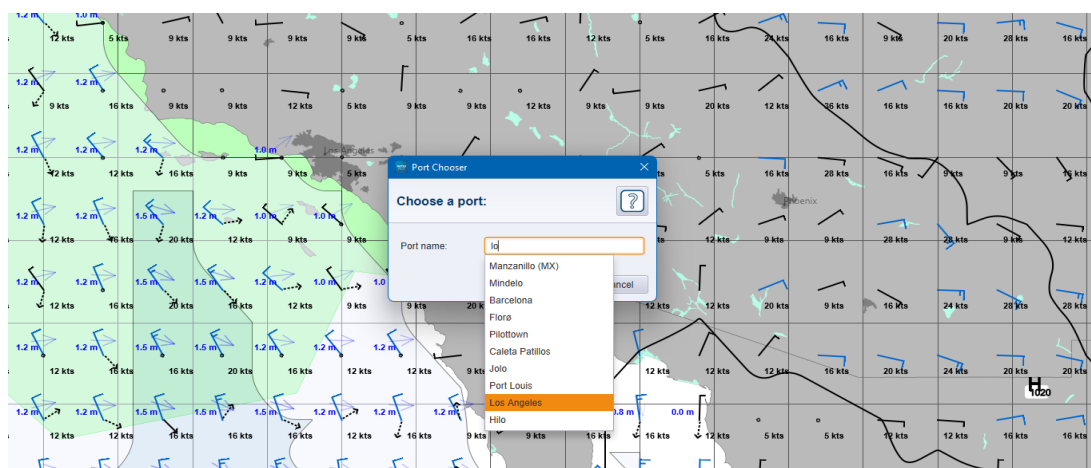
(E) Port Weather:

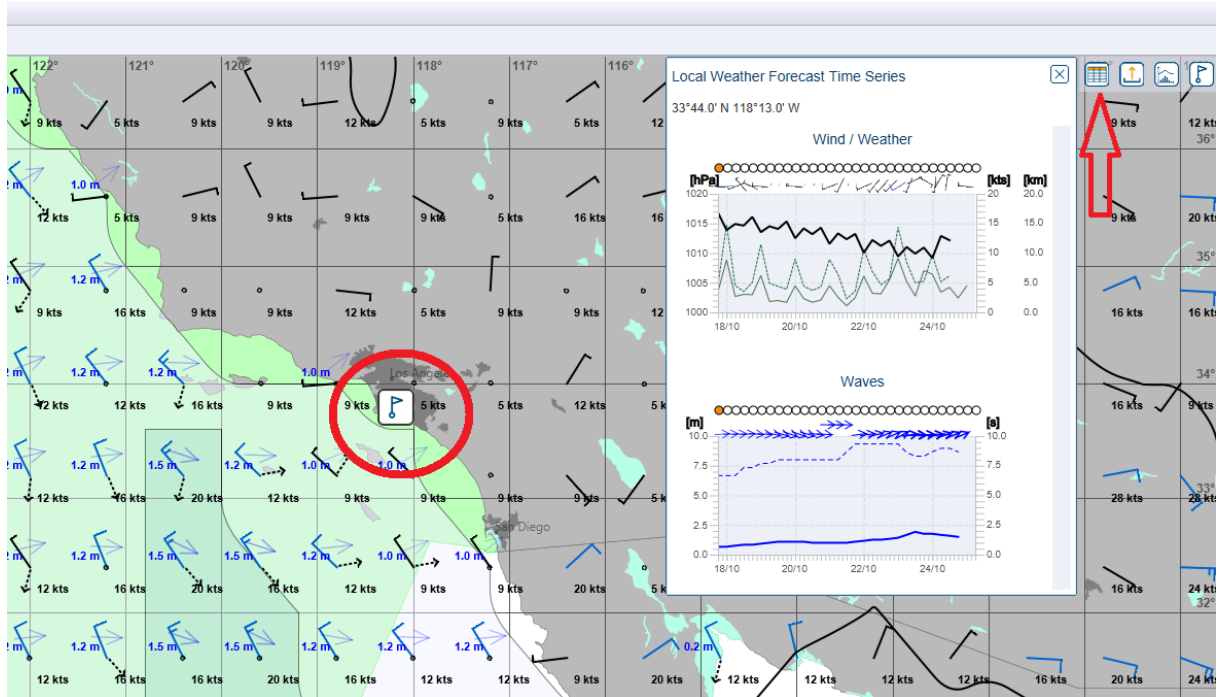
The function 'Port Weather' is similarly to 'point weather' available via Menu → Tools → Port Forecast

Activating 'Port Weather' opens a dialog window:

Search your port of Interest. The program provides the list of available ports. Choose your port of interest. Please type your port name in lower case. You can use the string-method to search for your port of interest.

Then the forecast point is getting fixed on the location of interest.





Click on **'export weather forecast for local point'** at the right side of the info panel and you will get a forecast time series in extra window.

The Forecast point can be removed from the screen / deactivate the function with

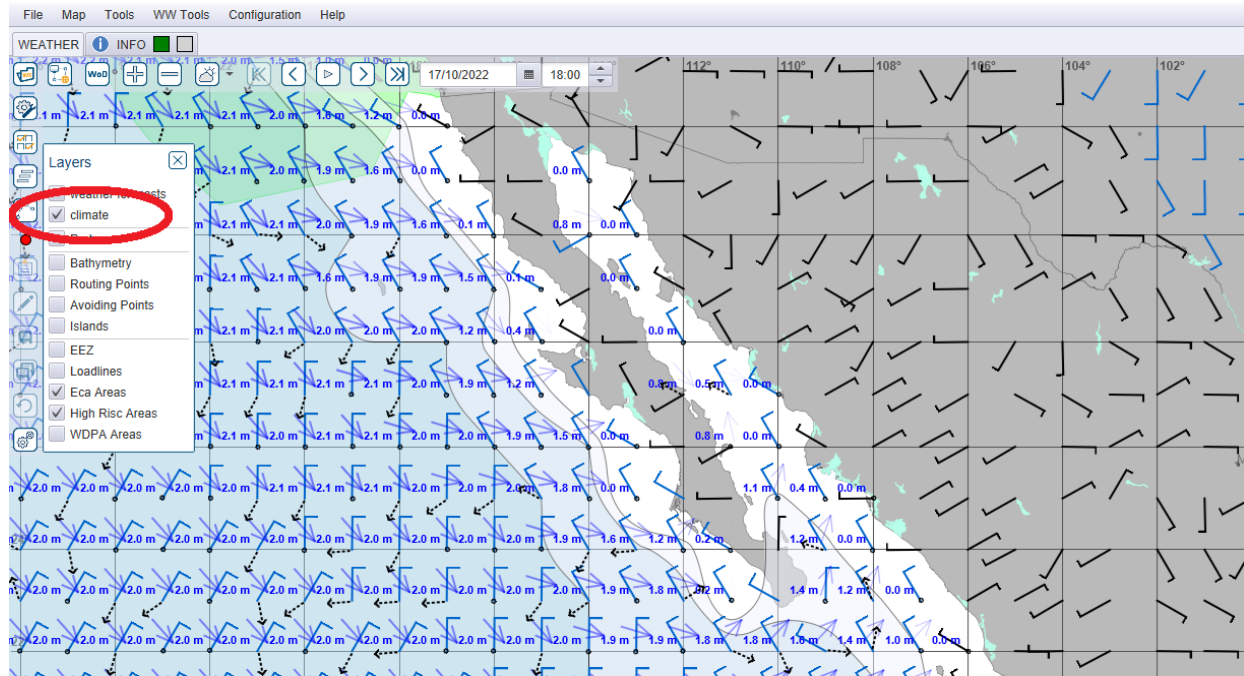
Menu → Tools → Port Forecast (click for deactivation)

Attention:

'Point Forecast' and 'Port Forecast' information are only applied to the loaded weather forecast file in the program. I.e.: if the forecast is required for a certain port, you must download a weather forecast file accordingly.

(F) Climate Data:

Same as weather forecast data, worldwide climatological data is integrated as weekly averages in **METEO** PILOT and can be displayed as well.



Toggle 'climate' on/off via 'Layers' shows/hides the climatological averages layer.



Attention:

If both, the weather forecast AND the climate data are enabled in the display function, then the weather forecast data is primarily displayed within the forecast time period – and the climate data is shown beyond this period.

The climate data does not have to agree with the current forecast, but only shows an average.

3. Legend:

(A) Weather Symbols:

	sunny		sunny with few clouds		sunny with scattered clouds
	overcast		hazy / early morning fog		fog
	Slight rain		rain		rain showers
	snow showers		Slight snow		heavy rain
	rain and snow		snow		alternating clouds and thunderstorm
	thunderstorm		thunderstorm with snow/ sleet/ hail		

(B) Wind:

in Bft	kn-Fieder	kn	m/s	km/h
0	○	< 1	0 - 0,2	< 1
1	○	1 - 3	0,3 - 1,5	1 - 5
2	└─	4 - 6	1,6 - 3,3	6 - 11
3	└─└─	7 - 10	3,4 - 5,4	12 - 19
4	└─└─└─	11 - 15	5,5 - 7,9	20 - 28
5	└─└─└─└─	16 - 21	8,0 - 10,7	29 - 38
6	└─└─└─└─└─	22 - 27	10,8 - 13,8	39 - 49
7	└─└─└─└─└─└─	28 - 33	13,9 - 17,1	50 - 61
8	└─└─└─└─└─└─└─	34 - 40	17,2 - 20,7	62 - 74
9	└─└─└─└─└─└─└─└─	41 - 47	20,8 - 24,4	75 - 88
10	▲└─└─└─└─└─└─└─	48 - 55	24,5 - 28,4	89 - 102
11	▲└─└─└─└─└─└─└─└─	56 - 63	28,5 - 32,6	103 - 117
12	▲└─└─└─└─└─└─└─└─└─	> 63	> 32,6	> 117

(C) Ocean Currents:

	0,1 kn		0,2 – 0,5 kn		0,6 – 1 kn
	1,1 – 1,5 kn		1,6 – 2 kn		> 2,05 kn

(D) Geo Layers:

Additional to the weather layers, **METEO** PILOT offers geo layers for displaying in the chart:

- Ports
- Bathymetry
- Routing Point
- Avoiding Points
- Islands
- Economic Exclusion Zones (EEZ)
- WDPA Areas
- Loadlines
- ECA Areas
- High Risk Areas

Each layer can be enabled / disabled in the weather display via the 'Layers'-function in the toolbar on top of the weather tab.



Attention:

ECA areas have effect to cost calculations within voyage planning mode. The program switches automatically between HFO / MGO consumption – either way, if the ECA area is enabled / disabled in the display.



(E) Tools:

The main menu provides some 'Tools'. To enable the according tool, click on the item in the menu. To disable the same tool, click on the item in menu again.

Tools → Ranger

For distance calculations between two points A and B. You can change / shift the position of both points on the chart by left mouse click and drag & drop.

Tools -> Port Forecast

Search a specific port with the 'port chooser'. The drop-down function provides all ports, which are included in the port list as suggestion. Click on the port of your choice – then a marker is set to the location of the port on the chart.