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1. Voyages:

Voyages are the key element in **METEO** PILOT for cost planning and voyage optimization.

Basic objects within each voyage are (1) a route, (2) a speed profile and (3) a consumption profile. They combine the basic elements of a ship-specific voyage.

Additionally, a base speed (=planned or instructed speed without any wind / wave and current impact) and ETD are added for the calculation and output of a specific voyage.

Attention:

In contrast to routes and speed / consumption profiles, the voyages are stored in your file system on your PC and can be saved / loaded on / from external sources and are thus easy to share in a network / via e-mail. The voyages are stored as <name>.json.

2. Create / Load voyage:

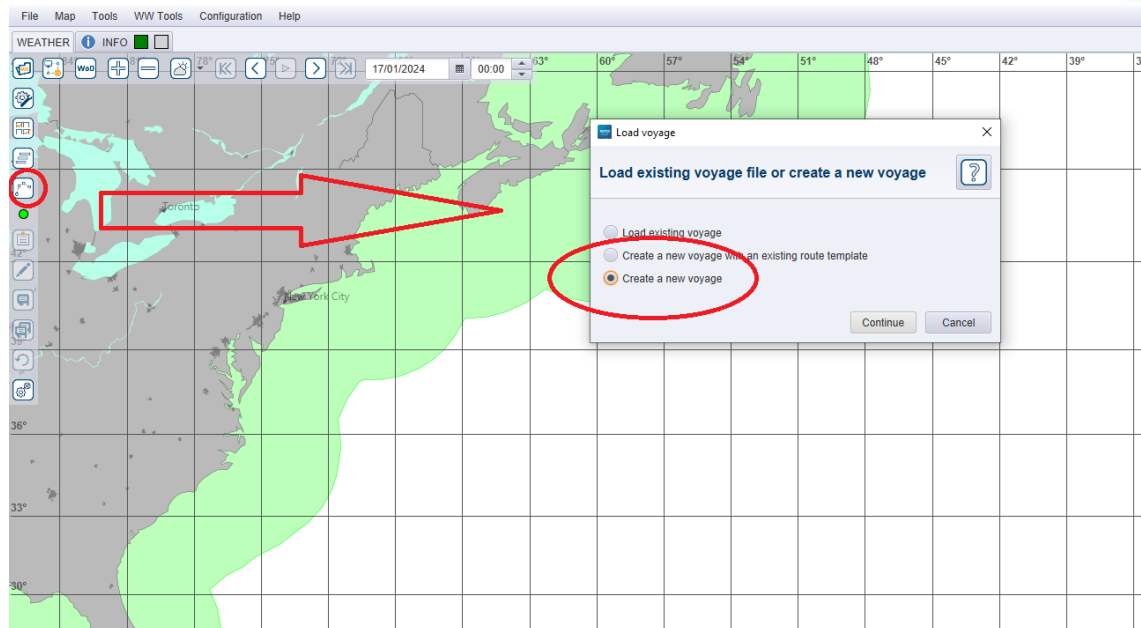
Options for loading a voyage or creating a new voyage:

- Go to: main menu -> 'File' or
- Click on the 'voyages' button



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There are three Options:

- (A) Load existing voyage (→ go to file system / folder)
- (B) Create a new voyage with an existing route template
- (C) Create a new voyage

Choose '**Create a new voyage**' (Option C)

→ Continue

Plan voyage

Voyage specification:

Voyage Name: new

Vessel Specification:

Speed Profile: default

Consumption Profile: default

Draft: m

Base Speed: 12.00 kts

Weather Limits, Wind: 8.00 kts

Wave: 4.00 m

Voyage Specification:

From Port: Start 45° 31.8' N 79° 27.9' W

To Port: Finish 45° 31.8' N 100° 32.1' E

ETD: 21/10/2022 07:32

Cost Calculation (optional):

Bunker Price, HFO: \$ / t

Operation Costs: \$ / d

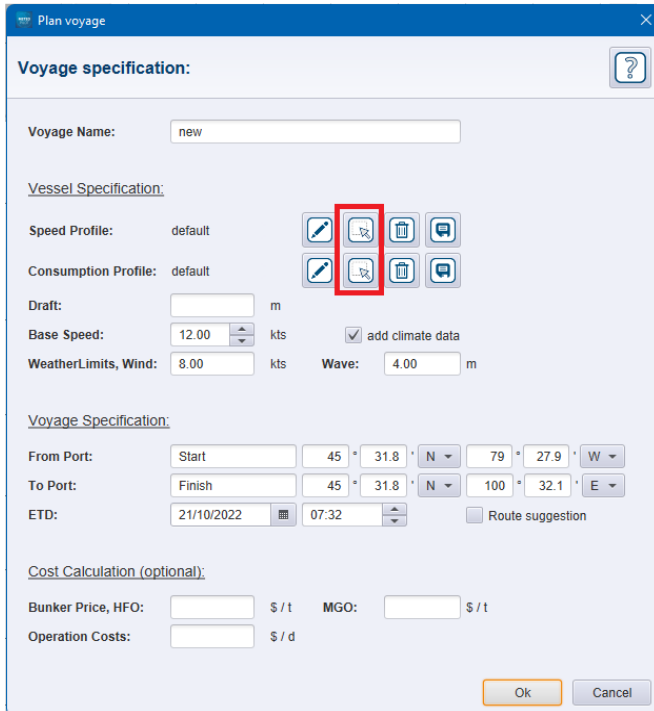
Ok Cancel

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(A) Specify Voyage Details:



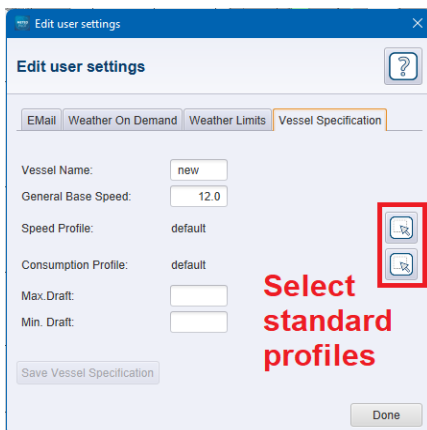
Chose a name of your voyage (like "Vessel Name _ Start _ Finish").
Select **speed profile** and **consumption profile** from the speed and consumption profile manager, if available.
Adjust planned base speed etc.

Attention:

If no vessel specific profiles have been imported or created, the default file is used automatically for all weather-related performance calculation on this voyage!

The standard profiles for each new voyage are used from the user settings. **You can change the standard user settings:**

Go to: main menu → Configuration → Settings → Vessel Specification



'Done' takes you back to the 'voyage specification dialog':

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A screenshot of the 'Plan voyage' dialog box. The 'Voyage specification' section includes fields for 'Voyage Name' (set to 'new'), 'Speed Profile' (set to 'default'), and 'Consumption Profile' (set to 'default'). Below these are 'Draft' (set to 'm') and 'Base Speed' (set to '12.00 kts'). A red rectangle highlights the 'Draft' and 'Base Speed' fields. To the right of 'Base Speed' is a checkbox labeled 'add climate data' which is checked and circled in red. Below these are 'WeatherLimits, Wind' (set to '8.00 kts') and 'Wave' (set to '4.00 m'). The 'Voyage Specification' section includes 'From Port' (set to 'Start'), 'To Port' (set to 'Finish'), and 'ETD' (set to '21/10/2022 07:32'). The 'Cost Calculation (optional)' section includes 'Bunker Price, HFO' (set to '\$ / t') and 'Operation Costs' (set to '\$ / d'). The 'MGO' field is also present. At the bottom are 'Ok' and 'Cancel' buttons.

Optional: Insert the actual Draft.

Edit the planned / instructed base speed and ETD of the voyage.

Enable/Disable '**climate data**', being used for this voyage for performance calculations on the entire voyage. If 'climate data' is disabled, then the performance is calculated with zero weather effect outside the weather forecast data (max. forecast period is 10 days).

If no existing route template shall be used for voyage planning, then: edit 'start' and 'end' point of the voyage to be created. You can search for ports at start and finish point. Insert the required port name and the program checks in the port list for the port. If available, the geolocation will be adapted.

(B) Cost Calculation:

Information on Bunker prices (HFO/LSFO \$/t) and ship operation costs (\$/day) are optional and relevant for cost planning.

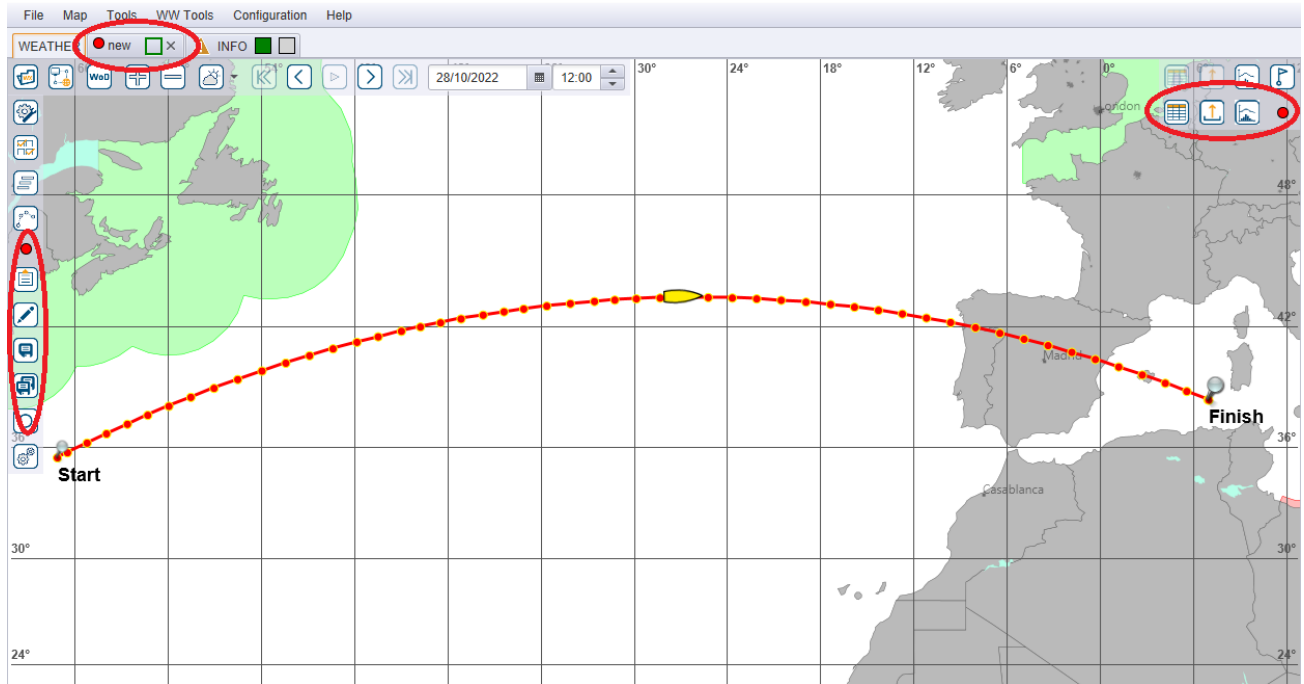
If cost planning is not required, then keep both fields blank.

(Weather Limits determine the weather information shown in the 'Voyage Details' and warnings.)

Press 'OK'.

3. Adjust Voyage:

The route track with 'Start' and 'Finish' waypoint is displayed on the screen. The waypoints can be moved using the mouse (left button). Additional waypoints can be added (right mouse button -> Voyage -> add waypoint).



It can be saved as a voyage file in the present voyage.

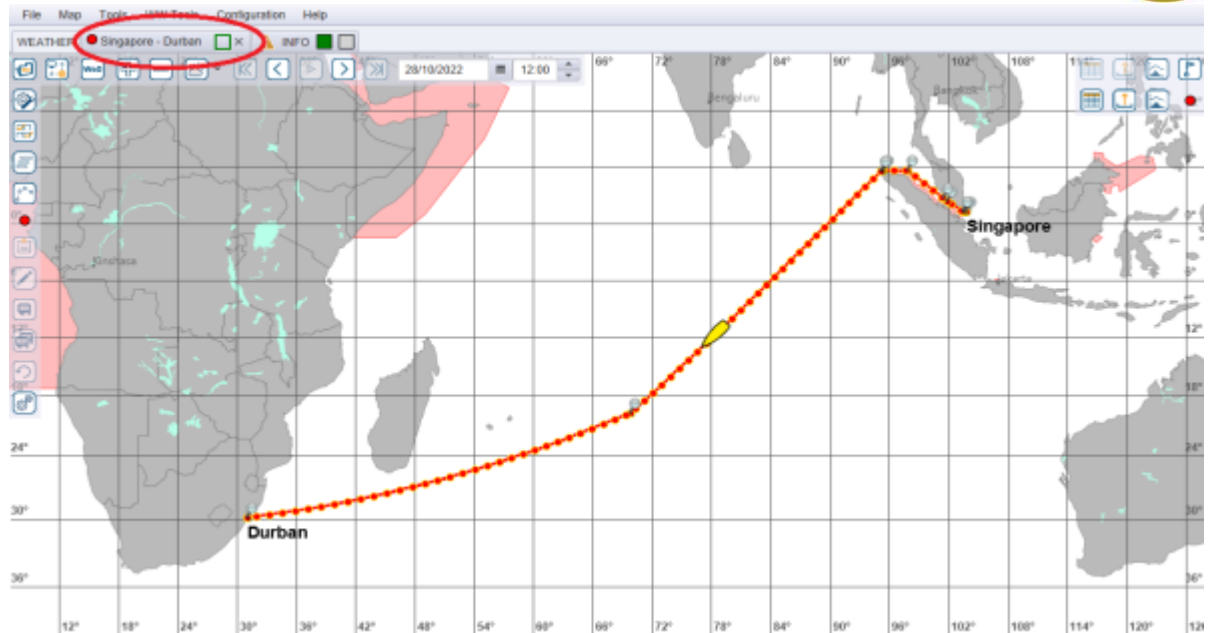
Besides the '**weather tab**', a '**voyage tab**' for this specific voyage appears on the screen at top of the chart.

The info panel at the top right of the screen includes 'route weather' information for this voyage.

As soon as weather data is loaded, the weather data is applied to the voyage. If no weather data for the time period of the voyage (ETS to ETA) is available, the program considers 'zero weather impact'.

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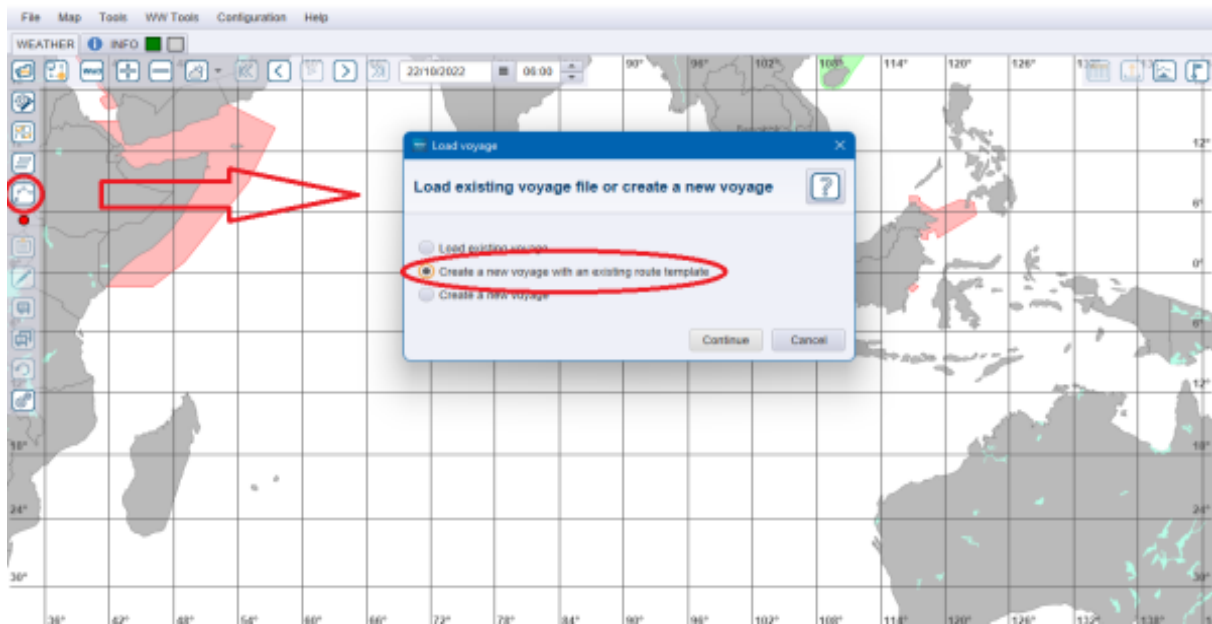


At the left side of the weather tab the
'Voyage Summary' and the **'Voyage Editor'**
appears.

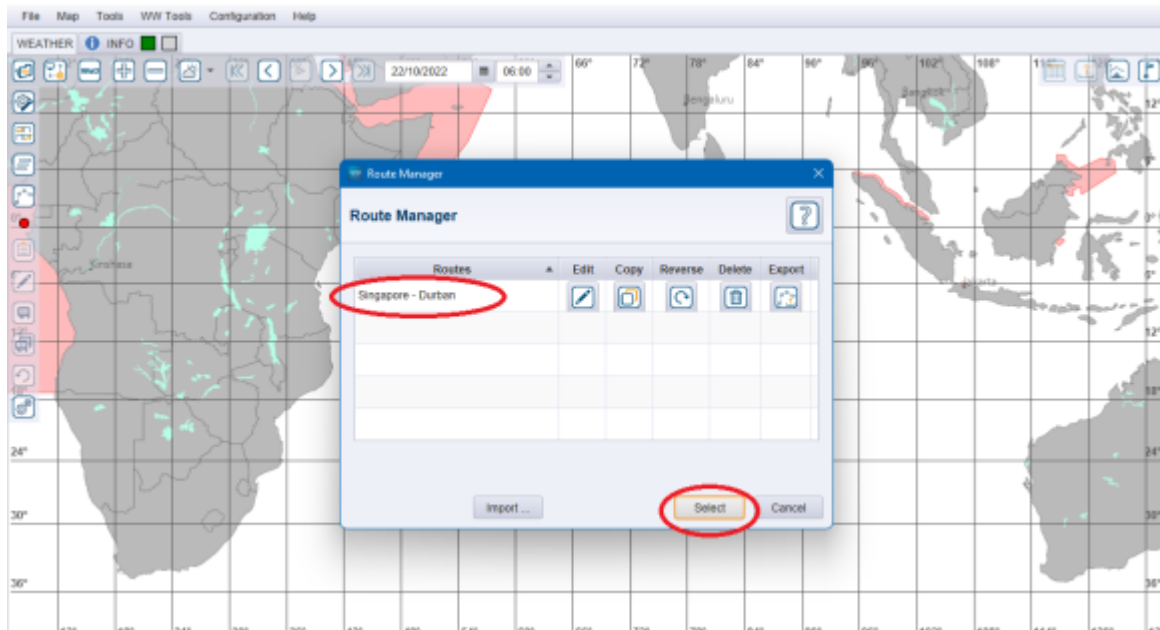


4. New Voyage with Existing Route Template (Option B):

To create a new voyage using an existing route template, click on the 'voyages'-button



Choose 'Define a new voyage with an existing route template'



Select your route template.

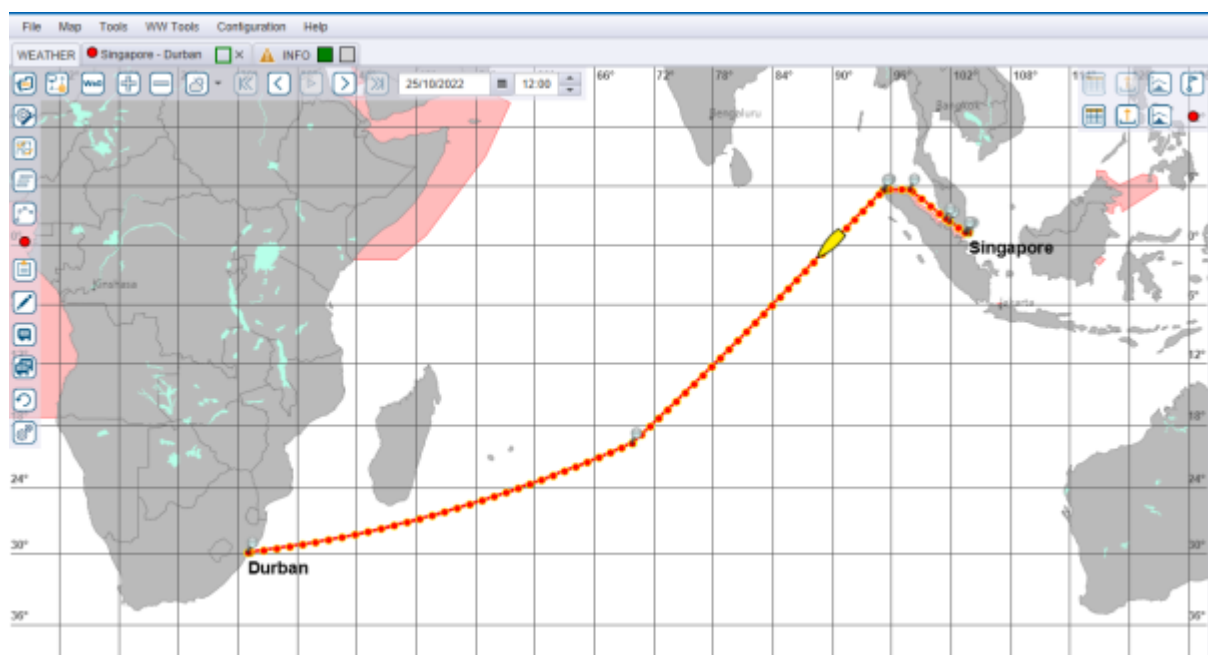
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If your route has not been saved as a template in the route editor, you can import route files and select the imported templates afterwards. Route files from ECDIS export in .csv format can be imported via File -> import route. Details see in <manual 'HowTo_UseRoutes'.

Define your voyage specification (same as in option C)





Your voyage is now created and loaded. The route track with 'Start' and 'Finish' waypoint is displayed on the screen.

Besides the 'weather tab', a 'voyage tab' for this specific voyage appears on the screen at top of the chart.

The info panel at the top right of the screen includes 'route weather' information for this voyage like warnings if weather limits are exceeded.

As soon as weather data is loaded, the weather data is applied to the voyage.

If no weather data for the time period of the voyage (ETS to ETA) is available, the program considers 'zero weather impact'.

On the left side of the weather tab the 'Voyage Summary' and the 'Voyage Editor' appears and can be opened.