

### 0. Contents:

|                                            |     |
|--------------------------------------------|-----|
| 1. Voyages                                 | p.1 |
| 2. Create / Load Voyage                    | p.1 |
| (A) Specify Voyage Details                 | p.3 |
| (B) Cost Calculation                       | p.5 |
| 3. Adjust Voyage                           | p.5 |
| 4. New Voyage With Existing Route Template | p.7 |

### 1. Voyages:

Voyages are the key element in MeteoPILOT 4 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-time 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 and can be saved/ loaded on/from external sources and are thus easy to share in a network. The voyages are stored as *<name>.json*.

### 2. Create / Load Voyage:

Options for loading a voyage or creating a new voyage:

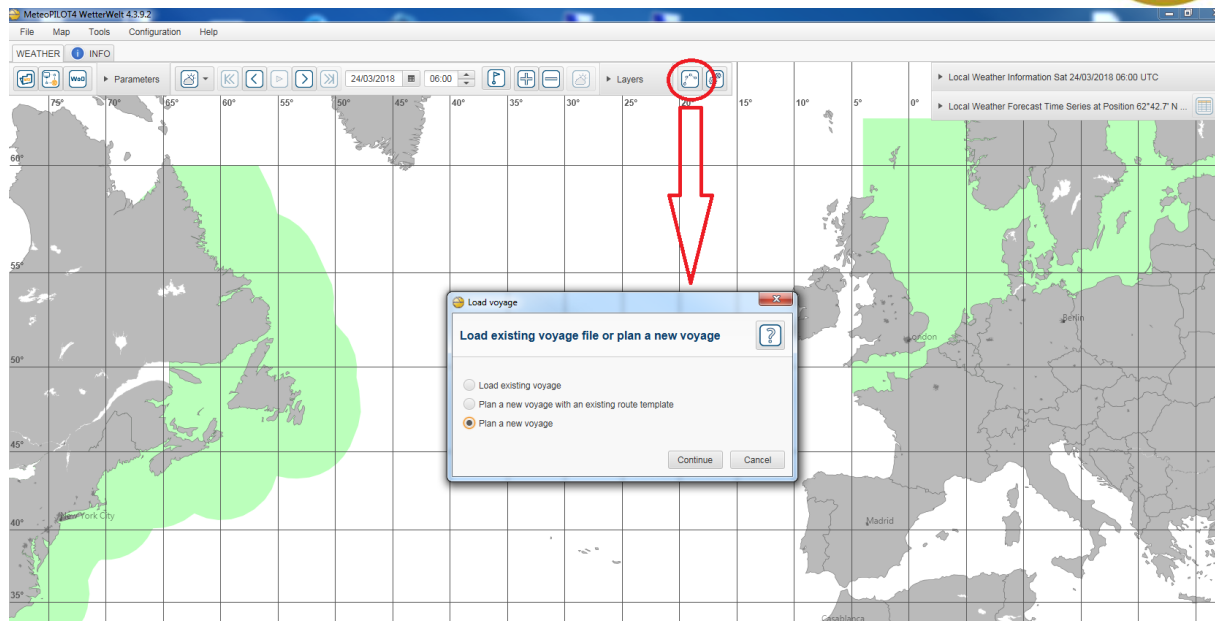
- Go to: main menu -> FILE or



- Click on the 'voyages' button weather

# MANUAL

## HOW TO create new voyages

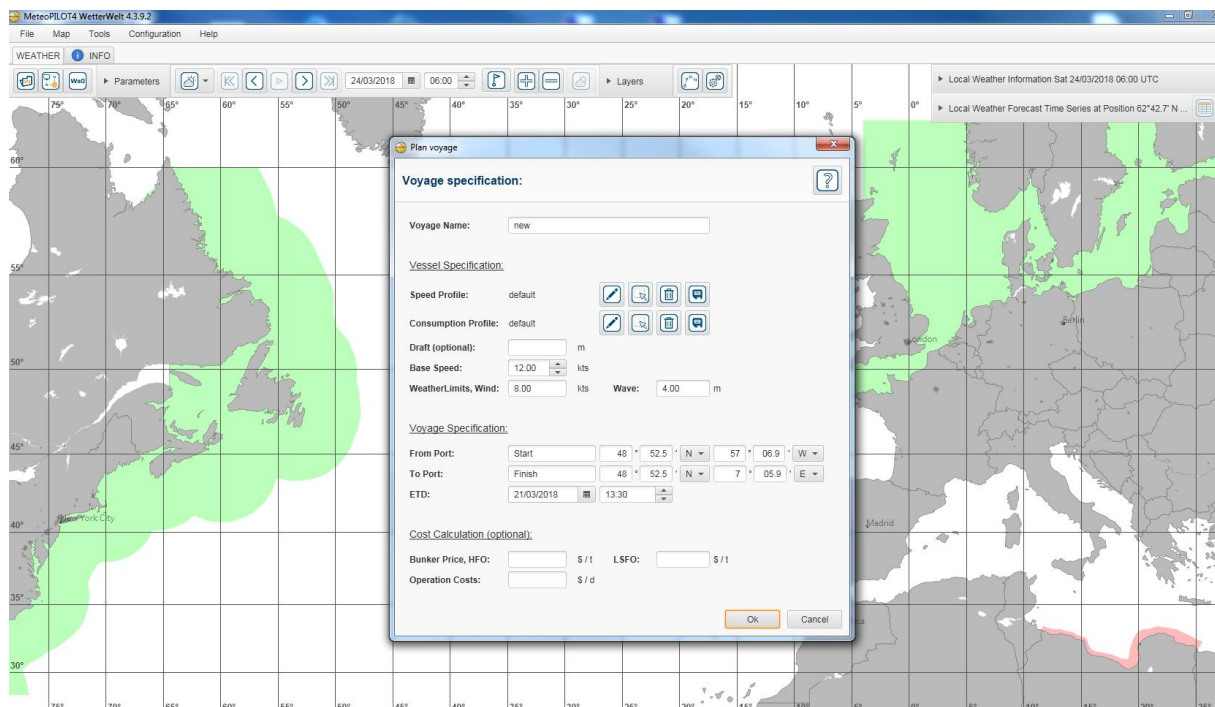


There are three Options:

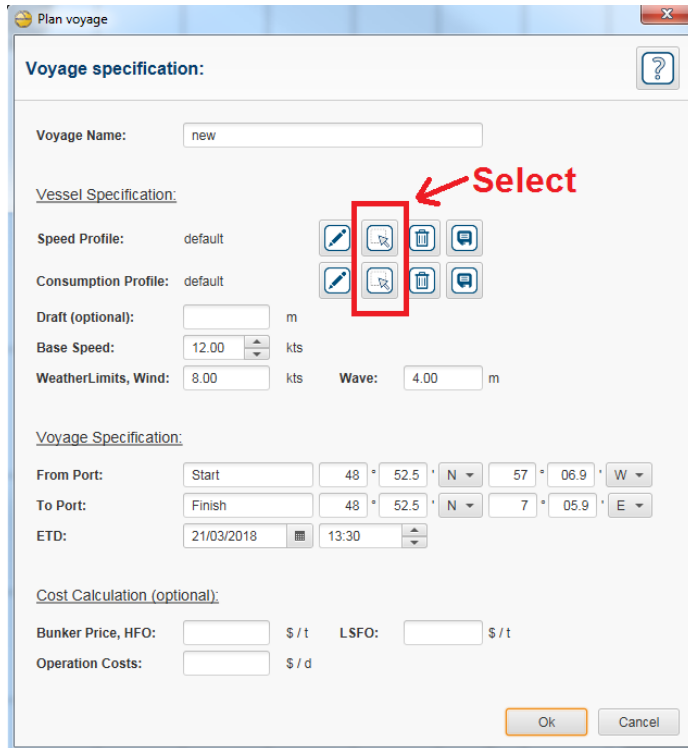
- (A) Load existing voyage (→ go to file system / folder)
- (B) Create a new voyage
- (C) Create a new voyage with an existing route template

Choose '**Plan a new voyage**' (Option B)

→ Continue



### (A) Specify Voyage Details:



Plan voyage

Voyage specification:

Voyage Name:

Vessel Specification:

Speed Profile: default

Consumption Profile: default

Draft (optional):  m

Base Speed:  kts

WeatherLimits, Wind:  kts Wave:  m

Voyage Specification:

From Port:  48° 52.5' N 57° 06.9' W

To Port:  48° 52.5' N 7° 05.9' E

ETD:  13:30

Cost Calculation (optional):

Bunker Price, HFO:  \$ / t LSO:  \$ / t

Operation Costs:  \$ / d

Ok Cancel

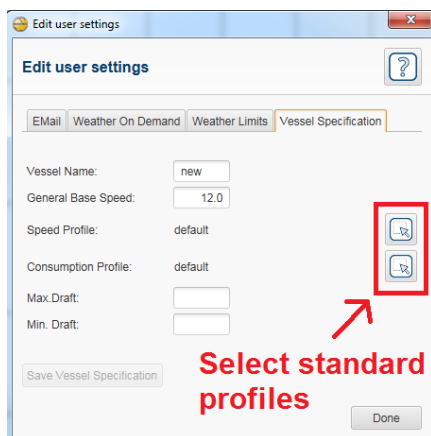
Select **speed profile** and **consumption profile** from the speed and consumption profile managers

### Attention:

If no ship 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



Edit user settings

E-Mail Weather On Demand Weather Limits Vessel Specification

Vessel Name:

General Base Speed:

Speed Profile: default

Consumption Profile: default

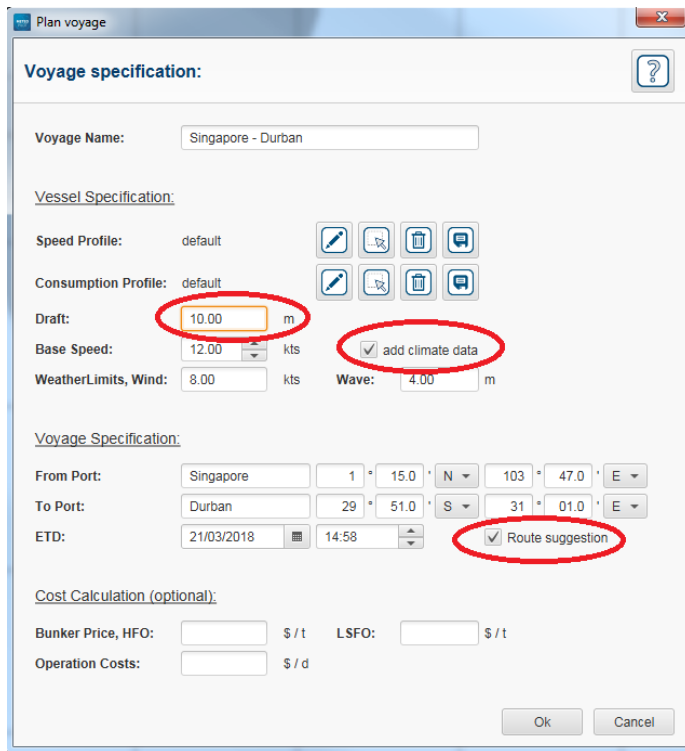
Max. Draft:

Min. Draft:

Save Vessel Specification

Done

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



The screenshot shows the 'Plan voyage' dialog box with the following fields and options:

- Voyage Name:** Singapore - Durban
- Vessel Specification:**
  - Speed Profile:** default
  - Consumption Profile:** default
  - Draft:** 10.00 m (highlighted with a red circle)
  - Base Speed:** 12.00 kts
  - WeatherLimits, Wind:** 8.00 kts
  - Wave:** 4.00 m
  - ☒ add climate data (highlighted with a red circle)
- Voyage Specification:**
  - From Port:** Singapore, 1, 15.0, N, 103, 47.0, E
  - To Port:** Durban, 29, 51.0, S, 31, 01.0, E
  - ETD:** 21/03/2018, 14:58
  - ☒ Route suggestion (highlighted with a red circle)
- Cost Calculation (optional):**
  - Bunker Price, HFO:** \$ / t
  - LSFO:** \$ / t
  - Operation Costs:** \$ / d

Buttons: Ok, Cancel

**Optional:** Insert the actual Draft.

### Attention:

If '**Reference Draft**' and '**Consumption Draft Dependency**' in the consumption profiles is used, then the consumption on this voyage is applied to 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.

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.

### Attention:

If '**Route Suggestion**' is enabled, then the program calculates the best route option between start and end point and applies this route to the new voyage. This process can take several minutes due to initialisation of this tool.

### (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.

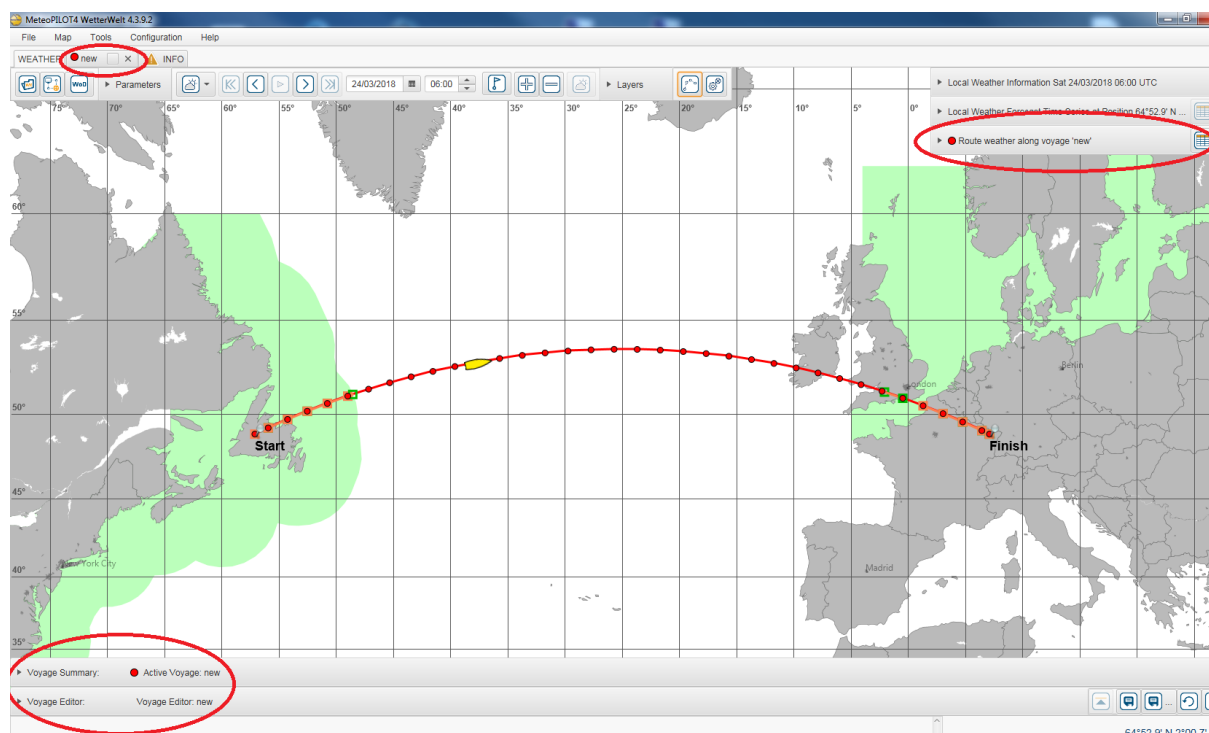
(Weather Limits determine the weather information shown in the 'Voyage Details' and warnings.)

Press '**OK**'.

### 3. Adjust Voyage:

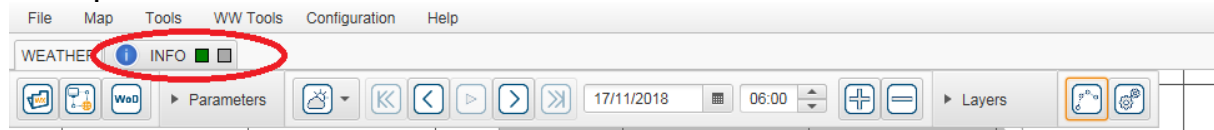
If 'Route Suggestion' has been disabled, then your voyage is now created and loaded.

The route track with 'Start' and 'Finish' waypoint is displayed on the screen

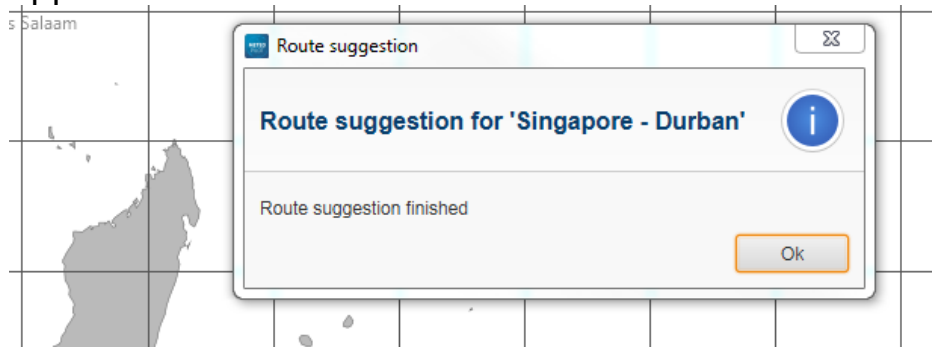


If 'Route Suggestion' has been enabled, then, the program starts with initialisation and calculation of best track.

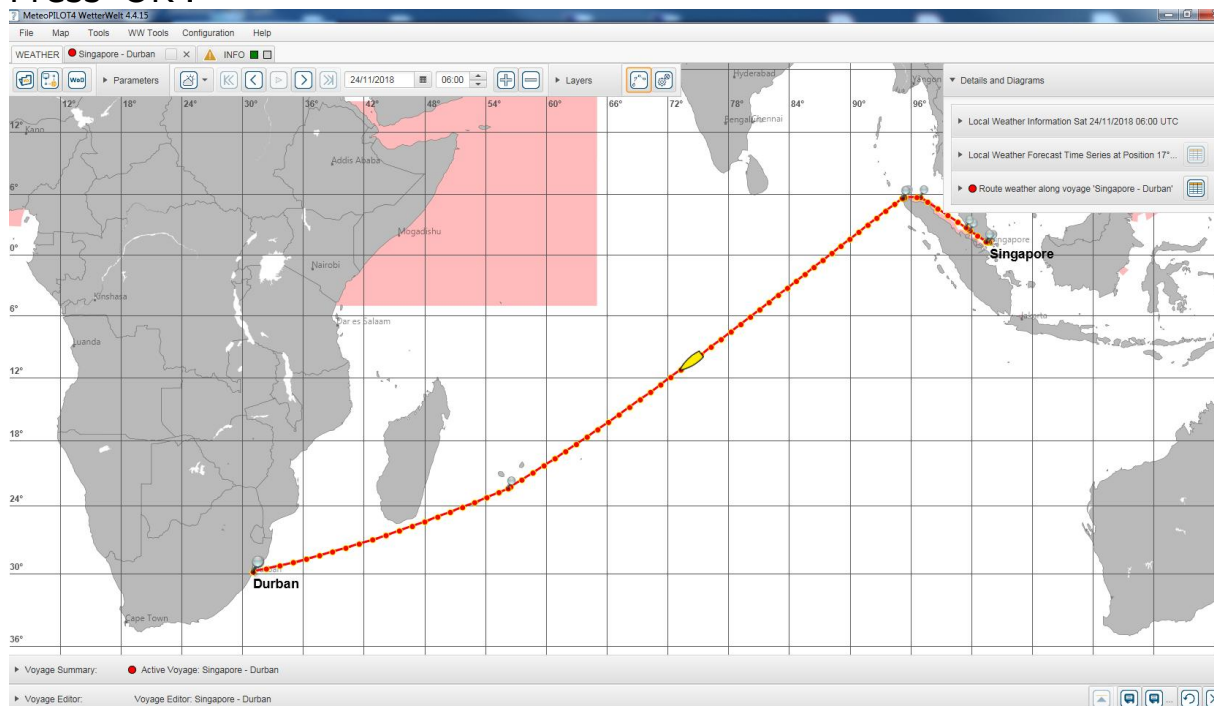
This process is shown in the info tab:



The indicating grey rectangle is blinking as long as the program is busy with calculation. When the process is finished, a dialog window appears:



Press 'OK'.



The route track with suggested route from 'Start' to 'Finish' is displayed on the screen and 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'.

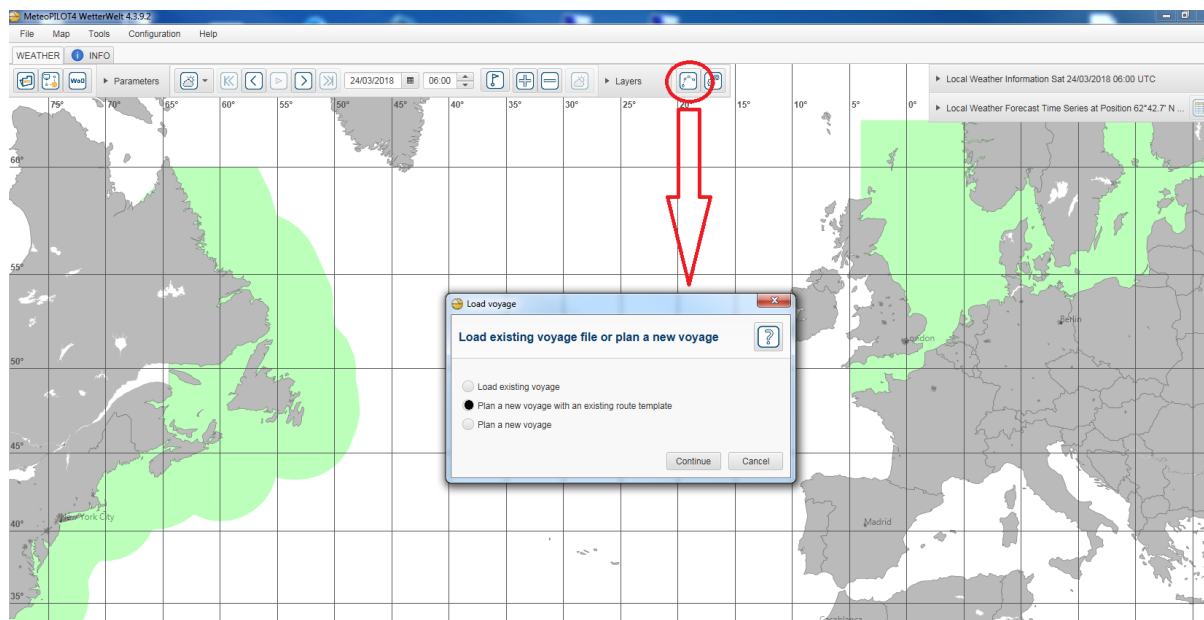
At the bottom of the weather tab the '**Voyage Summary**' and the '**Voyage Editor**' appear (→ see manual 'HowTo\_ManageVoyages')

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

To create a new voyage using an existing route template, click on



the 'voyages' button

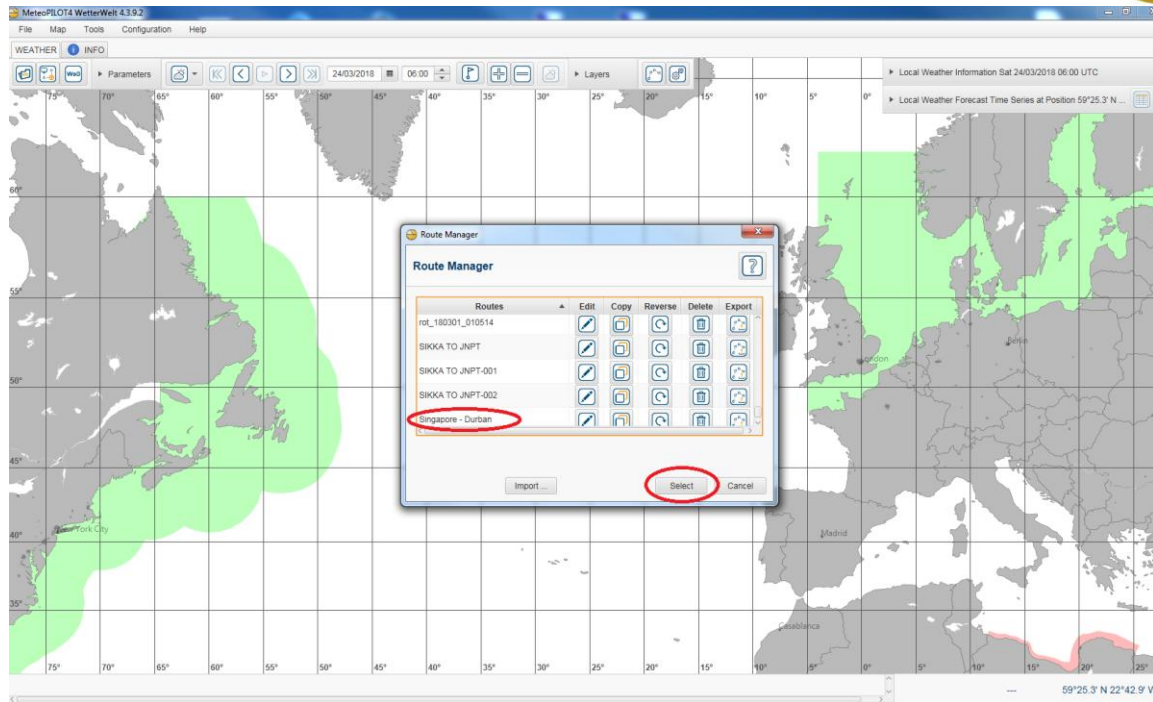


Choose 'Define a new voyage with a new route'



# MANUAL

## HOW TO create new voyages



Select your route template.

If your route has not been saved as a template in the route editor, you can import route files (see manual 'HowTo\_UseRoutes') and select the imported templates afterwards.



# MANUAL

## HOW TO create new voyages



Plan voyage

**Voyage specification:**

Voyage Name: Singapore - Durban

Vessel Specification:

Speed Profile: default

Consumption Profile: default

Draft: 10.00 m

Base Speed: 12.00 kts ☒ add climate data

WeatherLimits, Wind: 8.00 kts Wave: 4.00 m

Voyage Specification:

From Port: Singapore 1 15.0 N 103 47.0 E

To Port: Durban 29 51.0 S 31 01.0 E

ETD: 21/03/2018 14:58 ☒ Route suggestion

Cost Calculation (optional):

Bunker Price, HFO: \$ / t LSFO: \$ / t

Operation Costs: \$ / d

Ok Cancel

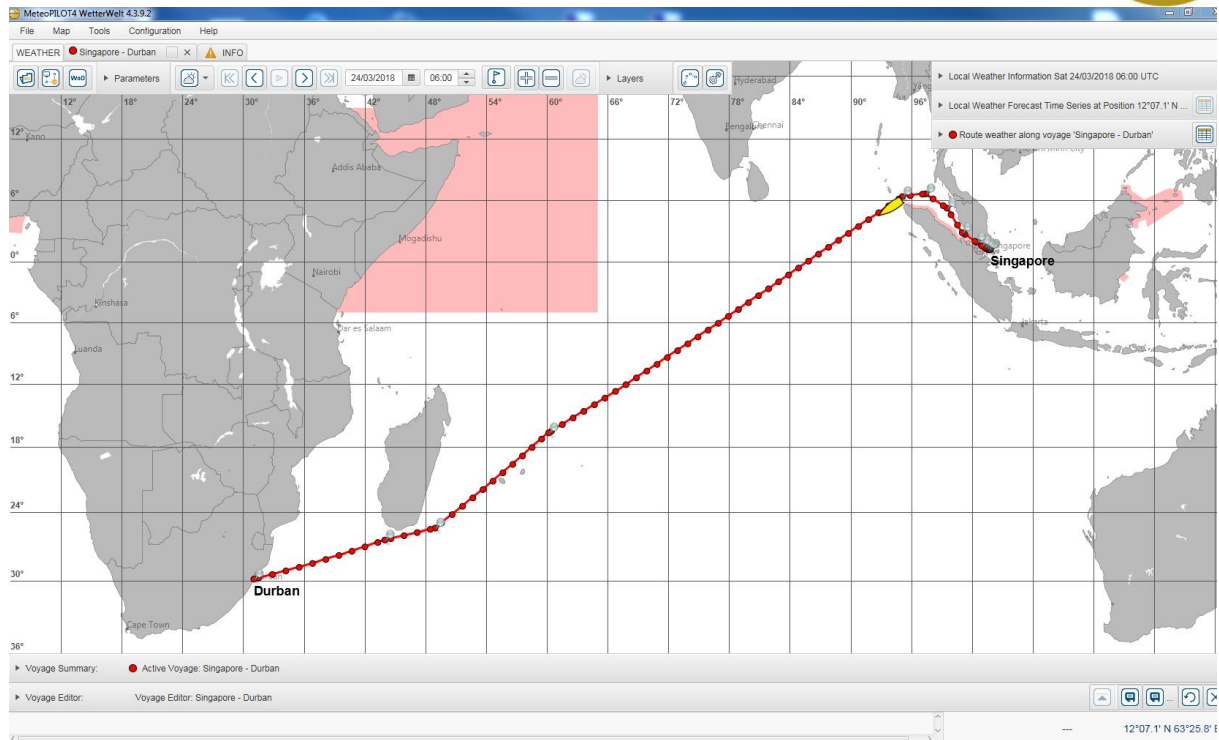
Define your voyage specification (same as in option B)

### Attention:

'Route Suggestion' must be disabled!

# MANUAL

## HOW TO create new voyages



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.

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 still available, but the program considers 'zero weather impact'.

At the bottom of the weather tab the 'Voyage Summary' and the 'Voyage Editor' appear (→ see manual 'HowTo\_ManageVoyages')