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### 1. Voyages:

Voyages are the central element of **METEO** PILOT 4.

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

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.

Any weather data loaded in **METEO** PILOT 4 gets applied to the performance calculation of any single loaded voyage!

### 2. Manage Voyages:

#### (A) Edit Voyages:

Load or Create a new voyage.

Options for loading a voyage or creating a new voyage, please read the manual 'HowTo\_LoadCreateNewVoyages'.

The METEO PILOT 4 loads a voyage/ creates a new voyage:

**Plan voyage**

**Voyage planning specification:**

Voyage Name:

Vessel Specification:

Speed Profile: default    

Consumption Profile: default    

Draft (optional):  m

Base Speed:  kts

Weather Limits, Wind:  kts Wave:  m

Voyage Specification:

From Port:  53° 32.0' N 9° 55.0' E

To Port:  40° 42.0' N 74° 00.0' W

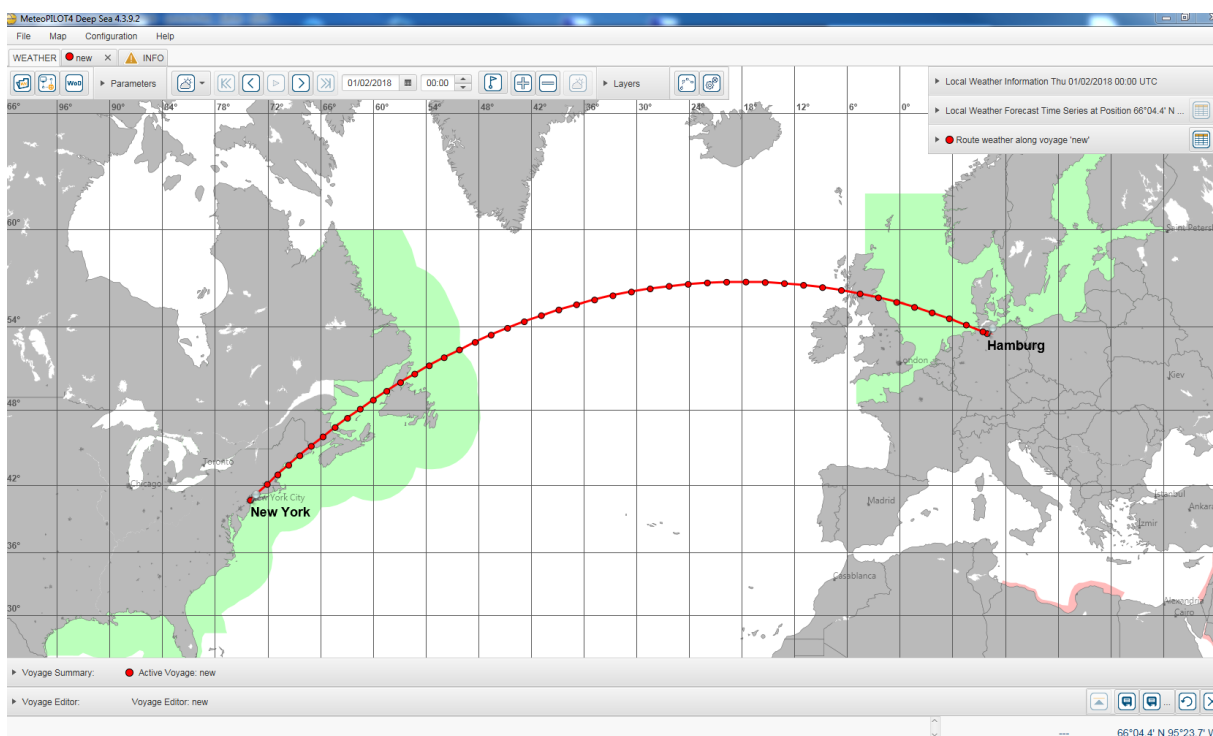
ETD:

Cost Calculation (optional):

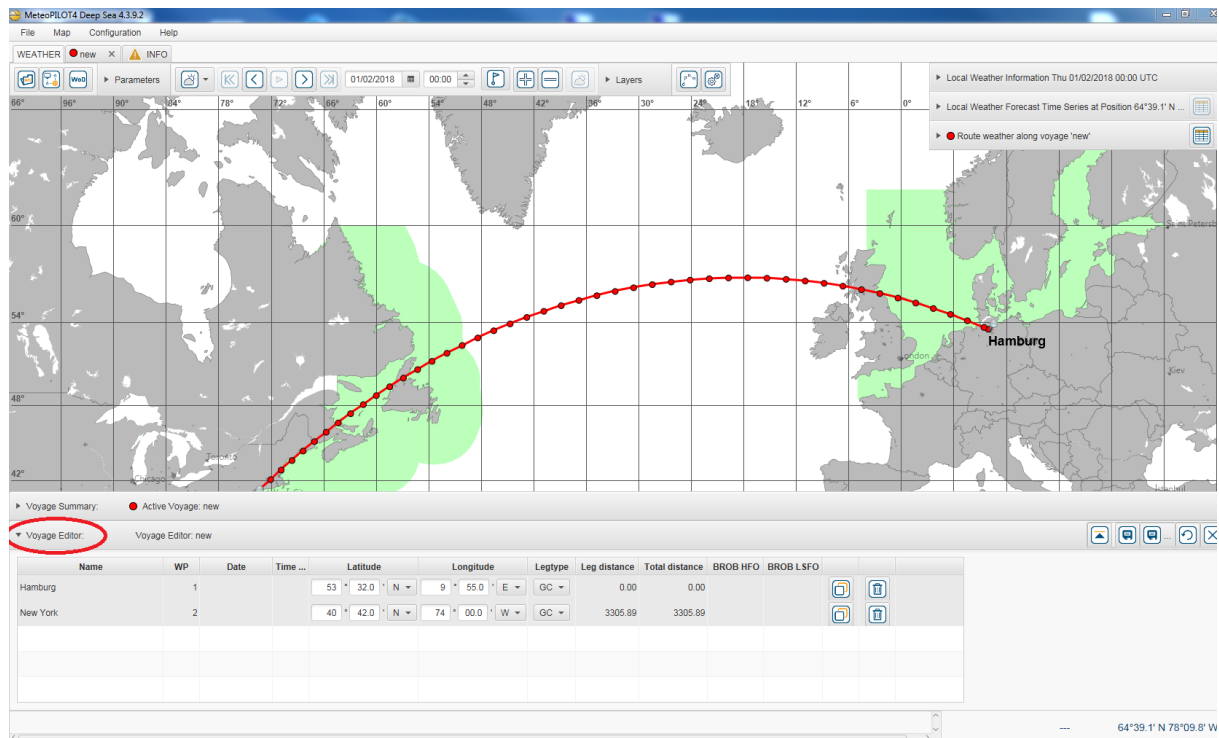
Bunker Price, HFO:  \$ / t LSFO:  \$ / t

Operation Costs:  \$ / d

Ok Cancel



Open the 'Voyage Editor' at the bottom of the weather tab.

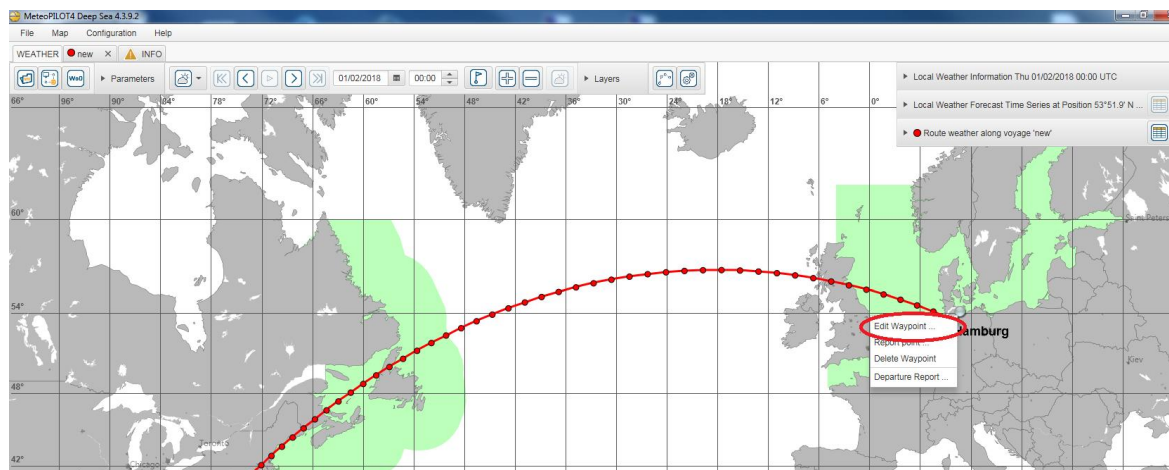


Edit your voyage track. Two Options:

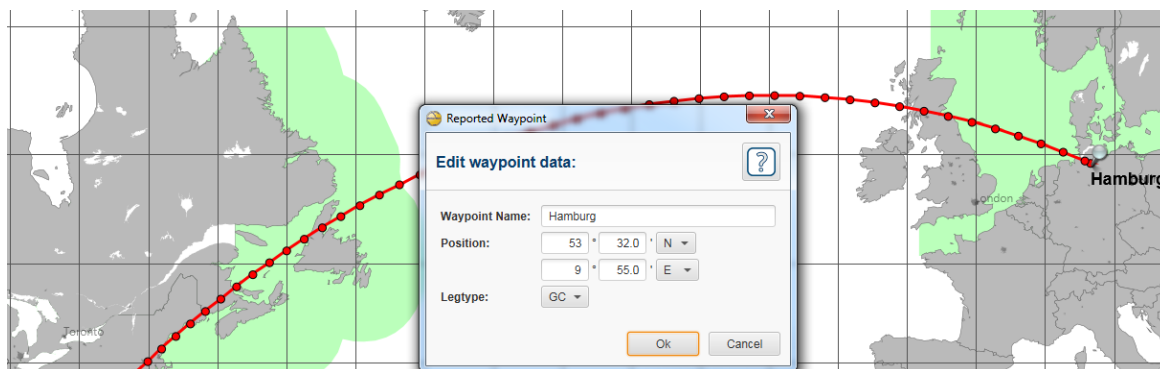
- Edit waypoints in the weather screen
- Edit waypoints in the Voyage Editor

### Edit waypoints:

- right mouse click on the waypoint (grey pin)

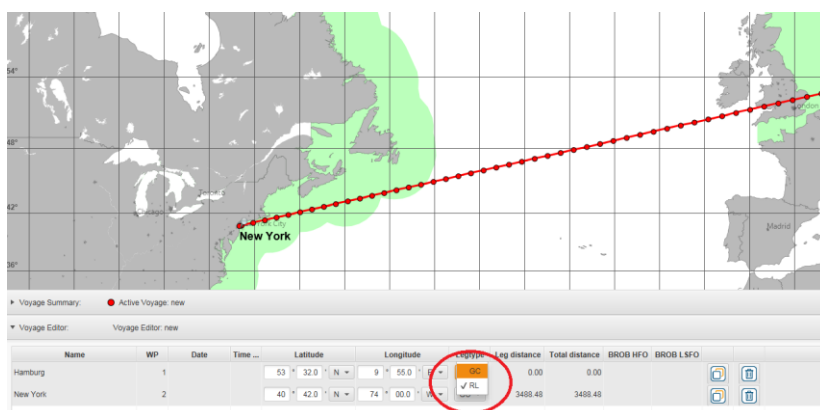


→ Edit Waypoint



→ Change Waypoint Name, Position or Legtype → OK

b) or → edit waypoints in the table of the 'Voyage Editor':



Each cell of

- Name
- Latitude
- Longitude
- Legtype

can be edited by left mouse double click into the cell or left mouse click in the box of choice.

Since Version 4.6 additional Features are available:

- Base Speed (i.e. on each leg you can define a base speed different from the general Base Speed in your Voyage Settings)
- Delay-Time (on each waypoint, you can plan with stoppage (waiting time before Canal transit e.g.)

### Change location of waypoints on the screen:

→ left mouse click on the waypoint

= activate this WP = grey pin is slightly bigger

→ drag the activated WP & drop it to the new location

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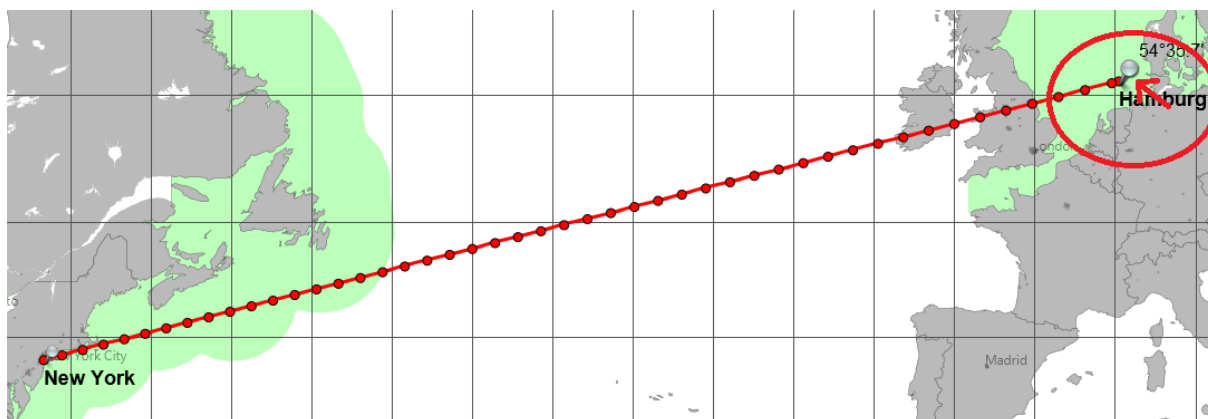
Meteorological Services

routing@wetterwelt.de

Tel: +49 – 431 – 560 66 77

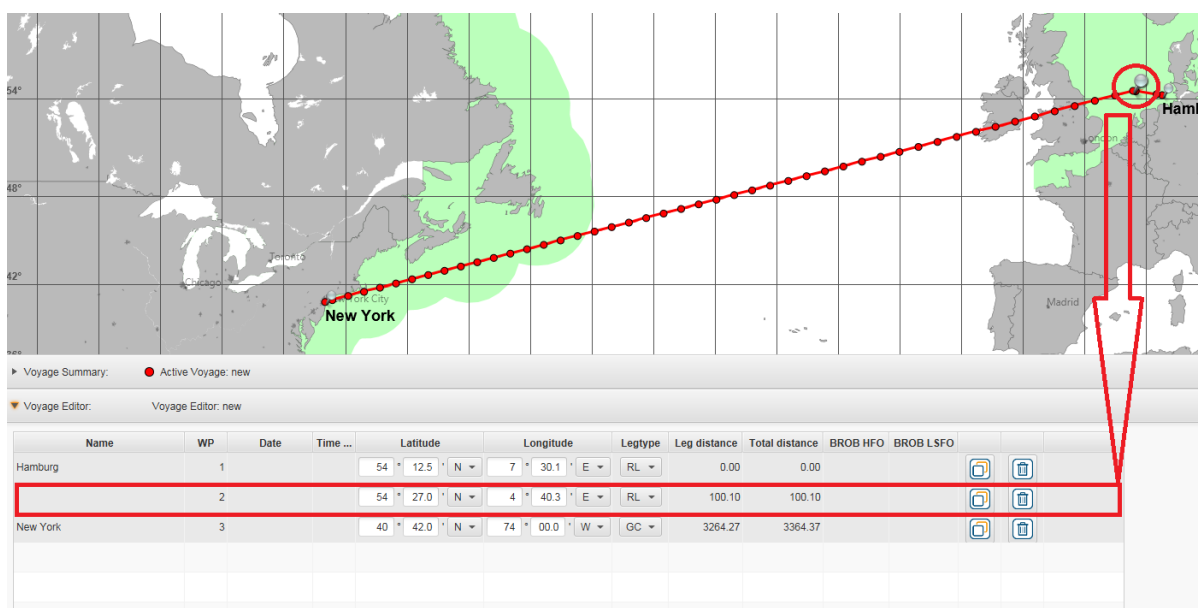
shipping.WetterWelt.de

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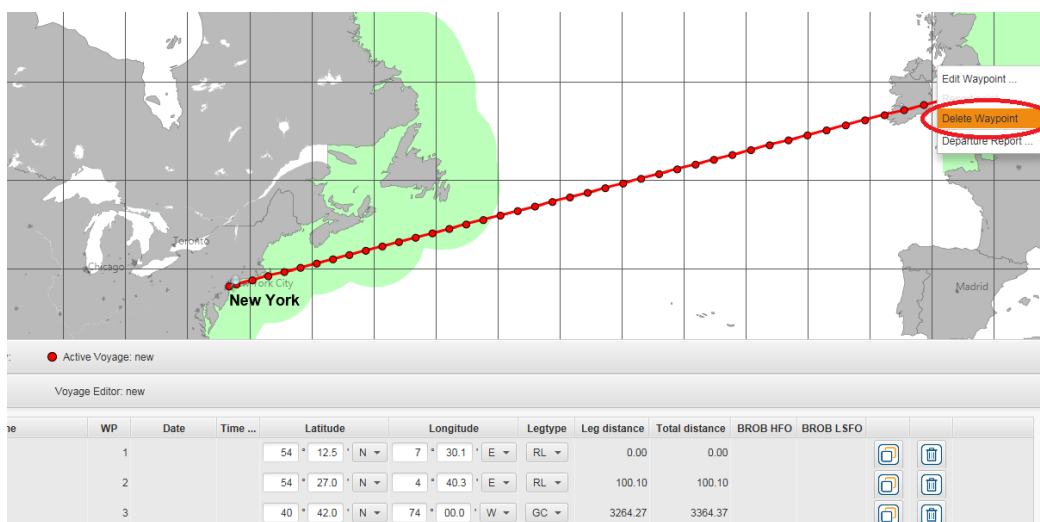
### Add waypoints:

- left mouse click on the waypoint  
= activate this WP = grey pin is slightly bigger
- CTRL + left mouse click on the screen adds a new WP behind the activated WP and adds/activates the new WP in the voyage track and in the 'Voyage Editor' at the location of the mouse click



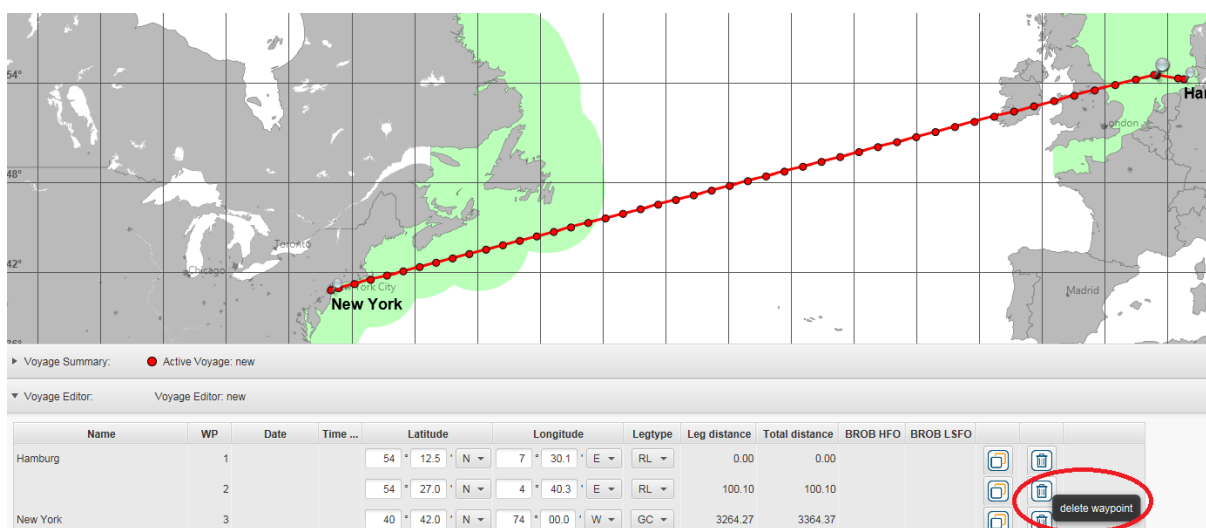
### Delete waypoints:

- a) → right mouse click on the waypoint (grey pin)



→ Delete Waypoint

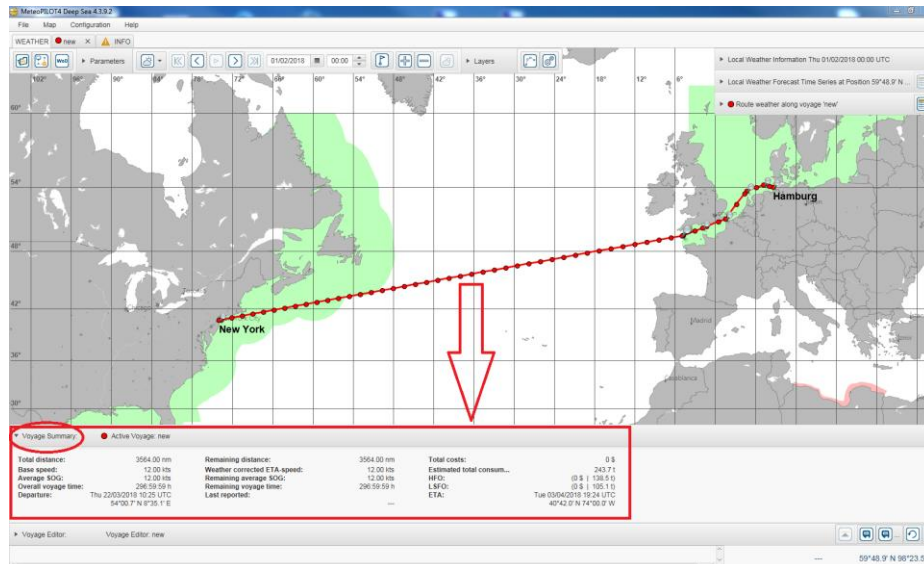
b) Or → delete waypoints in the table of the 'Voyage Editor':



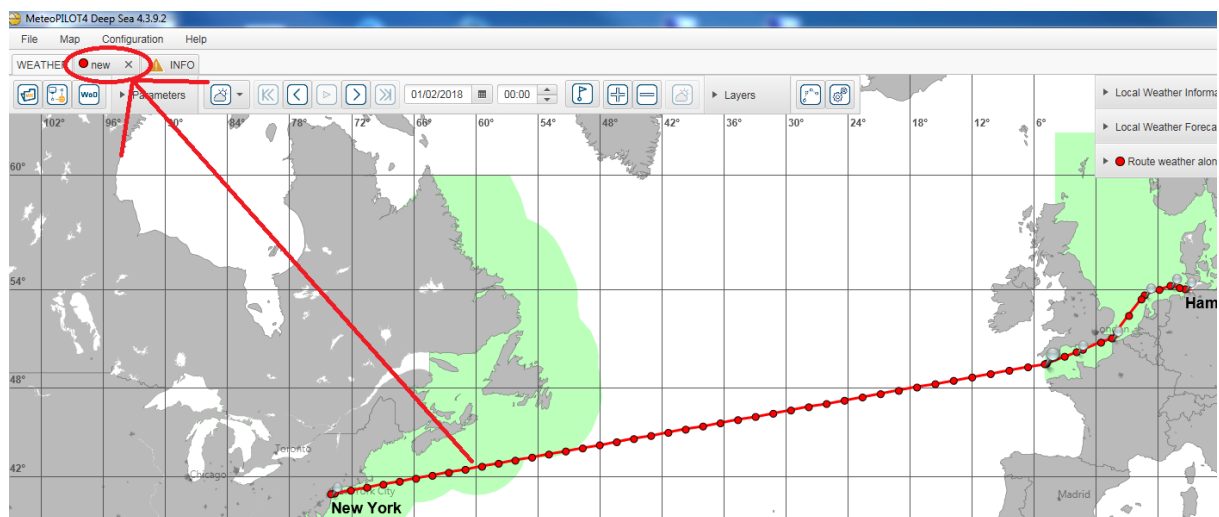
### (B) Voyage Planning:

→ create your entire voyage plan or create a voyage based on a route template

→ see the result of your voyage planning: open the 'Voyage Summary' at the bottom of the weather tab:

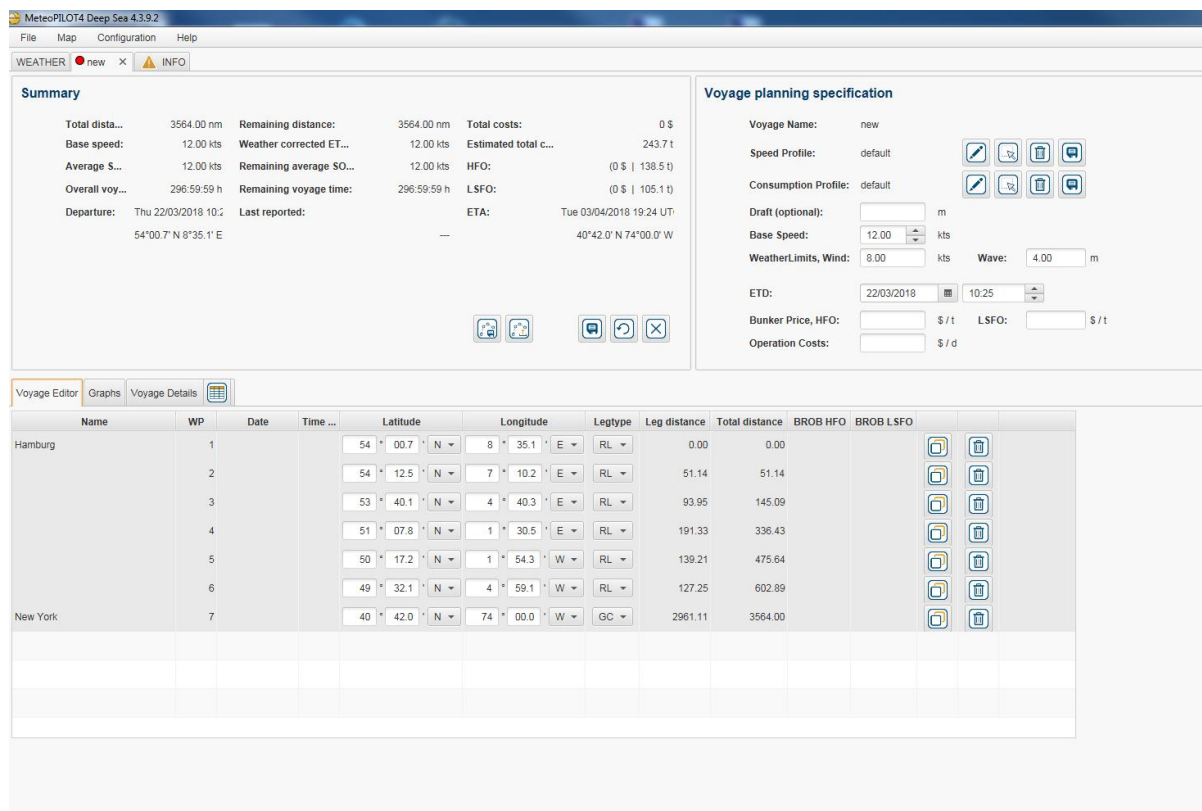


→ or see the result of your voyage planning: go to the associated voyage tab



→ left mouse click on the voyage tab:





The screenshot shows the MeteoPILOT4 Deep Sea 4.3.9.2 software interface. The top menu bar includes File, Map, Configuration, and Help. Below the menu bar, there are tabs for WEATHER (new) and INFO. The main window is divided into two main sections: Summary and Voyage planning specification.

**Summary:**

- Total distance: 3564.00 nm
- Base speed: 12.00 kts
- Average speed: 12.00 kts
- Overall voyage: 296:59:59 h
- Departure: Thu 22/03/2018 10:25
- Remaining distance: 3564.00 nm
- Weather corrected ETA: 12.00 kts
- Remaining average SO: 12.00 kts
- Remaining voyage time: 296:59:59 h
- Last reported: ---
- Total costs: 0 \$
- Estimated total cost: 243.7 t
- HFO: (0 \$ | 138.5 t)
- LSFO: (0 \$ | 105.1 t)
- ETA: Tue 03/04/2018 19:24 UT

**Voyage planning specification:**

- Voyage Name: new
- Speed Profile: default
- Consumption Profile: default
- Draft (optional): m
- Base Speed: 12.00 kts
- Weather Limits, Wind: 8.00 kts
- Wave: 4.00 m
- ETD: 22/03/2018 10:25
- Bunker Price, HFO: \$ / t
- LSFO: \$ / t
- Operation Costs: \$ / d

**Voyage Editor:**

| Name     | WP | Date | Time | Latitude    | Longitude   | Legtype | Leg distance | Total distance | BROB HFO | BROB LSFO |
|----------|----|------|------|-------------|-------------|---------|--------------|----------------|----------|-----------|
| Hamburg  | 1  |      |      | 54° 00.7' N | 8° 35.1' E  | RL      | 0.00         | 0.00           |          |           |
|          | 2  |      |      | 54° 12.5' N | 7° 10.2' E  | RL      | 51.14        | 51.14          |          |           |
|          | 3  |      |      | 53° 40.1' N | 4° 40.3' E  | RL      | 93.95        | 145.09         |          |           |
|          | 4  |      |      | 51° 07.8' N | 1° 30.5' E  | RL      | 191.33       | 336.43         |          |           |
|          | 5  |      |      | 50° 17.2' N | 1° 54.3' W  | RL      | 139.21       | 475.64         |          |           |
|          | 6  |      |      | 49° 32.1' N | 4° 59.1' W  | RL      | 127.25       | 602.89         |          |           |
| New York | 7  |      |      | 40° 42.0' N | 74° 00.0' W | GC      | 2961.11      | 3564.00        |          |           |

### Voyage TAB:

Upper left side: shows the same 'voyage summary' as shown in the weather tab

Upper right side: 'Voyage specification'; here you can change / amend the basic inputs for the voyage:

Lower side: three information tabs:

- Voyage Editor: same 'voyage editor' as shown in the weather tab
- Graphs: route weather and calculated speed performance information
- Voyage Details: table of voyage information with a list for time / position / leg information and calculated weather information based on the loaded weather data

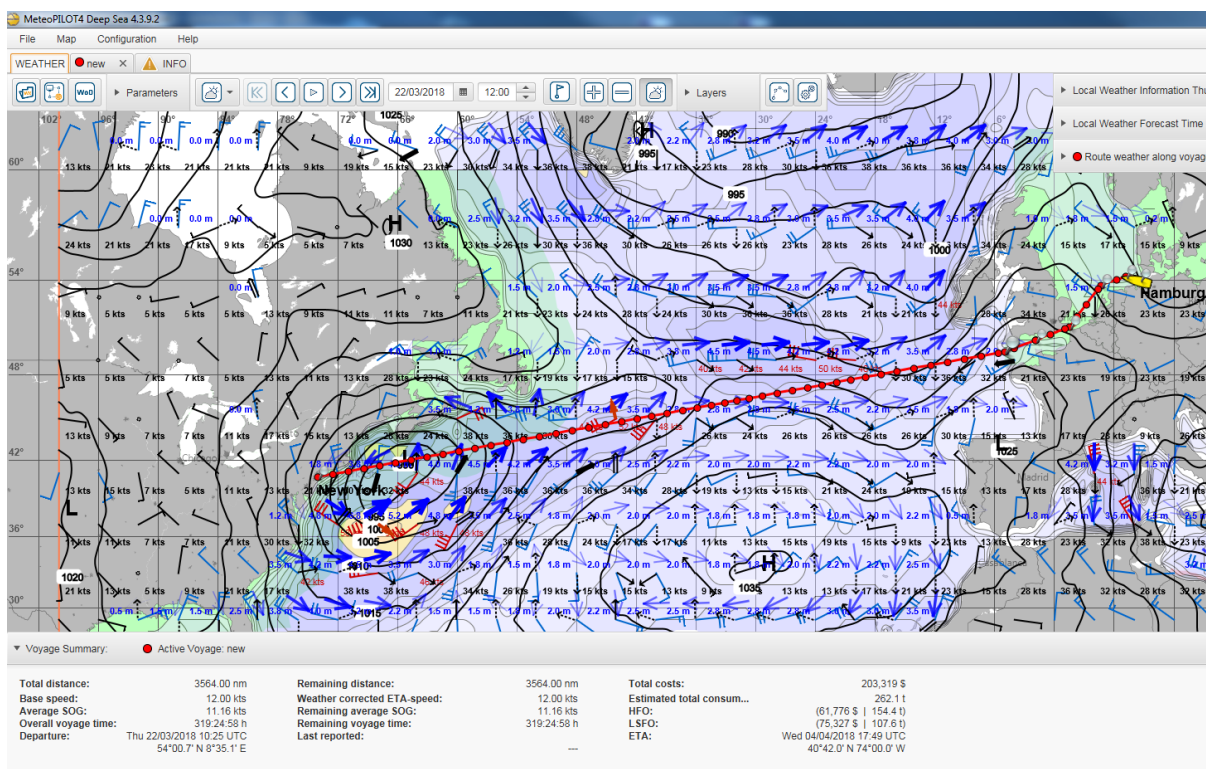
### Attention:

When no weather data files are loaded, the weather information enroute and the effect of local weather impact to the vessel is 'zero'! Please take care to always load daily updated weather data into METEO PILOT, when weather effect shall be taken into consideration!



→ load the latest daily updated weather file with maximum coverage of the sailing area and passage time (please read the manuals 'HowtoRequestWeatherData' and 'HowTo\_LoadandDisplayWeather')

Now the voyage is connected with the latest weather forecast and local weather impact to the vessel enroute is calculated based on the forecasted weather conditions. The vessel performance is calculated based on the information of 'speed profile' and the 'consumption profile' that is subject to this voyage. The profiles for the specific voyage can be edited / changed in the 'voyage Tab → 'voyage specification'.



### Some information on the voyage track:

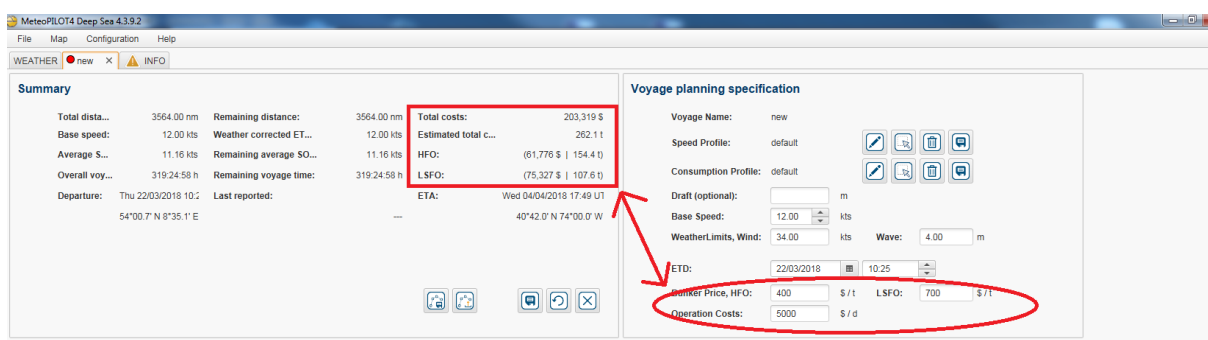
- the display of the vessel symbol is in accordance with the calculated location at the displayed time step
- jumping in the displayed time changes the display of the vessel position and the associated weather pattern
- there are dots on the voyage tracks. They mark the calculated 6-hrly position of the vessel at 00, 06, 12, 18 UTC
- if the distance between the dots is small, the vessel is calculated to proceed with slow speed over ground (and v.v.)

## HOW TO manage / optimize voyages in MP4

- left mouse click on a dot makes the program jump to the associated time-step in the display
- the proceeding of the vessel within the weather conditions can be analysed by clicking (a) on the time navigation button at the top of the weather tab (step back/forward or play)

### Some information on the voyage summary:

- the voyage summary shows the recent status of the voyage in connection with the currently loaded weather file and the used speed and consumption profiles in this voyage
- the ETS is based on the initially given ETS in the voyage creation. It can be changed in the voyage specifications.
- the Base Speed (= instructed / planned speed without weather impact = constant engine load) is based on the initially given ETS in the voyage creation. It can be changed in the voyage specification.
- the ETA calculation is based on the speed profile, the current weather file (=forecasted local weather impact) and the base speed.
- the total consumption is based on the ETA calculation, base speed and the loaded consumption profile
- the calculation of HFO / LSFO consumption is based on the calculated passage time outside/inside ECA areas, the base speed and the consumption profile
- if Bunker Price and Operation Costs are inserted in the voyage specification, the program calculates the voyage costs accordingly



- go to Voyage tab → Voyage Planning and insert your values

Any amendment of the voyage specification changes the output in the voyage summary.

The closer your specifications (i.e. profiles) are to real vessel performance the more accurate is the output in the voyage summary!



The screenshot shows the MeteoPOT4 Deep Sea 4.3.92 software interface. The main window displays a weather map of the Atlantic Ocean, showing various weather systems and a red voyage route. The interface includes a top menu bar, a toolbar, and a bottom status bar. A 'Voyage Summary' panel is visible on the left, and a 'Voyage Editor' panel is on the right. The map shows pressure, wind, and wave data. The voyage route is marked with a red line and a red dot indicating the active voyage.

**Voyage Summary:**

- Active Voyage: new
- Total distance: 3564.00 nm
- Base speed: 12.00 kts
- Average SOG: 11.16 kts
- Overall voyage time: 319.24.58 h
- Departure: Thu 22/03/2018 10:25 UTC, 54°00' N 13°31' E

**Voyage Editor:**

- Voyage: new
- Remaining distance: 3564.00 nm
- Weather corrected ETA speed: 12.00 kts
- Remaining average SOG: 11.16 kts
- Remaining voyage time: 319.24.58 h
- Last reported: —
- Total costs: 203,319 \$
- Estimated total consum.: 151,776 \$ / 154,614 \$
- LFO: 75,327 \$ / 107,610 \$
- ETA: Wind 04/03/2018 17:49 UTC, 60°42' N 74°20' W

The map shows a red voyage route starting from the bottom left and moving towards the top right. The map includes various weather systems and a red dot indicating the active voyage. The bottom status bar shows the current date and time: 62°48' N 22°28' W.

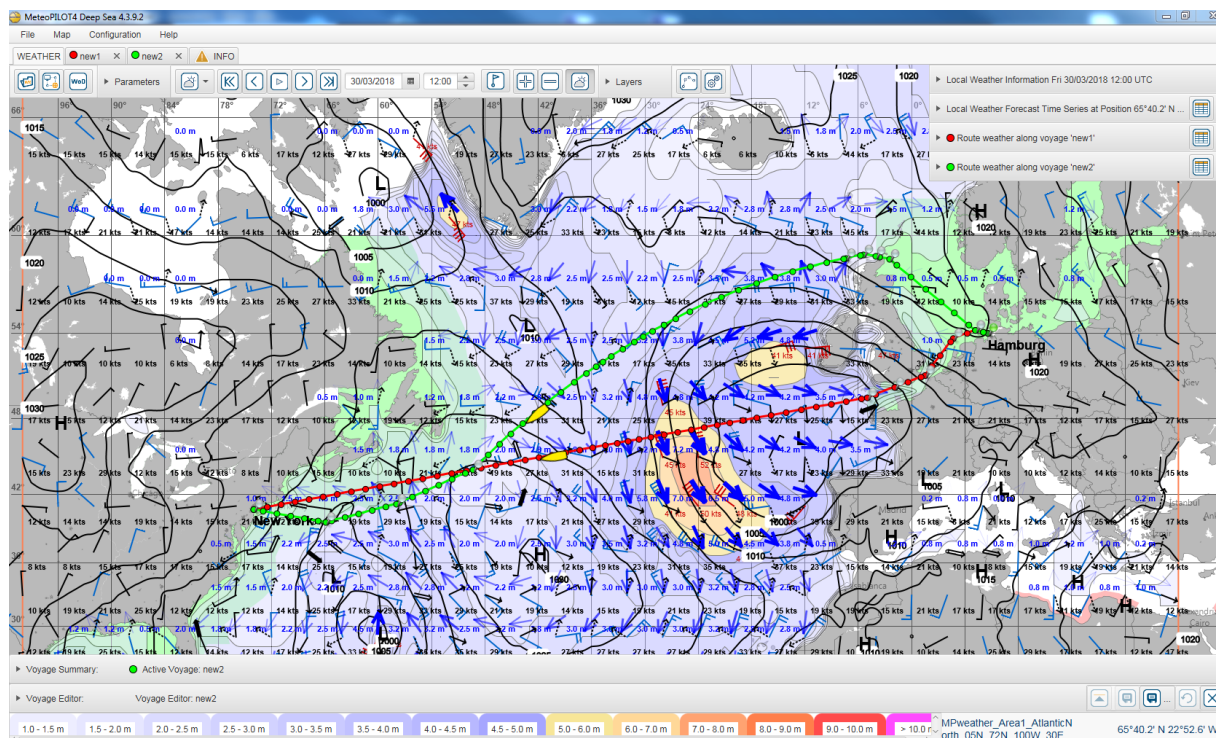


→ save your voyage file as... a json-file ('new2.json' e.g.) in your file system

→ load existing voyages via 'voyages'-button



→ load both voyages into **METEO** PILOT 4:



Both voyages are loaded and displayed at the same time

→ compare the Voyage Summaries and the ETA / costs for both voyage tracks and decide, which route may be the more beneficial track

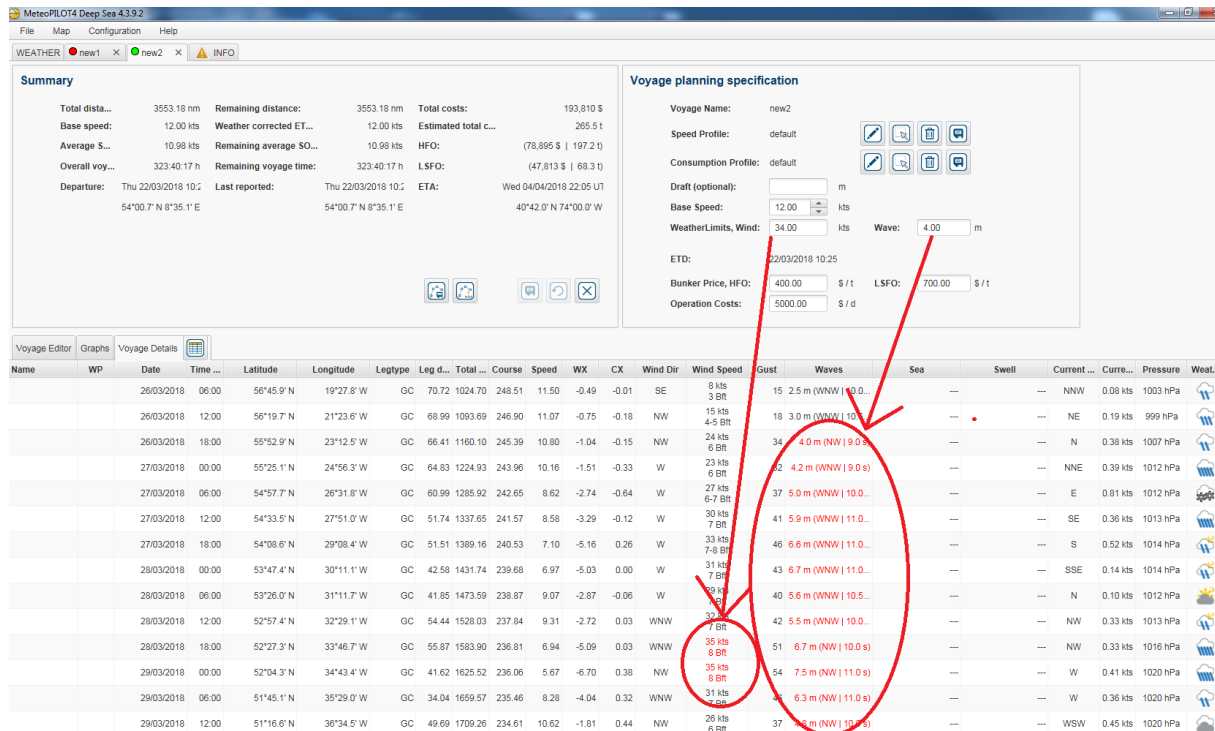
→ check weather enroute for safety reason:

(a) Voyage tab → Graphs

(b) Voyage tab → voyage details

Safety limits can be defined as user settings.

They are applied to all voyages as default setting, but can be amended within each voyage via the voyage specification.



**Summary**

|                |                                              |                         |                                              |                      |                                                  |
|----------------|----------------------------------------------|-------------------------|----------------------------------------------|----------------------|--------------------------------------------------|
| Total dista... | 3553.18 nm                                   | Remaining distance:     | 3553.18 nm                                   | Total costs:         | 193.810 \$                                       |
| Base speed:    | 12.00 kts                                    | Weather corrected ET... | 12.00 kts                                    | Estimated total c... | 265.5 t                                          |
| Average S...   | 10.98 kts                                    | Remaining average SO... | 10.98 kts                                    | HFO:                 | (78.895 \$   197.2 t)                            |
| Overall voy... | 323.40.17 h                                  | Remaining voyage time:  | 323.40.17 h                                  | LSFO:                | (47.813 \$   68.3 t)                             |
| Departure:     | Thu 22/03/2018 10:02<br>54°00.7' N 8°35.1' E | Last reported:          | Thu 22/03/2018 10:02<br>54°00.7' N 8°35.1' E | ETA:                 | Wed 04/04/2018 22:05 UT<br>40°42.0' N 74°00.0' W |

**Voyage planning specification**

Voyage Name: new2

Speed Profile: default

Consumption Profile: default

Draft (optional): m

Base Speed: 12.00 kts

Weather Limits, Wind: 34.00 kts Wave: 4.00 m

ETD: 22/03/2018 10:02

Bunker Price, HFO: 400.00 \$ / t LSF0: 700.00 \$ / t

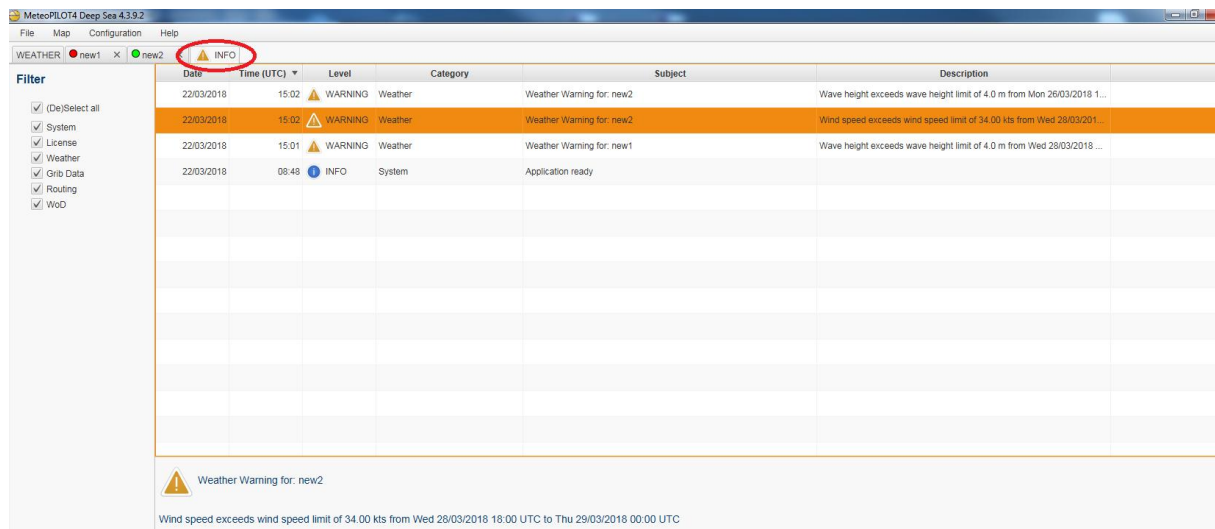
Operation Costs: 5000.00 \$ / d

**Voyage Details**

| Name | WP | Date       | Time  | Latitude   | Longitude  | Leg type | Leg d. | Total   | Course | Speed | WX    | CX    | Wind Dir | Wind Speed | Gust | Waves                | Sea | Swell | Current | Current  | Pressure | Weather |
|------|----|------------|-------|------------|------------|----------|--------|---------|--------|-------|-------|-------|----------|------------|------|----------------------|-----|-------|---------|----------|----------|---------|
|      |    | 26/03/2018 | 06:00 | 56°45.9' N | 19°27.8' W | GC       | 70.72  | 1024.70 | 248.51 | 11.50 | -0.49 | -0.01 | SE       | 8 kts      | 15   | 2.5 m (WNW   10.0 s) | --- | ---   | NW      | 0.08 kts | 1003 hPa |         |
|      |    | 26/03/2018 | 12:00 | 56°19.7' N | 21°23.6' W | GC       | 68.99  | 1093.69 | 246.90 | 11.07 | -0.75 | -0.18 | NW       | 15 kts     | 18   | 3.0 m (WNW   10.0 s) | --- | ---   | NE      | 0.19 kts | 999 hPa  |         |
|      |    | 26/03/2018 | 18:00 | 55°52.9' N | 23°12.5' W | GC       | 66.41  | 1160.10 | 245.39 | 10.80 | -1.04 | -0.15 | NW       | 24 kts     | 34   | 4.0 m (WNW   9.0 s)  | --- | ---   | N       | 0.38 kts | 1007 hPa |         |
|      |    | 27/03/2018 | 00:00 | 55°25.1' N | 24°56.3' W | GC       | 64.83  | 1224.93 | 243.96 | 10.16 | -1.51 | -0.33 | W        | 23 kts     | 52   | 4.2 m (WNW   9.0 s)  | --- | ---   | NNE     | 0.39 kts | 1012 hPa |         |
|      |    | 27/03/2018 | 06:00 | 54°57.7' N | 26°31.8' W | GC       | 60.99  | 1285.92 | 242.65 | 8.62  | -2.74 | -0.64 | W        | 27 kts     | 37   | 5.0 m (WNW   10.0 s) | --- | ---   | E       | 0.81 kts | 1012 hPa |         |
|      |    | 27/03/2018 | 12:00 | 54°33.5' N | 27°51.0' W | GC       | 51.74  | 1337.65 | 241.57 | 8.58  | -3.29 | -0.12 | W        | 33 kts     | 41   | 5.9 m (WNW   11.0 s) | --- | ---   | SE      | 0.36 kts | 1013 hPa |         |
|      |    | 27/03/2018 | 18:00 | 54°08.6' N | 29°08.4' W | GC       | 51.51  | 1389.16 | 240.53 | 7.10  | -5.16 | 0.26  | W        | 33 kts     | 46   | 6.6 m (WNW   11.0 s) | --- | ---   | S       | 0.52 kts | 1014 hPa |         |
|      |    | 28/03/2018 | 00:00 | 53°47.4' N | 30°11.1' W | GC       | 42.58  | 1431.74 | 239.68 | 6.97  | -5.03 | 0.00  | W        | 31 kts     | 43   | 6.7 m (WNW   11.0 s) | --- | ---   | SSE     | 0.14 kts | 1014 hPa |         |
|      |    | 28/03/2018 | 06:00 | 53°26.0' N | 31°11.7' W | GC       | 41.85  | 1473.59 | 238.87 | 9.07  | -2.87 | -0.06 | W        | 31 kts     | 40   | 5.6 m (WNW   10.5 s) | --- | ---   | N       | 0.10 kts | 1012 hPa |         |
|      |    | 28/03/2018 | 12:00 | 52°57.4' N | 32°29.1' W | GC       | 54.44  | 1528.03 | 237.84 | 9.31  | -2.72 | 0.03  | WNW      | 31 kts     | 42   | 5.5 m (WNW   10.0 s) | --- | ---   | NW      | 0.33 kts | 1013 hPa |         |
|      |    | 28/03/2018 | 18:00 | 52°27.3' N | 33°46.7' W | GC       | 55.87  | 1583.90 | 236.81 | 6.94  | -5.09 | 0.03  | WNW      | 35 kts     | 51   | 6.7 m (WNW   10.0 s) | --- | ---   | NW      | 0.33 kts | 1016 hPa |         |
|      |    | 29/03/2018 | 00:00 | 52°04.3' N | 34°43.4' W | GC       | 41.62  | 1625.52 | 236.06 | 5.67  | -6.70 | 0.38  | NW       | 35 kts     | 54   | 7.5 m (WNW   11.0 s) | --- | ---   | W       | 0.41 kts | 1020 hPa |         |
|      |    | 29/03/2018 | 06:00 | 51°45.1' N | 35°29.0' W | GC       | 34.04  | 1659.57 | 235.46 | 8.28  | -4.04 | 0.32  | WNW      | 31 kts     | 45   | 6.3 m (WNW   11.0 s) | --- | ---   | W       | 0.36 kts | 1020 hPa |         |
|      |    | 29/03/2018 | 12:00 | 51°16.6' N | 36°34.5' W | GC       | 49.69  | 1709.26 | 234.61 | 10.62 | -1.81 | 0.44  | NW       | 26 kts     | 37   | 5.4 m (WNW   10.5 s) | --- | ---   | WSW     | 0.45 kts | 1020 hPa |         |

If safety limits are exceeded enroute, the 'Voyage Details' show the values in **red**.

The info tab shows a 'warning symbol' and lists a weather warning for this particular event:



**Filter**

- (De)Select all
- System
- License
- Weather
- Grib Data
- Routing
- Woo

| Date       | Time (UTC) | Level   | Category | Subject                   | Description                                                             |
|------------|------------|---------|----------|---------------------------|-------------------------------------------------------------------------|
| 22/03/2018 | 15:02      | WARNING | Weather  | Weather Warning for: new2 | Wave height exceeds wave height limit of 4.0 m from Mon 26/03/2018 1... |
| 22/03/2018 | 15:02      | WARNING | Weather  | Weather Warning for: new2 | Wind speed exceeds wind speed limit of 34.00 kts from Wed 28/03/201...  |
| 22/03/2018 | 15:01      | WARNING | Weather  | Weather Warning for: new1 | Wave height exceeds wave height limit of 4.0 m from Wed 28/03/2018 ...  |
| 22/03/2018 | 08:48      | INFO    | System   | Application ready         |                                                                         |

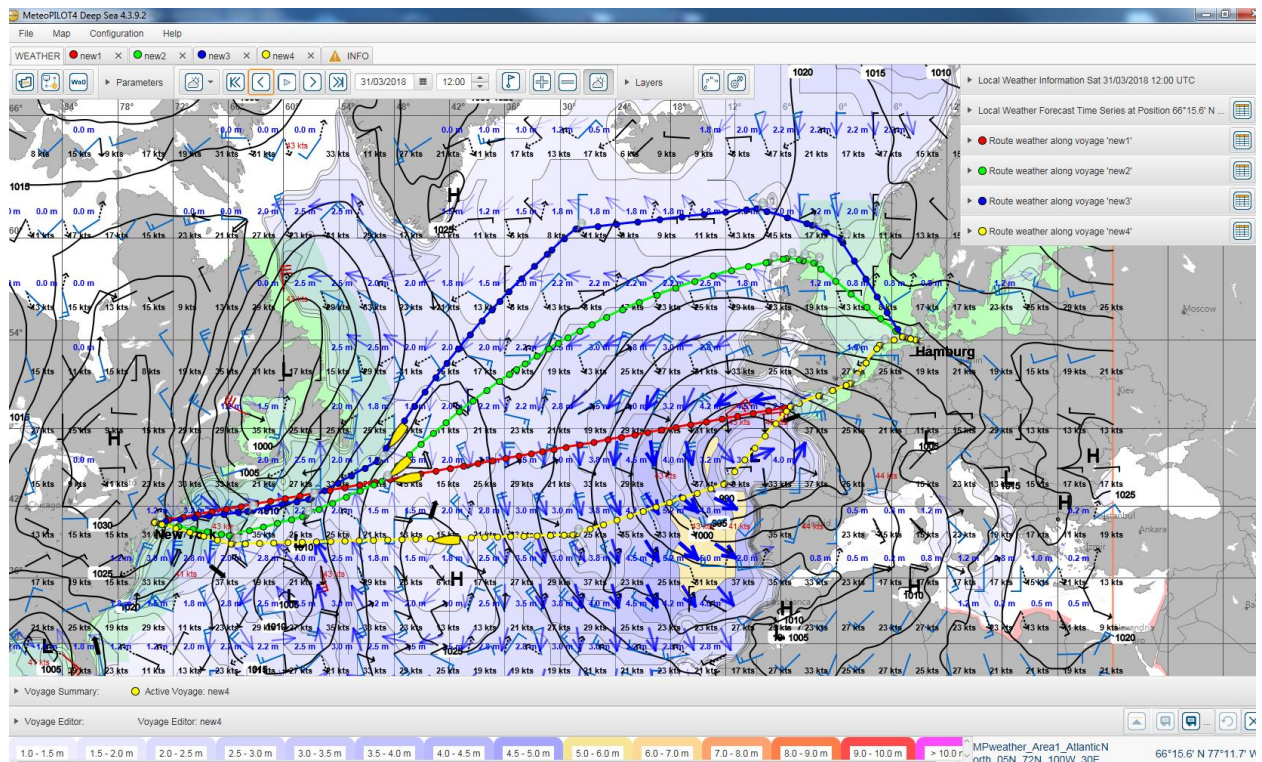
**Weather Warning for: new2**

Wind speed exceeds wind speed limit of 34.00 kts from Wed 28/03/2018 18:00 UTC to Thu 29/03/2018 00:00 UTC

For checking best route option, you can create many different voyages and load / compare them at the same time:

# MANUAL

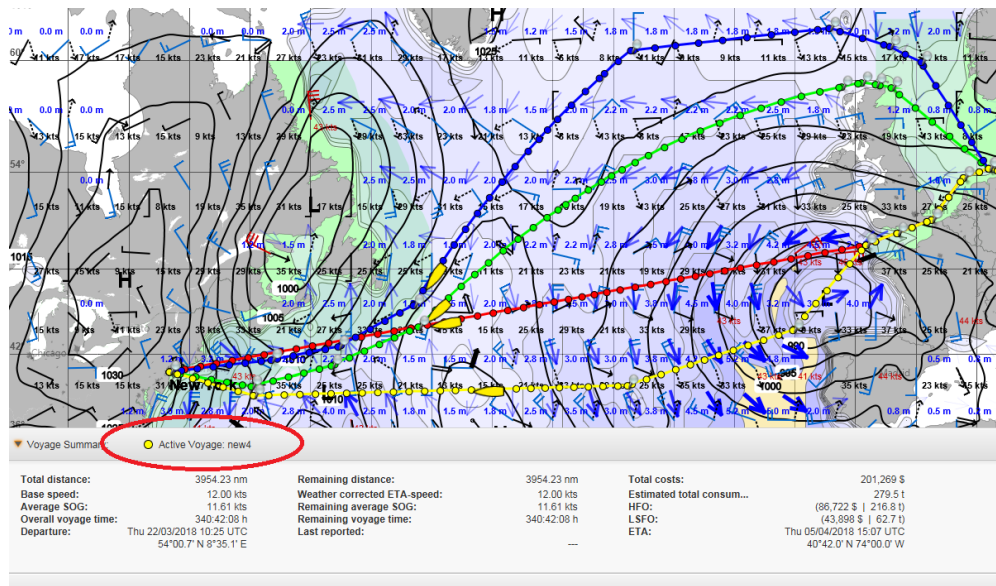
## HOW TO manage / optimize voyages in MP4



### Attention:

To activate a voyage in the weather tab, you must click on any waypoint of its voyage track.

The Voyage Summary and the Voyage Editor displayed in the weather tab always belong to the activated voyage! Take care!





### (D) Voyage Optimisation:

Voyage optimisation can be done in **METEO PILOT 4** at any time, when a voyage is loaded, the program offers the possibility to

- (a) Optimize time
- (b) Optimize costs

#### Time optimization:

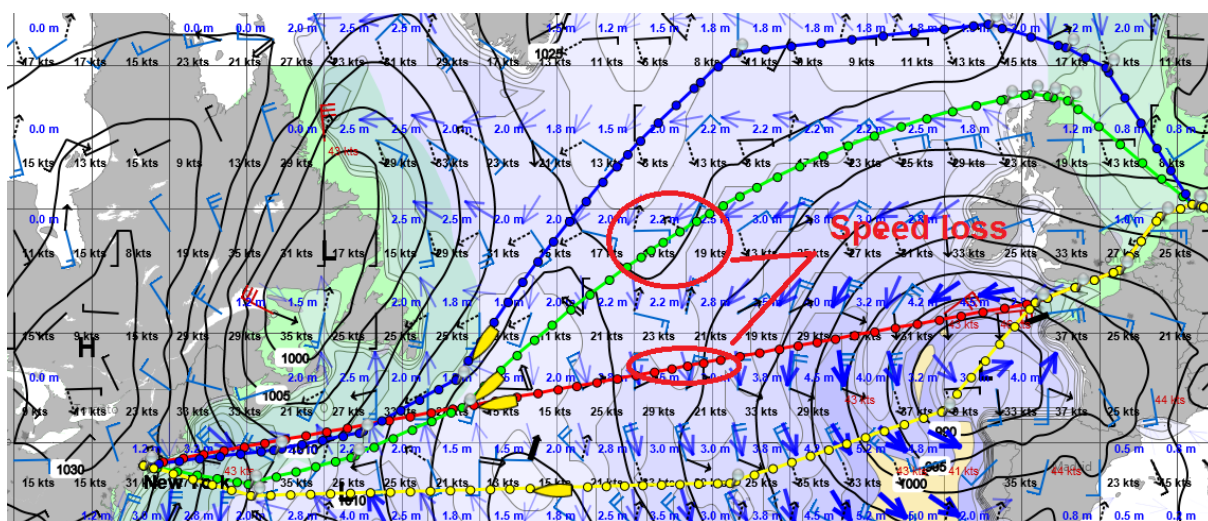
- load the latest and most suitable weather forecast file, covering the maximum of the sailing area and passage time
- load/activate the voyage of interest in your weather screen
- open the 'Voyage summary' at the bottom of the weather tab
- insert / delete / change waypoints of the voyage track
- and check ETA in the voyage summary

If ETA improves, the (remaining) sailing time is reduced.  
If ETA delays, the (remaining) sailing time grows.

You can finetune the voyage track by manual edition of Latitude / longitude of a waypoint. Check the ETA with each change. Once you find minimum sailing time, you have created your optimum track.

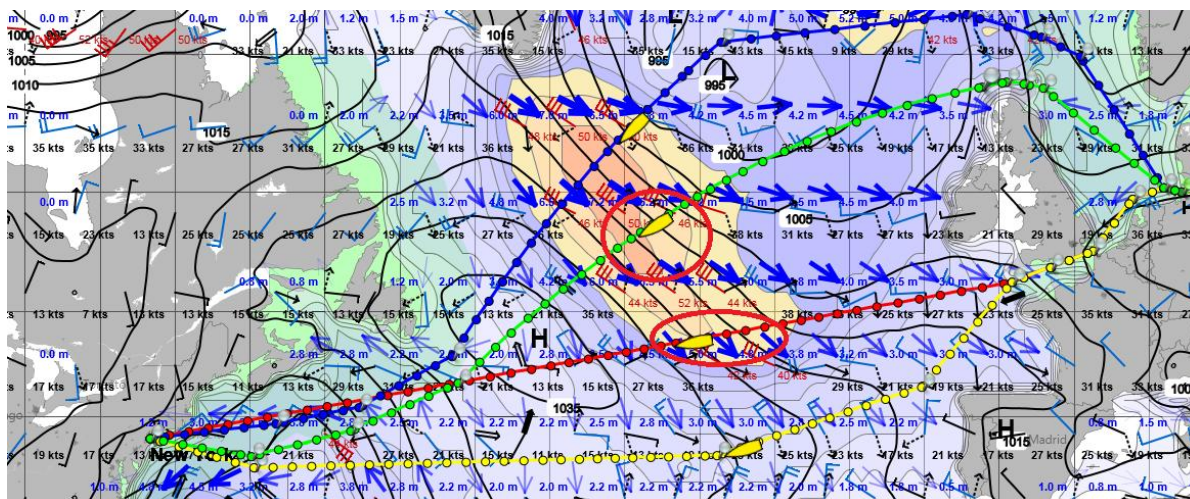
#### Attention:

The density of dots along the voyage track show the calculated speed over ground. If the distance between dots reduces, it is a hint for speed loss and may indicate either heavy weather or strong counter currents.



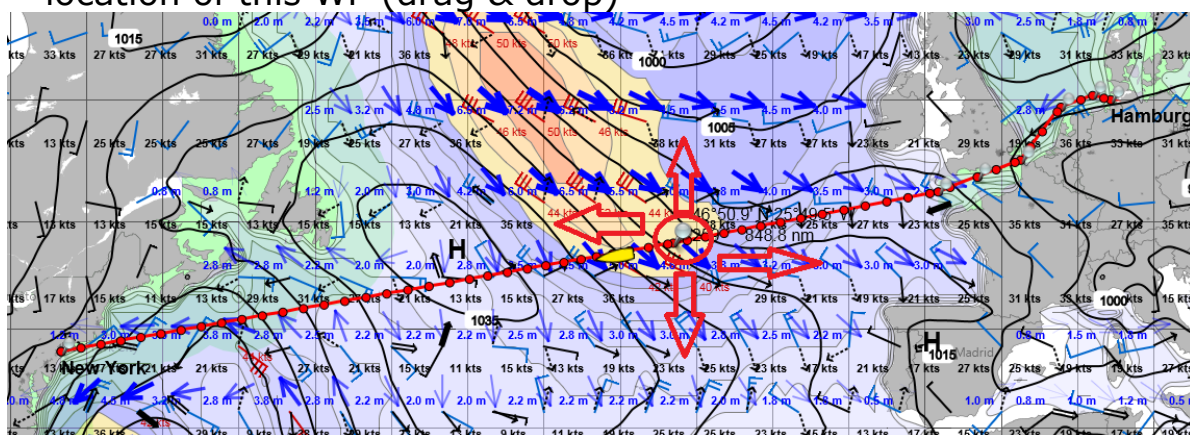
→ go to the according time step and check the situation:





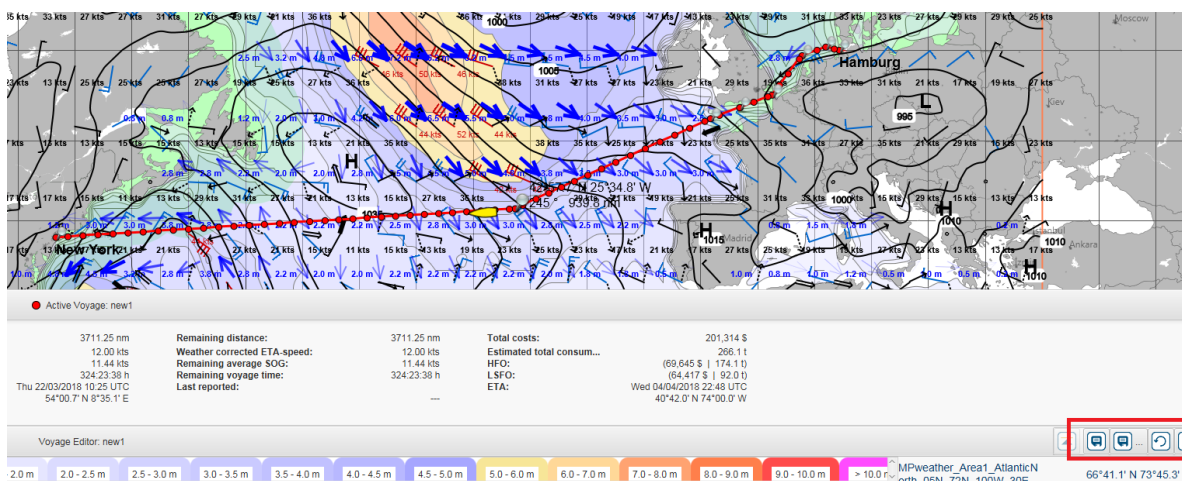
→ activate the preceding waypoint in this voyage

→ and add a new waypoint (CTRL+left mouse click) and change the location of this WP (drag & drop)



→ amend your voyage track as necessary for keeping vsl in safe weather conditions and / or improve ETA time

→ finalize your changes in route planning for this voyage with saving the voyage file or restore your route to the latest saved status



### Cost optimization:

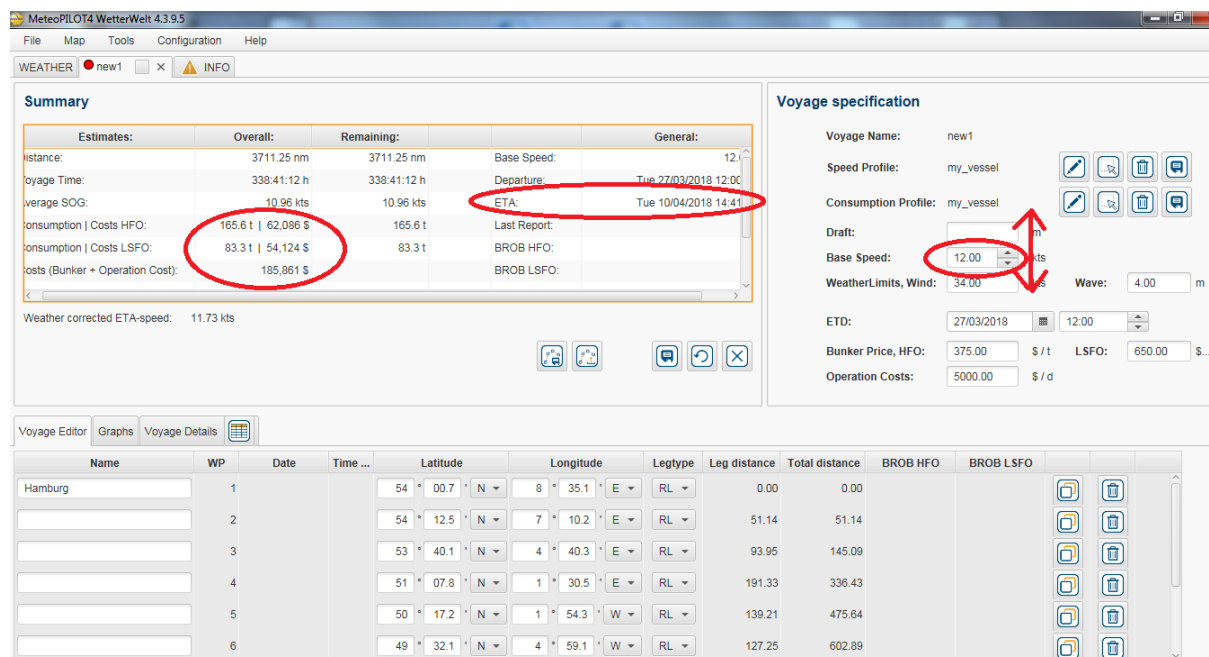
- load the latest and most suitable weather forecast file, covering the maximum of the sailing area and passage time
- load/activate the voyage of interest in your weather screen
- go to the voyage tab
- check / load the correct consumption profile for this voyage
- insert bunker cost and operation cost for your vessel

### Attention:

All parameters in this voyage like

- costs
- weather impact (dependant on loaded weather data)
- route distance
- base speed
- speed and consumption profiles

result in a current status of voyage performance and cost calculation.  
Take care that all parameters are used correctly!



| Name    | WP | Date | Time ... | Latitude      | Longitude    | Legtype | Leg distance | Total distance | BROB HFO | BROB LSFO |
|---------|----|------|----------|---------------|--------------|---------|--------------|----------------|----------|-----------|
| Hamburg | 1  |      |          | 54 ° 00.7 ' N | 8 ° 35.1 ' E | RL      | 0.00         | 0.00           |          |           |
|         | 2  |      |          | 54 ° 12.5 ' N | 7 ° 10.2 ' E | RL      | 51.14        | 51.14          |          |           |
|         | 3  |      |          | 53 ° 40.1 ' N | 4 ° 40.3 ' E | RL      | 93.95        | 145.09         |          |           |
|         | 4  |      |          | 51 ° 07.8 ' N | 1 ° 30.5 ' E | RL      | 191.33       | 336.43         |          |           |
|         | 5  |      |          | 50 ° 17.2 ' N | 1 ° 54.3 ' W | RL      | 139.21       | 475.64         |          |           |
|         | 6  |      |          | 49 ° 32.1 ' N | 4 ° 59.1 ' W | RL      | 127.25       | 602.89         |          |           |

Following options for cost optimization:

- (A) Change base speed (= planned speed on constant engine load)
  - adjust 'Base Speed' (up/down ... or insert values manually)
  - check, if ETA is still in time with each change
  - analyse 'Overall Costs'
  - chose the best Base Speed with minimum 'Overall Costs' and keep it fixed for this voyage (save voyage (as...)).

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- (B) Change ETD (only possible, when no reported point inserted yet (see 'Reporting' below))
- ➔ adjust 'ETD' (up/down ... or insert values manually)
  - ➔ check, if ETA is still in time with each change
  - ➔ analyse 'Overall Costs'
  - ➔ chose the best Base Speed with minimum 'Overall Costs' and keep it fixed for this voyage (save voyage (as...)).

(C) Change Route (details see above 'Time optimization')

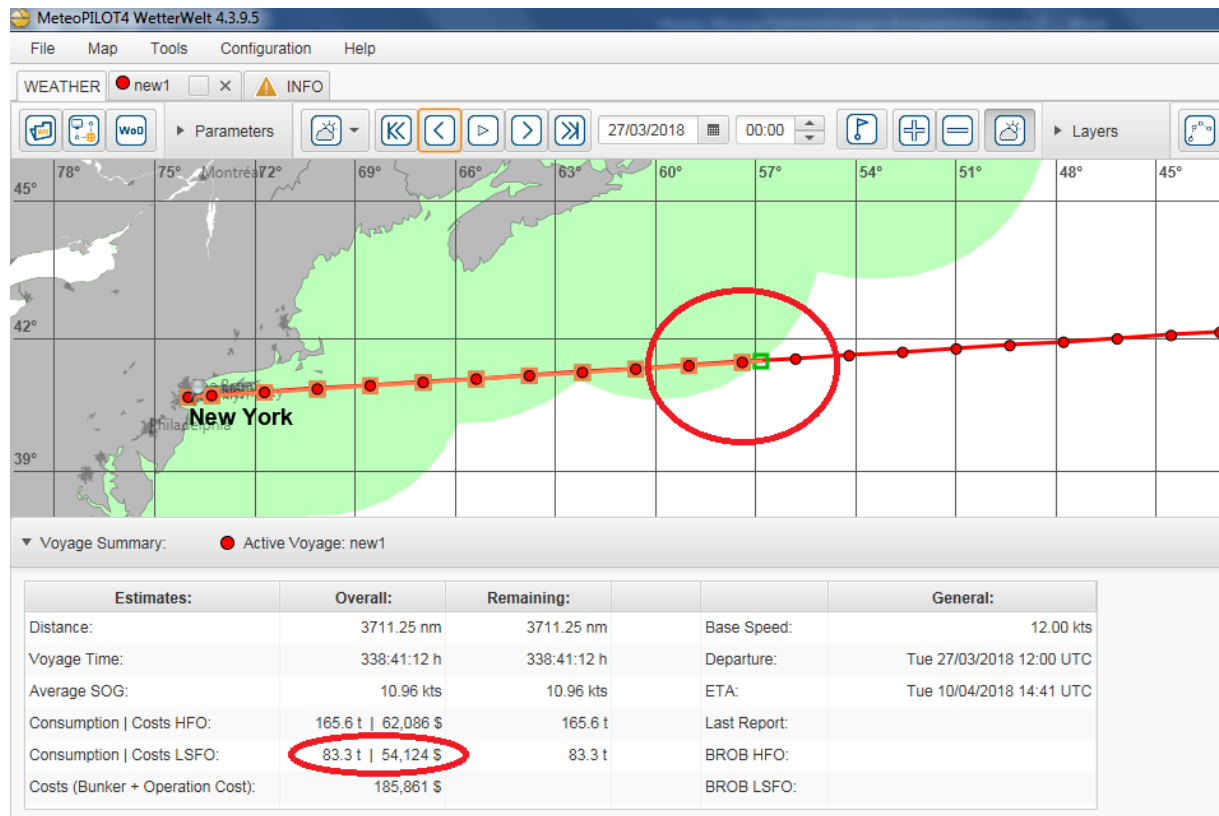
**Note:**

- ➔ with each waypoint / leg, which is getting changed, the distance / calculated sailing time changes immediately.
- ➔ By drag&drop waypoints to a different location, you see the changes in cost calculation immediately (→ go into weather tab and open the 'Voyage Summary': you can see the immediate effect!)

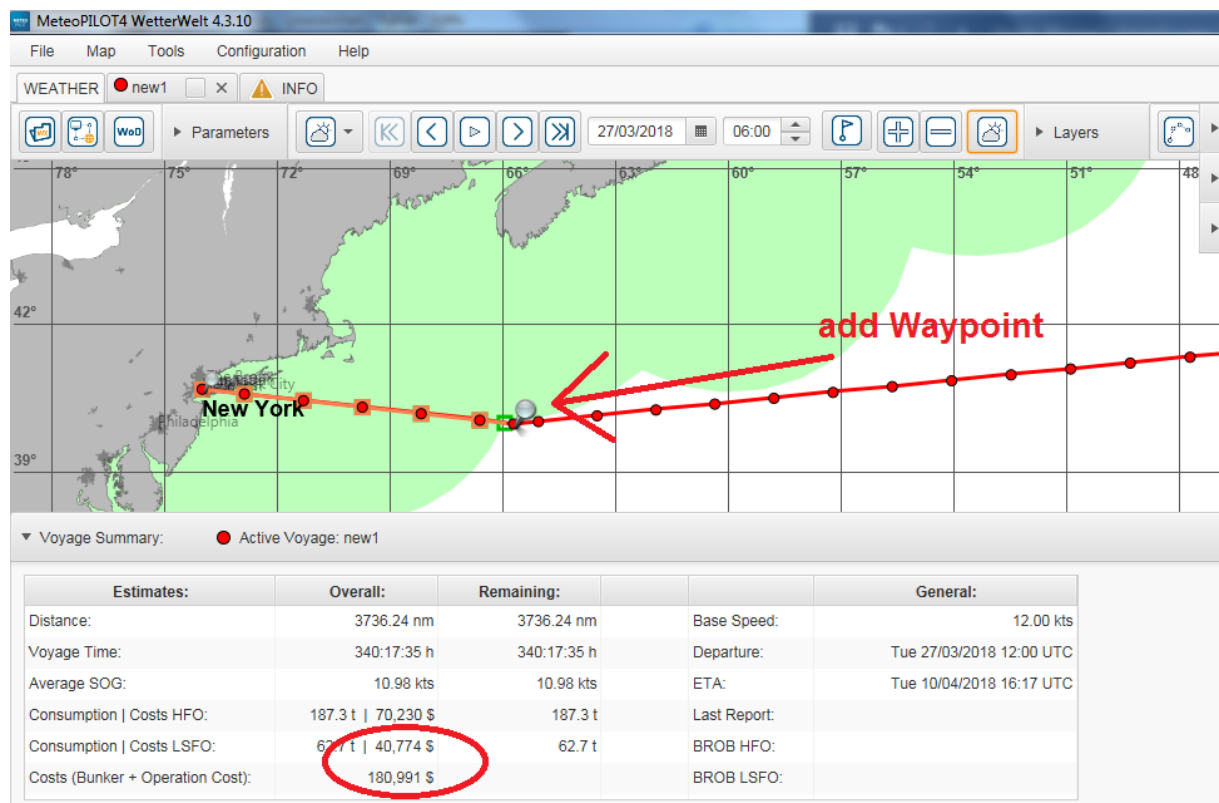
**Attention:**

ECA areas are always included in cost calculation!

- ➔ Check your passage time and cost calculation in ECA areas (consumption of LSFO / MGO)



- ➔ Pay attention to passages within ECA areas in especially!
- ➔ Reduce route distance / sailing time in ECA areas





- ➔ Look for minimum costs by drag&drop of additional waypoints

NOTE: as long as you have loaded the current weather forecast, which covers your sailing area and time period, the weather impact is taken into account for all calculations, so that you may find the absolute minimum costs by this action.

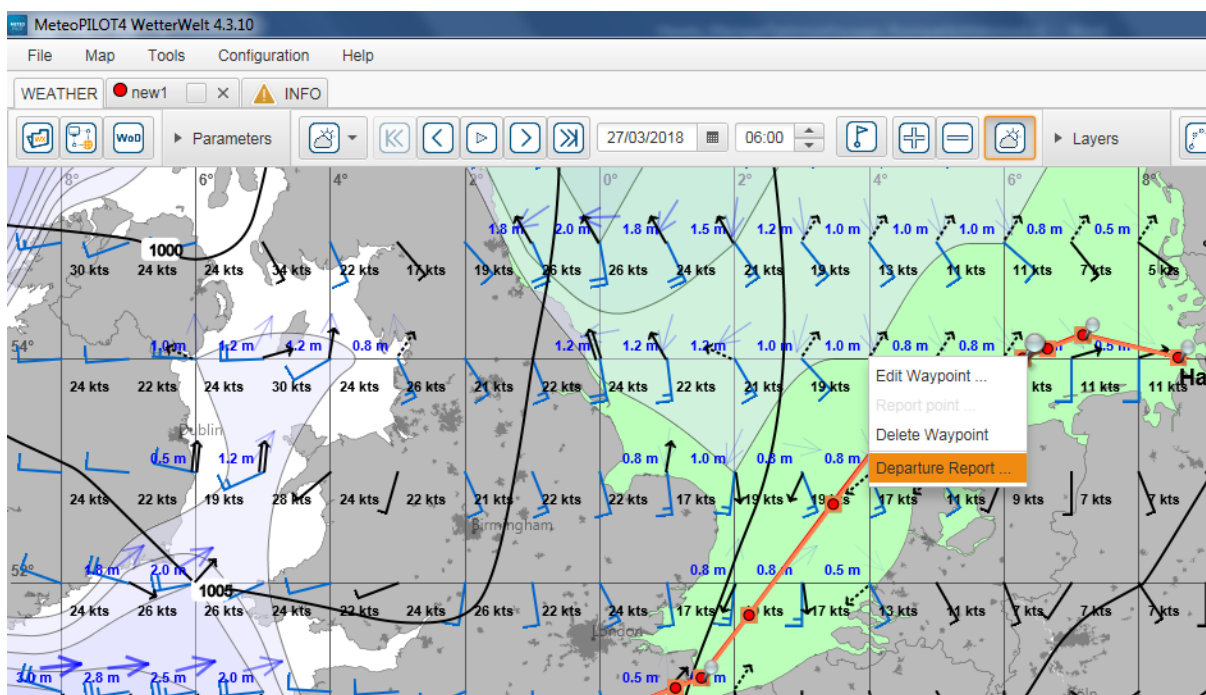
If no weather forecast data is loaded or the loaded weather data does not cover your sailing area/time period, the weather impact is 'zero' (i.e. voyage performance/cost calculation without weather).

### (E) Voyage Update / Reporting:

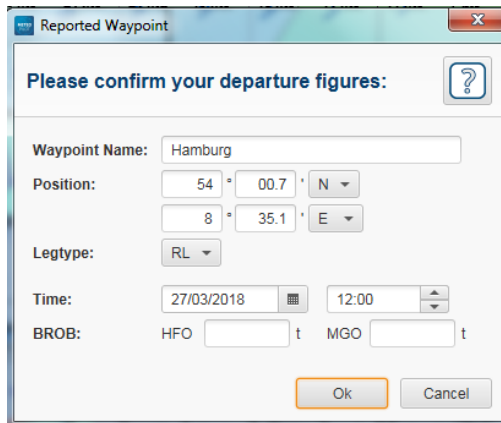
After BOSP, the initially planned **METEO** PILOT 4 – voyage can be tracked and updated.

#### Add Reported Point:

- ➔ Add waypoint into your voyage track (activate latest passed waypoint ➔ CTRL + left mouse click on the screen)
- ➔ Right mouse click on the new added WP



- ➔ When no report has been included in your voyage track, yet, the context menu offers 'Departure Report'
- ➔ Go to 'Departure Report':
- ➔



**Reported Waypoint**

Please confirm your departure figures:

Waypoint Name: Hamburg

Position: 54° 00.7' N 8° 35.1' E

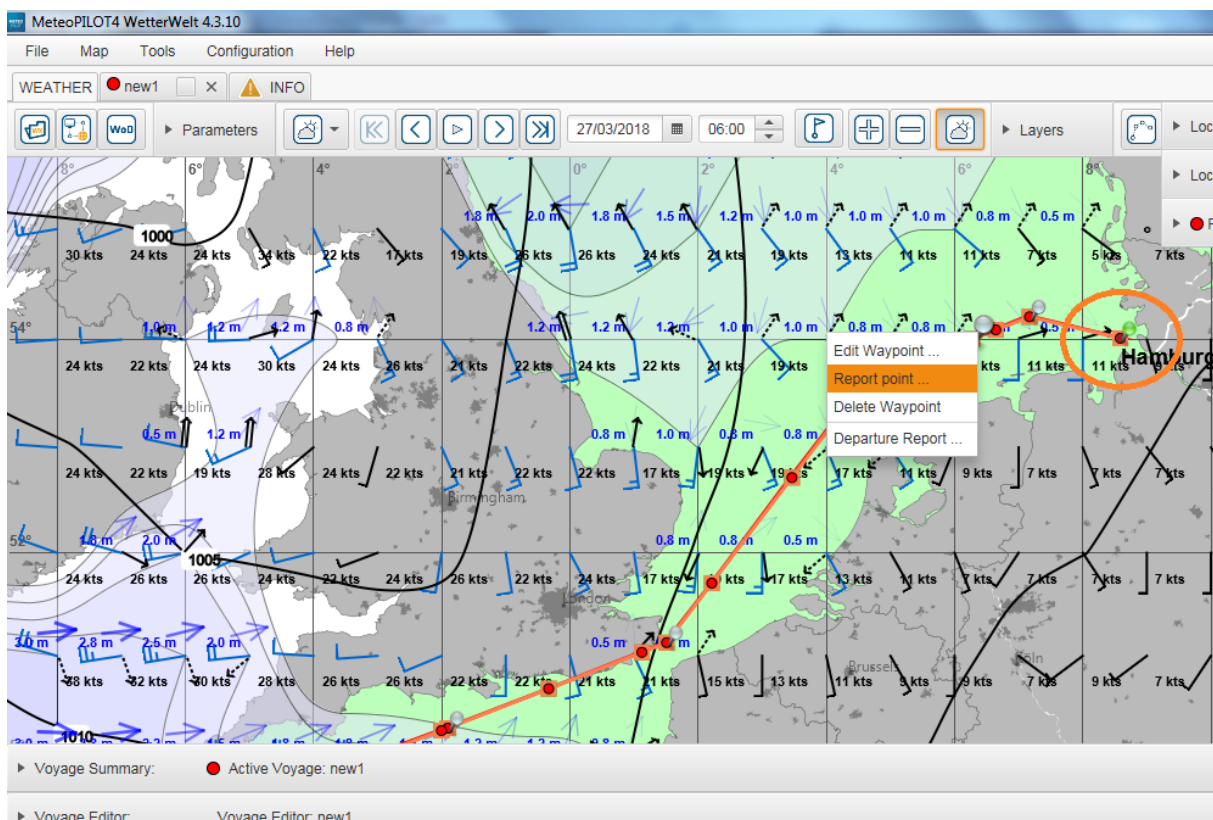
Legtype: RL

Time: 27/03/2018 12:00

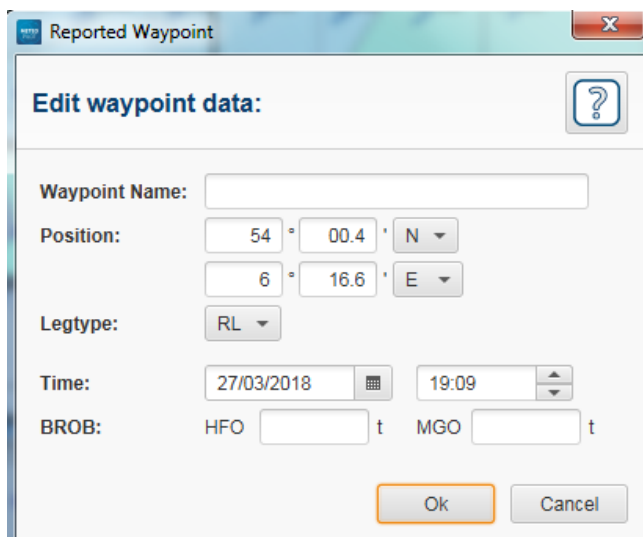
BROB: HFO t MGO t

Ok Cancel

➔ Confirm / edit your departure figures



- ➔ A green pin (=reported point) appears on your track
- ➔ Go with right mouse click on your new added WP again
- ➔ Go to 'Report Point'



➔ Confirm / edit your report figures

### Attention:

BROB-figures are optional. But it is RECOMMENDED to include BROB figures in your departure report **and** in your recent 'Reported Point'. The difference of both figures depicts the total consumption up to now and this is taken into account for calculating the overall consumption and overall costs for the entire voyage.

The remaining consumption and costs (in the future) are furthermore calculated by the models of speed and consumption profiles.

- ➔ Insert reported points day by day (your noon report e.g.)
- ➔ Save the voyage each time

All voyage performance calculations between the latest reported point and the finish are furthermore subject to planning and optimization.

The **METEO** PILOT 4 allows voyage planning and optimization on any stage of a voyage until arrival. It is always applied to the remaining part between the latest reported point and the finish point.

Take care that you always load the most current and best fitting weather forecast for your calculations!

## **HOW TO manage / optimize voyages in MP4**

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Since the voyage files are stored as a .json file in the file system, a voyage-file (including the daily position / bunker report) can be shared in a network or sent as email attachment and loaded in **METEO** PILOT 4 on other PC's.

Thus, Fleet Monitoring in the office is possible with this system.