



0. Contents:

1. Request Weather Data – Introduction	p.1
2. Catalogue Request	p.2
(A) One-Time-Request	p.3
(B) Subscribe for Regular Updates	p.3
(C) Offline Catalogue	p.5
(D) Ice Charts	p.5
3. Weather on Demand (WOD)	p.6
(A) Submit your Request	p.10

1. Request Weather Data – Introduction:

MeteoPILOT 4 in Coastal-, DeepSea- and SkyPM-Mode is associated with the permission to access WetterWelt's global weather data service. There are different options to receive weather forecast data from the WetterWelt server.

Two interfaces for weather data requests / subscriptions are provided:

- **Catalogue request:** choose from predefined areas
- **'Weather on Demand' WoD-request:** define individual area (not available for Coastal-Version of MP4)

Both interfaces allow you to make 'one-time requests' or 'subscriptions' and for every request you can choose, whether you want to receive your weather data via internet or via email.

- **'One-time request':** the requested weather data will be delivered once asap after your request.
- **'Subscription':** the requested weather data will be delivered as per your requested schedule steadily, until the subscription ends or until your license expires.



2. Catalogue Request:

A set of predefined weather forecast areas is provided via the catalogue request, covering all relevant coastal and (in DeepSea-mode) ocean areas worldwide.

- The coastal weather forecast is limited to 5 days.
- The ocean weather forecast is extended to 10 days.

The weather forecasts in the predefined weather files include the following parameters:

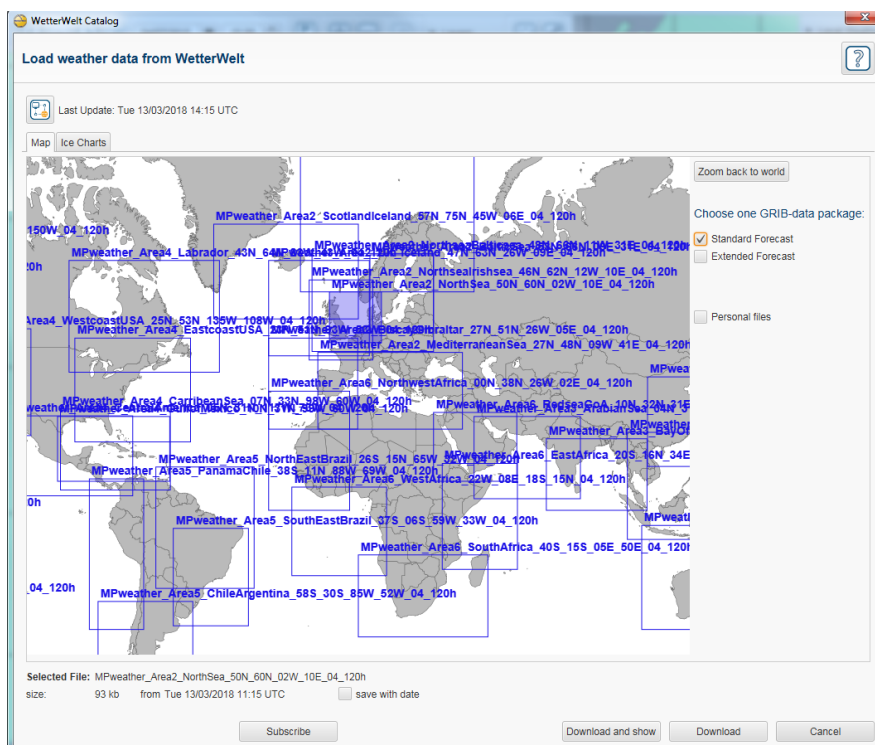
- Average winds
- max. gusts
- weather
- barometric pressure
- significant wave height
- mean wave period and direction
- ocean / tidal currents



Click on the 'Catalogue Request' button in the function bar on the upper left side of the weather tab

The Online / Offline Catalogue details are then provided in an extra window:

The tab '**Maps**' depicts a world chart with all standard weather forecast data sets currently provided for download.



Different catalogues are provided on the right side, depending on your MeteoPILOT 4 mode:

- **COASTAL Catalogues:**
 - Standard Coastal
 - Standard Coastal LowRes
- **DEEPSEA Catalogues:**
 - Standard Coastal
 - Extended Ocean
 - Personal Files

To download the catalogue area of your interest:

- chose the catalogue of your interest
- click into the chart and activate your area of interest
- download or subscribe for receiving your weather data

(A) One-Time Download:

If you have **internet connection**, you get the online catalogue information and can make a server download via internet:

- click '**Download**'
- choose a folder on your local drive, where you want to save the file



- or click '**Download and show**' and after saving, the file will be directly loaded in your MeteoPILOT 4

Please notice:

Each download counts for the request number. You can make up to <max. request number> downloads per day (see <max. request number> in menu bar -> Help -> About).

(B) Subscribe for Regular Updates:

If you want to receive the weather forecast data of a certain area on a regular basis:

- click '**Subscribe**'
→ a dialog window opens for further definition of your individual subscription
→ Insert your subscription details

Attention:

It is important that you insert your **correct** email address. The system reverts automatically with the weather data as per subscription to this email address.

Choose the option ('Internet' 'E-Mail' or 'Save as file') for sending your subscription to WetterWelt.



- **'Internet'** requires MP4 being connected to the internet
- **'E-Mail'** requires valid email client information (see below).
- **'Save as file'** requires your further action to attach this file to an email and send the email to 'routing@wetterwelt.de'.

Attention:

You can renew your recent subscription at any day. If <max.subscription number> in your license is = 1, the new subscription replaces the old one. (see < max.subscription number> in menu bar -> Help -> About)

(C) Offline Catalogue

In case you have **no internet connection**, you can still generate a request and send this request to WetterWelt as soon as you have an Internet connection.

Without an internet connection you see an offline catalogue. The offline catalogue is the most recent image of the online catalogue from the most recent online data request of your program. As explained above you can select your area of interest, choose whether you want to receive the weather data once or on a regular basis. This time you have to select 'Save as file' though and send the request as an email attachment to WetterWelt.

(D) Ice Charts

The tab **'Ice Charts'** shows a list from currently available ice charts from different ice services:

Filename	Size	Date
Canadian_Ice_Service_Ice_Chart_DavisStrait.jpg	115 kb	Thu 08/11/2018 23:58 UTC
Canadian_Ice_Service_Ice_Chart_GreatLakesEast.jpg	75 kb	Sat 19/05/2018 23:53 UTC
Canadian_Ice_Service_Ice_Chart_GreatLakesWest.jpg	43 kb	Tue 22/05/2018 23:03 UTC
Canadian_Ice_Service_Ice_Chart_GulfOfStLawrence.jpg	112 kb	Fri 18/05/2018 17:21 UTC
Canadian_Ice_Service_Ice_Chart_IcebergAnalysis.jpg	108 kb	Thu 08/11/2018 23:58 UTC
Canadian_Ice_Service_Ice_Chart_LabradorCoast.jpg	67 kb	Mon 27/08/2018 18:01 UTC
Canadian_Ice_Service_Ice_Chart_NewfoundlandWaters.jpg	67 kb	Fri 29/08/2018 23:48 UTC
SMHI_Ice_Chart_Baltic_Sea.jpg	201 kb	Thu 08/11/2018 12:38 UTC
met.no_Ice_Chart_Barents_Sea.jpg	94 kb	Thu 08/11/2018 18:50 UTC
met.no_Ice_Chart_Denmark_Strait.jpg	100 kb	Thu 08/11/2018 18:50 UTC
met.no_Ice_Chart_European_Polar_Waters.jpg	101 kb	Thu 08/11/2018 18:50 UTC
met.no_Ice_Chart_North_Sea_Baltic_Sea.jpg	99 kb	Thu 08/11/2018 18:50 UTC
met.no_Ice_Chart_Spitzbergen.jpg	102 kb	Thu 08/11/2018 18:50 UTC

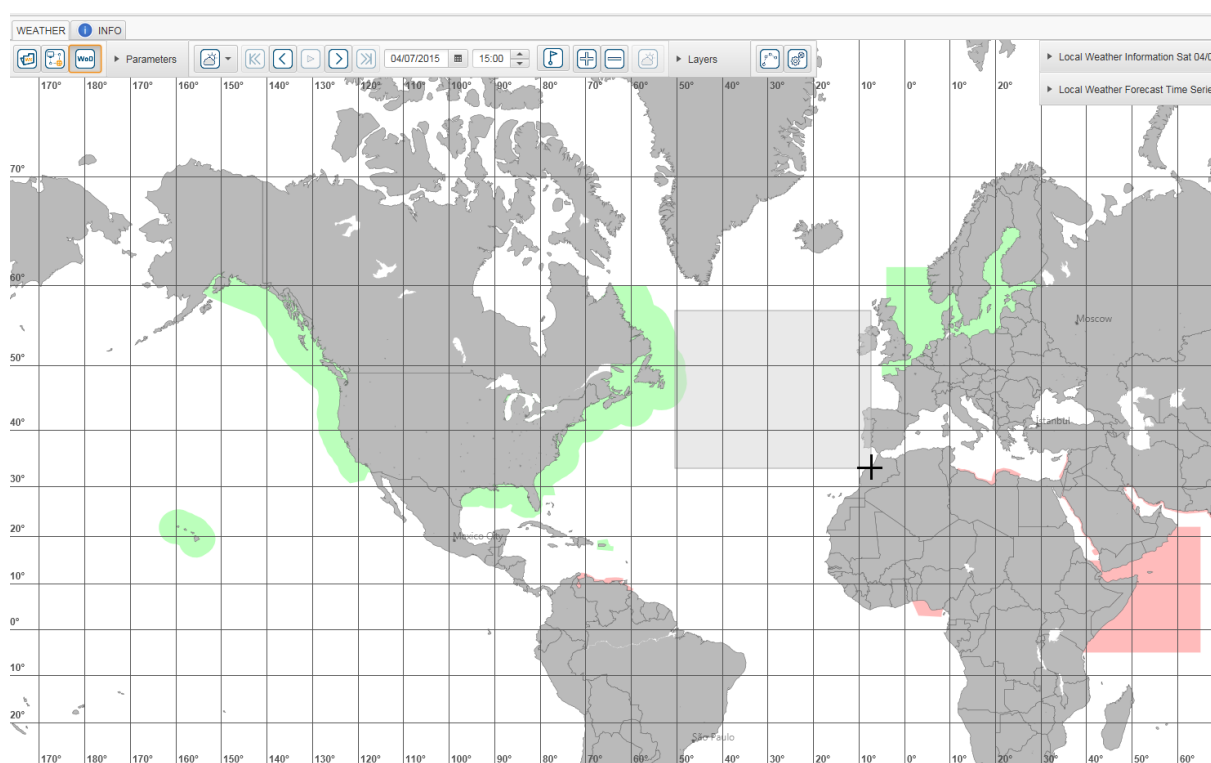
3. 'Weather on Demand' WoD-request



In the DeepSea- and SkyPM-Mode the data base can be accessed with an individual 'on demand' request by using the 'Weather on Demand' button. Same as for the online catalogue, you can trigger 'Single requests' or 'Subscriptions' via internet or email service.

Click on the button in the function bar on the upper left side of the weather tab.

Drag the mouse arrow across the screen while holding the right mouse button to define your request area:





A dialog window opens:

Weather On Demand [X]

Define your individual weather forecast data. [?]

Max. allowed file size: 15000 kb Actual file size: 42 kb

North limit: 59 ° 03.9 ' N West limit: 1 ° 05.0 ' W

South limit: 53 ° 52.8 ' N East limit: 8 ° 50.7 ' E

Parameters:

Atmosphere	Ocean	Others
☒ Wind	☒ Wave height	☐ Water temperature
☒ Gust	☒ Wave direction	☐ Ice concentration
☒ Pressure	☒ Wave period	
☐ 2m Temp	☐ Windsea height	
☐ Weather	☐ Windsea direction	
☐ 500hPa	☐ Windsea period	
☐ Precipitation	☐ Swell height	
☐ Visibility	☐ Swell direction	
☐ Clouds	☐ Swell period	
	☒ Current	

Grid Resolution [deg]: 1.0 (dropdown menu open showing 0.1, 0.25, 0.4, 1.0, 2.0)

Forecast Period [h]: 240 Time steps []: 6 Delay Forecast Period []: 0

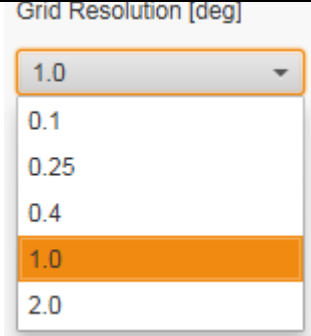
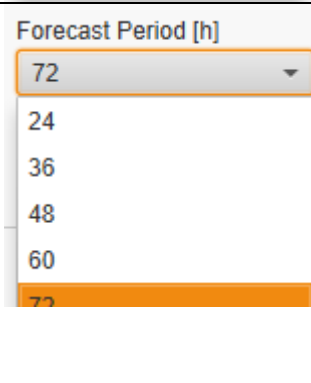
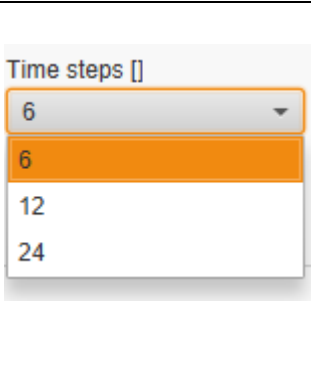
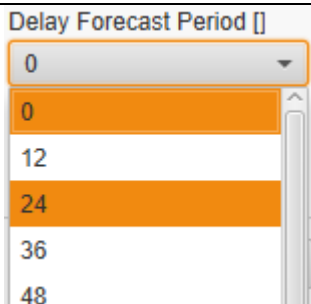
[Continue] [Cancel]

In this window you can specify / define your individual weather request. You can for example adjust your area, select different variables and specify the grid resolution and time stepping of your data.



The following table will give you more information for the best possible selection of weather data:

1. Always identify your area of interest! Consider your operating range for the next max.10 days and reduce the area size accordingly. This will help to reduce the amount of the requested weather data packages!	
2. <u>Max. allowed file size</u>: is specified via your license. DeepSea Version allows max. file size = 5000 kb. If this value is <5000kb, then your company has ordered a smaller limit.	Max. allowed file size: 5000 kb
3. <u>Actual files size</u>: is estimated from your WoD-specification in the dialog window and depends on the requested area, number of parameters, grid resolution, forecast period, time steps. If this value is greater than <i>max. allowed file size</i>, then the MeteoPILOT does not allow you to submit your request and you have to change your request according to your needs.	Actual file size: 40 kb
4. <u>Parameters</u>: For best performance calculation of your ship, it is recommended to include wind, wave height, wave direction and current in your weather request, because the program calculates effective speed (SOG) based on those parameters. If they are missing, then the weather impact is calculated to be 'zero'. Any other parameters are optional.	Atmosphere Ocean ☒ Wind ☒ Wave height ☒ Current ☒ Wave direction ☒ Wave period
5. <u>Grid Resolution</u>: 0.1°, 0.25°, 0.4°, 1.0°, 2.0°. The grid resolution is the true allocation of each model data point. The smaller this value, the more detailed the weather data! 0.4°-grid is recommended for coastal voyages. 1.0°-grid is recommended for trans-ocean passages. Please consider, that	

weather data in 0.1°-grid and data in 0.25°-grid may cause very big data files; hence, the forecast period for high resolution data is limited to 48 hrs.	
6. <u>Forecast Period:</u> options 24 → 240 hrs is the length of weather forecasts in the weather file. The availability of forecast periods depends on the grid resolution: high resolution data (0.1°) is available for short forecast periods up to 48 hrs, only; low resolution data (1.0°) is available for longer forecast periods up to 240 hrs.	
7. <u>Time Steps:</u> options are 1, 3, 6, 12, 24 hrs. The time steps display the forecasted weather on those time intervals. The availability of time steps depends on the grid resolution and forecast period: high resolution data (0.1°) can be requested on 1hr time intervals; low resolution data (0.4° or 1.0°) is available on lower rastered time-intervals (6- to 24-hrly).	
8. <u>Delay Forecast Period:</u> provides an option for an offset time for the first time step in your weather data. If you wish to start right away, then the delay is recommended to stay on '0' to get the forecast data from now onwards.	

Special On-Demand-Parameters are: SST and Ice

Both parameters can be requested within the weather forecast data, but they don't cover the entire forecast period and are handled in the MP in a different way.



(A) Submit your request:

Press continue in the first dialog window.

A second dialog window with the settings for the data delivery appears:

Weather On Demand

Define the weather data delivery [?]

Do you want to receive this weather file once within next few minutes (one-time request) or on regular basis (subscription)?

- ☒ One-time Request: Delivery instantly via internet
- ☐ One-time Request: Delivery via email
- ☐ Subscription: Delivery 1x / day
- ☐ Subscription: Delivery 2x / day
- ☐ Subscription: Delivery 1x / 2days

How long do you want to receive this weather file?

the next days ☐ entire license period

At what time(s)?

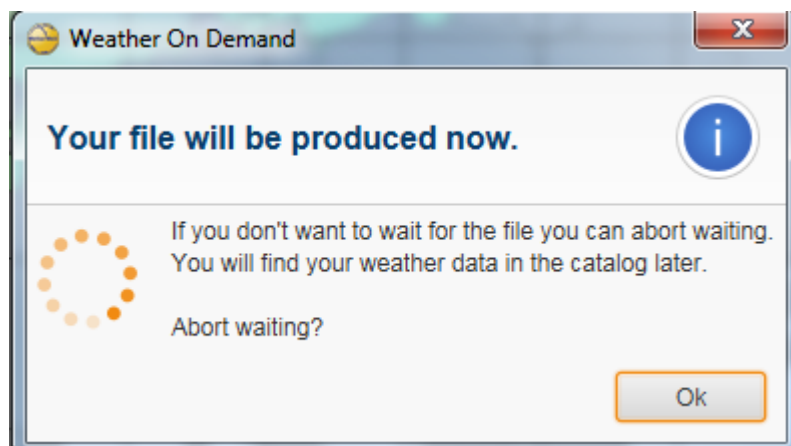
Which email address would you like the weather file to be sent?

How would you like to send this request to the WetterWelt server?

Via

Choose the frequency of weather forecast updates:

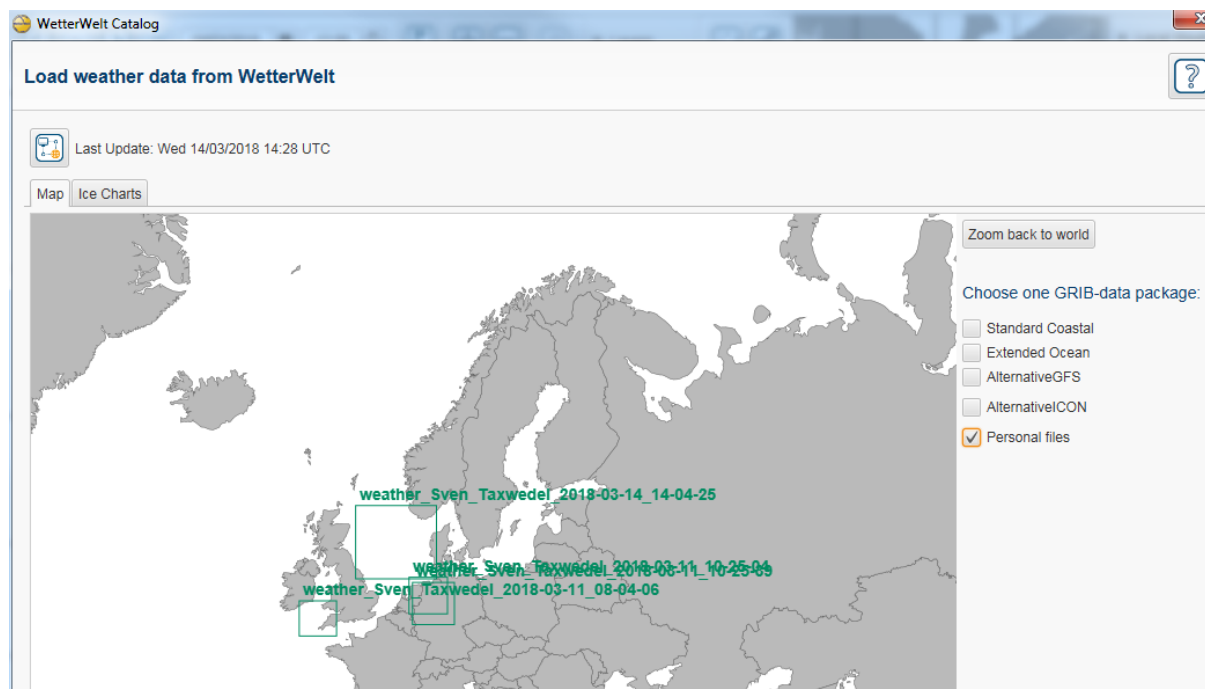
(A) **'One-Time Request' via Internet:** the request is submitted directly to the WetterWelt server and the weather file gets produced instantaneously.



The MeteoPILOT waits 120 seconds for server response.

If the file gets produced within 120 seconds, the program loads the weather file directly. You will receive your data package only one time.

If the weather file is not produced within 120 seconds or you click 'Abort waiting? → OK', then the weather file gets uploaded asap to the online catalogue → Personal Files: you can download your personal file via catalogue request.



You have access to these WoD-requested files via the online catalogue for 5 days. Then they get deleted.



Please note:

The maximum number of allowed requests per day can be seen in the license details: [Help](#) → [About](#) → [License: Max.Requests](#)

(B) One-time Request: Delivery via email: If a WoD-one-time request is set up for email delivery service, the fields below gets enabled and you shall insert your individual wishes:

Weather On Demand

Define the weather data delivery

Do you want to receive this weather file once within next few minutes (one-time request) or on regular basis (subscription)?

- ☐ One-time Request: Delivery instantly via internet
- ☐ One-time Request: Delivery via email
- ☒ Subscription: Delivery 1x / day
- ☐ Subscription: Delivery 2x / day
- ☐ Subscription: Delivery 1x / 2days

How long do you want to receive this weather file?

the next days ☐ entire license period

At what time(s)?

Which email address would you like the weather file to be sent?

How would you like to send this request to the WetterWelt server?

Via

- Internet
- SkyPM
- E-Mail
- Save as file

Finally you chose the way, how the wod.request file shall be transmitted.

HOW TO request or subscribe for weather data

If a 'One-time request' is submitted and sent via email, this request will be adapted automatically and your weather file shall be created and sent within 5 minutes! Please check your inbox.

(C) 'Subscription: Delivery ... ': If you want to receive weather forecasts in a fixed schedule for a period of more than one day, you take out a subscription and receive your weather data for a certain time period once or twice a day or every second day.

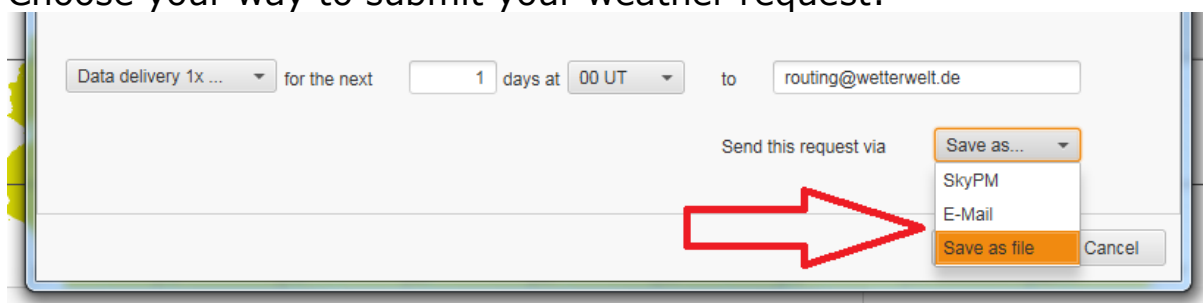
Any new subscription replaces the old subscription. Any new single request does not have an effect on your subscription. You can find the number of allowed daily subscriptions in your license details: (Help → About → License: Max.subscription number)

You can have an ongoing subscription and make <'Max.Requests'> per day parallel to your weather subscription.

The subscription ends either at the end of your subscription period (for the next ... days) or at the end of your license period.

If subscription 'twice per day' is chosen, then the sending time for the second data update is time shifted by 12 hrs.

Choose your way to submit your weather request:



- '**SkyPM**' sends the weather request via SkyPM-System
- '**Save as file**' creates a 'wod.request'-file. Save this file on your local drive and attach this file to an email and send it manually.
- '**E-Mail**' sends this request automatically via connection to your email system. Therefore, you need to define the settings of your email system: main menu → Configuration → Settings. If details not available, then please ask your IT-system administrator.