

HOW TO request or subscribe for weather data

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1. Request Weather Data – Introduction:

METEO PILOT in 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

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, for example once or twice a day, until the subscription ends or until your license expires.

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2. Catalogue Request:

A set of predefined weather forecast areas is provided via the catalogue request, covering all relevant coastal areas and 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

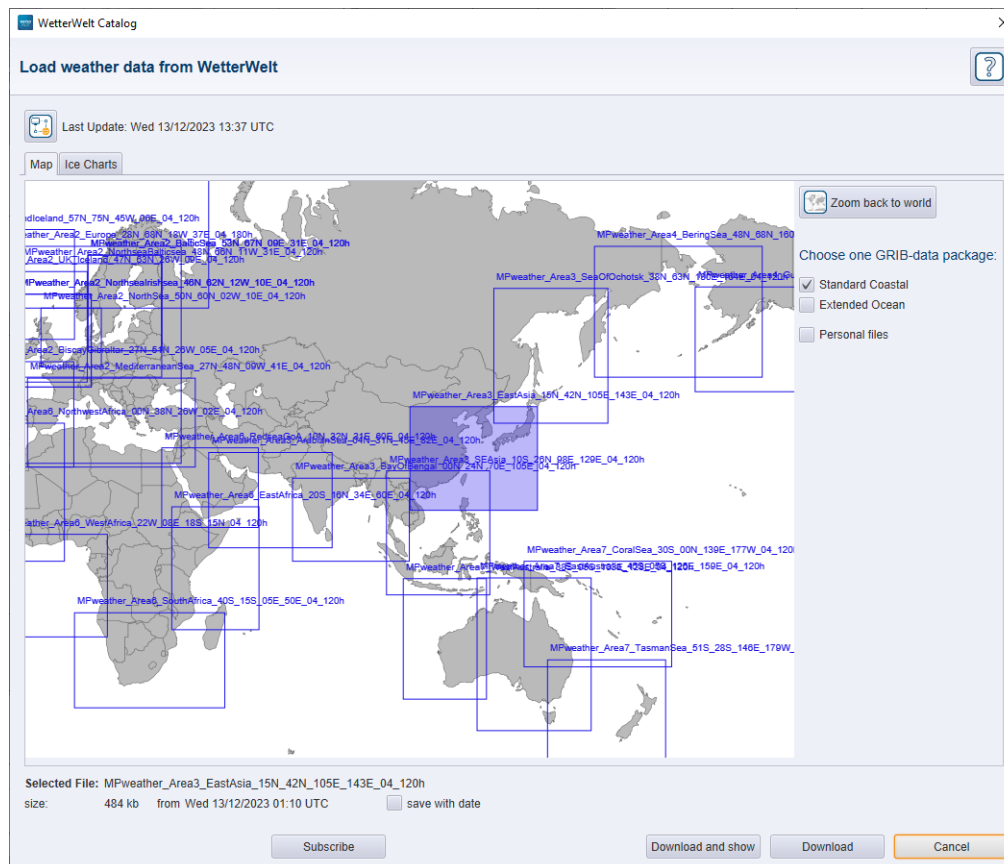


Click on the 'Catalogue Request' button in the function bar on the upper left side of the weather tab.

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

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

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Different catalogues are provided on the right side, depending on your **METEO PILOT** mode:

- 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

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(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 to save the file
- **Or** click '**Download and show**' and after saving, the file will be directly loaded in your **METEO PILOT**

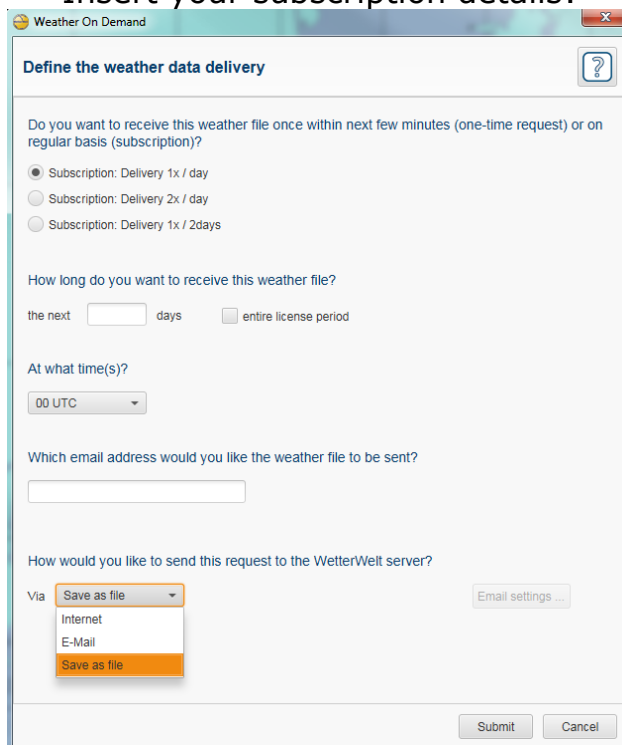
Please notice:

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 dialogue window opens for further definition of your individual subscription
- Insert your subscription details:



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)?

☒ 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

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Attention:

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

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

- **'Internet'** requires **METEO** PILOT being connected to internet
- **'E-Mail'** requires valid email client information (Configuration -> Settings-> fill in personal Email settings)
- **'Save as file'** requires your further action to attach this file to an email and send the email to 'routing@wetterwelt.net'

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

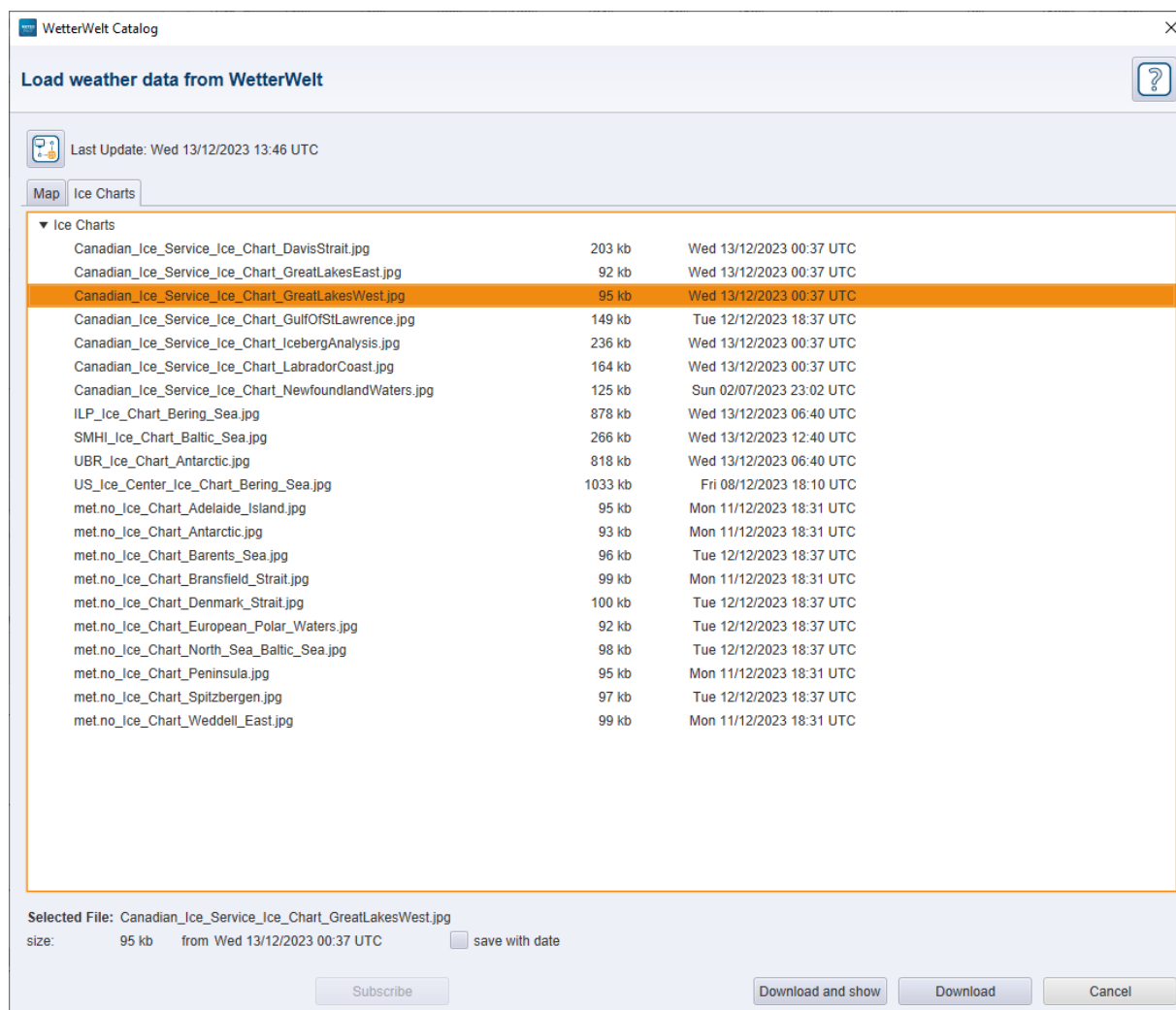
In case you have **no internet connection**, you can still generate a request and send this request to WetterWelt as soon as you have an Internet connection.

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' and send the request as an e-mail attachment to WetterWelt.

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(D) Ice Charts

Ice charts are to find via online catalogue. The tab **'Ice Charts'** shows a list from currently available ice charts from different ice services:



WetterWelt Catalog

Load weather data from WetterWelt

Last Update: Wed 13/12/2023 13:46 UTC

Map Ice Charts

▼ Ice Charts

File Name	Size	Date
Canadian_Ice_Service_Ice_Chart_DavisStrait.jpg	203 kb	Wed 13/12/2023 00:37 UTC
Canadian_Ice_Service_Ice_Chart_GreatLakesEast.jpg	92 kb	Wed 13/12/2023 00:37 UTC
Canadian_Ice_Service_Ice_Chart_GreatLakesWest.jpg	95 kb	Wed 13/12/2023 00:37 UTC
Canadian_Ice_Service_Ice_Chart_GulfOfStLawrence.jpg	149 kb	Tue 12/12/2023 18:37 UTC
Canadian_Ice_Service_Ice_Chart_IcebergAnalysis.jpg	236 kb	Wed 13/12/2023 00:37 UTC
Canadian_Ice_Service_Ice_Chart_LabradorCoast.jpg	164 kb	Wed 13/12/2023 00:37 UTC
Canadian_Ice_Service_Ice_Chart_NewfoundlandWaters.jpg	125 kb	Sun 02/07/2023 23:02 UTC
ILP_Ice_Chart_Bering_Sea.jpg	878 kb	Wed 13/12/2023 06:40 UTC
SMHI_Ice_Chart_Baltic_Sea.jpg	266 kb	Wed 13/12/2023 12:40 UTC
UBR_Ice_Chart_Antarctic.jpg	818 kb	Wed 13/12/2023 06:40 UTC
US_Ice_Center_Ice_Chart_Bering_Sea.jpg	1033 kb	Fri 08/12/2023 18:10 UTC
met.no_Ice_Chart_Adelaide_Island.jpg	95 kb	Mon 11/12/2023 18:31 UTC
met.no_Ice_Chart_Antarctic.jpg	93 kb	Mon 11/12/2023 18:31 UTC
met.no_Ice_Chart_Barents_Sea.jpg	96 kb	Tue 12/12/2023 18:37 UTC
met.no_Ice_Chart_Bransfield_Strait.jpg	99 kb	Mon 11/12/2023 18:31 UTC
met.no_Ice_Chart_Denmark_Strait.jpg	100 kb	Tue 12/12/2023 18:37 UTC
met.no_Ice_Chart_European_Polar_Waters.jpg	92 kb	Tue 12/12/2023 18:37 UTC
met.no_Ice_Chart_North_Sea_Baltic_Sea.jpg	98 kb	Tue 12/12/2023 18:37 UTC
met.no_Ice_Chart_Peninsula.jpg	95 kb	Mon 11/12/2023 18:31 UTC
met.no_Ice_Chart_Spitzbergen.jpg	97 kb	Tue 12/12/2023 18:37 UTC
met.no_Ice_Chart_Weddell_East.jpg	99 kb	Mon 11/12/2023 18:31 UTC

Selected File: Canadian_Ice_Service_Ice_Chart_GreatLakesWest.jpg

size: 95 kb from Wed 13/12/2023 00:37 UTC ☐ save with date

Subscribe Download and show Download Cancel

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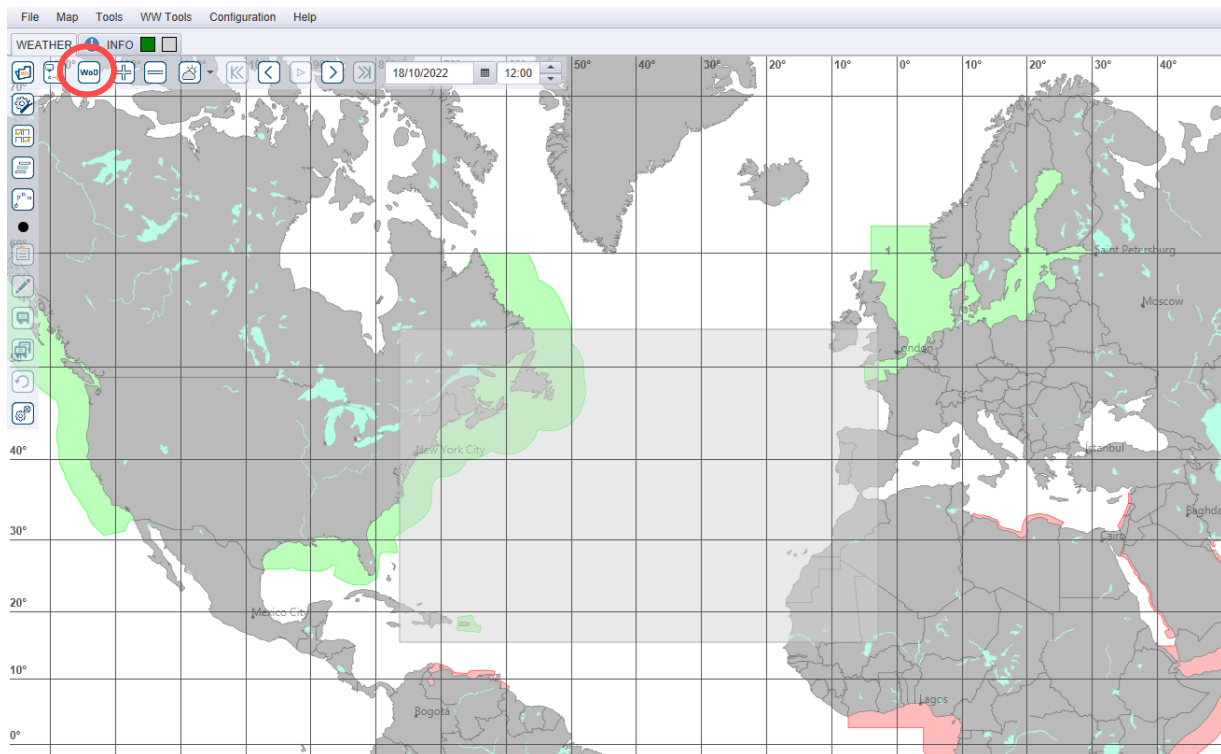
3. 'Weather on Demand' WoD-request



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 e-mail service.

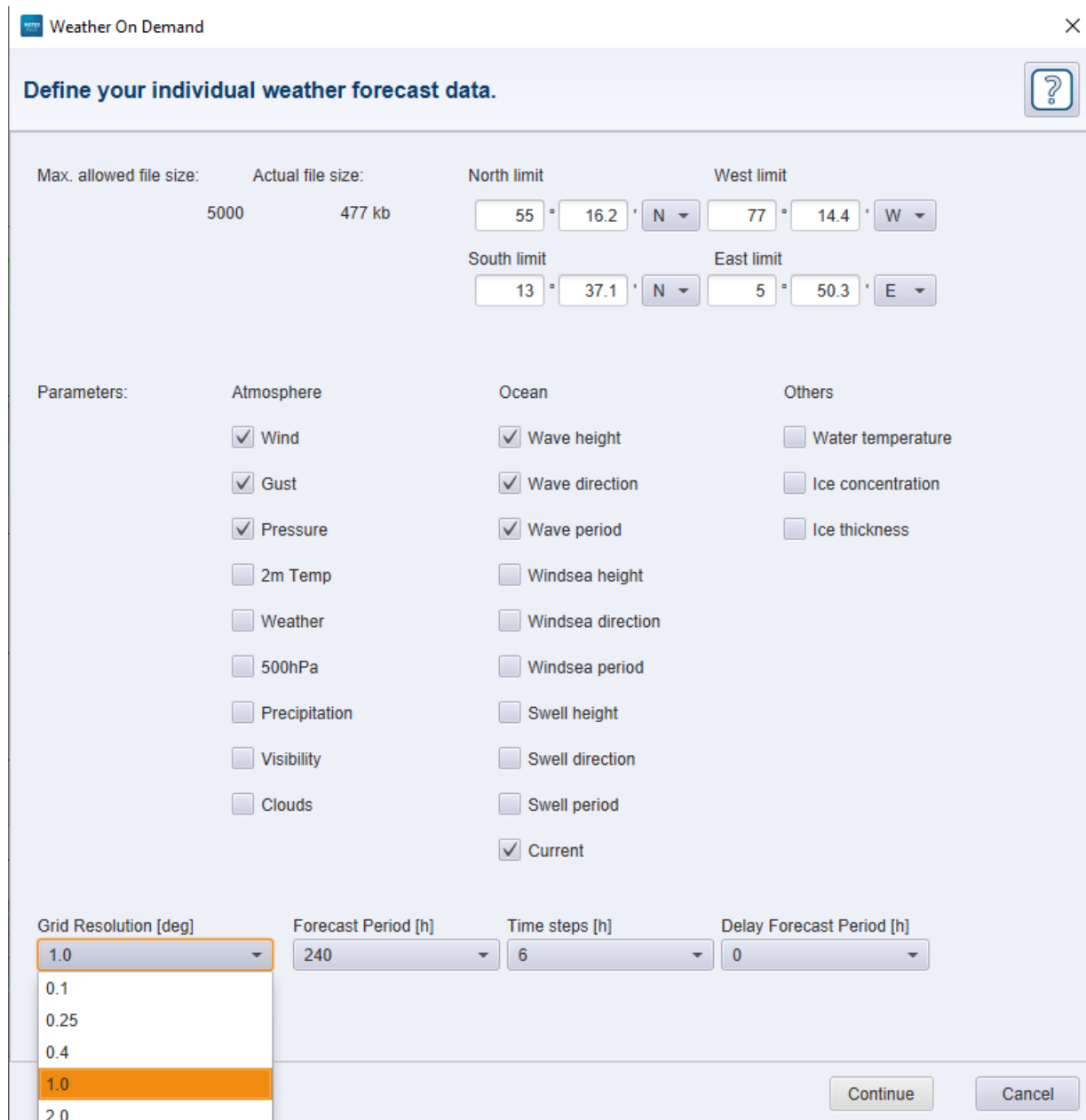
Click on the button in the function bar on the upper left side of the weather tab.

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



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A dialogue window opens:



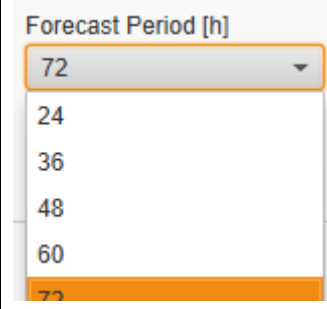
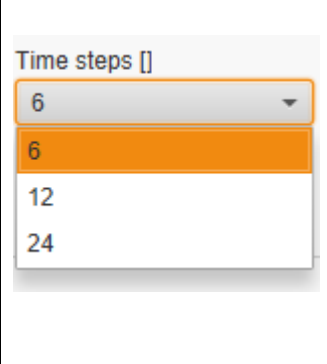
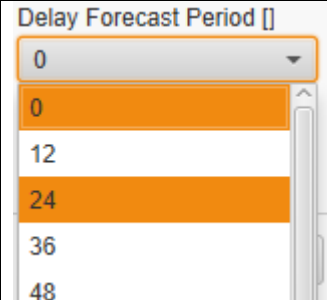
In this window you can specify / define your individual weather request. You can for example adjust your area, select different variables and specify the grid resolution and time stepping of your data.

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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 operation 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. METEO PILOT 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 dialogue 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 METEO PILOT 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 are 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 0.25°-grid may cause very big data files; hence, the forecast period for high resolution data is limited to 48 hrs.	Grid Resolution [deg] 1.0 0.1 0.25 0.4 1.0 2.0

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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 (0.25°) is available for short forecast periods up to 120 hrs only; low resolution data (1.0°) is available for longer forecast periods up to 240 hrs.	
7. <u>Time Steps</u>: options are 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 (0.25°) can be requested on 3 hrs time intervals; low resolution data (0.4° or 1.0°) is available on lower rastered time-intervals (3- 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**

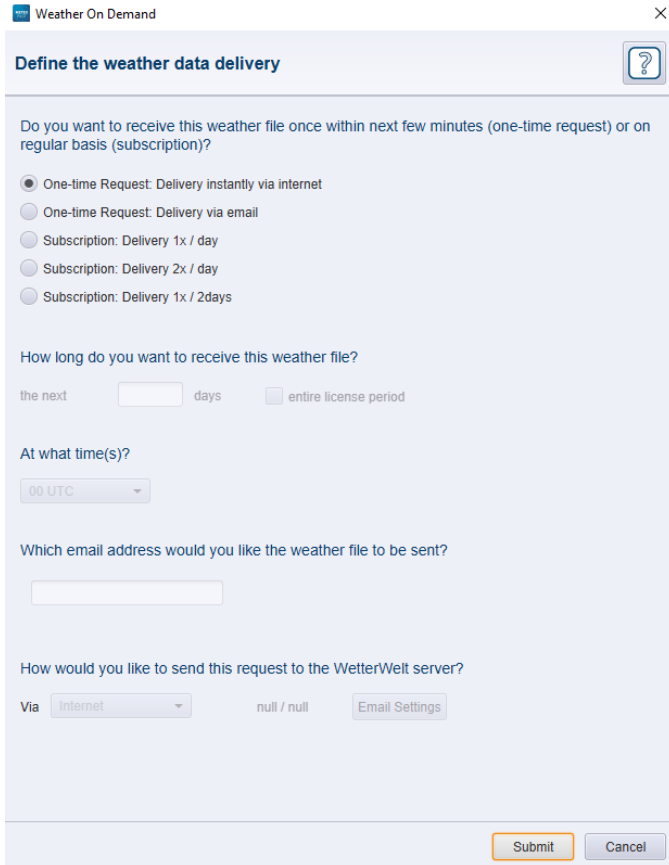
Both parameters can be requested within the weather forecast data, but they don't cover the entire forecast period and are handled in **METEO PILOT** in a different way.

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(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)?

00 UTC

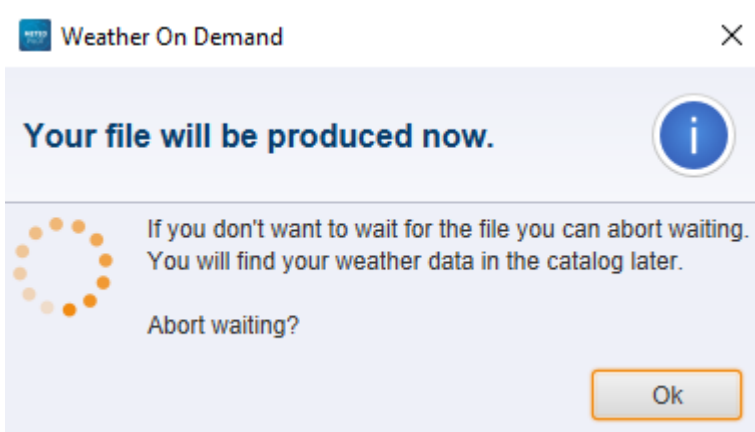
Which email address would you like the weather file to be sent?

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

Via null / null

Choose the frequency of weather forecast updates:

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



Weather On Demand

Your file will be produced now.

 If you don't want to wait for the file you can abort waiting.
You will find your weather data in the catalog later.

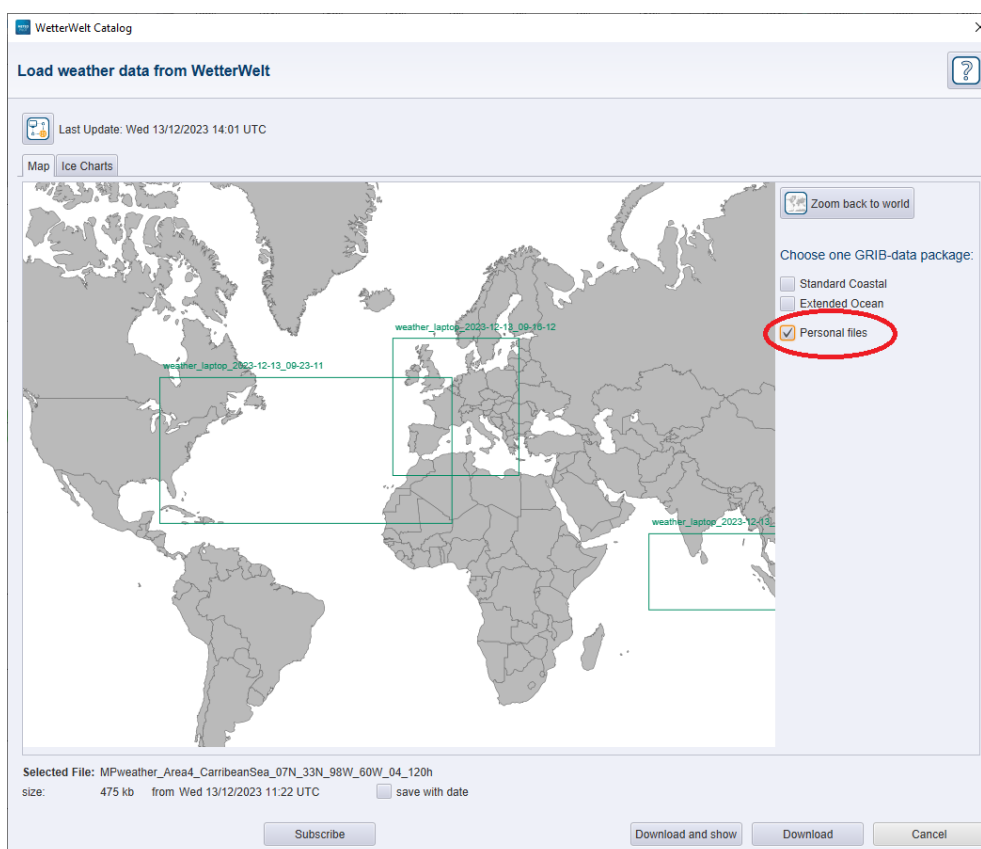
Abort waiting?

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The **METEO** PILOT 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.



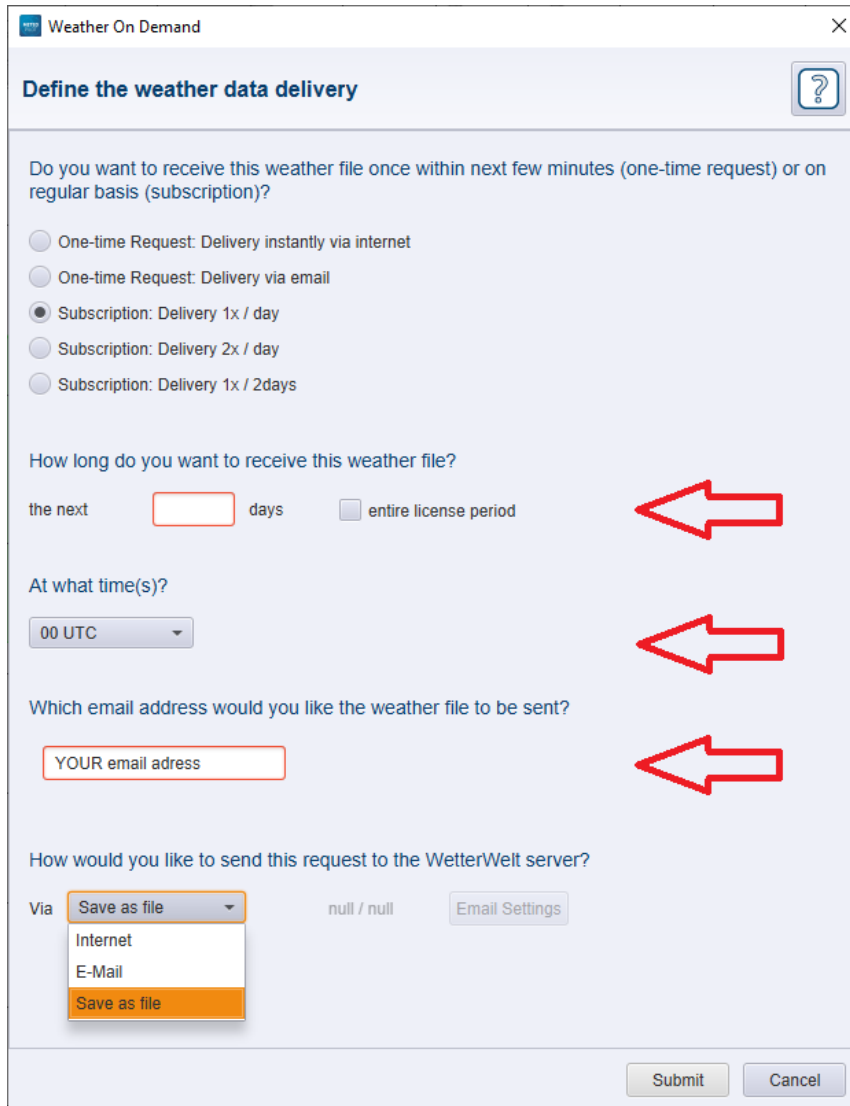
You have access to these WoD-requested files via the online catalogue for 24 hrs. Then they get deleted.

Please note:

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

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



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

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.

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(D) '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. A 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 e-mail and send it manually to **meteopilot@wetterwelt.net/meteopilot@wetterwelt.de**
- **'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.