



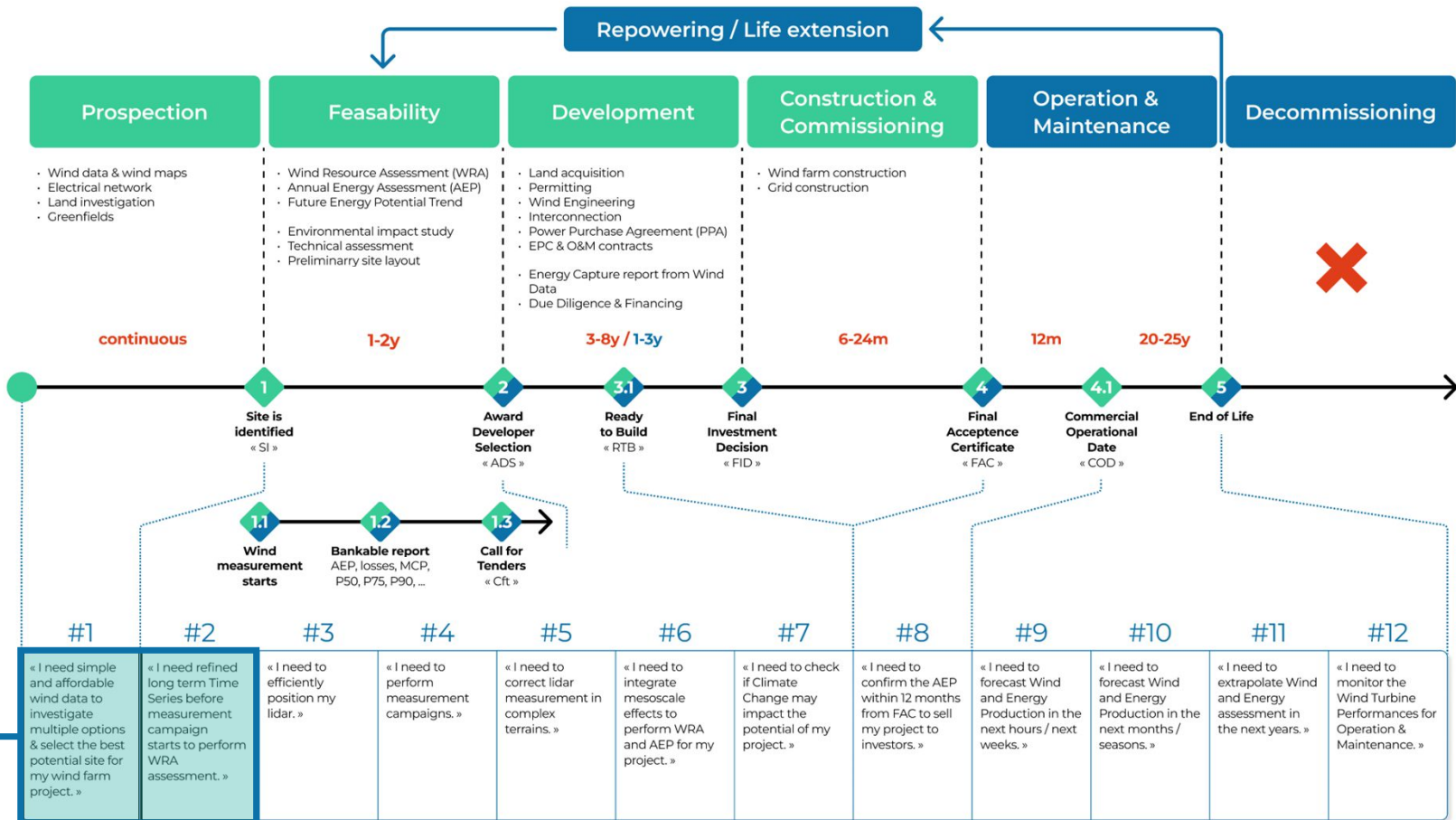
The New Meteadyn Wind Data Portal

Your high-resolution, localized & worldwide wind data platform

Windenergietage 2025 – Potsdam, 12-14 November 2025

Eric TROMEUR, PhD – Director Research, Innovation, Service & Expertise

Wind Farm Life-Cycle



Wind Data Portal



METEODYN Website



Wind Data Portal

metodyn
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**METEODYN, your
Wind Engineering,
Climatology and
Meteorology expert**

Software, forecasts, studies, and on-demand services.

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HOME » WIND DATA PORTAL

Wind Data Portal

Your global hub for high-resolution, localized wind data for every project, anywhere in the world.

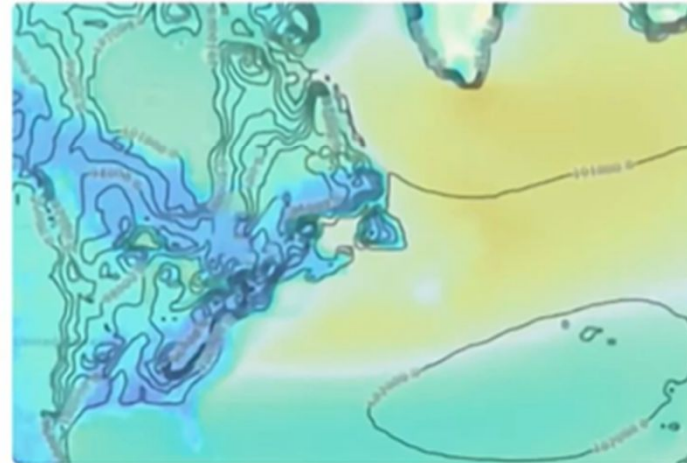
High-Resolution Global Wind Data: Accurate geolocation and cutting-edge processing for your projects

Optimize your projects with Meteodyn's high-resolution, localized wind data, highly superior to traditional models thanks to cutting-edge processing applied by our teams of experts.

Designed to meet industry requirements, our advanced and premium quality data are ideal for wind farm development, and climate change adaptation.

[Browse the data](#)

[For what uses?](#)

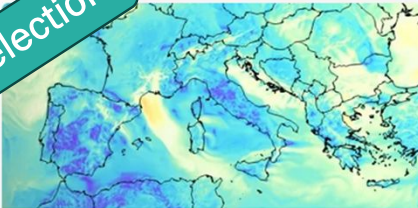




Wind Data Portal | 4 new products !



Product selection



Onshore Met Mast

Powered by CFD technology*

Time series

Validate a site's wind data by downloading up to 30 years of high-resolution wind data** for locations worldwide and any height between 10 and 300 meters.

For all sites, the development of wind farms (Greenfield) or prior to measurement campaigns.

**Premium CFD quality, including micro-scale effects with a horizontal resolution of 50 meters, topography, and local atmospheric stability.*

***Duration varies depending on the area and data source.*

[Get data ▾](#)



Offshore Met Mast

Powered by SARWind® technology*

Time series

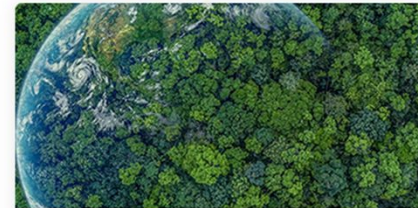
Take advantage of 20 years of offshore wind data from SAR satellite observations (330,000+ SAR images processed worldwide) for heights ranging from 10 to 150 meters.

More accurate, this innovative technology is based on satellite observations and quality validation.**

**Availability varies by area.*

***2.9% increase in performance on gross AEP (without wake losses), compared to digital datasets.*

[Get data ▾](#)



Climate Change Analytics (CCA)

Statistical trends

Secure your projects by reducing risks and improving the profitability of your investments with our CCA. Access our accurate, localized climate projections, tailored to your project, based on IPCC scenarios and available worldwide for all heights from 10 to 300 meters.

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Meso-Microscale Coupling (MMC)

Statistical series

Improve the accuracy of your wind resource assessment with Metedyn WT software. Metedyn's meso-micro-scale coupling (MMC) technology integrates regional atmospheric phenomena into microscale CFD simulations.

Generate a SAM file, which is only compatible with our Metedyn WT software.

The MMC approach is generally recommended for wind farms:

- Covering a large area
- Located in coastal or mountainous areas
- Subject to significant diurnal cycles or unstable atmospheric conditions

[Get data ▾](#)





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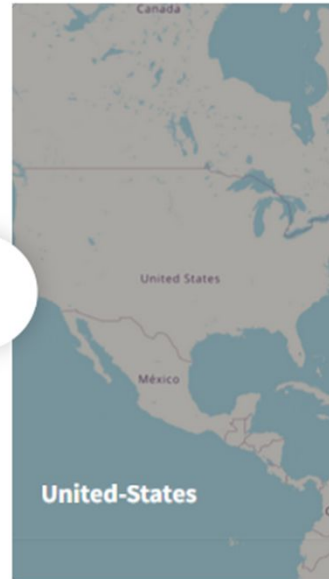
Area selection

Onshore Met Mast

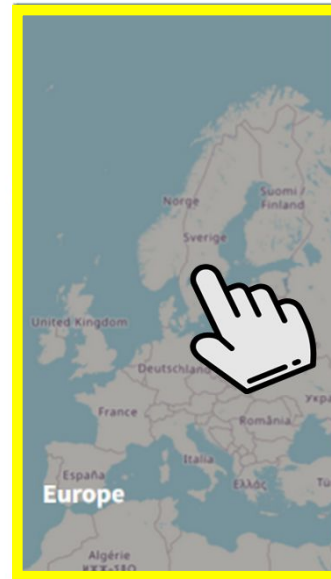
Offshore Met Mast

Virtual met masts

Select the geographic area for your project.



United-States



Europe



Oceania

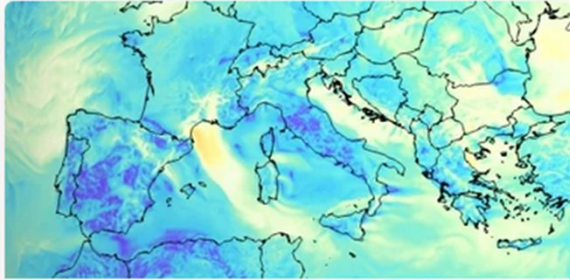


World





Wind Data Portal | Onshore Met Mast - Europe



Onshore Met Mast Powered by CFD technology*

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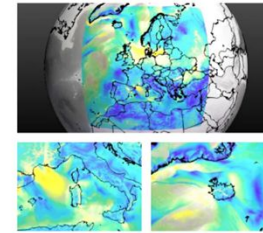


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Onshore and Offshore Met Mast - Europe

Quickly validate the wind power potential of your projects in Europe with our virtual met mast. Enjoy the benefits of high-resolution, accurate and localized wind data.



Wind data dedicated to wind resource assessment

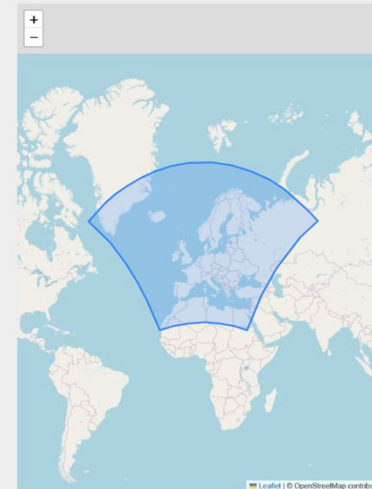
Technical details

- **Deliverables:** Time series
- **Variables:** Wind speed and direction
- **Available period:** 1984-2022
- **Delivery time:** 30 min (Advanced), few days (Premium-CFD)
- **Format:** CSV, JPEG (Wind rose)
- **Horizontal resolution:** 5.5 km (Advanced), 50 meters (Premium-CFD)
- **Temporal resolution:** 1 hour (Advanced and Premium-CFD)
- **Heights:** 10-300 meters
- **Compatibility:** Meteodyn WT, Excel, Python

Order

Go back to the store

Technical details



Define the location of your project

Quality Choose an option

Advanced Premium-CFD

Point 1

Latitude (deg)* Longitude (deg)*

Must be in the blue zone Must be in the blue zone

Please enter a number from 35 to 70 Please enter a number from -10 to 35

Coordinates

Reference height H (m)*

Please enter a number from 10 to 300

Height

Additional heights

H -50m +400,00 €

H +50m +400,00 €

Options



Add a point

Total 0,00 €



Add to cart

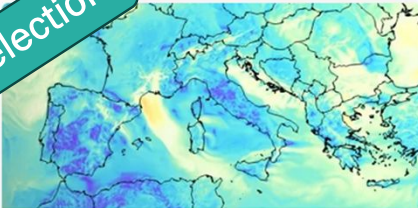




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Product selection



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Powered by CFD technology*

Time series

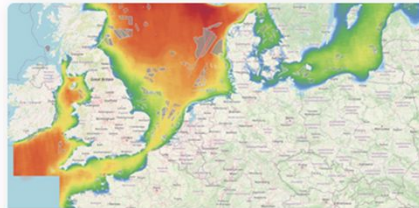
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Powered by SARWind® technology*

Time series

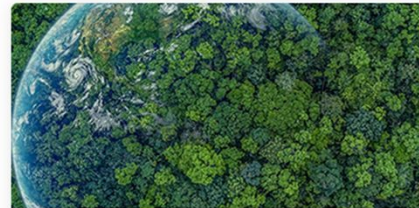
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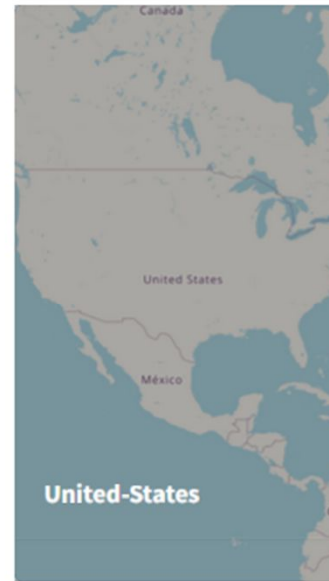
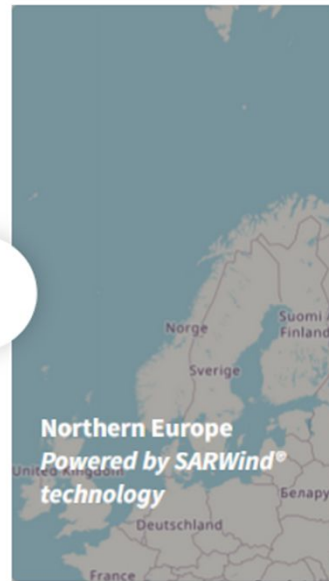
Offshore Met Mast

Area selection

Offshore Met Mast

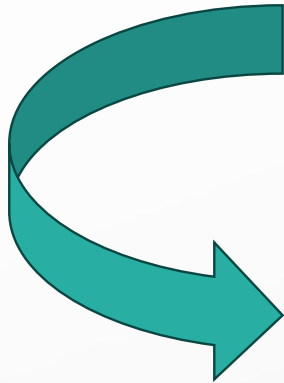
Select the geographic area for your project.

Products marked "Powered by SARWind® technology" benefit from observations derived from SAR satellite data.





Wind Data Portal | Offshore Met Mast – Europe



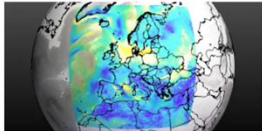
meteoDYN

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Onshore and Offshore Met Mast – Europe

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Wind data dedicated to wind resource assessment

Technical details

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- **Available period:** 1984-2022
- **Delivery time:** 30 min (Advanced), few days (Premium-CFD)
- **Format:** CSV, JPEG (Wind rose)
- **Horizontal resolution:** 5.5 km (Advanced), 50 meters (Premium-CFD)
- **Temporal resolution:** 1 hour (Advanced and Premium-CFD)
- **Heights:** 10-300 meters
- **Compatibility:** Meteodyn WT, Excel, Python

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Define the location of your project

Quality: Choose an option

Point 1

Latitude (deg) * Longitude (deg) *

Must be in the blue zone Must be in the blue zone

Please enter a number from 35 to 70 Please enter a number from -10 to 35

Reference height H (m) *

Please enter a number from 10 to 300.

Additional heights

H -50m +400,00 €

H +50m +400,00 €

[Add a point](#)

Total 0.00 €

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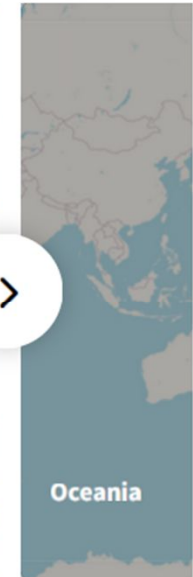
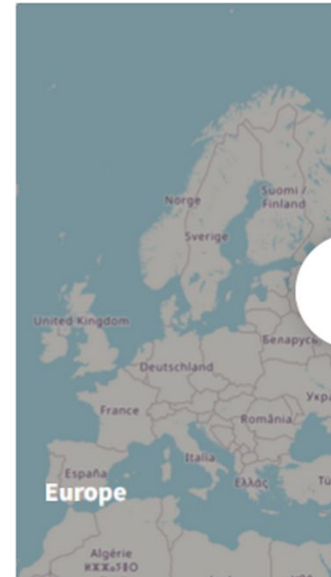
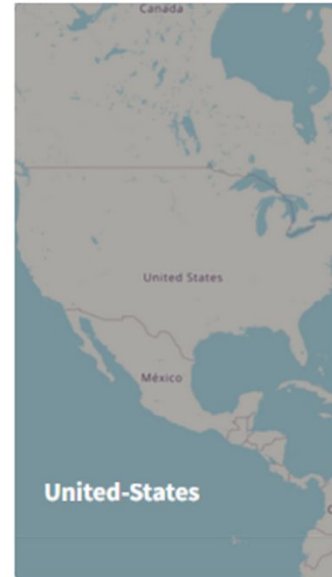
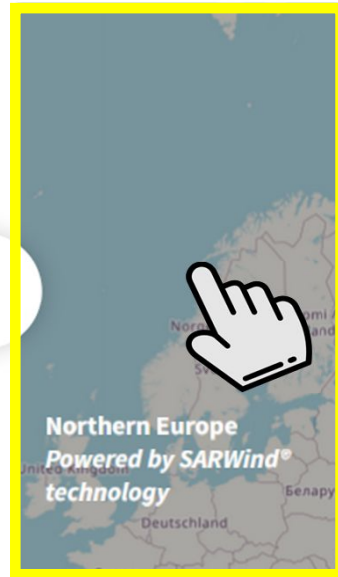
Offshore Met Mast

Area selection

Offshore Met Mast

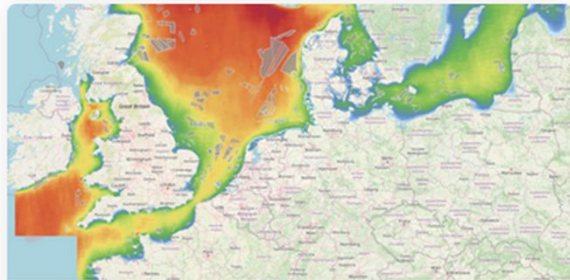
Select the geographic area for your project.

Products marked "Powered by SARWind® technology" benefit from observations derived from SAR satellite data.





Wind Data Portal | Offshore Met Mast – Northern Europe



Offshore Met Mast

Powered by **SARWind® technology***

Time series

Take advantage of 20 years of offshore wind data from **SAR satellite observations** (330,000+ **SAR images** processed worldwide) for heights ranging from 10 to 150 meters.

More accurate, this innovative technology is based on satellite observations and quality validation.**

**Availability varies by area.*

***2.9% increase in performance on gross AEP (without wake losses), compared to digital datasets.*

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FORUM 22
10:50 – 11:10 UHR

SARWind: Offshore WRA based on HD satellite measurements

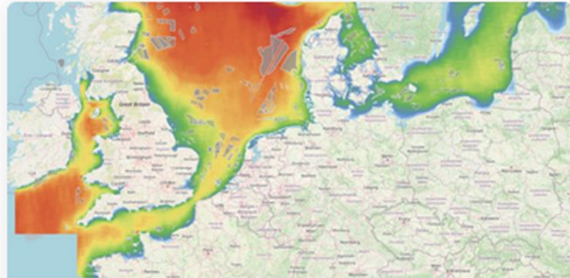
Windenergietage 2025 – Potsdam, 12-14 November 2025

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Wind Data Portal | Offshore Met Mast – Northern Europe



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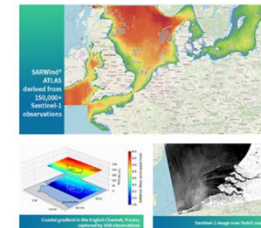
HOME » SHOP » OFFSHORE MET MAST POWERED BY SARWIND® TECHNOLOGY – NORTHERN EUROPE

Offshore Met Mast powered by SARWind® technology – Northern Europe

Quickly assess the wind potential of your offshore projects in Northern Europe with our high-precision measurement mast.

This innovative product is derived from the Measure-Correlate-Predict (MCP) method and based on satellite observations via SARWind® technology. Our unique solution, scientifically validated and recognized by our industrial partners, provides direct access to localized, accurate, high-resolution wind data in line with the specific requirements of the offshore wind industry.

Accelerate your decision-making process and secure your investments with our offshore wind solution.



SARWind® satellite wind data dedicated to offshore wind resource assessment

Technical details

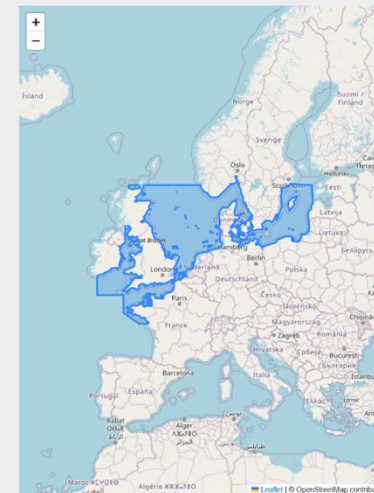
- **Deliverables:** Time series
- **Variables:** Wind speed and direction
- **Available period:** 2004-2024
- **Delivery time:** Few hours (average) to 2 weeks (max.), depending on the area
- **Horizontal resolution:** 500m
- **Temporal resolution:** 1 hour
- **Heights:** 100m, 150m, 250m
- **Format:** CSV, PNG (Wind rose)
- **Compatibility:** Excel, Python

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Do you need data on another geographic area? [Contact us](#)

Technical details



Define the location of your project

Point 1

Latitude (deg)* Longitude (deg)*

Must be in the blue zone Must be in the blue zone

Please enter a number from 46.8 to 59.8 Please enter a number from -9.8 to 21.8

Height (m)*

100

[Add a point](#)

Total 0.00 €

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Coordinates

Heights





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Wind Data Portal

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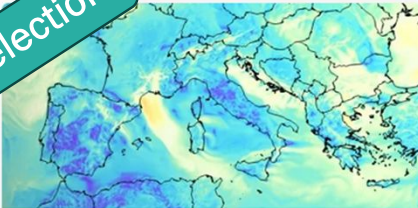
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Product selection



Onshore Met Mast

Powered by CFD technology*

Time series

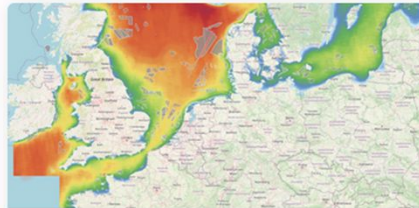
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For all sites, the development of wind farms (Greenfield) or prior to measurement campaigns.

**Premium CFD quality, including micro-scale effects with a horizontal resolution of 50 meters, topography, and local atmospheric stability.*

***Duration varies depending on the area and data source.*

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Offshore Met Mast

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Time series

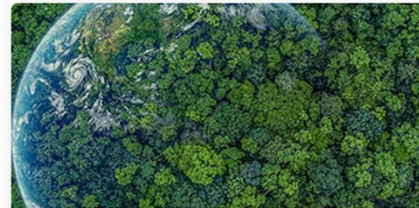
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Climate Change Analytics (CCA)

Statistical trends

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Wind Data Portal | Climate Change Analytics (CCA)



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The screenshot displays the Meteorwin website interface. At the top, the navigation menu includes 'HOME', 'SHOP', and 'CLIMATE CHANGE ANALYTICS (CCA)'. The main heading is 'Climate Change Analytics (CCA)'. Below this, there is a section titled 'Climate projections for your projects' with 'Technical details' listed: Deliverables (Statistical trends), Variables (Wind speed, AEP), Available period (2030-2050 and 2090), Delivery time (24 heures), Horizontal resolution (11-44 km), Temporal resolution (Monthly), Heights (10-300 meters), Format (CSV), and Compatibility (Excel, Python). There are 'Order' and 'Go back to the store' buttons. Below this is a form titled 'Define the location of your project' with fields for Latitude, Longitude, Height, and Climate Horizon. There is also an 'Option' section for 'Projections of annual energy production' with a price of +300,00 €. The total price shown is 0,00 €. The website footer includes the Meteorwin logo and the text '15'.

Technical details

Coordinates

Heights
Climate Horizon

Option





Wind Data Portal | Climate Change Analytics (CCA)



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a CLS Group Company

FORUM 22
11:10 – 11:30 UHR

Regional impact of Climate Change on Annual Energy Production

Windenergietage 2025 – Potsdam, 12-14 November 2025

Eric TROMEUR, PhD – Director Research, Innovation, Service & Expertise

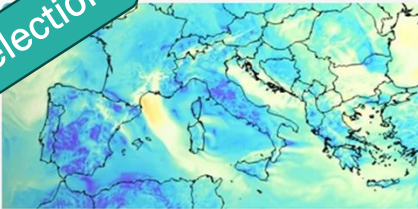




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Product selection



Onshore Met Mast

Powered by CFD technology*

Time series

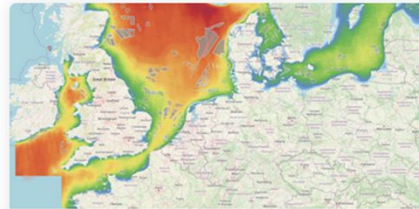
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Wind Data Portal | Meso-Micro Coupling (MMC)



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Meso-Microscale Coupling (MMC)

Improve the accuracy of your wind resource assessment studies in Meteodyn WT software. Order your Meso-Microscale Coupling (MMC) data today to start integrating regional mesoscale atmospheric effects within your microscale CFD simulations.

Download a Meso-Microscale Coupling SAM file dedicated to Meteodyn WT

Technical details

- **Deliverables:** Statistical series
- **Variables:** Wind speed and direction, atmospheric stability
- **Available period:** 1940-2024
- **Compatibility:** Meteodyn WT
- **Horizontal resolution:** 3 km
- **Format:** Proprietary SAM file
- **Delivery time:** 2 weeks, depending on the area

[Order](#) [Go back to the store](#)

Define the location of your project

Site radius: **25 km**, **50 km**, **100 km**

Point 1

Latitude (deg): Longitude (deg):

Must be in the blue zone. Please enter a number from -90 to 90. Please enter a number from -180 to 180.

Representative year:

Please enter a number from 1950 to 2024.

[Add a point](#)

¹ One-year period either covering met mast data or being a long-term representative year. If you have any questions about which year to select, please [contact us](#) before placing your order.

Total 0.00 € [Add to cart](#)

Technical details

Coordinates

Year





Wind Data Portal | FAQ

FAQ

What are the sources of the data provided by Meteodyn?



What are the advantages of the Wind Data Portal?



What are the data delivery times?



What is the process for validating the products?



Which data formats are provided?



Are there any free data samples available?



Is there a technical support service available?



Which geographic areas are covered by the data?



Which tools and software are compatible with the data?



Contact

World +33 (0) 240 710 505

China +86 010-64155728

India 91 (20) 27276627

[Contact us](#)





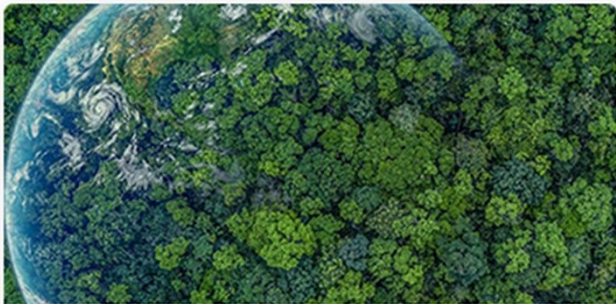
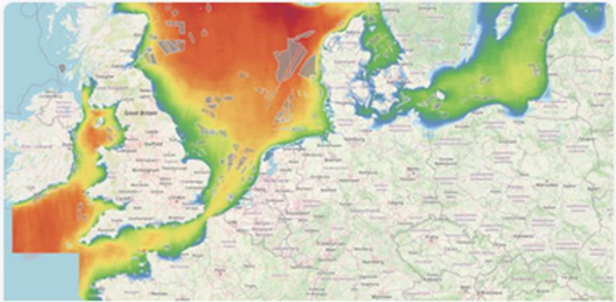
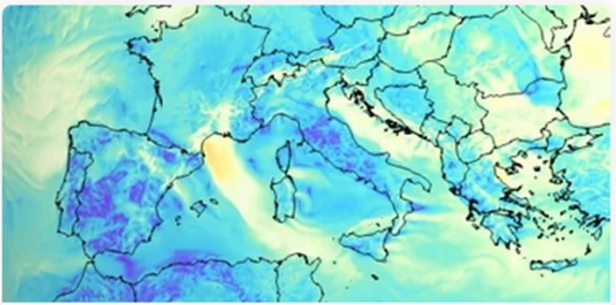
Wind Data Portal | Product Overview

	Variables	Horizontal Res.	Temporal Res.	Heights	Deliverables	Available Period	Format	Compatibility	Delivery Time
Onshore Met Mast									
Advanced*	WS ¹ , WDir ²	3-11km	1h	10-300m	Time Series	≥ 10 years	CSV, JPEG (wind rose)	METEODYN WT, Excel, Python	Hours
Premium CFD*	WS ¹ , WDir ²	50m	1h	10-300m	Time Series	≥ 10 years	CSV, JPEG (wind rose)	METEODYN WT, Excel, Python	Days
Offshore Met Mast									
Advanced*	WS ¹ , WDir ²	3-11km	1h	10-300m	Time Series	≥ 10 years	CSV, JPEG (wind rose)	METEODYN WT, Excel, Python	Hours
Premium CFD*	WS ¹ , WDir ²	50m	1h	10-300m	Time Series	≥ 10 years	CSV, JPEG (wind rose)	METEODYN WT, Excel, Python	Days
Powered by SARWind® Technology**	WS ¹ , WDir ²	500m	1h	100, 150 & 250m	Time Series	20 years	CSV, PNG (wind rose)	Excel, Python	Hours to 2 weeks
Climate Change Analytics									
Premium	WS ¹ , AEP ³	11-44km	Monthly	10-300m	Statistical Trends	2030-2050 or 2090	CSV	Excel, Python	12-24 hours
Meso-Micro Coupling									
Premium	WS ¹ , WDir ² & Stab. ⁴	3km	-	-	Statistical Series	1 year	Proprietary SAM file	METEODYN WT	2 weeks

* If no high-resolution data available: WRF-based Time Series on quotation

** Availability depending on geographical area

¹Wind Speed ; ²Wind Direction ; ³Annual Energy Production ; ⁴Stability



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