

Forecast report Product description

Prepared for:Forecast customerDate:24/06/2024Reference.:RP fcst description Issue 3.7

Document Status Page

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| Rev | Date | Reviewer | Comments |
|-----|------|----------|----------|
| | | | |

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Introduction

The operational weather forecast centre at Infoplaza offers several forecast products. This document offers a description of all parameters and forecast components used in the regular forecast as well as in the 10-day extended forecast. The regular forecast, consisting of a graph section and a table section, is available for up to 7 days ahead in both an automated version and a manual version. The automated version is derived from raw model data. The manual forecast is composed by a marine meteorologist on duty using model data, in situ measurements and satellite data and supplies additional information. The 10-day outlook is only available as an automated product and merely contains graphs.

The operational weather forecast centre can be contacted 24/7 at:

Tel: +31 (0)85 2103 006 weather@infoplaza.com www.infoplaza.com

Regular forecast (tables and graphs)

Warnings & Warnings (24hrs)

Summarized meta data: production date and time (either in UTC or in local time); valid time (either in UTC or in local time); forecaster that produced the forecast; forecast location and maximum expected values during the forecast period.

Warnings (manual forecast only)

Chances of fog or lightning appear as:

- none: less than 10% chance of occurrence;
- low: 10% to 30% chance of occurrence;
- medium: 30% to 60% chance of occurrence;
- high: 60% to 100% chance of occurrence.

A medium or high warning level will always include a textual description of the warning.

Synoptic discussion (manual forecast only)

An overview of the synoptic situation and the expected developments for the next three days is provided.

Comments (manual forecast only)

Any forecaster comments regarding the forecast will be placed here.

Optimal weather risk summary

The optimal weather risk summary or Thresholds section consists of a color-coded warning status based on customer predefined limits. The three levels are "No Risk" (green), "Caution" (orange) and "Warning" (red). The status bar above the graphs indicates the workability during the forecast period.

The primary thresholds as defined by the client are displayed on the graphical forecast page, as well as in tabular form on the next page. If additional thresholds are selected, an additional tabular page is added to the forecast with corresponding warning colors.

Charts

The table below describes each of the elements in the charts and tables in the forecast bulletin.

| Wind Charts | Description |
|-----------------|---------------------------------|
| Arrows below | Direction of 10 meter wind |
| Black line | 10 meter wind speed |
| Blue line | 50 meter wind speed |
| Horizontal axis | Forecast time |
| Left axis | Wind speed in meters per second |
| Right axis | Wind speed in kts |

| Wave Charts | Description |
|-------------------|---------------------------------------|
| Arrows below | Total wave direction |
| Numbers below | Total wave peak period (overall: Tp) |
| Blue line | Swell wave height (swell: Ht) |
| Black line | Significant wave height (overall: Hs) |
| Black dotted line | Maximum wave height (overall: Max) |
| Horizontal axis | Forecast time |
| Left axis | Wave height in meters |
| Right axis | Wave height in feet |

Time series

| Component | Description | Specifications | | |
|------------------|---|--|--|--|
| Date/Time | Forecast date and time | First two days 3-hour time interval, thereafter 6 hour time interval. | | |
| Confidence index | Forecast confidence | 1 bar means low confidence, 2 bars mean medium confidence, 3 bars mean high confidence | | |
| Wind: Dir | Direction of 10 m wind | Wind direction is defined as coming from ¹ . | | |
| Wind: 10m | 10 meter wind speed in knots or m/s | Wind speed at 10m above the surface representing the previous 10 minutes. | | |
| Wind: XXm | XX meter wind speed in knots or m/s | Wind speed at XXm above the surface representing the previous 10 minutes. | | |
| Gust: 10m | 10 meter speed of gusts in knots or m/s | 10 meter wind speed multiplied by a factor dependent on the stability of the atmosphere. | | |
| Gust: XXm | XX meter speed of gusts in knots or m/s | XX meter wind speed multiplied by a factor dependent on the stability of the atmosphere. | | |
| Overall: Hs | Significant wave height in meters | Average of the highest 33% of all wave heights. | | |
| Overall: Hmax | Maximum wave height in meters | Average of the highest 0.1 - 10% of all wave heights, depending on stability parameters. | | |
| Overall: Tz | Mean zero crossing period in seconds | The average time elapsed between two consecutive crests of all waves. | | |
| Overall: Tm | Mean period in seconds | The frequency averaged (energy weighted) wave period of all waves. | | |
| Overall: Dir | Mean wave direction | The mean wave direction of all waves Error! Bookmark not defined | | |
| Sea: Hs | Significant wave height in meters | Average of the highest 33% of wind sea wave heights ¹ . | | |
| Sea: Tz | Mean zero crossing period in seconds | The average time elapsed between two consecutive up-crossings (crests) of the wind sea waves. | | |
| Sea: Tp | Peak period in seconds | Period of the dominant waves within the wind sea wave group. | | |
| Sea: Dir | Peak direction | Direction of the dominant waves within the wind sea wave group. | | |
| Swell: Hs | Significant wave height in meters | Average height of the highest third of waves in the total or 1 st swell wave group | | |
| Swell: Tz | Mean zero crossing period in seconds | Average time elapsed between two consecutive up- crossings (crests) of the waves in the total or 1 st swell wave group. | | |
| | | | | |

| Swell: Tm | Mean period in seconds | Frequency averaged and energy weighted mean period of waves in the total or 1 st swell wave group (Tm -1,0) |
|-----------------|------------------------|--|
| Swell: Tp | Peak period in seconds | Period of the dominant waves in the total or 1 st swell wave group. |
| Swell: Dir (θο) | Mean direction | Frequency averaged and energy weighted mean direction of waves in the total or 1 st swell wave group |
| Swell: Dir (θp) | Peak direction | Direction of waves with the highest energy in the total or 1 st swell wave group |

Note: If multiple swells are provided, then swells are sorted by increasing average of the mean wave period (Tm -1,0 averaged over the forecast period).

| Swell2: Hs | Significant wave height in meters | Average height of the highest third of waves in the 2 nd swell wave group |
|----------------------------|---------------------------------------|---|
| Swell2: Tz | Mean zero crossing period in seconds | Average time elapsed between two consecutive up-crossings (crests) of the waves in the 2 nd swell wave group. |
| Swell2: Tm | Mean period in seconds | Frequency averaged and energy weighted mean period of waves in The 2 nd swell wave group (Tm - 1,0) |
| Swell2: Tp | Peak period in seconds | Period of the dominant waves in the 2 nd swell wave group. |
| Swell2: Dir (θο) | Mean direction | Frequency averaged and energy weighted mean direction of waves in the 2 nd swell wave group |
| Swell: Dir (θp) | Peak direction | Direction of waves with the highest energy in the 2 nd swell wave group |
| Weather: Sym or Weather | Weather description | |
| Weather: Vis | Visibility in kilometers | |
| Weather: Cldbase | Cloudbase in feet | |
| Weather: T | Air temperature in degrees Celsius | |

| Weather: T 50m | Air temperature at 50m in degrees Celsius | |
|----------------------------|--|---|
| Weather: MSLP | Mean sea level pressure in hPa | Atmospheric pressure at sea level |
| Weather: Precip | Precipitation in mm per hour | Hourly precipitation accumulated |
| Weather: WBGT | Wet Bulb Globe Temperature | A temperature index to indicate the heat stress caused by humidity, temperature and radiation |
| Weather: Wind chill | Wind chill temperature in degrees Celsius | Perceived decrease in air temperature on exposed skin due to the flow of air. |
| Weather: Wind chill 50m | Wind chill temperature at 50m in degrees Celsius | Perceived decrease in air temperature on exposed skin due to the flow of air. |

¹ The wind sea is the group of waves that receive energy from the wind as they travel slower than the air particles. All other waves are considered to be swell.

Scenario forecast (15 day outlook)

The Infoplaza 15-day outlook is a probabilistic forecast based on the model ensembles. It consists of a set of forecasts that present the range of model run possibilities. Multiple simulations are run, each with a slightly different starting condition. These variations represent the uncertainty in the initial conditions and approximations in the models. They produce a range of possible weather conditions. This ensemble or scenario forecast is available for the following meteorological parameters:

- Wind speed at 10m
- Wind direction at 10m
- Significant wave height
- Significant wave direction

The respective charts will be briefly discussed in the sections below. For a sample forecast, please refer to Appendix C and D. Note that the sample forecast shows all available parameters, while your forecast may contain only a subset of the listed parameters. The 10-day outlook is an automated product and is currently only available for sites (not for routes).

Wind speed

The graph depicts the wind speed at 10 meters above surface level averaged over the 10 minutes preceding the forecast time. It is represented by a box-whisker chart, with the forecast

time on the horizontal axis and the wind speed on the vertical axis. The ensemble median (second quartile) is represented as a continuous line. The large boxes indicate the bottom and top of the 25th and 75th percentile (the lower and upper quartiles, respectively), while the small boxes indicate the 10th and 90th percentile (40% on both sides of the median). The whiskers indicate the minimum and maximum values of all ensemble members for that time step.

In short, the continuous line indicates the ensemble mean, the large boxes represent a 50% probability, the small boxes denote an 80% probability, and the whiskers indicate the full spread of the ensemble forecast.

Wind direction

The wind direction forecast is represented by a polar plot. The most likely wind direction (ensemble median) is represented by the black line, while the shaded area indicates an 80% chance that the wind direction will be blowing from that direction.

Temperature

The temperature forecast is represented by a box-whisker chart, with the forecast time on the horizontal axis and the temperature on the vertical axis. The ensemble median (second quartile) is represented as a continuous line. The large boxes indicate the bottom and top of the 25th and 75th percentile (the lower and upper quartiles, respectively), while the small boxes indicate the 10th and 90th percentile (40% on both sides of the median). The whiskers indicate the minimum and maximum values of all ensemble members for that time step.

In short, the continuous line indicates the ensemble mean, the large boxes represent a 50% probability, the small boxes denote an 80% probability, and the whiskers indicate the full spread of the ensemble forecast.

Precipitation

The precipitation forecast is represented by a box-whisker chart, with the forecast time on the horizontal axis and the precipitation chance on the vertical axis. The ensemble median (second quartile) is represented as a continuous line. The large boxes indicate the bottom and top of the 25th and 75th percentile (the lower and upper quartiles, respectively), while the small boxes indicate the 10th and 90th percentile (40% on both sides of the median). The whiskers indicate the minimum and maximum values of all ensemble members for that time step.

In short, the continuous line indicates the ensemble mean, the large boxes represent a 50% probability, the small boxes denote an 80% probability, and the whiskers indicate the full spread of the ensemble forecast. Please note that the graph contains no information on the amount of precipitation.

Relative humidity

The relative humidity is represented by a box-whisker chart, with the forecast time on the horizontal axis and the relative humidity on the vertical axis. The ensemble median (second quartile) is represented as a continuous line. The large boxes indicate the bottom and top of the 25th and 75th percentile (the lower and upper quartiles, respectively), while the small boxes indicate the 10th and 90th percentile (40% on both sides of the median). The whiskers indicate the minimum and maximum values of all ensemble members for that time step.

In short, the continuous line indicates the ensemble mean, the large boxes represent a 50% probability, the small boxes denote an 80% probability, and the whiskers indicate the full spread of the ensemble forecast.

Cloud cover

The cloud cover is represented by a box-whisker chart, with the forecast time on the horizontal axis and the total cloud cover on the vertical axis. The ensemble median (second quartile) is represented as a continuous line. The large boxes indicate the bottom and top of the 25th and 75th percentile (the lower and upper quartiles, respectively), while the small boxes indicate the 10th and 90th percentile (40% on both sides of the median). The whiskers indicate the minimum and maximum values of all ensemble members for that time step.

In short, the continuous line indicates the ensemble mean, the large boxes represent a 50% probability, the small boxes denote an 80% probability, and the whiskers indicate the full spread of the ensemble forecast.

2D spectra

In the 2D spectra section, the spectrum and the dominant wave directions are analysed to determine where most of the energy is concentrated. This analysis also helps us differentiate between swell (waves with a longer period generated by distant weather systems) and sea waves (waves with a shorter period generated by local winds). Each wave partition has its own set of characteristics, such as mean and peak wave period and significant wave height. The significant wave height is described as the average height of the highest one-third of waves in a partition.

The visualizations in the Marine Weather Dashboard consist of

- A 3D plot showing the normalized wave energy as a function of the period and time.
- A polar plot depicting the full wave spectrum for the selected time step, adding directional information.
- A graph showing the normalized wave energy for your forecast location as a function of time.

All plots are interactive; using the slider in the bottom plot will indicate the respective elements and values in the other plots.

Appendices

Appendix A_1: Example forecast report wind/wave (graph)

19 kts



(1) Client Demo - Sample location Lecation: Lat 84.316 N / Lon 2.619 E Forecast issued by Rob Koenders at 09:00 (UTC) Wed 26 Apr 2023. Next update 09:00 (UTC) Thu 27 Apr 2023 Email: weather@infoplaza.nl / Phone: +31 (0) 85 210 3006

Caution 2.0 m

16 kts



ary & Warnings (+ 24 Hours) Threshold Exceedance

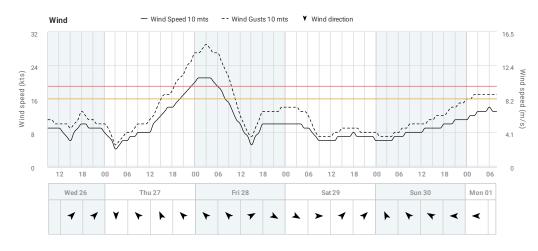
| | (- · · · · · · · <i>,</i> | | |
|-----------------|-----------------------------------|--------------|-------|
| Lightning Risk: | None | Critical 10m | winds |
| Fog Risk: | None | | |
| Gale: | None | Risk Level | Cau |
| 10m Max Wind: | 10 kts | Sig. Wave: | 2.0 |
| 10m Wind Gust: | 13 kts | 10m wind | 16 |
| Wave height: | 1.7 m | | |
| SST: | 3'8 | | |
| SunRise / Set: | 05:24 // 20:12 | 2 | |
| Timezone: | UTC | | |
| | | | |

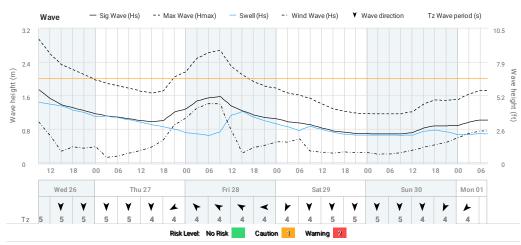
tic situation: [Wed 26-Apr-2023 04:00 UTC] Low pressure lingers over Sweden while Simple strategies and the second strategies and the second strategies and the second strategies with the second strategies and the UK; showly shifting NE over the North Sea and reaching Denmark on Thursday, By there, a fornulat trough associated with an Atlantic low approaches the southern North Sea; possibly spawning a separate low on Friday

Forecaster Comme

s: Nil

Optimal Weather Risk Summary





For an explanation of the wind and wave parameters, please learn more here: https://www.infoplaza.nl/offshore-forecast-description

For an apparament of the wind and wave parameters, precedent increment in the similar and may also be privileged. It is for the exclusive use of the intended recipient(s). If you are not the intended recipient(s) please note distribution, organize and the intended recipient in it is strictly provided in a be unavoid. If you have received this communication in error, please return it to the sender.
Intropiaza Marine Weather - All Rights Reserved. Infoplaza BV, Shepboot 5, 3991 ON Houten, The Netherlands se note that any form of

Appendix B: Example forecast report (table)



(1) Client Demo - Sample location

(1) CIRENTE DETITO * Generate receiver. Location: Lat 54.316 N / Lon 2.619 E Forecast issued by Rob Koenders at 09:00 (UTC) Wed 26 Apr 2023. Next update 09:00 (UTC) Thu 27 Apr 2023 Email: weather@infoplaza.nl / Phone: +31 (0) 85 210 3006



| Summary & Warning | s (+ 24 Hours) | Threshold E | xceedance | |
|---|--|--|--|-------------------|
| Lightning Risk: Fog Risk: Gale: 10m Wank Wind: 10m Wind Gust: Wave height: SST: SunRice / Set: Timmezone: | None None 10 kts 13 kts 1.7 m 8°C 05:24 / 20:12 UTC | Critical 10m Risk Level Sig. Wave: 10m wind | winds Caution 2.0 m 16 kts | Warning 19 kts |

Forecaster Comments

Warnings: Nil

Synoptic situation: [Wed 26-Apr-2023 04:00 UTC] Low pressure lingers over Sweden while filling. A strong high over Iceland extends a ridge across the UK; slowly shifting NE over the North Sea and reaching Denmark on Thursday. By then; a frontal trough associated with an Atlantic low approaches the southern North Sea; possibly spawning a separate low on Friday.

Comments: Nil

| | Time | Winds Sea | | | | | | | Weather | | | | |
|------|------------|-----------|---------|--------------|-----|-----------|-------|-----------|---------|-----|-------|-----|---------------|
| × | (JTU) | Dir | 10m | 10m | | Waves | v | Vind wave | 8 | | Swell | | Temp |
| Risk | (| | speed | gusts | Hs | Hmax | Ht | θρ | Tp | Ht | 0p | Тр | |
| | | (°) | (kts) | (kts) | (m) | (m) | (m) | (*) | (8) | (m) | ෆ් | (8) | (3 °) |
| | Wed 26 Apr | | | | | | | | | | | | |
| | 09:00 | 290 | 9 | 11 | 1.7 | 3.0 | 1.0 | 317 | 4 | 1.4 | 5 | 9 | 6 |
| | 12:00 | 266 | 9 | 10 | 1.5 | 2.6 | 0.6 | 309 | 4 | 1.4 | 4 | 9 | 6 |
| | 15:00 | 233 | 6 | 9 | 1.4 | 2.3 | 0.3 | 277 | 3 | 1.4 | 4 | 9 | 6 |
| | 18:00 | 246 | 10 | 13 | 1.3 | 2.2 | 0.4 | 308 | 4 | 1.3 | 3 | 9 | 6 |
| | 21:00 | 225 | 9 | 11 | 1.2 | 2.1 | 0.3 | 271 | 3 | 1.2 | 3 | 8 | 7 |
| | Thu 27 Apr | | | | | | | | | | | | |
| | 00:00 | 233 | 8 | 10 | 1.2 | 2.0 | 0.4 | 260 | 3 | 1.1 | 2 | 8 | 7 |
| | 03:00 | 353 | 4 | 5 | 1.1 | 1.9 | 0.1 | 344 | 2 | 1.1 | 1 | 8 | 7 |
| | 06:00 | 83 | 6 | 8 | 1.1 | 1.8 | 0.1 | 55 | 3 | 1.1 | 1 | 8 | 7 |
| | 09:00 | 131 | 8 | 10 | 1.0 | 1.8 | 0.2 | 139 | 4 | 1.0 | 1 | 8 | 7 |
| | 12:00 | 164 | 8 | 11 | 1.0 | 1.7 | 0.3 | 166 | 4 | 1.0 | 1 | 8 | 8 |
| | 15:00 | 152 | 12 | 16 | 1.0 | 1.7 | 0.4 | 177 | 3 | 0.9 | 360 | 8 | 8 |
| | 18:00 | 137 | 14 | 18 | 1.0 | 1.7 | 0.5 | 171 | 3 | 0.8 | 359 | 8 | 8 |
| 1 | 21:00 | 125 | 17 | 22 | 1.2 | 2.0 | 0.9 | 151 | 4 | 0.8 | 1 | 8 | 8 |
| | Fri 28 Apr | | | | | | | | | | | | |
| 2 | 00:00 | 124 | 20 | 27 | 1.3 | 2.2 | 1.1 | 139 | 4 | 0.7 | 0 | 8 | 8 |
| 2 | 03:00 | 138 | 21 | 29 | 1.5 | 2.5 | 1.3 | 139 | 5 | 0.7 | 1 | 8 | 8 |
| 1 | 06:00 | 124 | 19 | 27 | 1.5 | 2.6 | 1.4 | 135 | 6 | 0.6 | 2 | 8 | 8 |
| | 09:00 | 126 | 15 | 21 | 1.6 | 2.7 | 1.4 | 129 | 6 | 0.7 | 3 | 8 | 8 |
| | 12:00 | 133 | 10 | 12 | 1.4 | 2.3 | 0.8 | 127 | 4 | 1.1 | 123 | 6 | 8 |
| | 15:00 | 246 | 5 | 7 | 1.2 | 2.1 | 0.2 | 186 | 2 | 1.2 | 116 | 6 | 8 |
| | 18:00 | 302 | 10 | 13 | 1.1 | 1.9 | 0.4 | 281 | 3 | 1.1 | 107 | 6 | 9 |
| | 21:00 | 287 | 10 | 13 | 1.1 | 1.8 | 0.4 | 265 | 3 | 1.0 | 99 | 6 | 9 |
| | Sat 29 Apr | | | | | | | | | | | | |
| | 00:00 | 292 | 10 | 14 | 1.0 | 1.8 | 0.5 | 278 | 3 | 0.9 | 89 | 6 | 8 |
| | 03:00 | 287 | 10 | 14 | 1.0 | 1.7 | 0.5 | 286 | 3 | 0.8 | 85 | 6 | 8 |
| | 06:00 | 324 | 9 | 12 | 0.9 | 1.6 | 0.6 | 312 | 4 | 0.8 | 4 | 8 | 8 |
| | 09:00 | 275 | 6 | 7 | 0.9 | 1.5 | 0.3 | 292 | 2 | 0.9 | 5 | 8 | 8 |
| | 12:00 | 241 | 6 | 7 | 0.8 | 1.4 | 0.2 | 268 | 3 | 0.8 | 4 | 8 | 9 |
| | 18:00 | 221 | 8 | 9 | 0.7 | 1.2 | 0.3 | 238 | 4 | 0.7 | 3 | 8 | 10 |
| | Sun 30 Apr | | | | | | | | | | | | |
| | 00:00 | 198 | 6 | 8 | 0.7 | 1.2 | 0.2 | 266 | 3 | 0.7 | 0 | 8 | 9 |
| | 06:00 | 120 | 7 | 8 | 0.7 | 1.2 | 0.2 | 92 | 3 | 0.7 | 355 | 9 | 9 |
| | 12:00 | 119 | 8 | 10 | 0.7 | 1.2 | 0.3 | 51 | 3 | 0.7 | 353 | 8 | 9 |
| | 18:00 | 101 | 10 | 12 | 0.9 | 1.5 | 0.4 | 29 | 4 | 0.8 | 354 | 8 | 9 |
| | Mon 01 May | | | | | | | | | | | | |
| | 00:00 | 92 | 11 | 16 | 0.9 | 1.5 | 0.6 | 36 | 4 | 0.7 | 357 | 9 | 8 |
| | 06:00 | 80 | 14 | 17 | 1.0 | 1.7 | 0.8 | 69 | 4 | 0.7 | 352 | 11 | 8 |
| | 12:00 | 60 | 13 | 16 | 1.0 | 1.7 | 0.7 | 64 | 4 | 0.6 | 352 | 10 | 8 |
| | 18:00 | 28 | 12 | 16 | 1.0 | 1.7 | 0.8 | 40 | 5 | 0.7 | 353 | 12 | 7 |
| | | | Bj k. k | evel: No Ris | .be | Caution 1 | Warni | ng 2 | | | | | |

For an explanation of the wind and wave parameters, please learn more here: https://www.infoplaza.nl/offshore-forecast-description

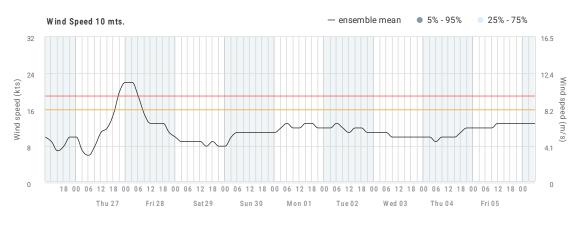
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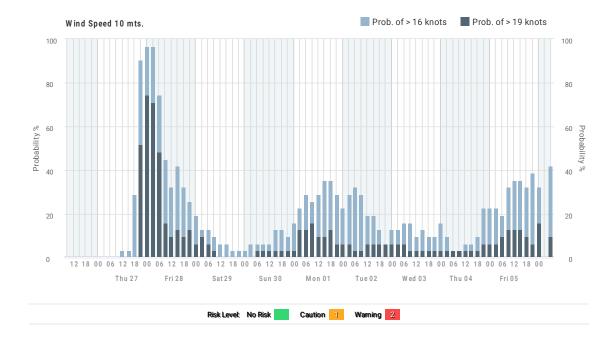
Appendix C: Example forecast report 1/2 (10-day outlook)

(1) Client Demo - Sample location

Location: Lat 54.316 N / Lon 2 619 E Scenario probabilities representative for offshore conditions Forecast issued by the weather computer at 09.00 (UTC) Wed 26 Apr 2023. Next update 09.00 (UTC) Thu 27 Apr 2023 Email: weather@infoplaza.nl / Phone: +31 (0) 85 210 3006







For an explanation of the wind and wave parameters, please learn more here: https://www.infoplaza.nl/offshore-forecast-description

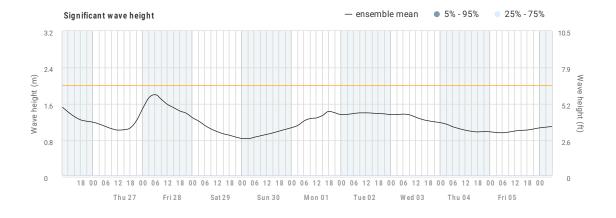
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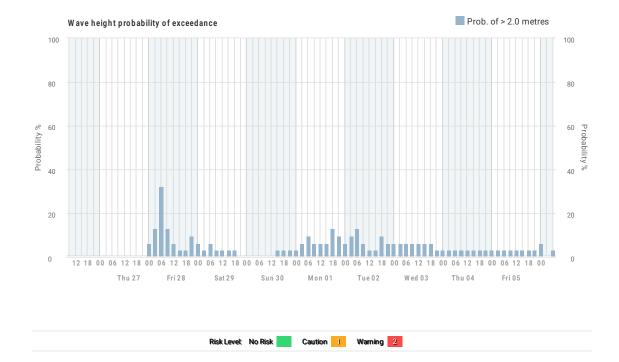
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Appendix D: Example forecast report 1/2 (10-day outlook)

(1) Client Demo - Sample location

Location: Lat 54.316 N / Lon 2.619 E Scenario probabilities representative for offshore conditions Forecast issued by the weather computer at 09.00 (UTC) Wed 26 Apr 2023. Next update 09.00 (UTC) Thu 27 Apr 2023 Email: weather@infoplaza.nl / Phone: +31 (0) 85 210 3006





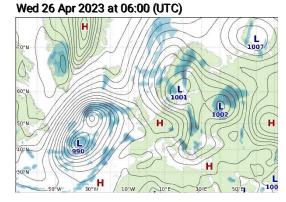
For an explanation of the wind and wave parameters, please learn more here: https://www.infoplaza.nl/offshore-forecast-description

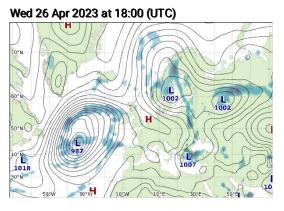
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Appendix E: Example synoptic chart

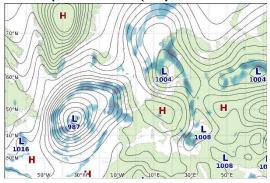
Synoptic Charts for - Atlantic NE - Sea level pressure and precipitation Forecast issued by the weather computer at 09:00 (UTC) Wed 26 Apr 2023. Next update 09:00 (UTC) Thu 27 Apr 2023 Email: weather@infoplaza.nl/ Phone: +31 (0) 85 210 3006

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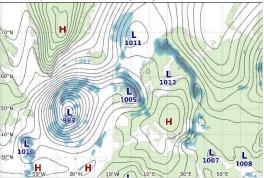




Thu 27 Apr 2023 at 06:00 (UTC)



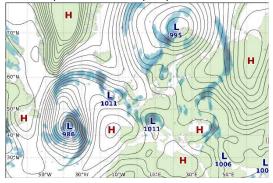
Fri 28 Apr 2023 at 06:00 (UTC)







Sun 30 Apr 2023 at 06:00 (UTC)



For an explanation of the wind and wave parameters, please learn more here: https://www.infoplaza.nl/offshore-forecast-description

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Appendix F: Beaufort scale

| Beaufort wind scale | Wind speed (Knots) | Wind speed (m/s) | Wind descriptive terms | Expected wave height in meters* | Sea state | Sea descriptive terms |
|------------------------|-----------------------|---------------------|------------------------------|---------------------------------------|--------------|--------------------------|
| 0 | <1 | <0.5 | Calm | - | 0 | Calm (glassy) |
| 1 | 1-3 | 0.5-1.5 | Very light | 0.1 | 1 | Calm (rippled) |
| 2 | 4-6 | 1.6-3.3 | Light breeze | 0.2 | 2 | Smooth (wavelets) |
| 3 | 7-10 | 3.4-5.5 | Gentle breeze | 0.6 | 3 | Slight |
| 4 | 11-16 | 5.5-7.9 | Moderate breeze | 1.0 | 3-4 | Slight-Moderate |
| 5 | 17-21 | 8-10.7 | Fresh breeze | 2.0 | 4 | Moderate |
| 6 | 22-27 | 10.8-13.8 | Strong breeze | 3.0 | 5 | Rough |
| 7 | 28-33 | 13.9–17.1 | Near gale | 4.0 | 5-6 | Rough-Very rough |
| 8 | 34-40 | 17.2-20.7 | Gale | 5.5 | 6-7 | Very rough–High |
| 9 | 41-47 | 20.8-24.4 | Strong gale | 7.0 | 7 | High |
| 10 | 48-55 | 24.5-28.4 | Storm | 9.0 | 8 | Very High |
| 11 | 56-63 | 28.5-32.6 | Violent storm | 11.5 | 8 | Very High |
| 12 | 64+ | >32.6 | Hurricane | 14+ | 9 | Phenomenal |

*These values refer to developed wind waves at the open sea