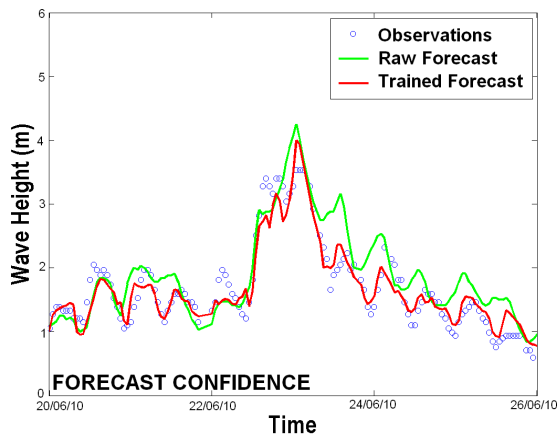
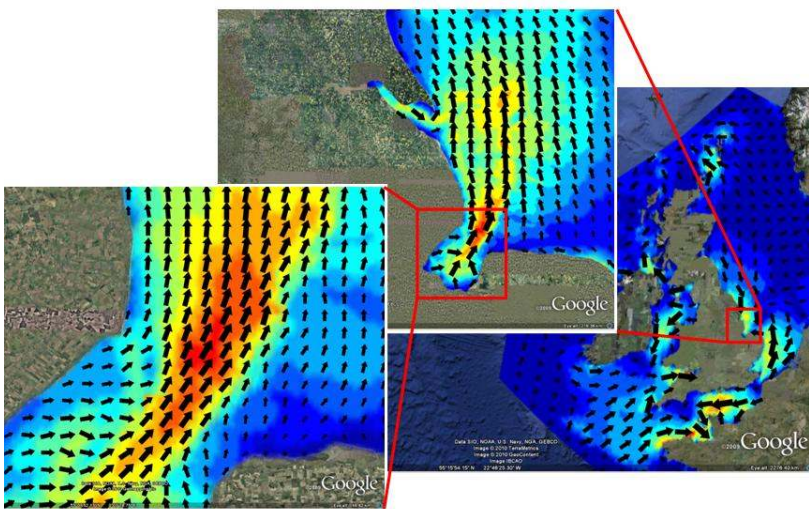
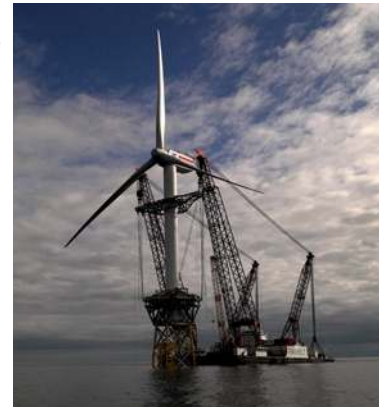


### About

Working in the changeable and sometimes harsh marine environment poses a number of challenges. Having the most up-to-date seastate/metocean information from the right geographic location is essential to ensure that marine operations and developments achieve maximum efficiency with minimum risk.

**SEASTATES**, the metocean information service from ABPmer, combines real-time observations with accurate forecasts to the user on demand. Whilst a combination of interface tools enables the user to tailor the information on past, present and future conditions to their exact requirements.

**SEASTATES** is the first service to offer a customised integrated forecasting, data management and analysis service all in one site.

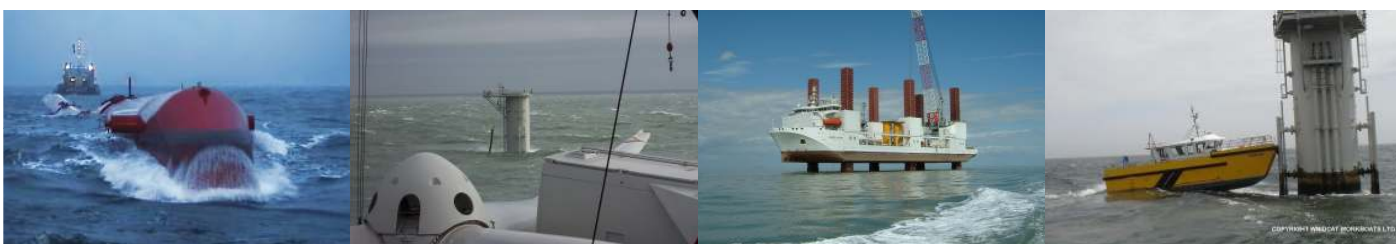


### Metocean Forecasting

Our **SEASTATES** forecasting tool provides high resolution and data assimilation to obtain the most accurate forecast in the exact area of interest.

Our forecast service offers:

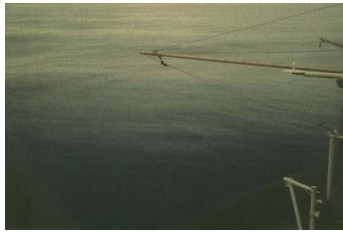
- Large number of parameters, including tidal currents, water levels, wind, wave and swell.
- 4 forecast updates per day, looking up to 5 days ahead.
- Flexible mesh design enabling higher resolution to be provided in areas of interest (< 500m resolution).
- Assimilation of real-time data, allowing the model to be 'trained' improving the accuracy of 'raw' forecasts.
- Inclusion of predictions of tidal water levels and storm surges to improve accuracy of wave forecasts in shallow water.
- Archive of forecast history to provide measure of forecast confidence.
- Bespoke delivery options, including exceedance alerts.



### Further Information

Please phone David Lambkin, ABPmer : 02380 711874  
[www.abpmer.co.uk](http://www.abpmer.co.uk) [www.seastates.net](http://www.seastates.net)



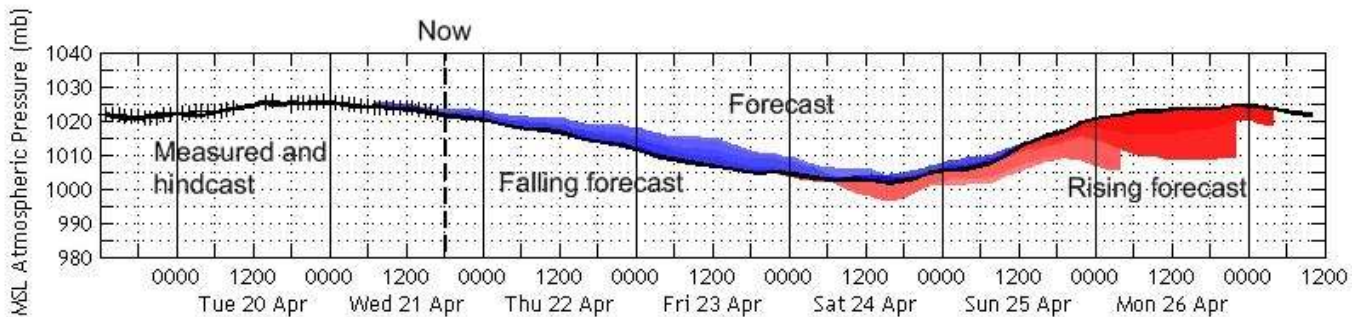


Images courtesy of NOAA

### Operational Toolkit

Our **SEASTATES** toolkit of operational planning aids has been developed based on ABPmer's scientific and practical experience in both metocean data analysis and operational planning. **SEASTATES** analysis tools combine to inform your decisions. Tools presently include:

- Crest level analysis
- Exceedance analysis
- Extremes analysis
- Joint probability analysis
- Persistence analysis
- Spectral analysis
- Spells analysis



Example: The time series plot from an offshore location in the west shows falling mean sea level (MSL) atmospheric pressure in the coming days; the blues and reds of the plot indicate the trend of the forecast in comparison to previous forecasts, as it is updated. The filmstrip shows the changing wind field and the resulting patterns of increasing wave height as the system passes, later returning to calmer conditions.

### Data Management

To make the most of large quantities of data, a robust data management approach is required. **SEASTATES** offers a flexible data management service, making the most of the cumulative data set developed throughout the project lifecycle. ABPmer has experience providing data management services and is able to offer a range of bespoke approaches.

Services include:

- Data archiving
- Data mining
- Online and offline data review and reporting
- Telemetered real-time data viewing
- User defined alerts for wind, wave or water level exceedance

All wave data		Export			
Date	Day	Time	Height (m)	Peak (s)	Direction (Deg)
25/03/2009	Wednesday	00:00	3.28	349	↑ 10.6
25/03/2009	Wednesday	01:00	3.53	354	↑ 8.5
25/03/2009	Wednesday	02:00	3.53	349	↑ 9.8
25/03/2009	Wednesday	03:00	3.28	349	↑ 9.4
25/03/2009	Wednesday	04:00	3.40	354	↑ 9.1
25/03/2009	Wednesday	05:00	3.53	343	↑ 9.0
25/03/2009	Wednesday	06:00	3.53	354	↑ 9.1
25/03/2009	Wednesday	07:00	3.28	0	↑ 9.6



### Further Information

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