



MUIR MATHESON
WEATHER MONITORING

UK WebMET – Metocean Data Network

31/01/2008



Real-time Metocean data available to the offshore industry through internal company networks or over the World Wide Web (www.uk.mmwebmet.com).

WebMET has been developed by Muir Matheson to meet the needs of the offshore oil and gas industry following two reports:

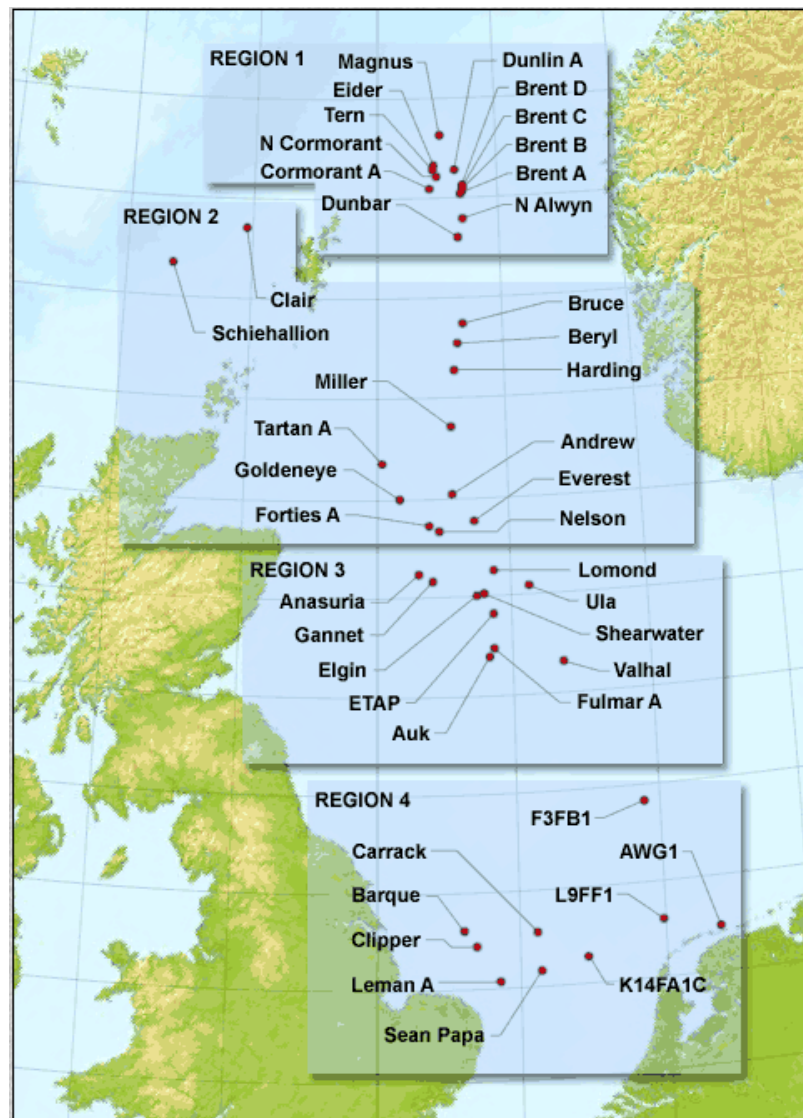
1. 'Weather Sensitive Offshore Operations and Metocean Data' – HSE 2000
2. 'A Coordinated Approach for Metocean Activities' – UKOOA Metocean Committee 2002

Shell METNET provided the foundation to launch this inter-company network which uses OPNET, operated by Data Marine Systems Ltd. Aberdeen, to allow the secure exchange of data. Measurements of wind, waves, temperature, humidity, pressure, cloud and visibility are distributed and archived by the system and this real-time data can be linked to site specific weather forecasts.

Supported By:

- BP *
- Exxon Mobil *
- Fairfield *
- Health & Safety Executive
- Met Office *
- Nowcasting
- Shell Expro *
- Talisman *
- Total *
- WNU Oceanroutes
- WNI

* Data Contributor



Benefits:

- Real-time quality controlled data
- Integration with weather forecasts
- Assists logistics support
- Long term accessible archive
- Secure data transmission
- Fully supported 24/7

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WEBMET HISTORY

2000 - 2002	UKOOA /HSE reports on Metocean data published
January 2002	Muir Matheson workshop to discuss establishing data network
Feb-Apr 2002	Follow-up workshops to design system and agree way forward
Apr-Dec 2002	Setting up of development system and establishing data links
December 2002	Introduction of test system using Shell METNET and additional data from Shell Nelson, TFE North Alwyn and Dunbar, and Exxon Mobil Beryl Alpha
February 2003	Workshop to review progress and identify operating costs
March 2003	Demonstration of real-time data linked to site specific forecasts for Shell sites in the East Shetland Basin and Central North Sea
July 2003	Implementation of operational system with shared industry funding from participating companies
August 2005	UK WebMET now supports mobile & browsing facilities using GPRS/WAP enabled mobile phones and PDA's to allow users to access data anytime & anywhere.
March 2006	Nine BP sites currently being added to the network
November 2006	Two sites added to the network
2007	BP sites became live
2008	Addition of Norwegian sites, Draugen and Ormen Lange


WEBMET FUTURE

Ongoing

Significantly expand the number of metocean parameters that the database will collect and add the Norwegian offshore data. The design will be overhauled and will be run on a much more

Present Metocean Conditions for **Cormorant Alpha**
14/03/2007 11:14:00 GMT

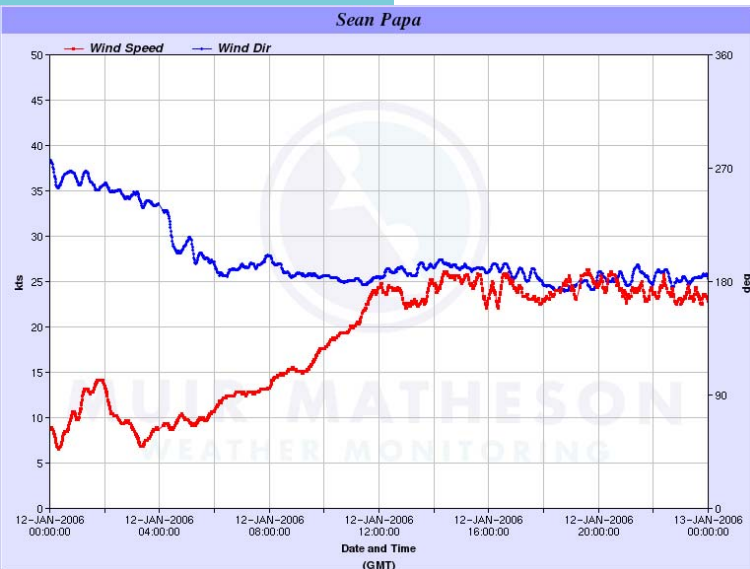
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[Site Sector](#)



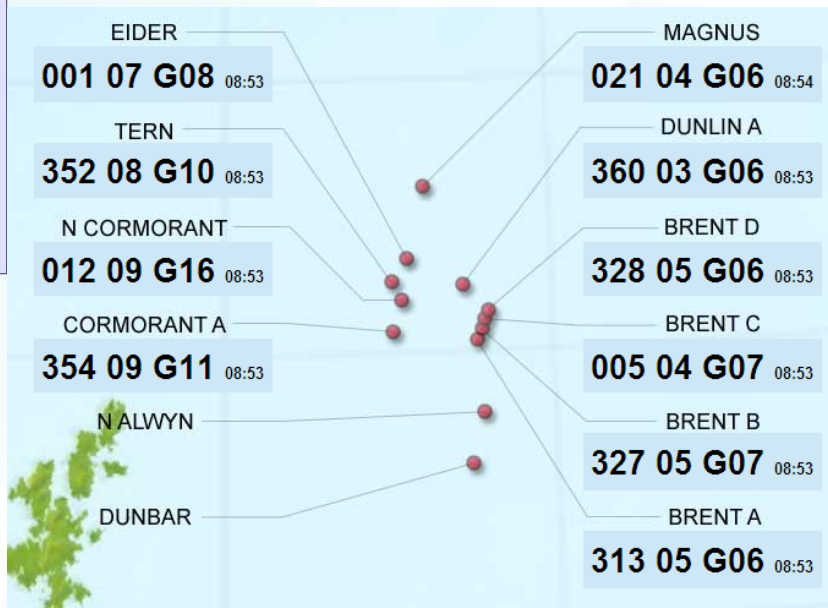
Wind	Direction (deg)	Speed (kts)
10 Minute Mean	234	34
10 Minute Maximum Gust		39

Wave	Cloud / Visibility	Pressure / Temperature / Humidity		
Sig. Wave Height Hs (m)	Cloud Level 1 (ft)	QNH (mB)	QFE (mB)	Air Temp. (deg C)
3.2	749	1017	1010.2	9.4
Max Wave Height Hmax (m)	Cloud Level 2 (ft)	Dew Point (deg C)	Humidity (%RH)	Wind Chill (deg C)
5.3	1500	7.4	87	4.2
Wave Period Tz (s)	Visibility (m)	SH05 14/1114 AUTO 23034KT 9000 OVC008 09/07 Q1017=		
6.6	9639			

Site Specific Data Screen Shot



Graph Data Screen Shot



Spatial Data Screen Shot