



METOCEAN SERVICES INTERNATIONAL

OFFSHORE DRILLING SUPPORT SERVICES

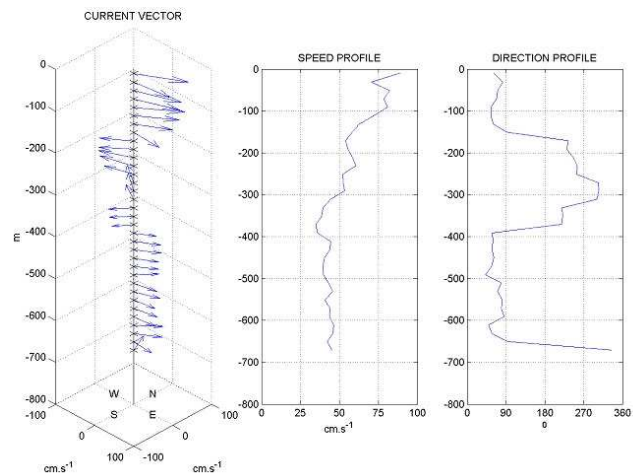
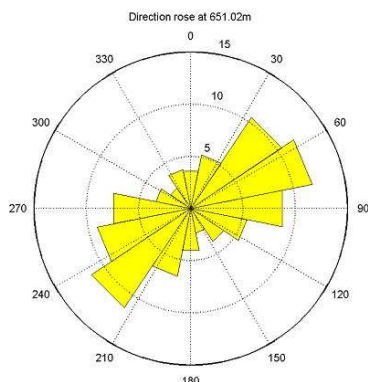
INTRODUCTION

Metocean Services International, a new company for the global provision of metocean services, was launched at the beginning of September 2003. Although a new company, it brings together a management team with over 28 years of experience in the offshore oil and gas industry. With access to the latest state of the art equipment, MSI provides the entire range of oceanographic and meteorological services to the offshore oil & gas market, coastal engineers, dredging companies, port authorities etc. These include, *inter alia*, physical measurement services, desktop studies, data processing / reporting and weather forecasting.

SPECIFIC DRILLING SUPPORT SERVICES

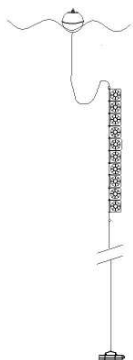
(1) Real-time current measurements

Real-time current data through the water column can be of great assistance for a safe and successful drilling programme. Typically, acoustic doppler current profilers (ADCPs) are deployed in purpose-built frames over the side of the drilling platform. Real-time data is then sent from the ADCP via a power / signal cable to a pc running easy to understand customised display software.



Typical displays include:

- Profile of current speed & direction (graphics & tabular)
- Warning alarm when currents exceed pre-specified limits
- Export of individual profiles or time series to graphic files
- System status checks



(2) Real-time wave measurements

As with current measurements, real-time wave measurements can provide invaluable information during drilling operations. These are normally provided either by installing a wave measurement buoy in the proximity of the platform and telemetering the data via radio to a receiving station installed on the platform, or by installing a wave radar on the drilling platform.

Data displayed includes parameters such as significant wave height, wave period & wave direction.





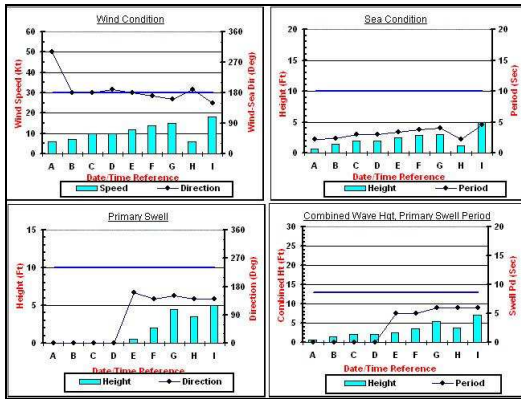
(3) Real-time weather measurements

The installation of an automatic weather station on a rig can assist in safely carrying out all deck operations, as well as provide input into a decision making system for crew changes via helicopter. The data can be displayed in real-time providing parameters such as wind speed, wind direction, air temperature, air pressure, relative humidity, cloud height and visibility.

(4) Weather Forecasting

Accurate site-specific weather forecasts are essential in support of offshore operations. MSI, through our association with Aerospace & Marine International, provides custom forecasts accessible 24 hours / day via a secure web server, e-mail, and / or fax, in text and graphical formats for easy dissemination and application, featuring:

- Wind speed and direction
- Sea height and period
- Primary and secondary swell height, direction, and period
- Combined wave heights
- Visibility



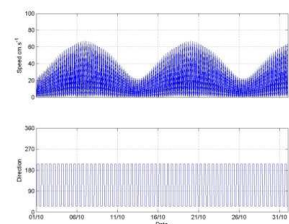
(5) Other Services

Aside from the above-mentioned services which are of specific interest to offshore drilling contractors and their clients, MSI offers the following complementary services:

- Project Management - Full project management of all aspects of metocean projects internationally.
- Desktop Studies - Review of existing data in the form of a desktop study can provide a cost effective alternative or precursor to a physical measurement programme.
- Metocean Data Collection - Collection of oceanographic and meteorological data for operational and design purposes. This includes real-time and self-contained long term stand-alone deployments.
- Data Processing & Analysis - Data quality control, processing, analysis and reporting using Matlab-based suite of software, presenting results in any client determined format
- Baseline Studies - Conducted to determine the physical and biological status of the environment at a specific location both prior to, during and after operations.
- Environmental Impact Assessment / Management- Preparation of Environmental Impact Assessments and Environmental Management Programs in support of proposed operations / developments.

STAFF

The company is headed by Sidney Bilski, Bruce Spolander and Stefan Stimson, all of whom have extensive experience providing metocean services to a range of industries world wide. Full details of the individual staff experience can be found on our website at www.metocean.co.za and a detailed capability statement can be e-mailed on request.



CONTACT DETAILS

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