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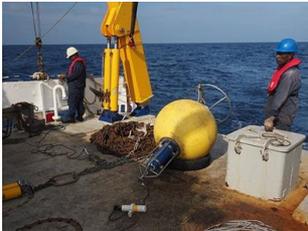
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Welcome to issue 15 of Undercurrents. Although the Oil and Gas Industry generally has seen a slowing down globally over the last 18 months, MSI has been bucking the trend and the gap between issues of Undercurrents is actually a reflection of how busy we have been, rather than having nothing to report.

Another strong year in South Africa has been backed by our best ever year in Australia and, with significant firm orders already booked by both offices for the coming year, we look forward to seeing this continue. In the last 12 months we have started and completed further long term contracts, a few of which are detailed below, and we are excited by the opening of our Mozambican company, Sondamar LDA. This will support existing contracts and enable further growth in that region.

Exhibiting at the recently held Australasian Oil and Gas (Aus) and Oceanology International (UK) expos gave us a good opportunity to catch up with clients and suppliers alike. However, please feel free to contact the team at MSI anytime to discuss your metocean needs. You can also follow us on Facebook, keep updated via our website www.metoceanservices.com or get in touch with us at info@metoceanservices.com

MSI Awarded 1 Year Project in PNG for Twinza Oil Limited



Metocean Services International (MSI) has been awarded a 1 year metocean measurement program for Twinza Oil Limited in Papua New Guinea (PNG). Incorporated in 2004, Twinza Oil Limited has assets in Papua New Guinea, Australia and Thailand.

Twinza is proposing to develop the Pasca A project, discovered in 1968, some 200km west of Port Moresby in 93m of water in the Gulf of Papua making it the first offshore hydrocarbons field development within PNG waters.

After a short mobilisation time to comply with other fieldwork activities, MSI installed a single subsurface mooring primarily consisting of both Nortek and TRDI current profilers and RBR tide and CTD loggers. Directional wave measurements are also provided by a Nortek acoustic wave and current gauge moored 15m below the surface. MetOcean Data Systems satellite tracking beacons were also installed to alert and allow tracking of these valuable assets should the mooring surface unexpectedly due to 3rd party interference.

Personnel from both the Australian and South African offices of MSI were mobilised for the installation in July and recent first service visit. The MSI personnel also assisted with the environmental work being carried out by Twinza's environmental contractor.

This is the first project MSI has conducted in PNG but the excellent relationship we have developed with Twinza personnel, backed by careful project management and experience gained in working in over 45 countries to date, many of them extremely remote, has meant that the project has been undertaken smoothly with zero HSE issues.

"MSI have shown a strong capability and high level of professionalism during the initial deployment and again during the recent service visit. Their careful planning and ability to quickly adapt has allowed both operations to be conducted in a smooth and effective fashion."
Peter Kirkham, Twinza Project Engineering and Commercialisation Manager.

After 8 Years, MSI Wraps Up in Uganda.... for now....



In April 2007 MSI was contracted by Hardman Petroleum to conduct a 6 month metocean measurement campaign to support their intended developments in Lake Albert, Uganda. Little did we know that, following a transfer of the contract from Hardman to Tullow Oil, the initial 6 month programme would end up continuing for over 8 years, with 27 site visits and over 330 engineer days on site.

The project initially comprised deployment of a Nortek acoustic wave and current gauge (AWAC) and establishment of an onshore weather station. This was later expanded to include 2 additional onshore weather stations (one of which was for CNOOC), as well as 3 RBR tide / wave recorders and an RBR tide gauge. During the latter stages of the contract the weather stations were upgraded to provide real-time data transmission via satellite to a password-protected website for Tullow / CNOOC to access.

In late 2015 we demobbed all the marine equipment and stopped the data transmission, but the weather stations are still collecting data and we are ready to resume operations at a moment's notice.

Ironically this project, our longest to date, has been in a landlocked country! Nevertheless, it has allowed us to be involved in an exploration venture from early inception and appreciate the upgrades in infrastructure and local development that such activities can bring. We were also fortunate to be able to recommend, in conjunction with the client's engineers, what metocean measurements were required to achieve the desired aims.

MSI to Deliver 3 AXYS Buoys to Port of Melbourne



Metocean Services International (MSI) has signed a contract with Port of Melbourne Corporation for two TRIAXYS™ directional wave buoys and an AXYS WatchKeeper™ current, wave and met buoy. All 3 buoys will be built by AXYS Technologies in British Columbia, Canada, before being freighted directly to the Port of Melbourne.

The Port of Melbourne is Australasia's largest maritime hub for containerised, automotive and general cargo. It is a key economic asset for businesses and people across Victoria and south-eastern Australia. With 2.6 million containers and 350,000 new motor vehicles handled each year, safe passage is paramount for the 3,000 ships that visit annually. The AXYS buoys will be a key component in providing real time current, wave and meteorological data to the port management system covering 100,000 hectares of port waters.

The TRIAXYS™ Directional Wave Buoy is a solar-powered precision instrument incorporating advanced technologies that make it an easy-to-use, reliable and rugged buoy for accurate measurement of directional waves. The sensor unit is comprised of three accelerometers, three rate gyros, a fluxgate compass, and the proprietary TRIAXYS™ Processor.

The AXYS WatchKeeper™ buoy is a 1.7m diameter polyethylene buoy specifically designed for deployments in coastal areas, lakes, reservoirs and rivers. The WatchKeeper™ hull is internationally proven as an aid to navigation (AToN) and can be deployed in water depths from 20m to 500m. Custom configurable with a wide range of sensors for monitoring meteorological and oceanographic parameters, it derives its wave data from the same sensor unit that is in the TRIAXYS™.

The systems being delivered to the Port of Melbourne Corporation will be fitted with radio and cellular telemetry systems as well as ISatPro for WatchCircle monitoring and terrestrial telemetry if required.

World Leading Weather Business Contracts MSI for Wave Meas.



Global private weather organisation MeteoGroup contracted MSI to provide wave data in support of a weather study off the Angolan coast. MeteoGroup is currently modelling wave conditions in the waters surrounding Dande, Angola, in order to generate accurate and reliable wave forecasts. This data will help to ensure vessels being mobilised from a nearby spoolbase can be loaded safely, and that any downtime resulting from inclement weather is minimised.

The data supplied by MSI is being used to calibrate MeteoGroup's wave models. Wave data is currently being supplied in real-time to the end client's onshore base from a directional wave buoy deployed by MSI in April 2015. The wave data is then processed by MeteoGroup for ongoing model calibration and validation.

MSI is well-placed to work in Angola, as it has substantial experience in the country's offshore oil and gas developments. This experience ensures MSI's familiarity with Angola's exacting regulations that govern equipment import and export, personnel movement and visa requirements, giving clients confidence that projects in this region can be executed without delay. Recent Angolan projects have included the installation of a weather station for Benefit (a regional partnership between Namibia, Angola and South Africa focused on managing fisheries and marine resources off southwest Africa), the long term deployment of a current mooring and metocean buoy for Maersk Oil Angola, and two deepwater current measurement moorings for BP Angola.

Jean-François Bonnin, Sales Manager Offshore at MeteoGroup commented, "MeteoGroup is delighted to have worked with MSI on this project, and proving the importance of in-situ measurements in order to parametrise a very high resolution wave model. MeteoGroup is looking to grow its portfolio of decision making solutions for its customers and working with MSI is certainly one of the best ways to deliver high standard services."

MSI Expands With Opening of New Company in Mozambique



In order to better service long-standing and future clients in Mozambique, Metocean Services International (MSI) has now established a new company based in Maputo.

Sondamar LDA, the third company in the MSI stable, has been officially registered in Mozambique to support clients in the oil and gas, port and harbour development and coastal engineering industries. The name "Sondamar" directly translates to "Survey of the Sea" and reflects the values and experience of its parent company.

Mozambique is a particularly important market for MSI, being a substantial source of LNG and other abundant natural resources, with its economy currently being cited as one of the most dynamic on the continent. Foreign direct investment, mainly centred on the extractive sector, has been one of the major drivers of its growth. Due to its geographic location and close proximity to South Africa, MSI's highly qualified and experienced field engineers are well placed for optimally servicing southern African projects.

MSI has a long, well-established track record in Mozambique spanning over 10 years, with a wide spread of experience geographically throughout the country, including the long term deployment of its personnel and the training of Mozambican nationals in the field of Oceanography.

Most recently MSI has been working on a multiple location, multiple year metocean measurement project in Mozambique's Rovuma Basin, for one of the world's largest independent oil and natural gas exploration and production companies. The programme comprises sixteen shallow and nine deep moorings (in water depths ranging from approximately 6m to 2,000m), an offshore weather station, onshore weather station and shore-based tide gauge. MSI is also responsible for operating and servicing of the equipment for the entire duration of the project.



Metocean Services International - Global Providers of Meteorological & Oceanographic Services in Over 40 Countries (and counting)

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