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## 1) GENERAL OCEAN NEWS

### 1.a) Planet Ocean & ASV Global Demonstrate Autonomous Launch and Recovery

Planet Ocean Ltd & ASV Global Ltd recently demonstrated Autonomous Launch and recovery of multiple AUVs from an ASV as the closing part of their Innovate UK project.

The demonstration, in front of invited guests from the project partners, Planet Ocean, National Oceanography Centre, ASV Global Ltd, University of Southampton and funders Innovate UK and Dstl took place on a sunny July day in the Solent. The day marked the final activity of the highly successful two year Innovate UK project, during which two extremely capable, low cost AUVs were developed along with the launch and recovery systems which can be installed on almost any floating asset. The technology has also contributed to a University of Southampton project which has been air launching ecoSUB- $\mu$  AUVs from their SPOTTER Unmanned Air Vehicle.

ecoSUB- $\mu$  Autonomous Underwater Vehicles were launched autonomously from three launch tubes mounted on the stern of an ASV C-Worker 5 Unmanned Surface Vessel. Missions can be sent to the AUVs whilst in their launch tubes via the C-Worker communications after which the system can operate autonomously. The C-Worker can then act as a communications hub downloading high resolution data from the ecoSUB for storage or onward transmission through high bandwidth channels before collecting the AUVs using a specially designed recovery system modeled on a Jason's cradle.

This combination of platforms means that ecoSUB can be delivered quickly to the area of interest and deployed without the need for direct human intervention. The launch system developed by ASV Global, can be scaled up; the C-Worker 7 can accommodate 60 ecoSUB- $\mu$  AUVs.

For further information, visit [www.planet-ocean.co.uk](http://www.planet-ocean.co.uk)

### 1.b) ADSIC Contracts Proteus FZC to Provide TCarta Marine Spatial Data Package for Arabian Gulf

Proteus FZC, Middle East's leading provider of remote sensing services has been contracted by the Abu Dhabi Systems & Information Center (ADSIC) to provide 2m Satellite Derived Bathymetry, 90m Bathymetric GIS Package and Marine Basemap for the Arabian Gulf. Proteus FZC is a subsidiary of TCarta Marine, a global provider of marine geospatial products.

By combining the TCarta Marine datasets, ADSIC will be able to perform complex modeling of the entire Arabian Gulf from the shallow coastal zone around the Abu Dhabi Emirate out to the deepest waters. The datasets will be used for environmental analysis in the development of aquaculture, marine parks and other offshore operations.

TCarta Marine, working in partnership with DHI, have delivered the 2m Bathymetry data for the coastline of the Abu Dhabi Emirate. This product is an off-the-shelf shallow water, coastal zone bathymetric dataset derived from high-resolution DigitalGlobe satellite imagery that is acquired cost effectively and quickly in near-shore areas often inaccessible to ship- and airborne data collection platforms.

The 90-meter-resolution Bathymetric GIS Package, combined with the Marine Basemap now being delivered by TCarta Marine will cover the entire Arabian Gulf and stream seamlessly into the ADSIC GIS. For further information, visit <http://www.tcartamarine.com/blogs/newsadsic/>.

### **1.c) Competition to gain access to the Chinese market kicks off**

The “2017 Global Marine Technology Entrepreneurship Competition” hosted by Shandong University and Qingdao City serves as a pathway for individual entrepreneurs and teams to get access to Chinese capital and market, and to network with entrepreneurs and venture capitals worldwide.

The competition includes two themes being held in two stages: Marine technology theme, and theme for innovative technologies in smart hardware, artificial intelligent, robotics, life science and others.

Two stages consist of regional contest and final competition. The regional contest will be held in Toronto on August 21st, Halifax on 22nd. in Canada; in Boston on August 23rd, Chicago in 25th and Silicon Valley in 26th of USA.

The regional contest in China will be held in Qingdao, Shanghai and Jinan during the same time. The regional contest in Europe will be held in the UK, Kiel, Germany and Paris, France in late August.

The final competition of marine theme will be held in September 11th in Qingdao, China. The final competition of other fields will be held in September 25th in Qingdao as well.

This competition invites promising companies and teams from all around the world to compete for generous prizes up to US\$70,000 for the first place prize. Four teams from each city will be selected to attend final competition in Qingdao with paid international transportation and local accommodations.

If you are interested in the competition, you can register at <http://t.cn/RKHun2O>

### **1.d) Deep Ocean Engineering, Inc.'s Phantom® T4H Completes Successful Infrastructure Inspection of Cherry Lake Dam**

A Phantom® T4H ROV, designed and built by Deep Ocean Engineering, Inc., has successfully completed an inspection of the intake riser at Cherry Lake Dam near Yosemite in California. The dam, built in 1956, has provided water and power to the San Francisco Bay Area, Modesto, and Turlock districts for over 60 years, and the structure has not been seen since its construction. Deep Ocean Engineering's Phantom® T4H ROV successfully documented the state of the dam's water intake riser and the position of the gates at a depth of 258 feet (78.6m), about a quarter of the ROV's rated capability.

The inspection involved the use of a Dynamic Positioning (DP) capable triple pontoon boat with a forward mounted ROV Launch and Recovery System (LARS) that deployed the underwater drone to the coordinates of the intake riser while holding a steady position. The ROV scanned the area with an Imagenex 881 Sonar as it descended, quickly and easily locating the intake riser and flying to it. Then, using powerful LED and HID lights from Deep Sea Power and Light (DSPL), the ROV inspected the structure and observed the dam's internal condition without having the need to enter. The video images were seen with such clarity that the dangers of using saturation divers and further intervention were completely unnecessary, saving the city time, money, and hassle.

With the video feed provided by the Phantom® T4H, The San Francisco Public Utilities Commission was able to determine the state of the dam's intake riser and is preparing for major rehabilitation construction later this summer.

For further information, visit <http://www.deepocean.com/>

### **1.e) "Mini Tsunami" detected by ocean radar WERA 40 minutes before it flooded Dutch beaches**

A "Mini Tsunami" hit the Dutch coast with a flood wave of more than 2m height which swept away beach chairs, boats, and parasols.

Two WERA ocean radar systems have previously been installed at Monster and Ouddorp, about 50km south-west of Zandvoort. These systems are owned by Rijkswaterstaat (a part of the Ministry of Infrastructure and the Environment) and measure the ocean currents around the entrance of the Port of Rotterdam. The operational frequency is 16.175 MHz providing a coverage of up to 70 km offshore to measure ocean surface current velocity and direction. Even though WERA can be used for Tsunami detection, these particular systems are operated in a standard oceanographic mode. For this reason, no tsunami alert was issued by the systems.

Nevertheless, after re-processing the acquired WERA raw measurements from both systems using the original WERA Tsunami detection software, specific ocean current signatures, generated by the approaching tsunami-like wave, can be seen clearly more than 40 minutes before the wave flooded the coast near Zandvoort.

For further information, visit [www.helzel.com](http://www.helzel.com)

### **1.f) TDI-Brooks International Awarded Deepwater Atlantic Habitats II**

TDI-Brooks International, Inc. has been awarded the Bureau of Ocean Energy Management (BOEM), the National Oceanic and Atmospheric Administration (NOAA) Office of Ocean Exploration and Research (OER), and the U.S. Geological Survey (USGS) funded study entitled “Deepwater Atlantic Habitats II: Continued Atlantic Research and Exploration in Deepwater Ecosystems with Focus on Coral, Canyon and Seep Communities.” This interagency five year, multi-million dollar study shall focus on the exploration and investigation of deepwater biological communities located in U.S. federal waters of the northwest Atlantic Ocean, potentially including offshore Virginia, North Carolina, South Carolina, and Georgia. The program focus is on hard substrate habitats, with some work related to soft bottoms and within the water column also included.

Approximately eighteen days of ship time for the initial cruise (2017) and up to twenty four days for each of the subsequent research cruises (2018 and 2019) aboard NOAA-research vessels (e.g. NOAAS Ronald H. Brown), will be provided to the program by NOAA OER. A remotely operated vehicle, or autonomous underwater vehicle will also be available from NOAA OER for all three cruises.

The overarching goal for this project is to augment the ability to predict the location of seafloor communities within the study area that are potentially sensitive to natural and anthropogenic disturbances. This area encompasses a variety of different habitat types, including canyons, hard-bottoms, cold-water coral mounds, methane seeps, and soft sediments. Below are a series of objectives to develop this predictive capacity, starting with an improved understanding of the distribution, structure, and function of the communities associated with each habitat type.

For further information, visit [www.tdi-bi.com](http://www.tdi-bi.com)

### **1.g) Seafloor Systems EchoBoat Used in Survey of California Delta Levee System**

The SEAFLOOR EchoBoat USV is on the job for the California Department of Water Resources (CADWR) and R.E.Y. Engineers surveying the fragile delta region levee system. The EchoBoat is Seafloor’s 1.8m remotely controlled survey platform, which is also capable of Autonomous and Semi-Autonomous operation. Integrated to the vehicle are a Norbit iWBMSc multibeam echosounder and a Velodyne Puck LiDAR sensor. The laser-multibeam combination allows the customer to scan the levee structure for integrity above and below the water line simultaneously.

Since 1900, there have been over 160 levee failures in the Sacramento-San Joaquin River Delta. These numbers include multiple failures of a single levee structure. Levee failures, also known as breaches, can be caused by overtopping or structural failure. In January 2017 more levees breached. This was mostly due to extremely high flow conditions from rainfall followed by rapid snow melt delivering tremendous amounts of water through the levees' structures. Several sections of the Levee system were identified by the CADWR as

high risk for failure and a contract was let to R.E.Y. Engineers of Folsom, CA to survey the levee both above and below the waterline for integrity.

For further information, visit [www.seafloorsystems.com](http://www.seafloorsystems.com)

### **1.h) Teledyne Odom MB2 multi beam system for Teesport UK**

Saderet is pleased to announce that as the UK representative for Teledyne Odom it has supplied a complete MB2 multibeam system to PD Teesport for high accuracy port surveying. The system was installed on one of Teesport's hydrographic survey vessels, the Tees Sentinel. Included in the package was a Hemisphere AtlasLink L-Band RTK positioning system, USM sonar mount, Applanix Wavemaster INS, and Teledyne Reson SVP70 for sound velocity measurement at the sonar head. A Valeport SWIFT SVP was also provided for sound velocity measurement over the whole water column.

This contract follows on from another recent MB2 package project provided by Saderet for a Suffolk, UK based inshore hydrographic survey company.

For further information, visit [www.saderet.co.uk](http://www.saderet.co.uk)

### **1.i) The cloud is the limit for AgileTek project with Fugro**

Subsea engineering analysis consultancy, AgileTek, has completed the first use of its revolutionary AELCloud system on a project for geo-intelligence and asset integrity provider, Fugro.

The work required a substantial number of simulations of subsea power cable installation operations to be performed to verify procedures, component sizes and weather windows. Some of the results were required at critical milestones within the larger project, and AELCloud allowed AgileTek to scale server capacity on demand to meet these deadlines.

On this subsea installation project alone, AgileTek ran approximately 27,000 OrcaFlex simulations which equated to around 57,000 hours, or just over six years of simulation time. Eight terabytes of simulation file binary data were saved, and AELCloud processed a total of 1.5 billion data points for critical metrics in the system.

For further information, visit <https://www.agiletek.co.uk/>

### **1.j) Valeport secures highest international quality standards**

Valeport reports that it continues to demonstrate proactive compliance with the highest international quality standards.

In July, Valeport, a leading UK manufacturer of oceanographic, hydrographic and hydrometric instrumentation underwent a number of ISO audits, successfully updating the firm's certifications to ISO 14001:2015 Environmental Management and ISO 9001:2015

Quality Management. For the first time in 2017, Valeport is also now certified to BS OHSAS 18001, the internationally applied British Standard for occupational health and safety.

ISO 14001:2015 is the latest standard which sets out the criteria for an environmental management system. Certification to this standard evidences Valeport's work to measure and improve the subsea supplier's environmental impact.

ISO 9001:2015 is a standard to support organisations to meet the needs of customers, stakeholders, as well as statutory and regulatory requirements. ISO 9001 particularly examines customer focus, the motivation of Valeport's management, their process approach and drive for continual improvements, which ensures that quality management is at the heart of Valeport's activities.

This year, Valeport were also audited to BS OHSAS 18001 for the first time. This new accreditation formally recognises Valeport's commitment to occupational health and safety across the company's processes and systems.

For further information, visit [www.valeport.co.uk](http://www.valeport.co.uk)

### **1.k) CGG Wins Brazil Data Processing Contract for World's Largest Seabed Seismic Survey**

CGG announced the award by Petrobras of a contract to process the seismic data from a 3D Ocean Bottom Node (OBN) survey covering a full-fold area of 2180 km<sup>2</sup> in Brazil's deepwater Santos Basin. This will be the largest node survey ever acquired and processed in the industry. The survey will be acquired by Seabed Geosolutions, CGG's joint venture with Fugro.

The resulting OBN data set will be processed in CGG's long-established Rio de Janeiro Subsurface Imaging Center, which has the largest computer capacity and greatest expertise in the region.

Jean-Georges Malcor, CEO, CGG, said: "CGG is a natural choice for this high-profile OBN processing contract given our in-depth geological knowledge of the Santos Basin and our recognized track record and proven advanced technologies for OBN processing. OBN surveys are one option at present for acquiring full-azimuth data offshore Brazil and we will work closely with Seabed Geosolutions to deliver the best images of the subsurface in the highly prospective Santos Basin."

For further information, visit [www.cgg.com](http://www.cgg.com)

### **1.l) New Bluetooth "Digital Measuring Board" for field surveys in marine environments.**

Building on their experience designing and manufacturing the world's only logging "Dive Calliper", Zebra-Tech has released their latest data collection tool, an electronic measuring board for researchers on vessel decks, in wet labs and out in the field. It was developed

with the assistance of Callaghan innovation funding and is part of wider project to develop electronic tools for capturing fisheries data in electronic form.

Ideal for sampling shellfish and other small species, the rugged Digital Measuring Board features an electronic display, internal storage and Bluetooth offload of .csv files to smart phone or tablet. Capable of withstanding harsh marine environments, the new measuring board is made from marine grade stainless steel and tough engineering plastics. It can be washed down with a hose.

Initial units have already been shipped to the abalone industry in Australia and to scallop researchers in the United Kingdom. One recently completed survey in New Zealand involved measuring almost 28000 scallops during a 10 day vessel based survey using one Digital Measuring Board... all without paperwork or having to type data.

For further information, visit [www.zebra-tech.co.nz](http://www.zebra-tech.co.nz)

### **1.m) Poole Harbour Commissioners donate to Julia's House**

Poole Harbour Commissioners (PHC) have presented a cheque for £500 to Julia's House, the children's hospice charity dedicated to bringing comfort and care to families across Dorset and Wiltshire.

The donation, made by Jim Stewart, Chief Executive of Poole Harbour Commissioners came about following the success of Poole Harbour Boat Show 2017, in association with Sunseeker, which saw more than 30,000 people visit Poole Harbour for the three-day event in May.

For further information, visit <http://www.phc.co.uk/>

### **1.n) Aberdeen based Canyon Offshore Limited selected to trench world's longest submarine interconnector**

Canyon Offshore Limited, a leading trenching solution provider based in Aberdeen, has been awarded a contract for the provision of offshore cable trenching services on the North Sea Link Interconnector. The 1.400MW subsea HVDC system with cables linking the UK and Norway when complete will be the world's longest submarine interconnector.

The multi-million pound subcontract was awarded by Prysmian PowerLink S.r.l, who are manufacturing and installing the two parallel HVDC cables for National Grid and Statnett (North Sea Link Interconnector) between Blyth in England and Kvilldal in Norway.

Estimated to cost €1.5-2 billion, North Sea Link is the first interconnector between the UK and Norway and will contribute to a more climate friendly energy system. Canyon Offshore's award will require the trenching of approximately 900km of the two interconnector HVDC cables which will have been laid onto the seabed by Prysmian PowerLink S.r.l. Management of the operations, which will be performed over four annual campaigns commencing in 2018, will be provided from Canyon Offshore Limited's Aberdeen base.

For further information, visit <http://www.helixesg.com/httphelixesgcomsubsea-contractingcanyon-offshore/canyon-offshore/>

## **2) EVENTS, TRAINING & DEMONSTRATIONS**

### **2.a) IMCA diving seminar and DMAC workshop to be held, 25-26 September 2017, London**

The International Marine Contractors Association (IMCA) and the Diving Medical Advisory Committee (DMAC) are staging a two-day IMCA Diving Seminar and DMAC Workshop in London on 25-26 September 2017 that will present a number of topics of interest to the global offshore diving community.

The event, being held at the De Vere Grand Connaught Rooms in Great Queen Street, London WC2, will focus most closely on certain medical issues currently considered particularly relevant to IMCA Diving Division members.

Further information on the event, including the full programme, is at [www.imca-int.com/events](http://www.imca-int.com/events). Register free-of-charge at [events@imca-int.com](mailto:events@imca-int.com); Tel: +44 (0)20 7824 5523.

## **3) WHO'S ON THE MOVE?**

### **3.a) Rockland Scientific hires staff scientist**

Rockland Scientific Inc. announced the appointment of Dr. Justine McMillan as Staff Scientist. Dr. McMillan will act as scientific and technical liaison between Rockland's customer base and the company's R&D and customer service teams.

Dr. McMillan recently completed her doctoral degree at Dalhousie University, focusing on the measurement of turbulent flows in energetic tidal channels. Her work has been instrumental in the ongoing tidal energy resource assessments. She has also become an advocate for ocean literacy and scientific communication, and is "excited to join the Rockland team."

For further information, visit <http://rocklandscientific.com/news/>

### **3.b) Appointment of Matthew J. Wilson at QPS-US Inc.**

QPS are very pleased to announce the appointment of Matthew J. Wilson to Marketing and Sales at QPS-US Inc., effective 01 September 2017. Matthew joins QPS from NOAA Office of Coast Survey, Atlantic Hydrographic Branch, Norfolk, Virginia where he is a Physical Scientist (Feb 2008 – Present).

Matt's education and professional experience make him a very worthy addition to QPS as they drive forward with the widespread adoption of Qimera and their workflow for those engaged today in hydrography. Along with his strong work ethic and enthusiasm, Matt is someone that will deliver tremendous value to the QPS and their business partners.

For further information, visit [www.qps.nl](http://www.qps.nl)

#### **4) JOB POSTINGS**

##### **4.a) Experienced Hydrographic Surveyors at EGS (International) Ltd**

EGS (International) Ltd are recruiting experienced hydrographic surveyors to join the team. EGS have positions available for both a joint site/office role, and an office only role for experienced processors. As an experienced surveyor, you will be involved with all aspects of a project to include; tendering, survey planning, vessel mobilisation, equipment calibration/verification, survey acquisition, data QC, data processing, processing QC and final reporting. Working in small survey teams on complex projects, surveyors will be acquiring high quality bathymetric data. You will also be involved in the acquisition of other geophysical equipment and working closely with the engineering department to assist in troubleshooting of any equipment related issues. Experience in online QC to ensure that the data is meeting client specifications is essential.

For a surveyor looking for an office only role, you will be relied upon for processing large nautical charting datasets in Caris HIPS & SIPS to meet the high. Experience in processing UK nautical charting datasets for the is highly desirable.

##### **Requirements**

University degree in Hydrography or a closely related marine discipline; Equipment knowledge: Kongsberg MBES systems, Applanix POS MV positioning, Sonardyne USBL; Acquisition experience: QINSy, Kongsberg SIS, Sonardyne Ranger; Processing experience an advantage: Caris HIPS & SIPS, QINSy Qloud, Qimera; Experience of working in the shallow inshore environment; Party Chief experience an advantage; Willing to relocate to commutable distant of EGS office in Bordon, Hampshire; Self-motivated, with the ability to work well under pressure in a team environment; Current medical, BOSIET/FOET certificates are an advantage; Eligible to work in the UK and possess a full UK driving licence.

To Apply for this position please send your CV and covering letter to: The HR Manager, EGS International Ltd, Unit 27 Woolmer Way, Bordon, Hants GU35 9QE or email: [humanresources@egssurvey.co.uk](mailto:humanresources@egssurvey.co.uk)