



BAP Carrasco was launched in Vigo on 7th May 2016

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## **Kongsberg Maritime: KONGSBERG Autonomous Underwater Vehicles and Hydrographic Technology for New Peruvian Arctic Research Vessel**

Kongsberg Maritime has been chosen to deliver an integrated subsea technology systems package including two HUGIN Autonomous Underwater Vehicles (AUV) for a new Peruvian Navy Hydrographic & Oceanographic research vessel. The 97 metre 'BAP Carrasco' is built at Construcciones Navales P. Freire shipyard in Vigo, Spain.

The advanced new research ship will have Polar capability and be classified with PC7 notation to perform research in Peruvian waters, in order to fulfill Peru's commitment under the Antarctic Treaty. The KONGSBERG technology on board will form the platform for the Peruvian Navy to perform missions within Hydrography, Oceanology, Geology, Biology and Geophysics.

Following the launch of BAP Carrasco in Vigo on 7th May 2016, KONGSBERG will fulfil the equipment delivery in collaboration with Robinson Marine Electronics in Callao, Peru and Simrad Spain SI. The full scope of supply includes:

- Hydrography: Kongsberg EM122 1°x1° deepwater multibeam echo sounder, Kongsberg EA600 12,38 & 200 kHz single beam echo sounder
- Geophysics: Kongsberg SBP 120 3° Sub-bottom Profiler
- Biology: Simrad EK80 18, 38, 70, 120 & 200 kHz scientific single beam multi-frequency echo sounder
- Enhanced medium water operations: 2 x Kongsberg HUGIN AUV with Hydrographic, Geology and Geophysics configuration for high resolution survey depth rated to 3,000 meters, Kongsberg HiPAP.

All KONGSBERG technology on BAP Carrasco will be fully integrated to ensure the highest level of performance. The delivery reflects Kongsberg Maritime's 'Integrated Systems for Research Vessels' approach, which has proven successful on many of the world's most advanced scientific ships in recent years.

To ensure optimal performance in all conditions, KONGSBERG will manage the proper installation of the acoustic transducers for ice water operations and the integration of various sub-systems including the K-Sync synchronisation unit, an advanced Position, Heading and Motion reference system and the MDM500 Marine Data Management system.

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**For further information, please contact:**

Katharina H. Nygaard  
**Kongsberg Maritime**  
Tel: +47 957 01 423  
katharina.nygaard@km.kongsberg.com

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## **About Kongsberg Maritime**

Kongsberg Maritime is a global marine technology company providing innovative and reliable technology solutions for all marine industry sectors including merchant, offshore, subsea and naval. Headquartered in Kongsberg, Norway, the company has manufacturing, sales and service facilities in 20 countries and a total of 65 worldwide offices.

Kongsberg Maritime developed systems for vessels cover all aspects of automation, control, navigation, safety and dynamic positioning. Kongsberg Maritime also develops subsea solutions covering systems for Underwater Mapping (UMAP), Underwater Navigation (UNAV), Subsea Monitoring (SUMO) and Marine Robotics in addition underwater cameras.

Marine and offshore training simulators, LNG equipment, information management software, position reference systems, integrated aquaculture technology and advanced products to support seismic and drilling operations are also part of the company's diverse portfolio.

In parallel with its extensive technology portfolio, Kongsberg Maritime provides services within EIT (Electro, Instrument & Telecom) engineering and system integration, on an EPC (Engineering, Procurement & Construction) basis.

Kongsberg Maritime delivers solutions that cover all aspects of technology underwater and on the water, aboard new build and retrofit vessels, and on offshore platforms and rigs, often under a single supplier strategy called The Full Picture.

Kongsberg Maritime is part of Kongsberg Gruppen (KONGSBERG), an international, knowledge-based group that celebrated 200 years in business during 2014. KONGSBERG supplies high-technology systems and solutions to customers in the oil and gas industry, the merchant marine, and the defence

and aerospace industries.

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