



Water velocity shown in north/south, east/west and down/up directions, intensity of color represents speed

Apr 09, 2019 13:04 BST

## Precision current profiling added to the world's most advanced scientific echo sounder

- [Kongsberg Maritime Ocean Business 2019 Press Kit: 3 of 5](#)
- *New possibilities of integrated data and operation set to unlock greater insight on ocean ecosystems and the results of climate change that impact them*

**Southampton, UK, 9<sup>th</sup> April 2019** – Kongsberg Maritime will unveil the world's most complete Ocean Ecosystem assessment tool at Ocean Business

in Southampton today (stand N1). The company behind the game-changing Simrad EK80 scientific echo sounder has developed an innovative, holistic new platform which provides cost-effective data collection for improved understanding of the oceans and the effects of global warming and ocean acidification.

The ADCP option for the Simrad EK80 couples a new, state-of-the-art Wideband combined ADCP and Split beam transducer with the world's most advanced and extensively used scientific echo sounder. The pairing results in the only system for research vessels that is both capable of quantifying biology with in-situ calibrated measurements and measuring ocean currents in high resolution, all in the same instrument.

The inclusion of the ADCP in the EK80 system enables researchers to also measure current speed and direction as a function of depth in order to determine how organisms, nutrients, and other biological and chemical constituents, as well as heat are transported throughout the oceans. The deeper understanding of ocean ecosystems will contribute to improved models and various forecasts, informing national and international environmental policies.

KONGSBERG's new combi-transducer features four high-performance ADCP beams and an additional calibrated, wideband, narrow split beam echosounder for high-resolution, single target detection and characterisation. The phased array design with electronics also integrated in the transducer housing and a single operator station for both ocean current and biomass measurements, allows EK80 installations and upgrades to be carried out quickly and easily.

As the most flexible and accurate scientific echo sounder available, with operation on a large frequency band ranging from 10 to 500 kHz, the Simrad EK80 has become the de facto standard for Ocean Ecosystem and fish stock assessment. Now with the option to add the new combi-transducer and integrate control with the EK80 software, it introduces valuable new functionality, while also addressing the interference between ADCP and echo sounder beams witnessed in standard two-system configurations.

*“Our new EK80 ADCP releases tangible operational and performance benefits that support the scientific community to acquire and combine precision data that will bring even more insight on the ocean environment,”* said Stene Førsund, VP

Subsea Sales, Kongsberg Maritime. *“We have developed a dual combi-transducer that not only integrates wideband ADCP and split beam echo sounder, but also unites the electronics and transducer elements in the same unit. This integrated approach also reduces procurement, installation and lifecycle costs, which are an important consideration for research organisations considering their often-limited operational budgets.”*

While ocean science and fisheries research are the primary applications for KONGSBERG’s new integrated Ocean Ecosystem assessment solution, the combination of ADCP and EK80 is suitable for freshwater studies including river discharge water and sediment measurements. The system is also able to collect hydrology data that accurately describe the physical and biological attributes of fresh water systems for use in environmental and resource assessments and management.

Ends

**For further information, please contact:**

Gunvor Hatling Midtbø, VP Communication

**Kongsberg Maritime**

Tel: +47 9921 4209

[gunvor.hatling.midtbo@km.kongsberg.com](mailto:gunvor.hatling.midtbo@km.kongsberg.com)

Saul Trewern

**Saltwater Stone**

Tel: +44 (0)1202 669244

[s.trewern@saltwater-stone.com](mailto:s.trewern@saltwater-stone.com)

---

## About Kongsberg Maritime

Kongsberg Maritime is a global marine technology company providing innovative and reliable 'Full Picture' technology solutions for all marine industry sectors including merchant, offshore, cruise, subsea and naval. Headquartered in Kongsberg, Norway, Kongsberg Maritime has manufacturing, sales and service facilities in 34 countries.

Kongsberg Maritime solutions cover all aspects of marine automation, safety, manoeuvring, navigation, and dynamic positioning as well as energy management, deck handling and propulsion systems, and ship design services. Subsea solutions include single and multibeam echo sounders, sonars, AUV and USV, underwater navigation and communication systems.

Training courses at locations globally, LNG solutions, information management, position reference systems and technology for seismic and drilling operations are also part of the company's diverse technology portfolio. Additionally, Kongsberg Maritime provides services within EIT (Electro, Instrument & Telecom) engineering and system integration, on an EPC (Engineering, Procurement & Construction) basis.

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.

Web: [Kongsberg Gruppen](#) | [Kongsberg Maritime](#)

Social media: [LinkedIn](#) | [Twitter](#) | [Facebook](#)