

## News Release

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### **SEA CONTINUES TO SUPPORT THE UK ROYAL NAVY WITH AMBIENT NOISE PREDICTION SYSTEM UPGRADE**

Cohort company SEA has been awarded a UK Ministry of Defence contract to upgrade the Ambient Noise Prediction System (ANPS) for the UK Royal Navy.

The ANPS takes meteorological and oceanographic forecasts, together with oceanographic databases, and performs complex acoustic propagation calculations to produce regular forecasts of ambient noise conditions in the ocean. The results enable the UK Royal Navy vessels to plan operations and improve the effectiveness of their sonars, allowing them to adjust elements such as sonar frequencies and depths accordingly.

Noise sources in the marine environment have changed considerably over the past few years, as have the quality and resolution of meteorological forecasting models and geo-acoustic data. The upgraded ANPS will incorporate the latest available environmental information and take advantage of higher resolution meteorological models to produce ambient forecasts that will be used by vessels equipped with sonar assets throughout the UK Royal Navy.

The ANPS was first developed by SEA, which worked in conjunction with the National Oceanography Centre in Southampton and in collaboration with NATO scientists to undertake research into acoustic characterisation of the seabed. It was released to the RN in 2003.

The ANPS is now part of the operational support provided to the Fleet by the Joint Operational Meteorology and Oceanography Centre (JOMOC).

Peter Rhodes, Project Manager for Maritime Research at SEA commented: "ANPS is a valuable element in ensuring that RN ships achieve the best results in deploying their sonar assets and this update will take advantage of the latest data and resources available.

"SEA's expertise in acoustics and the underwater environment means that we are well suited to support NCHQ in the upgrade. We are delighted to once again be the customer of choice for the upgrade of the ANPS and to continue supporting frontline naval platforms".

- Ends -

**Notes to Editors:**

Cohort plc is an independent technology company and the parent company of four innovative, agile and responsive businesses, EID, MASS, MCL and SEA, providing a wide range of services and products for UK, Portugal and international customers in defence, security and related markets.

[www.cohortplc.com](http://www.cohortplc.com)

**SEA** was acquired by Cohort plc in 2007 and today is a major supplier of applied research, technology development, systems integration, specialist electronic systems, engineering and software design services to the defence and security markets. Its engineering and project management skills include naval communications systems, maritime combat systems, through-life support, dismounted soldier systems, subsea engineering and traffic enforcement. Complementing its work for the UK Ministry of Defence, SEA is growing its business overseas and extending its expertise into adjacent markets, including offshore, railways and roads.

SEA employs circa 300 high-calibre staff and has offices in Beckington, Bristol, Barnstaple and Aberdeen.

[www.sea.co.uk](http://www.sea.co.uk)

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