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Enterprise Electronics Corporation (EEC) to Supply Shipboard Weather Radar System for Taiwan's "New Ocean Researcher 1" Oceanic Research Vessel

ENTERPRISE, AL, April 5, 2022 – Officially launched in August of 2020, the 2,155 ton “New Ocean Researcher 1” vessel, commissioned by Taiwan’s Ministry of Science and Technology (MOST), and operated by National Taiwan University (NTU), is the only research vessel in Taiwan equipped with a full deck of meteorological sensors and equipment. The meteorological data collected during the vessel’s voyage is sent via satellite communications to the Central Weather Bureau, to improve regional climate models and weather forecasts for Taiwan.

The addition of EEC’s Defender C350 Shipboard Weather Radar, contracted by our in-country partner, GECL, during the first quarter of 2022, will allow the collection and analysis of changes in the air moisture in the sky within a radius 150 kilometers around the ship, and will help understand the generation of southwest monsoon rainfall, and the persistent Meiyu front in the summer.

According to NTU, “the detection equipment and capabilities of R/V New Ocean Researcher 1 have greatly enhanced the vision of ocean research in Taiwan, raising its level from regional ocean research to a global scale of ocean voyages and future-oriented explorations that will further connect Taiwan to the world.”

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Research Vessel "New Ocean Researcher 1" - Photo Courtesy of NTU and MOST, Taiwan

The advanced Shipboard Defender C350 weather radar system is a powerful, C-band, magnetron based Doppler Weather Surveillance Radar with a patented Simultaneous Dual Polarization capability. Specially built for continuous (24 hours/day), unattended operations at remote locations, the system will provide a live feed of weather radar data to all local and remote data processing and product generation terminals, located both on-board the research vessel, and inland.

EEC's EDGE software combines radar control, system status monitoring, communications and network control, data archiving control, data processing, and meteorological product generation into a single comprehensive application program. EDGE includes a wide range of meteorological products to meet the NTU's requirements for general weather forecasting, as well as advance scientific meteorological research.

In addition, the Shipboard Defender C350 weather radar system uses a software/control-based approach to adjust the radar data to compensate for ship movement. The built-in stabilization system will ingest roll, pitch and yaw information from the on-board navigation system and correct the antenna pointing positioning in the azimuth and elevation axis as needed to compensate for varying sea conditions or ship heading.



EEC Shipboard Defender C-Band Radar - CSIRO's "Investigator" Research Vessel, Australia

“The detection capability of the Shipboard Defender C350 will support Taiwan’s Ministry of Science and Technology (MOST), and National Taiwan University (NTU) in their mission to greatly enhance ocean research beyond regional limits and study meteorological phenomena in areas that are inaccessible to the international scientific community.” notes Rich Stedronsky, EEC’s CEO. “EEC’s previous experience in delivering and installing shipboard weather radars, such as the system on-board the “Investigator” research vessel in Australia, will be very valuable in ensuring this project’s success.”

Delivery and installation of this new weather radar on board of the “New Ocean Researcher-1” vessel in Taiwan is scheduled to occur in 2023.

About EEC

EEC is recognized as the world leader in the meteorological radar field since its inception in 1971 with more than 1,100 radar systems manufactured and delivered in the United States and over 90 countries worldwide. Celebrating 50 years in operation, EEC has consistently led the industry worldwide in the introduction of the latest available technology to enhance radar and data processing performance. A strong focus on innovation and technology infusion into the product line continues to be a driving factor in EEC's leadership in the weather radar market. EEC's products and capabilities can be viewed at www.eecweathertech.com. Be sure to follow EEC on social media at the following links:

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