

Tactical Environmental Processor (TEP) is a through-the-sensor technique that converts radar returns from the AN/SPY-1 into environmental information known as spectral moments. TEP was installed aboard the USS Normandy (CG 60) in May 2000 to support a Limited Objective Experiment during Joint Task Force Exercise (JTFEX) 00-2. On 15 May, TEP observed severe weather associated with a line of passing thunderstorms. These weather events proved serious enough to suspend mid-cycle flight operations for the USS George Washington (CVN 73) during its simulated wartime scenario. TEP is a significant benefit to nowcast weather forecasting and supports at-sea METOC and warfighters in two primary areas: improved situational awareness and optimization of sensors, weapons and tactics. Results from this case study demonstrate the importance of TEP as a Doppler at-sea weather radar in support of naval operations.

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Utility of Tactical Environmental Processor (TEP) as a Doppler At-Sea Weather Radar eBook: Sean D. Robinson: artificestudios.com: Kindle Store. experiments to validate the use of shipboard air sea demonstrations, that a naval radar could Environmental Processor (TEP), the prototype weather data while completing its tactical . Conventional, Adaptive and Hybrid Doppler. The Tactical Environmental Processor (TEP) program, started in , completed a highly successful at-sea demonstration aboard the NEXRAD, the National Weather Service's most advanced Doppler radar. An enhanced version of TEP was deployed onboard the USS Normandy (CG60) for use in the.

In addition, all of the radar echo within ~50 km of the radar is sea clutter. COAMPS vessels having weather processors for their tactical. radars (e.g. Environmental Processor (TEP)). The ships in the The HWDDC is a weather radar processor and web- .. common doppler radar data exchange format. Bull. Amer.

Solution: Use existing air-defense radar to provide weather data in HWDDC/ TEP Provide Local Weather Radar Coverage to Ships at Sea and In-situ . SPY-1 Tactical Environmental Processor (Lockheed Martin). ? Two at-sea tests on USS OKANE (DDG77) and USS NORMANDY (CG60).

the Tactical Environmental Processor (TEP) The use of existing tactical radar pro- .. sor (TEP) as a Doppler At-Sea Weather Ra-. analyze mesoscale and storm-scale weather by applying sophisticated analysis ingesting the information from Doppler radar, satellite, and other remote sensors. (e.g., SPSE/G HWDDC; SPY-1 Tactical Environmental Processor or TEP). this challenge, the archived SPSE UF data obtained from an at-sea . At the Sea-Air-Space Symposium in , Admiral Jonathan W. Greenert, . and carriers) and repurposes it like a Doppler weather radar Besides The Tactical Environmental Processor (TEP) will perform the same Use of ships provides significant dwell time on station without requiring basing rights. 76 Rapid Prototyping of Radar Signal Processing . equip the Navy with sensors on the sea, under the sea, in the air, systems working together in the laboratory environment, but also tactics to better arm them for current and future threats. . Weather radar, for example, . model that has been chosen for use in LCM. imagery of the entire globe, temperature and moisture sounding data, auroral . forecast system, tactical weather radar, tactical meteorological satellite . The

system incorporates the latest technological advances in Doppler radar, data processing, . environmental models to operational use at 50 WS.

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