



Calhoun: The NPS Institutional Archive
DSpace Repository

Faculty and Researchers

Faculty and Researchers' Publications

2018-04-18

Exploitation of a Surface Current Mapping
Network based on High Frequency Radar in
support of the Central and Northern CA Ocean
Observing System

Paduan, Jeffrey D.

<http://hdl.handle.net/10945/67870>

This publication is a work of the U.S. Government as defined in Title 17, United States Code, Section 101. Copyright protection is not available for this work in the United States.

Downloaded from NPS Archive: Calhoun



Calhoun is the Naval Postgraduate School's public access digital repository for research materials and institutional publications created by the NPS community. Calhoun is named for Professor of Mathematics Guy K. Calhoun, NPS's first appointed -- and published -- scholarly author.

Dudley Knox Library / Naval Postgraduate School
411 Dyer Road / 1 University Circle
Monterey, California USA 93943

<http://www.nps.edu/library>



Cyber Academic Group

Search



Published 4/19/18

Exploitation of a Surface Current Mapping Network based on High Frequency Radar in support of the Central and Northern CA Ocean Observing System

Paduan, Jeffrey D.

A surface current mapping system based on a network of HF radar systems has been built up through State and Federal funding along the California coastline. Today, the HF radar (HFR) network is being supported as a component of NOAA/IOOS. NPS is continuing to deliver high quality environmental data to support the HF radar-related products and services offered by CeNCOOS and to contribute to the national backbone of IOOS observation data. The data consist of hourly surface current maps from HF radar sites in the region between Point Sur and Monterey Bay, California. The level of data quality assurance, timeliness of repairs, and amount of product development provided by NPS is a function of the level of matching funds received since the IOOS funding supports data collection only. For its part, NPS utilizes surface current mapping data from the entire west coast network in support of modeling and emergency response support tool research with Naval students and university partners.

Oceanography

National Oceanic & Atmospheric Administration

Other-Fed

2018

Sponsored Research Articles

[Cybersecurity Figure of Merit \(CFOM\) Cyber Readiness Assessment](#)

[Coupled Air Sea Processes and EM Ducting Research \(CASPER\)](#)

[Command and Control for the New Navy Orientation and Response Model](#)

[Hybrid schemes for exact conditional inference in discrete exponential families](#)

[A Distributed Platform for High-Speed Active Network Topology Discovery](#)

[Defense Cyber Operations in Software Defined Networks](#)

[Military Applications of Optimization](#)

[Collaborative Research: From Loading to Dynamic Rupture - How do Fault Geometry and Material Heterogeneity Affect the Earthquake Cycle?](#)

[Exploitation of a Surface Current Mapping Network based on High Frequency Radar in support of the Central and Northern CA Ocean Observing System](#)

[Metalloid Cluster Building Blocks and their Inclusion within Composite Networks](#)

Previous

Next

[View larger map](#)



Report a map error Map data ©2021

[Sign In](#)

[Welcome](#)

[Research](#)

[Academics](#)

[Outreach](#)

[Faculty](#)

[Contact CAG](#)



Mission

Provide defense-focused graduate education, including classified studies and interdisciplinary research, to advance the operational effectiveness, technological leadership and warfighting advantage of the Naval service.

Naval Postgraduate School

1 University Circle, Monterey, CA 93943

[Driving Directions](#) | [Campus Map](#)

This is an official U.S. Navy Website | [Please read our Privacy Policy Notice](#) | [FOIA](#) | [Section 508](#) | [No FEAR Act](#) | [Whistleblower Protection](#) | [Copyright and Accessibility](#) | [Contact Webmaster](#)