

## Contact

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(LinkedIn)

## Top Skills

Oceanography  
Organizational Leadership  
Program Management

## Certifications

Navigating Environmental  
Sustainability: A Guide for Leaders  
Sustainability Strategies  
Fundamentals of Sustainable Supply  
Chains  
Strategic Thinking  
Program Management Foundations

## Publications

Thesis: Bedform evolution and  
sediment transport under breaking  
waves  
Dissertation: Stratified Fronts in Well-  
Mixed Estuaries

# Micah Weltmer, PhD

Science & Innovation Leadership | Sustainable solutions to advance  
strategy, overcome challenges, and inspire action.

Greater New Orleans Region

## Summary

20+ years of leadership in science-based, data-driven risk management and decision support with a lifelong commitment to the environment. I have a BS in Geosciences, MS in Meteorology and Oceanography, and PhD in Physical Oceanography, as well as a deep interest in climate resilience and sustainability.

Throughout my career I've helped organizations and decision-makers understand environmental challenges and exploit time, space, and opportunity to optimize their operations and manage risk.

In my current role I design, research, and implement scientific and technical innovations to improve the Navy's operational environmental science and decision support, in alignment with strategic objectives.

Skilled in team building, employee development, strategic planning, program management, risk assessment, geospatial analysis, and creative problem solving. Strong background in organizational change, knowledge management, autonomous vehicles, and high performance computing.

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## Experience

### US Navy

Operational Oceanographer  
May 1998 - Present (24 years)

Subject matter expert and leader in environmental sciences, risk management, and geospatial information and systems (GIS) support for U.S. Naval and Joint operating forces.

U.S. Naval Meteorology and Oceanography Command

5 years 6 months

Chief Science & Technology Officer | Asst. Chief of Staff  
October 2019 - Present (2 years 7 months)  
Stennis Space Center, Mississippi

Principal advisor to the Senior Executive Team on science, technology, and innovation. Director of headquarters-level Requirements, Capabilities, and Innovation Department; manages capability and requirements activities and decisions for a globally dispersed community of 2500+ environmental intelligence professionals across 50 organizations. Guides, informs, and programs Science and Technology (S&T), Research and Development (R&D), and operational investments totalling ~\$253M annually.

Deputy Director, Oceanography Operations  
November 2016 - October 2019 (3 years)  
Stennis Space Center, Mississippi

Naval Oceanography Operations Command (Executive Officer). Executive leadership, coaching, mentorship and training, including the day-to-day oversight of Operations, Personnel Management, and Administration for 350 military and civilian personnel across 24 globally dispersed organizations. Planning, execution, management, and distribution of an annual budget of over \$13M. Executive oversight of the Information Management, systems engineering, and cybersecurity of information systems across 50 organizations of Naval Meteorology and Oceanography.

U.S. Naval Forces Europe/Africa - U.S. 6th Fleet  
2 years 2 months

Program Director, Environment and Climate | Fleet Oceanographer  
September 2014 - October 2016 (2 years 2 months)  
Naples Area, Italy

Principal technical and operational advisor to the Fleet (3-Star) and Naval Component (4-Star) Commanders and staff on all aspects of environmental sensing, prediction, and impacts to joint planning and operations throughout the European and Africa Areas of Operation. Responsible for all environmentally oriented programs, projects, contracts, plans, operations and risk management activities.

Deputy Director, Maritime Operations Center  
September 2014 - December 2015 (1 year 4 months)  
Naples, Campania, Italy

Director-level cross-organizational leadership of a 550-person Fleet Maritime Operations Center, coordinating naval and joint operations across the European and Africa Theaters of Operations.

### U.S. Naval Meteorology and Oceanography Command

Director Of Environmental Modeling and Simulation

October 2013 - August 2014 (11 months)

Monterey, CA

Fleet Numerical Meteorology and Oceanography Command (Operations Officer). Department director responsible for the leadership of a cross-functional team of 90 military and civilian personnel engaged in the operation of a world-class high performance computing capability.

### Commander, Carrier Strike Group Ten

Senior Advisor, Environment and Schedules | Staff METOC Officer & Scheduler

January 2009 - August 2010 (1 year 8 months)

Principal technical and operational advisor to Carrier Strike Group (CSG) Commander on all aspects of at-sea environmental support to joint and naval planning and operations. Assembled, trained and directed a team specializing in analysis of atmospheric and oceanographic risk factors to aviation, acoustics, signals intelligence and targeting. Coordinated maintenance, training, deployment and operations schedules for all CCSG10 resources.

### Office of the Chief of Naval Operations (OPNAV)

Program Manager | Requirements & Capability Analysis Manager

May 2006 - December 2008 (2 years 8 months)

Washington D.C. Metro Area

Developed and administered a \$100M Naval acquisition program. Led the capability and resource development for the Navy's first-ever Unmanned Undersea Vehicle (UUV) acquisition program. Directed environmental capability analysis program for the Oceanographer of the Navy. Co-authored a comprehensive 25-year strategy for Naval Oceanography.

### Commander, Submarine Group SEVEN (CSG-7 / CTF 74 / CTF 54)

Oceanography and Acoustics Consultant | Task Force Oceanographer

April 2005 - April 2006 (1 year 1 month)

Yokosuka, Japan

Directed a project team of 3-5 specialists providing environmental and acoustic intelligence for submarines operating throughout the Western Pacific and Indian Oceans and the Task Force Commander. Coached Task Force

command staff and watch teams on environmental hazards, risk mitigation measures, and oceanographic optimization of acoustic sensor use and placement.

## NAVPACMETOCEN

Assistant Operations Officer

May 2003 - March 2005 (1 year 11 months)

Yokosuka, Japan

Deputy department director responsible for leading a team of 30+ analysts and shift supervisors in the operation of a 24/7 weather and ocean forecasting center. Expertise in Western Pacific and Indian Ocean weather forecasting and ocean prediction.

## USS FIFE (DD-991)

Gunnery Officer

January 1999 - December 2000 (2 years)

Led a highly skilled team of 15 gunnery and fire control specialists responsible for supplying, maintaining, troubleshooting, and safely operating all small and large caliber gun weapon systems onboard a multi-mission Navy destroyer.

## U.S. Geological Survey (USGS)

Research / Graphics Aid

1997 - 1998 (1 year)

Tampa/St. Petersburg, Florida Area

Collected, processed, and interpreted geophysical data in nearshore and estuarine environments around the southeastern United States. Designed and published informational products to the public and policy makers.

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## Education

Penn State University

Bachelor of Science (BS), Geosciences

Naval Postgraduate School

Master of Science (MS), Meteorology & Physical Oceanography

Naval Postgraduate School

Doctor of Philosophy (PhD), Physical Oceanography