Artificial Intelligence (AI) Literacy for Ocean Professionals is Needed for a Sustainable Future



Erin Satterthwaite¹ & Matthew Robbins²

¹CalCOFI & California Sea Grant, Scripps Institution of Oceanography, University of California San Diego, La Jolla, CA, USA ² Bren School of Environmental Science and Management, University of California Santa Barbara, and Robbins Research, Santa Barbara, CA, USA

Al literacy in ocean professions

Values, competencies, and knowledge – across ethical, social, technical, cultural, philosophical, and economic dimensions – needed to navigate in an AI-influenced field

Why

Promote inclusive, ethical, & innovative Al l develooment Equip individuals with AI skills & knowledge MONTSHOOS, SONINAS, FOININGS, FOININ mentor networks, orojects, s Foster curiosity & critical thinking

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Foundational Al concepts Practical applications Impact of Alon society ENalmation of Al What

How

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Maritime industries, academia, government, professional societies

Employers, leaders in ocean organizations, funders, legislators, educators, policy - makers

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Oceam professionals

decision

Whom

researchers,

Who

Relevance of AI to ocean-related sectors

- Interest in AI-based tools has surged, with applications and use rapidly integrating into oceanrelated sectors
- AI literacy is essential for ocean professionals at all career stages - helping them effectively use, trust, interpret, and develop AI tools
- Understanding AI fosters critical thinking, supports ethical applications, and mitigates potential job displacement effects in ocean sectors

Need for holistic AI literacy

- Current AI literacy literature emphasizes K 12 and formal education
- Practical AI trainings for ocean professionals exist but rarely extend beyond technical skills
- An AI literacy framework for ocean professionals should include a holistic definition of AI literacy
- More efforts are needed to engage ocean professionals with diverse technical skills in AI literacy











