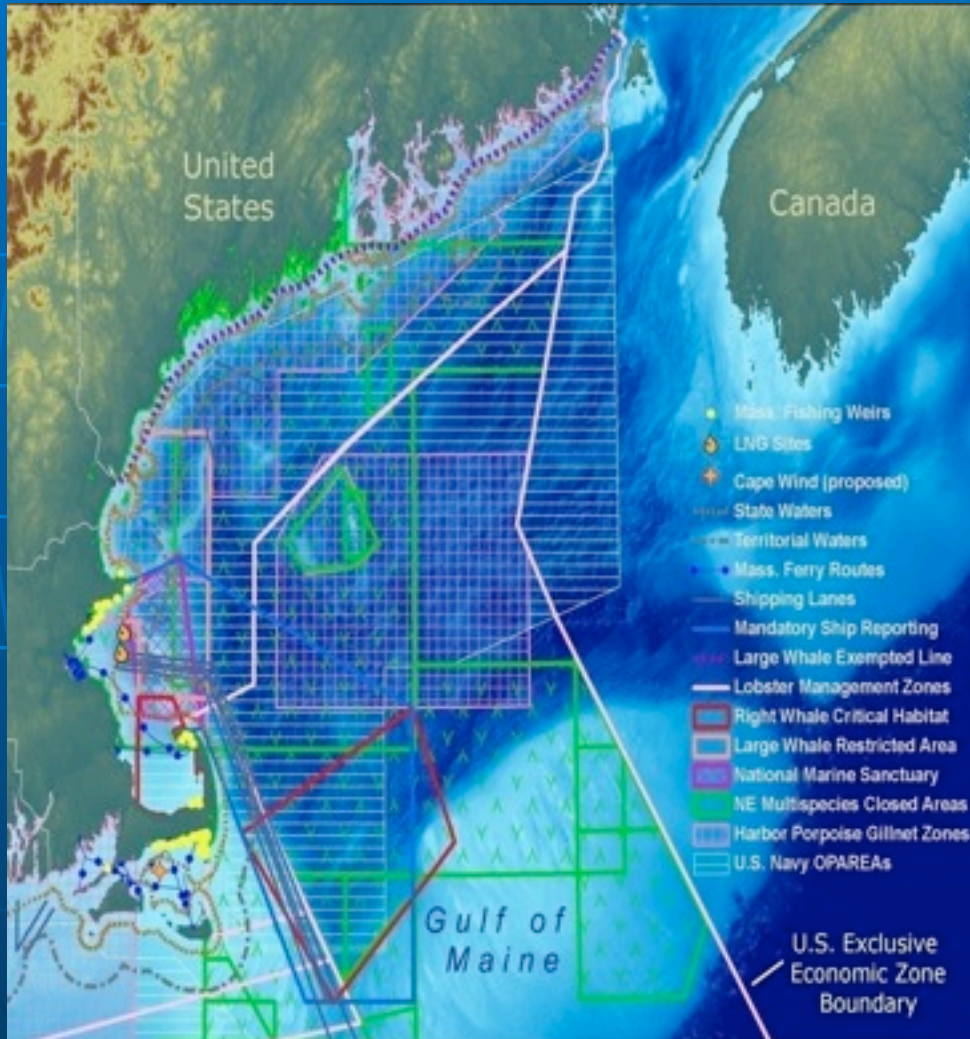


Next Steps in Marine Spatial Planning



Larry Crowder
Duke Center for Marine
Conservation and Nicholas
Institute for Environmental
Policy Solutions

Caroline Good

Monday, June 28, 2010



Ocean resources are valuable... and more and more people are looking for space in the ocean



Ocean resources are valuable... and more and more people are looking for space in the ocean

Chapel Hill
North

1-40
Carol Woods



Many human uses of the ocean and
coasts bring unwanted consequences.



Many human uses of the ocean and coasts bring unwanted consequences.

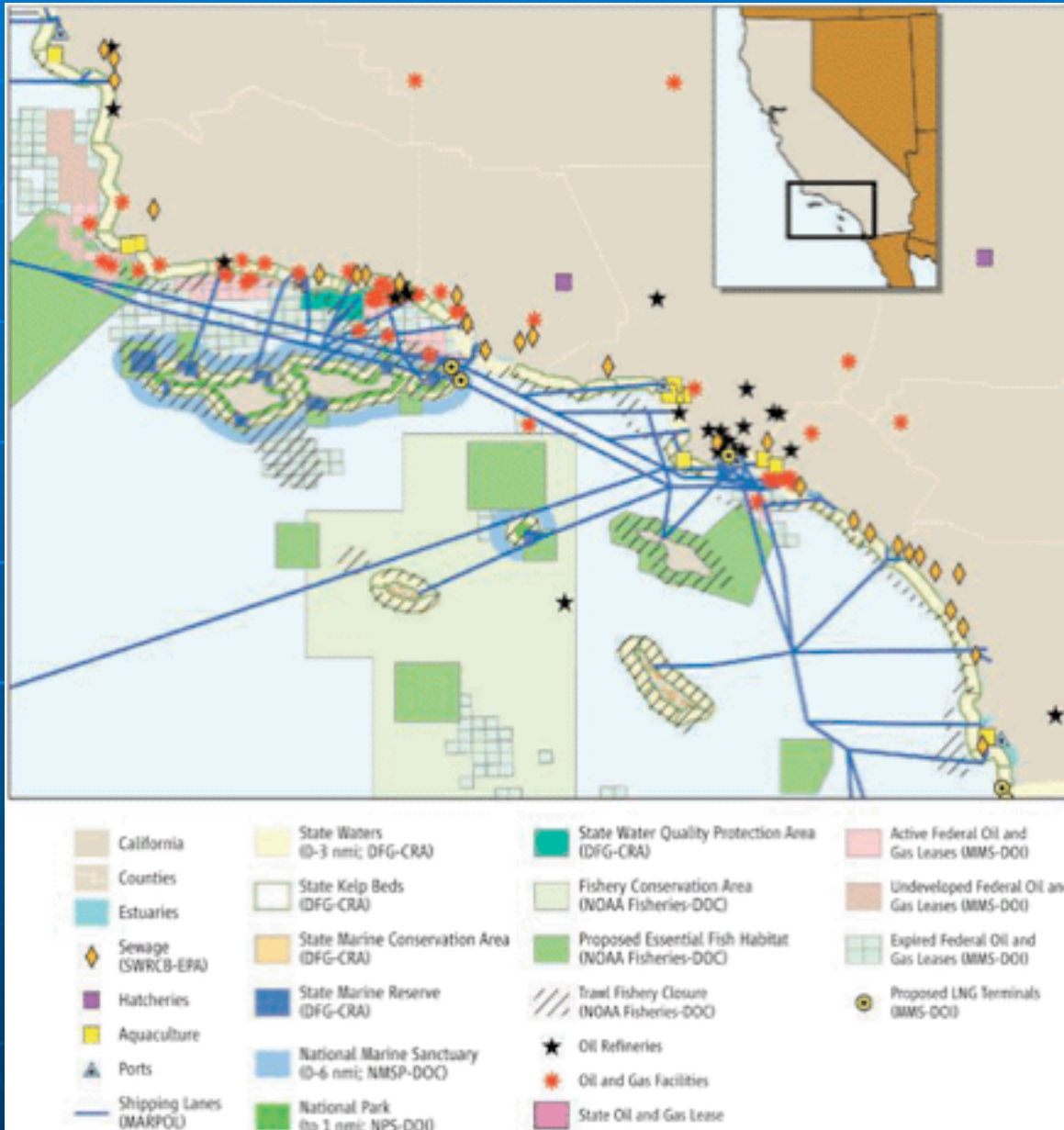


Current ocean management can be
chaotic...



Current ocean management can be chaotic...

Governance Constraints to Implementing EBM



Resolving mismatches in U.S. ocean

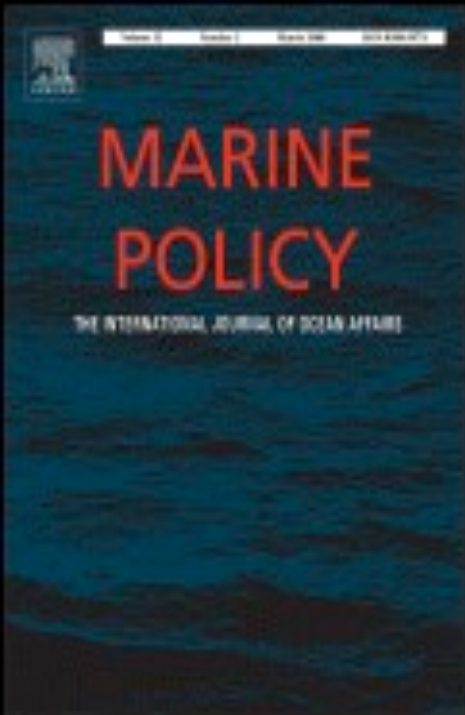
L.B. Crowder, G. Osherenko, O.R. Young, S. Aïramé, E.A. Norse, N. Baron, J.C. Day, F. Douvère, C.N. Ehler, B.S. Halpern, S.J. Langdon, K.L. McLeod, J.C. Ogden, R.E. Peach, A.A. Rosenberg & J.A. Wilson

NCEAS Working Group on EBM and ocean zoning

Ecosystem-Based Management for the Oceans

- Considers the entire ecosystem, **including humans**
- Integrated approach that focuses on **cumulative impacts** of multiple sectors and deals with **trade-offs** among activities
- Goal: To maintain an ecosystem in a healthy, productive, and **resilient** condition so that it can provide the services **humans** want and need
- *Adapted from 2005 Consensus Statement (compassonline.org)*





F. Douvère F. & C. Ehler, eds. (2008)
The role of marine spatial planning in
implementing ecosystem-based sea use
management
Marine Policy 32(5)



MARINE SPATIAL PLANNING

A Step-by-Step Approach toward Ecosystem-based Management

Developed with the financial support of

GORDON AND BETTY
MOORE
FOUNDATION

the David &
Lucile **Packard**
FOUNDATION

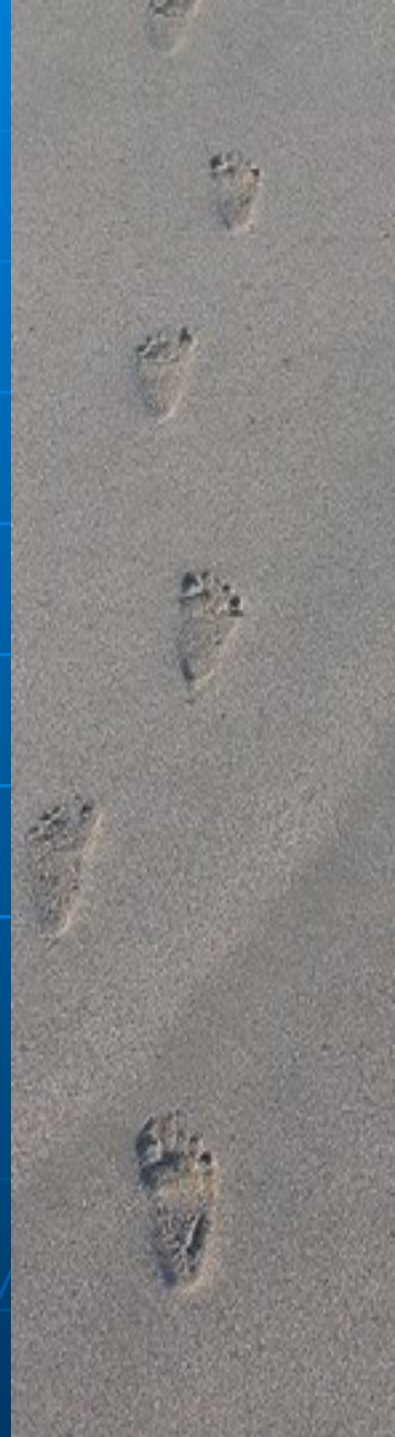
Additional support was provided by WWF-International and the government of Belgium.



How to start toward MSP?

- Identify need and establish authority
- Obtain financial support
- Pre-planning
- Organize stakeholder participation
- Define/analyze existing conditions
- Define/analyze future conditions
- Prepare/approve spatial management plan
- Implement/enforce spatial management plan
- Monitor/evaluate performance
- Adapt/update the plan

Ehler and Douvère 2009



MSP Principles

- Primary focus on maintaining ecosystem structure and functioning
- Integration among government agencies and levels of government
- Public Trust Doctrine
- Transparency in decision making processes
- Precautionary Principle Ehler and Douvere 2009

Ocean Users Perspectives on MSP

Duke University's Nicholas Institute for Environmental Policy Solutions and the Meridian Institute hosted 4 full-day meetings with ocean industries:

Aquaculture, Boating, Commercial Fishing, Recreational Fishing, Oil and Gas, Renewable Energy, Undersea Cables,



Concerns about MSP



www.wired.com



dpi.nsw.gov.au



<http://www.marine-photobank.org>



Concerns about MSP

- Inadequate industry input to date



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Concerns about MSP

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Concerns about MSP

- Inadequate industry input to date
- Unwelcome if it adds more regulations, new agency review, or new grounds for litigation
- Is there enough human use and economic data available?
- Interference with current economic activities and permitting processes



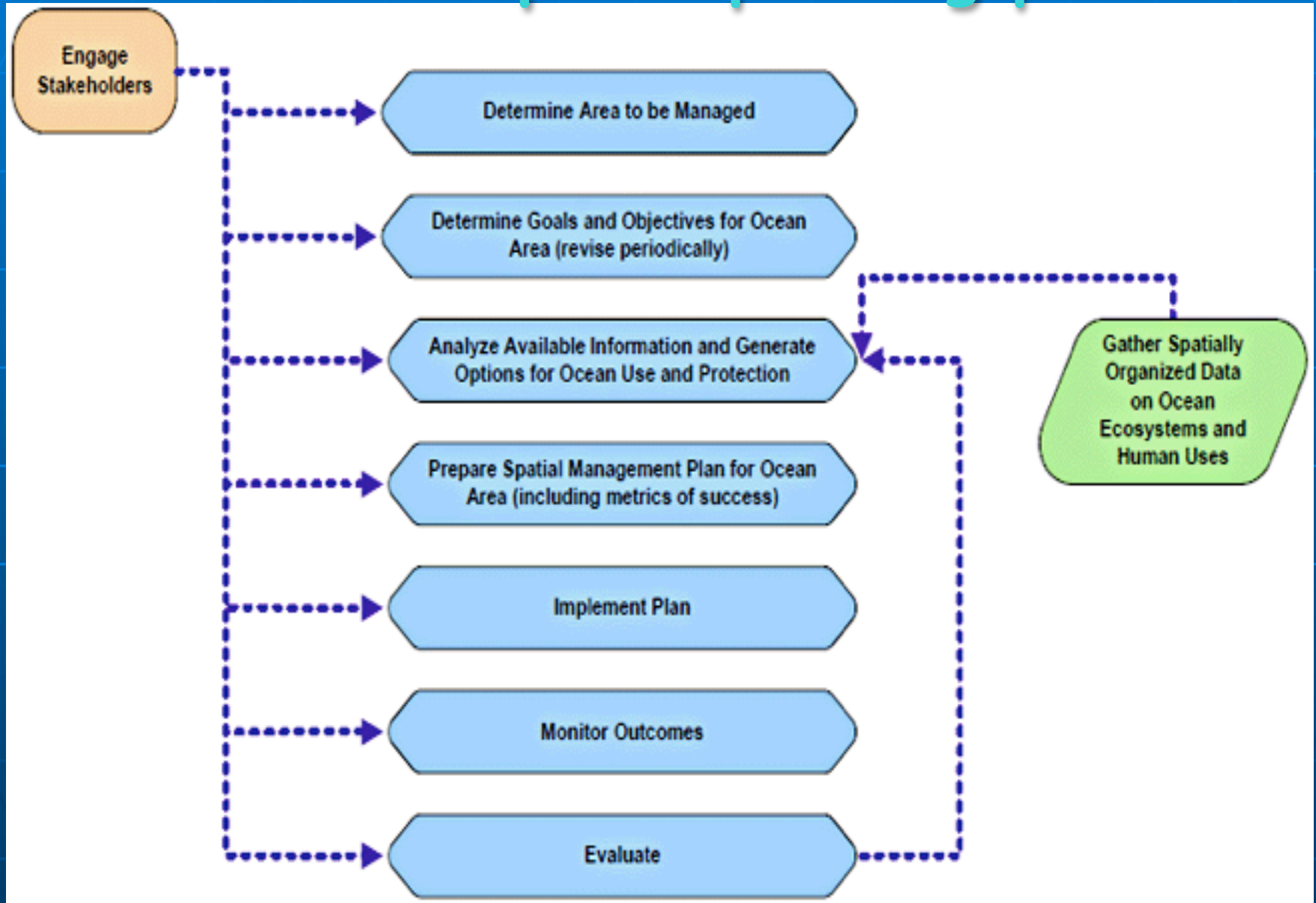
Guiding Principles

- Meet national economic, social, and environmental goals
- Forward-looking
- Facilitate compatible uses
- Open, transparent, and participatory
- Allow for regional flexibility in planning
- Increase ocean investors' confidence in future regulations
- Accommodate change and promote innovation
- Not add to regulatory burden

Design Elements

- Recognize heterogeneity of ocean space
- Identify user conflicts upfront
- Clear plans to obtain, centralize, and make available spatial data
- Use regional bodies and multiregional partnerships
- Implement through existing authorities, regulations and legal framework

The marine spatial planning process



Implementing Marine EBM

- Need a Strong Legal Foundation—The Public Trust Doctrine and Governance
- Implementation via Marine Spatial Planning, Ocean Zoning, other regulatory structures
- Fully Integrate the Human Dimension with the Biophysical Dimension
- Remember the Goal is Integrated Cross-Sectoral Spatial Management—NOT JUST PLANNING!

Acknowledgements

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- Thanks also to The Willard Group: Meg Caldwell, Laura Cantral, Bud Ehler, Rod Fujita, Elliott Norse, Linwood Pendleton, and Michael Weber for stimulating conversations
- Thanks also to Morgan Gopnik, Mary