Opportunities and challenges for marine and coastal ecosystem services markets

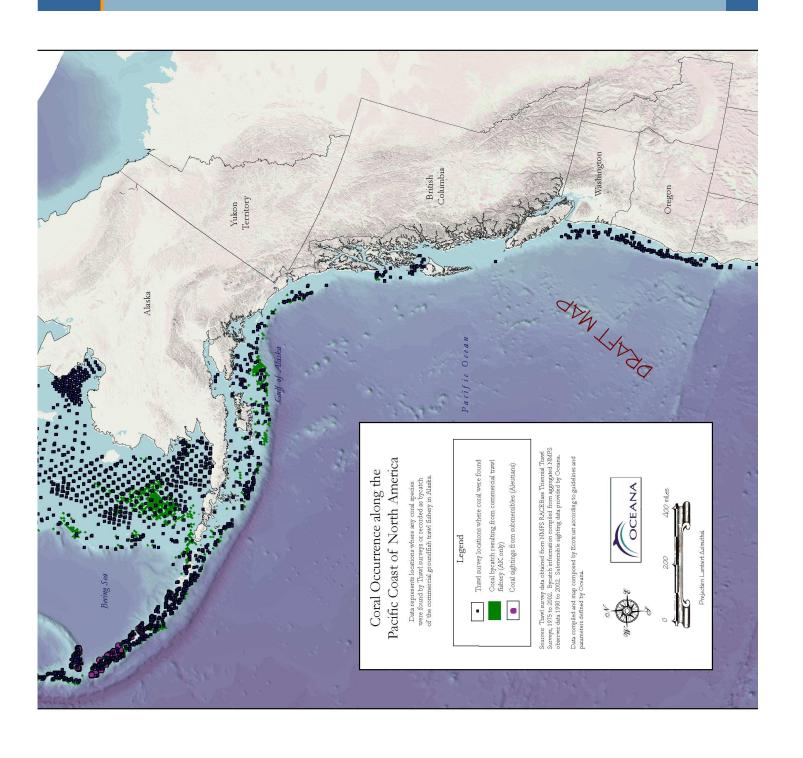
Edward Backus and Astrid Scholz

Ecotrust

Fisheries and Knowledge Systems

RESOURCES TO CONSIDER

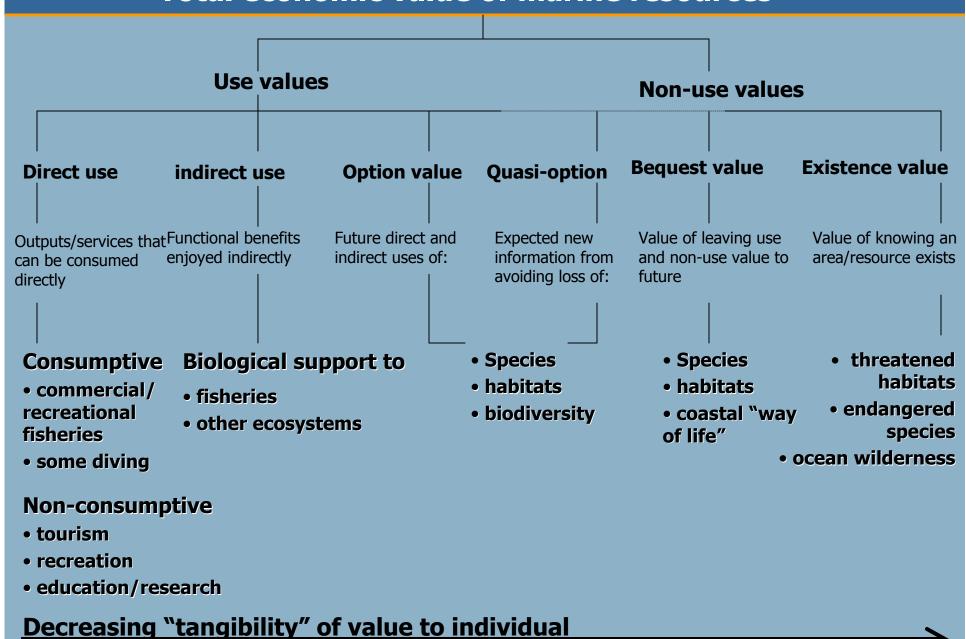
- Food wild harvests, recovering stocks, aquaculture, recreation
- Medicines Biodiversity (cold water corals, MPA's)
- Energy wave/tidal
- Carbon deep ocean injection, mid-ocean dispersion, nearshore kelp beds? (linked to species recovery – sea otter)
- Water coastal/watershed pollution (ag, cities, etc.)
- Salmon linking pieces of ecosystems:
 (marine/freshwater/terrestrial) (habitat/water/harvest rights) (escapements/nutrient transfers/production resilience)



OPPORTUNITIES

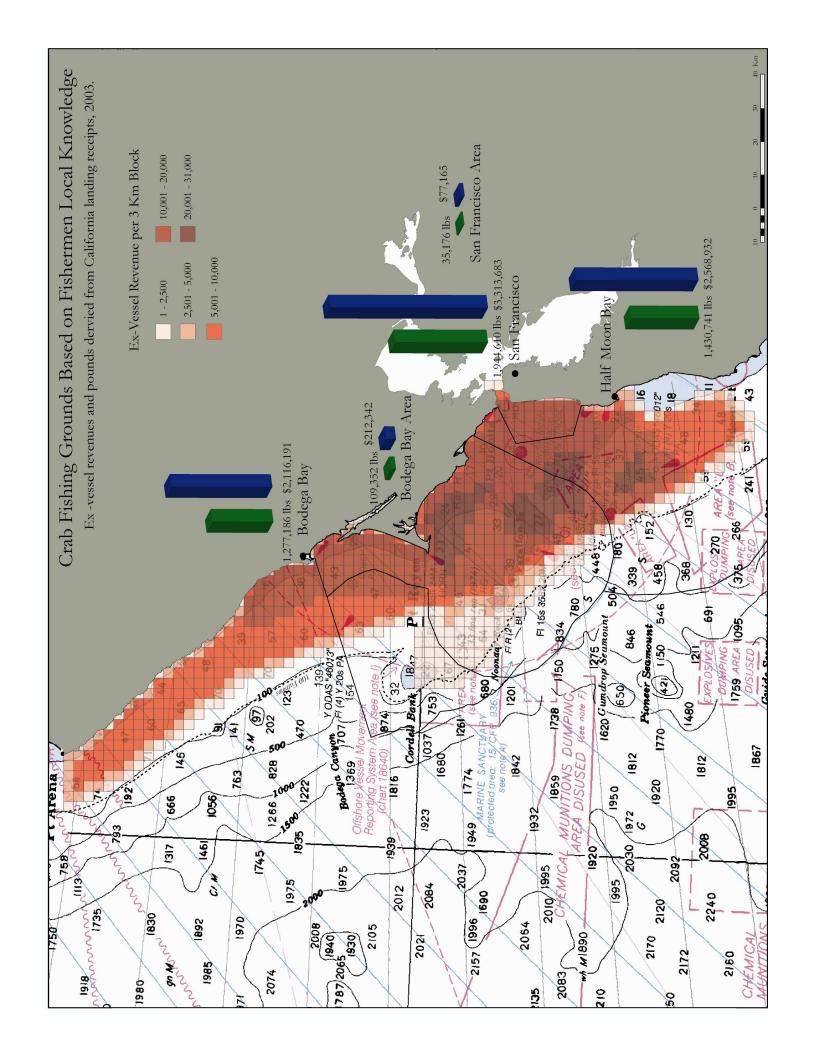
- → Start with Total Economic Value spectrum
- Site specificity: Use ocean zoning to foster spatial segmentations of resources, valuations, conflicts, leasing, other forms of structured "3E" tempered rights.
- Futures trading?
- Examine current efforts in the development of "community trust" instruments for enhancing stewardship, bioeconomic models, and control of assets as a basis for trading.

Total economic value of marine resources



OPPORTUNITIES

- Start with Total Economic Value spectrum
- Site specificity: Use ocean zoning to foster spatial segmentations of resources, valuations, conflicts, leasing, other forms of structured "3E" tempered rights. Establish the knowledge base.
- Futures trading? Commodities or regional specialties?
- Examine current efforts in the development of "community trust" instruments for enhancing stewardship, bioeconomic models, and control of assets as a basis for trading.

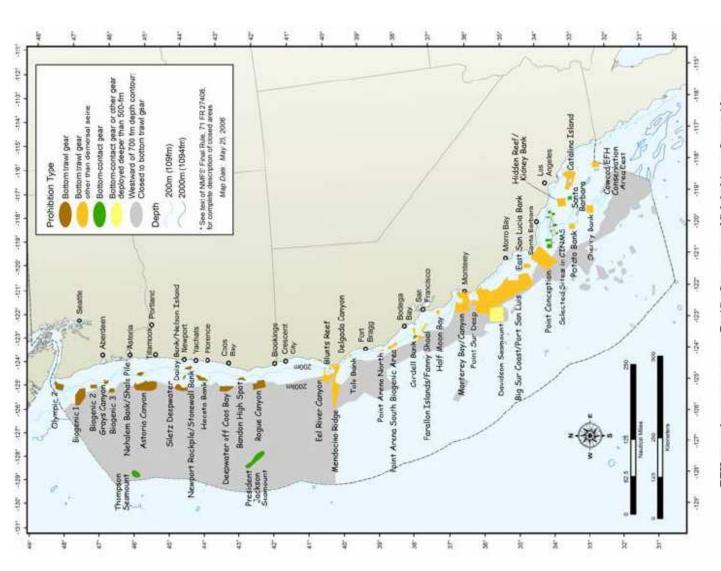


OPPORTUNITIES

- Start with Total Economic Value spectrum
- Site specificity: Use ocean zoning to foster spatial segmentation of resources, valuations, conflicts, leasing, other forms of structured "3E" tempered rights.
- Futures trading? Commodities or regional specialities, bycatch cap and trade?.
- Examine current efforts in the development of "community trust" instruments for enhancing stewardship, bioeconomic models, and control of assets as a basis for trading.
 - (ownership segmentation)

CHALLENGES

- \rightarrow Issues of scale
- Rights, established culture and the commons
- Regulatory environment unstable (e.g. Councils)
- Sorting singular events (easements/buyouts) vs. true markets (recurrent transactions e.g. fisheries quotas)
- Desirables (good things) vs. problems (pollution).
- Building trading mechanisms
- Mobile stocks, lack of geographically specific stock assessments
- Disparate market values in fisheries quota markets between regions (AK, BC, PNW)



EFH area closures to protect Pacific Coast groundfish habitat - Coastwide.

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