

Market Based Approach (MBA) Action Team Meeting 10/24/2013

MDIBL, Davis Classroom in the new Davis Building

In attendance: Jane Disney, Chris Petersen, Natalie Springuel, Bob DeForrest, Jennifer Fortier, Abby Barrows, Brian Reilly

1. Jane provided a brief recap of the 10/2/2013 workshop themes. She adapted a presentation from Tundi Agardy, giving it a Frenchman Bay Context.

There are four categories of Ecosystem Services:

The value of marine ecosystems is best known for the living marine resources they supply. But there are many other services provided people from the bay.

Provisioning Services: for example, food, energy & fuel, minerals & materials, and water

Regulatory Services: for example, climate regulation, natural hazard regulation, water purification & waste treatment, erosion regulation.

Supporting Services: for example, nutrient cycling and primary production:

Cultural Services: for example, aesthetic, educational, recreational, and spiritual services.

Valuing marine ecosystem services in an emerging science; despite these values, coastal and marine ecosystems are at risk, and resources to protect, monitor, and manage them are insufficient

New revenue streams are needed to protect and restore marine ecosystems and the services that they provide.

Market based approaches may be able to provide these funds.

What conditions allow for the development of markets?

- Identification of a service
- Recognition of the value of that service
- Buyers who see the logic of investment
- Sellers who influence the delivery of that service (even devoid of property rights)
- Enabling regulations and rights

- Mechanisms for verification / conditionality

Examples of Innovative Funding Strategies

- Trust Funds, PPPs
- Certification (e.g., MSC)
- Green Seal/Eco-labeling (Maine's Environmental Leadership Certification)
- Biodiversity offsets
- Species banking
- Payment for Ecosystem Services

We discussed some of these mechanisms of funding, and then backed up to look at the conditions that allow for the development of markets. We realized that all of the services discussed above do not apply to Frenchman Bay, so we brainstormed the services that the bay does supply.

Ecosystem Services: FRENCHMAN BAY BRAINSTORM

- Seafood
- Shellfish products
- Providing habitat
 - Forage fish
 - Commercial fisheries
 - Education
- Recreation
 - Kayaks/paddleboards
 - Commercial vs. private recreation
- Quality of life/spiritual inspiration
- Education
- Research
- Atmospheric maintenance
- Jobs
- Building/contractors
- Sporting goods
- Scenery: driving around bay/flying around bay
- Water dependent businesses
- Rentals
- Conservation-based businesses/NGOs
- Increased tax revue
- Food

- Seaweed harvesting
- Government jobs/DMR
- Art/inspirations
- Seaglass: collecting mementos
- Historical/research/funding
- Shell middens: archaeological interest
- Cruise ships- tourist delivery
- Ferry-tourist delivery

We attempted to categorize the services listed above

Lumped categories of services:

- Atmospheric maintenance
- Tourism
- Food
- Housing
- Quality of life
- Jobs
- Recreation
- Municipal revenue
- Habitat
- Education
- Research

We briefly discussed how an economic value is placed on these categories of services. Having numbers might help people recognize the economic value of the services the bay provides.

- Sales Receipts
- Stakeholder Interviews and Surveys
- License sales
- Marine resource landings

We then brainstormed the types of people who are stakeholders and derive benefit from the ecosystem services listed above.

Stakeholders: FRENCHMAN BAY BRAINSTORM

- Commercial fishermen
- Recreational fishermen
- Coastal Residents/summer and year round
- Shorefront property owners
- Rental companies
- Realtors
- Tourists
- Outfitters/guides
- Cruise industry
- Education

- Camps, local and those that come for trips
- Yachters
- Outward bound and the like
- YCC
- Regulators, gov't and municipal
- Fish processors
- Dealers
- Clam wardens
- Harbor masters
- Municipal employees
- Art programs
- Artists
- Restaurants
- Island artisans
- Farmers/markets
- Retail sales
- Ferry
- Buses
- Conservation orgs
- Park service
- Scientists
- teachers
- Built builders
- Boat yards

In order to stay focused, we decided to look at what kinds of stakeholders benefit from the services of each of the habitats and species we have prioritized as conservation targets in our Frenchman Bay Plan.

We decided to create a matrix (see below) so that we could see which cross-section of stakeholders benefitted from which ecosystem services provided by each habitat or species. After beginning this exercise, we realized that some important ecosystem services for each conservation target were not necessarily captured in our broad categorical descriptions. Jane offered to try to repeat the exercise using more defined services that relate to each particular conservation target. Some of these services may be gleaned from the Key Ecological Attributes identified during our Goal Setting Session last year. When we are clearer on which stakeholders benefit the most, across the widest cross-section of ecosystem services, we can prioritize economic studies that will help raise awareness and commitment among particular populations of people who might be most likely to support conservation in Frenchman Bay.

SERVICES	Rec reat ion	J o b s	Municipal revenue (licenses)	Habitat	Edu- cation	Re- search	O y g e n	Tourism	F o o d	Housing	Quality of life
STAKEHOLDERS											
Eelgrass as service											
Commercial fishermen		X									
Municipalities			X								
Restaurants									X		
Shorefront property owners											X
Realtors										X	
Scientists				X							
Residents				X							
Tourists				X							
Mudflats as a service											
Rec clambers	X										
Rec mussel harvesters											
Commercial harvester		X									
Licenses			X								
Restaurant									X		
Shellfish dealers									X		
Commercial harvesters		X		X							
Aquaculturists		X		X							
wormers		X		X							
educators					X						
schools					X						
Scientists						X					
Students						X					
Shorefront prop owners											X
birders								X			
outfitters								X			