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Data Standards for Response and Restoration

Marine Debris Perspective

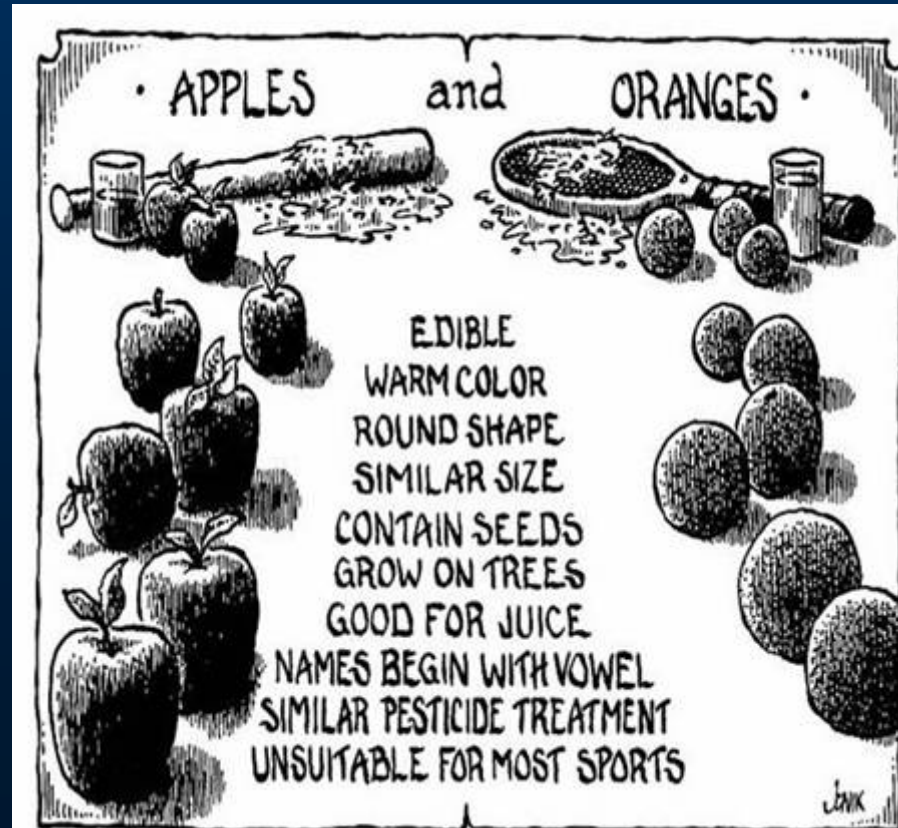
Environmental Response Data Collection Standard Workshop
Coastal Response Research Center
September 26, 2007

Holly Bamford, Ph.D.
&
Nir Barnea
NOAA Marine Debris Program



The Apples and the Oranges...

- Emergency response data and marine debris monitoring, like apples to oranges
- Objective – To develop a data standard that can adapt to a variety of **scientific** field collected data
 - Limited resources
 - Credible datasets
 - Need to maximize ROI
 - *Restoration for the impacted area*
- Can we multi-survey?
 - It has been done already...





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Unalaska SCAT and MD Survey, 2005

December, 2004, M/V Selendang Ayu grounded by Unalaska Island



Photograph ID: _____	Date: ____/____/2005
Segment #: _____	Lat.: _____ Long.: _____ (decimal degrees)
Does this segment appear to be a natural debris collection area: Yes No	
General Description of Debris:	
Approximate Dimensions of Debris (meters): _____	



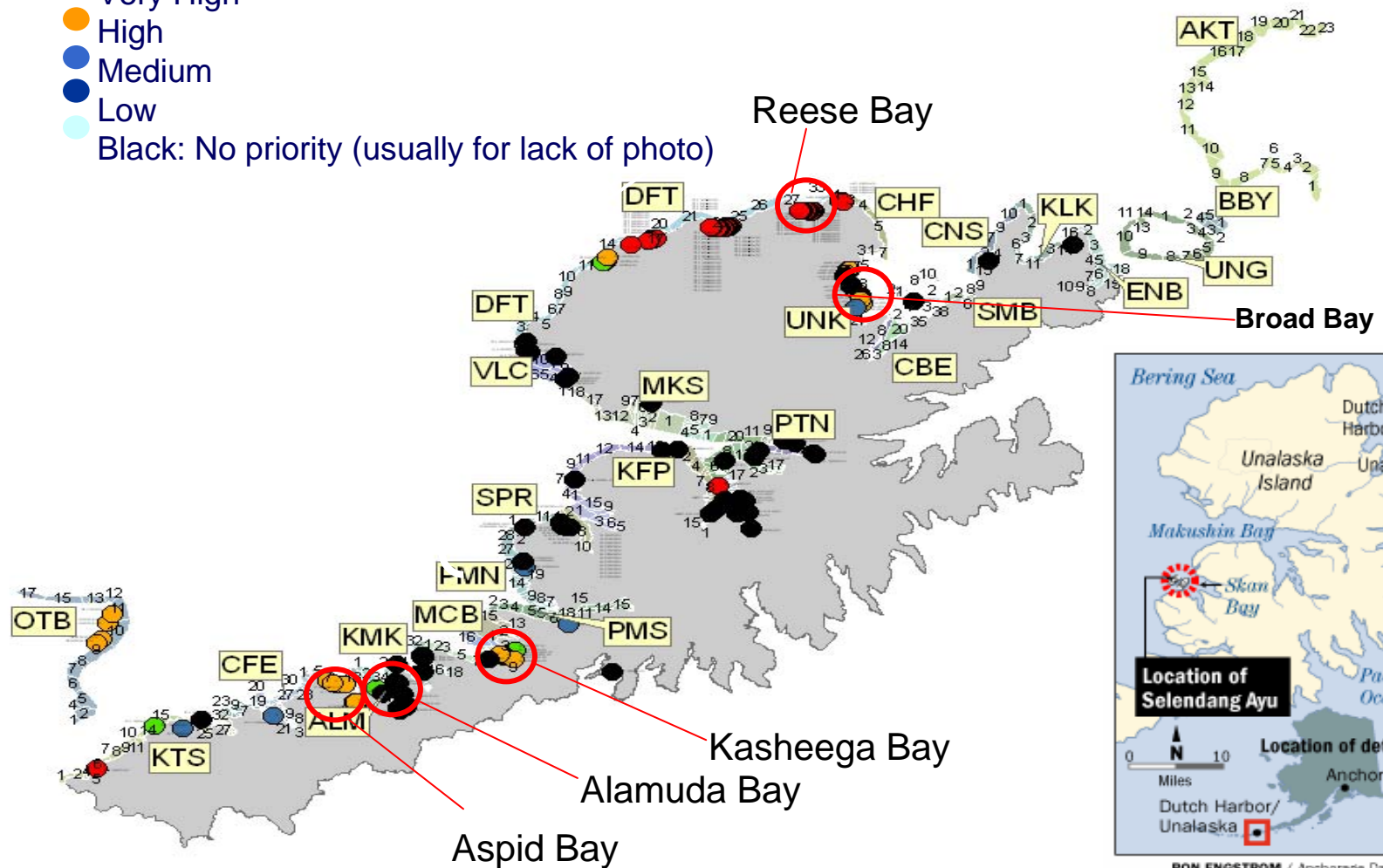
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MD Survey to Database to Maps

Priorities:

- Very High
- High
- Medium
- Low
- Black: No priority (usually for lack of photo)

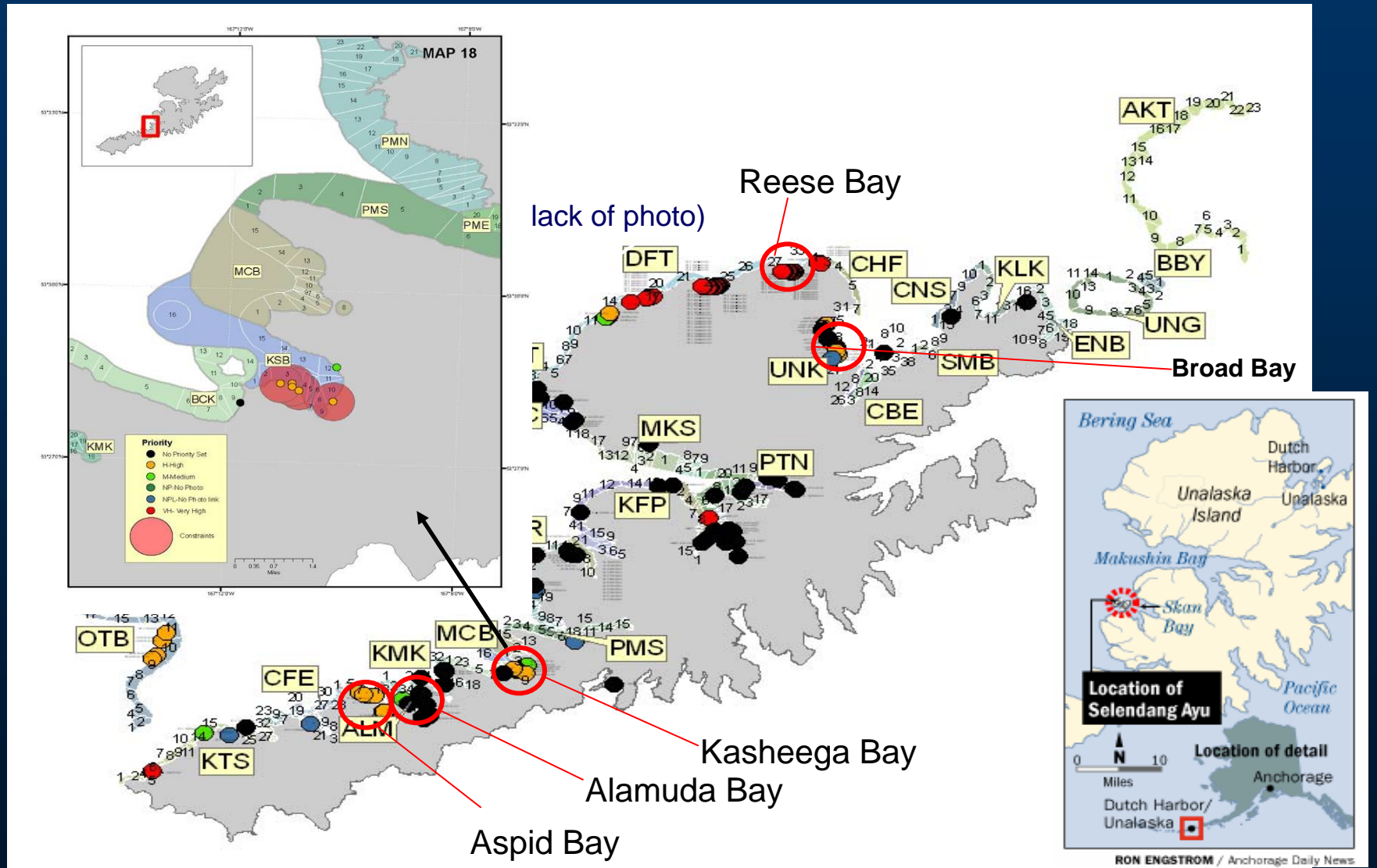




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MD Survey to Database to Maps





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MD Cleanup





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Recycling and Disposal



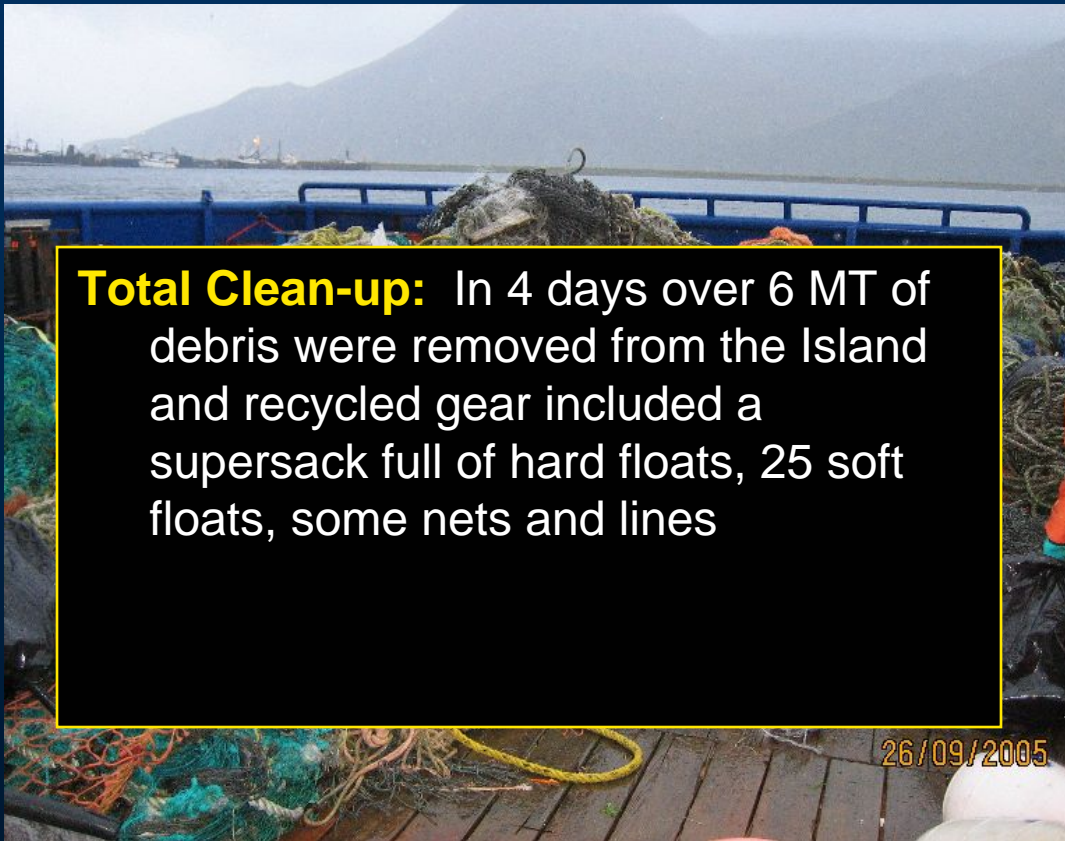


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Recycling and Disposal

Total Clean-up: In 4 days over 6 MT of debris were removed from the Island and recycled gear included a supersack full of hard floats, 25 soft floats, some nets and lines

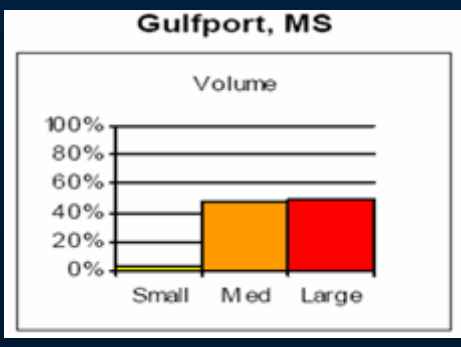
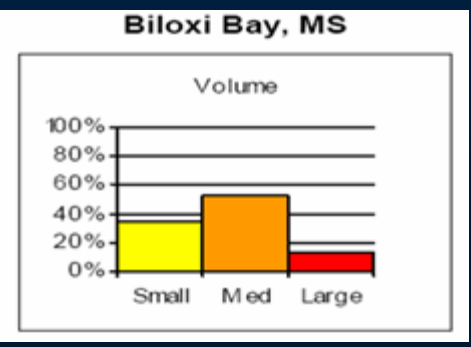
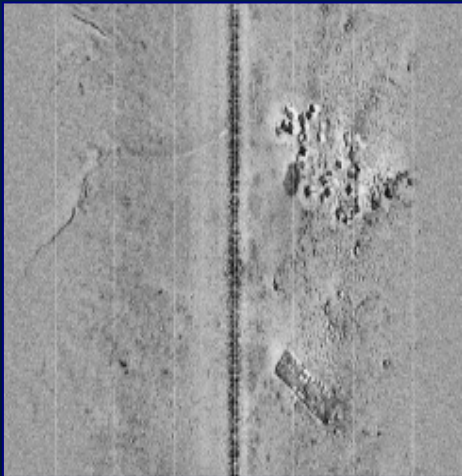
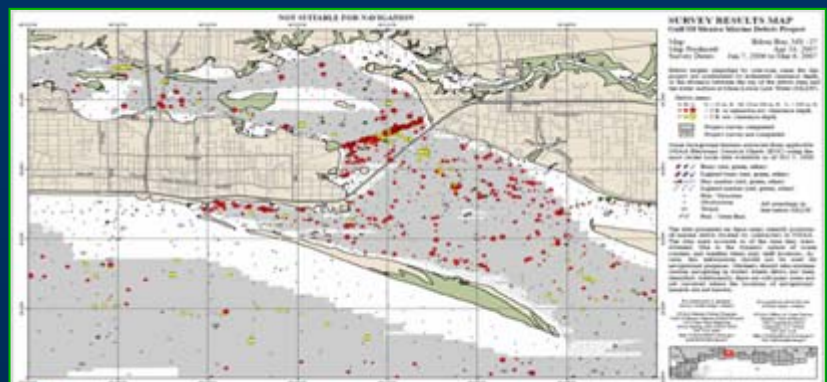




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Hurricane Katrina Response





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Submerged Debris Recovery

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
MARINE DEBRIS PROGRAM

Welcome to the Gulf of Mexico Marine Debris Project
 This website provides information on marine debris in the Gulf of Mexico that resulted from the impacts of hurricane Katrina. New features are added frequently so check back often for updates.

Survey Area
 LATEST DATA UPDATE: 04/27/07
 Please click on the desired map plate to view survey data for that area.
 Shaded plates currently do not have data available for viewing.

Individual State Maps: Alabama • Louisiana • Mississippi

Click on the icon to launch the Interactive Mapper to explore and download data in GIS format. Check back often as we will be adding new data layers.

Click on the icon to view a lot of debris data analysis products for survey area.

NEW! Click on the icon to see models of storm surge in the Gulf coast area resulting from Hurricane Katrina. These models help to understand how marine debris was dispersed into offshore waters by wind and storm surge.

NEW! Click on the icon to download a video clip of U.S. Route 90 bridge completely demolished by Hurricane Katrina.

Project Description
 Click [here](#) to learn more about this project, from how it began and some achievements so far to a few future projects currently in work.

What's New
 All survey maps, contact data and density maps updated on 4/27/07

West Debris Removal Team, Apr. 23, 2007 - Posted 04/23/07

West Debris Removal Team, Apr. 23, 2007 - Posted 04/23/07

West Debris Removal Team, Apr. 9, 2007 - Posted 04/12/07

West Debris Removal Team, Apr. 9, 2007 - Posted 04/12/07

Indianapolis American Airlines, Mar. 30, 2007 - Posted 04/03/07

Upcoming Events
 Restoration 2007, 04/23/07-05/04/07

06 Annual Coastal Development Solutions Conference, 05/07/07-05/09/07

April 2007
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 1 2 3 4 5 6 7
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- Desired Outcomes:
 - Used by all survey operations
 - Support removal operations
 - Interagency collaboration on restoration projects
 - User friendly access to data & maps
 - Diverse clientele
 - A common dataset to create a national database and map of debris hotspot locations



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Food for Thought? Apple-Orange Smoothie

- Selendang incident worked well,.... can we do better than that?
- What could we do to make this kind of cooperation the standard, not the exception?
- What data should be collected?
 - What is already being collected?
 - Spatial and temporal resolution?
- Should the standard be flexible enough to serve other field data collection purposes or new products and technologies?
 - Shoreline vs. submerged marine debris database?