Subaqueous Soil Interpretations

Interpretation	Source	Description	Research	NASIS Need	Notes
SAV Restoration	DE (1 st wkshp)	Major costs associated	URI (Bradley,	Need list of	
		with SAV restoration.	Salisbury, Chrissy)	properties for SAV	
<u> </u>			UFL (Rex)		× 11
Crab Habitat	DE (1 st wkshp)				Input needed
Clam Stocking	DE (1 st wkshp)				Input needed
Management for Sustainable Production - Shellfish	DE (1 st wkshp)	Interps for aquaculture	URI (Salisbury)		
Oyster/Scallop Restoration	RI MapCoast	Major costs associated with shellfish restoration – see RI NRCS EQUIP contracts	(URI (Salisbury)	n-value, surface texture, surface fragments	Maps used in RI by NOAA and NRCS for locating bottom type – hard needed for oysters/scallop. Need to obtain talk at RAE Conference 2008.
Nutrient reduction	DE (1 st wkshp)				
Benthic Preservation Site Identification	DE (1 st wkshp)				
Wildlife management	DE (1 st wkshp)				
Critical Habitats for Wading Shore Birds	DE (1 st wkshp)				
Nurseries and Spawning areas	DE (1 st wkshp)				
Habitat Protection for	DE (1 st wkshp)				
Horseshoe Crabs					
Dredging Island Creation	DE (1 st wkshp)				
Tidal Marsh Protection and	DE (1 st wkshp)				
Creation					
Bathymetric Map	DE (1 st wkshp)	Needed data set for SAS mapping. Need to partner with NOAA.	URI (Bradley), UMD (Marty)	Not needed, spatial data collected	Number 1 data need from RI user conference.

Navigational Channel	DE (1 st wkshp)	Major money spent on			Part of the soil
Creation/ Maintenance		dredging navigation			mapping to locate
		channels			anthropogenic
					channels, need units
					based on texture.
Effects of Dredging on	DE (1 st wkshp)				
Benthic Ecology					
Off Site Disposal of Dredge	DE (1 st wkshp)				Combined with one
Spoil					below
Acid-Sulfate Weathering	DE (1 st wkshp)	Hazards associated	URI (Salisbury)	Incubation pH,	Also need to map
Hazards		with dredge disposal		texture	these historic
					disposal sites on soil
					survey.
Accretion rates	RI MapCoast				Amount of
					sedimentation in an
					area. Obtained from
					core.
Heavy Metals / Health Issues	RI MapCoast	Geochemistry and	URI (Dyer – ecoli,	Lab data from	
(pathogens)		biologic constituents	URI-GSO data)	university, XRF	
		of the soils		data.	
Freshwater Inputs	RI MapCoast	Freshwater inputs			
		entering an estuary can			
		be identified by			
		temperature,			
		conductivity and cores			
		(aeric or bright colors)			
Archeological – prehistoric	RI MapCoast		URI (Boothroyd	Depth to Pleistocene	Investigations have
landscapes			student)	contact.	been done for Cape
					Wind project. Side-
					scan and sub-bottom
					needed.
Dune	DE (1 st wkshp)				Coastal soil
maintenance/Replenishment					mapping, source of

					sand from dredge
					projects
Baseline Data – chemical,	RI MapCoast		Ongoing collection	Lab analysis and	This is the chemical
spatial, habitat			of core data.	reports in SDM.	and physical
					properties tables in
					a soil survey – base
					line data prior to an
					event (oil spill,
					storm, etc.)
Classification of the soils	RI MapCoast			Wass added to	
				taxonomic	
				placement	
Coastal soils information	RI MapCoast			Standard interps for	Older surveys and
				hydric, septic, etc.	surveys that did not
					map intertidal (mud
					and sand flats) and
					anthropogenic soils
					need updating.
Phosphorus	VT. NRCS				
Invasive Species	RI MapCoast	Numerous requests for	RI NRCS – ponds	Herbicide	
		soils information in		movement, etc.	
		fresh water ponds for			
		invasive control			
Peat thickness / volume	RI MapCoast				Carbon sinks,
					potential fuel
					source.
Energy (offshore wind)	RI MapCoast				