APNEP Decision Support Tools Kickoff, DEC Notes 7/28/16

Participants in attendance: Tom Allen (ODU), Rob Howard (ECU), Sol Weunsch (Pitt County GIS manager), Alex Manda (ECU), Amy Keister (SALCC), Margaret Fields (TNC), Jeff Brown (NCGIA), Ken Richardson (NC-DCM), John Fear (NCSG, WRRI), Danielle Kulas (VA-NHP), Marcia Berman (VIMS). Participants on WebEx: Devon Eulie (UNCW), Michelle Covi (ODU), Mike Griffin (NC DMF).

CSH: Welcome to participants. APNEP overview slide presentation. DST Action Team just posted on APNEP web site. All documents for the team will be provided via the website and google docs.

TA: All action teams feed into an APNEP Implementation Committee.

NC Coastal atlas: base funding from NOAA, would like to see Atlas involved in these applications.

DEC: Action teams should focus on developing a 2-3 year plan for each of the actions assigned.

MB: Working on an update inventory for Virginia. Interested in making seamless the VA-NC boundary. Worked on APNEP project monitoring shoreline condition.

JB: Quality assessment, reliability.

TA: One way to go is inventory. Status of NC-NHP?

WLC: NC-NHP is actively involved

JB: NC-NHP has a comprehensive layer on land management

WLC: Conservation Planning Tool inactive

KR: Suggest start with the user, questions to prioritize.

TA: Agree. Salinity, SAV, invasive species (e.g., *Phragmites*), water level

MF: Involved with coastal resilience tool? New tool, started with specific goal. Looking at areas vulnerable to SLR. Includes Dare County.

WLC: Could approach other action teams, for example oysters, to ask where the gaps are. Kind of a mini-needs assessment.

TA: Bathymetric definition?

AM: Baseline would be useful. Converting data to spatial form that is useable to end users.

TA: Suggest a needs assessment to other groups.

MB: What are types of conservation planning tools?

DC: Conservation vision tool in VA, not in NC. However many of the inputs are national datasets.

MB: Examples of products that are developed in VA and adapt to NC. Question whether it is being used by end user.

TA: Data model to extrapolate from data limitation.

JF: NCSG just funded SalWise database to make it accessible for NC Atlas.

TA: SalWise a historical database, how to incorporate future data collection.

JB: Trail access as part of ecotourism.

MF: John Amoroso at NC-DPR knowledgeable about trail access.

AK: Urban growth projections in SALCC. May be of interest to explore adding options in the APNEP region.

TA: SLR models. Advisory role for SLR risk assessment for NC. Produced a methodology for salt marsh distribution. Marsh migration potential.

AK: Used a NOAA marsh migration product, dumbed-down version of SLAMM but higher resolution elevation data.

WLC: APNEP has an access team, have not convened yet, but will look at shoreline access, for example southern shoreline of Ablemarle Sound.

TA: Strategic Habitat Areas (SHAs). Fishing maps.

MB: A number of decision tools that could be adapted. Living shoreline model.

TA: 5-10 focus layers to make seamless. Land cover: C-CAP.

MB: New land use layer coming out.

JB: August 25 meeting on land cover in Raleigh at USGS.

KA: SALCC tool uses SLEUTH urban growth model with 2011 NLCD. One HUC-12 at a time. Decadal output to 2100. On-screen demonstration by KA.

MB: Peter Claggett (USGS) has done land use change modeling in Chesapeake.

TA: Dasymetric mapping in NC Coastal Atlas. On-screen demonstration by RH.

TA: Land use on coastline buffers.

JB: Looking at smaller parcels along shoreline.

TA: People, parcels, property a second theme to land use.

MB: Wastewater treatment layer. Monitoring fecal coliform. Correlation between failing septic system or intense development.

Habitat

Shoreline hardening

TA: CAFO, hog farms.

Phragmites

Wetlands (extent).

MB: public access.

MB: GeoPortal for Adapt Virginia, allows contributors of data.

TA: GSAA, MARCO portal

MB: West Coast Governor Alliance, great model for portal. VIMS looking at social vulnerability, link to physical vulnerability. Use micro-topography to identify catchment basins around every wetland.

TA: E2.2: dashboard

DEC: APNEP staff will be responsible for starting on E2.2

JB: Need clear idea of what the users want.

KR: Design tools for each APNEP action

MB: The other action teams are the customers for this team.

CSH reviewed action items:

1. Evaluation of conservation management tools

2. Framework layers suggested:

- Salt Marsh

- Access

- Shorelines

- Land Use/Land Cover

- Parcels

- Wastewater Treatment Systems

- Septic Systems

- CAFO's

- Salinity

- SAV

- Invasives

3. Tools for projections

4. Point sources for data - central database

- Web Services

- Clearinghouses

CSH: An email will be sent with a google sheet link to collect information. Team members are requested to provide a list of conservation management tools, suggest important framework layers, list tools for projections, and list central database sources.