Developing the Integrated Geospatial Framework to Support an Offshore Zoning Plan in Rhode Island's Coastal Waters

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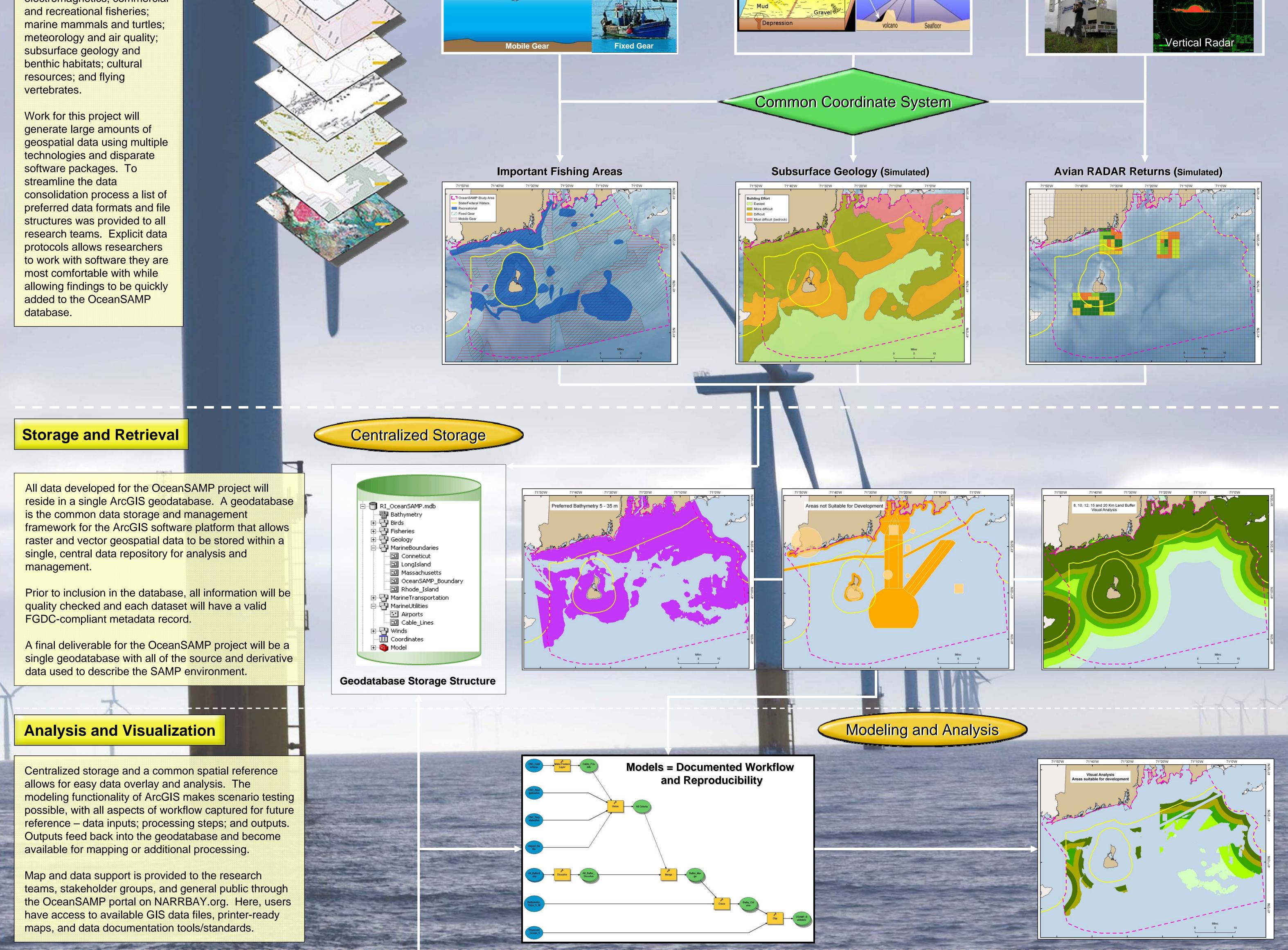
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Abstract: The Rhode Island Ocean Special Area Management Plan Project (Ocean SAMP) is a two-year study to characterize and zone Rhode Island's offshore marine environment. The aim of this work is to integrate the best available science with active stakeholder participation to develop a management plan that balances development potential with existing uses and habitat protection. The University of Rhode Island's Environmental Data Center (EDC) is part of a consortium of researchers and planners assisting with this effort, and has been tasked with developing the data storage/retrieval system, assisting with spatial modeling and providing mapping/visualization support for the research teams and stakeholders. Much information will be collected and analyzed during the course of this work and it is imperative that these data of differing sources, scales and easily accessible by both researchers and the public. Technical challenges in creating an integrated geospatial database from all the baseline and preexisting studies include converting data to a common format and decisionmakers. This poster provides an overview of the data handling procedures that have been implemented to streamline data consolidation and visualization procedures and protocols. Ultimately, all map and data products used to describe the OceanSAMP area will be web-accessible via the NARRBAY.org website.



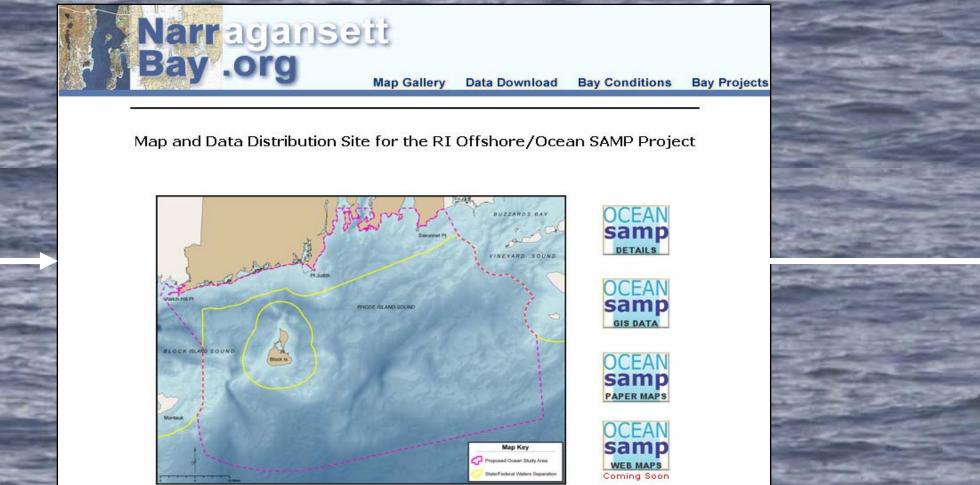
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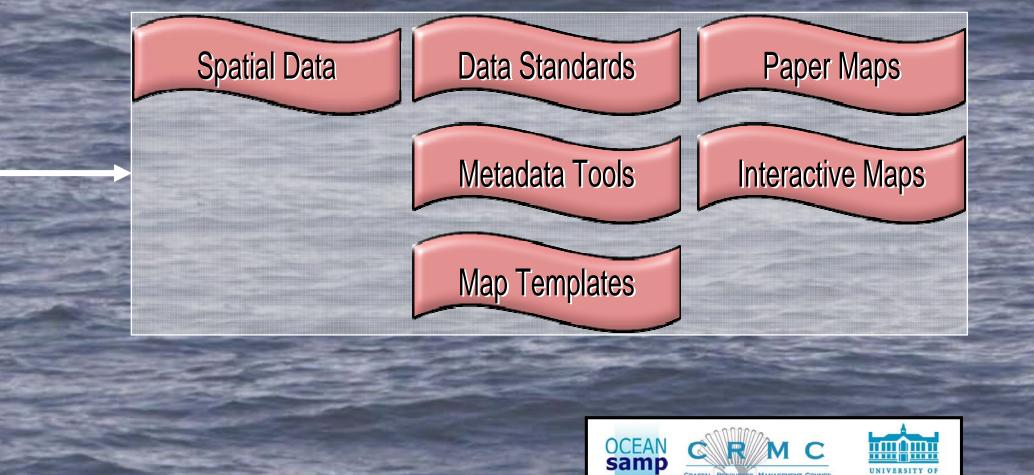


Next Steps

Thus far, the geospatial focus has been to develop the framework necessary to integrate data collection efforts with the marine spatial planning components. Next steps include an ecological analysis to map critical habitats, as well as distribution of birds, bats, marine mammals, sea turtles, and fisheries resources. Each species, habitat, or use will receive its own ecological service value (ESV). Individual ESVs will be combined into an overall Ecological Services Value Index (ESVI) for the SAMP study area. These index values will be the primary input for the offshore zoning plan and will be useful for evaluating impacts of future development proposals.







For more information: Technical and background reports -- http://seagrant.gso.uri.edu/oceansamp Maps and Data -- http://www.narrbay.org