



Name	Coastal Sea-Level Change Societal Challenge Needs Assessment Report
Description	<p>From the Executive Summary: NOAA has focused its efforts on four climate-related challenges to society. These challenges represent a spectrum of local and national needs for which NOAA can develop and deliver services, and provide information, that can help inform effective adaptation actions and other climate-sensitive decisions. The four societal challenges, as defined in “A Climate Service in NOAA: Connecting Climate Science to Decision Making – Vision and Strategic Framework,” are</p> <ol style="list-style-type: none"> <li>1. Climate Impacts on Water Resources Providing coordinated and authoritative information systems to guide water resource managers.</li> <li>2. Coasts and Climate Resilience Understanding physical processes driving sea-level rise and coastal inundation, and providing best available information to decision makers on sea-level change impacts and adaptive management strategies.</li> <li>3. Sustainability of Marine Ecosystems Improving understanding of, and information about, the impacts of climate on ocean physical, chemical, and biological properties critical to managing large marine ecosystems.</li> <li>4. Changes in Extremes of Weather and Climate Developing and delivering information to prepare for and adapt to climate and weather extremes, including droughts, floods, heat waves, and cold snaps.</li> </ol> <p>This needs assessment will focus on challenge 2 on the resilience of coasts to the impacts of sea-level change. The term sea-level change acknowledges that while global or eustatic sea levels are rising, local levels, or relative sea levels in certain places, may be rising or falling.</p> <p>The results of the literature review on the challenge of coastal sea-level change, presented in this document, represent a snapshot of gaps in data, information, and services as captured in 55 documents, presentations, and publications. This synthesis of findings highlights the needs of coastal decision makers for resources that can assist them in making informed decisions about the risks and impacts of sea-level change. The results of this report are intended to provide NOAA with current information on the needs of coastal decision makers in order to guide its development of trainings, engagement efforts, decision-support tools, and applications.</p>

Type	<ul style="list-style-type: none"> <li>- PRODUCTS: Other</li> <li>- PRODUCTS: Training and Capacity Building</li> </ul>
Sector	<ul style="list-style-type: none"> <li>- Natural Ecosystems</li> <li>- Social and Cultural Resources</li> </ul>
Focus Area	<ul style="list-style-type: none"> <li>- Sustainability of Marine Ecosystems</li> <li>- Coasts and Climate Resilience (including sea-level rise)</li> </ul>
Region	<ul style="list-style-type: none"> <li>- National</li> </ul>
Lead Agencies	NOAA Sea Grant