Comparing Flooding and Sea Level Rise Risk Assessment Tools

Hampton Roads Sea Level Rise/Flooding Adaptation Forum

September 19, 2014

www.mari.odu.edu/workshops/20140919\_Forum/

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| Tool | Description | URL |
| Climate CentralSurging Seas Risk Finder | Interactive mapping tool - maps of areas below different amounts of sea level rise and flooding, down to neighborhood scale, matched with area timelines of risk.  | [http://sealevel.climatecentral.org/surgingseas/](http://sealevel.climatecentral.org/surgingseas/place/states/VA%23show%3Dcities%26center%3D7/38.018/%E2%80%9079.421)  |
| NOAA Digital Coast: Sea Level Rise and Coastal Flooding Impacts Viewer | Displays potential future sea levels | <http://csc.noaa.gov/digitalcoast/tools/slrviewer> |
| The Nature Conservancy Coastal Resilience 2.0 | Identify solutions for risk reduction and conservation | [http://maps.coastalresilience.org/us/#](http://maps.coastalresilience.org/us/) |
| VIMS Center for Coastal Resource Management | This portal links you to guidance, data, and tools pursuant to recent policy changes in tidal shoreline management adopted by the General Assembly. | http://ccrm.vims.edu/ccrmp/index.html |
| NOAA Coastal Inundation Analysis Tool | Provides summary statistics, includes the number of occurrences of inundation above the threshold and length of duration of each event for a specified time. | http://tidesandcurrents.noaa.gov/inundation/ |
| FEMA Region III Coastal Analysis and Mapping | Flood Insurance Rate Maps (FIRMs) | [http://www.r3coastal.com/home/storm‐surge‐study/storm‐selection‐parameters](http://www.r3coastal.com/home/storm%E2%80%90surge%E2%80%90study/storm%E2%80%90selection%E2%80%90parameters) |
| NASA Langley Flood Impact Tool | Provides guidance for flood preparation and planning for NASA Langley, Langley Air Force Base, City of Poquoson and Fort Monroe | not publically accessible |
| USACE Planning Community Toolbox |  Planning Community Toolbox includes information for planners and project delivery teams- policy, guidance, processes, and tools. | <http://planning.usace.army.mil/toolbox/> |
| FutureCoasts | Explore coastal flooding and sea level rise impacts (Ann Arundel County, MD) | http://www.futurecoast.info/ |
| HAZUS | Models for estimating potential impacts from flooding | <http://www.fema.gov/hazus> |
| Mid‐Atlantic Regional Association Coastal Ocean Observing System | (Maracoos): Integrated Ocean Observation System | <http://maracoos.org/> |
| NOAA Coastal Planning Advisor | Assemble the data and information needed for effective decision making related to a coastal issue(s) | [http://www.csc.noaa.gov/coastalplanningadvisor/#/](http://www.csc.noaa.gov/coastalplanningadvisor/%23/) |
| USGS Flood inundation | The USGS Flood Inundation Mapping Program focuses its efforts at state and local levels to help communities understand flood risks and make cost-effective mitigation decisions.  | http://water.usgs.gov/osw/flood\_inundation/ |