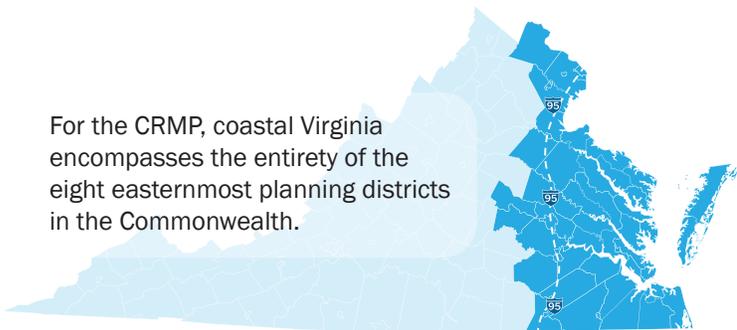


Flood Resilience Planning Data for Coastal Virginia

The Department of Conservation and Recreation (DCR) is responsible for developing the Virginia **Coastal Resilience Master Plan (CRMP)**. In 2024, DCR developed and compiled forward-looking coastal, rainfall-driven and riverine flood hazard data products spanning the entirety of “coastal Virginia” for the Phase II Plan.

These spatial datasets are **free and open to the public** to use to support efforts to increase resilience to multiple types of flood hazards.

For the CRMP, coastal Virginia encompasses the entirety of the eight easternmost planning districts in the Commonwealth.



Looking for data for other parts of Virginia?

DCR can provide public entities with access to alternative statewide flood hazard data. Contact us to learn more.

WHAT ARE THE SOURCES BEHIND THE DATA?



Coastal: Model inputs for future scenarios leveraged NOAA’s relative sea level rise projections.



Rainfall-Driven: Model inputs for future scenarios leveraged MARISA’s intensity-duration-frequency precipitation estimates.



Riverine: FEMA National Flood Hazard Layer filtered to only riverine flooding. Future scenarios are not available.

WHAT DATA IS AVAILABLE?

- **Coastal, rainfall-driven (pluvial), and riverine (fluvial) hazards.** Each dataset was produced using the best available data to meet the demands of the CRMP development at the time of its production. Multiple combined versions of these datasets are also available.
- **Multiple flood recurrence intervals.** Coastal and rainfall-driven flooding are available for the 1 in 2, 5, 10, 25, 50, 100 and 500 year return frequencies. Coastal flooding is also available for multiple tidal ranges. Riverine flooding is only available for the 1 in 100 year return frequency.
- **Five planning scenarios.** All data is available for baseline conditions (2020). Coastal and rainfall-driven data is also available for near future (2030-2060) and far future (2060-2100) scenarios in both “moderate” and “high” options. This reflects uncertainty in climate projections and provides options for use under different risk tolerances and time horizons.
- All data is available in spatial formats compatible with GIS applications. Coastal and rainfall-driven data is available as extents and depths at 10-foot resolutions. Riverine data is available in extents only and the resolution of the data varies across the region.

HOW CAN I ACCESS THE DATA?

Visit the Flood Resilience Open Data Portal for viewers, resources, and access to data:

floodplan-vdcr.hub.arcgis.com

From there, you can integrate with DCR’s GIS web services via the ArcGIS REST Services Directory. You can also download data from the Public File Repository.

Contact us for assistance or additional details on data development methodology.

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