Data Documentation

Dataset Information

Dataset Title:

NCCOS Assessment: Assessing Community Risk in Relation to Coastal and Inland Natural Hazards in Maine's Washington County and Greater East Grand Region, 2024-11-01 to 2025-04-01. https://doi.org/10.7910/DVN/SICI8E

Description:

This dataset includes indices and indicators for Maine's Washington County and Greater East Grand Region focused on population density; critical infrastructure; storm surge hazard; stormwater flood hazard; winter ice storm hazard; wildfire hazard; structural risk from storm surge, stormwater, wildfire, and winter ice storm hazards; soil erodibility; stormwater/erodibility; comprehensive road-stream crossings; road-stream crossing risk; road segment isolation; road isolation risk from road-stream crossings and stormwater, winter ice storm, and wildfire hazards; service area isolation risk; co-occurrence; and supporting datasets as appropriate. Data archived as points, polygons, polylines, or 30x30 meter resolution rasters. See corresponding report for greater detail.

Data were developed for the National Centers for Coastal Ocean Science (NCCOS) Community Risk Assessment: Assessing Community Risk in Relation to Coastal and Inland Natural Hazards in Maine's Washington County and Greater East Grand Region. The accompanying methods report is included within this package (https://doi.org/10.25923/jkv3-gw89). Version 2 of this archival includes an additional mapbook communications product (https://doi.org/10.25923/yway-px45).

Methods:

For methods, data sources, and related publications see corresponding methods report: *Assessing Community Risk in Relation to Coastal and Inland Natural Hazards in Maine's Washington County and Greater East Grand Region,* which is included as part of this package.

Primary Point of Contact:

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Funding:

US DOC; NOAA; NOS; National Centers for Coastal Ocean Science (NCCOS) (ROR-https://ror.org/05ba43f71)

Keywords:

Sea Areas, Water Bodies, Marine Protected Areas:

- Atlantic Ocean
- Maine

Discovery Theme Keywords:

- Risk Assessment
- Coastal Communities
- Coastal Risk
- Community Risk

NCCOS Keywords:

- NCCOS Research Priority > Social Science
- NCCOS Research Priority > Coastal Change: Vulnerability, Mitigation, and Restoration
- NCCOS Research Topic > Climate Impacts
- NCCOS Research Location > Region > Atlantic Ocean
- NCCOS Research Location > U.S. States and Territories > Maine
- NCCOS Research Location > U.S. States and Territories > Maine > Greater East Grand Region
- NCCOS Research Location > U.S. States and Territories > Maine > Washington County
- NCCOS Research Data Type > Geospatial

Associated Online Resources:

- Assessing Community Risk in Relation to Inland and Coastal Flood Hazard in Maine's Washington County and Greater East Grand Region (https://coastalscience.noaa.gov/project/assessing-community-risk-in-relation-to-inland-flood-hazard-in-washington-county-and-east-grand-region-maine/)
- Programmatic Execution of NCCOS Community Risk Assessments (https://coastalscience.noaa.gov/project/programmatic-execution-of-nccos-risk-assessments/)

Date of Collection:

Start Date: 2024-11-01
End Date: 2025-04-01

Geographic Bounding Box (Decimal Degrees)*:*

Northern Boundary: 46.8230274
Southern Boundary: 43.3423063
Western Boundary: -70.4638597
Eastern Boundary: -64.8663419

File Information

Total File Size: 501.81MB (Version 1), 659MB (V2; addition of mapbook)
Data File Format(s):

- Comma-separated value (.csv)
- Adobe PDF (.pdf)
- Esri File Geodatabase (.gdb)
  - Esri File Geodatabase Raster
  - Esri File Geodatabase Feature Class

Data File Compression: zipped
Data File Resolution: 30x30m raster grid

GIS Projection: NAD 1983 UTM Zone 19N (WKID: 26919)

Documentation Files:

- NCCOS_Maine_RiskAssessment_DataDictionary (.csv)
- Maine RA_Methods Report_Archival (.pdf)
- NCCOS_Maine_Risk_Assessment_Data_Documentation (.pdf)
- Washington County Risk Assessment Mapbook (.pdf) (included in V2)

NCCOS Maine Risk Assessment Geodatabase Structure

- NCCOS_Maine_RiskAssessment.gdb
    - Boundaries (Feature Dataset)
        - NCCOS_Maine_Risk_Assessment_StudyArea (Polygon)
        - Study_Area_Territories (Polygon)
    - Community_Isolation (Feature Dataset)
        - Compounded_Hazard_Road_Isolation_Risk_Index (Polyline)
        - HealthBased_ServiceArea_Isolation_Risk_Index (Polyline)
        - OrderSafetyBased_Service_Area_Isolation_Risk_Index (Polyline)
        - Overall_Service_Area_Isolation_Risk_Index (Polyline)
        - Road_Segment_Isolation_Index (Polyline)
        - Road_Steam_Crossings_Road_Isolation_Risk_Index (Polyline)
        - ServicesBased_Service_Area_Isolation_Risk_Index (Polyline)
        - Stormwater_Flooding_Road_Isolation_Risk_Index (Polyline)
        - Wildfire_Road_Isolation_Risk_Index (Polyline)
        - WinterIceStorm_Road_Isolation_Risk_Index (Polyline)
    - Road_Stream_Crossings_And_Indices (Feature Dataset)
        - Comprehensive_RoadStream_Crossings (Point)
        - RoadStreamCrossing_Risk_Index_Flooding_Only (Point)
        - RoadStreamCrossing_Risk_Index_SoilErodibility_Only (Point)
        - RoadStreamCrossing_Risk_Index (Point)
    - Roads (Feature Dataset)
        - Modeled_Roads (Polyline)
    - Routable_road_network_dataset (Feature Dataset)
        - Routable_road_network (Network Dataset)
        - Routable_road_network_Junctions (Point)
        - Routable_roads (Polyline)
    - Critical_Infrastructure (Feature Dataset)
        - Structural_Index (Point)
    - Structural_Hazard_Risk (Feature Dataset)
        - CompoundedHazard_StructuralRiskIndex (Point)
        - CompoundedHazard_StructuralRiskIndex_Excluding_StormSurge (Point)
        - StormSurge_Hazard_StructuralRiskIndex (Point)
        - Stormwater_Flood_Hazard_StructuralRiskIndex (Point)
        - Wildfire_Hazard_StructuralRiskIndex (Point)
        - WinterIceStorm_Hazard_StructuralRiskIndex (Point)
    - Drainage_Class_Indicator (30-meter raster)
    - Drainage_Network_Indicator (30-meter raster)
    - Elevation_Indicator_IceStorm (30-meter raster)
    - Elevation_Indicator_Stormwater (30-meter raster)

- Flow_Accumulation_Indicator (30-meter raster)
- Geology_HydrologicSoilGroup_Indicator (30-meter raster)
- Hydrologic_Soil_Group_Indicator (30-meter raster)
- WinterIceStorm_Hazard_Index (30-meter raster)
- LandUseLandCover_Indicator_IceStorm (30-meter raster)
- LandUseLandCover_Indicator_Stormwater (30-meter raster)
- Population_Density_Index (30-meter raster)
- Population_density_index_by_group_class (30-meter raster)
- Rainfall_Intensity_Indicator (30-meter raster)
- RoadStreamCrossing_Density (30-meter raster)
- Slope_Indicator (30-meter raster)
- Soil_Erodibility_Index (30-meter raster)
- Soil_erodibility_index_by_group_class (30-meter raster)
- Storm_surge_hazard_index_by_group_class (30-meter raster)
- StormSurge_Hazard_Index (30-meter raster)
- Stormwater_Erodibility_Index (30-meter raster)
- Stormwater_Flood_Hazard_Index (30-meter raster)
- Stormwater_flood_hazard_index_by_group-class (30-meter raster)
- Structural_Density_Index (30-meter raster)
- Wildfire_Hazard_Index (30-meter raster)
- Wildfire_hazard_index_by_group_class (30-meter raster)
- Wind_Erodibility_Group_Indicator (30-meter raster)
- WinterIceStorm_Hazard_Index_by_group_class (30-meter raster)
- Winter_Precipitation_Indicator (30-meter raster)

Parameter Description:

Parameters:	Community risk
Property Type:	Calculated
Units:	30x30 meter raster, polygon, polyline, point
Observation Category:	Modeled data
Sampling Instrument:	Secondary data analysis
Software name and version:	ArcGIS Pro 3.4.0
Sampling and Analyzing Method:	See corresponding methods report

Document Information

Date Last Updated:	2025-11-17
Resource Provider:	NCCOS Data Manager, nccos.data@noaa.gov, US DOC; NOAA; NOS; National Centers for Coastal Ocean Science (NCCOS)
Comment:	This data documentation describes data files archived as a NOAA NCEI data accession, and is intended to provide dataset-level metadata for the purposes of discovery, use, and understanding.
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