

# Model Inputs

(R-readable geospatial files)

## Spatial Extent

- Region: New York Bight watersheds
- Focal boundary: user-defined polygon, NUBB study area, HATS study area,...
- Ocean Extent: 20m ocean depth contour
- Upland extent: Bed Elevation > mean higher high water (MHHW)

## Hydrodynamic Variables

- Bed elevation
- Water surfaces: mean lower low water (MLLW), mean tide level (MTL), MHHW, 0 to 100% exceedance by 10%
- Salinity: mean annual, 0 to 100% exceedance by 10%
- Velocity: mean annual, 0 to 100% exceedance by 10%

## Other Environmental Variables

- Substrate (TNC, usSEABED)
- Urban land use (NLCD)
- Vegetation cover (NLCD)
- Shoreline armoring (ESI)
- Vessel density (AIS)

# New York Bight Ecological Model

(nybem R-Package)

## Habitat Mapping Functions

- Set tidal zone (`set_tidal_zone`)
- Set salinity zone (`set_salinity_zone`)
- Set habitat type (`set_habitat_zone`)

## Habitat Quality Functions

- Check raster format (`is_RasterLayer`)
- Compute suitability indices (`S1calc`)
- Compute overarching habitat suitability index (`H31calc`)

## Habitat Suitability Curves

- Freshwater, tidal (`fre.tid`)
- Estuarine, intertidal (`est.int`)
- Estuarine, subtidal, hard bottom (`est.sub.hard`)
- Estuarine, subtidal, soft bottom (`est.sub.soft`)
- Marine, intertidal (`mar.int`)
- Marine, subtidal (`mar.sub`)
- Marine, deep (`mar.deep`)

# Model Outputs

(geospatial layers)

Habitat  
Quantity

Habitat  
Units

Habitat  
Quality

# Ecological Stress And The New York Bight Science And Management

**Ian Pickup**



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