

Metadata

Remote sensing of tidal wetlands using NAIP imagery and NED elevation data

Geographic Extent

Coastal zone of Maine, New Hampshire, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Delaware, Maryland and Virginia.

44°49'18.21"N, 66°56'50.58"W

37° 6'48.86"N, 76°41'53.86"W

Data origin

This set of files was produced by the Saltmarsh Habitat and Avian Research Program (SHARP), www.tidalmarshbirds.org

Contact Mo Correll with questions regarding this dataset:
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Funding

Funded by a grant from the USFWS / North Atlantic LCC (# 24).

Description

This raster layer describes the salt marsh communities in the Northeast Atlantic coast of the United States, from northern Maine to Virginia in 3 X 3 m pixels. It identifies eight distinct cover/community types: High Marsh, Low Marsh, Pools/Pannes, Terrestrial border, *Phragmites australis*, Mudflat, Upland, and Open Water.

Data use and limitations

The dataset can be used free of charge with proper citation. Until publication of this layer in peer-review publication, please follow the suggested citation:

W Hantson, BJ Olsen, CS Elphick, WG Shriver, BB Cline, EL Tymkiw, and MD Correll, 2017. A classification of tidal marsh vegetation communities of the northeastern US. Product of the Saltmarsh Habitat and Avian Research Program (SHARP). Available at: https://www.tidalmarshbirds.org/?page_id=1871

This dataset may not be used for commercial purposes.

Time period

Field data were collected during summer 2015 & 2016

NAIP Imagery obtained in 2014 & 2015

DEM from the most recent data available (National Elevation Dataset)

Software used

R, QGIS, ArcMap 10.3

Raster attribute table:

1	High Marsh
2	Low Marsh
4	Mudflat
5	Phragmites
6	Pool/Panne
7	Stream
8	Terrestrial Border
9	Upland

Spatial Reference projection information

ESPG: 26918 (NAD 1983 UTM zone 18N)

Source data:

NOAA tidal amplitude data:

<https://www.tidesandcurrents.noaa.gov/stations.html?type=Datums>

National Wetland Inventory (NWI), estuarine emergent wetland (E2EM) layer:

<https://www.fws.gov/wetlands/index.html>

National Agriculture Imagery Program (NAIP) 2014 and 2015 imagery:

<https://gdg.sc.egov.usda.gov/>

National Elevation Dataset:

<https://www.sciencebase.gov/catalog/item/4f70a58ce4b058caae3f8ddb>