Supplemental Map Information (User Report)

Project ID: New Hampshire Watersheds - Phase One

Project Title or Area: This project area describes the extent of the Contoocook, Merrimack River, Nashua, and Piscataqua-Salmon Falls Watersheds (HUC codes 01070003, 01070006, 01070004, and 01060003, respectively) contained within the state of New Hampshire. Watershed boundaries are defined by the National Hydrography Dataset's (NHD) 8-digit Hydrologic Unit Code (HUC8). The project area additionally includes a marine zone including all of New Hampshire's off-shore islands.

Photo-interpretation: Conservation Management Institute (Contractor)

Personnel: Kevin McGuckin, Dave Orndorff, Scott Klopfer, Daniel Cross, Ingrid Mans

Source Imagery (type, scale and date): 2014 NAIP True Color leaf-on 1-meter resolution. http://datagateway.nrcs.usda.gov/

Date Started: 1/1/2016
Date Completed: 4/18/2017
Number of 24k quads: 85 (38 full coverage, 47 partial coverage)

Collateral Data (include any digital data used as collateral): National Hydrography Dataset (NHD), SSURGO (Hydric Soils only), NRCS Digital Raster Graphic (DRG): http://datagateway.nrcs.usda.gov/

2015 Statewide High Resolution (1 ft.) Aerial Photography - True Color (RGB) http://granitweb.sr.unh.edu:6080/arcgis/services/ImageServices/NH_2015_1ft_RGB/ImageServer/WMSServer

2015 Statewide High Resolution (1 ft.) Aerial Photography - Color Infrared (CIR) http://granitweb.sr.unh.edu:6080/arcgis/services/ImageServices/NH_2015_1ft_CIR/ImageServer/WMSServer

2013 1-foot Orthophotography for Coastal New Hampshire (RGB) http://granitweb.sr.unh.edu:6080/arcgis/services/ImageServices/Coastal_2013_1ft_RGB/ImageServer/WMSServer

2013 1-foot Orthophotography for Coastal New Hampshire (CIR) http://granitweb.sr.unh.edu:6080/arcgis/services/ImageServices/Coastal_2013_1ft_CIR/ImageServer/WMSServer

2012 National Agriculture Imagery Program (NAIP) 1-meter Color Aerial Imagery for New Hampshire - RGB http://granitweb.sr.unh.edu:6080/arcgis/services/ImageServices/NH_NAIP_2012_RGB/ImageServer/WMSServer

2012 National Agriculture Imagery Program (NAIP) 1-meter Color Aerial Imagery for New Hampshire - CIR
http://granitweb.sr.unh.edu:6080/arcgis/services/ImageServices/NH_NAIP_2012_CIR/ImageServer/WMSServer

2010-11 Statewide High Resolution Aerial Photography - RGB
(Includes 2010 1-foot RGB southern and central NH, and 2011 1-foot RGB for northern NH.)
http://granitweb.sr.unh.edu:6080/arcgis/services/ImageServices/NH_2010_2011_1ft_RGB/ImageServer/WMSServer

2010-11 Statewide High Resolution Aerial Photography - CIR
(Includes 2010 1-foot RGB southern and central NH, and 2011 1-foot RGB for northern NH.)
http://granitweb.sr.unh.edu:6080/arcgis/services/ImageServices/NH_2010_2011_1ft_CIR/ImageServer/WMSServer

2010-11 Regional Very High Resolution Aerial Photography - RGB
(Includes 2010 6" RGB imagery, available for selected regions of NH.)
http://granitweb.sr.unh.edu:6080/arcgis/services/ImageServices/Regional_2010_6inch_RGB/ImageServer/WMSServer

2010-11 Regional Very High Resolution Aerial Photography - CIR
(Includes 2010 6" CIR imagery, available for selected regions of NH.)
http://granitweb.sr.unh.edu:6080/arcgis/services/ImageServices/Regional_2010_6inch_CIR/ImageServer/WMSServer

2006 1-Foot Color Aerial Photos for Lakes Region New Hampshire - RGB
http://granitweb.sr.unh.edu:6080/arcgis/services/ImageServices/Regional_2006_1ft_RGB/ImageServer/WMSServer

2006 1-Foot Color Aerial Photos for Lakes Region New Hampshire - CIR
http://granitweb.sr.unh.edu:6080/arcgis/services/ImageServices/Regional_2006_1ft_CIR/ImageServer/WMSServer

2005 1-Foot Color Aerial Photos for Southeast New Hampshire - RGB
http://granitweb.sr.unh.edu:6080/arcgis/services/ImageServices/Regional_2005_1ft_RGB/ImageServer/WMSServer

2005 1-Foot Color Aerial Photos for Southeast New Hampshire - CIR
http://granitweb.sr.unh.edu:6080/arcgis/services/ImageServices/Regional_2005_1ft_CIR/ImageServer/WMSServer

LiDAR - Coastal NH - 2011 - 2Meter DEM
http://granitweb.sr.unh.edu:6080/arcgis/services/ImageServices/Southeast_LiDAR_DEM/ImageServer/WMSServer

LiDAR - Regional
http://granitweb.sr.unh.edu:6080/arcgis/services/GRANITView/GRANITView_Elevation/MapServer/WMSServer

National Elevation Dataset - NH Extract - 2011- DEM
http://granitweb.sr.unh.edu:6080/arcgis/services/ImageServices/NH_NED_2011/ImageServer/WMSServer

Inventory Method (original mapping, map update, techniques used): The NWI update for portions of the Contoocook, Merrimack River, Nashua, and Piscataqua-Salmon Falls Watersheds within the state of New Hampshire was created with the 2014 NAIP leaf-on true color imagery. Polygons were created using heads-up digitization in a Geographic Information System (GIS). We used the following ancillary datasets to help further wetland interpretation: SSURGO hydric soils, NHD flow lines, DRG contours, DEM and LiDAR elevation data, color-infrared imagery, and true-color imagery. Special modifiers were added to describe disturbed and altered wetlands and deepwater habitats: ditching, impoundment, excavation, beaver activity, artificial water control.

Classification (Cowardin wetlands, riparian, uplands, hydrogeomorphic, etc.): We used the Cowardin *et al.* (1979) system for wetlands and deepwater habitats.

Data Limitations: None

General description of the Project Area: 221 Eastern Broadleaf Forest (Oceanic) Province. Appalachian Plateaus, New England lowlands, mid-Atlantic coastal plain, Piedmont Plateau, 104,500 mi^2 (270,700 km^2)**.**

Description of wetland habitats:

      Organize by Cowardin classification type:
      Wetland classification codes and corresponding community type(s):

References:

Cowardin, L.M., V. Carter, F.C. Goulet, and E.T. LaRoe. 1979. Classification of Wetlands and Deepwater Habitats of the United States. FWS/OBS-79/31. Office of Biological Services, Fish and Wildlife Service, US Department of the Interior, Washington D.C.

US Forest Service Website, Ecosystem Provinces - http://www.fs.fed.us/land/ecosysmgmt/colorimagemap/ecoreg1_provinces.html (viewed 4/18/2016)