

Appendix 2. Spatial data layers used for covariate extraction and information for harmonizing wetlands data layers.

Table A2.1, Spatial data layers used for covariate extraction.

Layer	Description	Data Year	Resolution (m)	Rights	Citations
Avian Point Count Dataset	BAM and BBS project data	2014	vector	Boreal Avian Modelling Project	Cumming et al. 2010, Barker et al. 2015
Common Attribute Schema for Forest Resource Inventory (CASFRI)	National extent of provincial forest resource inventories, standardized to a common schema	2008-2014	vector		Cosco 2011, Cumming et al. 2015
National Ecological Framework for Canada	Canada's ecological framework, including ecozones, ecoprovinces, ecoregions, and ecodistricts.	2013	vector	CGDI National Frameworks Data; Agriculture and Agri-Food Canada	Marshall et al. 1999
Human Footprint	Extent and relative intensity of human influence on terrestrial ecosystems via human settlement, access, landscape transformation, and infrastructure	2001-2006	90	Wildlife Conservation Society Canada; Conservation Biology Institute: Data Basin	Sanderson et al. 2002; Woolmer et al. 2008
Landscape Complexity	The variety of microclimates on the landscape as function of topography, elevation range, and moisture gradients	2001-2006	90	The Nature Conservancy - Eastern Conservation Region; Conservation Biology Institute: Data Basin	Anderson et al. 2012; Anderson & Clark 2012
Local Connectedness	Strength of structural connections between natural ecosystems on a local landscape, measured as outward permeability of ecological flows from one cell to its neighbours	2005	90	The Nature Conservancy - Eastern Conservation Region; Conservation Biology Institute: Data Basin	Anderson et al. 2012; Anderson & Clark 2012
National Parks	Boundaries of National Parks	2012	vector	Geomatics Canada; Natural Resources Canada	

Layer	Description	Data Year	Resolution (m)	Rights	Citations
Protected Areas – NB	Boundaries of Protected Natural Areas and Provincial Parks In New Brunswick.	2011-2014	vector	Department of Natural Resources/GeoNB	
Protected Areas – NS	Boundaries for National Parks, Provincial Parks, Provincial Wildlife Areas, and other protected areas in NS	2013	vector	Nova Scotia Parks and Protected Areas New Brunswick Government of Canada; Natural Resources Canada; Earth Sciences Sector; Canada Centre for Mapping and Earth Observation	
Roads	Normalized Canadian road network	2014			
Streams and Waterways - NB	New Brunswick Hydrographic Network, delineating surface drainage features for New Brunswick	2012-2014	vector	New Brunswick Department of Natural Resources/GeoNB	
Streams and Waterways – NS	Provincial hydrographic features at 1:10 000 scale	unk	vector	Nova Scotia Department of Natural Resources	
Wet Areas Mapping – NB	Map of depth to water table derived from digital elevation models, indicating likelihood of water saturation	2004-2005	10m	Forest Watershed Research Center, University of New Brunswick	Murphy et al. 2009
Wet Areas Mapping – NS	Map of depth to water table derived from digital elevation models, indicating likelihood of water saturation	unk	10m	Nova Scotia Department of Natural Resources	Murphy et al. 2009
Wetlands – NB	Wetlands identified from 1:10 000 aerial photography, including wetland type, vegetation, and photograph year	2003-2012	vector	NB Department of Environment and Local Government	Department of Natural Resources Fish and Wildlife Branch 2006
Wetlands – NS	Wetlands identified from 1:10 000 aerial photography, including wetland type, vegetation, and photograph year, adapted to the Canadian Wetland Classification system	2000-2002	30m (sharpened 15m)	Nova Scotia Department of Natural Resources	

Table A2.2, Wetland vegetation type equivalencies for New Brunswick and Nova Scotia using the Canadian Wetlands Classification Guide (National Wetlands Working Group 1997).

NB Veg Type	NS Veg Type Equivalent	Reclassification
Forested Hardwood Vegetation	Treed	Treed
Forested Softwood Vegetation	Treed	Treed
Alders	Low shrub/tall shrub	Shrub
Shrub Vegetation, except alders	Low shrub/tall shrub	Shrub
Emergent Vegetation	Graminoid	Graminoid
Open Water	Aquatic Vegetation	Aquatic
Open Water Un-vegetated	Water	Water/Exposed
Coastal/Shoreline Feature Vegetated	Salt Marsh	(excluded)
Coastal/Shoreline Feature	none	(excluded)
None	Exposed	Water/Exposed