

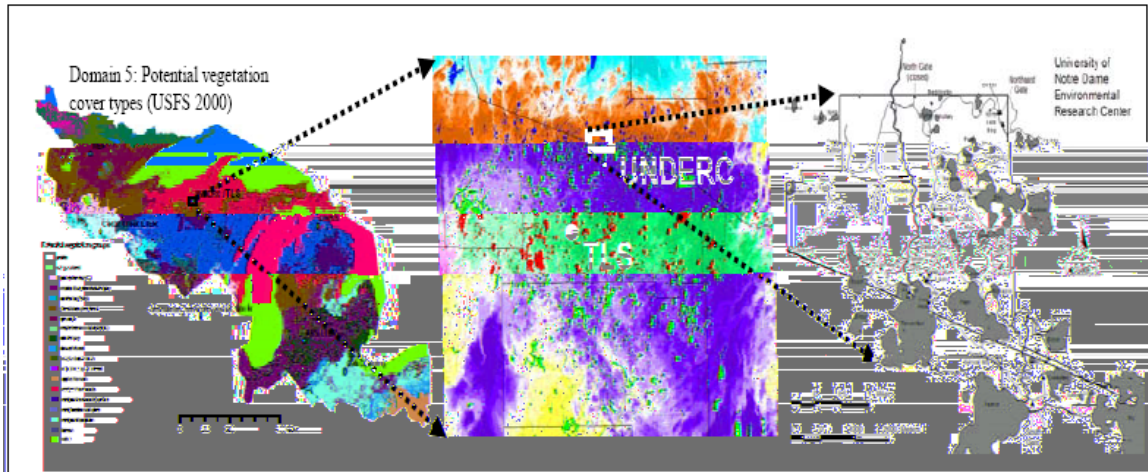
Notre Dame Environmental Research Center (UNDERC)/Trout Lake Station (TLS):

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Web Page: <http://underc.nd.edu>; <http://limnology.wisc.edu>

Location within Domain:



History: • UNDERC (3000 ha) and TLS (30 ha) respectively owned by U. of Notre Dame and U. of Wisconsin and within 35 km of each other. • UNDERC closed to public since 1914. • Research since 1924. • North Temperate Lakes LTER project since 1981 (<http://lter.limnology.wisc.edu>).

Key Characteristics: • Wild lands (mature forests - Northern hardwood, Great Lakes pine, Bog conifer, Spruce/fir; several stages of known age; meadows; aquatic areas - 30 lakes entirely-owned, streams, bogs, and wetlands), soil/landform, land use history, and climate are all characteristic of northern 3/4 of Domain 5. • Completely-owned watersheds. • Experimental manipulation permitted (e.g., radioisotopes, whole lakes). • Complete food webs with top predators (e.g., wolves, fisher, otter, muskellunge, etc.). • Lake Superior within 50 km. • Suitable for climate research (species and ecosystem range limits), land use (variety of human activities nearby) and invasive (sites with and without invasives, insect disease vectors) questions. • Agreements with state, federal and NGO agencies provide >700,000 ha and >6000 lakes.

Existing Infrastructure: • Long term plant, animal and ecosystem data online. • 1 FACE and 5 AmeriFlux sites nearby. • Artificial stream and lake facilities. • 6 sets of lake sensors. • 3 meteorological stations. • 2 communication towers. • Member of networks including LTER, GLEON (<http://gleon.org>), OBFS and AERC. • **Education/outreach:** K-12 (Schoolyard LTER, Conserve School); course for 24 fully-funded undergraduates with 1/3 specifically minorities; research for 45 undergrad (many as REUs) and 25 grad students/yr; GAANN and IGERT graduate training programs; researchers from >30 institutions/yr.

Facilities: • Modern apartment-style housing for 168, conference facility, laboratories (26,205 ft²) and support (classrooms, libraries, herbaria, faunal collections, work shop, storage, etc.). • Staff of 12 FTE onsite. • T1 and DSL high speed internet available via wire and wireless access. • Extensive laboratory equipment, emergency power, vehicles and boats available. • Major commercial airline flights (~6/day, Minneapolis, MN - Rhinelander, WI) within 60-90 km and year-round access via road. • UNDERC, which is closed to the public, has >50 km of private roads.