

Daring Lake Tundra Ecosystem Research Station

The Daring Lake Tundra Ecosystem Research Station (TERS) was established in 1994 as a multi-purpose facility to facilitate long-term research and monitoring of the tundra ecosystem. It also support the conservation education program Tundra Science Camp, which has been in operation since 1995. The station is located in the Southern Arctic Ecozone 50 km north of treeline. The research station is a model facility using solar and wind power. It also uses the latest techniques in waste management and bear deterrence. TERS operates as a cooperative with many partner organizations.



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Owner

[Government of the Northwest Territories, Department of Environment and Natural Resources](#)

Membership

Regular Member

Website

www.enr.gov.nt.ca/programs/tundra-ecosystem-research-station/facility

Latitude

64.52

Longitude

-111.35

Location

Daring Lake

Nearest Community

Wekweeti

Territory/ Province

Northwest Territories

Aboriginal Government/ Homeland

www.tlicho.ca

Facility Type

Seasonally-Operated Research Station

Research Hinterland

Continuous Permafrost, Lake, Lichen, Tundra, Wetland

Main Research Disciplines

Archaeology, Environmental Sciences, Geology and Sedimentology, Hydrology, Mapping/GIS, Soil Science, Terrestrial Biology/Ecology, Traditional/Aboriginal Knowledge

Current Projects

Controls on carbon, nitrogen and phosphorus dynamics in low arctic tundra ecosystems (Queen's); Shrub-snow interactions and the influence of winter processes on the expansion of shrub cover in the Arctic, and the consequences of such vegetation change for biogeochemical cycling of C and N (Queen's); Effects of climate change on plant communities, soil biogeochemical cycling, and caribou-vegetation interactions in low arctic tundra (Queen's).

Power

Generator, Solar, Wind

Communications

Telephone, Satellite phone, VHF, Internet, Printer/Scanner

Local Transportation

Access from Yellowknife is by charter aircraft _ ski equipped aircraft in the winter and float planes in the summer. GNWT can arrange charters to TERS. Two aluminum boats and motors, four snowmobiles and sleds at the camp. Local transportation is available upon request.

Equipment Storage

Limited on-site storage

Dormitory/Sleeping Facilities

Bunkhouses for up to 20 people. Small tents in the summer allow increased capacity to 30

Dining/Kitchen Facilities

Full kitchen facilities- propane stove, fridge, high efficiency electric fridge and freezer; seating for 24; cooking and cleaning up is shared among users

Laboratory Facilities

Dry laboratory with various sampling and equipment including a drying oven and dissecting microscopes. Herbarium and lichen collection is available on site

Fuel Availability

Project proponents supply their own fuel for helicopter or fixed-wing aircraft. GNWT can arrange fuel caching at TERS. Contact the Station Manager. GNWT maintains a fuel cache of Jet-B, Av-Gas, unleaded gas and heating oil for the research station and ENR projects.

Research Requirements

All researchers need a Scientific Research License through the Aurora Research Institute. Additional permits may be required depending on the nature of the research. www.accessnwt.ca/licensing/research-regulators

Special Rules and Regulations

All users must contact the Station Manager for reservations and charters to the camp

Local External Resources

GNWT maintains an automated weather station at the site. GNWT has produced several vegetation classifications for the area. Weather data, vegetation classifications and other monitoring data are available to researchers.

Nearest Medical Service

Health Centre at Ekati Mine (50 km)

Safety Considerations

TERS is a remote field station in the wilderness. Safety is paramount as medical response times can be significant. All users are required to have the following training: Bear safety and Wilderness first aid

Cost

Daily rates are currently under review

Other Information

N/A

Last Updated

2015-05-30