

Category	Sub-Category	Barrow Arctic Research Center/ Barrow Environmental Observatory
Website		www.polarfield.com/barrow
Country		USA
Opening year		1992
Operational period		Year-round
Permitting issues categories	Permits required for access to the station Permits required for studies Contact (permit issues)	– Yes karl.newyear@uicumiaq.com
Facility owner and manager	Name of the facility owner Owner status Institution responsible for managing the station Contact (access to station) Website (institution)	Ukpeagvik Inupiat Corporation Private UMIAQ marvin.hanson@uicumiaq.com www.ukpik.com
Other institutions	Name Country	– –
Location	Geographical coordinates Altitude of station Min. altitude within study area Max. altitude within study area Nearest town/settlement Distance to nearest town/settlement Map	71°18' N, 156°35' W 5 m a.s.l. 0 m a.s.l. 10 m a.s.l. Barrow (4000 inhabitants) 5 km –
Climate	Climate zone	High Arctic (maritime, desert)
	Permafrost	Continuous
	Years measured	–
	Mean annual temperature	-12.6 °C
	Mean temperature in February	-27.7 °C
	Mean temperature in July	4.1 °C
	Mean annual wind speed	6 m/s
	Max. wind speed	35 m/s
	Dominant wind direction	E
	Total annual precipitation	115 mm
	Precipitation type	Rain, snow
	Ice break up	Lakes: May; Sea ice: June
Station facilities	Area under roof	850 m ² residential; 1200 m ² staging/storage; 300 m ² labs; 150 m ² office/meeting rooms; 100 m ² field huts
	Scientific laboratories	300 m ²
	Logistic	1200 m ² staging/storage; 150 m ² office/meeting rooms
	Number of rooms (beds)	42 rooms in total: 9 huts (1-4 bedrooms each, living space, kitchen, bathroom); 2 apartments (bedrooms, kitchen, living space, bathroom); 3 meeting rooms; 5 laboratories; 3 warehouses/staging space; 2 cold rooms (lab or storage space)
	Number of staff on station (peak/off season)	8/5
	Max. number of visitors at a time	42
	Showers	Yes
	Laundry facilities	Yes
	Power supply (type)	120V 60Hz US two/three-pin plug
	Power supply	24 hours per day
Scientific equipment	Specific device	Differential GPS, fume hoods, cold storage and work space, type I water
	Scientific services offered	Assistance obtaining permits, community outreach, cargo pickup/storage
Medical facilities	Medical facilities	Well equipped
	Medical suite	Yes
	No. of staff with basic medical training or doctor	Samuel Simmonds Memorial Hospital http://www.arcticslope.org/
	Distance to hospital (estimated time)	5 km (10 minutes)
	Compulsory safety equipment Recommended safety equipment	– Weapons, first aid kit, VHF radio
Landing facilities	Airstrip (Length × Width)	2164 × 46 m
	Airstrip surface	Tarmac
	Helipad	Yes
	Ship landing facilities	Barge landings available
Vehicles at station	Sea transportation	Small craft (8 meters), inflatable boats
	Land transportation	Truck, snowmobiles, ATV
Transport and freight	Transport to station	Airplane, cargo barge (Alaska Airlines www.alaskaair.com Northern Air Cargo www.nacargo.com)
	Number of ship visits per year (period)	1 (August)
	Number of flight visits per year (period)	1000 (year-round)





Features within study area	<input checked="" type="radio"/> Yes <input type="radio"/> No
<input type="radio"/> Ice cap or glacier	
<input type="radio"/> Permanent snowpatches	
<input type="radio"/> Mountain	
<input type="radio"/> Valley	
<input checked="" type="radio"/> Shoreline	
<input checked="" type="radio"/> Tundra	
<input type="radio"/> Tree line	
<input checked="" type="radio"/> Other (Sea ice, rivers, wetlands)	
Main science disciplines	
<input checked="" type="radio"/> Anthropology, Sociology, Archaeology	
<input type="radio"/> Astrophysics	
<input checked="" type="radio"/> Atmospheric chemistry and physics	
<input type="radio"/> Isotopic chemistry	
<input checked="" type="radio"/> Climatology, Climate Change	
<input checked="" type="radio"/> Environmental sciences, Pollution	
<input checked="" type="radio"/> Geodesy	
<input type="radio"/> Geology, Sedimentology	
<input type="radio"/> Geophysics	
<input type="radio"/> Glaciology	
<input checked="" type="radio"/> Geocryology, Geomorphology	
<input checked="" type="radio"/> Soil science	
<input type="radio"/> Human biology, Medicine	
<input checked="" type="radio"/> Mapping, GIS	
<input checked="" type="radio"/> Marine biology	
<input checked="" type="radio"/> Oceanography, Fishery	
<input checked="" type="radio"/> Microbiology	
<input checked="" type="radio"/> Hydrology	
<input checked="" type="radio"/> Terrestrial biology, Ecology	
<input checked="" type="radio"/> Paleolimnology	
<input checked="" type="radio"/> Paleoecology	
<input checked="" type="radio"/> Limnology	
Workshop facilities	
<input checked="" type="radio"/> Metal workshop	
<input checked="" type="radio"/> Wood workshop	
<input checked="" type="radio"/> Plexiglas workshop	
<input checked="" type="radio"/> Staff available to assist with constructions	
Communication	
<input checked="" type="radio"/> Telephone	
<input type="radio"/> Satellite phone	
<input checked="" type="radio"/> VHF	
<input checked="" type="radio"/> E-mail	
<input checked="" type="radio"/> Internet	
<input type="radio"/> Computer	
<input checked="" type="radio"/> Printer	
<input checked="" type="radio"/> Scanner	
<input checked="" type="radio"/> Fax	