

65°14′74.5″S 64°15′44.9″W

Type: Station

Operational period: Year-round

Location

Vernadsky station is located at Marina Point Galindez Island, Argentine Islands Archipelago, Kiev Peninsula, Antarctic Peninsula. The Antarctic Specially Protected Area (ASPA) 108 "Green Island, Berthelot Islands, Antarctic Peninsula" is situated 9 km to the South from Vernadsky. CEP Visitor Site Guidelines for nearest islands: Winter I., Petermann I., Pleneau I., Booth I., Yalour I. The station is located in the vicinity to relict Galindez Island Ice Cap (Woosle Hill), 51 m height.

Biodiversity and natural environment

Fauna: The following species are regularly sighted on the Island: Adélie penguins (Pygoscelis adeliae), Gentoo penguins (Pygoscelis papua), Blue-eyed shags (Phalacrocorax atriceps), Wilson's storm-petrels (Oceanites oceanicus), South polar skuas (Catharacta maccormicki), Kelp gulls (Larus dominicanus) Weddell seals (Leptonychotes weddellii). Flora: Rhizocarpon sp. and Usnea Antarctica lichens are present on the island. The moss Polytrichum strictum is also found.

| CLIMATE | | |
|----------------------------------------------------------------------------------|---------------------|--|
| Climate zone | Maritime Antarctica | |
| Permafrost | Continuous | |
| Mean annual wind speed (km/h) | 15.4 | |
| Max wind speed (km/h) | 144 | |
| Dominant wind direction | N | |
| Sea Ice Break Up | December | |
| Snow free period | February, March | |
| Total annual precipitation (mm) | 530 | |
| Precipitation type | Snow and Rain | |
| Mean annual temperature (°C) | 3.8 | |
| Mean temperature in February (°C) | 0.6 | |
| Mean temperature in July (°C) | -8.7 | |
| ENVIRONMENT | | |
| Region | Antarctic Peninsula | |
| Antarctic Environmental Domain: G – Antarctic Peninsula offshore island geologic | | |
| Antarctic Conservation Biogeographic Region: 3 North-west Antarctic Peninsula | | |
| Altitude of facility (m) | 7 | |
| Type of surface facility built on | Ice-free ground | |
| Long term monitoring | Yes | |
| Waste management | Yes | |
| Hazard(ous) management | Yes | |
| Fuel spill response capability | Yes | |





UKRAINE

| FACILITIES INFRASTRUCTURE | | |
|-------------------------------------------------------------------------------------------------------------|-------------|--|
| | 1150 | |
| Area under roof (m ²) | 1150 | |
| Area scientific laboratories (m²) | 180 | |
| Type of scientific laboratories: Balloon shed, Biology, Fluxgate, Geophysics, Scientific diving, Variometer | | |
| Conference room (capacity) | | |
| Logistic area (m²) | 385 | |
| Number of beds | 24 | |
| Showers | Yes | |
| Laundry facilities | Yes | |
| Power supply type | Fossil fuel | |
| Power supply (V) | 220 | |
| Power supply (hours per day) | 24 | |
| Hydroponics facilities | No | |
| Number of staff on station (peak/summer season) | 10 | |
| Number of scientists on station (peak/summer season) | 20 | |
| Number of staff on station (off peak/winter season) | 5 | |
| Number of scientists on station (off peak/winter season) | 7 | |
| Max number of personnel at a time (staff, scientists and others) | 24 | |
| Specific device/Scientific equipment: Meteorological equipment and | | |

recording devices (mobile meteorological complex), marine and hydrometeorological equipment (mechanical and automatic mareographs, oximeter, bathometer, bottom sampler, manual coring winch), biological

Scientific services possible: Meteorological parameters, sea level measuration, sea water saltiness, oxygen content in sea water, deep water sampling and temperature measuring, bottom deposits sampling, measuring of absolute values of magnetic field and baselines values. Long-term monitoring/observations: Meteorology, oceanography, geomagnetic monitoring, lonosphere radiosounding, total ozone measurement in the atmosphere

History and facilities

In 1995 the British Faraday station was transferred to Ukraine under the Memorandum of Understanding between the British Antarctic Survey and the State Institution National Antarctic Scientific Center of Ukraine (July 20, 1995). February 6, 1996 the Ukrainian State Flag was raised and the station was renamed to Vernadsky.

General research and databases

Monitoring of environmental parameters in the Antarctic region, at all levels of geosphere - from tectonosphere to geospace - and their transfer to the national and international centers of scientific data (WMO, INTERMAGNET, MAGATE, BAS), including: research of the Earth magnetic field, radio sounding of the ionosphere in the Southern Polar region, hydrometeorological research, geophysical research of the Earth lithosphere, research of the West Antarctic biosphere, medical and physiological research.

| MEDICAL FACILITIES | Vaa |
|------------------------------------------------------------------------|------------|
| MEDICAL FACILITIES Area of medical facility (m²) | Yes 26 |
| , , , | |
| Staff with basic medical training or doctor (Summer) | 1 |
| Staff with basic medical training or doctor (Winter) | 1 |
| Capability: Basic, Dental, Surgery | |
| Equipment: Anaesthesia, Biochemistry, Blood transfusion | |
| medicine, Diagnostic X-ray, Haematology, Laboratory dia | |
| Electrocardiograph, Electroencephalograph, Reflotron (b laboratory) | nochemicai |
| Distance to hospital (km) | |
| Closest emergency facility in Antarctica (km) | 53.5 |
| Closest emergency facility external (km) | 00.0 |
| Medical research capabilities | Yes |
| Medical screening requirements | Yes |
| VEHICLES AT FACILITY | 103 |
| Sea transportation: Three plastic boats and six inflatable | hoats |
| Land transportation: Skidoos | Doais |
| WORKSHOP FACILITIES | |
| ICTS, Metal workshop, Wood workshop | |
| COMMUNICATIONS | |
| E-mail, Satellite phone, VHF | |
| TRANSPORT AND FREIGHT | |
| Access | Sea |
| Transport to facility: Ship | |
| Number of airstrips | 0 |
| Length (m) of longest runway | |
| Width (m) of longest runway | |
| Number of flight visits per year | 0 |
| Period of flight visits per year: | |
| Helipad | No |
| Number of ship visits per year | 40 |
| Period of ship visits per year: January, February, March, [| |
| Ship landing facilities: Pier/Jetty | |
| | |

Features in the facility area

Bird colonies, Coast, Crevasse, Ice cap or glacier, Moraine, Other Biological, Sea, Sea ice, Seal colonies, Shoreline, Snow.

Main science disciplines

Climatology, Geology, Geophysics, GIS, Marine biology, Medicine, Microbiology, Oceanography, Terrestrial biology.

