



МІНІСТЕРСТВО  
ОСВІТИ І НАУКИ  
УКРАЇНИ

**Welcome! Щиро запрошуємо!**

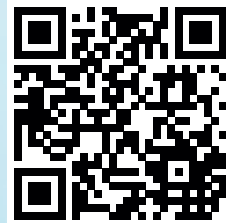


**Ukraine invites  
for closer Antarctic cooperation**

**National Antarctic Scientific Center of Ukraine**

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## Our advantages:

Fully equipped **year-round station «Academic Vernadsky»** (former British “Faraday” base) easy reachable on Galindez Island (maritime Antarctic)

The station has a **convenient location** for field studies of all components of the Antarctic environment, such as the ocean, atmosphere, geosphere, biosphere and glaciers.

**More than 70 years of meteorological observations** of climate changes and changes in ozone layer, long data set in terrestrial vegetation and seabirds dynamics observations

Location at the region with **clearly visible regional processes in the atmosphere** due to impact of ocean and landscape (the strongest trend of global warming in Antarctica, a complex of mesoscale weather phenomena)

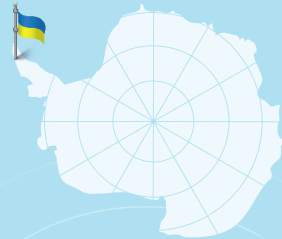
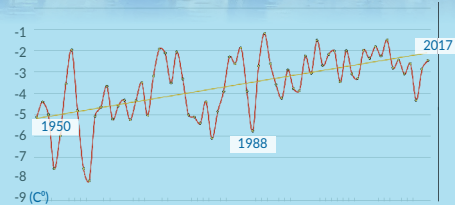
**Ice free Ocean for more than half a year** facilitates oceanographic work, including underwater research (for which modern equipment is available)

Presence of monitoring polygons (CEMP sites) on large colonies of **Gentoo penguins** (at the southern margin of its spread) and **Adelie penguins, Weddell seals reproductive sites, terrestrial vegetation and soils** patches in central part of maritime Antarctic, marine study polygons

Unique equipment to **geomagnetic and radioastronomic measurements** and study of upper layers of atmosphere

Unique equipment for **seismic measurements** and study of **local tectonic activities and glacier breakup**

**Unique glaciers' and moss banks** – sources for data for paleoclimate reconstructions



## Possible directions for cooperation:



Joint project in physics of atmosphere and ocean, glaciology, paleoclimatology, geology;



Joint development and application of innovative monitoring methods such as environmental DNA and other metabarcoding methods for Antarctic ecosystems;



Joint marine researches, including marine mammals migrations and underwater life;



Parallel comparative researches of reaction of terrestrial ecosystems inside of Antarctic and in Arctic at climate change using uniform methodologies;



Complex study of terrestrial ecosystems: indicator vascular plants communities (*Deschampsia antarctica*), shifts in general biodiversity of bryophytes, lichens and fungi, relations between different organisms (especially with microbiome) in climate changes condition and human impact for in different regions of Antarctica;



Joint microbiological researches of microbiome of polar ecosystems in different regions of Antarctic and Arctic aimed at study of biogeochemical cycles, genomics and transcriptomics of extremophiles.

## We are ready:



To welcome foreign scientists at our station for joint research programs;



To share our experience at your stations;



To participate on joint projects on know-how transfers, joint development and calibrations of the research methods;



To place partner equipment for joint research projects at our station and ensure its year-round proper maintenance.