The propagation of the AGW of tropospheric origin upwards to the ionosphere/magnetosphere using a network of automatic meteo-magnetic stations in the Antarctic Peninsula region.

The Project is based on the data of energy transport from the surface to the upper ionosphere by atmospheric gravity waves (AGW). A network of observation sites spaced by 50-100 km will be created on and close to the Antarctic Peninsula to study the processes of energy transfer from atmospheric fronts to geospace altitudes. Low power-consuming, automatic meteo-magnetic stations have been developed with total power consumption 2.5 mW. To organize the project Ukraine seeks logistical support from other countries to distribute the net. The Project could be fulfilled in the framework of the ICESTAR Programme.

Contact:

Dr Valery Lytvynov
Chairman of the Ukraine IPY Initiative Group
Director Ukrainian Antarctic Center
16 blvd Tarasa Shevchenka, 01601 Kyiv, Ukraine
Tel +38 044 246 3810, Fax +38 044 246 3880
uac@uac.gov.ua

Dr Gennadi Milinevsky
Action secretary of the Ukraine IPY Initiative Group
Deputy Director of Science Ukrainian Antarctic Center
16 blvd Tarasa Shevchenka, 01601 Kyiv, Ukraine
Tel +38 044 246 3883, Fax +38 044 246 3880
science@uac.gov.ua