

International Conference
"Astronomy and Space Physics in the Kyiv University"
May 26 – 28, 2026

Section Program

Atmosphere and Ionosphere Research
May 27, Wednesday, 2026

Zoom link:

<https://us04web.zoom.us/j/2698108579?pwd=RIAYb1p6SWRIWXhJYVd3SDQzYlYk1QT09>

Meeting ID: 269 810 8579

Passcode: 8N1Wfs

May 27, 2026, Wednesday, 9:00 - 13:00 Kyiv Time, UT+3h

Chairs: Danylevsky Vassyl, Grytsai Asen, Milinevsky Gennadi

Time	Presenter and co-authors. Title
9:00– 9:20	L.F. Chernogor, <u>Y.H. Zhdanko</u> . <i>Features of the May 10–11, 2024 geospace storm over the East Asian region</i>
9:20– 9:40	<u>K.P. Garmash</u> , L.F. Chernogor, Y.H. Zhdanko. <i>Angular remote sensing of the ionospheric disturbances</i>
9:40– 10:00	<u>I. G. Zakharov</u> , L. F. Chernogor <i>Development of atmospheric disturbance in a 27-day solar activity cycle</i>
10:00– 10:20	L.F. Chernogor, M.Yu. Tkachenko, <u>A.V. Zienin</u> <i>Analysis of major geospace storms during the 25th solar activity cycle</i>
10:20– 10:40	L.Ya. Emelyanov, <u>A.E. Miroshnikov</u> , V.P. Burmaka <i>Investigation of the dependence of the midday F2 peak electron density on solar activity under geomagnetically quiet conditions based on the ionosonde observations of ionosphere over Kharkiv (Ukraine)</i>
10:40– 11:00	Coffee break
11:00– 11:20	L. F. Chernogor, <u>D. R. Kulyk</u> <i>Electromagnetic effects during the intense Geospace Storm of September 11–21, 2024</i>
11:20– 11:40	L. F. Chernogor, <u>O. V. Lazorenko</u> , A. A. Onishchenko <i>Peculiarities of Fractal Analysis Performed for Investigations of the Infrasonic Wideband Signal Generated by the Drake Passage Earthquake of May 2, 2025</i>
11:40– 12:00	<u>V. O. Bessarabova</u> , L. F. Chernogor <i>Global Effects of the October 2024 Ionospheric Storm</i>
12:00– 12:20	L.F. Chernogor, Yu.B. Mylovanov, <u>T.K. Hrabko</u> <i>Global features of the ionospheric storm of May 10–11, 2024</i>
12:20– 12:40	L.F. Chernogor, M.Yu. Holub, <u>D.R. Novytska</u> <i>Severe geomagnetic storm in August 2024</i>
12:40– 13:00	L.F. Chernogor, <u>M.Yu. Tkachenko</u> <i>Identifications of November 4-5, 2023, Geospace Storm Interplanetary Drivers</i>
13:00– 14:00	Lunch

May 27, 2026, Wednesday, 14:00 - 18:20 Kyiv Time, UT+3h
Chairs: Danylevsky Vassyl, Grytsai Asen, Milinevsky Gennadi

Time	Presenter and co-authors. Title
14:00– 14:20	V.M. Ivchenko , G.P. Milinevsky <i>Optical observations in controlled experiments in near-Earth space</i>
14:20– 14:40	M. Savenets <i>Challenges and prospects for assessing war impacts on air quality: experience from four years of research (2022–2026)</i>
14:40– 15:00	B.A. Petrenko , L.V. Kozak, N.O. Khalimonenko <i>Physics-Informed Neural Networks: Reconstruction of Magnetic Reconnection with MMS data</i>
15:00– 15:20	X.Gao , G. P. Milinevsky, Y. Yukhymchuk <i>Evaluation of GEOS-Chem simulations of atmospheric pollutants in Northeast China (2015–2018) using multi-source observations</i>
15:20– 15:40	O. Bilous , A. Grytsai <i>Latitudinal distribution and climate classification of precipitable water vapor based on AERONET data</i>
15:40– 16:00	Coffee break
16:00– 16:20	D. Zazubyk , A. Grytsai, G. Milinevsky <i>Circulation parameter for analysis of the vortex strength</i>
16:20– 16:40	A. V. Grytsai , V.O. Danylevsky, D. Zazubyk, G.P. Milinevsky <i>Dobson spectrophotometer observations at Kyiv-Goloseyev station and their processing</i>
16:40– 17:00	L.F. Chernogor, Y. Luo , M.Yu. Holub, V.T. Rozumenko <i>Global-scale features of the multi-step geomagnetic storm of November 4–7, 2023</i>
17:00– 17:20	D. Zazubyk , A.V. Grytsai, G.P. Milinevsky, P. Chen <i>Using the circulation parameter for analysis of the stratospheric warming events in the Southern and Northern hemispheres</i>
17:20– 17:40	L.F. Chernogor, O.I. Liashchuk, O.V. Rudycheva , M.B. Shevelev <i>Acoustic effect of a powerful submarine earthquake</i>
17:40 – 18:00	L.F. Chernogor, A.M. Tsymbal , Y.H. Zhdanko <i>The impact of geomagnetic storms on global electron content</i>
18:00 – 18:20	Discussion

Presentation: 15 min talk, 5 min questions.