

VIRAC Workshop on Solar Activity and Its Impact on Space Weather and the Earth's Magnetosphere within the LOFAR ERIC Initiative

26 February 2026, Ventspils and online

12:00 - 12:10

Welcome Address & Introduction

12:10 - 12:30

V. Bezrukovs - *Engineering Research Institute "Ventspils International Radio Astronomy Centre" of Ventspils University of Applied Sciences, Latvia*

IONEX project updates, activities and tasks

12:30 - 12:50

J. Šteinbergs - *Engineering Research Institute "Ventspils International Radio Astronomy Centre" of Ventspils University of Applied Sciences, Latvia*

L Band ionospheric study - results from GNSS and theoretical possibilities for RT32 observations

12:50 - 13:10

M.I. Orliuk - *Institute of Geophysics of the National Academy of Sciences of Ukraine, Ukraine*

Geomagnetic observations in the vicinity of the "Struve Geodetic Arc" during strong magnetic storms: initial data and their preliminary interpretation

13:10 - 13:30

A.L. Sukharev - *Institute of Radio Astronomy of the National Academy of Sciences of Ukraine, Ukraine*

Automated processing of geomagnetic data from the INTERMAGNET international network and the first observational results of the solar eclipse on February 17, 2026.



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13:30 - 13:50

M.I.Ryabov - *Institute of Radio Astronomy of the National Academy of Sciences of Ukraine, Ukraine*

Effects of Space Weather Manifestations as a Result of Solar and Geomagnetic Activity, Solar and Lunar Eclipses and Tidal Phenomena in the Ionosphere – research databases

13:50 - 14:10

D.A.Zabora - *Odesa Mechnikov National University, Ukraine*

A Python Toolkit and Pipeline for URAN-4 Archival Records: From Digitization to Wavelet Analysis of Radio Sources Scintillation Dynamics During Magnetic Storms in Solar Cycle 22.

14:10 - 14:30

Organizational issues and discussion about upcoming conference participation

14:30 - 15:00

Discussion of the organization of an expedition to conduct complex magnetometric and radiophysical observations during upcoming solar eclipses August 12, 2026, August 2, 2027

