

**Observatory Days 2026**  
Sodankylä Geophysical Observatory

**Abstracts**

**EISCAT\_3D – New Capabilities in the European Arctic**

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EISCAT is currently building EISCAT\_3D, the World's most advanced 3-dimensional imaging radar for atmospheric, ionospheric and near-Earth space investigations. EISCAT\_3D will be capable of tracking satellites as well as observe meteors and asteroids.

The fully steerable, tri-static, phased-array incoherent scatter radar is located in Skibotn (Norway), Karesuvanto (Finland), and Kaiseniemi (Sweden). It is foreseen that EISCAT\_3D will be able to make first science observation with a subsystem of the Skibotn radar (NO-7) with 637 kW. Thereafter, EISCAT\_3D will gradually expand to fully tri-static operations.

EISCAT\_3D is a European Strategy Forum for Research Infrastructures (ESFRI) Landmark in the Environment domain.

Here we will give an overview of the current status of EISCAT and EISCAT\_3D and it's future use for ionospheric as well as space object/space debris work.

