

# LOFAR<sup>4SW</sup>

**LOFAR for Space Weather** (LOFAR4SW) is an EC-funded Horizon2020 Design Study, led by ASTRON, to design an upgrade to LOFAR, Europe's largest and most flexible radio telescope. The project will deliver the full conceptual and technical design for creating a new leading-edge European research facility to enable space weather monitoring observations to be run completely in parallel with radio astronomy.

A fully-implemented LOFAR4SW system will enable a wide range of solar and space weather research topics to be tackled. Its unique strengths will benefit in several high-impact science areas which were grouped in four categories:

**Solar(S)**  
**Planetary(P)**  
**Heliospheric(H)**  
**Ionospheric(I)**



The LOFAR4SW consortium has assembled a powerful combination of partners with clear, focused work packages that engage solar and space science experts.

Stichting ASTRON, Netherlands Institute for Radio Astronomy, Nederland  
Universität Bielefeld, Germany  
Centrum Badan Kosmicznych Polskiej Akademii Nauk, Poland  
Stichting International LOFAR Telescope, Nederland  
Observatoire de Paris, France  
Chalmers Tekniska Hoegskola AB, Sweden  
Science and Technology Facilities Council, United Kingdom  
The Provost, Fellows, Foundation Scholars & the other members of Board of the College of the Holy & Undivided Trinity of Queen Elizabeth near Dublin, Ireland

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Website -> [lofar4sw.eu](https://lofar4sw.eu)



# LOFAR<sub>45W</sub>

