Geophysical Research Abstracts
Vol. 15, EGU2013-7438, 2013
EGU General Assembly 2013

SURO-LC and LOFAR, observing the space environment

Willem A. Baan and Richard Fallows
ASTRON, Institute for Radio Astronomy, The Netherlands (baan@astron.nl, fallows@astron.nl)

SURO-LC is a proposed low-cost space-based omni-directional radio interferometry system consisting of nine satellites designed to operate in the range 0.5 - 60 MHz. Its science case includes heliophysics and space weather, planetary radio observations and exoplanets, Galactic and extragalactic radio astronomy, and cosmology of the Dark Ages. In this paper we will present the science potential of SURO-LC for space weather and solar, planetary and heliospheric radio observations. LOFAR is an international ground-based observatory currently consisting of 45 stations operating in the (10 -)30 - 90 MHz and 110 - 250 MHz ranges. In this paper we will present early results of solar and heliospheric observations and its scientific potential.