



Contribution ID: 480

Type: Poster

The Solar Activity Monitor Network - SAMNet

Wednesday, 8 September 2021 15:05 (13 minutes)

The Solar Activity Magnetic Monitor (SAMM) Network (SAMNet) is an international consortium of ground-based solar telescope stations. SAMNet, at its full capacity, will continuously monitor the intensity, magnetic and Doppler velocity fields at multiple heights in the solar atmosphere from the photosphere to the upper chromosphere. SAMM sentinels are equipped with a cluster of identical telescopes each with different magneto-optical filter (MOFs) to take observations in K-I, Na-D and Ca-I spectral bands. A subset of SAMM stations will also have white-light coronagraphs and emission line coronal spectro-polarimeters. The objectives of SAMNet are to provide data for space weather research and forecast. The goal is to achieve an operationally sufficient lead time of e.g. flare warning of 2-8 hours, and provide much sought-after continuous synoptic maps (e.g., LoS magnetic and velocity fields, intensity) of the lower solar atmosphere with spatial resolution limited only by seeing or diffraction limit, and with a cadence of 10-min. The individual SAMM sentinels link into their master HQ hub where data received from all the slave stations are processed and flare warning is issued up to 26 hrs in advance.

Student poster?

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Session Classification: Poster Session 7.6

Track Classification: Session 5 - Solar-Terrestrial Relations, Solar Wind, Space Weather and Space Climate