

A NEW SPACE WEATHER SERVICE IN BULGARIA: THE MULTI-ENERGY PROTON EVENT CATALOG

ROSITSA MITEVA, MOMCHIL DECHEV

*Institute of Astronomy and National Astronomical Observatory – Bulgarian
Academy of Sciences*

72 Tsarigradsko Chaussee Blvd., 1784 Sofia, Bulgaria

E-mail: rmiteva@astro.bas.bg

We present the results from a recently completed study on the identification, analysis and solar origin association of solar energetic protons over nearly two solar cycles (1996-2017). Data with the highest temporal resolution of 1 minute is used from SOHO/ERNE instrument over 10 channels covering the energy range from 14 to 131 MeV. Statistical correlations with solar flares and coronal mass ejections are performed and compared to earlier results.

A dedicated web-site to host the proton catalog is available at <https://catalogs.astro.bas.bg/> and the results (times, amplitudes, quick-look plots) will be provided freely to the scientific community. This new service is hosted and will be supported in the future by the Institute of Astronomy and National Astronomical Observatory – Bulgarian Academy of Sciences.

