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Space Plasmas in the Solar System, including Planetary Magnetospheres (D)
Acceleration and Transport of Energetic Particles in the Heliosphere and beyond: from Pickup
Ions to Cosmic Rays (D1.3)

THE 2015 - PRESENT RISE OF THE GCR AS OBSERVED BY RAD ON MARS

Robert Wimmer-Schweingruber, wimmer@physik.uni-kiel.de
Christian-Albrechts-Universität zu Kiel, Kiel, Germany
Jingnan Guo, guo@physik.uni-kiel.de
University of Kiel, Kiel, Germany
Donald M. Hassler, hassler@boulder.swri.edu
Southwest Research Institute, Boulder, Colorado, United States
Thomas Berger, thomas.berger@dlr.de
German Aerospace Center (DLR), Cologne, Germany
Cary Zeitlin, cary.j.zeitlin@nasa.gov
Lockhead Martin Information Systems & Global Solutions, Houston, Texas, United States
Bent Ehresmann, ehresmann@boulder.swri.edu
Southwest Research Institute, Boulder, Colorado, United States
Soenke Burmeister, burmeister@physik.uni-kiel.de
Christian-Albrechts-Universität zu Kiel, Kiel, Germany
Henning Lohf, lohf@physik.uni-kiel.de
Christian-Albrechts-Universität zu Kiel, Kiel, Germany
Daniel Matthiä, daniel.matthiae@dlr.de
DLR - Inst. of Aerospace Medicine, Köln, Germany
Guenther Reitz, guenther.reitz@dlr.de
German Aerospace Center (DLR), Koeln, Germany
Johan Lauritz Freiherr Von Forstner, forstner@physik.uni-kiel.de
Kiel University, Kiel, Germany
Salman Khaksari, khaksari@physik.uni-kiel.de
University of Kiel, Kiel, Germany
Niklas Thorben Lundt, lundt@physik.uni-kiel.de
University of Kiel, Kiel, Germany

The radiation exposure due to galactic cosmic rays has been rising since early 2015 and is reaching some of the highest levels observed in the space age. This observation is not limited to the near-Earth space environment, but is also seen at Mars in measurements performed by the highly capable Radiation Assessment Detector (RAD) on NASA's Curiosity rover. We will discuss the increased radiation exposure at Mars and elsewhere, put into the larger heliospheric context and discuss implications for human exploration.