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Space Weather: The International Journal of Research and Applications

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Since the era of development of the initial electrical telegraph systems in the early 19th century, the solar-terrestrial environment has influenced the design and operations of ever-increasing and sophisticated technical systems. James Van Allen reported in 1958 that the space environment around the Earth was not benign, but rather composed of high-intensity radiation. Engineers and scientists immediately recognized from this discovery that technical systems such as the communications satellites envisioned by Arthur Clark and John Pierce would require design and operations procedures (and therefore costs) that had not been otherwise anticipated. Space Weather: The International Journal of Research and Applications is an online publication devoted to the emerging field of space weather and its impact on technical systems, including telecommunications, electric power, and satellite navigation. The journal publishes (a) peer-reviewed articles presenting the latest engineering and science research in the field, including studies of the response of technical systems to specific space weather events, predictions of detrimental space weather impacts, and effects of natural radiation on aerospace systems; (b) news and feature articles providing up-to-date coverage of government agency initiatives worldwide and space weather activities of the commercial sector; (c) letters and opinion articles offering an exchange of ideas; and (d) editorial comments on current issues facing the community. The journal is published by the American Geophysical Union (AGU).

Keywords: Space weather impacts, Applications, Predictions