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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 September 21 06:05UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 20.09.2024 at 23:00 UTC was 154 sfu.
The background X-Ray flux is at the class C1.1 level.
No obviously Earth directed CMEs were observed in available LASCO imagery on September 17-19.
An equatorial coronal hole (CH1243) will rotated into an Earth facing position on September 22.

**II. Solar Energetic Particle Events**
Protons and electrons fluxes are quiet.

**III. Interplanetary and Geomagnetic conditions**
The solar wind speed measured by ACE satellite reached the max value 441 Km/s on September 21 at 03:30 UT during the last 24 hours.
The solar wind speed from STEREO A was detected 400 Km/s during the last 24 hours.
The vertical component of IMF Bz reached the max value -4 nT on September 20 at 20:45 UT during the last 24 hours.
The geomagnetic field was at quiet to unsettled levels during the last 24 hours.
The Kp index now is at quiet levels with Kp=2.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to unsettled levels on September 21 and at quiet levels on September 22-23.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 21.09.2024 | 08 | Quiet to Unsettled |
| 22.09.2024 | 05 | Quiet |
| 23.09.2024 | 05 | Quiet |

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