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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 September 19 06:10UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 18.09.2024 at 23:00 UTC was 163 sfu.
The background X-Ray flux is at the class C1.2 level.
No obviously Earth directed CMEs were observed in available LASCO imagery on September 16-18.

**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 507 Km/s on September 18 at 14:55 UT during the last 24 hours.
The solar wind speed from STEREO A was detected 500 Km/s during the last 24 hours.
The vertical component of IMF Bz reached the max value -8 nT on September 18 at 23:15 UT during the last 24 hours.
The geomagnetic field was at quiet to minor storm (G1) levels during the last 24 hours.
The Kp index now is at unsettled levels with Kp=3.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to active levels on September 19 and at quiet to unsettled levels on September 20-21.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 19.09.2024 | 13 | Quiet to Active |
| 20.09.2024 | 08 | Quiet to Unsettled |
| 21.09.2024 | 06 | Quiet to Unsettled |

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