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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 September 05 17:05UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 04.09.2024 at 23:00 UTC was 262 sfu.
The background X-Ray flux is at the class C2.4 level.
Seven M-class flares were produced on September 04.
No obviously Earth directed CMEs were observed in available LASCO imagery on September 02-04.
A coronal hole (CH1240) at northern hemisphere rotated into an Earth facing position on September 03.

**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 450 Km/s on September 04 at 18:20 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 -5 nT on September 05 at 08:25 UT during the last 24 hours.
The geomagnetic field was at quiet to active 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 05-07.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 05.09.2024 | 08 | Quiet to Unsettled |
| 06.09.2024 | 08 | Quiet to Unsettled |
| 07.09.2024 | 06 | Quiet to Unsettled |

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