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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 July 08 06:56UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 07.07.2024 at 23:00 UTC was 171 sfu.
The background X-Ray flux is at the class C2.4 level.
Six M-class flares were produced on July 07 and the biggest was the M2.5.
M2.5 class solar flare peaking on July 07 at 22:31 UT and producing a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on July 04-06.
A coronal hole (CH1230) at southern hemisphere rotated into an Earth facing position on July 06-07.

**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 415 Km/s on July 08 at 00:10 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 July 07 at 20:00 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 July 08-09 and at quiet levels on July 10.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 08.07.2024 | 10 | Quiet to unsettled |
| 09.07.2024 | 08 | Quiet to unsettled |
| 10.07.2024 | 05 | Quiet |

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