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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 July 26 08:16UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 25.07.2024 at 23:00 UTC was 167 sfu.
The background X-Ray flux is at the class C1.4 level.
AR3751 erupted on July 25 at 15:37 UT peak time producing a M1.3 class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on July 22-23.
---CME arrival forecast
A CME was observed on July 23 at 14:48 UT. The source is an M2.4 flare. This CME is expected to reach Earth between on July 25 at 20:16 UT and on July 26 at 07:57 UT according to EAM predictions.

**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 590 Km/s on July 26 at 05:40 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 -12 nT on July 25 at 21:05 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 minor storm (G1) levels with Kp=5.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to active or minor storm (G1) levels on July 26-27 due to the CME observed on July 23 and at quiet to unsettled level on July 28.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 26.07.2024 | 15 | Quiet to Minor Storm (G1) |
| 27.07.2024 | 12 | Quiet to Active |
| 28.07.2024 | 08 | Quiet to Unsettled |

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