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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 July 14 09:38UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 13.07.2024 at 23:00 UTC was 238 sfu.
The background X-Ray flux is at the class C3.8 level.
Five M-class flares were produced on July 13 and the biggest was the M5.0.
AR3738 erupted on July 13 at 23:01 UT peak time producing a M5.0 class solar flare and a radio blackout of category R2.
No obviously Earth directed CMEs were observed in available LASCO imagery on July 11-13.
A coronal hole (CH1231) at northern hemisphere rotated across the central meridian on July 10-11.

**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 360 Km/s on July 14 at 03:50 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 -3 nT on July 13 at 23:15 UT during the last 24 hours.
The geomagnetic field was at quiet levels during the last 24 hours.
The Kp index now is at quiet levels with Kp=1.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to active levels on July 14 due to the effect of the recurrent coronal hole high speed stream, at quiet to unsettled levels on July 15 and at quiet levels on July 16.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 14.07.2024 | 12 | Quiet to Active |
| 15.07.2024 | 08 | Quiet to unsettled |
| 16.07.2024 | 05 | Quiet |

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