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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 June 16 07:33UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 15.06.2024 at 23:00 UTC was 171 sfu.
The background X-Ray flux is at the class C2.2 level.
AR3712 erupted on June 15 at 06:27 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 June 12-14.
A small equatorial coronal hole (CH1226) was Earth facing on June 13-14. A coronal hole (CH1227) at northern hemisphere rotated across the central meridian on June 12.

**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 466 Km/s on June 15 at 21:05 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 -13 nT on June 15 at 11:40 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 quiet levels with Kp=1.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to unsettled levels with isolated active periods on June 16 due to the effect of the coronal hole high speed stream and at quiet to unsettled levels on June 17-18.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 16.06.2024 | 15 | Quiet to Active |
| 17.06.2024 | 08 | Quiet to Unsettled |
| 18.06.2024 | 08 | Quiet to Unsettled |

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Athens Space Weather Forecasting Center
Physics Department, National & Kapodistrian University of Athens
Athens Neutron Monitor Station A.NE.MO.S
Tel.: +30 210 727 6901
email: spaceweather@phys.uoa.gr
URL: http://spaceweather.phys.uoa.gr
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