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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 June 18 05:31UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 17.06.2024 at 23:00 UTC was 180 sfu.
The background X-Ray flux is at the class C1.5 level.
Three M-class solar flares were produced on June 17 and the biggest was the M1.6.
AR3712 erupted on June 17 at 08:04 UT peak time producing a M1.6 class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on June 14-16.
A small equatorial coronal hole (CH1226) was Earth facing on June 13-14.

**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 611 Km/s on June 18 at 02:50 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 -9 nT on June 17 at 16:50 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 June 18-19 and at quiet levels on June 20.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 18.06.2024 | 10 | Quiet to Unsettled |
| 19.06.2024 | 08 | Quiet to Unsettled |
| 20.06.2024 | 05 | Quiet |

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