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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 June 23 07:24UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 22.06.2024 at 23:00 UTC was 196 sfu.
The background X-Ray flux is at the class C8.7 level.
Three M-class solar flares were produced on June 22 and the biggest was the M2.9.
AR3716 erupted on June 22 at 08:55 UT peak time producing a M2.9 class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on June 20-22.
A coronal hole (CH1228) at northern hemisphere was Earth facing on June 18.

**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 372 Km/s on June 23 at 06:10 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 -8 nT on June 23 at 06:30 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=2.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to unsettled levels on June 23 and at quiet levels on June 24-25.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 23.06.2024 | 08 | Quiet to Unsettled |
| 24.06.2024 | 05 | Quiet |
| 25.06.2024 | 05 | Quiet |

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