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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 June 08 07:22UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 07.06.2024 at 23:00 UTC was 184 sfu.
The background X-Ray flux is at the class C3.6 level.
Two M-class flares were produced on June 07 and the biggest was the M4.0.
AR3709 erupted on June 07 at 09:13 UT peak time producing a M4.0 class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on June 04-06.
A coronal hole (CH1224) at northern hemisphere rotated across the central meridian on June 04-06. A coronal hole (CH1225) at southern hemisphere will become Earth facing on June 10.

**II. Solar Energetic Particle Events**
GOES Proton Flux for particles with energies above 10 MeV exceed the SWPC 10 MeV warning threshold on June 08 at 02:50 UT. A solar radiation storm of level S2 was also observed.

**III. Interplanetary and Geomagnetic conditions**
The solar wind speed measured by ACE satellite reached the max value 503 Km/s on June 07 at 19:40 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 -14 nT on June 07 at 14:00 UT during the last 24 hours.
The geomagnetic field was at quiet to moderate storm (G2) levels during the last 24 hours.
The Kp index now is at unsettled levels with Kp=3.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to active levels on June 08, at quiet to unsettled levels on June 09 and at quiet levels on June 10.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 08.06.2024 | 10 | Quiet to Active |
| 09.06.2024 | 08 | Quiet to Unsettled |
| 10.06.2024 | 05 | Quiet |

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