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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 April 24 03:57UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 23.04.2024 at 23:00 UTC was 219 sfu.
The background X-Ray flux is at the class C4.4 level.
Three M-class solar flares were produced on April 23 and the biggest was the M3.6.
AR3654 erupted on April 23 at 03:19 UT peak time producing a M3.6 class solar flare and a radioblackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on April 19-20.
An equatorial coronal hole (CH1215) was Earth facing on April 22-23.

**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 489 Km/s on April 23 at 12:45 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 -5 nT on April 23 at 17:45 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 April 24 and at quiet to active levels on Aprl 25-26 due to the effects of coronal hole high speed stream.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 24.04.2024 | 08 | Quiet to Unsettled |
| 25.04.2024 | 15 | Quiet to Active |
| 26.04.2024 | 15 | Quiet to Active |

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