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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 April 02 04:02UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 01.04.2024 at 23:00 UTC was 125 sfu.
The background X-Ray flux is at the class B5.9 level.
AR3615 erupted on April 01 at 01:32 UT peak time producing a M3.9 class solar flare and a radioblackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on March 30-April 01.
A coronal hole (CH1210) at northern hemisphere was Earth facing on March 31. An equatorial coronal hole (CH1211) rotated into an Earth facing position on March 31-April 1.

**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 547 Km/s on April 01 at 11:00 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 01 at 19:10 UT during the last 24 hours.
The geomagnetic field was at quiet to active 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 02 and at quiet to active levels with a chance of minor srorm (G1) levels on April 03-04 due to effects from CH1210 and CH1211.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 02.04.2024 | 08 | Quiet to Unsettled |
| 03.04.2024 | 10 | Quiet to Active |
| 04.04.2024 | 15 | Quiet to Active |

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