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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 May 02 08:32UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 01.05.2024 at 23:00 UTC was 135 sfu.
The background X-Ray flux is at the class C1.3 level.
Two M-class solar flares were produced on May 01 and the biggest was the M1.9.
AR3654 erupted on May 01 at 14:44 UT peak time producing a M1.9 class solar flare and a radioblackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on April 29-30.
A coronal hole (CH1219) at northern hemisphere will be Earth facing on May 01-02. An equatorial coronal hole (CH1220) will rotate across the central meridian on May 03.

**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 376 Km/s on May 02 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 -7 nT on May 02 at 04:45 UT during the last 24 hours.
The geomagnetic field was at quiet to unsettled levels during the last 24 hours due to the effects of coronal hole high speed stream.
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 with isolated active periods on May 02-04 due to the effects of coronal hole high speed stream.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 02.05.2024 | 10 | Quiet to Unsettled |
| 03.05.2024 | 12 | Quiet to Unsettled |
| 04.05.2024 | 10 | Quiet to Unsettled |

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