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Product: Daily Forecast of Geomagnetic Activity  
Issued: 2024 May 07 07:12UTC  
Prepared by the Athens Space Weather Forecasting Center  
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**I. Solar activity**  
*--Current Status*  
Solar Flux (10.7cm) measured on 06.05.2024 at 23:00 UTC was 171 sfu.  
The background X-Ray flux is at the class M2.1 level.  
Four M-class and 1X-class solar flares were produced on May 06.  
AR3663 erupted on May 06 at 06:35 UT peak time producing a X4.5 class solar flare and a radioblackout of category R3.  
No obviously Earth directed CMEs were observed in available LASCO imagery on April 29-30.  
A coronal hole (CH1219) at northern hemisphere was Earth facing on May 01-02. An equatorial coronal hole (CH1220 rotated across the central meridian on May 03.  
---CME arrival forecast  
A CME was observed on the Sun on May 03 at 02:48 UT after the X1.7 class solar flare. This CME was expected reach Earth on May 05 between 10:22 UT and 20:26 UT according to EAM predictions.  
  
**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 580 Km/s on May 06 at 19:30 UT during the last 24 hours.  
The solar wind speed from STEREO A was detected 450 Km/s during the last 24 hours.  
The vertical component of IMF Bz reached the max value -7 nT on May 06 at 12:05 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 active levels on May 07 and at quiet to unsettled levels on May 08-09.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 07.05.2024 | 12 | Quiet to Active |
| 08.05.2024 | 10 | Quiet to Unsettled |
| 09.05.2024 | 08 | Quiet to Unsettled |

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