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Product: Daily Forecast of Geomagnetic Activity  
Issued: 2025 April 02 06:26UTC  
Prepared by the Athens Space Weather Forecasting Center  
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**I. Solar activity**  
*--Current Status*  
Solar Flux (10.7cm) measured on 01.04.2025 at 23:00 UTC was 182 sfu.  
The background X-Ray flux is at the class C1.1 level.  
Two M-class solar flares were produced on April 01.  
AR4046 erupted on April 01 at 06:46 UT peak time producing a M5.6-class solar flare and a radio blackout of category R2.  
No obviously Earth directed CMEs were observed in available LASCO imagery on March 30-April 01.  
An equatorial coronal hole (CH1281) rotated across the central meridian on April 01-02.  
  
**II. Solar Energetic Particle Events**  
GOES Proton Flux for particles with energies above 10 MeV exceed the SWPC 10 MeV warning threshold on March 31 at 14:30 UT. A solar radiation storm of level S2 was also observed.  
The greater than 2 MeV electron flux at geosynchronous orbit reached minor storm level.  
  
**III. Interplanetary and Geomagnetic conditions**  
The solar wind speed measured by ACE satellite reached the max value 488 Km/s on April 02 at 02:25 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 -8 nT on April 02 at 04:35 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 active levels with Kp=1.  
  
**IV. 3-day Geomagnetic Activity Forecast**  
The geomagnetic field is expected to be at quiet to unsettled levels on April 02-03 and at quiet to active levels on April 04.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 02.04.2025 | 08 | Quiet to Unsettled |
| 03.04.2025 | 08 | Quiet to Unsettled |
| 04.04.2025 | 15 | Quiet to Active |

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