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Product: Daily Forecast of Geomagnetic Activity  
Issued: 2025 April 01 04:13UTC  
Prepared by the Athens Space Weather Forecasting Center  
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**I. Solar activity**  
*--Current Status*  
Solar Flux (10.7cm) measured on 31.03.2025 at 23:00 UTC was 172 sfu.  
The background X-Ray flux is at the class C2.1 level.  
One M1.3-class solar flare was produced on March 31 at 10:24 UT from AR4048.  
No obviously Earth directed CMEs were observed in available LASCO imagery on March 28-30.  
A large coronal hole (CH1279) at southern hemisphere was Earth facing on March 21-26.  
  
**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 493 Km/s on March 31 at 18:25 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 -6 nT on March 31 at 14:10 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=1.  
  
**IV. 3-day Geomagnetic Activity Forecast**  
The geomagnetic field is expected to be at quiet to unsettled levels on April 01-02 and at quiet levels on April 03.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 01.04.2025 | 08 | Quiet to Unsettled |
| 02.04.2025 | 08 | Quiet to Unsettled |
| 03.04.2025 | 05 | Quiet |

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