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Product: Daily Forecast of Geomagnetic Activity  
Issued: 2025 March 22 18:34UTC  
Prepared by the Athens Space Weather Forecasting Center  
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**I. Solar activity**  
*--Current Status*  
Solar Flux (10.7cm) measured on 21.03.2025 at 23:00 UTC was 165 sfu.  
The background X-Ray flux is at the class A0.0 level.  
AR4028 erupted on March 21 at 15:58 UT peak time producing a M1.2-class solar flare and a radio blackout of category R1.  
No obviously Earth directed CMEs were observed in available LASCO imagery on March 18-20.  
A small equatorial coronal hole (CH1277) rotated across the central meridian on March 19.  
  
**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 530 Km/s on March 21 at 23:00 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 -15 nT on March 22 at 00:25 UT during the last 24 hours.  
The geomagnetic field was at quiet to moderate storm (G2) levels during the last 24 hours.  
The Kp index now is at active levels with Kp=4.  
  
**IV. 3-day Geomagnetic Activity Forecast**  
The geomagnetic field is expected to be at quiet to moderate storm (G2) levels on March 22 and at quiet to active levels on March 23-24.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 22.03.2025 | 25 | Quiet to Moderate Storm (G2) |
| 23.03.2025 | 12 | Quiet to Active |
| 24.03.2025 | 08 | Quiet to Active |

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