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Product: Daily Forecast of Geomagnetic Activity  
Issued: 2024 March 29 06:34UTC  
Prepared by the Athens Space Weather Forecasting Center  
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**I. Solar activity**  
*--Current Status*  
Solar Flux (10.7cm) measured on 28.03.2024 at 23:00 UTC was 173 sfu.  
The background X-Ray flux is at the class C2.6 level.  
One X and three M-class solar flares were produced on March 28.  
AR3615 erupted on March 28 at 20:56 UT peak time producing a X1.1 class solar flare and a radioblackout of category R2.  
No obviously Earth directed CMEs were observed in available LASCO imagery on March 25-27.  
A hemisphere coronal hole (CH1208) will be Earth facing on March 27-28. A equatorial coronal hole (CH1209) was Earth facing on March 27.  
  
**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 450 Km/s on March 28 at 07:25 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 -2 nT on March 28 at 06:15 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=2.  
  
**IV. 3-day Geomagnetic Activity Forecast**  
The geomagnetic field is expected to be at quiet levels on March 29 and at quiet to unsettled levels on March 30-31 due to effects from CH1208 and CH1209.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 29.03.2024 | 05 | Quiet |
| 30.03.2024 | 08 | Quiet to Unsettled |
| 31.03.2024 | 10 | Quiet to Unsettled |

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