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Product: Daily Forecast of Geomagnetic Activity  
Issued: 2024 March 09 08:37UTC  
Prepared by the Athens Space Weather Forecasting Center  
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**I. Solar activity**  
*--Current Status*  
Solar Flux (10.7cm) measured on 08.03.2024 at 23:00 UTC was 129 sfu.  
The background X-Ray flux is at the class B6.0 level.  
AR3599 erupted on March 08 at 21:26 UT peak time producing a M1.3 class solar flare and a radioblackout of category R1.  
No obviously Earth directed CMEs were observed in available LASCO imagery on March 05-07.  
A small coronal hole (CH1203) at southern hemisphere was in an Earth facing position on March 05.  
  
**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 528 Km/s on March 08 at 08:00 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 -5 nT on March 08 at 08:25 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 unsettled levels with Kp=3.  
  
**IV. 3-day Geomagnetic Activity Forecast**  
The geomagnetic field is expected to be at quiet to active levels on March 09 due to the effects of the coronal hole high speed stream and at quiet to unsettled levels on March 10-11.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 09.03.2024 | 15 | Quiet to Active |
| 10.03.2024 | 08 | Quiet to Unsettled |
| 11.03.2024 | 06 | Quiet to Unsettled |

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