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Product: Daily Forecast of Geomagnetic Activity  
Issued: 2024 March 16 06:41UTC  
Prepared by the Athens Space Weather Forecasting Center  
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**I. Solar activity**  
*--Current Status*  
Solar Flux (10.7cm) measured on 15.03.2024 at 23:00 UTC was 129 sfu.  
The background X-Ray flux is at the class C1.0 level.  
No obviously Earth directed CMEs were observed in available LASCO imagery on March 12-14.  
A small coronal hole (CH1205) at southern hemisphere was Earth facing on March 13. A coronal hole (CH1206) at northern hemisphere was in an Earth facing position on March 14.  
  
**II. Solar Energetic Particle Events**  
GOES Proton Flux for particles with energies above 10 MeV exceed the SWPC 10 MeV warning threshold on March 15 at 21:00 UT. A solar radiation storm of level S1 was also observed.  
  
**III. Interplanetary and Geomagnetic conditions**  
The solar wind speed measured by ACE satellite reached the max value 444 Km/s on March 15 at 12:55 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 -4 nT on March 15 at 07:45 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=0.  
  
**IV. 3-day Geomagnetic Activity Forecast**  
The geomagnetic field is expected to be at quiet to unsettled levels on March 16-17 and at quiet levels on March 18.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 16.03.2024 | 08 | Quiet to Unsettled |
| 17.03.2024 | 06 | Quiet to Unsettled |
| 18.03.2024 | 05 | Quiet |

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