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Product: Daily Forecast of Geomagnetic Activity  
Issued: 2024 February 14 05:01UTC  
Prepared by the Athens Space Weather Forecasting Center  
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**I. Solar activity**  
*--Current Status*  
Solar Flux (10.7cm) measured on 13.02.2024 at 23:00 UTC was 180 sfu.  
The background X-Ray flux is at the class C1.5 level.  
No obviously Earth directed CMEs were observed in available LASCO imagery on February 07-08.  
---CME arrival forecast  
A CME was observed on February 10 at 07:00 UT from AR3576. This CME was expected to reach Earth on February 12 between 11:20 UT and 22:51 UT according to EAM predictions.  
Another partial halo was observed on February 10 at 23:36 UT from AR3576 after the M9.0 class solar flare. This CME was expected to reach Earth on February 13 between 01:00 UT and 14:22 UT according to EAM predictions.  
  
**II. Solar Energetic Particle Events**  
GOES Proton Flux for particles with energies above 10 MeV exceed the SWPC 10 MeV warning threshold on February 12 at 08:00 UT. A solar radiation storm of level S2 was also observed.  
  
**III. Interplanetary and Geomagnetic conditions**  
The solar wind speed measured by ACE satellite reached the max value 508 Km/s on February 14 at 04:35 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 February 13 at 14:00 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 quiet to unsettled levels with Kp=3.  
  
**IV. 3-day Geomagnetic Activity Forecast**  
The geomagnetic field is expected to be at quiet to minor storm (G1) levels on February 14 due to effects of CMEs observed on February 10, at quiet to unsettled levels on February 15 and at quiet levels on February 16.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 14.02.2024 | 18 | Quiet to Minor storm (G1) |
| 15.02.2024 | 10 | Quiet to Unsettled |
| 16.02.2024 | 05 | Quiet |

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