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Product: Daily Forecast of Geomagnetic Activity  
Issued: 2024 September 04 08:18UTC  
Prepared by the Athens Space Weather Forecasting Center  
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**I. Solar activity**  
*--Current Status*  
Solar Flux (10.7cm) measured on 03.09.2024 at 23:00 UTC was 242 sfu.  
The background X-Ray flux is at the class C5.5 level.  
Two M-class flares were produced on September 03 and the largest was the M3.3.  
AR3813 erupted on September 03 at 16:02 UT peak time producing a M3.3 class solar flare and a radio blackout of category R1.  
No obviously Earth directed CMEs were observed in available LASCO imagery on September 02-03.   
A coronal hole (CH1240) at northern hemisphere could rotate into an Earth facing position on September 03.  
  
**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 407 Km/s on September 03 at 12:20 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 September 03 at 03:55 UT during the last 24 hours.  
The geomagnetic field was at quiet levels during the last 24 hours.  
The Kp index now is at quiet levels with Kp=1.  
  
**IV. 3-day Geomagnetic Activity Forecast**  
The geomagnetic field is expected to be at quiet to unsettled levels on September 04-06.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 04.09.2024 | 08 | Quiet to Unsettled |
| 05.09.2024 | 08 | Quiet to Unsettled |
| 06.09.2024 | 06 | Quiet to Unsettled |

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