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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 September 27 07:49UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 26.09.2024 at 23:00 UTC was 181 sfu.
The background X-Ray flux is at the class C3.0 level.
AR3839 erupted on September 26 at 23:12 UT peak time producing a M1.4 class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on September 24-26.
An equatorial coronal hole (CH1244) was in an Earth facing position on September 25-26.

**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 429 Km/s on September 26 at 11:20 UT during the last 24 hours.
The solar wind speed from STEREO A was detected 500 Km/s during the last 24 hours.
The vertical component of IMF Bz reached the max value -6 nT on September 27 at 06:00 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 unsettled levels with Kp=3.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet levels on September 27 and at quiet to unsettled levels on September 28-29.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 27.09.2024 | 05 | Quiet |
| 28.09.2024 | 08 | Quiet to Unsettled |
| 29.09.2024 | 10 | Quiet to Unsettled |

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