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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 October 01 06:27UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 30.09.2024 at 23:00 UTC was 214 sfu.
The background X-Ray flux is at the class C2.6 level.
AR3842 erupted on September 30 at 14:24 UT peak time producing a M7.7 class solar flare and a radio blackout of category R2.
No obviously Earth directed CMEs were observed in available LASCO imagery on September 28-30.

**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 517 Km/s on September 30 at 09:55 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 -6 nT on September 30 at 20:15 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=2.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet levels on October 01-03.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 01.10.2024 | 05 | Quiet |
| 02.10.2024 | 05 | Quiet |
| 03.10.2024 | 05 | Quiet |

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