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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 October 02 09:04UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 01.10.2024 at 23:00 UTC was 245 sfu.
The background X-Ray flux is at the class C4.5 level.
One X-class and two M1-class solar flares were produced on October 01.
AR3842 erupted on October 01 at 22:20 UT peak time producing a X7.1 class solar flare and a radio blackout of category R3.
No obviously Earth directed CMEs were observed in available LASCO imagery on September 29-30.

**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 455 Km/s on October 01 at 15:35 UT during the last 24 hours.
The solar wind speed from STEREO A was detected 350 Km/s during the last 24 hours.
The vertical component of IMF Bz reached the max value -4 nT on October 02 at 04:15 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 02-04.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 02.10.2024 | 05 | Quiet |
| 03.10.2024 | 05 | Quiet |
| 04.10.2024 | 05 | Quiet |

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