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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 April 20 06:08UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 19.04.2025 at 23:00 UTC was 157 sfu.
The background X-Ray flux is at the class C1.1 level.
No obviously Earth directed CMEs were observed in available LASCO imagery on April 16-18.
An equatorial coronal hole (CH1285) was Earth facing on April 14.
A southern hemisphere coronal hole (CH1286) will likely rotate across the central meridian on April 17-21.

**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 436 Km/s on April 20 at 02:05 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 -9 nT on April 19 at 21:05 UT during the last 24 hours.
The geomagnetic field was at quiet to minor storm (G1) levels during the last 24 hours.
The Kp index now is at minor storm (G1) levels with Kp=5.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to active levels on April 20, at quiet to moderate storm (G2) levels on April 21 and at quiet to minor storm (G1) levels on April 22.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 20.04.2025 | 12 | Quiet to Active |
| 21.04.2025 | 35 | Quiet to Moderate Storm (G2) |
| 22.04.2025 | 30 | Quiet to Minor Storm (G1) |

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