

## **General list of amendments**

### ***Line 322***

The letter K for ‘K index’ was changed into italics.

### ***Line 324***

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### ***Figure 4 and Lines 339–343***

We have amended the figure: tags for all three plots added, as well as the scale for K index.

The caption was altered as follows:

Figure 4: A schematic representation of the manual determination of geomagnetic variations’ amplitudes for K index calculation. Purple vertical lines correspond to the maximum disturbances in the H component in every 3-hour interval. Similarly, the maximum disturbance amplitudes for the D component are determined. Then the values of the quiet daily variation Sq in each 3-hour interval are subtracted from the amplitudes. The largest value of the two amplitudes obtained for each of the 3-hour intervals using the observatory K index scale is converted into the K index value and adopted as the final one.

### ***Figure 8***

Figure 8 was altered according to the referee’s recommendations.