

NOUS41 KWBC 141650  
PNSWSH

Service Change Notice 22-101  
National Weather Service Headquarters Silver Spring MD  
1250 PM EDT Fri Oct 14 2022

To:           Subscribers:  
              -NOAA Weather Wire Service  
              -Emergency Managers Weather Information Network  
              -NOAAPort  
              Other NWS Partners, Users and Employees

From:       Bruce Entwistle  
              Chief, Aviation and Space Weather Services Branch

Subject: Deployment of an Update to the Planetary K Index (Kp) on or  
about November 14, 2022

On or about November 14, 2022, at 1700 Coordinated Universal Time (UTC), the National Weather Service's Space Weather Prediction Center (SWPC) will deploy an update to the Planetary K index (Kp), adding two decimals of precision. The Kp index is currently provided as an integer. The improved precision will more accurately reflect the state of Earth's magnetic field and allow better correlation of this index with other indicators of geomagnetic activity. The change will propagate across ten products which incorporate or display Kp. An eleventh product will be discontinued due to duplicative content as detailed below. The current products and static samples of the new formats are provided below:

Daily Indices:

Current - <ftp://ftp.swpc.noaa.gov/pub/latest/dayind.txt>  
Sample - [https://services.swpc.noaa.gov/text/scn/fy22-kp/10-102\\_dayind\\_sample.txt](https://services.swpc.noaa.gov/text/scn/fy22-kp/10-102_dayind_sample.txt)

Current Indices:

Current - <https://services.swpc.noaa.gov/text/current-space-weather-indices.txt>  
Sample - [https://services.swpc.noaa.gov/text/scn/fy22-kp/10-102\\_curind\\_sample.txt](https://services.swpc.noaa.gov/text/scn/fy22-kp/10-102_curind_sample.txt)

3-Day Forecast:

Current - <http://services.swpc.noaa.gov/text/3-day-forecast.txt>  
Sample - [https://services.swpc.noaa.gov/text/scn/fy22-kp/10-102\\_three\\_day\\_forecast\\_sample.txt](https://services.swpc.noaa.gov/text/scn/fy22-kp/10-102_three_day_forecast_sample.txt)

Geomagnetic Data (Real-Time List, AK):

Current - <ftp://ftp.swpc.noaa.gov/pub/lists/geomag/>  
Sample - [https://services.swpc.noaa.gov/text/scn/fy22-kp/10-102\\_AK\\_sample.txt](https://services.swpc.noaa.gov/text/scn/fy22-kp/10-102_AK_sample.txt)

Daily Geomagnetic Data (DGD):

Current - <https://services.swpc.noaa.gov/text/daily-geomagnetic-indices.txt>

Sample - [https://services.swpc.noaa.gov/text/scn/fy22-kp/10-102\\_DGD\\_sample.txt](https://services.swpc.noaa.gov/text/scn/fy22-kp/10-102_DGD_sample.txt)

3-Day Geomagnetic Forecast:

Current - <https://www.swpc.noaa.gov/products/3-day-geomagnetic-forecast>

Sample - [https://services.swpc.noaa.gov/text/scn/fy22-kp/10-102\\_3-day-geomag-forecast\\_sample.txt](https://services.swpc.noaa.gov/text/scn/fy22-kp/10-102_3-day-geomag-forecast_sample.txt)

Observed Planetary K Index (3-hour intervals):

Current - <https://services.swpc.noaa.gov/products/noaa-planetary-k-index.json>

Sample - [https://services.swpc.noaa.gov/text/scn/fy22-kp/10-102\\_noaa-planetary-k-index\\_sample.json](https://services.swpc.noaa.gov/text/scn/fy22-kp/10-102_noaa-planetary-k-index_sample.json)

Forecast Planetary K Index (3-hour intervals):

Current - <https://services.swpc.noaa.gov/products/noaa-planetary-k-index-forecast.json>

Sample - [https://services.swpc.noaa.gov/text/scn/fy22-kp/10-102\\_noaa-planetary-k-index-forecast\\_sample.json](https://services.swpc.noaa.gov/text/scn/fy22-kp/10-102_noaa-planetary-k-index-forecast_sample.json)

Estimated Planetary K Index (1 minute):

Current - <https://services.swpc.noaa.gov/products/Noaa-estimated-planetary-k-index-1-minute.json> (to be discontinued due to duplicative content)

- [https://services.swpc.noaa.gov/json/Planetary\\_k\\_index\\_1m.json](https://services.swpc.noaa.gov/json/Planetary_k_index_1m.json)  
(to be updated)

Sample - [https://services.swpc.noaa.gov/text/scn/fy22-kp/10-102\\_planetary\\_k\\_index\\_1m\\_sample.json](https://services.swpc.noaa.gov/text/scn/fy22-kp/10-102_planetary_k_index_1m_sample.json)

Geophysical Alert Message (WWV):

Current - <https://www.swpc.noaa.gov/products/geophysical-alert-wwv-text>

Sample - [https://services.swpc.noaa.gov/text/scn/fy22-kp/10-102\\_wwv\\_sample.txt](https://services.swpc.noaa.gov/text/scn/fy22-kp/10-102_wwv_sample.txt)

For any comments/feedback on this change at SWPC, please contact:

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National Service Change Notices are online at:

<https://www.weather.gov/notification>

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