

NOUS41 KWBC 021815  
PNSWSH

Service Change Notice 26-21  
National Weather Service Headquarters Silver Spring MD  
115 PM EST Mon Mar 2 2026

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

From:         Clinton Wallace  
              Director, Space Weather Prediction Center

Subject: Data Format Changes Impacting Space Weather Prediction Center  
Products Effective on or about March 31, 2026.

Effective on or about March 31, 2026, the Space Weather Prediction Center (SWPC) will implement data format changes that restructure JSON data for the following products:

<https://services.swpc.noaa.gov/products/kyoto-dst.json>  
<https://services.swpc.noaa.gov/products/summary/10cm-flux.json>  
<https://services.swpc.noaa.gov/products/10cm-flux-30-day.json>  
<https://services.swpc.noaa.gov/products/noaa-planetary-k-index.json>  
<https://services.swpc.noaa.gov/products/summary/solar-wind-mag-field.json>  
<https://services.swpc.noaa.gov/products/summary/solar-wind-speed.json>  
<https://services.swpc.noaa.gov/products/noaa-planetary-k-index-forecast.json>

The products `kyoto-dst.json`, `10cm-flux-30-day.json`, `noaa-planetary-k-index.json`, `noaa-planetary-k-index-forecast.json` will be updated from a format where the first entry contains the keys and the subsequent entries contain the corresponding values, to a standard JSON object format where each object explicitly defines its data using key-value pairs. The data values aside from the "time\_tag" will be numeric, and will no longer be quoted.

The products `10-cm-flux.json`, `solar-wind-mag-field.json` and `solar-wind-speed.json` will now include the outside brackets so that those files follow the standard JSON array format. The data values aside from the "time\_tag" will be numeric, and will no longer be quoted.

Static examples of these files in their new formats are available at <https://services.swpc.noaa.gov/text/scn/fy26-03/>

Removal of Deprecated Real-Time Solar Wind (RTSW) Products: Effective on or about April 30, 2026

The following RTSW products are being deprecated and will be removed:

<https://services.swpc.noaa.gov/products/solar-wind/mag-1-day.json>

<https://services.swpc.noaa.gov/products/solar-wind/mag-2-hour.json>  
<https://services.swpc.noaa.gov/products/solar-wind/mag-3-day.json>  
<https://services.swpc.noaa.gov/products/solar-wind/mag-5-minute.json>  
<https://services.swpc.noaa.gov/products/solar-wind/mag-6-hour.json>  
<https://services.swpc.noaa.gov/products/solar-wind/mag-7-day.json>  
<https://services.swpc.noaa.gov/products/solar-wind/plasma-1-day.json>  
<https://services.swpc.noaa.gov/products/solar-wind/plasma-2-hour.json>  
<https://services.swpc.noaa.gov/products/solar-wind/plasma-3-day.json>  
<https://services.swpc.noaa.gov/products/solar-wind/plasma-5-minute.json>  
<https://services.swpc.noaa.gov/products/solar-wind/plasma-6-hour.json>  
<https://services.swpc.noaa.gov/products/solar-wind/plasma-7-day.json>  
<https://services.swpc.noaa.gov/products/solar-wind/ephemerides.json>

## Alternative RTSW Products

Replacement products are available now at the following endpoints:

[https://services.swpc.noaa.gov/json/rtsw/rtsw\\_ephemerides\\_1h.json](https://services.swpc.noaa.gov/json/rtsw/rtsw_ephemerides_1h.json)  
[https://services.swpc.noaa.gov/json/rtsw/rtsw\\_mag\\_1m.json](https://services.swpc.noaa.gov/json/rtsw/rtsw_mag_1m.json)  
[https://services.swpc.noaa.gov/json/rtsw/rtsw\\_wind\\_1m.json](https://services.swpc.noaa.gov/json/rtsw/rtsw_wind_1m.json)

These updated RTSW products include both "source" and "active" metadata fields:

source – identifies the satellite from which the data originated

active – a boolean indicating whether the satellite was considered active by SWPC forecasters at the time

The deprecated products included data only from whichever satellite was deemed active at the time, without exposing this metadata.

The original values, excluding the "time\_tag" value were stored as quoted strings, while the replacement values are numeric floats without quotes.

The replacement files for the deprecated magnetometer and solar wind products contain four of the old timeframes (1-day, 2-hour, 5-minute and 6-hour). To support the updated cadence, 3-day and 7-day users must retrieve and retain the 1-day file.

The replacement file for the ephemerides product will be updated to include the data into the next month that the deprecated product provides.

## Data Element Mapping

### RTSW Plasma (Wind)

The "time\_tag" field is the same in the replacement, for "density" users will need to use "proton\_density", "speed" will map to "proton\_speed", and "temperature" maps to "proton\_temperature".

### RTSW Magnetometer (Mag)

The "time\_tag", "bx\_gsm", "by\_gsm", "bz\_gsm", "bt" fields are the same in the replacement, "lon\_gsm" users will need to use "phi\_gsm", "lat\_gsm" will map to "theta\_bsm".

For questions and comments, please contact:

Jaclyn Stickrod  
Software Engineer  
NOAA Space Weather Prediction Center  
Boulder, CO  
Email: [jaclyn.stickrod@noaa.gov](mailto:jaclyn.stickrod@noaa.gov)

and

Ben Nichols  
Chief, Technology Division  
NOAA Space Weather Prediction Center  
Boulder, CO  
Email: [ben.nichols@noaa.gov](mailto:ben.nichols@noaa.gov)

National Service Change Notices are online at:  
<https://www.weather.gov/notification/>

NNNN