Thời tiết không gian toàn cầu

intl.khi-tuong-thuy-van.thoi-tiet-khong-gian.space-weather

Version 2026.11.23 · Cập nhật 2026-11-23 · Chính sách cập nhật daily

ĐIỂM NỔI BẬT

CHỈ SỐ KP GẦN NHẤT

1.67

Kp

Quan trắc kết thúc 22/11/2026 21:00 UTC

THÔNG LƯỢNG F10.7 DỰ BÁO

95

sfu

Dự báo cho 23/11/2026

AP DỰ BÁO

12

nT

Dự báo cho 23/11/2026

DỮ LIỆU

Planetary Kp index — 1.67 Kp

Kỳ dữ liệu: 2026-11-22T21:00:00Z · Địa bàn: Toàn cầu

Solar radio flux F10.7 observed — 94 sfu

Kỳ dữ liệu: 2026-11-22 · Địa bàn: Penticton, Canada; chỉ số bức xạ Mặt Trời toàn cầu

Geomagnetic Ap forecast — 12 nT

Kỳ dữ liệu: 2026-11-23 · Địa bàn: Toàn cầu

Solar radio flux F10.7 forecast — 95 sfu

Kỳ dữ liệu: 2026-11-23 · Địa bàn: Penticton, Canada; chỉ số bức xạ Mặt Trời toàn cầu

NGUỒN & ĐỘ MỚI

Phiên bản: 2026.11.23
Cập nhật: 2026-11-23
Giấy phép: Không ghi nhận

NOAA Space Weather Prediction Center — NOAA Planetary K-Index Forecast
https://services.swpc.noaa.gov/products/noaa-planetary-k-index-forecast.json

NOAA Space Weather Prediction Center — Space weather alerts and warnings
https://services.swpc.noaa.gov/products/alerts.json

NOAA National Centers for Environmental Information — Joint USAF/NOAA Solar Geophysical Activity Report and Forecast, 08 Oct 2026
https://www.ngdc.noaa.gov/stp/space-weather/

NOAA Space Weather Prediction Center — Subscription Services and product schedules
https://www.spaceweather.gov/content/subscription-services

NOAA Space Weather Prediction Center — NOAA Scales
https://www.spaceweather.gov/noaa-scales-explanation

SpaceWeatherLive — NOAA SWPC Alerts, Watches and Warnings
https://www.spaceweatherlive.com/en/reports/noaa-swpc-alerts-watches-and-warnings.html

NOAA Space Weather Prediction Center — Planetary K-index: description and contributing magnetometers
https://www.spaceweather.gov/products/planetary-k-index

NOAA Space Weather Prediction Center / National Weather Service — 3-Day Space Weather Forecast, issued 2026-10-11 00:30 UTC
https://forecast.weather.gov/product.php?issuedby=TDF&product=DAY&site=BOU

W4/VP9KF Propagation — Propagation data reproducing NOAA Geophysical Alert Message
https://w4.vp9kf.com/propagation.htm

NOAA Space Weather Prediction Center — Geophysical Alert Message WWV
https://services.swpc.noaa.gov/text/wwv.txt

NOAA Space Weather Prediction Center / National Weather Service — Routine Space Environment Product: 3-Day Forecast
https://forecast.weather.gov/product.php?format=CI&glossary=1&issuedby=TDF&product=DAY&site=NWS&version=1

NOAA Space Weather Prediction Center — Station K and A Indices
https://prod-02-asg-www-swpc.woc.noaa.gov/products/station-k-and-indices

GFZ Helmholtz Centre for Geosciences — Kp index data access and methodology
https://kp.gfz.de/en/data

NOAA Space Weather Prediction Center — Daily Geomagnetic Data
https://services.swpc.noaa.gov/text/daily-geomagnetic-indices.txt

NOAA Space Weather Prediction Center — SWPC Products data index
https://services.swpc.noaa.gov/products/

NOAA Space Weather Prediction Center — SWPC JSON data index
https://services.swpc.noaa.gov/json/

NOAA Space Weather Prediction Center — Station K and A Indices
https://www.swpc.noaa.gov/products/station-k-and-indices

NOAA / National Weather Service Space Weather Prediction Center — 3-Day Forecast, issued 2026-10-06 12:30 UTC
https://www.spaceweather.gov/products/3-day-geomagnetic-forecast

NOAA Space Weather Prediction Center — Daily Solar Data (DSD.txt)
https://www.spaceweather.gov/phenomena/f107-cm-radio-emissions

NOAA / NWS Space Weather Prediction Center — Kyoto Dst index
https://services.swpc.noaa.gov/products/kyoto-dst.json

NOAA / NWS Space Weather Prediction Center; GFZ — Station K and A Indices; GFZ geomagnetic Kp reference
https://www.gfz.de/en/section/geomagnetism/data-products-services/geomagnetic-kp-index

SpaceWeather.com — SpaceWeather.com Time Machine — Nov. 13, 2026
https://www.spaceweather.com/archive.php/meteors/quadrantids/more_links_popup.php?day=13&month=11&view=view&year=2026

NOAA Space Weather Prediction Center / National Weather Service — Routine Space Environment Product (Daily) — 3-Day Forecast
https://www.spaceweather.gov/products/3-day-forecast

GFZ Helmholtz Centre for Geosciences — Kp, ap, Ap, SN and F10.7 of the last 30 days
https://kp.gfz.de/fileadmin/files_for_gfz_cms/Kp_ap_Ap_SN_F107_nowcast.txt

eHam.net (dẫn bản tin NOAA/SWPC) — Geophysical Alert Message: chỉ số ngày 17/10/2026
https://www.eham.net/propagation

NASA Space Physics Data Facility — OMNIWeb data availability and documentation
https://omniweb.gsfc.nasa.gov/html/ow_data.html

GFZ Helmholtz Centre for Geosciences — Geomagnetic Planetary Indices — Nowcast data for November 2026
https://kp.gfz.de/en/

GFZ Helmholtz Centre for Geosciences — About Kp
https://kp.gfz.de/en/about-kp

NOAA Space Weather Prediction Center — Geophysical Alert Message
https://www.swpc.noaa.gov/

NOAA Space Weather Prediction Center — NOAA estimated planetary K-index feed and product description
https://www.swpc.noaa.gov/products/planetary-k-index

NOAA National Centers for Environmental Information — SWPC Products and Data
https://www.ncei.noaa.gov/products/space-weather/partners/swpc-products-and-data

NOAA / NWS Space Weather Prediction Center — 3-Day Space Weather Forecast, issued 2026-10-22 00:30 UTC
https://www.spaceweather.gov

NOAA Space Weather Prediction Center — 3-Day Forecast
https://services.swpc.noaa.gov/text/3-day-forecast.txt

NOAA Space Weather Prediction Center / National Weather Service — 3-Day Space Weather Forecast, issued 2026-11-20 00:30 UTC
https://www.spaceweather.gov/

NOAA Space Weather Prediction Center — Station K and A Indices
https://www.spaceweather.gov/products/station-k-and-indices

KC5JIM — Space weather daily solar data and estimated planetary K-indices
https://www.kc5jim.org/plugins/spaceWeather/index.php

NASA — OMNI Daily Data Set
https://data.nasa.gov/dataset/omni-daily-data-set

GFZ Helmholtz Centre for Geosciences — Kp, ap, Ap, SN and F10.7 nowcast and daily data
https://www-app3.gfz-potsdam.de/kp_index/Kp_ap_Ap_SN_F107_nowcast.txt

NOAA Space Weather Prediction Center — Joint USAF/NOAA Solar Geophysical Activity Report and Forecast
https://www.ngdc.noaa.gov/stp/space-weather/swpc-products/daily_reports/reports_solar_geophysical_activity/2026/10/20261026RSGA.txt

NOAA Space Weather Prediction Center — 45-day forecast of daily geomagnetic Ap index and solar radio flux F10.7
https://services.swpc.noaa.gov/json/45-day-forecast.json

NOAA Space Weather Prediction Center — 10 cm Solar Radio Flux
https://services.swpc.noaa.gov/products/summary/10cm-flux.json

NOAA Space Weather Prediction Center và U.S. Air Force — Solar and Geophysical Activity Summary
https://services.swpc.noaa.gov/text/sgas.txt

NOAA Space Weather Prediction Center — Daily Solar Data
https://services.swpc.noaa.gov/text/daily-solar-indices.txt

Spaceweather.com — Space Weather Time Machine — November 1, 2026
https://www.spaceweather.com/archive.php?day=01&month=11&view=view&year=2026

NOAA Space Weather Prediction Center — NOAA Planetary K-index
https://services.swpc.noaa.gov/products/noaa-planetary-k-index.json

NOAA Space Weather Prediction Center — Station K and A Indices
https://spaceweather.gov/products/station-k-and-indices

NOAA Space Weather Prediction Center / National Weather Service — Daily Space Weather Summary and Forecast
https://forecast.weather.gov/product.php?format=txt&glossary=0&issuedby=DSF&product=DAY&site=TOP&version=1

GFZ Helmholtz Centre for Geosciences — Geomagnetic Planetary Indices: November 2026 nowcast
https://kp.gfz.de/app/files/qlyymm.html

National Weather Service / NOAA — Routine Space Environment Product (Daily)
https://forecast.weather.gov/product.php?format=txt&glossary=0&issuedby=IND&product=DAY&site=HNL&version=2

NOAA Space Weather Prediction Center — 3-Day Forecast
https://www.swpc.noaa.gov/products/3-day-forecast

NOAA Space Weather Prediction Center — 10 cm solar radio flux 30-day feed
https://services.swpc.noaa.gov/products/10cm-flux-30-day.json

National Weather Service — Weekly Space Weather Outlook product
https://forecast.weather.gov/product.php?format=CI&glossary=0&issuedby=OUT&product=WEK&site=NWS&version=1