

NOUS41 KWBC 071530  
PNSWSH

Service Change Notice 24-14  
National Weather Service Headquarters Silver Spring MD  
1030 AM EST Wed Feb 7 2024

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

From:         Ajay Mehta, Director  
              NWS Office of Observations

Subject: Metop-C NUCAPS Soundings to be Added to the Satellite Broadcast Network on or near March 8, 2024

On or near March 8, 2024, NOAA-Unique Combined Atmospheric Processing System (NUCAPS) soundings from the European Metop-C polar-orbiting satellite will be added to the Satellite Broadcast Network (SBN).

Metop-C NUCAPS soundings estimate atmospheric temperature and moisture, around the globe, about three hours before local solar noon and midnight in each location. They provide insight into the morning pre-convective environment, complementing the early-afternoon soundings of the NOAA-20 and NOAA-21 satellites.

Metop-C NUCAPS soundings will add 300 files/day (0.25GB/day) to the SBN. Each file (or "granule") spans about 1/34 of an orbit (3 minutes of time) and samples an area roughly 1,100km x 2,100km with a grid of 30x22 or 30x23 atmospheric soundings. These soundings estimate the following parameters at 100 vertical levels between the Earth's surface and the upper atmosphere:

Parameter	Units
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Air Pressure	mb
Air temperature	K
Liquid water mixing ratio	g/g
Water vapor mixing ratio	g/g
Ozone mixing ratio	ppb
Sulfur dioxide mixing ratio	ppb

The Metop-C NUCAPS data will be broadcast via the SBN NMC3 channel (Port 1205, PID 105) using the following nine World Meteorological Organization (WMO) header codes:

IUTN01 KNES	IUTN04 KNES	IUTN07 KNES
IUTN02 KNES	IUTN05 KNES	IUTN08 KNES
IUTN03 KNES	IUTN06 KNES	IUTN09 KNES

These codes correspond to the geographic regions previously detailed in Technical Implementation Notice (TIN) 14-03 for S-NPP NUCAPS (retired in 2021). They correspond to the geographic regions previously detailed in TIN 14-03 (<https://www.weather.gov/media/notification/tins/tin14-03nucaps.pdf>). They were previously used for S-NPP NUCAPS (retired in 2021).

Additional details on NUCAPS products from Metop-C and other satellites are available on the NOAA Virtual Laboratory (VLab) at:

<https://vlab.noaa.gov/web/towr-s/jpss-nucaps>.

Critical weather, enhanced caution, or other factors may affect the timing of this change.

For questions pertaining to these changes, please contact:

NOAA/NWS Office of Observations  
Silver Spring, MD  
Email: [nws-obs-satellites@noaa.gov](mailto:nws-obs-satellites@noaa.gov)

or

AWIPS Network Control Facility (NCF) Help Desk  
NOAA/NWS Office of Central Processing  
Silver Spring, MD  
Phone: 888-808-8624

For questions regarding the content or distribution of the products listed here, please contact:

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Google Voice: 240-622-5819

National Service Change Notices are online at:

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

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