

NOUS41 KWBC 101225  
PNSWSH

Service Change Notice 19-86  
National Weather Service Headquarters Silver Spring MD  
825 AM EDT Thu Oct 10 2019

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: Implementation of International Civil Aviation Organization Space  
Weather Advisory Products: Effective on or about November 7, 2019

Effective on or about November 7, 2019, the NWS Space Weather Prediction  
Center (SWPC) will begin disseminating new International Civil Aviation  
Organization (ICAO) mandated space weather advisory products.

In November 2018, ICAO selected SWPC as one of the three global space  
weather centers (SWXC) to monitor and provide advisory information on  
space weather phenomena. These phenomena include events that may affect  
high-frequency radio communications, communications via satellite, Global  
Navigation Satellite System (GNSS)-based navigation and surveillance  
systems and/or pose a radiation risk to aircraft occupants.

The new ICAO space weather advisories are produced as conditions warrant  
according to ICAO Annex 3. Once an advisory is issued, it will be updated  
at 6-hour intervals from the nearest hour after the advisory is issued  
until the space weather phenomena are no longer detected and/or are no  
longer expected to have an impact. The SWXCs will maintain a 24-hour  
watch and issue space weather advisories covering the entire Earth.

The ICAO space weather advisories will provide information and services  
required for safe and efficient aircraft operations that users can employ  
for decision-making. The intended use of the ICAO space weather  
advisories is to better prepare flight crews, operators, air navigation  
service providers, and civil aviation authorities when developing flight  
plans and operational procedures for managing flights in areas impacted by  
space weather events. Also, in terms of situational awareness, the space  
weather advisories need to be properly integrated into the existing docket  
of aviation considerations as prescribed actions, center requirements, and  
other functional necessities to address the deleterious impacts to  
aviation in the State's purview.

ICAO space weather advisory users include the NWS, Federal Aviation  
Administration (FAA), international civil aviation authorities, domestic  
and international commercial airlines and private companies.

More information about ICAO Space Weather advisories can be found in the Product Description Document (PDD) linked below:

[https://nws.weather.gov/products/PDD/PDD\\_NewSpaceWeatherAdvisoryProducts.pdf](https://nws.weather.gov/products/PDD/PDD_NewSpaceWeatherAdvisoryProducts.pdf)

Please provide any comments/feedback on the provision of the [mandated] ICAO Space Weather advisory products to:

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National Service Changes Notices are online at:

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

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