

NOUS41 KWBC 101225
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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

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>

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