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PNSWSH

Public Information Statement 19-32  
National Weather Service Headquarters Silver Spring MD  
XXX AM EDT Day Mon DD YYYY

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:      NWS is soliciting comments through May 15, 2020, on the  
              Proposed implementation of U.S. Meteorological Information  
              Exchange Model (IWXXM) data format to report aviation  
              Weather information

Later this year, the U.S. is proposing to introduce Aviation products in IWXXM format to meet a new requirement from the International Civilian Aviation Organization (ICAO). By November 2020, states are required by ICAO to provide IWXXM formatted aviation products in conjunction with the Traditional Alphanumeric Content (TAC). IWXXM products for aviation include eXtensible Markup Language (XML) based representations for products standardized in ICAO Annex 3 and World Meteorological Organization (WMO) No. 49, Volume II, to be used for machine-to-machine operational exchanges of meteorological information for use in aviation. NWS is soliciting comments through May 15, 2020.

NWS has extended the use of XML formatted data to other non-aviation operational NWS products, e.g., Common Alerting Protocol (CAP) messages.

When implemented, the WMO ID headers below identify products that users can access via the NWS Telecommunication Gateway (NWSTG) under WMO defined T1T2 (from TTAAii) for the following IWXXM data types:

Aviation Routine Report (METAR) LA  
Tropical Cyclone Advisory LK  
Space Weather Advisory LN  
Special Aviation Weather Reports (SPECI) LP  
Aviation General Warning (SIGMET) LS  
Aerodrome Forecast ("long" TAF) (VT >= 12 hours) LT  
Volcanic Ash Advisory LU  
Aviation Volcanic Ash Warning (VA SIGMET) LV  
AIRMET LW  
Aviation Tropical Cyclone Warning (TC SIGMET) LY

If approved, with appropriate user notification, NWS may extend the use of IWXXM/XML formatted data to other existing operational NWS products.

For examples of real-time US Terminal Aerodrome (TAF) in IWXXM version 2.1 go to the following link.  
<https://tgftp.nws.noaa.gov/data/raw/lt/>

The TAF and the Tropical Cyclone Advisory will be the first two aviation products available from the Washington OPMET databank and the WAFC Internet File Service (WIFS) later this year.

More information about IWXXM files can be found in the Product Description Document (PDD) linked below:  
[https://nws.weather.gov/products/PDD/PDD\\_IWXXM.pdf](https://nws.weather.gov/products/PDD/PDD_IWXXM.pdf)

The NWS is accepting comments through May 15, 2020, on the provision of aviation and other existing operational NWS products in IWXXM format.

Please send questions or comments to:

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National Public Information Statements are available online at:  
<https://www.weather.gov/notification/>

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