



NASA Community Integration Working Group

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NWS AFS24
Avn & Space Wx Svcs



NWS and UAM



No direct research tied to UAM weather

- AWC Summer Experiments: UKMO @ 300m over SF Bay
- NAM FireWx nest @ 1.5km
- Warn-on Forecast, [FACETS](#)



Model upgrades planned into 2025

- GFSv16, Q2 FY21 (PNS20-44) and GFSv17, Q2FY24→projected 9km, coupled with GEFSSv13
- RRFSSv1, Q2 FY23 and RRFSSv2, Q2 FY24→”3km or higher as resources permit” (V.Tallapragada, 7/16/2020)

XML is data standard / machine language of choice beginning Nov 2020, mandatory by Nov 2026

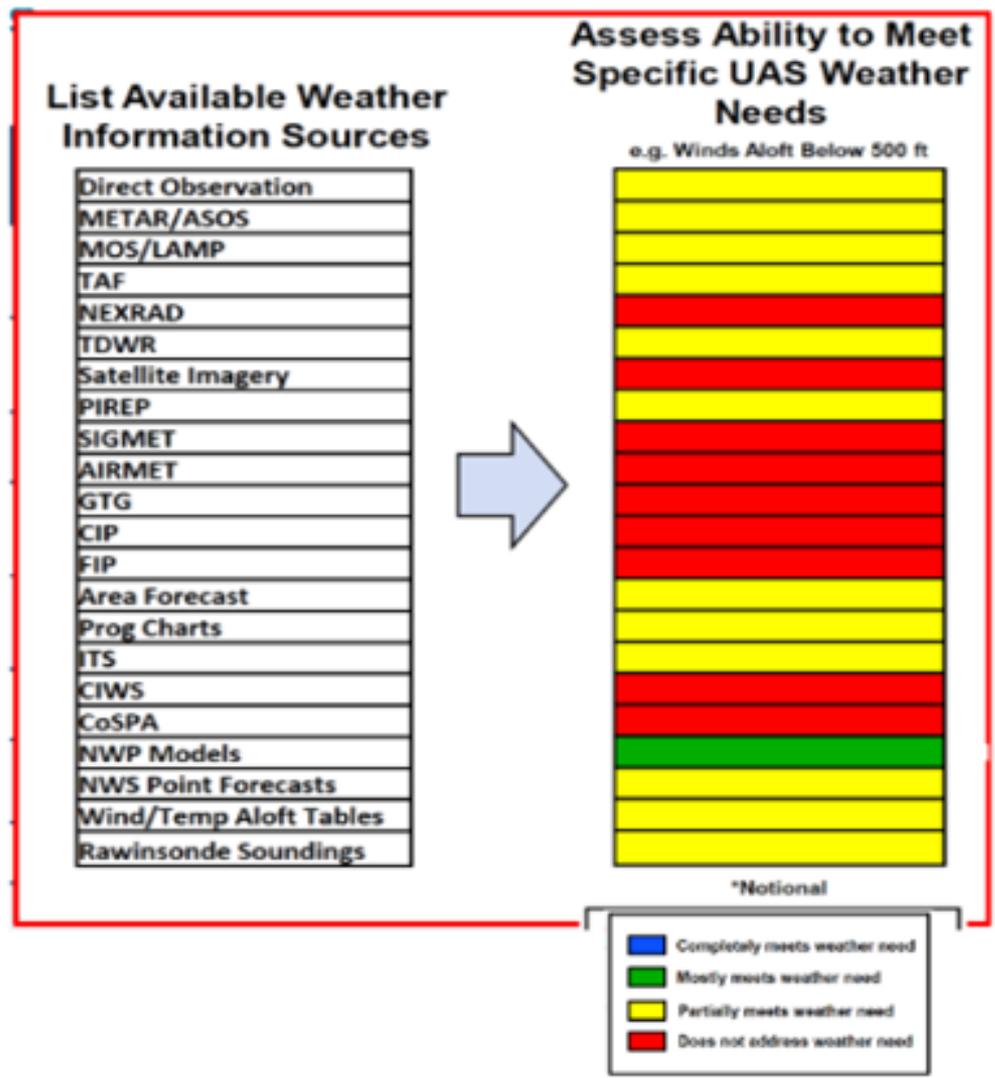
- ICAO Meteorological Information Exchange Model (IWXXM)
- USWX schema for non-ICAO Annex 3 domestic aviation weather messages

```

<?xml version="1.0" encoding="UTF-8" ?>
<Message xmlns="urn:icao:met:msg:001" type="Text" id="1" >
  <Text id="1" >
    This is a test message.
  </Text>
</Message>
  
```



UAM/UTM Wx Problem



1km probably as small as NWS goes in short-to mid-term

Vertical resolution

New model / post processed output variables?

Real-time data sharing and access