

Network of Network Efforts

AMS Forum on Observing
the Environment from the
Ground Up

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1

Office of the Federal Coordinator for Meteorology

To ensure the effective use of Federal
meteorological resources by
encouraging and facilitating the
systematic coordination of operational
weather services and supporting
research among the Federal agencies.

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2

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3

Approximate Federal Spending on Meteorological Operations and Supporting Research

Agency	President's FY16 Budget (\$M)
DOC (NOAA)	3,711
NASA	618
DOT	376
DoD	295
NSF	136
USDA	75
DOI	72
DHS	30
EPA	7
DOS	3
NRC	2
DOE	?
TOTAL	5,325

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Origins of the Initiative



OFCM Committee for Integrated Observing Systems:

- Considered all recommendations
- Focused on recommendations related to metadata.
- Sub-group met with AMS sub-group to insure consistent solution.

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5

Metadata Recommendation

ISO 19115 and 19115-2: Content standard for environmental data

ISO 19139: Presentation standard (xml)

Sensor Model Language (SML): OGC process and instrument description standard

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6

Metadata Recommendation



Interagency committee that **promotes** the coordinated **development, use, sharing, and dissemination** of **geospatial data** on a national basis.

Other Related Initiatives

- National Mesonet
- Meteorological Assimilation Data Ingest System (MADIS)
- NOAA Data Documentation Procedural Directive (NOAA EDMC)

ICAO* Weather Data Initiative

- Convert key aviation-related weather messages from current “Traditional Alphanumeric Code” (TAC) to xml-based code form.
- Includes METAR/SPECI (surface weather observations)

*International Civil Aviation Organization

Example METAR

```
METAR YUDO 221630Z 24004MPS
0600 R12/1000U DZ FG SCT010
OVC020 17/16 Q1018
```

Example METAR

TAC { METAR YUDO 221630Z 24004MPS
0600 R12/1000U DZ FG SCT010
OVC020 17/16 Q1018

xml {
<?xml version="1.0" encoding="UTF-8" ?>
<METAR xmlns="http://www.noaa.gov/xml/metar/1.0" YUDO 221630Z 24004MPS
0600 R12/1000U DZ FG SCT010 OVC020 17/16 Q1018 />

Looking Forward in the Federal Weather Enterprise

- Things are moving forward
- We’re working to coordinate
- But...

Looking to the Future in the Federal Weather Enterprise

- Things are moving forward
- We're working to coordinate
- But...



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13