

# **WIS metadata for NWP products**

TT-ApMD-2 Doc 3.8(1)  
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# What we do

From: DCPC/RSMC-Geographical Tokyo

Form: both pictorial (fax) and GRIBs

this time I'd talk about GRIB 1 for simplicity

Media: GTS bulletins and Internet download

this time I'd talk about bulletins

# Granularity!

74% of current VolC1 are GRIBs  
97000 different "TTAAii CCCC"

Dozens of "dataset" from a handful centres  
(in ordinary sense of data manager)

# AHL granularity

not very useful

thousands of very similar records

needed for GISC cache management

# Possible solution: hierarchy

Higher level

JMA GSM 2.5 deg Northern Hemisphere

jp.go.jma.dcpc-geogr::

↑ parentIdentifier

Lower level

HTXA98 RJTD

and 1000 similar ones

int.wmo.wis::

# Metadata elements needed

Parameter [T2]

Vertical level [ii]

Geographical area [A1] → bounding box

Forecast time [A2]

(Reference datetime)

Horizontal resolution

Identification of model run

model name, ensemble part, ...

# **Proposal: parameter**

**keyword: "geopotential height"**

**keyword type: theme**

**thesaurus:**

**title: "Code Table 4.2, FM92 GRIB Edition 2, WMO Manual on Codes"**

**date: "2013-05-08" (last amendment)**

**date type: publication**

# **Proposal: vertical level**

**keyword: "Cloud base level"**

**keyword type: stratum**

**thesaurus:**

**title: "Code Table 4.5, FM92 GRIB Edition 2, WMO Manual on Codes"**

**date: "2013-05-08" (last amendment)**

**date type: publication**

# **Proposal: vertical level (w/number)**

**keyword: "Isobaric surface"**

**keyword: "300 hPa"**

**keyword type: stratum**

**thesaurus:**

**title: "Code Table 4.5, FM92 GRIB Edition 2, WMO Manual on Codes"**

**date: "2013-05-08" (last amendment)**

**date type: publication**

# **Proposal: forecast time**

keyword: **"12 hour forecast"**

keyword type: **temporal**

thesaurus:

title: **"forecast time"**

# **Proposal: forecast time (range)**

**keyword: "12 to 24 hour forecast"**

**keyword type: temporal**

**thesaurus:**

**title: "forecast time"**

# Proposal: resolution

keyword: "2.5x2.5 degree grid"

keyword type: place

thesaurus:

title: "horizontal resolution"

(note: spatialResolution is alternative)

# Proposal: model run identification

keyword: "JMA Weeklong EPS"

keyword: "Ensemble Mean"

keyword type: **theme**

thesaurus:

title: "model run"

(abstract or title should also have info)

# Key messages

## 1. Granularity:

not happy with bulletin level  
but I know it's necessary for now  
hope future improvement is allowed

## 2. Metadata content:

some more info is necessary  
more than synoptic metadata  
otherwise many identical records but for id