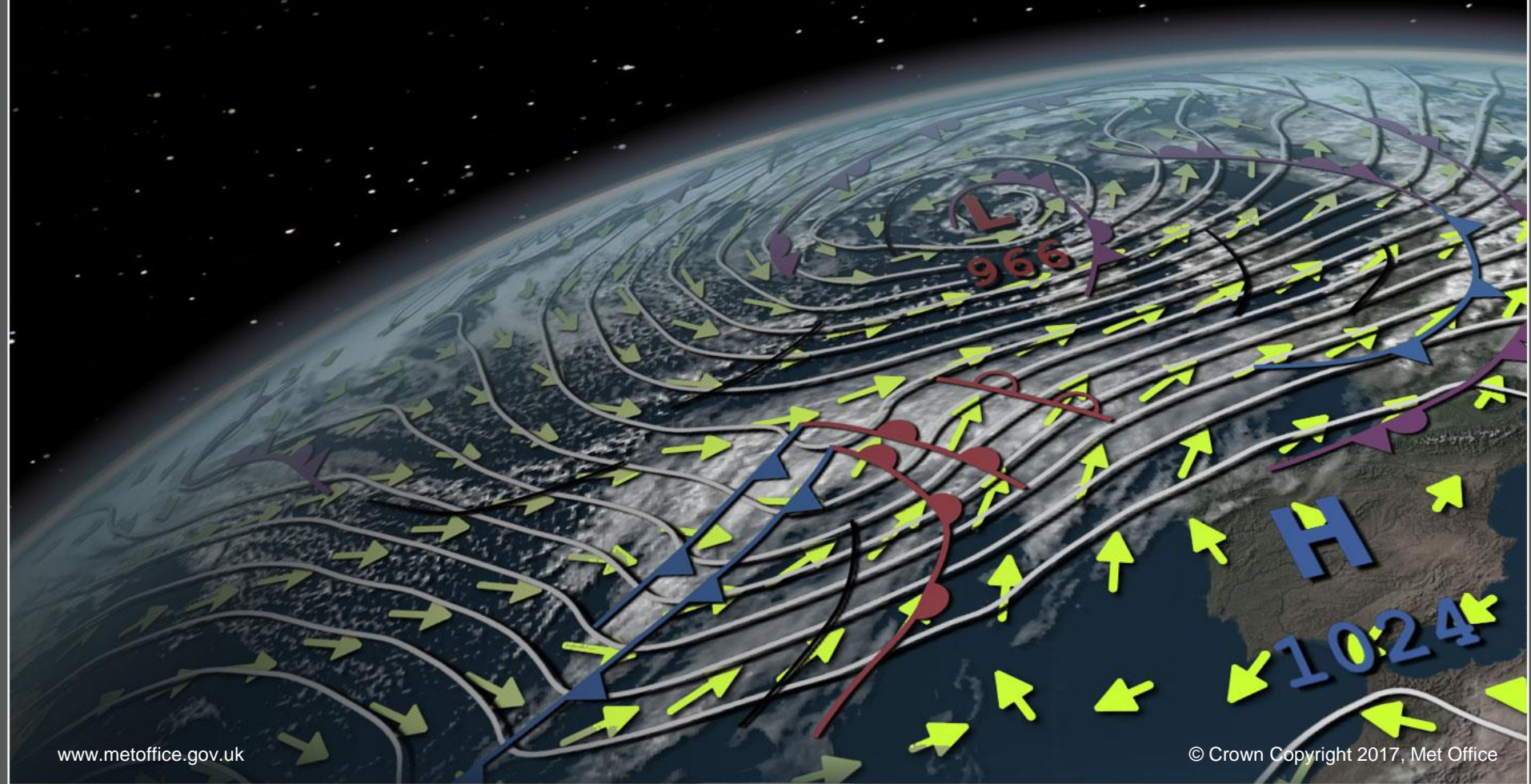


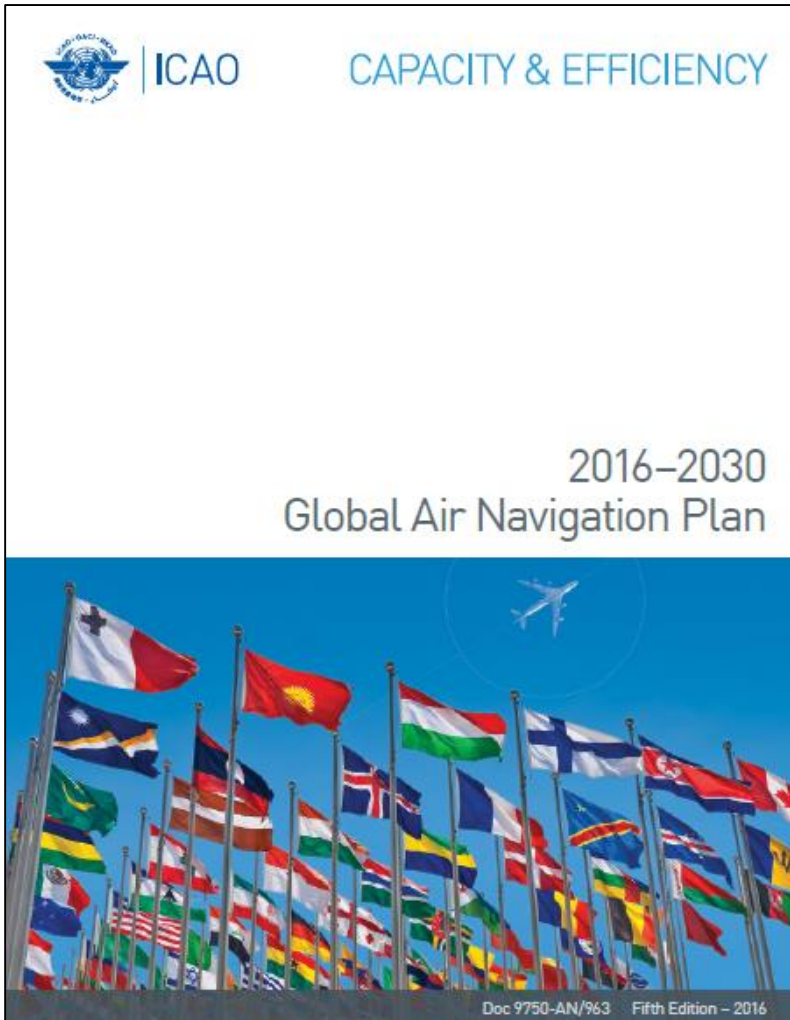


Possible upcoming WAFS developments

Karen Shorey



Why change



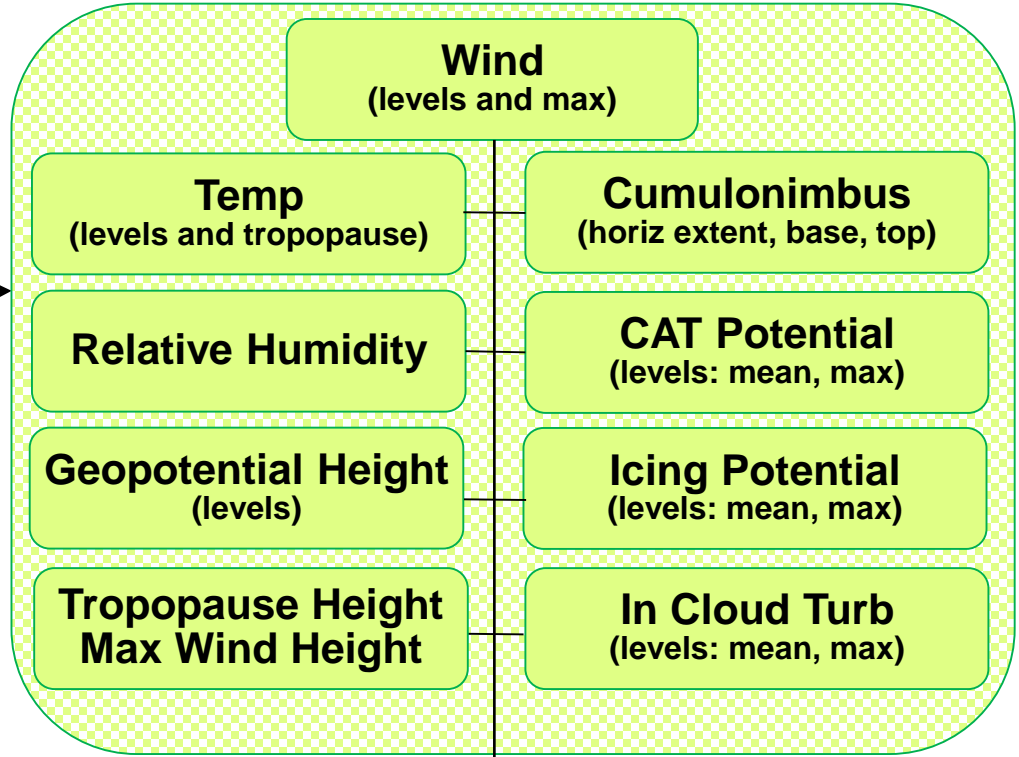
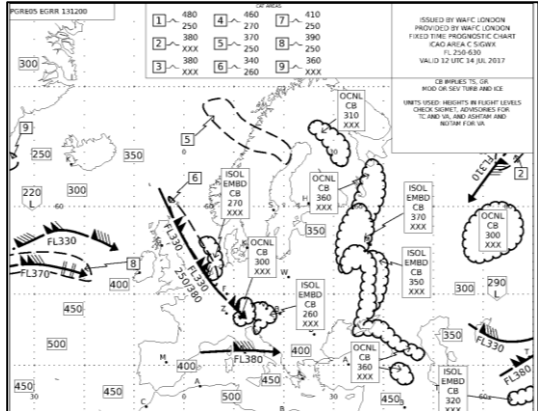
- ASBU
- To provide higher meteorological data at appropriate resolution and frequency to support the block upgrades
- To provide data in the format required to support interoperable systems (IWXXM)

Reference documents:

- METP WG/MOG/4 SN25 – WAFS Mid Term Plan
- METP WG/MOG/4 SN26 – Auto SIGWX Forecasts
- METP WG/MIE various documents.

WAFS Now

UK/US Model



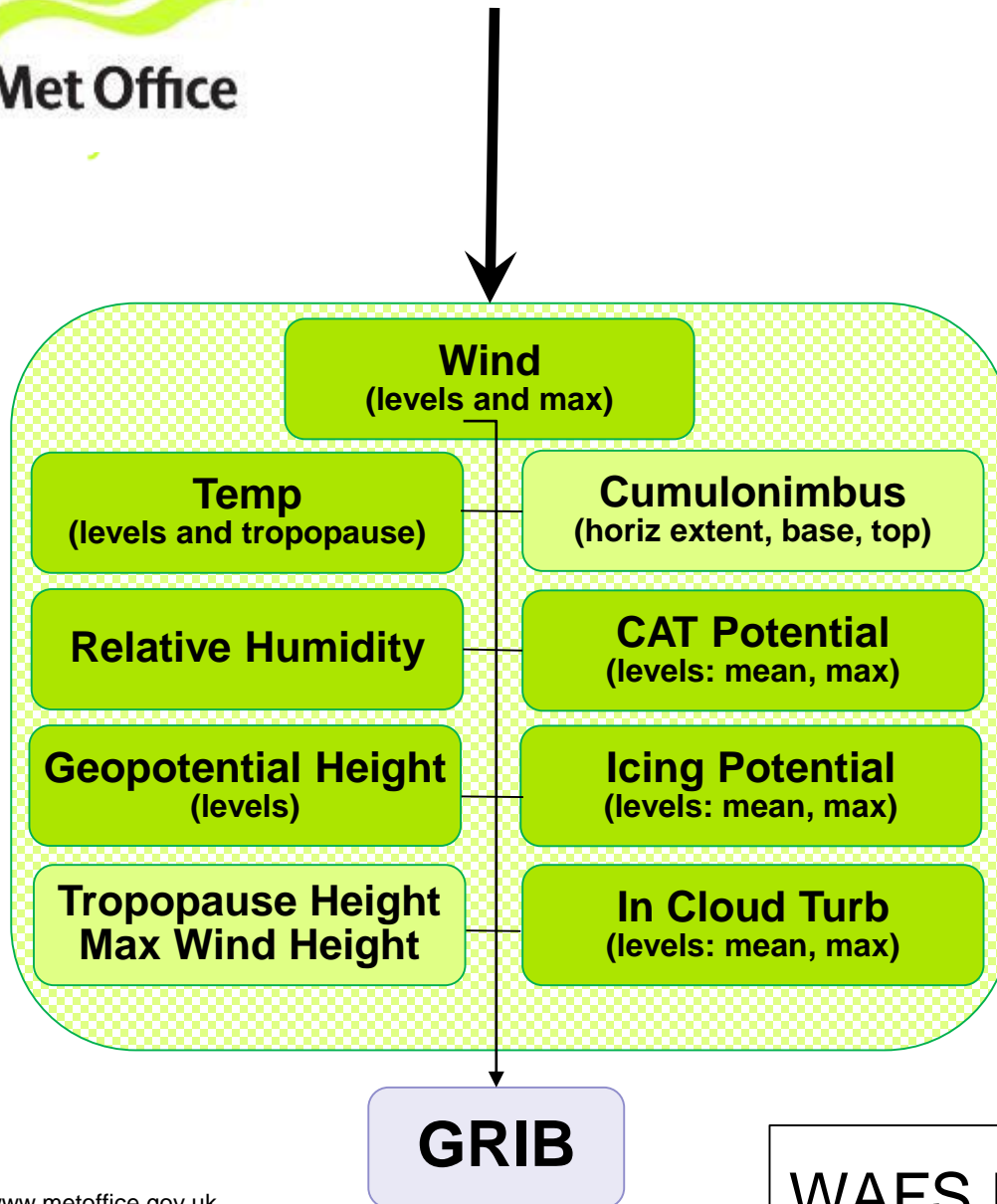
SIGWX
BUFR

GRIB

SADIS

users

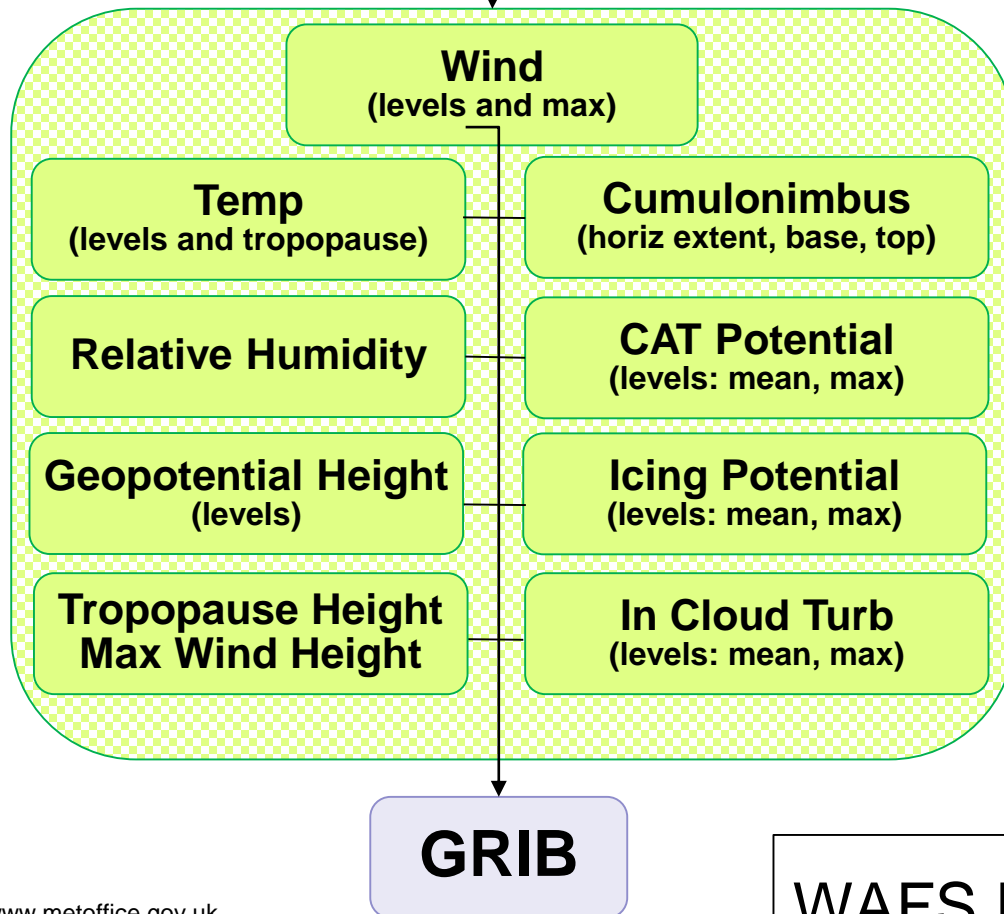
UK/US Model



General GRIB improvements:

- horizontal resolution increase from 1.25° to 0.25°
- ↑ vertical levels available
- ↑ temporal resolution:
 - hourly timesteps T+6 to T+18
 - 3hrly timesteps T+18 to T+48
 - 6hrly timesteps T+54 to T+120
- Retire redundant data (Tropopause Height and Max Wind Height)

UK/US Model

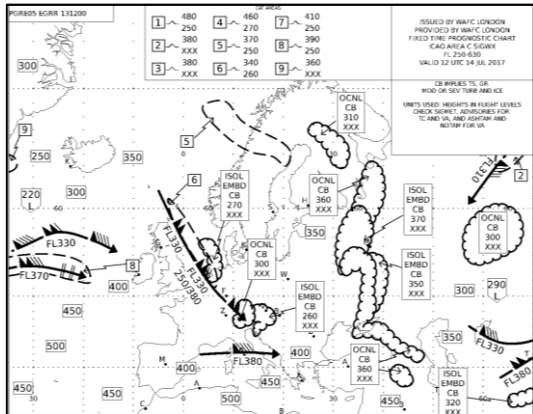


Better Algorithms:

- From “potential” to probability
 - Cumulonimbus
 - Icing
- Turbulence:
 - Eddy Dissipation Rate
 - GTG
 - 4 model “ensemble” probabilistic output.



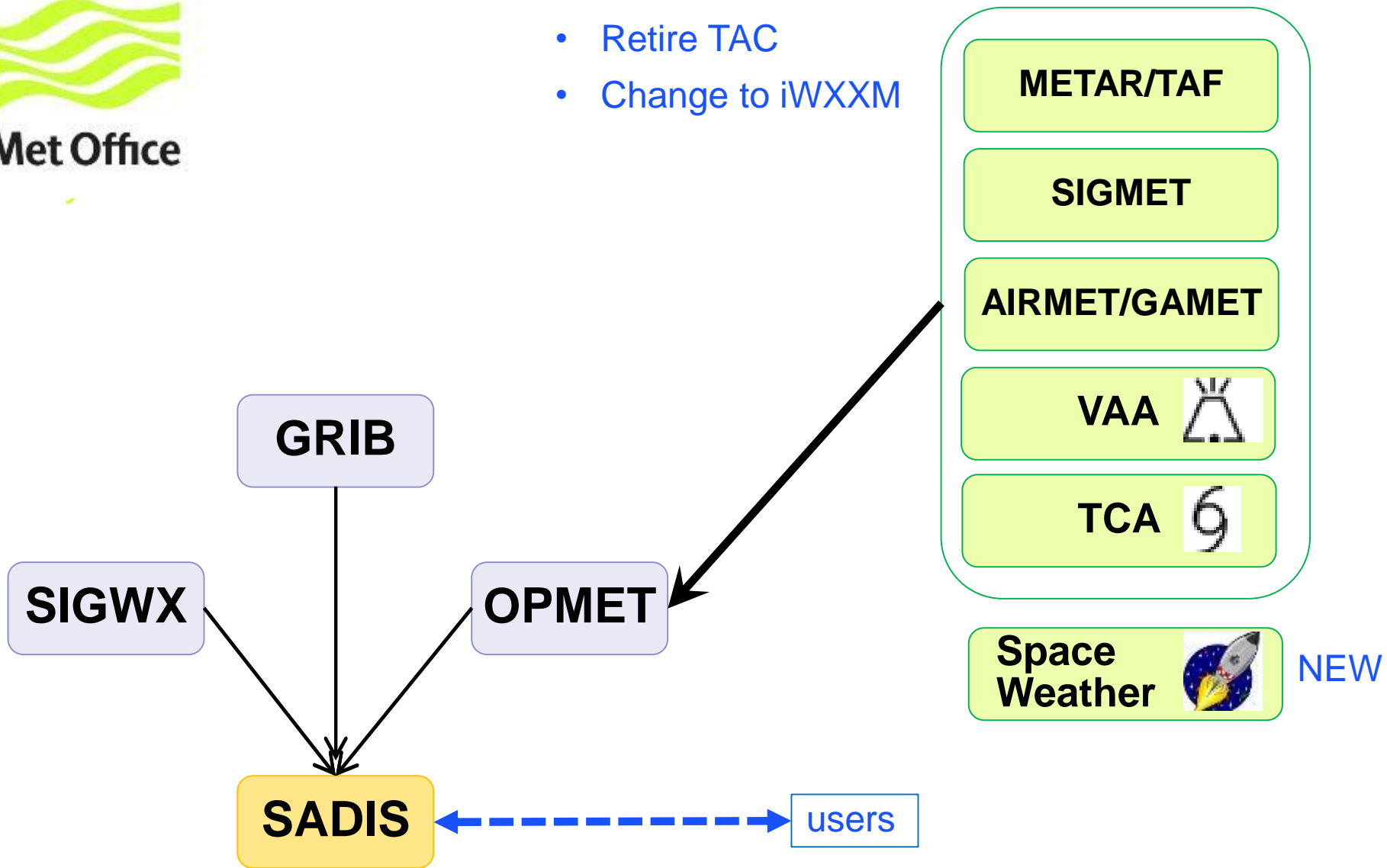
UK/US Model



SIGWX

- Automate production process (eventually)
- Also Issue T+6, T+12, T+18, T+30 and T+36 charts 4x daily
- Retire BUFR format and png charts
- Change to XML/GML format

- Retire TAC
- Change to iWXXM

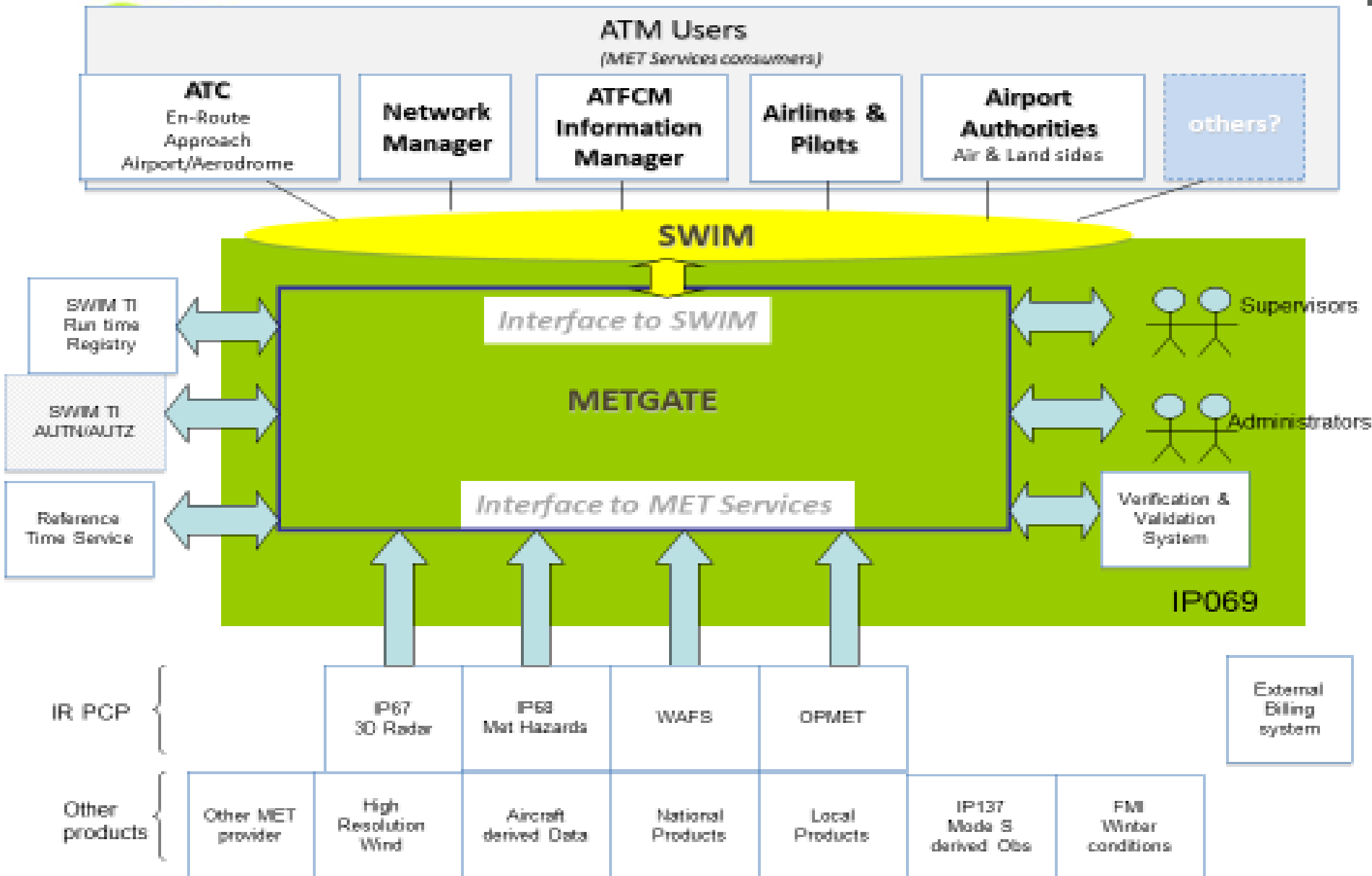




METAR LXGB 271150Z 06013KT 9000 HZ
FEW010 SCT018 BKN030 22/20 Q1020
TEMPO FEW010 SCT025=

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  xmlns:saf="http://icao.int/saf/1.0"
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Look out for....

- A more detailed proposal will be presented by both WAFC's at MOG/6 in April 2018.



Met Office

