## Specifications (as of 31 December 2020) – an excerpt from the Joint WMO Technical Progress Report on the Global Data Processing and Forecasting System and Numerical Weather Prediction Research Activities for 2020

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00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22 and 23 UTC
The three-hour analysis cycle repeats hourly assimilation with 3D-Var and one-hour forecasts.
30 minutes for analysis at 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22 and 23 UTC
Initial fields produced by the latest MSM
Japan and its surrounding area
Lambert projection; 5 km at 60°N and 30°N, 633 × 521
Grid point (1, 1) is at the northwest corner of the domain.
Grid point (449, 361) is at 140°E, 30°N
z-z* hybrid
48 levels up to 22 km
Wind, potential temperature, surface pressure, pseudo-relative humidity,
skin temperature, ground temperature and soil moisture
SYNOP, SHIP, BUOY, AMeDAS, TEMP, PILOT, Wind Profiler, Weather
Doppler radar (radial velocity, reflectivity), AIREP, AMDAR; AMVs from
Himawari-8; radiances from NOAA-15, 18, 19/ATOVS, Metop-A, B/ATOVS,
Aqua/AMSU-A, DMSP-F17, 18/SSMIS, GCOM-W/AMSR2, GPM-core/GMI,
WV-CSRs of Himawari-8; soil moisture from GCOM-W/AMSR2, Metop-A
B/ASCAT; total precipitable water vapor from ground-based GNSS
https://www.jma.go.jp/jma/jma-eng/jma-center/nwp/nwp-top.htm

## Local Analysis specifications