

Local Analysis specifications

Analysis cycle	The three-hour analysis cycle repeats hourly assimilation with 3D-Var and one-hour forecasts.
Data cut-off time	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
Observation (as of 31 August 2018)	SYNOP, SHIP, BUOY, AMeDAS, TEMP, PILOT, Wind Profiler, Weather Doppler radar (radial velocity, reflectivity), AIREP, AMDAR, AMVs from Himawari-8 and Total Precipitable Water Vapor from ground-based GNSS, 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-CSR of Himawari-8, soil moisture from GCOM-W/AMSR2 and Metop-A B/ASCAT
First guess	Initial fields produced by the latest MSM
Domain configuration	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
Vertical levels	48 levels up to 22 km
Analysis variables	Wind, potential temperature, surface pressure, pseudo-relative humidity, skin temperature, ground temperature, soil moisture