Conventional observations used

SYNOP/METAR/SHIP: MSL Pressure, 10m-wind, 2m-Rel.Hum.

DRIBU: MSL Pressure, Wind-10m

Radiosonde balloons (TEMP): Wind, Temperature, Spec. Humidity

PILOT/Profilers: Wind

Aircraft: Wind, Temperature

Note: We only use a limited number of the observed variables; especially over land.
Satellite data sources used in the operational ECMWF analysis

13 Sounders: NOAA AMSU-A/B, HIRS, AIRS, IASI, MHS

5 imagers: 3xSSM/I, AMSR-E, TMI

3 Scatterometer sea winds: ERS, ASCAT, QuikSCAT

Geostationary, 4 IR and 5 winds

2 Polar, winds: MODIS

4 ozone

6 GPS radio occultation