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The presentation comprises 3 parts:

- i) The changes in the analysis and the upper-tropospheric lower-stratospheric forecast errors of the ECMWF Integrated Forecast System (IFS) are discussed in relation to the recent resolution increase to T799 91 levels
- ii) Sensitivities of the forecast/analysis to changes in the entrainment in the convection scheme are presented and set in relation to the representation of the MJO , QBO etc.
- iii) Discuss typical model/analysis errors with respect to radiosonde and satellite observations and discuss the quality of the observations