

Operational dissemination of IASI data using principle component compression

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In response to the request of its users to revisit the dissemination strategy for IASI data, EUMETSAT plans to begin the dissemination of level 1 data (spectra) using principal component compression. The principal component scores will be calculated using a robust training set, and disseminated in near real time both globally via the GTS and via EUMETSAT's DVBS multicast system, EUMETCast. The data will be encoded in BUFR and will comprise around 180 principal component scores per spectrum. Several technical issues are currently being addressed, such as the possible prior separation of the spectra into distinct bands, the distribution of the residuals and the exact number of scores to be used.