

New noise estimate used for normalisation \rightarrow Reduced spatial correlation of the residuals



IASI Principal Component Compression (PCC)

Adding outliers to training set -> Capture rare spectral features in truncated eigenvector space

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Separate statistics for each of the four detectors are presented for both the PC scores and the residuals





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The first qualitative results indicates that PC compression is able to retain the trace gas signals in the reconstructed radiances.

More detailed and quantitative studies into trace gas retrievals using reconstructed radiances are recommended.



Ammonia signal near Lake Baikal, 18 April 2008 (Reconstructed radiances)

