

Publications

On this page, you will find publications of the RMIB GERB Team in peer-reviewed journals.

In Press

2017

-  M. Urbain, N. Clerbaux, A. Ipe, F. Tornow, R. Hollmann, E. Baudrez, A. Velazquez Blazquez, J. Moreels (2017): The CM SAF TOA Radiation Data Record Using MVIRI and SEVIRI, *Remote Sens.*, 9, 466.

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-  I. Decoster, N. Clerbaux, E. Baudrez, S. Dewitte, A. Ipe, S. Nevens, A. Velazquez-Blazquez, J. Cornelis (2014): Spectral Aging Model Applied to Meteosat First Generation Visible Band, *Remote Sens.*, 6, 2534-2571.
-  I. Decoster (2014): Spectral ageing model for the Meteosat First Generation visible band, *PhD thesis at Vrije Universiteit Brussel*.

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-  I. Decoster, N. Clerbaux, E. Baudrez, S. Dewitte, A. Ipe, S. Nevens, A. Velazquez-Blazquez, J. Cornelis (2013): A Spectral Aging Model for the Meteosat-7 Visible Band, *Journal of Atmospheric and Oceanic Technology*, 30(3), 496-509.
-  I. Decoster, N. Clerbaux, Y. Govaerts, E. Baudrez, S. A. Ipe, S. Dewitte, S. Nevens, A. Velazquez-Blazquez, J. Cornelis (2013): Evidence of pre-launch characterization problem of Meteosat-7 visible spectral response, *Remote Sensing Letters*, 4(10), 1008-1017.

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-  S. Dewitte, N. Clerbaux, A. Ipe, A. Velazquez, E. Baudrez, S. Nevens, I. Decoster (2012): Climate monitoring with Earth radiation budget measurements, *AIP Conf. Proc.* 1531, 612; doi: 10.1063/1.4804844.

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The climate monitoring SAF TOA radiation "GERB" datasets, *AIP Conf. Proc.* **1531**, 652 (2013);
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-  A. Ipe (2011):
Cloud properties retrieval for climate studies from geostationary orbit, *PhD thesis at Vrije Universiteit Brussel*.
- W. Greuell, E. van Meijgaard, N. Clerbaux, J.-F. Meirink (2011):
Evaluation of model-predicted top-of-atmosphere radiation and cloud parameters over Africa with observations from GERB and SEVIRI. *Journal of Climate*, **24**(15), 4015-4036.

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-  B. De Paepe, S. Dewitte (2009):
Dust aerosol optical depth retrieval over desert surface, using the SEVIRI window channels, *Journal of Atmospheric and Oceanic Technology*, **26**, 704-718.
-  N. Clerbaux, J.E. Russell, S. Dewitte, C. Bertrand, D. Caprion, B. De Paepe, L. Gonzalez Sotelino, A. Ipe, R. Bantges, H.E. Brindley (2009):
Comparison of GERB instantaneous radiance and flux products 2 with CERES Edition-2 data, *Remote Sensing of Environment*, **113**, 102-114.

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-  B. De Paepe, A. Ignatov, A. Ipe, S. Dewitte (2008):
Aerosol retrieval over ocean from SEVIRI for the use in GERB's Earth radiation budget analysis, *Remote Sensing of Environment*, **112**, 2455-2468.
-  C. Bertrand, L. Gonzalez, A. Ipe, N. Clerbaux, S. Dewitte (2008):
Improvement in the GERB short wave flux estimations over snow covered surfaces, *Advances in Space Research*, **41**(7), 1894-1905.
-  N. Clerbaux (2008):
Processing of Geostationary Observations for Earth Radiation Budget Studies, *PhD thesis at Vrije Universiteit Brussel*.
-  N. Clerbaux, S. Dewitte, C. Bertrand, D. Caprion, B. De Paepe, L. Gonzalez, A. Ipe, J.E. Russell and H. Brindley (2008):
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-  C. Bertrand, J. Futyan, A. Ipe, L. Gonzalez, N. Clerbaux (2006): Diurnal Asymmetry in the GERB SW fluxes, *IEEE Transactions on Geoscience and Remote Sensing*, **44(12)**, 3585-3600, [doi:10.1109/TGRS.2006.881119](https://doi.org/10.1109/TGRS.2006.881119).
-  C. Bertrand, N. Clerbaux, A. Ipe, S. Dewitte, L. Gonzalez (2006): Angular distribution models anisotropic correction factors and sun glint: a sensitivity study, *International Journal of Remote Sensing*, **27(9)**, 1741-1757, [doi:10.1080/01431160500107015](https://doi.org/10.1080/01431160500107015).

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-  J.E. Harries et al. (2005): The Geostationary Earth Radiation Budget Project, *Bulletin of American Meteorological Society*, **86(7)**, 945-960, [doi:10.1175/BAMS-86-7-945](https://doi.org/10.1175/BAMS-86-7-945).
-  C. Bertrand, N. Clerbaux, A. Ipe, S. Dewitte, L. Gonzalez (2005): Angular Distribution Models, Anisotropic Correction Factors, and Mixed Clear-Scene Types: A Sensitivity Study, *IEEE Transactions on Geoscience and Remote Sensing*, **43(1)**, 92-102, [doi:10.1109/TGRS.2004.83836](https://doi.org/10.1109/TGRS.2004.83836).
- J.M. Haywood, R.P. Allan, I. Culverwell, T. Slingo, S. Milton, J. Edwards, N. Clerbaux (2005): Can desert dust explain the outgoing longwave radiation anomaly over the Sahara during July 2003?. *Journal of Geophysical Research: Atmospheres*, **110(D5)**, 1984-2012.

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-  C. Bertrand, A. Royer (2004): Aerosol optical depth spatio-temporal characterization over the Canadian BOREAS domain, *International Journal of Remote Sensing*, **25(15)**, 2903-2917, [doi:10.1080/01431160310001632657](https://doi.org/10.1080/01431160310001632657).
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