



Publications



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

In Press



2021

-  T. Akkermans and N. Clerbaux (2021): Retrieval of Daily Mean Top-of-Atmosphere Reflected Solar Flux Using the Advanced Very High Resolution Radiometer (AVHRR) Instruments, *Remote Sensing*, 13(18), 3695; doi:10.3390/rs13183695
-  A. Payez, S. Dewitte, and N. Clerbaux (2021): Dual View on Clear-Sky Top-of-Atmosphere Albedos from Meteosat Second Generation Satellites, *Remote Sensing*, 13(9), 1655; doi:10.3390/rs13091655.


2020


-  T. Akkermans and N. Clerbaux (2020): Narrowband-to-Broadband Conversions for Top-of-Atmosphere Reflectance from the Advanced Very High Resolution Radiometer (AVHRR), *Remote Sensing*, 12(2), 305; doi:10.3390/rs12020305.
-  N. Clerbaux, T. Akkermans, E. Baudrez, A. Velazquez Blazquez, W. Moutier, J. Moreels and C. Aebi (2020): The Climate Monitoring SAF Outgoing Longwave Radiation from AVHRR, *Remote Sensing*, 12(2), 929; doi:10.3390/rs12060929.

2019




-  S. Dewitte, N. Clerbaux, J. Cornelis (2019): Decadal Changes of the Reflected Solar Radiation and the Earth Energy Imbalance, *Remote Sensing*, 11, 663; doi:10.3390/rs11060663.
-  W. Moutier, S J. Thomalla, S. Bernard, G. Wind, T J. Ryan-Keogh, M E. Smith, 2019. Evaluation of Chlorophyll-a and POC MODIS Aqua Products in the Southern Ocean, *Remote Sens*, 11(15), 1793; doi:10.3390/rs11151793.

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-  S. Dewitte and N. Clerbaux (2018): Decadal Changes of Earth's Outgoing Longwave Radiation, *Remote Sensing*, 10, 1539; doi:10.3390/rs10101539.

- Tornow, F., Barker, H.W., Blázquez, V., Domenech, C. and Fischer, J., 2018. EarthCARE's Broadband Radiometer: Uncertainties Associated with Cloudy Atmospheres. *Journal of Atmospheric and Oceanic Technology*, 35(11), pp.2201-2211.
-  L. Duforêt-Gaurier, D. Dessailly, W. Moutier, H. Loisel, 2018. Assessing the Impact of a Two-Layered Spherical Geometry of Phytoplankton Cells on the Bulk Backscattering Ratio of Marine Particulate Matter, *Appl. Sci.*, 8(12), 2689, doi: 10.3390/app8122689.



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-  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 Sensing*, 9, 466.
-  F. Tornow, N. Clerbaux, A. Ipe, U. Manon (2017): An improved method to estimate reference cloud-free images for the visible band of geostationary satellites, *International Journal of Remote Sensing*, 38(23), 7220-7241, doi:10.1080/01431161.2017.1372859.
-  S. Dewitte and N. Clerbaux (2017): Measurement of the Earth Radiation Budget at the Top of the Atmosphere — A Review, *Remote Sensing*, 9, 1143; doi:10.3390/rs9111143.



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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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-  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.
-  N. Clerbaux, E. Baudrez, I. Decoster, S. Dewitte, A. Ipe, S. Nevens, A. Velazquez Blazquez (2012): The climate monitoring SAF TOA radiation "GERB" datasets, *AIP Conf. Proc.* **1531**, 652 (2013); doi: 10.1063/1.4804854.




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-  A. Ipe (2011): Cloud properties retrieval for climate studies from geostationary orbit, *PhD thesis at Vrije Universiteit Brussel*.
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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.
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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.
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-  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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-  N. Clerbaux, S. Dewitte, C. Bertrand, D. Caprion, B. De Paepe, L. Gonzalez, A. Ipe and J.E. Russell (2008):
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-  J.E. Harries et al. (2005):
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-  C. Bertrand, N. Clerbaux, A. Ipe, S. Dewitte, L. Gonzalez (2005):
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