

Remote sensing of tropospheric aerosols from SEVIRI data

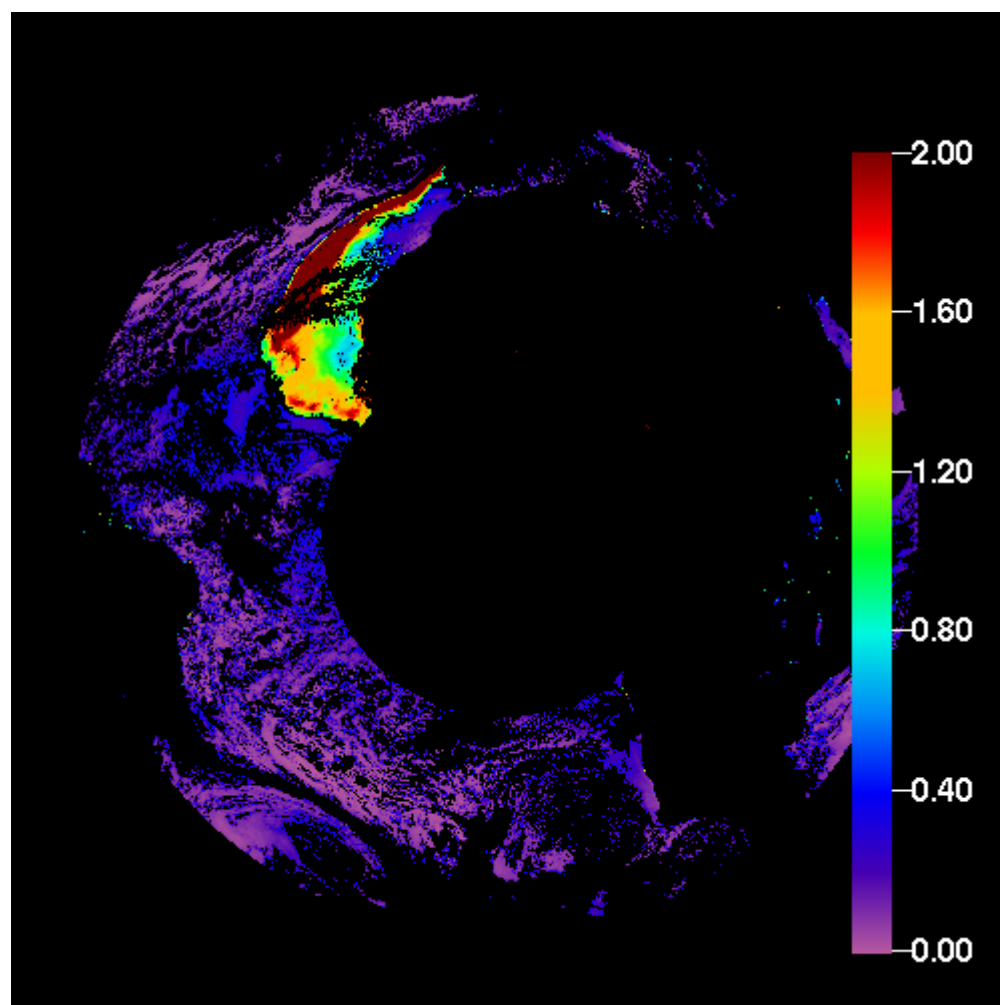
Introduction

At [RMIB](#), we study the direct radiative effect of aerosols on climate. We mainly use 2 instruments onboard MSG satellites: [SEVIRI](#) and [GERB](#). SEVIRI is the main radiometer that measures the reflected solar radiation and the emitted infrared radiation in 12 spectral bands. GERB makes broadband measurements in 2 channels in order to study the earth's energy budget. The optical properties of aerosols are retrieved using SEVIRI which are then related to the GERB measurements in terms of radiative forcing of the aerosols.

Meteosat-8 images

Ocean

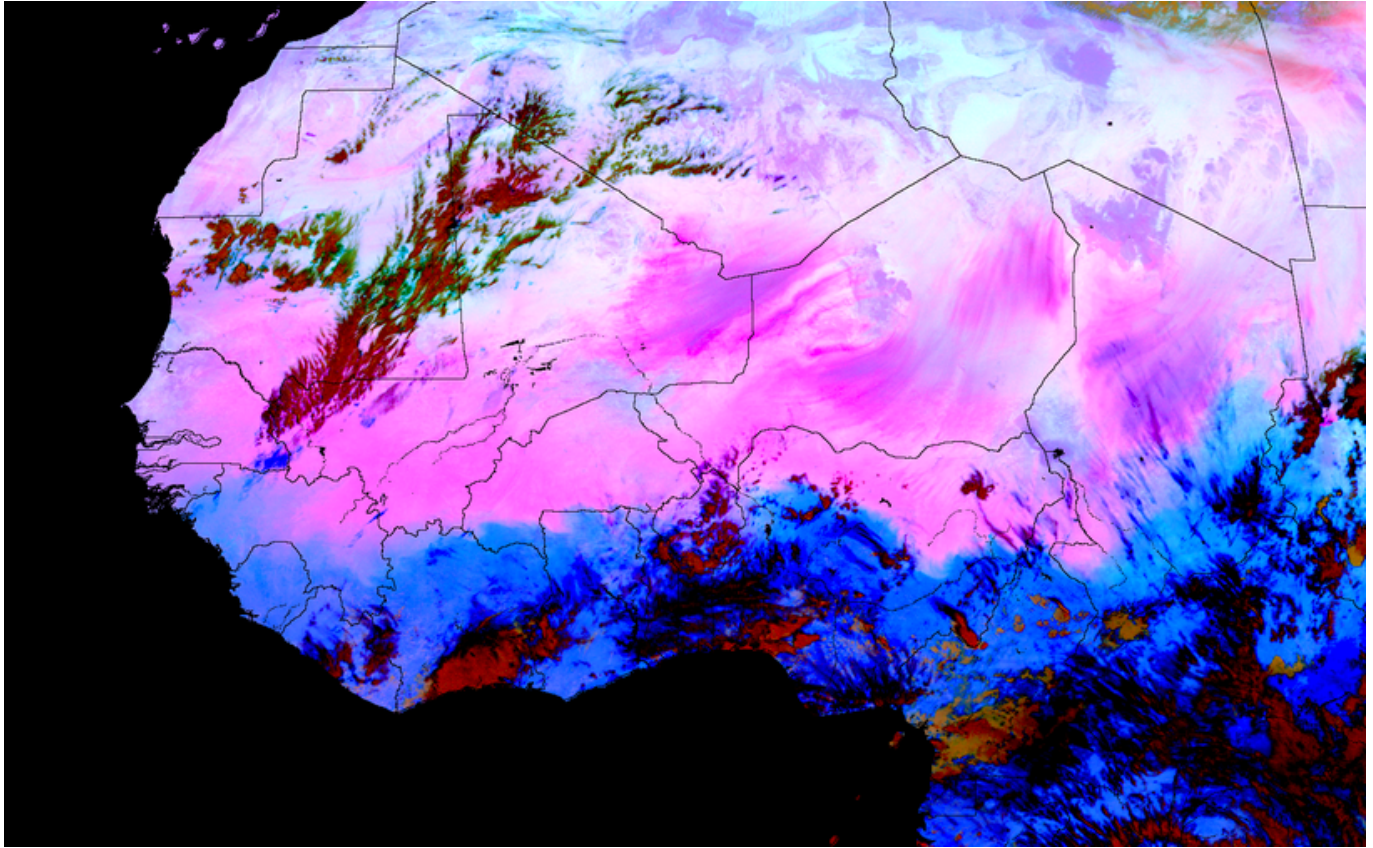
Click on the image for more information



Aerosol optical depth, 5 March 2004, SEVIRI 0.6 μ m

Land

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Dust storm over the Sahara, 8 March 2006, RGB (12.0 μ m - 10.8 μ m , 10.8 μ m - 8.7 μ m , 10.8 μ m)

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