Geophysical Research Abstracts
Vol. 12, EGU2010-3119, 2010
EGU General Assembly 2010

MSGView : A Training Tool for Processing, Analyzing and Visualization of MSG SEVIRI Data

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The SEVIRI instrument on the MSG satellite has been producing high-resolution spectral, spatial and temporal data. SEVIRI instrument provides wide opportunities with its 11 narrow band infrared and visible channels in addition to one broadband visible channel for the researchers and forecasters. The Channel Difference and RGB Applications based on the physical features of SEVIRI channels can provide better visualization about the characteristic of the meteorological phenomenon. The possible usages of these applications are detection of cold and warm air mass, convective system, Cb tops, fog, dust and fire.
MSGView software has been developed at Turkish State Meteorological Service and being operationally used since 2006 at the forecast centers. This software has capabilities to analyze process and display U-MARF HDF5 formatted MSG SEVIRI data and being used national, international and EUMETSAT's training workshops as computer lab. The software is distributed as free of charge to support to the young and free meteorologists. In this study, MSGView software will present as its capabilities to display channel difference, RGB applications, scatter plot diagrams and other features. Evaluations of training workshops indicates that MSGView is very good tool to make easy the interpretation of MSG images.