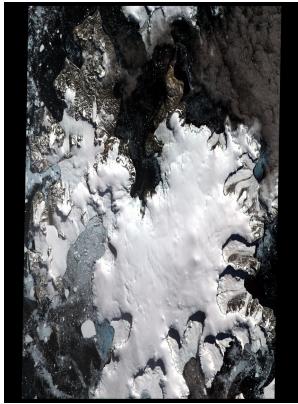


Automatic pattern recognition of meteorological satellite cloud photography

Rand Corporation - NWCSAF AVHRR Cloud Detection and Analysis Using Dynamic Thresholds and Radiative Transfer Modeling. Part I: Algorithm Description in: Journal of Applied Meteorology and Climatology Volume 44 Issue 1 (2005)



Description: -

- Astronautics in meteorology.
Pattern perception. Automatic pattern recognition of meteorological satellite cloud photography
- Research memorandum (Rand Corporation) -- RM-3412..
Research memorandum -- RM-3412 Automatic pattern recognition of meteorological satellite cloud photography
Notes: Includes bibliographical references.
This edition was published in 1964



Filesize: 40.103 MB

Tags: #Applications #of #the #Gray #Degree

A survey of threshold selection techniques

Visibility restoration from a single image without using any additional information is known as a filtering problem. Fifth Atmospheric and Space Environments Conf.

Automatic multithreshold selection

Meteosat Second Generation Cloud Physical Properties high-IWC mask.

OSA

Through the and ASAM projects, NGI has made use of very high resolution satellite imagery to automatically detect avalanche movements.

Applications of the Gray Degree

In a grouped threshold test, several of the features listed in are tested together. Values have been derived from cloud-free RTTOV-7 simulations on the TIGR database of 2311 radiosonde profiles using the spectral-response curves valid for NOAA-17.

Detecting Clouds Associated with Jet Engine Ice Crystal Icing in: Bulletin of the American Meteorological Society Volume 100 Issue 1 (2019)

Also, the distinction between subpixel water clouds and thin cirrus is ambiguous with the algorithms described here. In the present study, we propose a novel thin cloud removal method to estimate and remove the cloud background based on a cloud physical model, eliminate the transmission effect of clouds, and restore the color information under clouds using the proposed max-min radiation correction approach and an

adaptive brightness factor.

OSA

This is dramatically different from the approach applied in the current operational cloud classification SCANDIA and its related cloud schemes developed in the late 1980s, such as APOLLO, LUX, and CLAVR, which are more empirically tuned and regionally dependent.

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