

## Steve Ackerman

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The MODIS cloud products: Algorithms and examples from Terra S Platnick, MD King, SA Ackerman, WP Menzel, BA Baum, JC Riédi, IEEE Transactions on Geoscience and Remote Sensing 41 (2), 459-473	1273	2003
Discriminating clear sky from clouds with MODIS SA Ackerman, KI Strabala, WP Menzel, RA Frey, CC Moeller, LE Gumley Journal of Geophysical Research: Atmospheres 103 (D24), 32141-32157	1181	1998
Cloud and aerosol properties, precipitable water, and profiles of temperature and water vapor from MODIS MD King, WP Menzel, YJ Kaufman, D Tanré, BC Gao, S Platnick, IEEE Transactions on Geoscience and Remote Sensing 41 (2), 442-458	797	2003
The CALIPSO mission: A global 3D view of aerosols and clouds DM Winker, J Pelon, JA Coakley Jr, SA Ackerman, RJ Charlson, Bulletin of the American Meteorological Society 91 (9), 1211-1229	380	2010
Remote sensing aerosols using satellite infrared observations SA Ackerman Journal of Geophysical Research: Atmospheres 102 (D14), 17069-17079	308	1997
Cloud properties inferred from 8–12-µm data KI Strabala, SA Ackerman, WP Menzel Journal of Applied Meteorology 33 (2), 212-229	275	1994
Cloud detection with MODIS. Part II: validation SA Ackerman, RE Holz, R Frey, EW Eloranta, BC Maddux, M McGill Journal of Atmospheric and Oceanic Technology 25 (7), 1073-1086	265	2008
Cloud detection with MODIS. Part I: Improvements in the MODIS cloud mask for collection 5 RA Frey, SA Ackerman, Y Liu, KI Strabala, H Zhang, JR Key, X Wang Journal of Atmospheric and Oceanic Technology 25 (7), 1057-1072	240	2008
The 27–28 October 1986 FIRE IFO cirrus case study: Spectral properties of cirrus clouds in the 8–12 µm window SA Ackerman, WL Smith, HE Revercomb, JD Spinhirne Monthly Weather Review 118 (11), 2377-2388	210	1990
Discriminating clear-sky from cloud with MODIS algorithm theoretical basis document (MOD35 S Ackerman, K Strabala, P Menzel, R Frey, C Moeller, L Gumley MODIS Cloud Mask Team, Cooperative Institute for Meteorological Satellite	176	2010
A shortwave parameterization revised to improve cloud absorption GL Stephens, S Ackerman, EA Smith Journal of the Atmospheric Sciences 41 (4), 687-690	161	1984

TITLE	CITED BY	YEAR
Remote sensing of liquid water and ice cloud optical thickness and effective radius in the Arctic: Application of airborne multispectral MAS data MD King, S Platnick, P Yang, GT Arnold, MA Gray, JC Riedi, SA Ackerman, Journal of Atmospheric and Oceanic Technology 21 (6), 857-875	154	2004
State of the Climate in 2012 J Blunden, DS Arndt, C Achberger, SA Ackerman, A Albanil, P Alexander, Bulletin of the American Meteorological Society 94 (8), 1-238	153	2013
Global Moderate Resolution Imaging Spectroradiometer (MODIS) cloud detection and height evaluation using CALIOP RE Holz, SA Ackerman, FW Nagle, R Frey, S Dutcher, RE Kuehn, Journal of Geophysical Research: Atmospheres 113 (D8)	146	2008
Dissipation of marine stratiform clouds and collapse of the marine boundary layer due to the depletion of cloud condensation nuclei by clouds S Ackerman, OB Toon, PV Hobbs Science 262 (5131), 226-230	131	1993
Reconciling simulated and observed views of clouds: MODIS, ISCCP, and the limits of instrument simulators R Pincus, S Platnick, SA Ackerman, RS Hemler, RJ Patrick Hofmann Journal of Climate 25 (13), 4699-4720	126	2012
Using the radiative temperature difference at 3.7 and 11 µm to tract dust outbreaks SA Ackerman Remote Sensing of Environment 27 (2), 129-133	124	1989
The absorption of solar radiation by cloud droplets: an application of anomalous diffraction theory SA Ackerman, GL Stephens Journal of the atmospheric sciences 44 (12), 1574-1588	118	1987
Radiative effects of airborne dust on regional energy budgets at the top of the atmosphere SA Ackerman, H Chung Journal of Applied Meteorology 31 (2), 223-233	115	1992
Meteorology: understanding the atmosphere S Ackerman, JA Knox Cengage Learning	97	2006