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# AN AUTOMATED CLOUD-EDGE DETECTION ALGORITHM USING CLOUD PHYSICS AND RADAR DATA



An Automated Cloud-edge  
Detection Algorithm Using  
Cloud Physics and Radar Data

NASA Technical Reports Server  
(NTRS), et al., Jennifer G. Ward

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 22 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. An automated cloud edge detection algorithm was developed and extensively tested. The algorithm uses in-situ cloud physics data measured by a research aircraft coupled with ground-based weather radar measurements to determine whether the aircraft is in or out of cloud. Cloud edges are determined when the in/out state changes, subject to a hysteresis constraint. The hysteresis constraint prevents isolated transient cloud...

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