

Automatic detection of gust fronts

Hiroshi Uyeda



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Automatic Detection Of Gust Fronts

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Automatic Detection of Gust Fronts Hiroshi Uyeda,1985 **Airborne Wind Shear Detection and Warning Systems: Fourth Combined Manufacturers' and Technologists' Conference, Part 1** ,1992 **Aviation Weather Surveillance Systems** Pravas Mahapatra,1999 Focusing on radar based surveillance this book has been written to provide a comprehensive introduction to the science sensors and systems that form modern aviation weather surveillance systems

Monthly Weather Review ,1987 **Scientific and Technical Aerospace Reports** ,1991-02 **The Lincoln Laboratory Journal** ,1997 **A Gust Front Case Studies Handbook** Diana Lynn Klinge,Lincoln Laboratory,MASSACHUSETTS INST OF TECH LEXINGTON LINCOLN LAB.,1985 Gust fronts produce low altitude wind shear that can be hazardous to aircraft operations especially during takeoff and landing Radar meteorologists have long been able to identify gust front signatures in Doppler radar data but in order to use the radars efficiently automatic detection of such hazards is essential Eight gust front case studies are presented The data include photographs of the Doppler weather radar displays thermodynamic and wind measurements from a 440 m high tower environmental soundings and tables of gust front characteristics The tabulated characteristics are those thought to be the most important in developing rules for automatic gust front detection such as length and height maximum and minimum values of reflectivity velocity and spectrum width and estimates of radial shear For the cases studied outflows could be detected most reliably in the velocity field but useful information also could be gleaned from the spectrum width and reflectivity fields The signal to noise ratio threshold was found to be a major factor in the ability of an observer to discern the gust front signature in the Doppler radar displays Detection within the spectrum width field required a higher SNR than did the radial velocity field Keywords Doppler Weather Radar Gust fronts Low altitude wind shear and Aviation weather hazards *International Conference on Radar Meteorology* ,1995 **Meteorological and Geoastrophysical Abstracts** ,1988 *Preprints of Papers* ,1986 *Preprints - Radar Meteorology Conference* ,1993 **Preprints** ,1986 *Journal of Atmospheric and Oceanic Technology* ,1993 **The Record of the IEEE ... International Radar Conference** ,1995 **Aeronautical Engineering** ,1992 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA **World Conference on Radio Meteorology Incorporating the Eleventh Weather Radar Conference** ,1995

AIAA 27th Aerospace Sciences Meeting ,1989 *Government Reports Annual Index* ,1991 International Aerospace Abstracts ,1994 *Government Reports Announcements & Index* ,1985

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