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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 54 pages. Original publisher: White Sands Missile Base, NM : Army Research Laboratory, 2003 OCLC Number: (OCoLC)74249080 Subject: Probability forecasts (Meteorology) Excerpt: . . . Theoretical studies and empirical evidence have associated CAT with Kelvin-Helmholtz instabilities. Miles and Howard indicate that the development of such instabilities require the existence of a critical Richardson number (RI) 0. 25. Stull notes that the Richardson number is a simplified term or approximation of the turbulent kinetic energy equation where the RI is expressed as a ratio of the buoyancy resistance to energy available from the vertical shear (16, 17). The equation is expressed below: $g Z RI (1) 2 V Z$ where g is the gravitational acceleration, Z is the change of potential temperature with height, and V is the vector wind shear occurring over the vertical distance Z . The U. S. Navy Fleet Numerical Meteorological and Oceanography Center (FNMOC) uses the Panofsky index (PI) to forecast low-level turbulence, where the low level is considered to be below 4000 ft above ground level (AGL). The formula for this index is: $RI2 Panofskyindex (windspeed 1. 0 (2)) RIcrit$ where RI is the Richardson number and RI is a critical Richardson number empirically found crit to be 10. 0 for the FNMOC data. The higher the Panofsky index the greater the intensity of turbulence at low levels (18). Investigation of pilot reports and radiosonde upper-air observation (RAOB) data showed that the Panofsky index in the lower levels and the Richardson number above 4000 ft provided the best skill scores. Meanwhile, Ellrod and Knapp 1992 listed environments where significant CAT was found to be prevalent....



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