

FM-CW boundary layer radar with Doppler capability

Environmental Research Laboratories - A review of microwave radar observations in the dry convective planetary boundary layer

Description: -

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Methodism -- History -- 19th century

Psychology, Religious -- History -- 19th century

Experience (Religion) -- History -- 19th century

Methodism -- History -- 18th century

Psychology, Religious -- History -- 18th century

Experience (Religion) -- History -- 18th century

Hydrology -- Research -- United States

National Research Program (Geological Survey)

Refractive index -- Mathematical models

Atmospheric temperature -- Measurement

Floods

Boundary layer (Meteorology)

Doppler effect

Radar meteorologyFM-CW boundary layer radar with Doppler capability

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NOAA technical report ERL -- 22

NOAA technical report ERL -- 251

NOAA technical report ; ERL 251-WPL 22

NOAA technical report ERL -- 39

NOAA technical report ERL -- 329

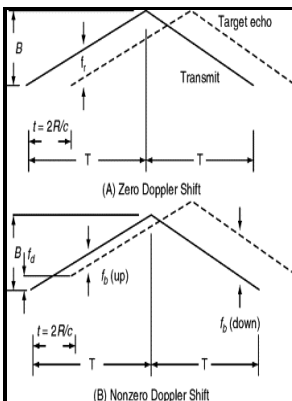
NOAA technical report ; ERL 329-WPL 39FM-CW boundary layer

radar with Doppler capability

Notes: Includes bibliographical references (p. 21)

This edition was published in 1975

Tags: #Design #and #Deployment #of #a #Portable, #Pencil



Filesize: 32.48 MB

Intermittent Turbulence Associated with a Density Current Passage in the Stable Boundary Layer

Future mobile systems, under construction, use higher power transmitters and higher frequency and staggered PRFs. The antenna controller for the DOW radar was implemented with a 486-class PC and a custom interface designed for utilization of the SCR-584 pedestal. Five of them were positioned close to singularities in the humidity or temperature profiles provided by a radiosounding.

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In this event, two more pulses at 10 and 15 s can be identified. The three 200S systems stared at a location just south of the southeast sonic anemometers on the BAO tower for 25 s at each level to create a virtual tower of 3D wind fields. In the early morning until about 0900 UTC a series of thin layered echoes staggered vertically is clearly apparent in the UHF reflectivity section.

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Ongoing improvements in telecommunications technology, and especially the rapid recent increase in use of fiberoptic communications lines, are enabling progress regarding data transmission limitations, while data management and display issues have been addressed through the recent development and implementation of sophisticated computer-workstation-based meteorological graphics display software. Four time periods exhibiting good data quality and large wind speed variability were selected for the dual-Doppler analysis.

Meteorological Radar

The total number of these cases is 229. Citation: Journal of Atmospheric and Oceanic Technology 14, 6;. Through an analysis of score histograms we find a suitable value of the threshold value.

The Doppler shift provides the means to separate the transmitted signal from the received signal.

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