

1. Record Nr.	UNINA9910465054003321
Titolo	Synoptic-dynamic meteorology and weather analysis and forecasting [[electronic resource]] : a tribute to Fred Sanders / / edited by Lance F. Bosart, Howard B. Bluestein
Pubbl/distr/stampa	Boston, : American Meteorological Society, [2008]
ISBN	0-933876-68-8
Edizione	[1st ed. 2008.]
Descrizione fisica	1 online resource (425 p.)
Collana	Meteorological monographs, , 0065-9401 ; ; v. 33, no. 55
Altri autori (Persone)	BluesteinHoward B BosartLance F
Disciplina	551.506
Soggetti	Dynamic meteorology Synoptic meteorology Weather forecasting Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"November 2008."
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Fronts and Surface Boundaries -- Surface Boundaries of the Southern Plains: Their Role in the Initiation of Convective Storms -- Strong Surface Fronts over Sloping Terrain and Coastal Plains -- Back to Norway: An Essay -- An Empirical Perspective on Cold Fronts -- Perspectives on Fred Sanders' Research on Cold Fronts -- The Fiftieth Anniversary of Sanders (1955): A Mesoscale Model Simulation of the Cold Front of 17–18 April 1953 -- Analysis and Diagnosis -- Ensemble Synoptic Analysis -- Surface Potential Temperature as an Analysis and Forecasting Tool -- Dynamical Diagnosis: A Comparison of Quasigeostrophy and Ertel Potential Vorticity -- Finescale Radar Observations of a Dryline during the International H2O Project (IHOP_2002) -- Forecasting -- The Sanders Barotropic Tropical Cyclone Track Prediction Model (SANBAR) -- The Application of Fred Sanders' Teaching to Current Research on Extreme Cold-Season Precipitation Events in the Saint Lawrence River Valley Region -- Must Surprise Snowstorms be a Surprise? -- Fred Sanders' Roles in the Transformation of Synoptic Meteorology, the Study of Rapid Cyclogenesis, the Prediction of Marine Cyclones, and the Forecast of

New York City's "Big Snow" of December 1947 -- Climate and Climatology -- Linking Weather and Climate -- Closed Anticyclones of the Subtropics and Midlatitudes: A 54-Yr Climatology (1950–2003) and Three Case Studies.

Sommario/riassunto

This long-anticipated monograph honoring scientist and teacher Fred Sanders includes 16 articles by various authors as well as dozens of unique photographs evoking Fred's character and the vitality of the scientific community he helped develop through his work. Editors Lance F. Bosart (University at Albany/SUNY) and Howard B. Bluestein (University of Oklahoma at Norman) have brought together contributions from luminary authors-including Kerry Emanuel, Robert Burpee, Edward Kessler, and Louis Uccellini-to honor Fred's work in the fields of forecasting, weather analysis, synoptic meteorology, and climatology. The result is a significant volume of work that represents a lasting record of Fred Sanders' influence on atmospheric science and legacy of teaching.