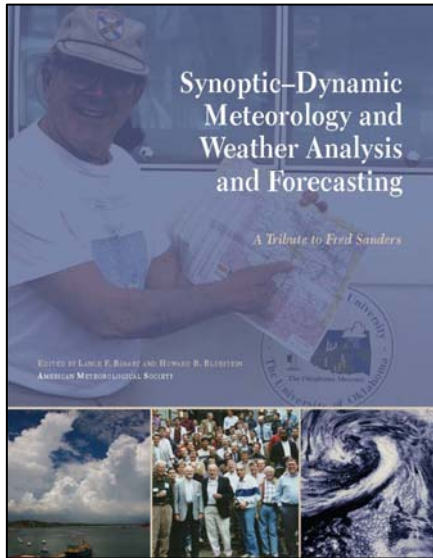


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Synoptic–Dynamic Meteorology and Weather Analysis and Forecasting

A Tribute to Fred Sanders

Lance F. Bosart and Howard B. Bluestein, Eds.

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Editors Lance F. Bosart (University at Albany, SUNY) and Howard B. Bluestein (University of Oklahoma) have brought together contributions from authors, including Kerry Emanuel, Robert Burpee, Edwin Kessler, and Louis Uccellini, representing key scientific research in the fields of synoptic meteorology, weather analysis, forecasting, and climatology.

Together the articles illustrate the evolution of research in these fields over many decades. They are collected here in honor of the late Fred Sanders, emeritus professor of meteorology at the Massachusetts Institute of Technology (MIT) and mentor to generations of weather researchers.

Sanders's influential role in his fields of study was vast: he coined the term “bomb” to describe explosively intensifying winter storms; in an oft-cited 1955 paper he established the critical roles of low-level horizontal confluence and convergence in the collapse of intense fronts; and he invented the field of oceanic mesometeorology, applying careful analysis of meteorological conditions experienced by a fleet of sailboats racing from Newport, Rhode Island, to Bermuda.

In addition to the articles, dozens of unique photographs pay homage to the vibrant community that developed under Sanders's influence. The result is both an essential tool for educating future weather researchers and a testament to Sanders's legacy of teaching.



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