



# Applied Atmospheric Dynamics

*Amanda H. Lynch, John J. Cassano*

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The weather can be a cause of disruption, despair and even danger everywhere around the world at one time or another. Even when benign it is a source of constant fascination. *Applied Atmospheric Dynamics* connects this interest with the theoretical underpinnings of fluid dynamics; linking real physical events as diverse as Hurricane Katrina and the strong katabatic winds of Antarctica, with quantitative conceptual models of atmospheric behaviour.

Assuming only basic calculus the book provides a physical basis for understanding atmospheric motions around the globe as well as detailing the advances that have led to a greater understanding of weather and climate.

The accompanying supplementary CD-ROM features colour graphics, maps, databases, animations, project materials, as well as weather data tips.

- Covers the standard theoretical principles of atmospheric dynamics and applies the theory to global real world examples
- Assumes only non-vector based calculus
- Features supplementary CD-ROM with electronic versions of all figures, case study data and possible term projects
- An invaluable text for students of Meteorology, Atmospheric Science, Geography and Environmental Science

A Solutions Manual is also available for this textbook on the Instructor Companion Site [www.wileyurope.com/college/lynch](http://www.wileyurope.com/college/lynch)

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