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Fig. 9.2 unavailable due to permission restriction.





Fig. 9.5 unavailable due to permission restriction.

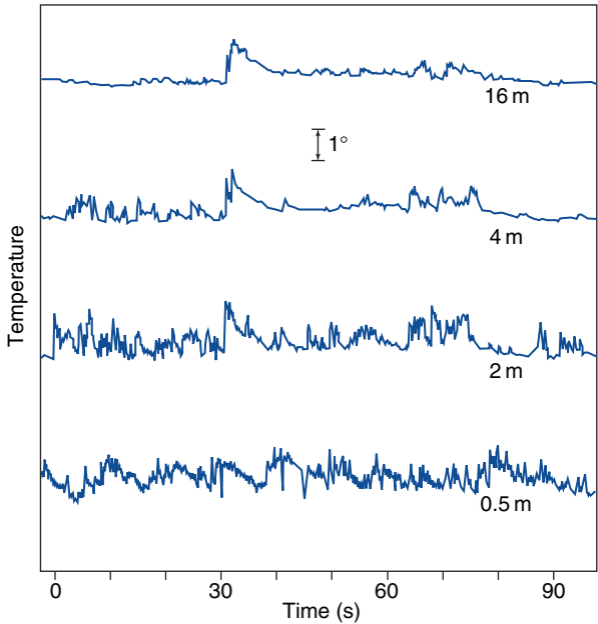
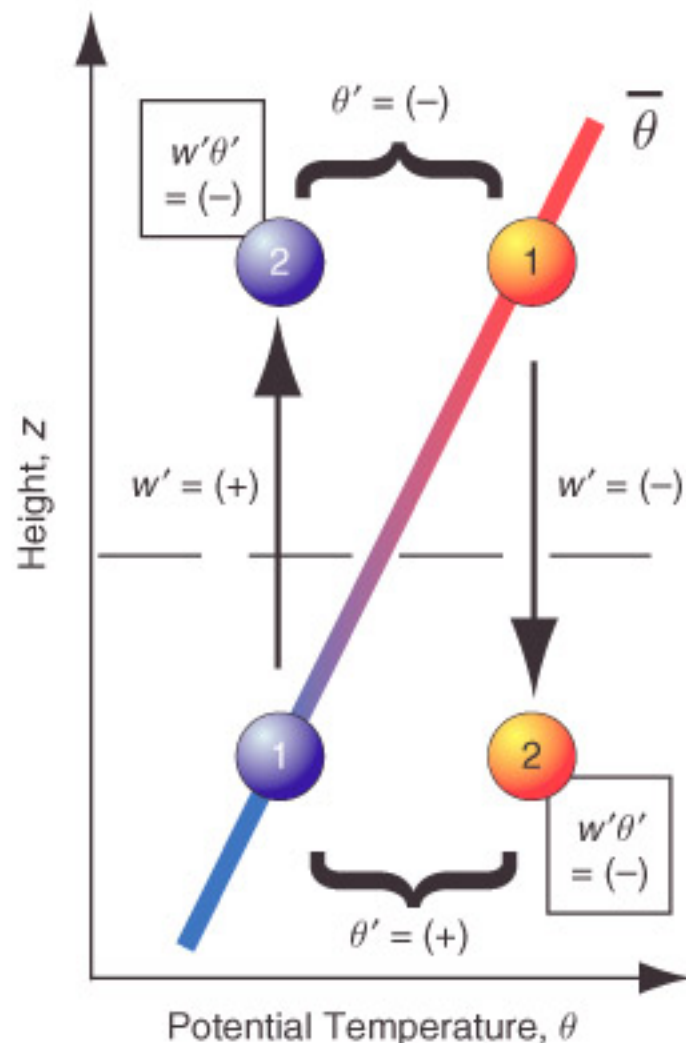
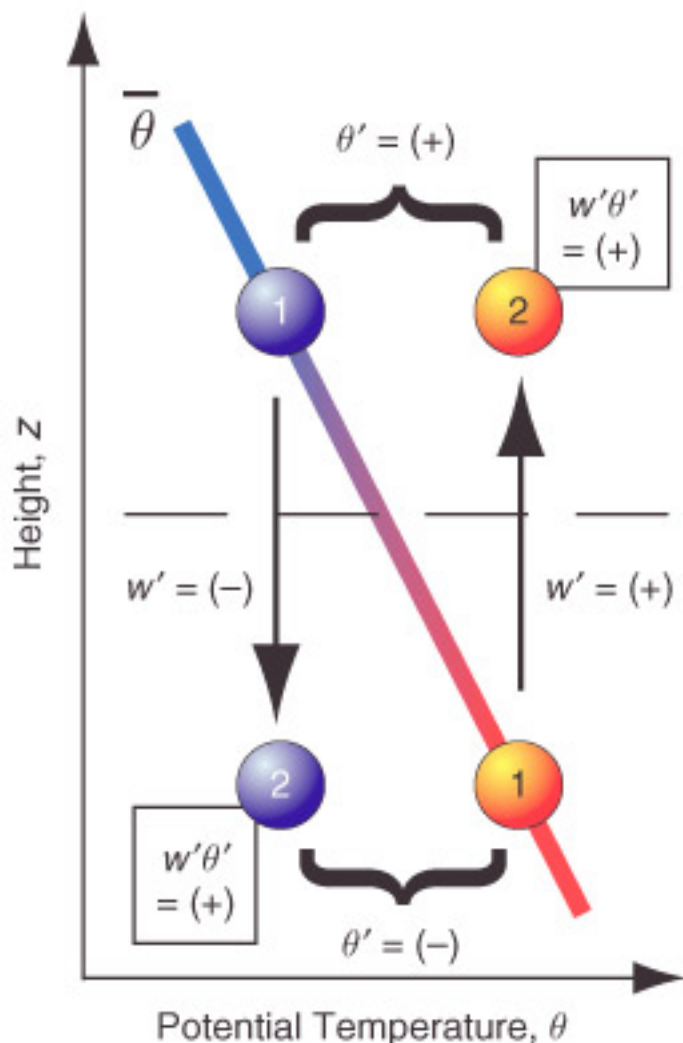
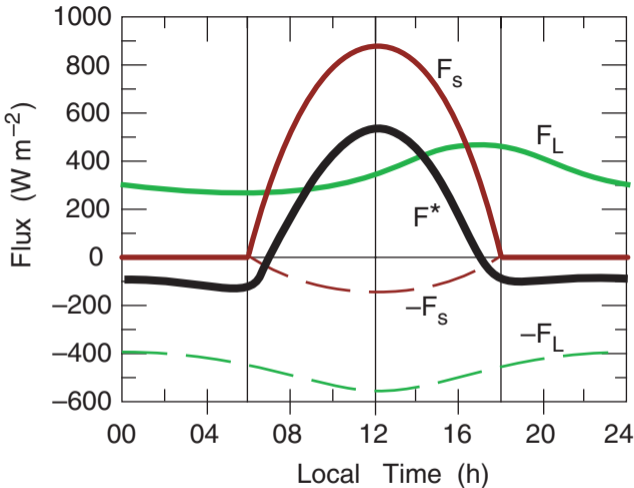


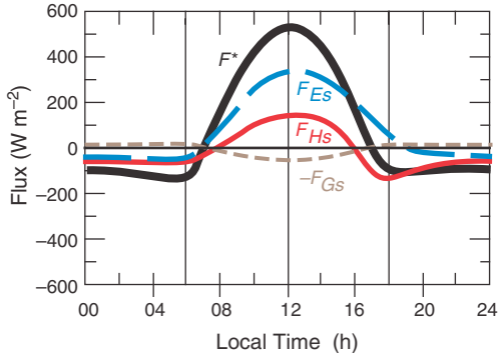
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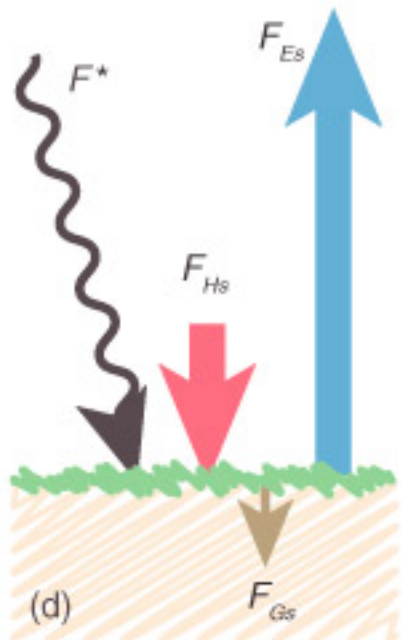
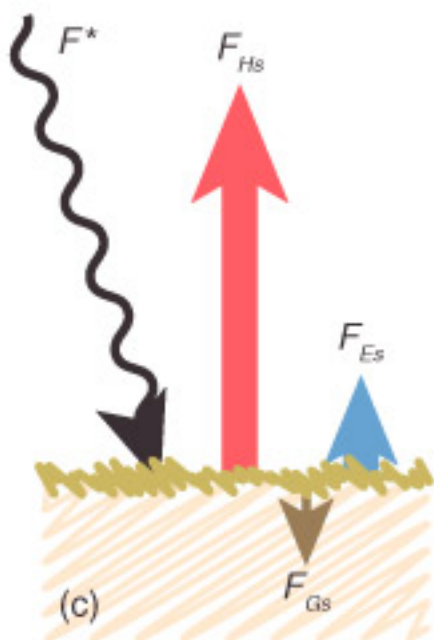
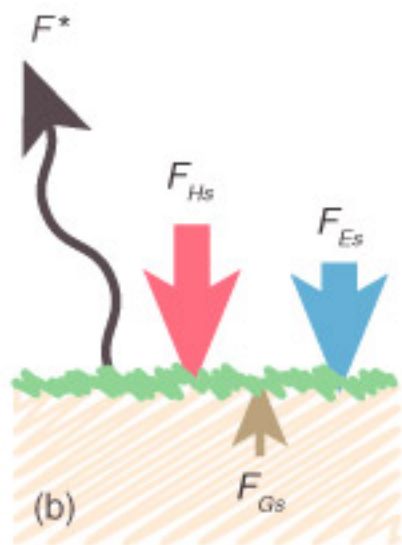
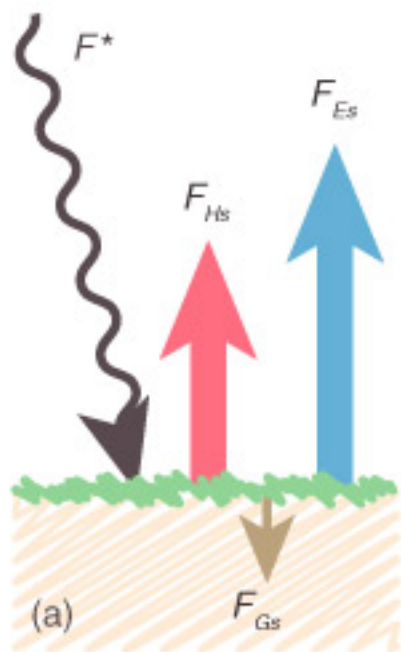
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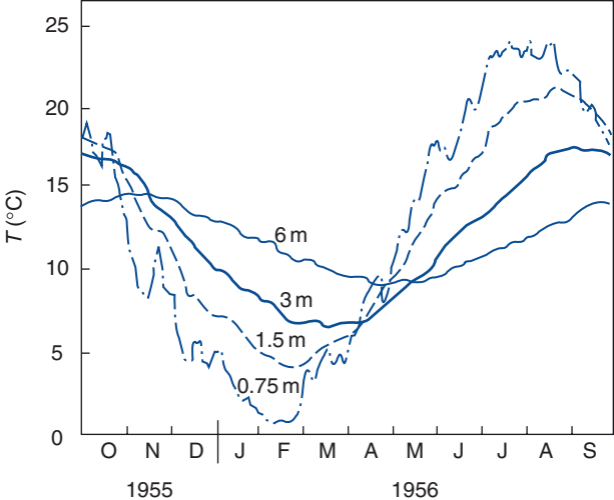
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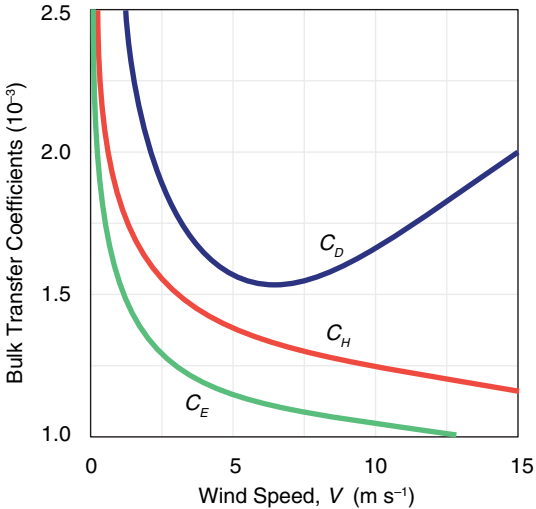
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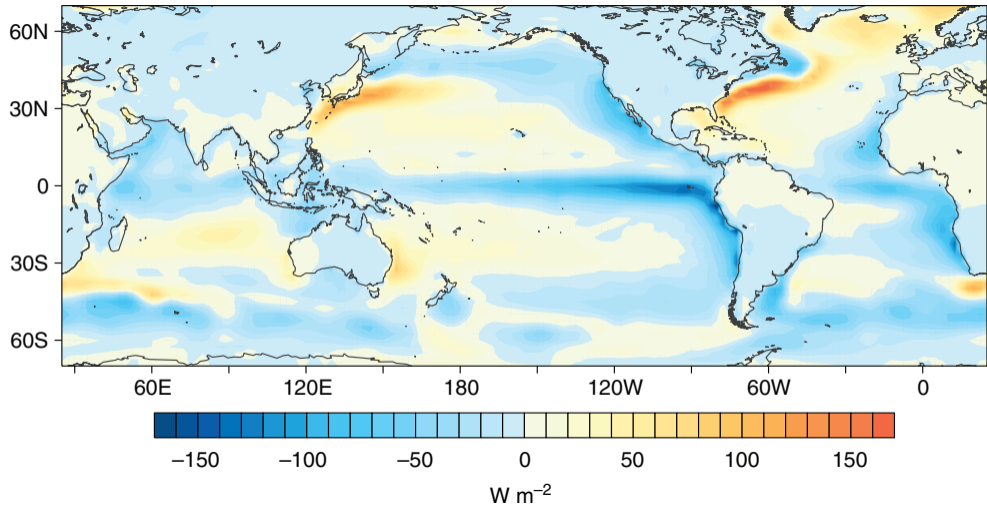


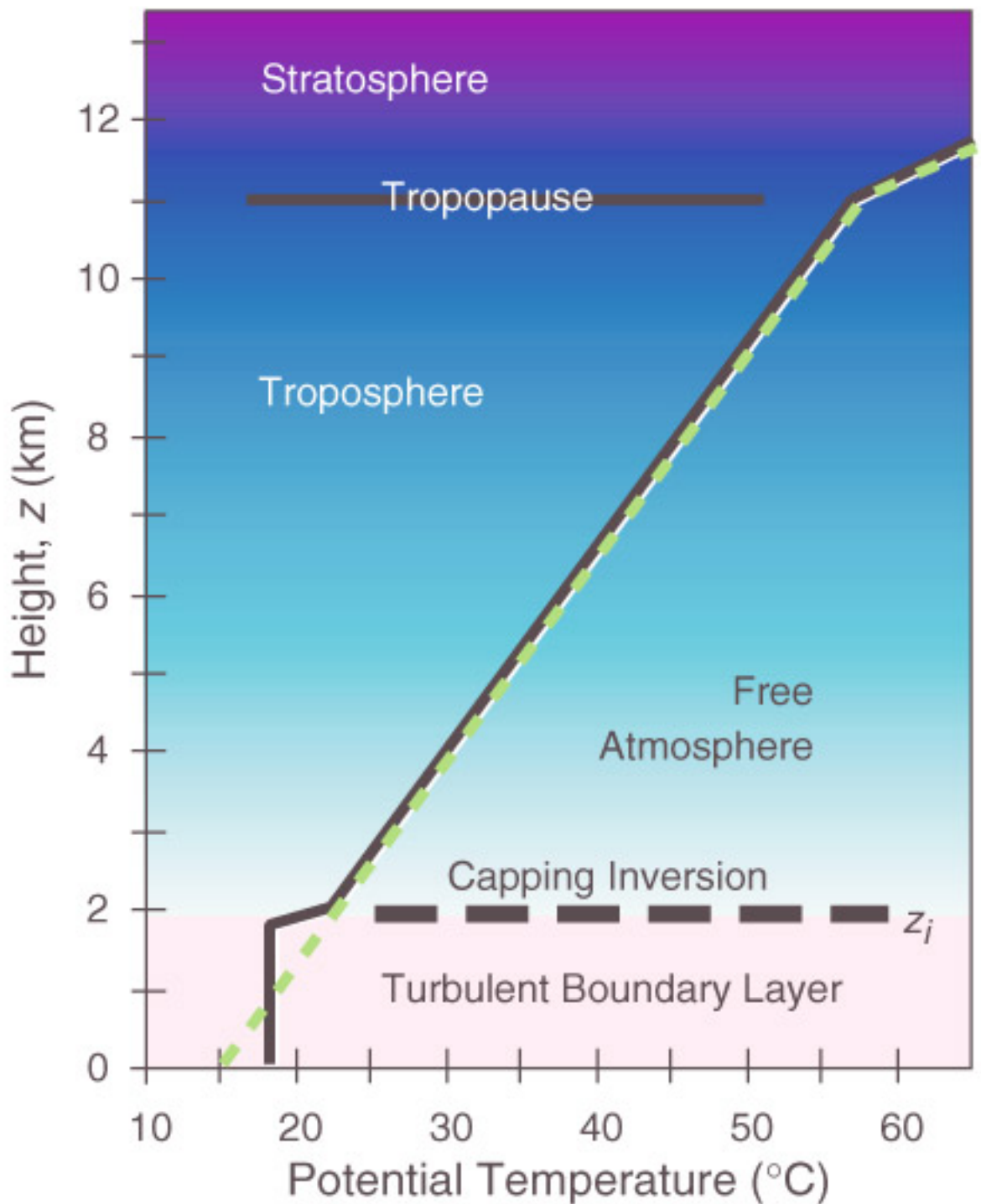
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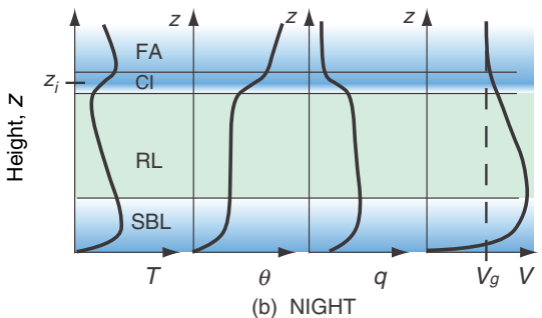
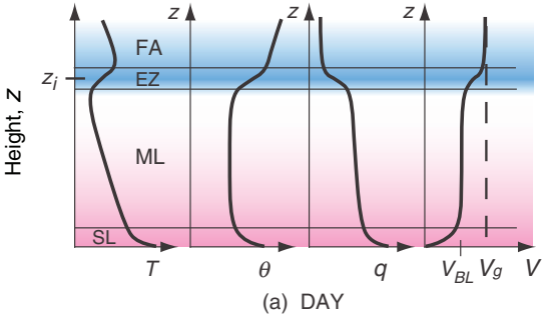
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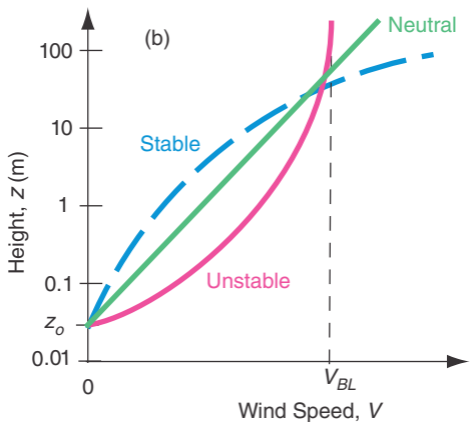
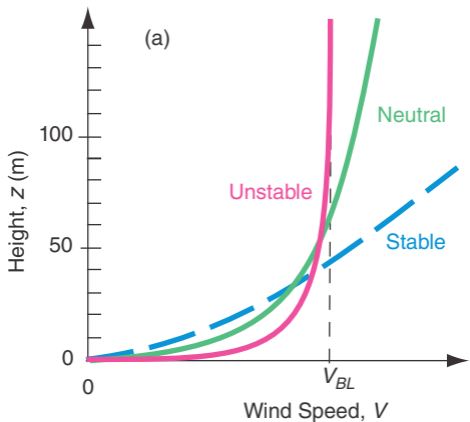




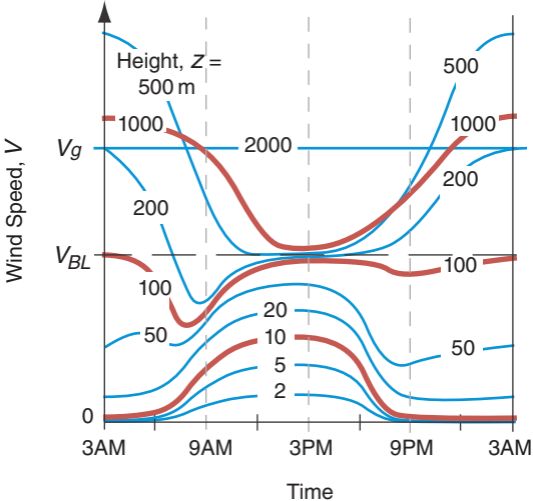


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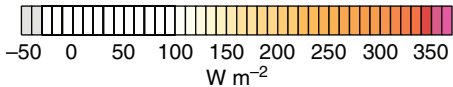
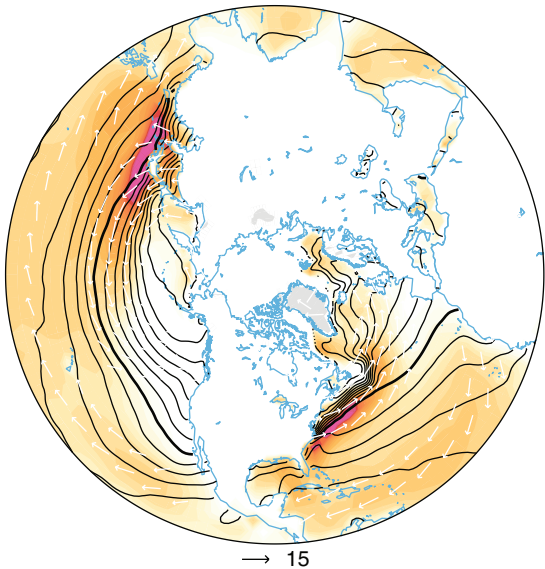


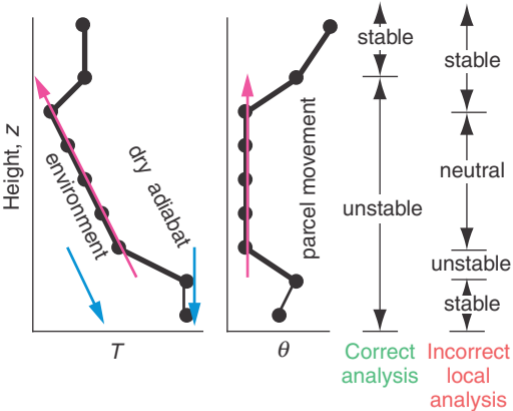
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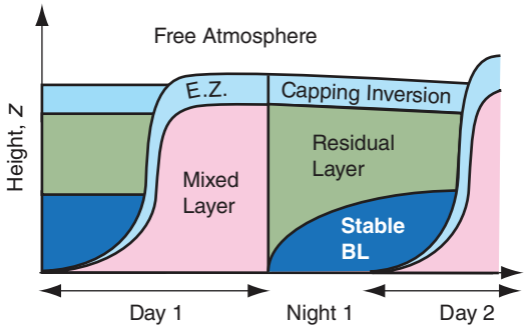
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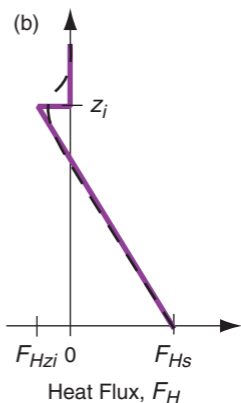
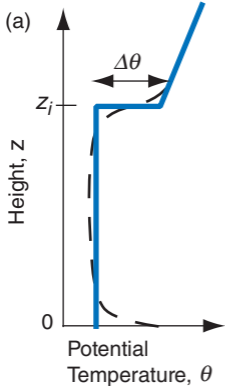




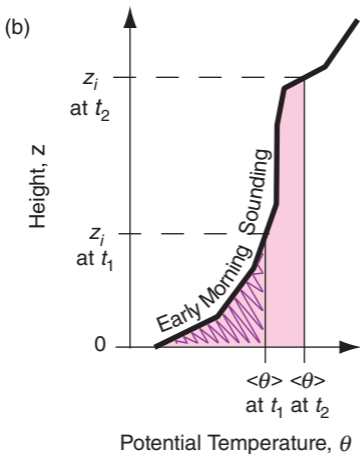
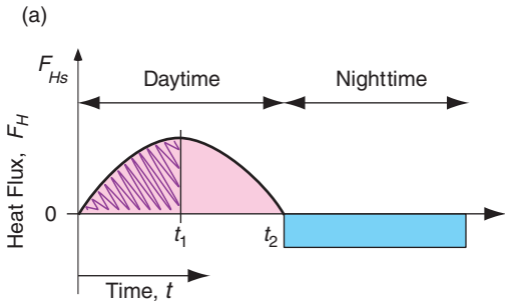
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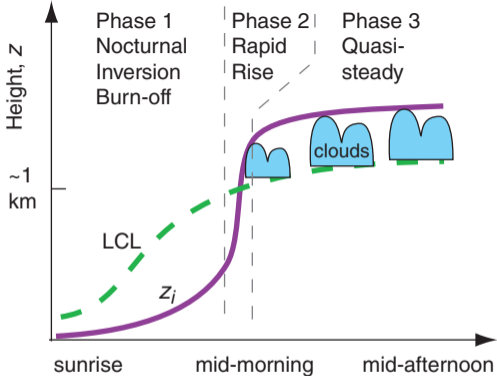


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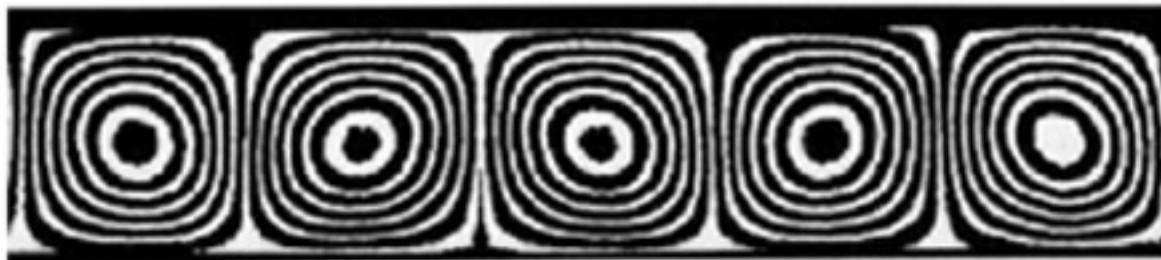




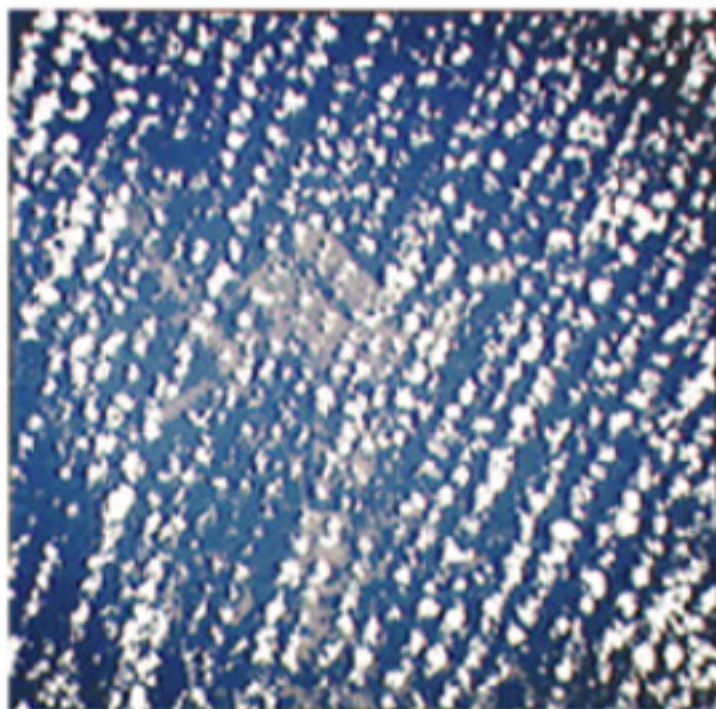
Adapted from R. B. Stull, *An Introduction to Boundary Layer Meteorology*, Kluwer Academic Publishers, Dordrecht, The Netherlands, 1988, Fig. 11.10, p. 452, and Fig. 13.12, p. 564, Copyright 1988 Kluwer Academic Publishers, with kind permission of Springer Science and Business Media.

[From "Influence of Initial and Boundary Conditions on Benard Convection," H. Oertel, Jr., and K.R. Kirchartz, in Recent Developments in Theoretical and Experimental Fluid Mechanics: Compressible and Incompressible Flow, U. Muller, K.G. Roesner, B. Schmidt, eds., Fig. 1, 1979, p. 356, Copyright Springer-Verlag, Berlin, 1979.

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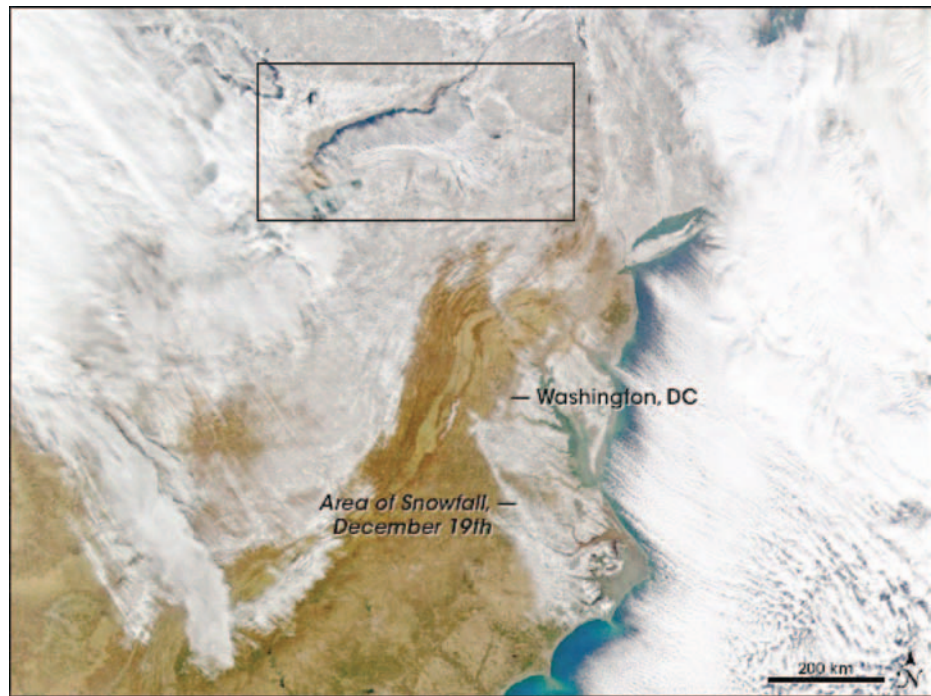


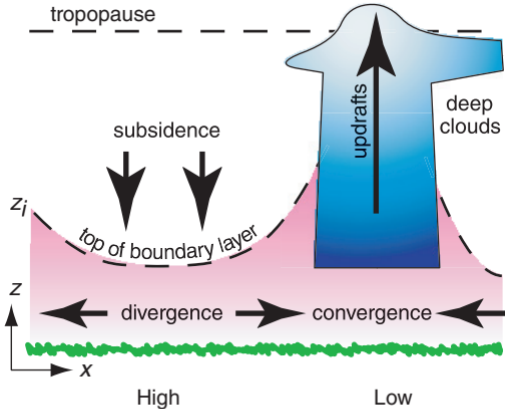
(b)



[NASA MODIS Imagery.]

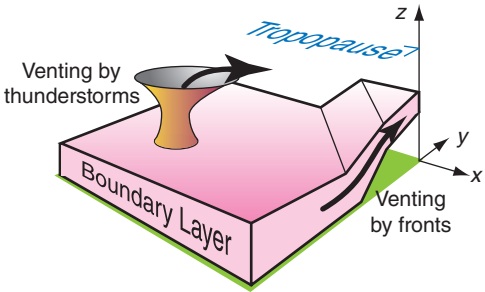






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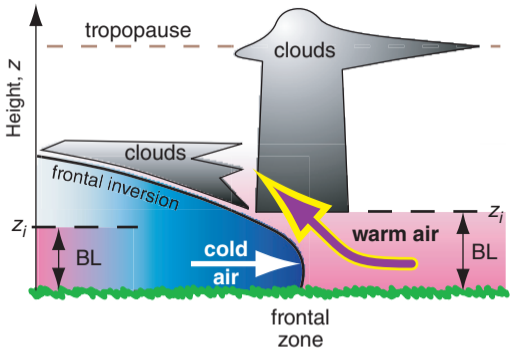
Venting by
thunderstorms

Boundary Layer

Venting
by fronts

Tropopause





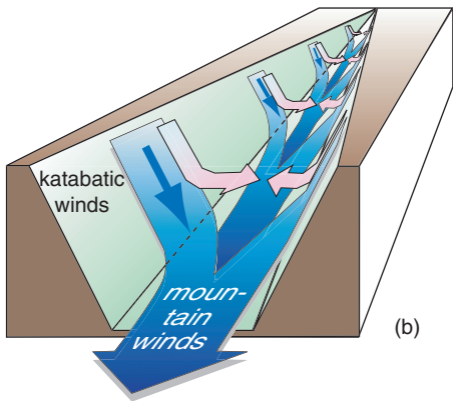
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anabatic clouds

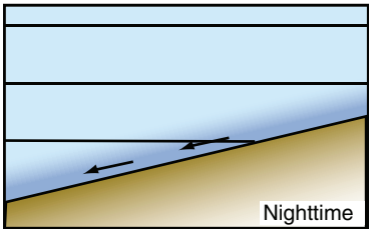
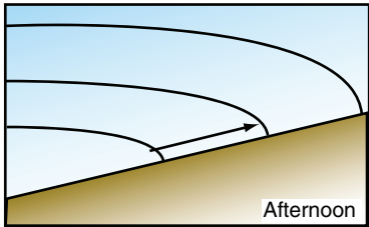
anabatic winds

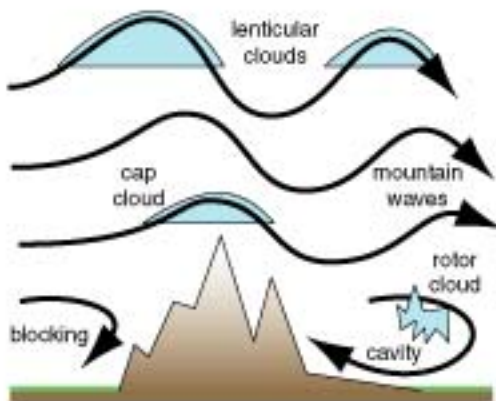
valley winds

(a)



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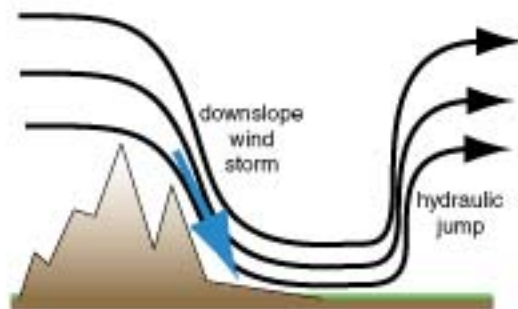




(a)



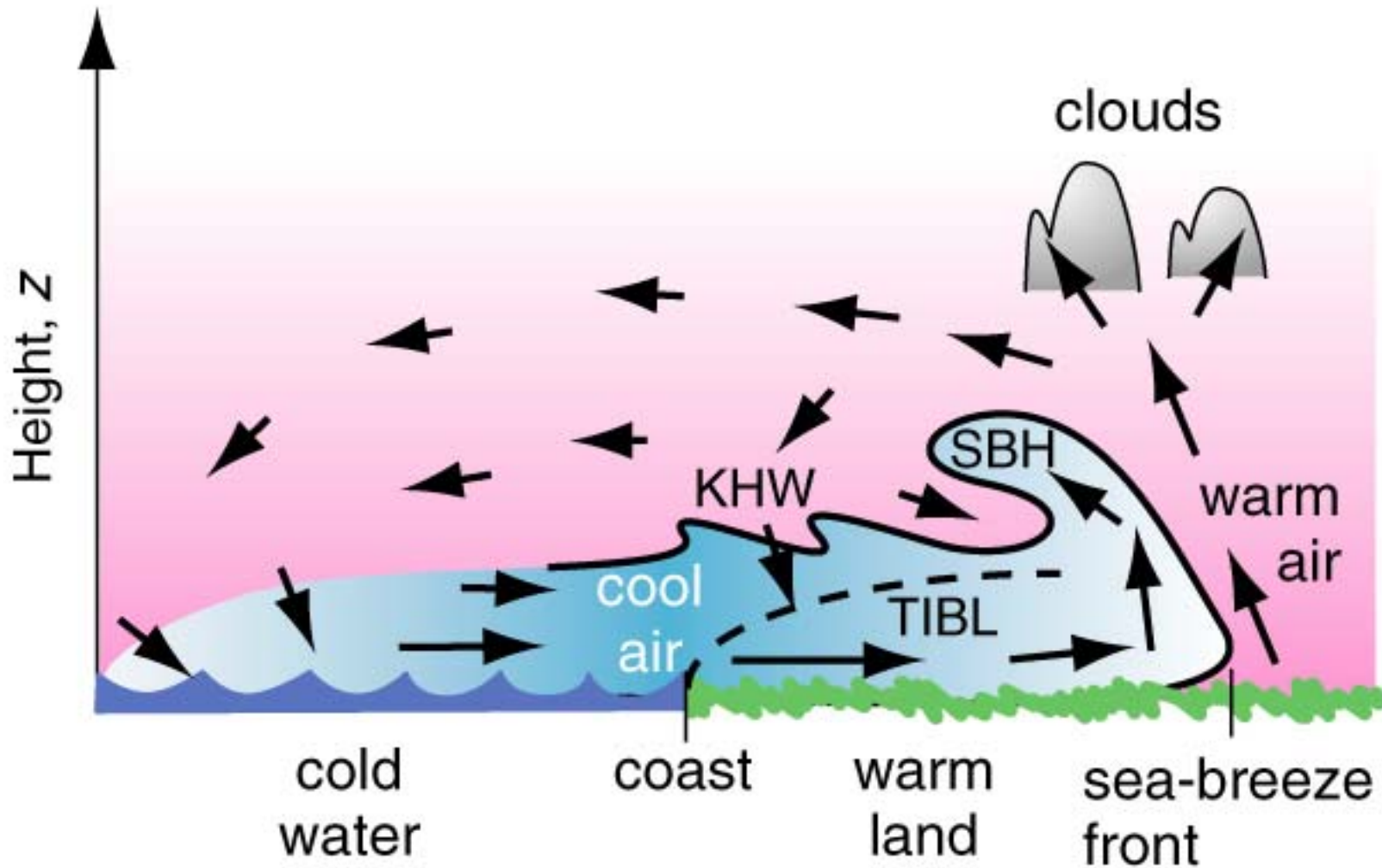
(b)



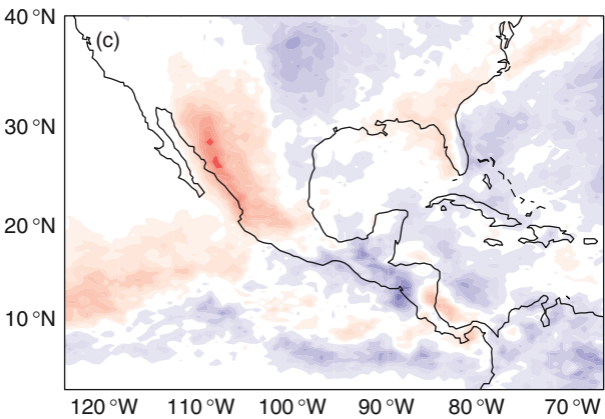
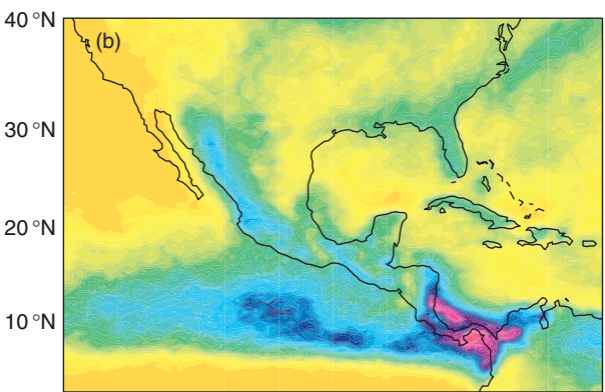
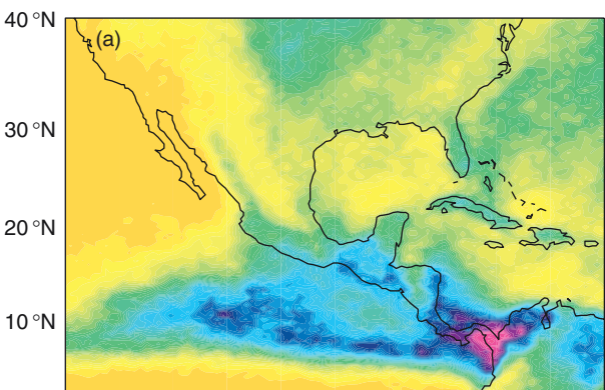
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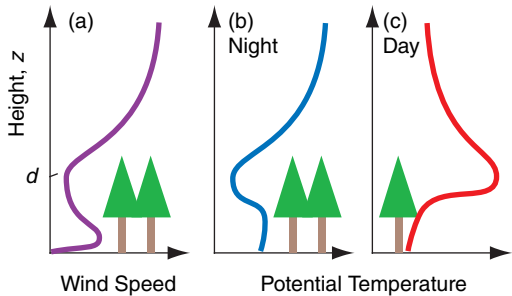
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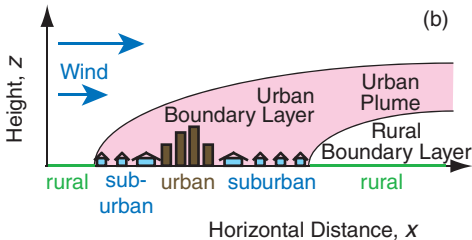
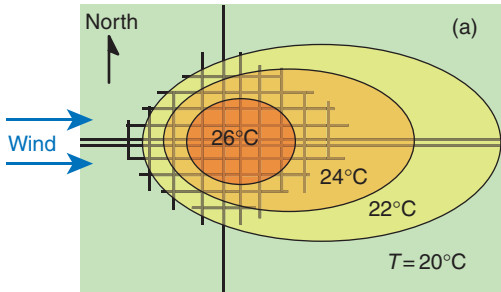


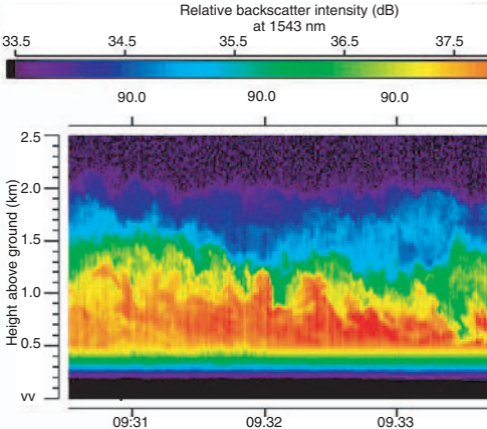


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Courtesy of Shane Mayor, National Center for Atmospheric Research. Data for the figure is from Mayor, S. D. and S. M. Spuler, 2004: Raman-shifted Eye-safe Aerosol Lidar, *Appl. Optics*, 43, 3915-3924.

East Pacific cross-equatorial cloud optical depth (MODIS),
SST (TMI) and wind stress (QUIKSCAT) (2000/09/11)

