

Fig. 1.1

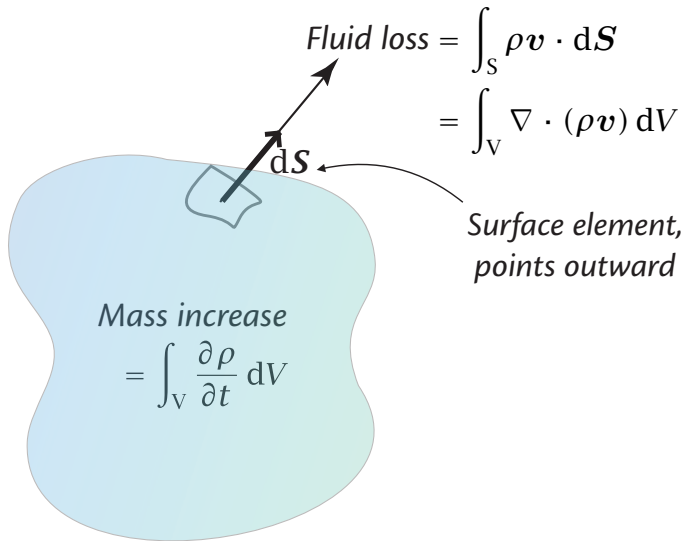
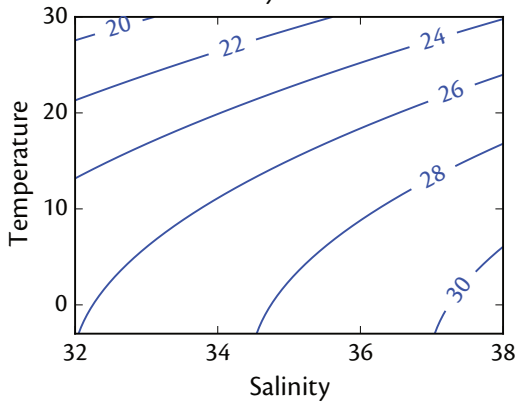


Fig. 1.2

Density at surface



Density at 4 km

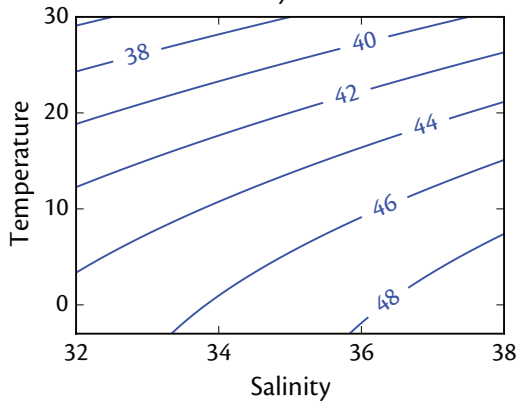


Fig. 1.3

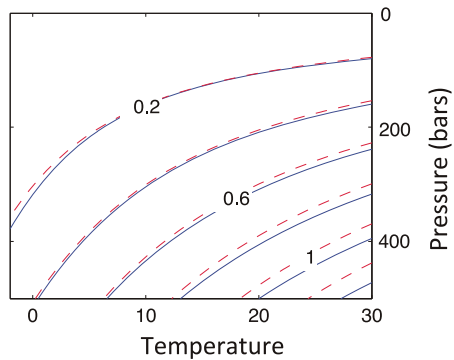
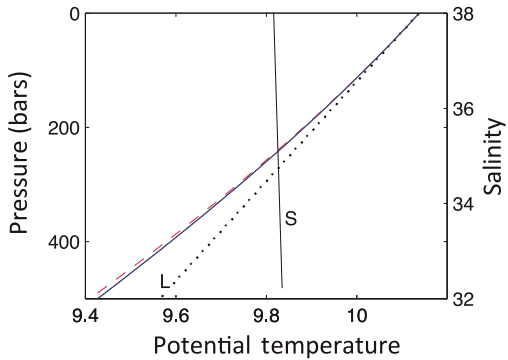


Fig. 1.4

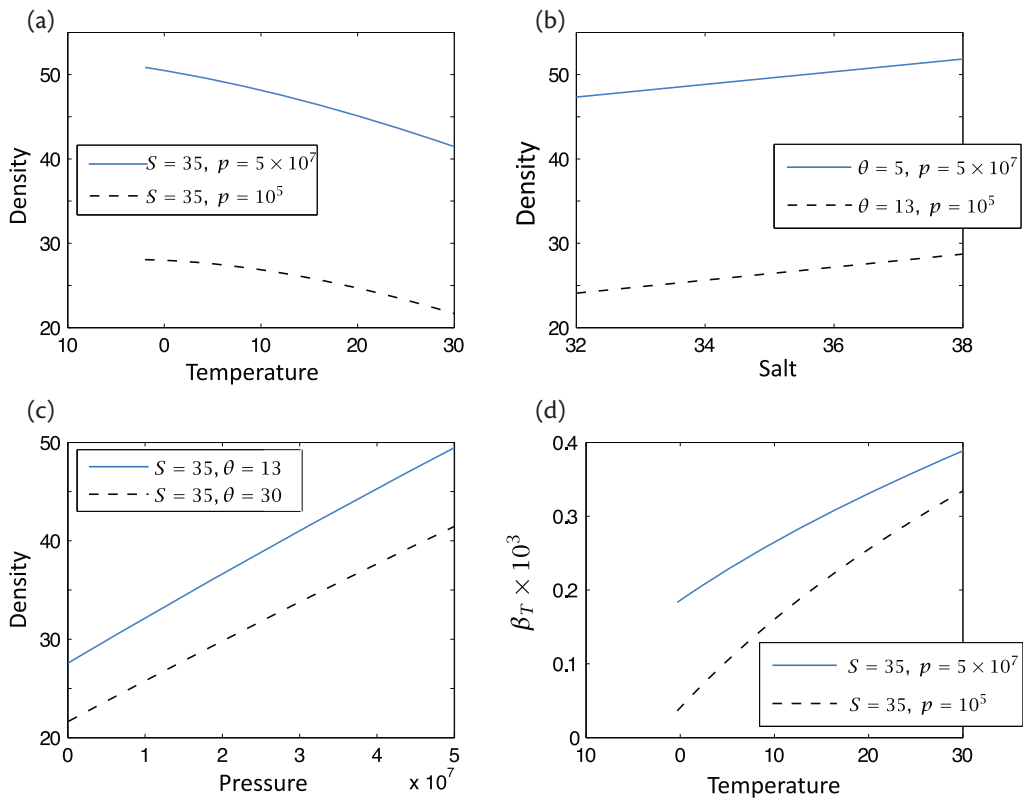


Fig. 1.5

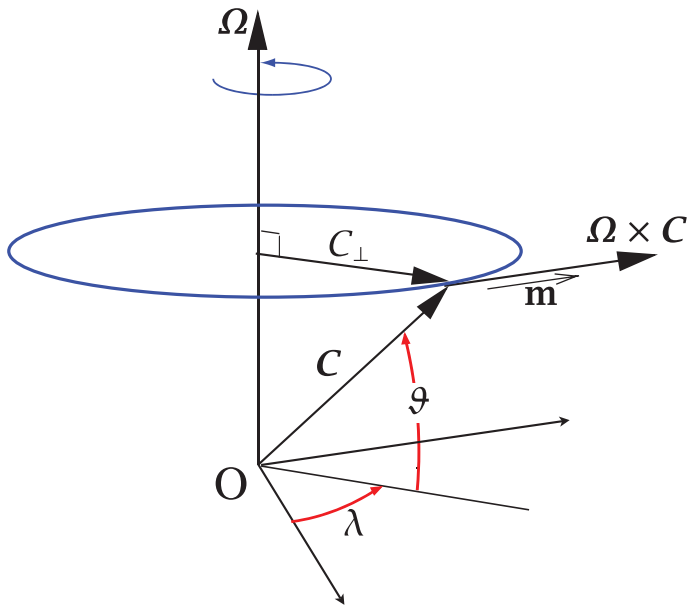


Fig. 2.1

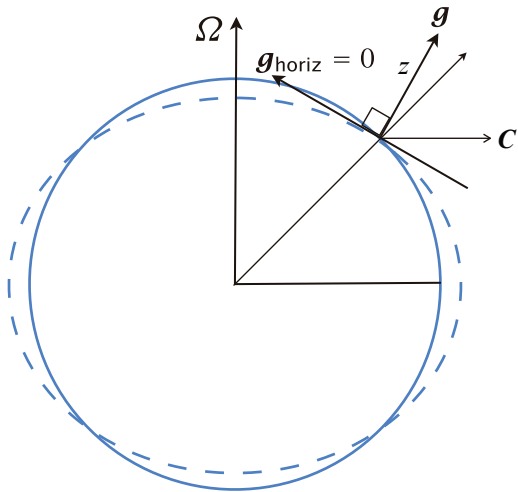
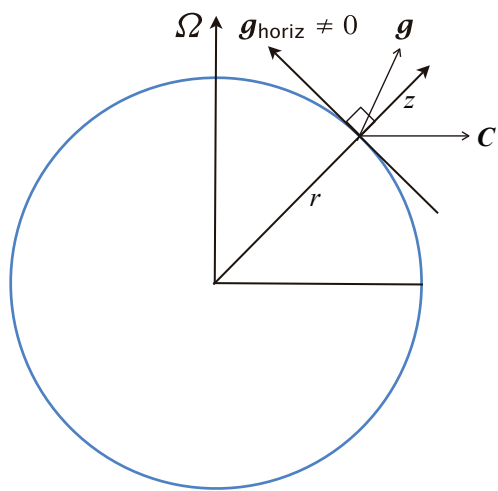


Fig. 2.2

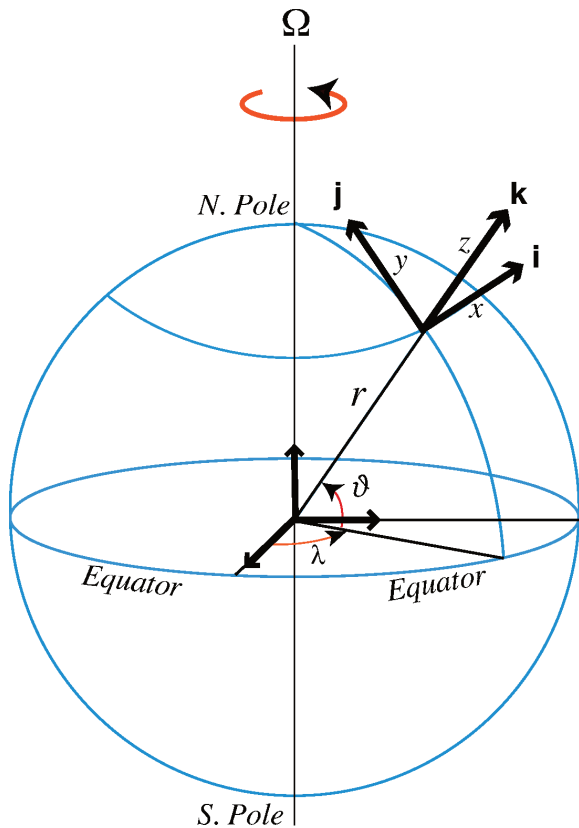
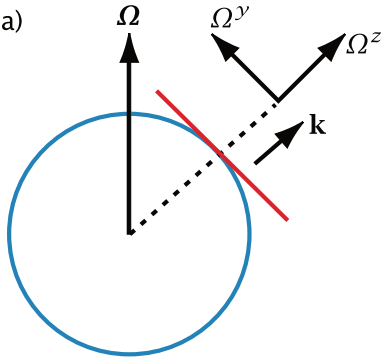


Fig. 2.3

(a)



(b)

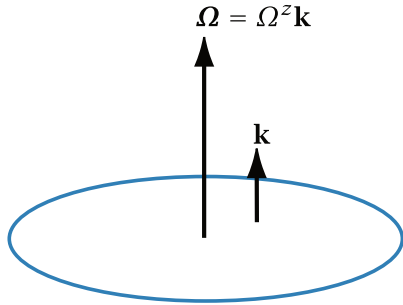


Fig. 2.4

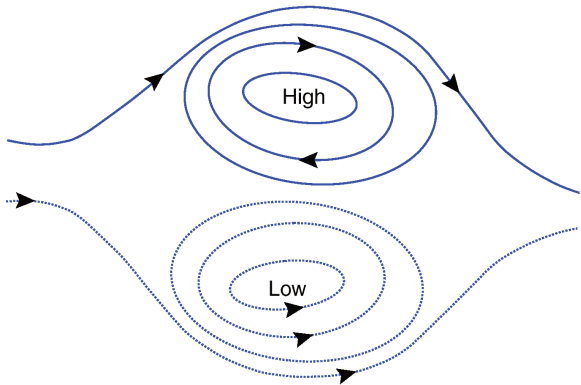


Fig. 2.5

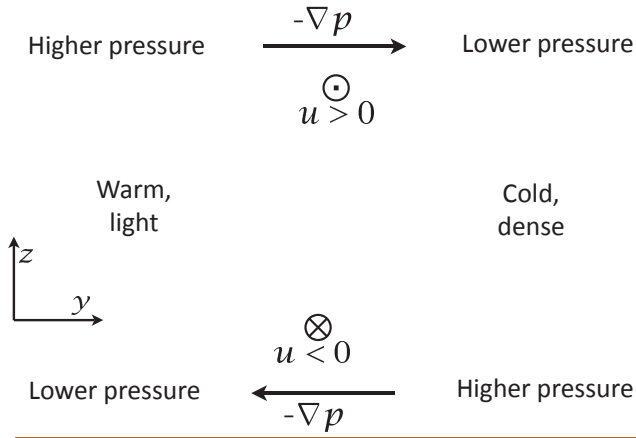


Fig. 2.6

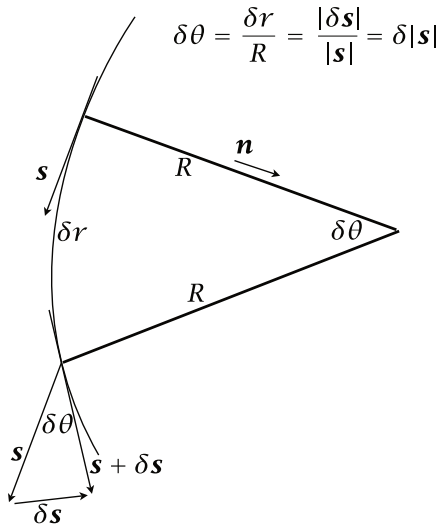
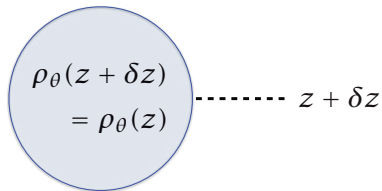


Fig. 2.7

$$\tilde{\rho}(z + \delta z) = \tilde{\rho}_{\theta}(z + \delta z)$$

$$\rho(z + \delta z) = \tilde{\rho}_{\theta}(z)$$



$$\rho_{\theta}(z) = \tilde{\rho}_{\theta}(z)$$

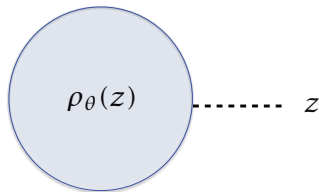


Fig. 2.8

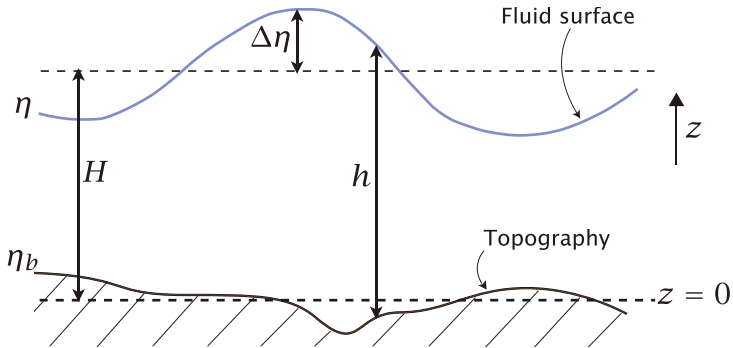


Fig. 3.1

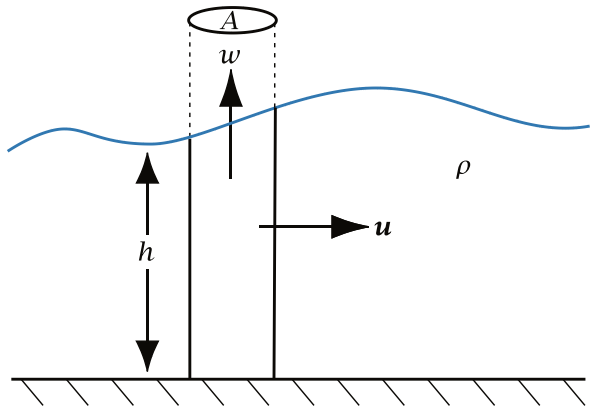


Fig. 3.2

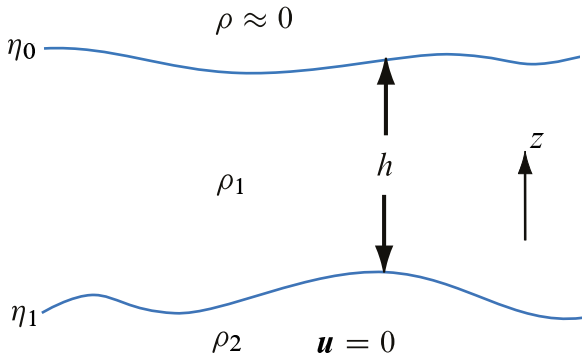


Fig. 3.3

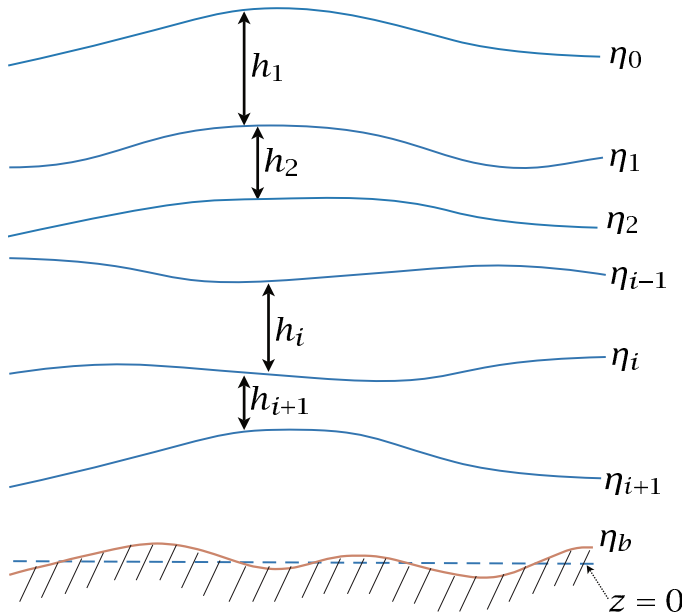


Fig. 3.4

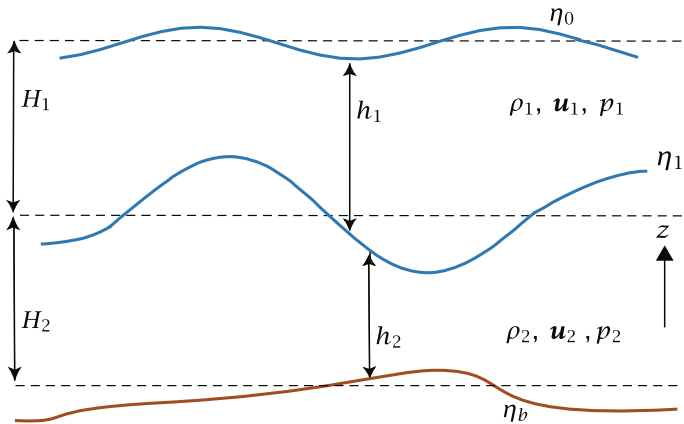


Fig. 3.5

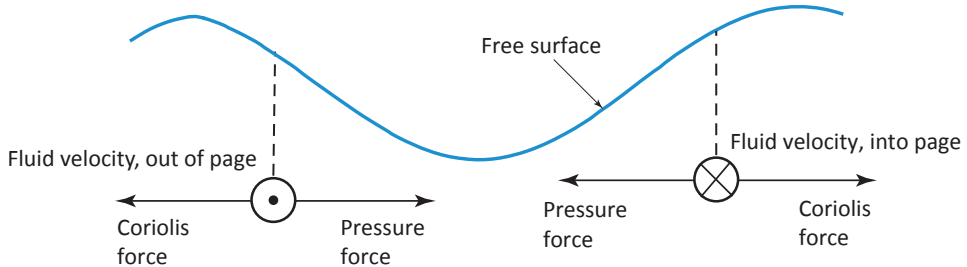


Fig. 3.6

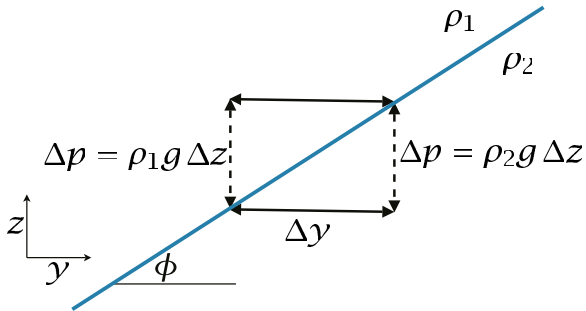


Fig. 3.7

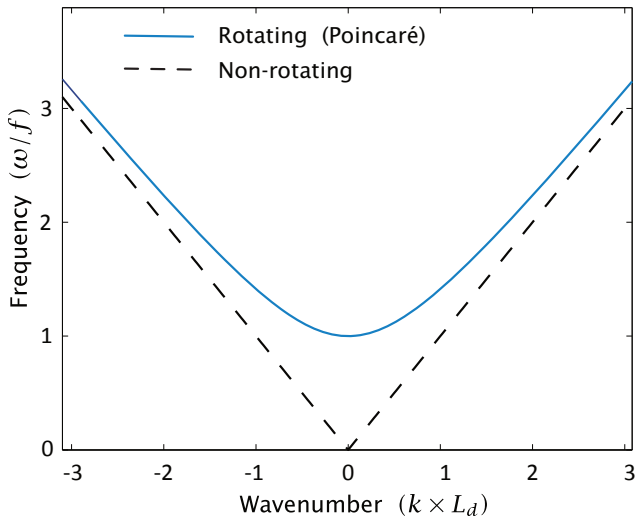


Fig. 3.8

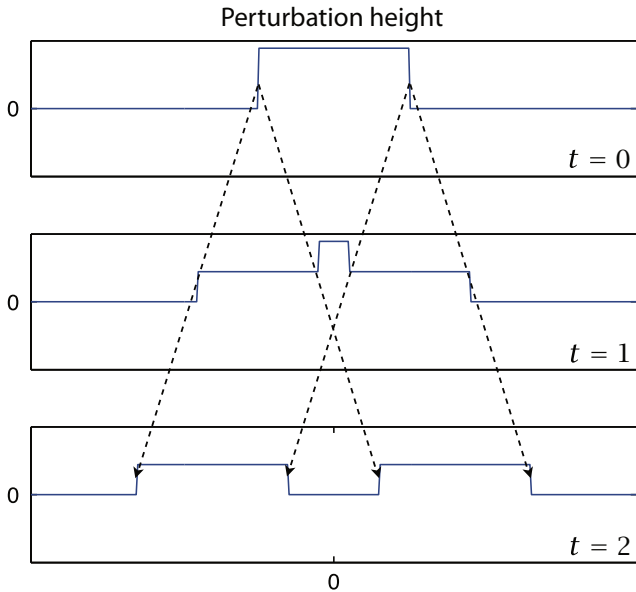


Fig. 3.9

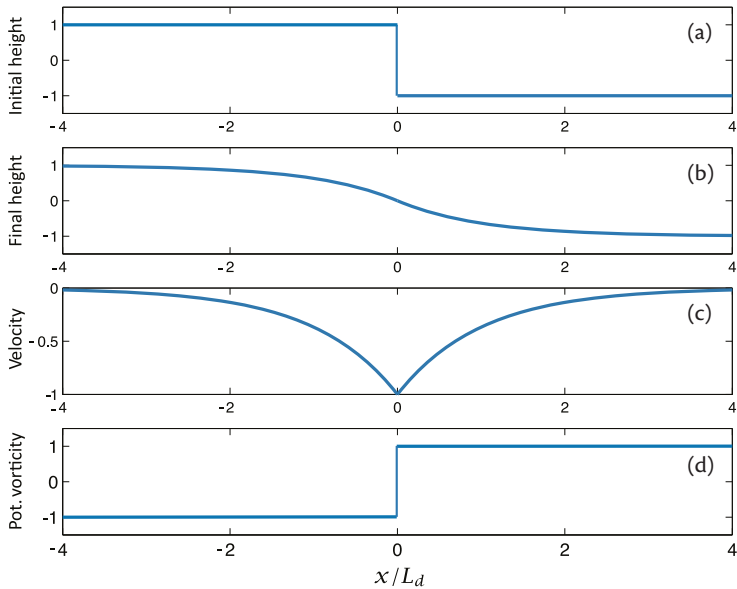


Fig. 3.10

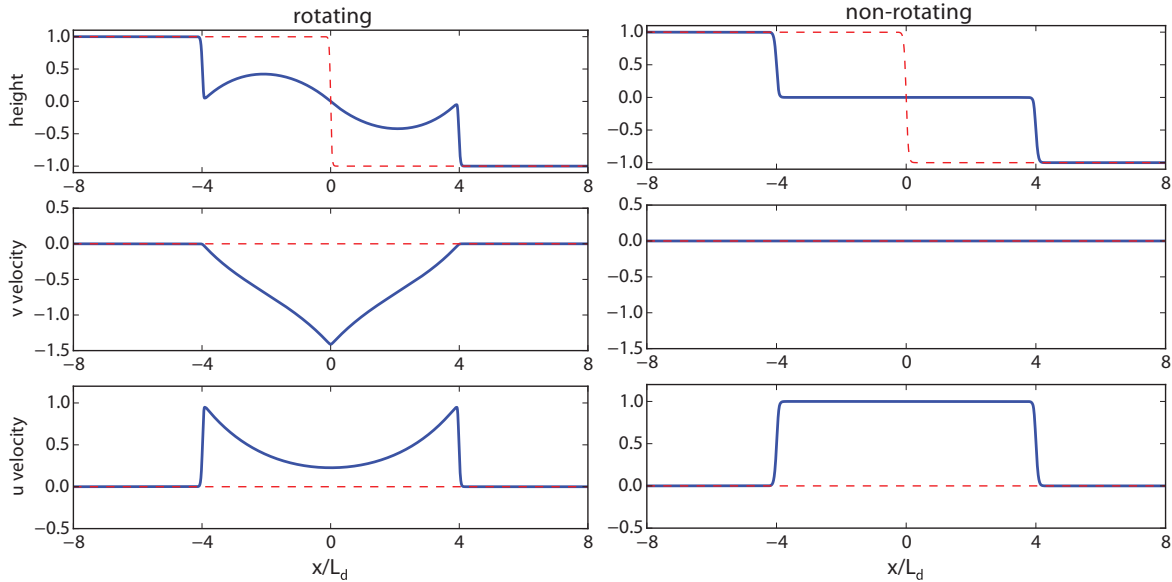


Fig. 3.11

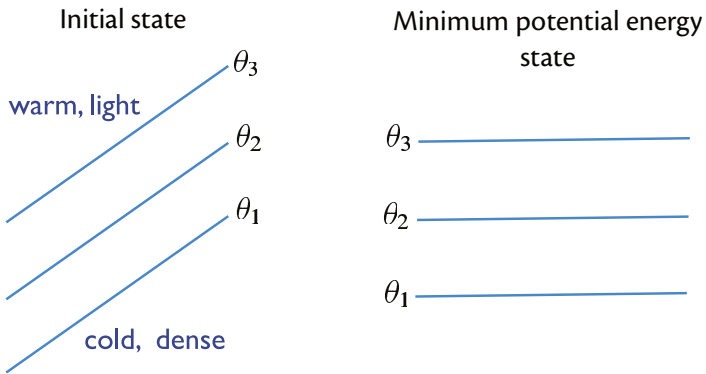


Fig. 3.12

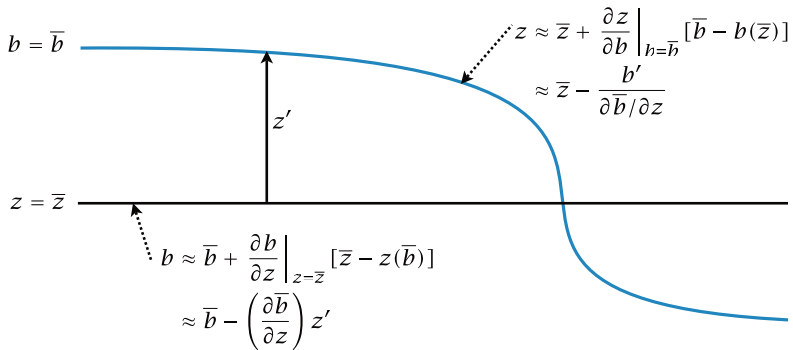


Fig. 3.13

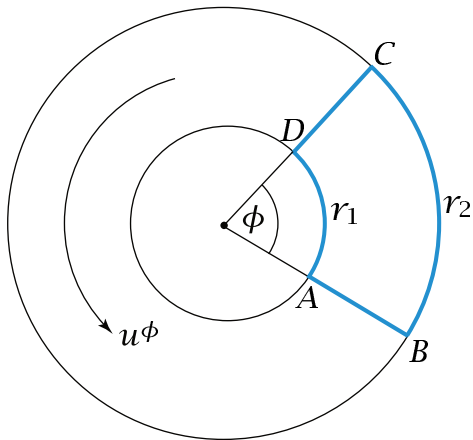


Fig. 4.1

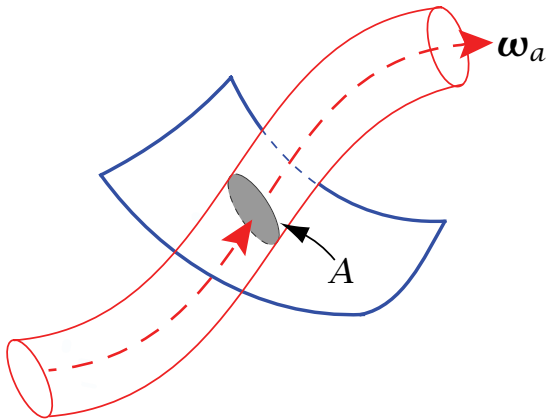


Fig. 4.2

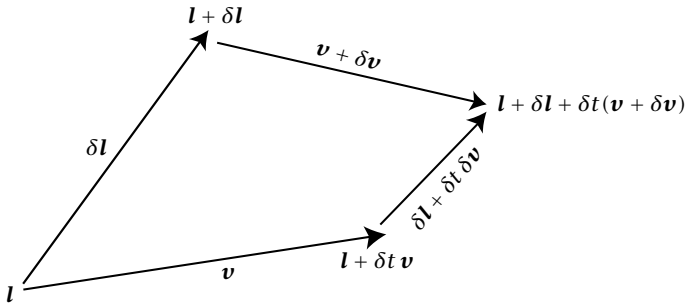


Fig. 4.3

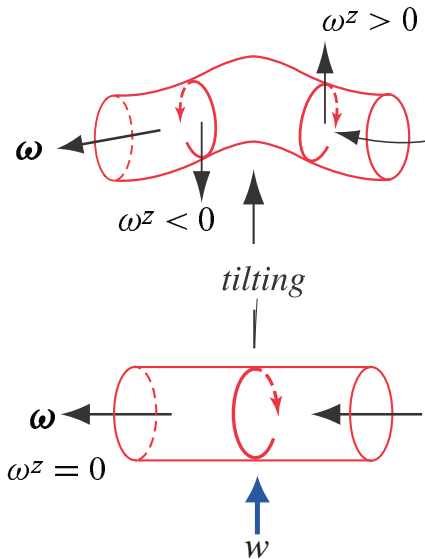


Fig. 4.4

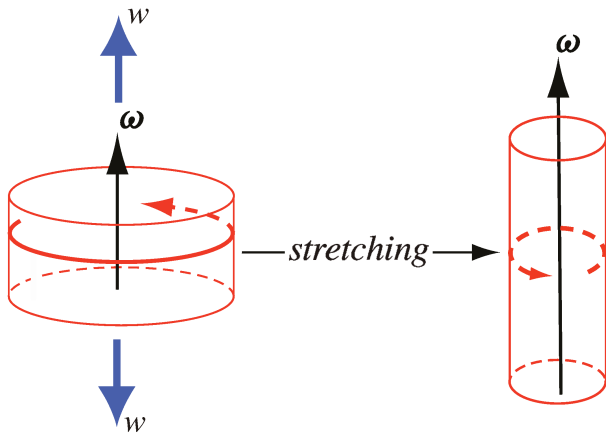


Fig. 4.5

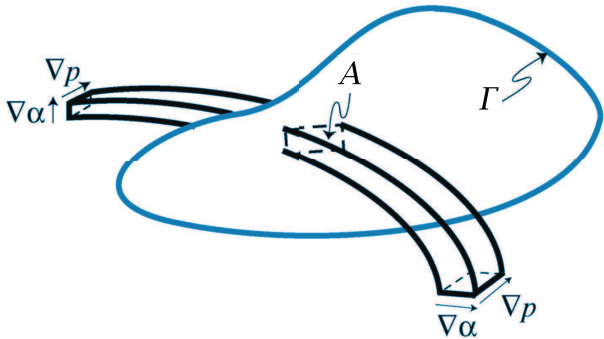


Fig. 4.6

$$\int_A (\boldsymbol{\omega} + 2\boldsymbol{\Omega}) \cdot d\mathbf{A} = 2\boldsymbol{\Omega} A_{\perp}$$

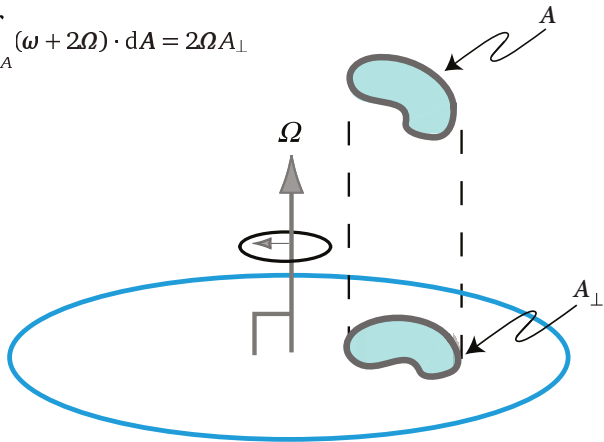


Fig. 4.7

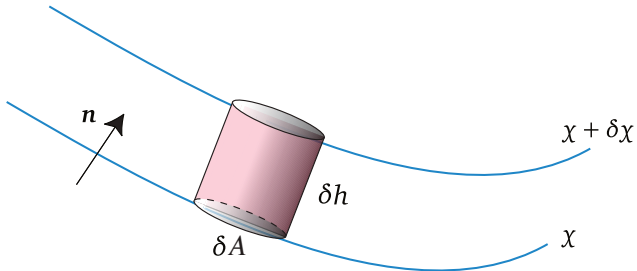
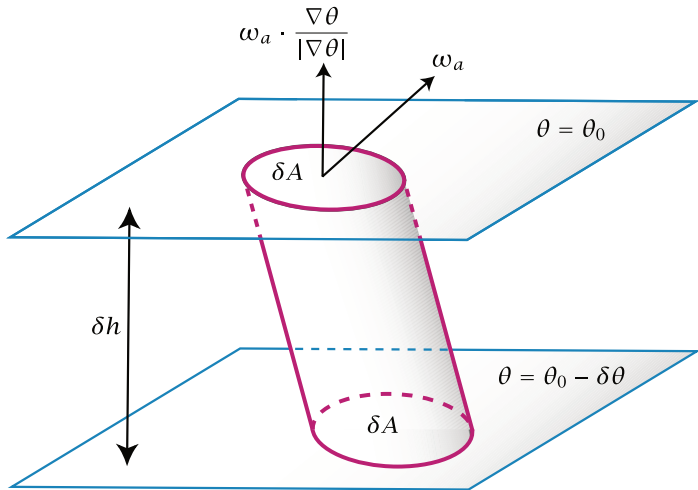


Fig. 4.8



$$\text{mass} = \rho \delta A \delta h = \text{constant}$$

$$\text{entropy} \propto \delta \theta = \delta h |\nabla \theta| = \text{constant}$$

Fig. 4.9

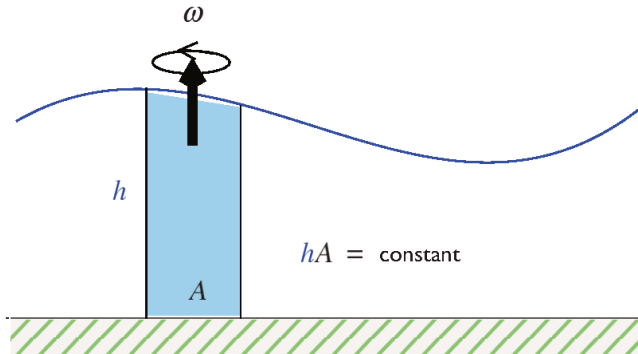


Fig. 4.10

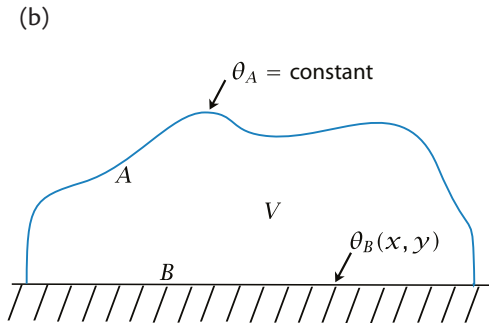
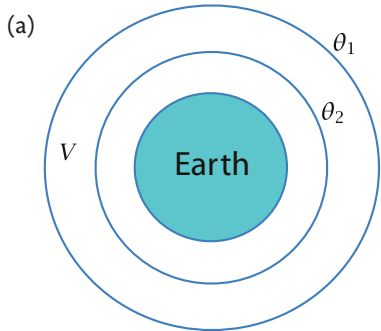


Fig. 4.11

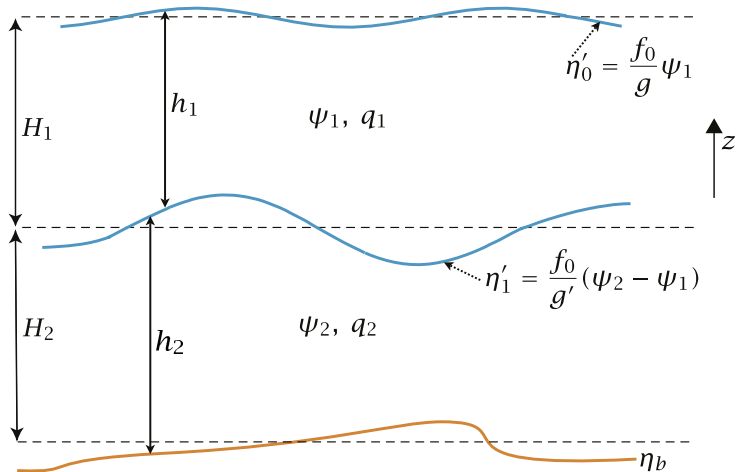


Fig. 5.1

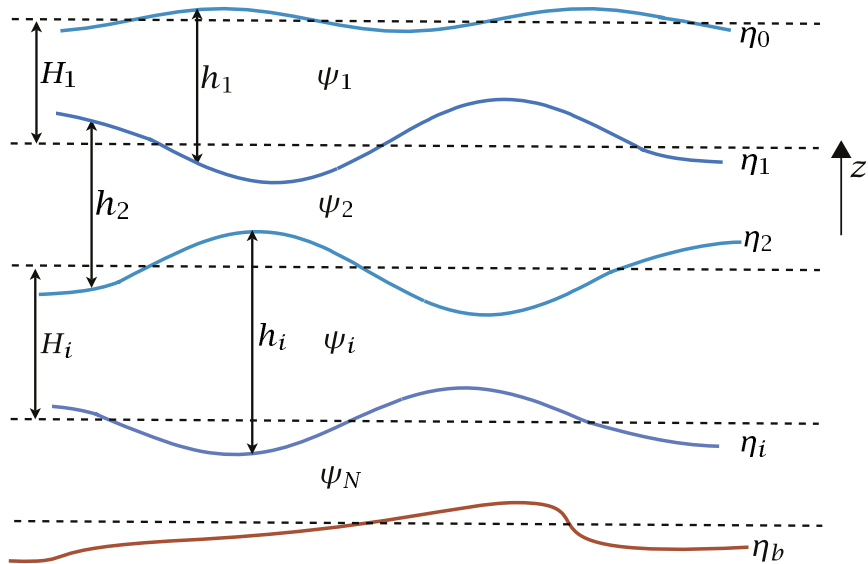


Fig. 5.2

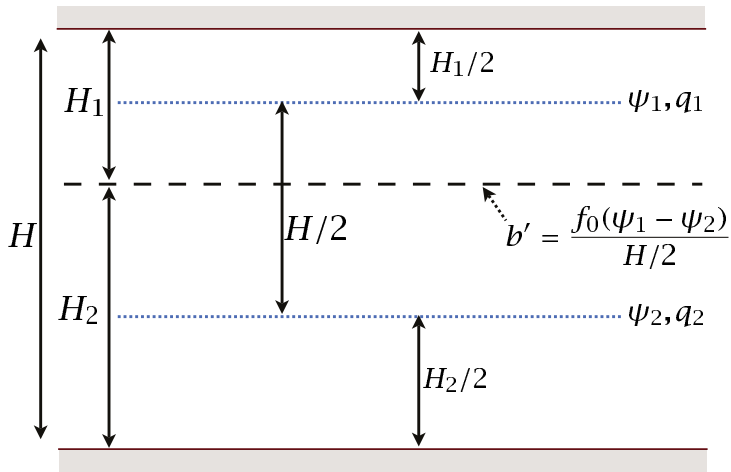


Fig. 5.3

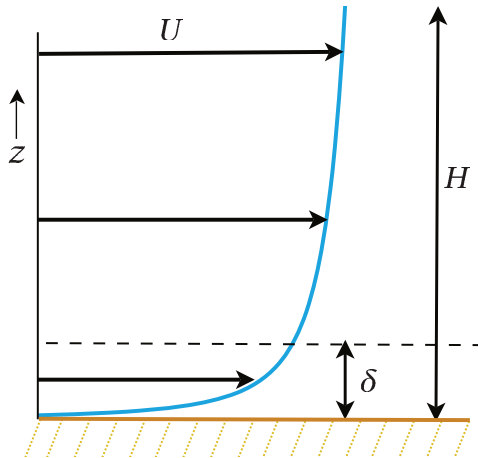


Fig. 5.4

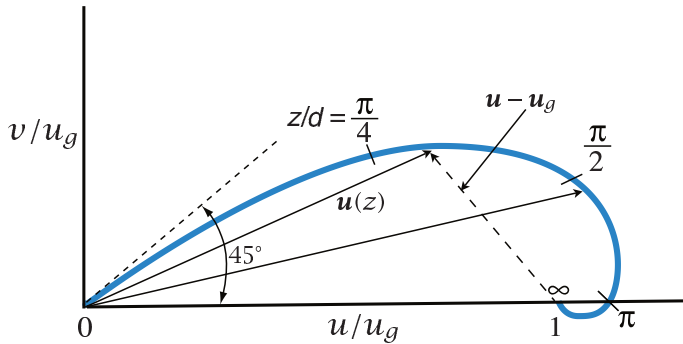


Fig. 5.5

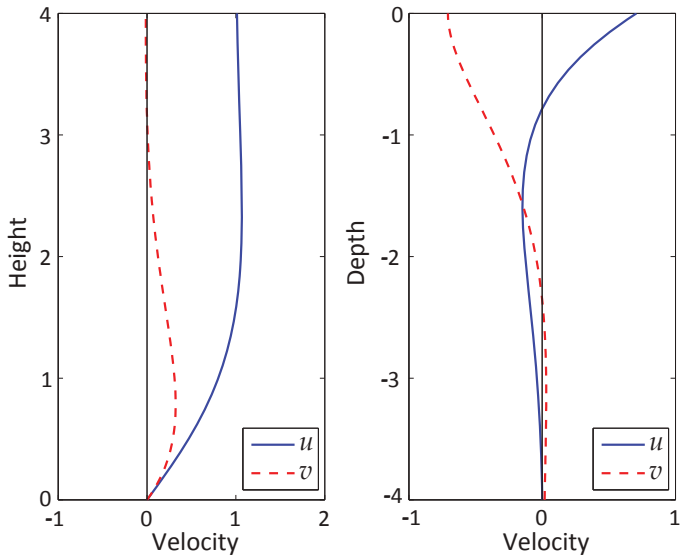


Fig. 5.6

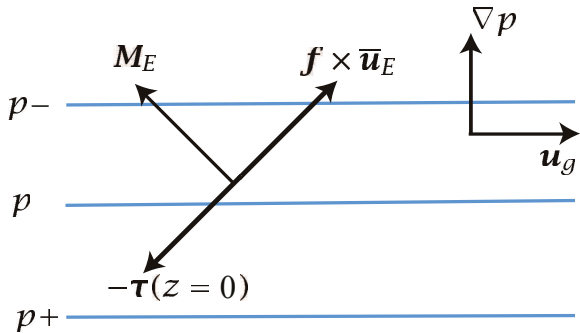


Fig. 5.7

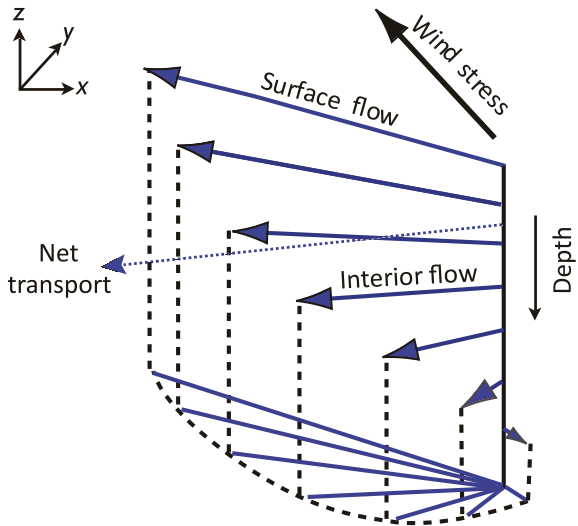


Fig. 5.8

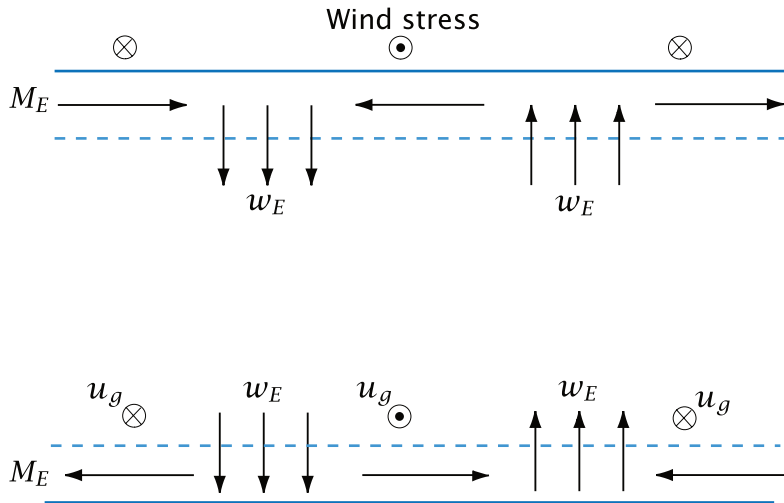


Fig. 5.9

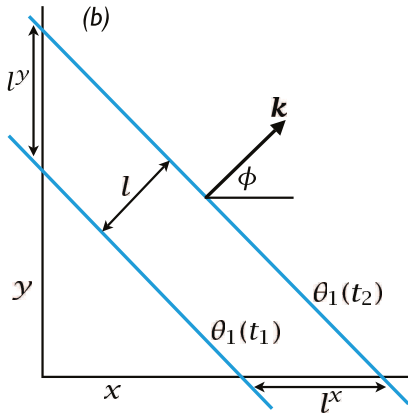
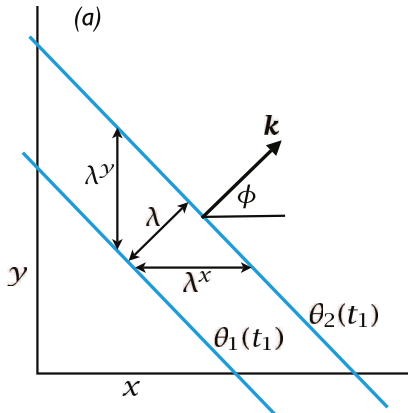


Fig. 6.1

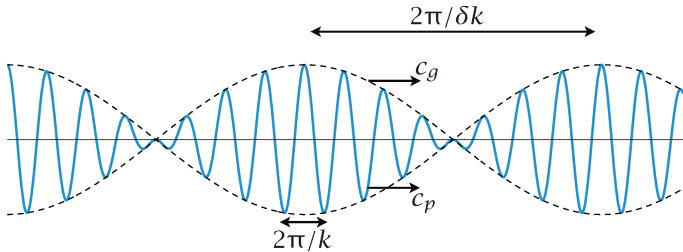


Fig. 6.2

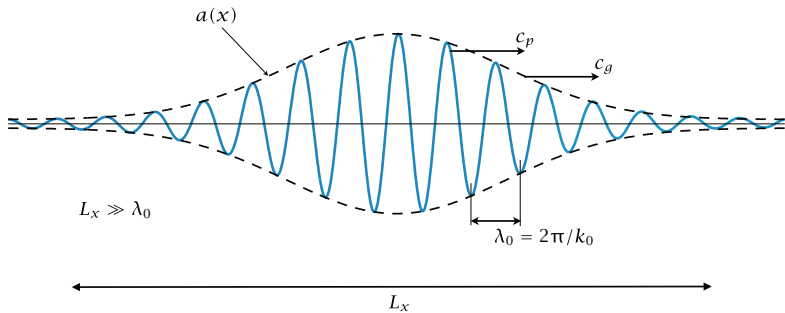


Fig. 6.3

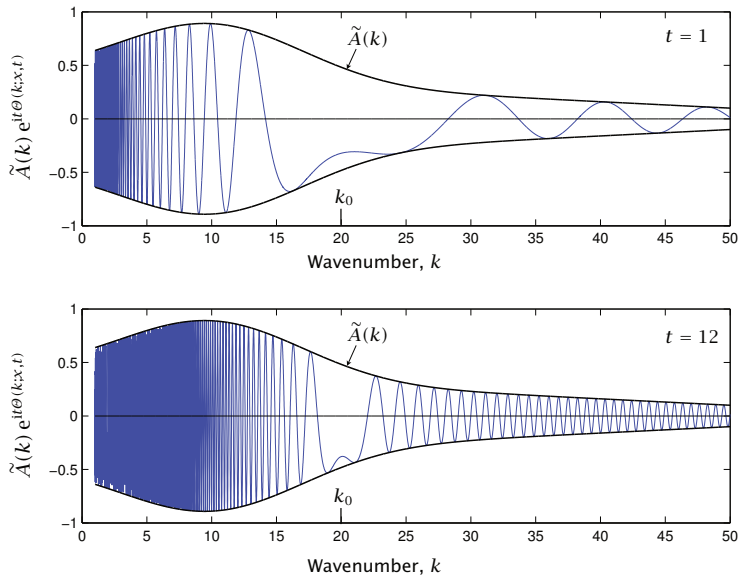


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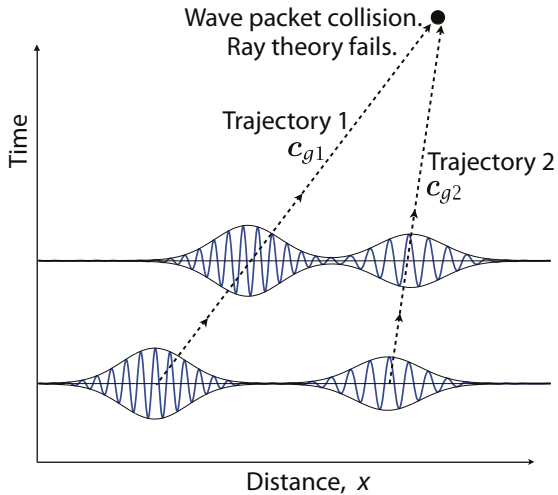


Fig. 6.5

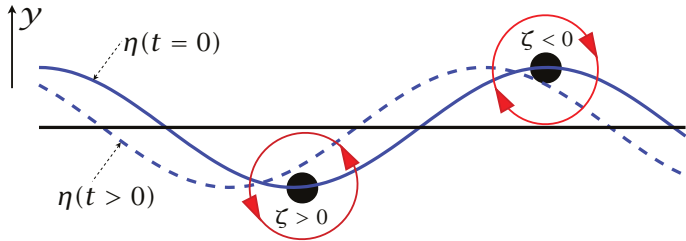


Fig. 6.6

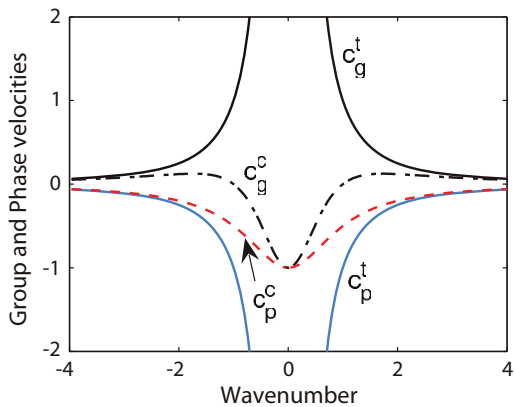
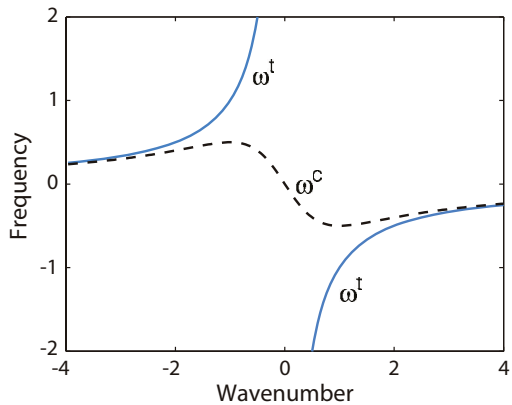


Fig. 6.7

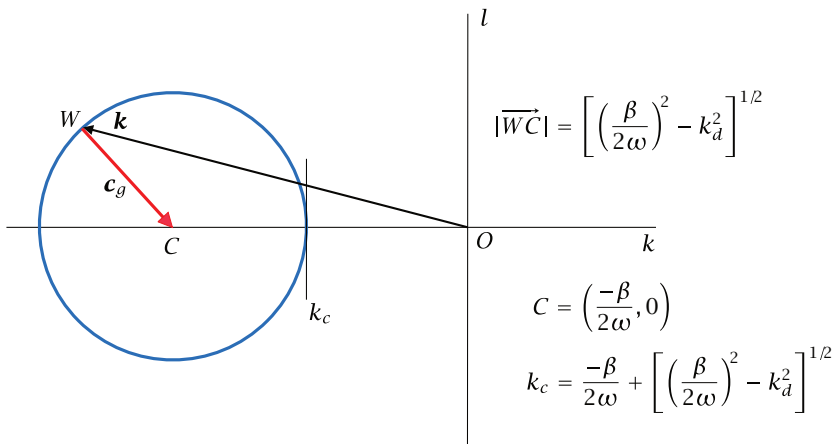


Fig. 6.8

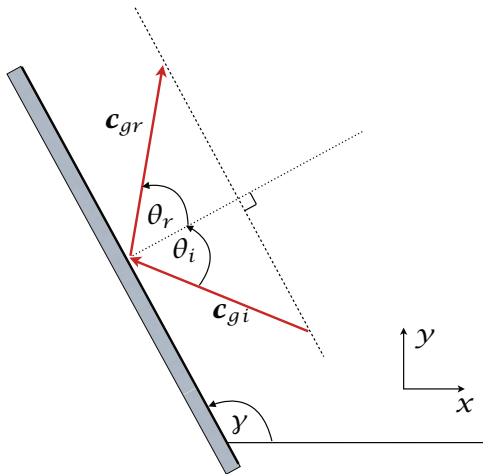


Fig. 6.9

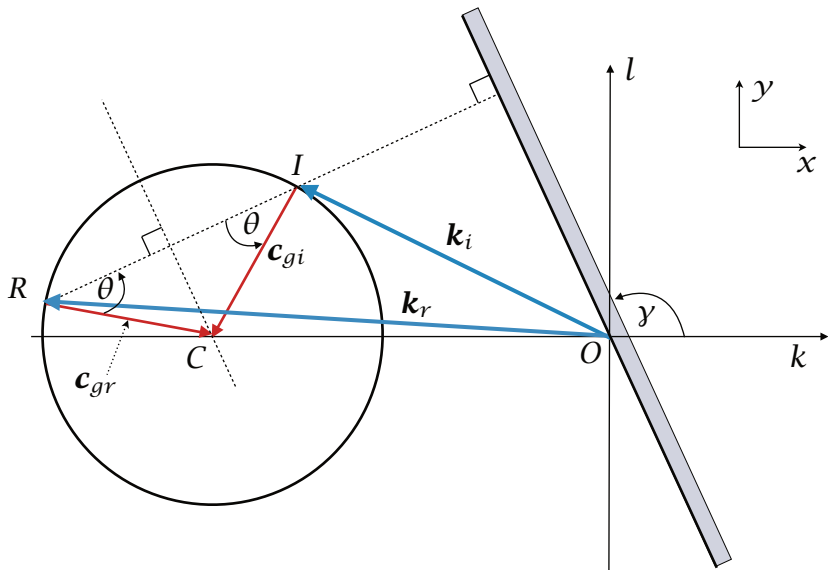


Fig. 6.10

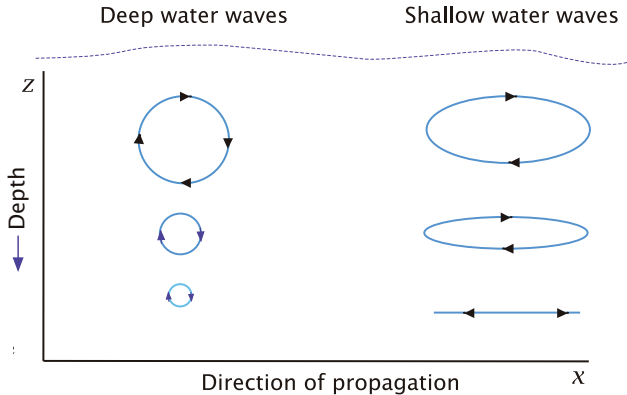


Fig. 7.1

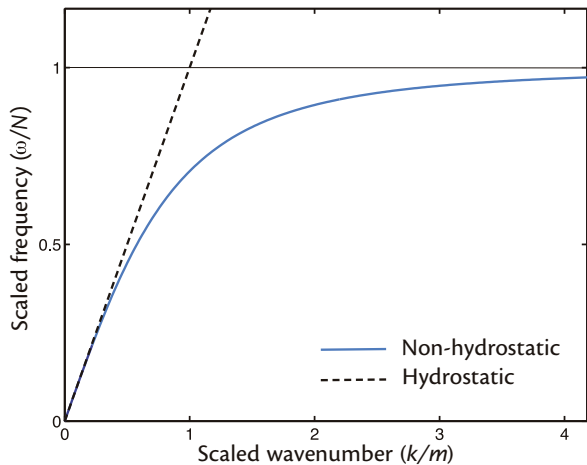


Fig. 7.2

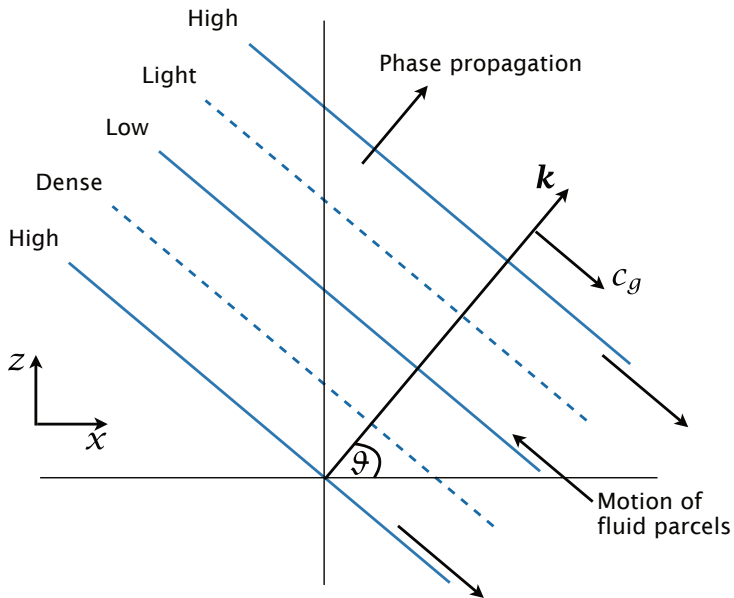


Fig. 7.3

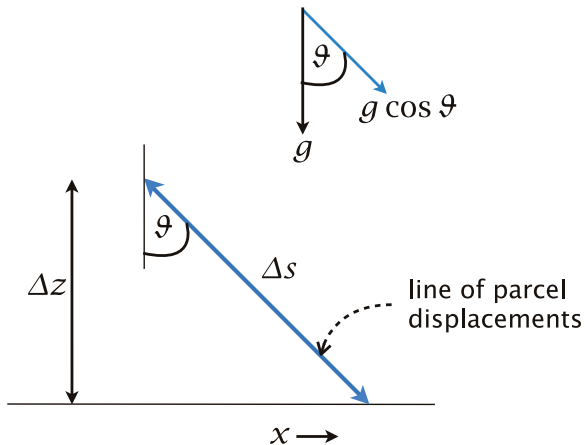


Fig. 7.4

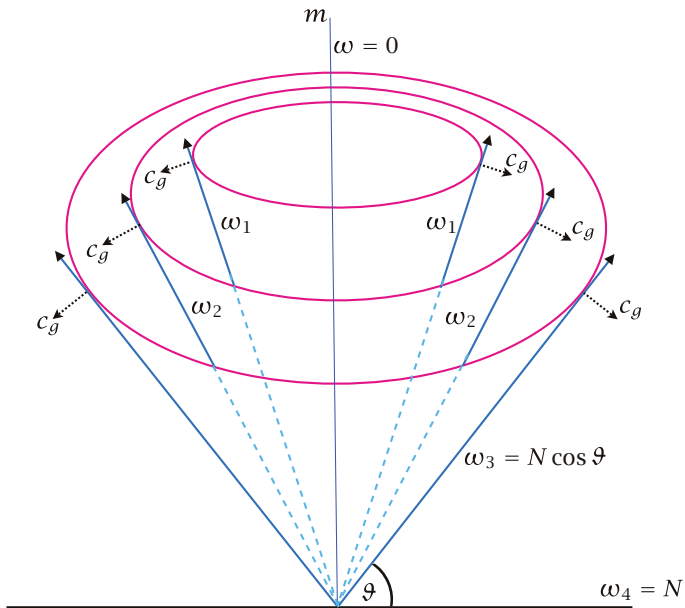


Fig. 7.5

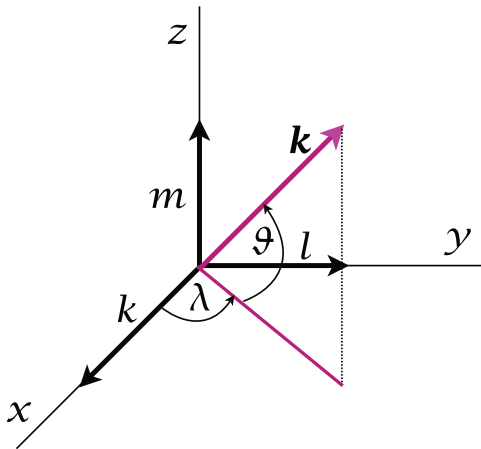


Fig. 7.6

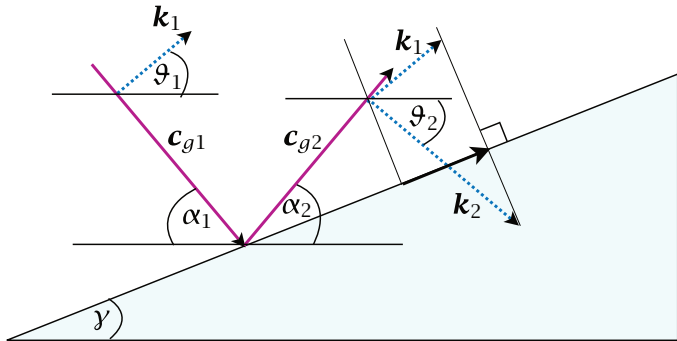


Fig. 7.7

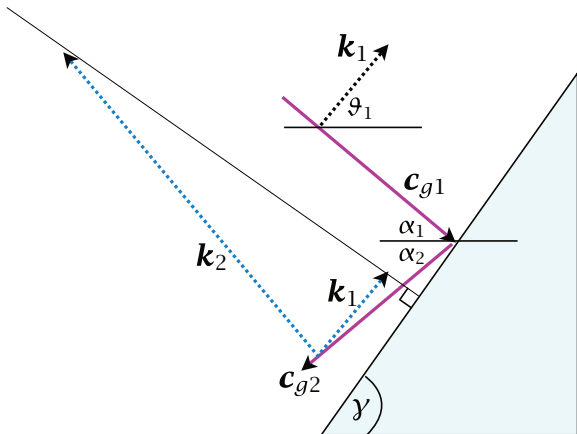


Fig. 7.8

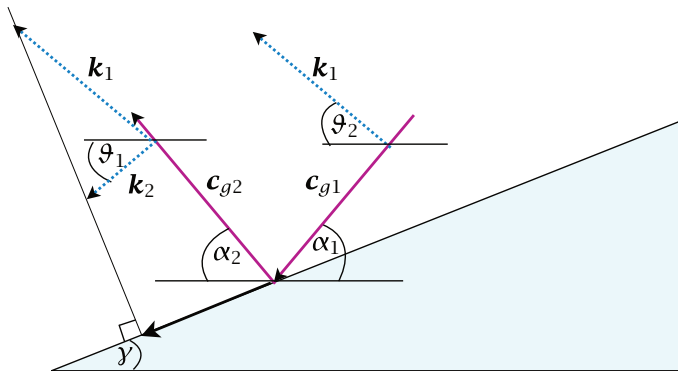


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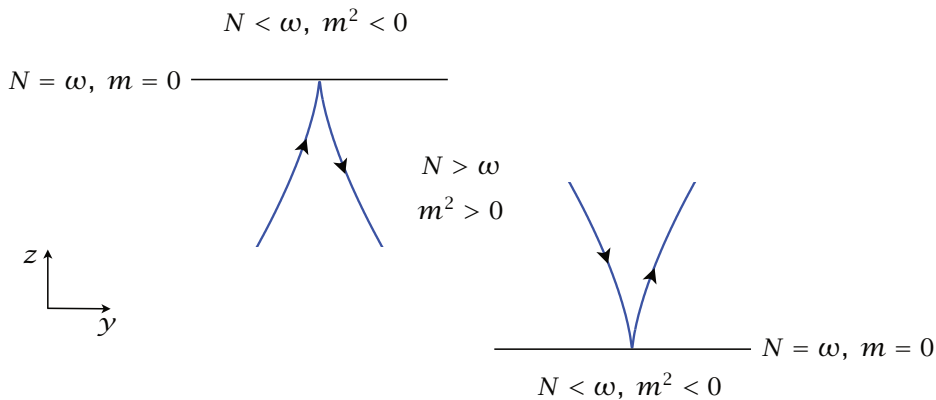


Fig. 7.10

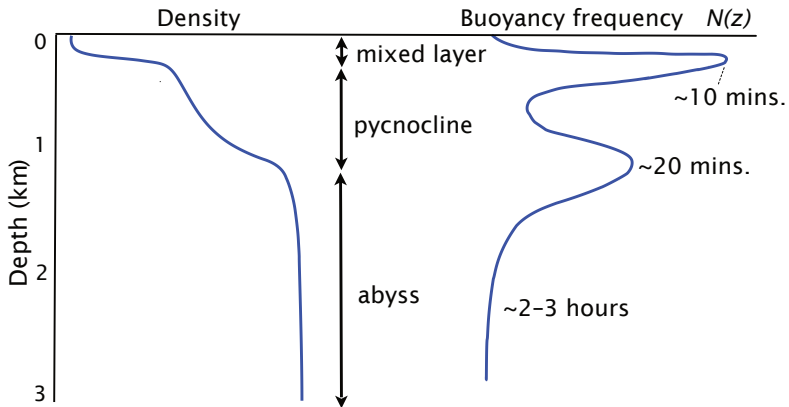


Fig. 7.11

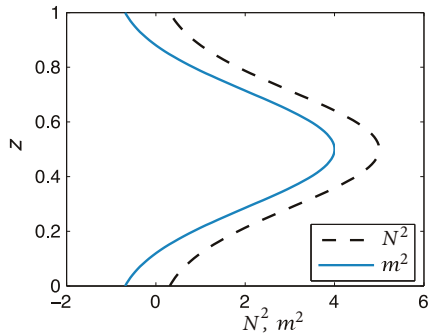
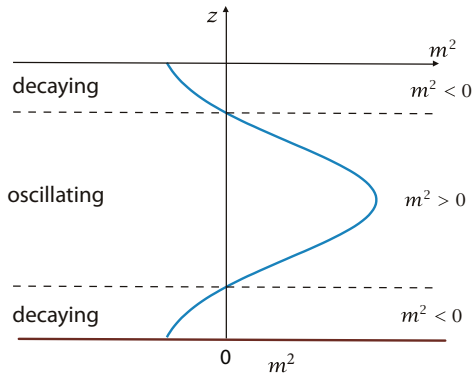


Fig. 7.12

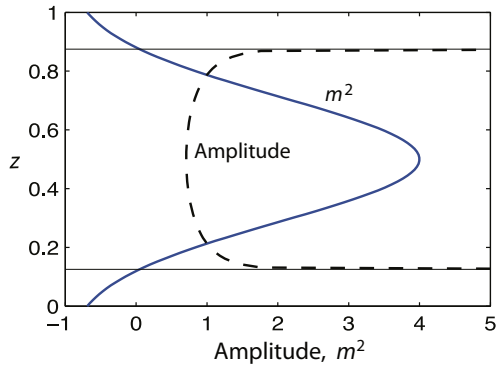
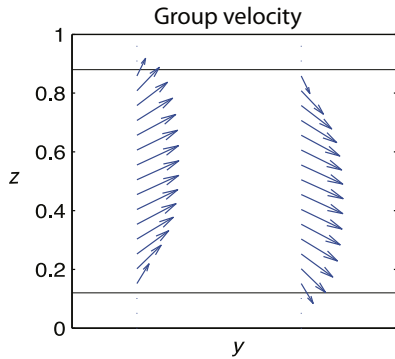


Fig. 7.13

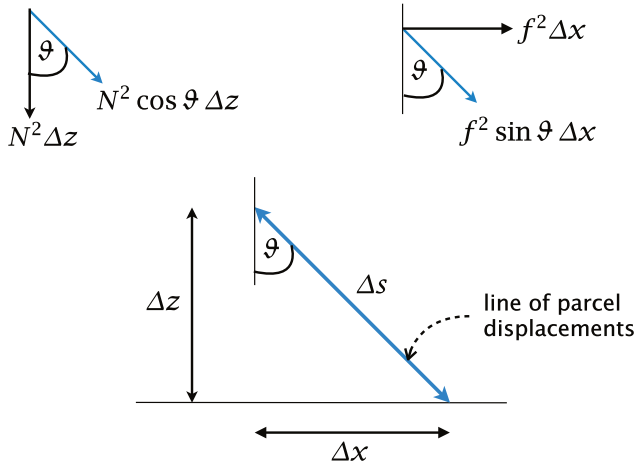


Fig. 7.14

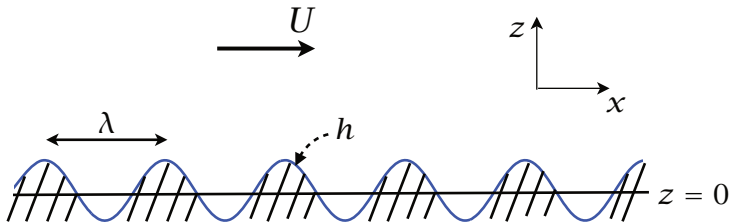


Fig. 7.15

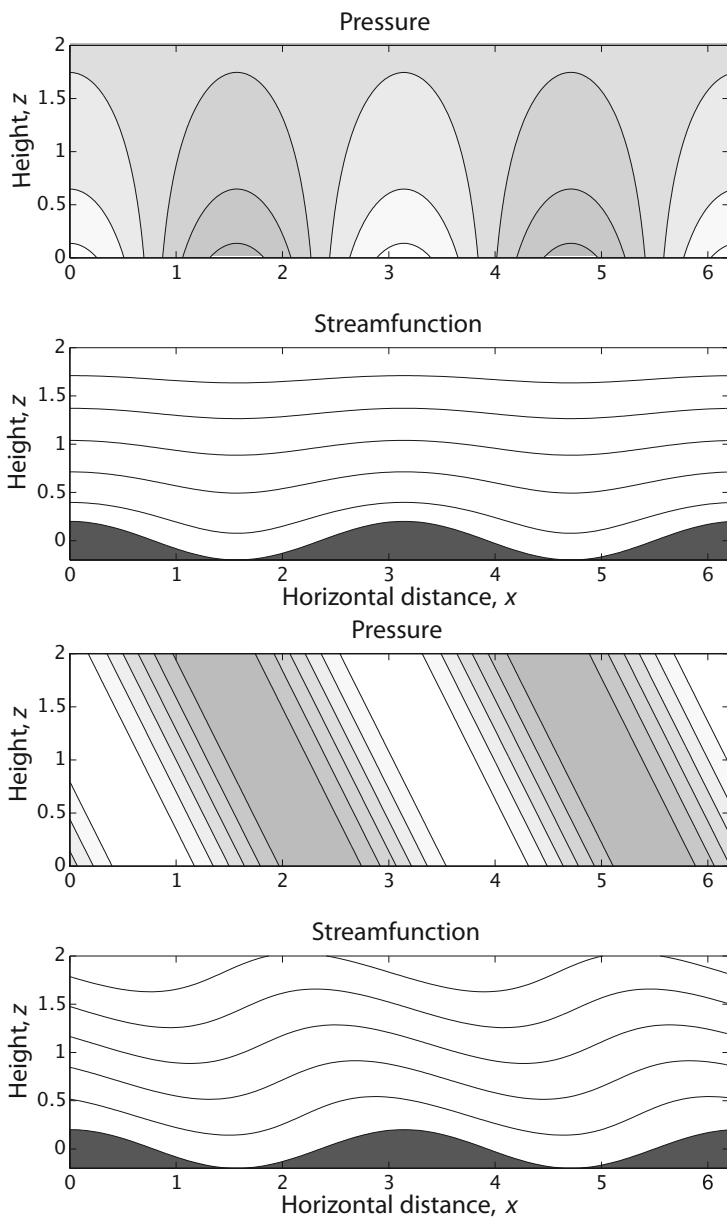


Fig. 7.16

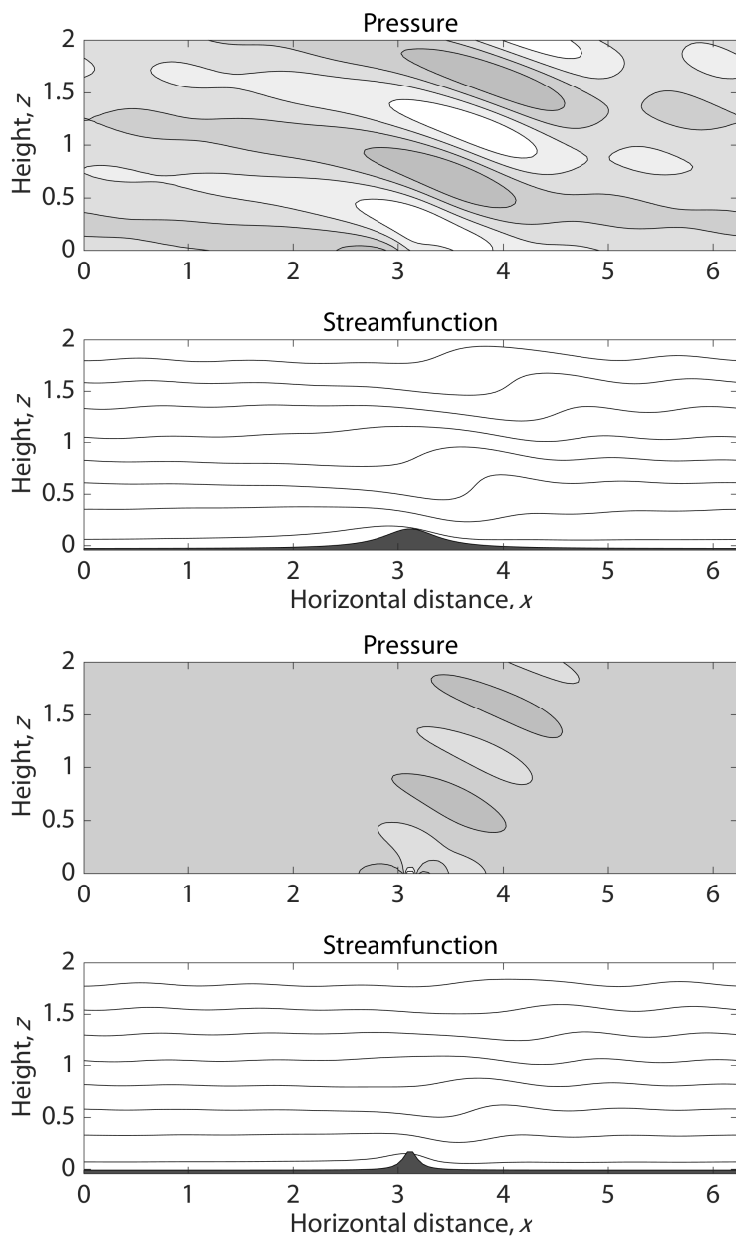


Fig. 7.17

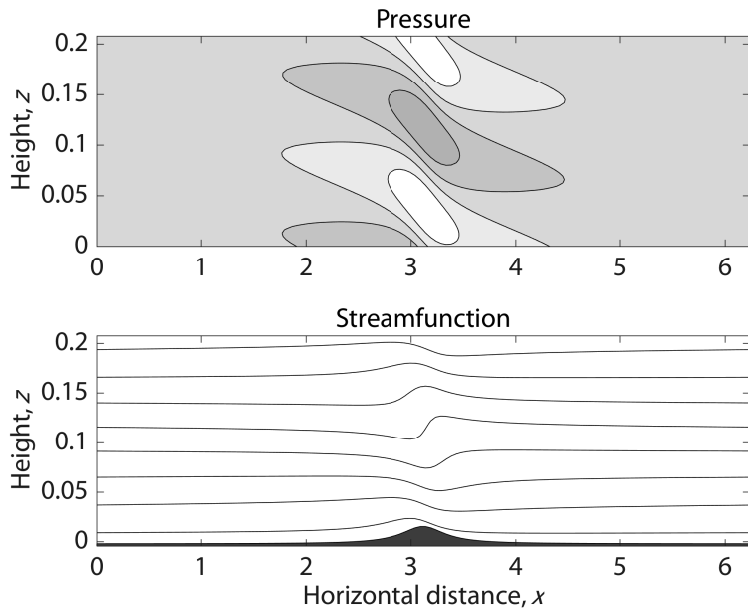


Fig. 7.18

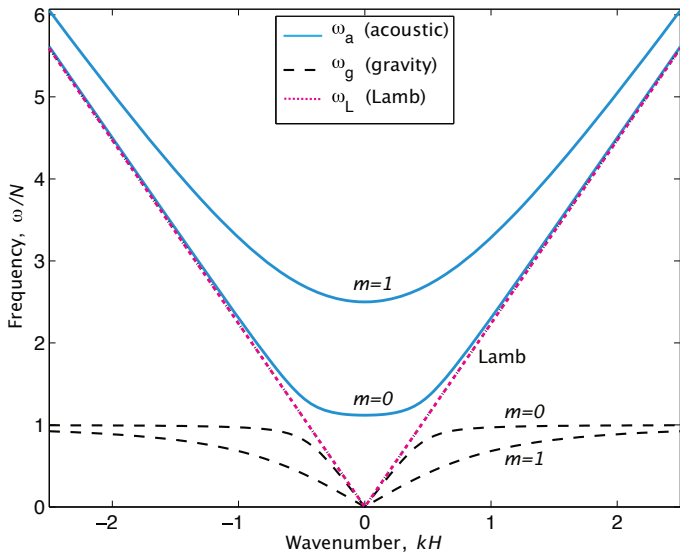
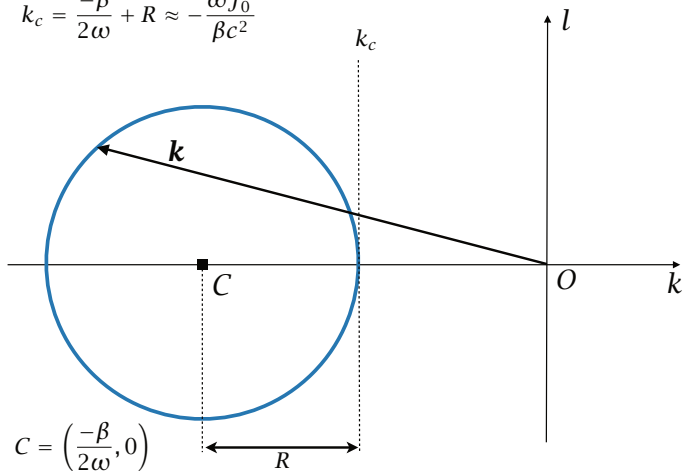


Fig. 7.19

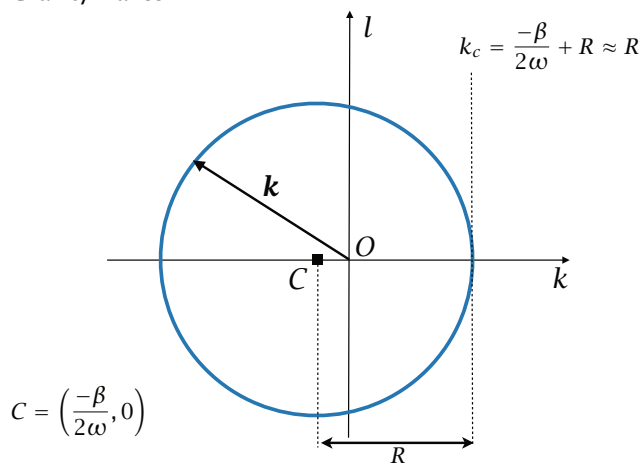
Rossby waves

$$k_c = \frac{-\beta}{2\omega} + R \approx -\frac{\omega f_0^2}{\beta c^2}$$



$$R = \left[\left(\frac{\beta}{2\omega} \right)^2 + \frac{\omega^2 - f_0^2}{c^2} \right]^{1/2} \approx \left[\left(\frac{\beta}{2\omega} \right)^2 - \frac{f_0^2}{c^2} \right]^{1/2}$$

Gravity waves



$$R = \left[\left(\frac{\beta}{2\omega} \right)^2 + \frac{\omega^2 - f_0^2}{c^2} \right]^{1/2} \approx \left[\frac{\omega^2 - f_0^2}{c^2} \right]^{1/2}$$

Fig. 8.1

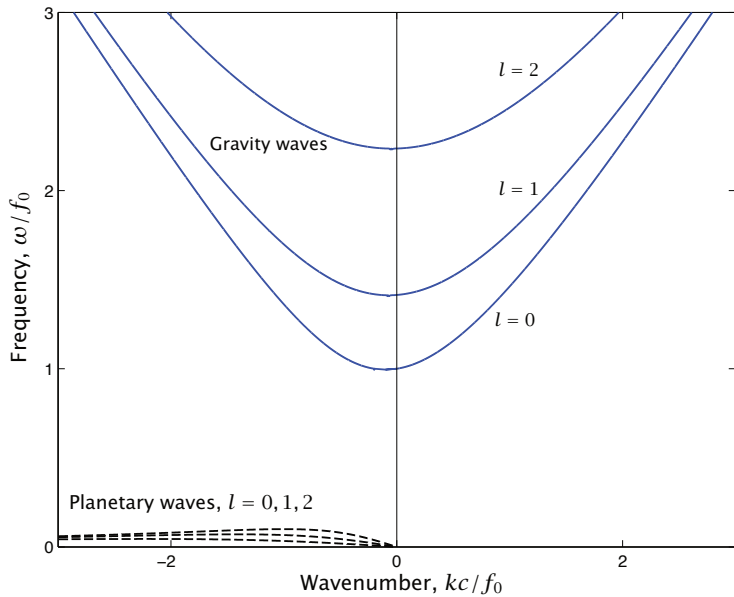


Fig. 8.2

Locus of wavenumbers of
given frequency ω

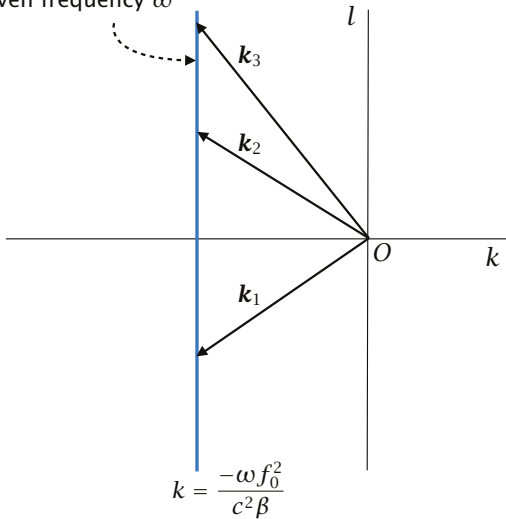


Fig. 8.3

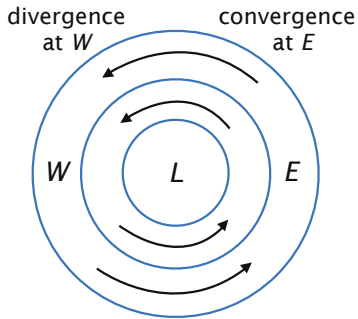
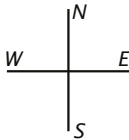
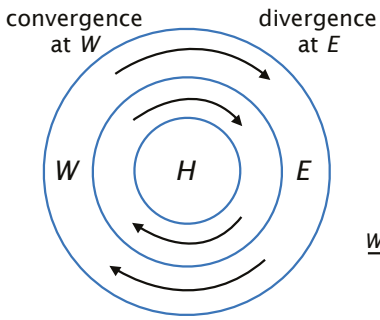


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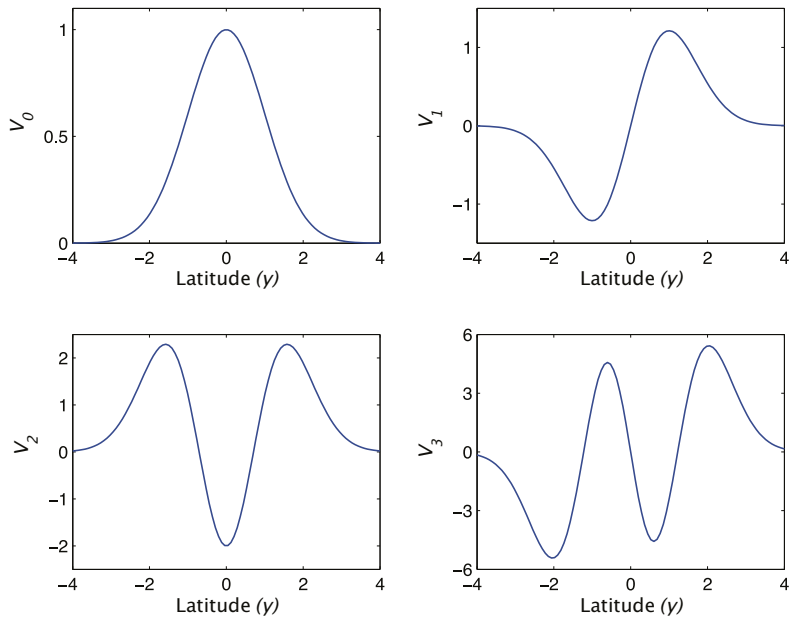


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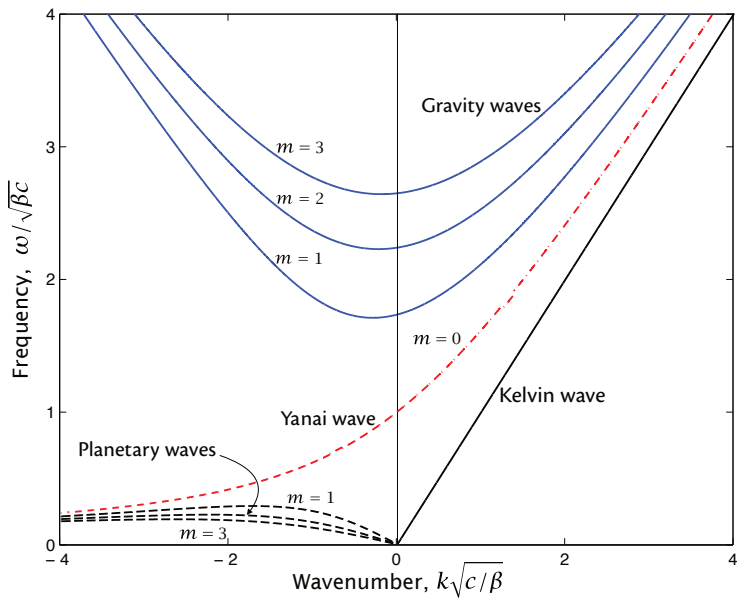


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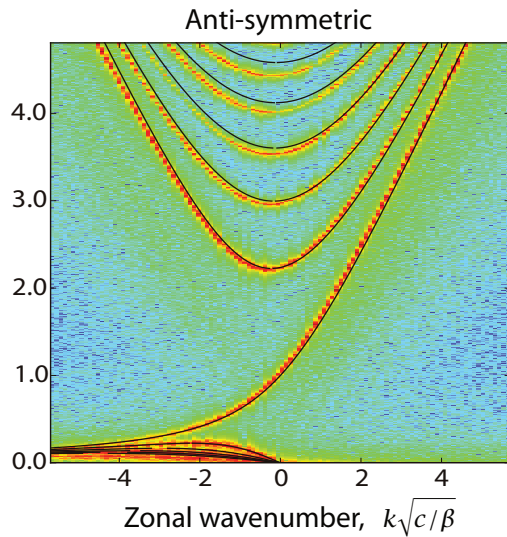
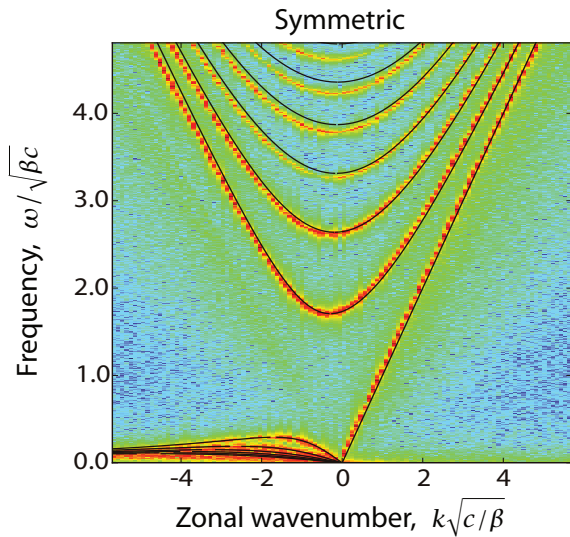


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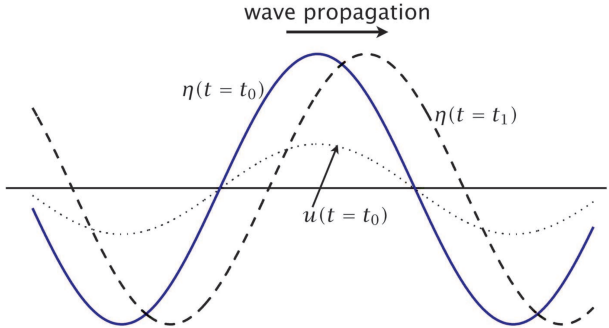


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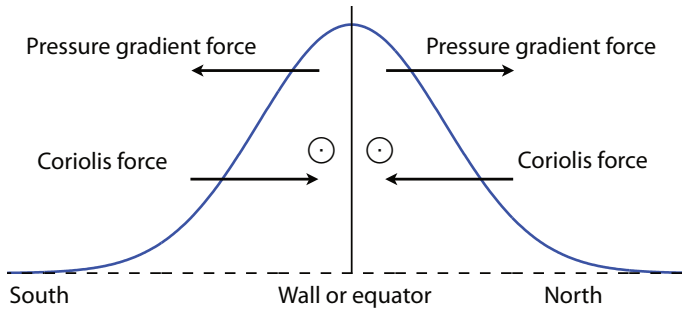


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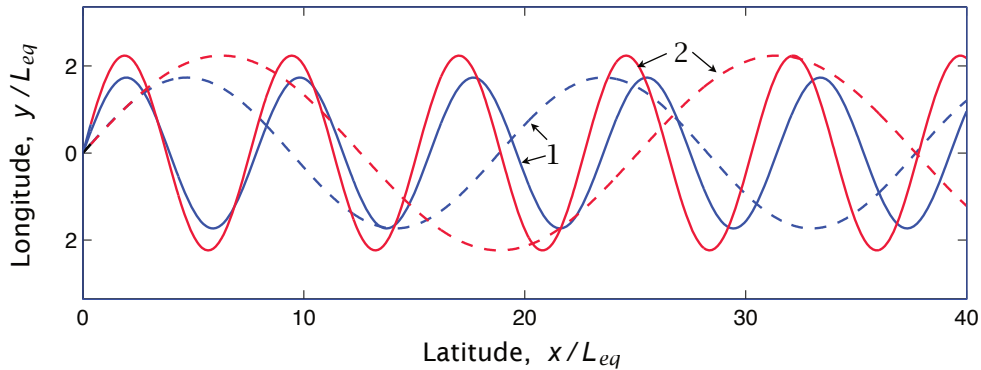


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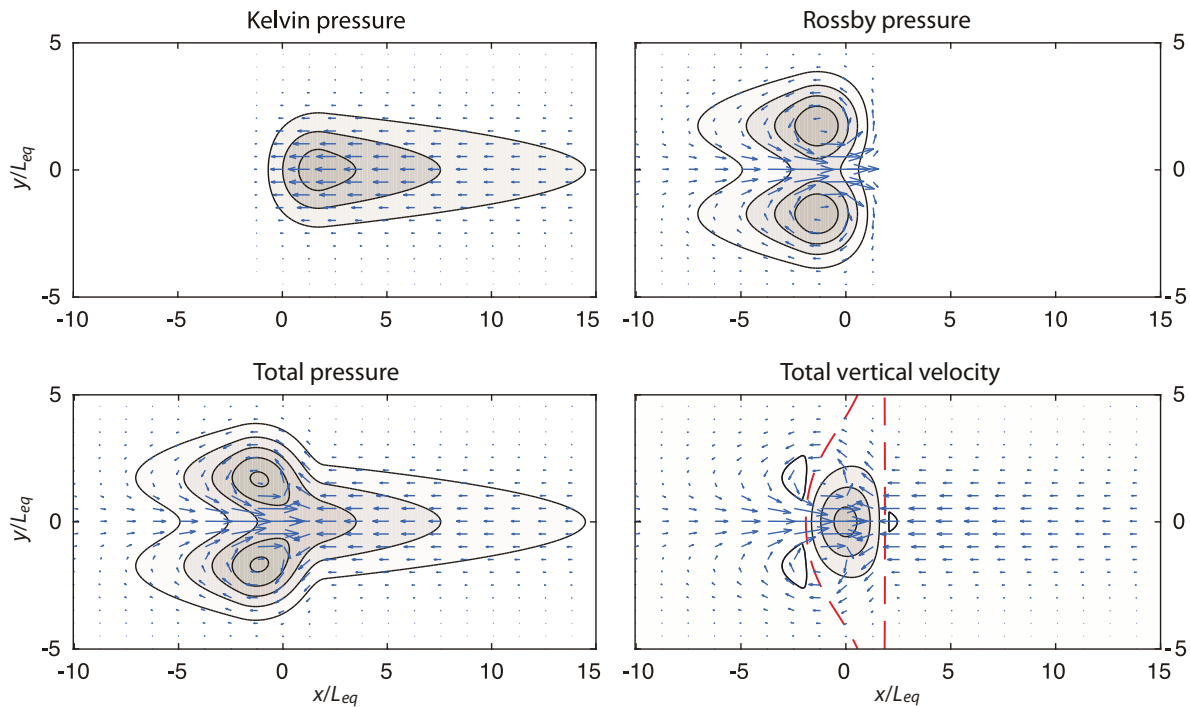


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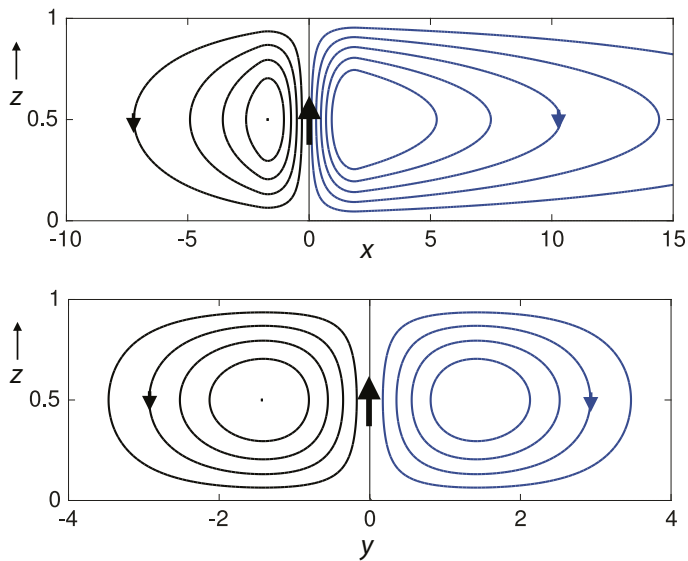


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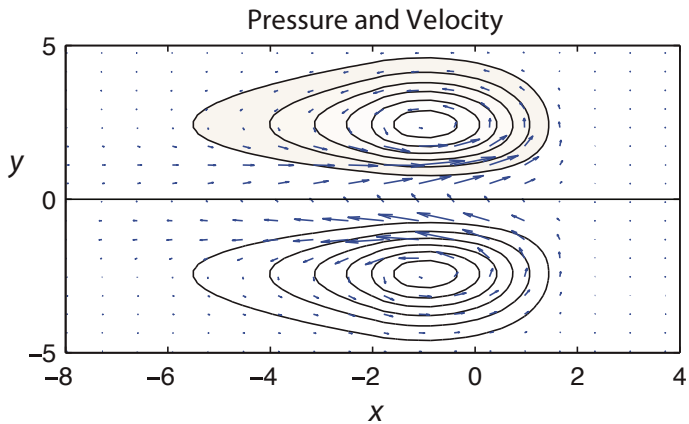


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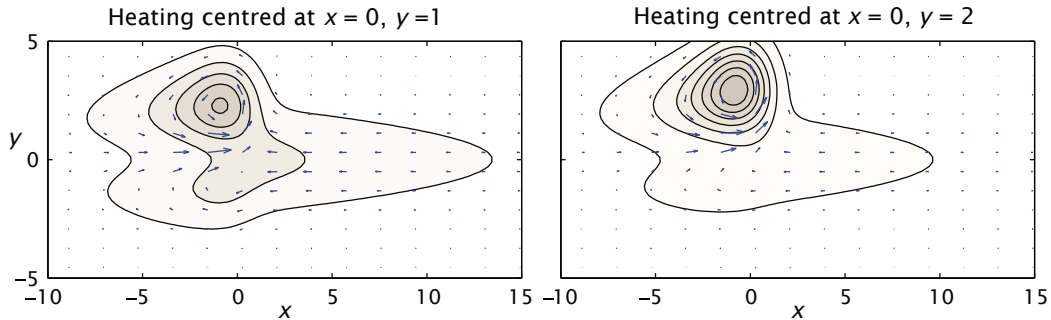


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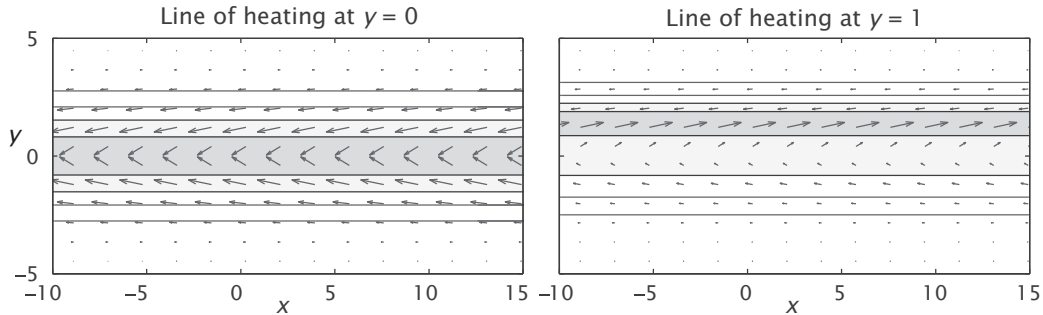


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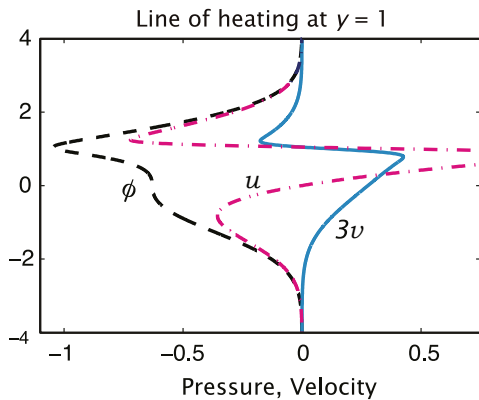
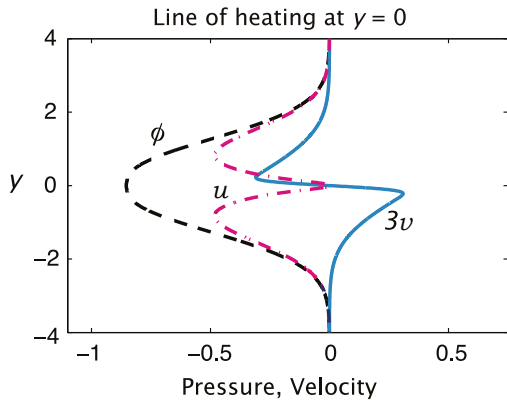


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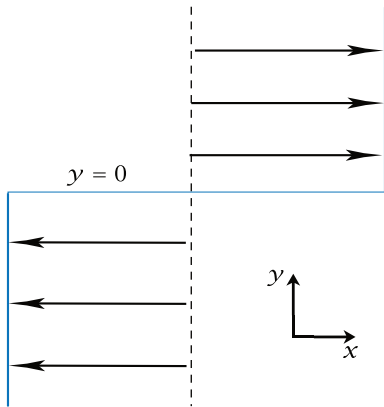


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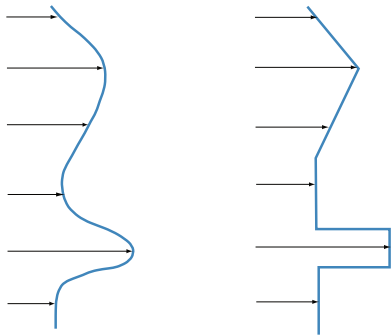


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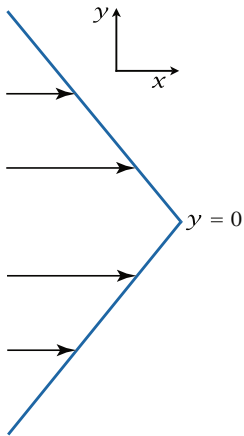


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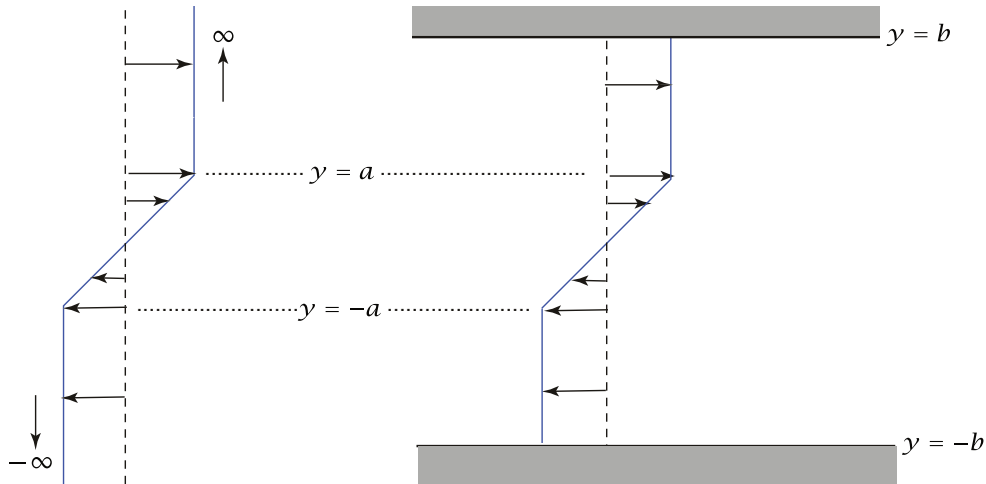


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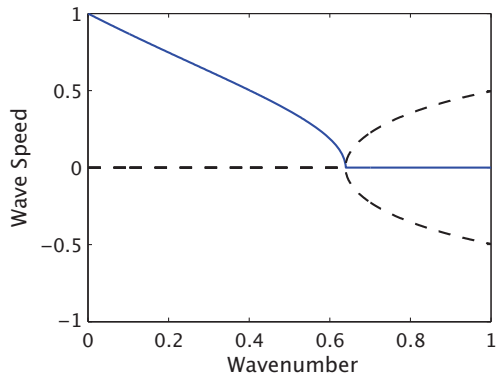
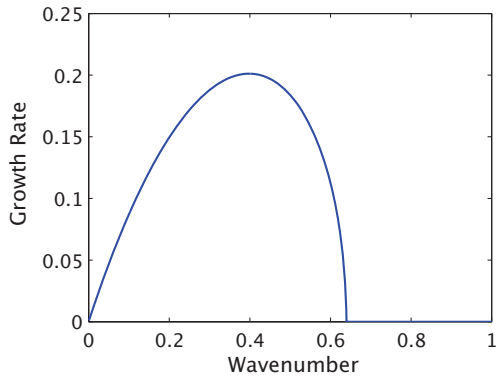


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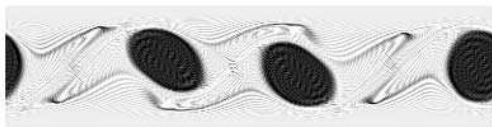
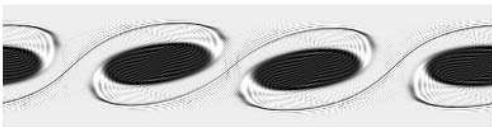


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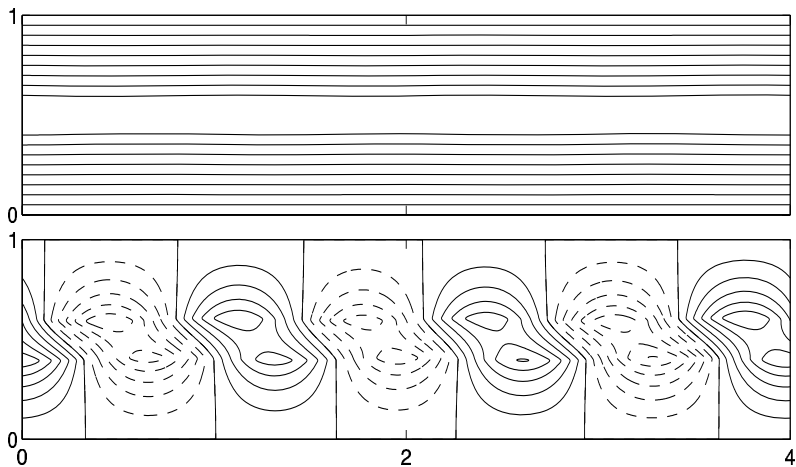


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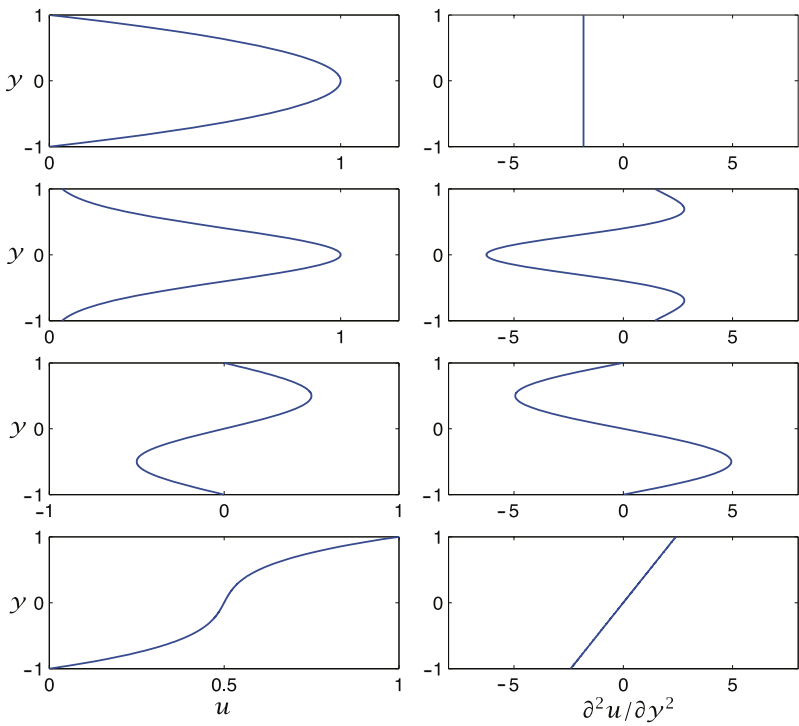


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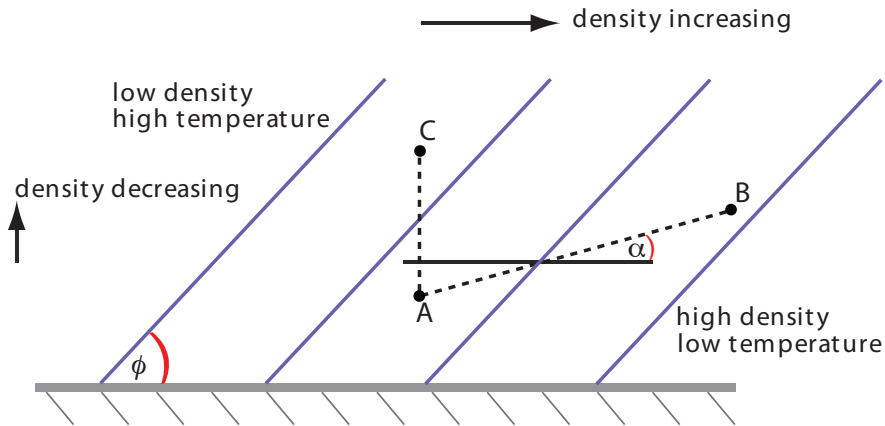


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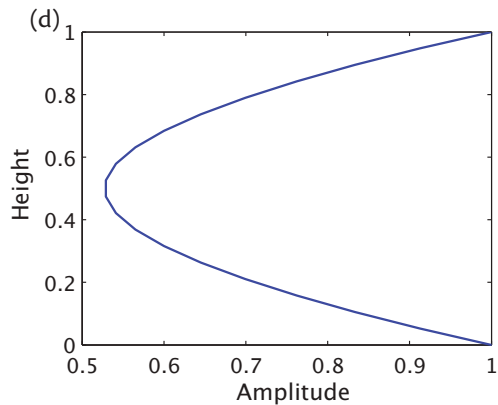
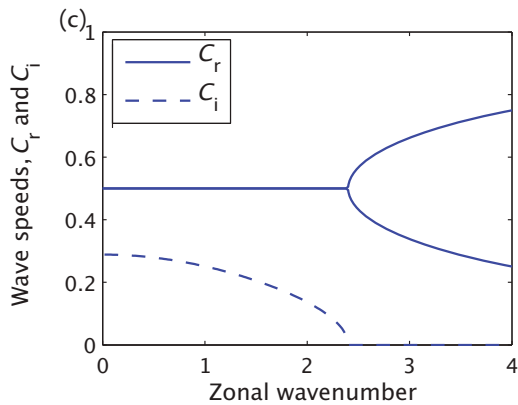
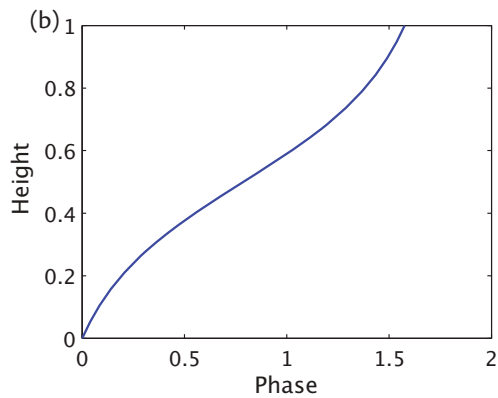
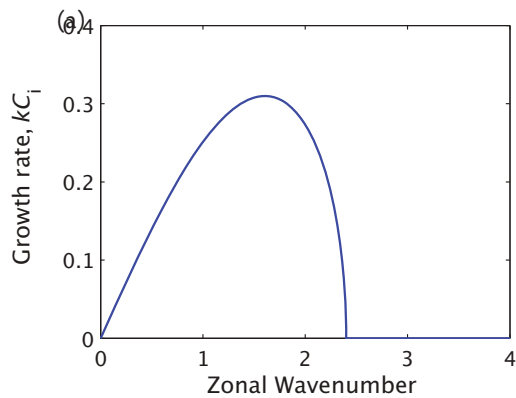


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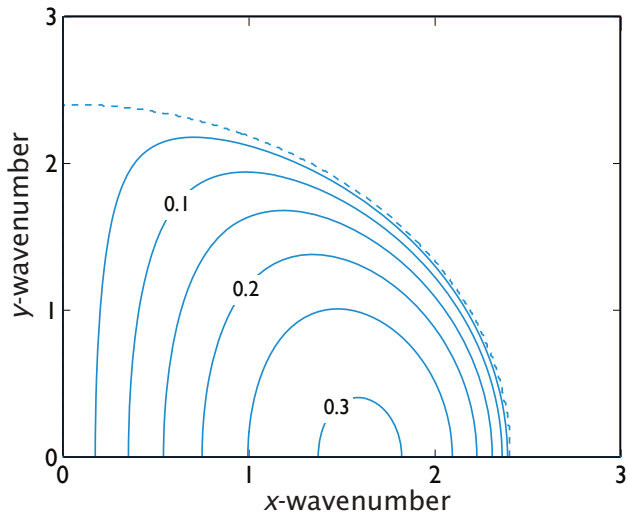


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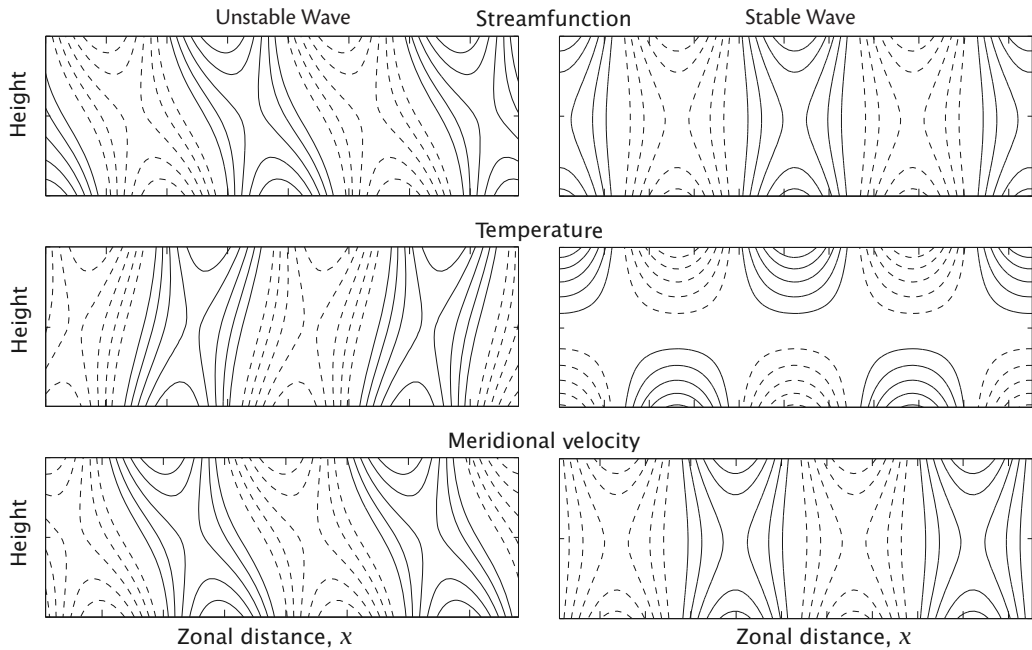


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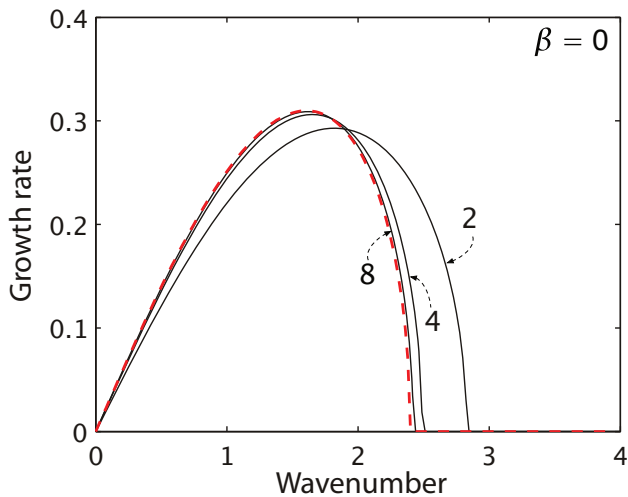


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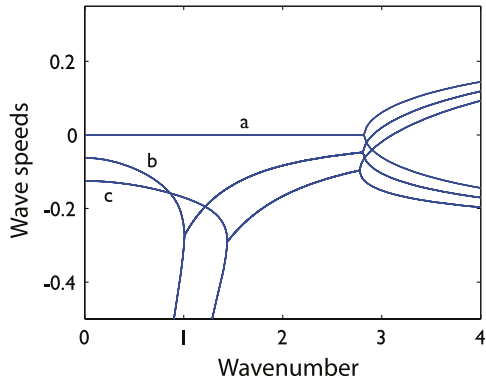
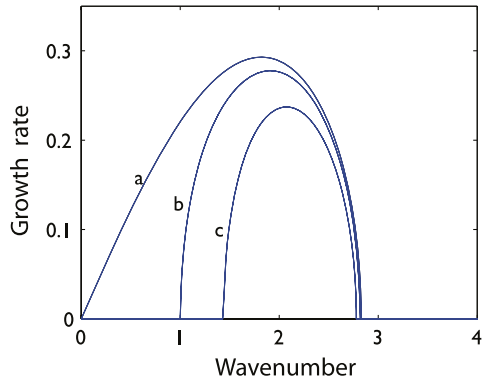


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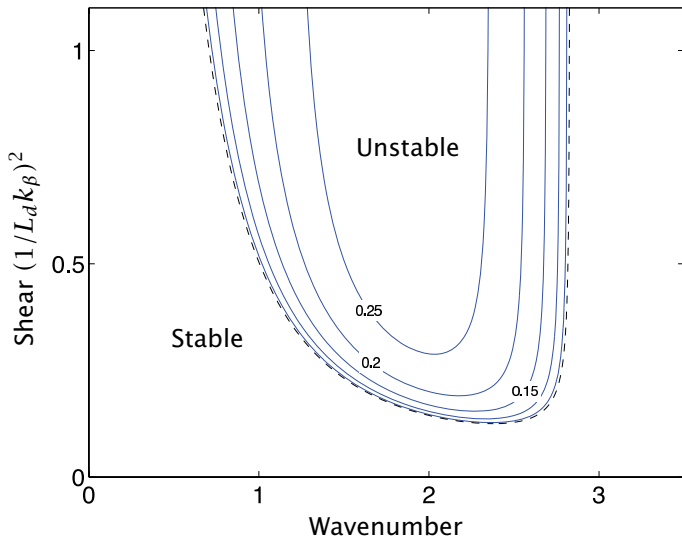


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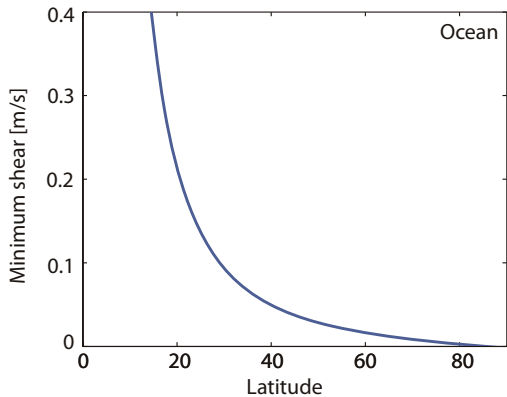
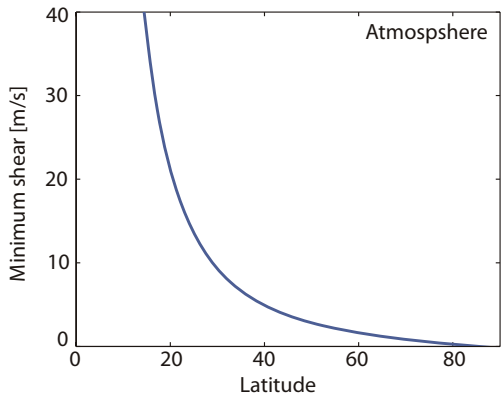


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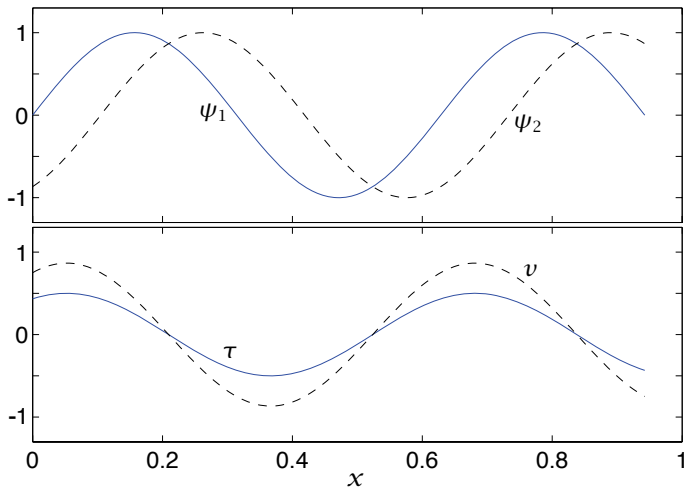


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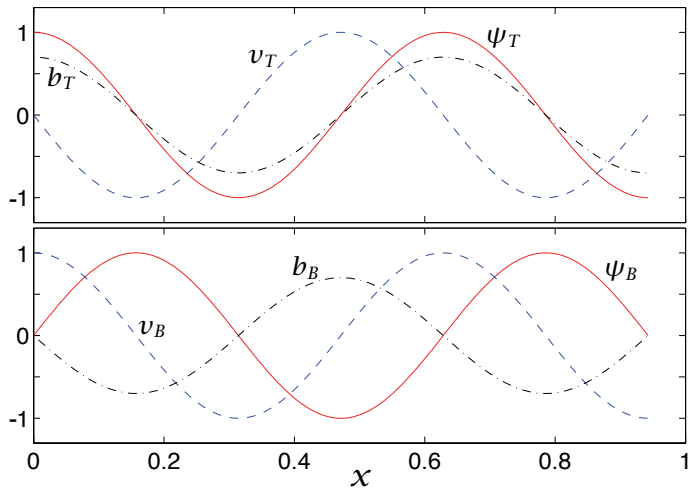


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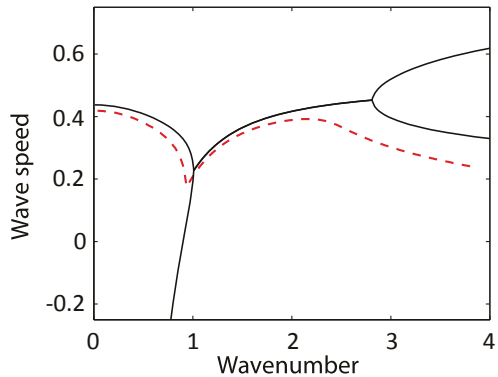
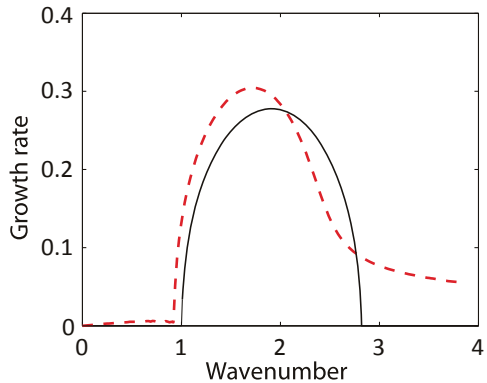


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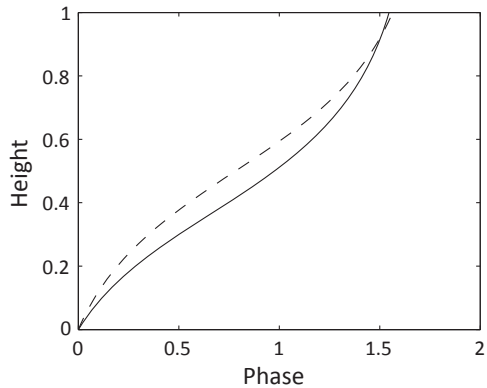
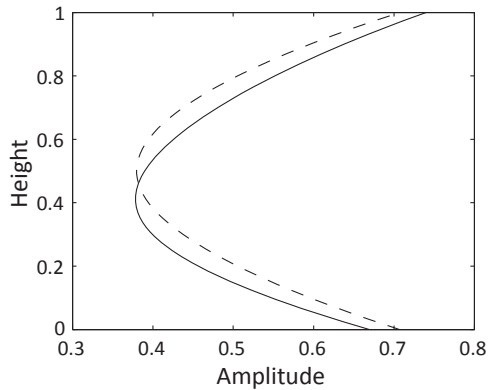


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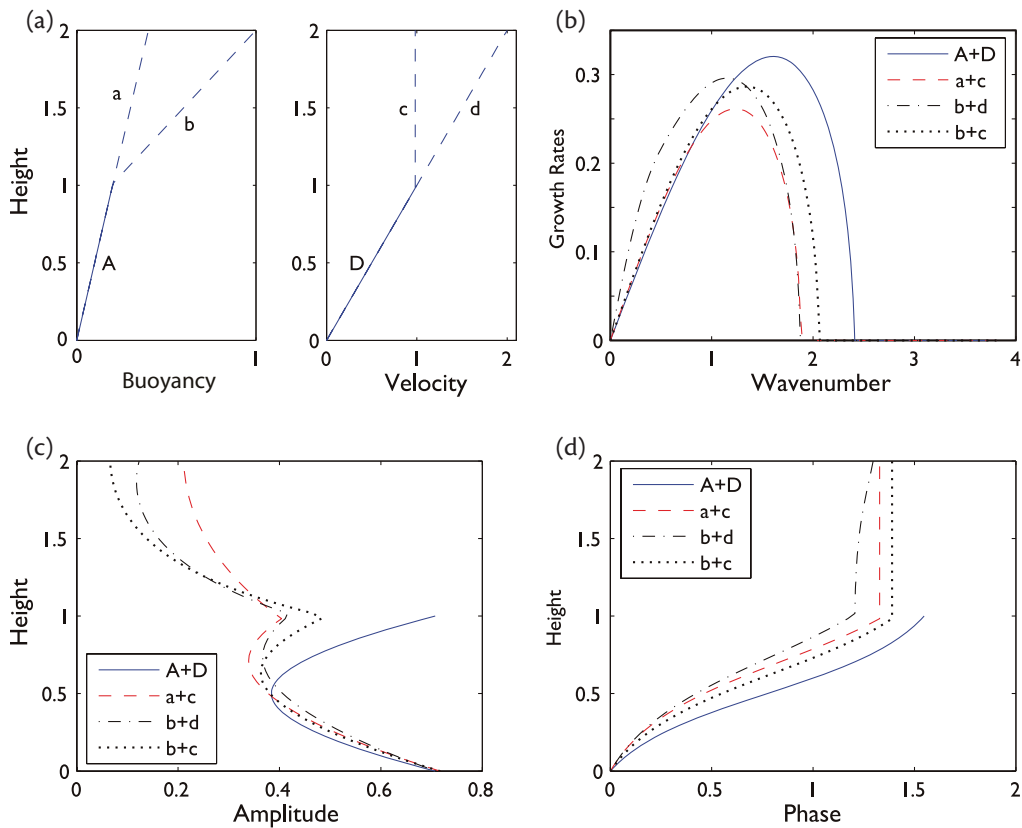


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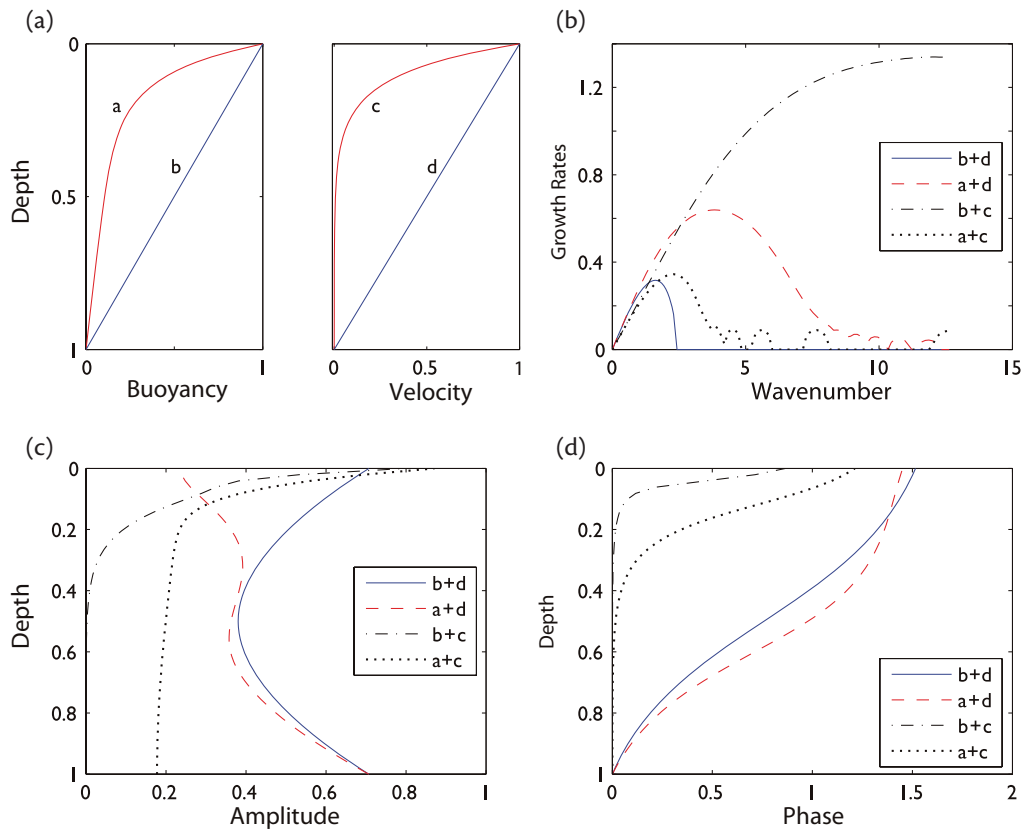


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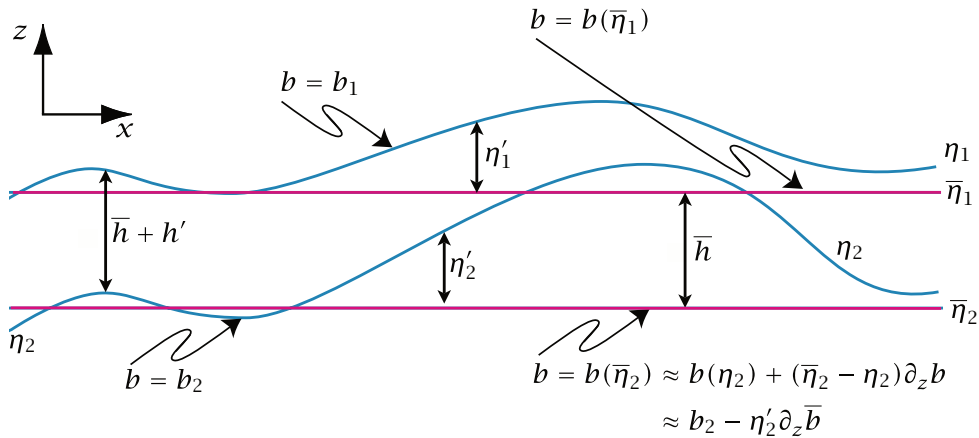


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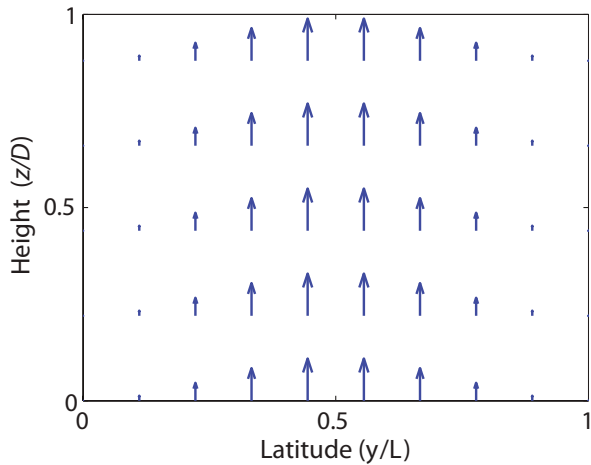


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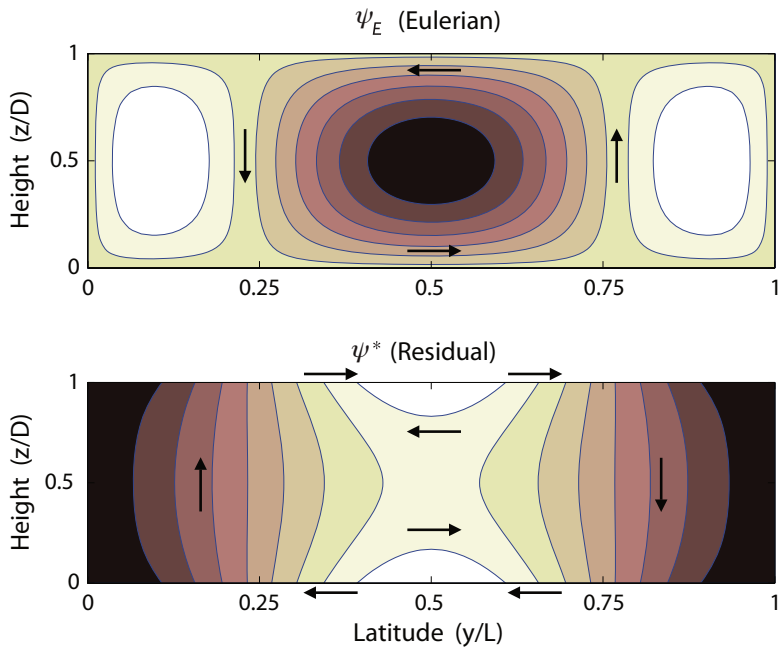


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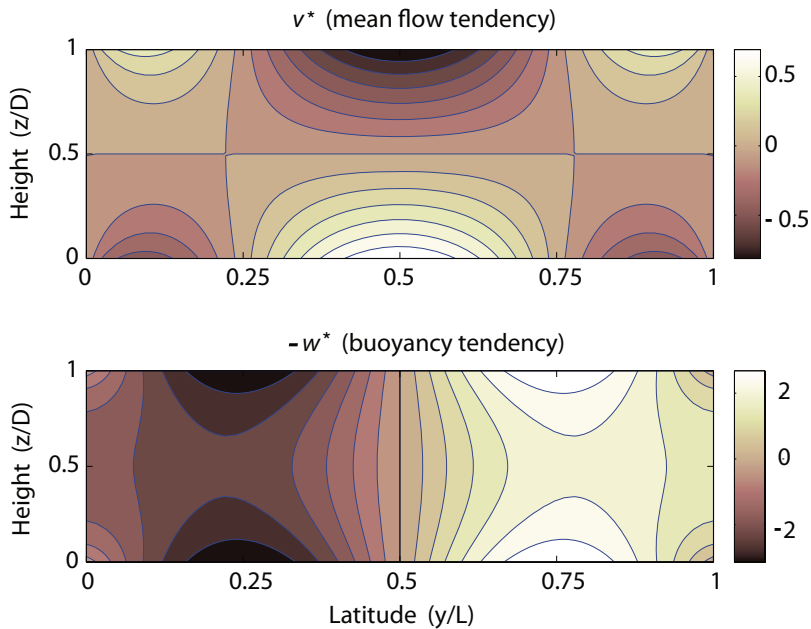


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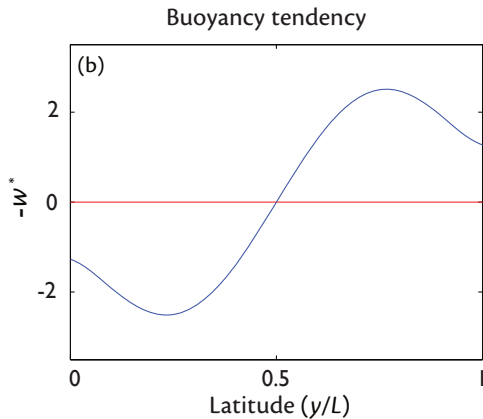
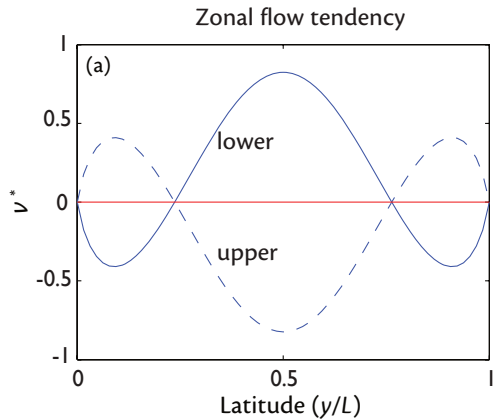


Fig. 10.5

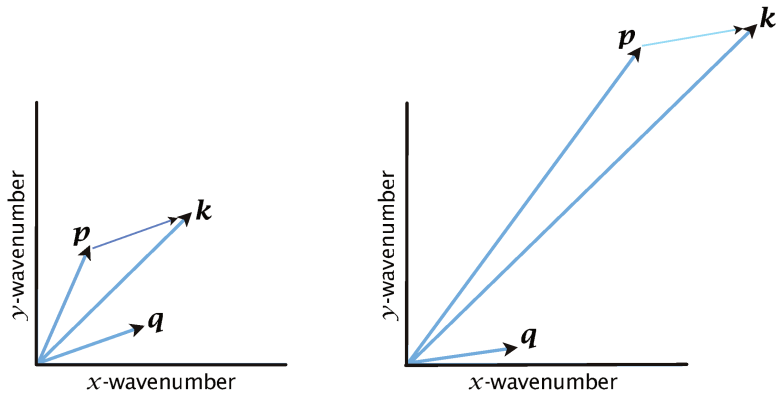


Fig. 11.1

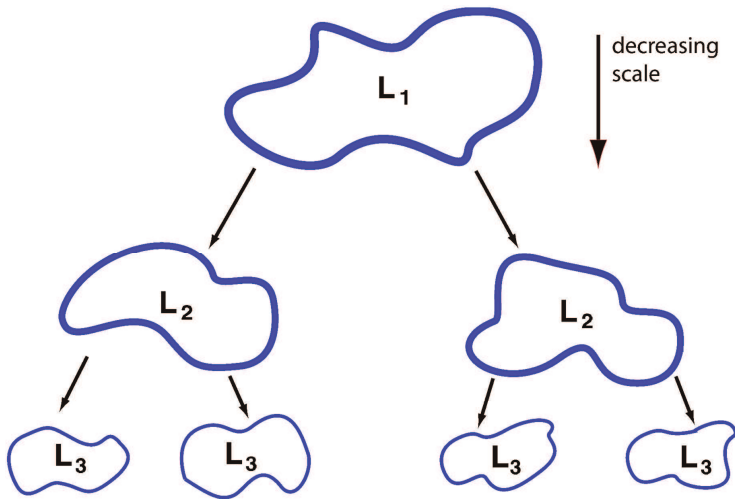


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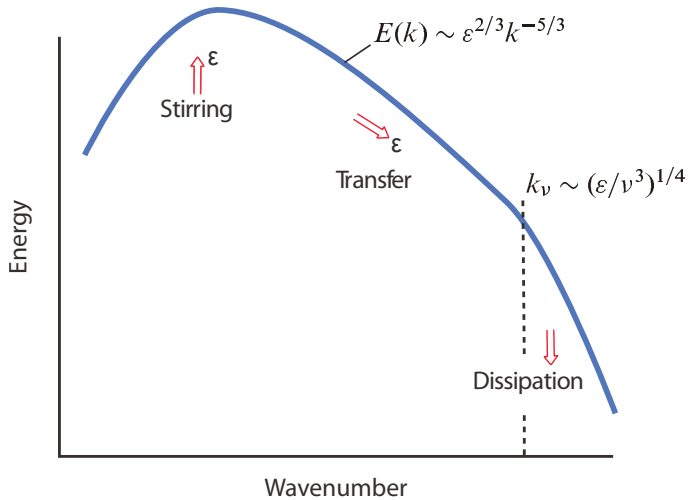


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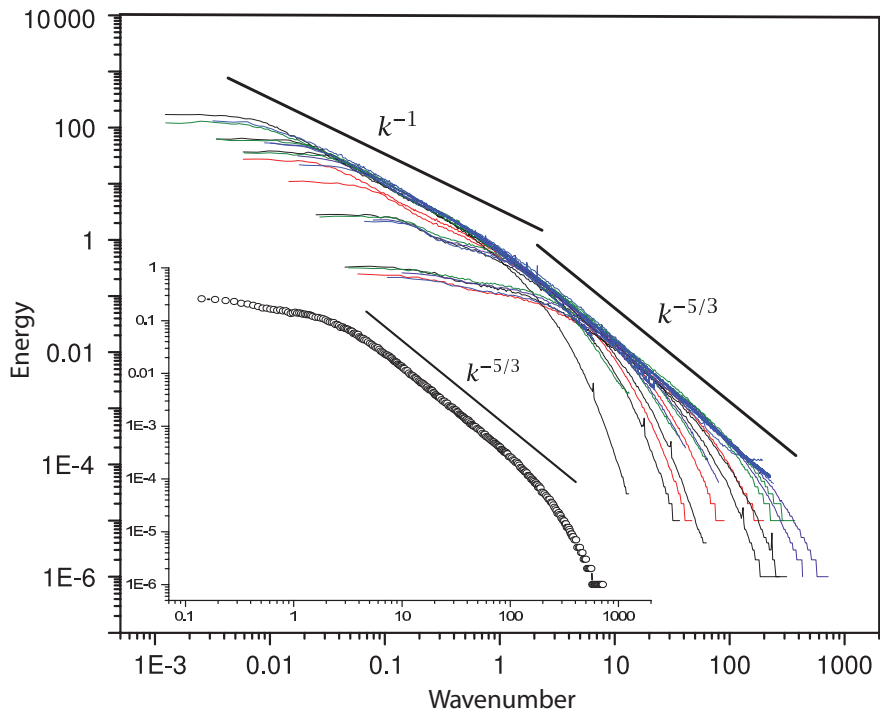


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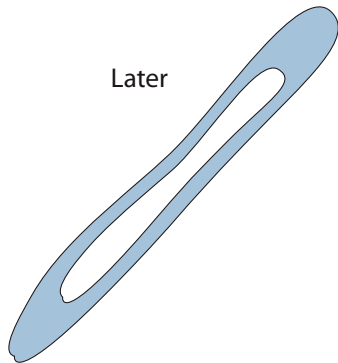
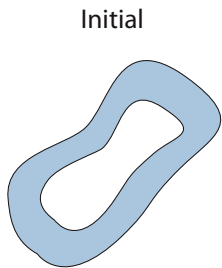


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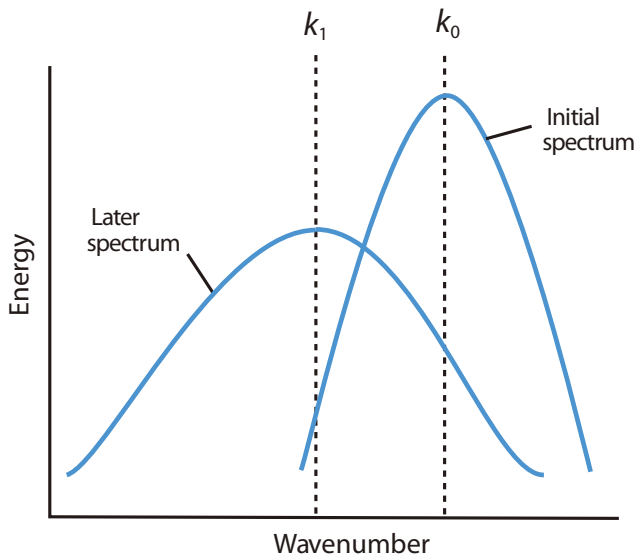


Fig. 11.6

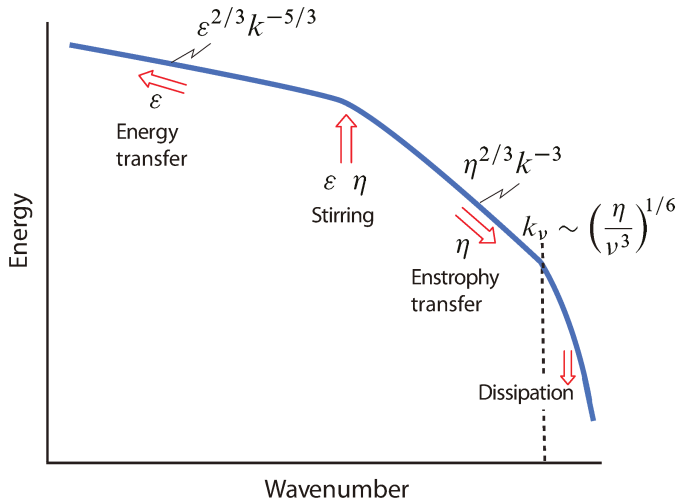


Fig. 11.7

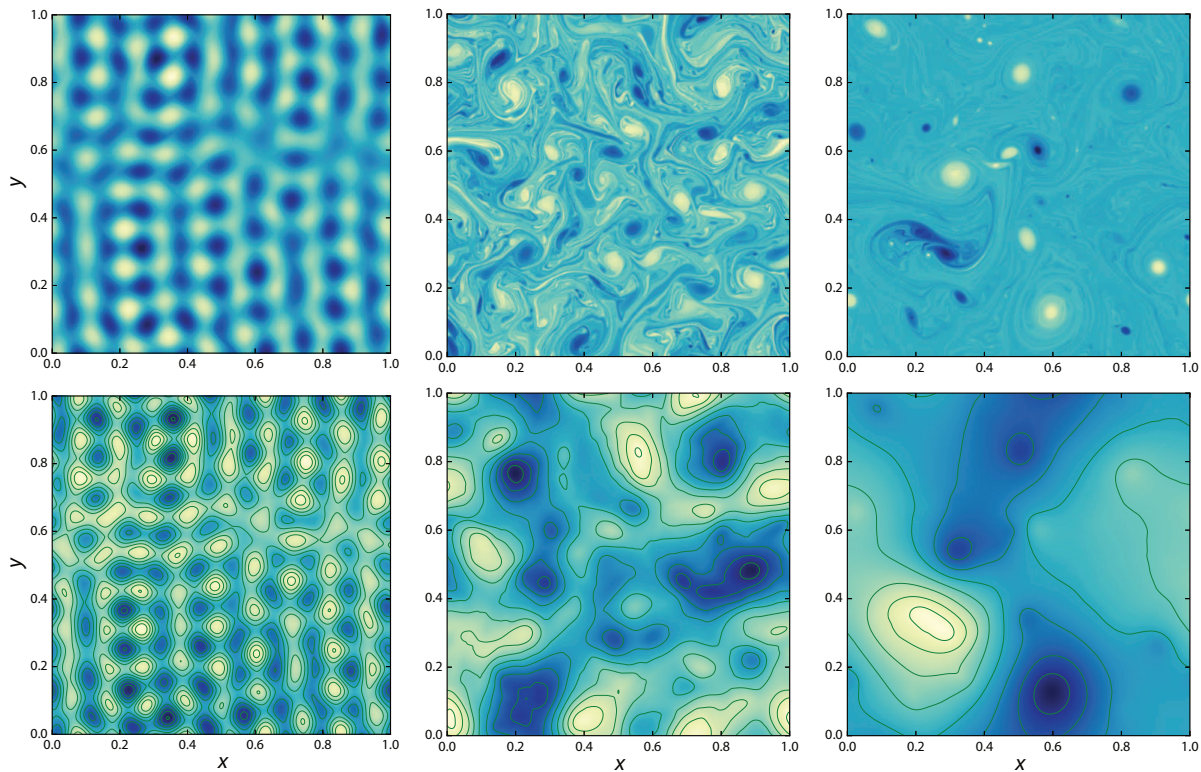


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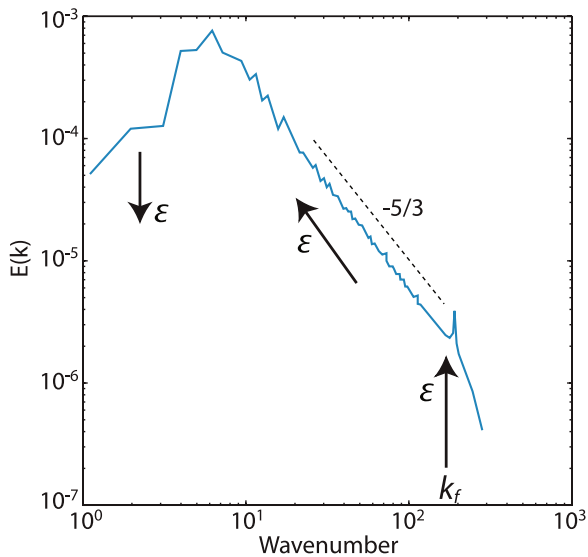


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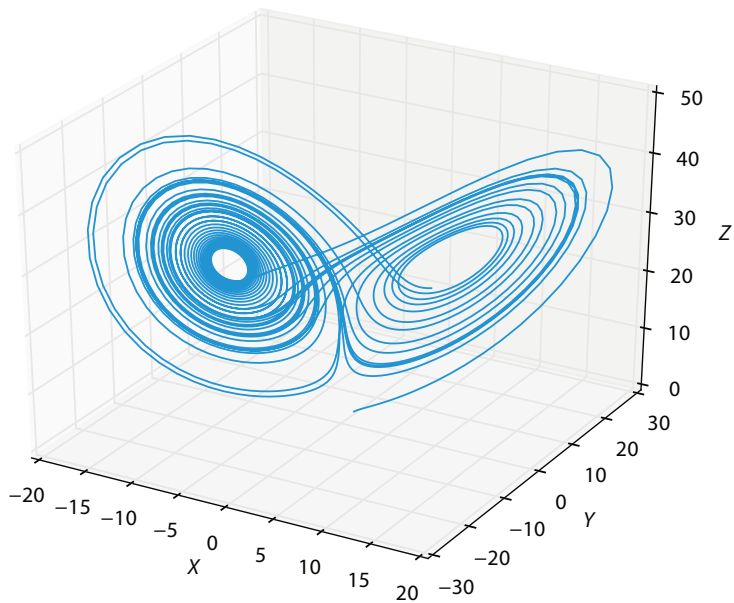


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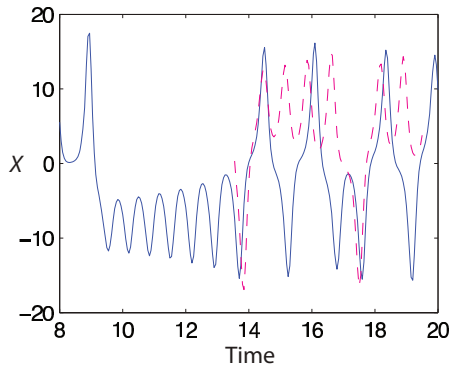
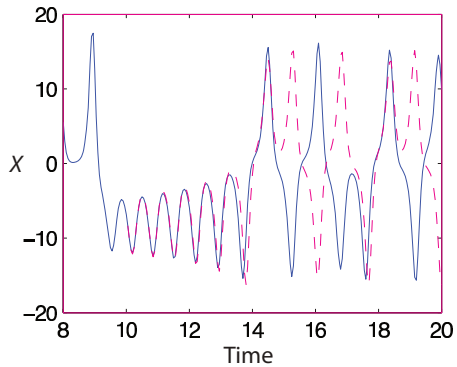


Fig. 11.11

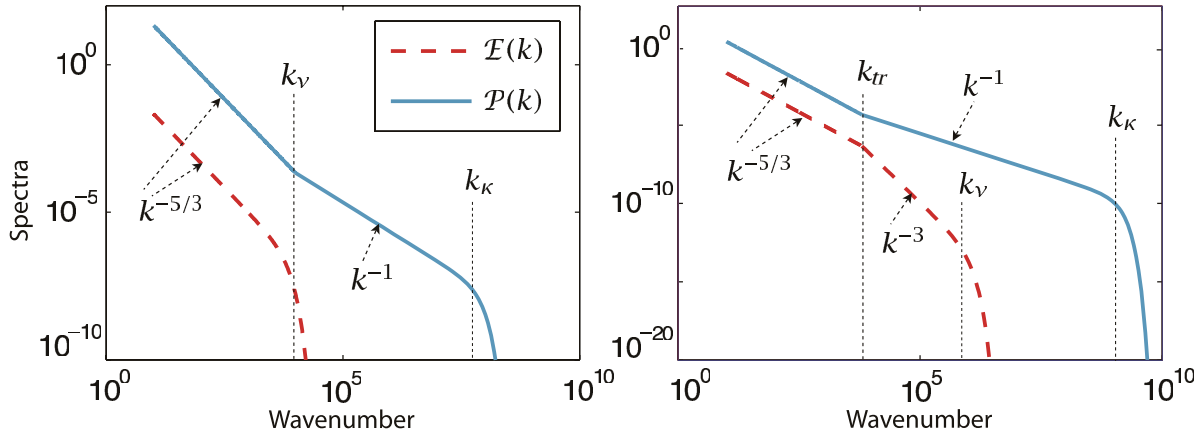


Fig. 11.12

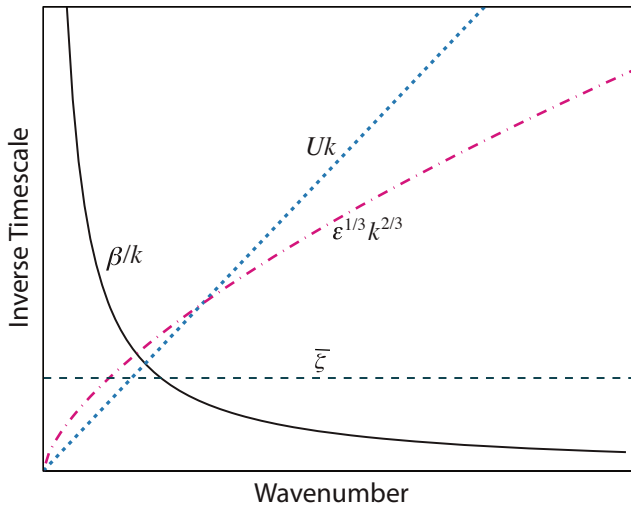


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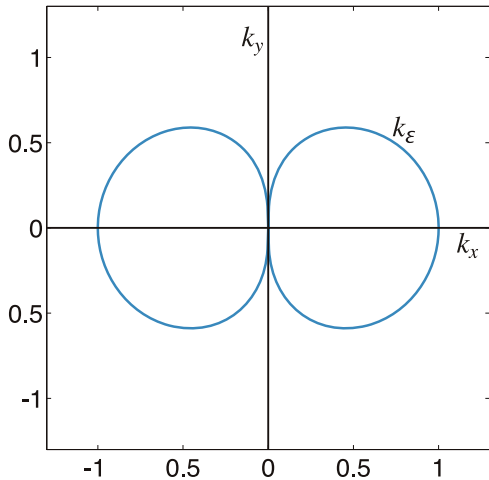


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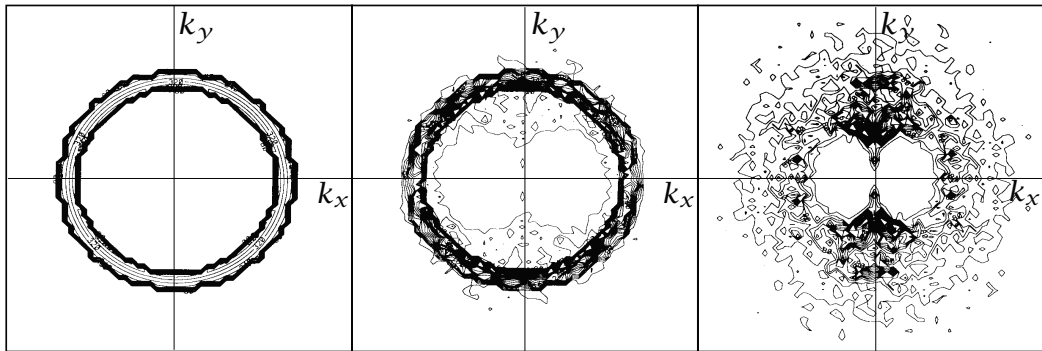


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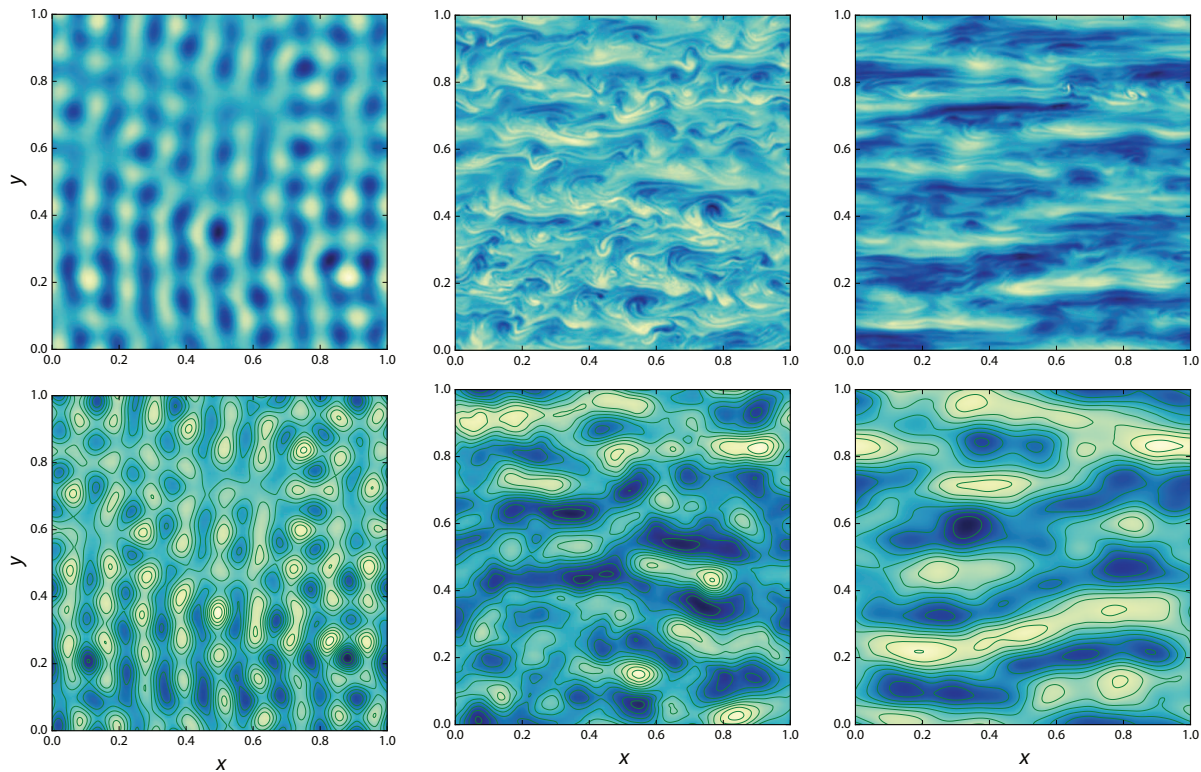


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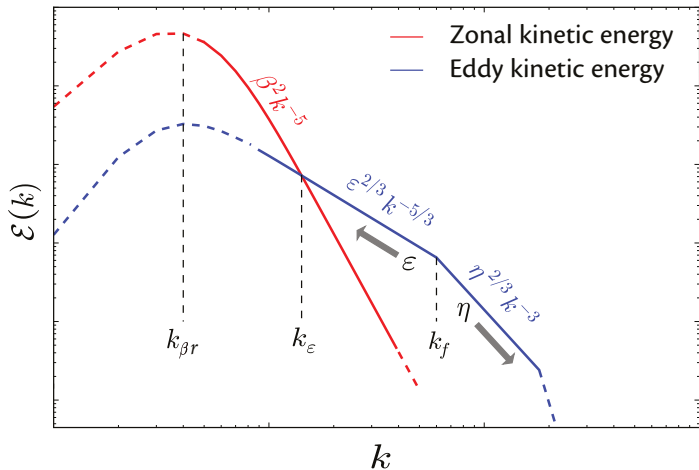


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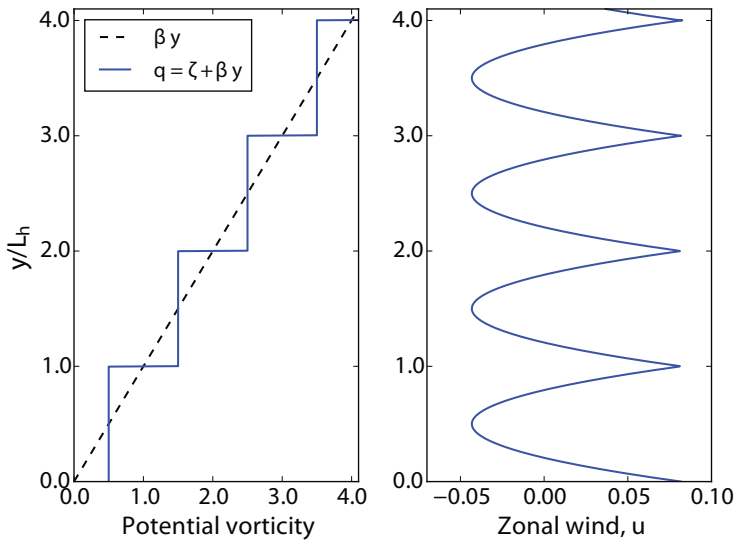


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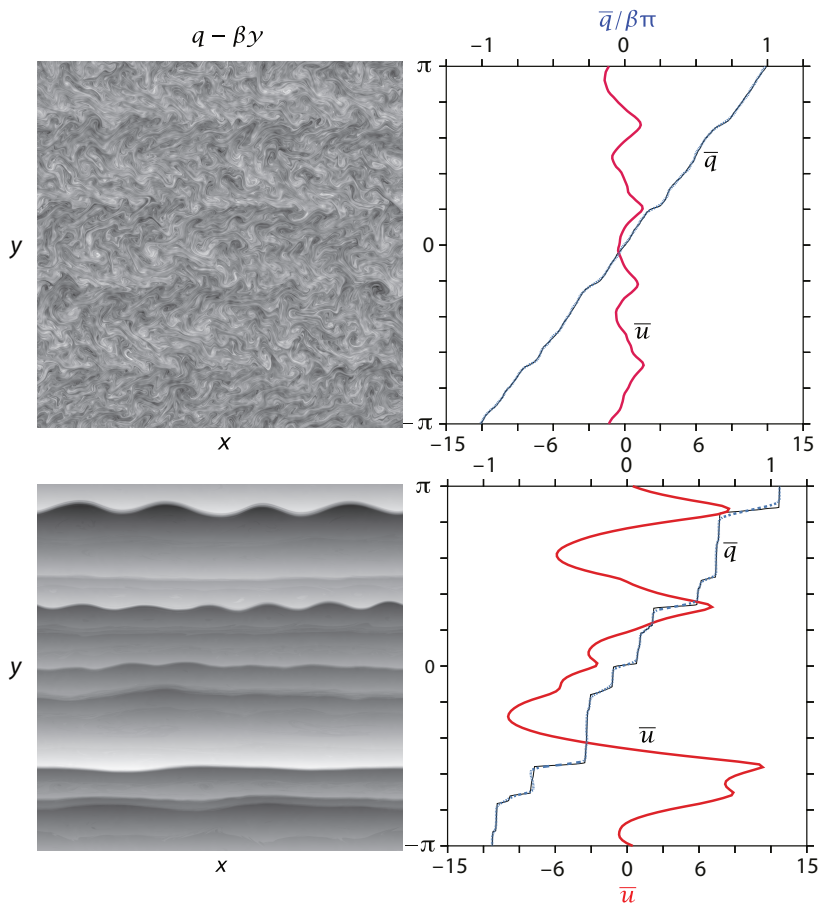


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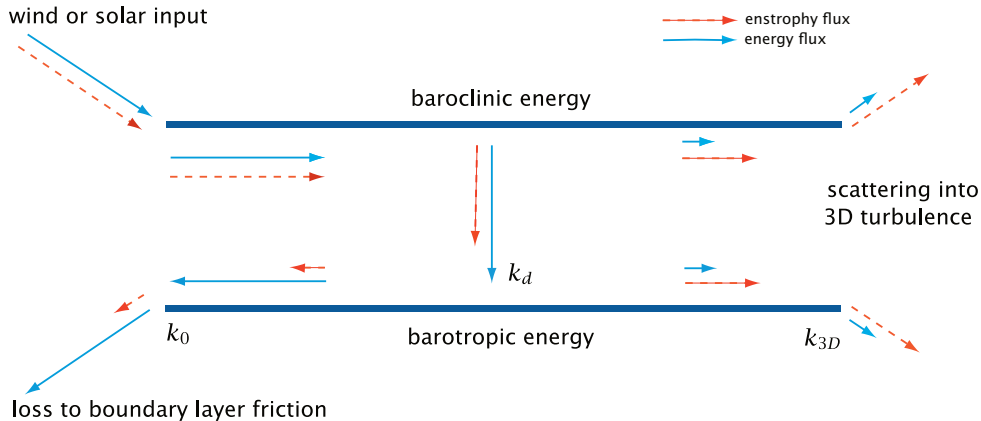


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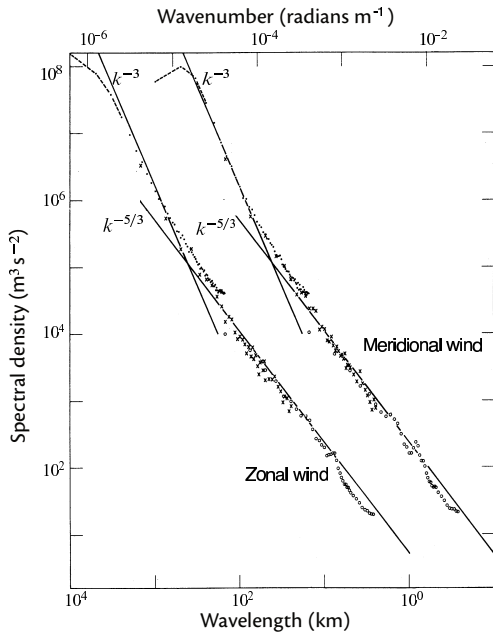


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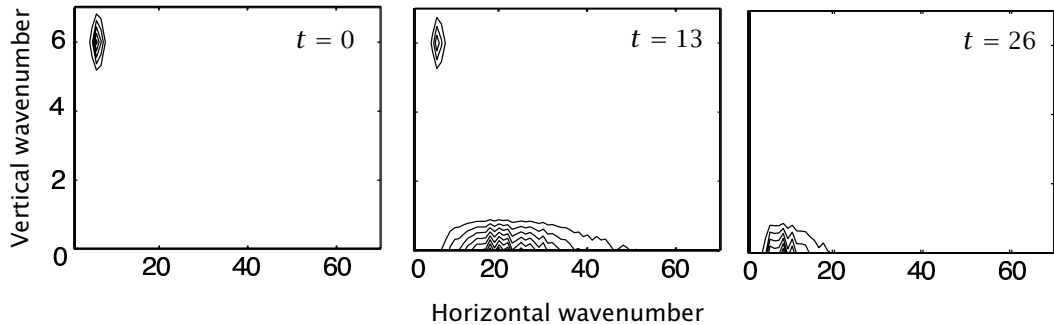


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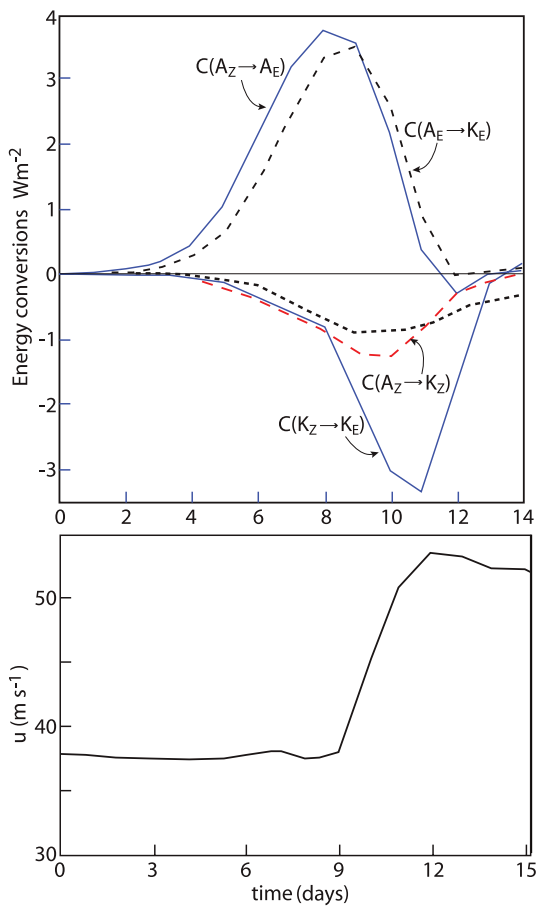


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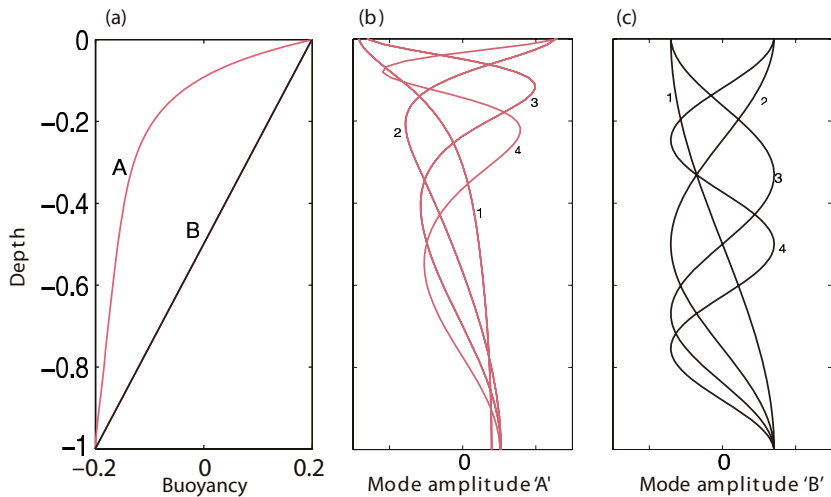


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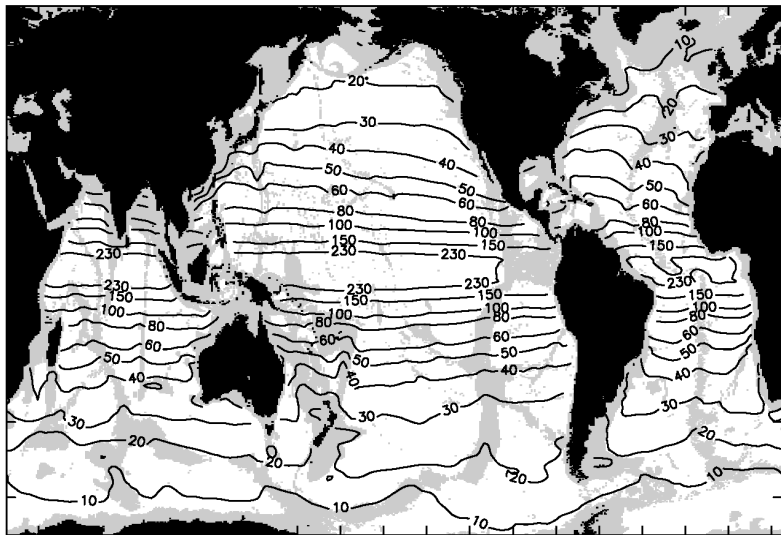


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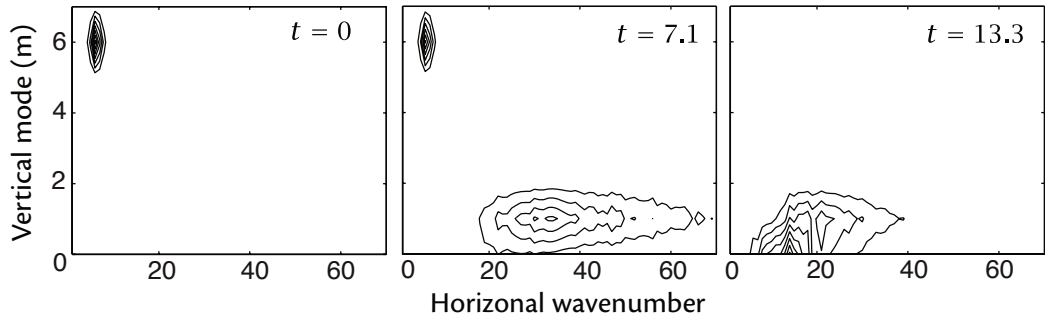


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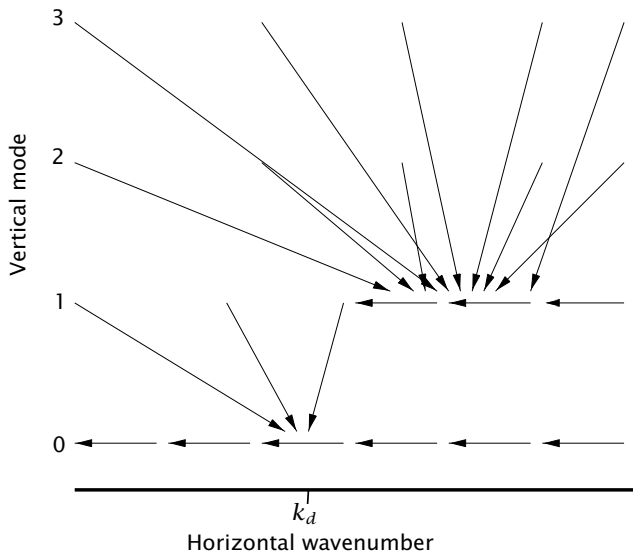


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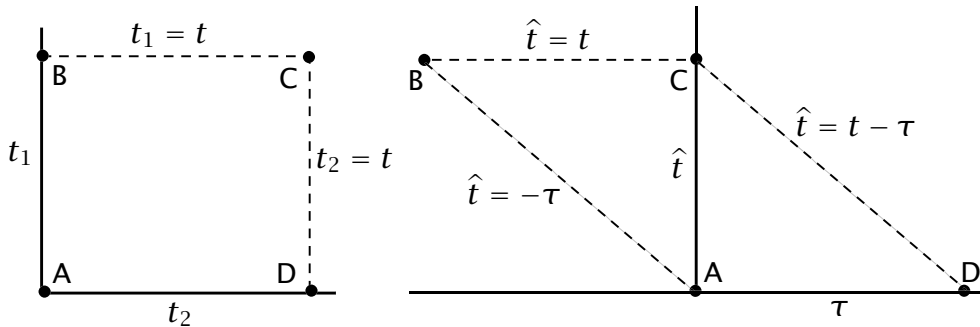


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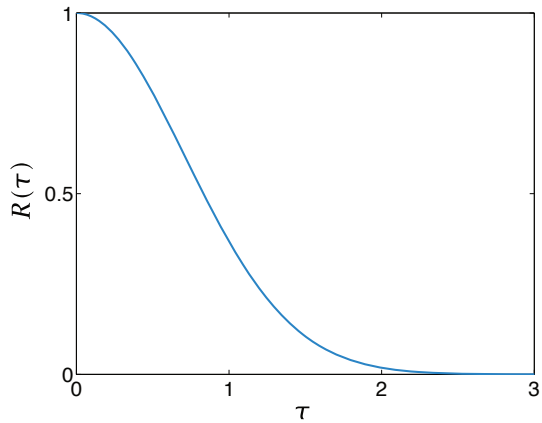


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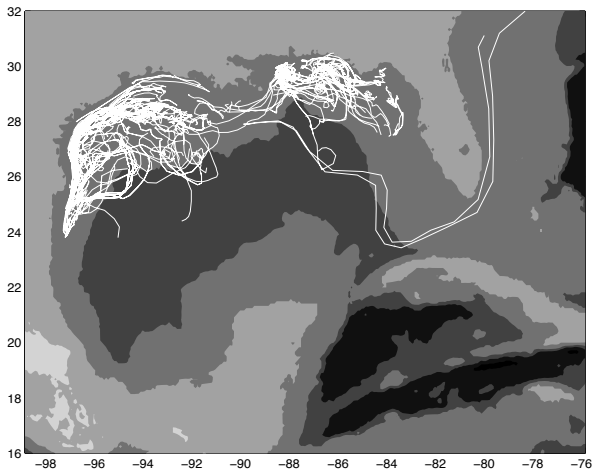


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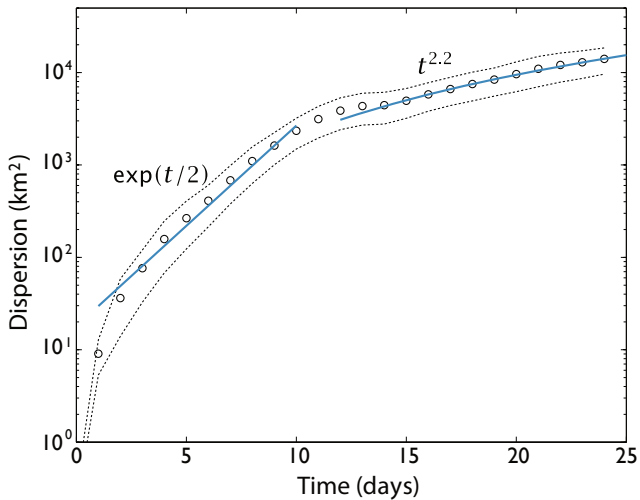


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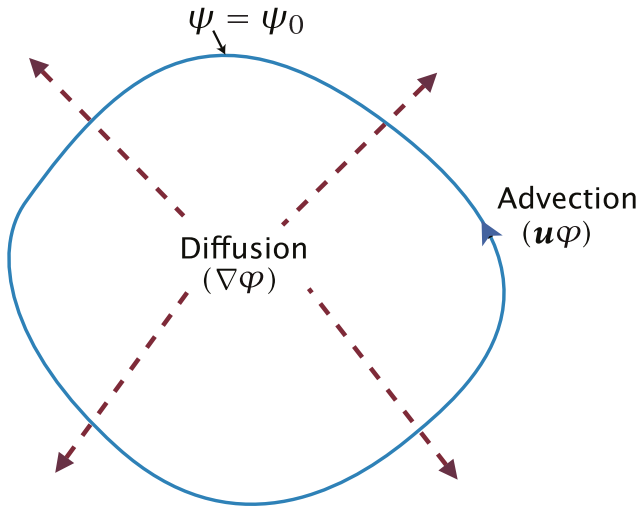


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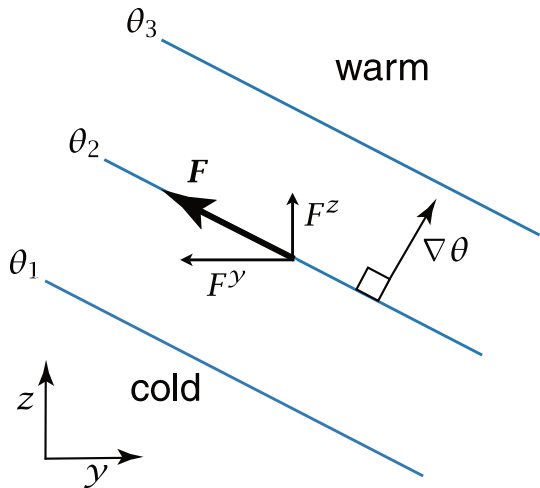


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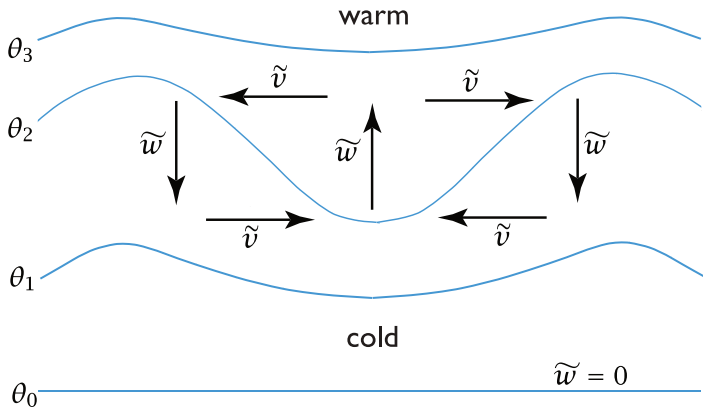


Fig. 13.7

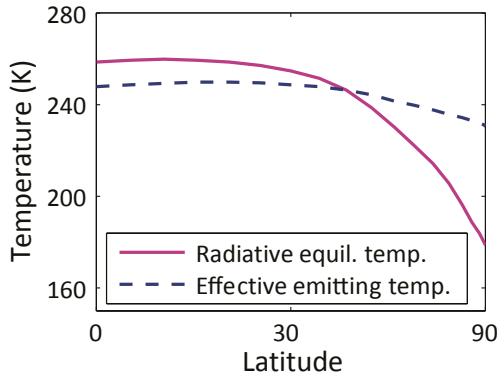
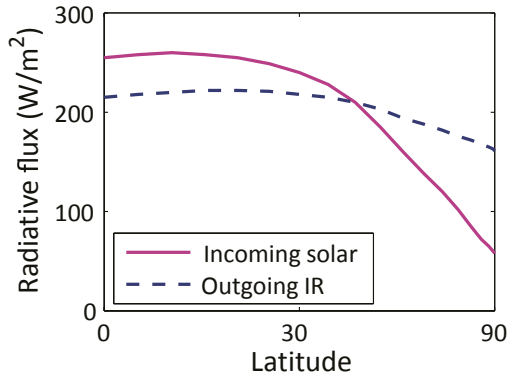


Fig. 14.1

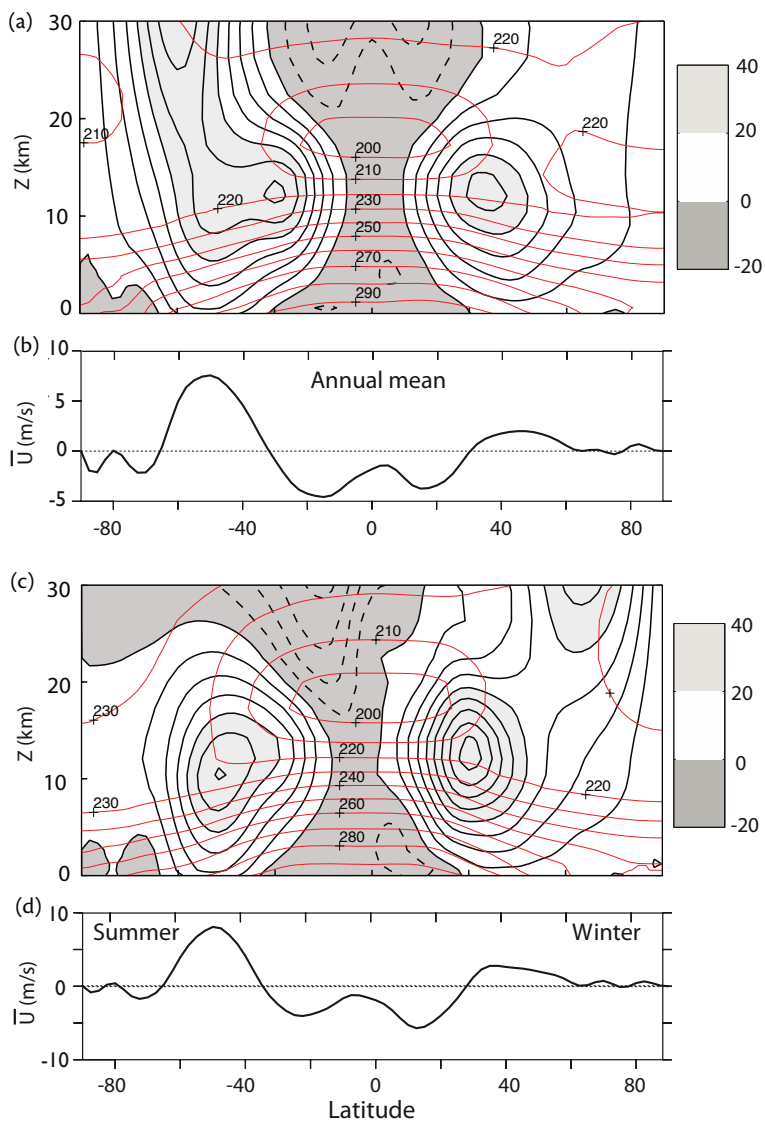


Fig. 14.2

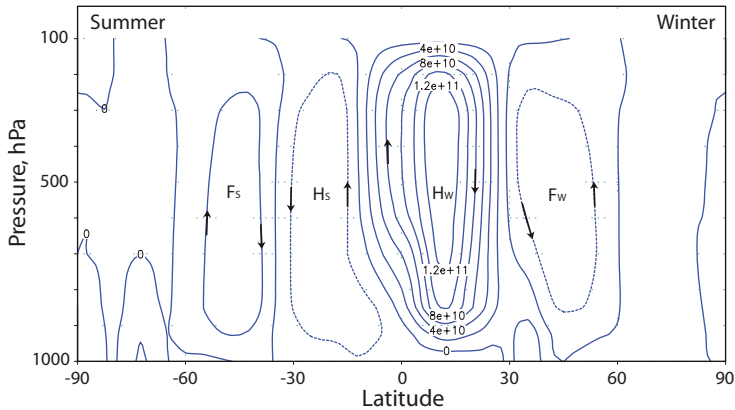


Fig. 14.3

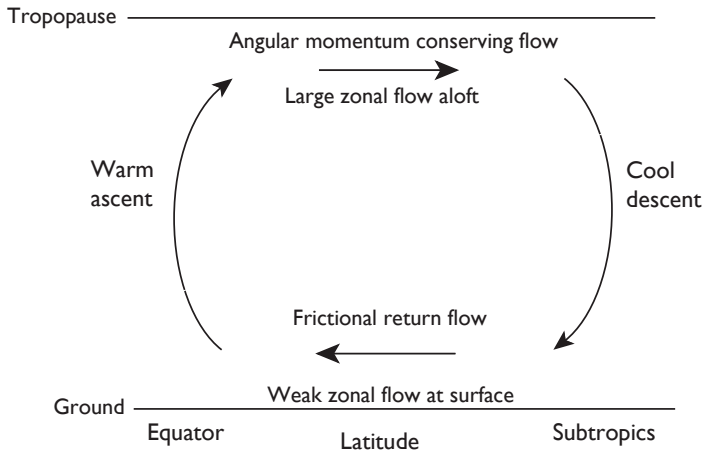


Fig. 14.4

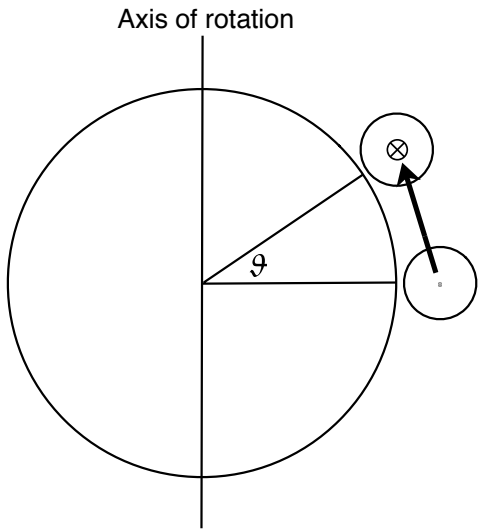


Fig. 14.5

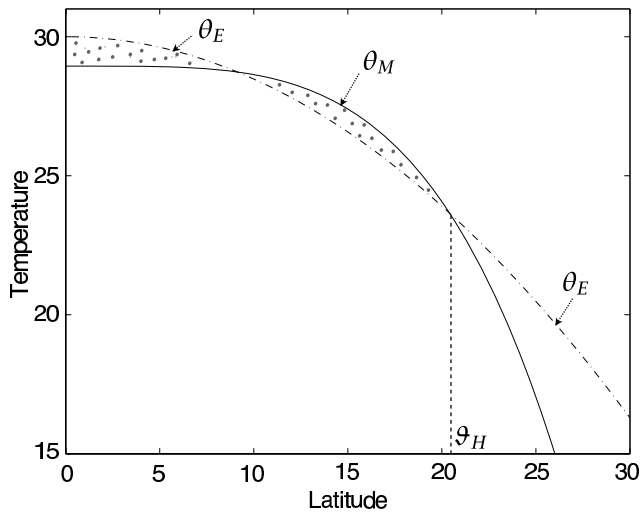


Fig. 14.6

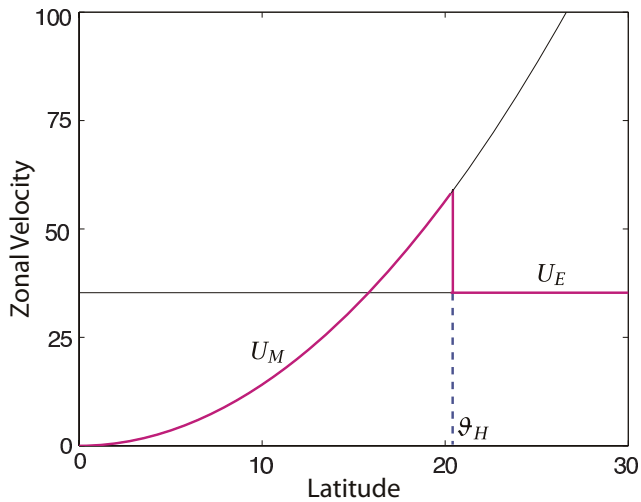


Fig. 14.7

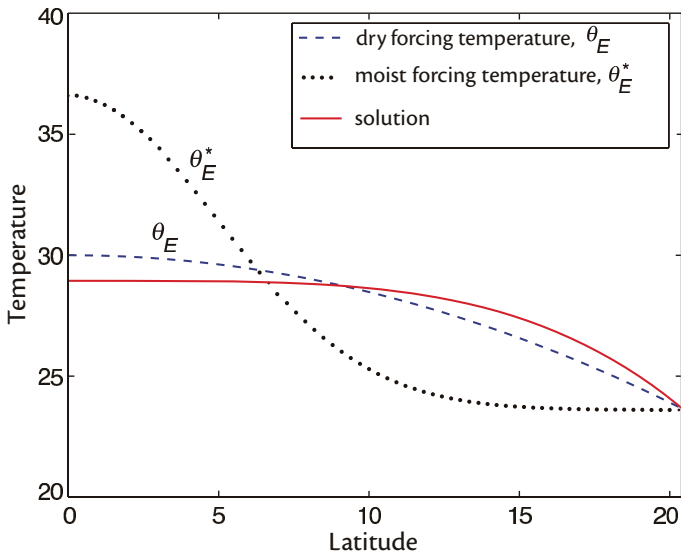


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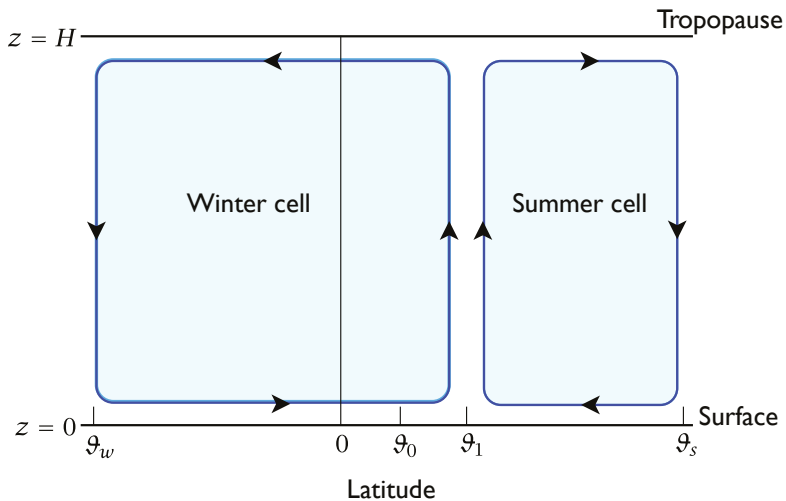


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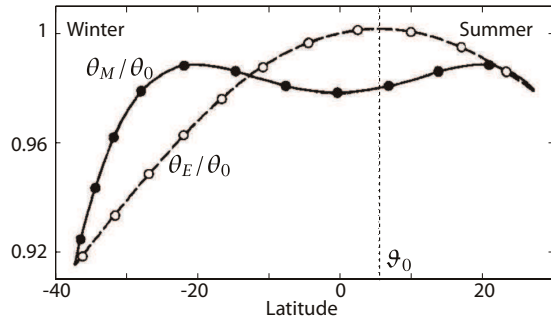
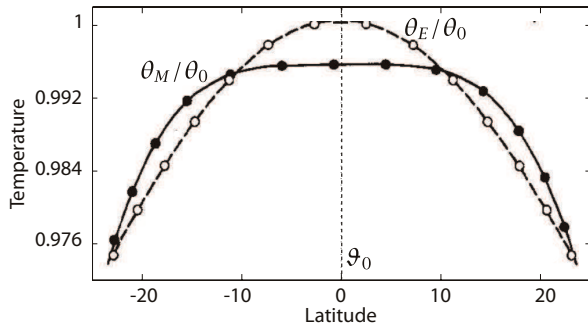


Fig. 14.10

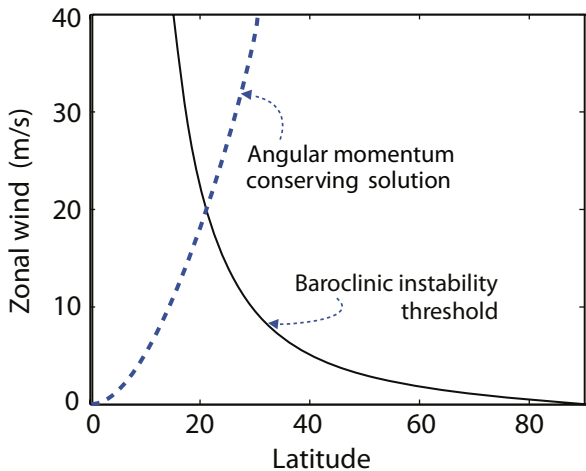


Fig. 14.11

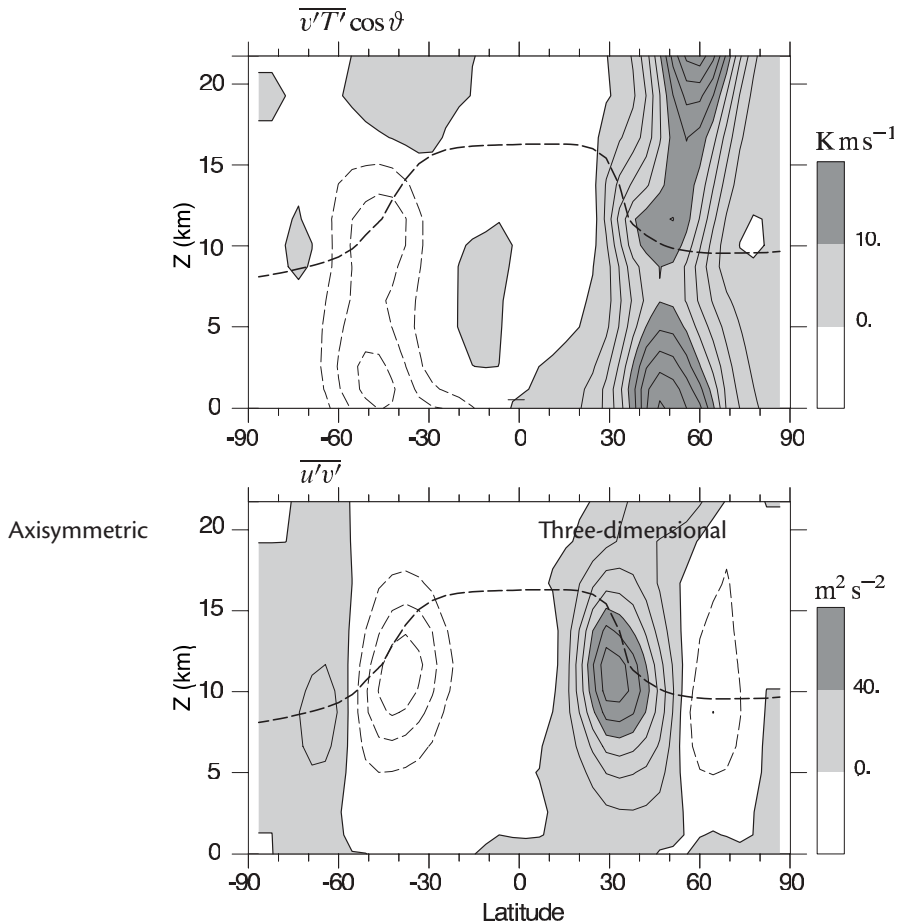


Fig. 14.12

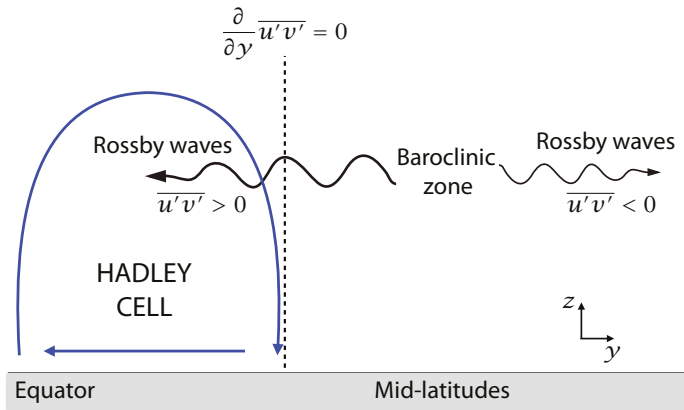


Fig. 14.13

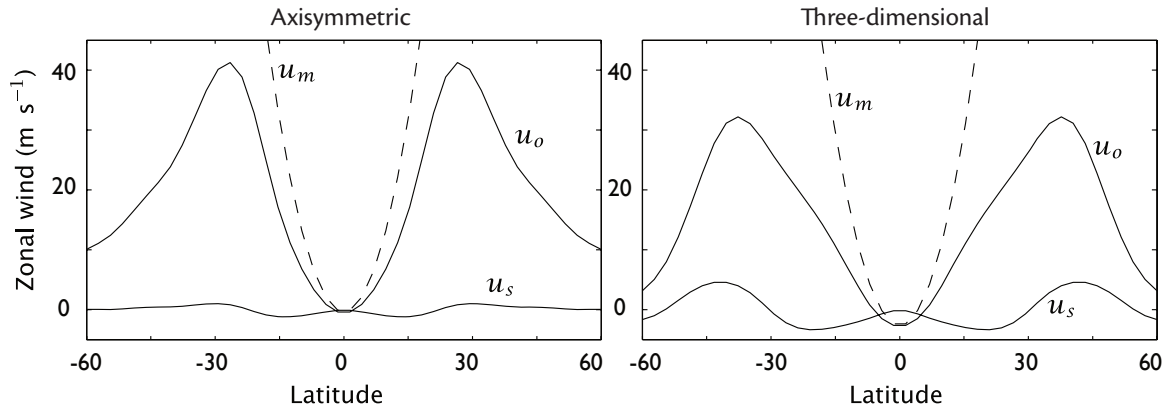


Fig. 14.14

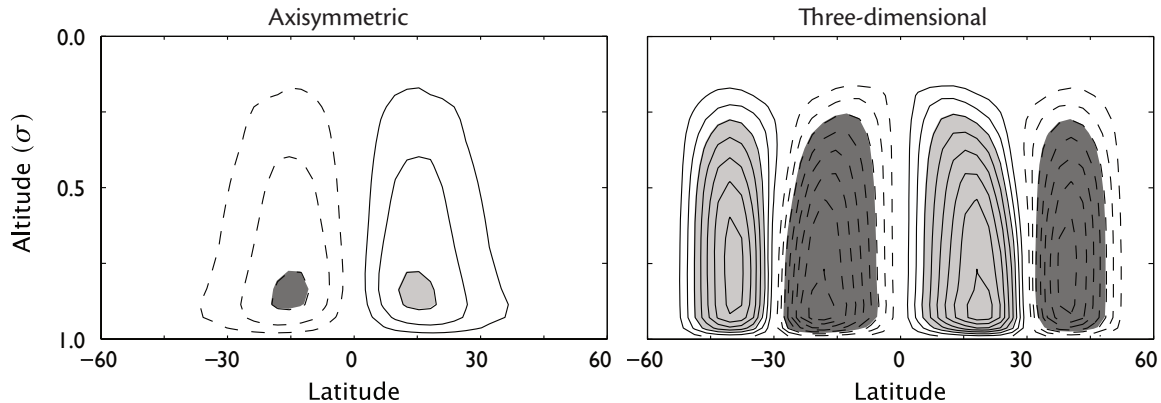


Fig. 14.15

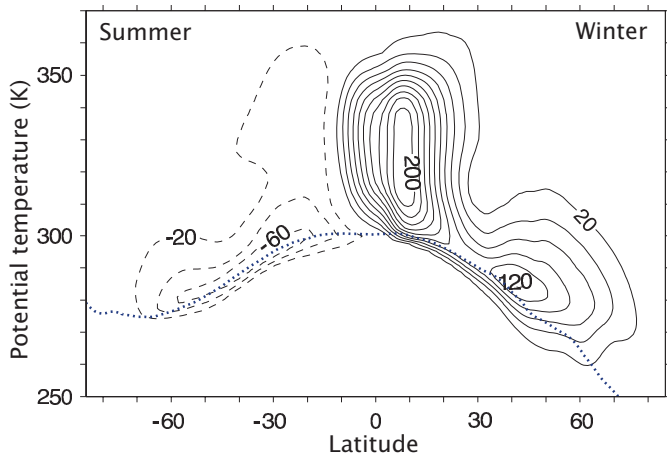


Fig. 14.16

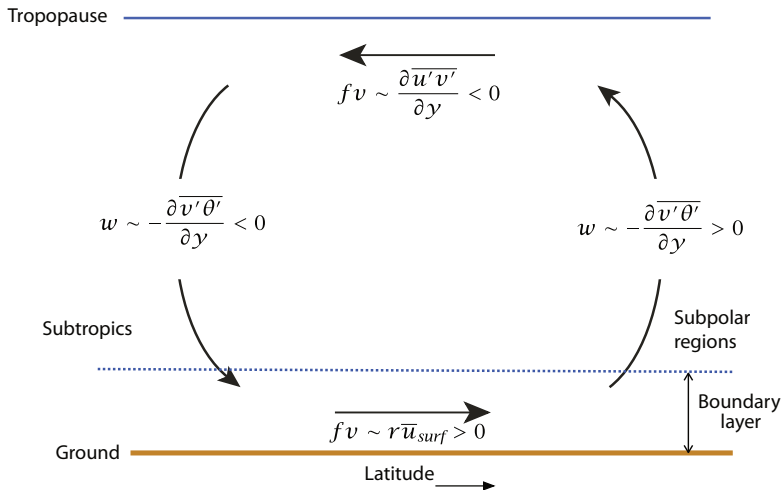


Fig. 14.17

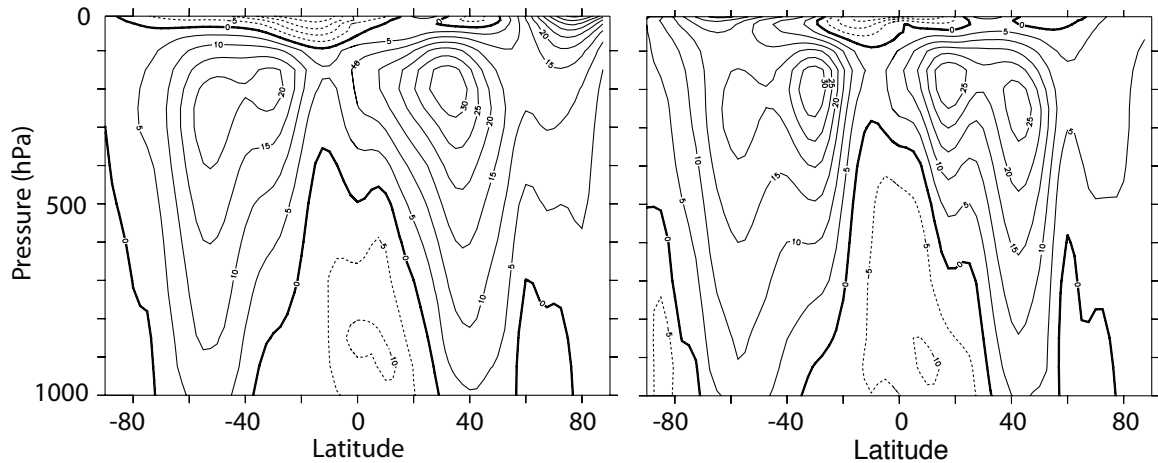


Fig. 15.1

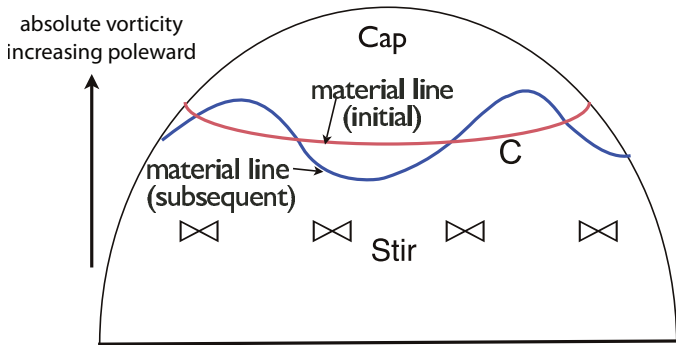


Fig. 15.2

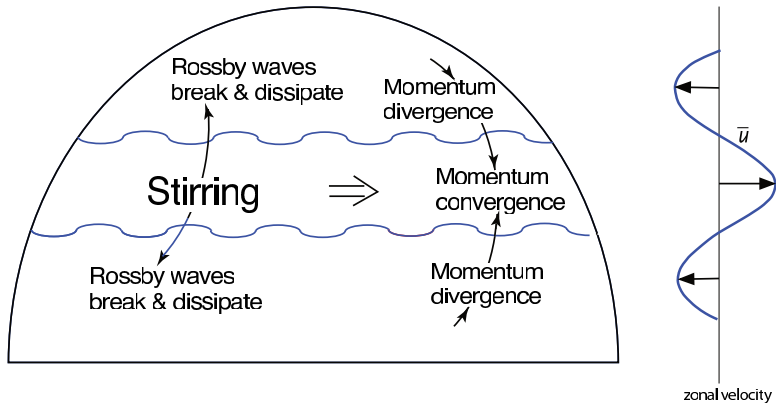


Fig. 15.3

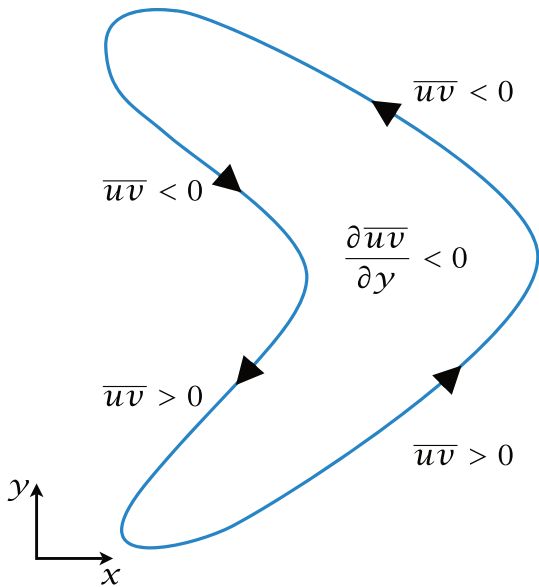


Fig. 15.4

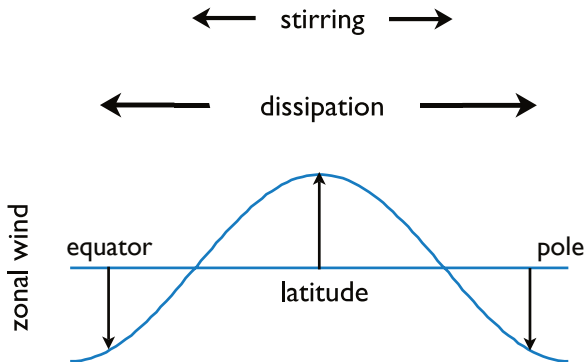


Fig. 15.5

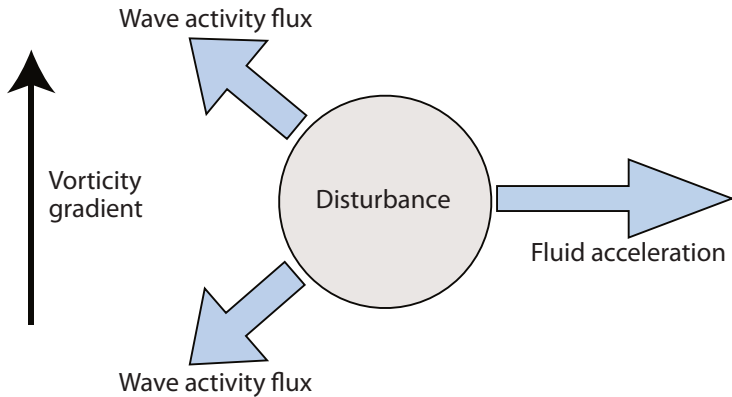


Fig. 15.6

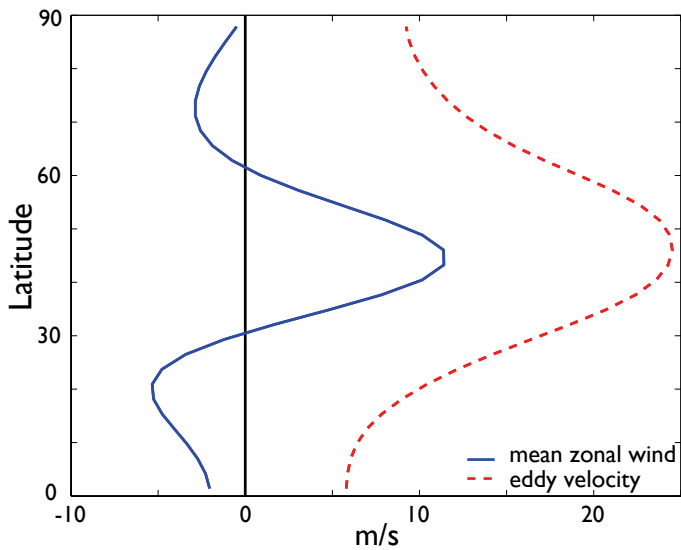


Fig. 15.7

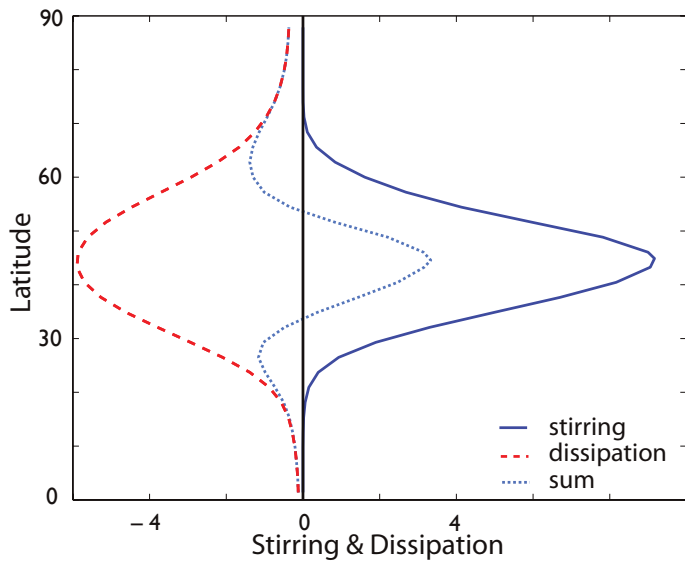


Fig. 15.8

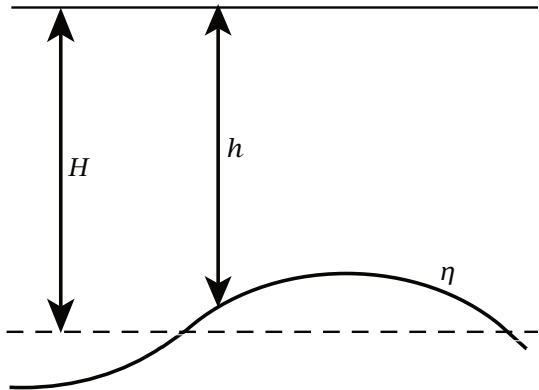


Fig. 15.9

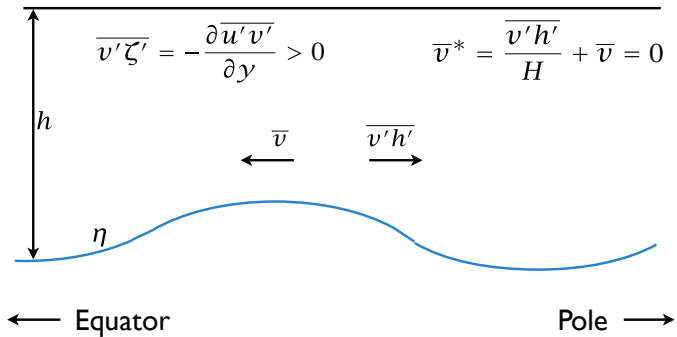


Fig. 15.10

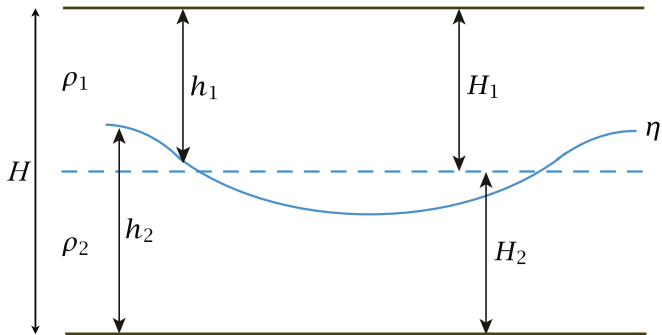


Fig. 15.11

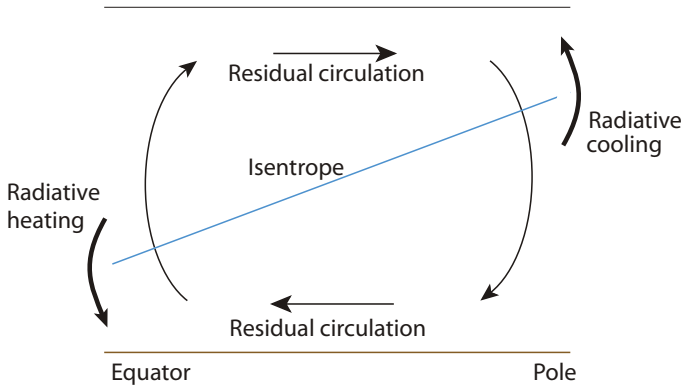


Fig. 15.12

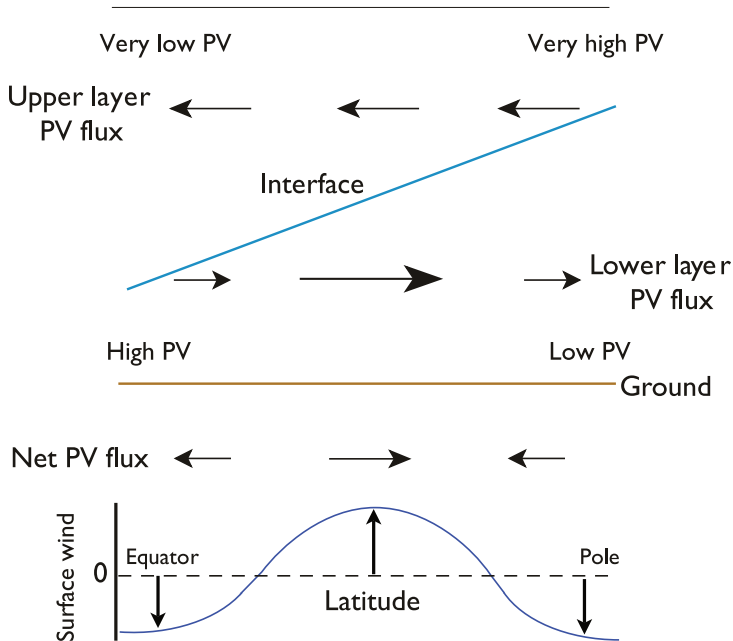


Fig. 15.13

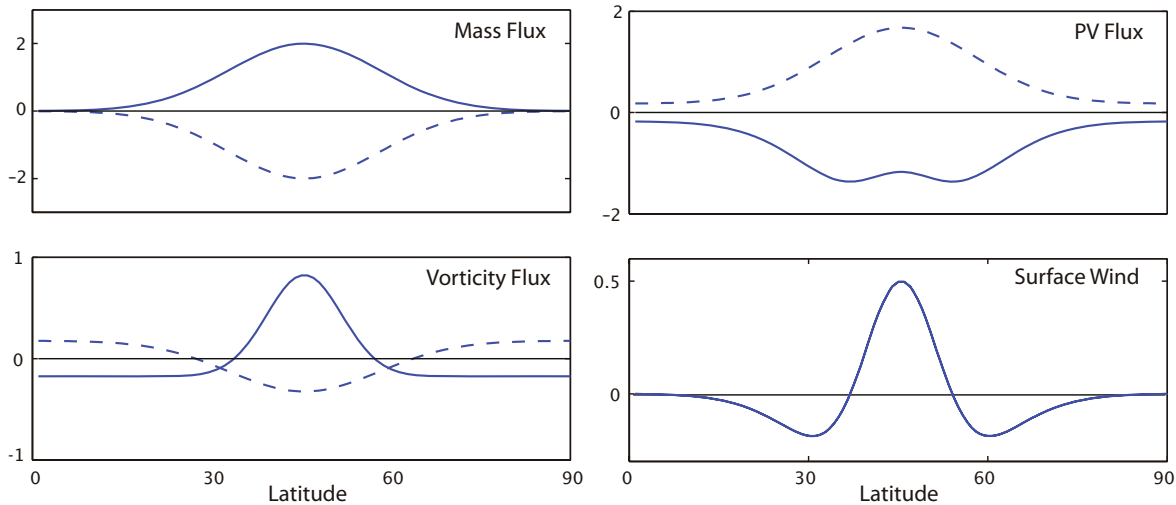


Fig. 15.14

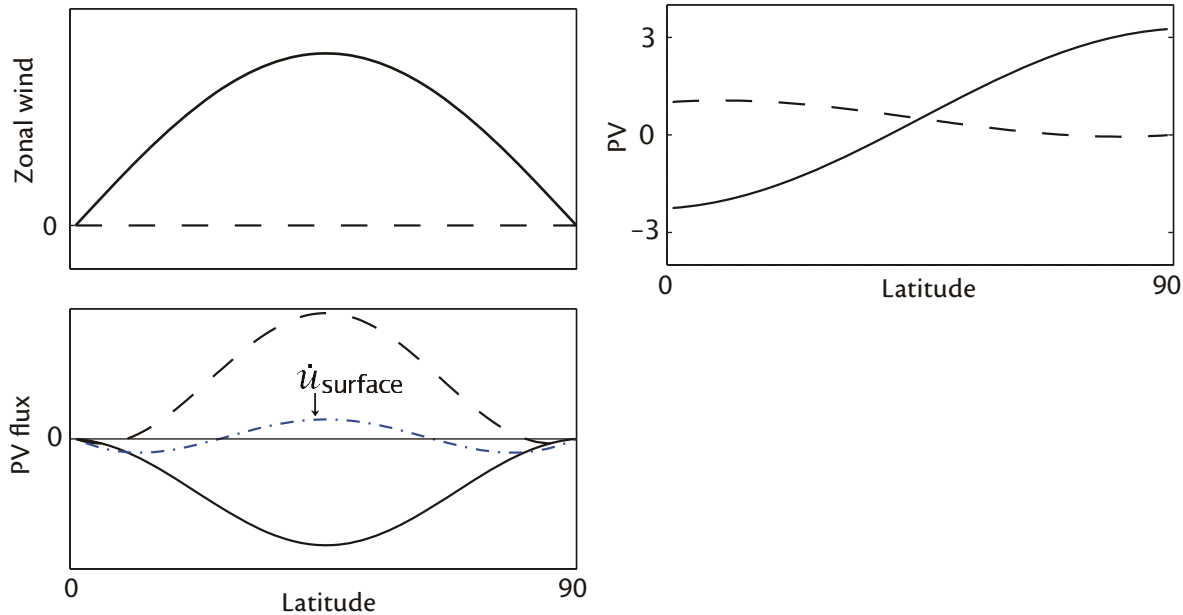


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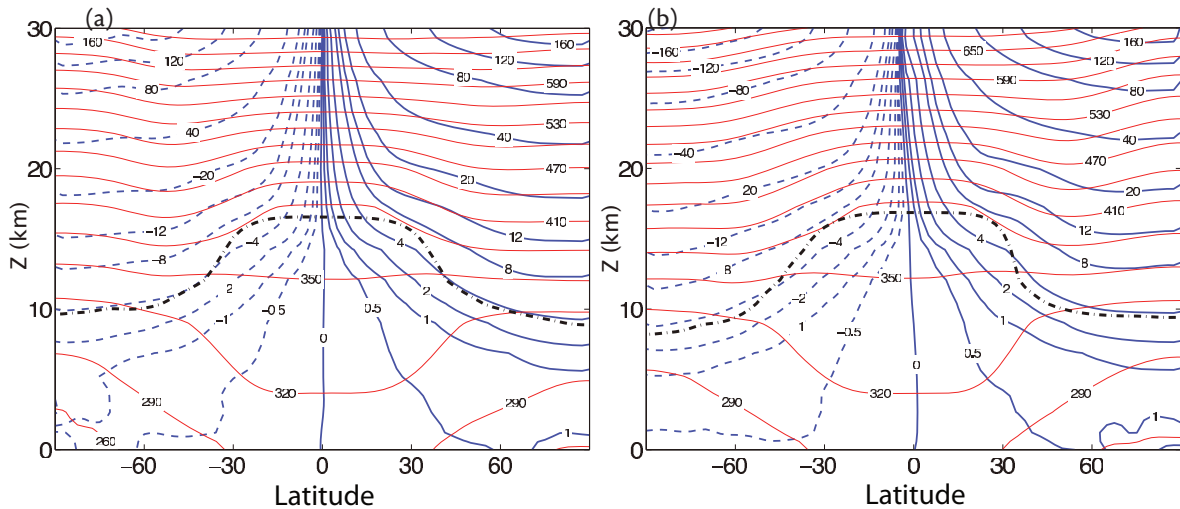
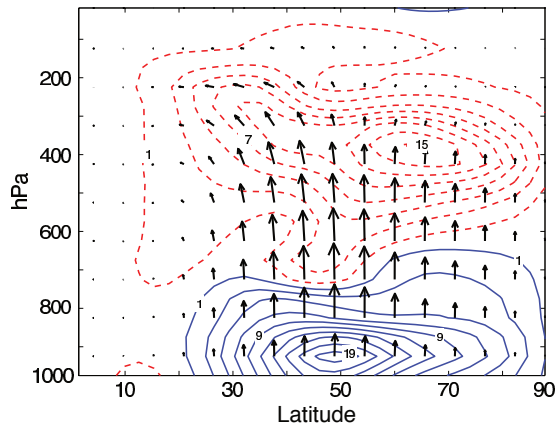
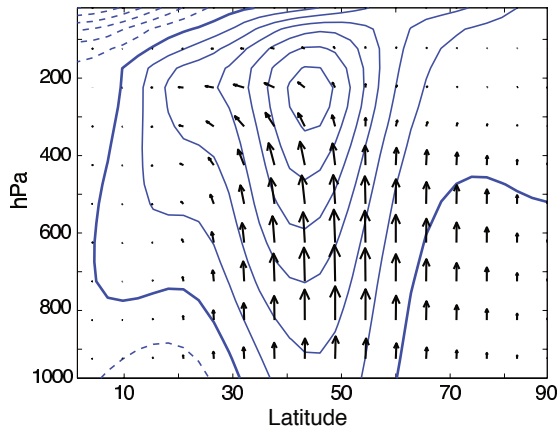


Fig. 15.16

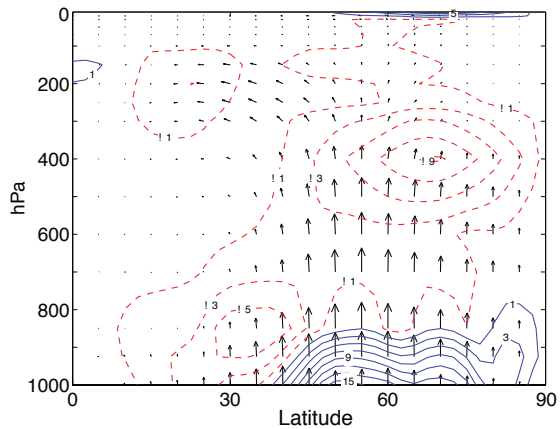
(a)



(b)

**Fig. 15.17**

(a)



(b)

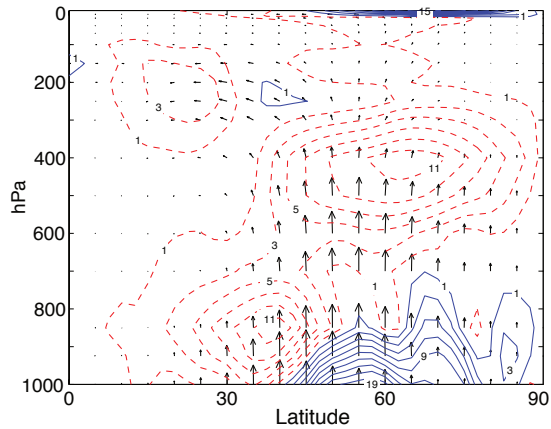


Fig. 15.18

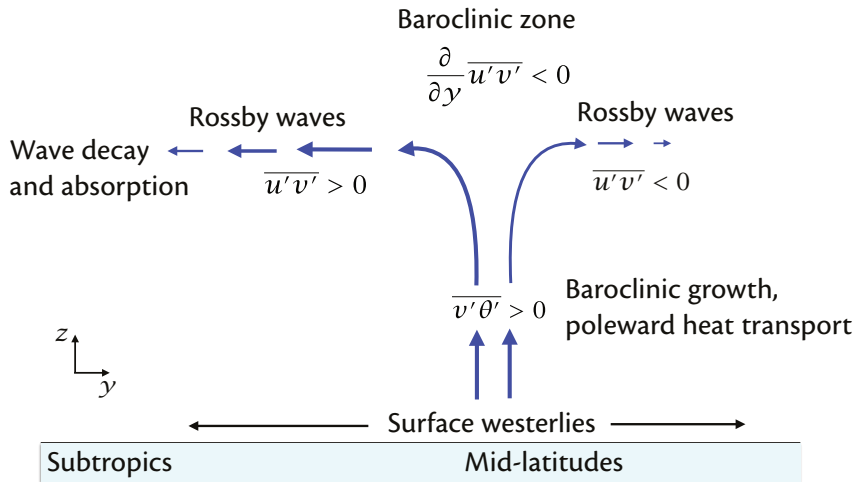


Fig. 15.19

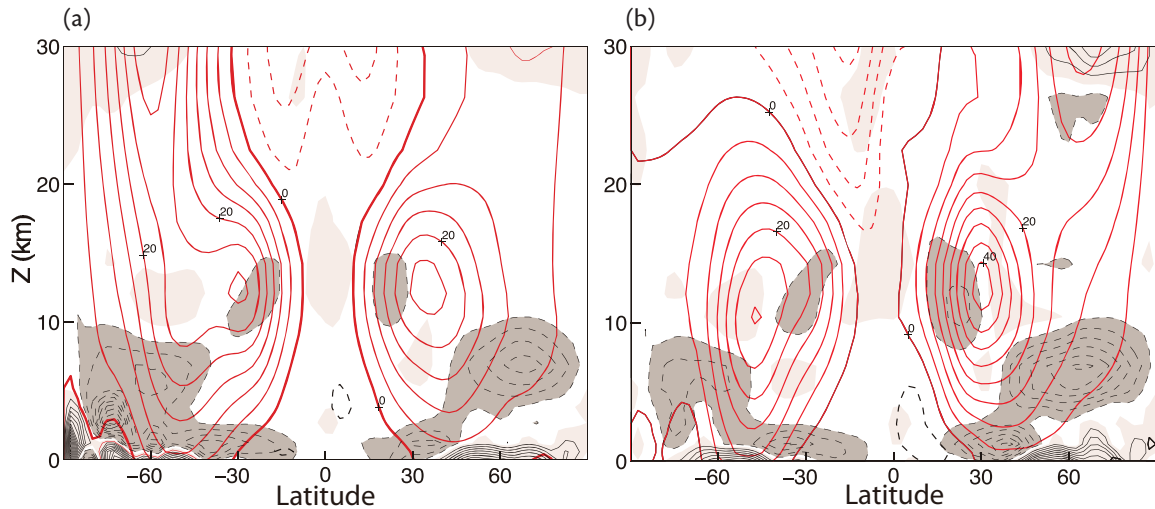


Fig. 15.20

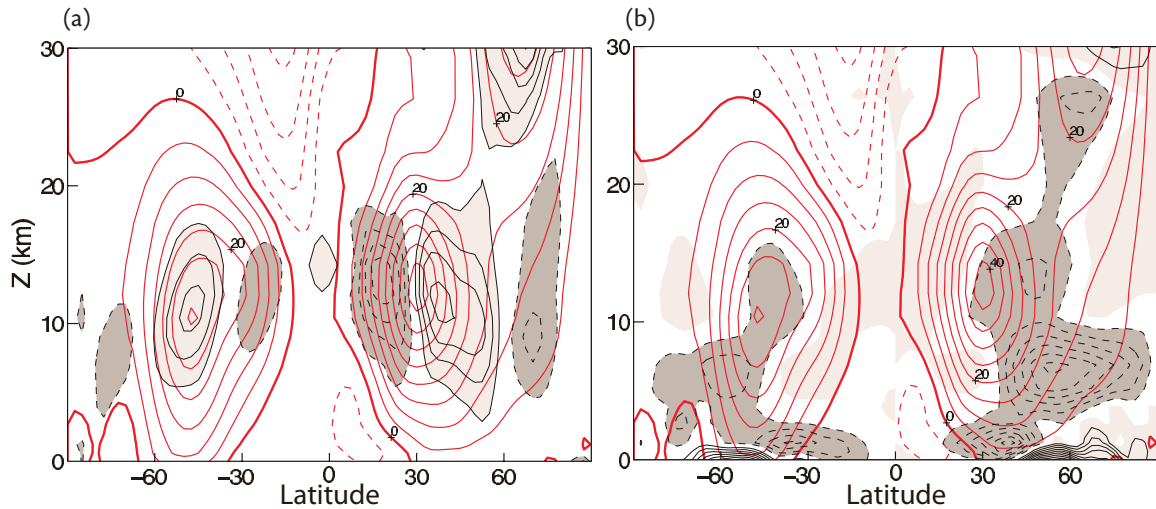


Fig. 15.21

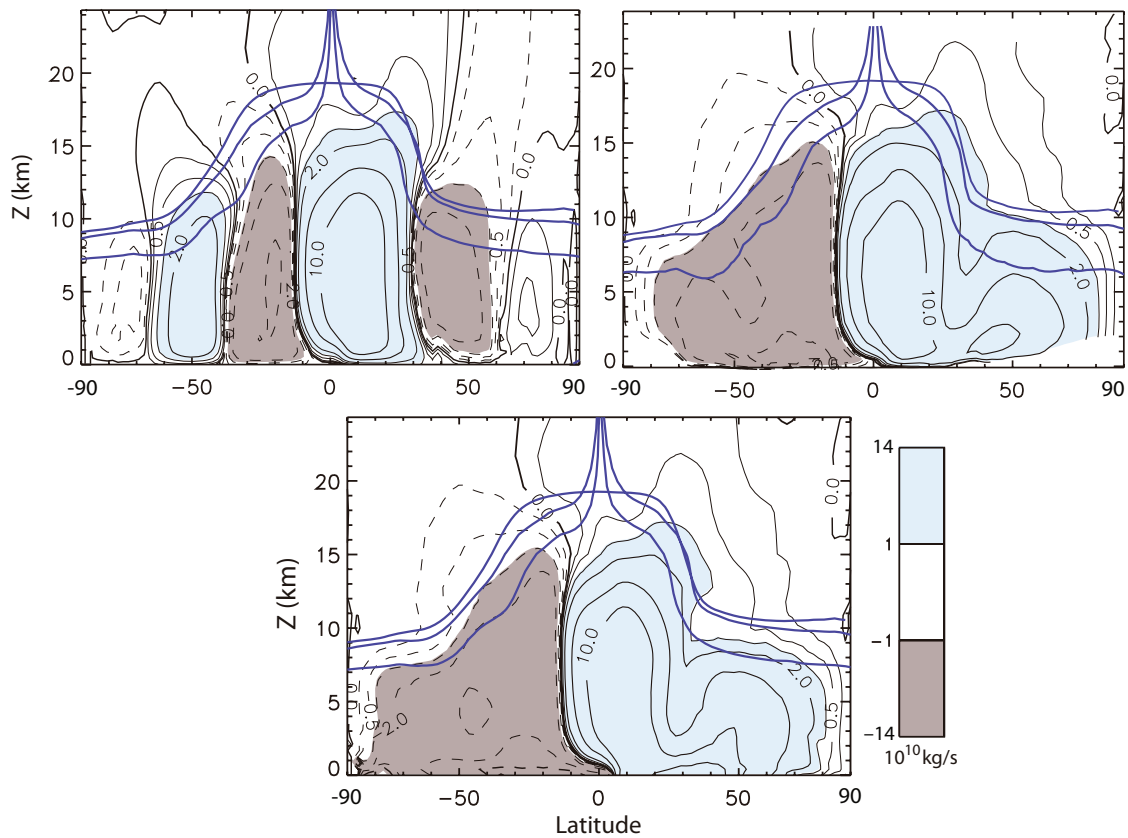


Fig. 15.22

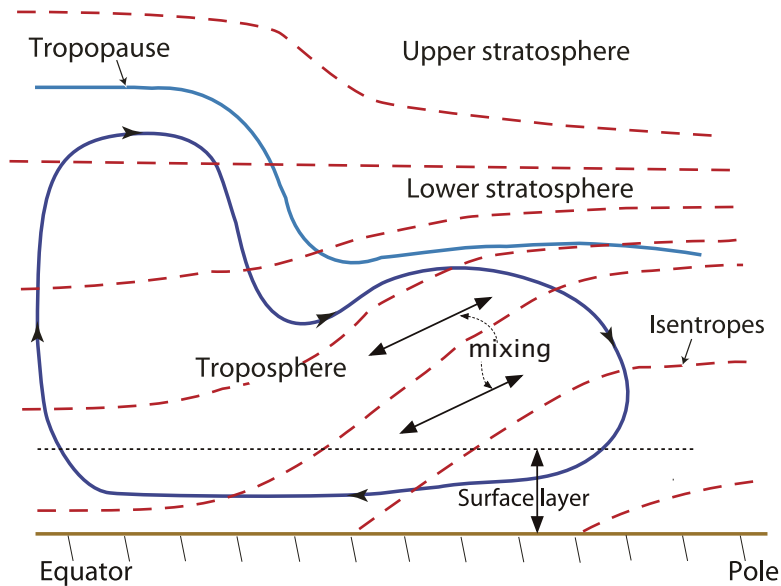


Fig. 15.23

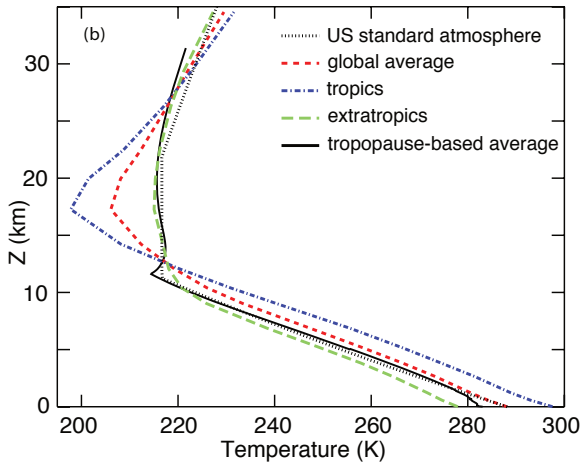
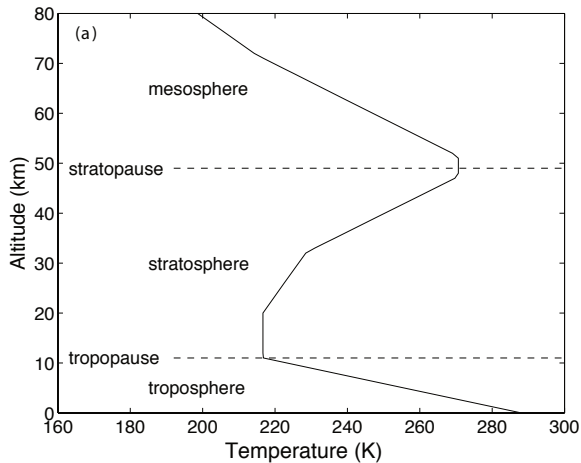


Fig. 15.24

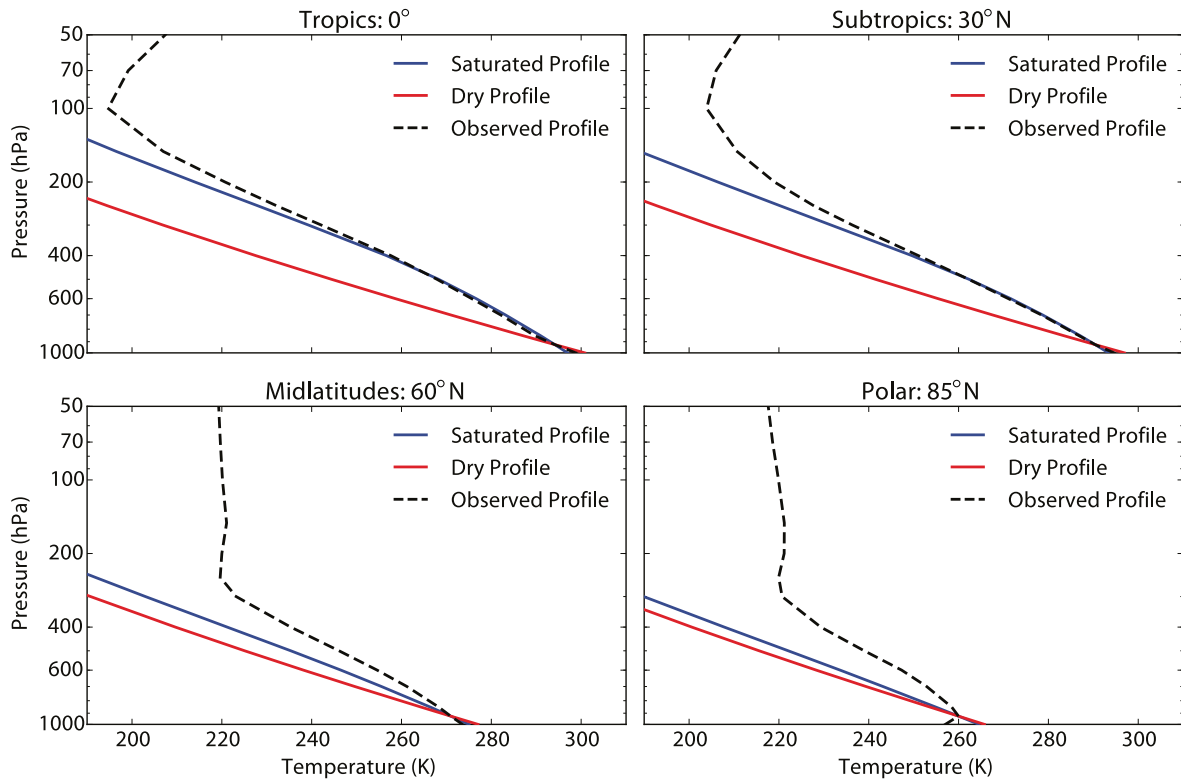


Fig. 15.25

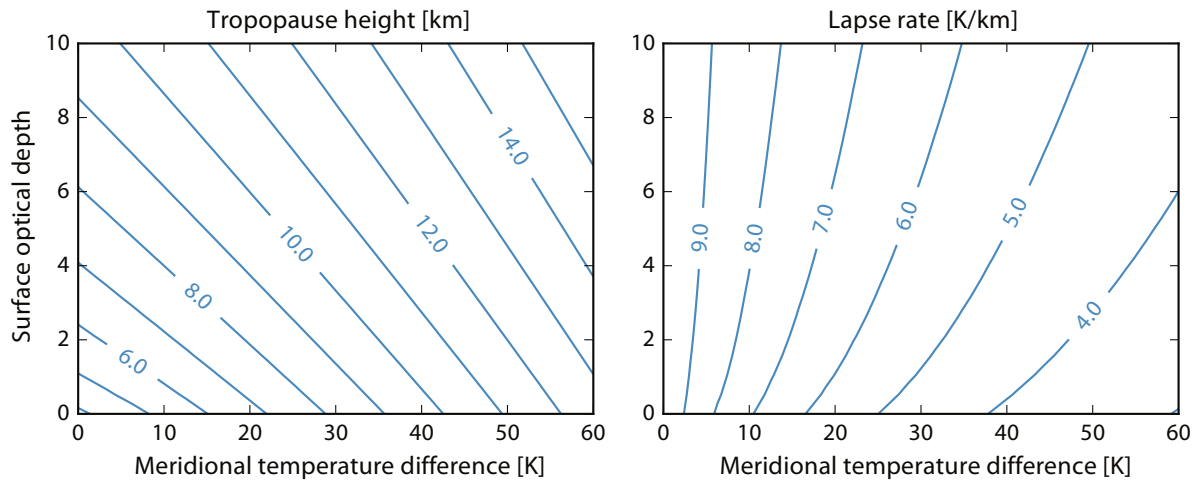


Fig. 15.26

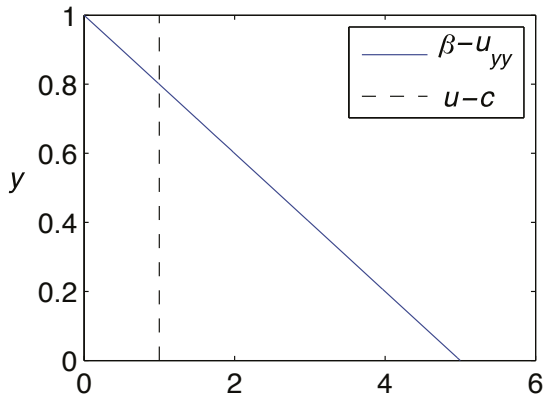


Fig. 16.1

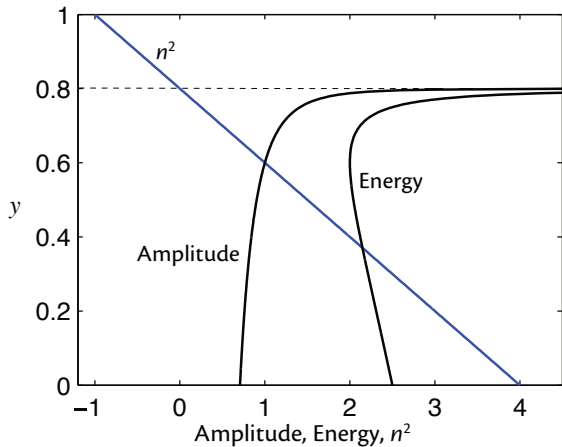
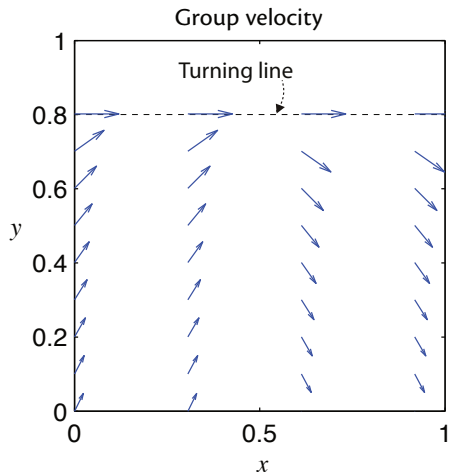


Fig. 16.2

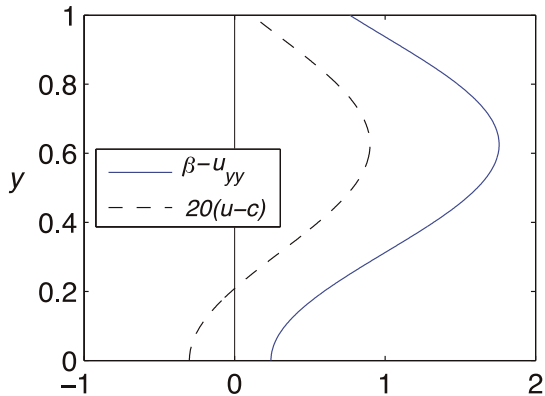


Fig. 16.3

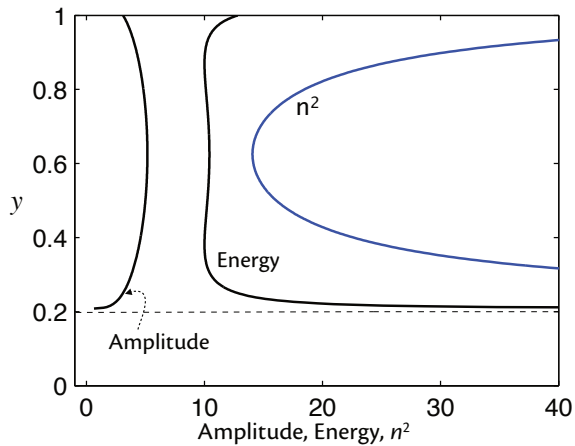
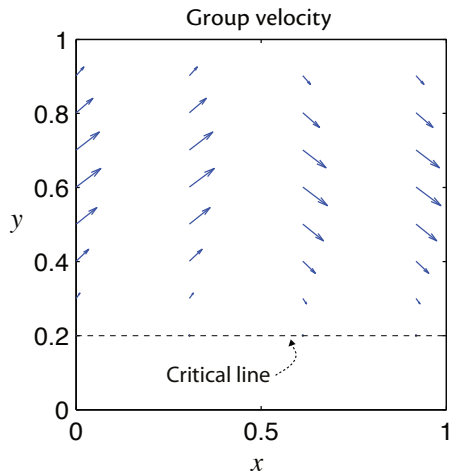


Fig. 16.4

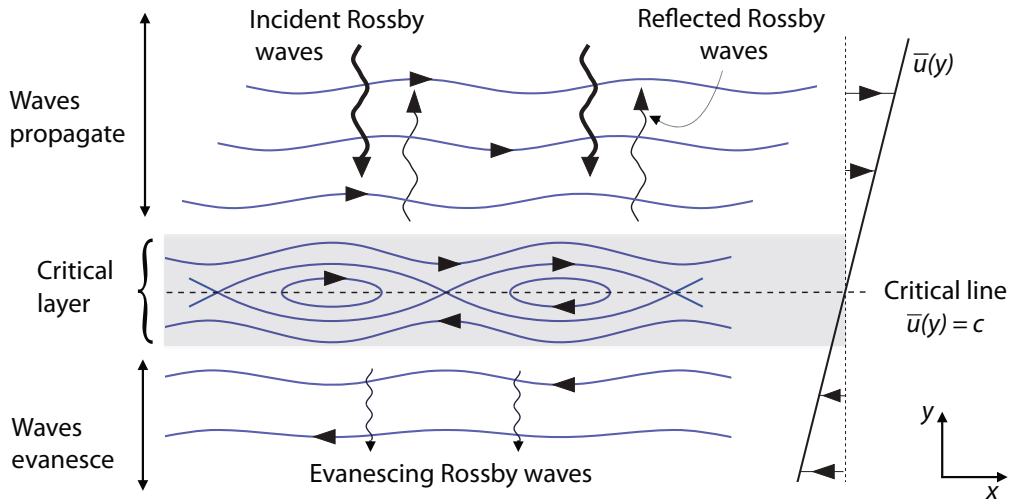


Fig. 16.5

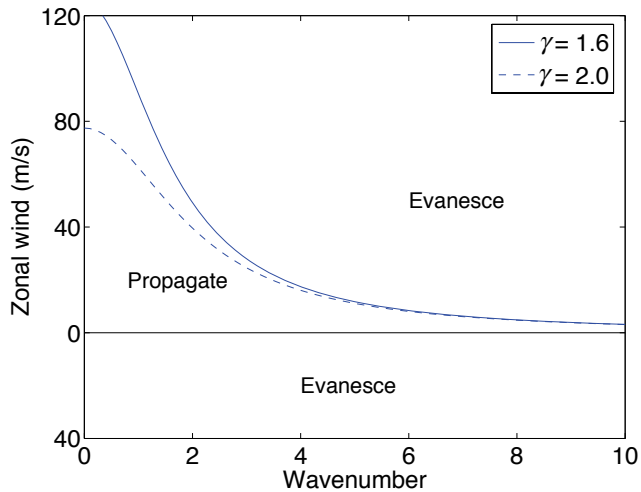


Fig. 16.6

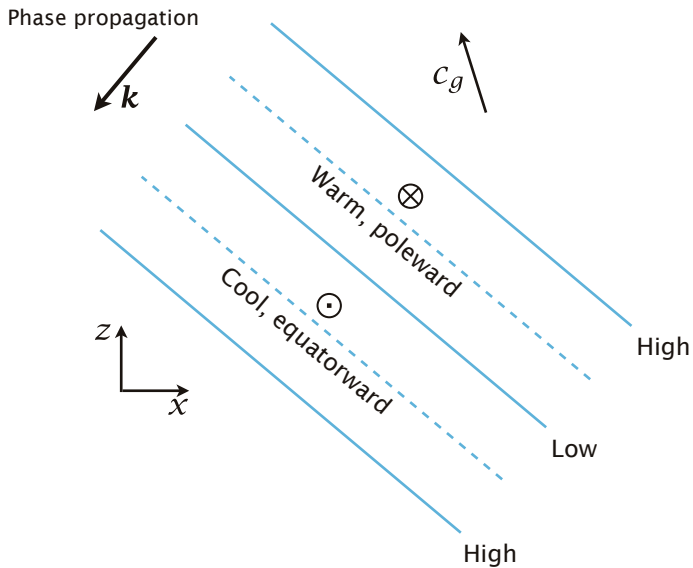


Fig. 16.7

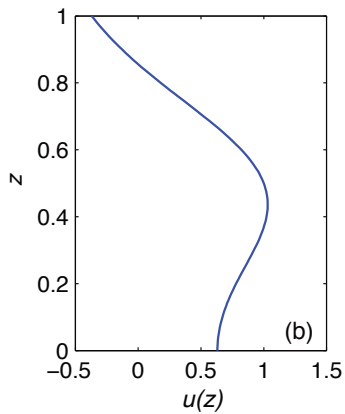
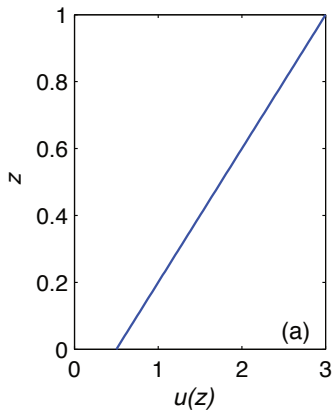


Fig. 16.8

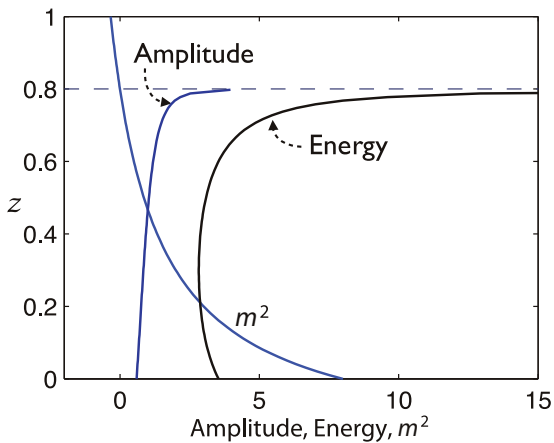
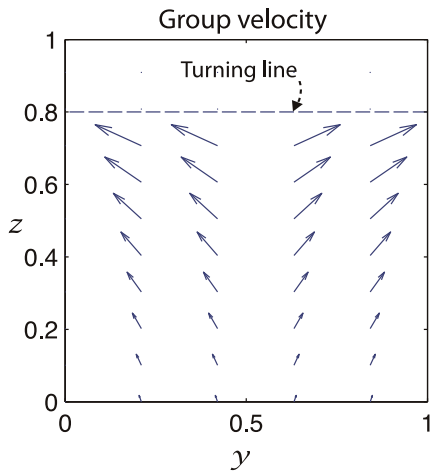


Fig. 16.9

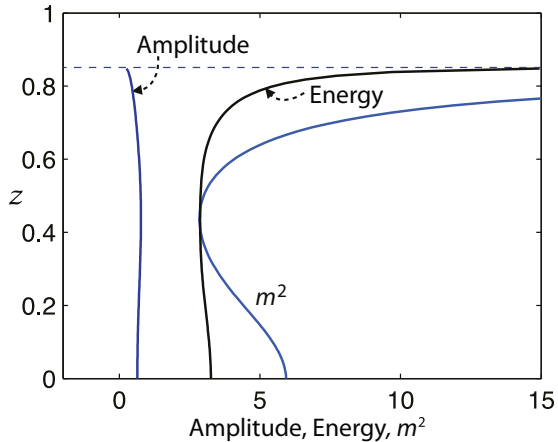
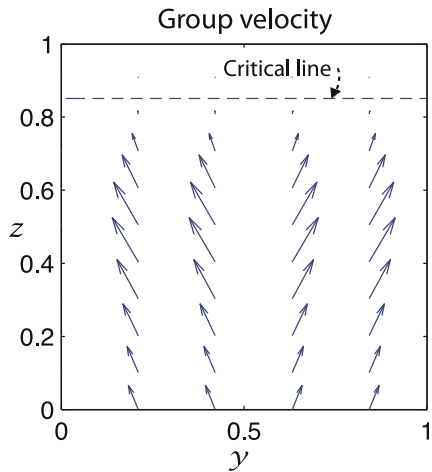


Fig. 16.10

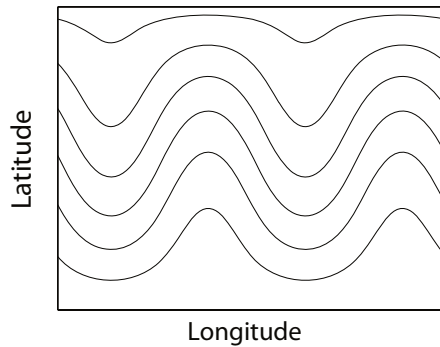
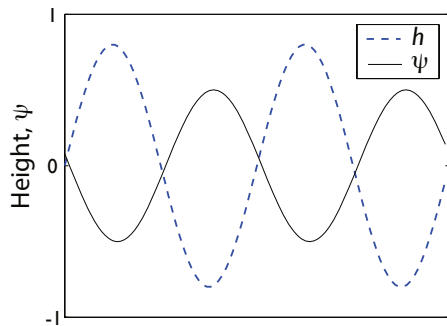
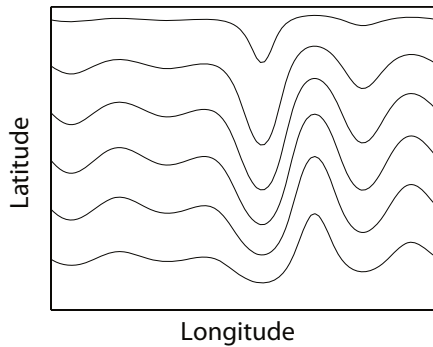
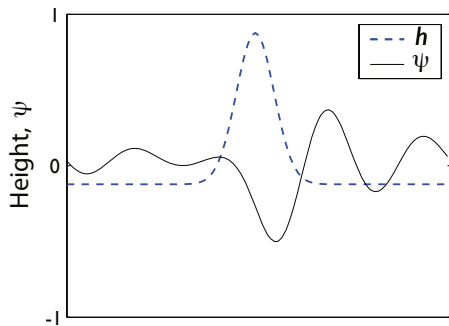


Fig. 16.11

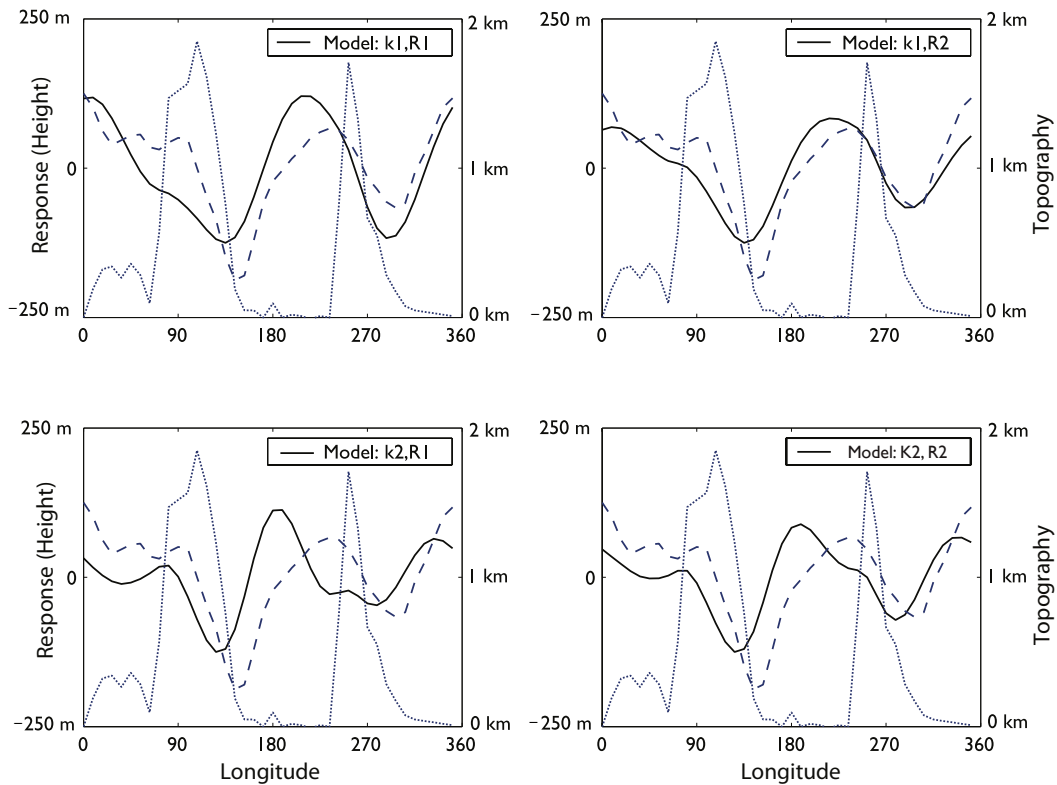


Fig. 16.12

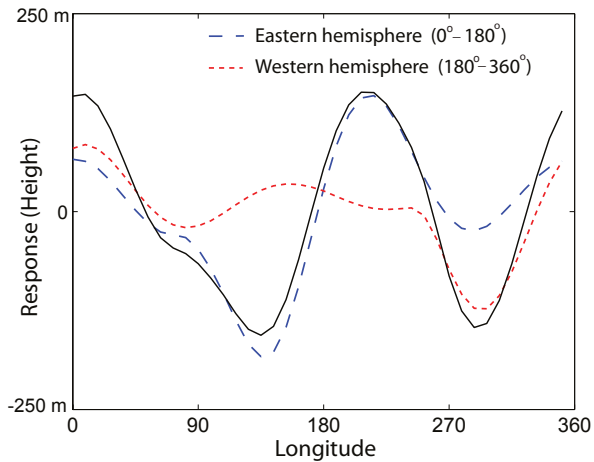


Fig. 16.13

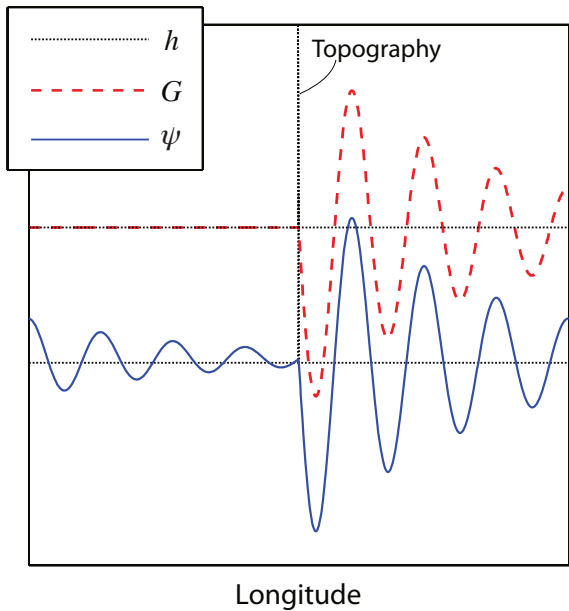
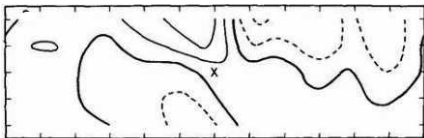
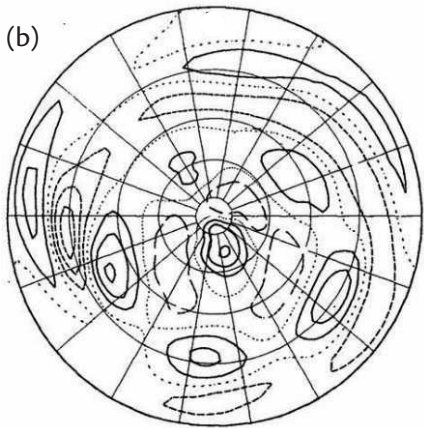


Fig. 16.14

(a)



(b)



(c)

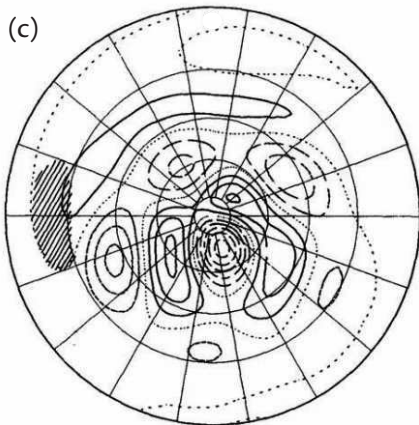


Fig. 16.15

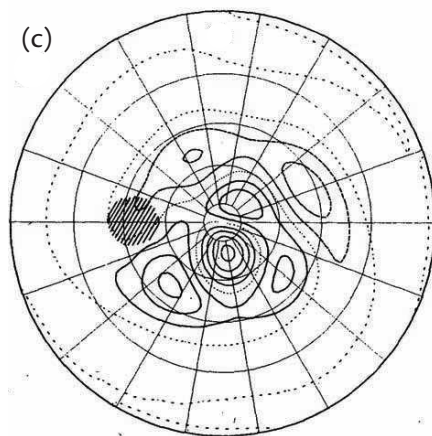
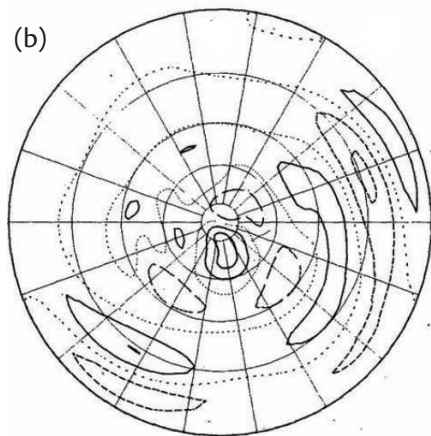
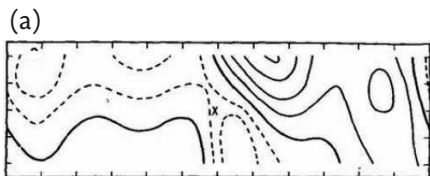


Fig. 16.16

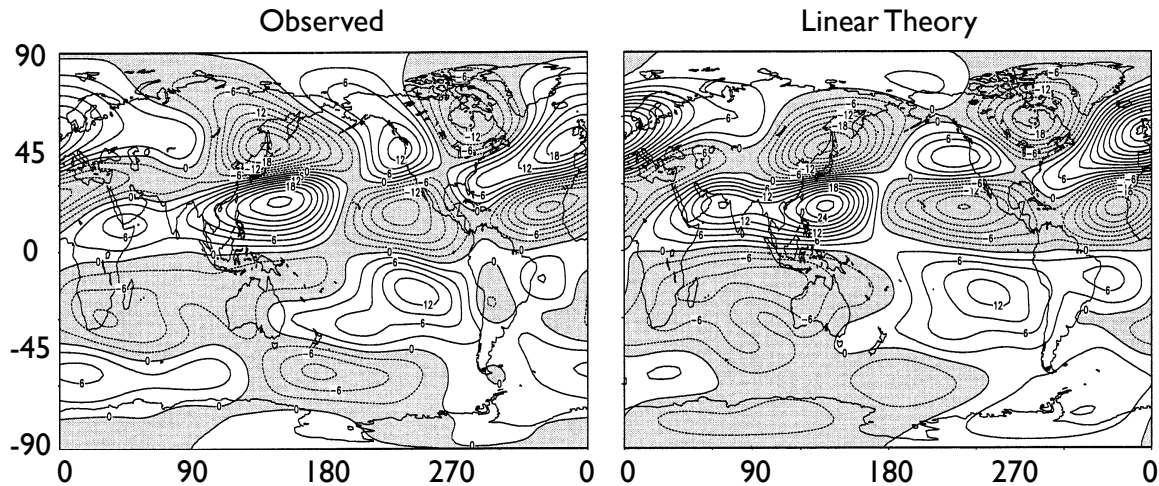


Fig. 16.17

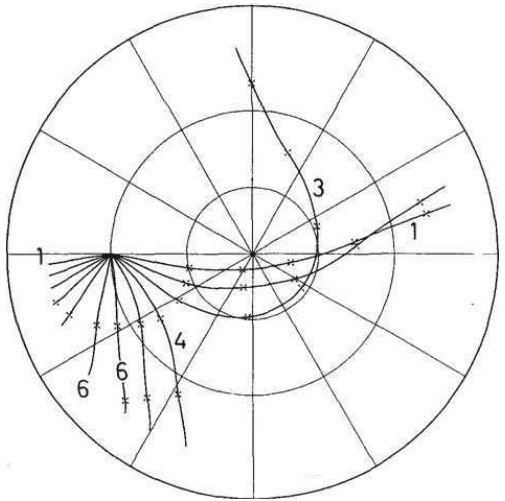


Fig. 16.18

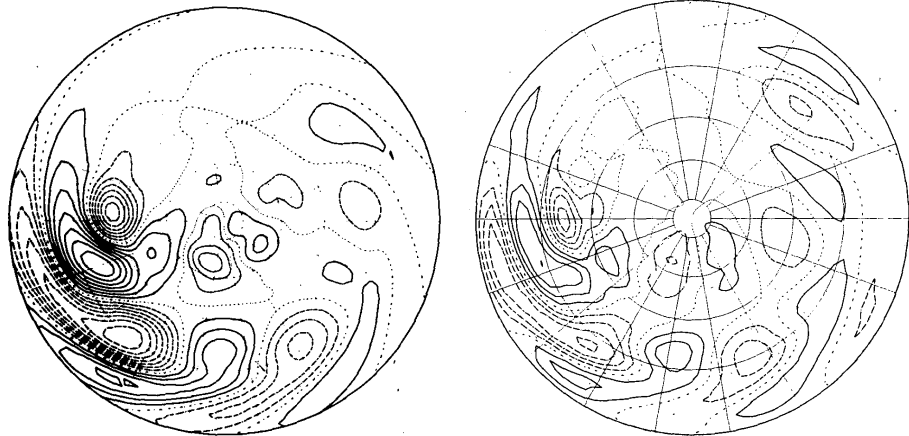


Fig. 16.19

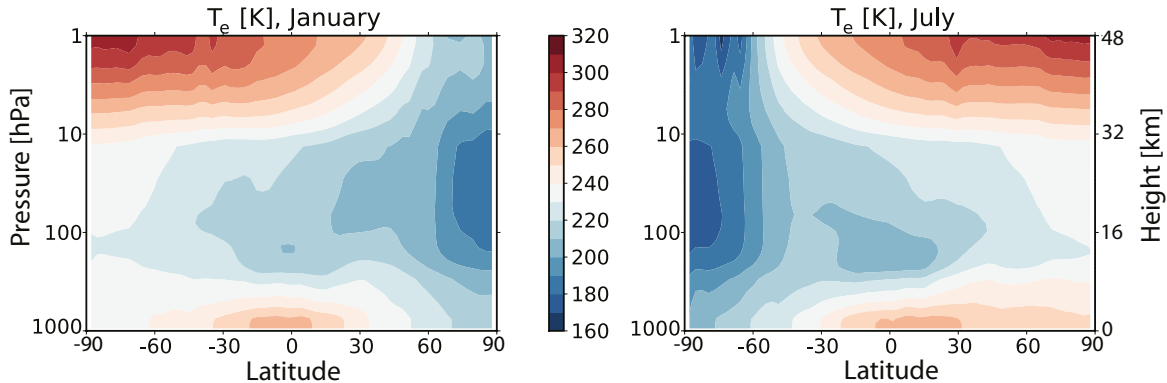


Fig. 17.1

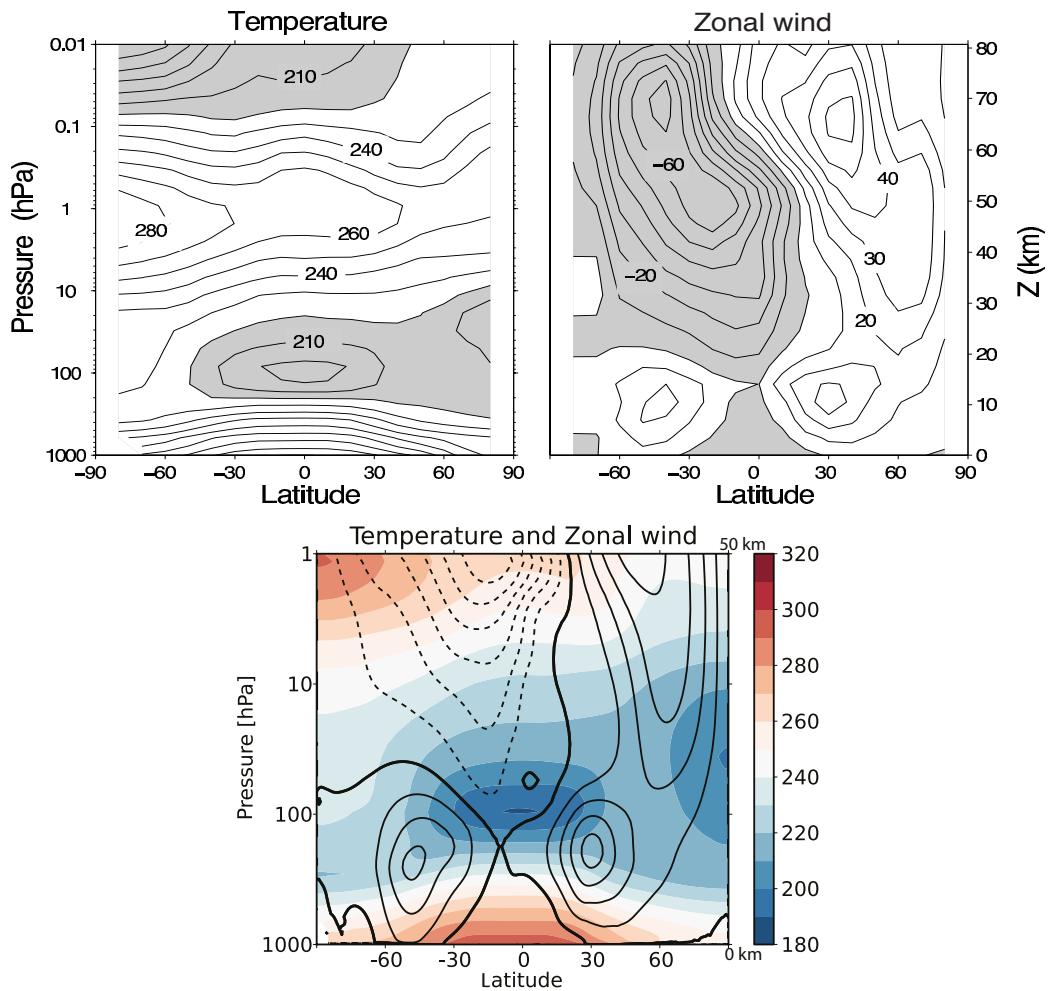
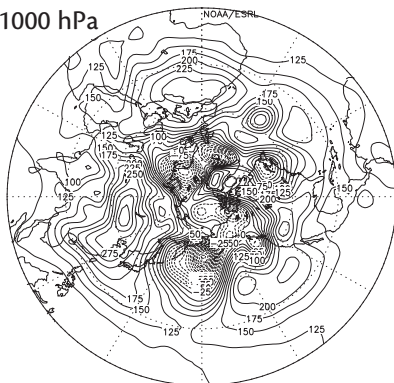
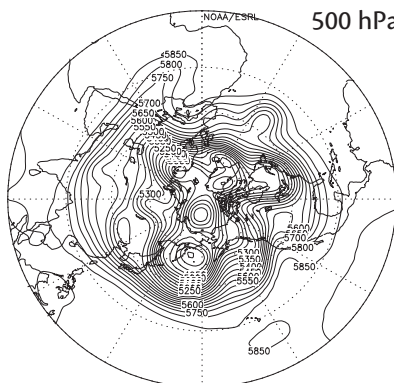


Fig. 17.2

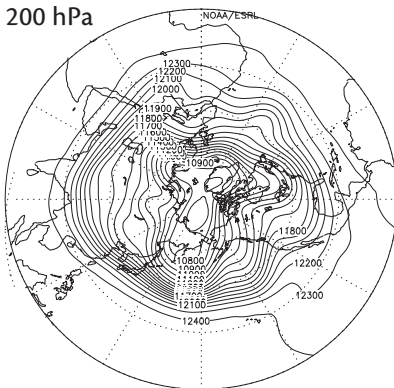
1000 hPa



500 hPa



200 hPa



20 hPa

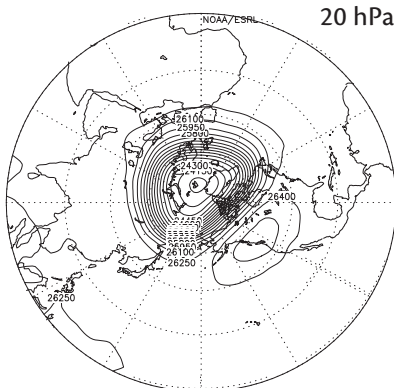


Fig. 17.3

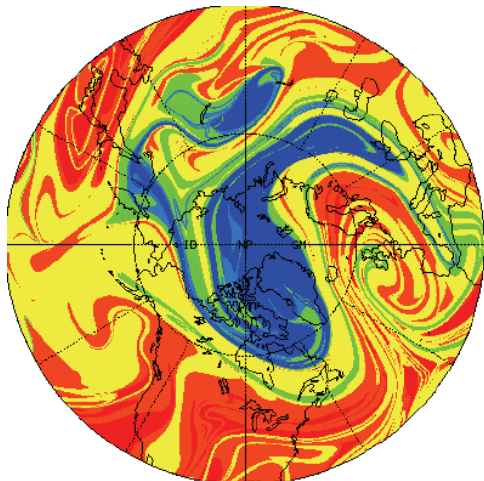


Fig. 17.4

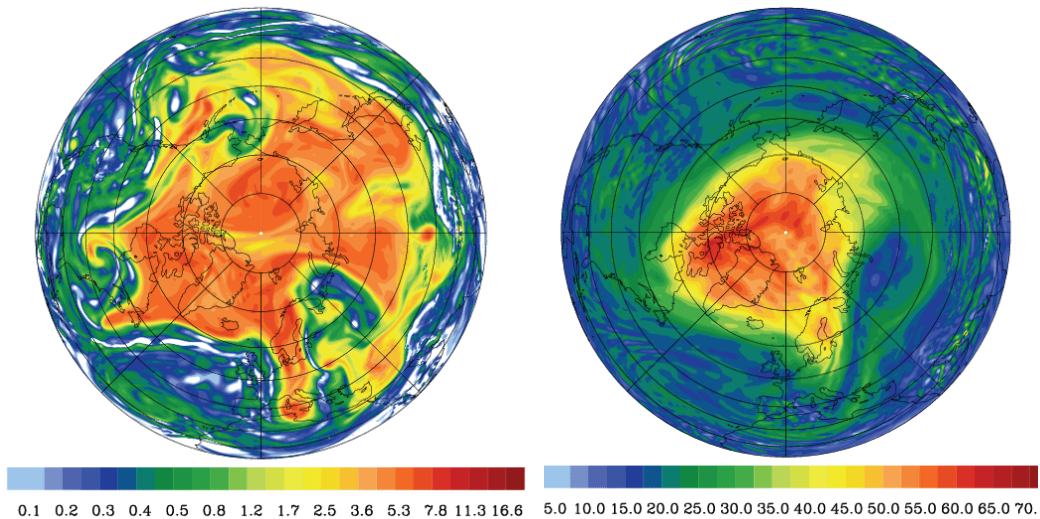


Fig. 17.5

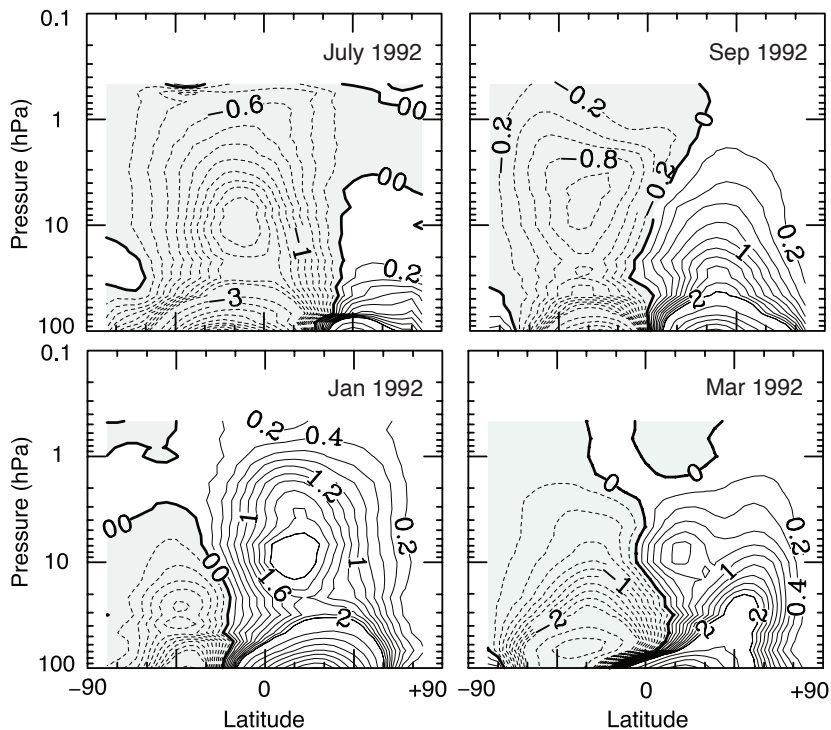


Fig. 17.6

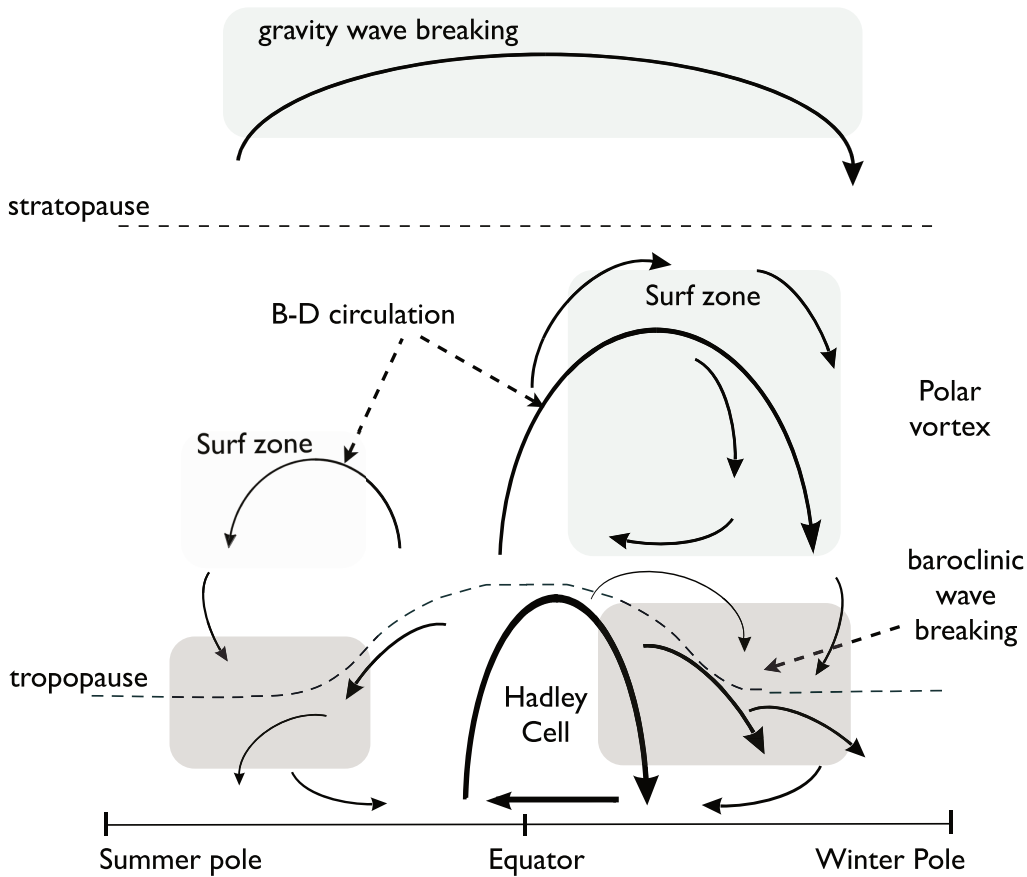


Fig. 17.7

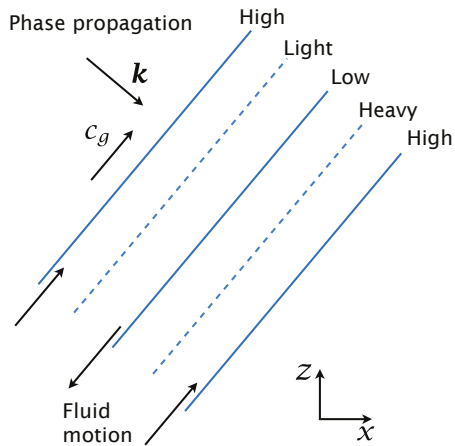
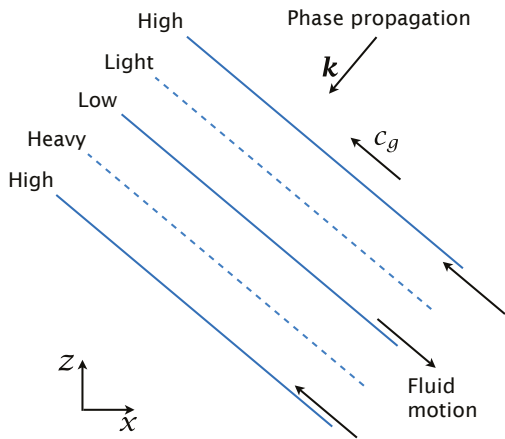


Fig. 17.8

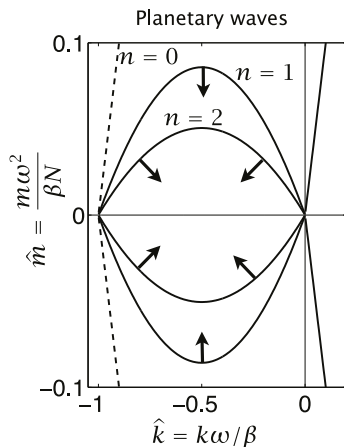
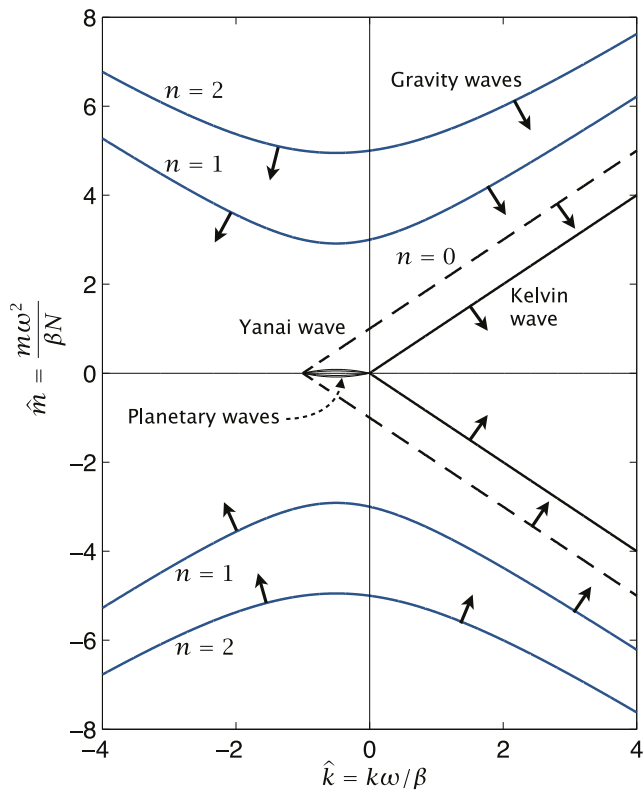


Fig. 17.9

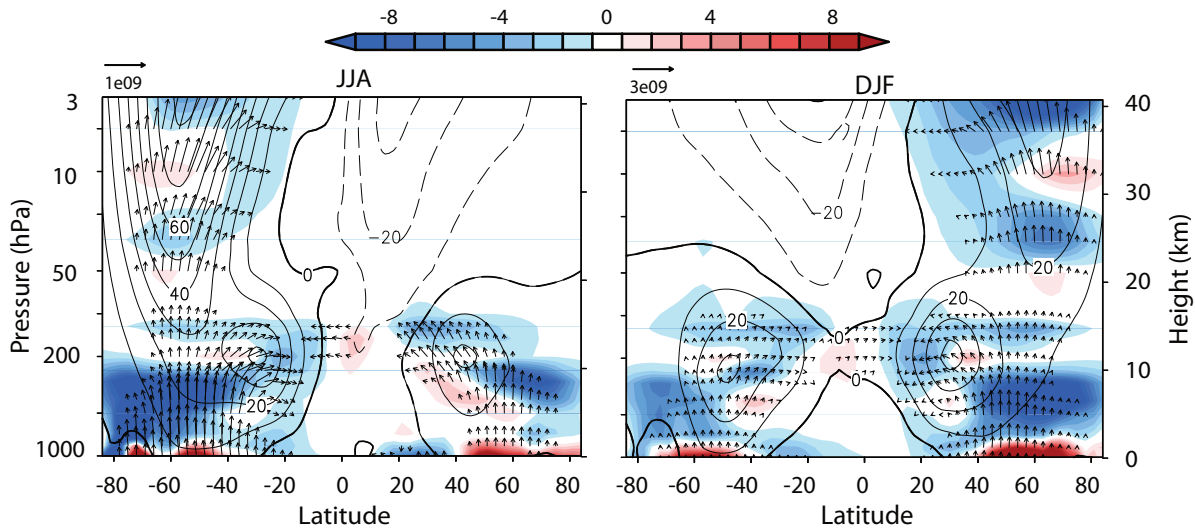


Fig. 17.10

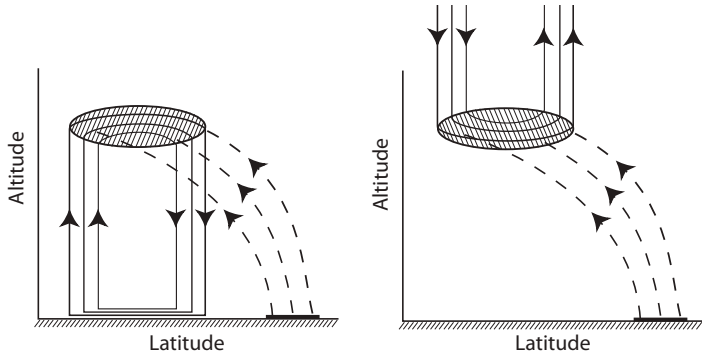


Fig. 17.11

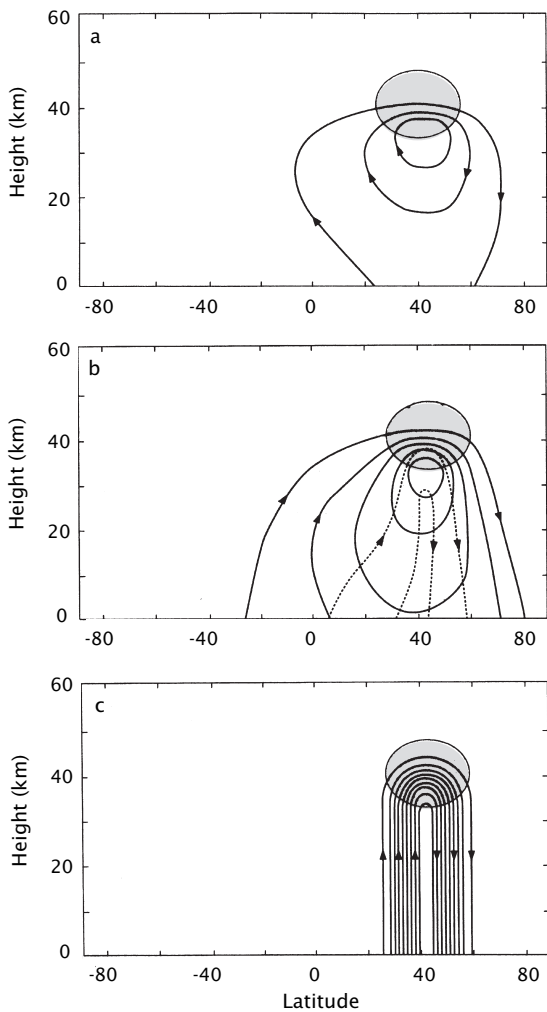


Fig. 17.12

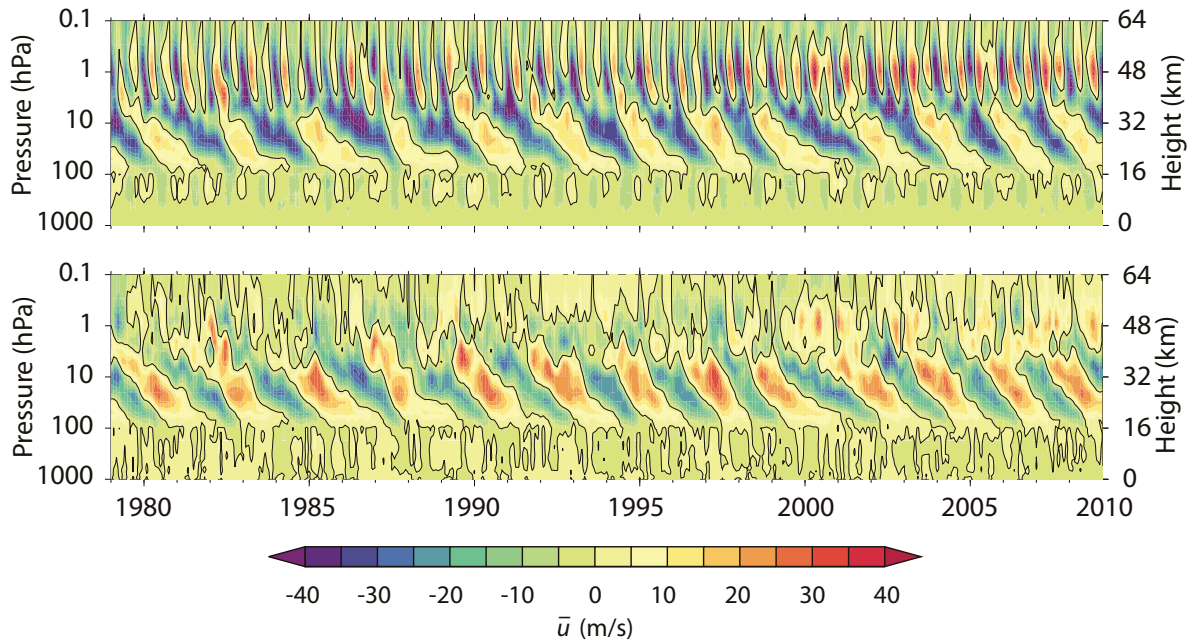


Fig. 17.13

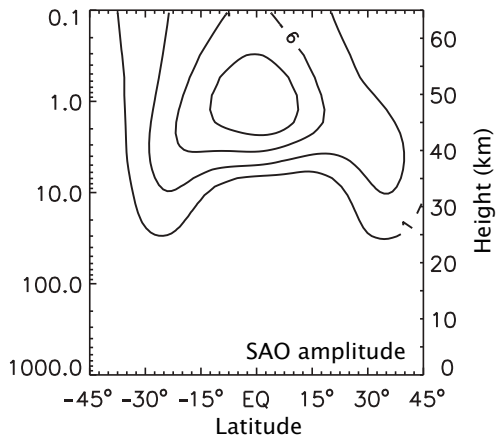
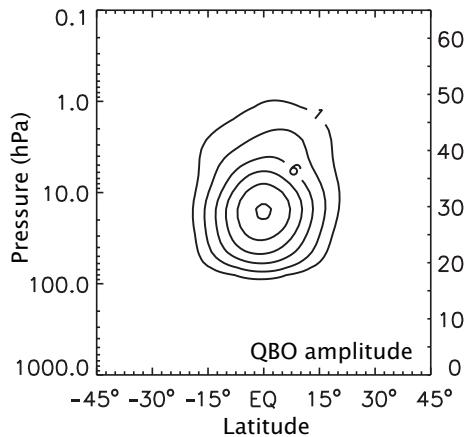


Fig. 17.14

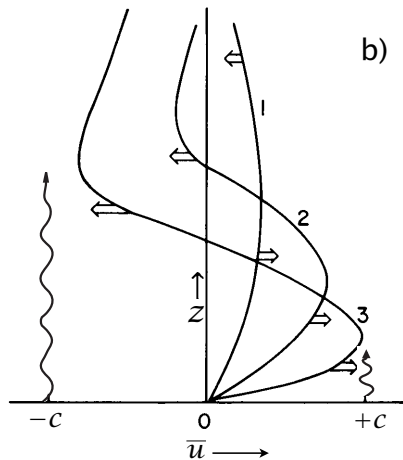
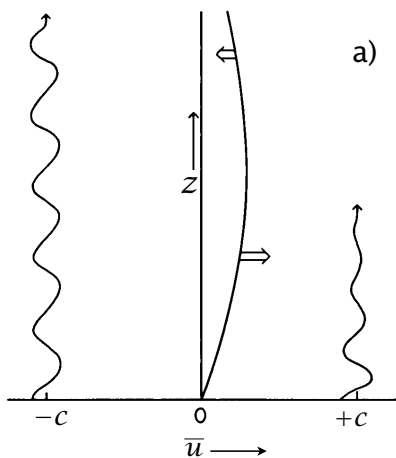


Fig. 17.15

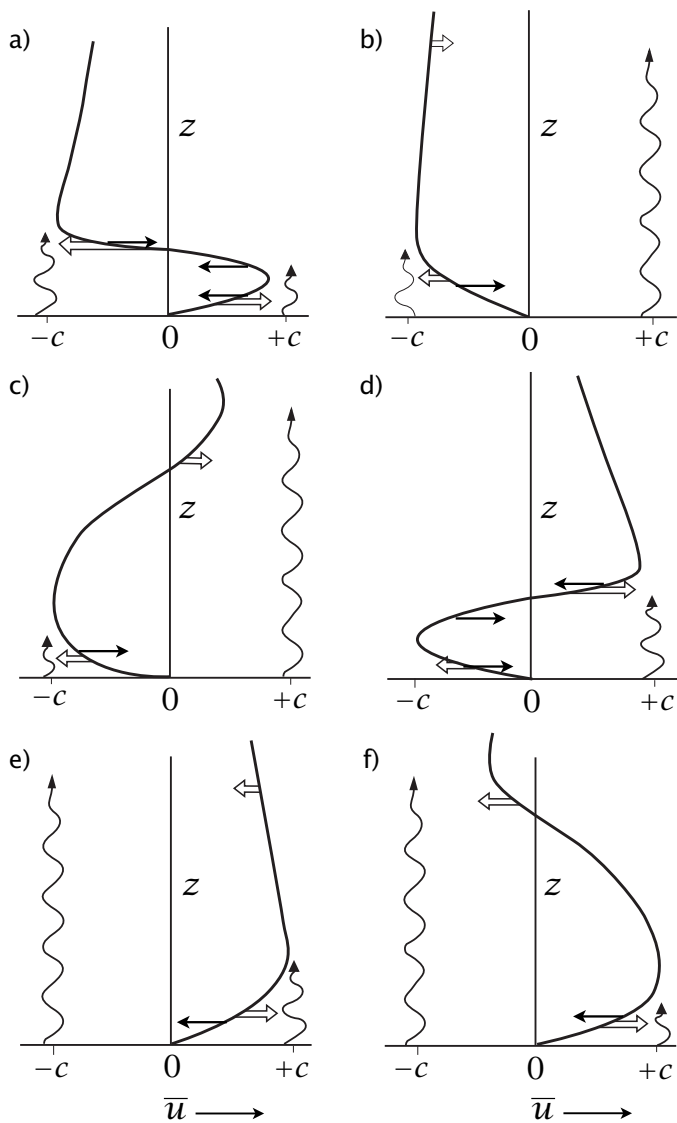


Fig. 17.16

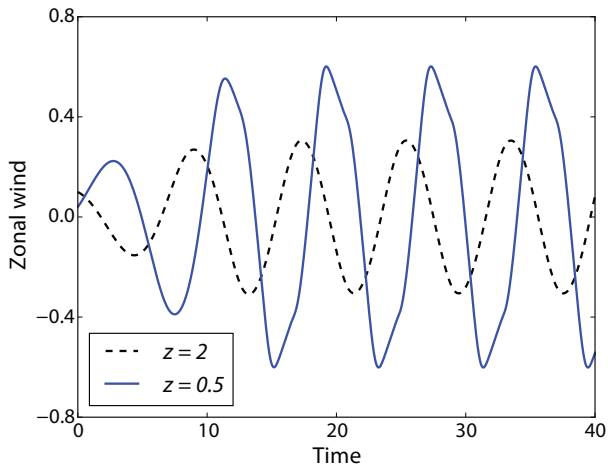


Fig. 17.17

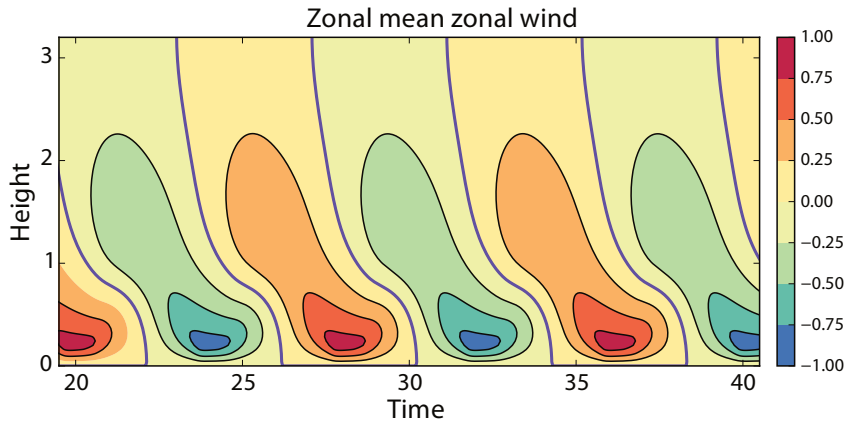


Fig. 17.18

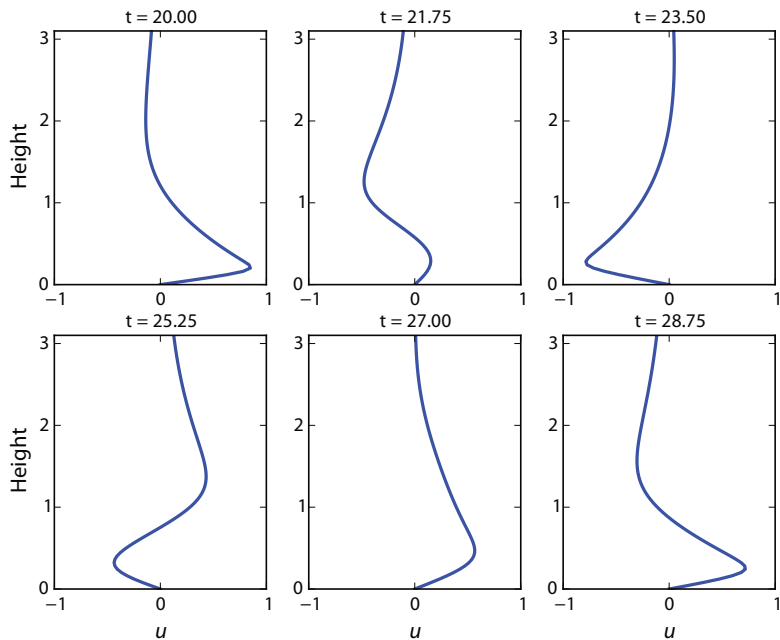


Fig. 17.19

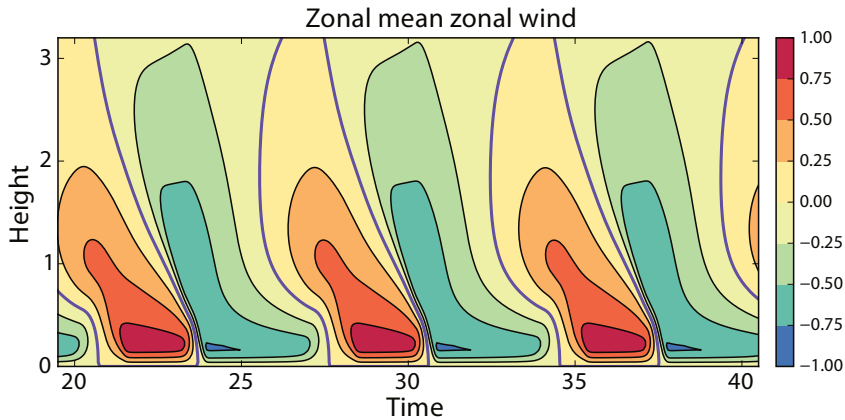


Fig. 17.20

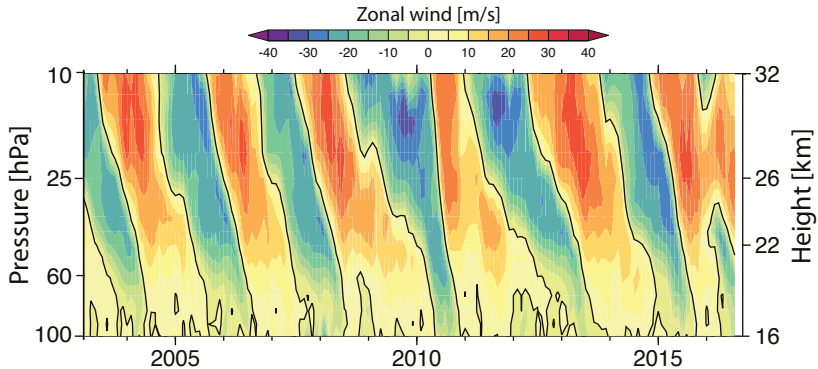


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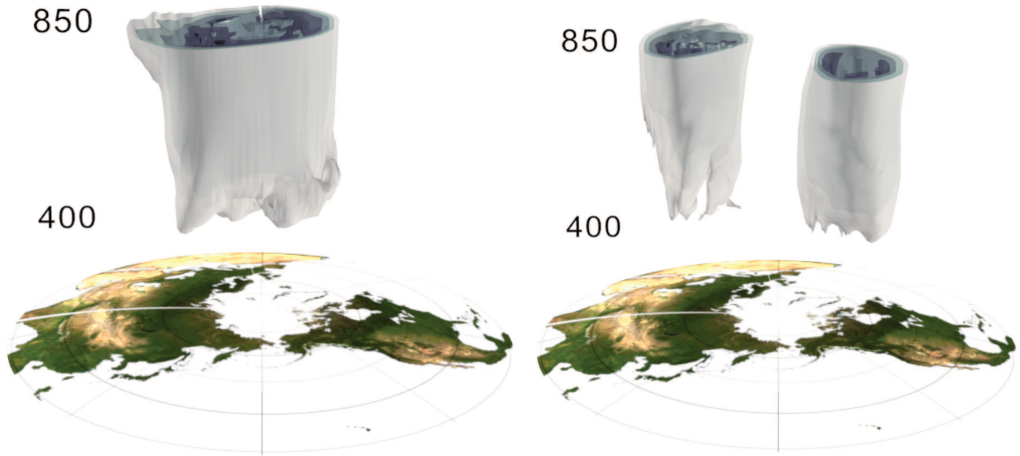
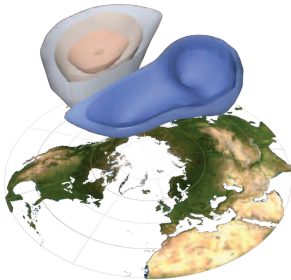
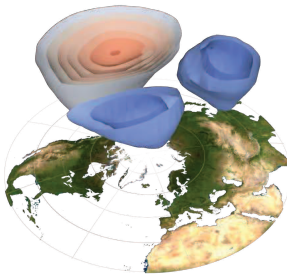


Fig. 17.22

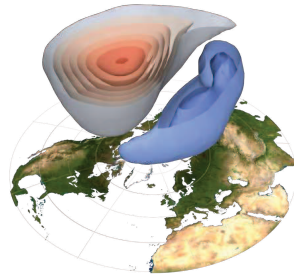
Feb 18 1984



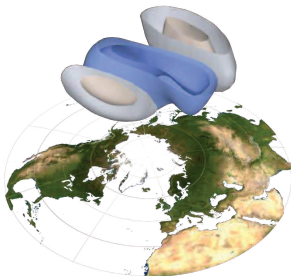
Feb 23 1984



Feb 28 1984



Feb 15 1979



Feb 19 1979



Feb 23 1979

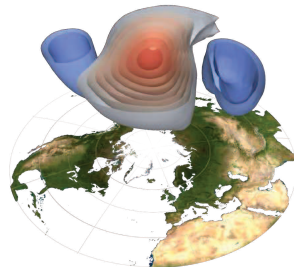


Fig. 17.23

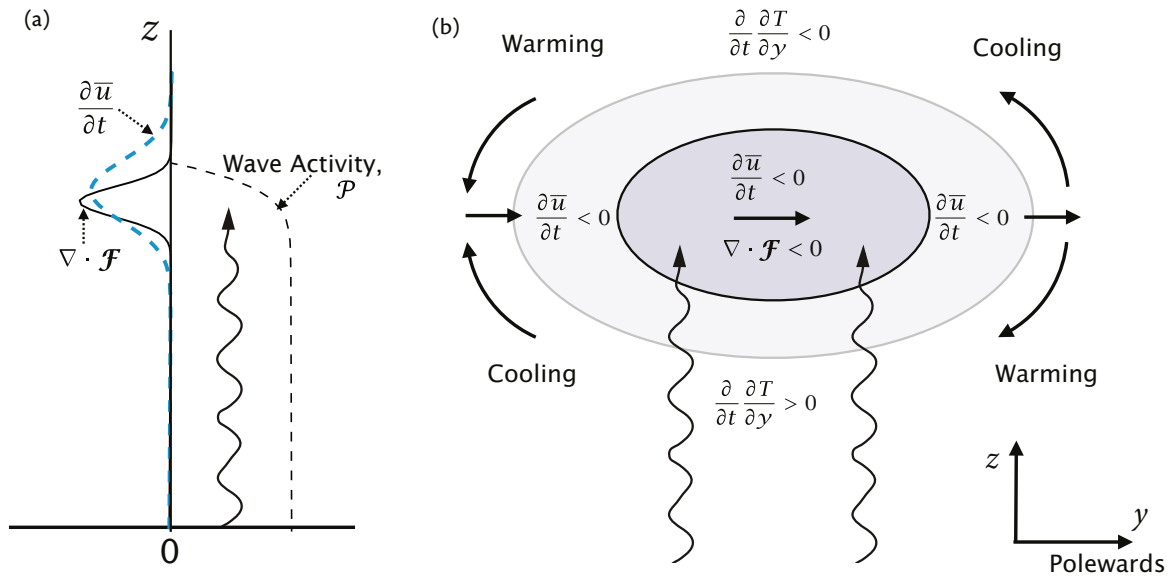


Fig. 17.24

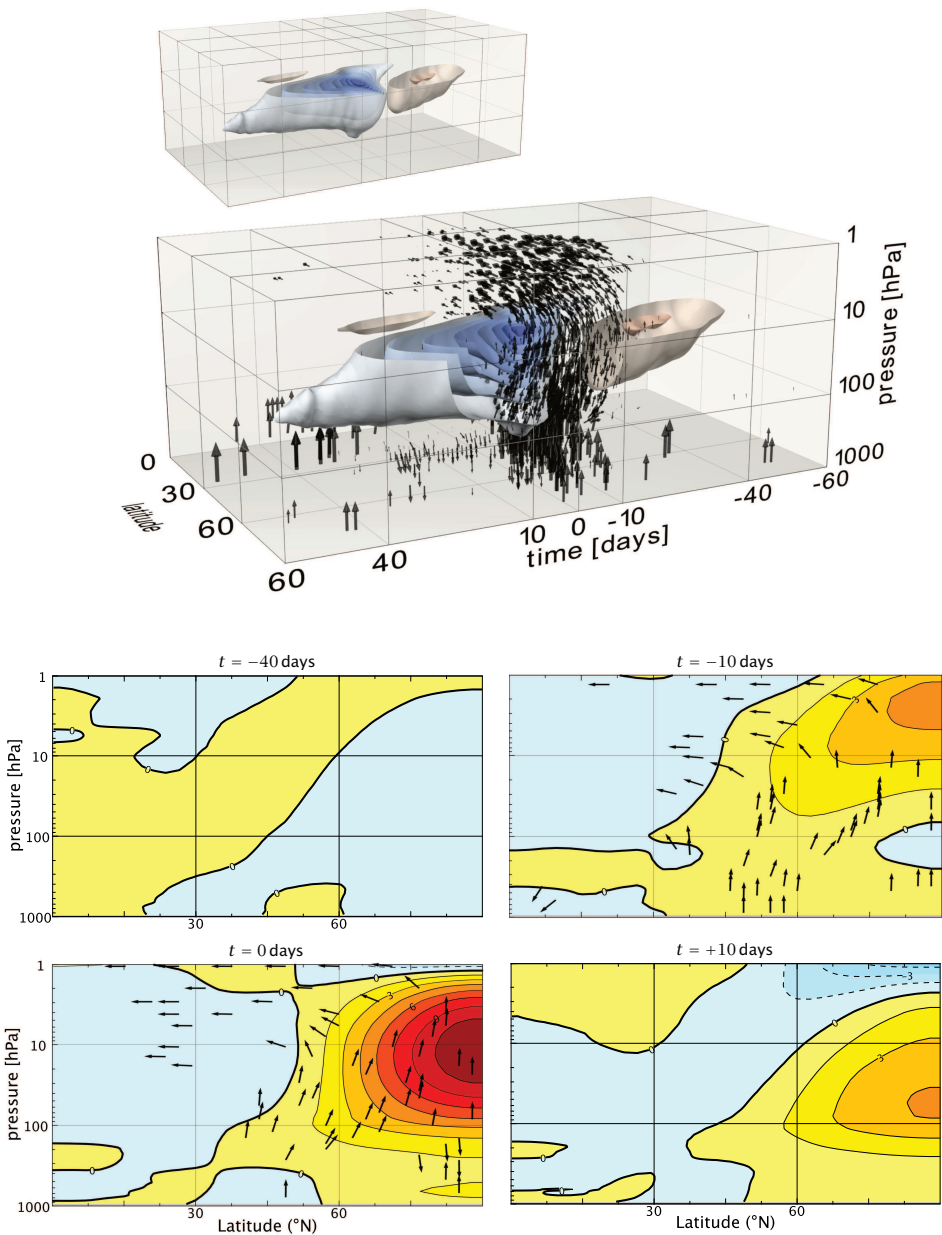


Fig. 17.25

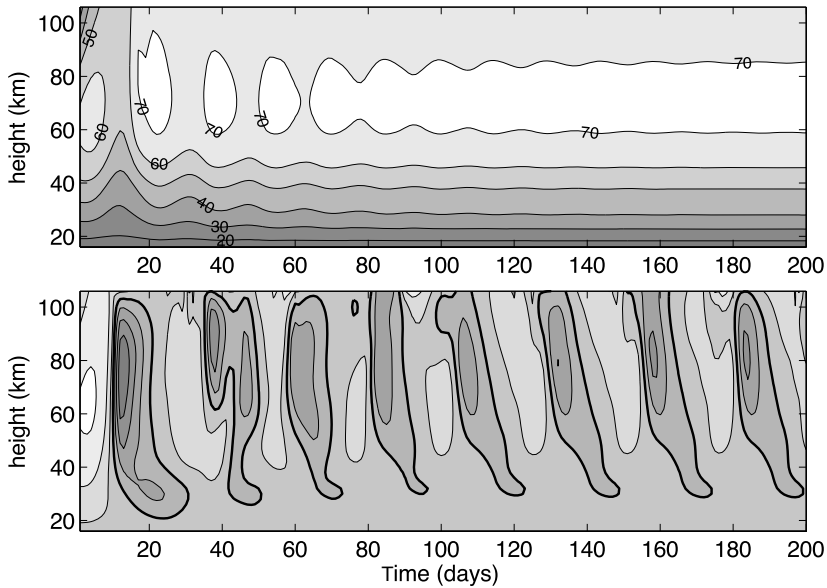


Fig. 17.26

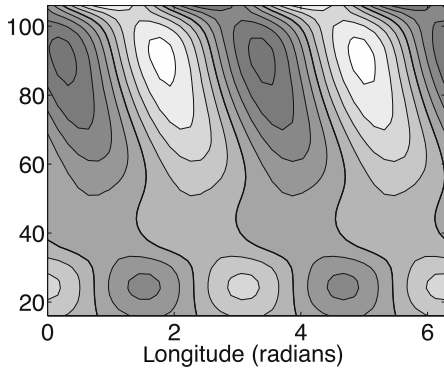
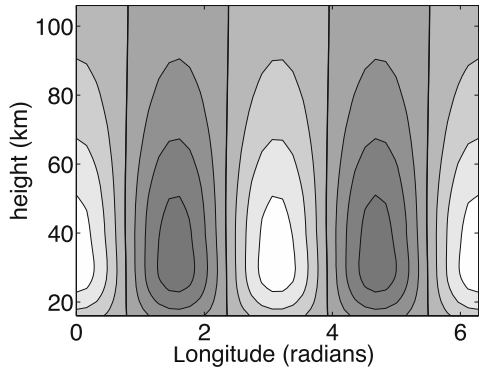


Fig. 17.27

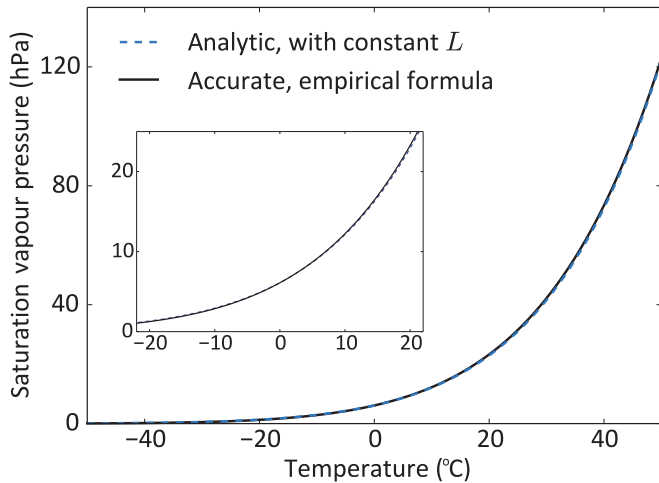


Fig. 18.1

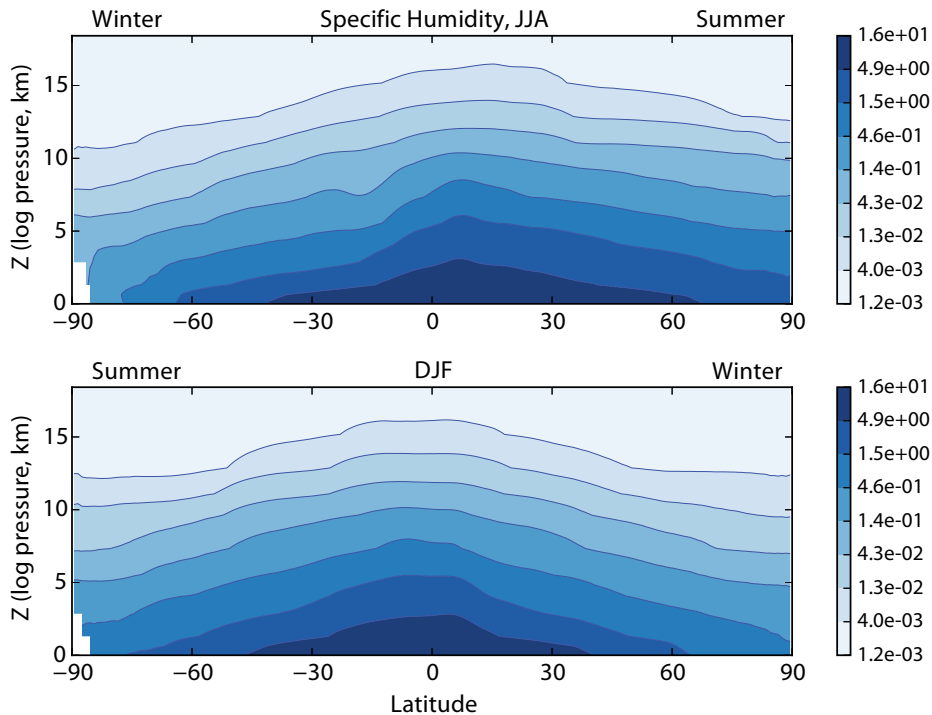


Fig. 18.2

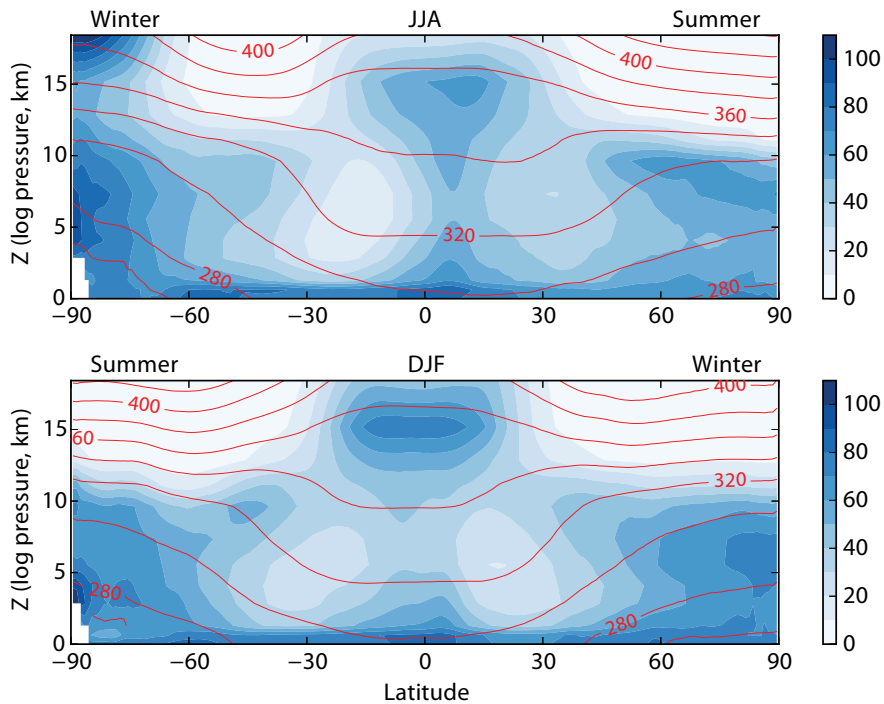


Fig. 18.3

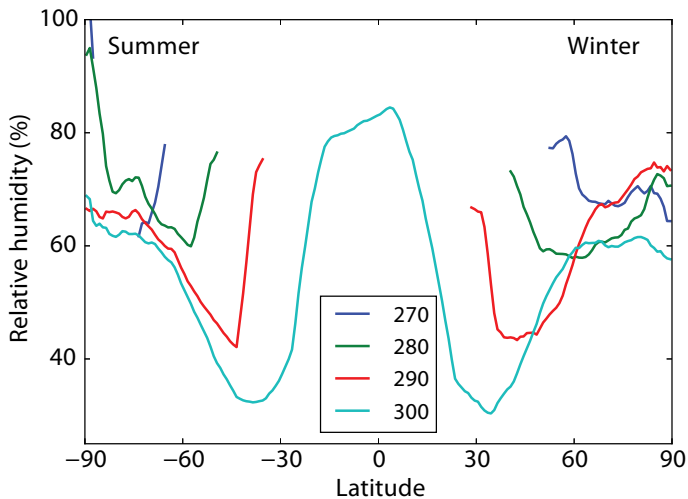


Fig. 18.4

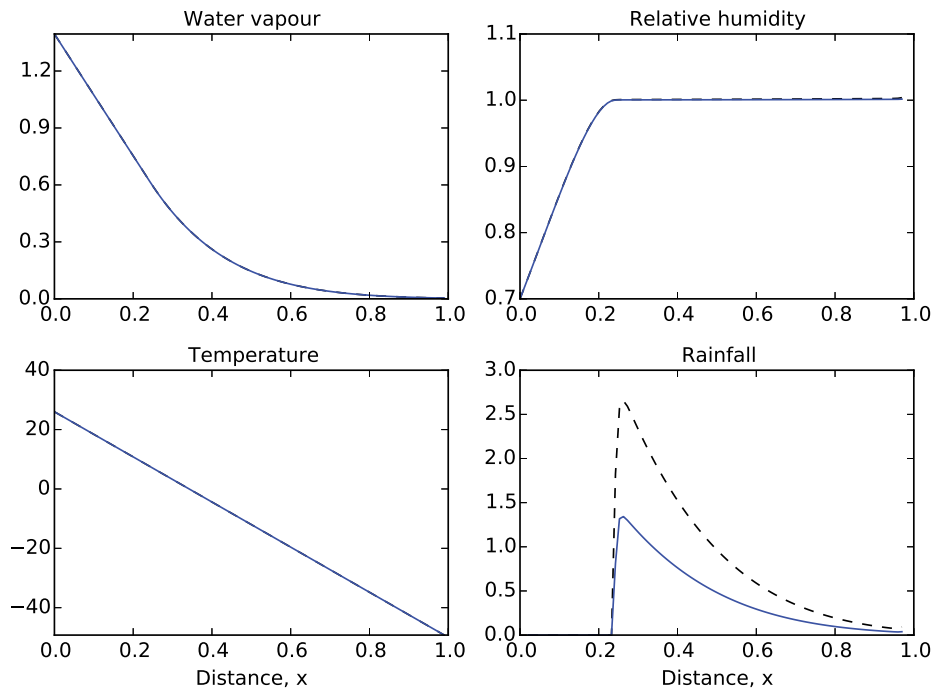


Fig. 18.5

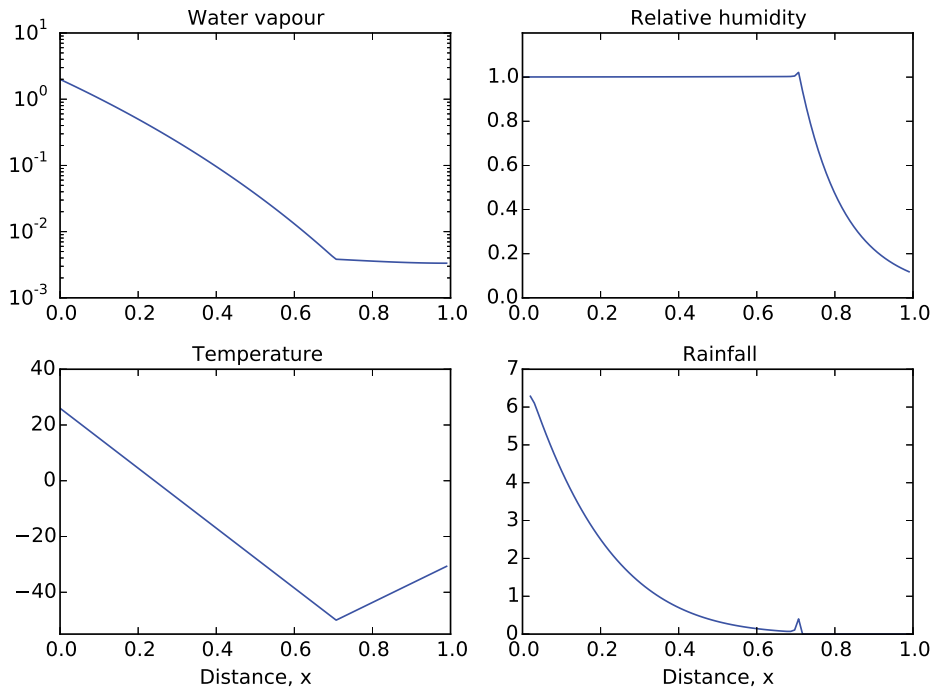


Fig. 18.6

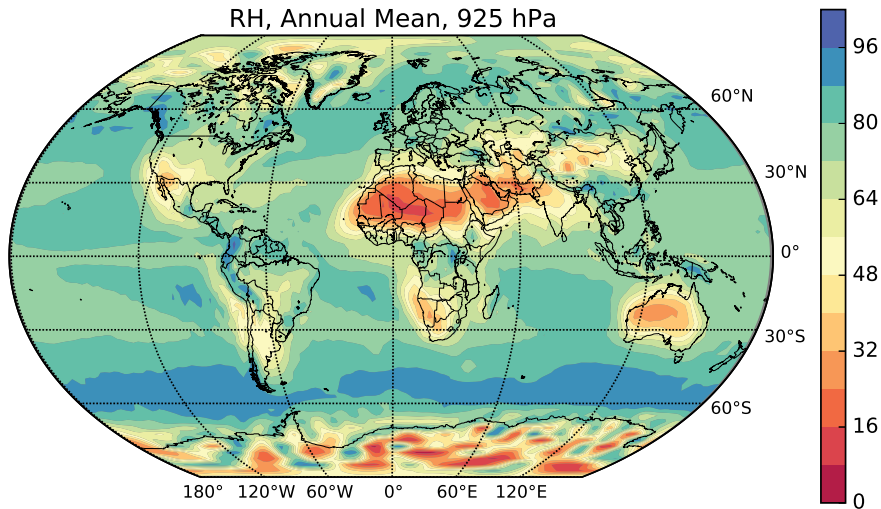


Fig. 18.7

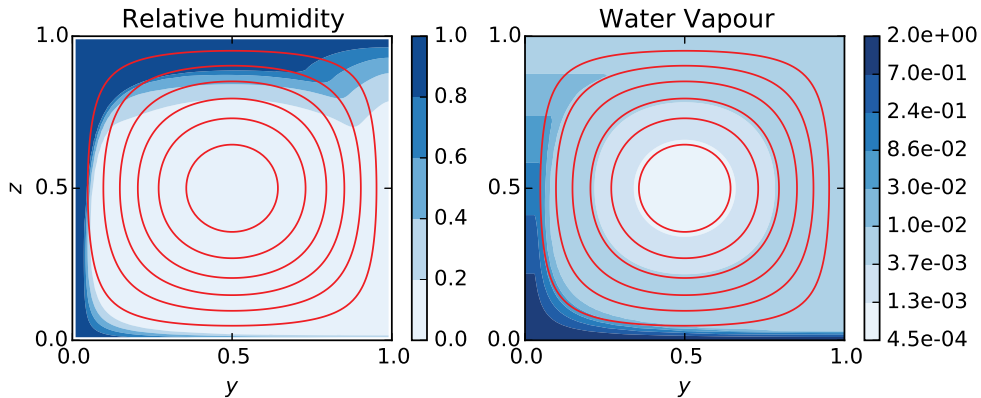


Fig. 18.8

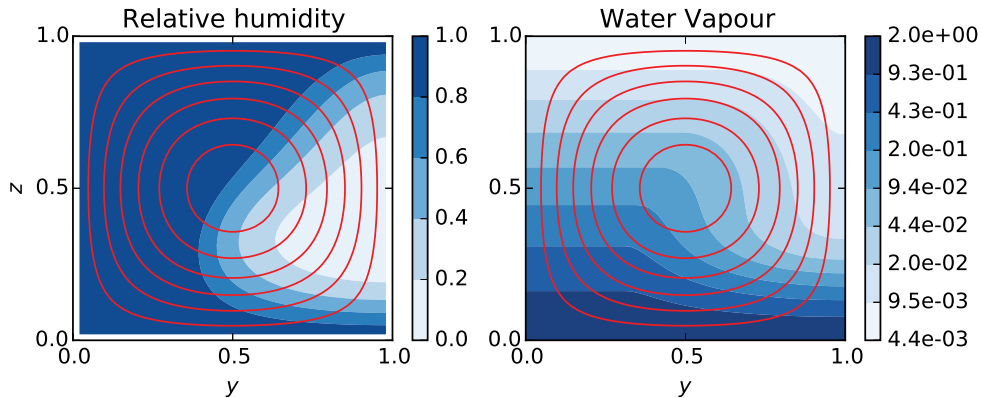


Fig. 18.9

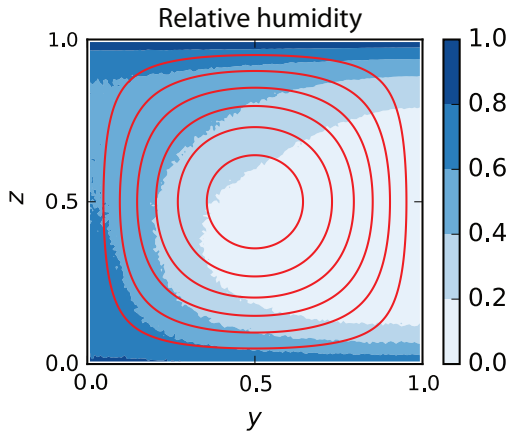
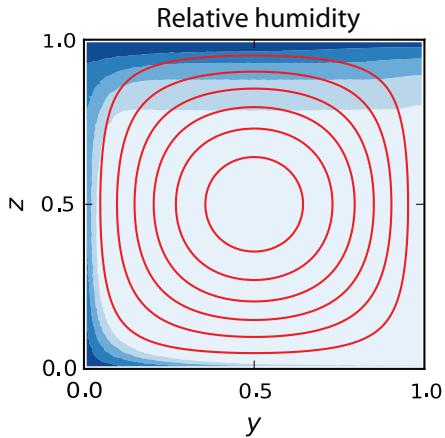


Fig. 18.10

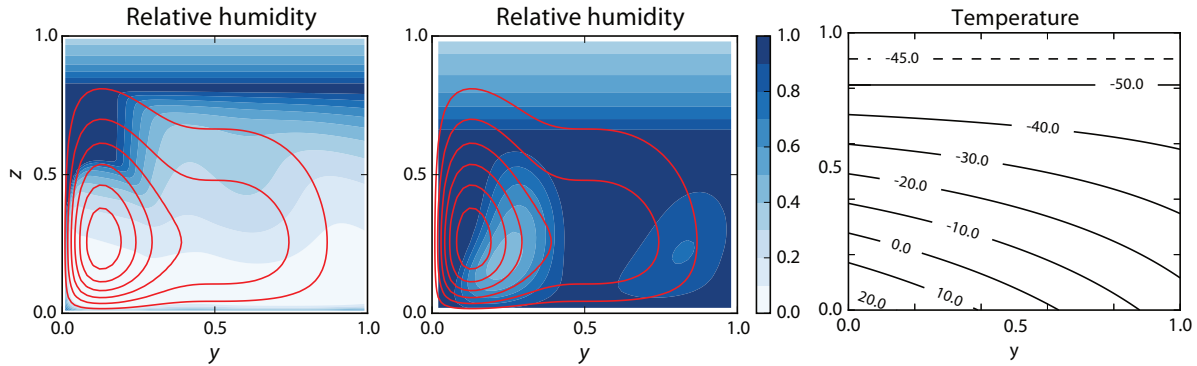


Fig. 18.11

Relative humidity, 500 hPa

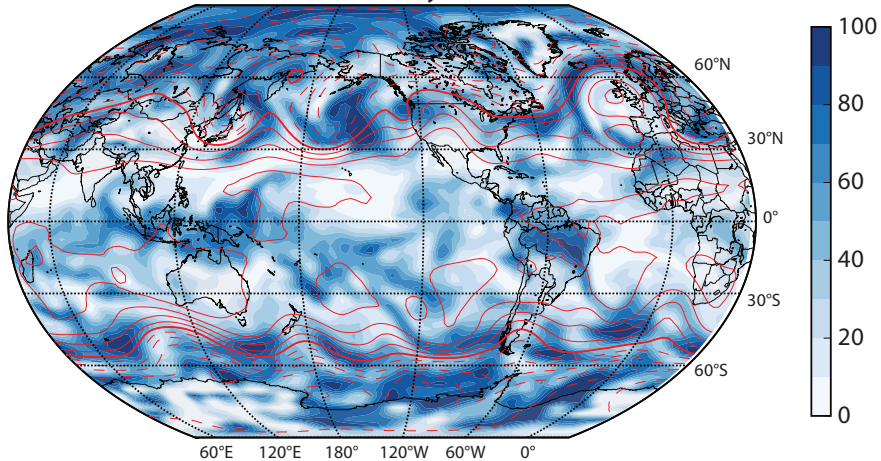


Fig. 18.12

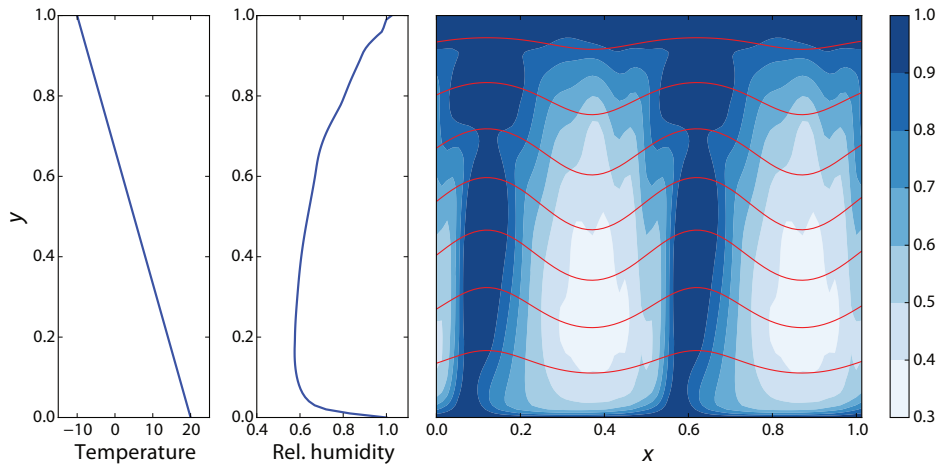


Fig. 18.13

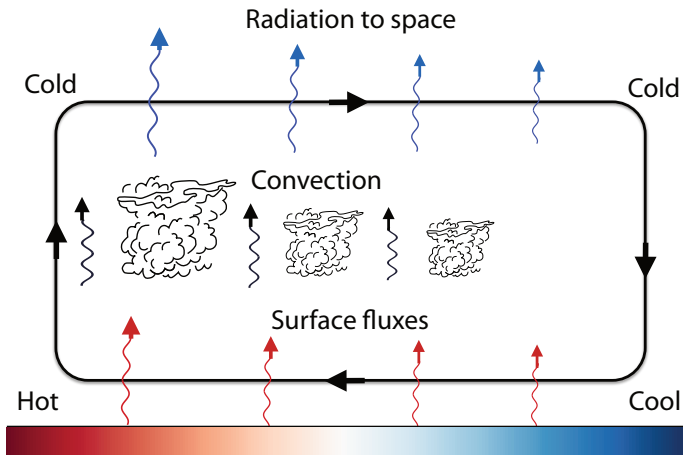


Fig. 18.14

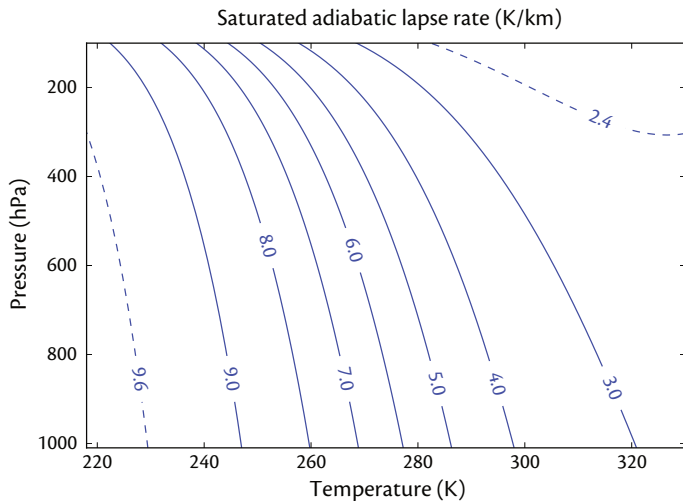


Fig. 18.15

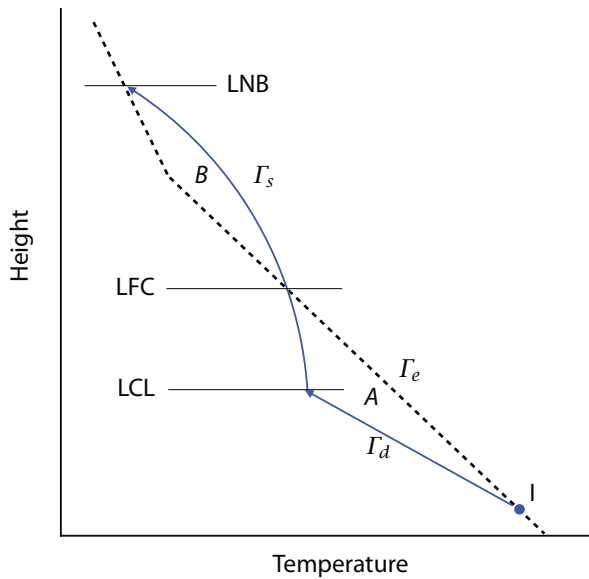


Fig. 18.16

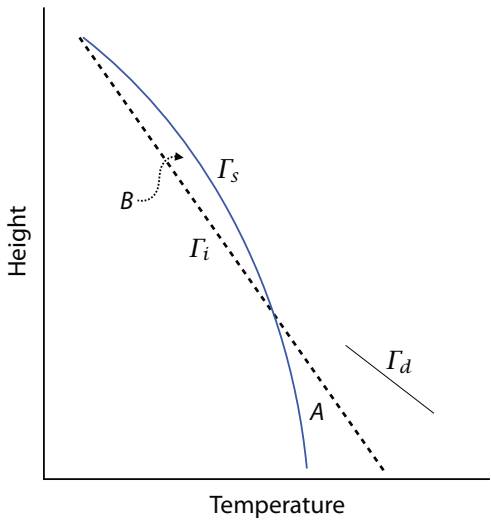


Fig. 18.17

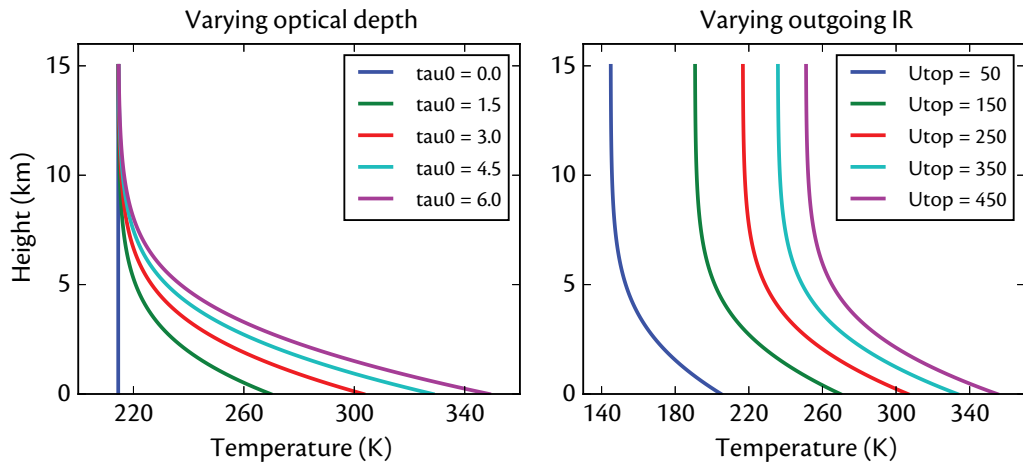


Fig. 18.18

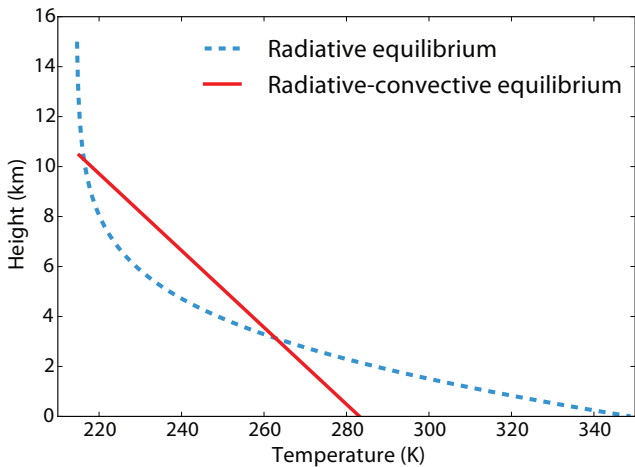


Fig. 18.19

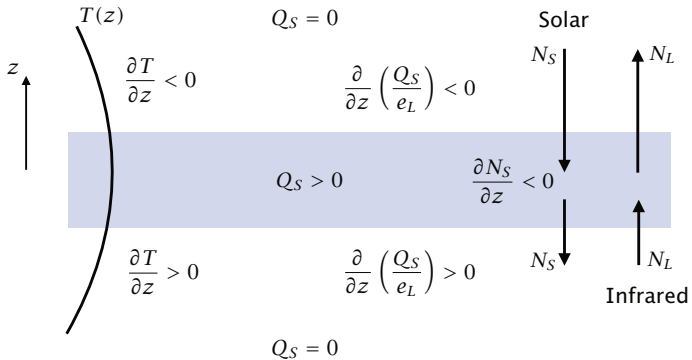


Fig. 18.20

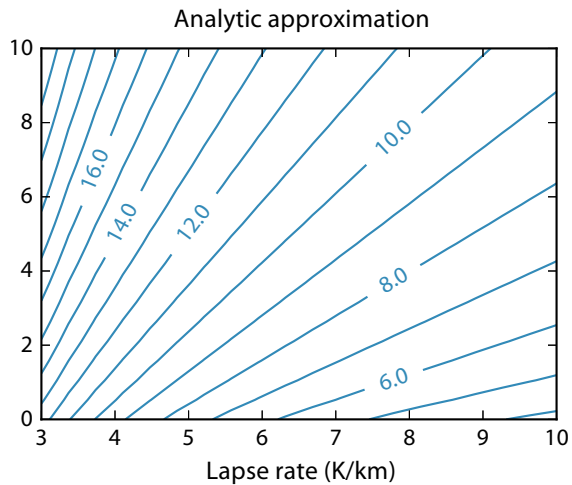
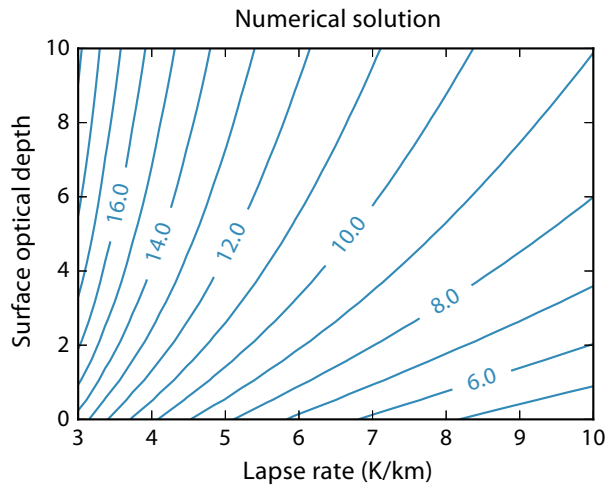


Fig. 18.21

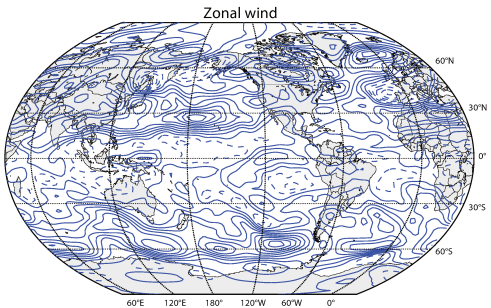
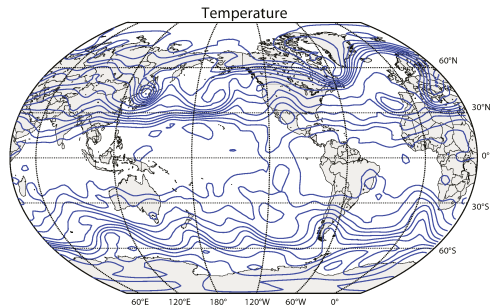
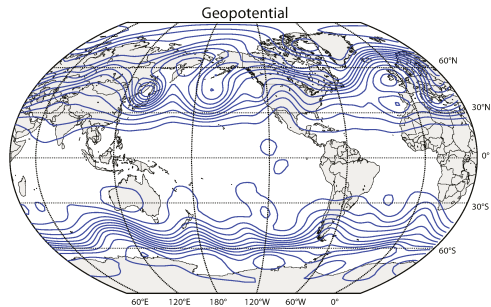


Fig. 18.22

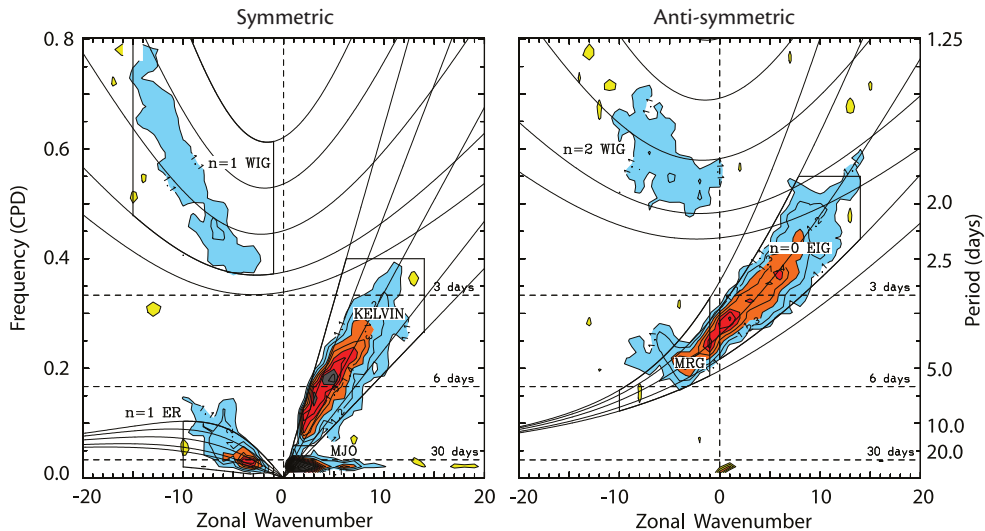


Fig. 18.23

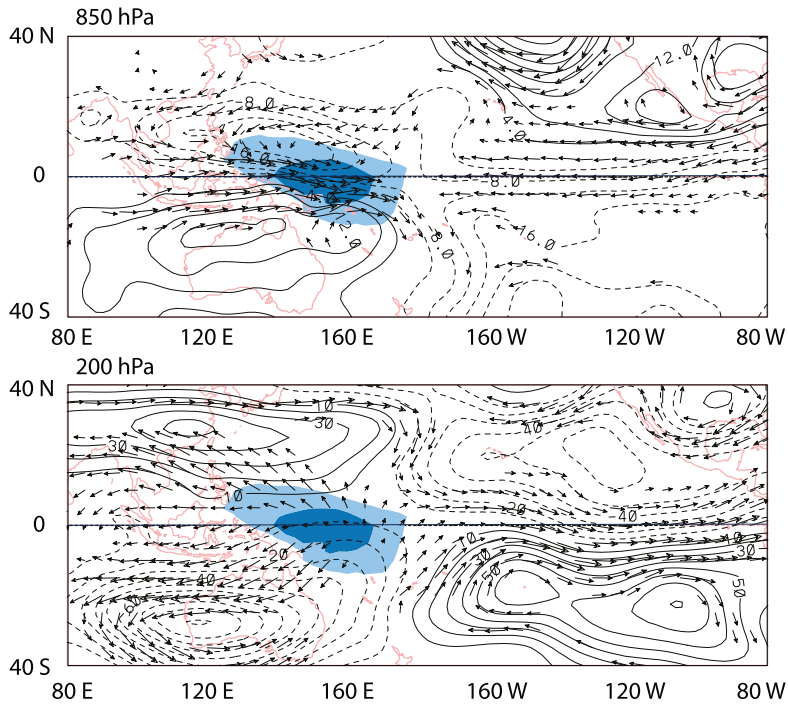


Fig. 18.24

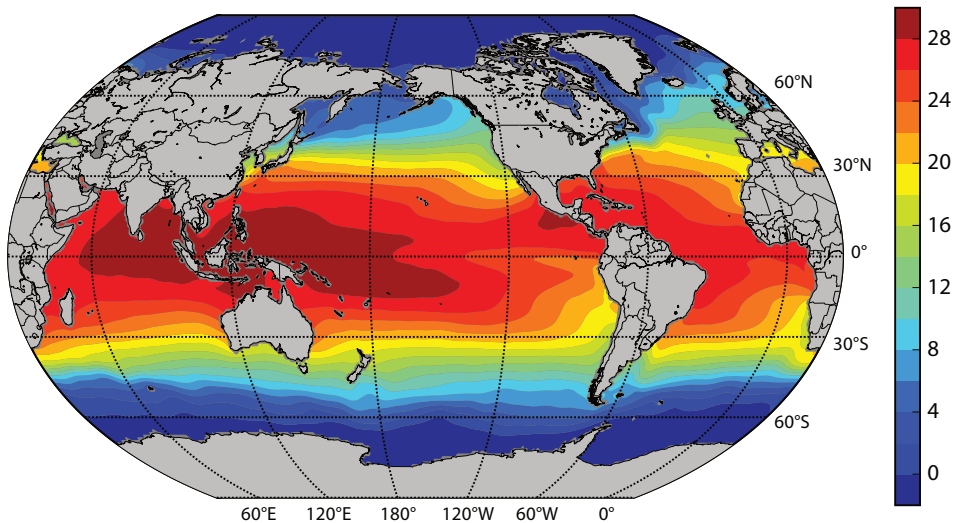


Fig. 19.1

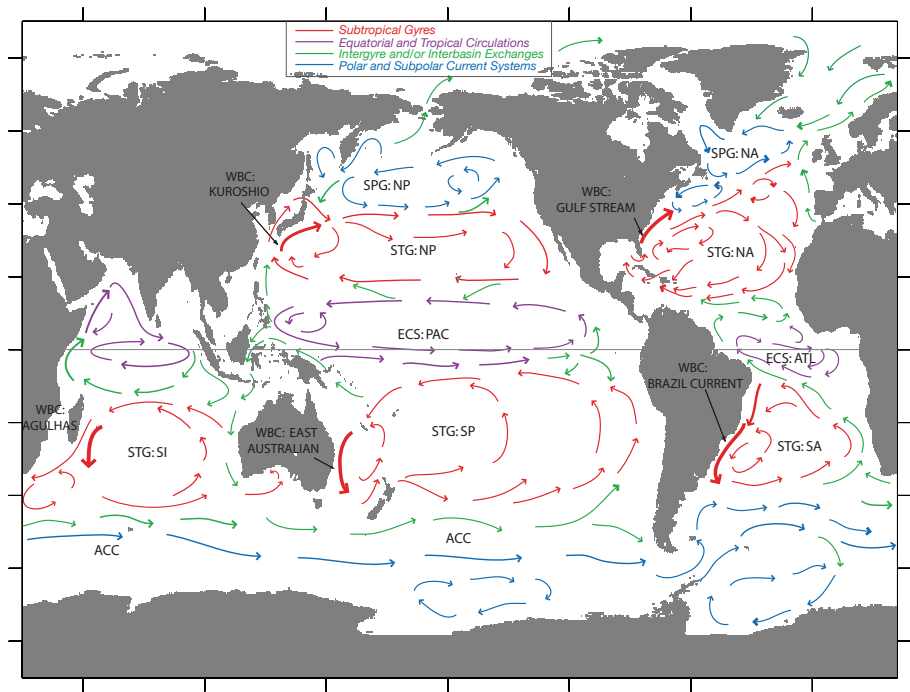


Fig. 19.2

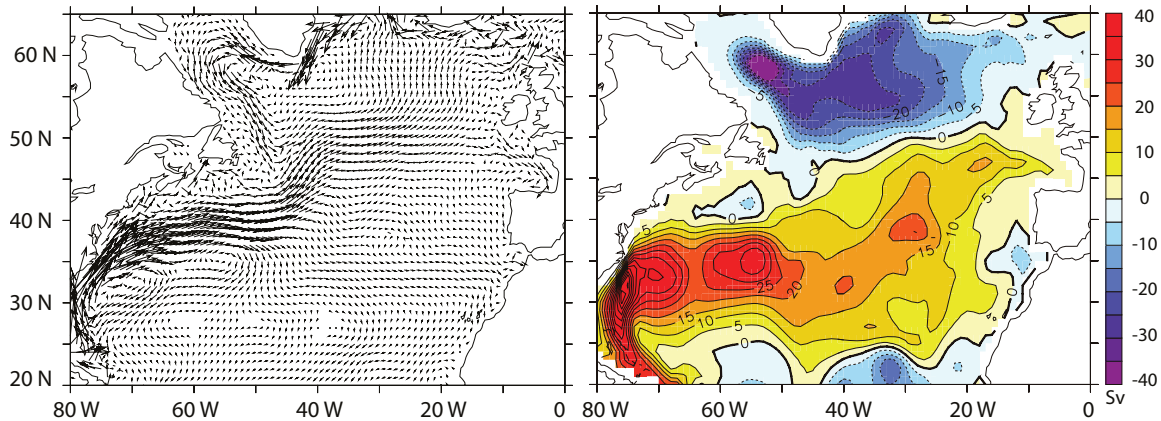


Fig. 19.3

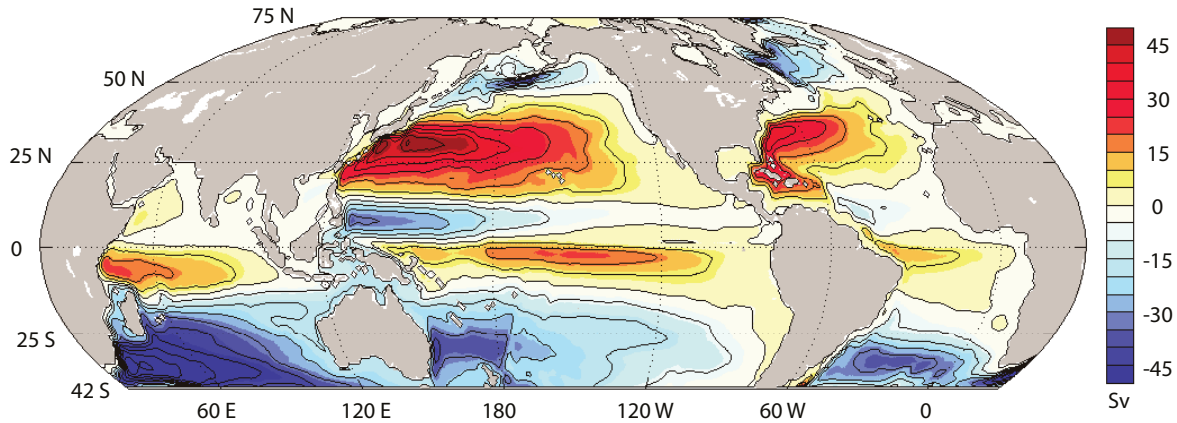
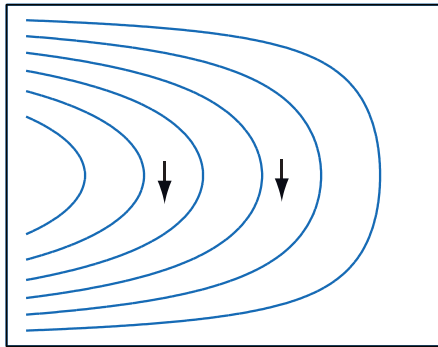
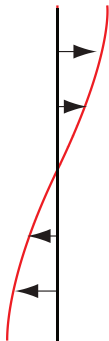


Fig. 19.4

Western boundary layer



Wind stress



Eastern boundary layer

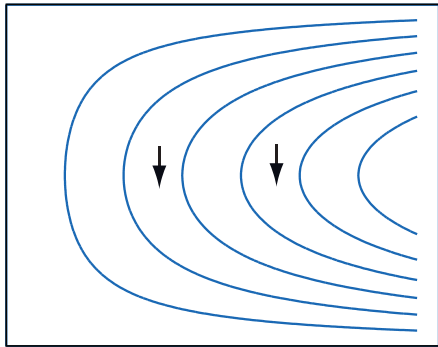
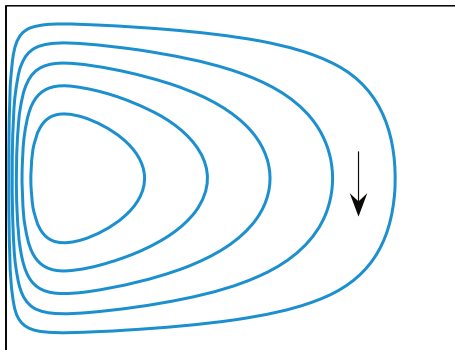


Fig. 19.5

Streamfunction



Wind stress

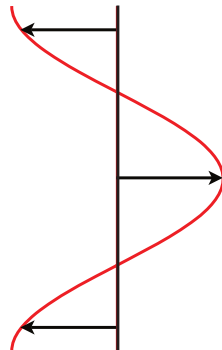
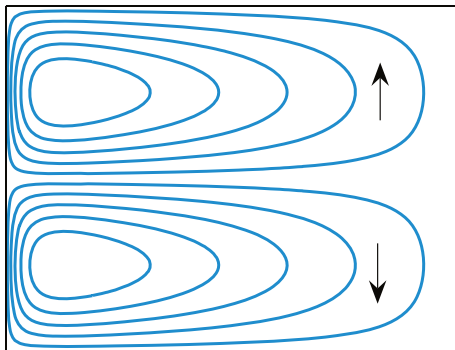
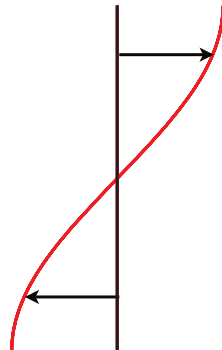


Fig. 19.6

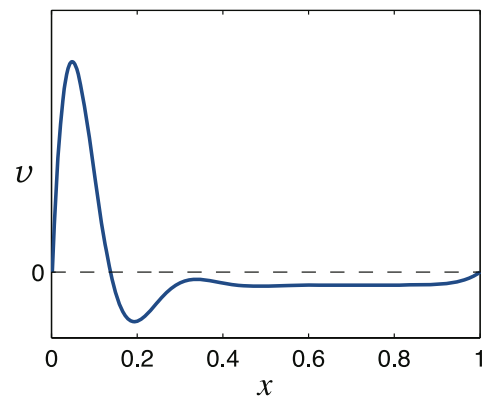
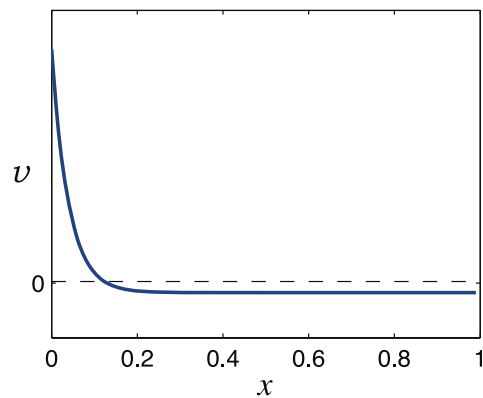
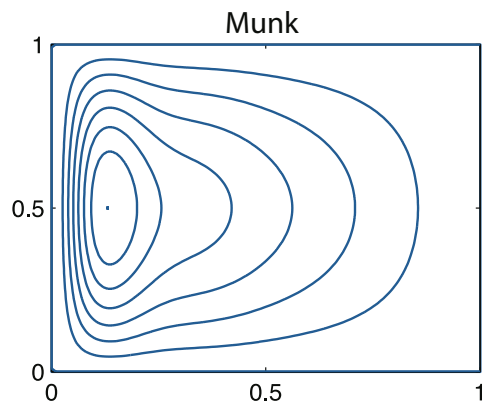
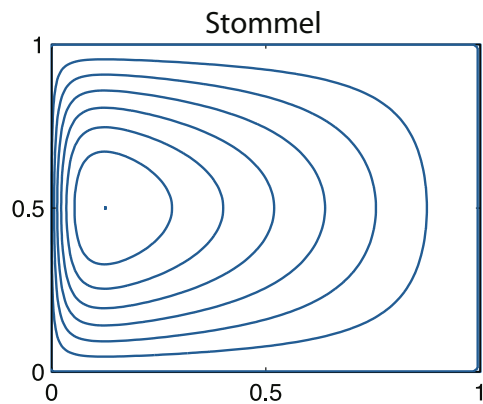


Fig. 19.7

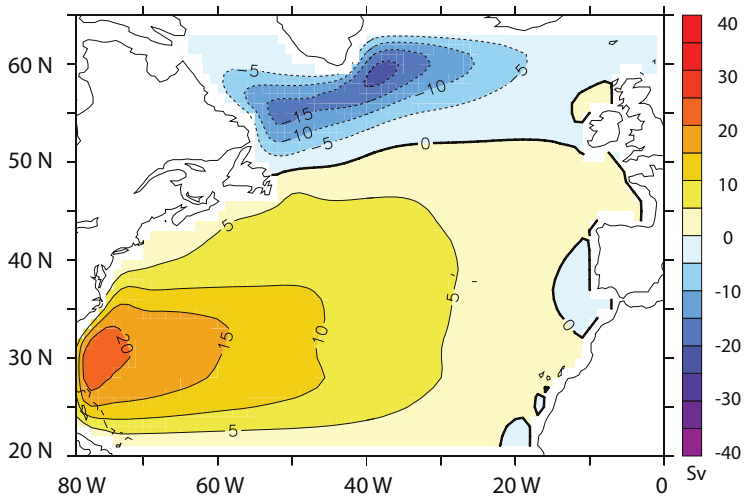


Fig. 19.8

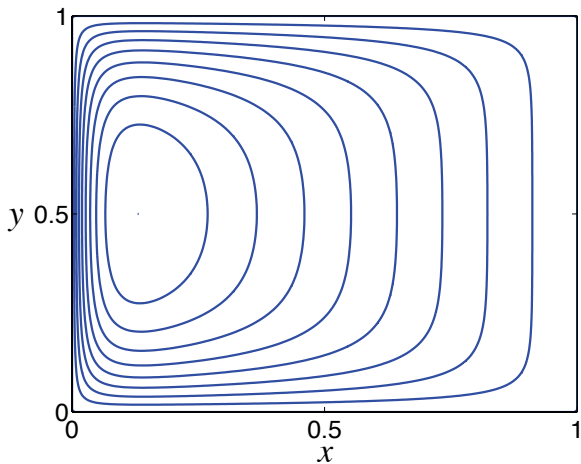


Fig. 19.9

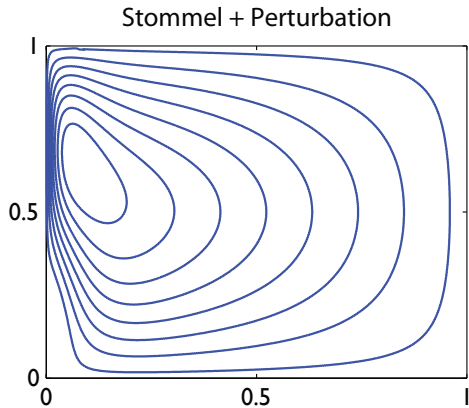
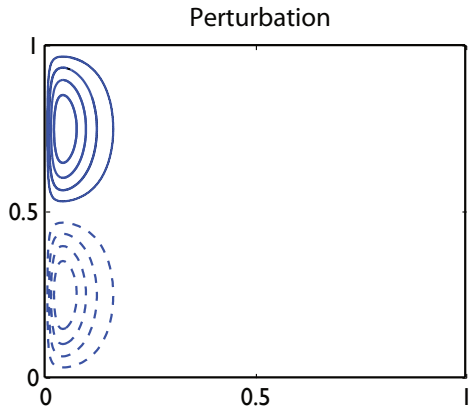


Fig. 19.10

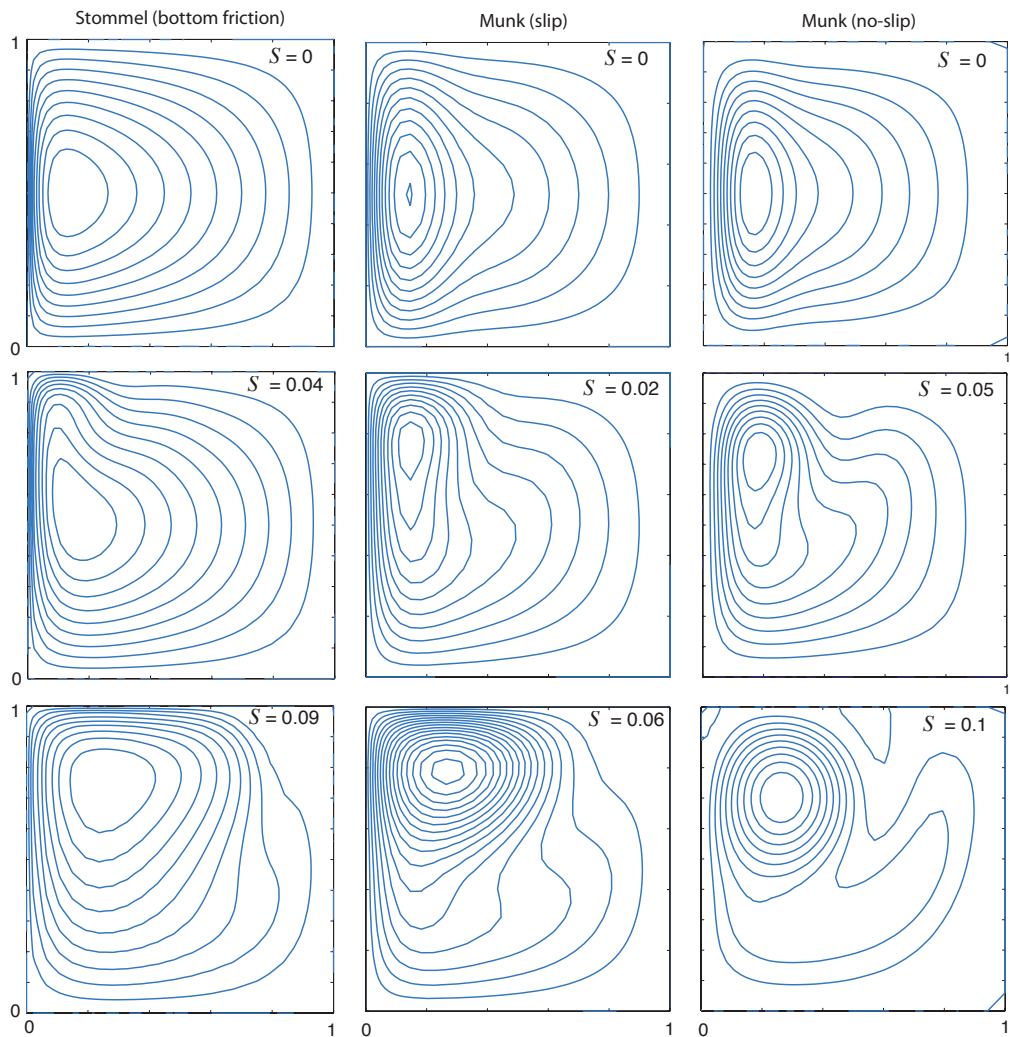


Fig. 19.11

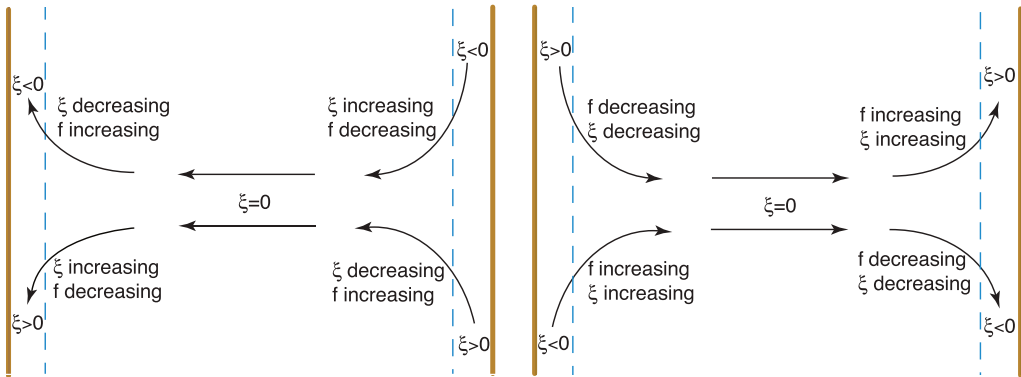


Fig. 19.12

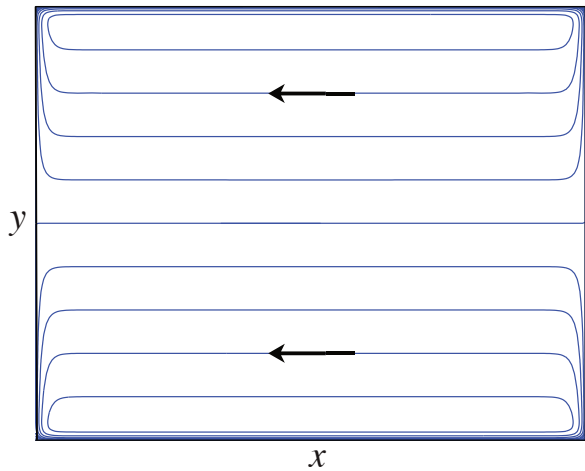


Fig. 19.13

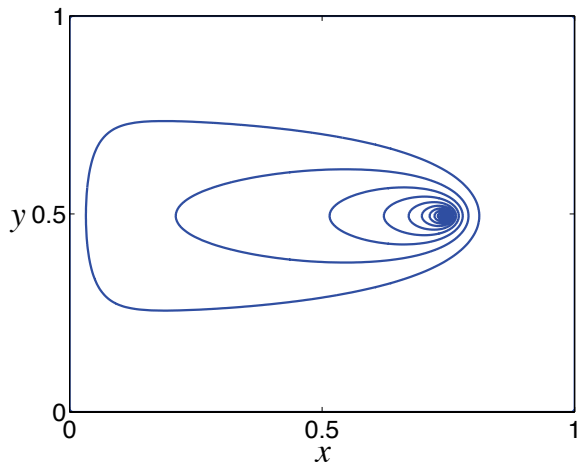


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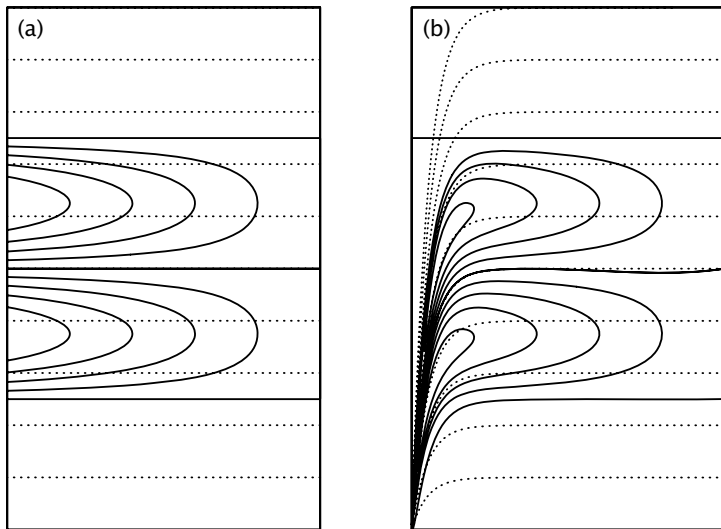


Fig. 19.15

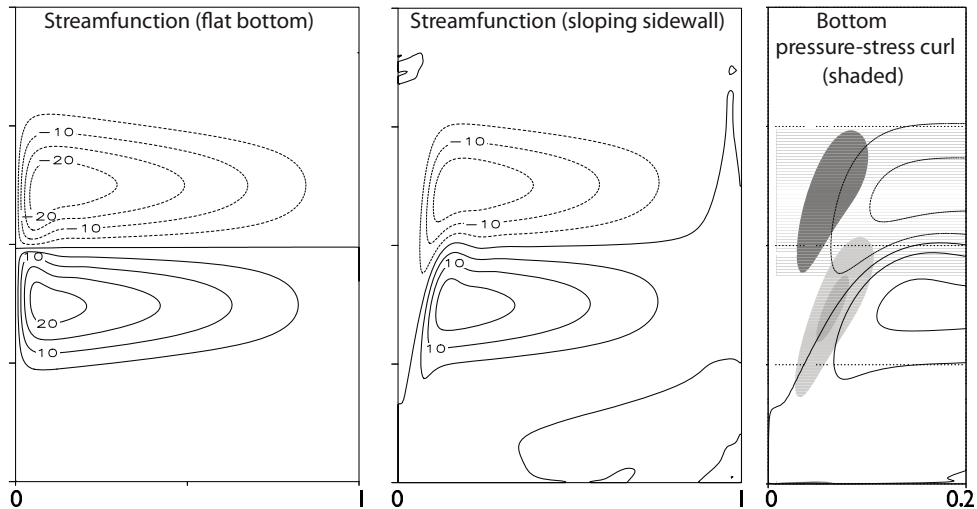


Fig. 19.16

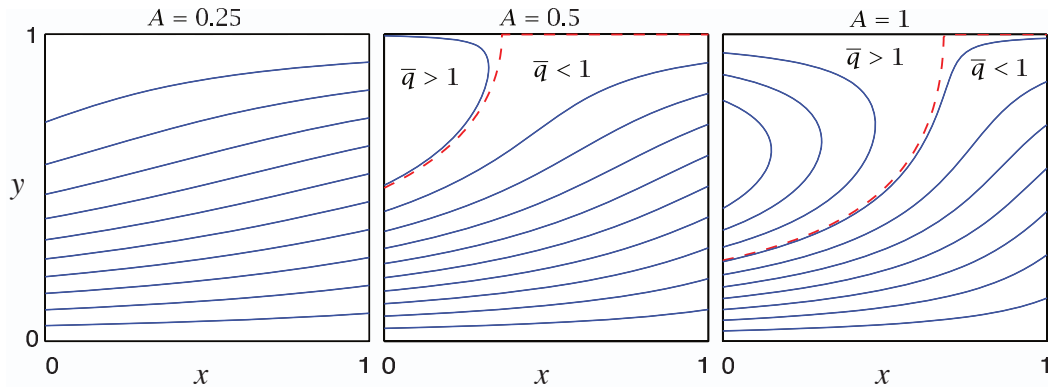


Fig. 20.1

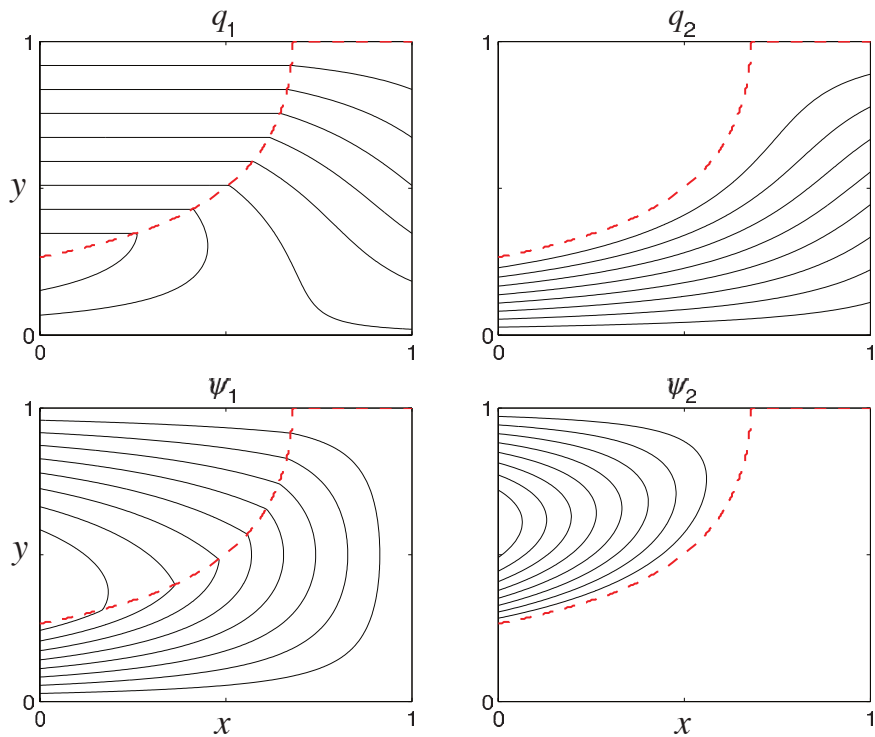
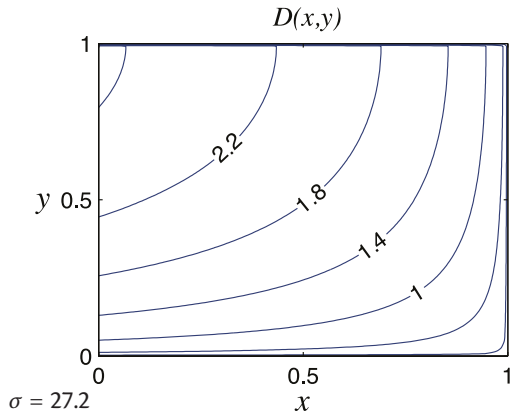


Fig. 20.2

$\sigma = 26.0$



$\sigma = 26.5$

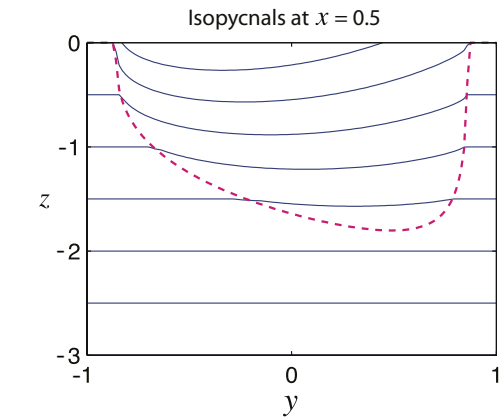
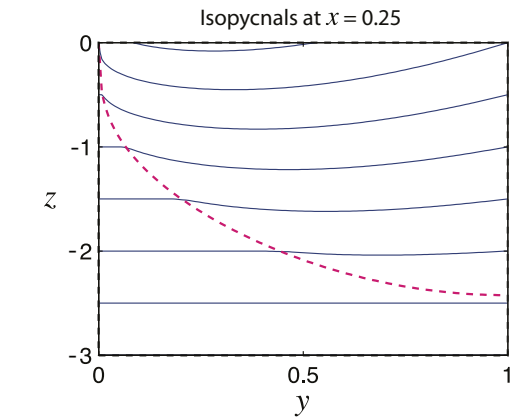
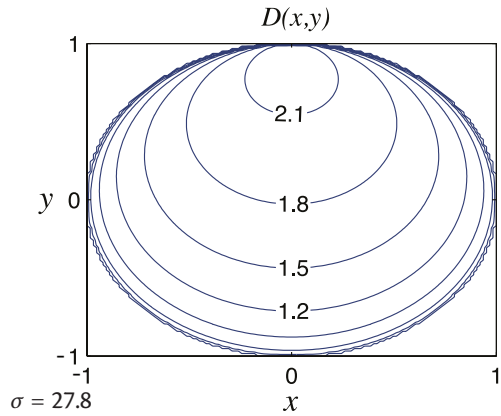
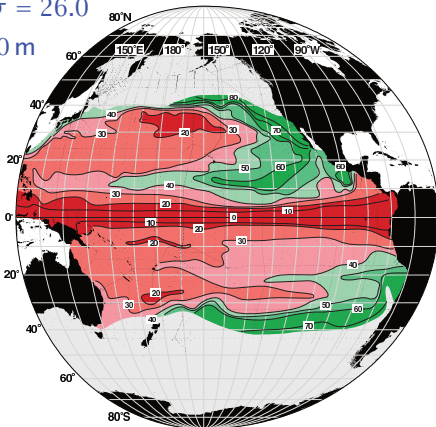


Fig. 20.3

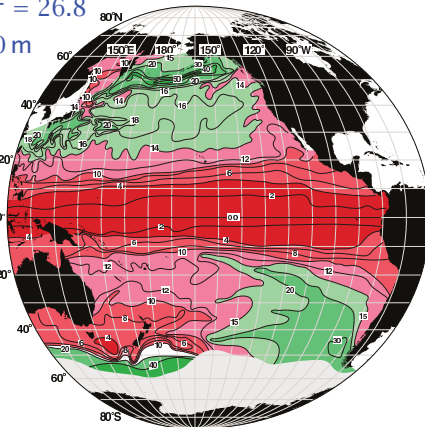
PV on $\sigma = 26.0$

$\bar{D} \approx 200 \text{ m}$



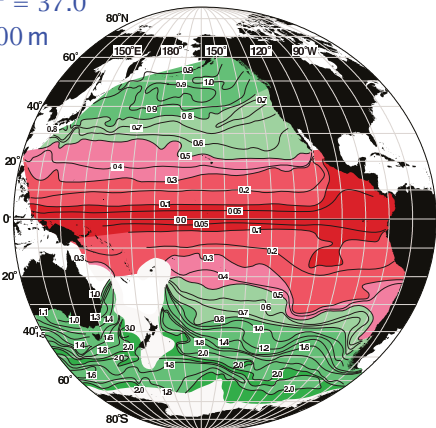
PV on $\sigma = 26.8$

$\bar{D} \approx 400 \text{ m}$



PV on $\sigma = 37.0$

$\bar{D} \approx 2700 \text{ m}$



PV on $\sigma = 26.8$

$\bar{D} \approx 350 \text{ m}$

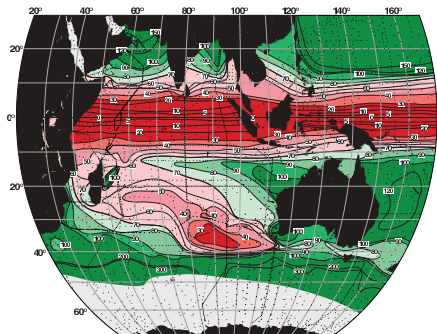
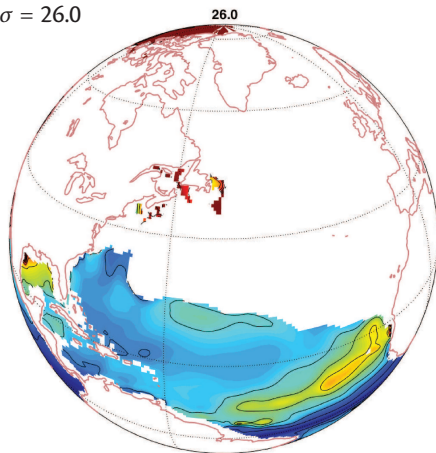
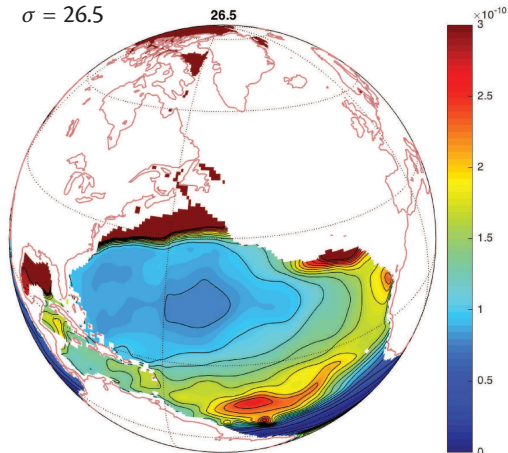


Fig. 20.4

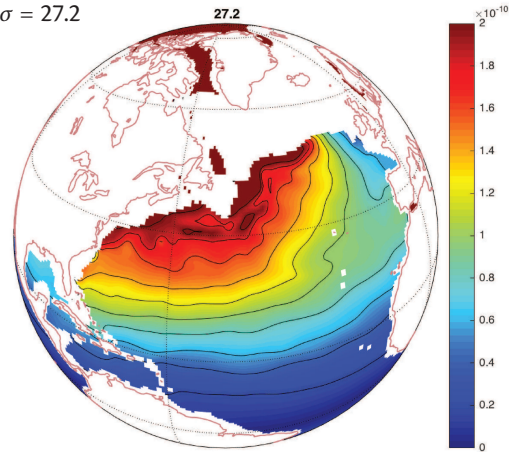
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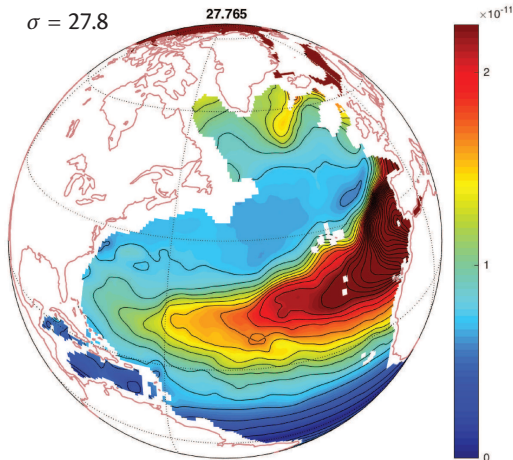


Fig. 20.5

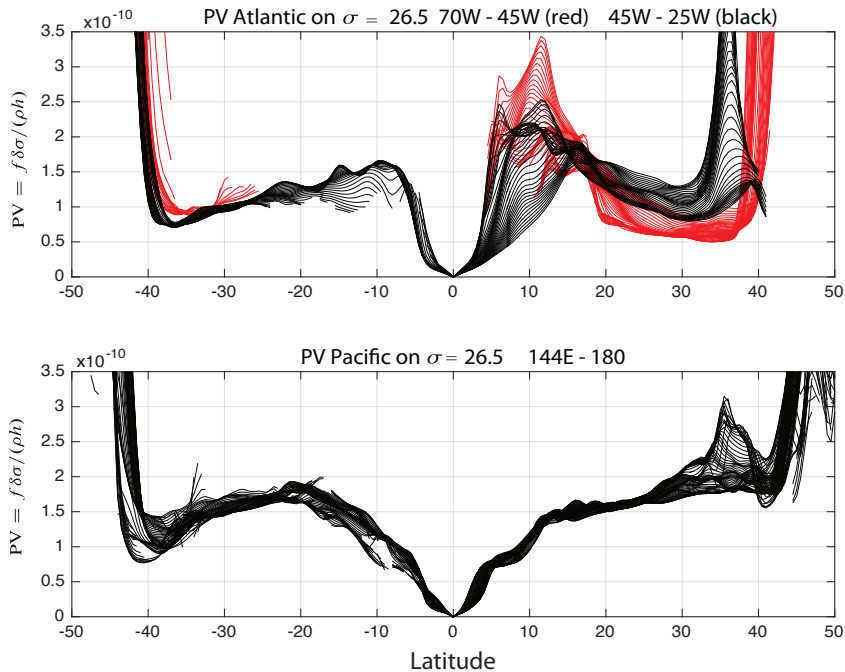


Fig. 20.6

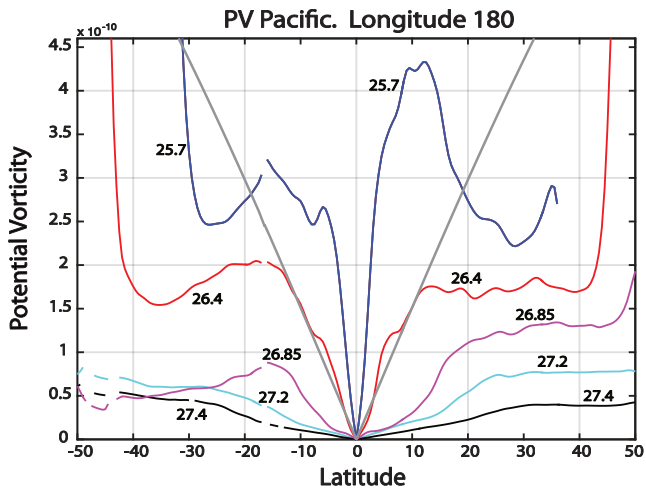


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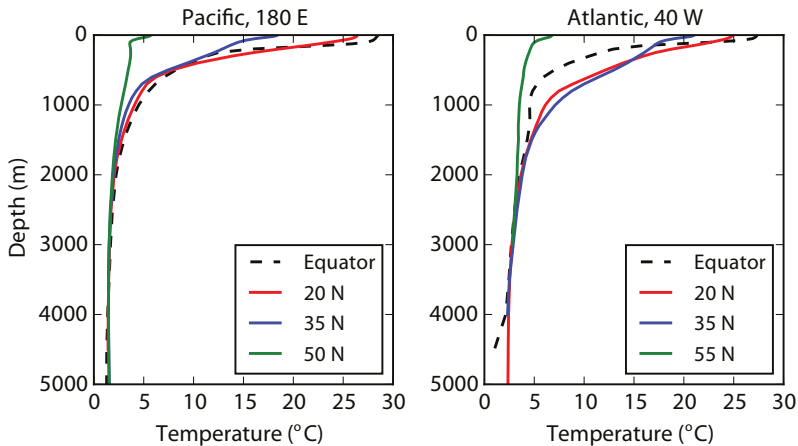


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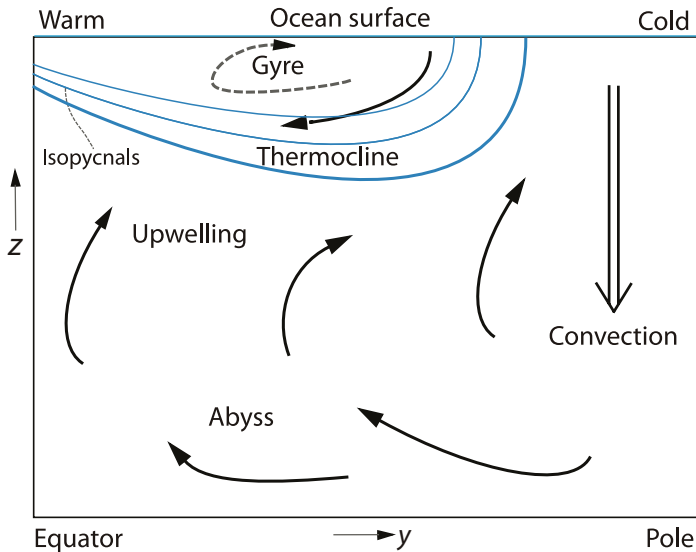


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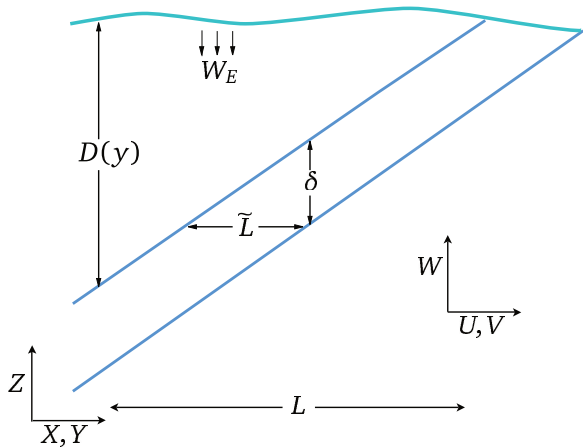


Fig. 20.11

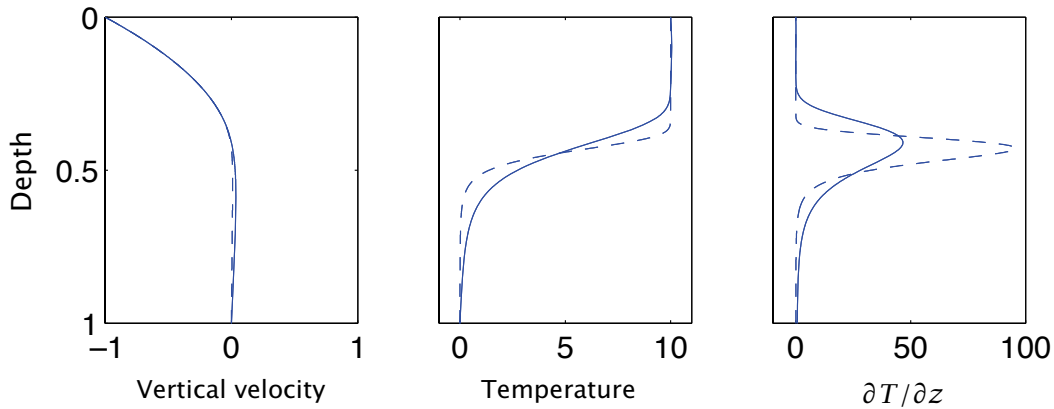


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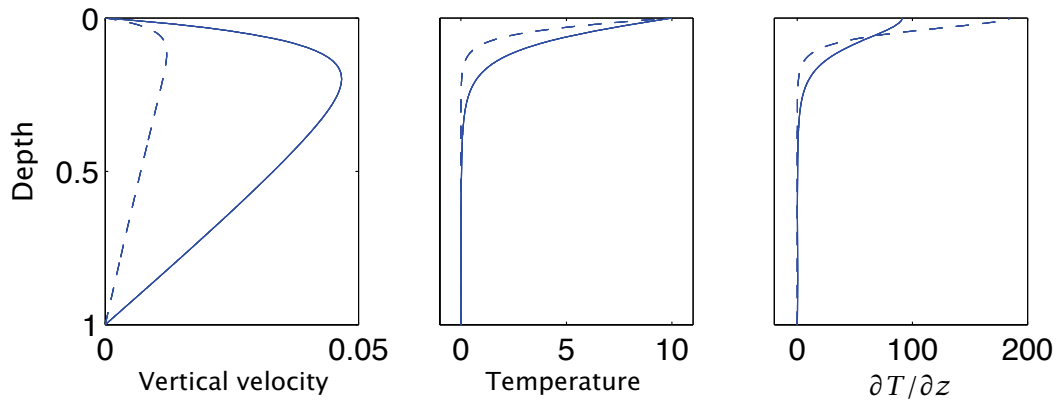


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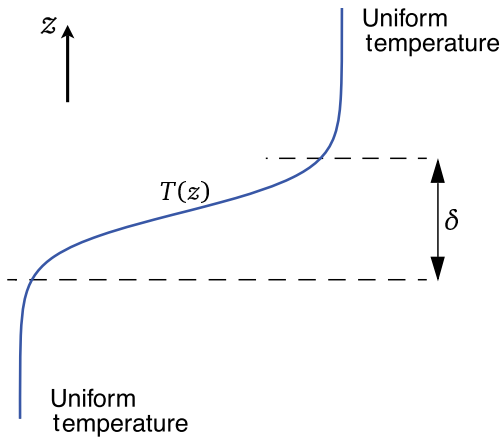
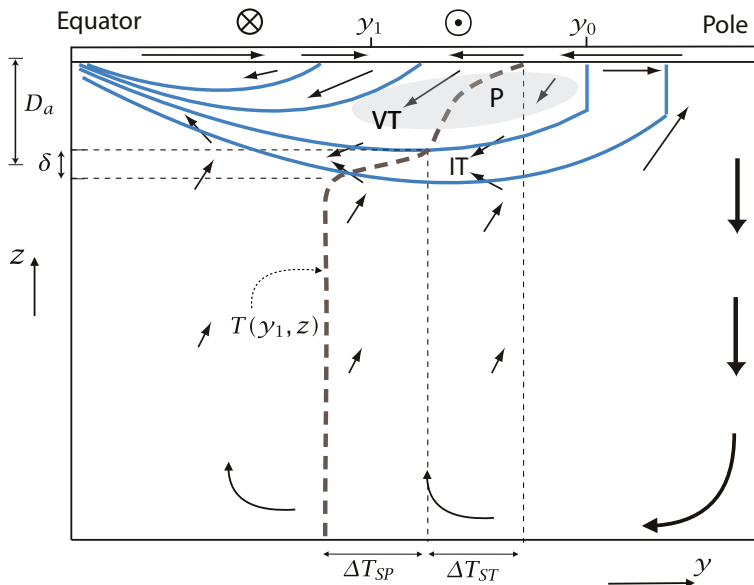


Fig. 20.14



Key: VT – ventilated thermocline. IT – internal thermocline. P – pool region in west. δ – thickness of the internal thermocline. D_a – depth of the ventilated thermocline. ΔT_{ST} – temperature drop across subtropical gyre and across ventilated thermocline. ΔT_{SP} – temperature drop across the subpolar gyre and internal thermocline. y_0 – subtropical-subpolar gyre boundary. y_1 – a latitude in the subtropical gyre.

Fig. 20.15

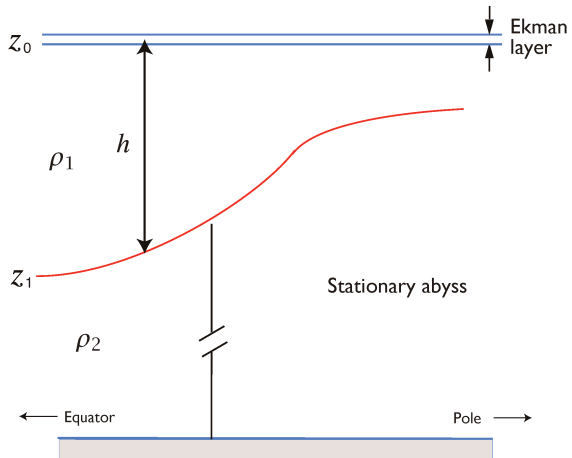


Fig. 20.16

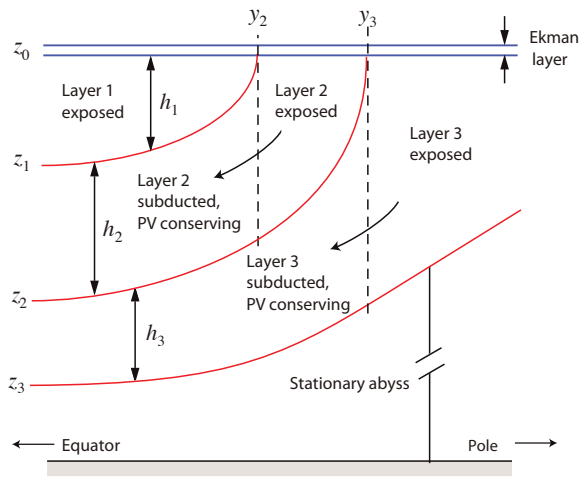
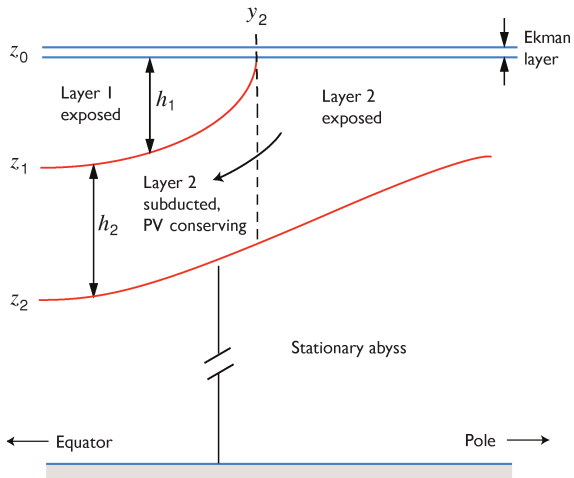


Fig. 20.17

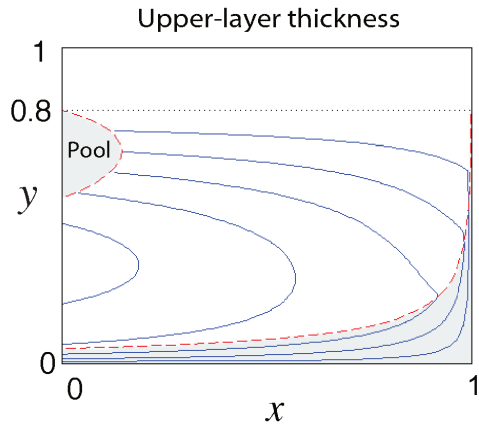
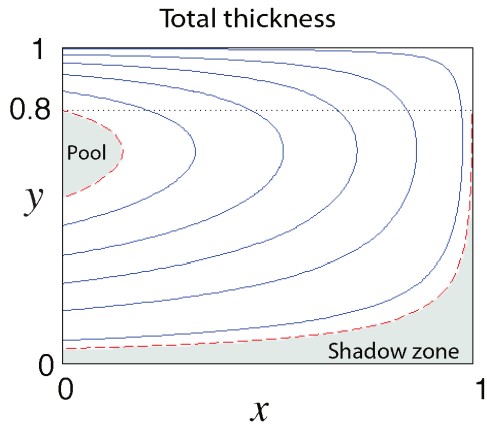


Fig. 20.18

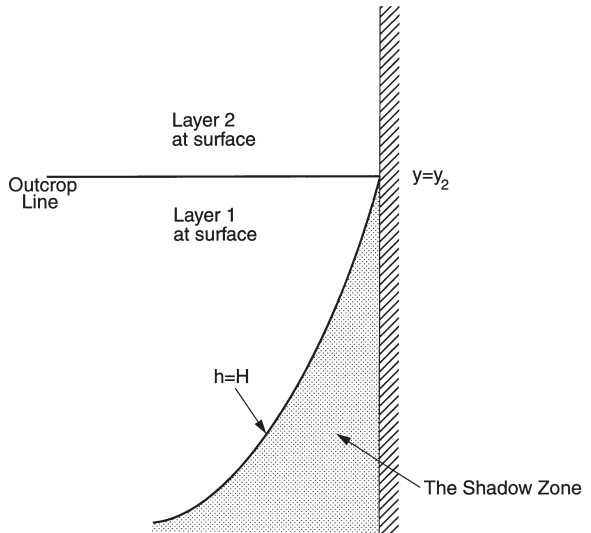


Fig. 20.19

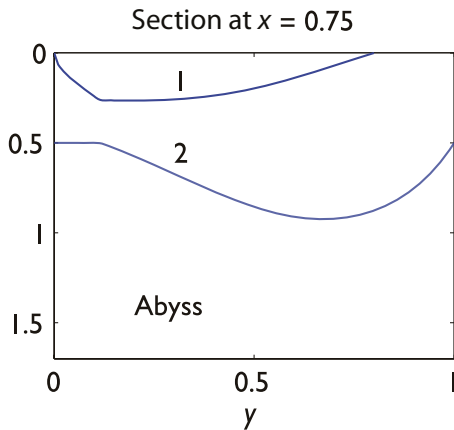
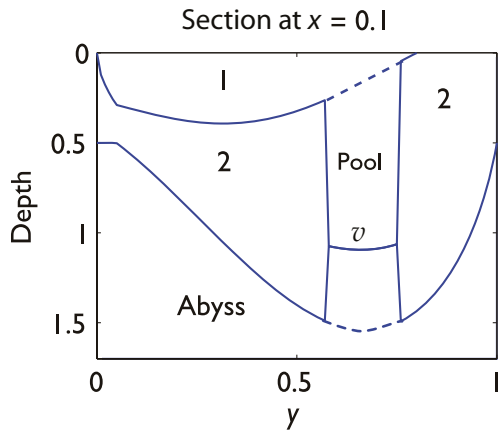


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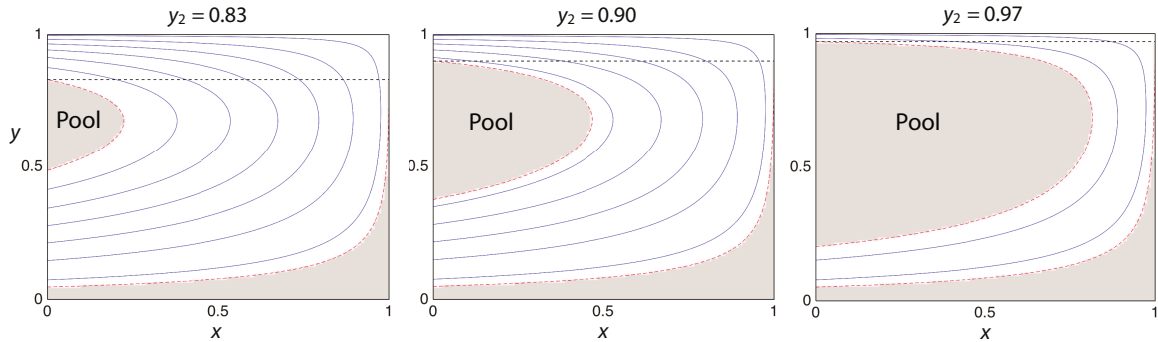


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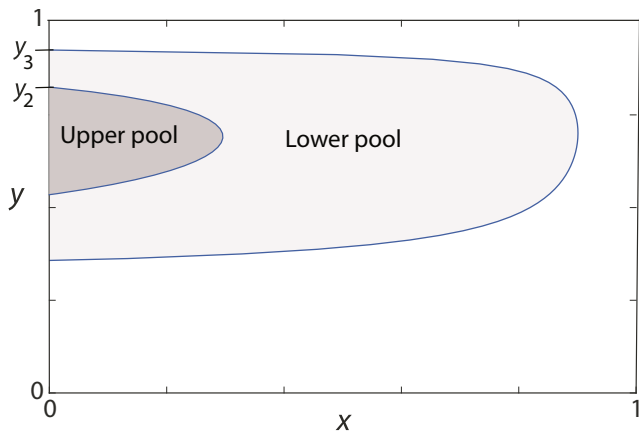


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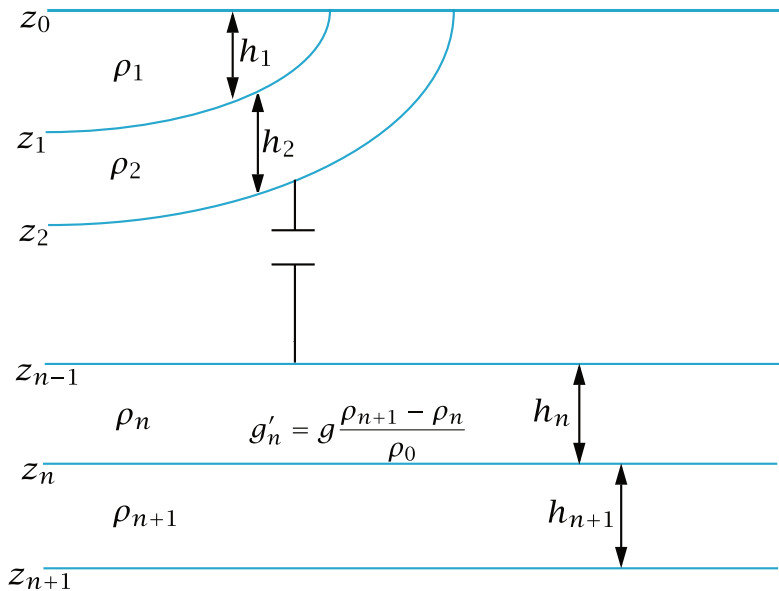


Fig. 20.23

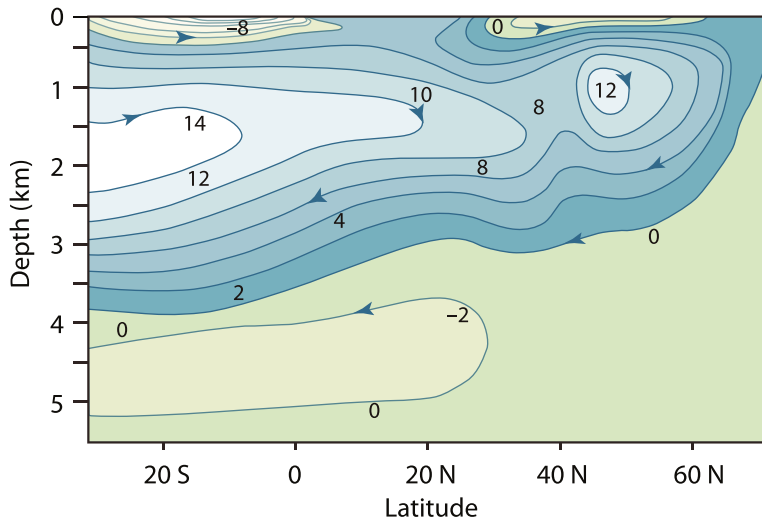


Fig. 21.1

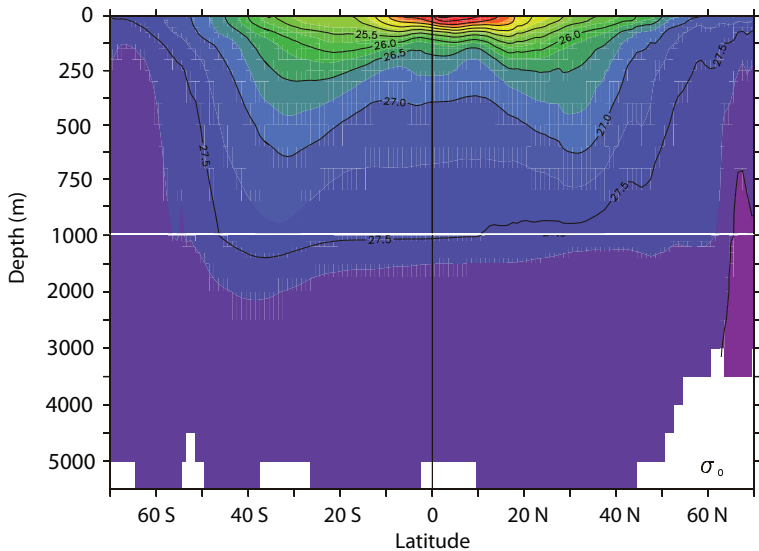


Fig. 21.2

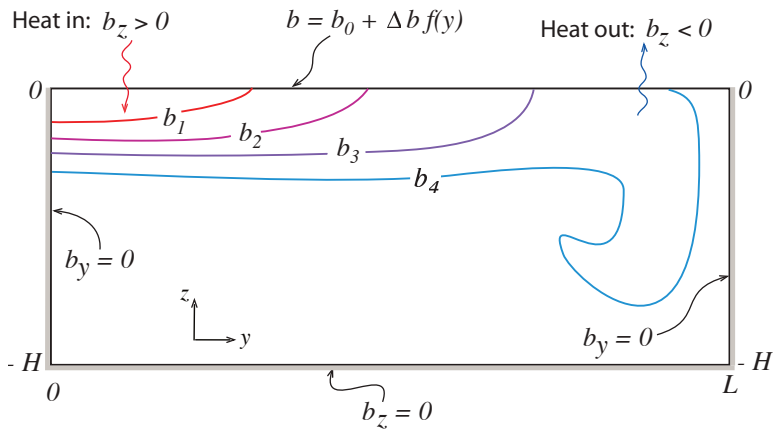


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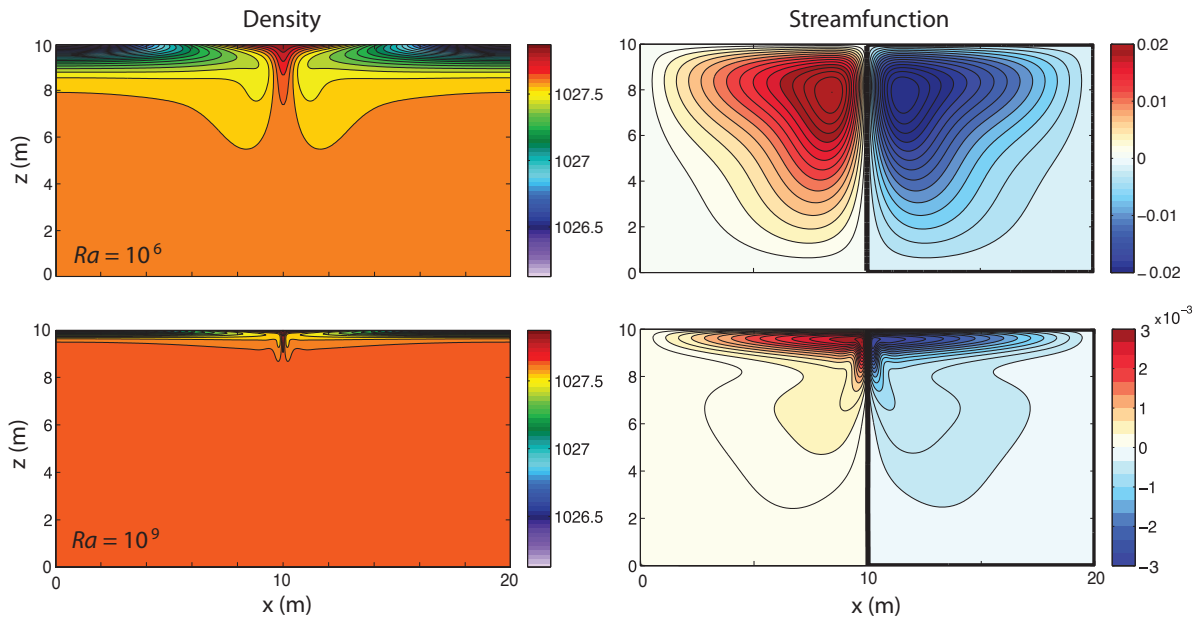


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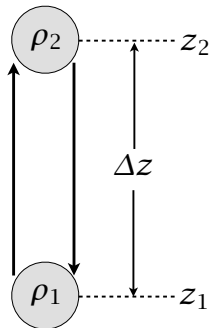


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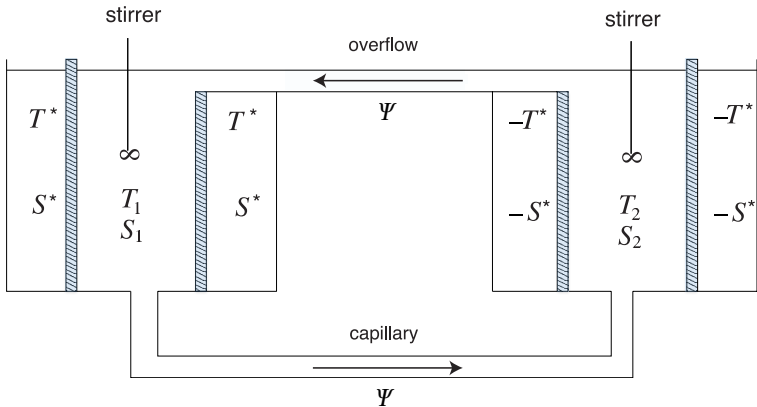


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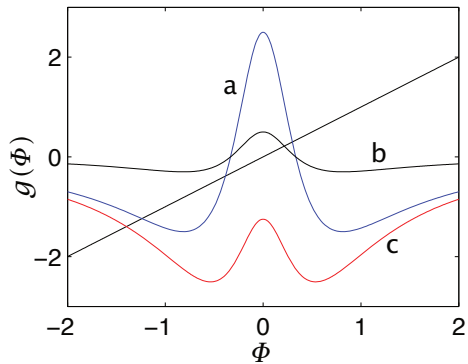
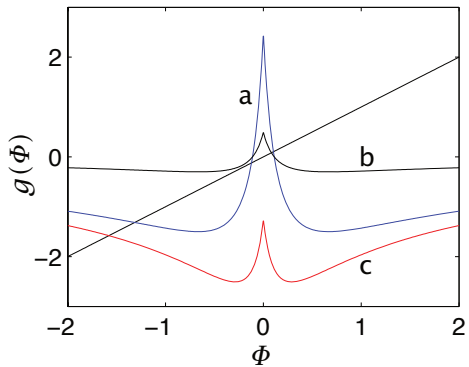


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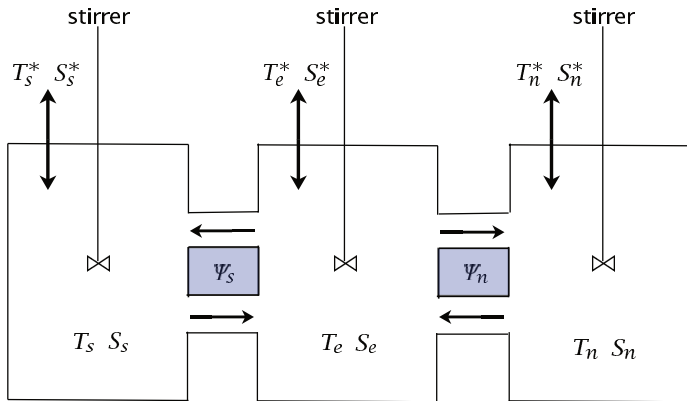


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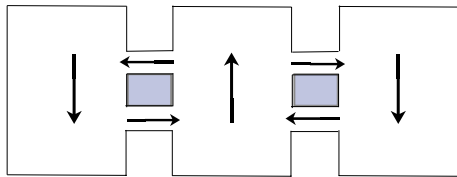
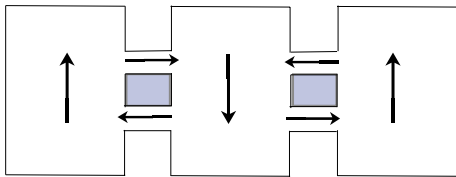
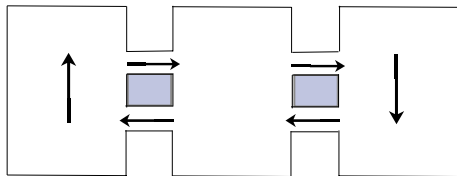
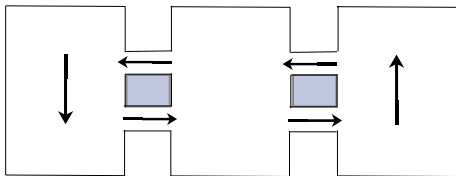


Fig. 21.9

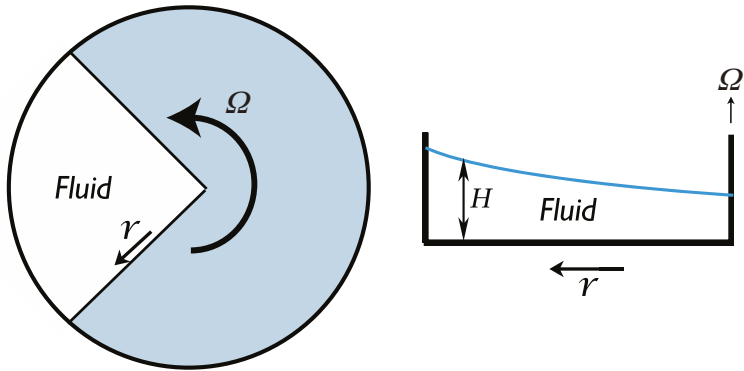


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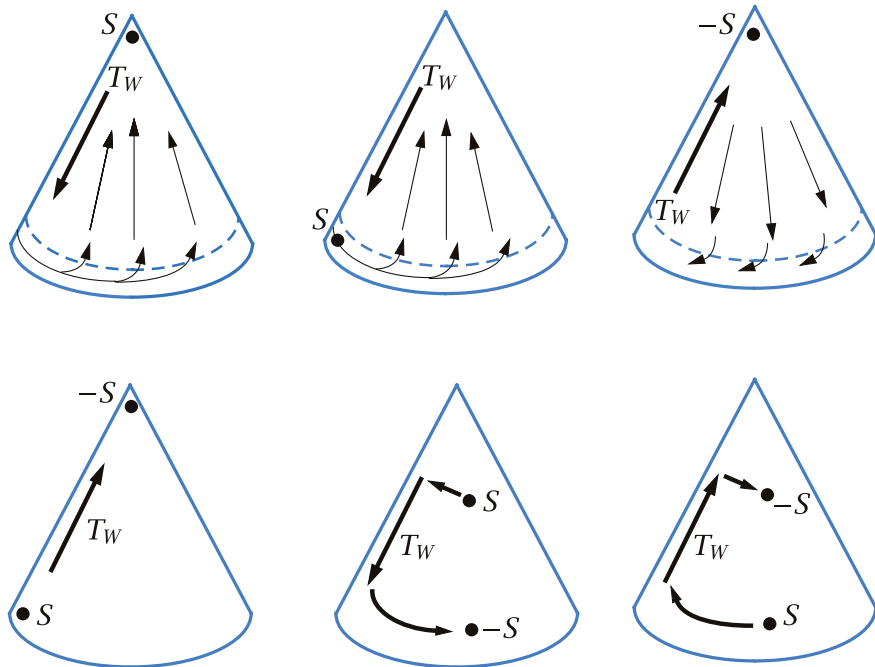


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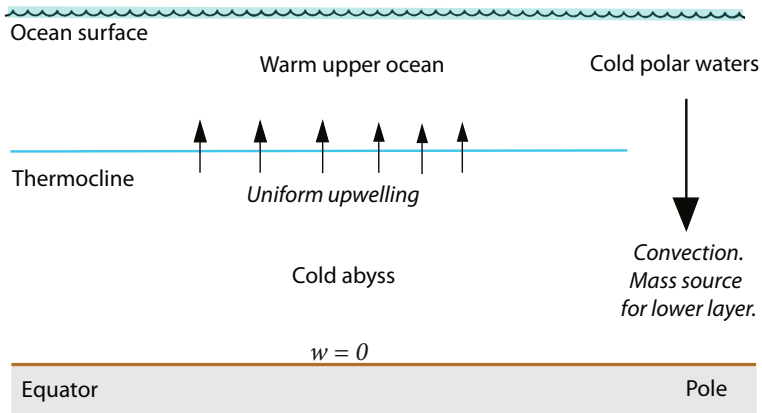


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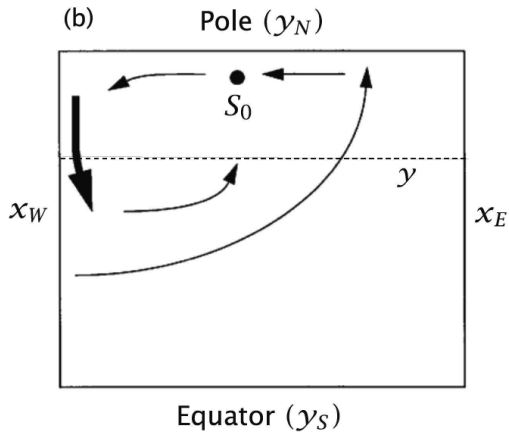
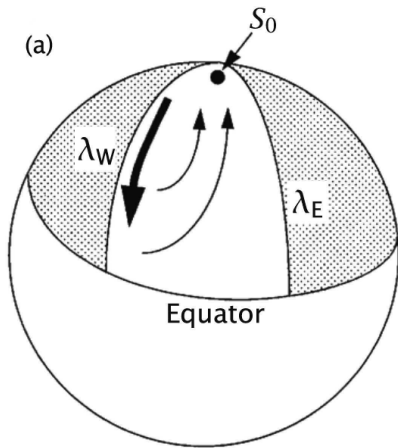


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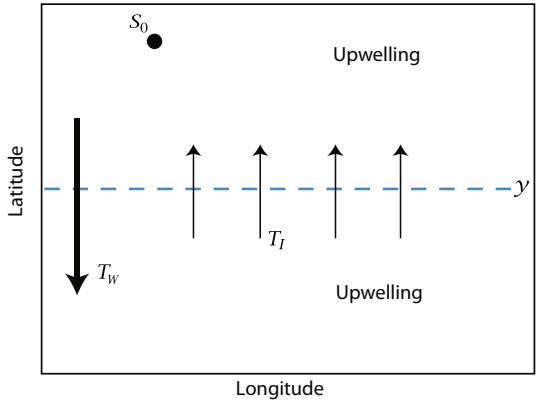


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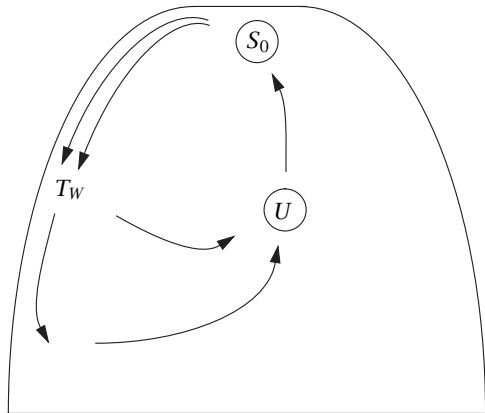


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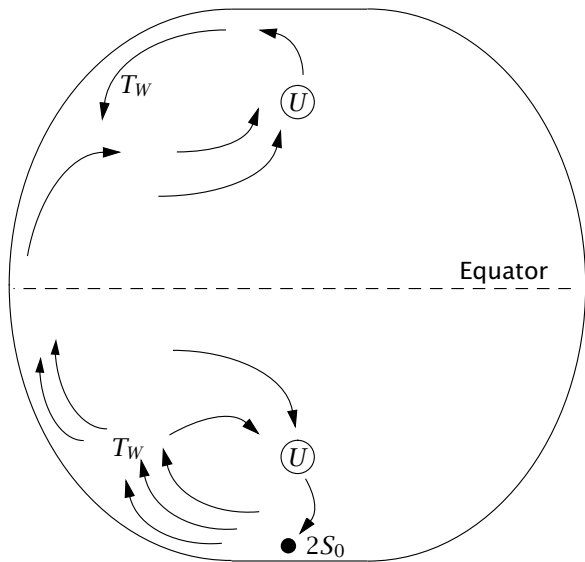


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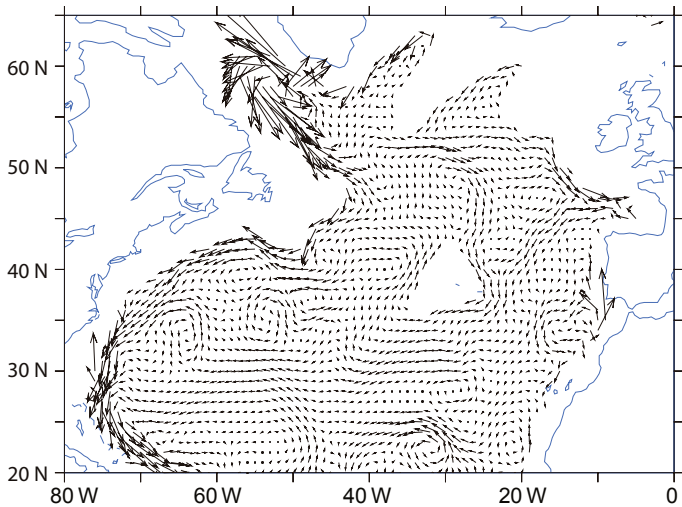


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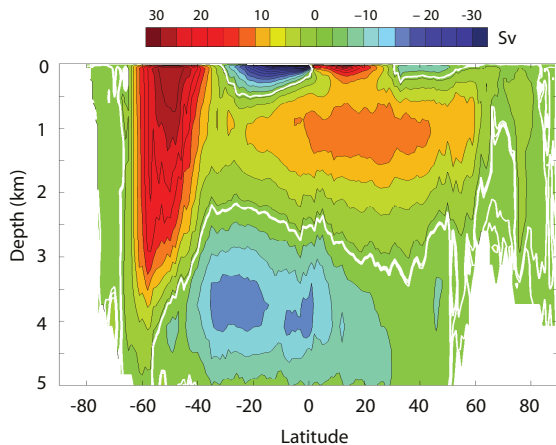
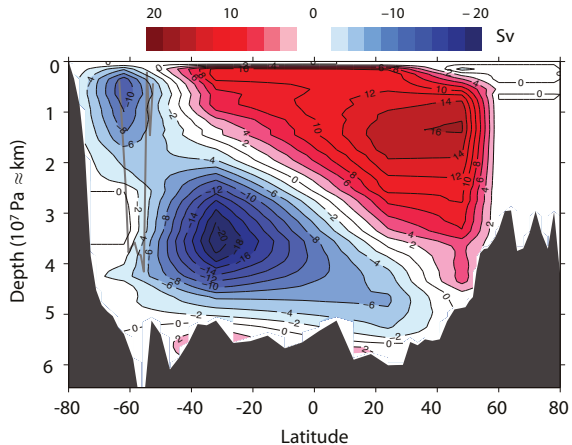


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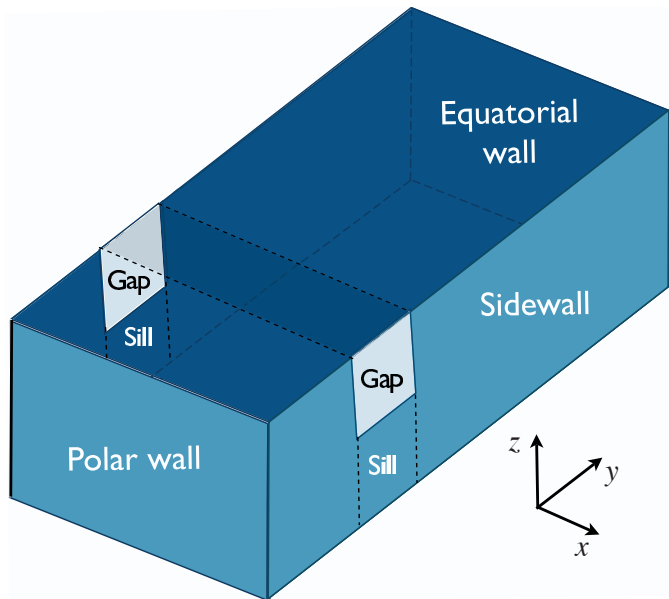


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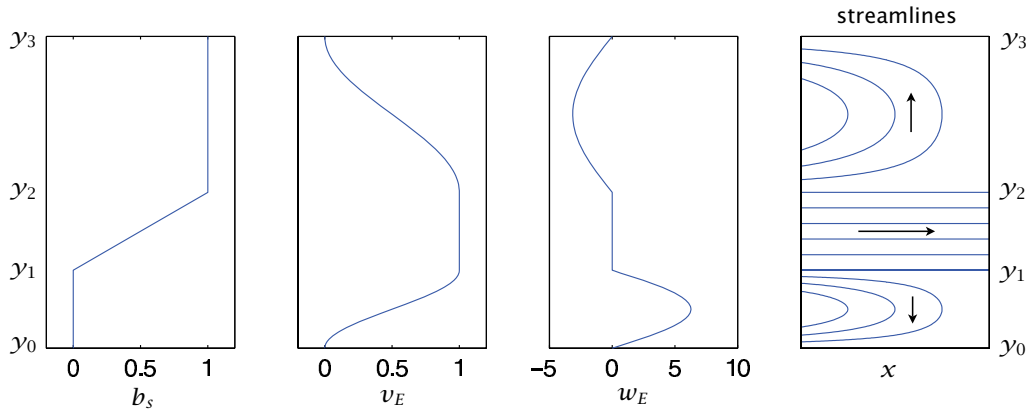


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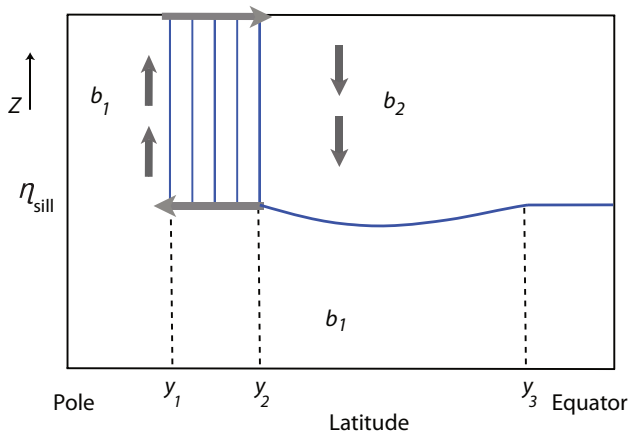


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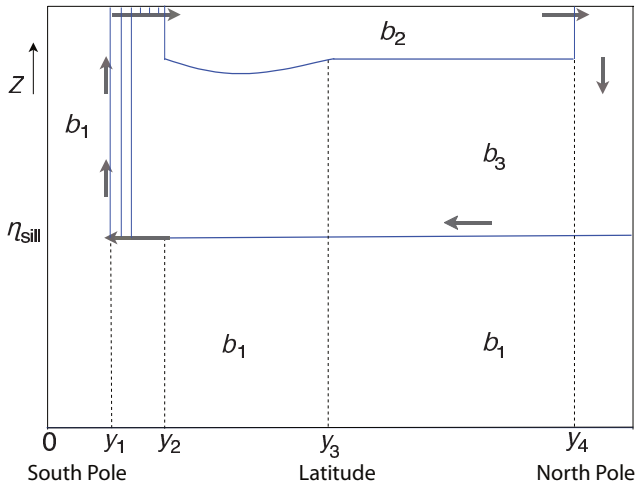


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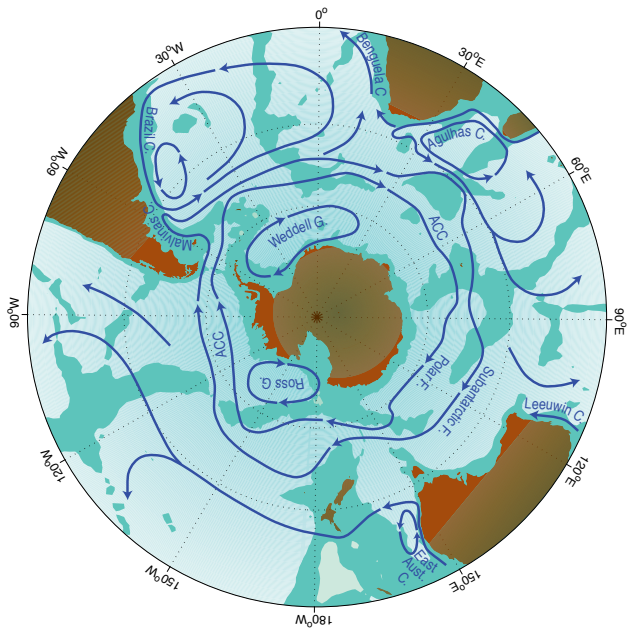


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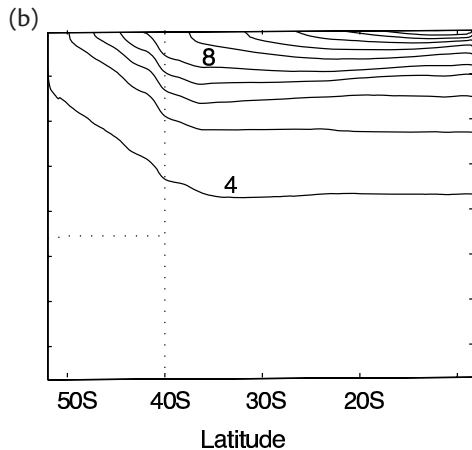
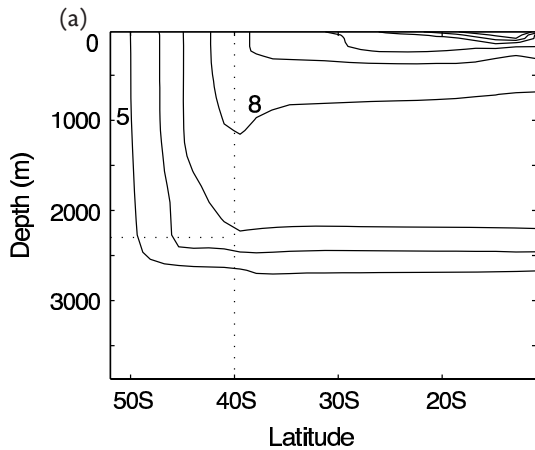


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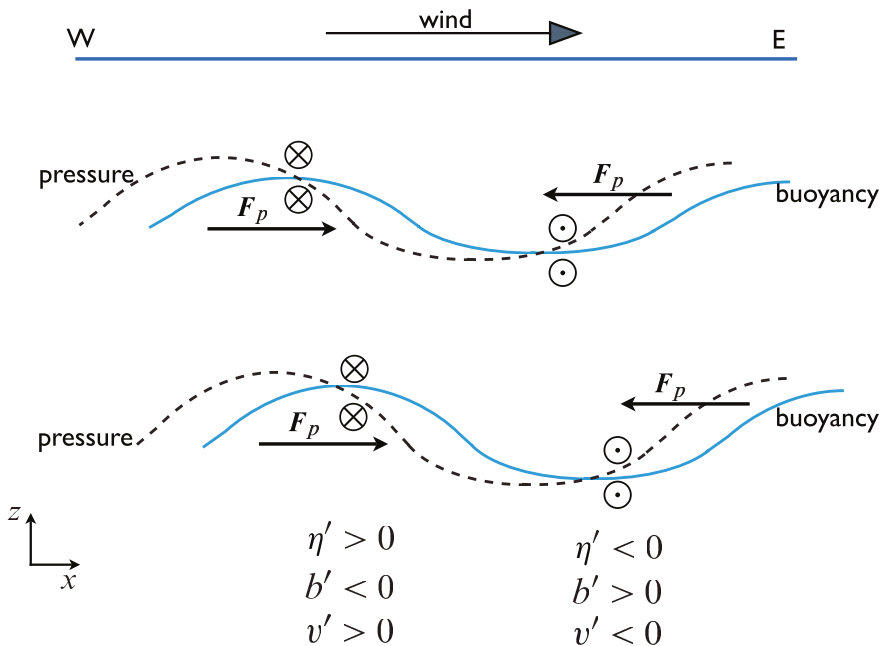


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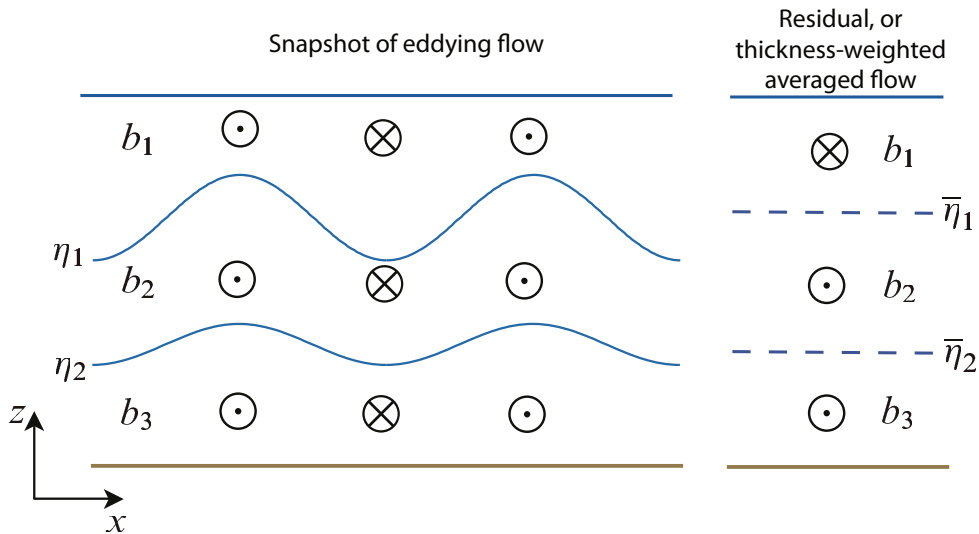


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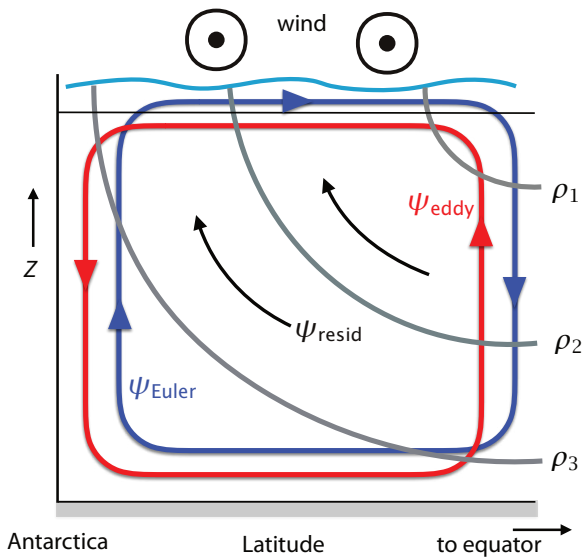


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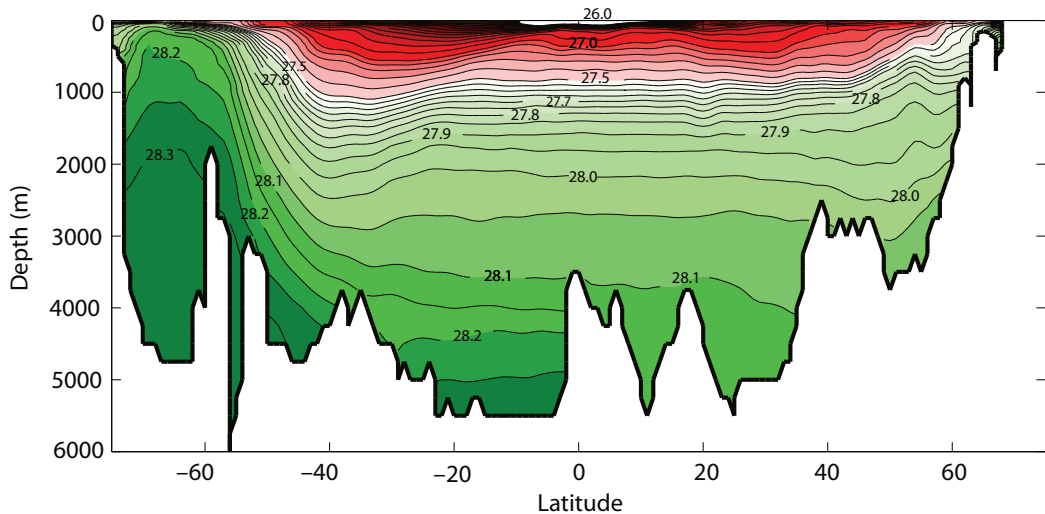


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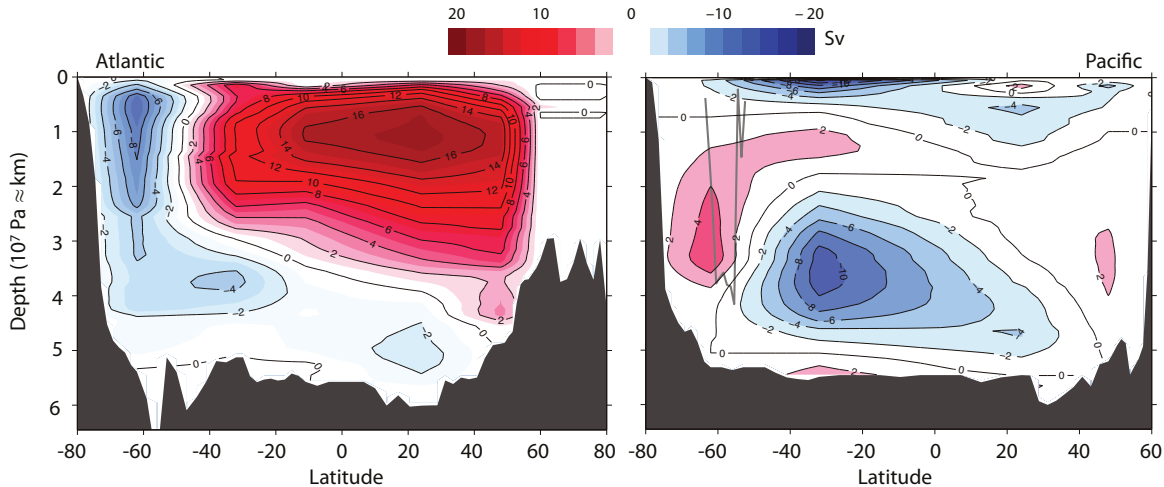


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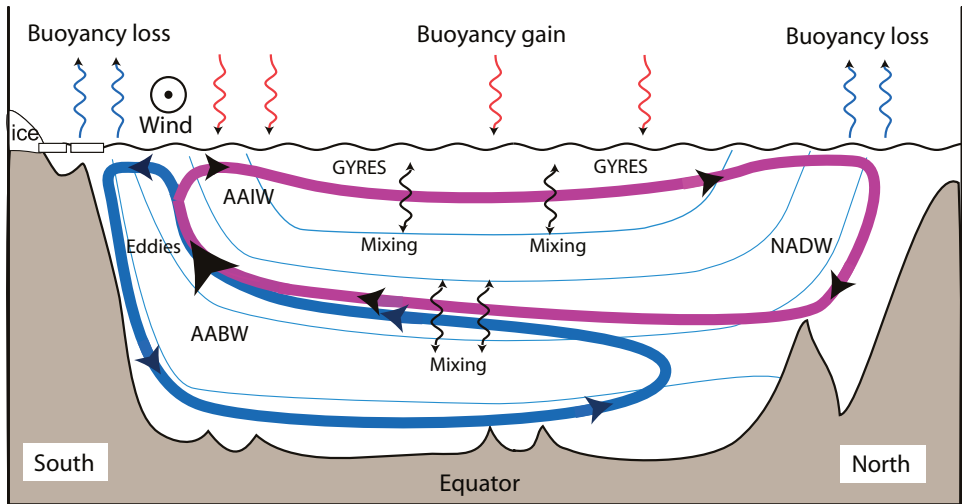


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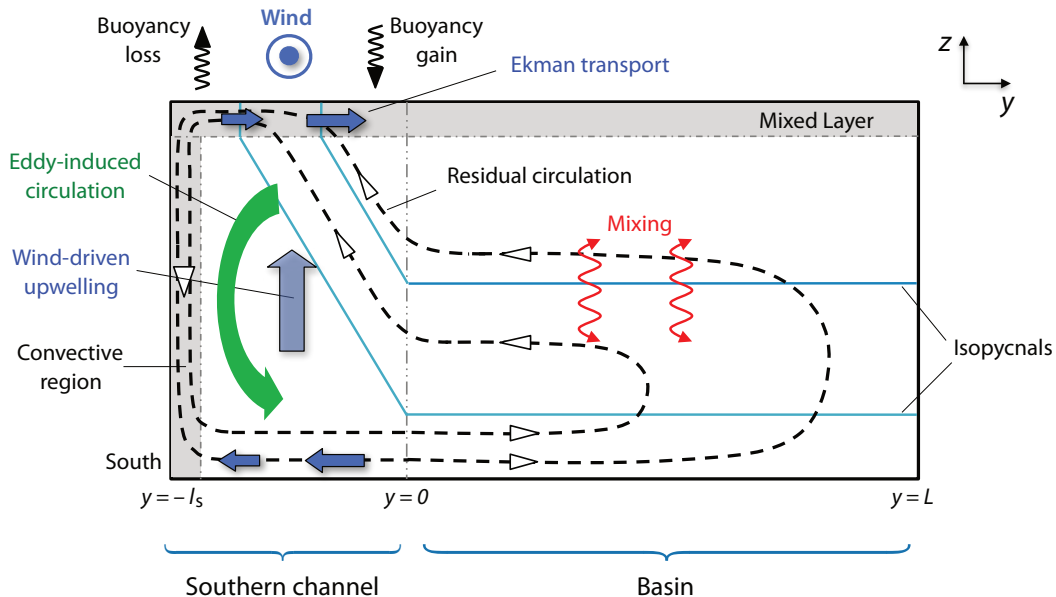


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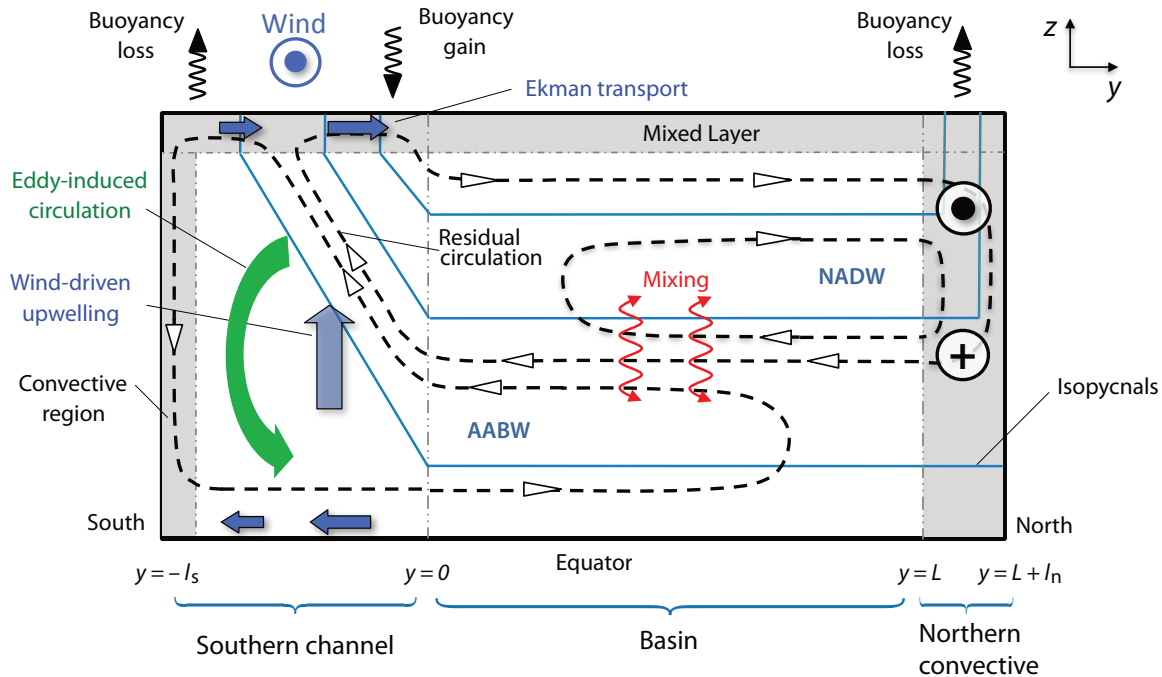


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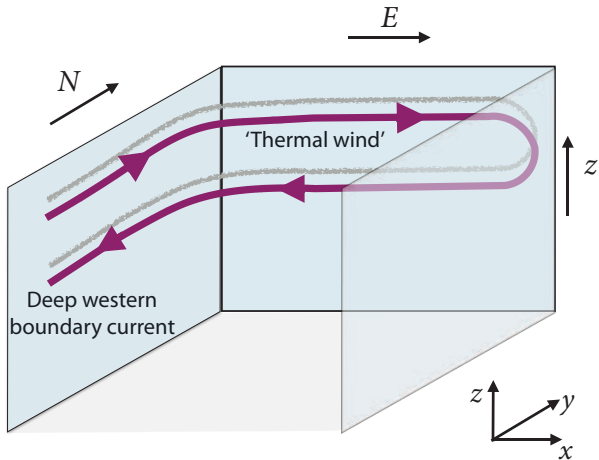


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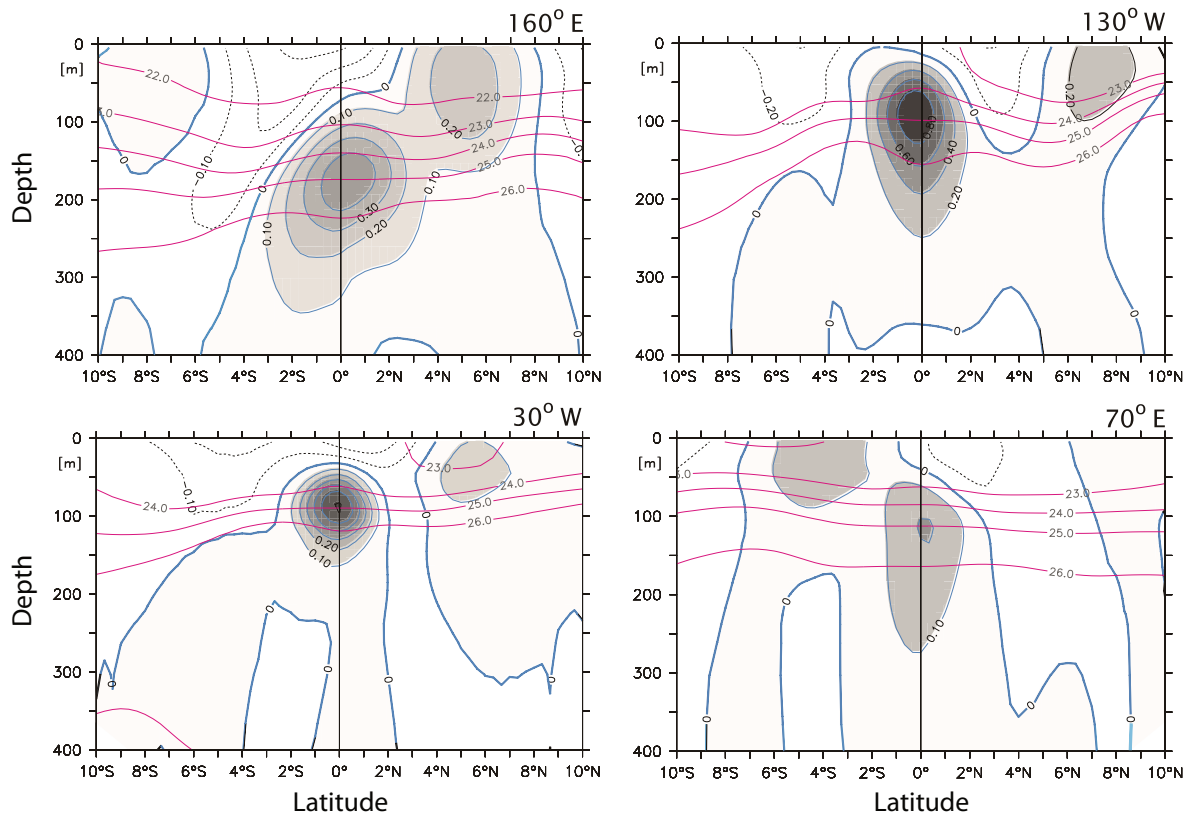


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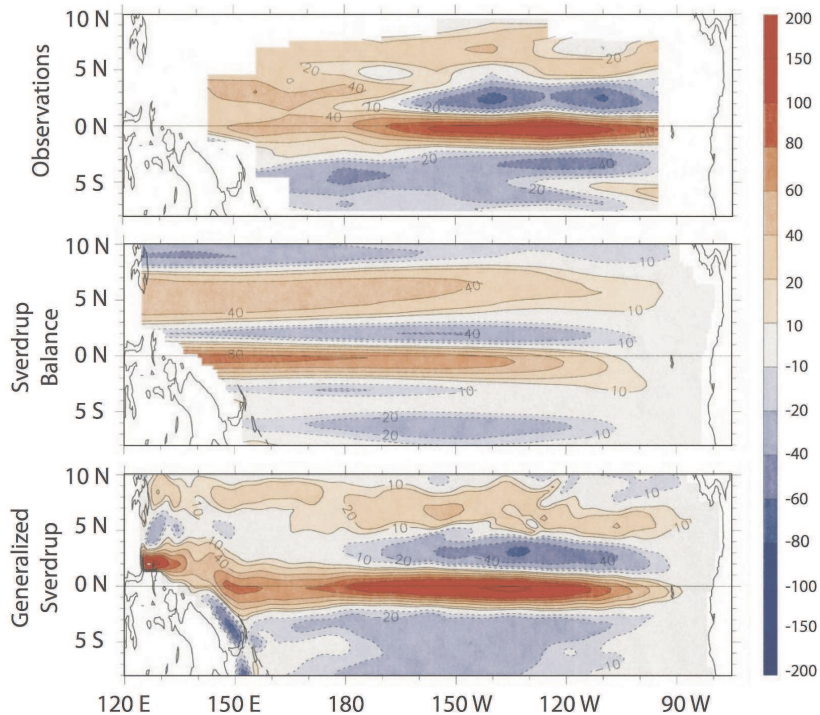


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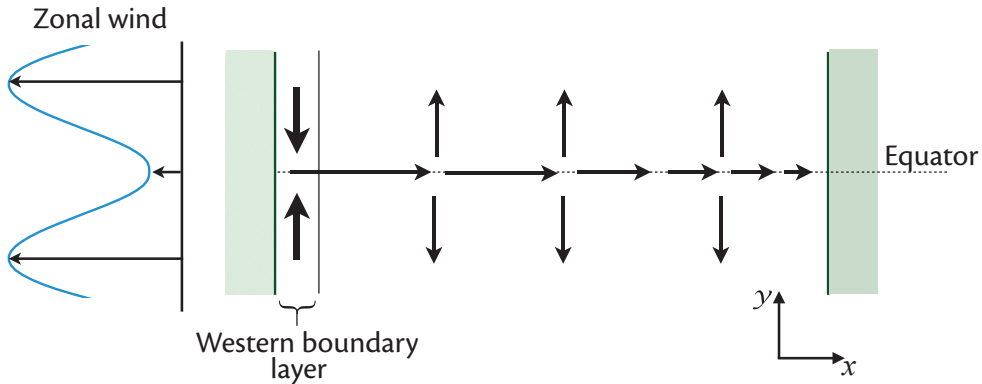


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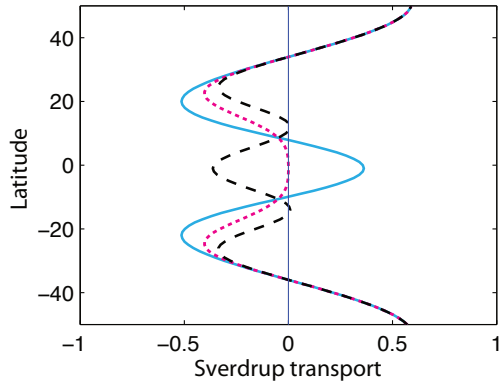
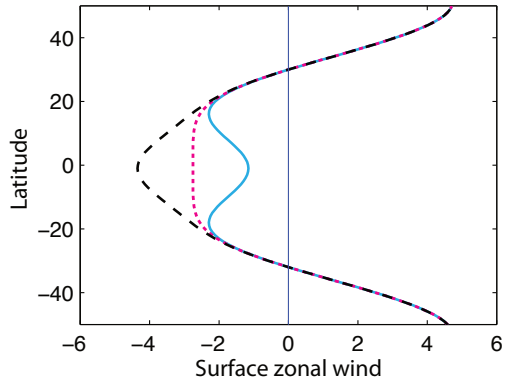


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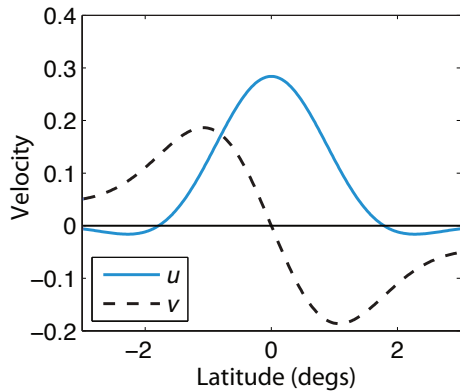
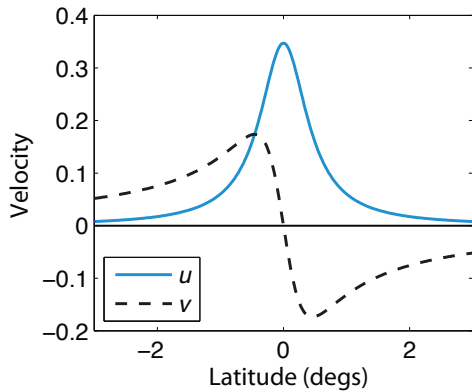


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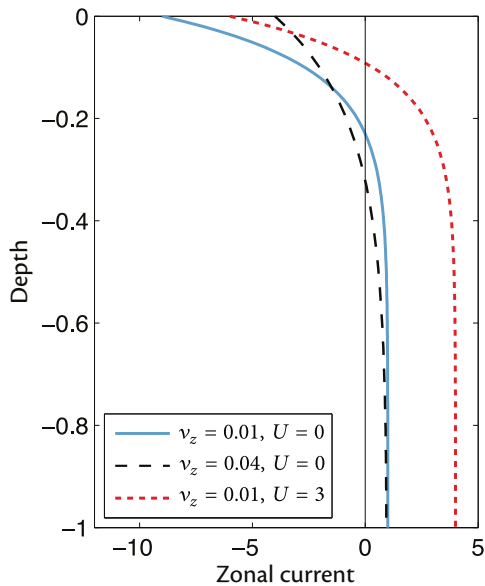


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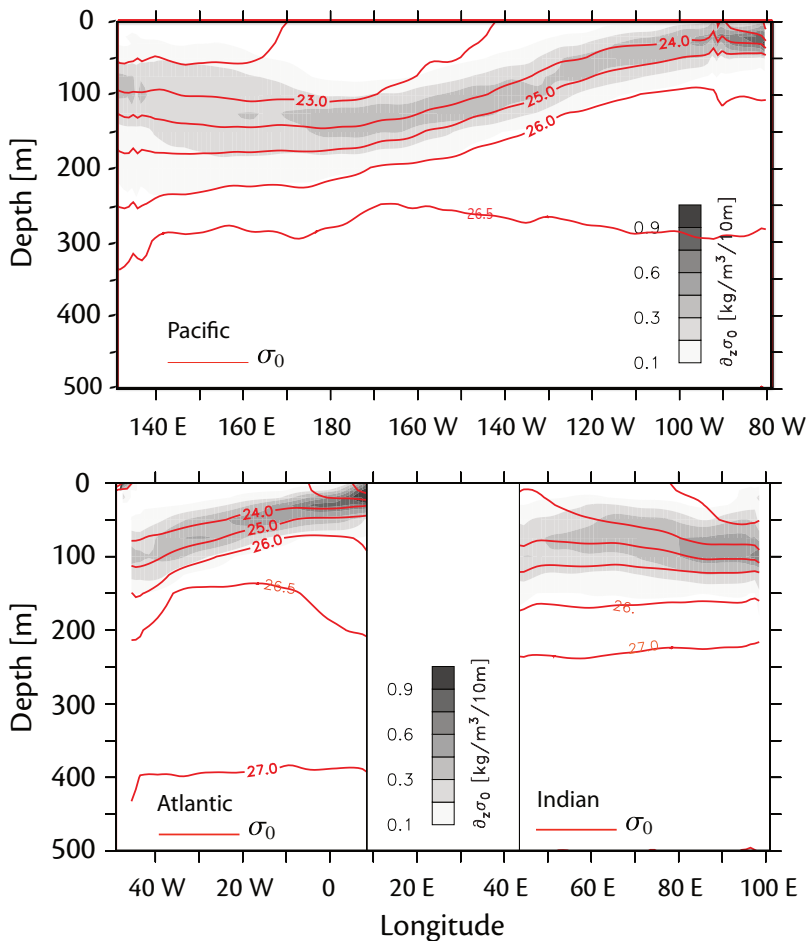


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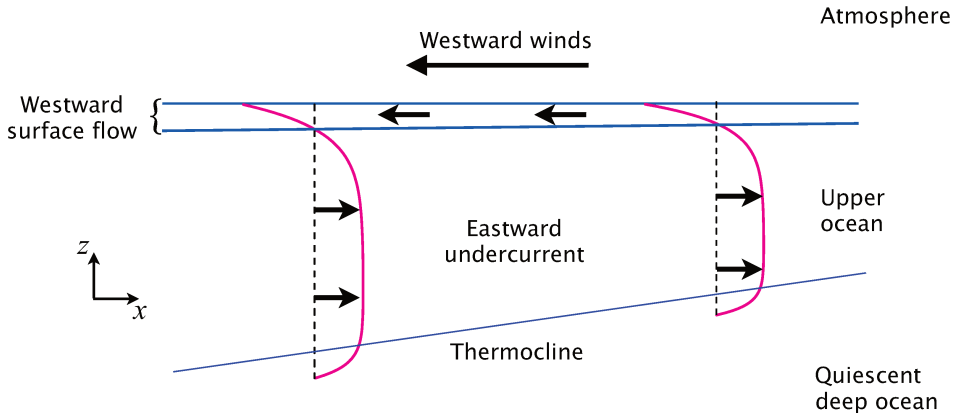


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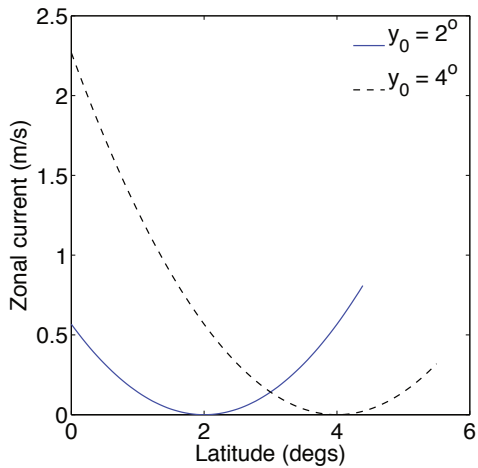


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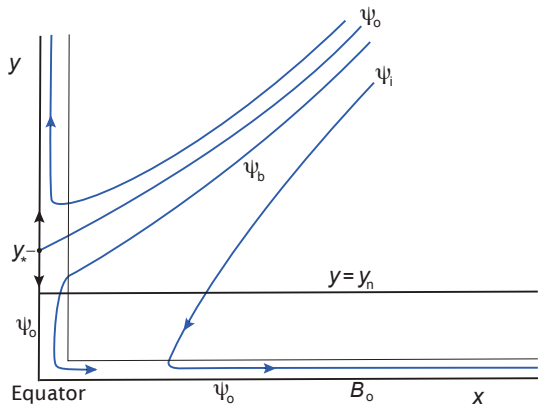


Fig. 22.10

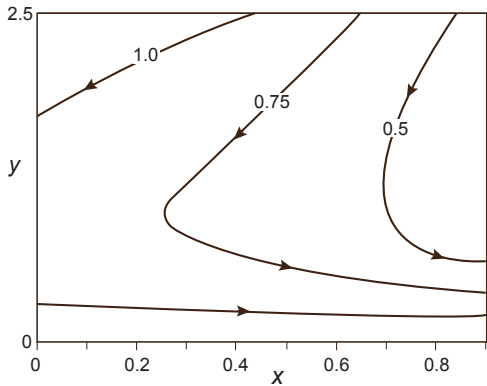


Fig. 22.11

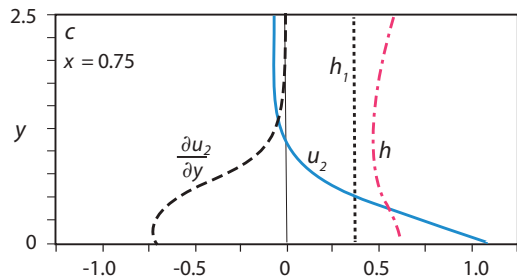
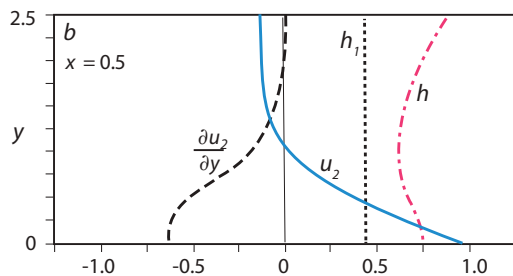
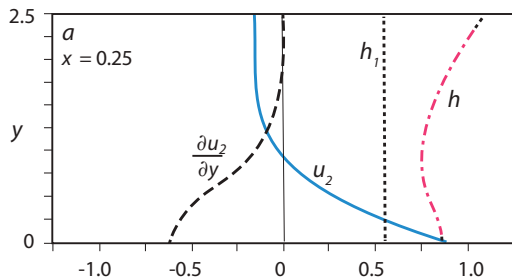


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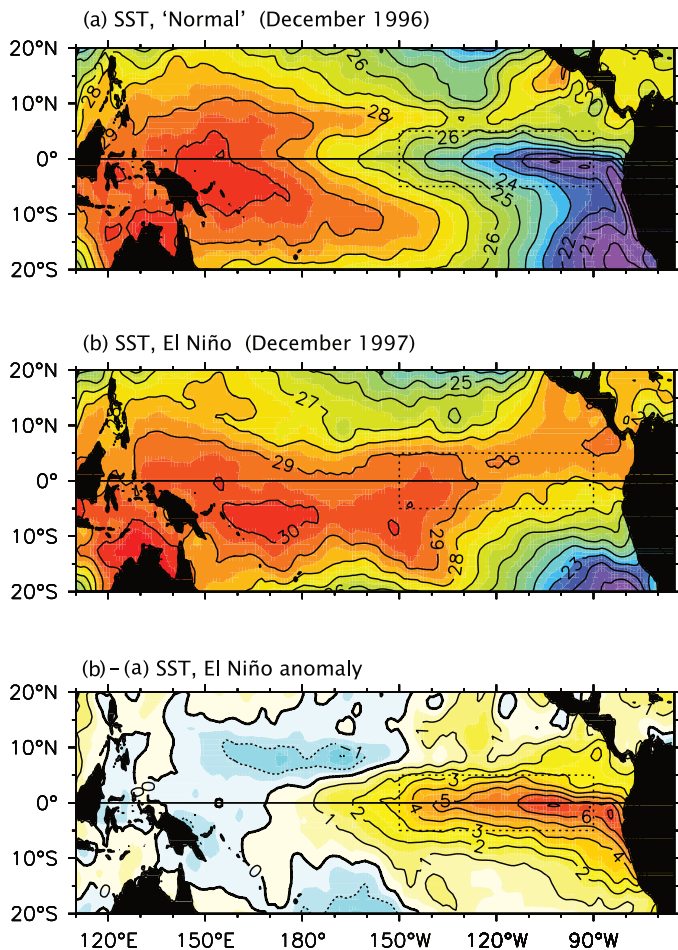


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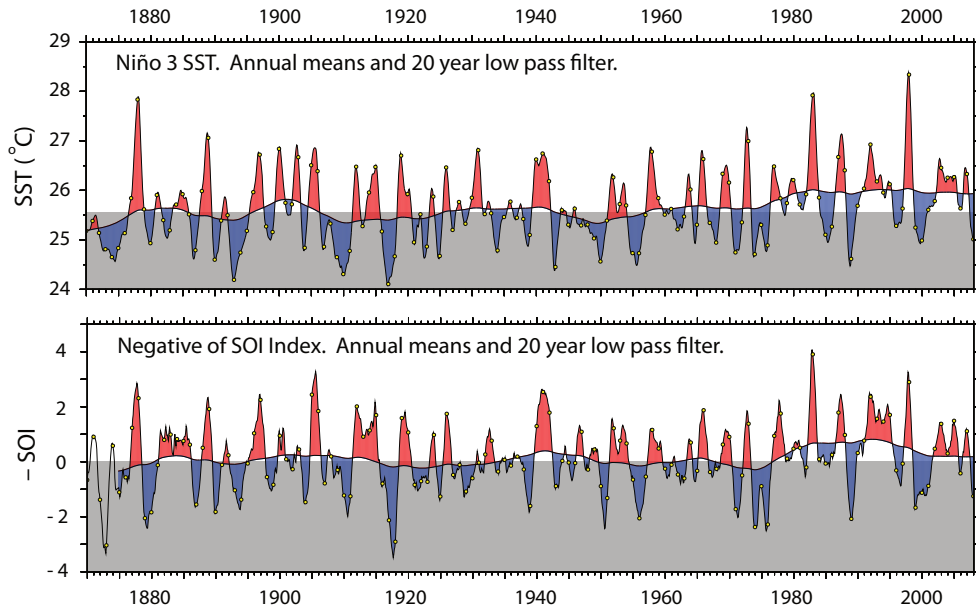


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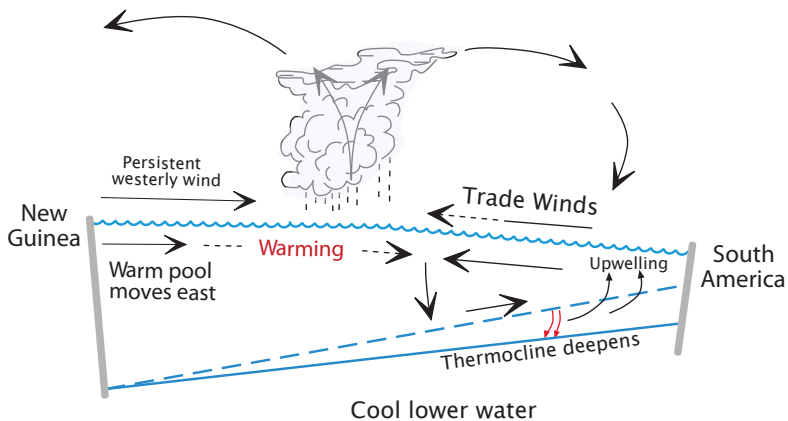
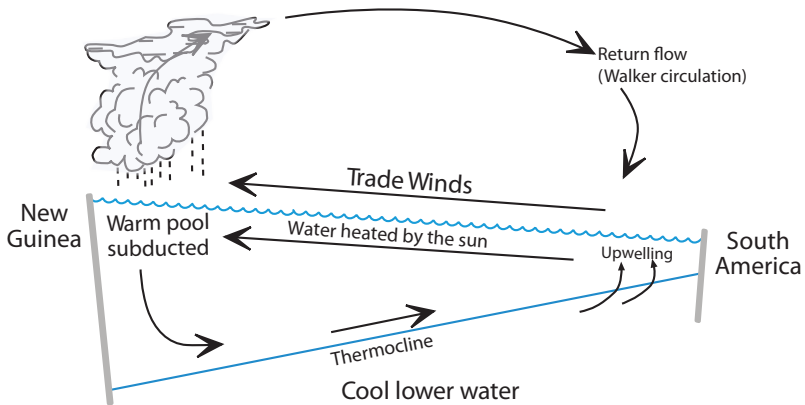


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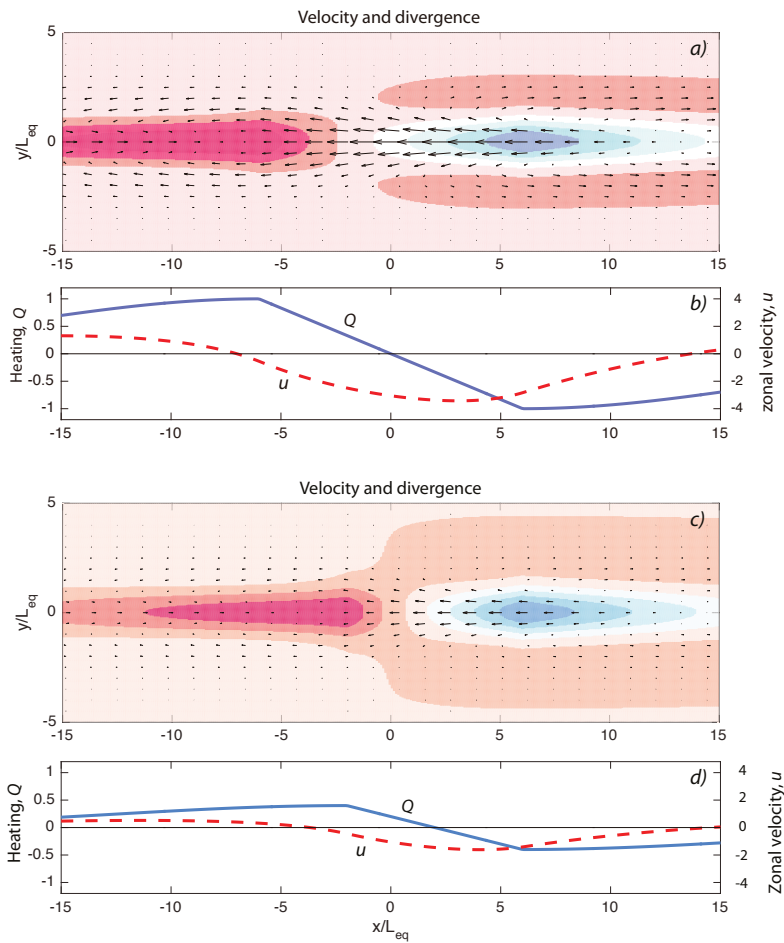


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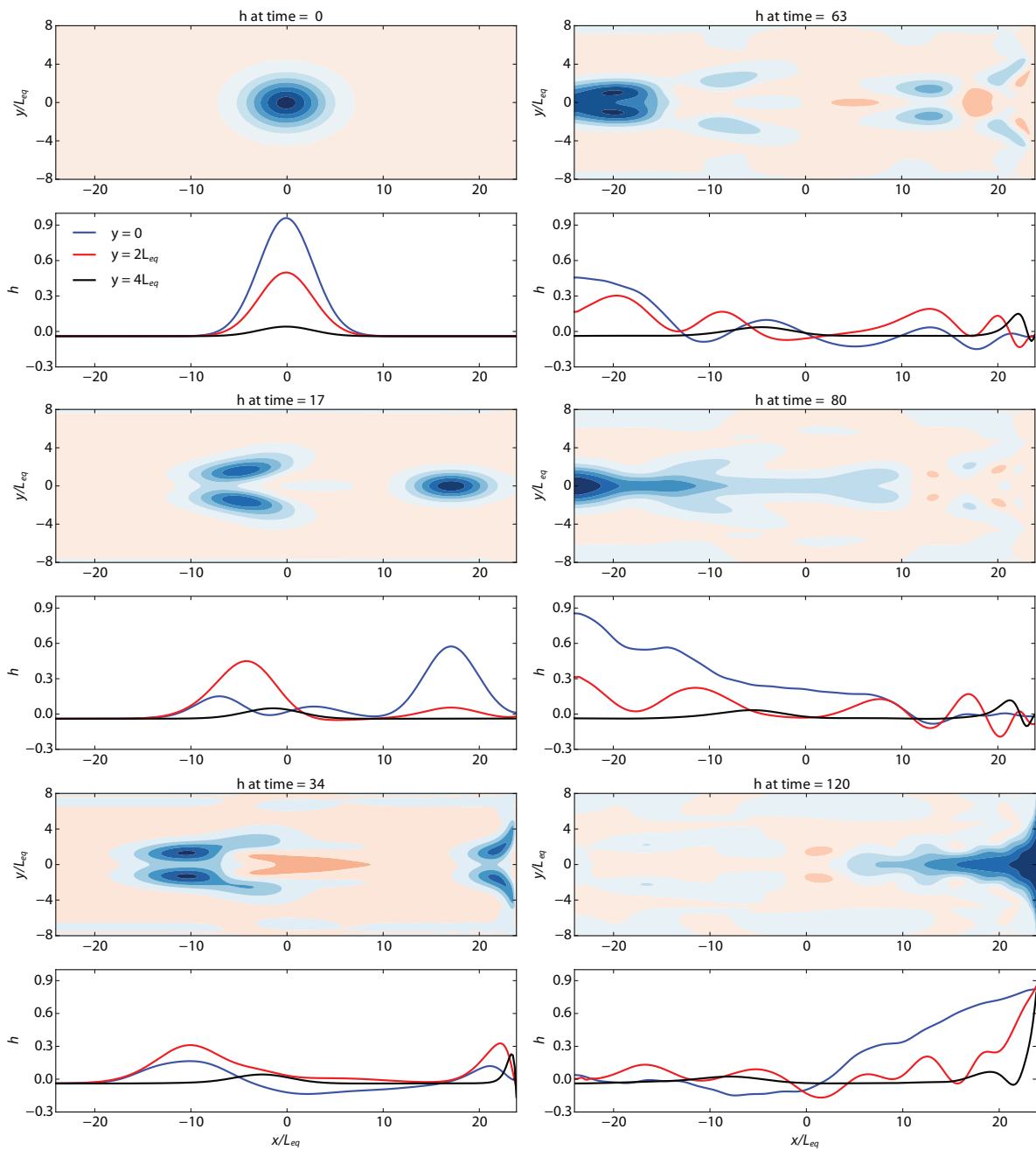


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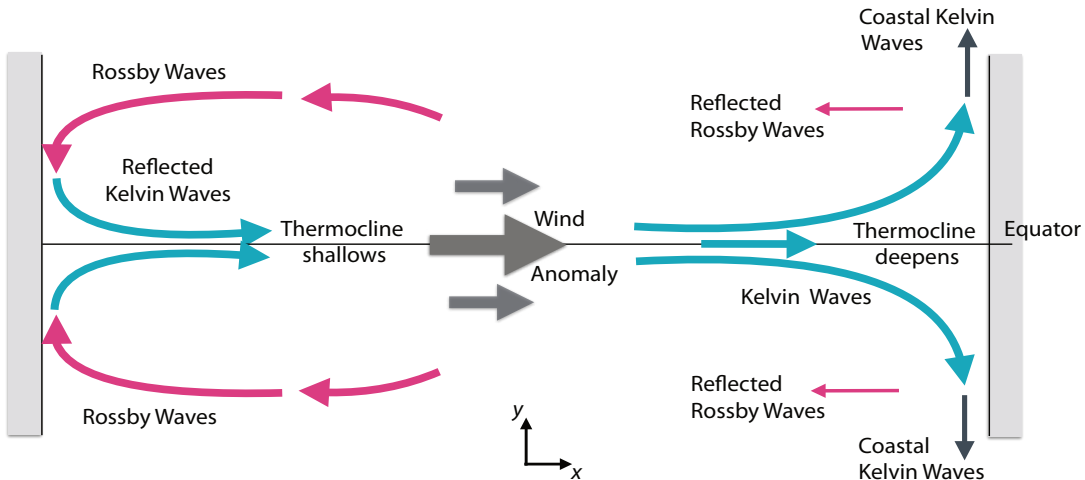


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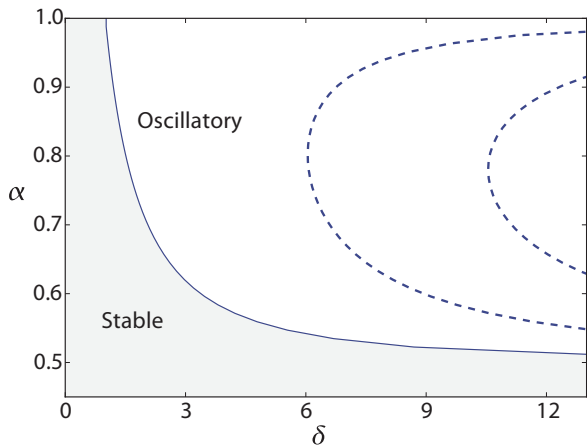


Fig. 22.20

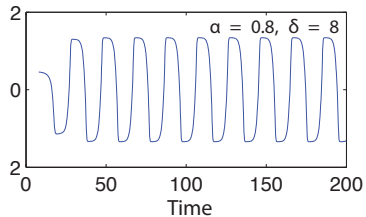
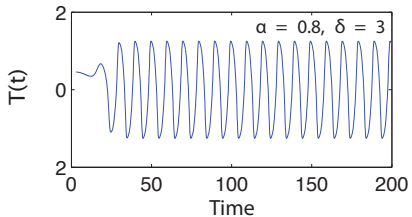
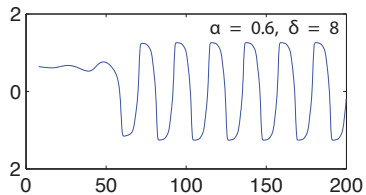
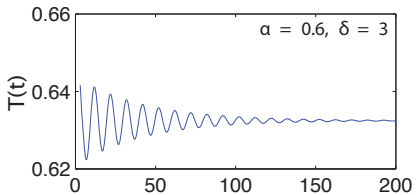


Fig. 22.21

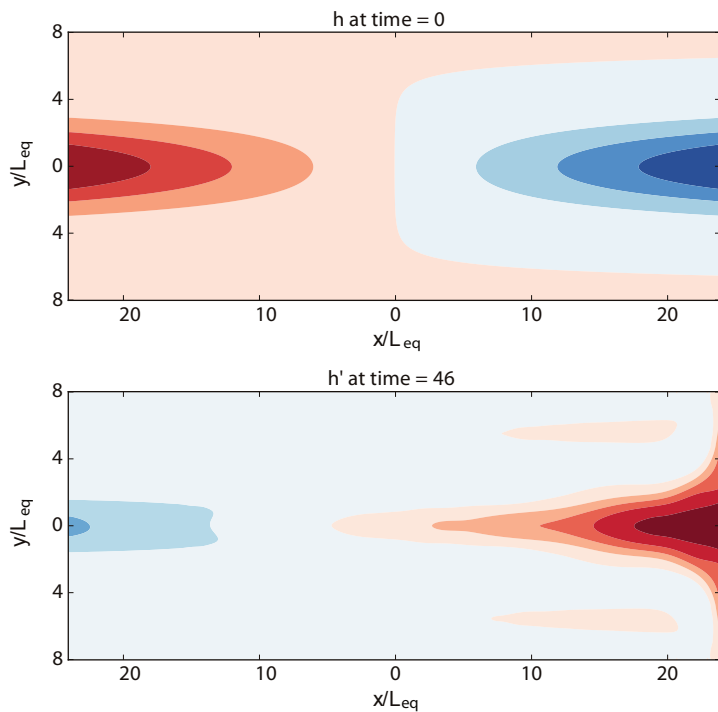


Fig. 22.22

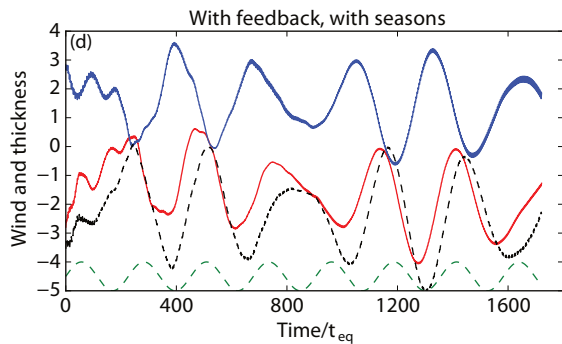
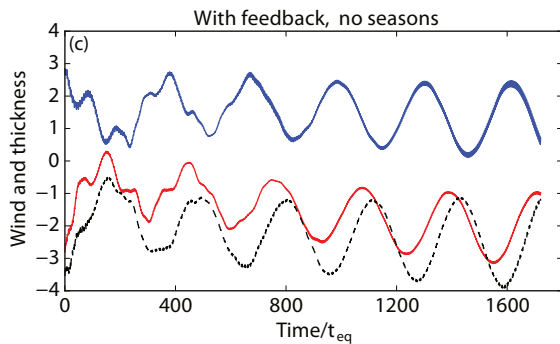
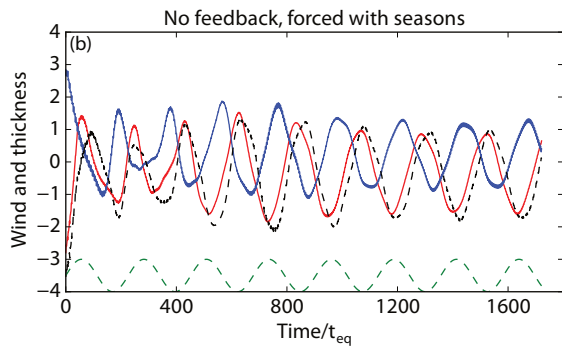
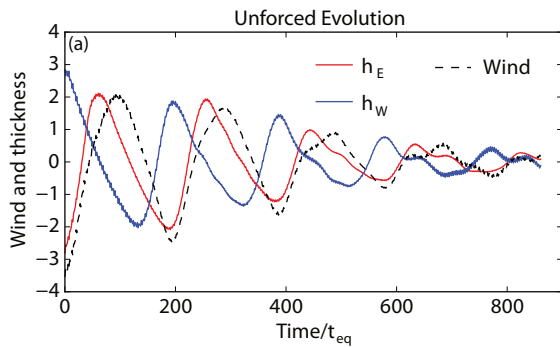


Fig. 22.23