

Fig. 1.1

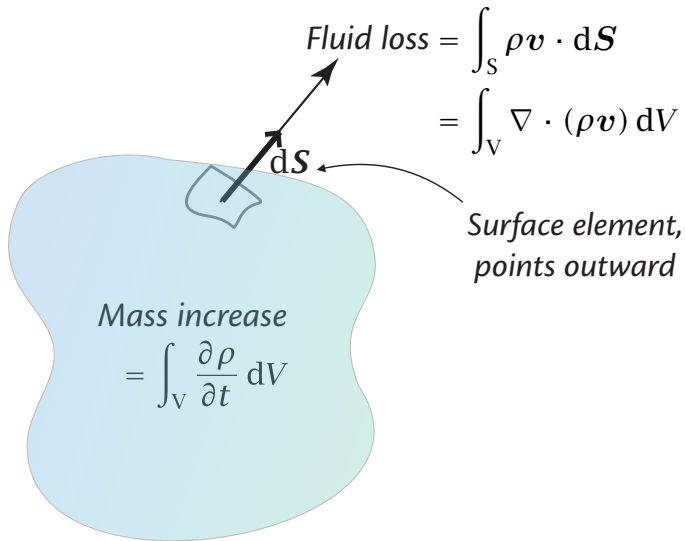
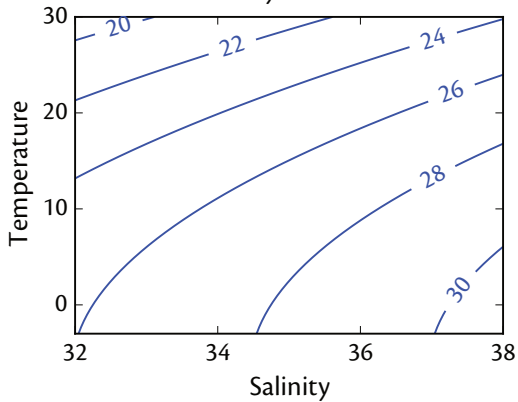


Fig. 1.2

Density at surface



Density at 4 km

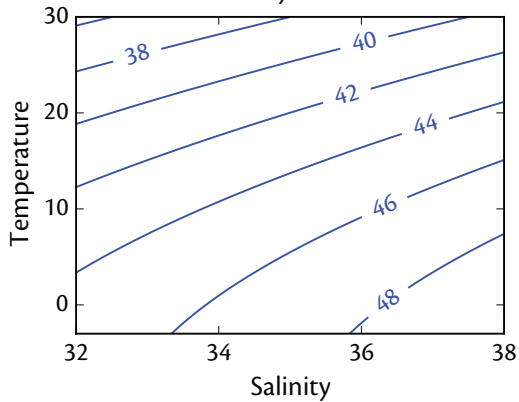


Fig. 1.3

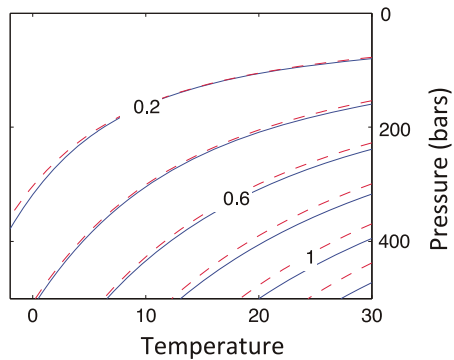
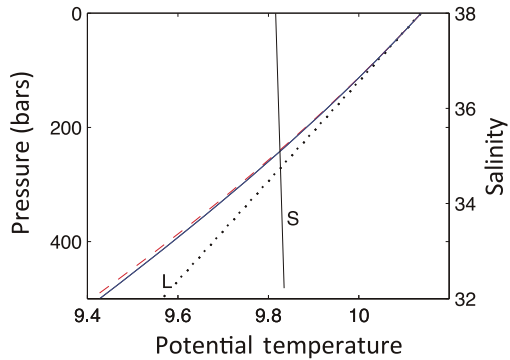


Fig. 1.4

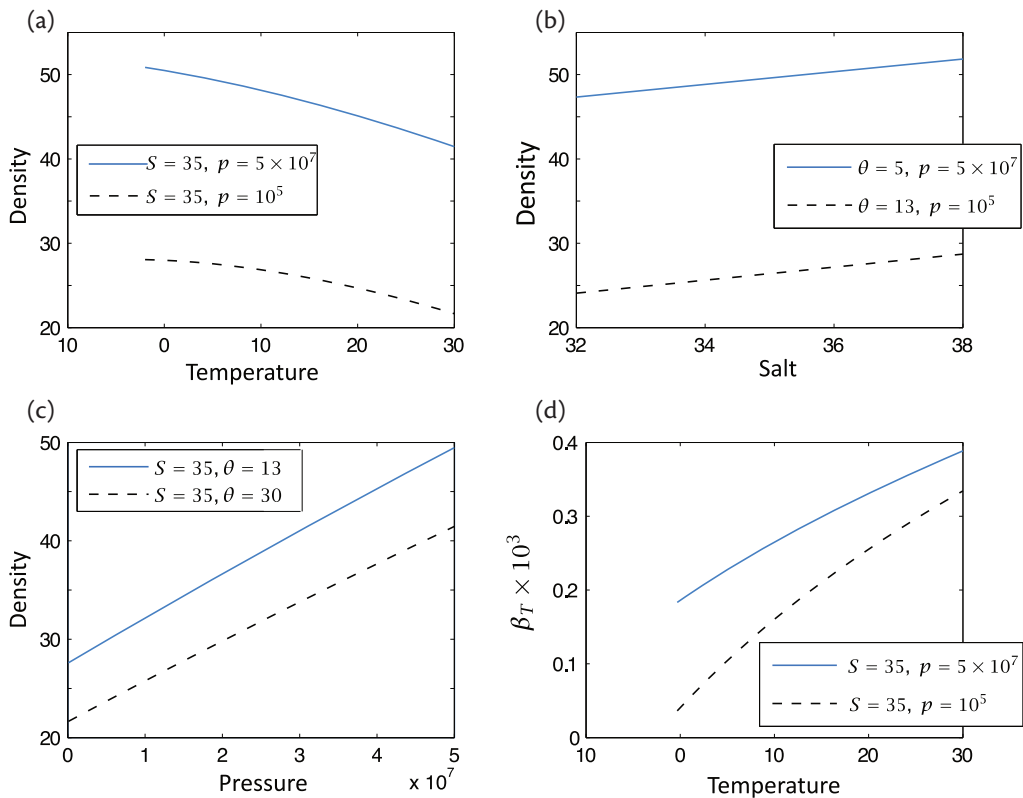


Fig. 1.5

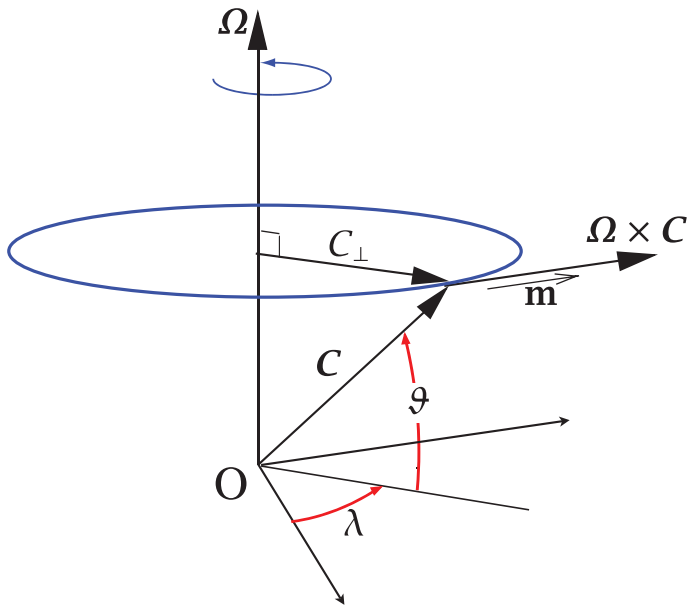


Fig. 2.1

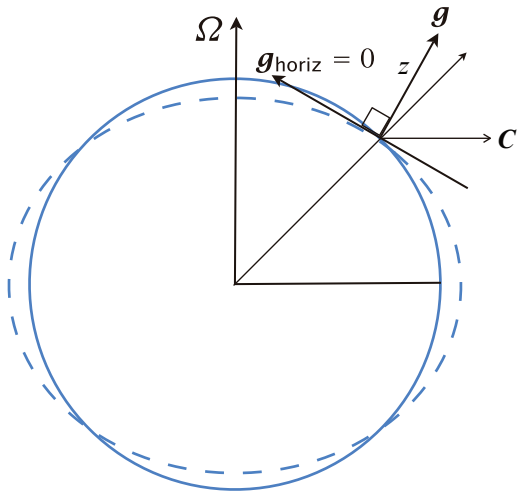
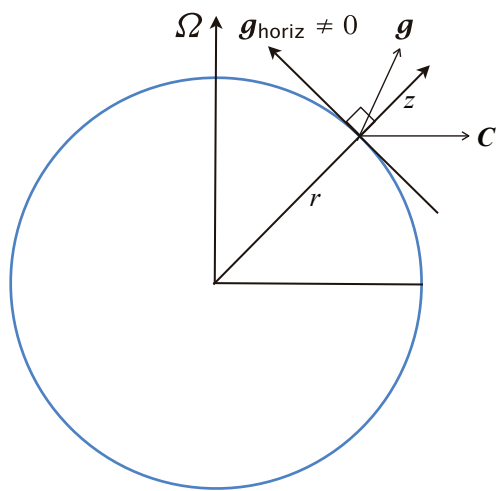


Fig. 2.2

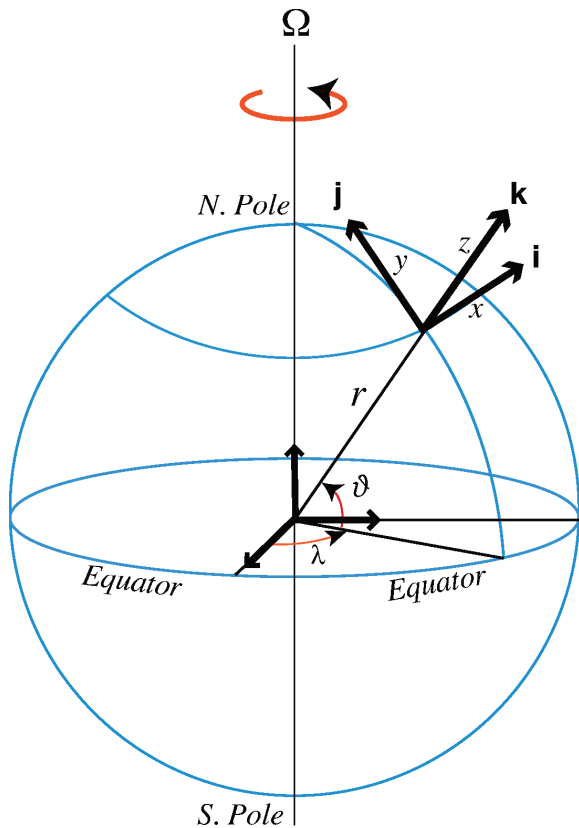


Fig. 2.3

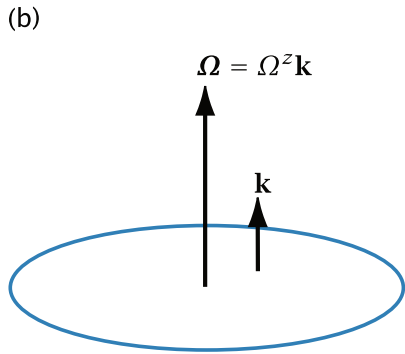
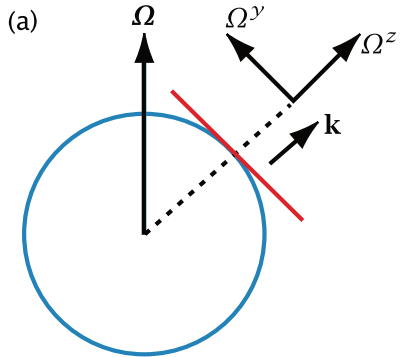


Fig. 2.4

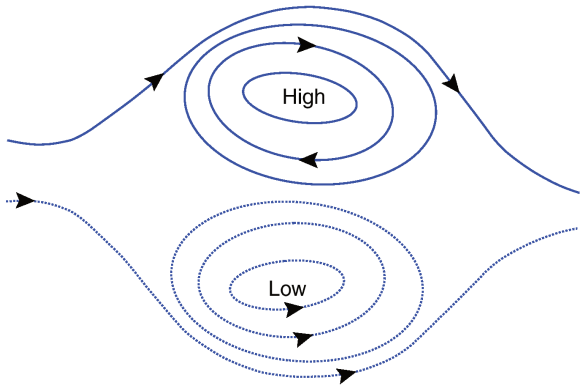


Fig. 2.5

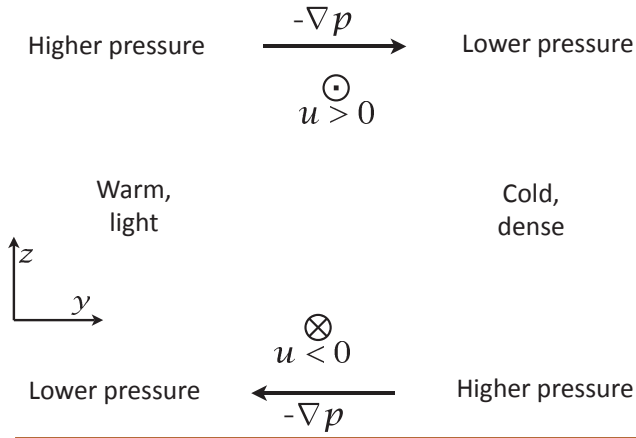


Fig. 2.6

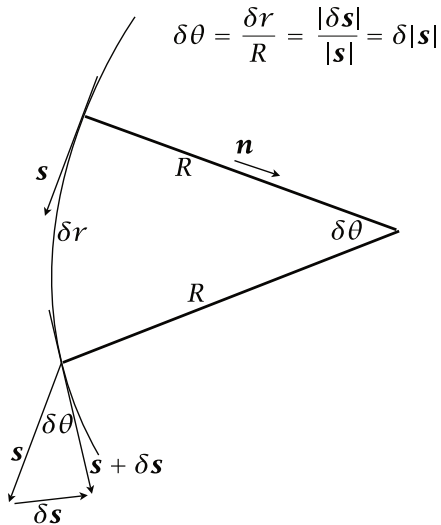
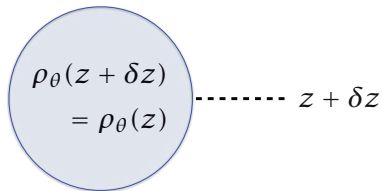


Fig. 2.7

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

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



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

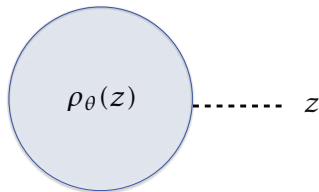


Fig. 2.8

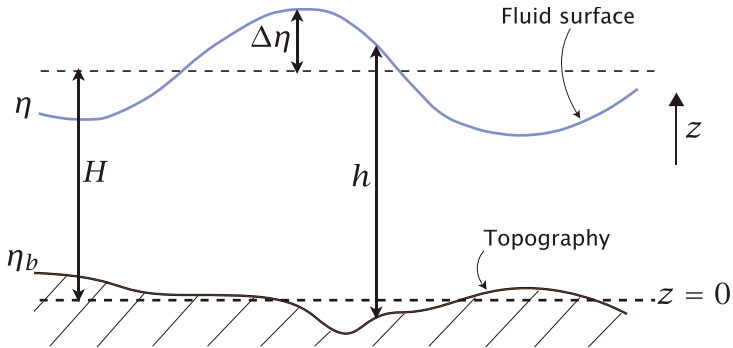


Fig. 3.1

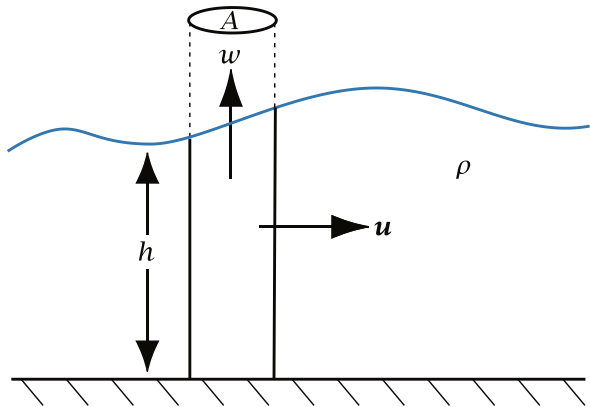


Fig. 3.2

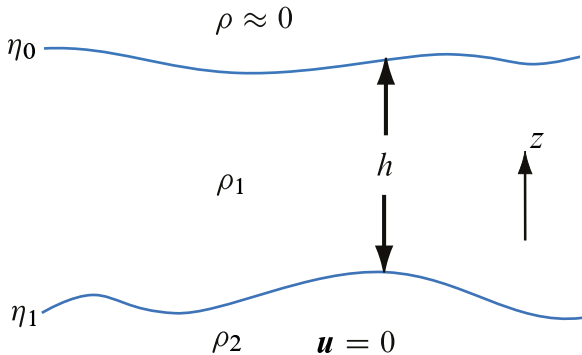


Fig. 3.3

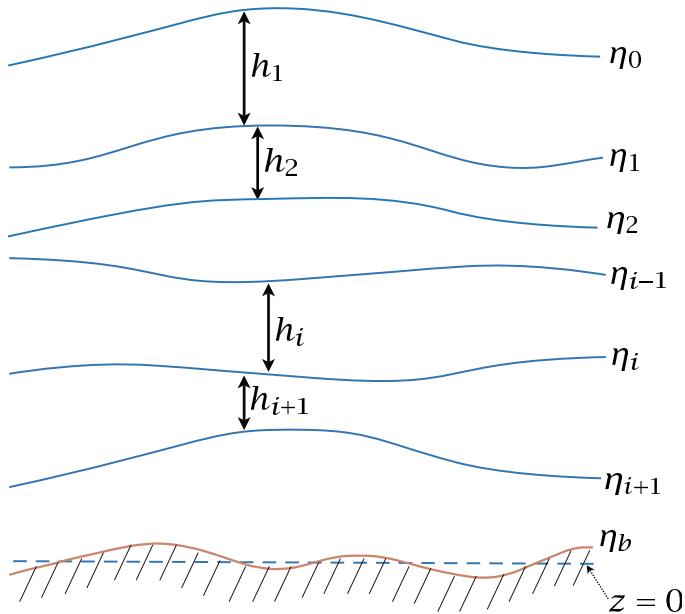


Fig. 3.4

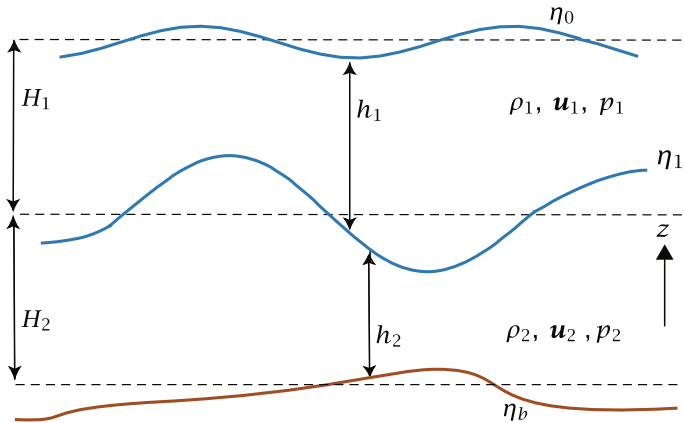


Fig. 3.5

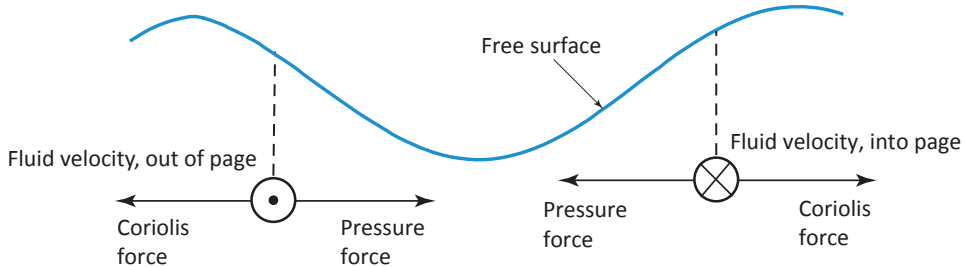


Fig. 3.6

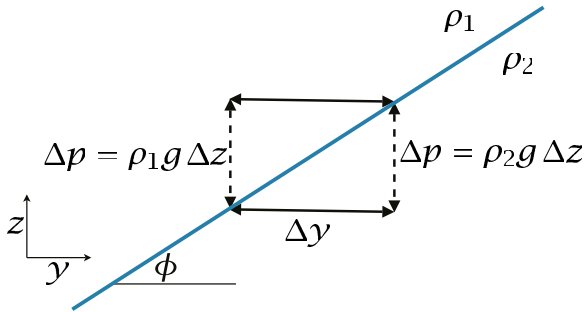


Fig. 3.7

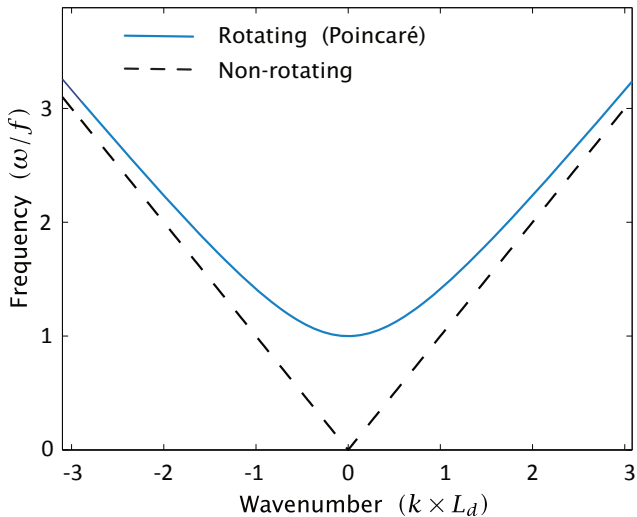


Fig. 3.8

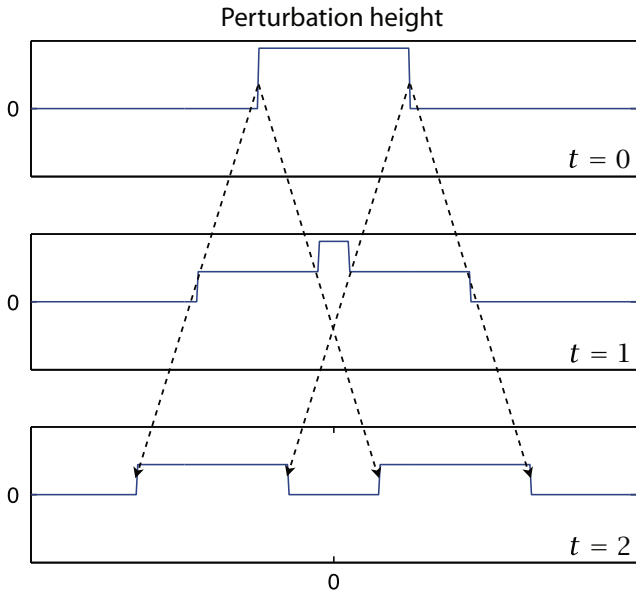


Fig. 3.9

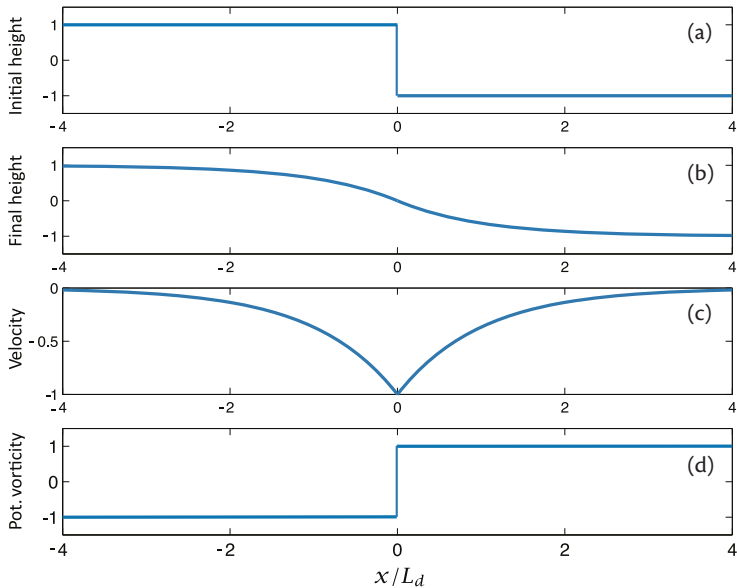


Fig. 3.10

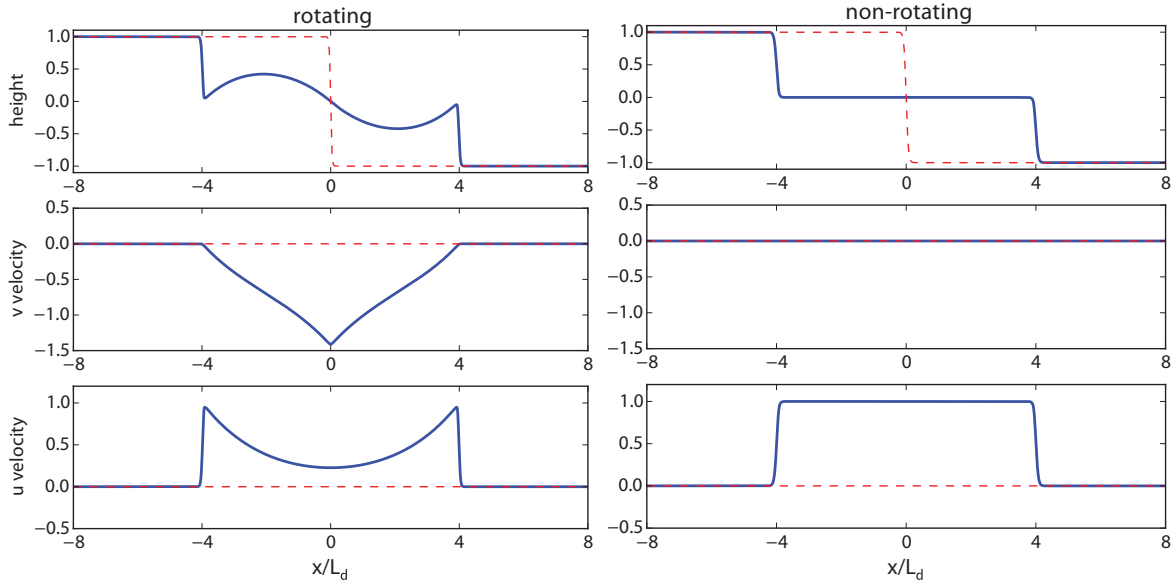


Fig. 3.11

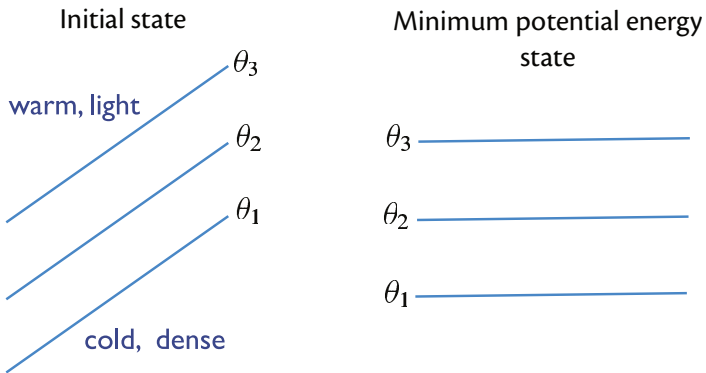


Fig. 3.12

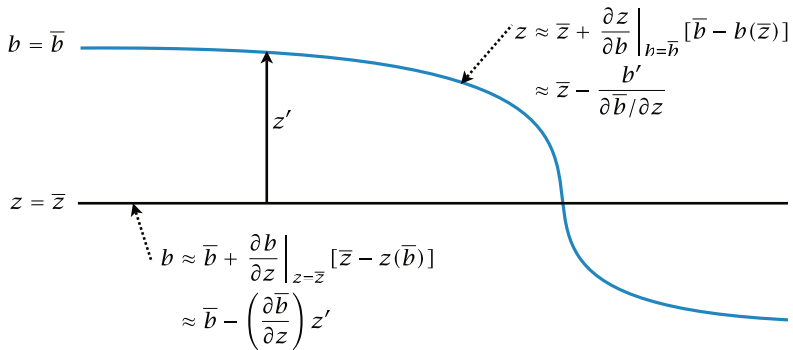


Fig. 3.13

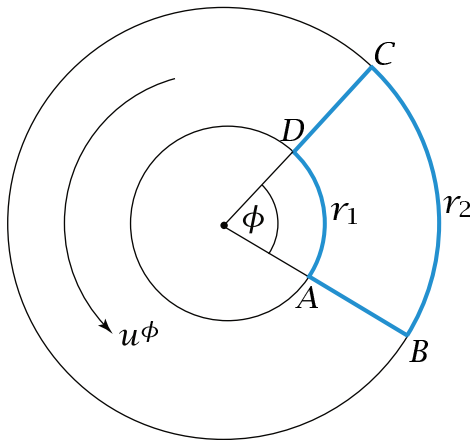


Fig. 4.1

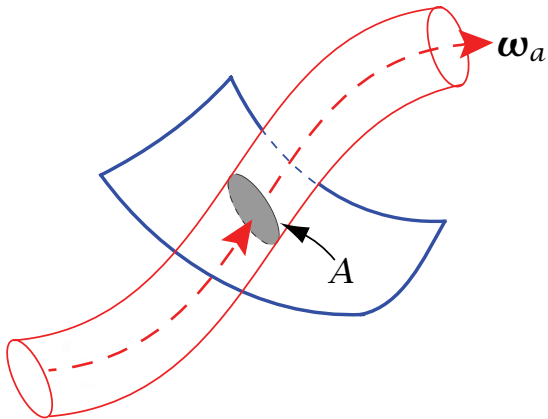


Fig. 4.2

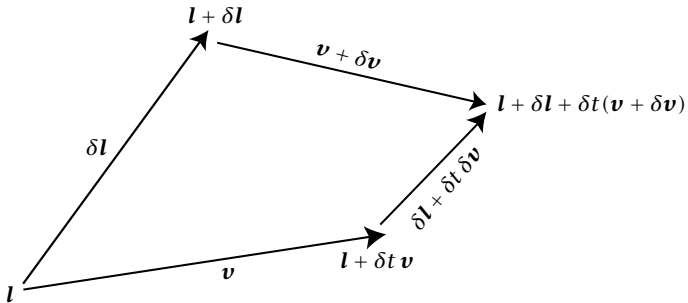


Fig. 4.3

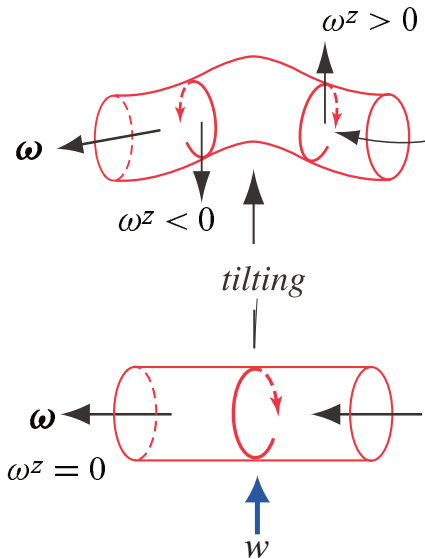


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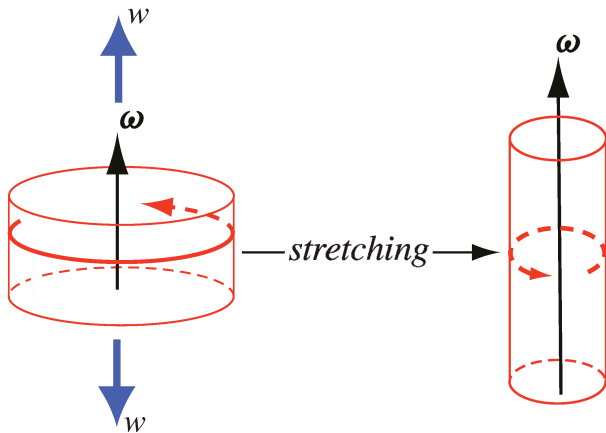


Fig. 4.5

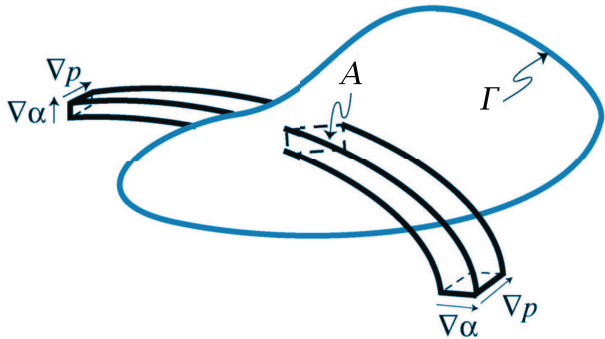


Fig. 4.6

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

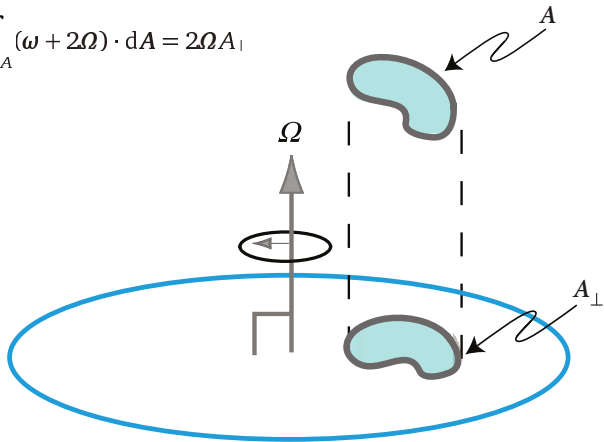


Fig. 4.7

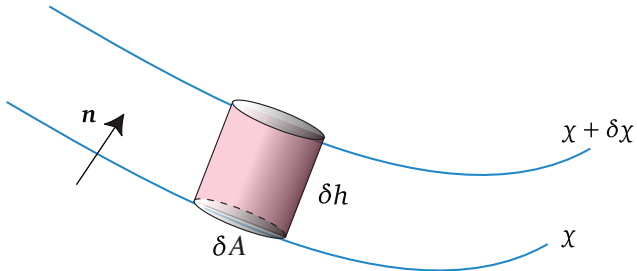
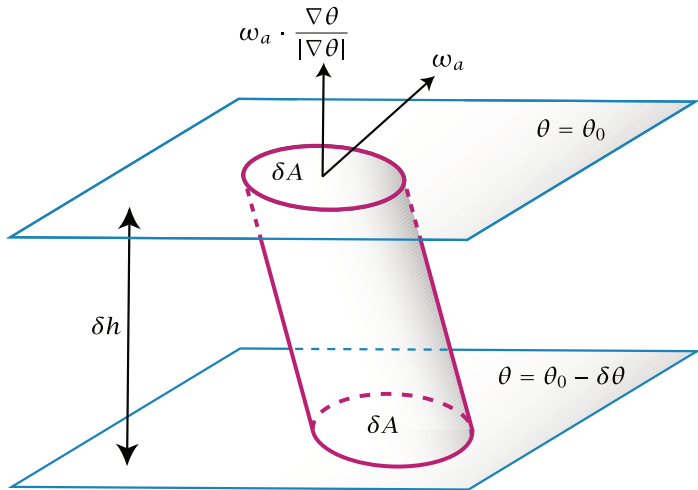


Fig. 4.8



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

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

Fig. 4.9

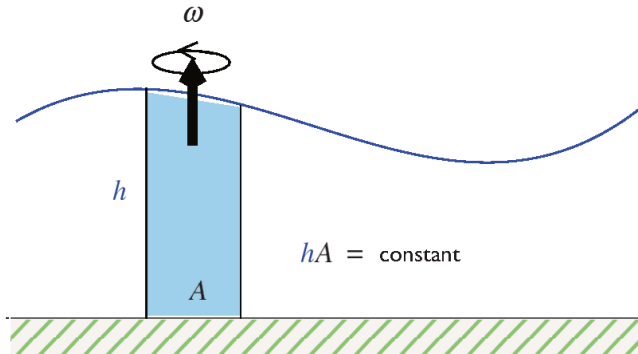


Fig. 4.10

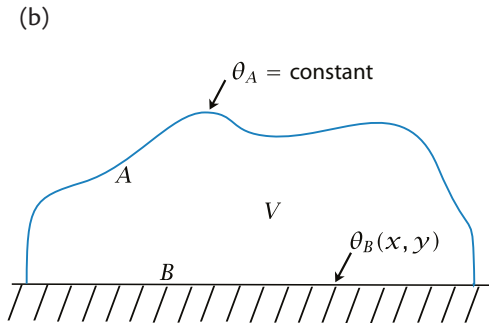
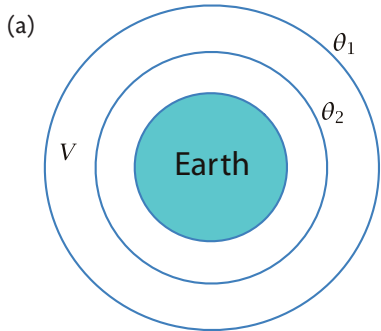


Fig. 4.11

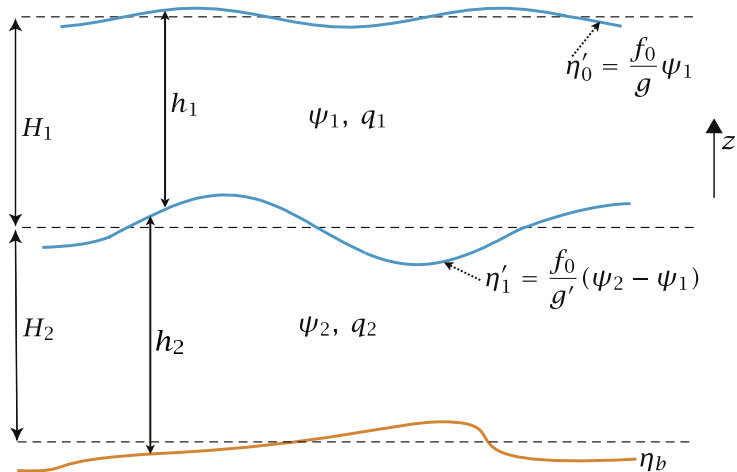


Fig. 5.1

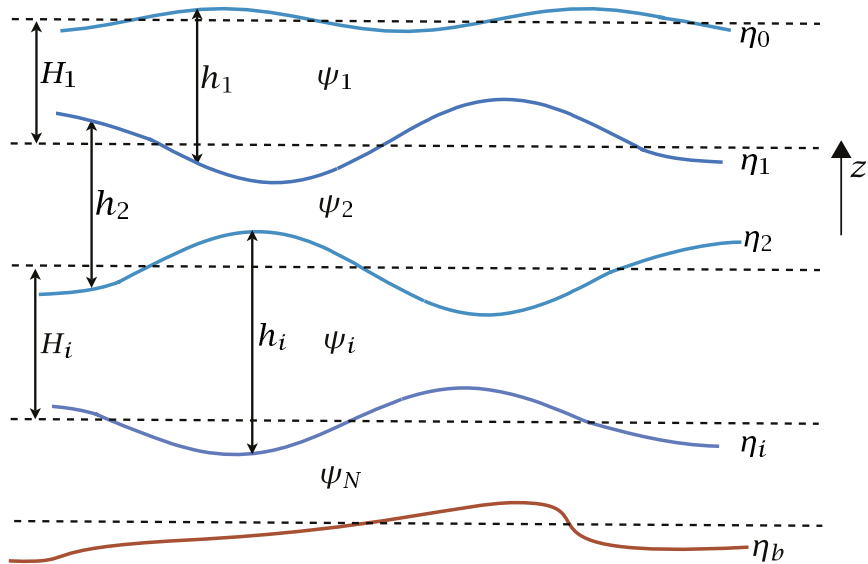


Fig. 5.2

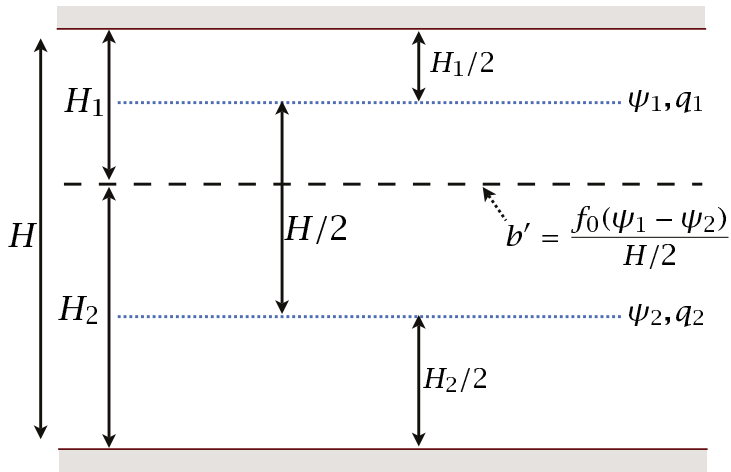


Fig. 5.3

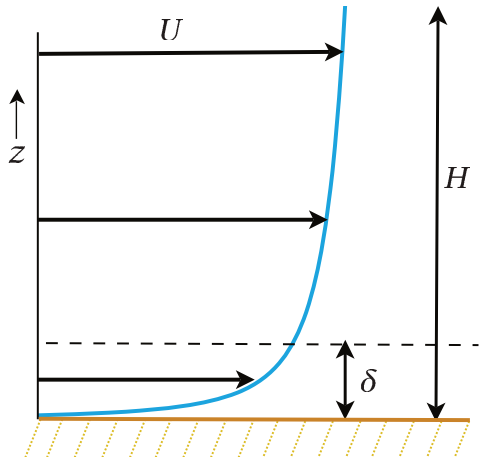


Fig. 5.4

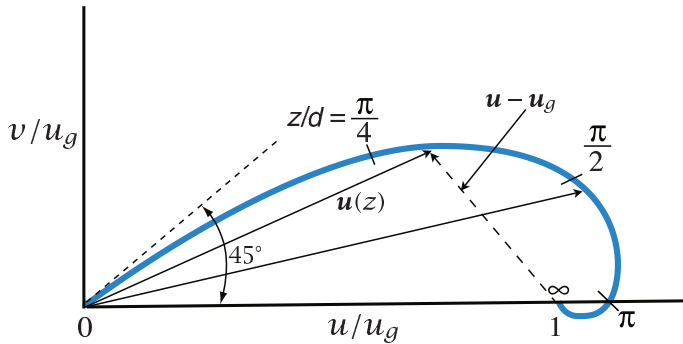


Fig. 5.5

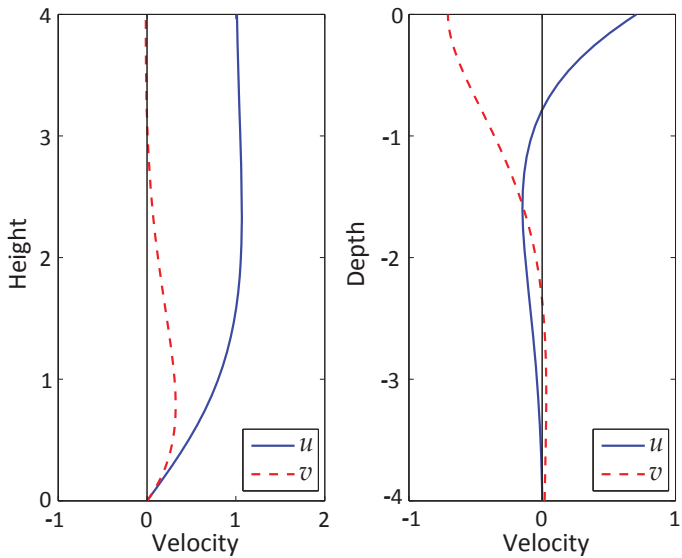


Fig. 5.6

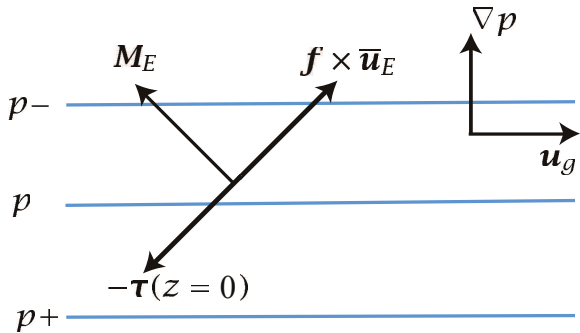


Fig. 5.7

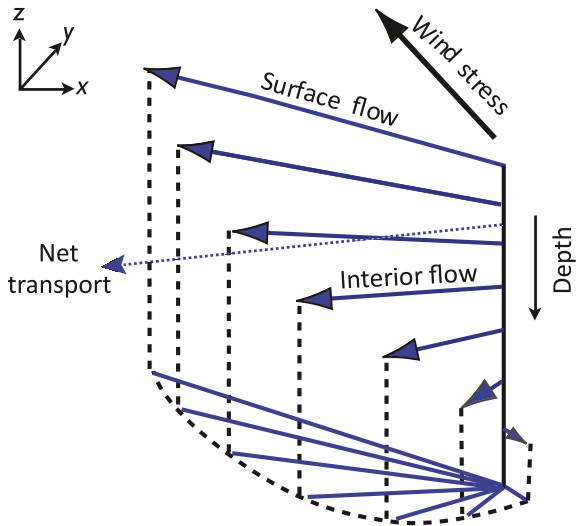


Fig. 5.8

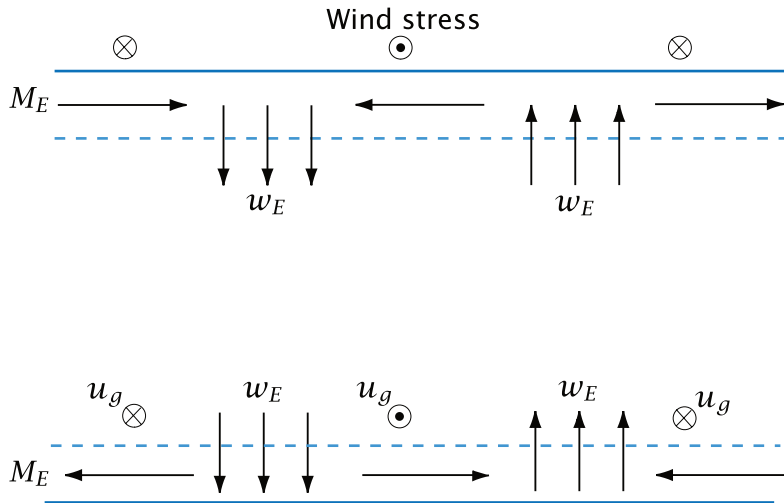


Fig. 5.9

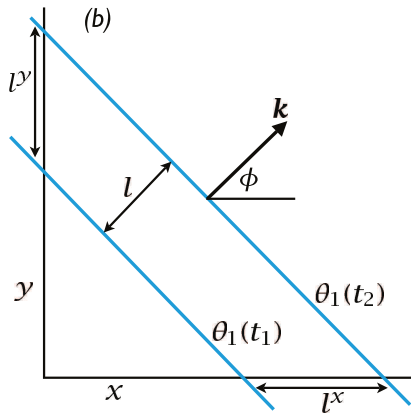
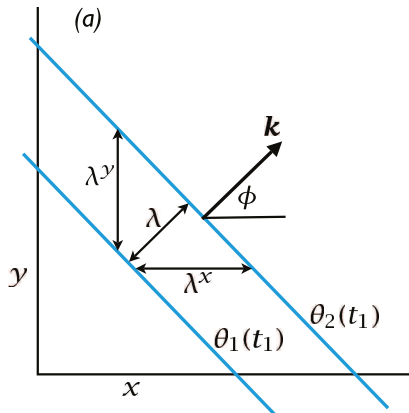


Fig. 6.1

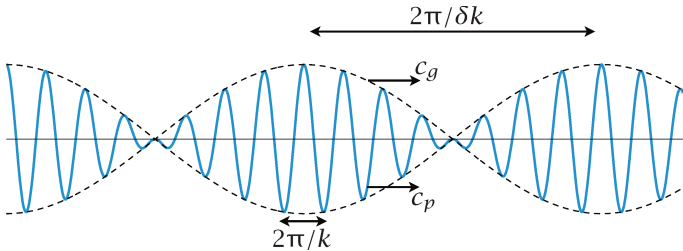


Fig. 6.2

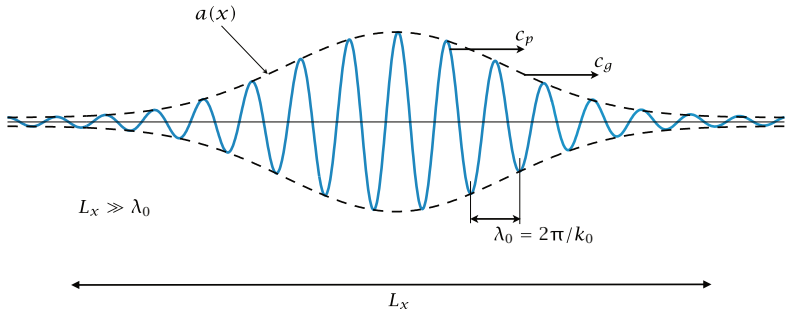


Fig. 6.3

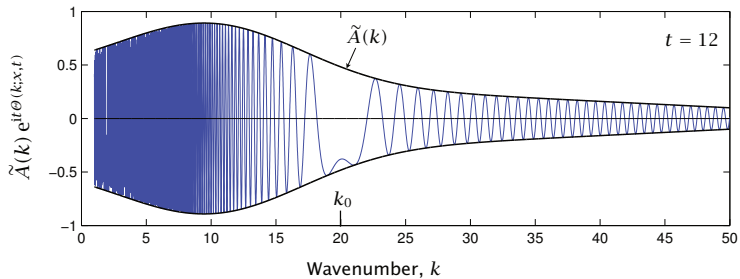
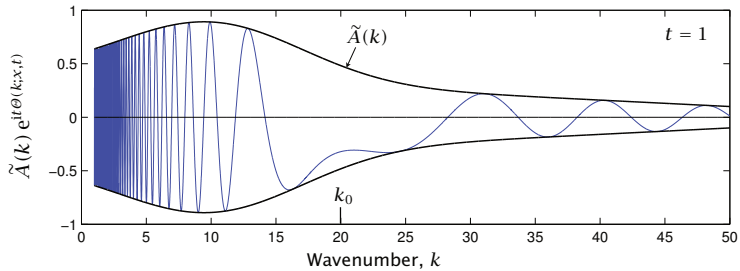


Fig. 6.4

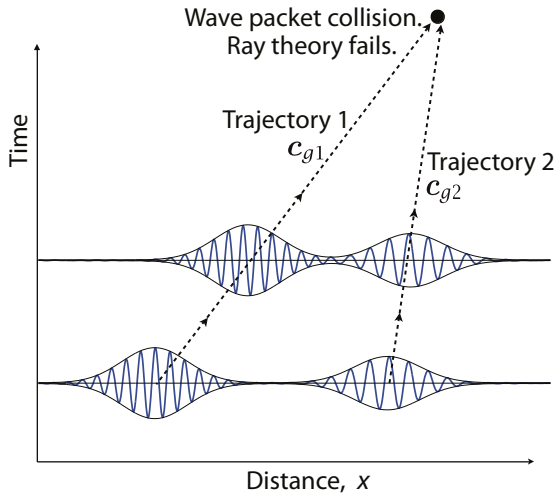


Fig. 6.5

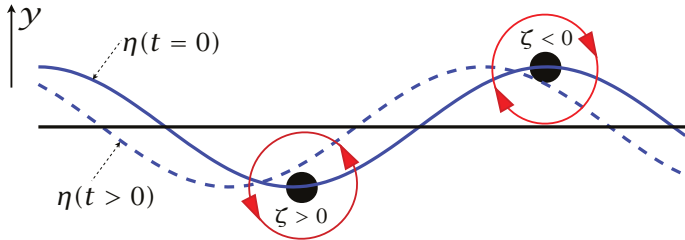


Fig. 6.6

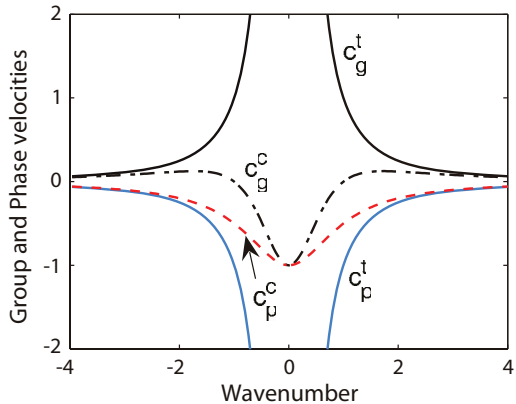
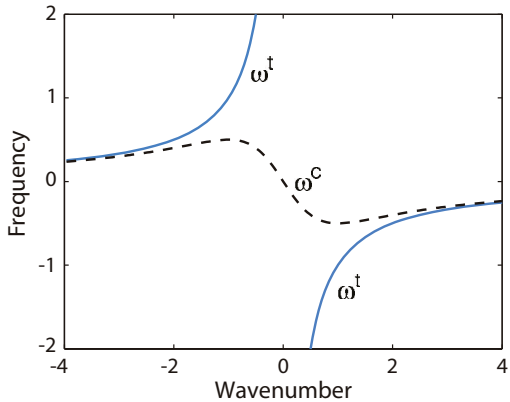


Fig. 6.7

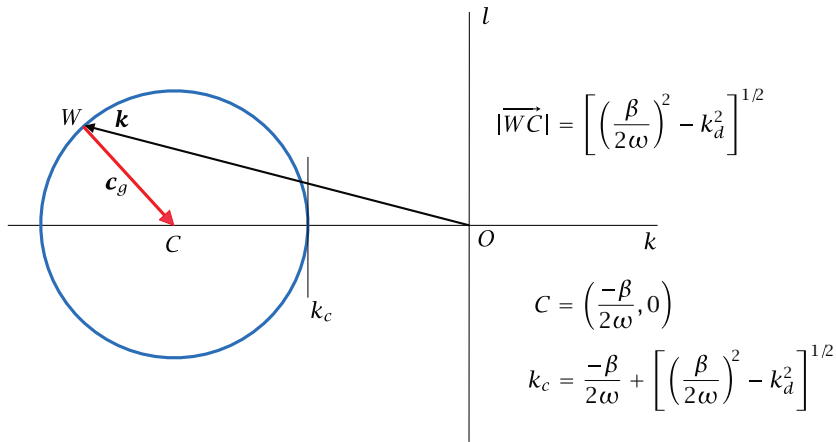


Fig. 6.8

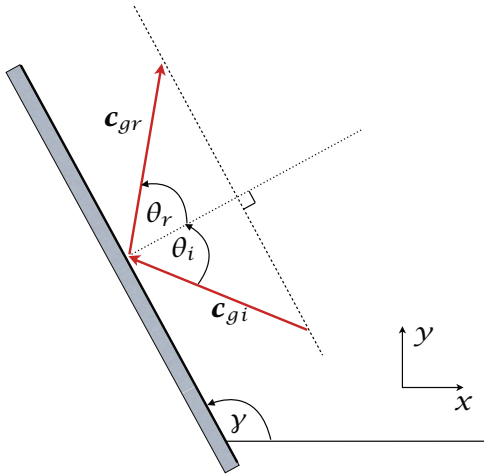


Fig. 6.9

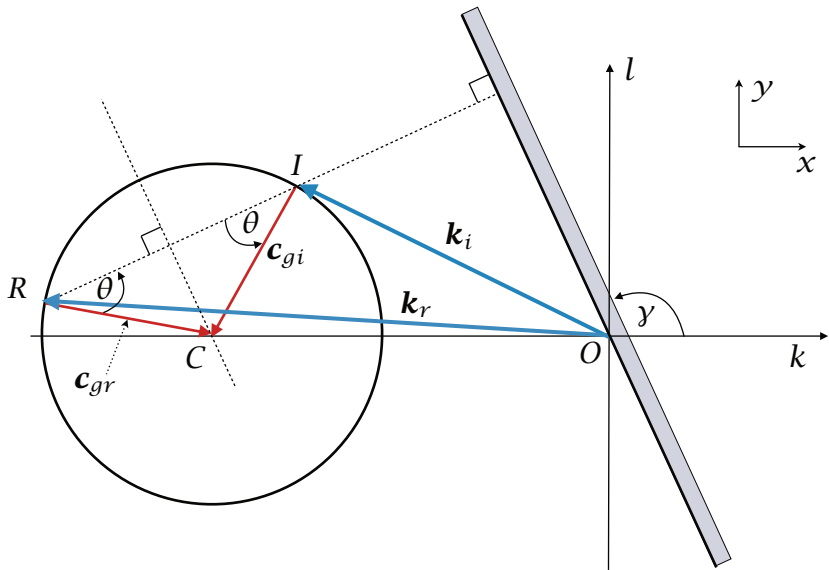


Fig. 6.10

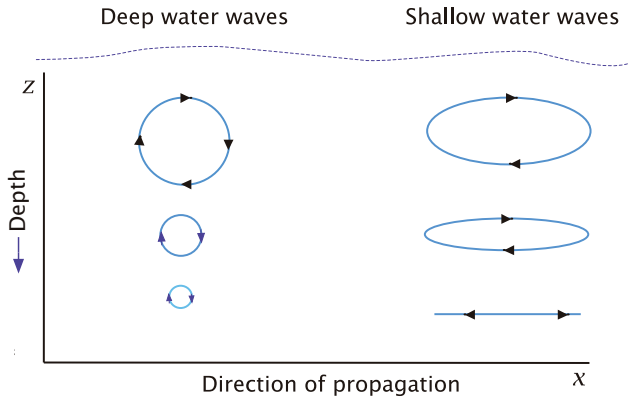


Fig. 7.1

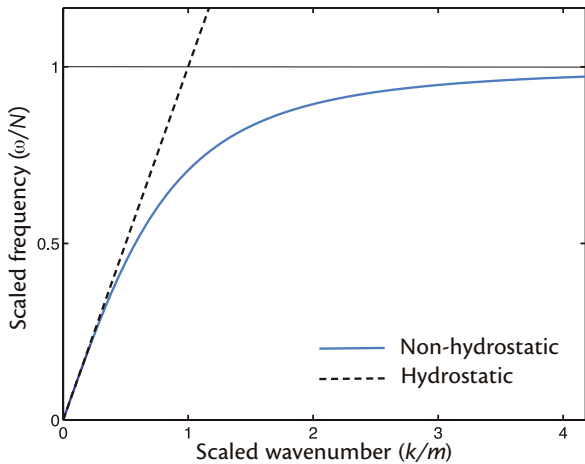


Fig. 7.2

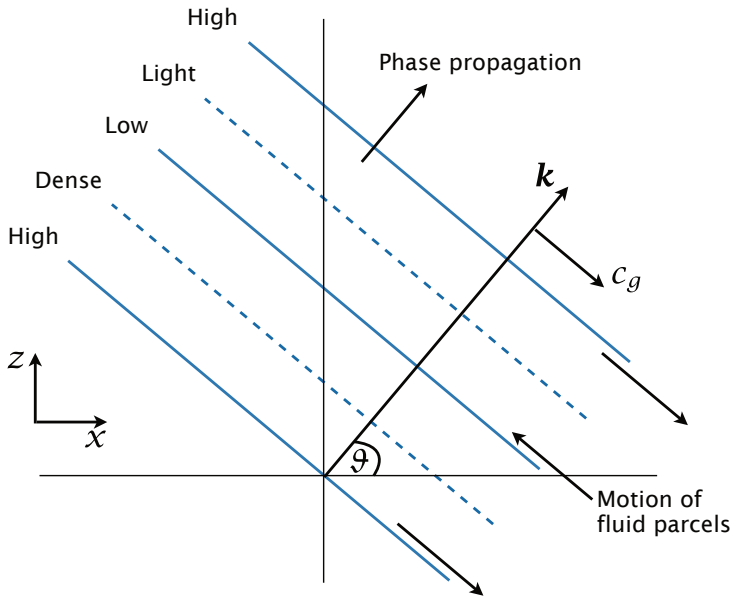


Fig. 7.3

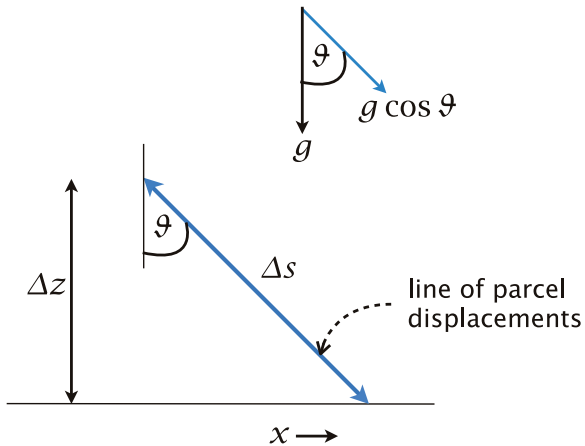


Fig. 7.4

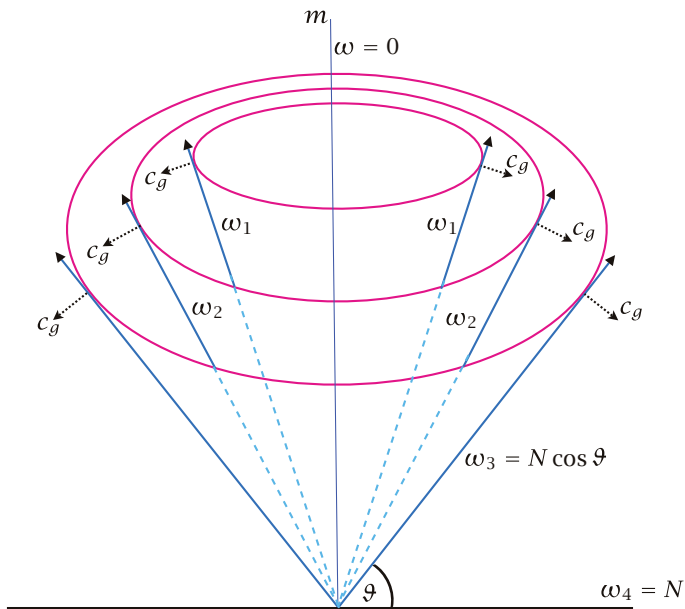


Fig. 7.5

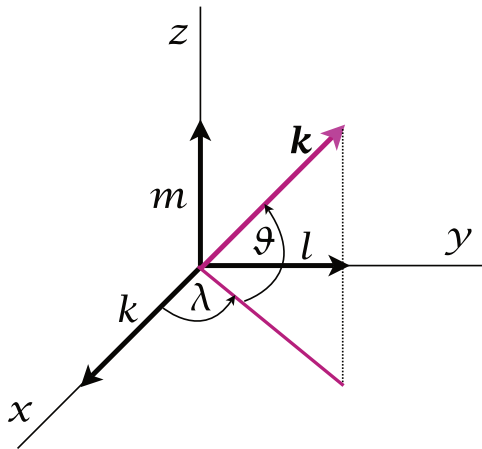


Fig. 7.6

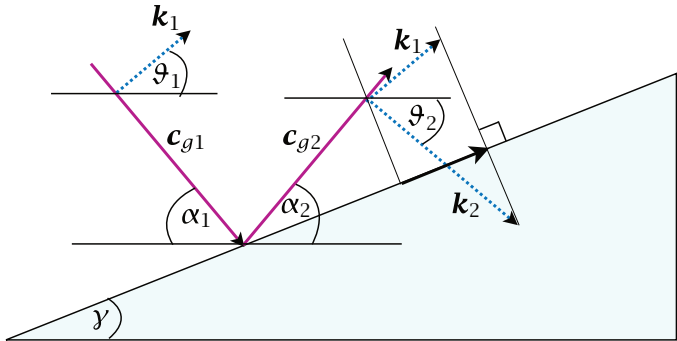


Fig. 7.7

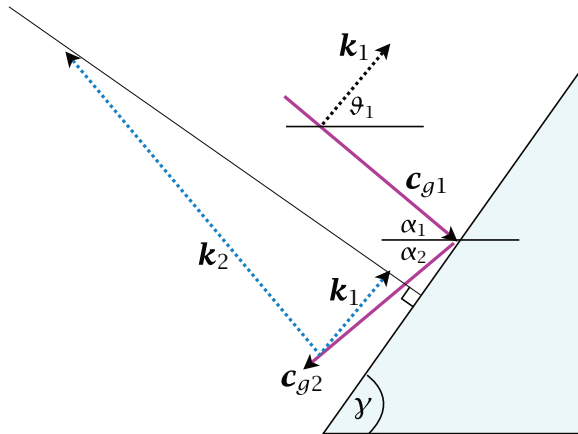


Fig. 7.8

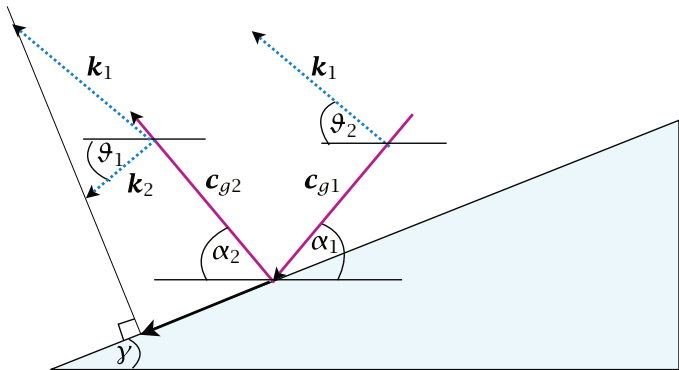


Fig. 7.9

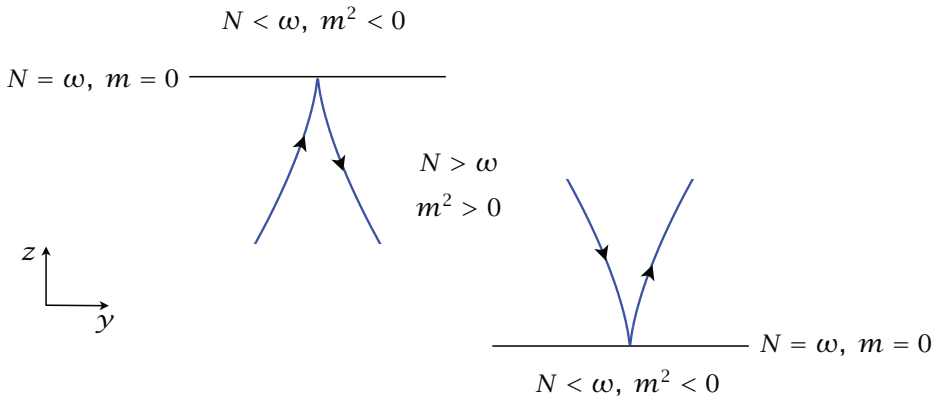


Fig. 7.10

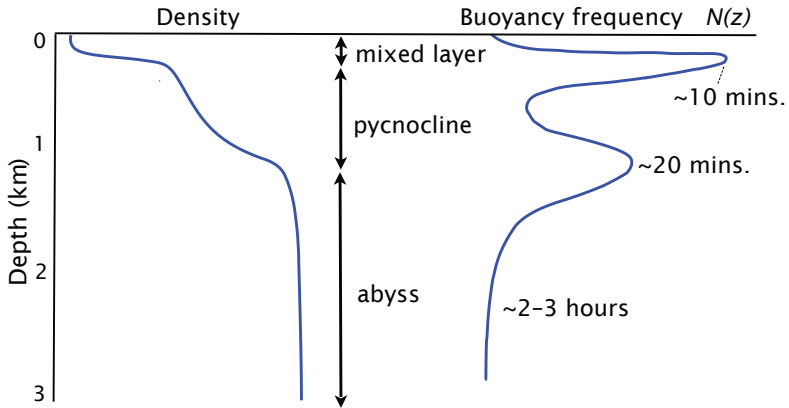


Fig. 7.11

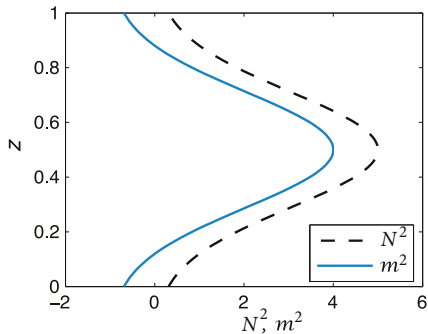
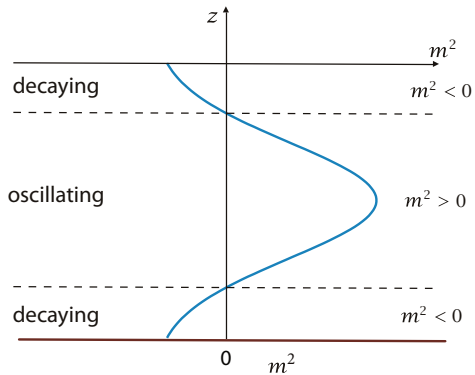


Fig. 7.12

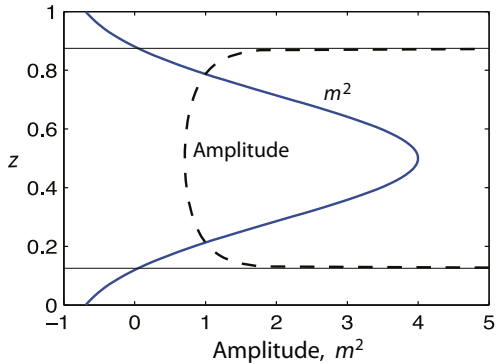
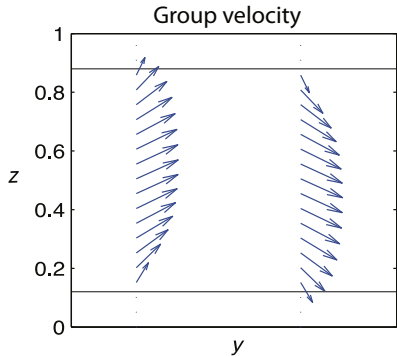


Fig. 7.13

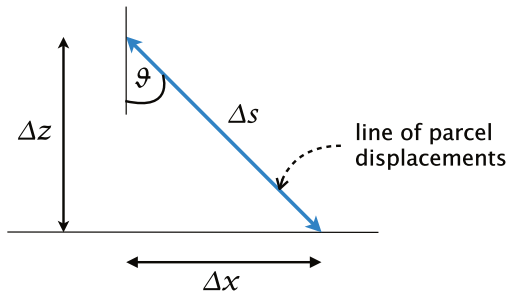
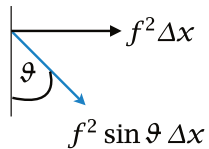
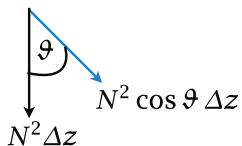


Fig. 7.14

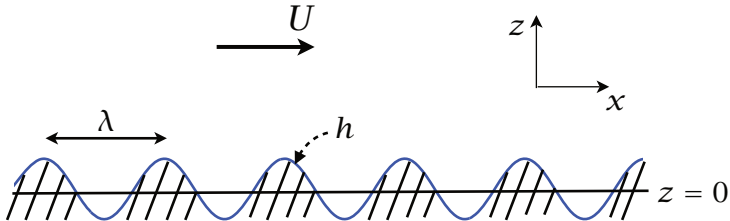


Fig. 7.15

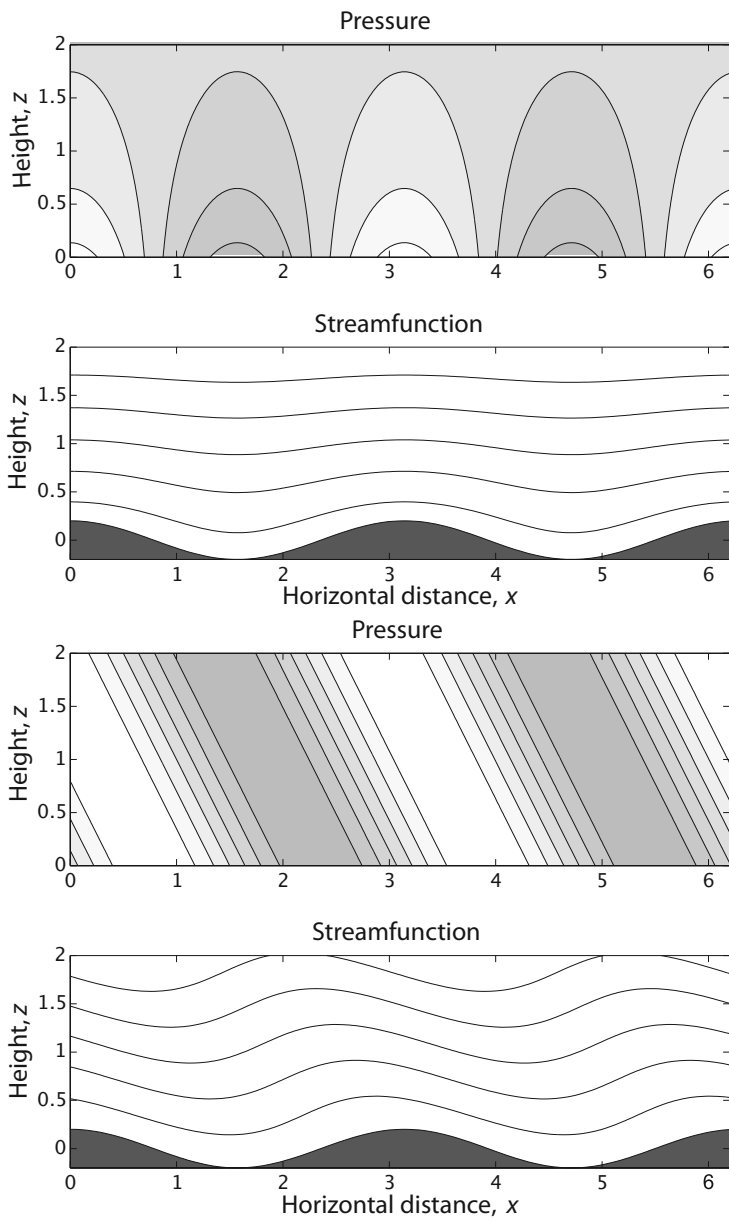


Fig. 7.16

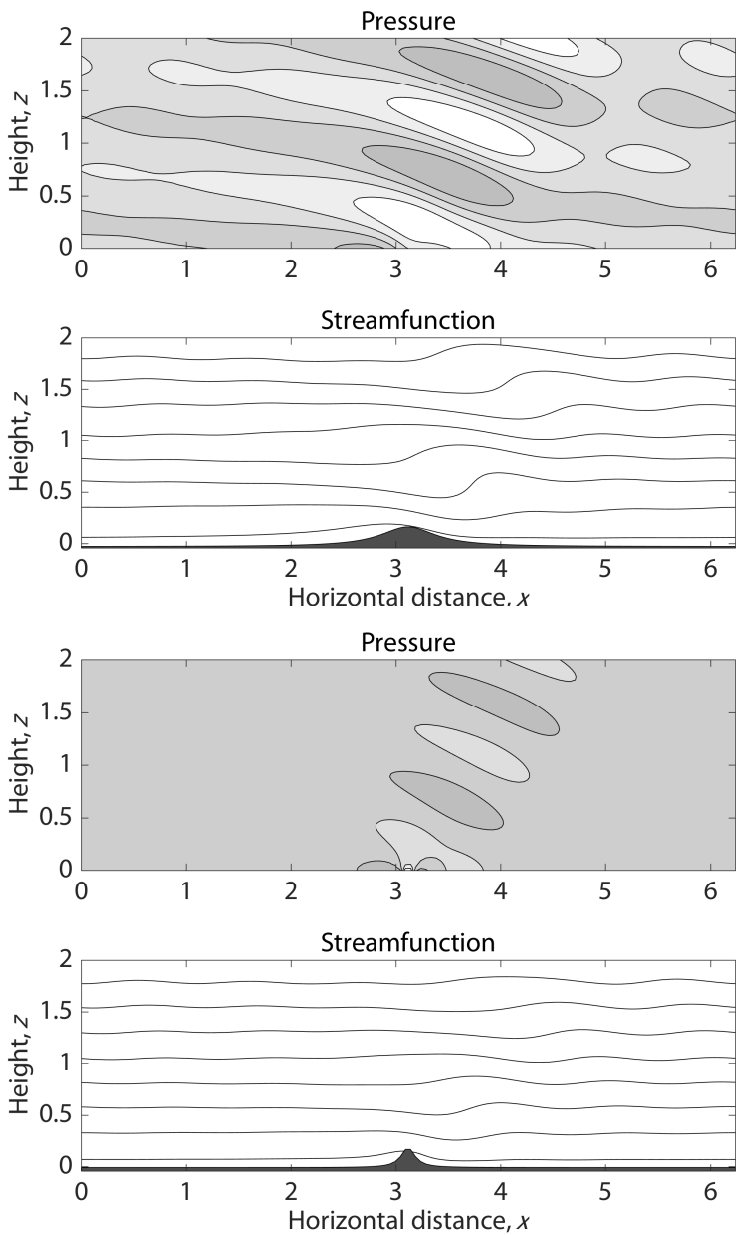


Fig. 7.17

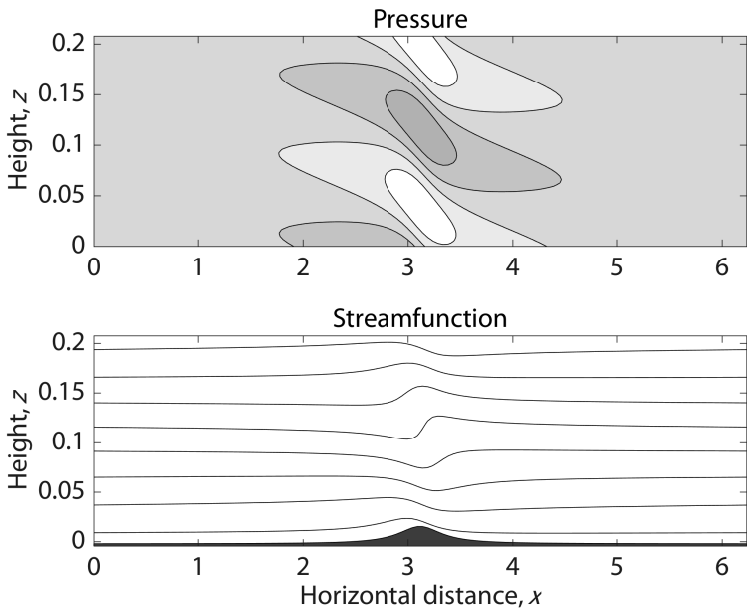


Fig. 7.18

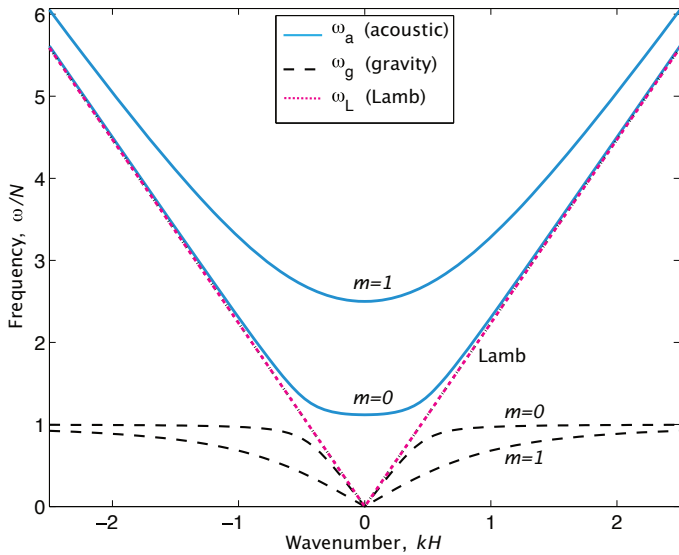
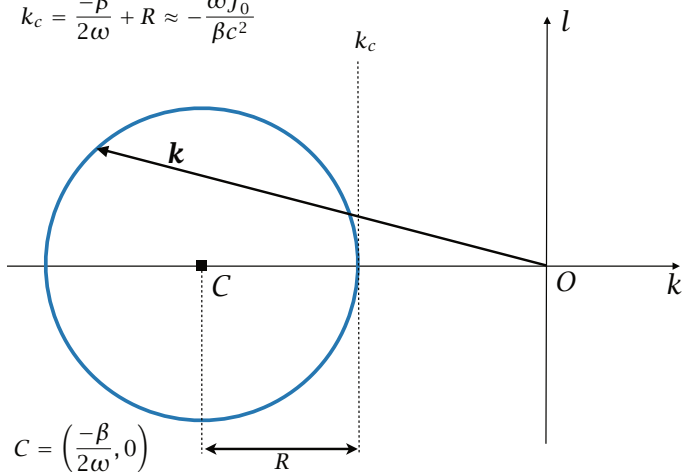


Fig. 7.19

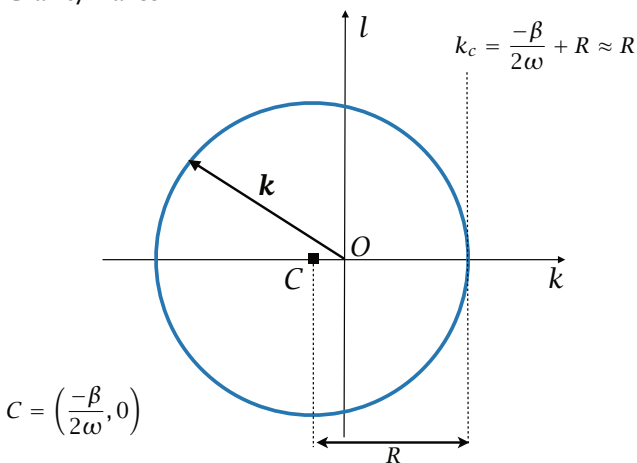
Rossby waves

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



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

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

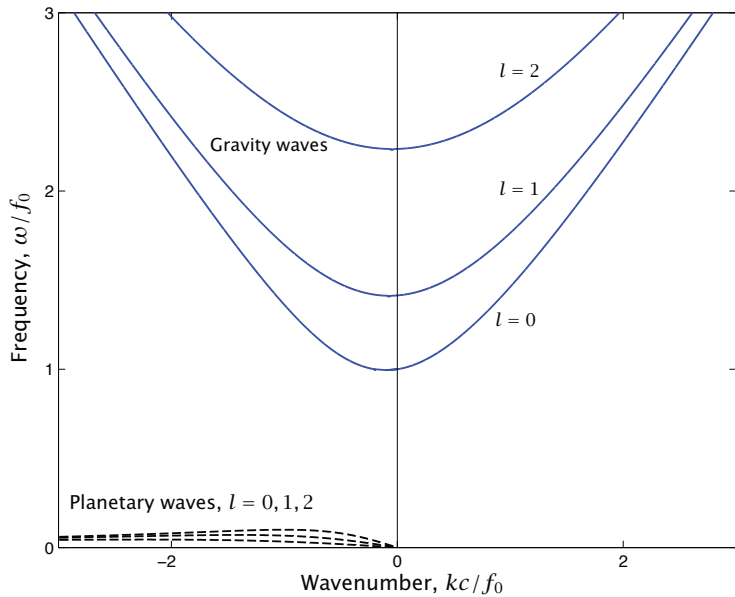


Fig. 8.2

Locus of wavenumbers of
given frequency ω

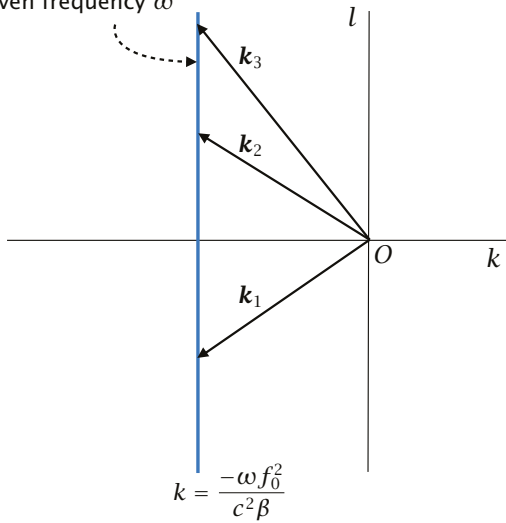


Fig. 8.3

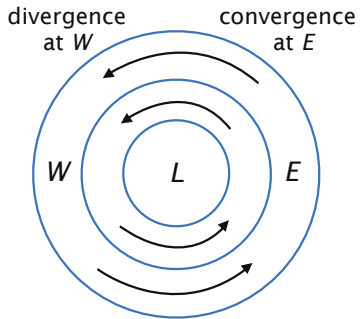
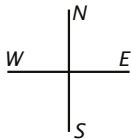
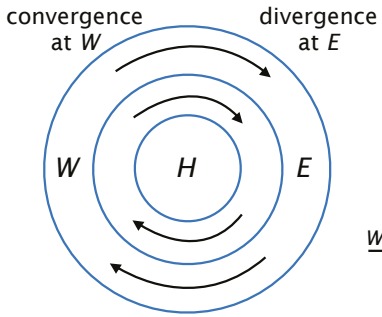


Fig. 8.4

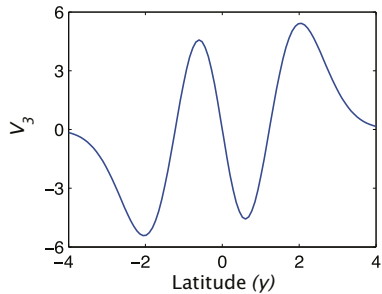
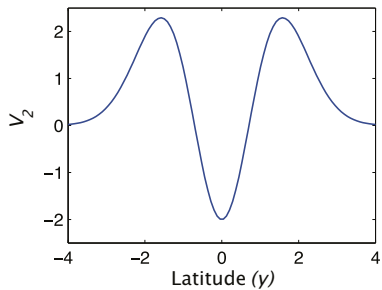
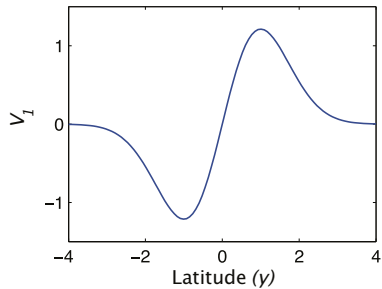
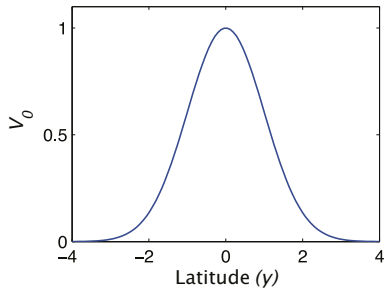


Fig. 8.5

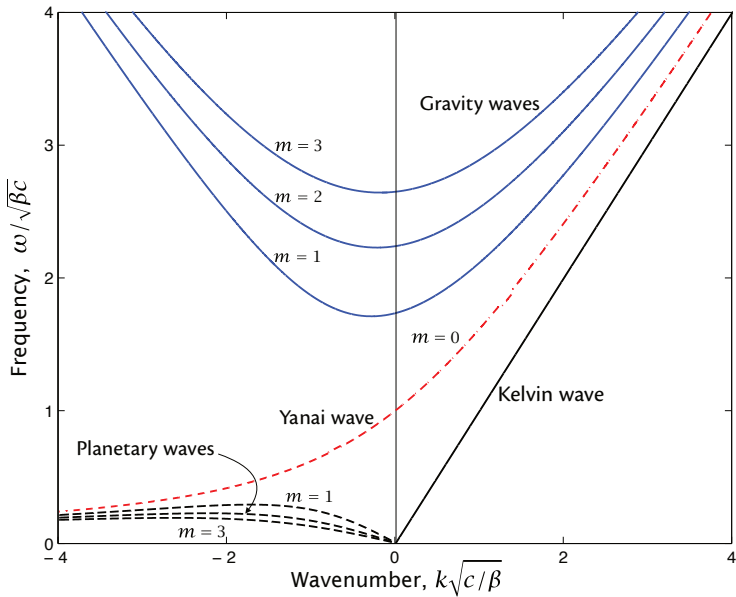


Fig. 8.6

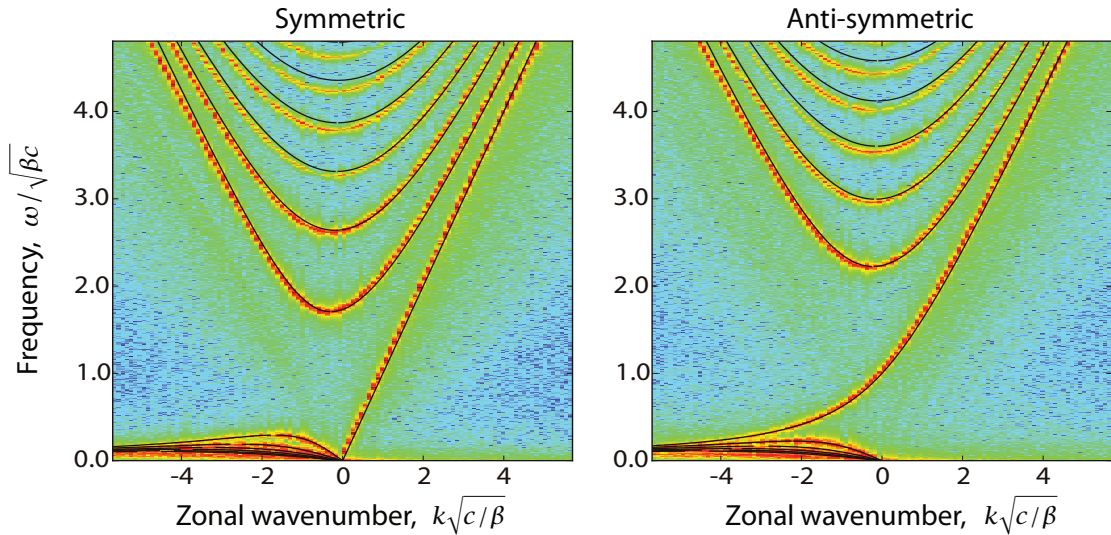


Fig. 8.7

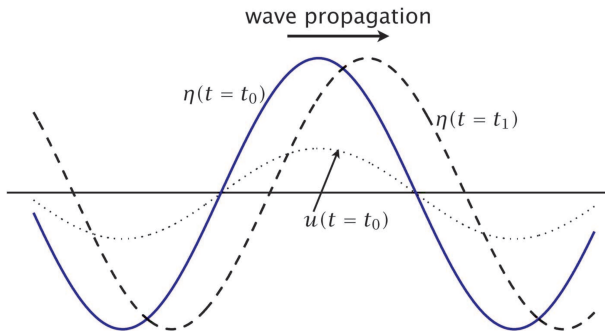


Fig. 8.8

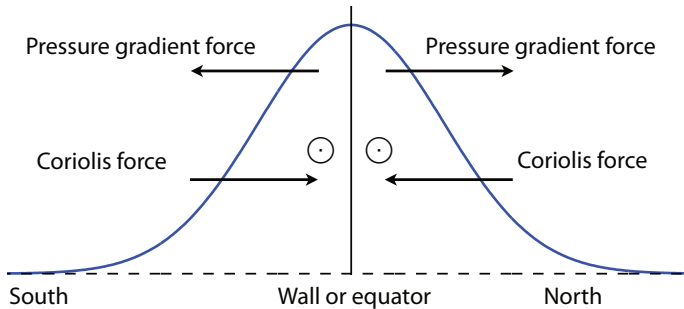


Fig. 8.9

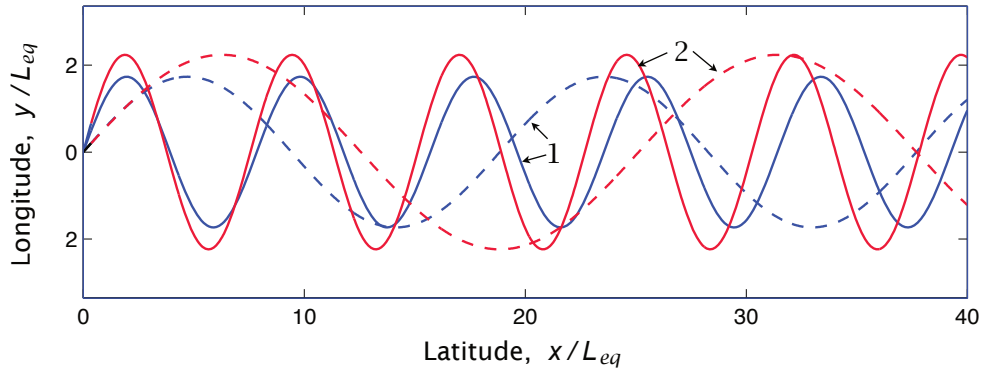


Fig. 8.10

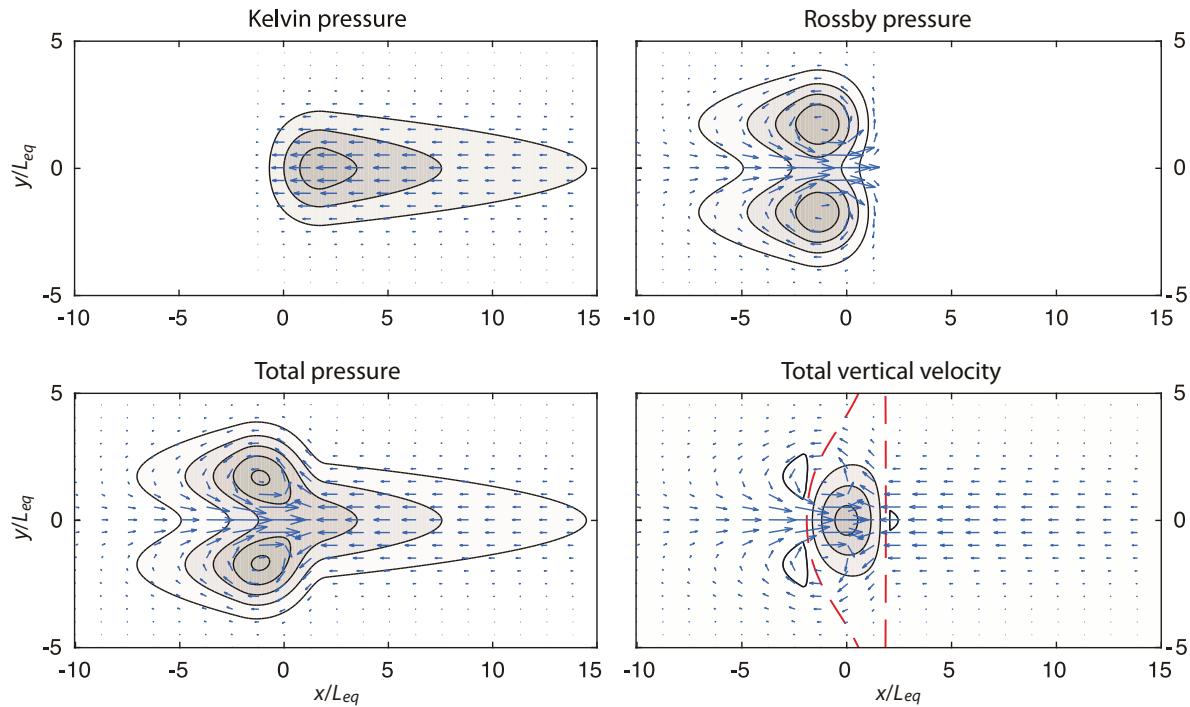


Fig. 8.11

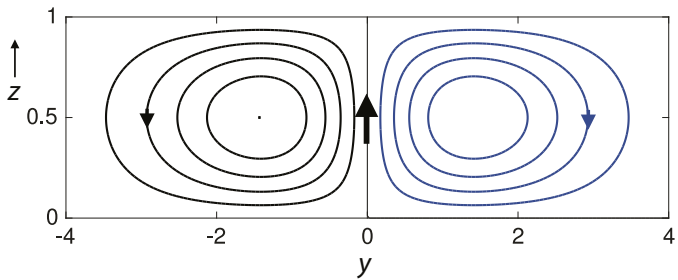
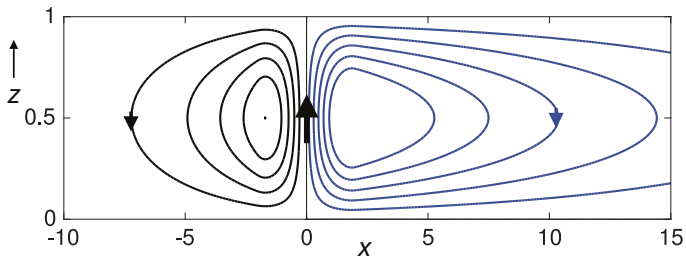


Fig. 8.12

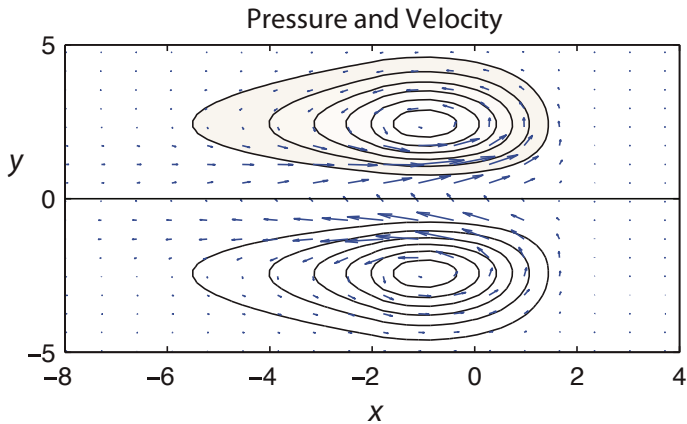
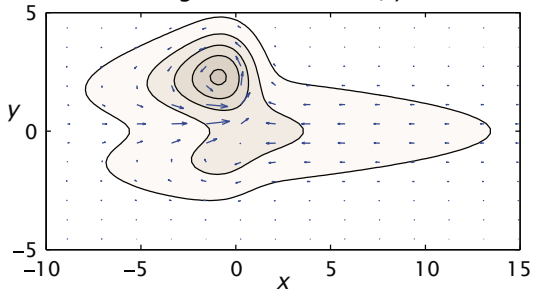


Fig. 8.13

Heating centred at $x = 0, y = 1$



Heating centred at $x = 0, y = 2$

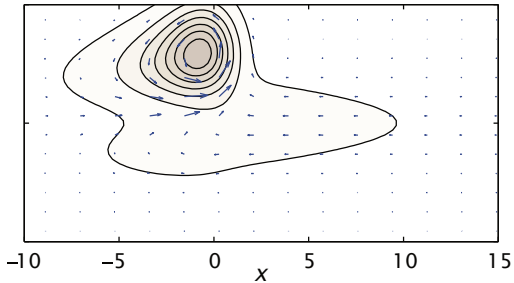
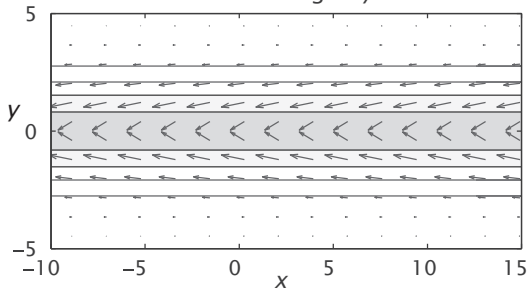


Fig. 8.14

Line of heating at $y = 0$



Line of heating at $y = 1$

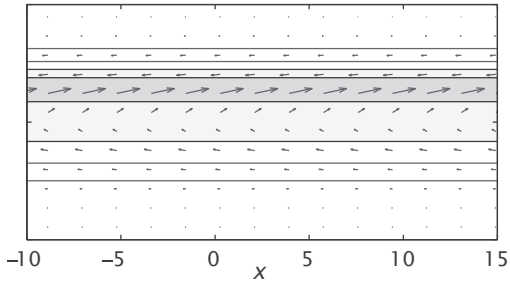
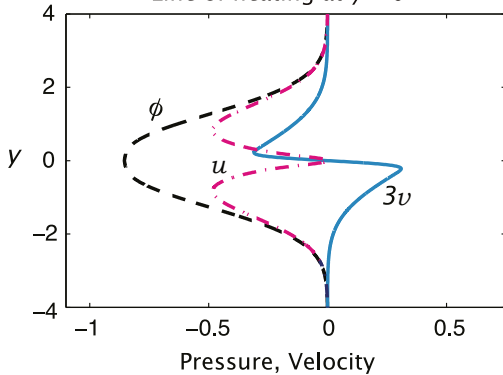


Fig. 8.15

Line of heating at $y = 0$



Line of heating at $y = 1$

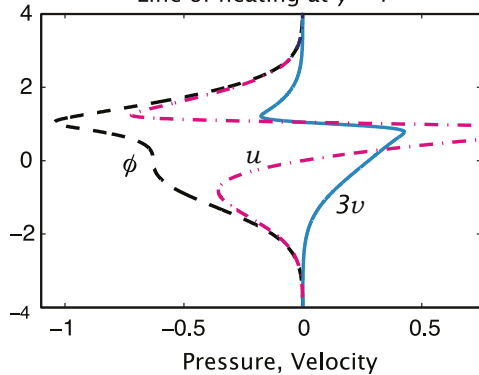


Fig. 8.16

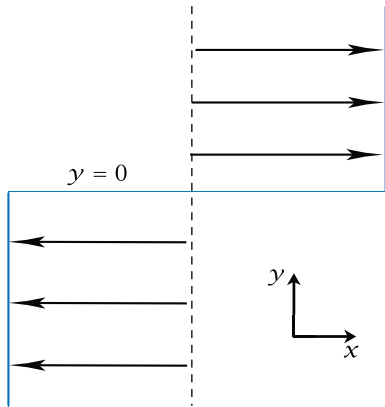


Fig. 9.1

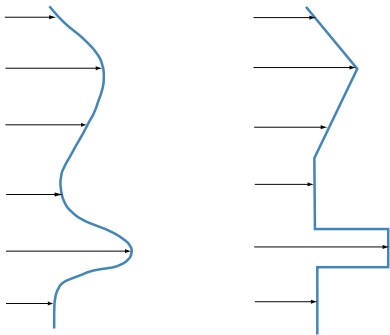


Fig. 9.2

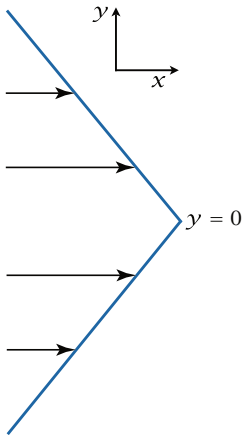


Fig. 9.3

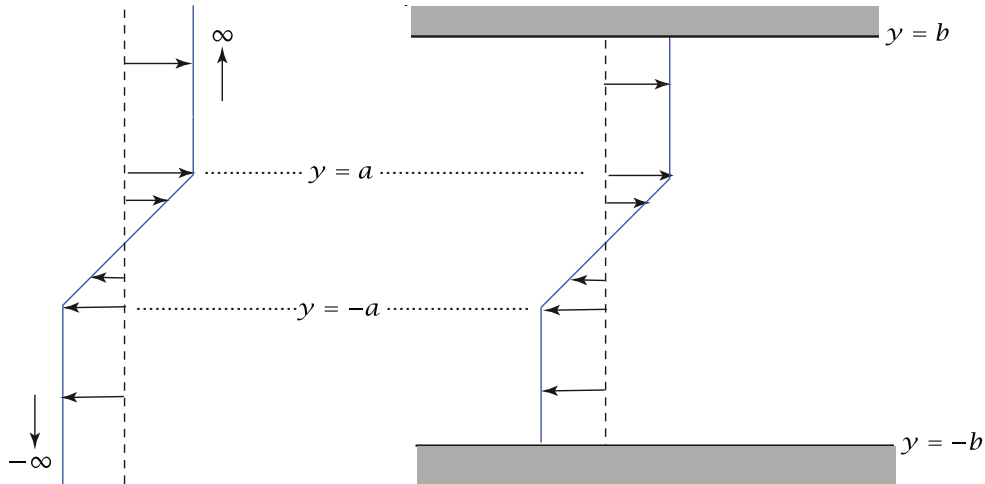


Fig. 9.4

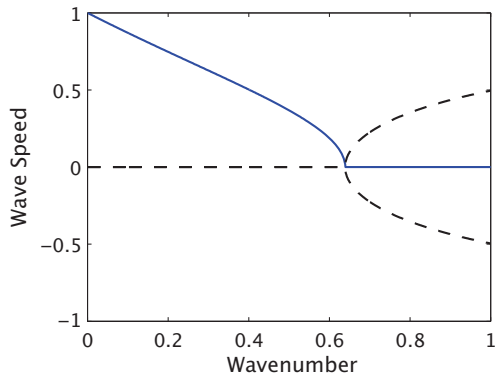
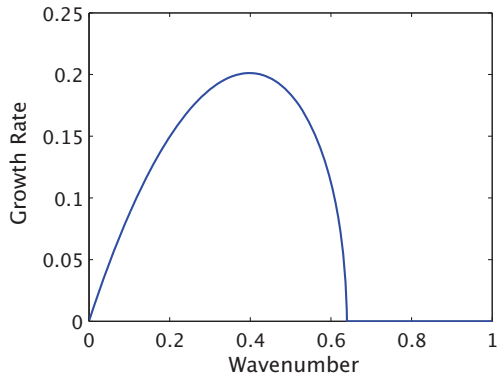


Fig. 9.5

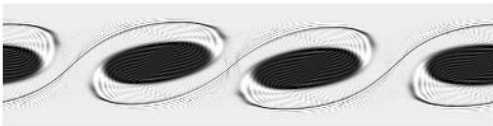


Fig. 9.6

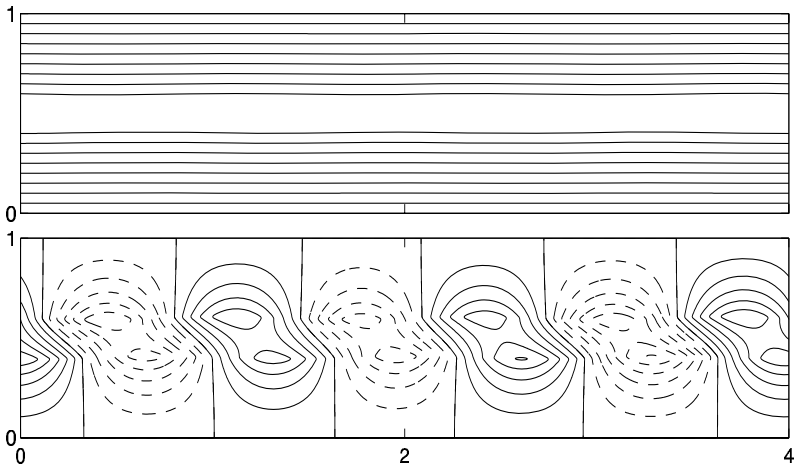


Fig. 9.7

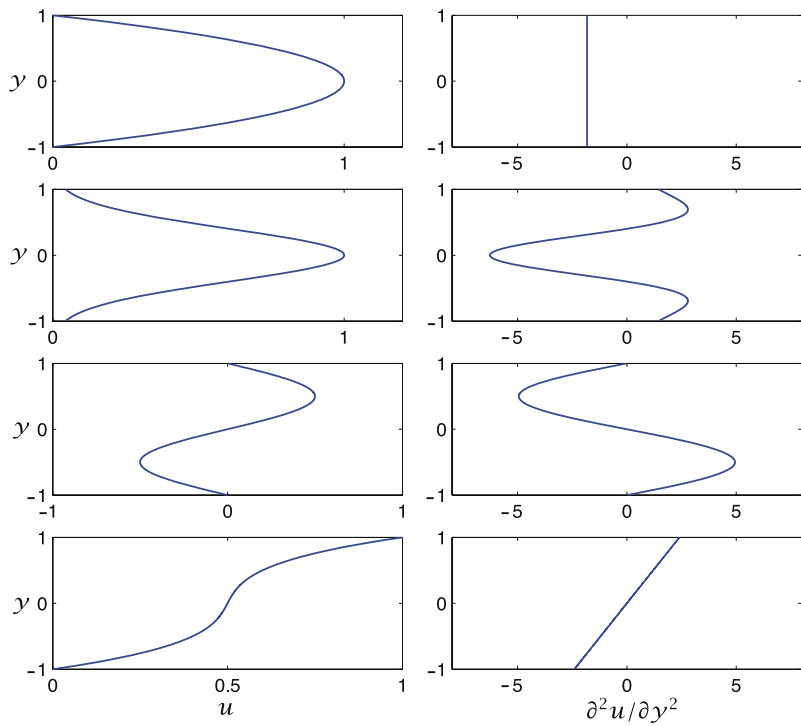


Fig. 9.8

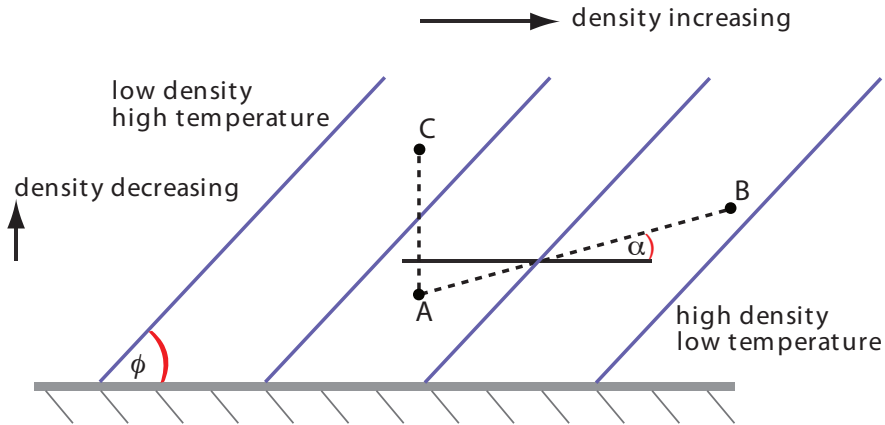


Fig. 9.9

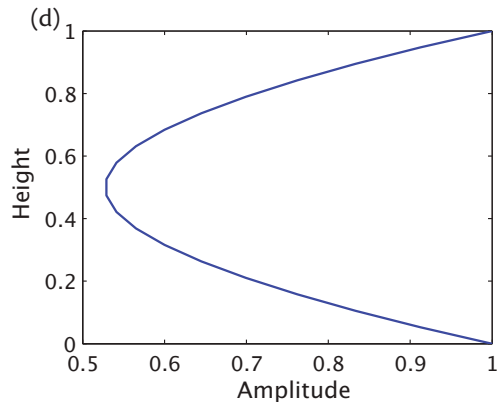
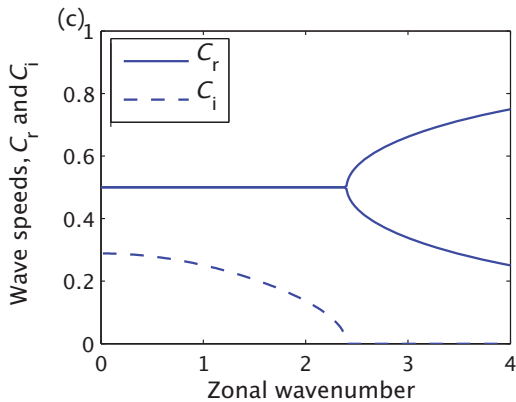
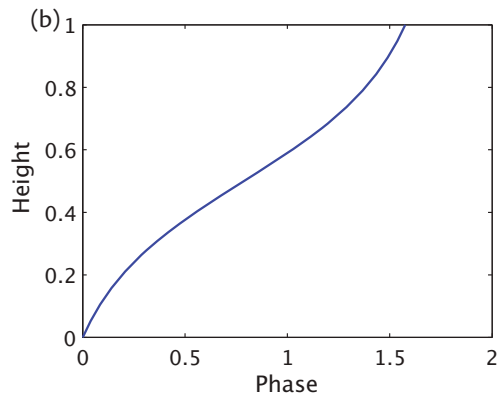
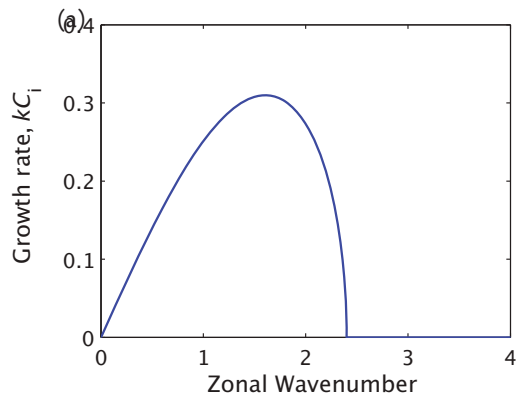


Fig. 9.10

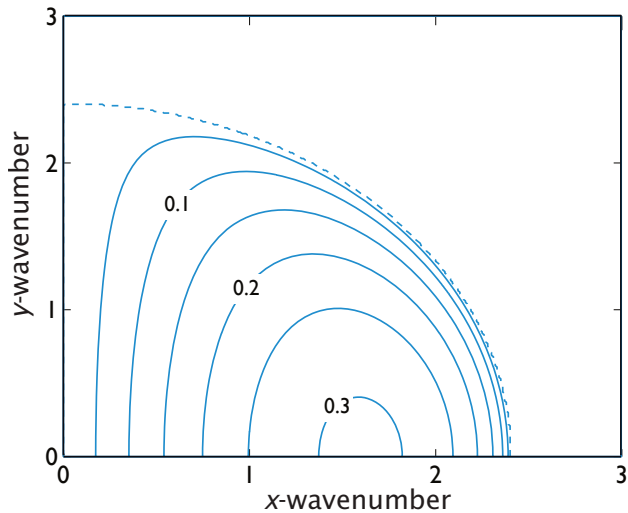


Fig. 9.11

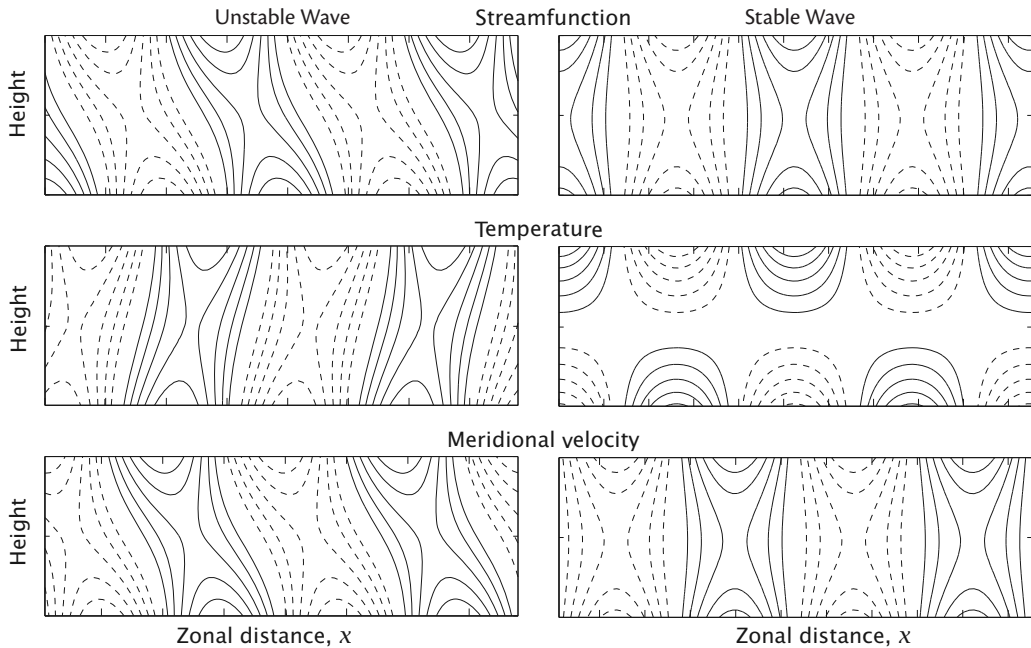


Fig. 9.12

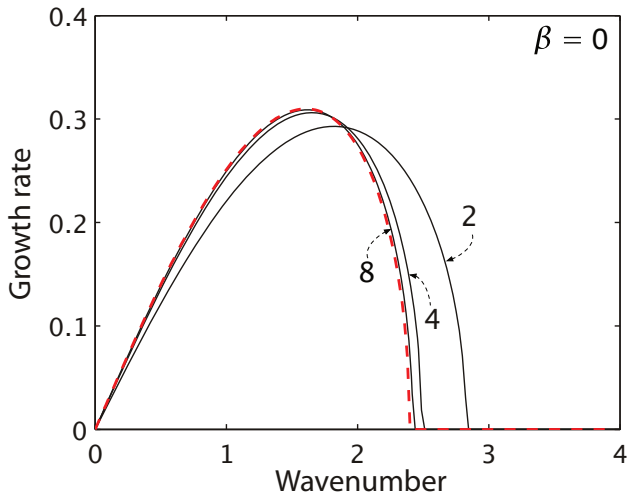


Fig. 9.13

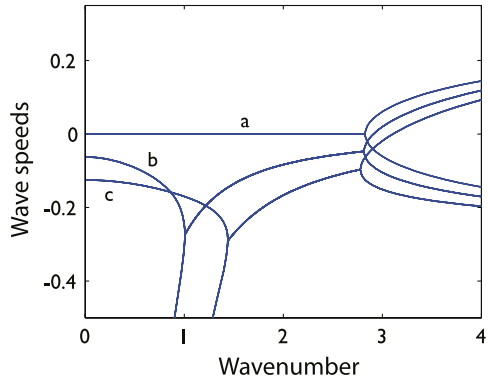
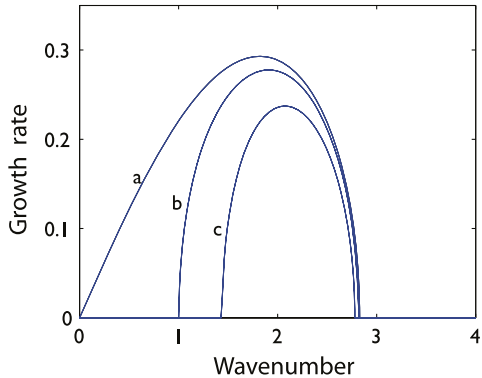


Fig. 9.14

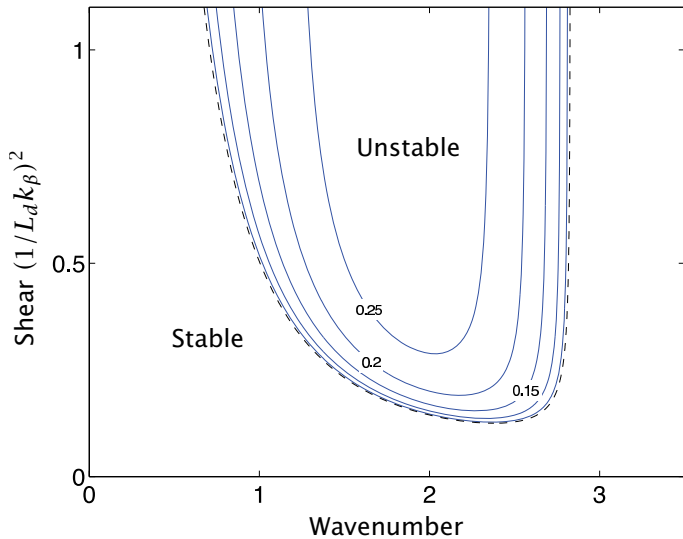


Fig. 9.15

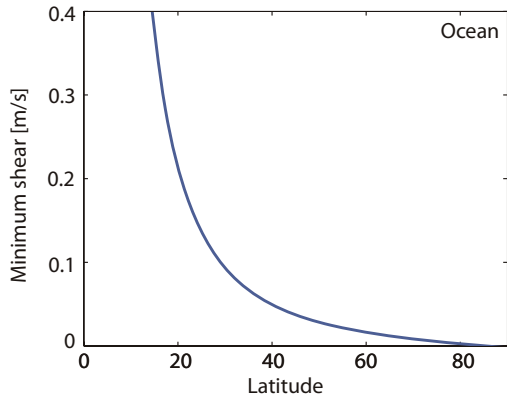
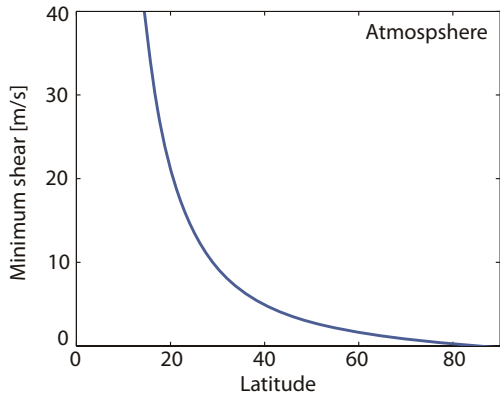


Fig. 9.16

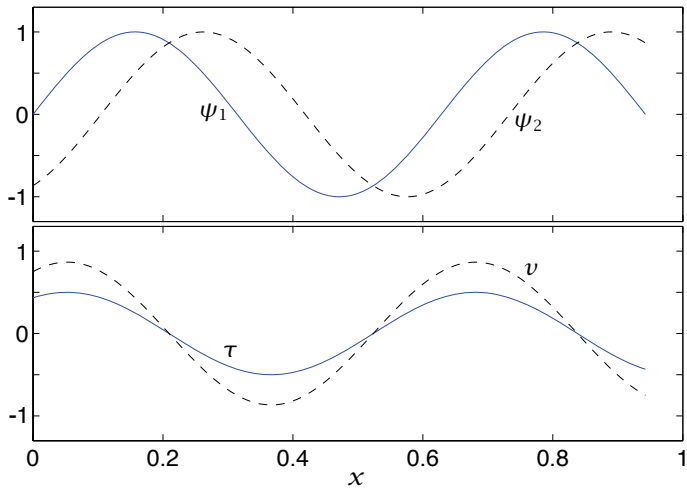


Fig. 9.17

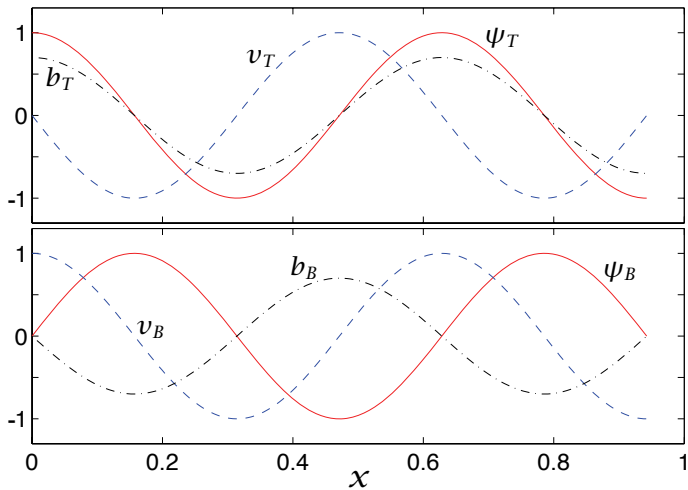


Fig. 9.18

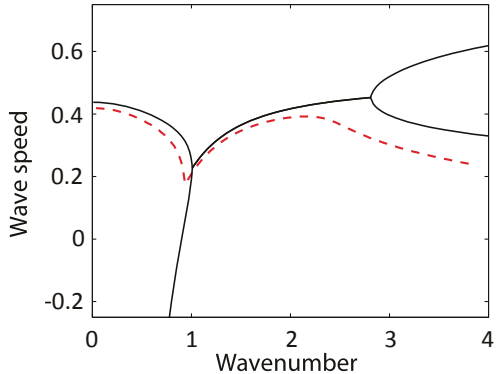
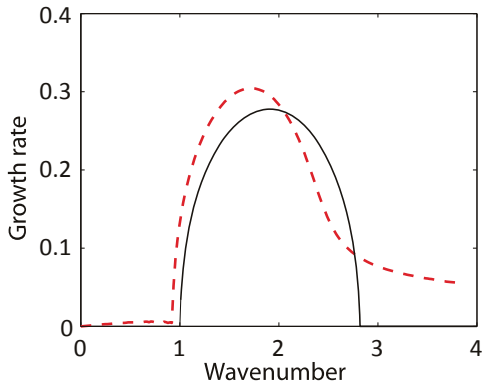


Fig. 9.19

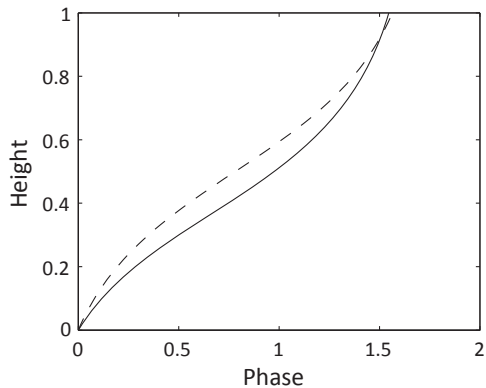
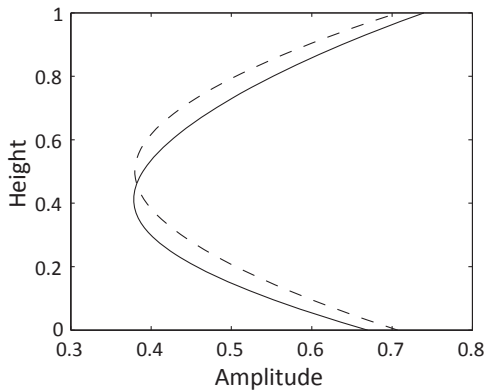


Fig. 9.20

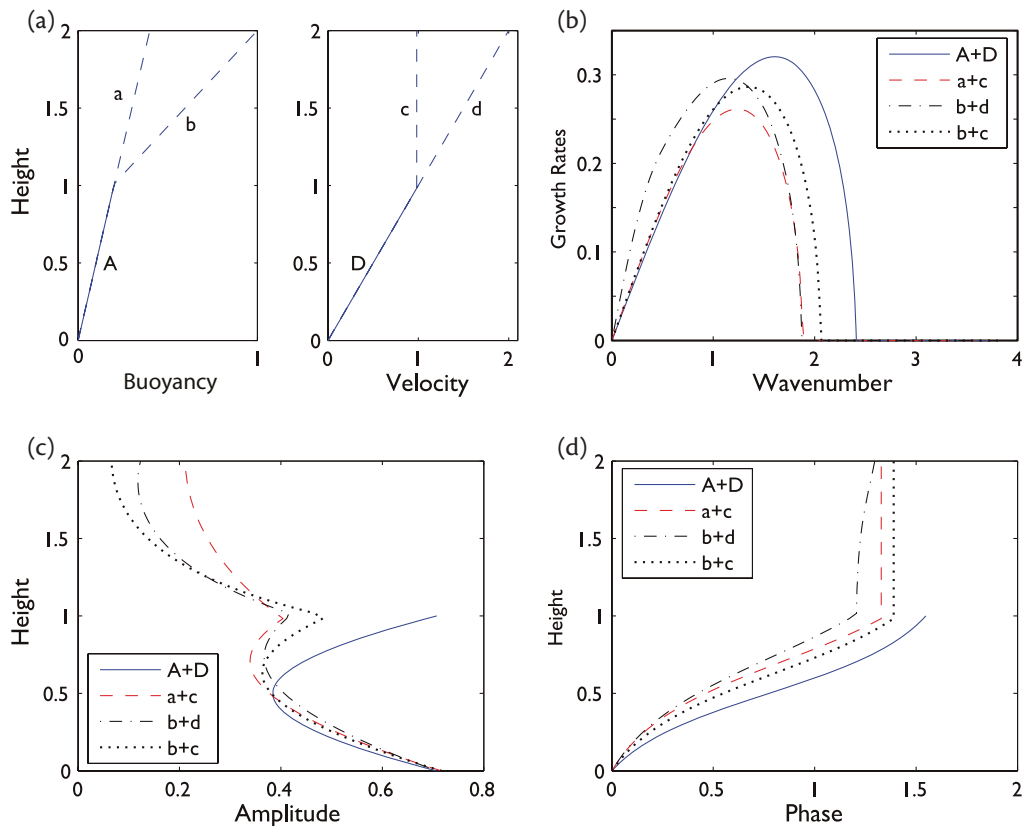


Fig. 9.21

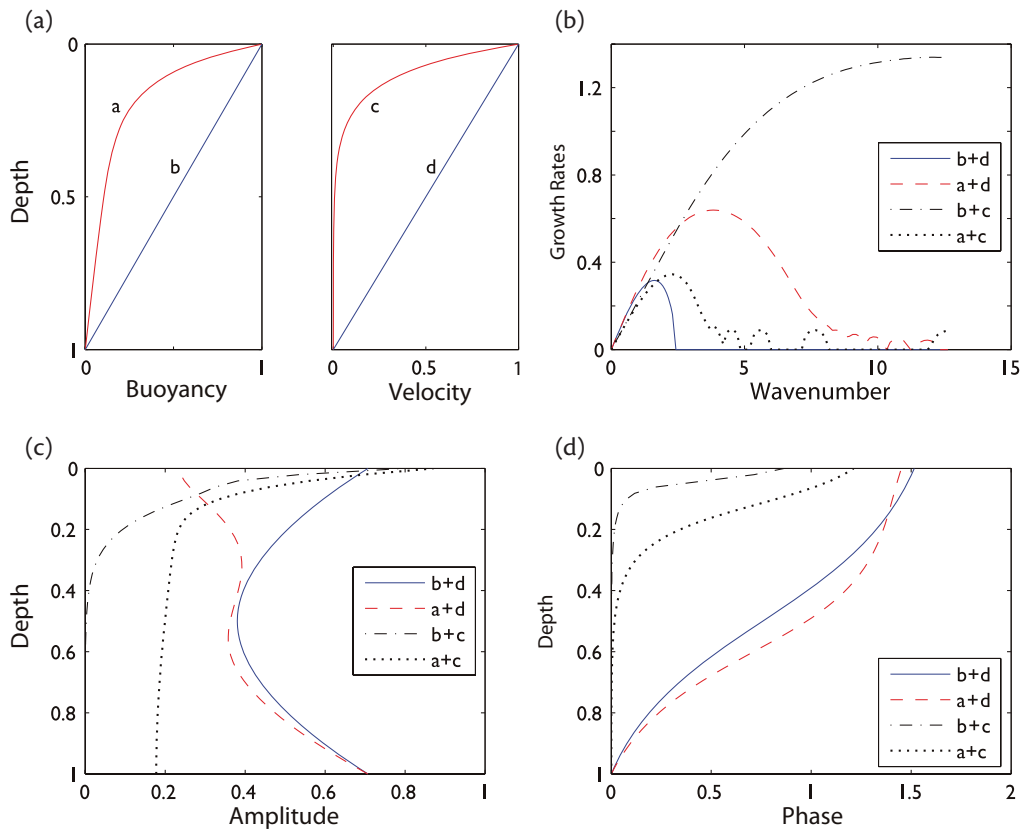


Fig. 9.22

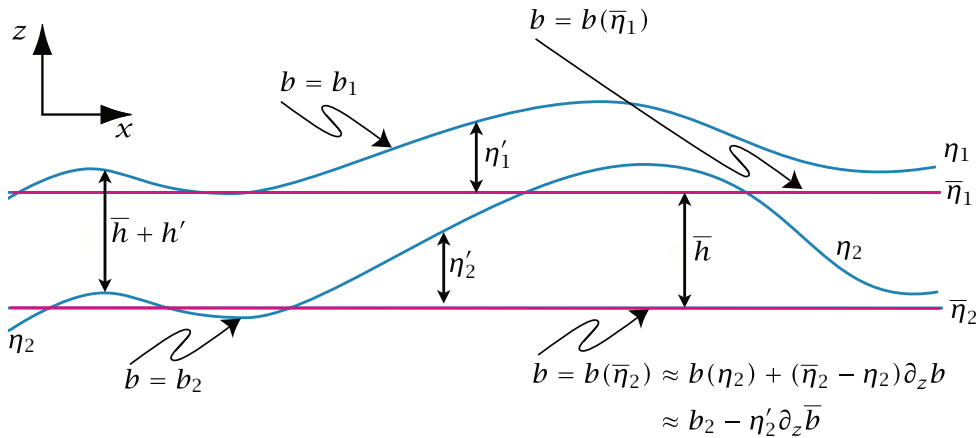


Fig. 10.1

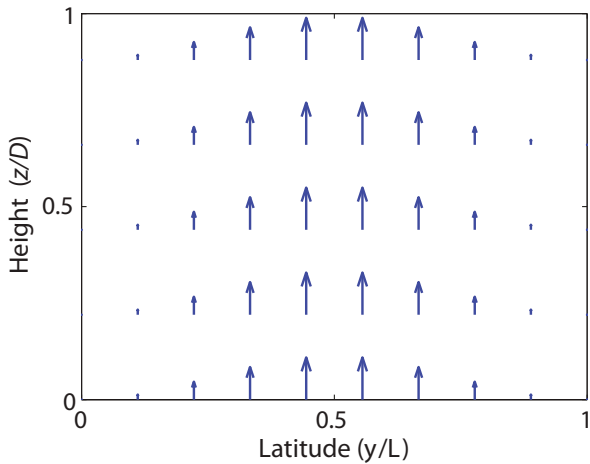


Fig. 10.2

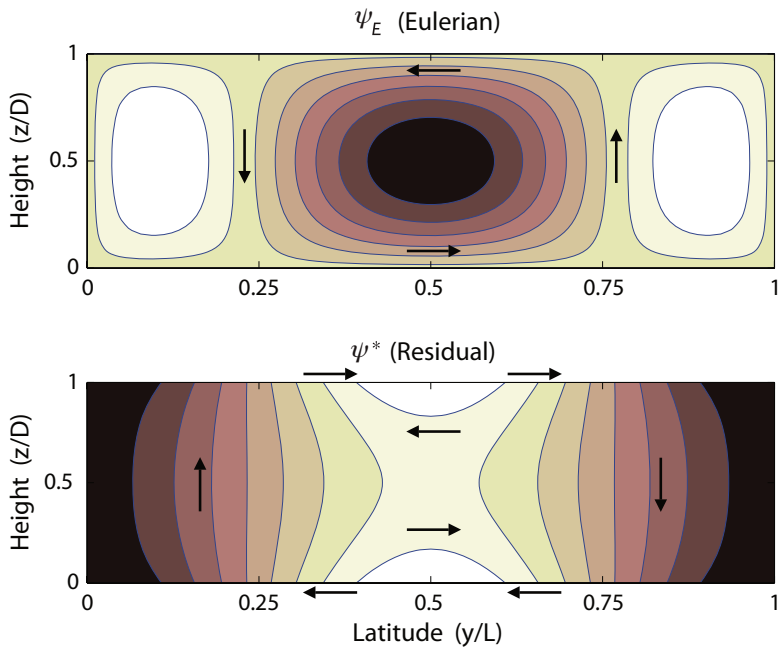


Fig. 10.3

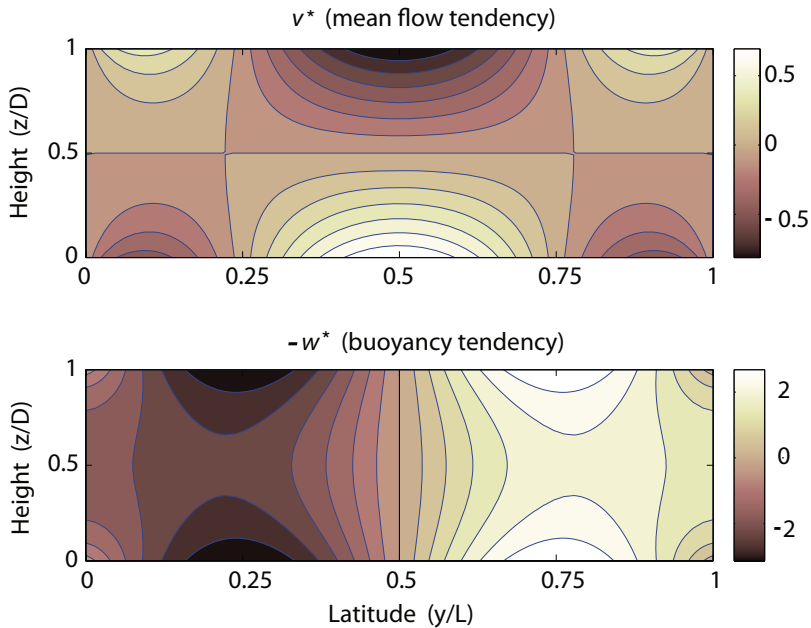
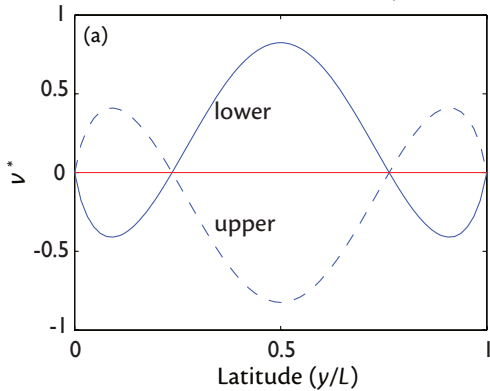


Fig. 10.4

Zonal flow tendency



Buoyancy tendency

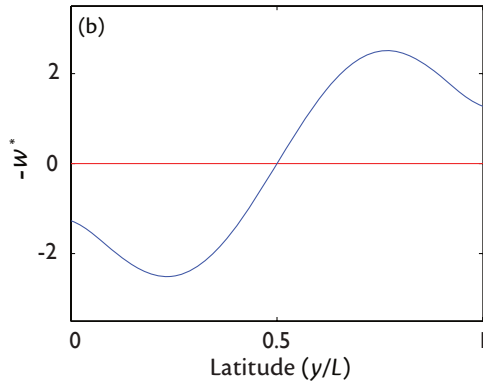


Fig. 10.5

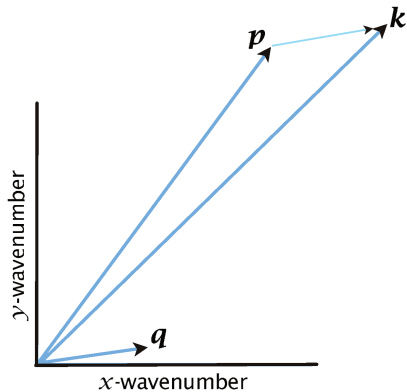
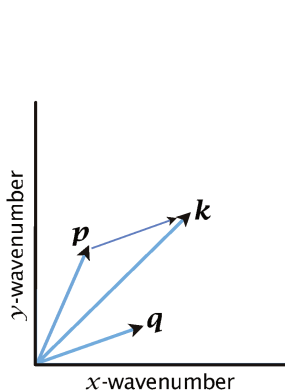


Fig. 11.1

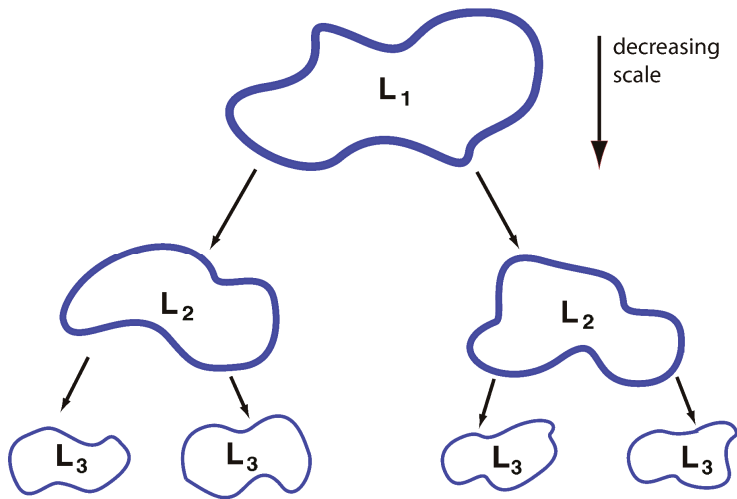


Fig. 11.2

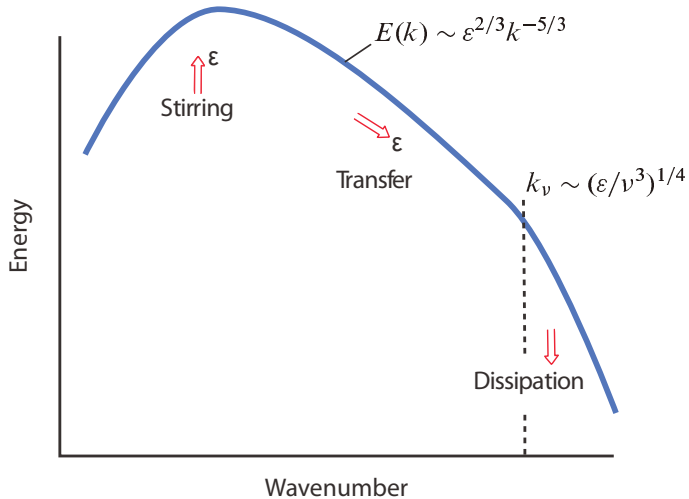


Fig. 11.3

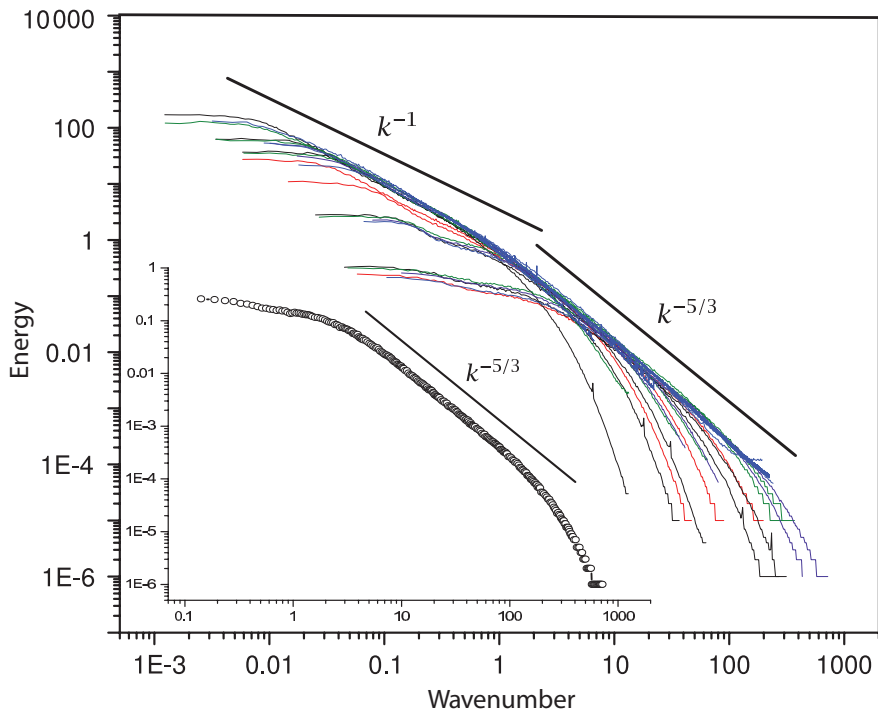


Fig. 11.4

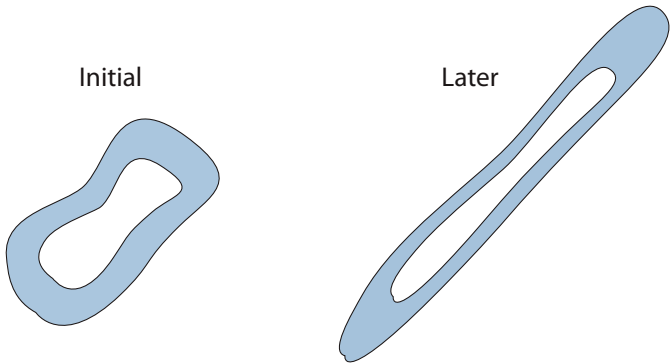


Fig. 11.5

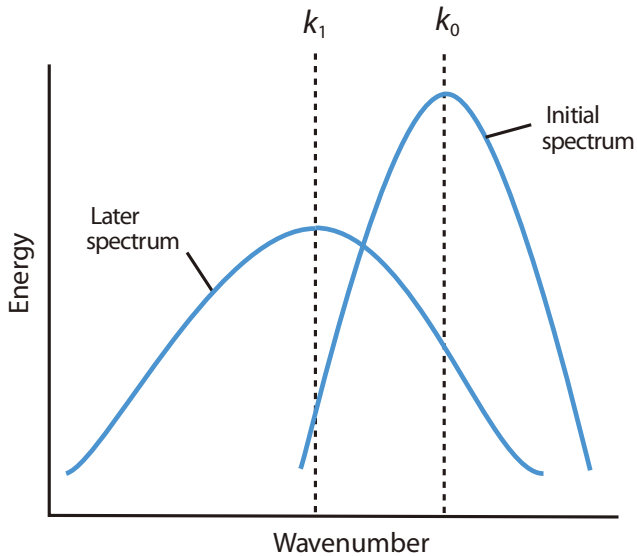


Fig. 11.6

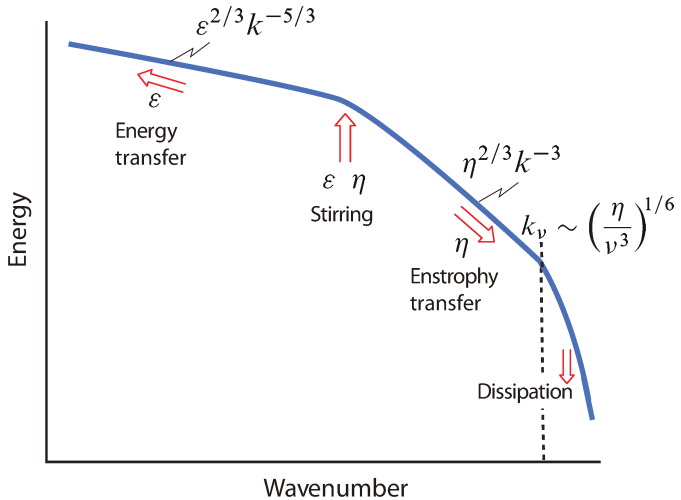


Fig. 11.7

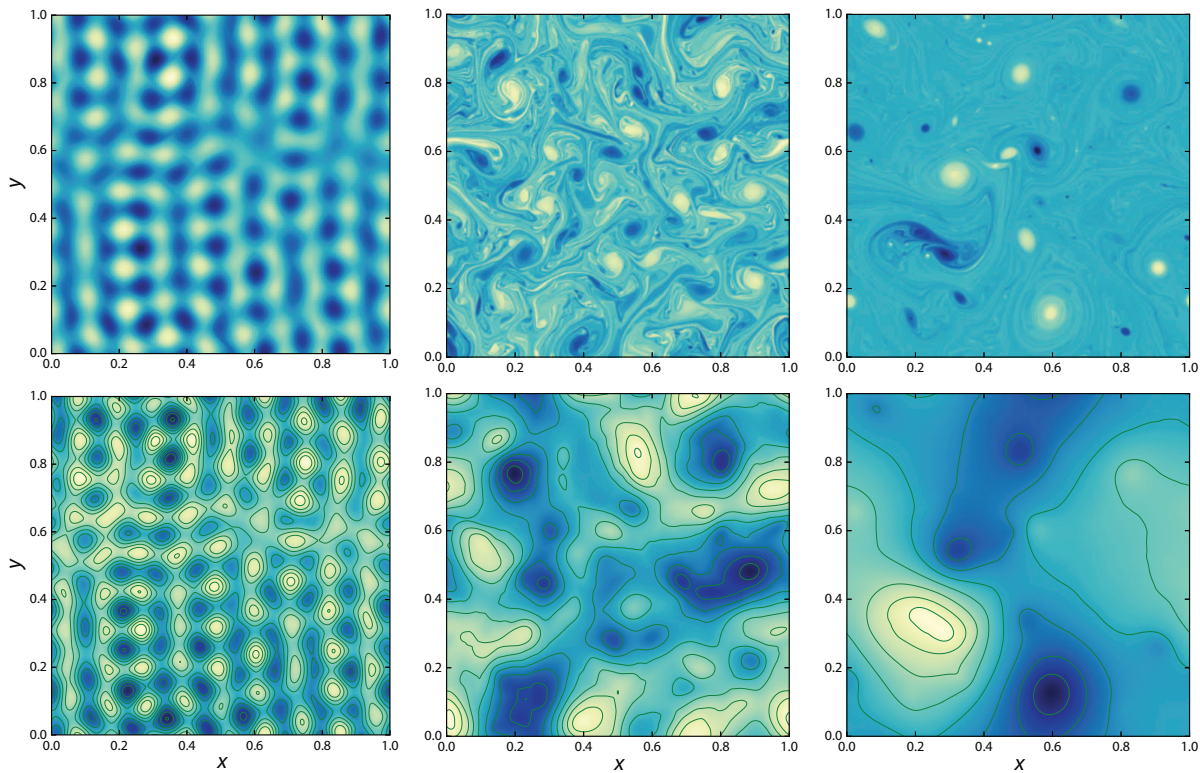


Fig. 11.8

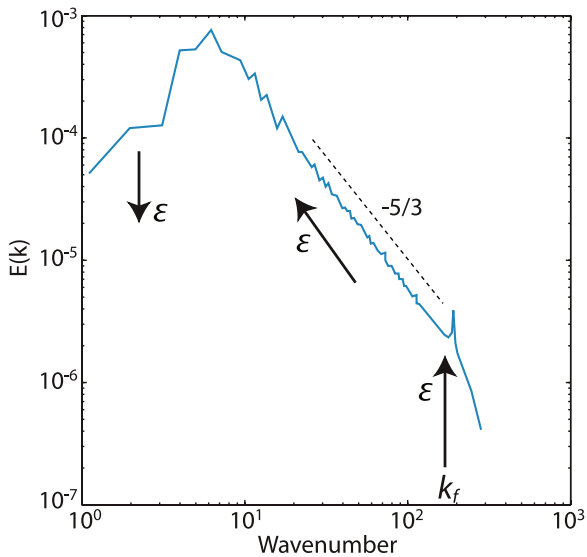


Fig. 11.9

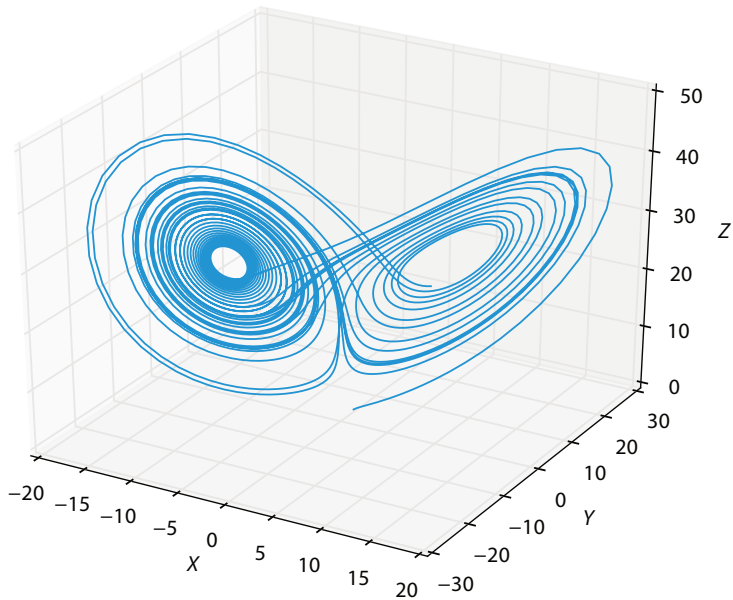


Fig. 11.10

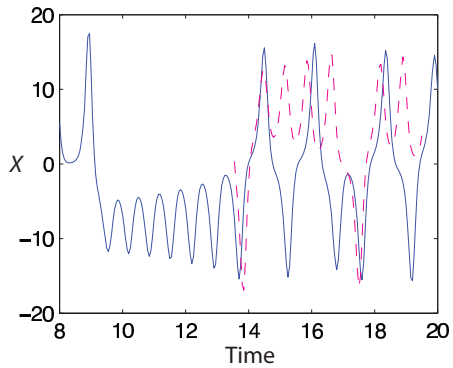
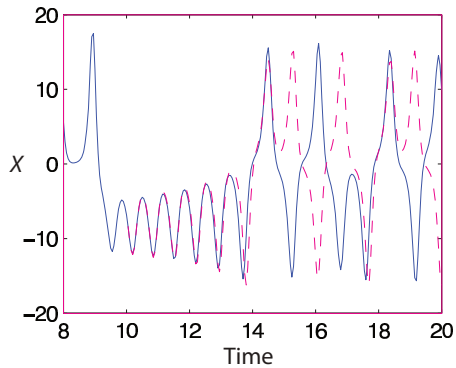


Fig. 11.11

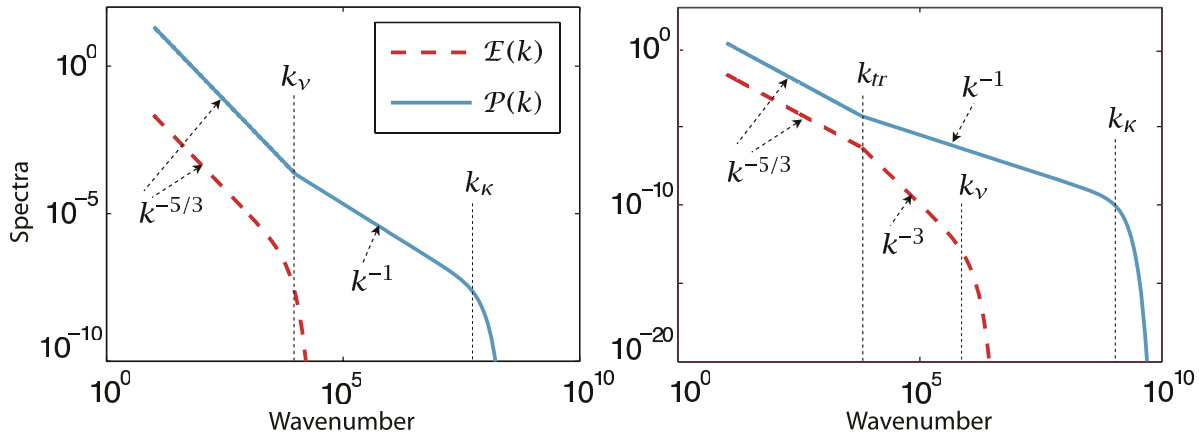


Fig. 11.12

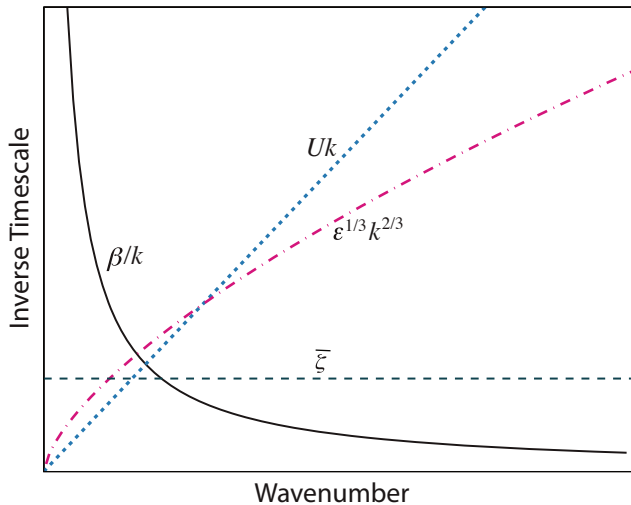


Fig. 12.1

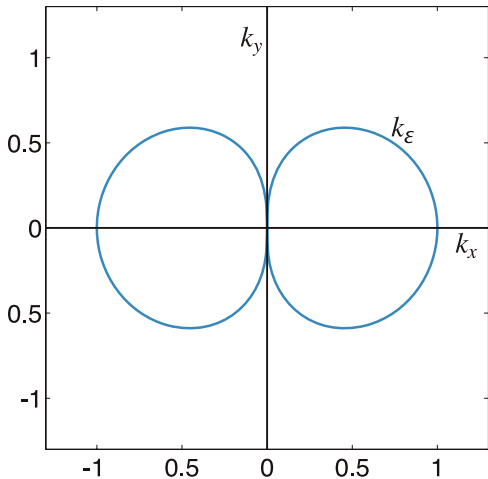


Fig. 12.2

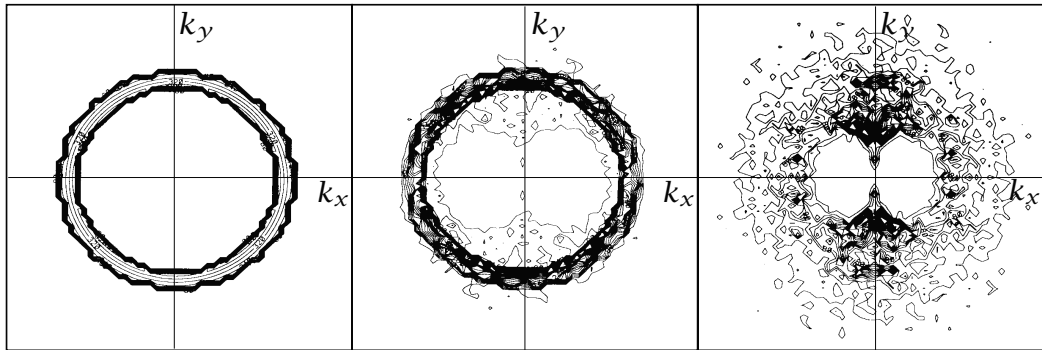


Fig. 12.3

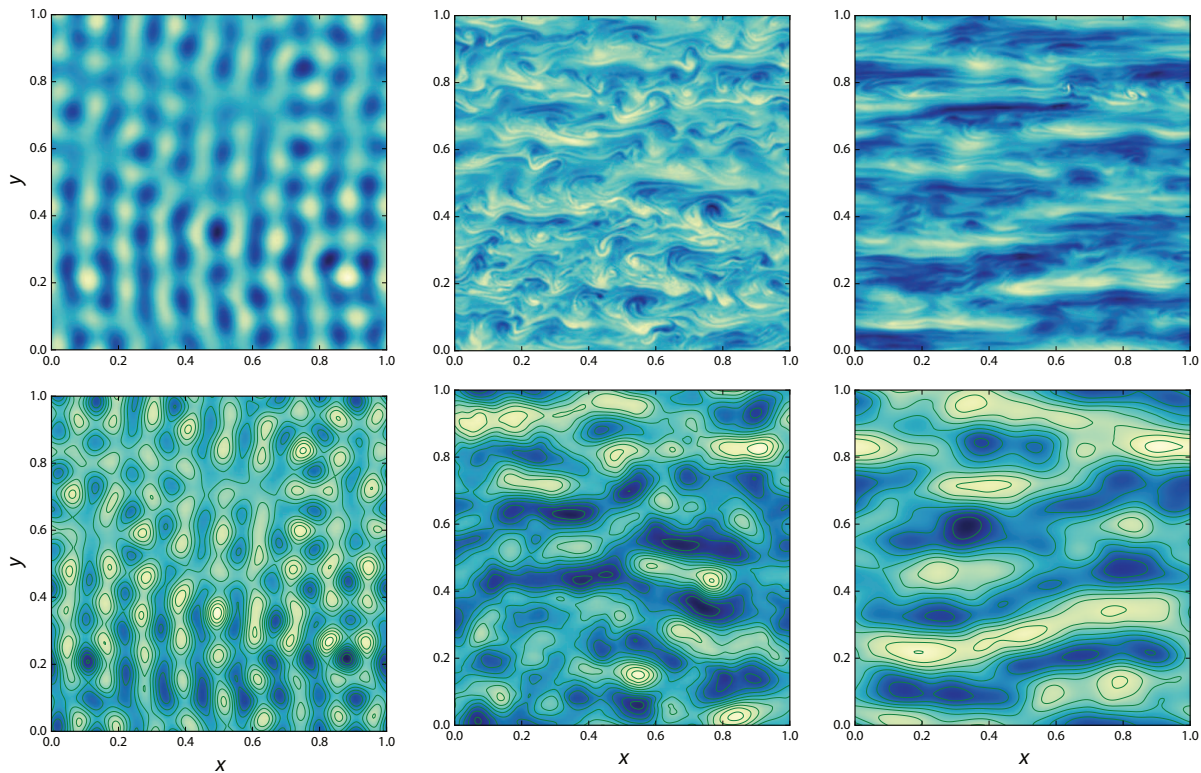


Fig. 12.4

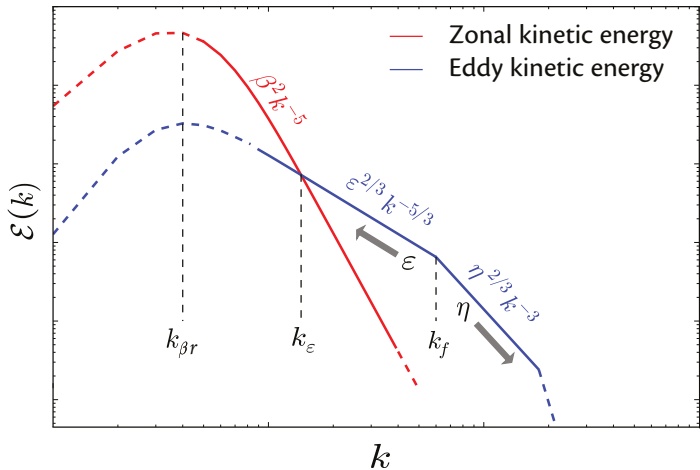


Fig. 12.5

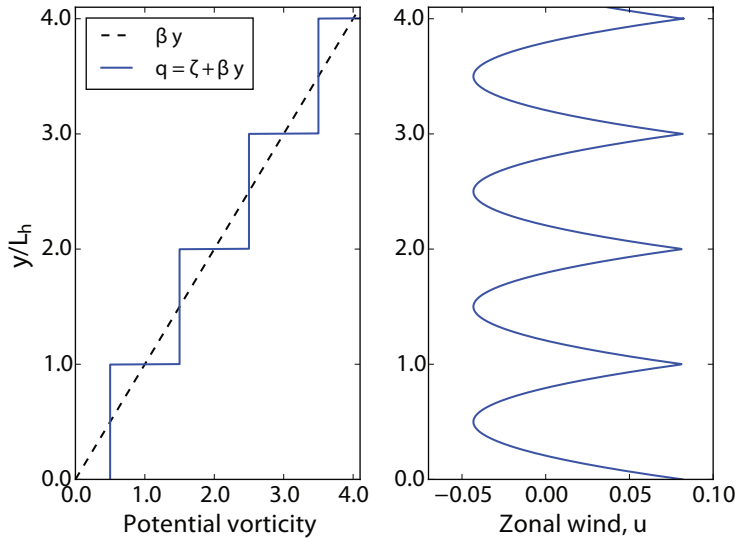


Fig. 12.6

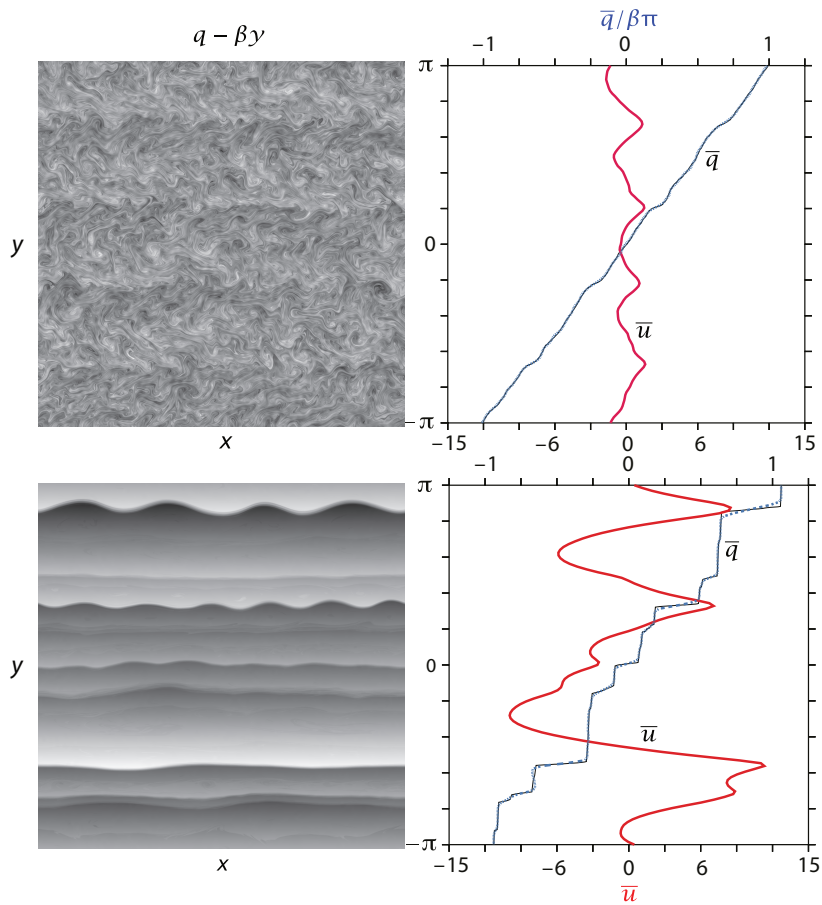


Fig. 12.7

wind or solar input

—●— enstrophy flux
—●— energy flux

baroclinic energy

scattering into
3D turbulence

k_d

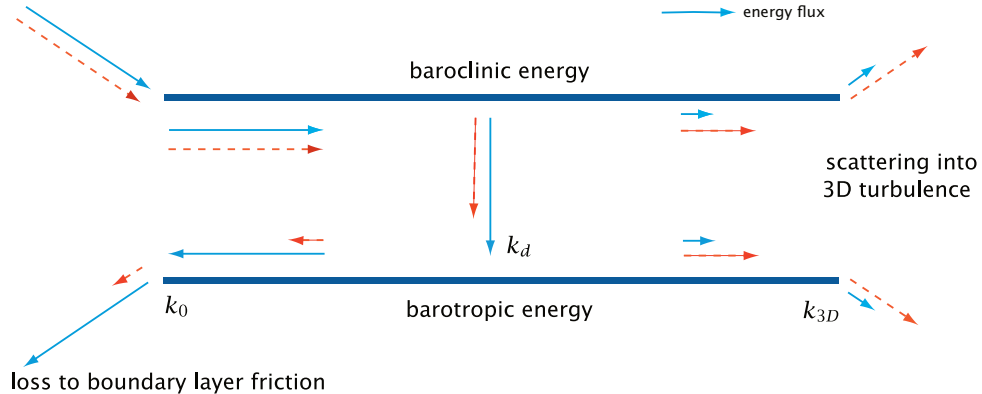
barotropic energy

k_0

k_{3D}

loss to boundary layer friction

Fig. 12.8



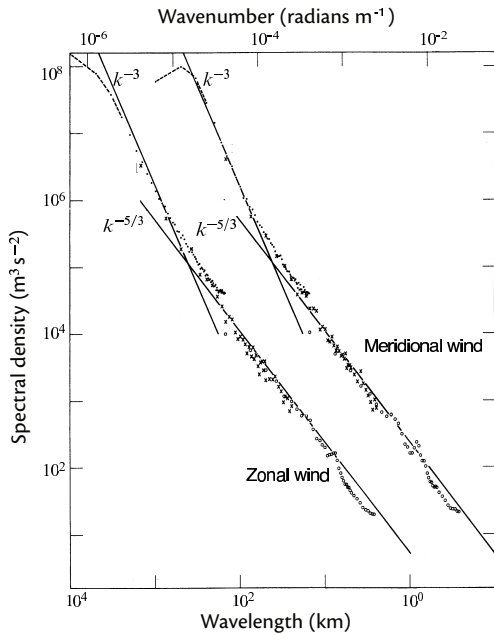


Fig. 12.9

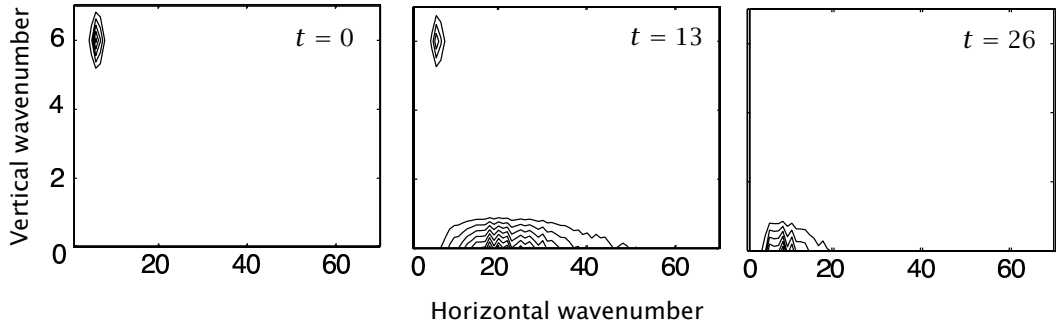


Fig. 12.10

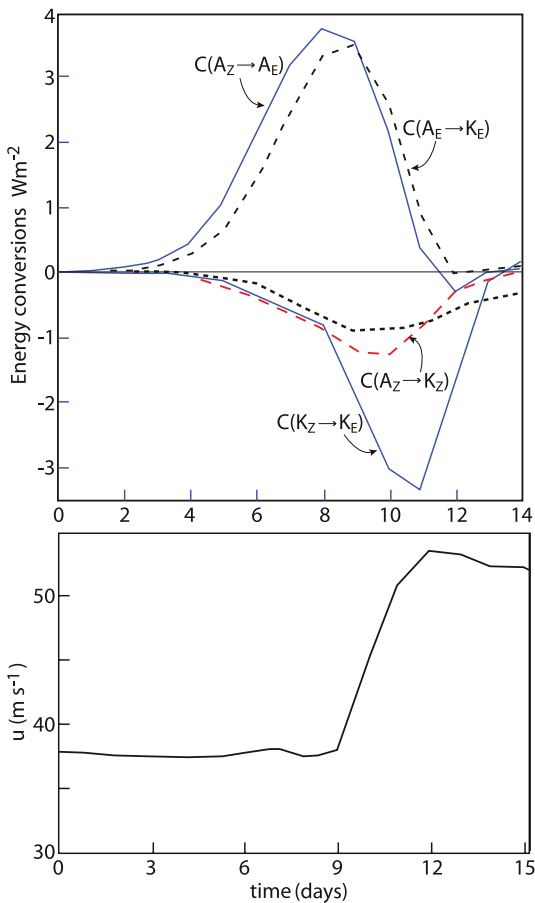


Fig. 12.11

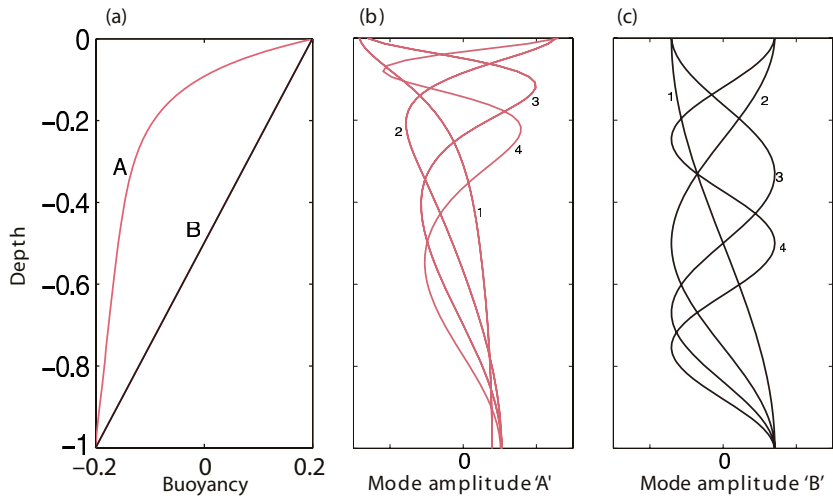


Fig. 12.12

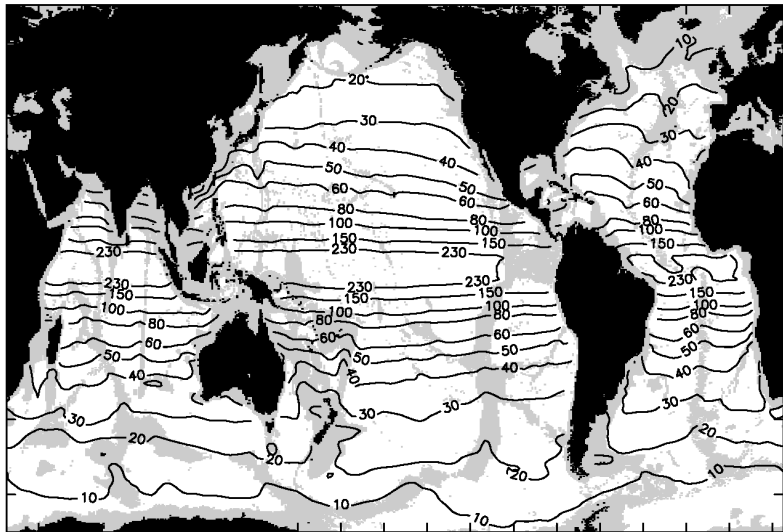


Fig. 12.13

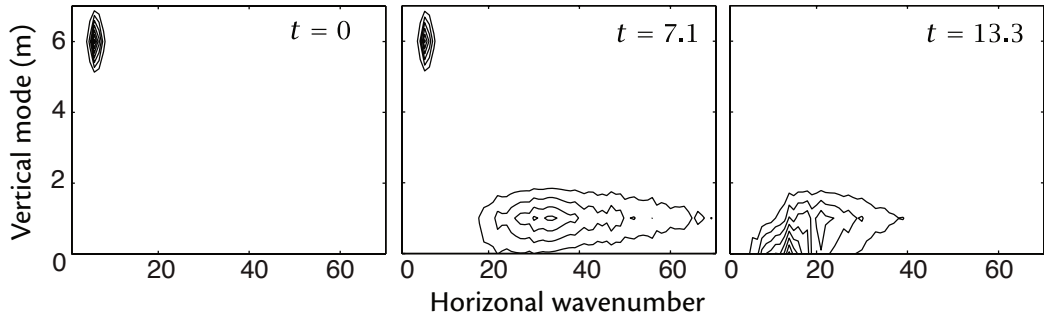


Fig. 12.14

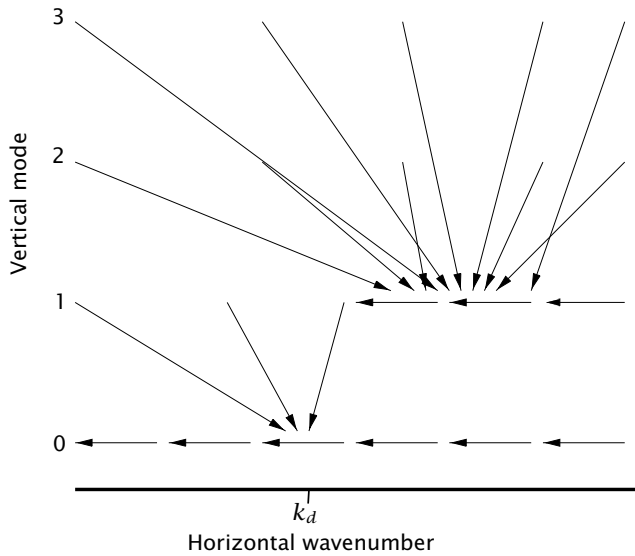


Fig. 12.15

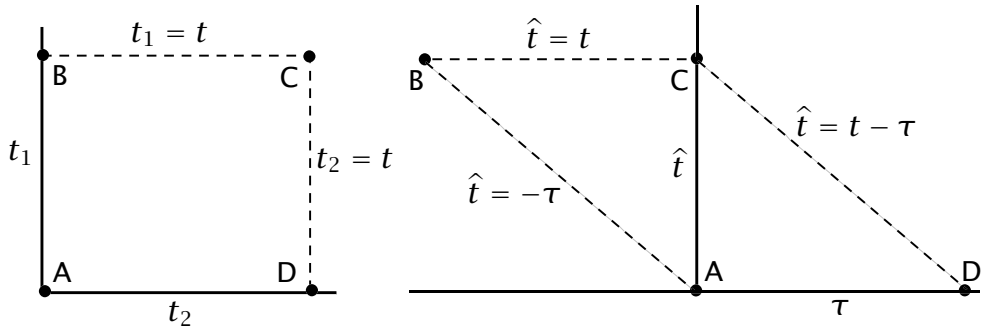


Fig. 13.1

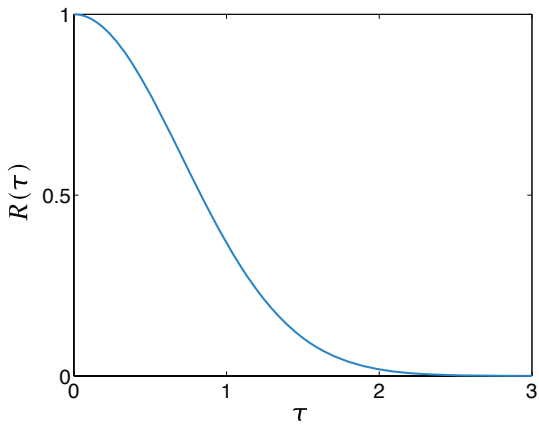


Fig. 13.2

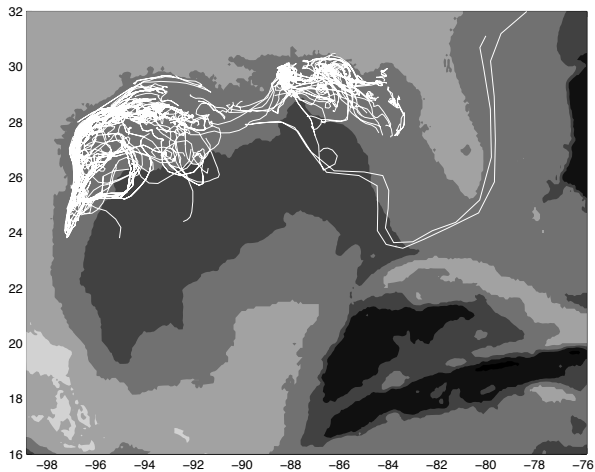


Fig. 13.3

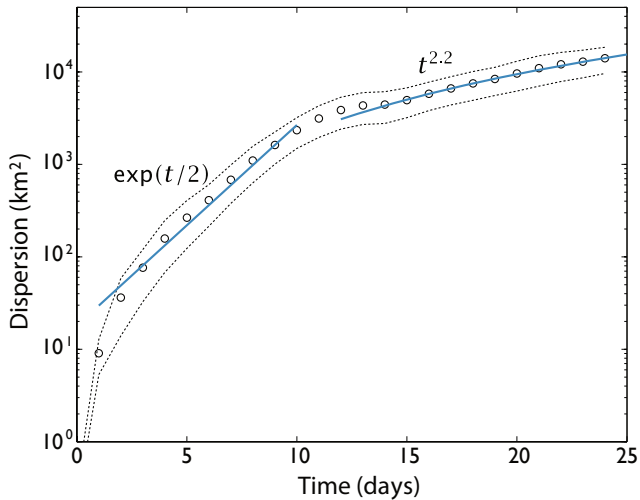


Fig. 13.4

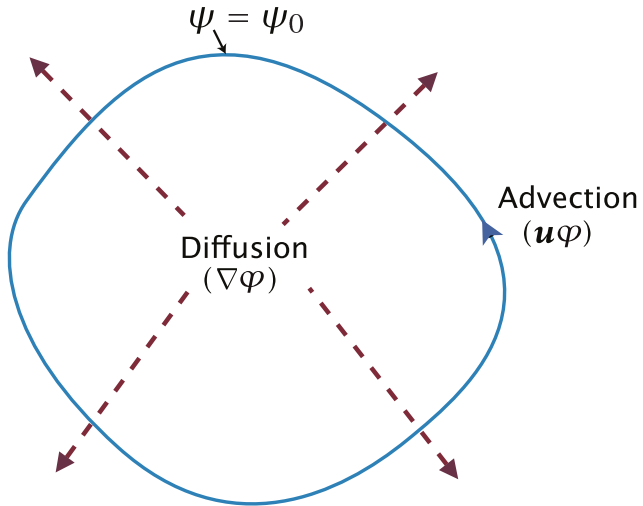


Fig. 13.5

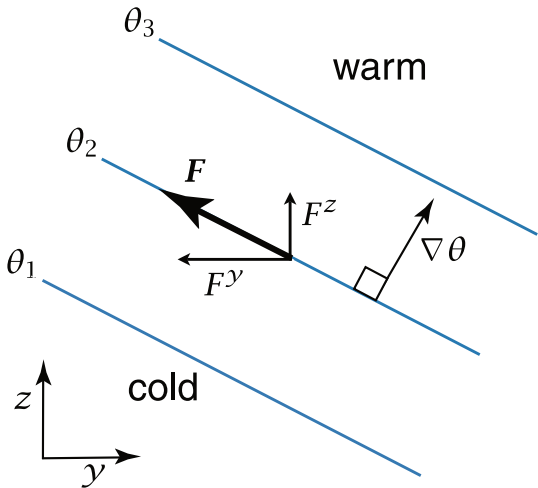


Fig. 13.6

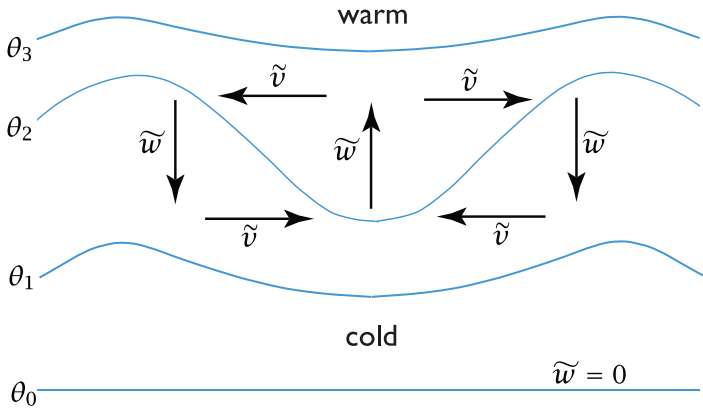


Fig. 13.7

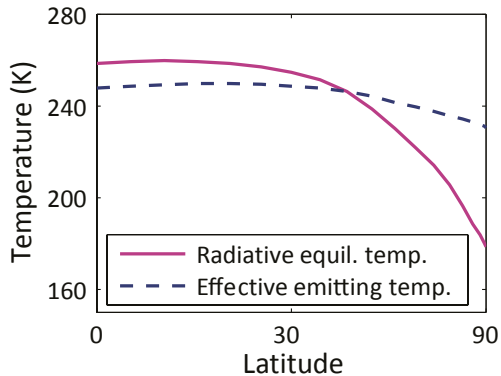
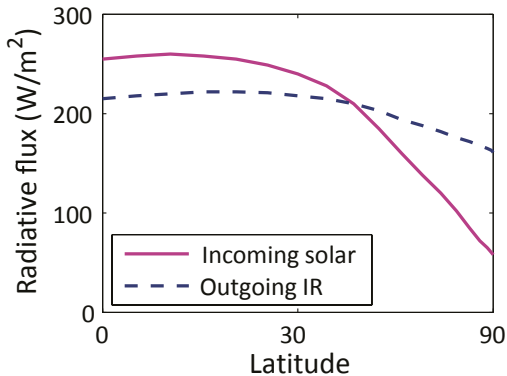


Fig. 14.1

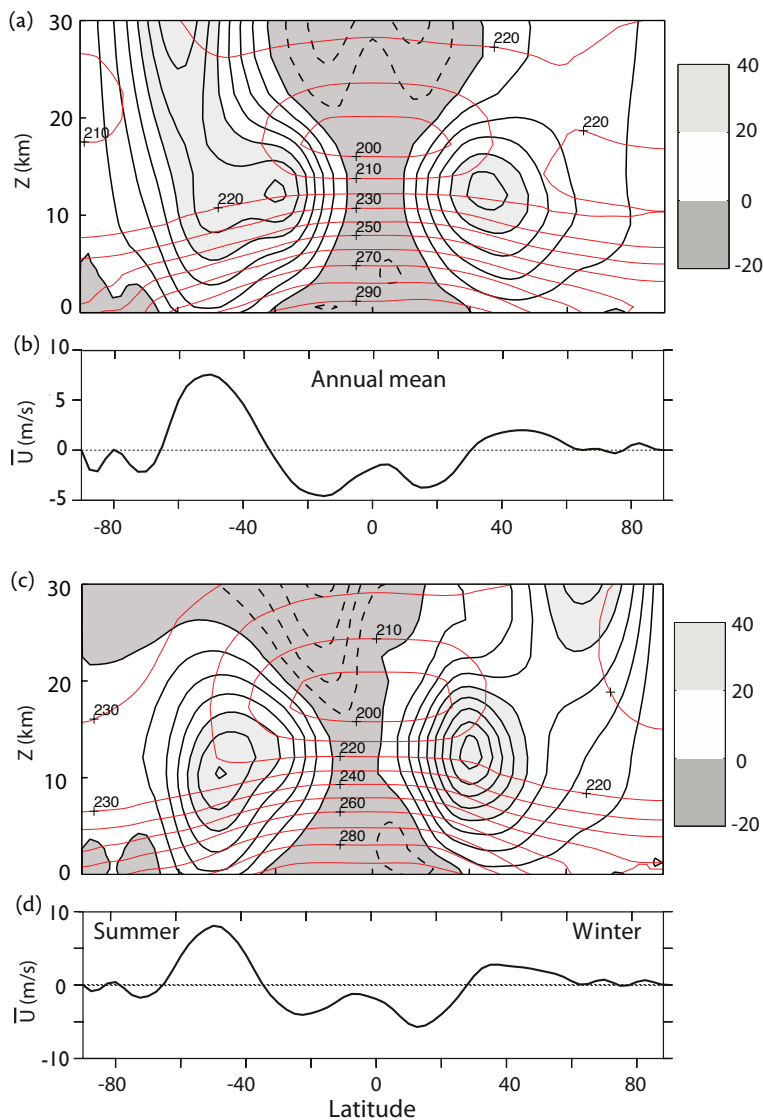


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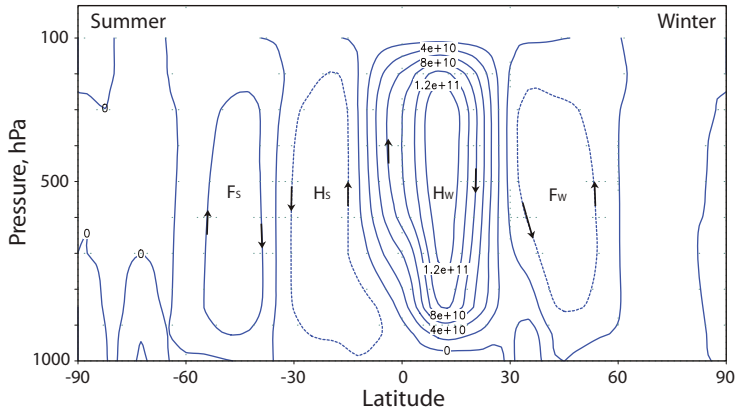


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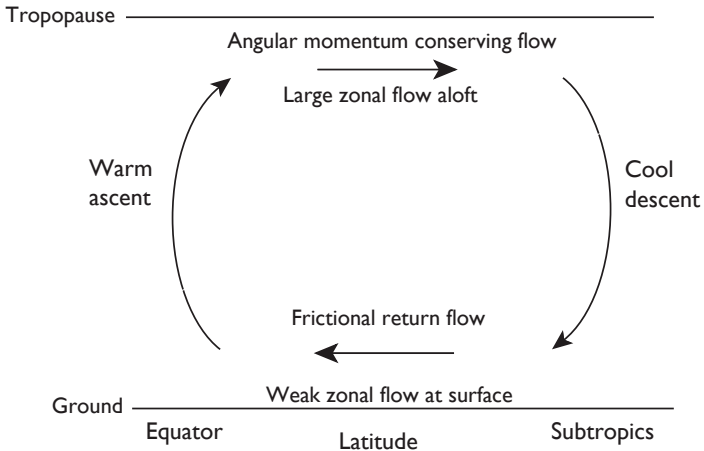


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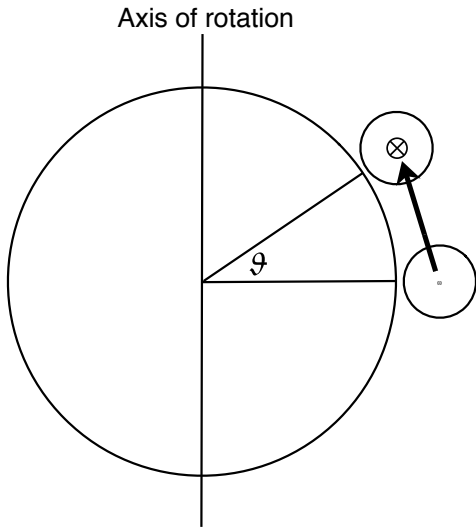


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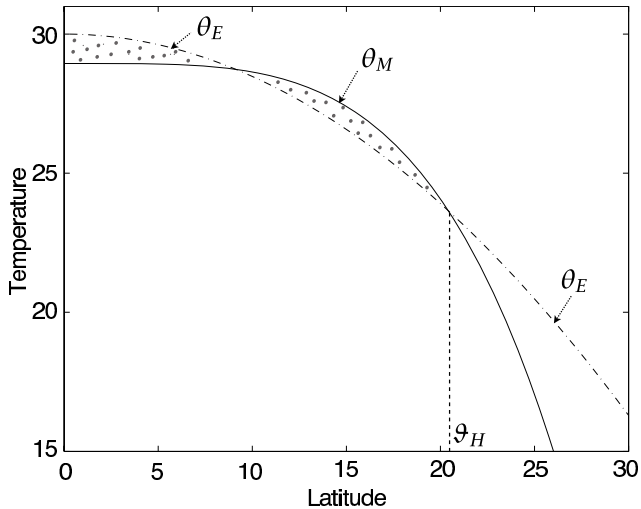


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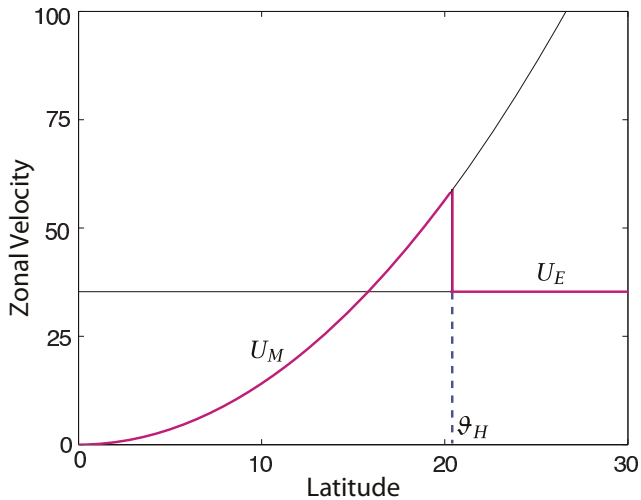


Fig. 14.7

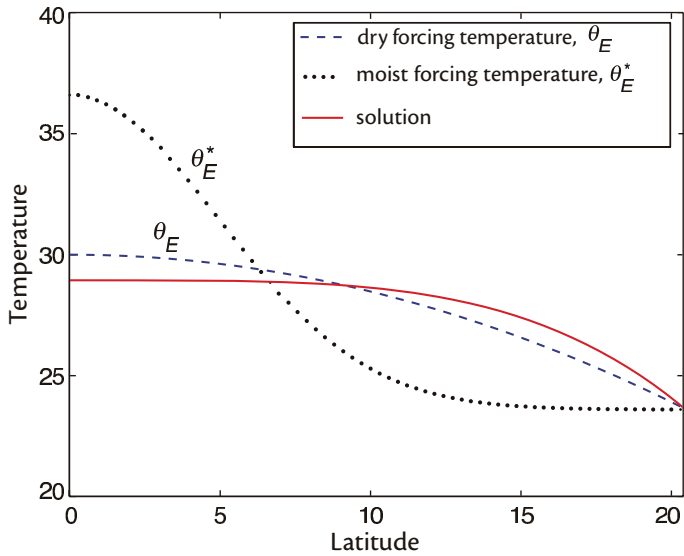


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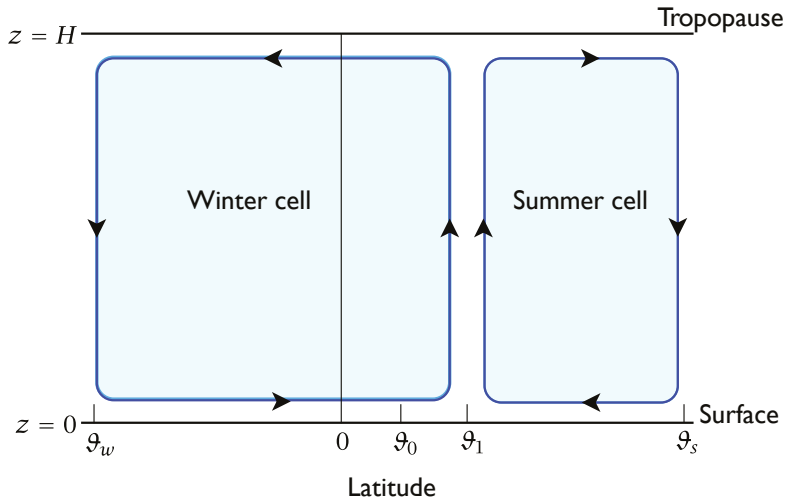


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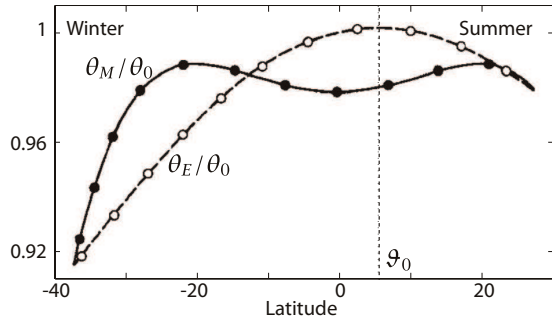
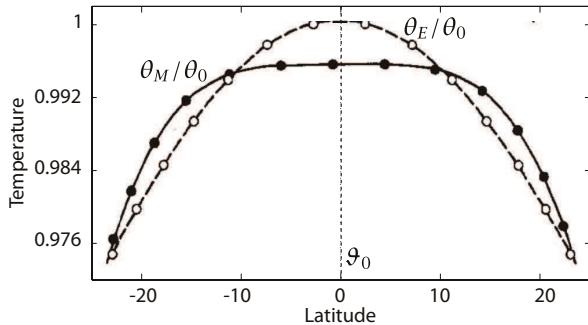


Fig. 14.10

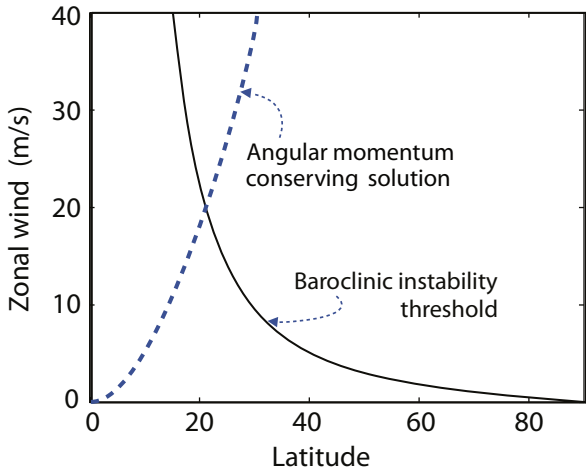


Fig. 14.11

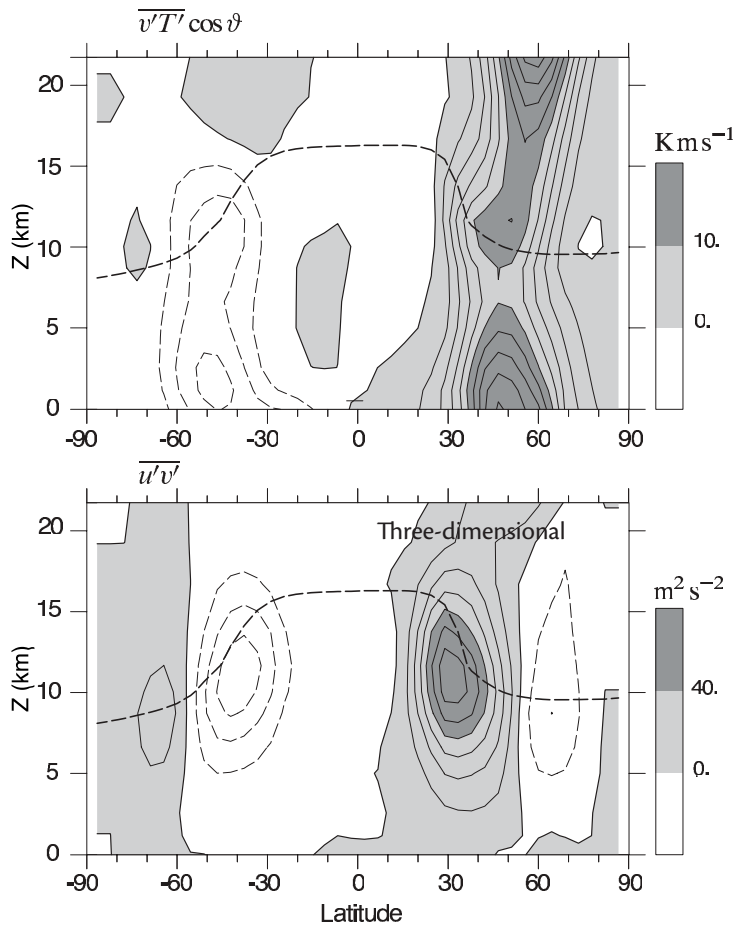


Fig. 14.12

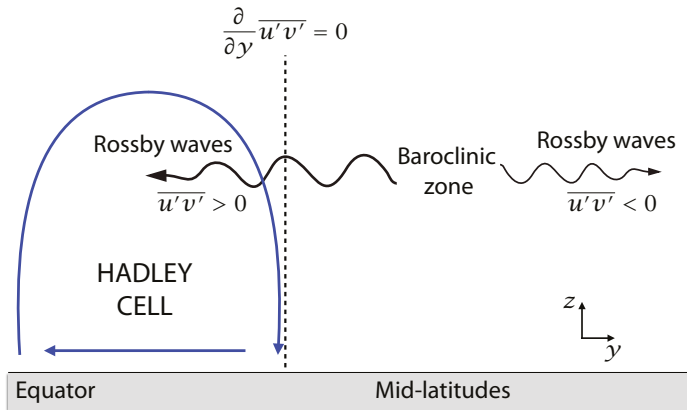


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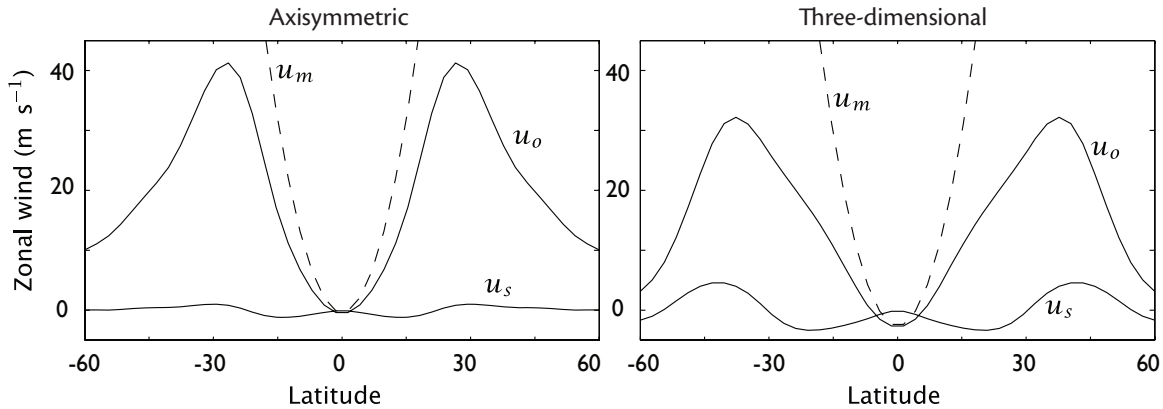


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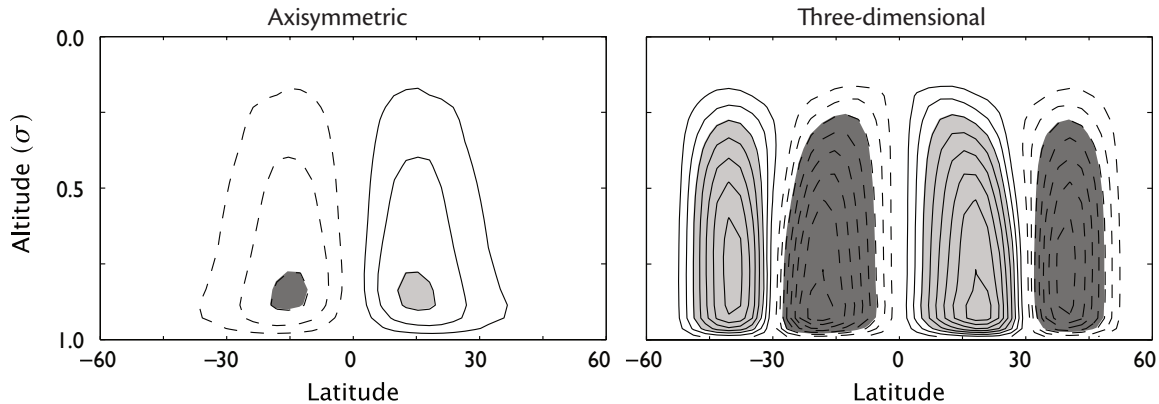


Fig. 14.15

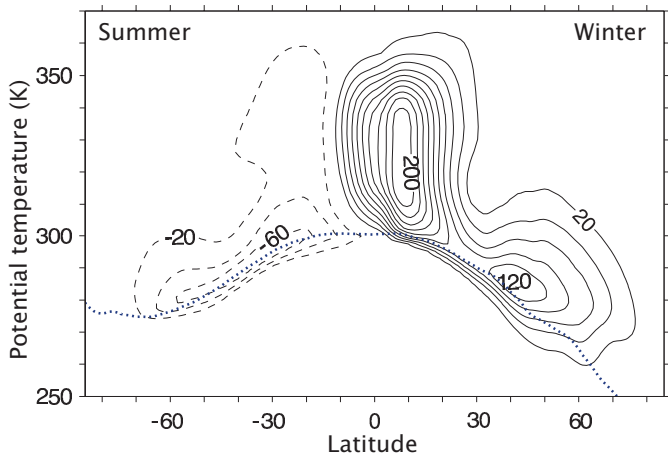


Fig. 14.16

Tropopause

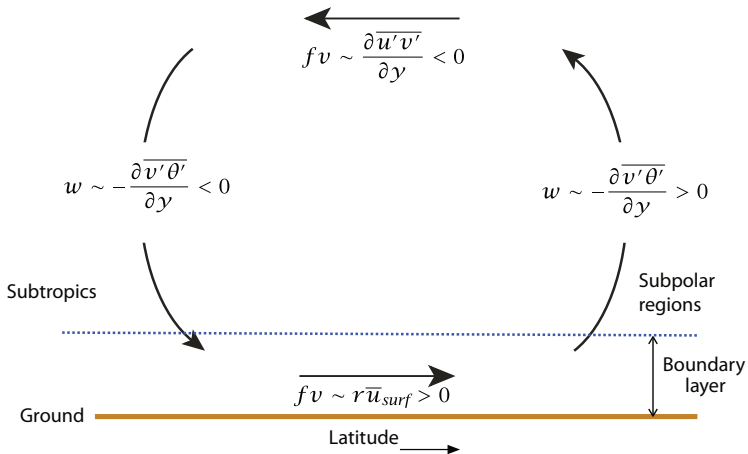


Fig. 14.17

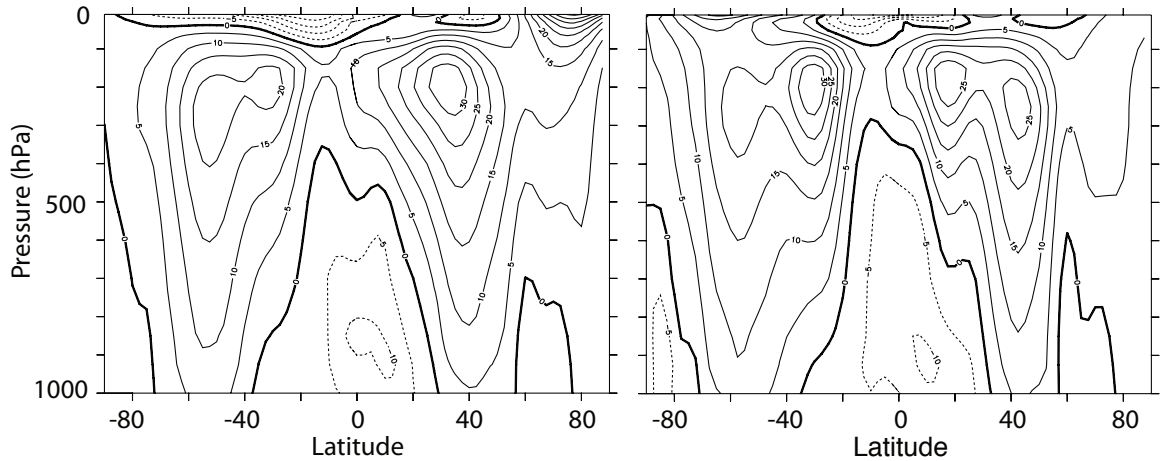


Fig. 15.1

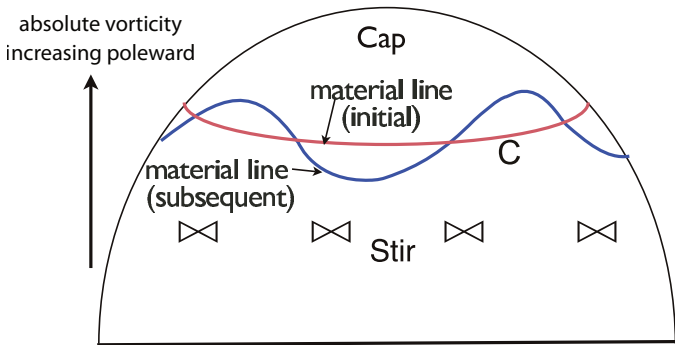


Fig. 15.2

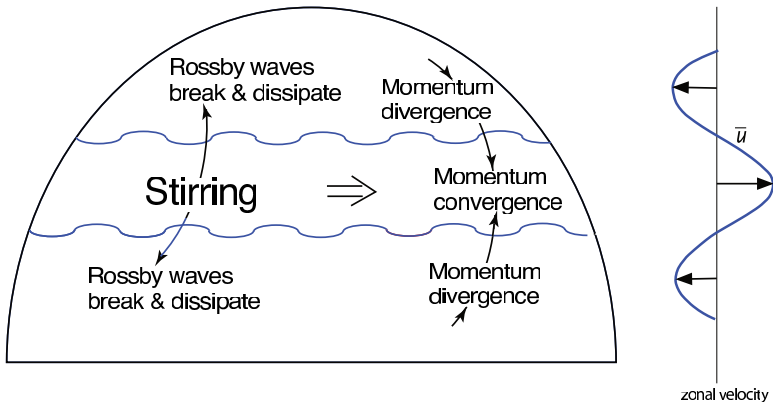


Fig. 15.3

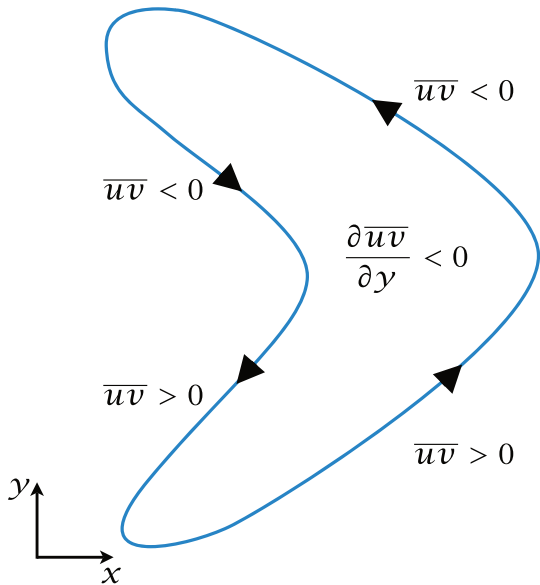


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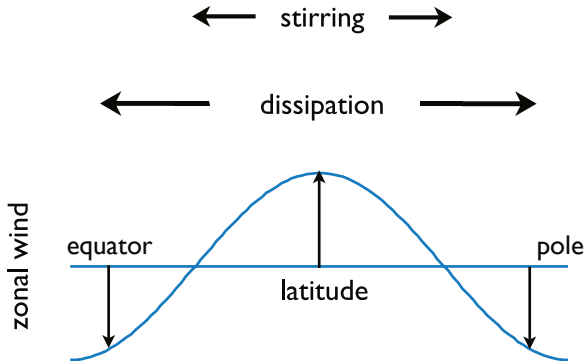


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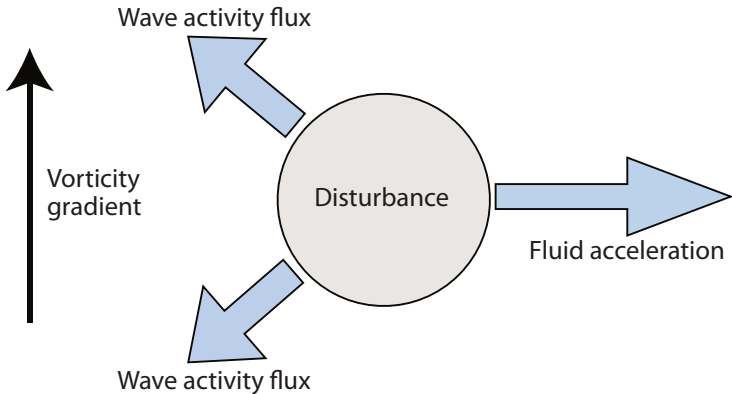


Fig. 15.6

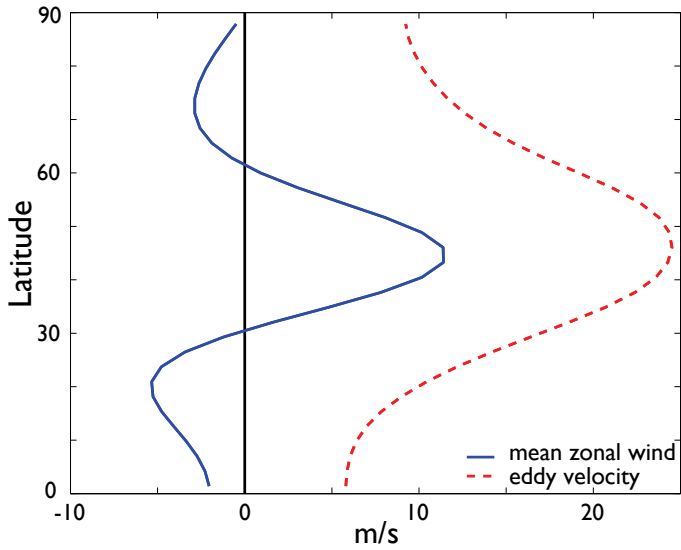


Fig. 15.7

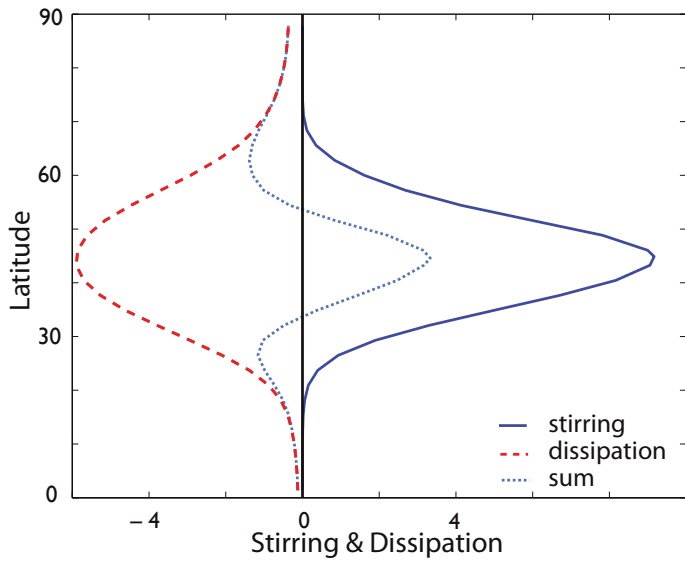


Fig. 15.8

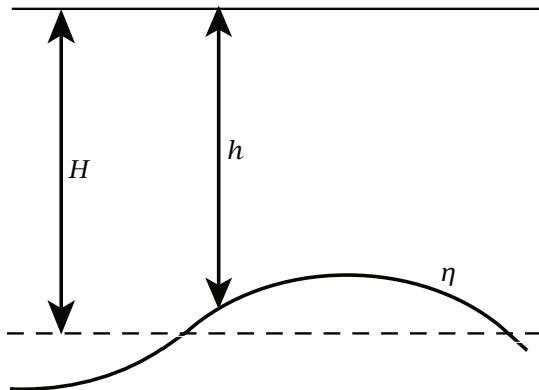


Fig. 15.9

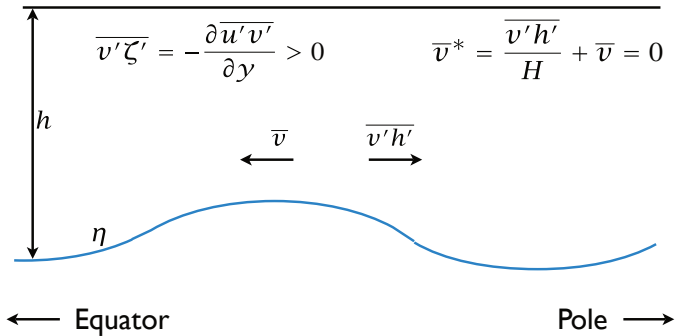


Fig. 15.10

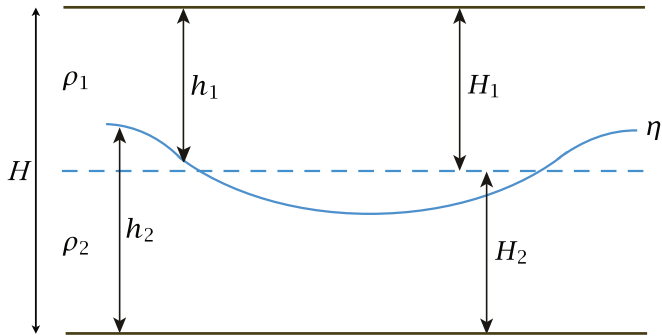


Fig. 15.11

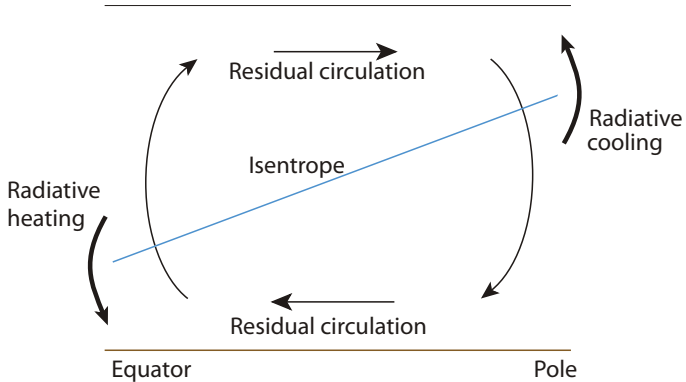


Fig. 15.12

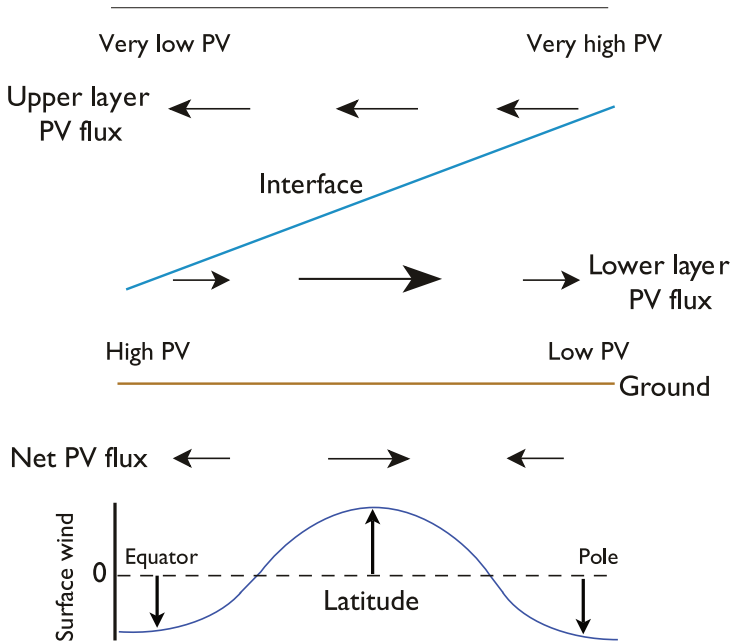


Fig. 15.13

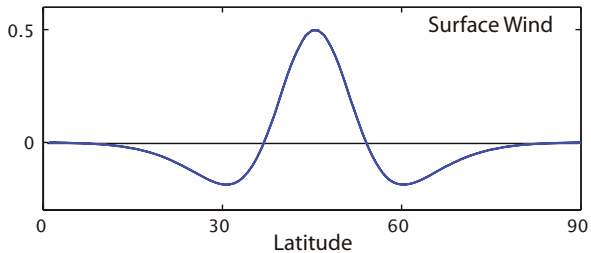
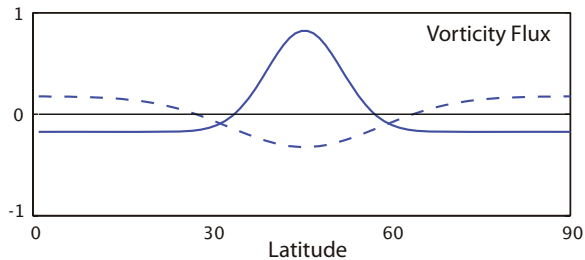
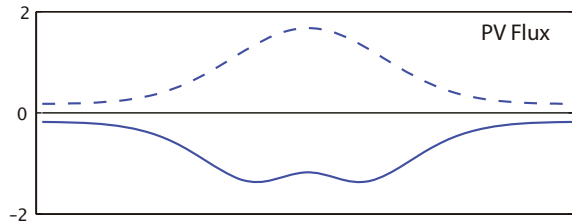
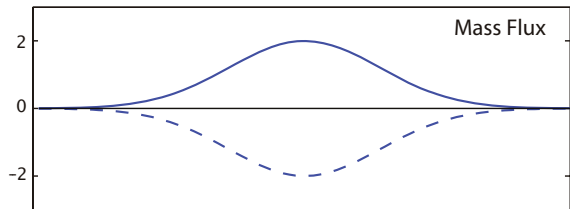


Fig. 15.14

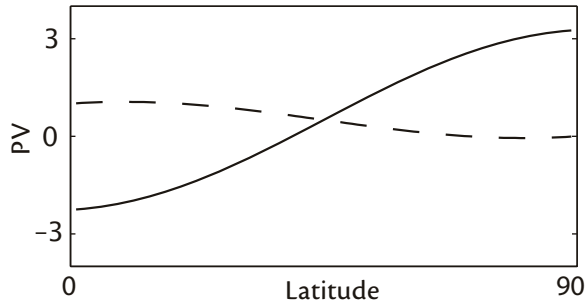
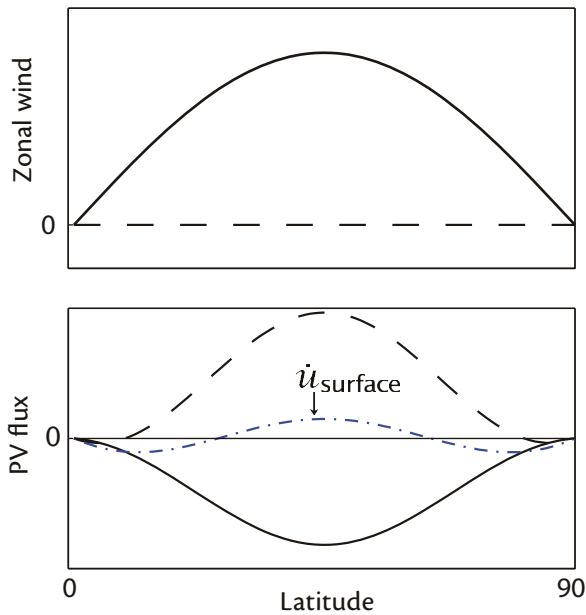


Fig. 15.15

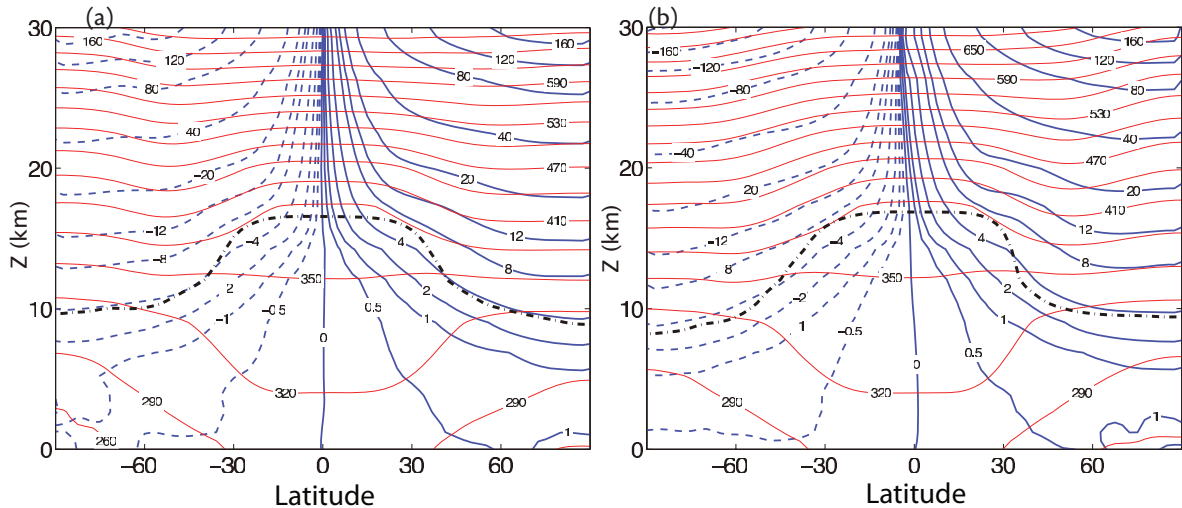
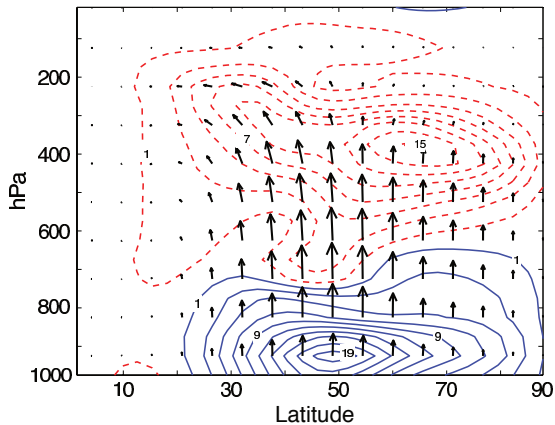


Fig. 15.16

(a)



(b)

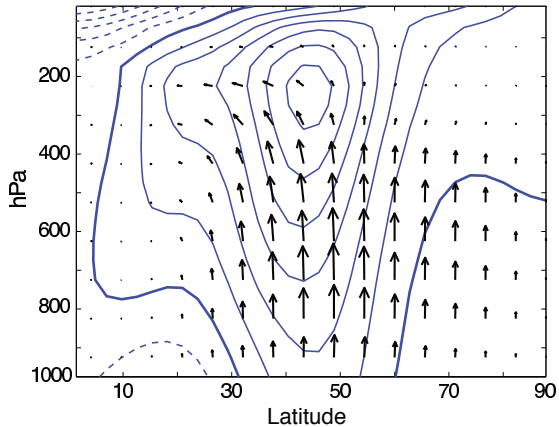
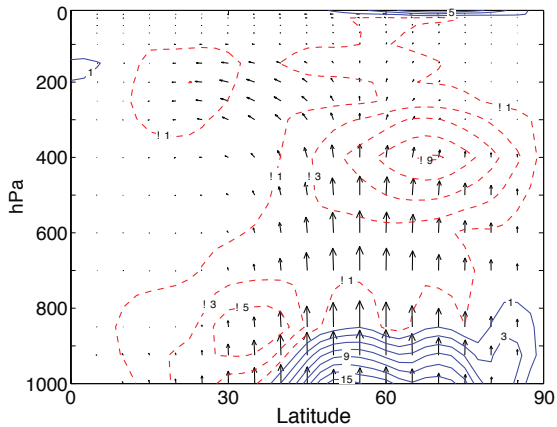


Fig. 15.17

(a)



(b)

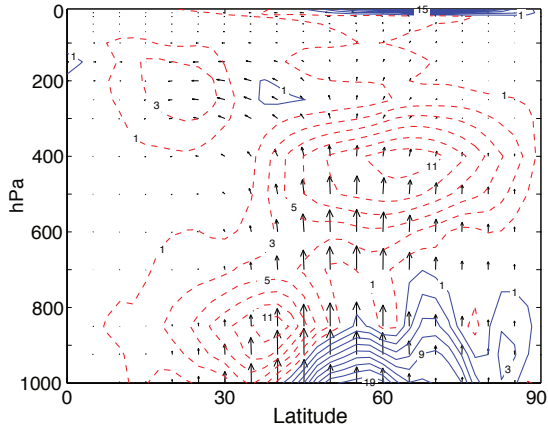


Fig. 15.18

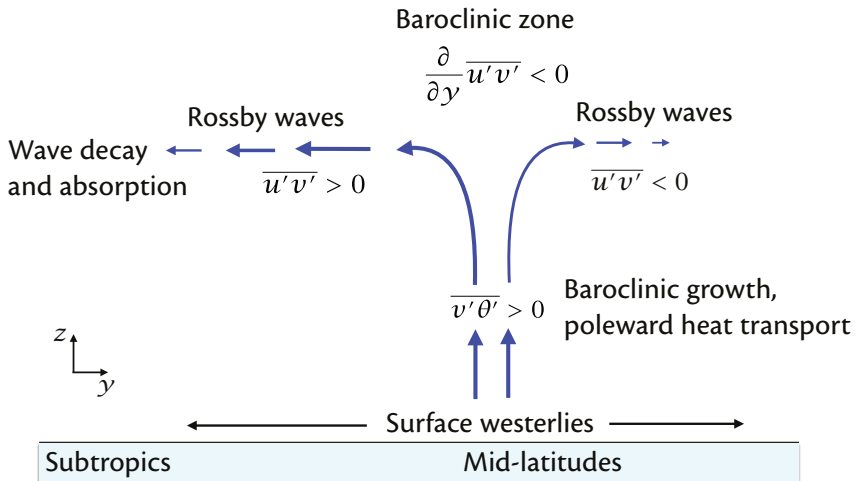


Fig. 15.19

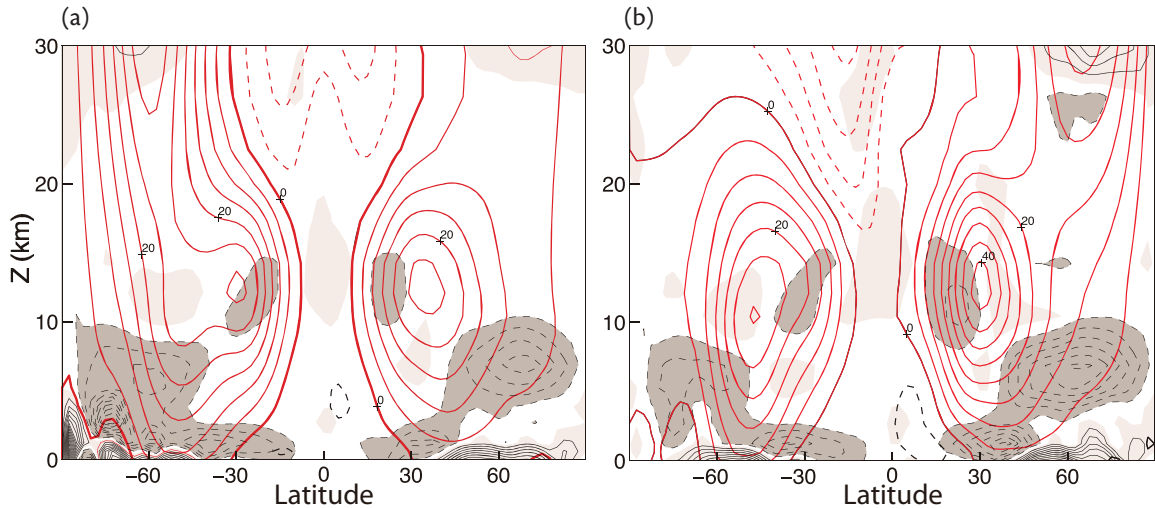


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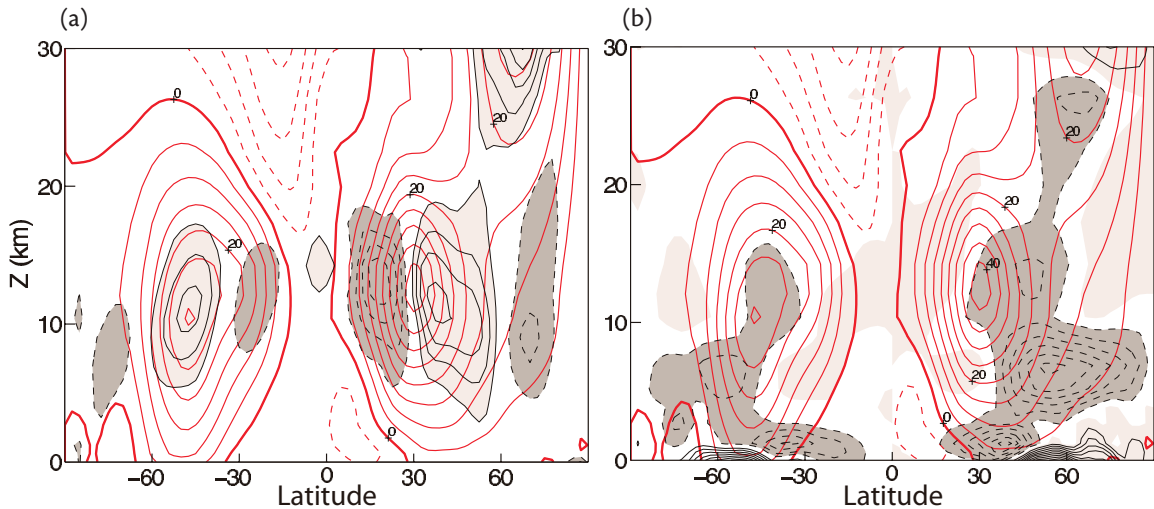


Fig. 15.21

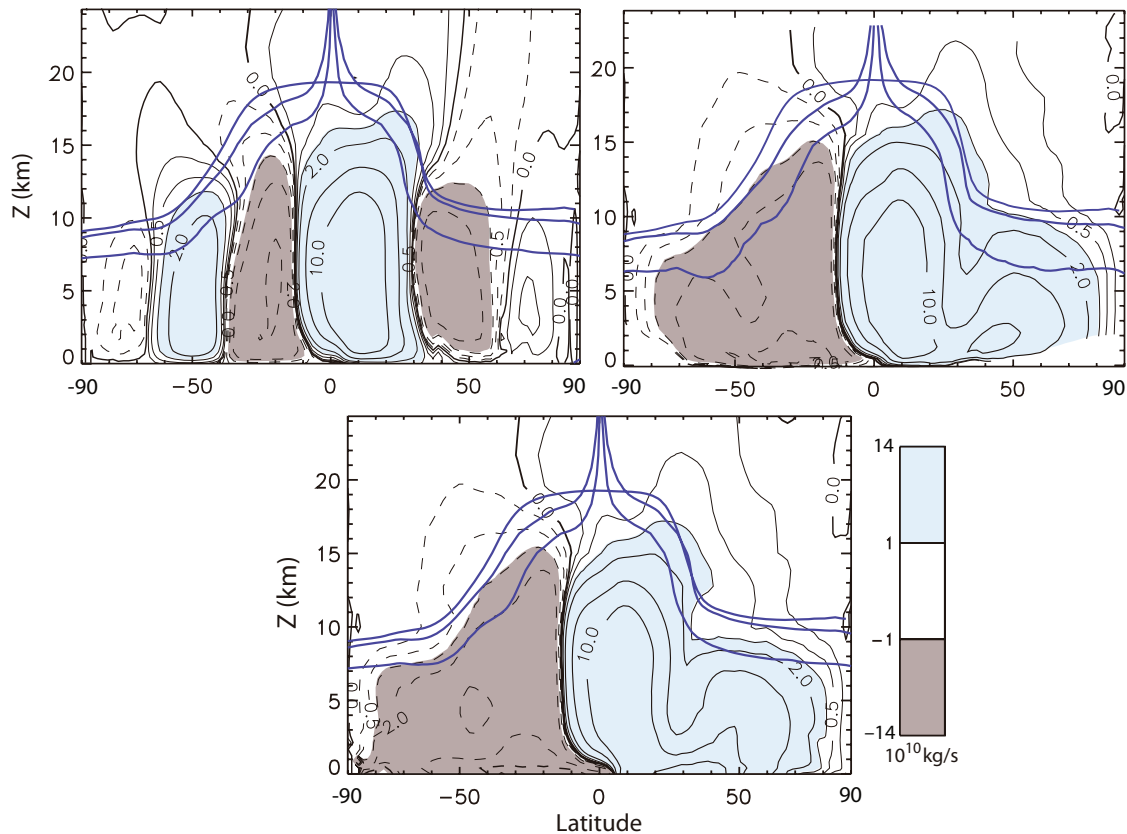


Fig. 15.22

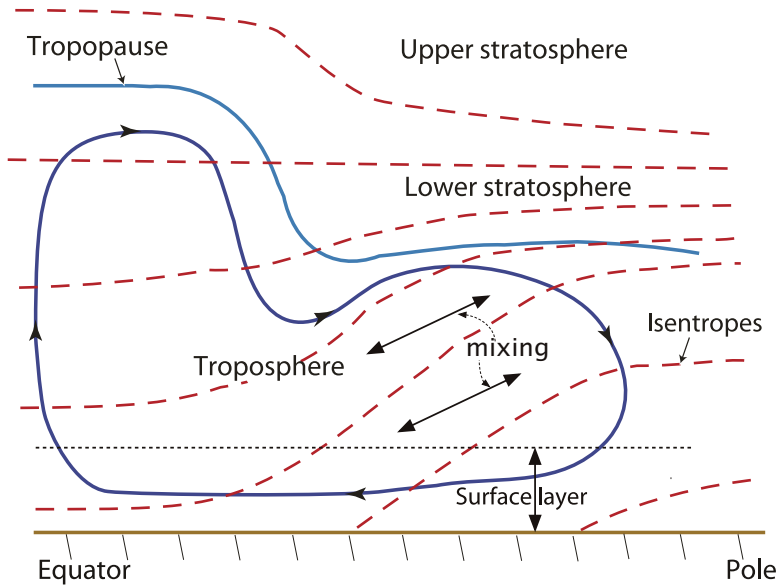


Fig. 15.23

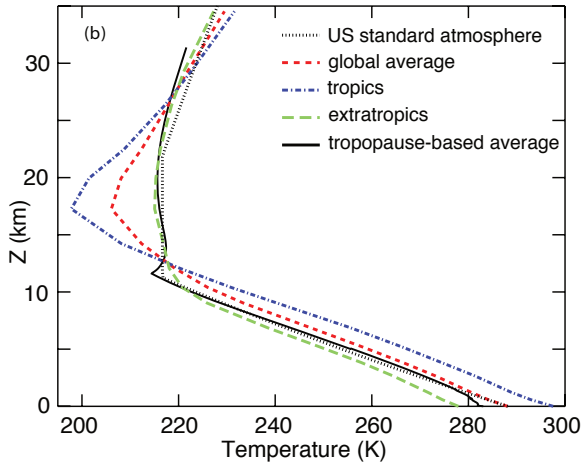
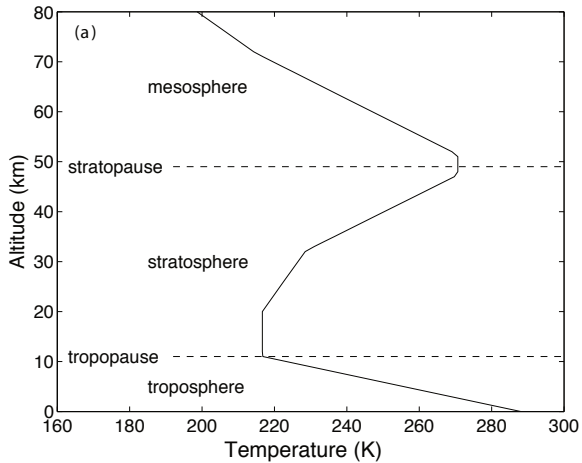


Fig. 15.24

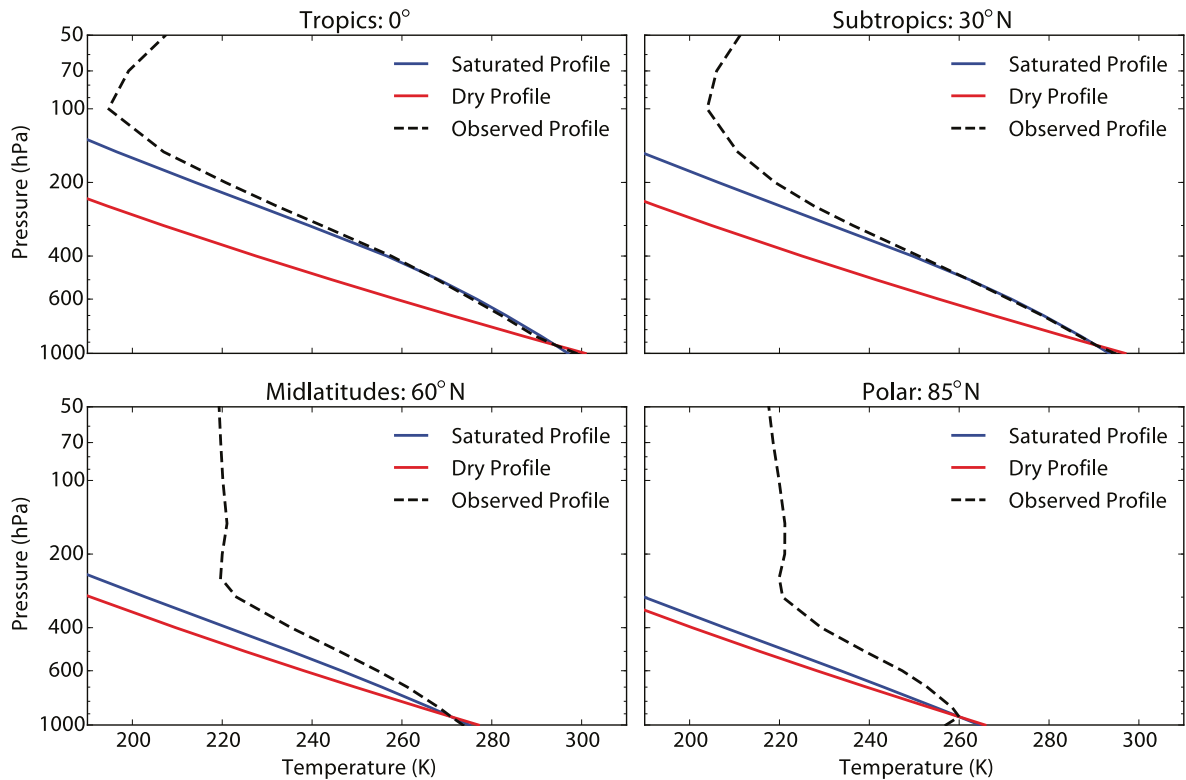


Fig. 15.25

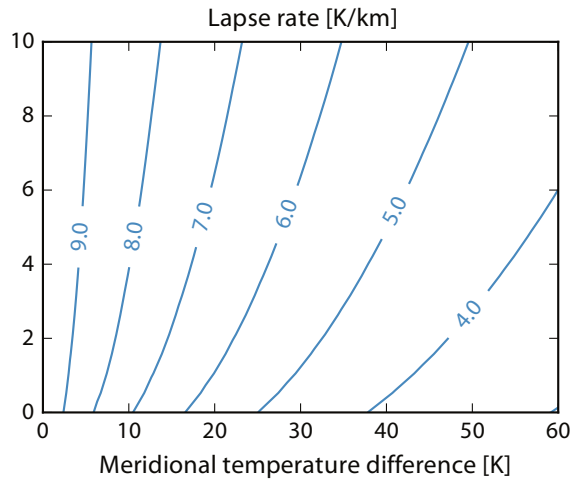
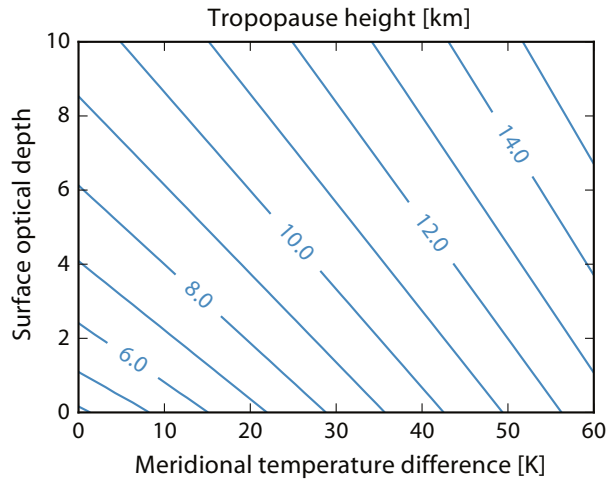


Fig. 15.26

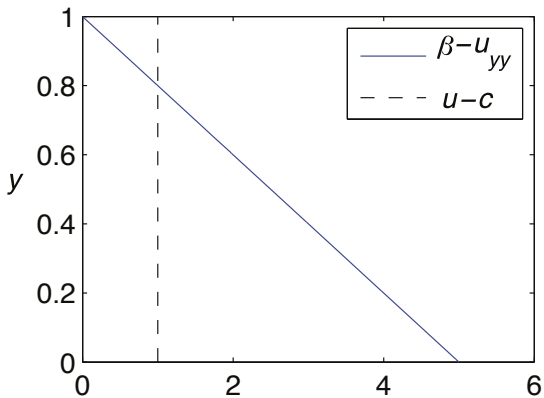


Fig. 16.1

Group velocity

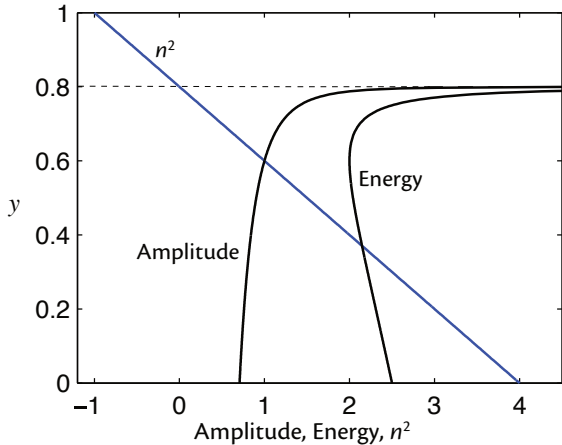
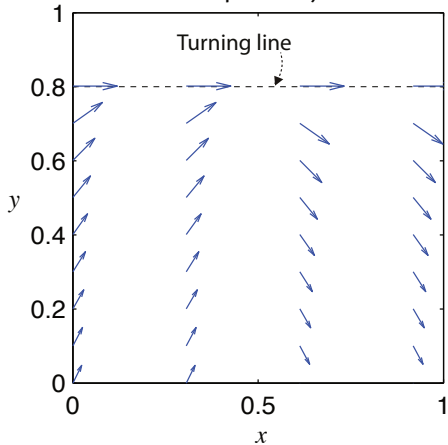


Fig. 16.2

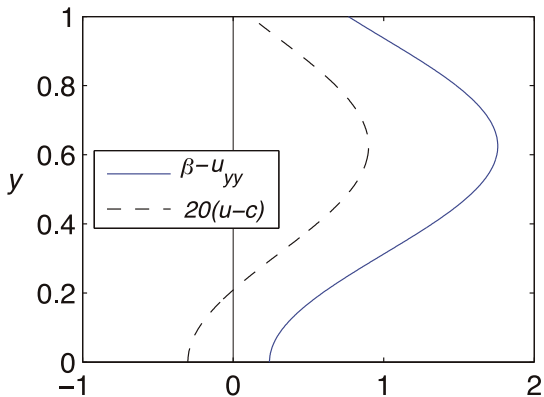


Fig. 16.3

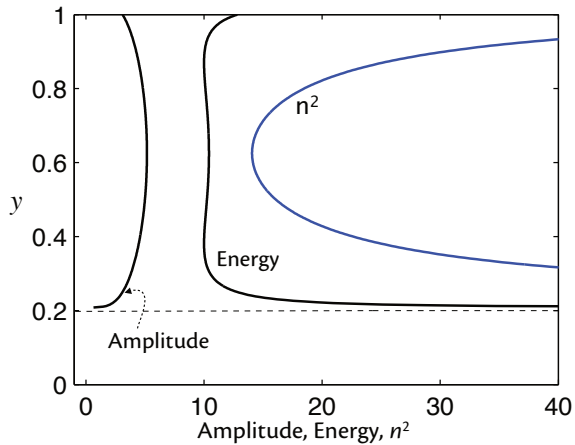
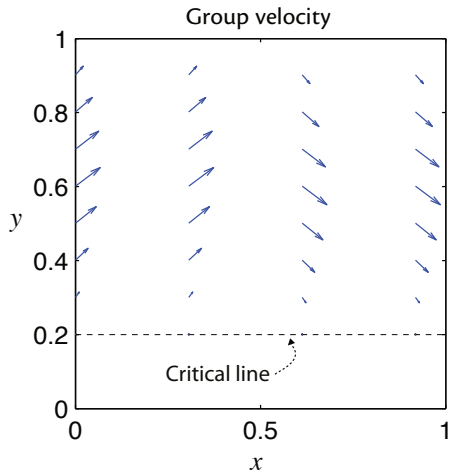


Fig. 16.4

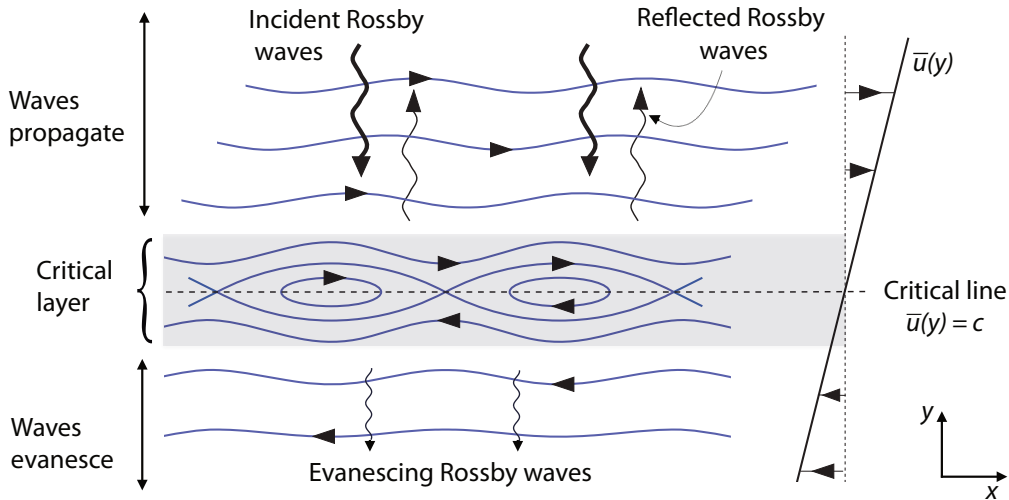


Fig. 16.5

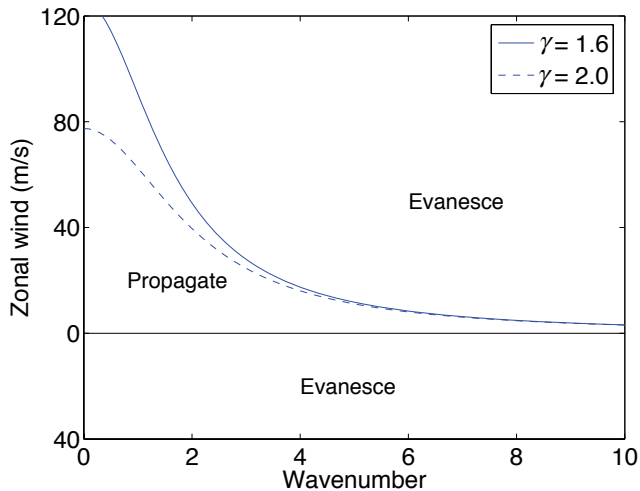
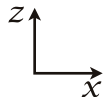


Fig. 16.6

Phase propagation



Warm, poleward



Cool, equatorward



High

Low

High

Fig. 16.7

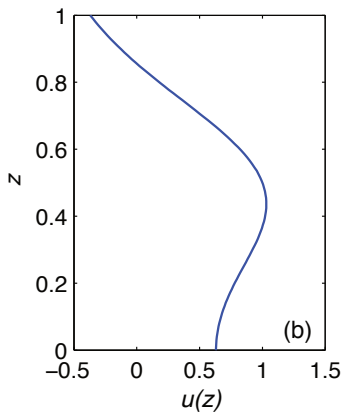
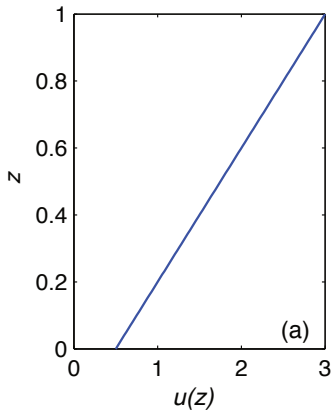


Fig. 16.8

Group velocity

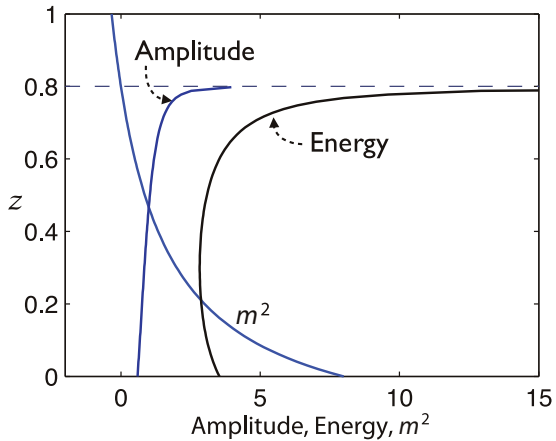
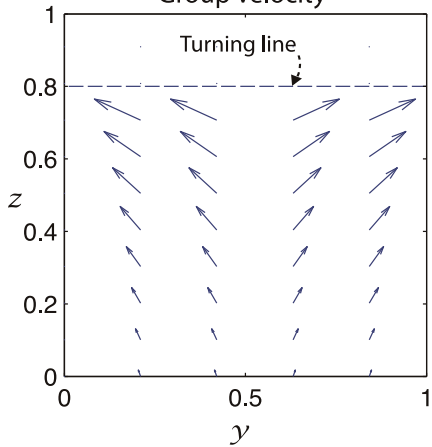


Fig. 16.9

Group velocity

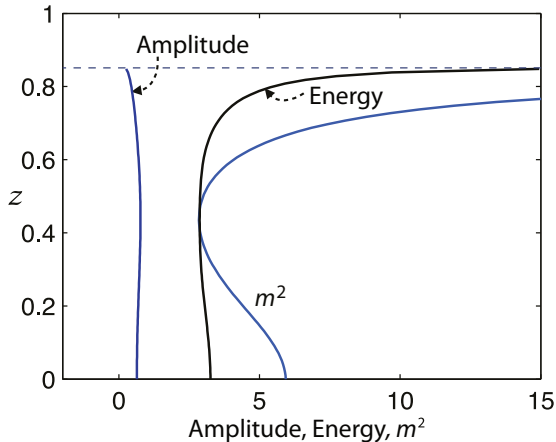
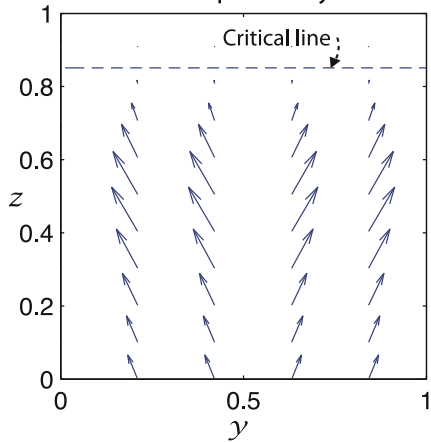
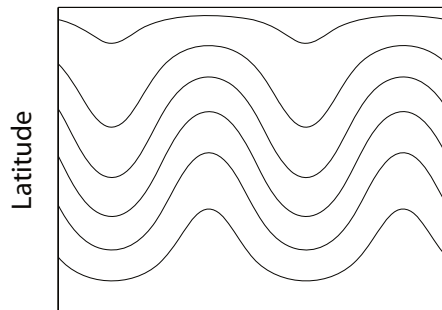
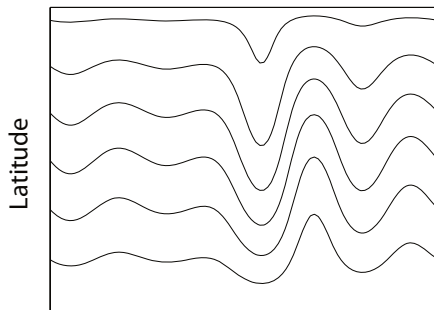
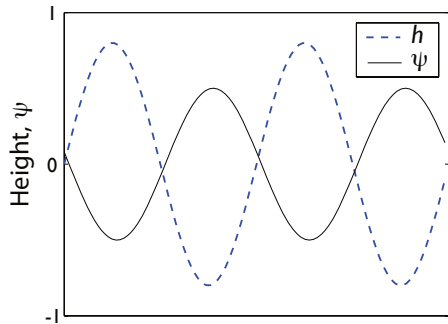
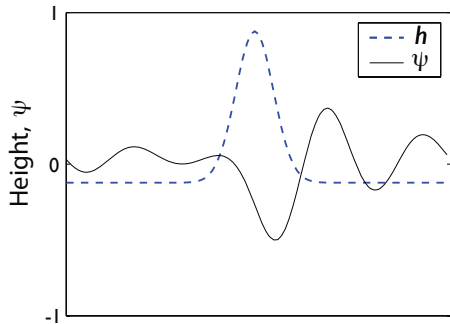


Fig. 16.10



Longitude

Longitude

Fig. 16.11

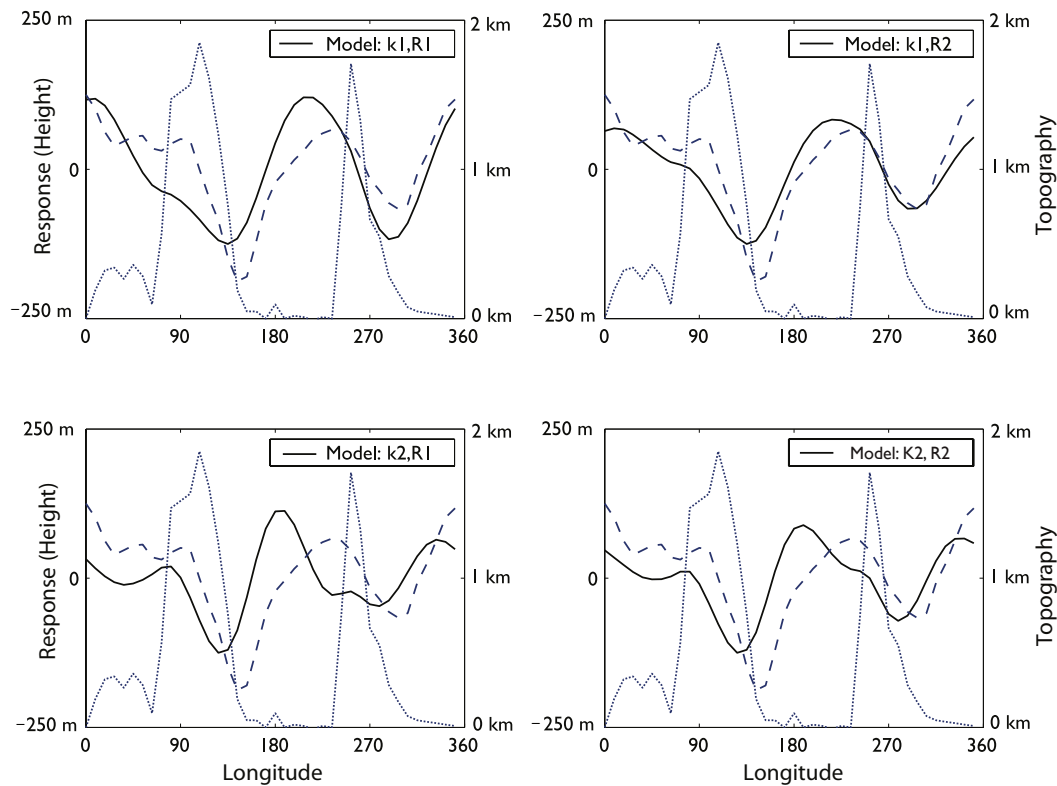


Fig. 16.12

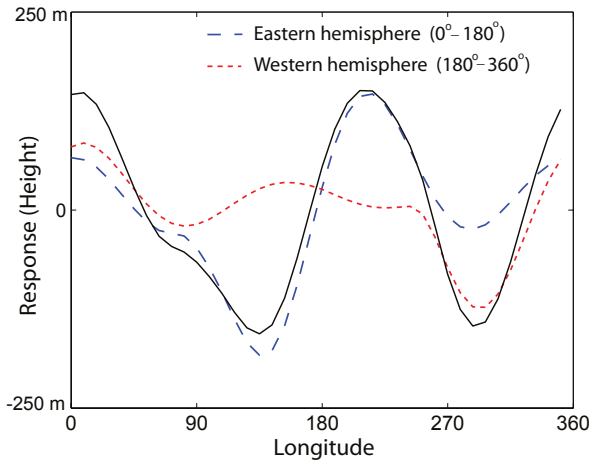


Fig. 16.13

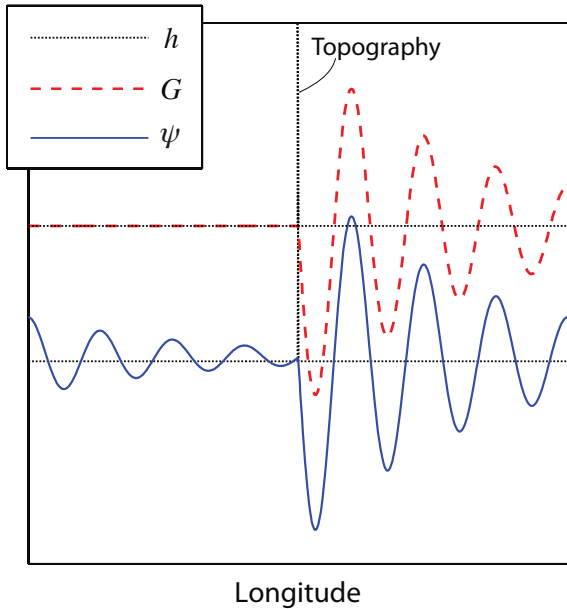
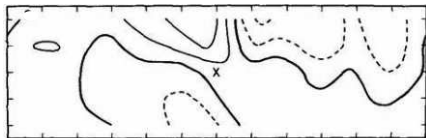
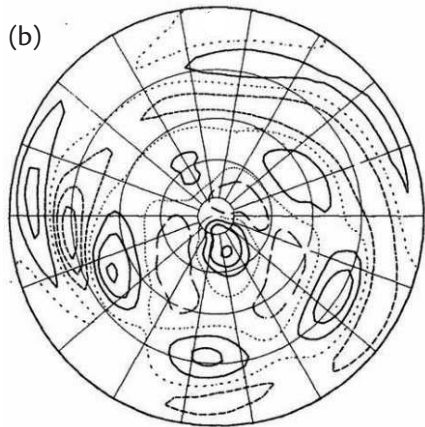


Fig. 16.14

(a)



(b)



(c)

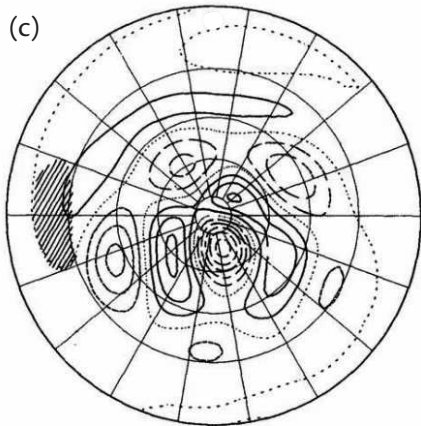
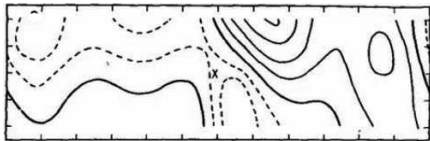
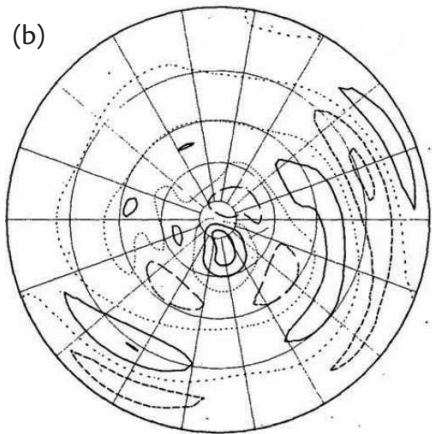


Fig. 16.15

(a)



(b)



(c)

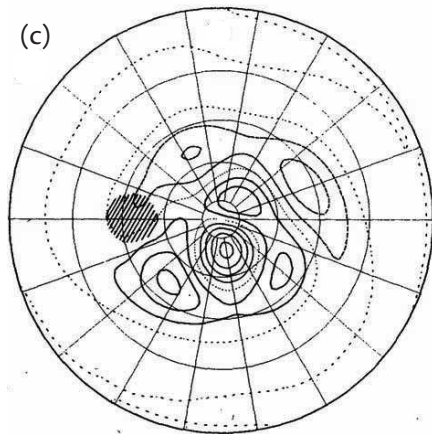
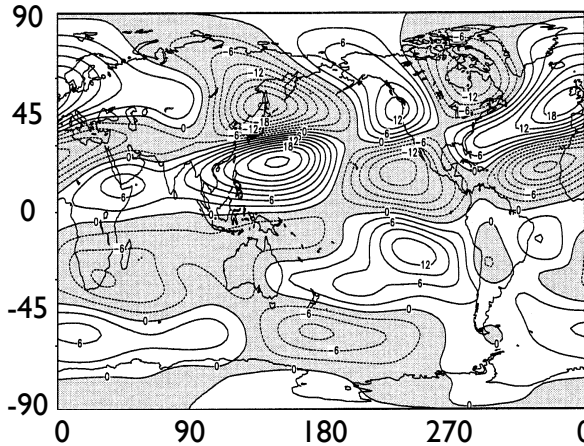


Fig. 16.16

Observed



Linear Theory

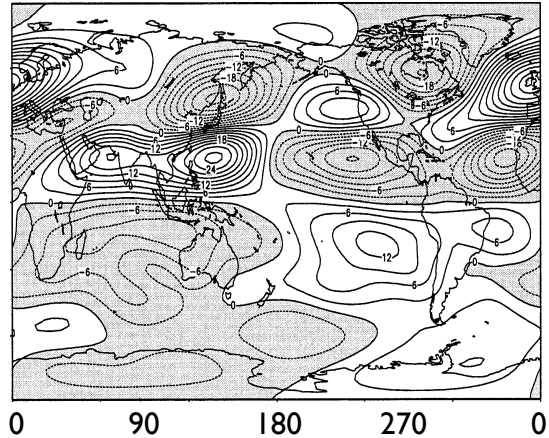


Fig. 16.17

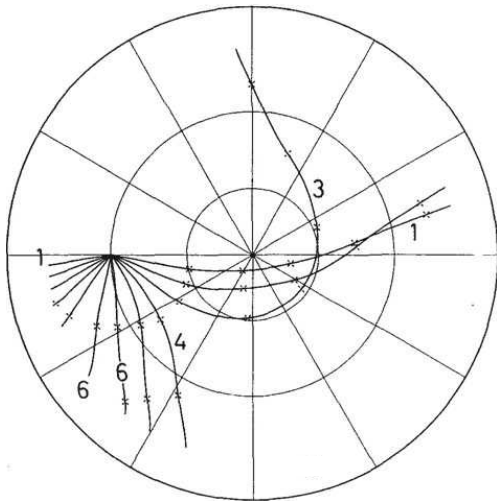


Fig. 16.18

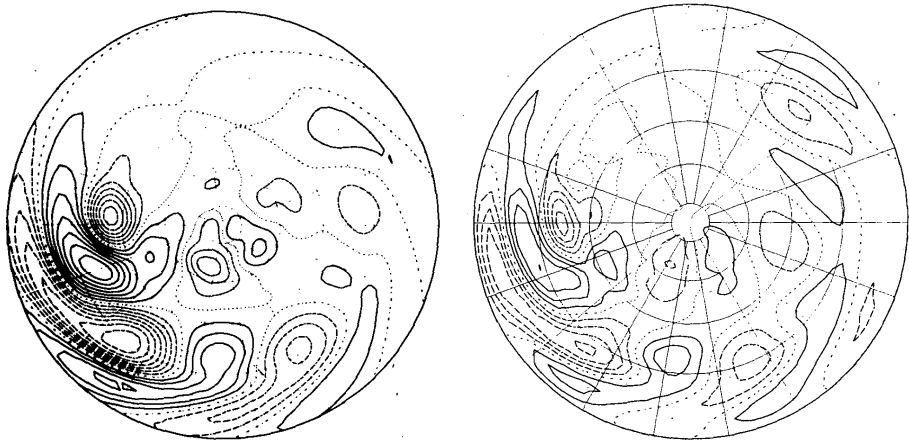


Fig. 16.19

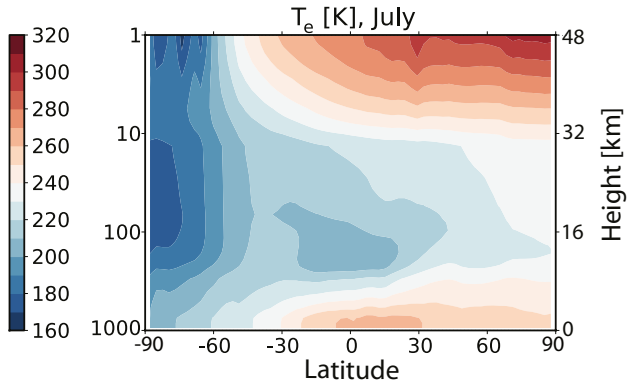
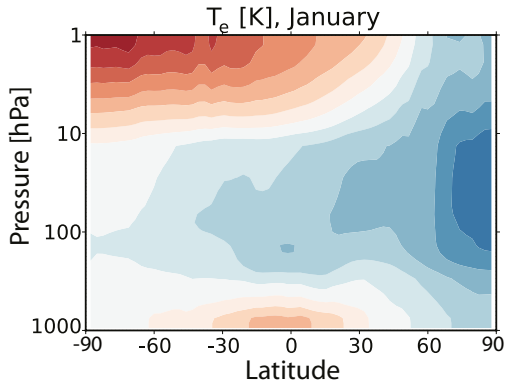


Fig. 17.1

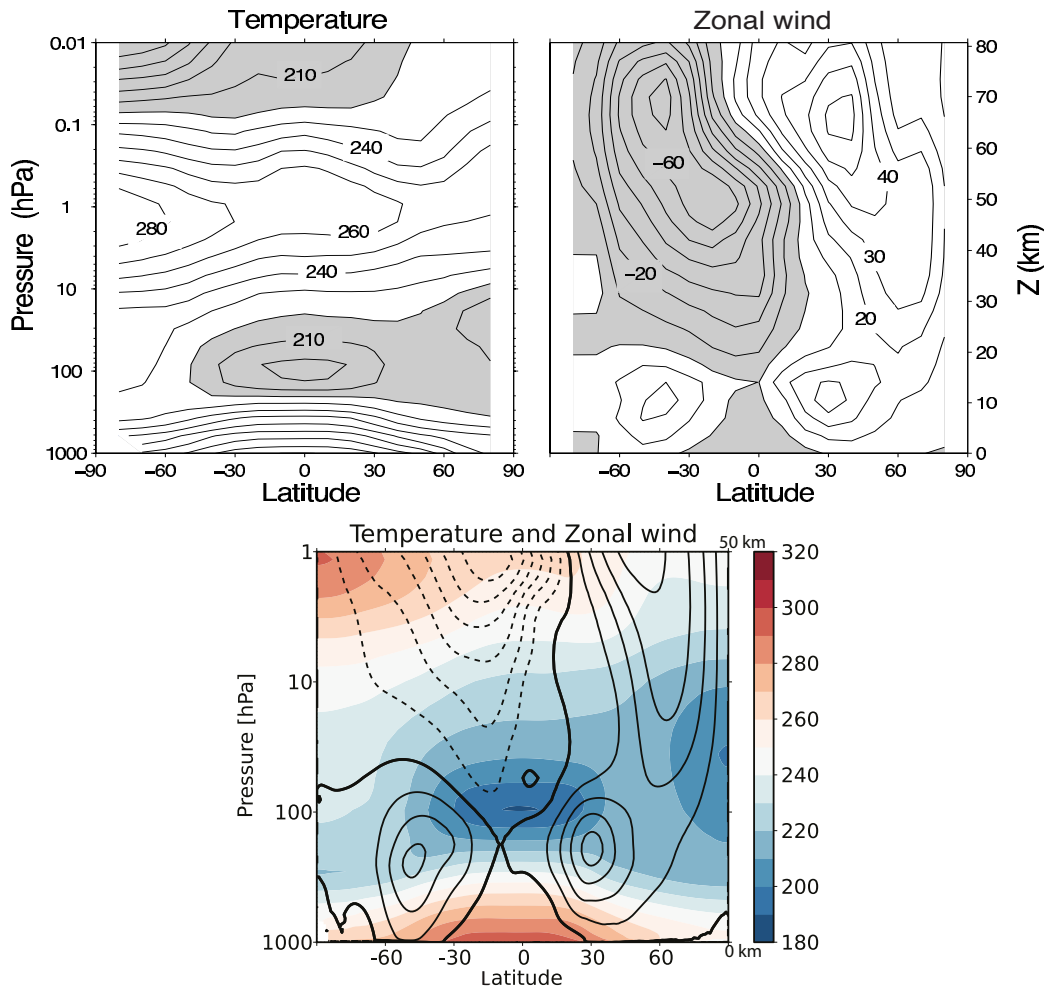
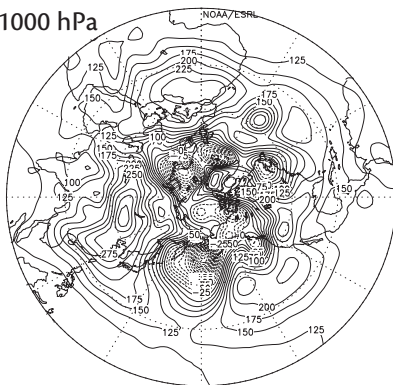
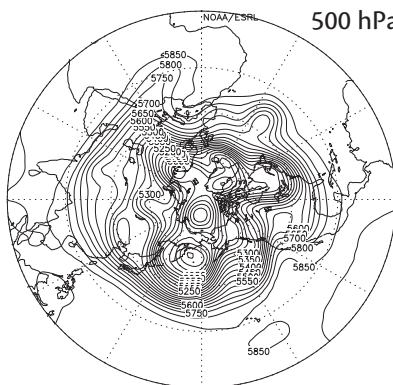


Fig. 17.2

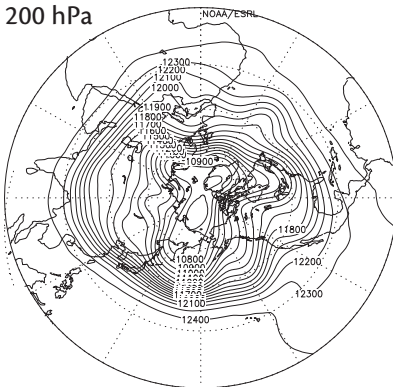
1000 hPa



500 hPa



200 hPa



20 hPa

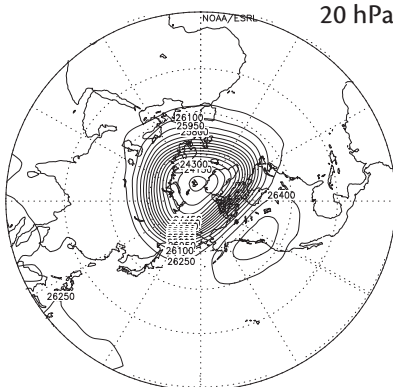


Fig. 17.3

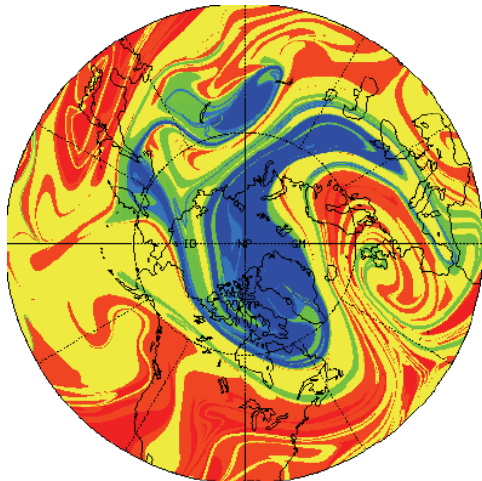


Fig. 17.4

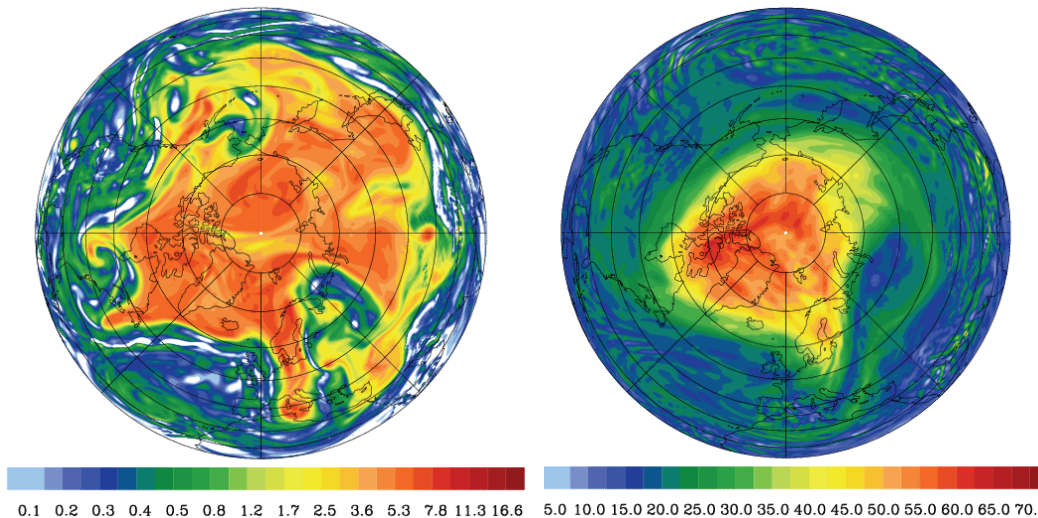


Fig. 17.5

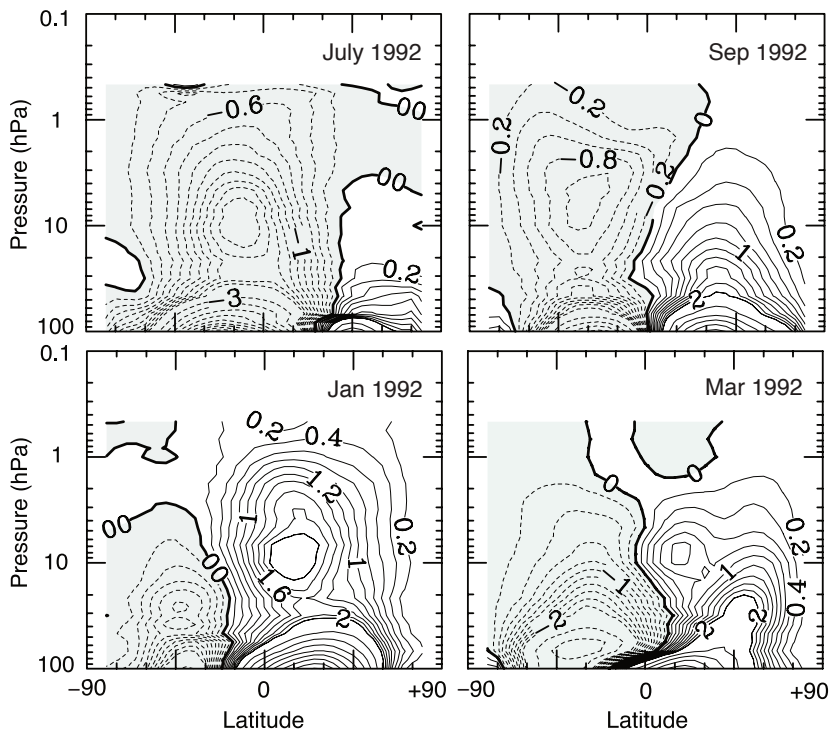


Fig. 17.6

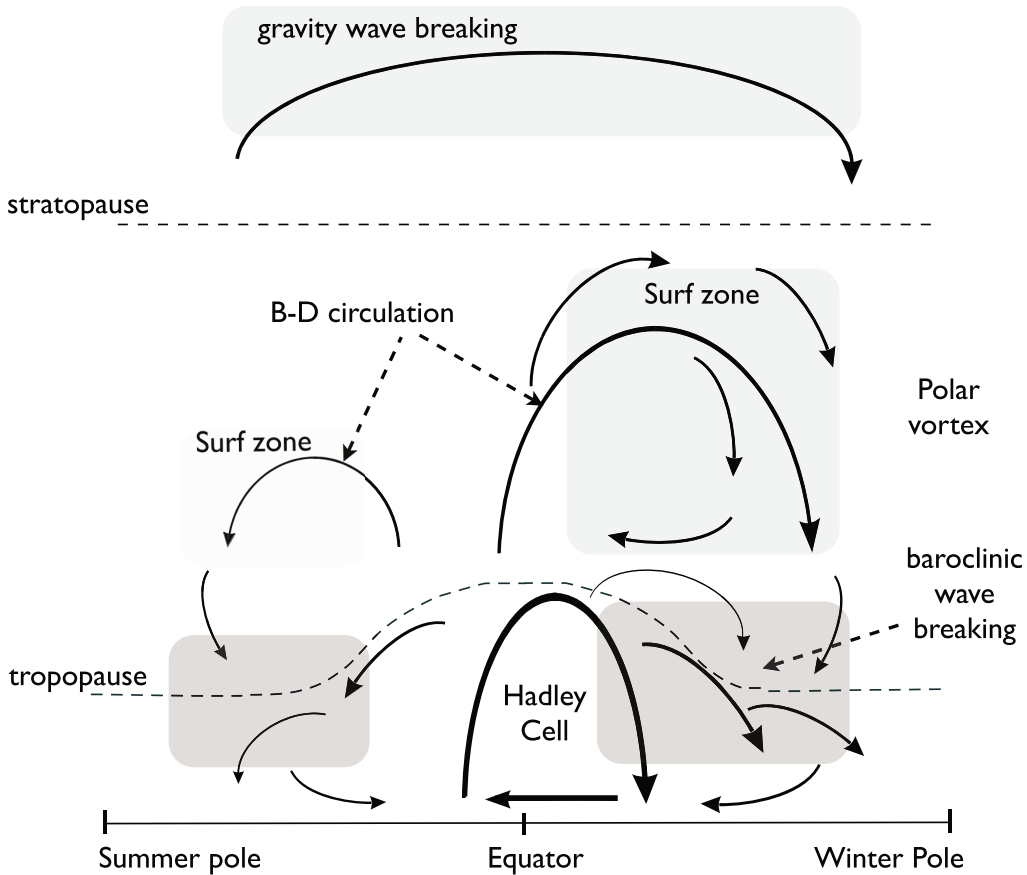


Fig. 17.7

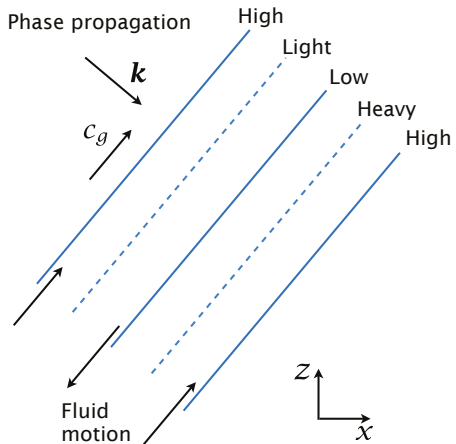
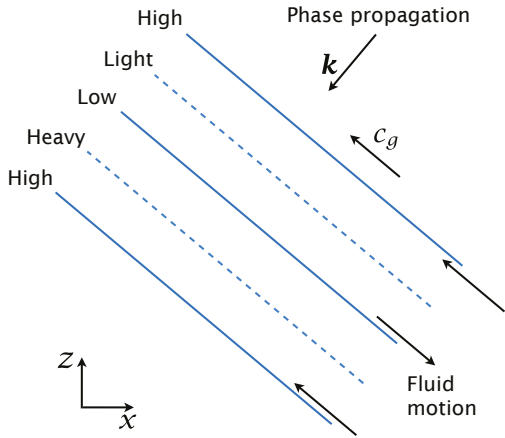


Fig. 17.8

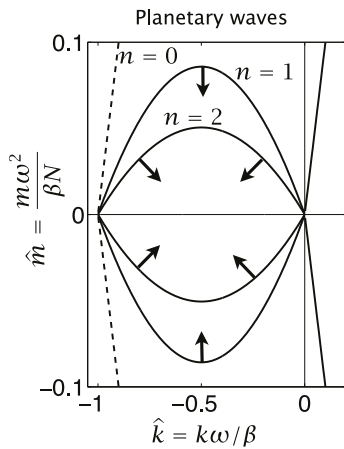
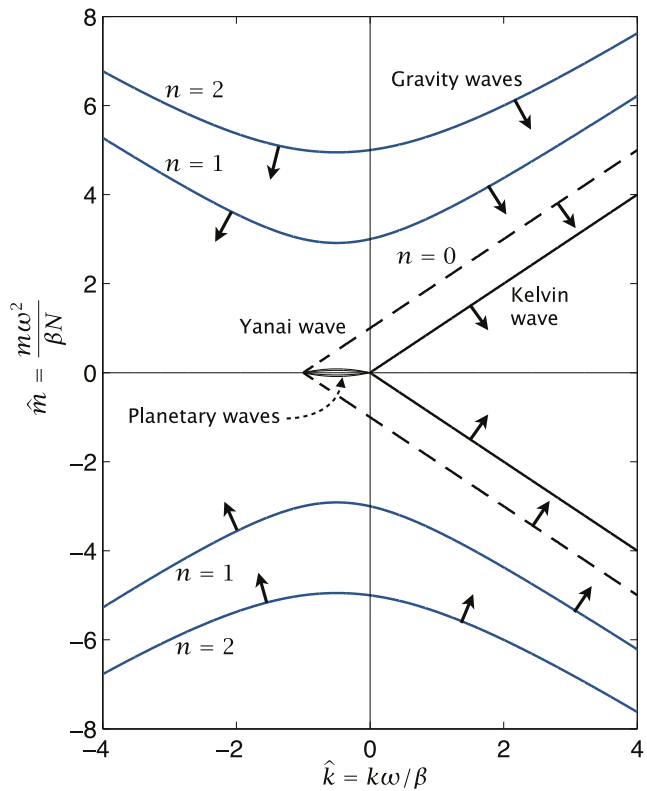


Fig. 17.9

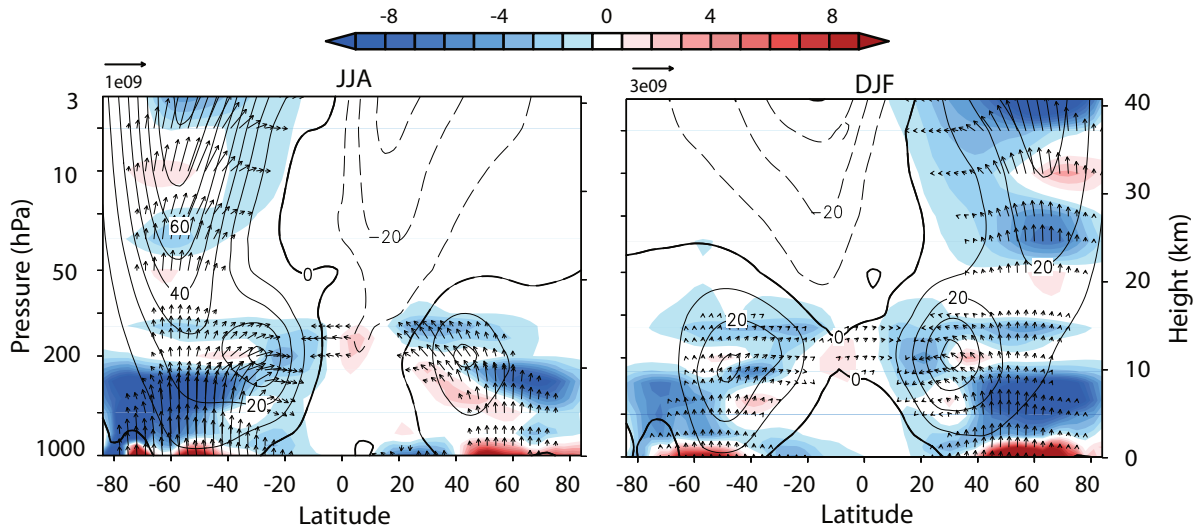


Fig. 17.10

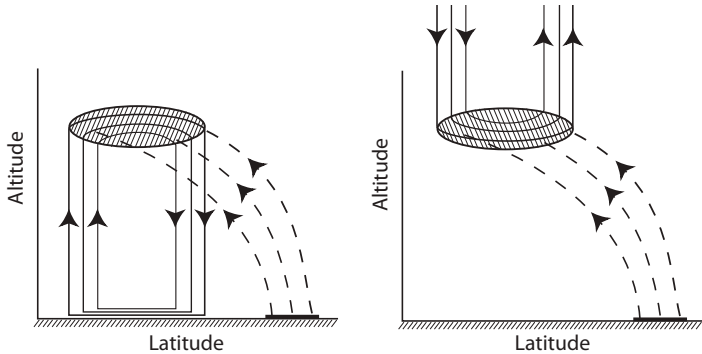


Fig. 17.11

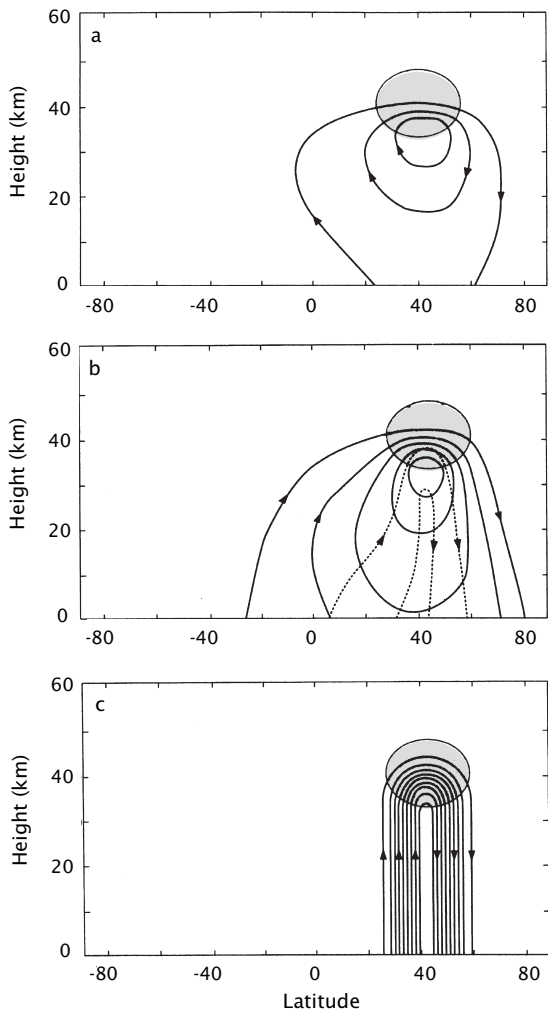


Fig. 17.12

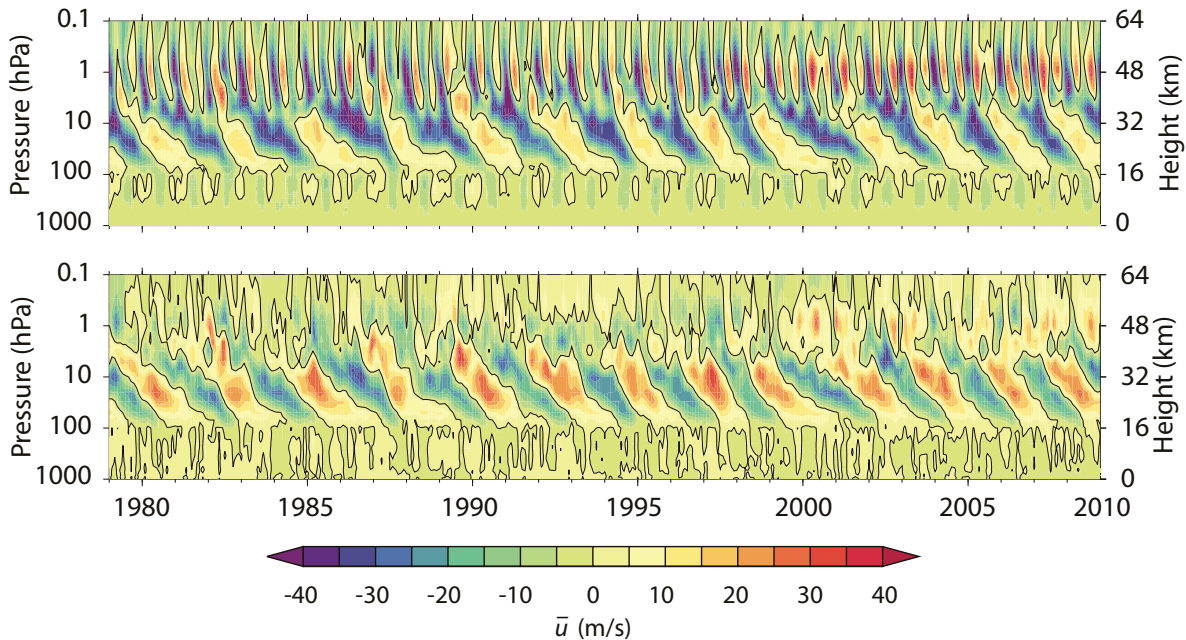


Fig. 17.13

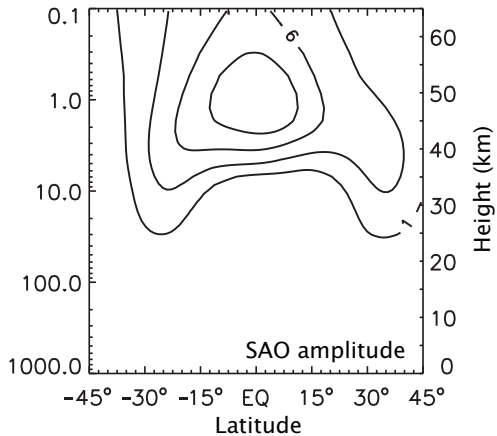
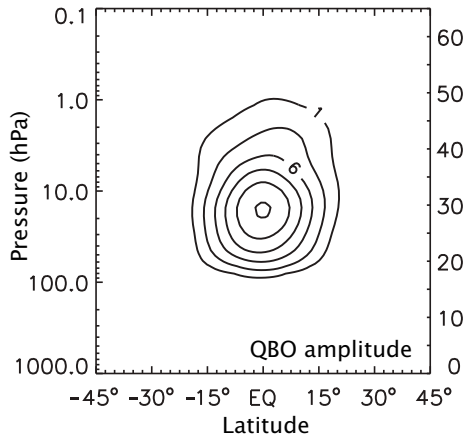


Fig. 17.14

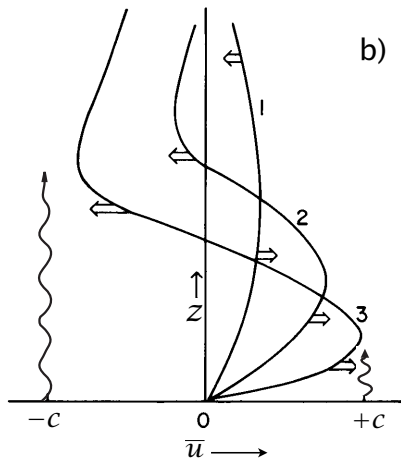
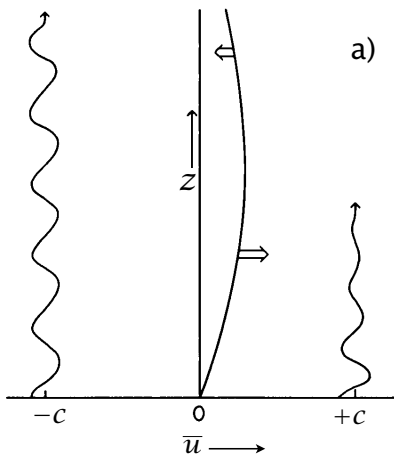


Fig. 17.15

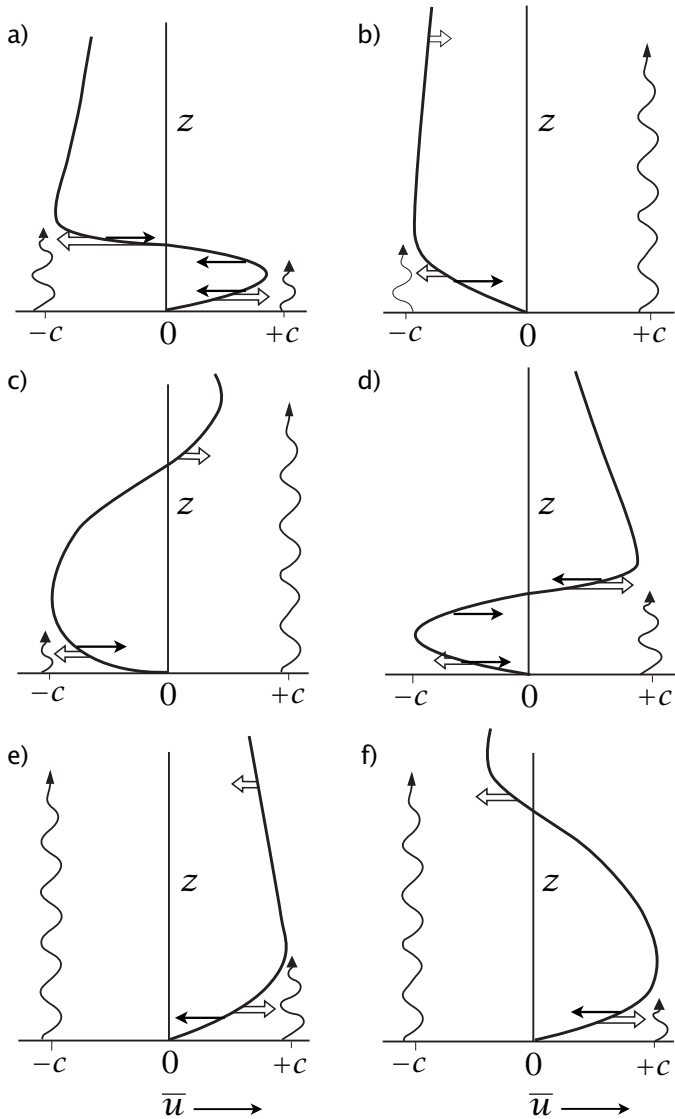


Fig. 17.16

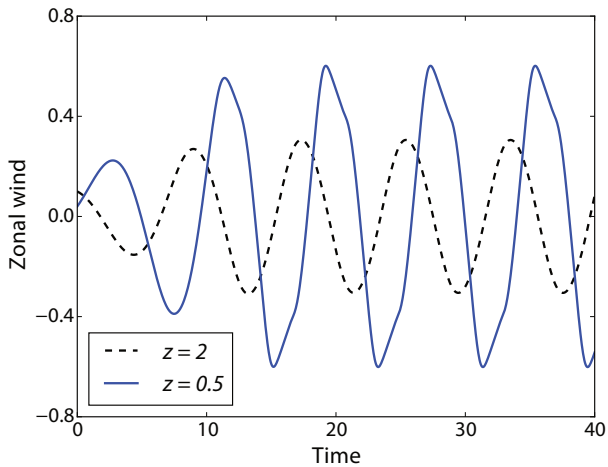


Fig. 17.17

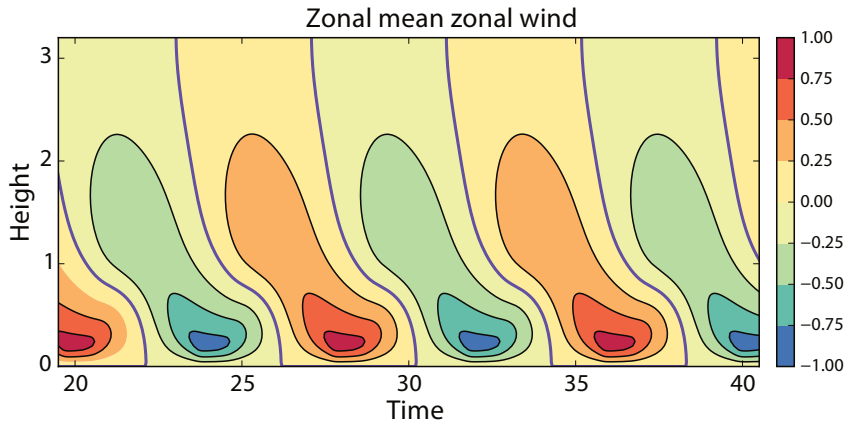


Fig. 17.18

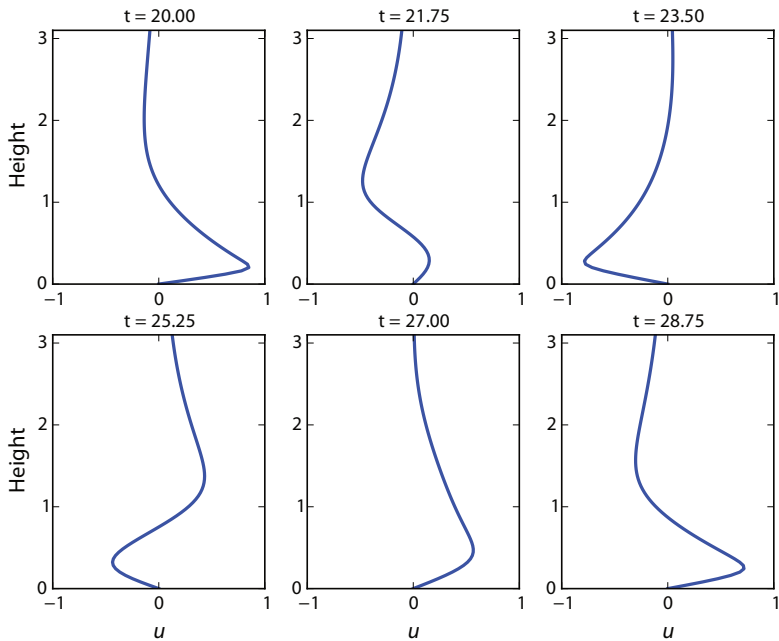


Fig. 17.19

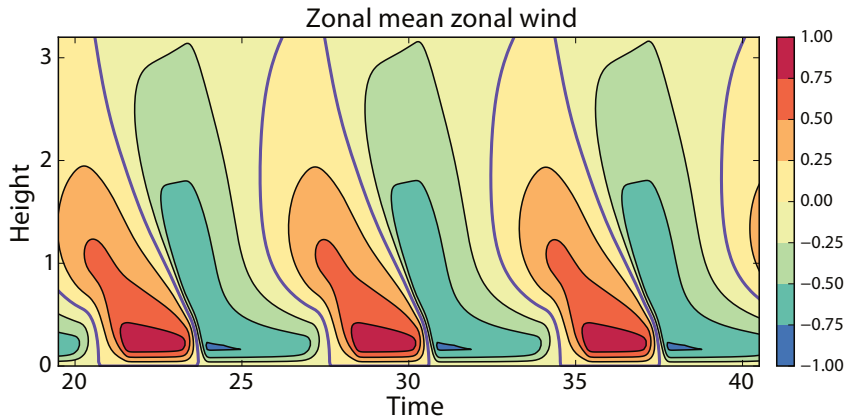


Fig. 17.20

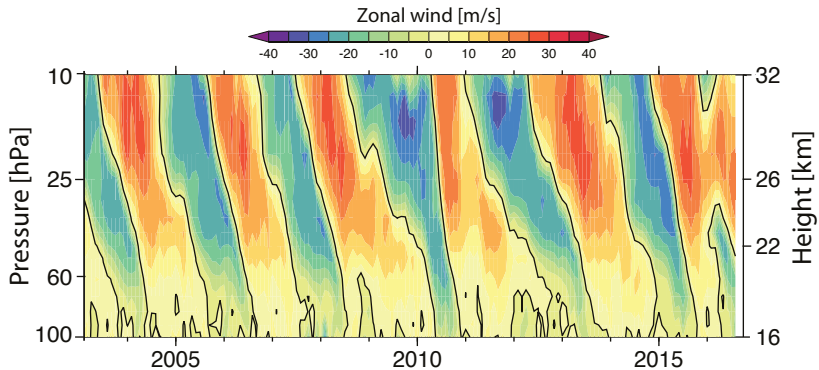


Fig. 17.21

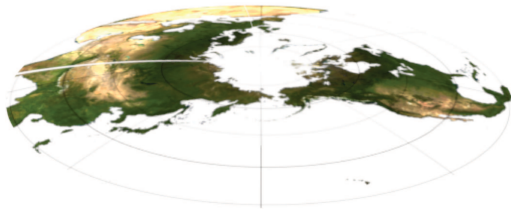
850



850



400



400

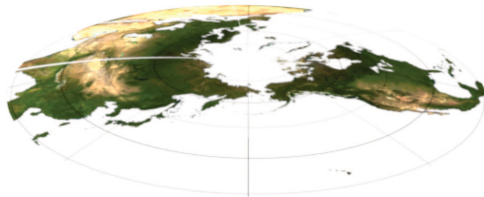
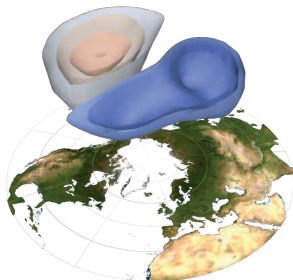
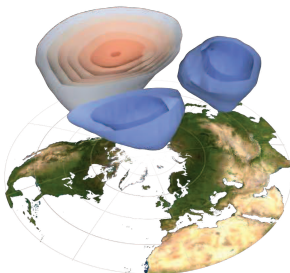


Fig. 17.22

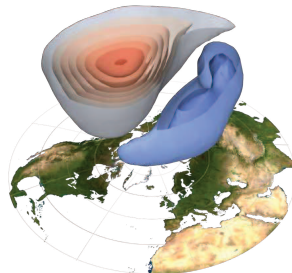
Feb 18 1984



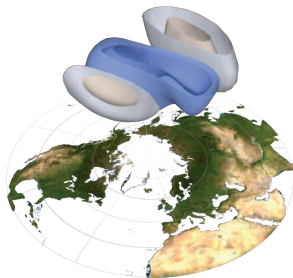
Feb 23 1984



Feb 28 1984



Feb 15 1979



Feb 19 1979



Feb 23 1979

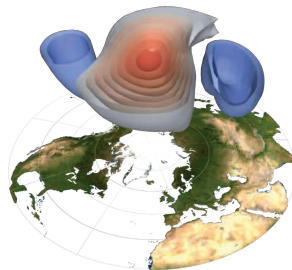


Fig. 17.23

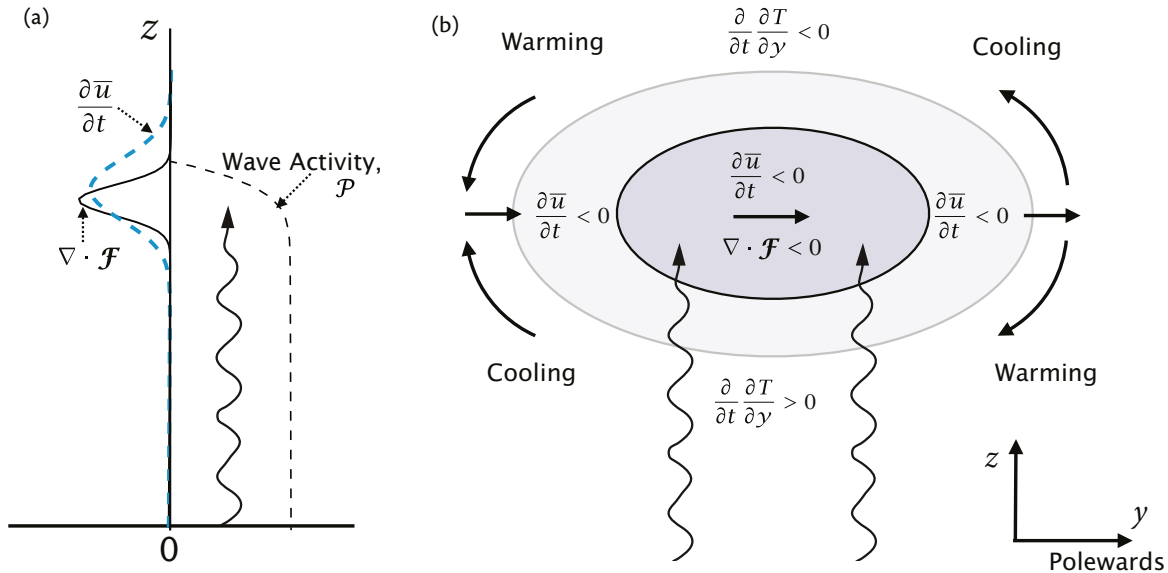


Fig. 17.24

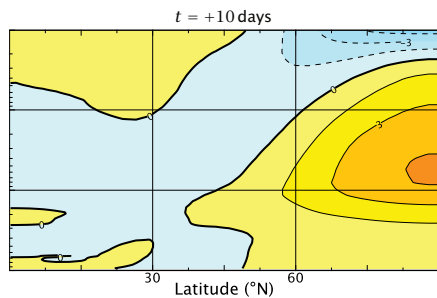
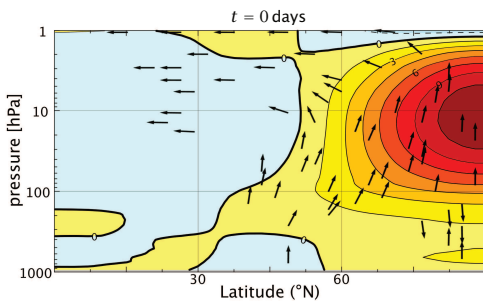
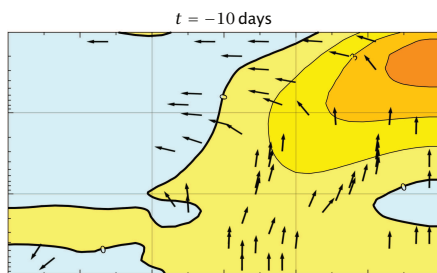
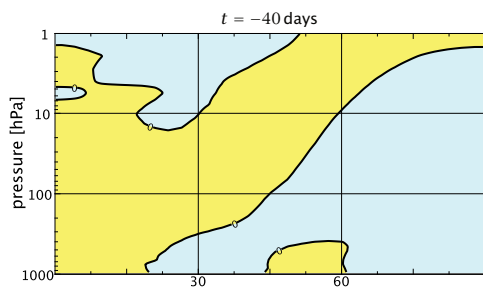
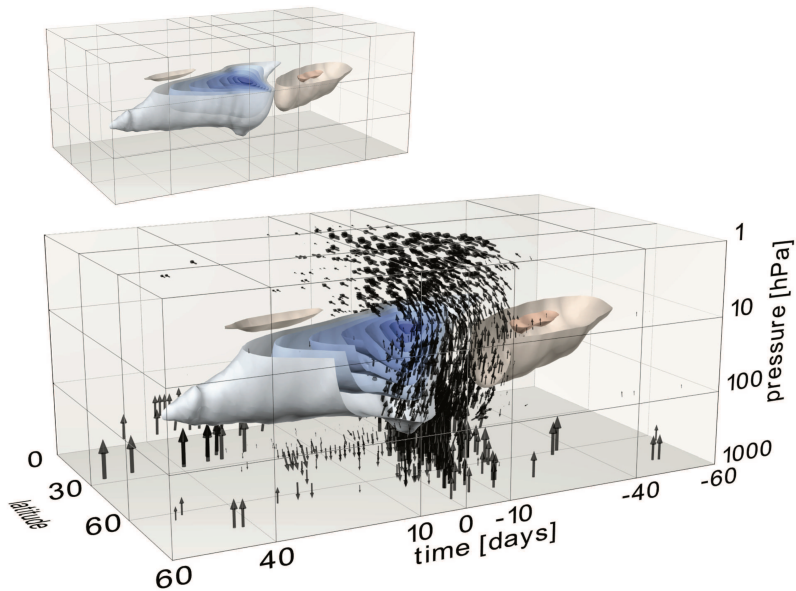


Fig. 17.25

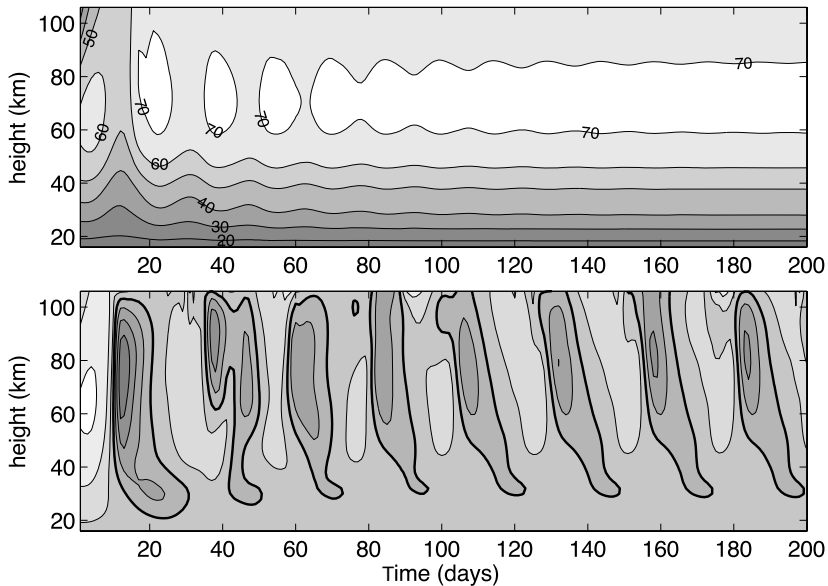


Fig. 17.26

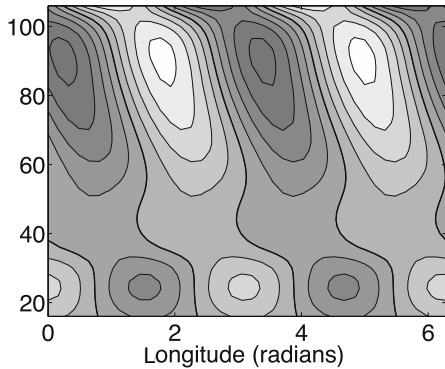
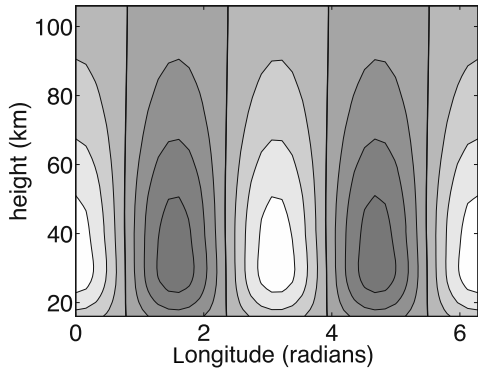


Fig. 17.27

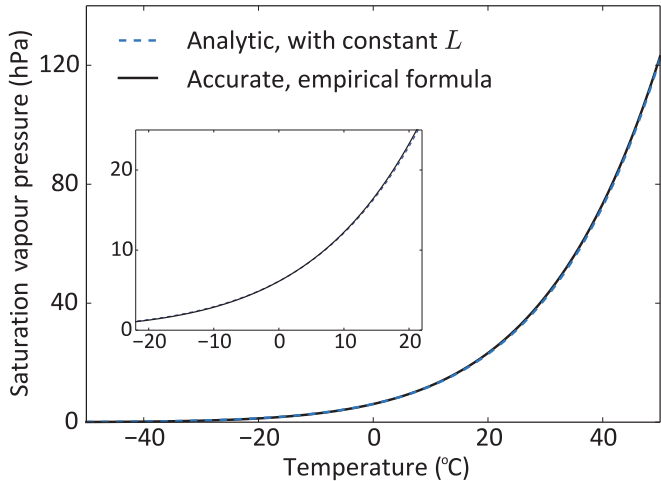


Fig. 18.1

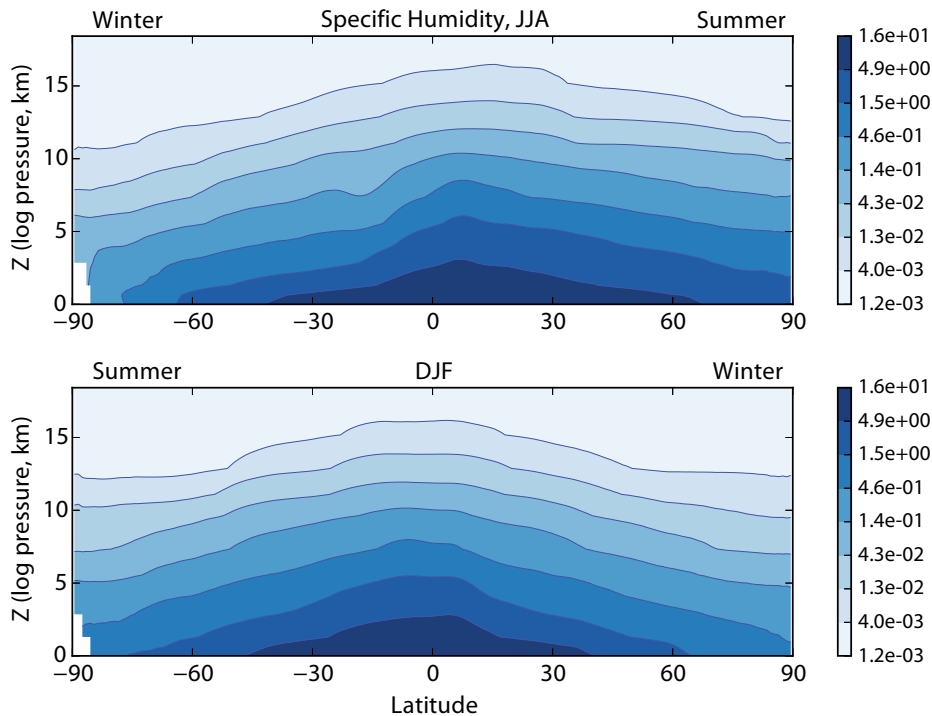


Fig. 18.2

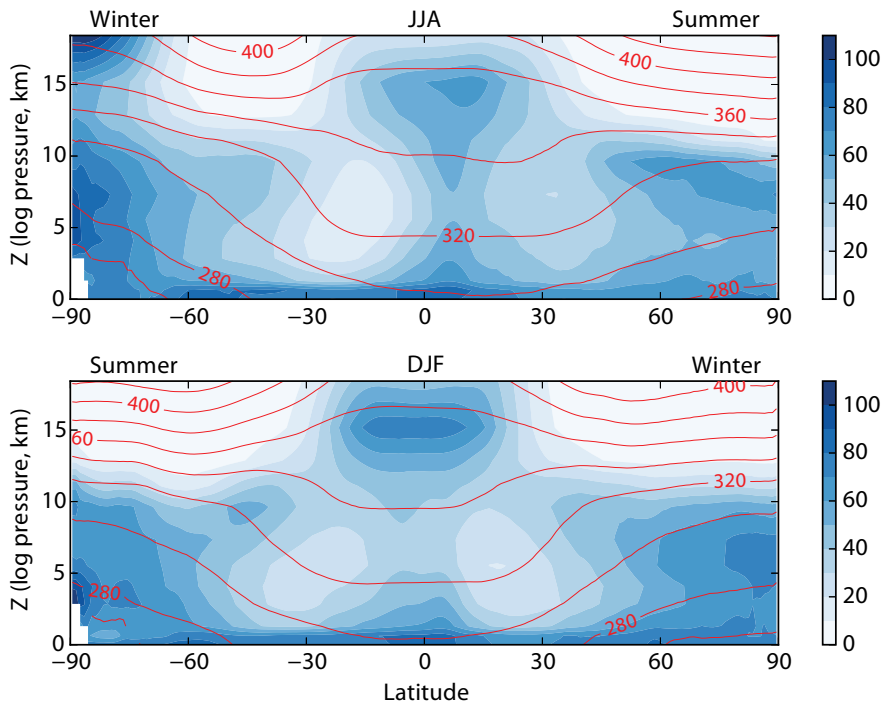


Fig. 18.3

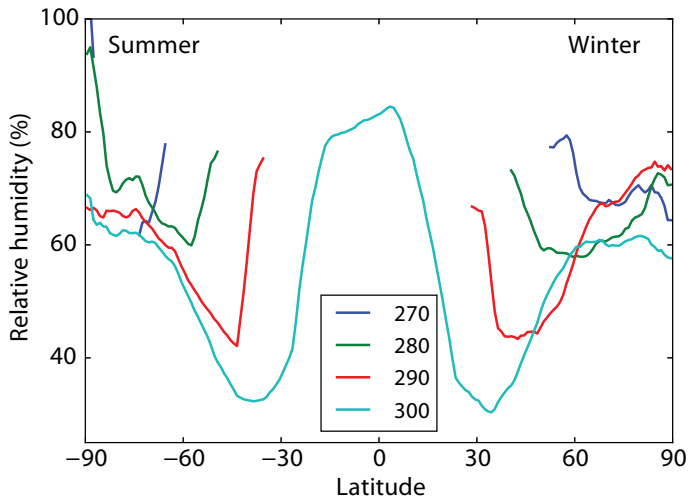


Fig. 18.4

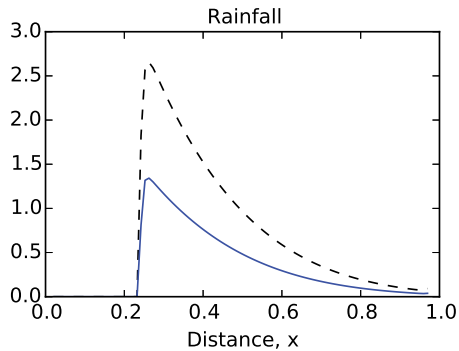
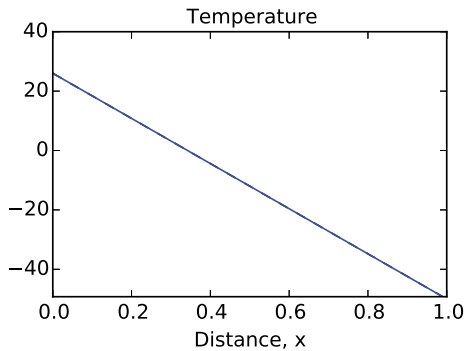
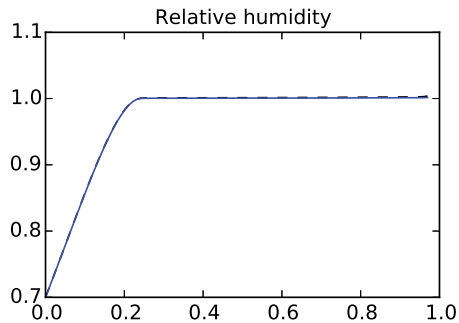
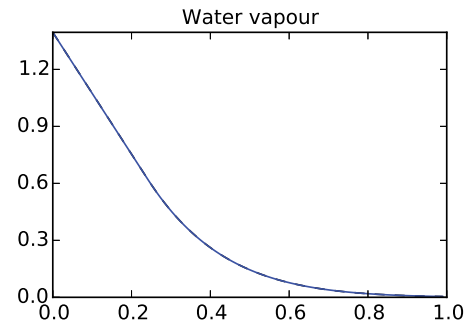


Fig. 18.5

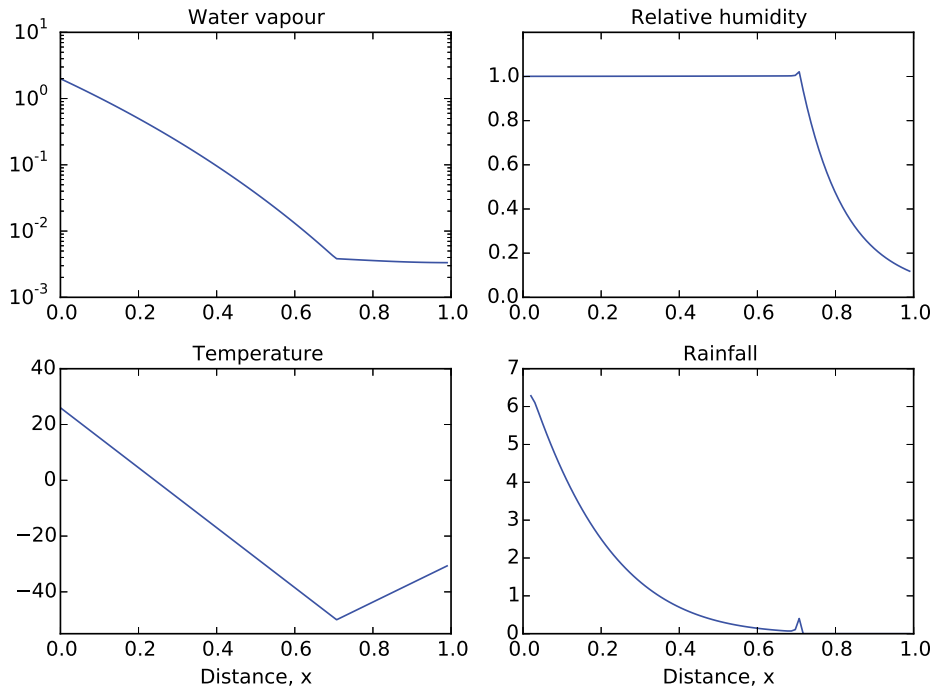


Fig. 18.6

RH, Annual Mean, 925 hPa

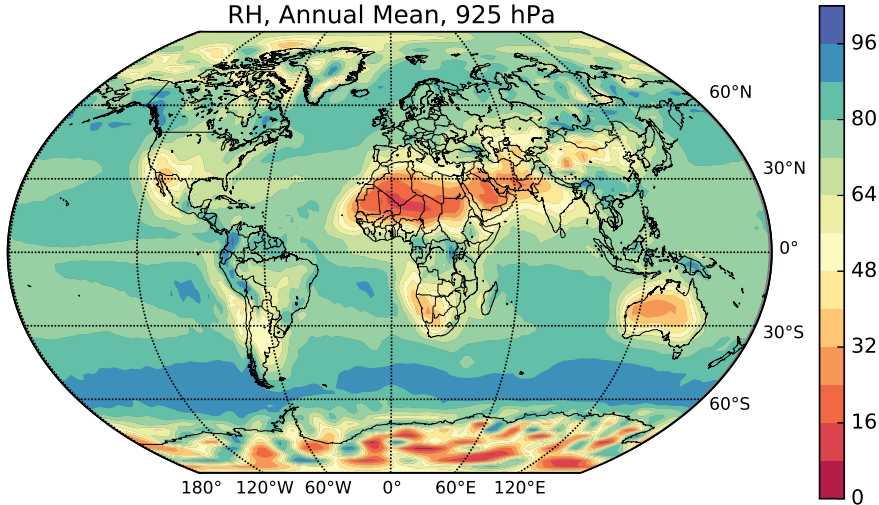


Fig. 18.7

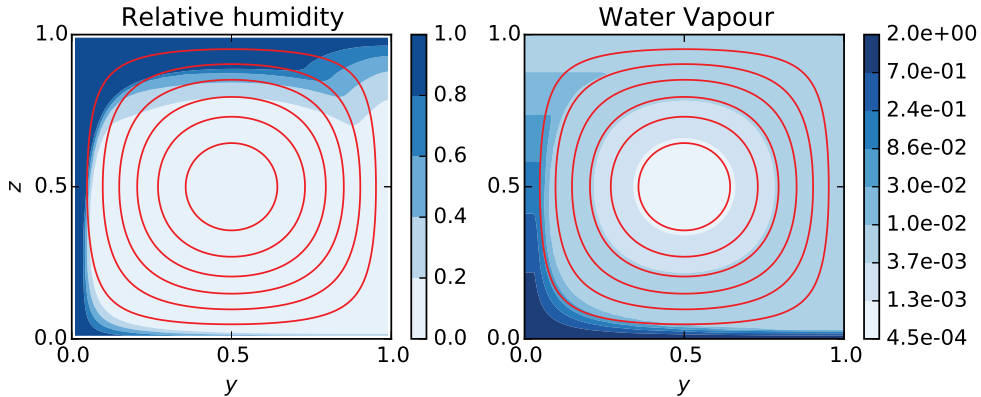


Fig. 18.8

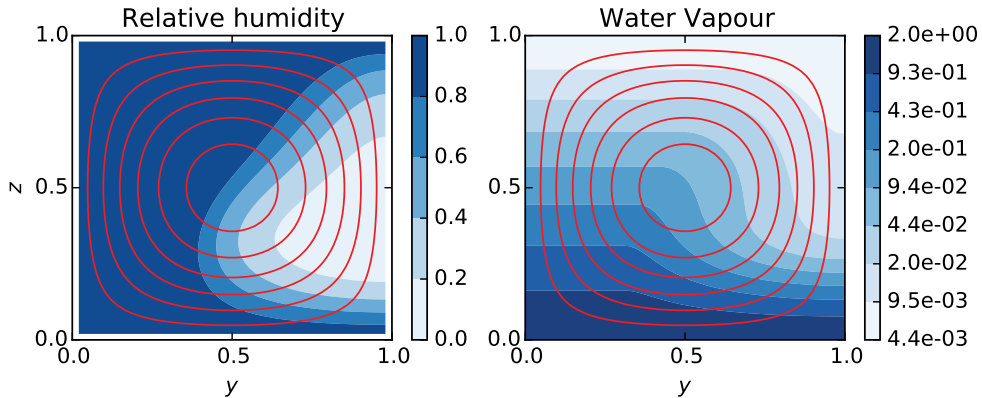


Fig. 18.9

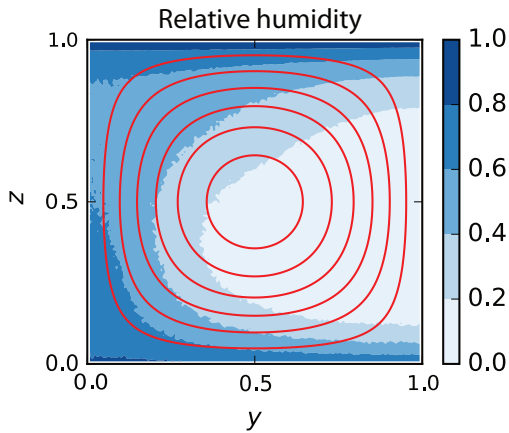
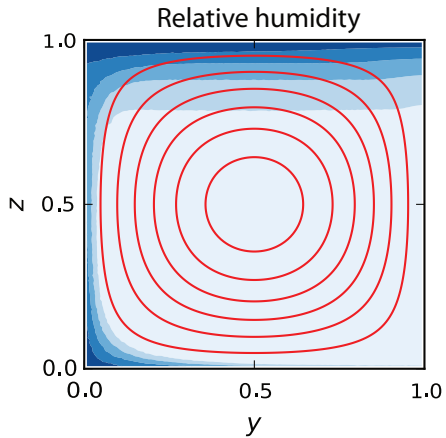


Fig. 18.10

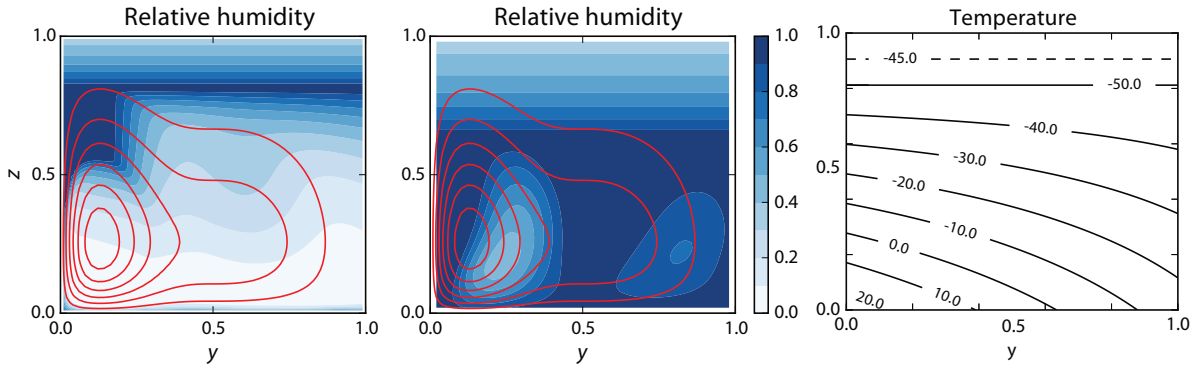


Fig. 18.11

Relative humidity, 500 hPa

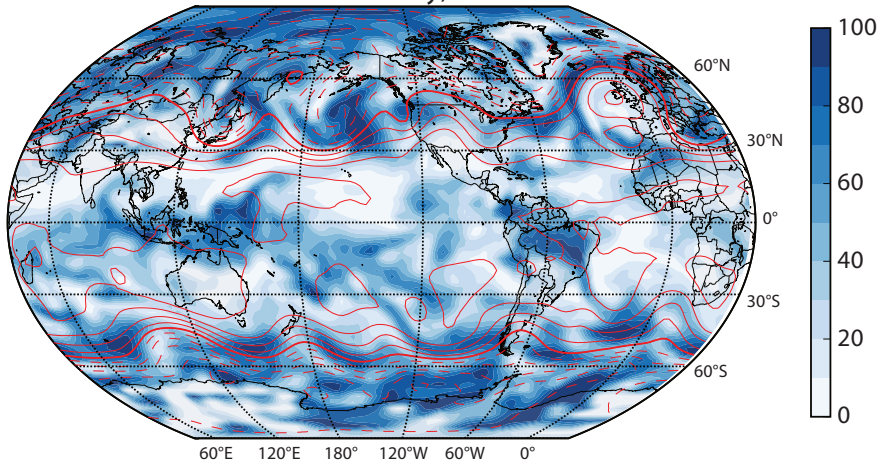


Fig. 18.12

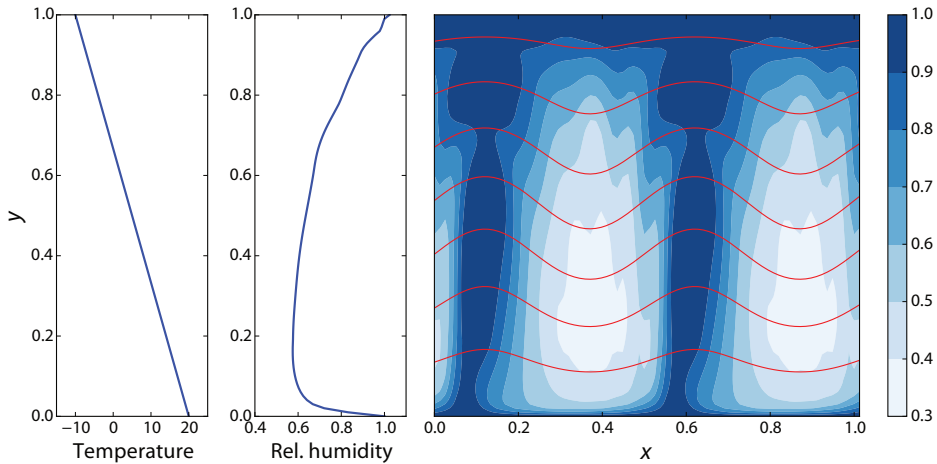


Fig. 18.13

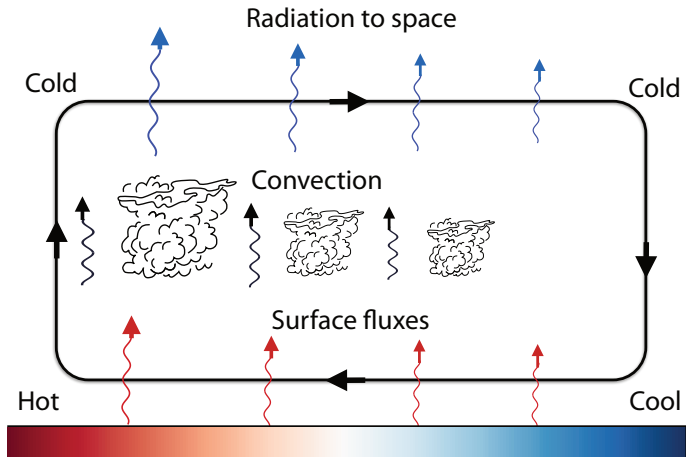


Fig. 18.14

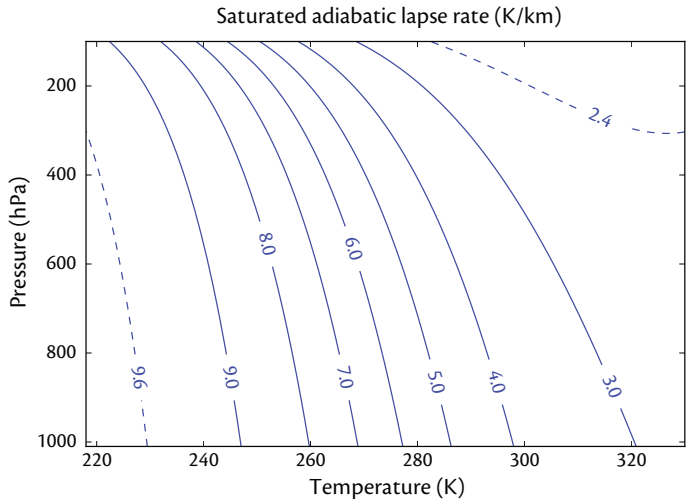


Fig. 18.15

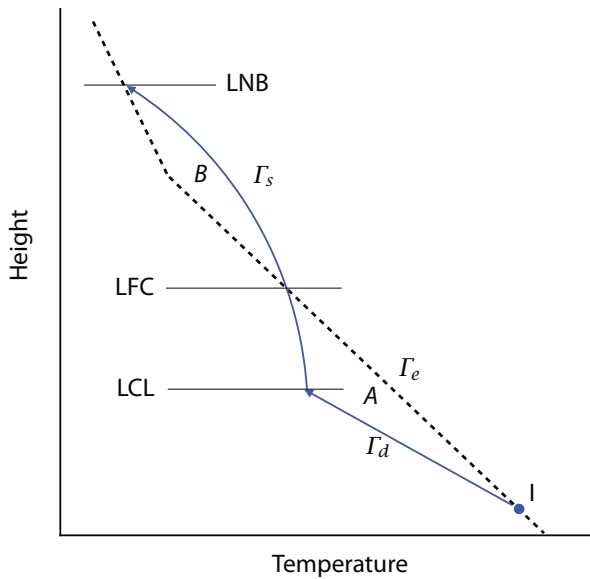


Fig. 18.16

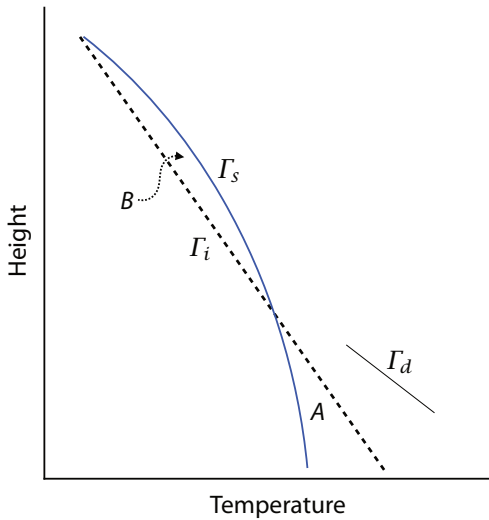
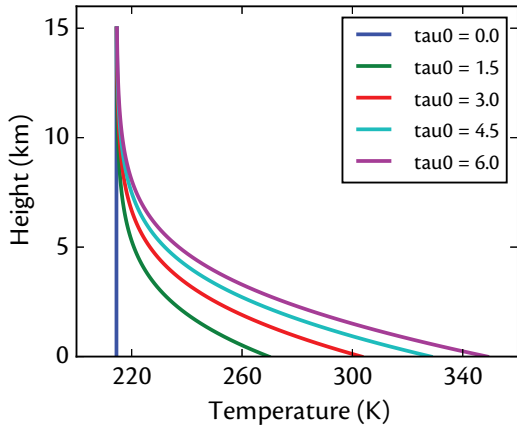


Fig. 18.17

Varying optical depth



Varying outgoing IR

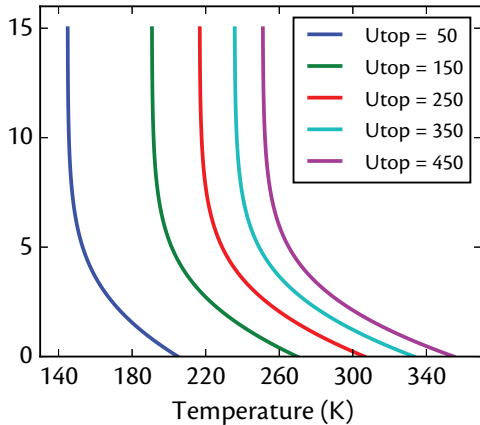


Fig. 18.18

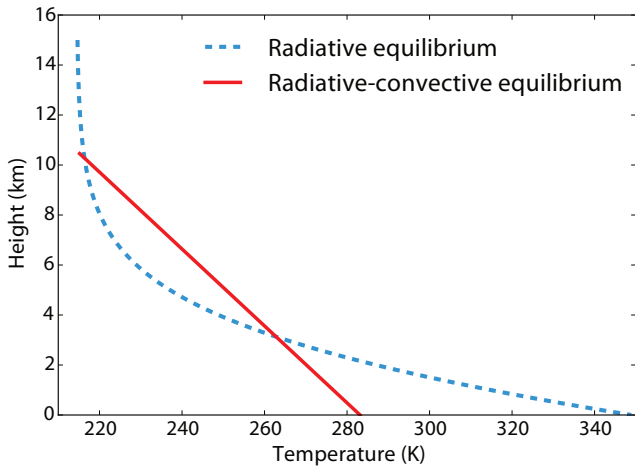


Fig. 18.19

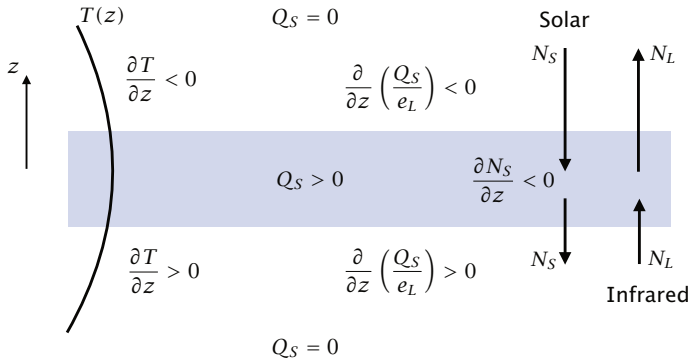


Fig. 18.20

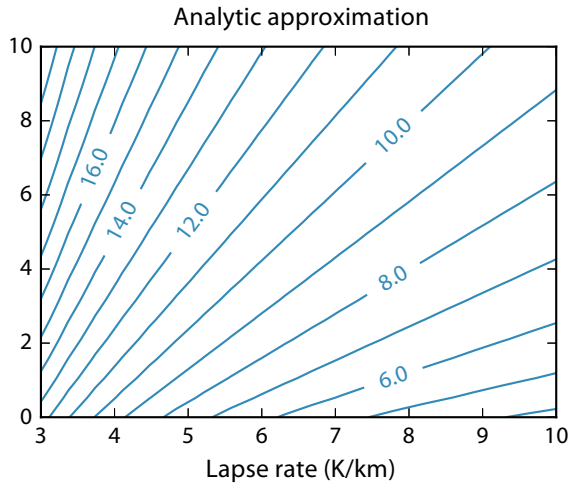
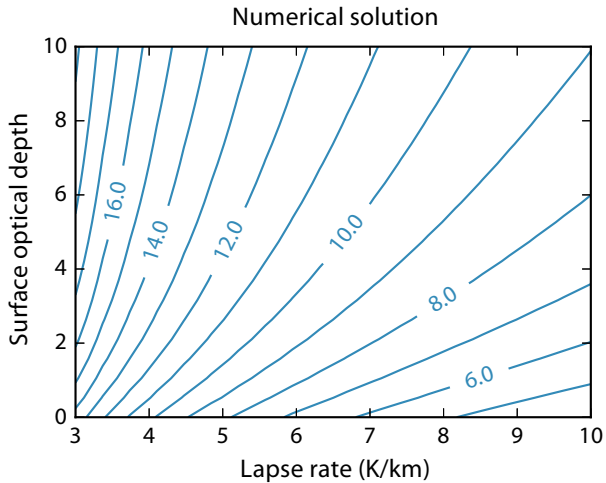
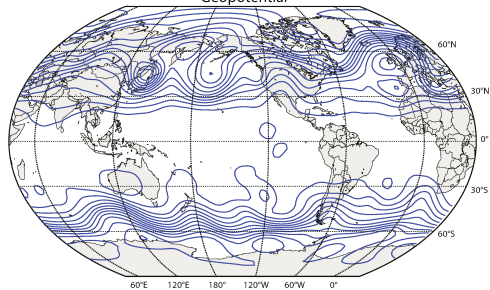
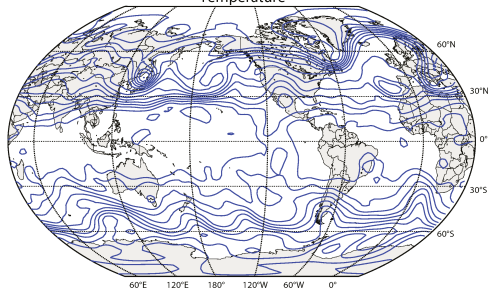


Fig. 18.21

Geopotential



Temperature



Zonal wind

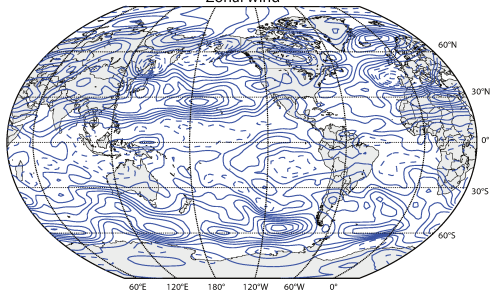


Fig. 18.22

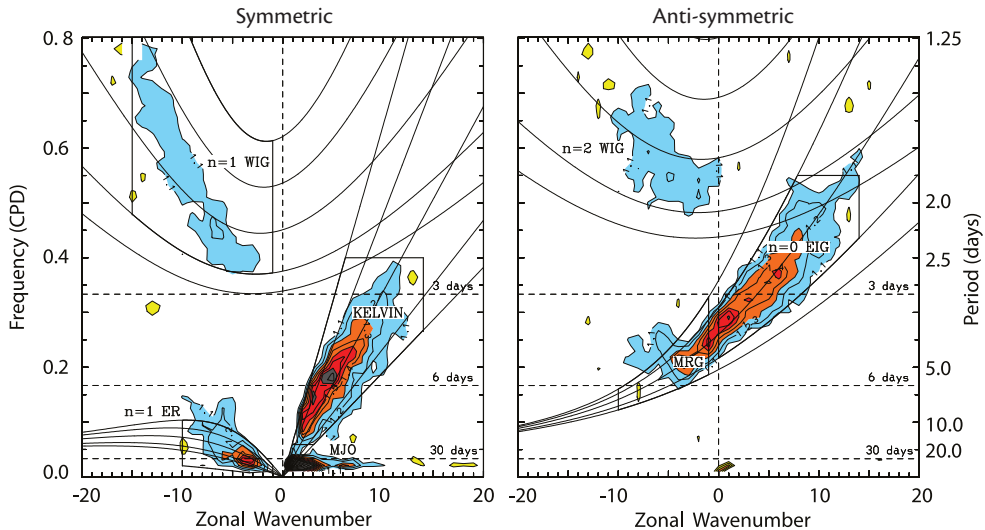


Fig. 18.23

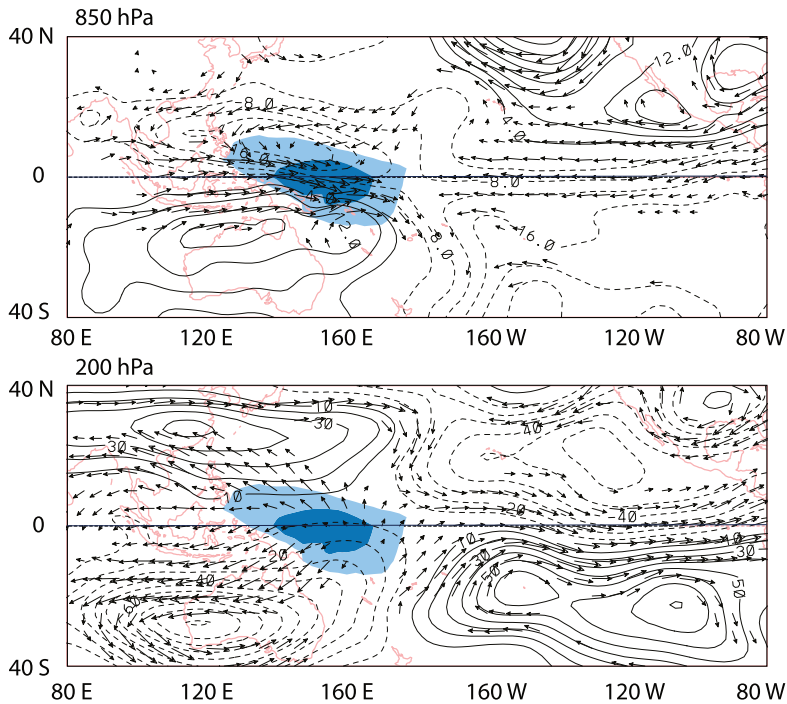


Fig. 18.24

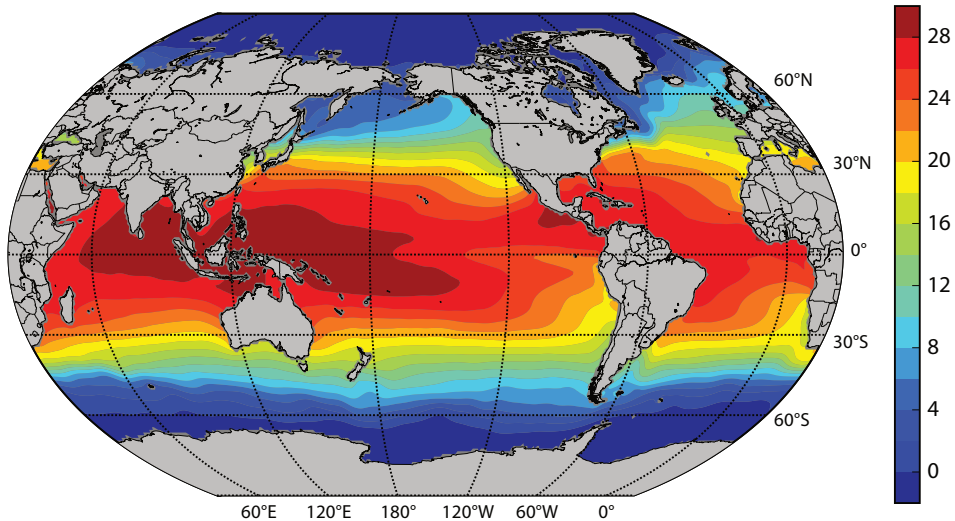


Fig. 19.1

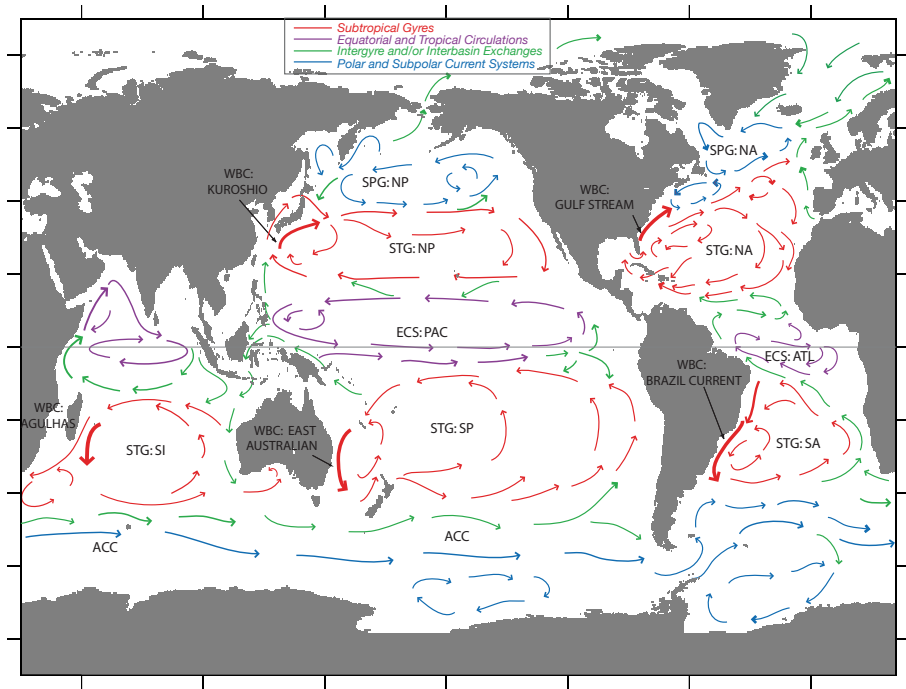


Fig. 19.2

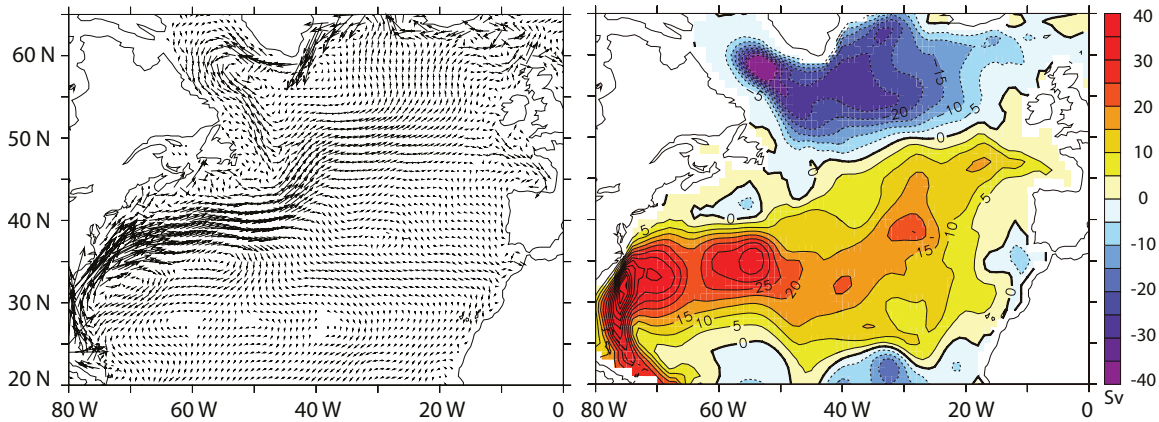


Fig. 19.3

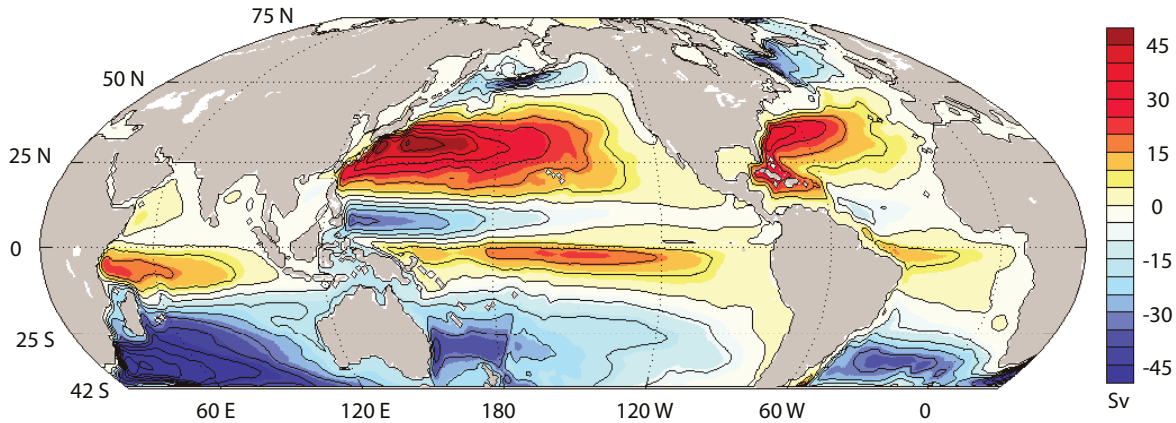
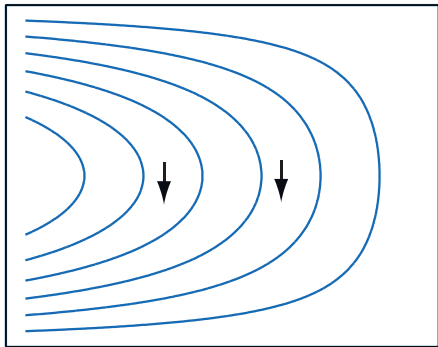
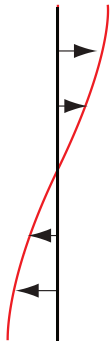


Fig. 19.4

Western boundary layer



Wind stress



Eastern boundary layer

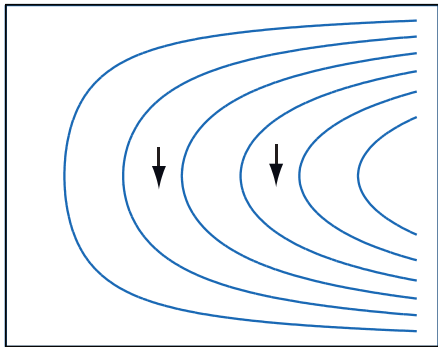
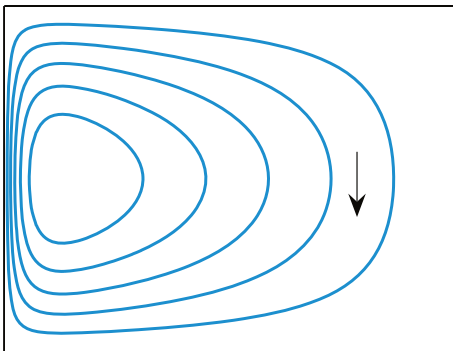


Fig. 19.5

Streamfunction



Wind stress

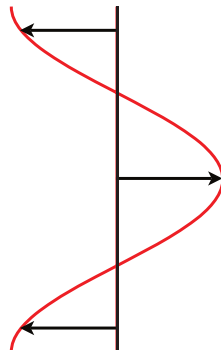
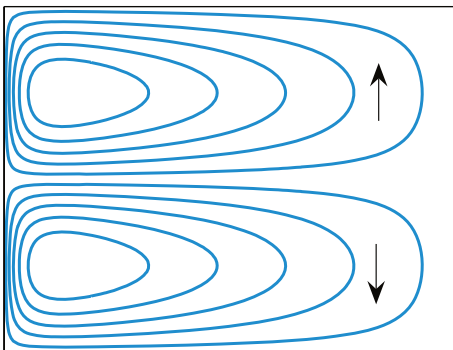
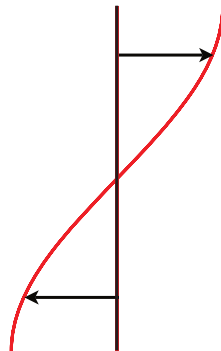
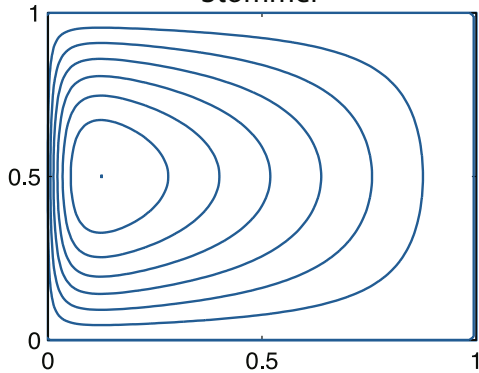


Fig. 19.6

Stommel



Munk

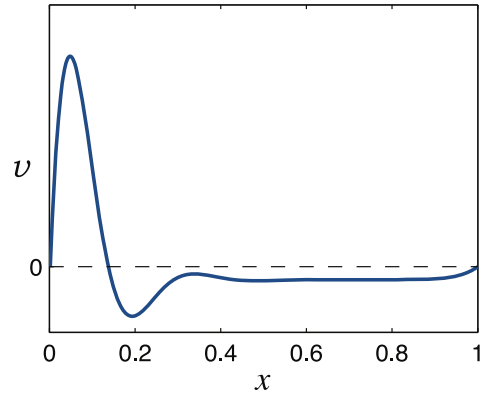
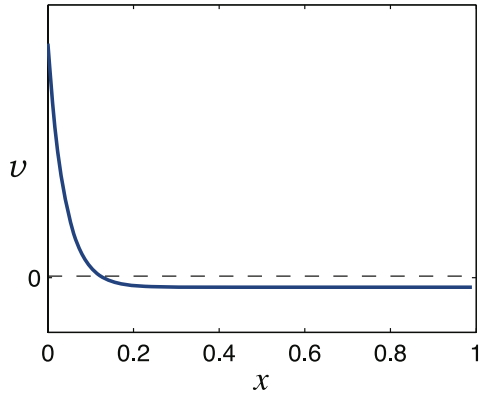
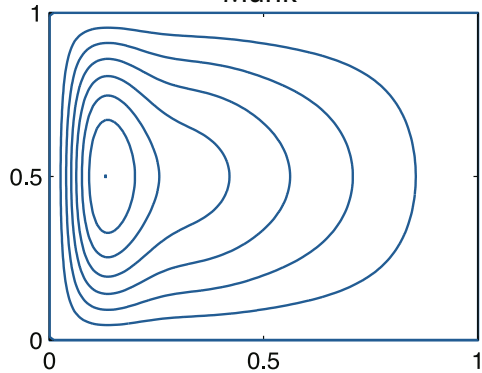


Fig. 19.7

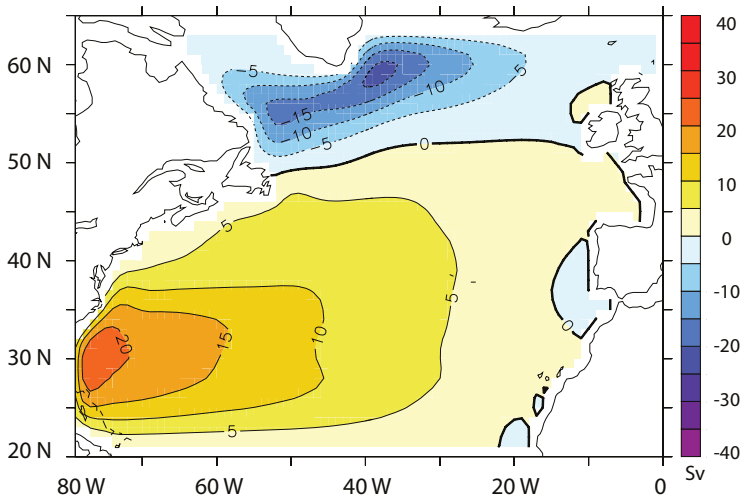


Fig. 19.8

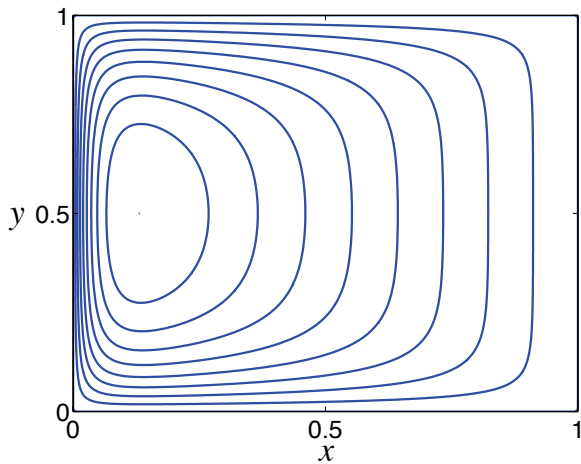
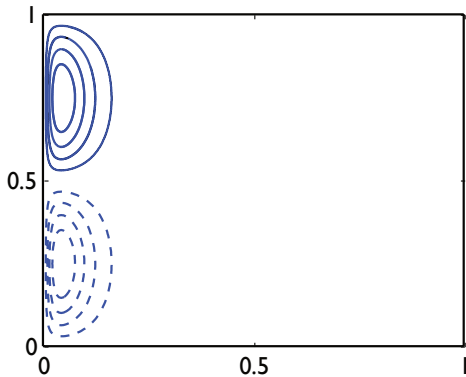


Fig. 19.9

Perturbation



Stommel + Perturbation

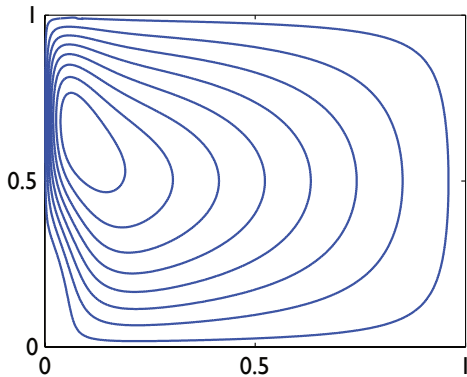


Fig. 19.10

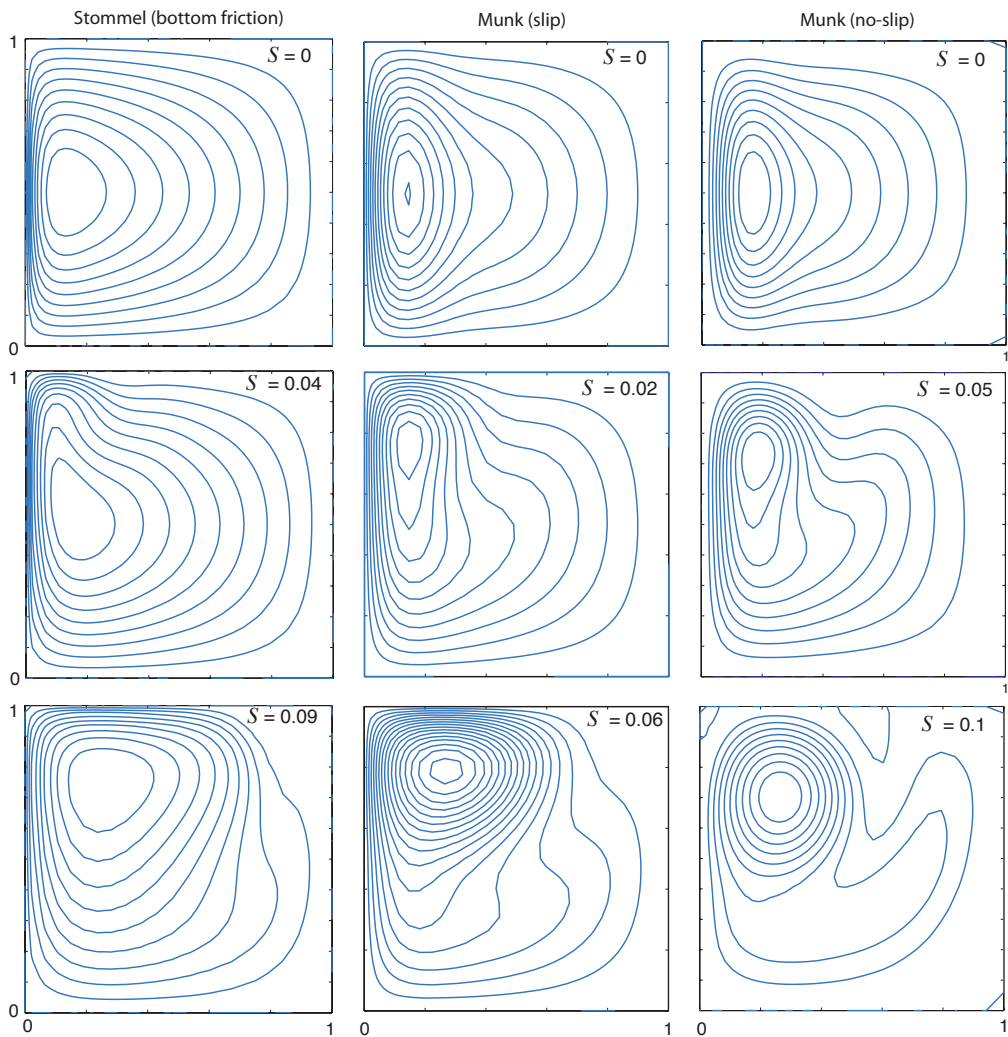


Fig. 19.11

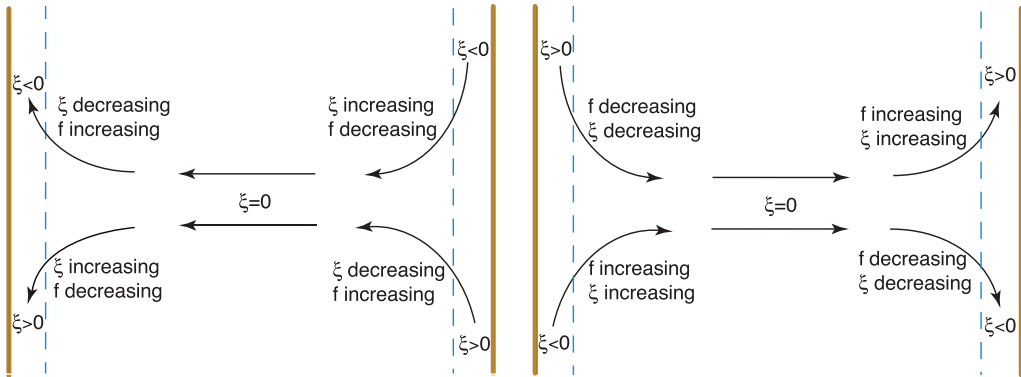


Fig. 19.12

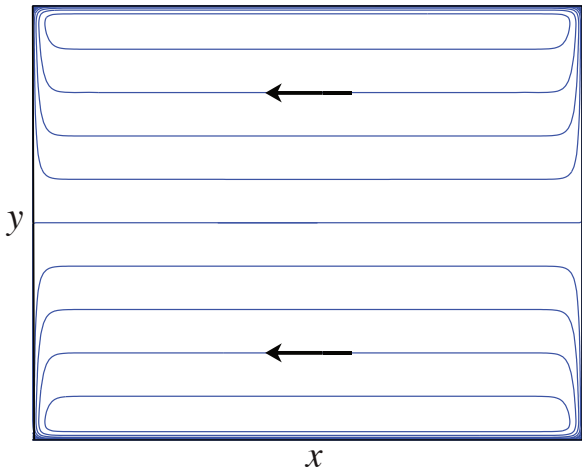


Fig. 19.13

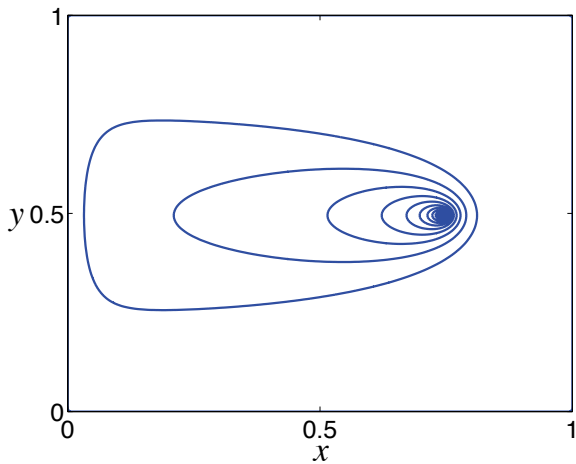


Fig. 19.14

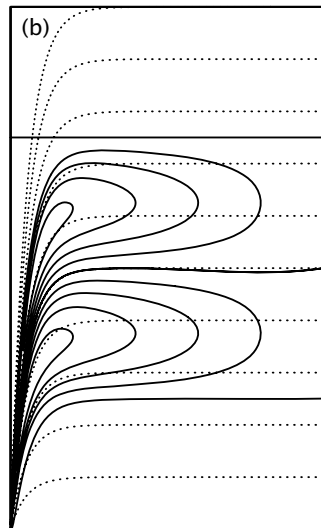
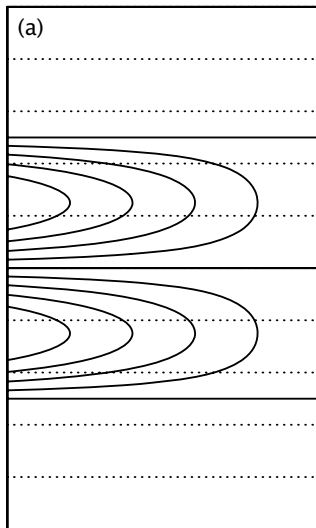


Fig. 19.15

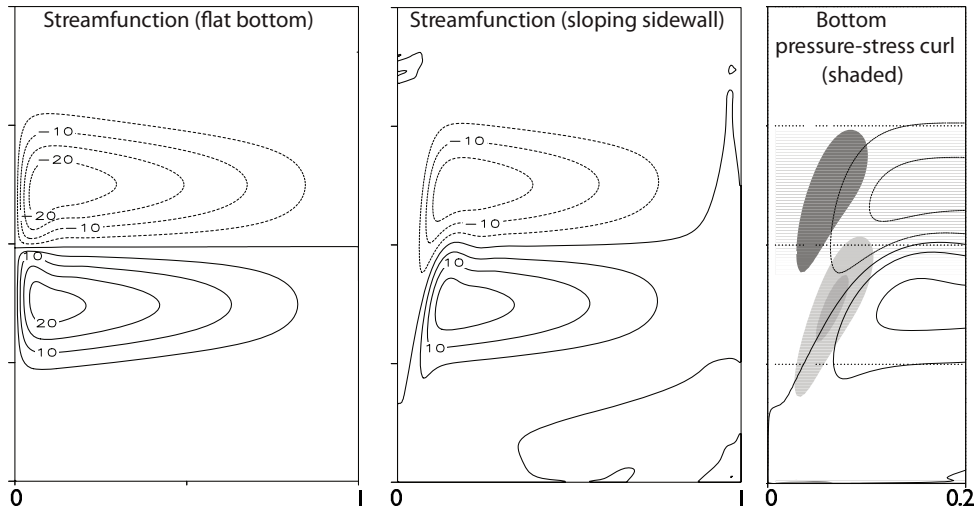


Fig. 19.16

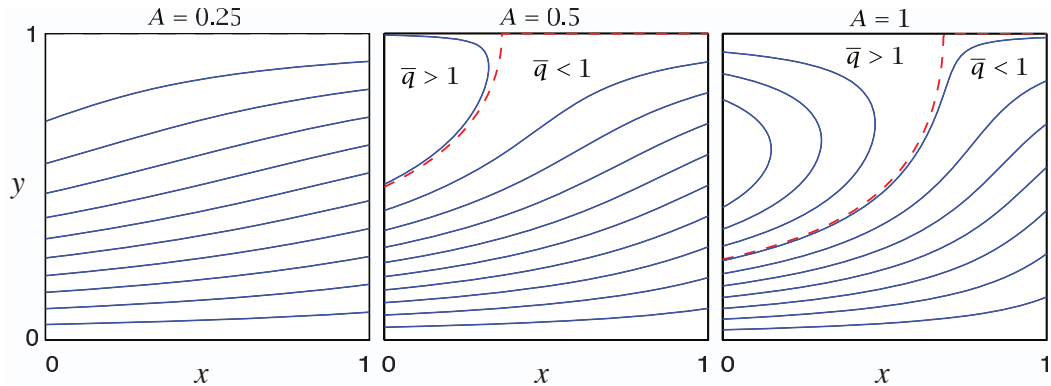


Fig. 20.1

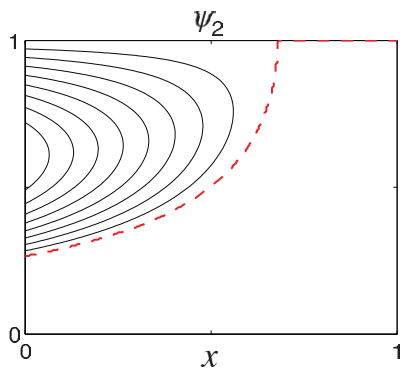
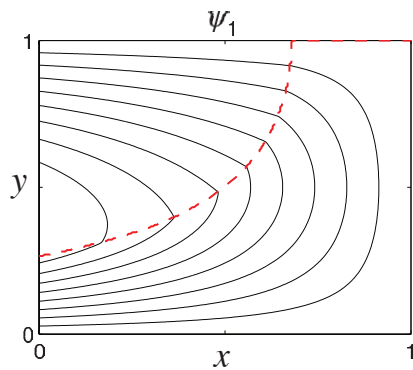
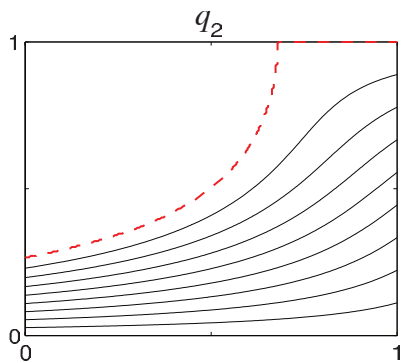
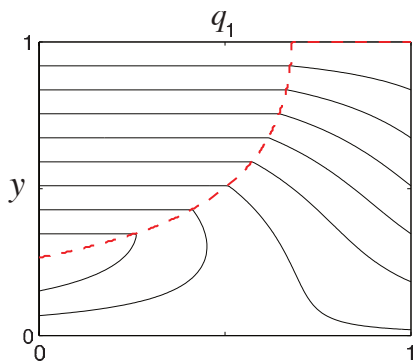
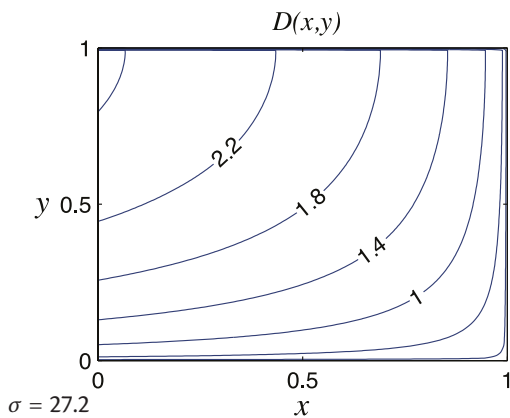


Fig. 20.2

$\sigma = 26.0$



$\sigma = 26.5$

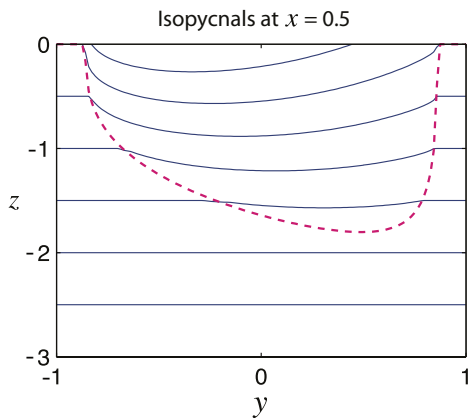
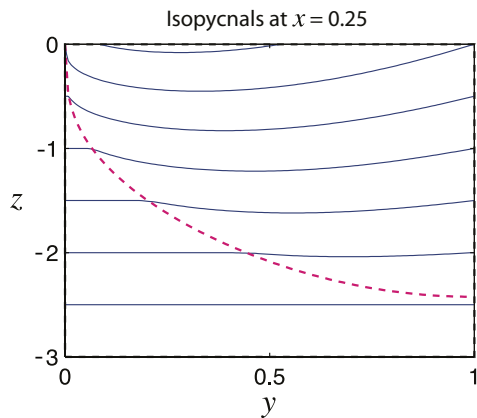
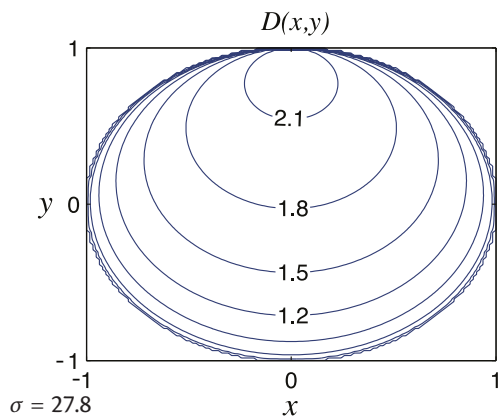
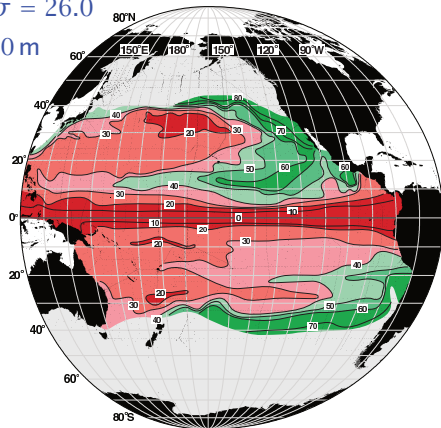


Fig. 20.3

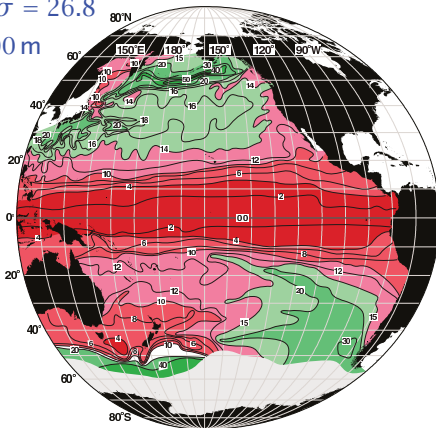
PV on $\sigma = 26.0$

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



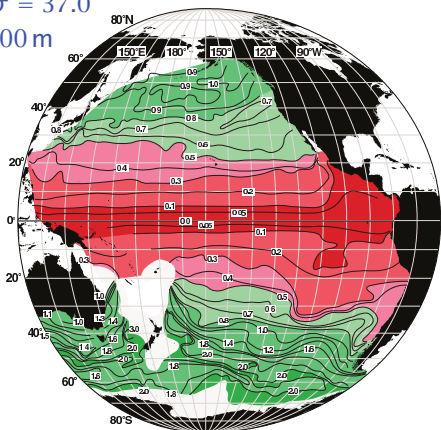
PV on $\sigma = 26.8$

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



PV on $\sigma = 37.0$

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



PV on $\sigma = 26.8$

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

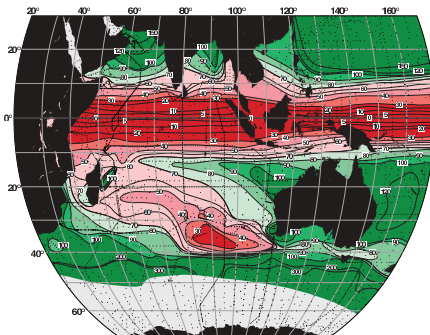
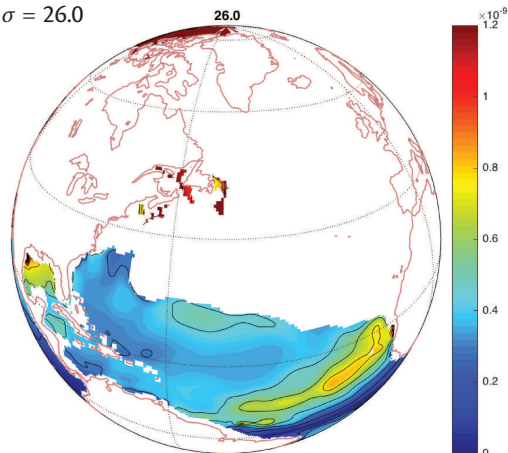
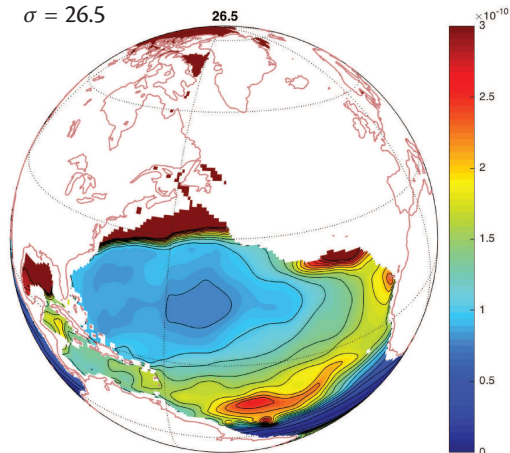


Fig. 20.4

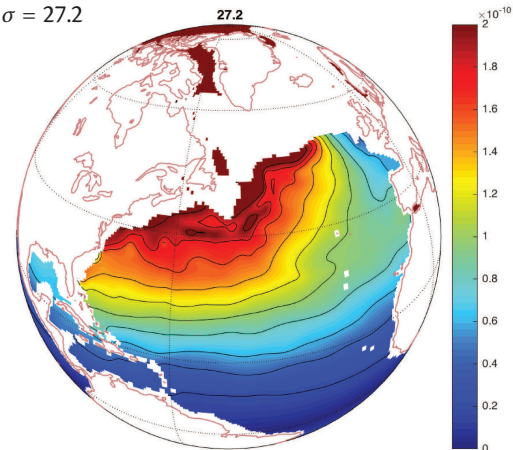
$\sigma = 26.0$



$\sigma = 26.5$



$\sigma = 27.2$



$\sigma = 27.8$

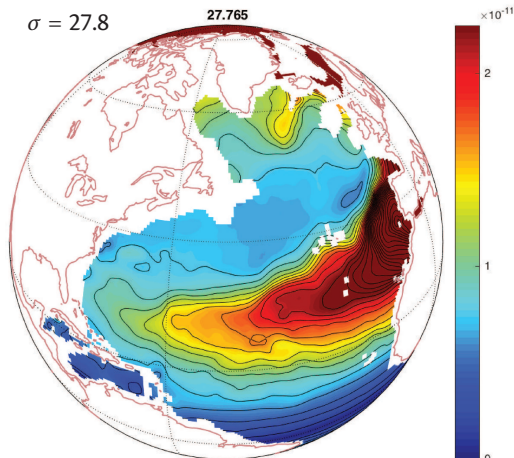


Fig. 20.5

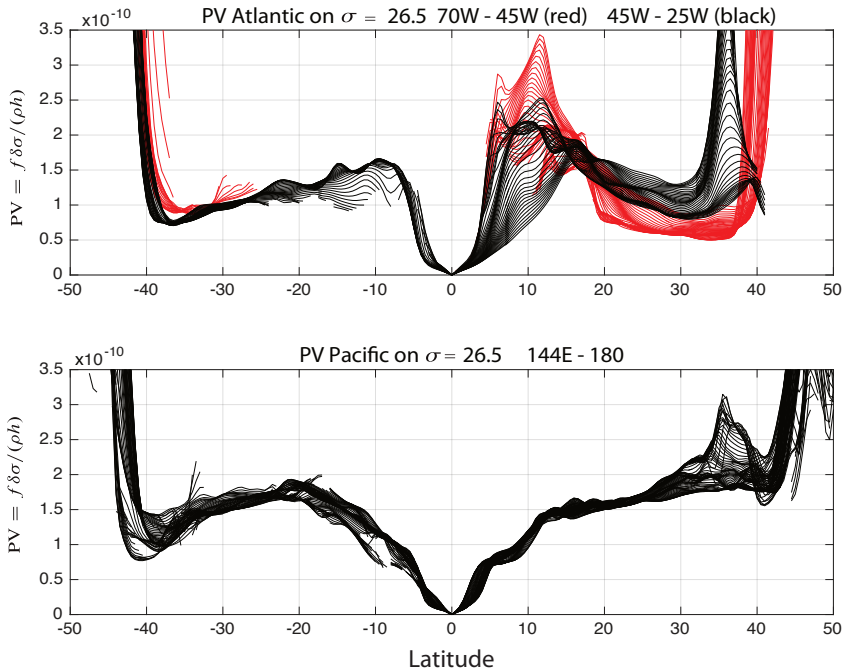


Fig. 20.6

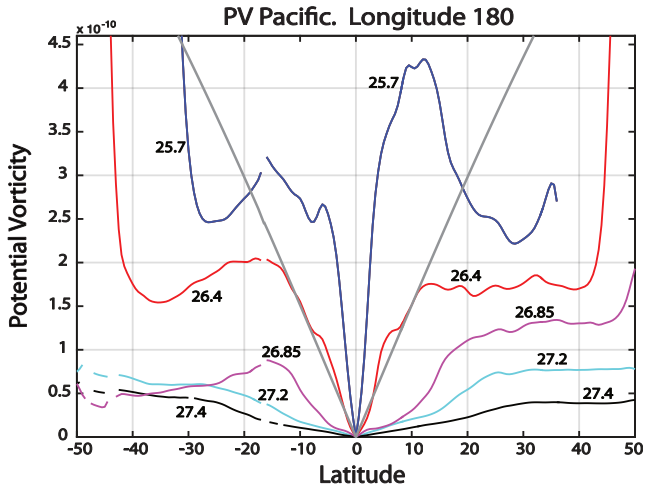


Fig. 20.7

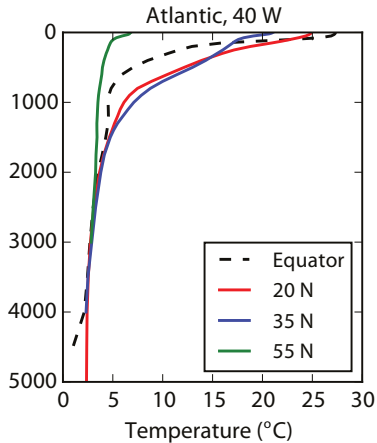
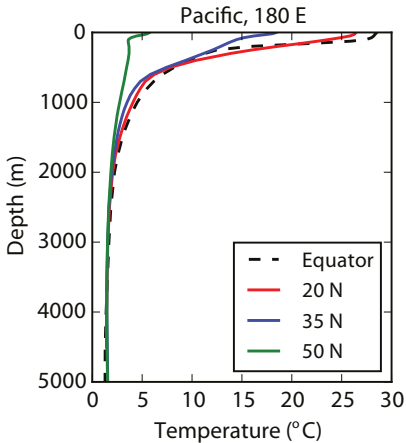


Fig. 20.9

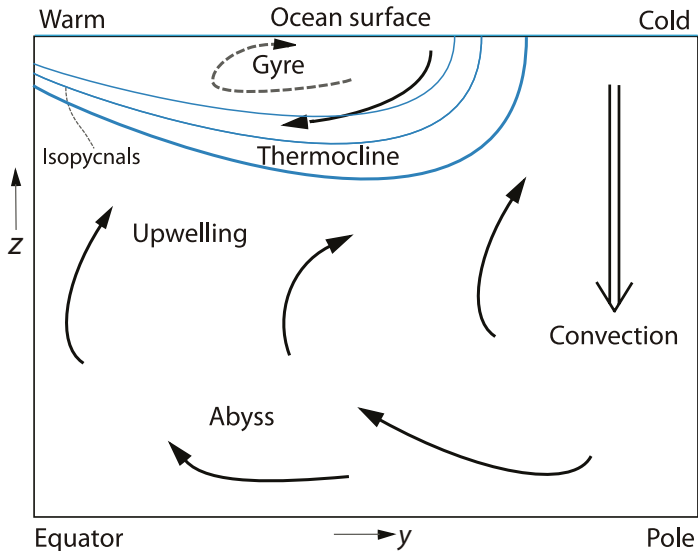


Fig. 20.10

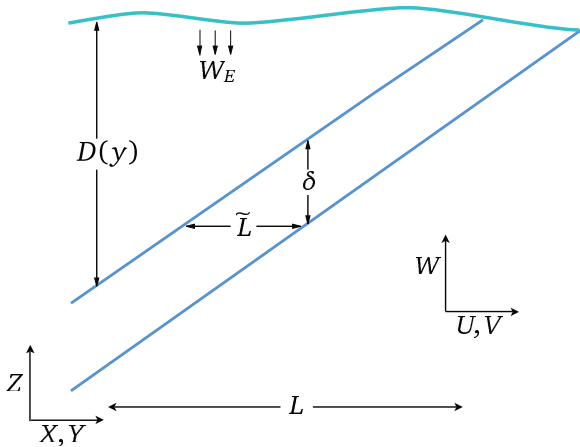


Fig. 20.11

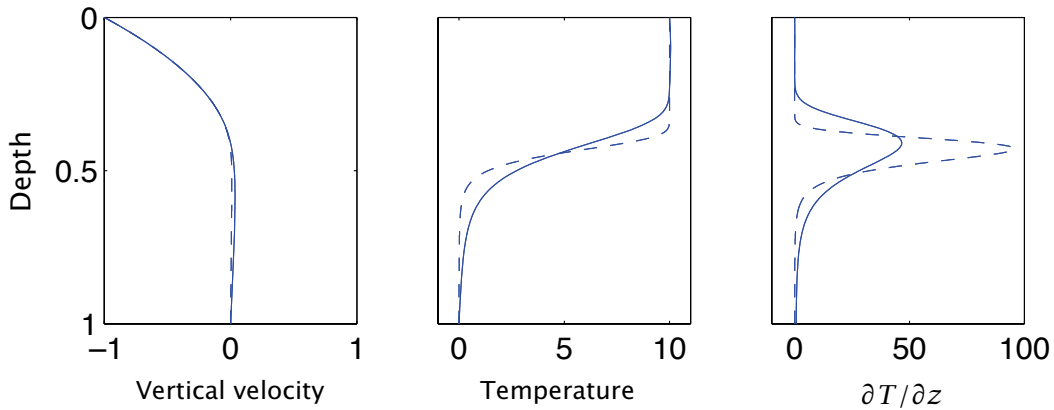


Fig. 20.12

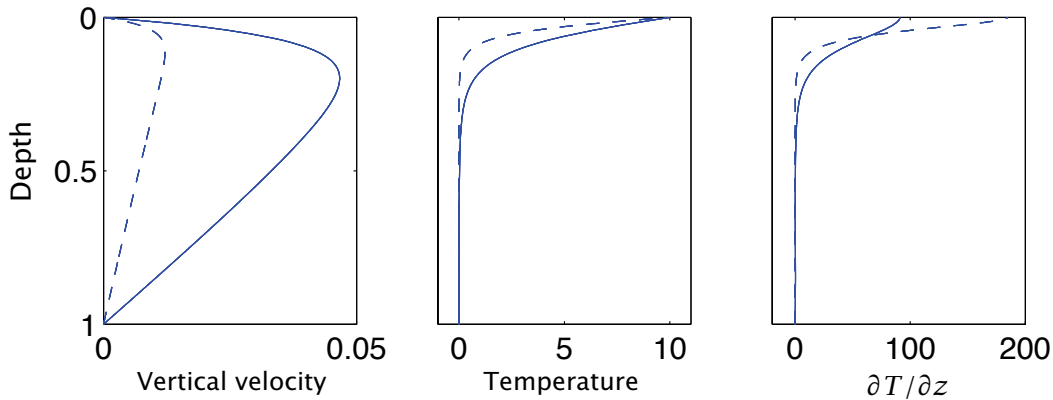


Fig. 20.13

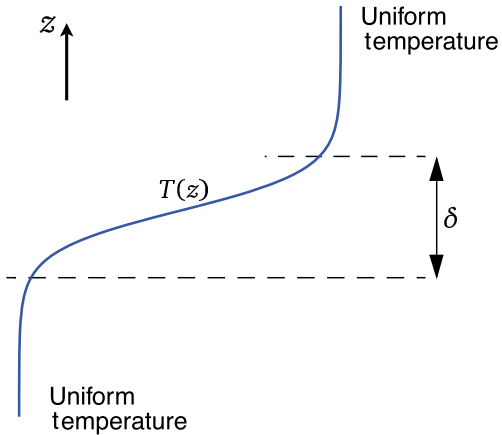
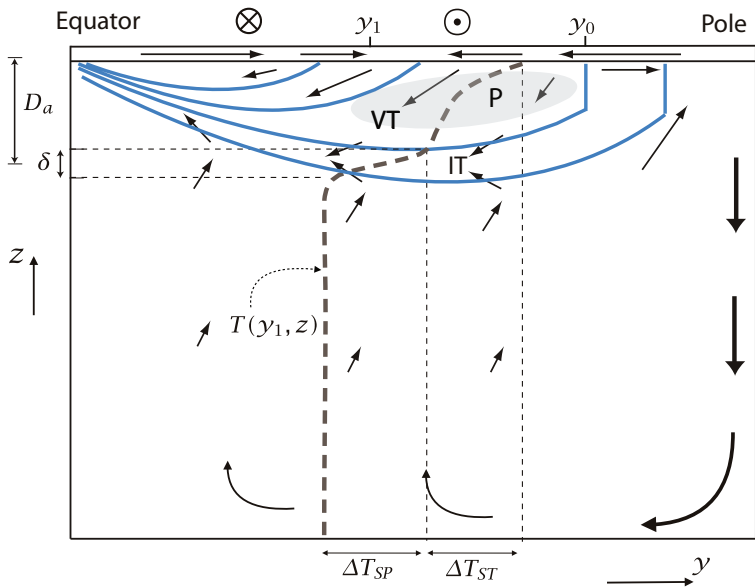


Fig. 20.14



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

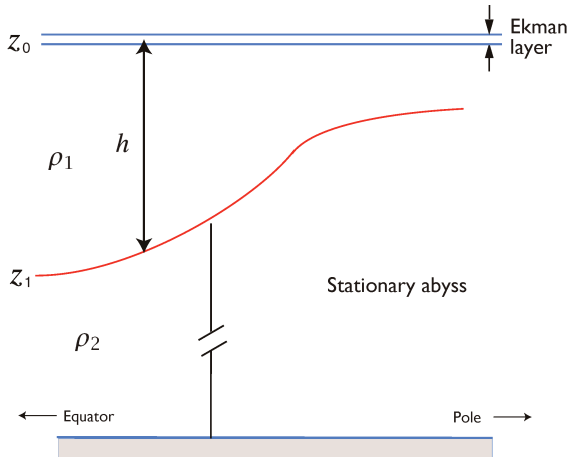


Fig. 20.16

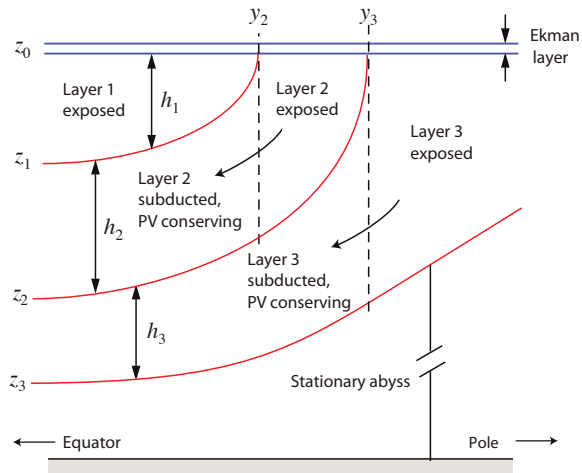
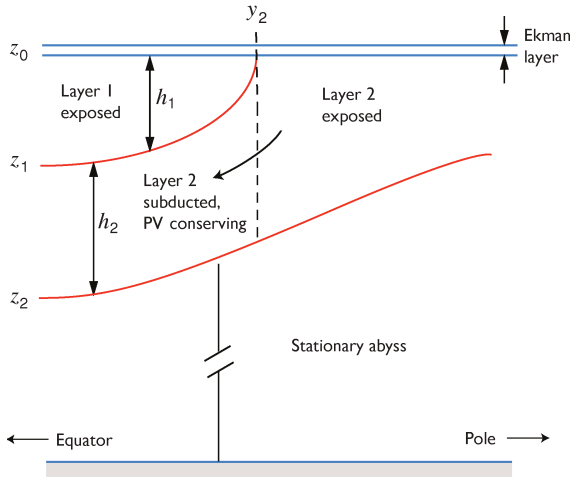


Fig. 20.17

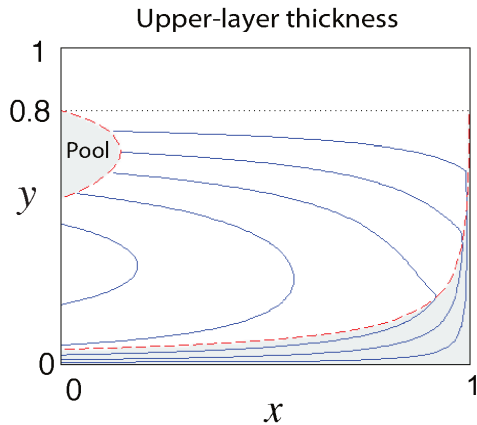
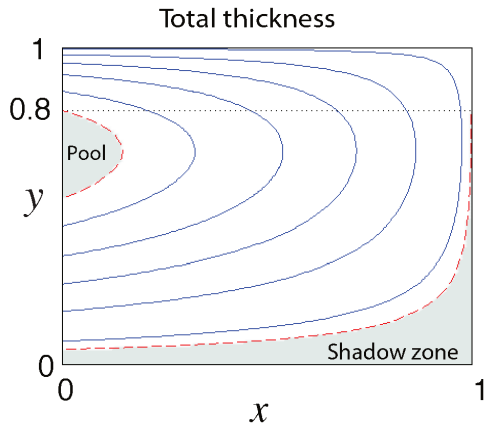


Fig. 20.18

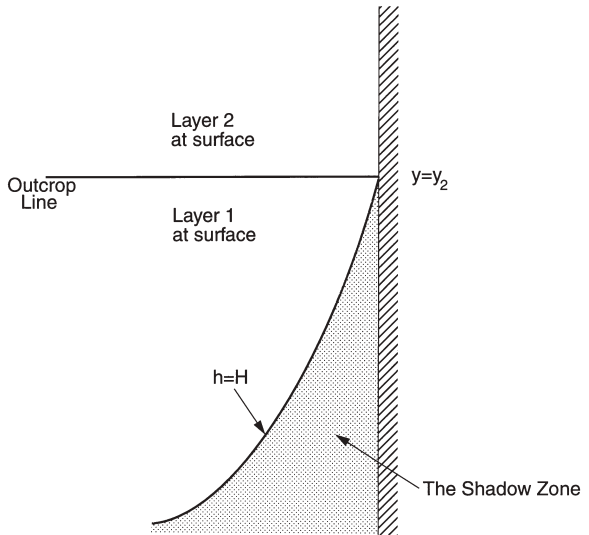
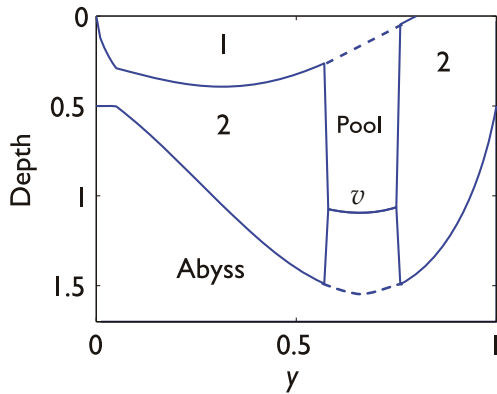


Fig. 20.19

Section at $x = 0.1$



Section at $x = 0.75$

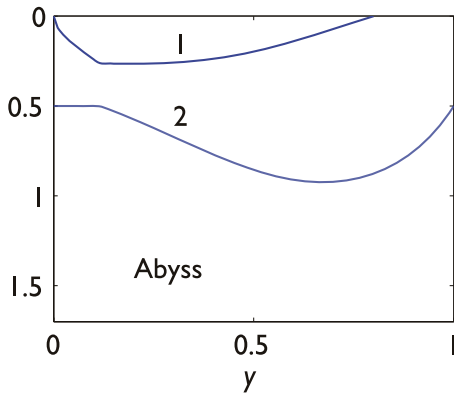


Fig. 20.20

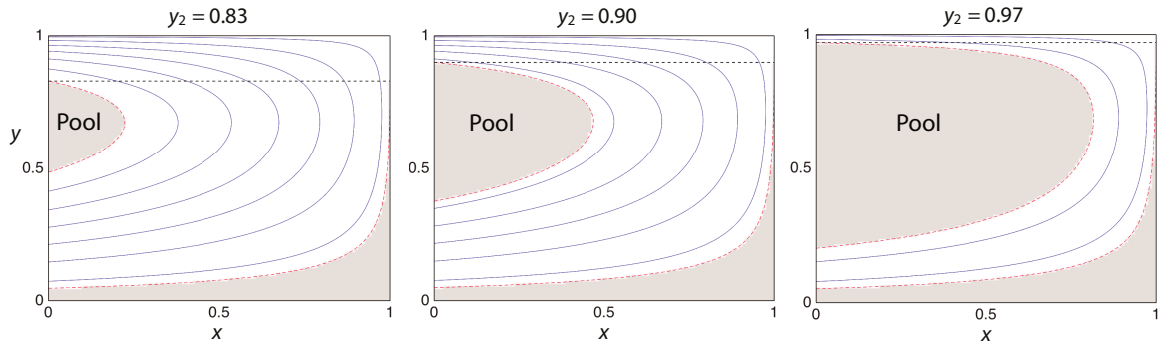


Fig. 20.21

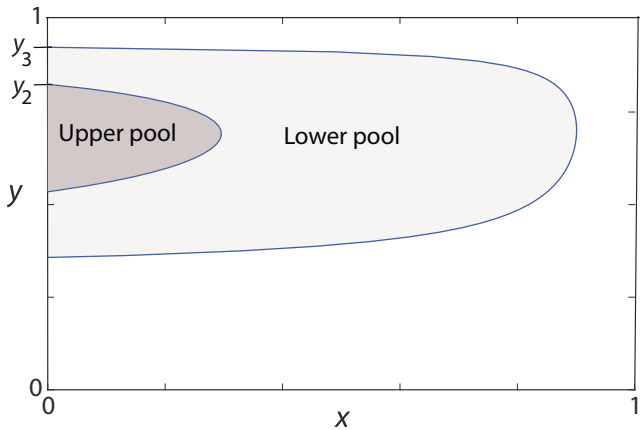


Fig. 20.22

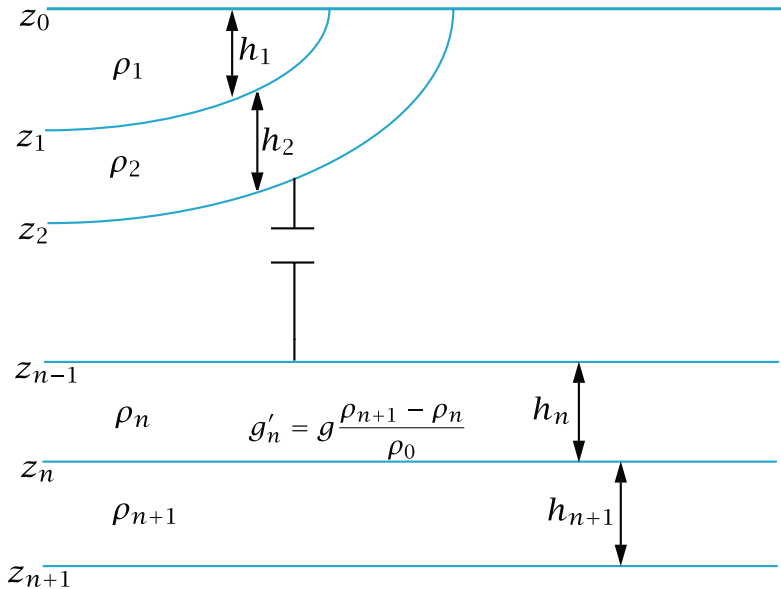


Fig. 20.23

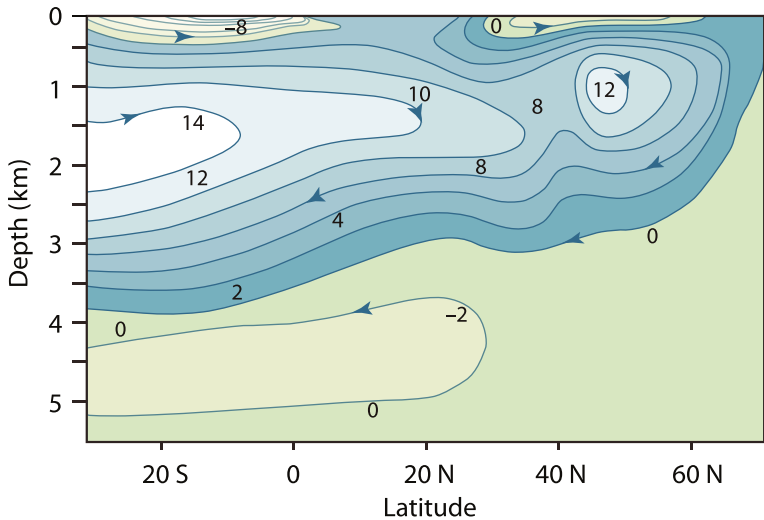


Fig. 21.1

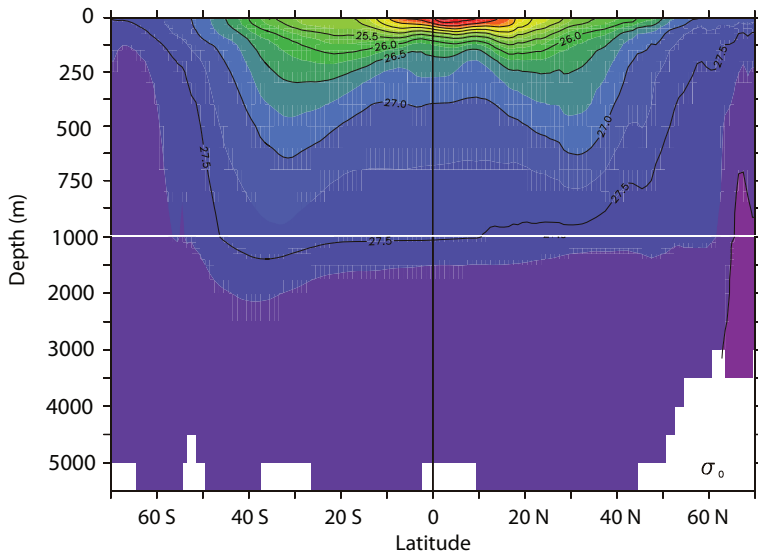


Fig. 21.2

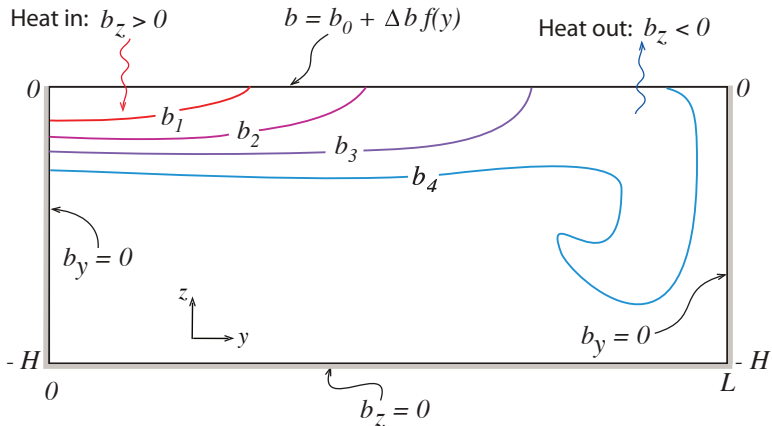
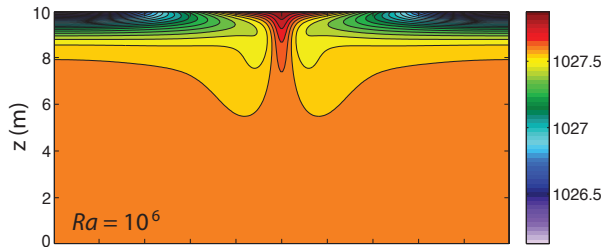


Fig. 21.3

Density



Streamfunction

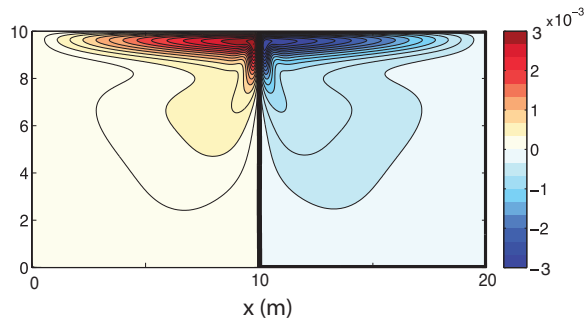
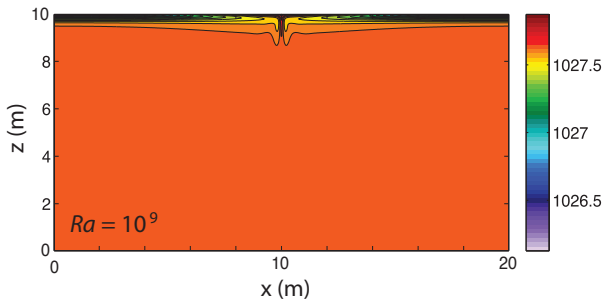
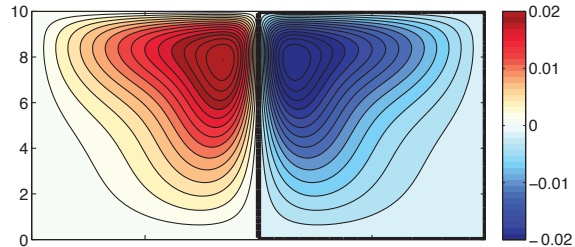


Fig. 21.4

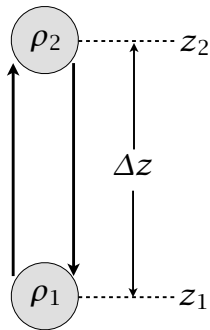


Fig. 21.5

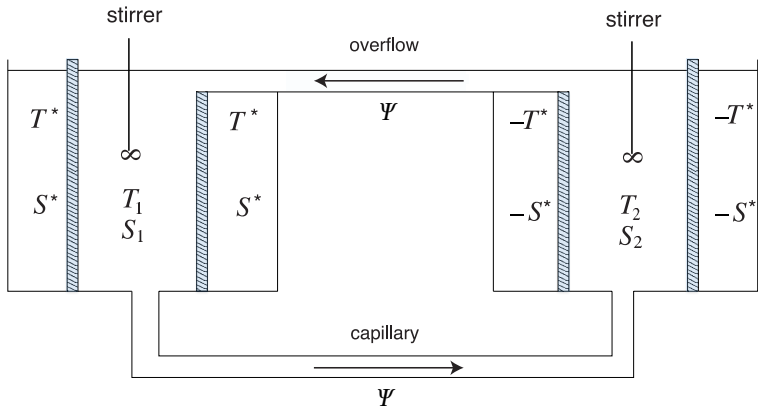


Fig. 21.6

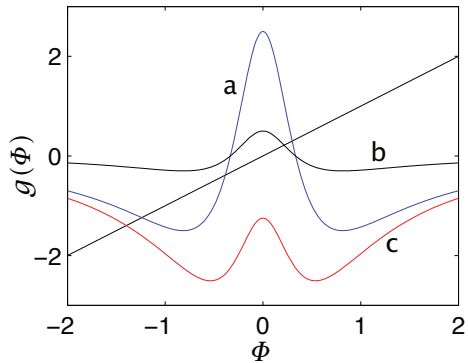
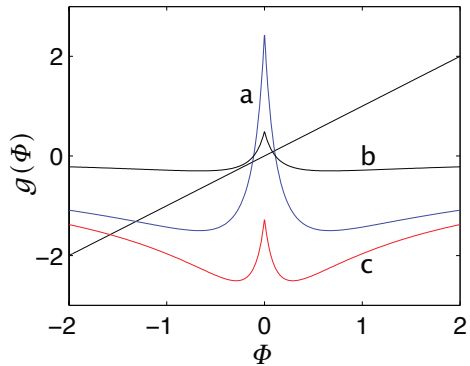


Fig. 21.7

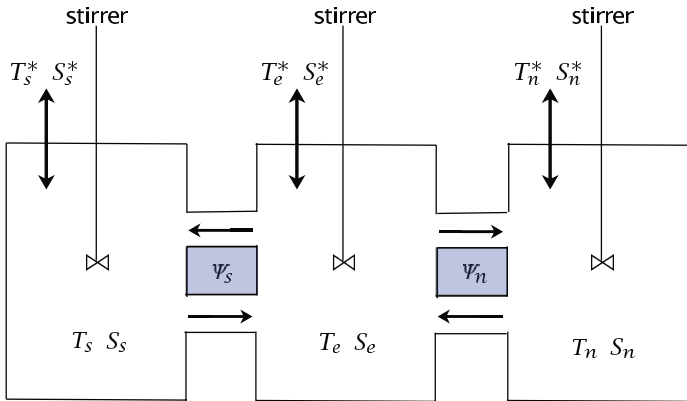


Fig. 21.8

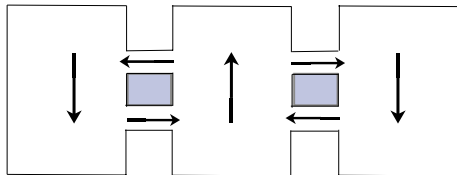
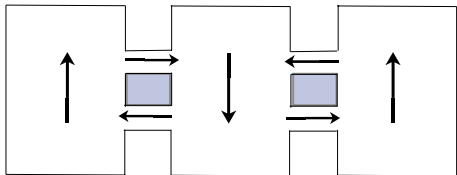
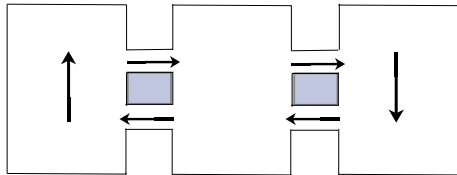
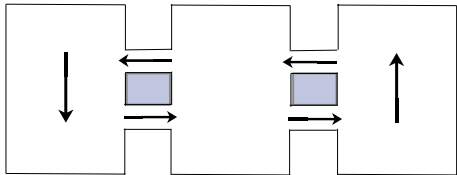


Fig. 21.9

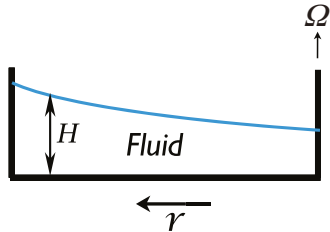
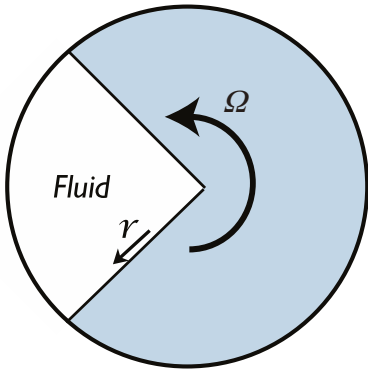


Fig. 21.10

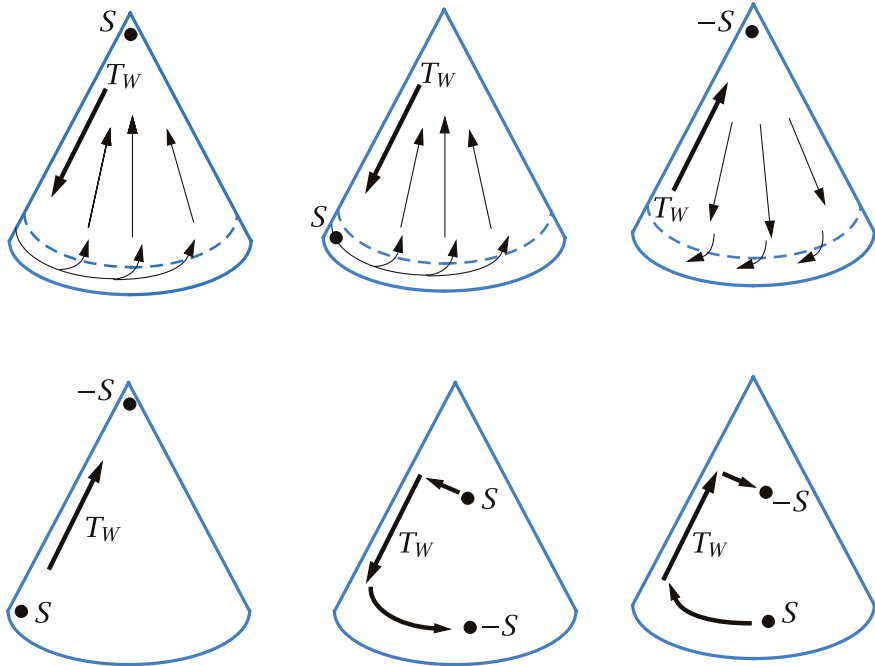


Fig. 21.11

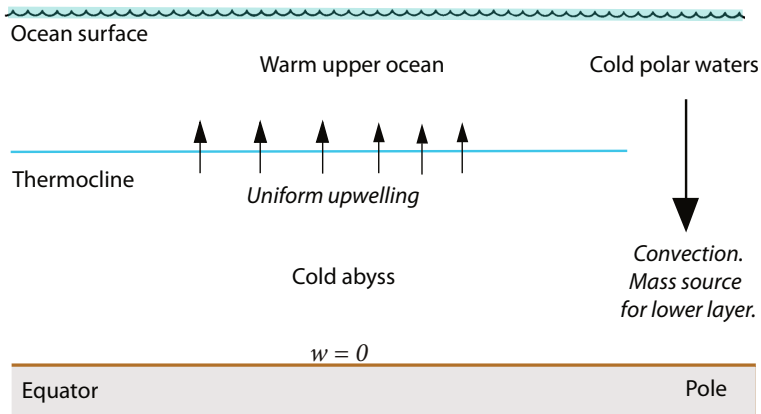


Fig. 21.12

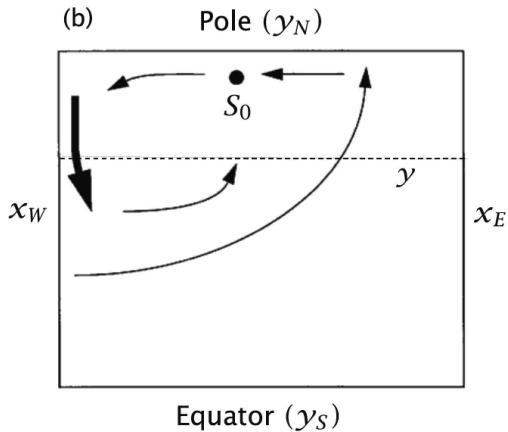
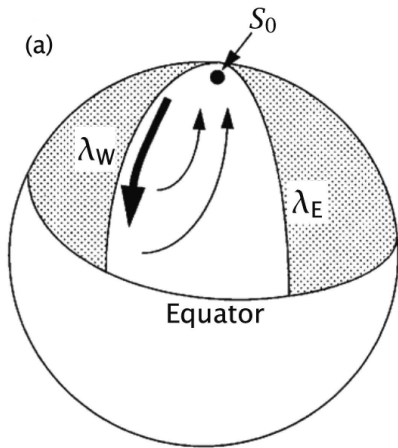


Fig. 21.13

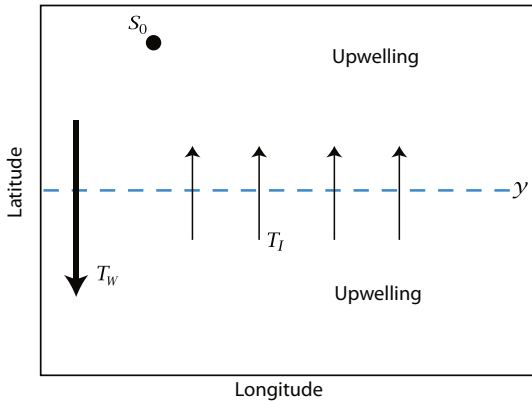


Fig. 21.14

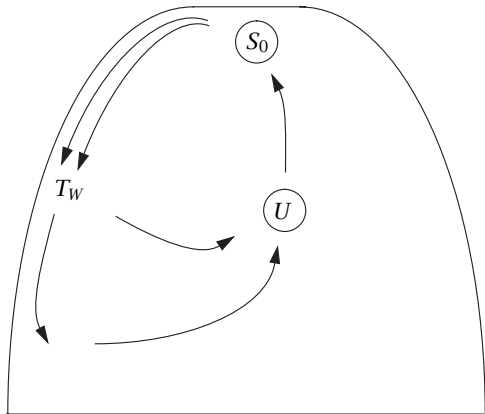


Fig. 21.15

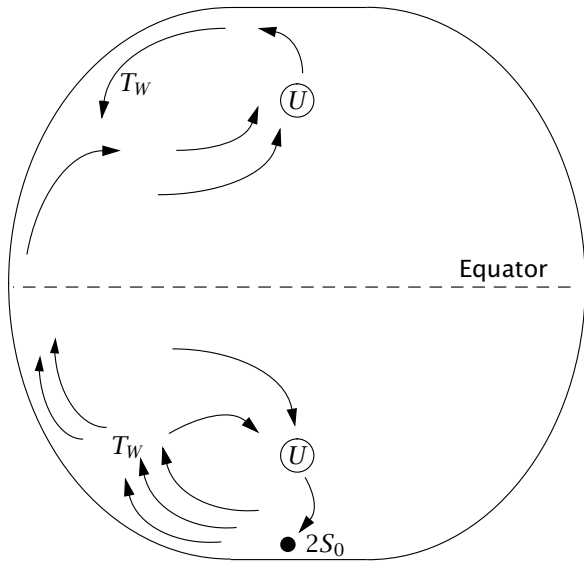


Fig. 21.16

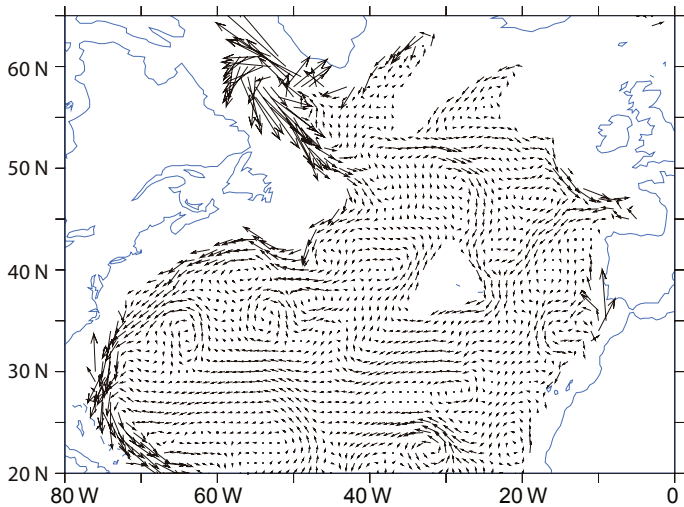


Fig. 21.17

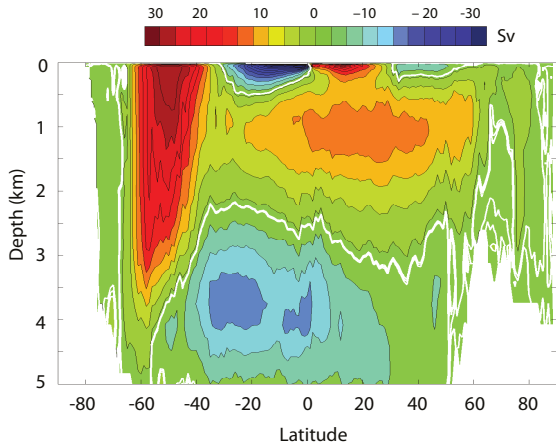
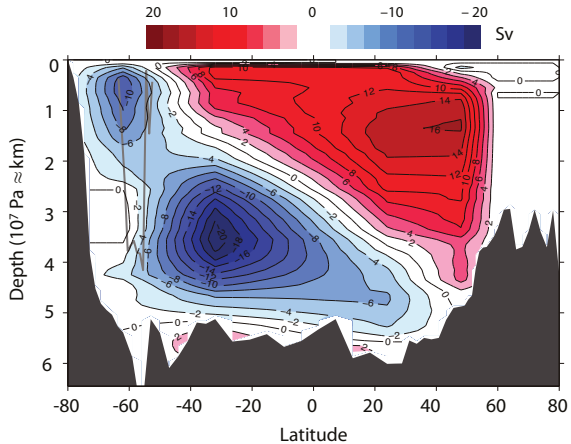


Fig. 21.18

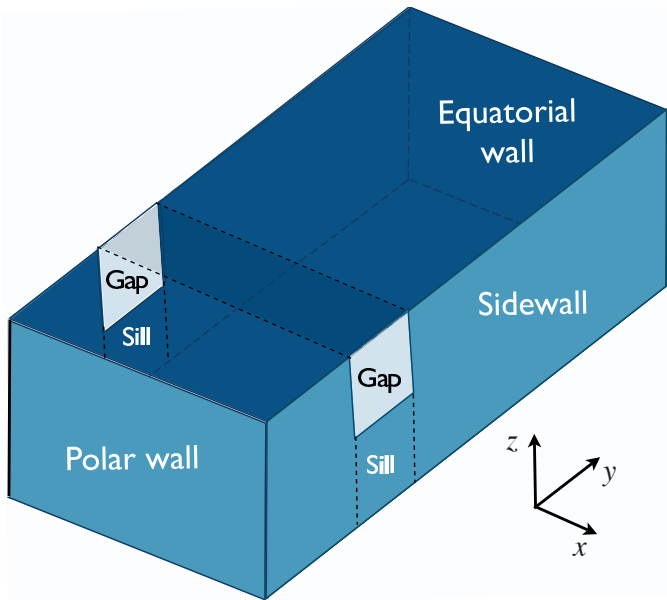


Fig. 21.19

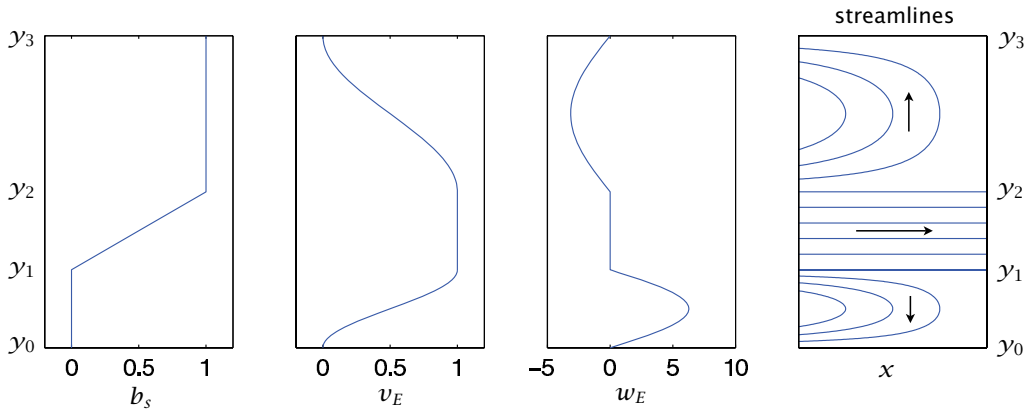


Fig. 21.20

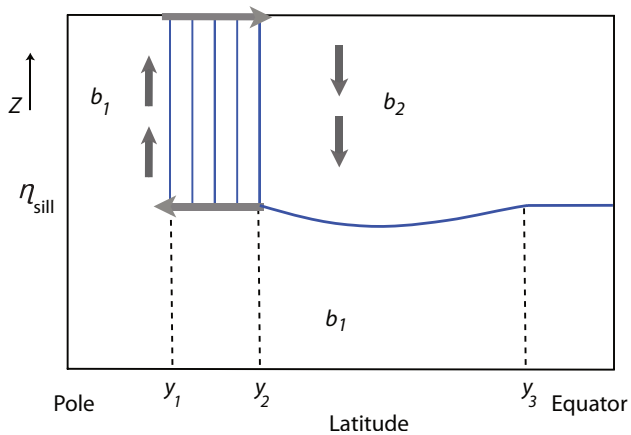


Fig. 21.21

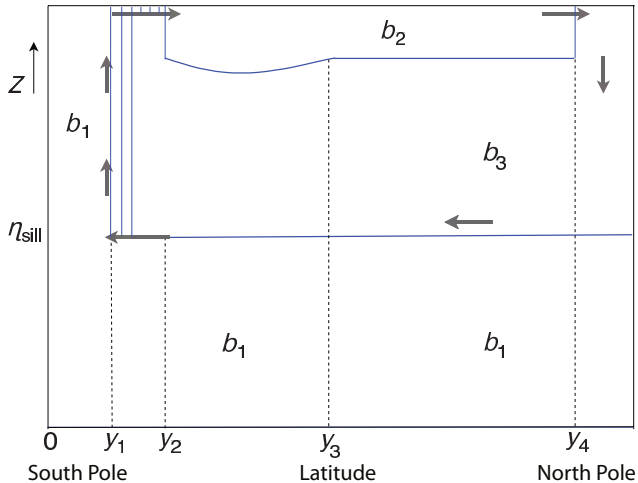


Fig. 21.22

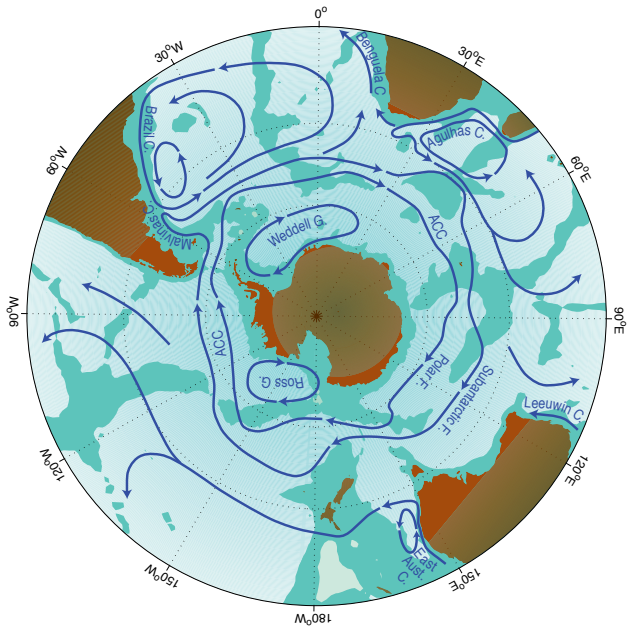


Fig. 21.23

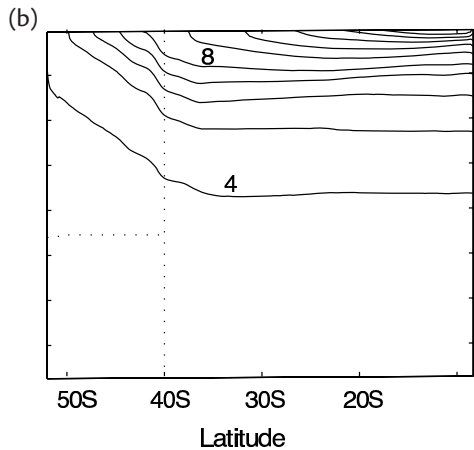
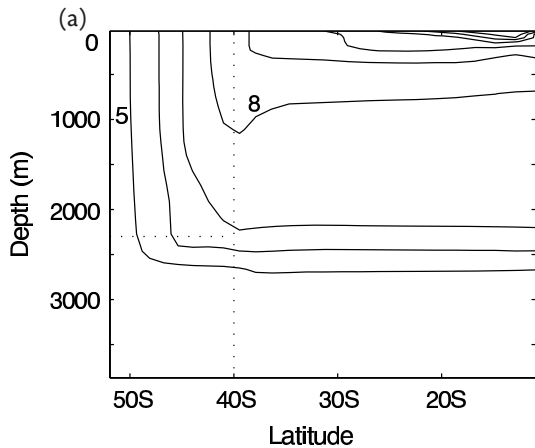


Fig. 21.24

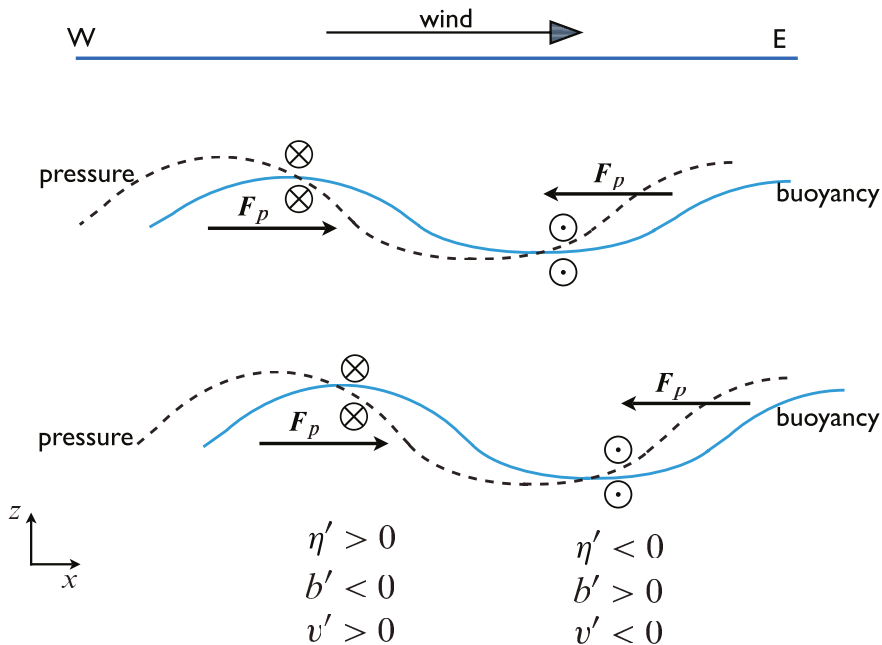
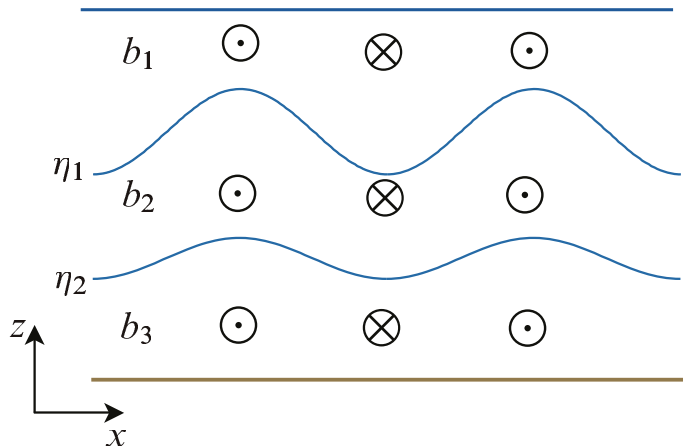


Fig. 21.25

Snapshot of eddying flow



Residual, or
thickness-weighted
averaged flow

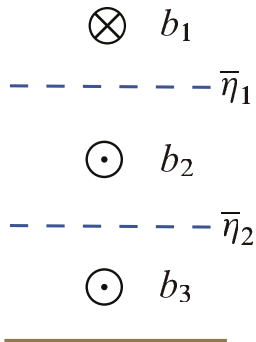


Fig. 21.26

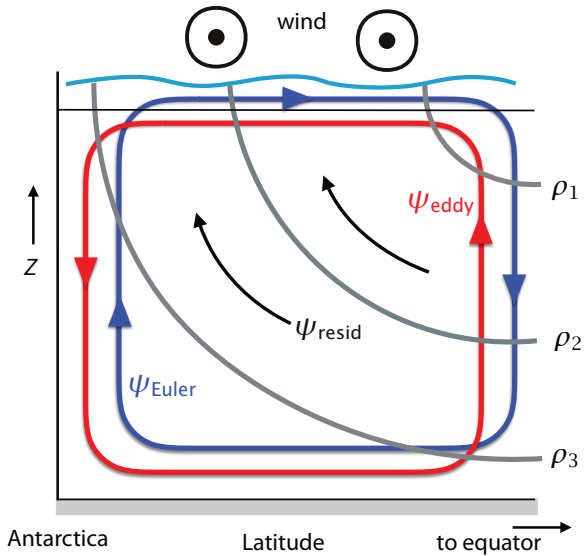


Fig. 21.27

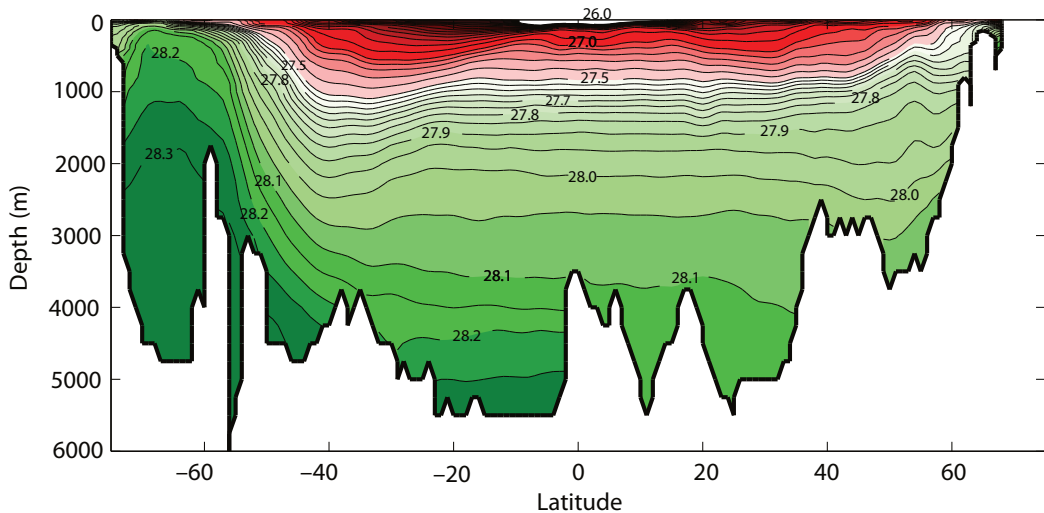


Fig. 21.28

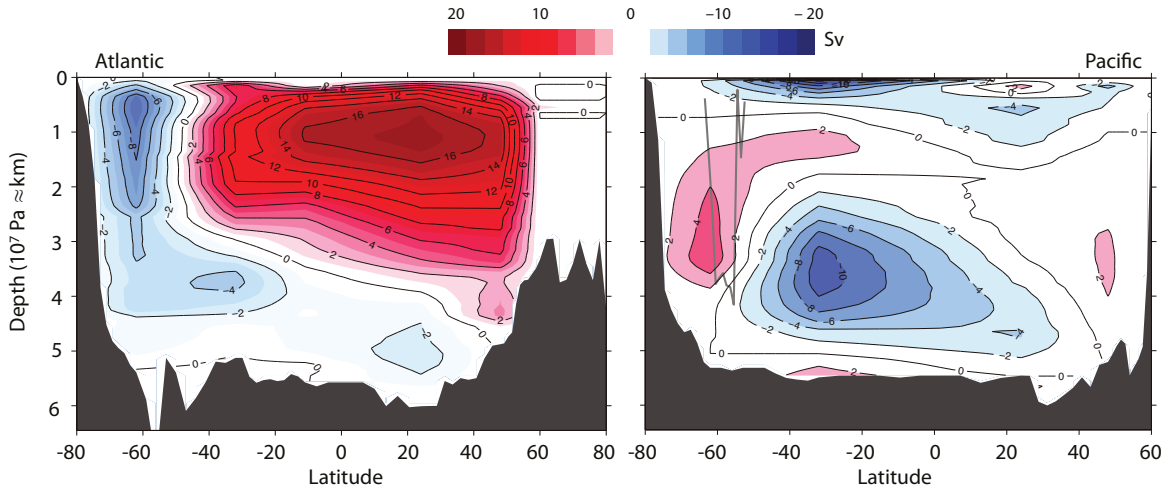


Fig. 21.29

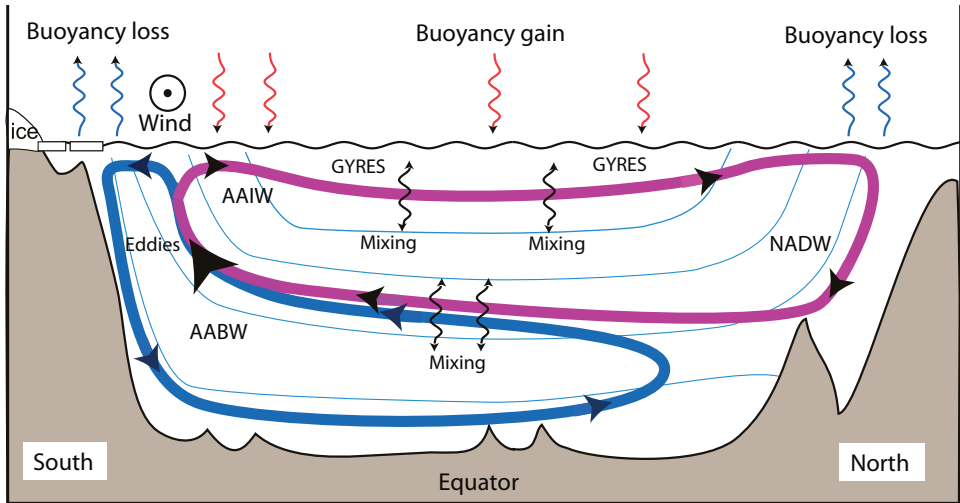


Fig. 21.30

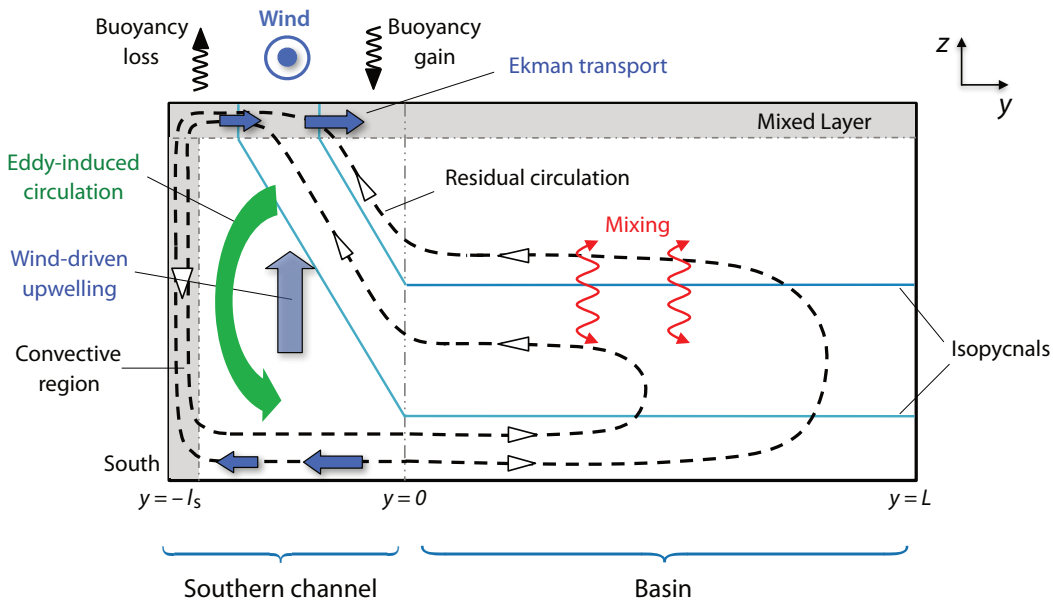


Fig. 21.31

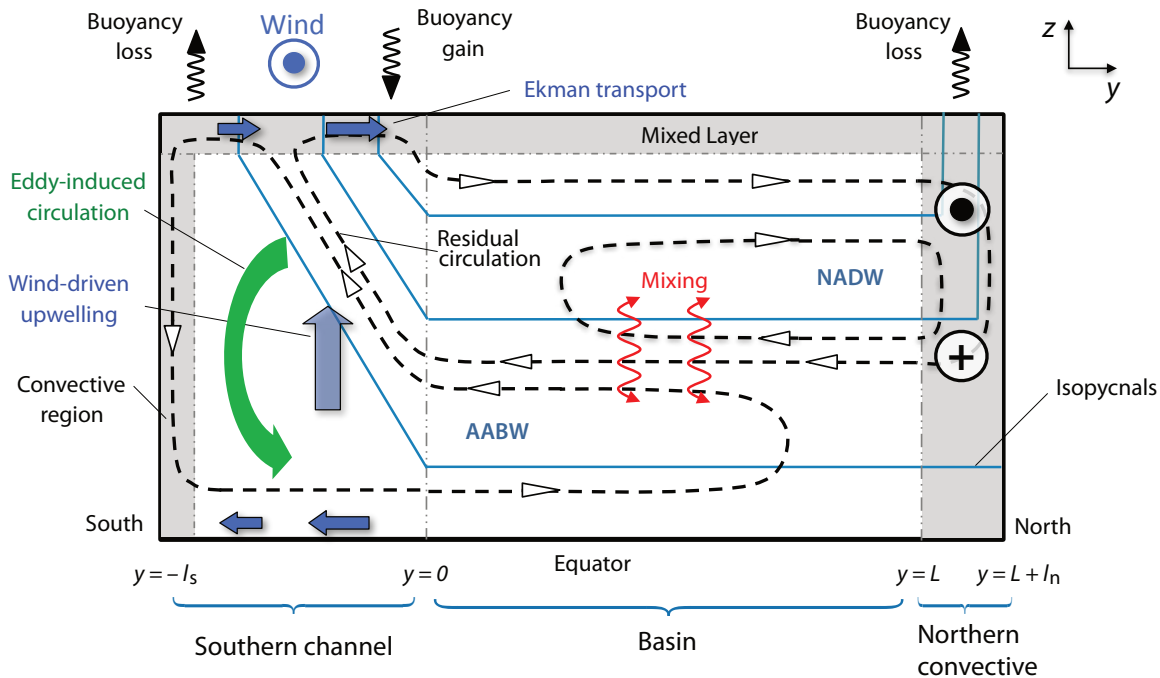


Fig. 21.32

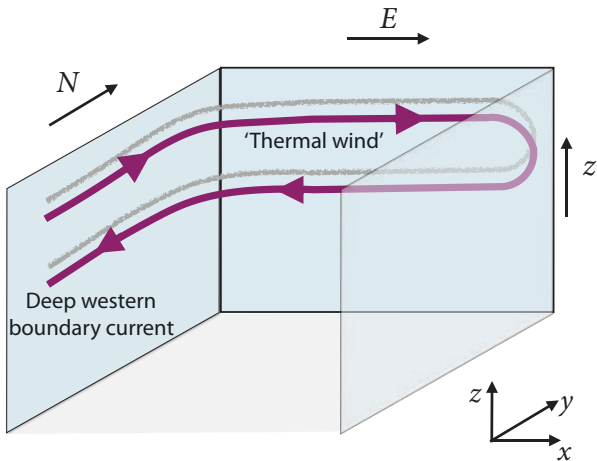


Fig. 21.33

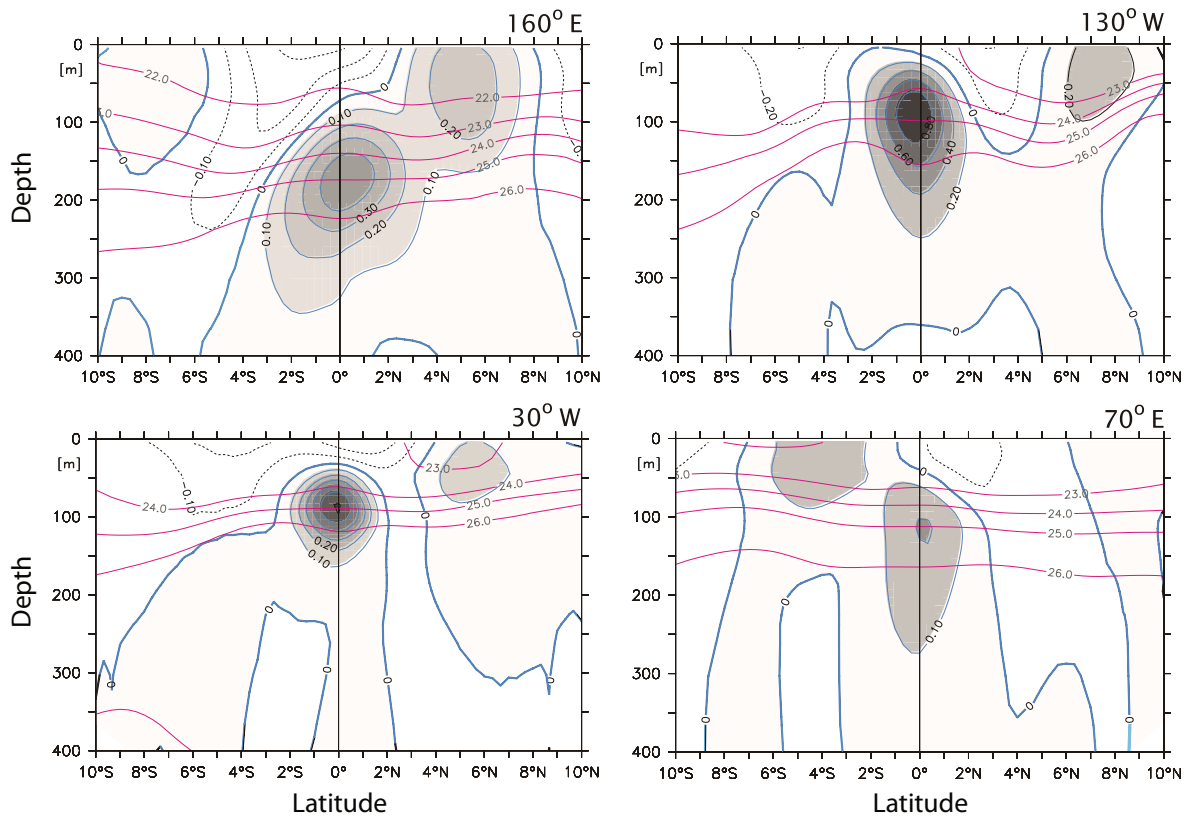


Fig. 22.1

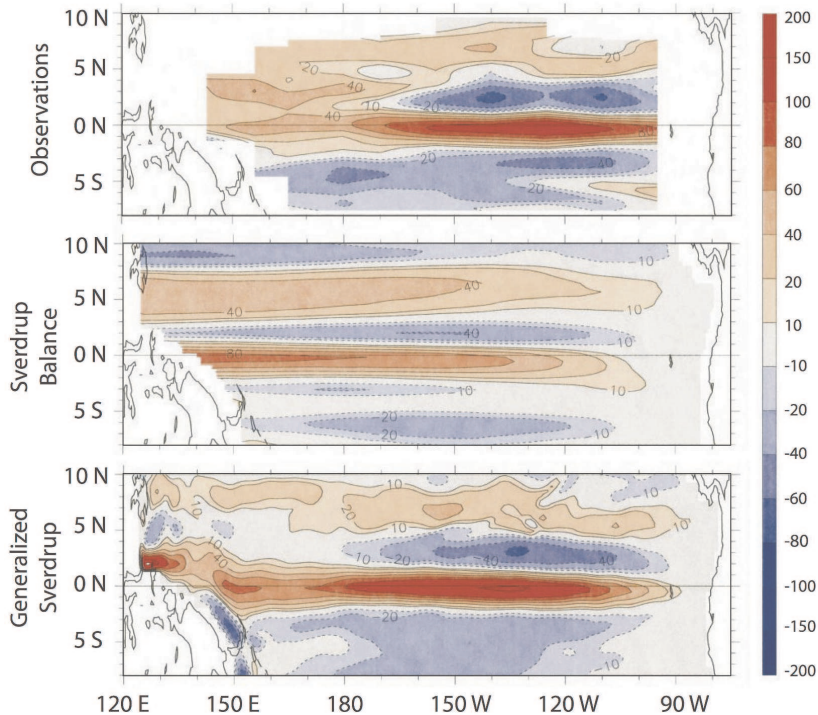


Fig. 22.2

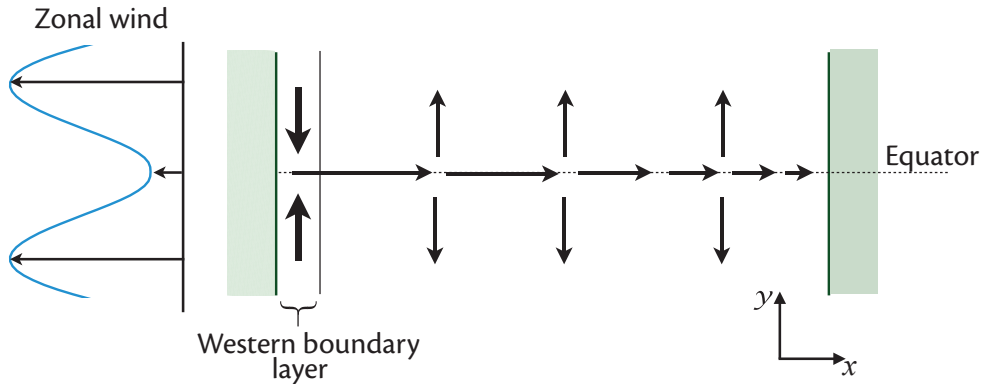


Fig. 22.3

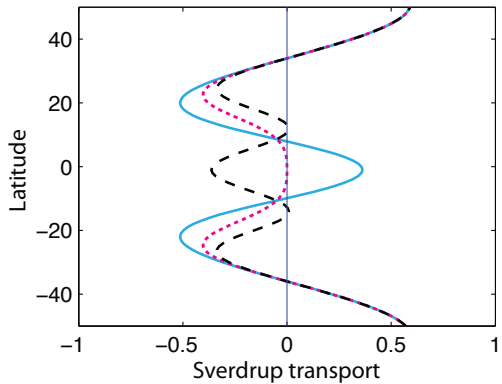
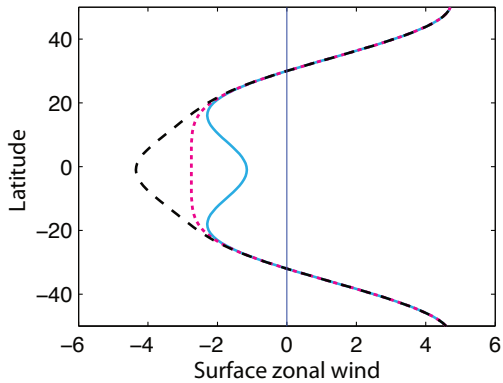


Fig. 22.4

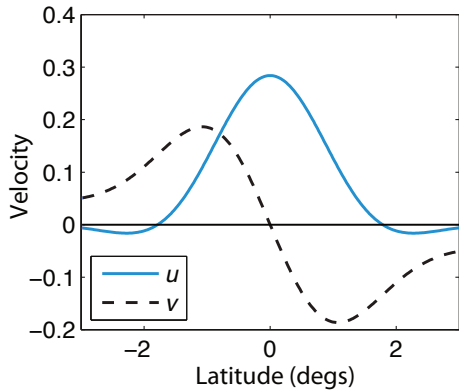
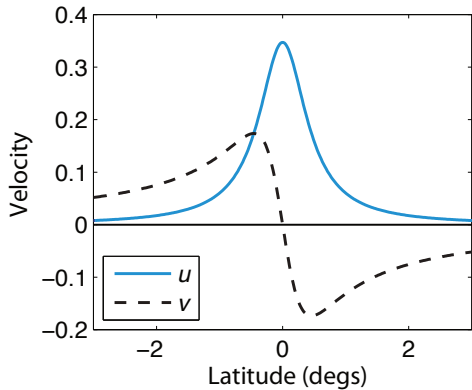


Fig. 22.5

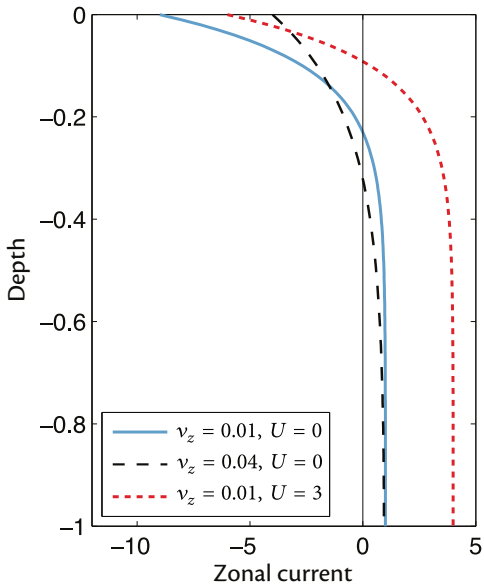


Fig. 22.6

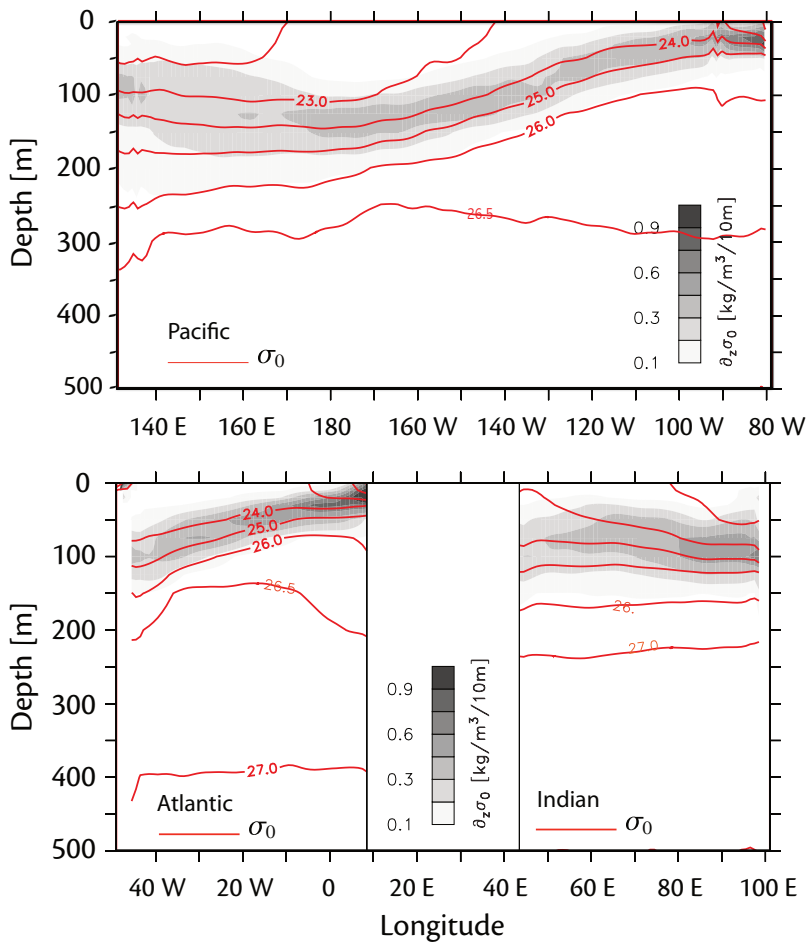


Fig. 22.7

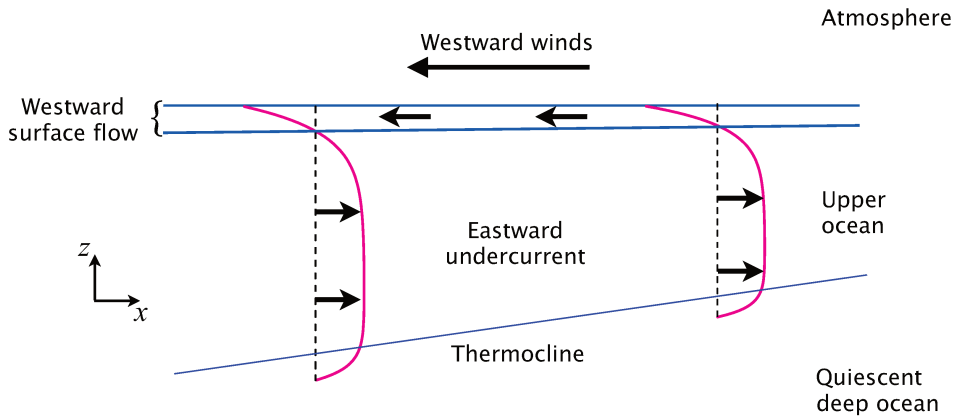


Fig. 22.8

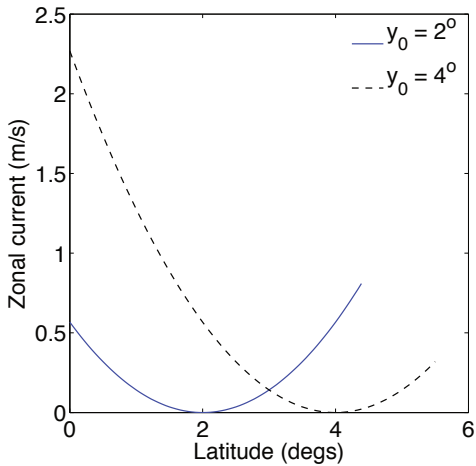


Fig. 22.9

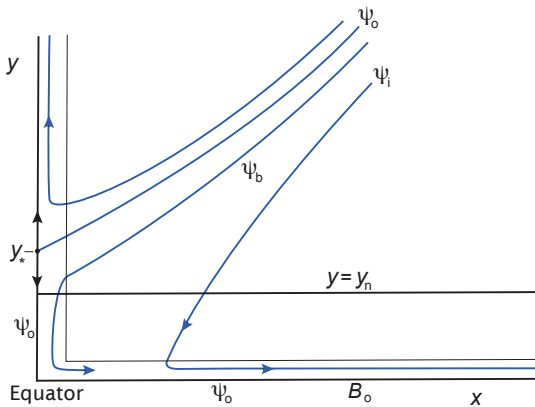


Fig. 22.10

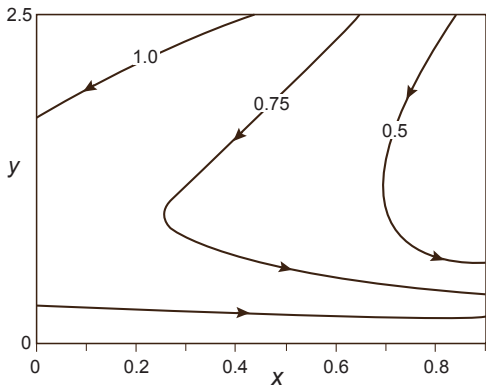


Fig. 22.11

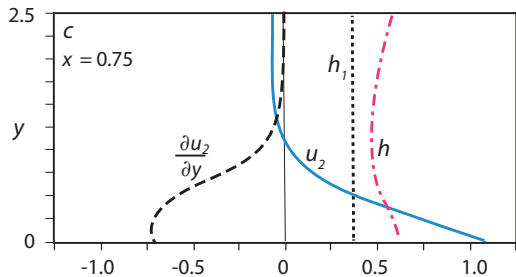
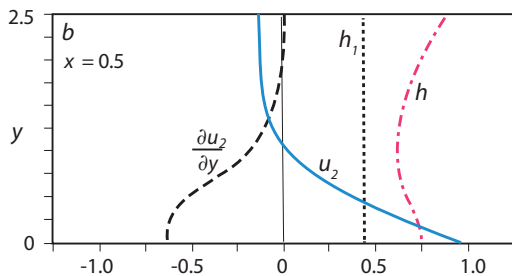
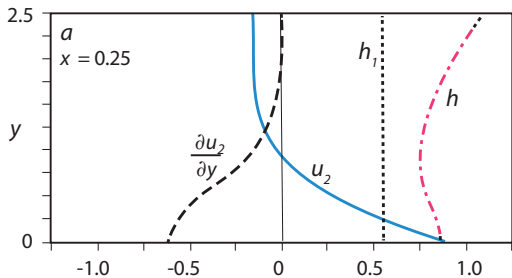
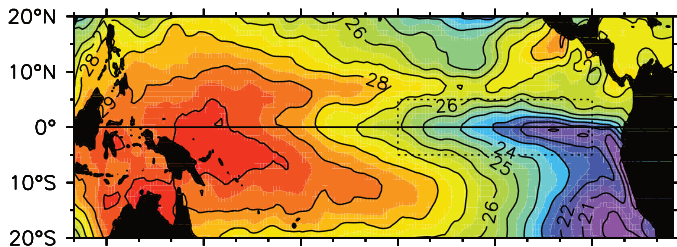
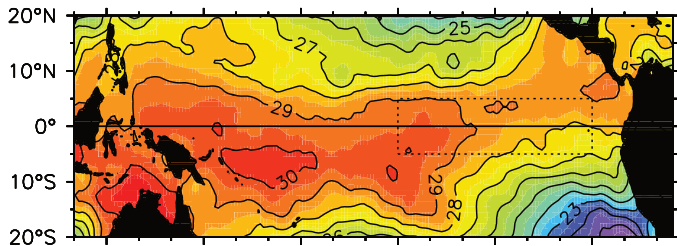


Fig. 22.12

(a) SST, 'Normal' (December 1996)



(b) SST, El Niño (December 1997)



(b) - (a) SST, El Niño anomaly

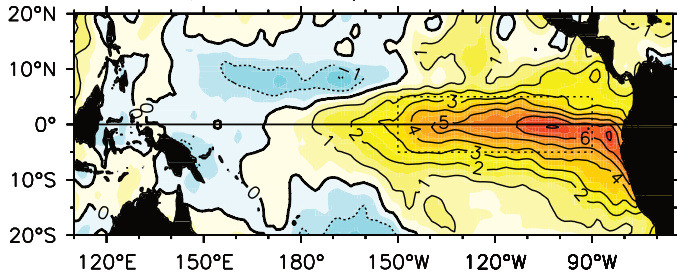


Fig. 22.13

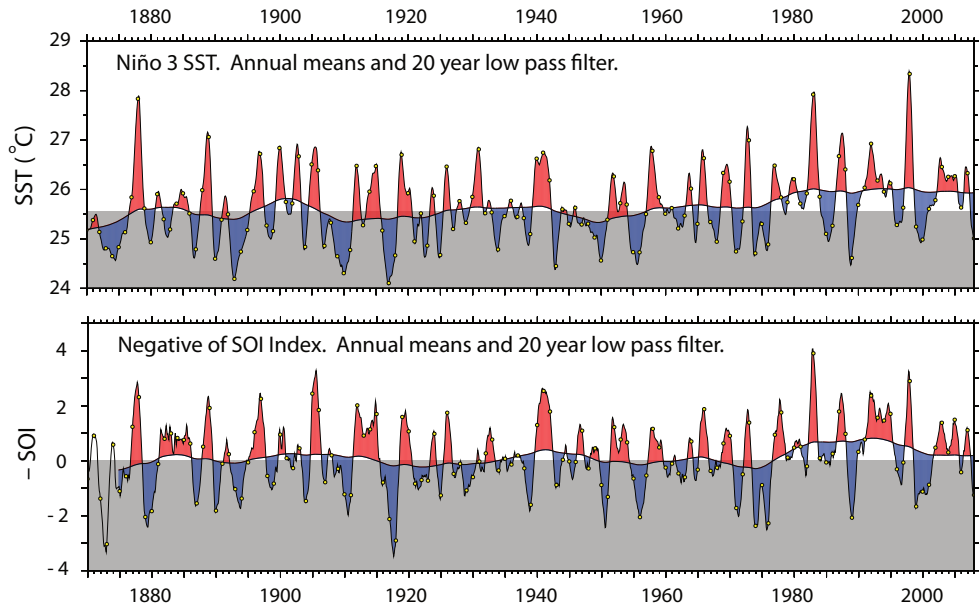


Fig. 22.14

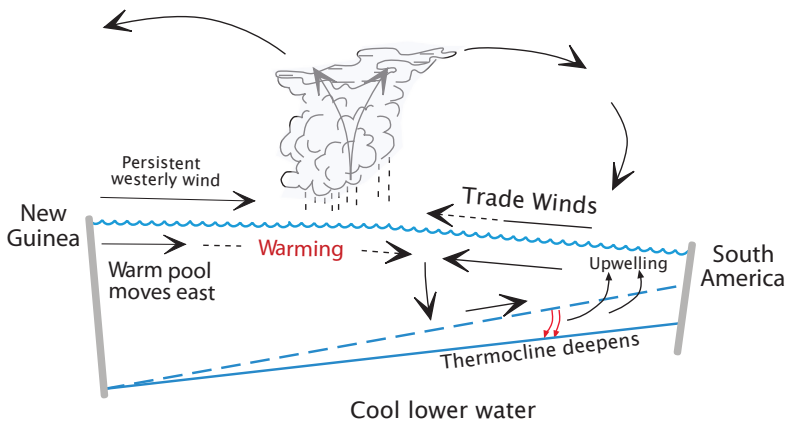
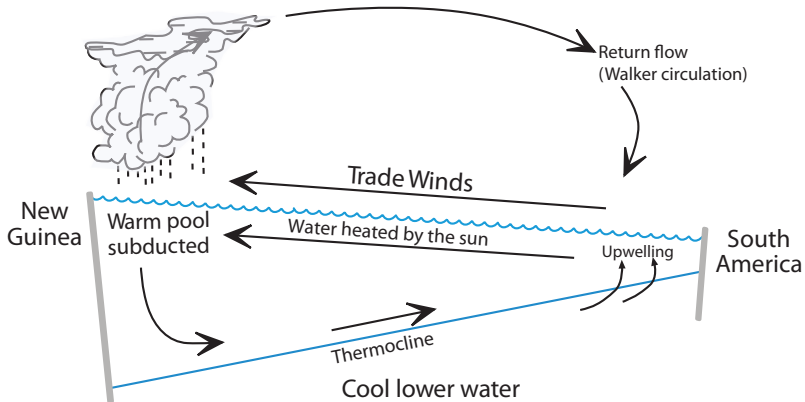


Fig. 22.16

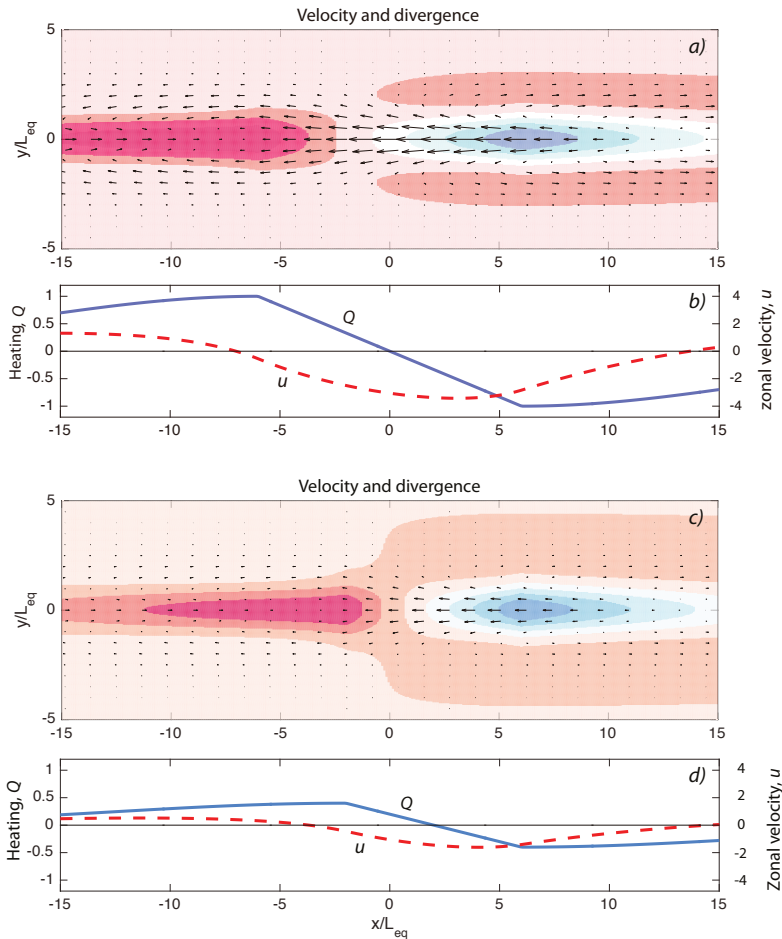


Fig. 22.17

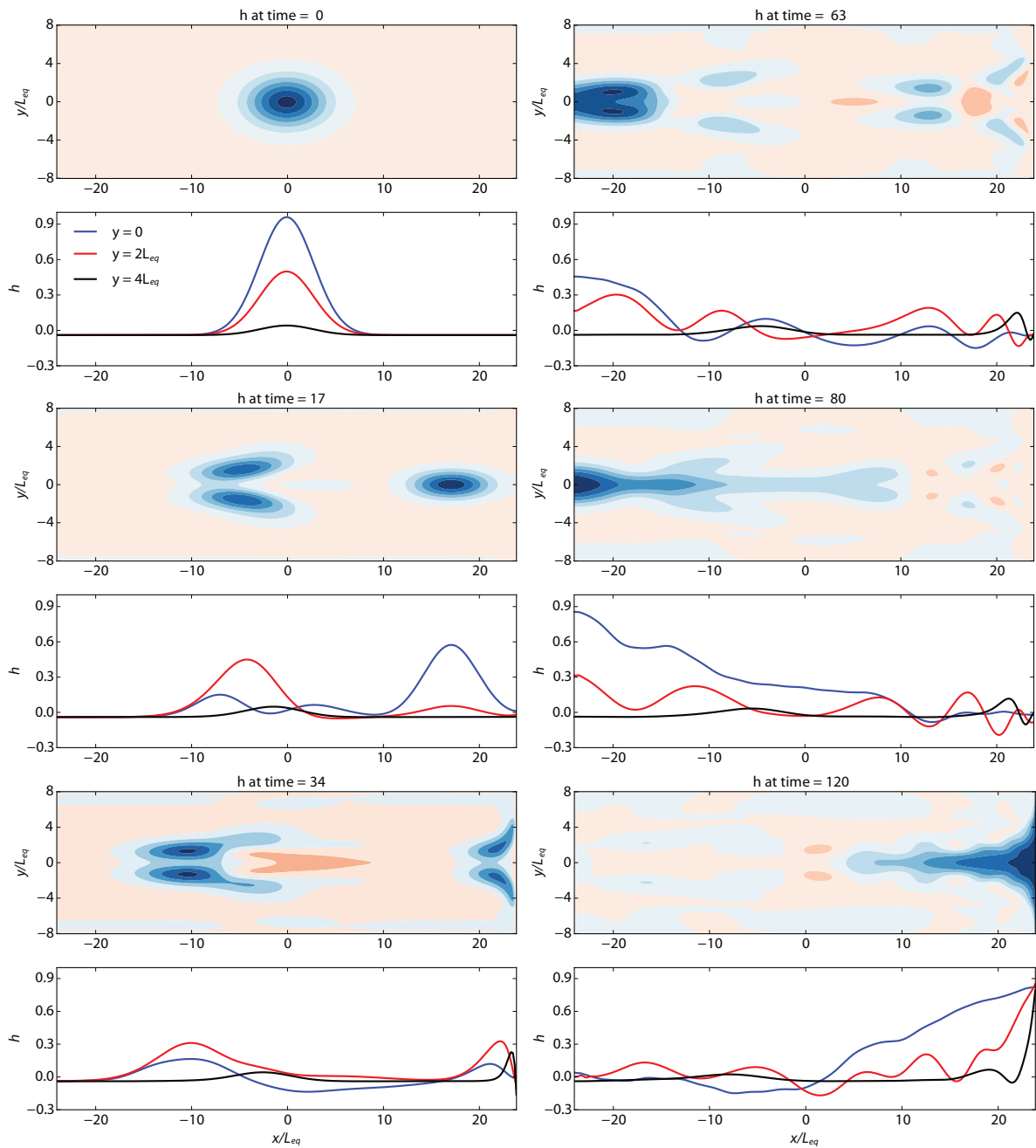


Fig. 22.18

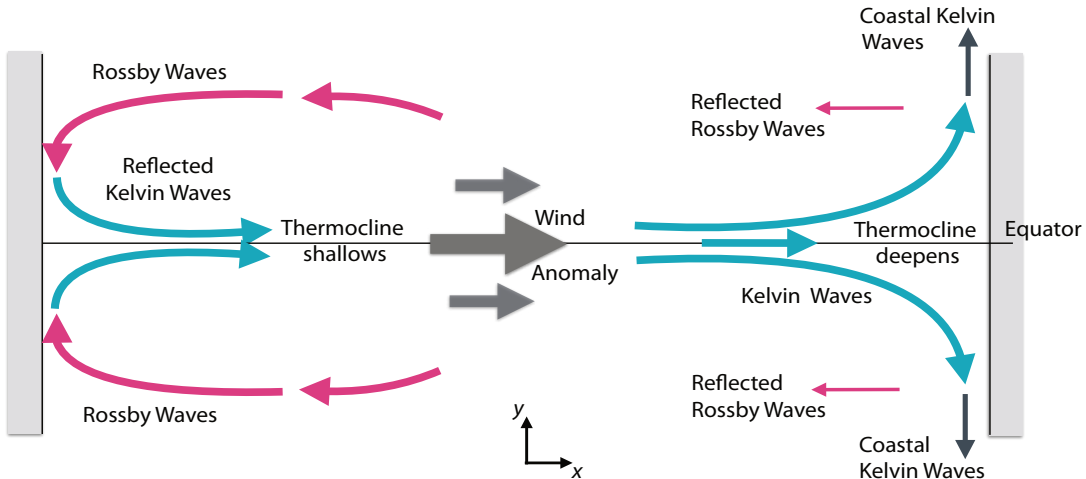


Fig. 22.19

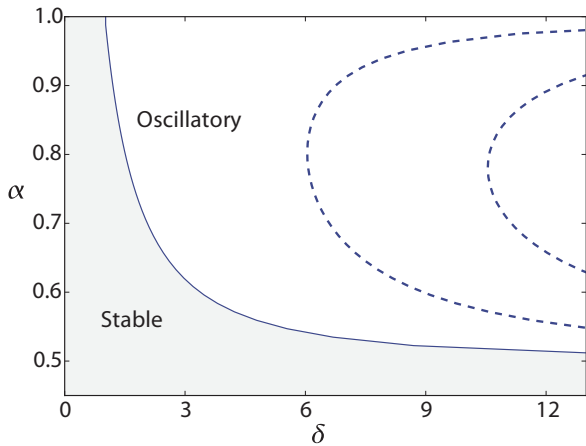


Fig. 22.20

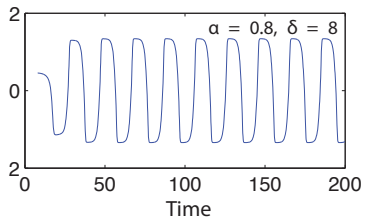
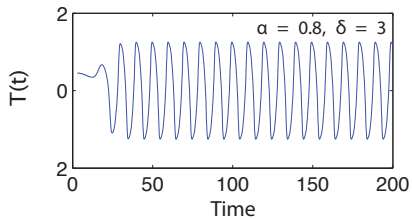
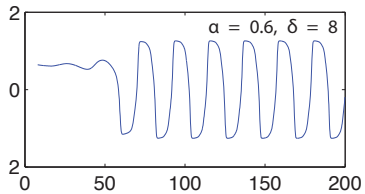
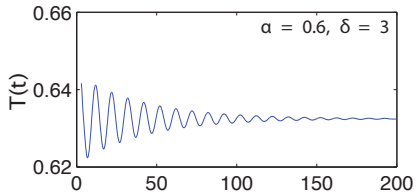


Fig. 22.21

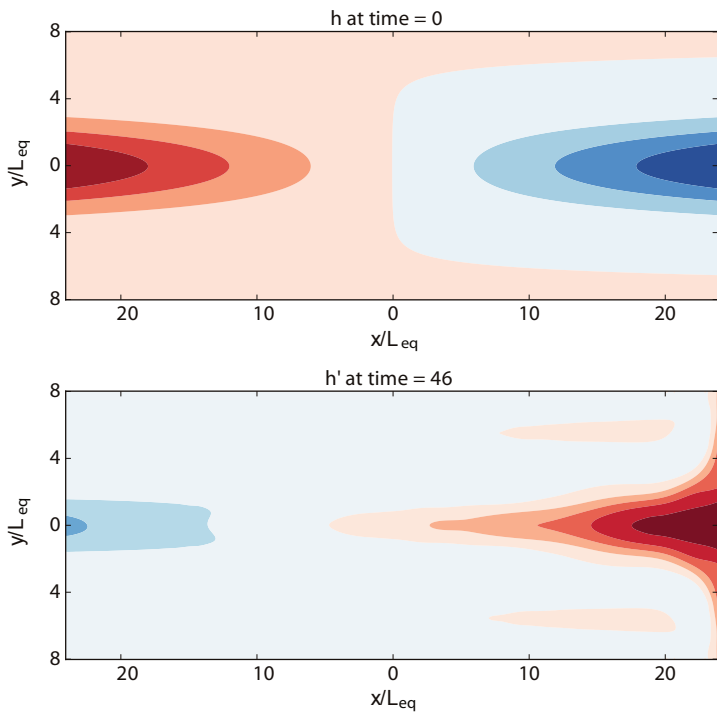


Fig. 22.22

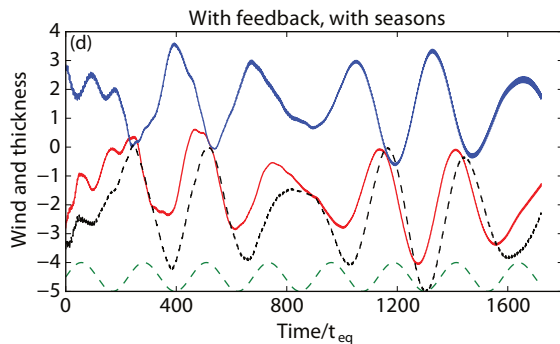
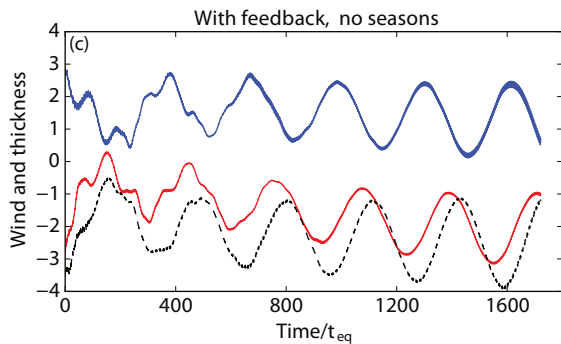
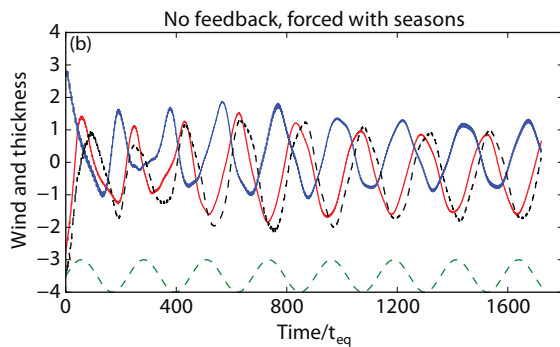
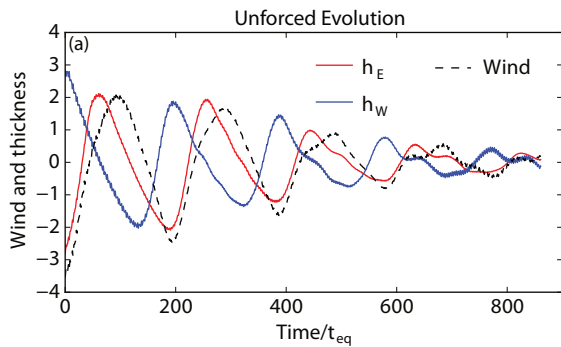


Fig. 22.23