



Ocean Circulation and Climate: Chapter 19. Interocean and Interbasin Exchanges (International Geophysics)

Janet Sprintall, Gerold Siedler, Herlé Mercier

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Interocean and interbasin exchanges occur at choke points of relatively limited extent and so provide natural geographic constraints for observing the variability of the global circulation. However, the complex bathymetry of interconnected straits and sills at these choke points and the many unique dynamical processes associated with interocean and interbasin exchanges provide challenges for observations and models alike. While overall the exchanges tend to reduce property gradients between and within ocean basins and marginal seas, they may also introduce contrasting thermohaline fluxes that can potentially influence the strength and stability of the meridional overturning circulation. In this chapter, the present knowledge of interocean exchange through the high-latitude Drake Passage and Agulhas system in the Southern Ocean and the low-latitude Indonesian seas is discussed. Examples of interbasin exchange from marginal seas illustrate their importance as source regions for the forcing of the circulation, or as regions where water masses are formed that modify and mark the variability in the global climate system. Finally, deep passage overflows that permit the exchange of deep and bottom waters between neighboring ocean basins, their characteristics and dynamics are reviewed.



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