

Figure 10.10. A schematic diagram illustrating two mechanisms of bubble-induced gas exchange. Air injection (total trapping) indicated by the empirical constant V_{inj} is indicated by smaller bubbles that collapse totally as they are subducted into the water by a wave. Exchange (partial trapping) indicated by the empirical constant V_{ex} is for larger bubbles that are submerged by waves and exchange their contents partly with the surrounding water before they resurface at the interface.

