Biogeochemical cycle of Si in the world ocean at steady state, modified after Treguer et al. (1995). Fluxes are in teramoles of Si per year. Abbreviations are as follows: gross river input, $F_{R(gross)}$; net river inputs, $F_{R(net)}$; eolian inputs, $F_A$; seafloor weathering inputs, $F_W$; hydrothermal inputs, $F_H$; net deposit of biogenic silica in estuaries, $F_{est}$; net deposit of biogenic silica in coastal and abyssal sediments, $F_B$; biogenic silica gross production, $F_{P(gross)}$; flux of silicic acid recycled in the surface reservoir, $F_{D(surface)}$; flux of biogenic silica exported toward the deep reservoir, $F_E$; flux of silicic acid recycled in the deep reservoir, $F_{D(deep)}$; and at the sediment-water interface, $F_{D(benthic)}$; flux of biogenic silica that reaches the sediment-water interface, $F_{S(rain)}$; and flux of silicic acid transferred from the deep reservoir to the surface mixed layer, $F_{upwelled}$. 