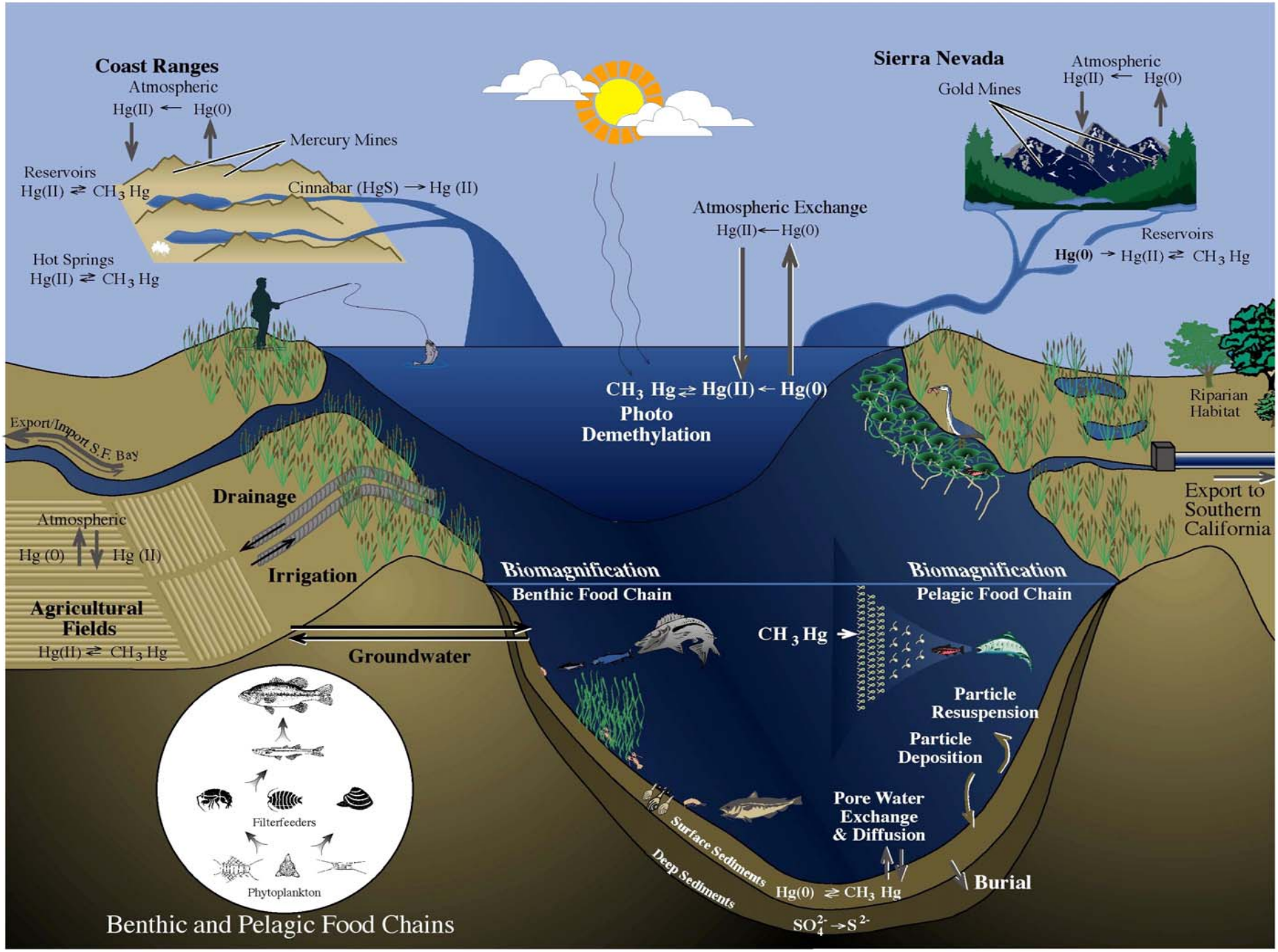
Coast Ranges
Atmospheric
Hg(II) ← Hg(0)
Mercury Mines
Reservoirs
Hg(II) ⇄ CH3 Hg
Cinnabar (HgS) → Hg (II)
Hot Springs
Hg(II) ⇄ CH3 Hg
Sierra Nevada
Gold Mines
Atmospheric
Hg(II) ← Hg(0)
Reservoirs
Hg(0) → Hg(II) ⇄ CH3 Hg
Atmospheric Exchange
Hg(II)←Hg(0)
CH3 Hg ⇄ Hg(II) ← Hg(0)
Photo
Demethylation
Riparian
Habitat
Export/Import S.F. Bay
Drainage
Irrigation
Atmospheric
Hg (0) ⇅ Hg (II)
Agricultural
Fields
Hg(II) ⇄ CH3 Hg
Groundwater
Export to
Southern
California
Biomagnification
Benthic Food Chain
Biomagnification
Pelagic Food Chain
CH 3 Hg
Particle
Resuspension
Particle
Deposition
Pore Water
Exchange
& Diffusion
Surface Sediments
Deep Sediments
Hg(0) ⇄ CH3 Hg
SO4 2- → S 2-
Burial
Filterfeeders
Phytoplankton
Benthic and Pelagic Food Chains