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Point of view from a numerical model about the material transport and cycling of enclosed seas

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There are many sources of nutrients, for example river, open ocean, decomposition and so on. But fluxes or ratio of each source has not been understood enough yet. We have to realize a nutrient supply mechanism quantitatively to solve an eutrophication of enclosed sea and to preserve an environment. In this study, overview of a material transport and cycling of enclosed seas, an estimation of nutrient origin (river vs. open ocean), an estimation of an effect of submarine ground water for water and material budget, and an analysis of material cycling by using a ecosystem model, will be discussed.