Preferred mode of presentation: Oral

Submarine groundwater discharge in Asia and Oceania

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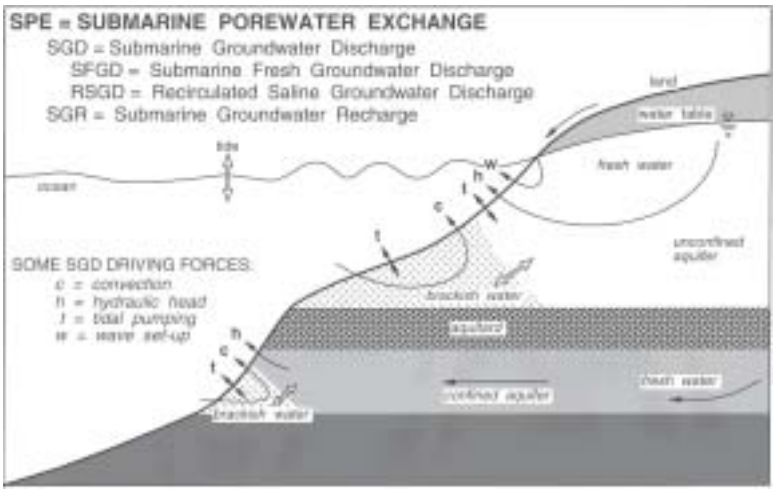
Submarine groundwater discharge (SGD) is one of the significant water and dissolved material pathways from land to the ocean (Taniguchi et al., 2002). Evaluations of SGD by seepage meters and resistivity measurements have been made in Japan, Thailand, and Australia. Diurnal and semi-diurnal variations of SGD due to tidal effects were found by uses of automated seepage meters (Taniguchi, 2002). Separations of SGD into terrestrial fresh groundwater discharge and recirculated saline water discharge were also made using continuous measurements of conductivity of SGD water and subsurface temperature (Taniguchi et al., 2003) in Asia and Oceania.



Keywords; Submarine groundwater discharge, seepage meter, resistivity measurement, tidal effect, recirculated seawater, terrestrial fresh groundwater discharge, subsurface temperature, saltwater-freshwater interface

References

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