A COMPARISON OF SOLUTE BUDGETS FOR TWO CATCHMENTS WITH CONTRASTING DEPOSITION LOADS IN ATLANTIC FOREST (SERRA DO MAR/SP - BRAZIL).


RESUMO

A solute mass balance for two small catchments with contrasting deposition loads (polluted and natural) in the Atlantic Forest (Serra do Mar/SP - Brazil) was computed from a two years monitoring of rainfall, throughfall, soil water and stream flow. The monitoring program for two forested small catchments was established in 1999 in the Atlantic Forest (São Paulo State, Brazil). One catchment named URBAN (23º 39´ S and 46º 37´ W) is inside the largest metropolis of South America (São Paulo city) within a Park of 550 ha located about 50km away from seashore. The other catchment named REFERENCE (between parallels 23º 13´ 18´´ and 23º 16´ 10´´ S and meridians 45º 02´ 53´´ and 45º 02´ 53´´ West) located in the Serra do Mar State Park, Cunha Sector with 2850 ha and small villages. The determined chemicals in solution were: Na⁺, K⁺, Mg²⁺, Ca²⁺, NH₄⁺, Cl⁻, NO₃⁻, SO₄²⁻, Al, Fe and Mn. The period was from April 2000 until September 2001.