

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

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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 ( $23^{\circ} 39' S$  and  $46^{\circ} 37' W$ ) 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  $23^{\circ} 13' 18''$  and  $23^{\circ} 16' 10'' S$  and meridians  $45^{\circ} 02' 53''$  and  $45^{\circ} 02' 53''$  West) located in the Serra do Mar State Park, Cunha Sector with 2850 ha and small villages. The determined chemicals in solution were:  $Na^{+}$ ,  $K^{+}$ ,  $Mg^{2+}$ ,  $Ca^{2+}$ ,  $NH_4^{+}$ ,  $Cl^{-}$ ,  $NO_3^{-}$ ,  $SO_4^{2-}$ , Al, Fe and Mn. The period was from April 2000 until September 2001.