

The blight of the beech in the South Pole by air pollution

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The air pollution withered the beeches in Fuego island (south latitude 55 degrees). In the same way as flon gas, the air contaminated in the northern hemisphere reached Fuego island. The hydron and sulfuric ion in air contaminated were varnished on the surface of the soil and bark of beech by whirlpool in the South Pole.

The concentration and accumulation of the hydron and sulfuric ion occur on the soil and bark of beech. The day before was rainy but the concentration of sulfuric ion and pH

in bark of beech were 4.9mg/dm³ and pH4.0 (10g bark/25g water) and those in the soil were 5.7mg/dm³ and pH5.4 (10g soil/25g water)

and those in the water dropping (10cm³/5minutes) from slope of hill were 307mg/dm³ and pH4.9.