

MIS029-02

会場:203

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富士山頂で観測された高濃度ガス状水銀と粒子状水銀の起源解析

High levels of gaseous elemental mercury and particulate mercury observed at the summit of Mt. Fuji during summer observ

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The chemical cycling and spatiotemporal distribution of mercury in the troposphere is poorly understood. We measured gaseous elemental mercury (GEM) and particulate mercury(p-Hg) along with SO₂, ozone, aerosols and meteorological variables at the summit of Mt. Fuji (3776m a.s.l.) from 23 August to 30 August. The mean mercury concentrations were 23ng/m³ (GEM) and 4.7ng/m³ (p-Hg). We observed this event of strongly enhanced atmospheric GEM levels with maximum concentration up to 25 ng/m³. High GEM and p-Hg levels were related to pollution events, particularly SO₂ transported from Asian Continent. As result of back trajectory analysis will show this phenomena