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MIS029-02

Room:203

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## 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 SO<sub>2</sub>, 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/m<sup>3</sup> (GEM) and 4.7ng/m<sup>3</sup> (p-Hg). We observed this event of strongly enhanced atmospheric GEM levels with maximum concentration up to 25 ng/m<sup>3</sup>. High GEM and p-Hg levels were related to pollution events, particularly SO<sub>2</sub> transported from Asian Continent. As result of back trajectory analysis will show this phenomena