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## Spatial distribution of atmospheric SF<sub>6</sub> mixing ratios in Japan: Implications for ground-water dating

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Sulfur hexafluoride (SF<sub>6</sub>) is a promising transient tracer for young groundwater dating, but elevated levels of atmospheric SF<sub>6</sub> may limit application of this dating method in urban areas. To determine the magnitude of this limitation within Japan, we measured the atmospheric SF<sub>6</sub> mixing ratios around Nagoya and Tokyo.

Keywords: Sulfur hexafluoride, atmospheric mixing ratio, urban area, Japan, groundwater age