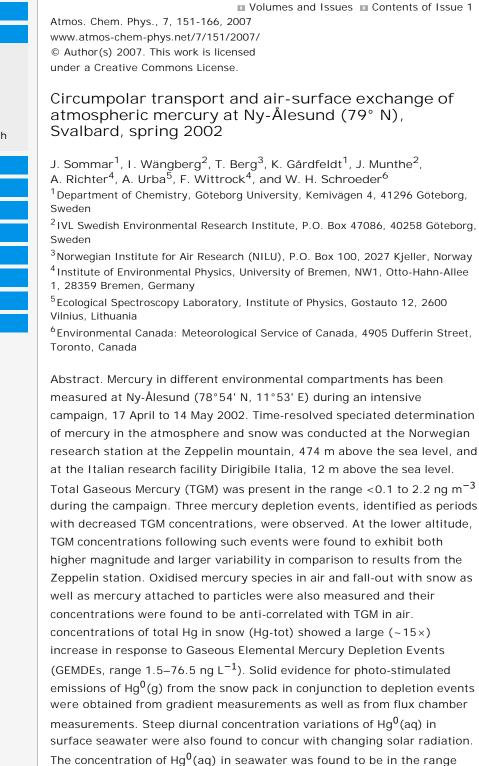
# Atmospheric Chemistry and Physics

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12.2–70.4 pg L<sup>-1</sup>, which corresponds to supersaturation. Hence, the seawater surface constituted a source emitting elemental mercury. The concentrations of RGM (reactive gaseous mercury), Hg-p (particulate mercury), and BrO column densities (detected by DOAS) were very low except for a few individual samples during the major Hg<sup>0</sup> depletion event. BrO vertical column densities obtained by the remote satellite ESR-2 and

trajectory analysis indicate that the air masses exhibiting low Hg<sup>0</sup>

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concentrations originated from areas with high BrO densities.

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Citation: Sommar, J., Wängberg, I., Berg, T., Gårdfeldt, K., Munthe, J., Richter, A., Urba, A., Wittrock, F., and Schroeder, W. H.: Circumpolar transport and air-surface exchange of atmospheric mercury at Ny-Ålesund (79° N), Svalbard, spring 2002, Atmos. Chem. Phys., 7, 151-166, 2007. <u>Bibtex</u> <u>EndNote</u> <u>Reference Manager</u>