

MEASUREMENTS ON AEROSOLS COLLECTED AT ALASKA
IN WINTER OF 1991/1992 (ABSTRACT)

Yasu-nobu IWASAKA¹, Katsuji MATSUNAGA¹, Ikuko MORI¹, Yasuhiro
MURAI¹, Masahiro NAGATANI¹, Hiroshi NAKADA¹, Satoru KANAMORI* and
Nobuko KANAMORI²

¹*Solar-Terrestrial Environment Laboratory, Nagoya University,
Furo-cho, Chikusa-ku, Nagoya 464-01*

²*Water Research Institute, Nagoya University, Furo-cho, Chikusa-ku, Nagoya 464-01*

**An Emeritus Professor of Nagoya University*

Atmospheric aerosols were collected at Poker Flat, Alaska in winter of 1991/1992. Lidar measurements simultaneously made at Poker Flat suggested that Pinatubo volcanic aerosols had diffused over Alaska by December 1991.

Chemical constituents were analyzed with ion chromatography for the water soluble fraction of aerosols. These concentrations changed in the range of $n \times 100$ pmol/m³ to $n \times 10$ nmol/m³ with two orders of magnitude.

Chemical analysis of aerosols showed the possibility that volcanic matter was transported to near the ground surface through stratosphere-troposphere exchange processes.

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