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COVER

Tephra-laden plume (3.5 kilometers in height) being vented from Mount St. Helens' lava dome on 9 June 1982, as seen from a ridge 7 kilometers to the north. A series of spectacular gas/ash emissions in May and June 1982 was probably driven by snowmelt percolating into the shallow feeder system; gases believed to have migrated from a depth of 9 to 11 kilometers earlier in 1982 may also have contributed to the forcing mechanism. See page 1391. [James Zollweg, University of Washington Geophysics Program, Seattle 98195]