



Measurement of SO₂ and BrO in the plumes of Mexican volcanoes

Matthias Fickel and Hugo Delgado Granados

Universidad Nacional Autónoma de México, Instituto de Geofísica, Vulcanología, México D. F., México
(mfickel@geofisica.unam.mx)

Permanently installed spectroscopic instruments for monitoring sulfur dioxide (SO₂) emissions from the volcanoes Popocatepetl and Fuego de Colima in Mexico, built up within the project NOVAC (Network for Observation of Volcanic and Atmospheric Change), have been gathering data for some years now, using Differential Optical Absorption Spectroscopy (DOAS). Instrument data for SO₂ emissions is presented, as well as first studies for the detection of bromine monoxide (BrO) in the plumes of these two volcanoes, both using the same spectroscopic data gathered during the last years, and from data gathered during a measurement campaign at Fuego de Colima volcano.