Geophysical Research Abstracts, Vol. 9, 10048, 2007
SRef-ID: 1607-7962/gra/EGU2007-A-10048

Continuous SO2 flux measurements at Vulcano Island, Aeolian Archipelago (Italy)

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The European NOVAC project (*Network for Observation of Volcanic and Atmospheric Change)* born in 2005 to estimate the global amount of volcanic gas emissions by measurement with UV absorption spectroscopy. To reach this goal the first step is to install a global network of stations for the quantitative measurements. In the framework of European NOVAC project we will make the installation of a scanning DOAS-instruments on Vulcano island.

This volcano is characterized by solphataric activity with a large fumarolic field mainly located on La Fossa summit crater.

During the year 2007 we will install a Scanning Dual-beam miniature – Differential Optical Absorption Spectrometer (Mini-DOAS) developed within the EU-project DORSIVA on a hill with the same height as the La Fossa summit crater in a horizontal distance of about one km. Together with The NOVAC -instrument a weather station will be installed to acquire contemporaneously the wind velocity and direction.

All the data will be acquired with Chalmers-software and directly sent into the database of the Volcanological Centre of Vulcano. Then the data will be available inside of the global world network of the NOVAC project.