

## Auxiliary material for

A comparison of satellite- and ground-based measurements of SO<sub>2</sub> emissions at Tungurahua volcano, Ecuador

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### Introduction

This auxiliary material comprises one figure, with accompanying caption, described below. It is referred to in the manuscript with “Supplementary Material”, in parentheses.

**Caption:** Scatterplots of percentage difference between daily OMI and REMOTE SO<sub>2</sub> mass loadings, for the interval October--November 2007, versus the corresponding daily value of *some parameter*. A range of parameters were compared to percentage difference, to assess whether any of them were a dominant control on agreement between satellite and model data, on individual days. As the plots show, there is no evident correlation between any individual parameter, and percentage difference, suggesting that no single parameter is a dominant control on agreement.