

(a) 0 30 60 90 120 150

Volcanic SO₂ burden (Tg SO₂)

10¹

10⁰

10⁻¹

- TOVS
- * TOMS
- SBUV
- Aircraft
- ▼ MLS, column above 21 km

(b)

Volcanic SO₂ e-folding time (days)

600

500

400

300

200

100

0

- MAM 5 Tg S, region
- - MAM 5 Tg S, 1 column
- CARMA 7 Tg S, region Vehk
- - CARMA 5 Tg S, 1 column Zhao
- ... CARMA 5 Tg S, region Zhao
- · - CARMA 5 Tg S, region Vehk

0 30 60 90 120 150

Days after Pinatubo eruption