

# Supplement to: HFC-23 (CHF<sub>3</sub>) emission trend response to HCFC-22 (CHClF<sub>2</sub>) production and recent HFC-23 emission abatement measures

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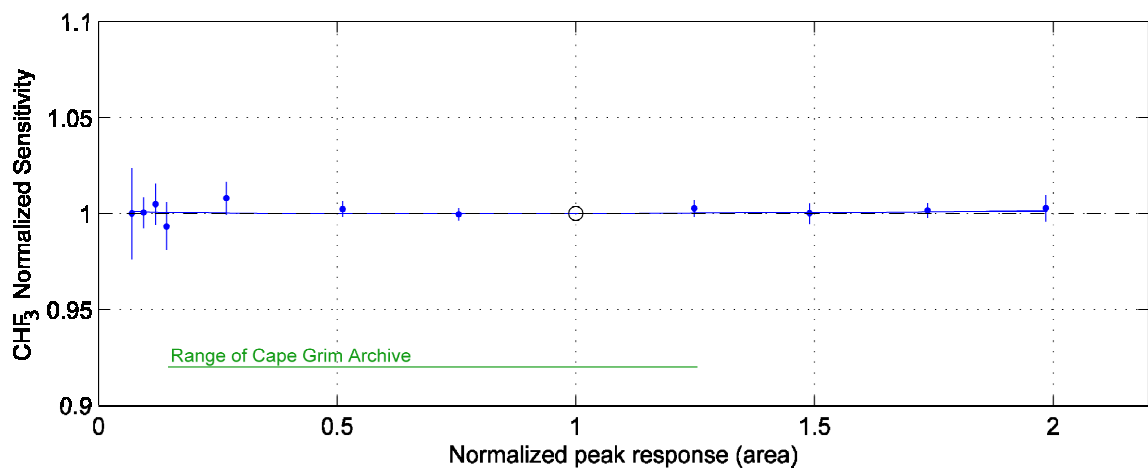


Figure S1: The linearity of Medusa9 GC/MSD for HFC-23 (CHF<sub>3</sub>) was determined by different volume samplings (blue dots with error bars) of a single compressed whole air sample. The normalized quantities were calculated as the ratio of sensitivity or peak (area) response from these samplings to that of nominally 2-L samplings (black open circle) of the same gas that bracket the samplings of different volumes. The instrument was determined to be linear over more than the mole fraction range of the Cape Grim air archive, which includes samples taken from 1978-2006 here.

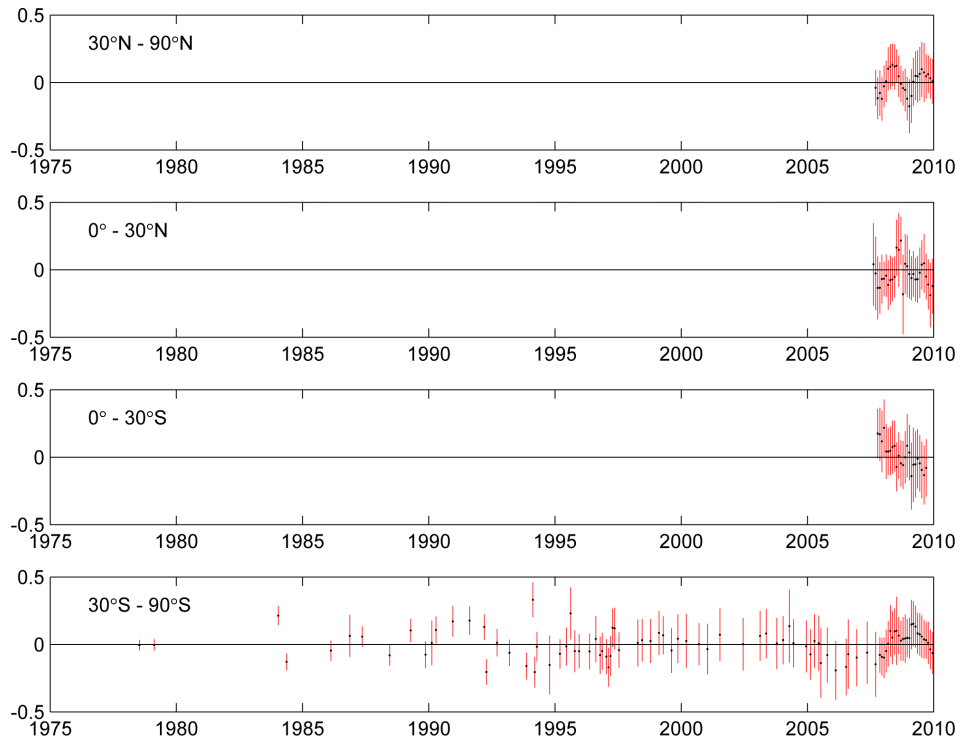


Figure S2: Residual differences of the monthly mean HFC-23 ( $\text{CHF}_3$ ) mole fraction observations minus the model optimized mole fractions for the four lower tropospheric boxes of the model. Error bars represent 1- $\sigma$  uncertainties, which include measurement errors along with uncertainties associated with sampling frequency and data-model mismatch.