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Importance of reactive halogens in the tropical marine atmosphere: a regional modelling study using WRF-Chem

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1 Figures

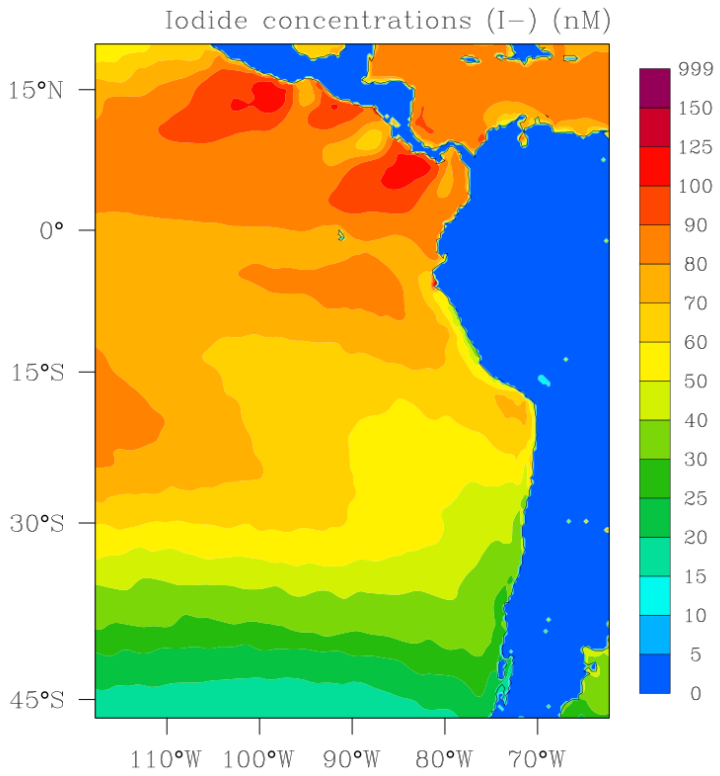

Figure S1: Mean oceanic surface iodide concentrations (I^-) during January and February 2012. Ocean surface I^- is parameterized using MacDonald et al. (2014).

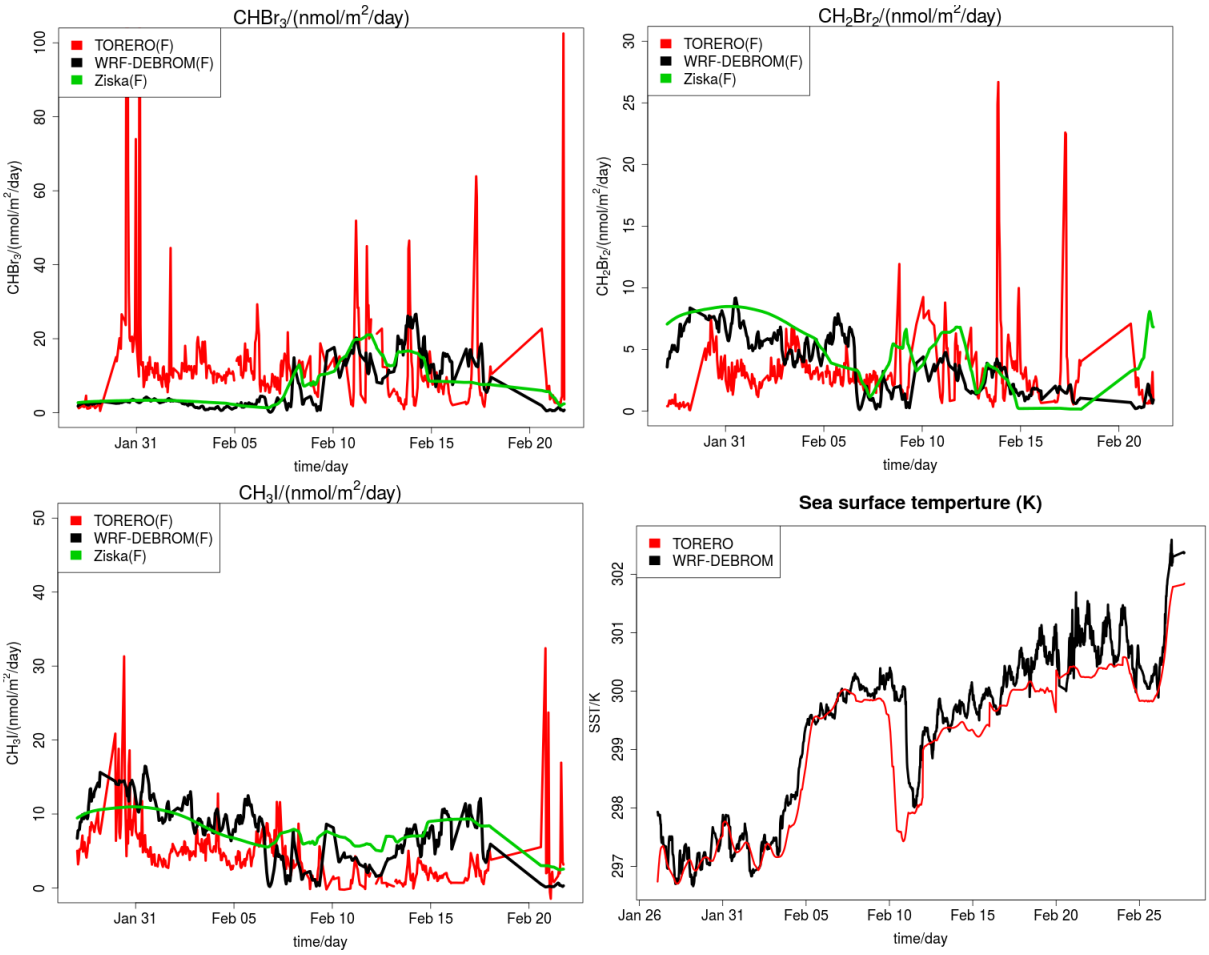

Figure S2: Time series of $CHBr_3$ (top left), CH_2Br_2 (top right) and CH_3I (bottom left) emission fluxes (left axis, in nmol/m^2/day) derived from the measurements (red line, TORERO(F)), the online fluxes (black line, WRF-BASE(F)) and the fluxes from the Ziska et al. (2013) climatology (green line, ZISKA(F)).

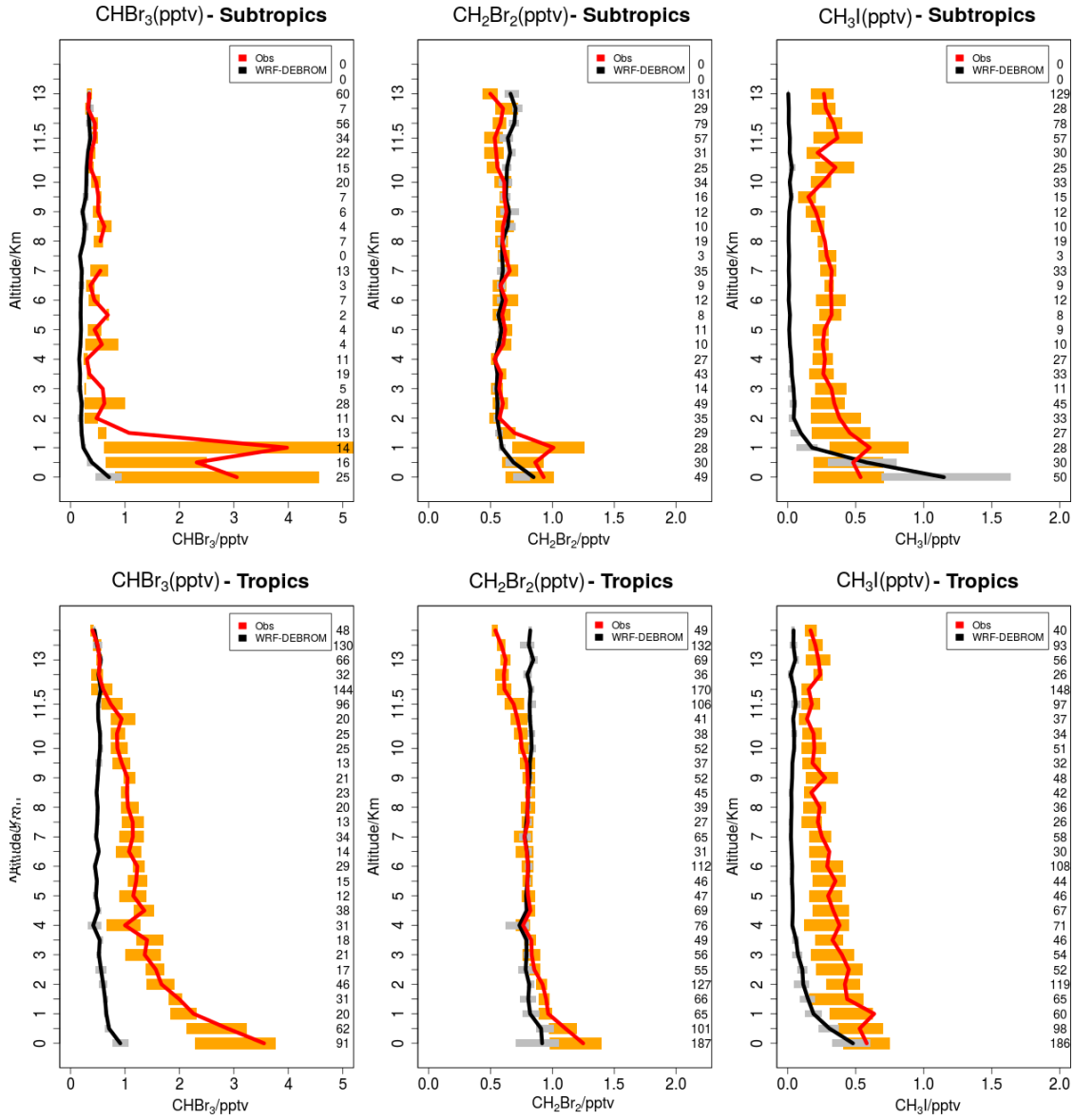

Figure S3: Mean vertical profile of $CHBr_3$ (left), CH_2Br_2 (middle) and CH_3I (right) in pptv over the subtropics (top) and tropics (bottom). 16 flights from the TORERO campaign (red line) are compared to the WRF-Chem simulation DEBROM (black line). Orange and grey horizontal bars indicate the 25th-75th quartile interval for the observations and WRF-DEBROM simulation, respectively. Values are considered in 0.5 km bins and the number of points for each altitude is given on the right side of each plot.

References

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