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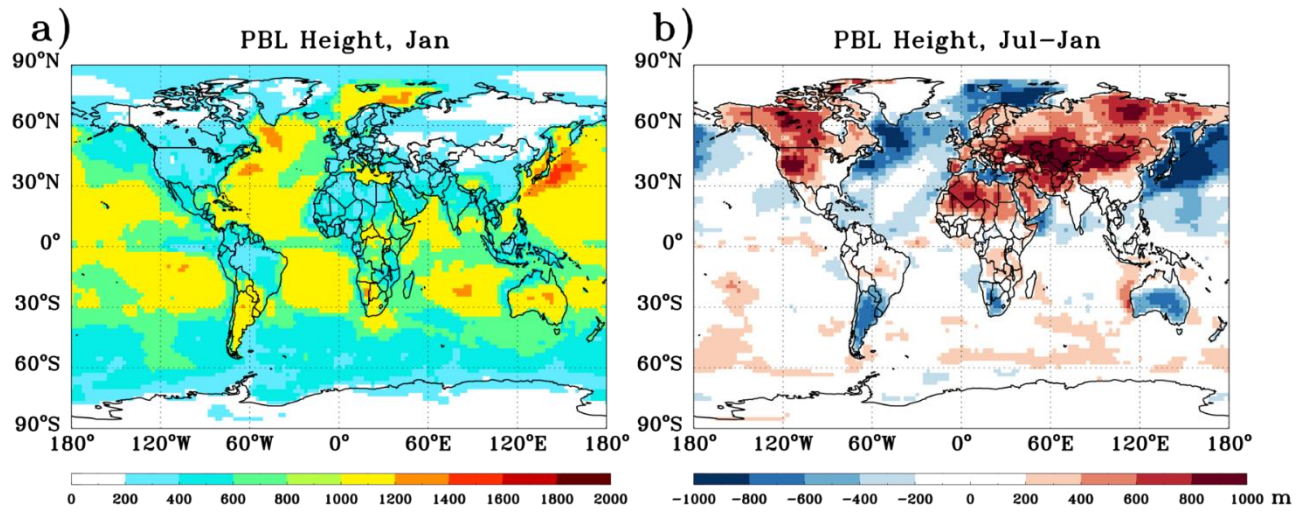
Supplement of

Simulation of radon-222 with the GEOS-Chem global model: emissions, seasonality, and convective transport

Bo Zhang et al.

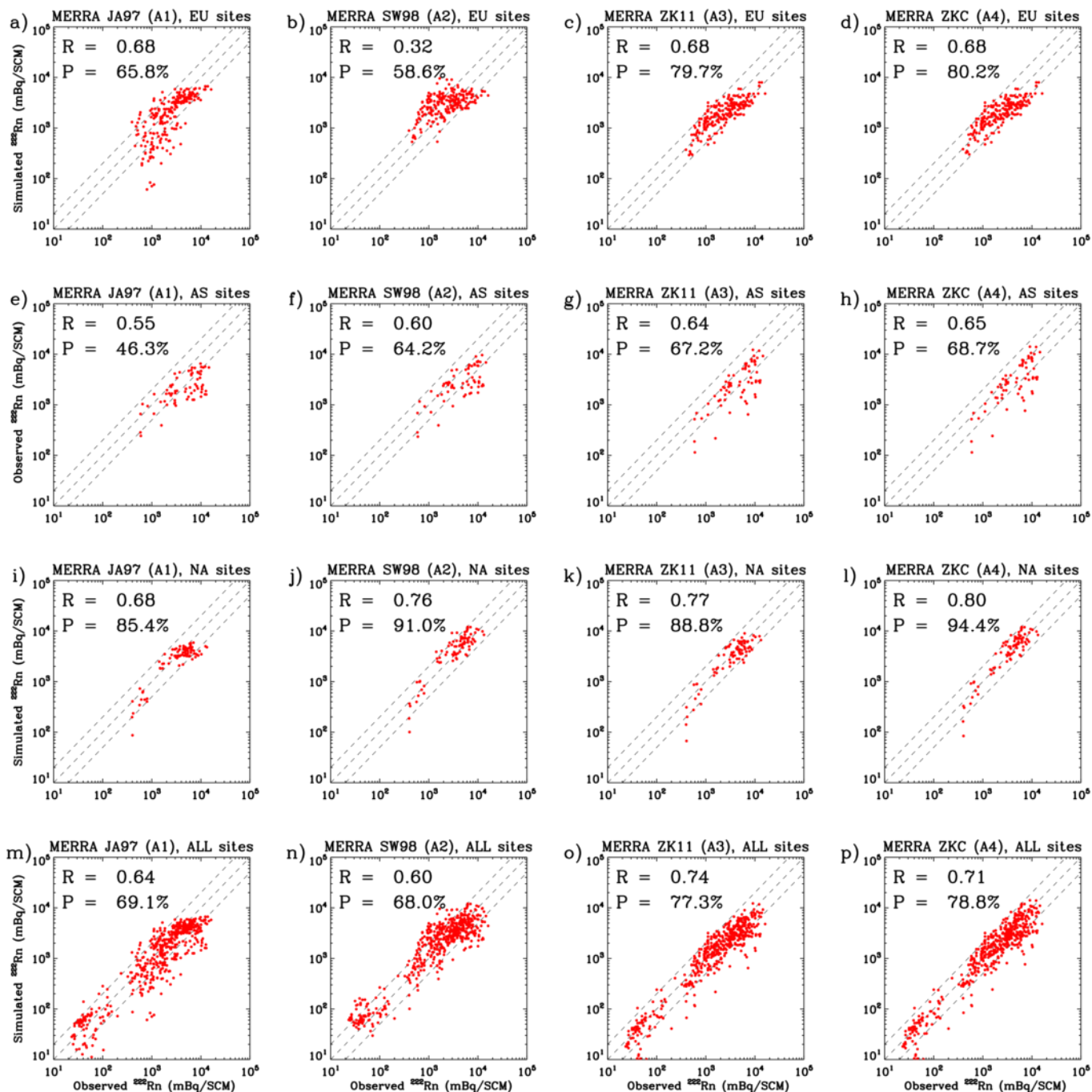
Correspondence to: Hongyu Liu (hongyu.liu-1@nasa.gov) and Bo Zhang (bo.zhang@nianet.org)

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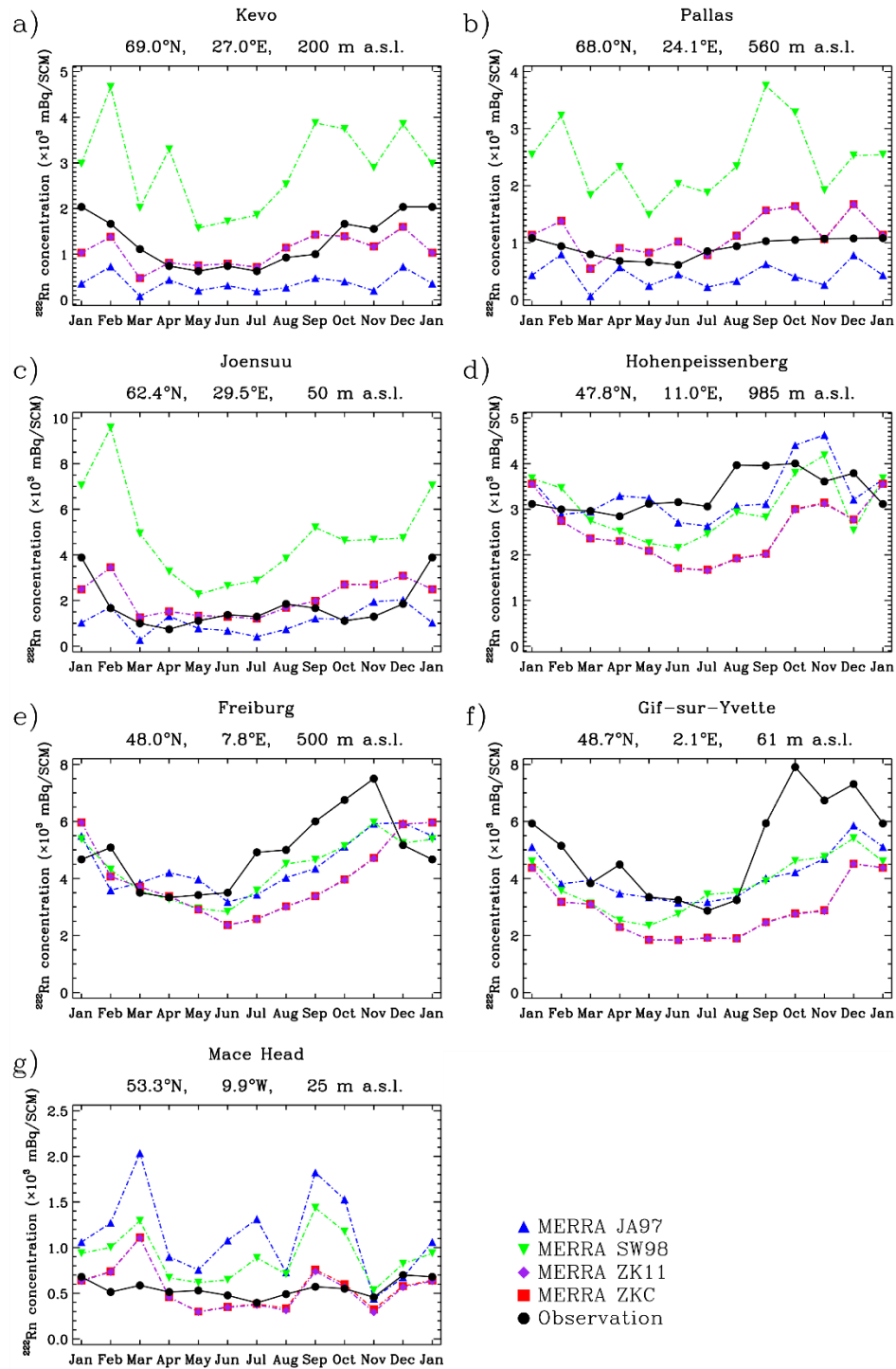
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Figure S1. Monthly mean planetary boundary layer height (m) in MERRA for (a) January and (b) the difference between July and January 2013.



5 **Figure S2.** Same as Fig. 6, but the measured ^{222}Rn concentrations at European sites are applied with scaling factors suggested by Schmithüsen et al. (2017).

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Figure S3. Same as Fig. 8, but the measured ^{222}Rn concentrations at European sites are applied with scaling factors suggested by Schmithüsen et al. (2017).

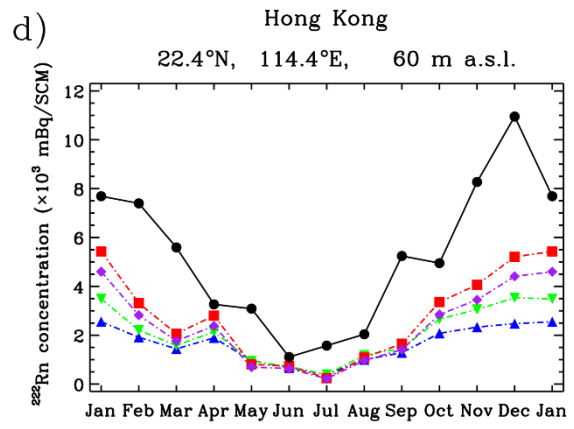
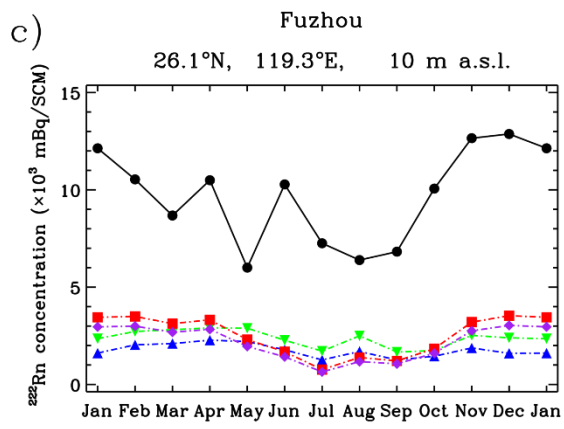


Figure S4. Same as Fig. 9c and 9d, but the simulated ^{222}Rn concentrations are sampled at the gridboxes corresponding to the site locations.