

Supplement of

Simulation of radon-222 with the GEOS-Chem global model:

Emissions, seasonality, and convective transport

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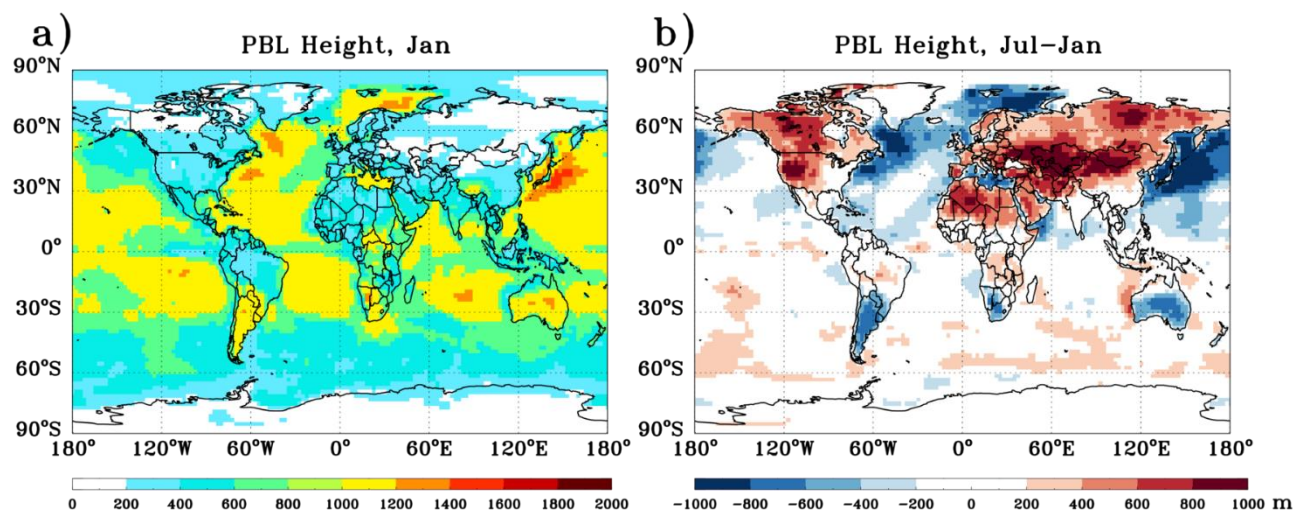
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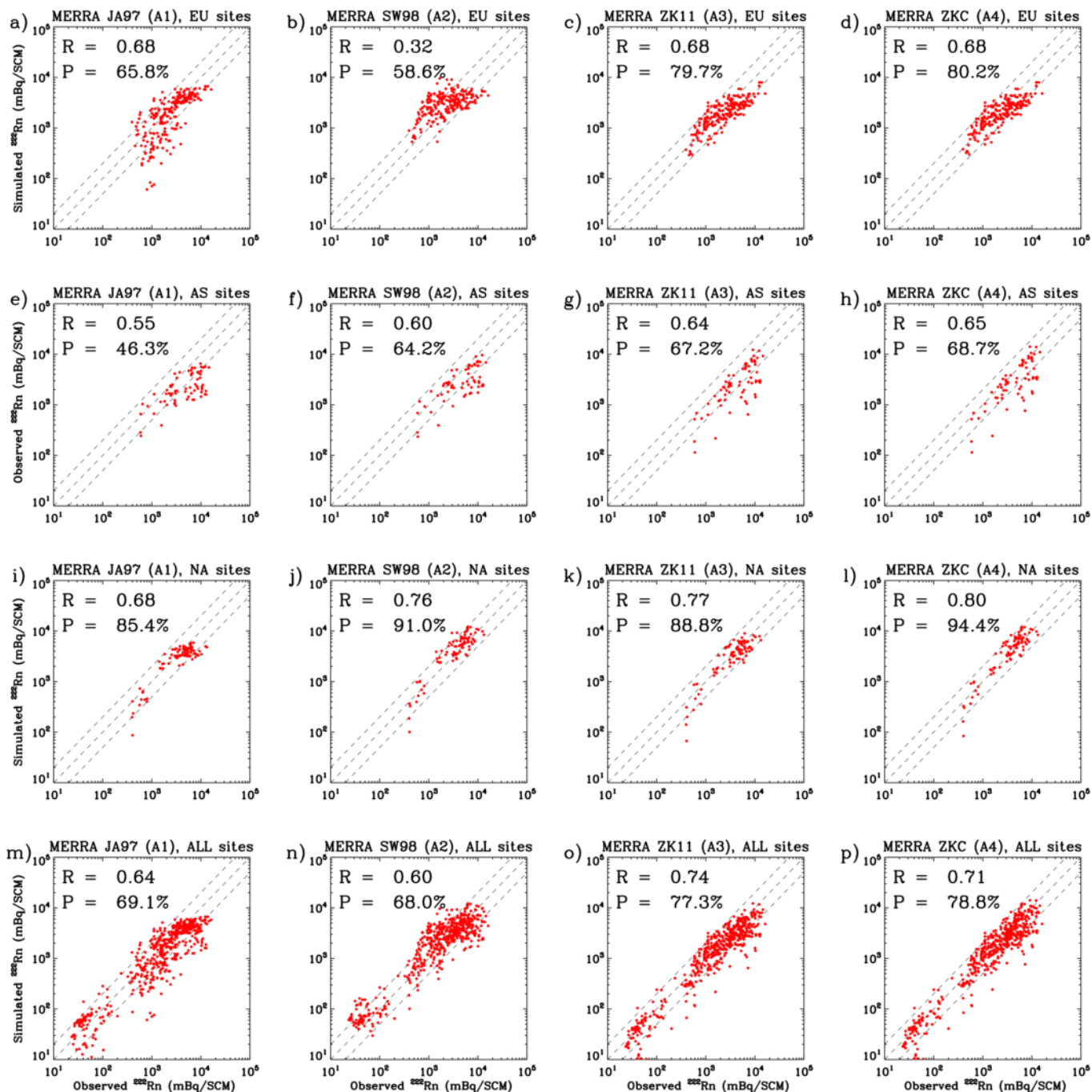
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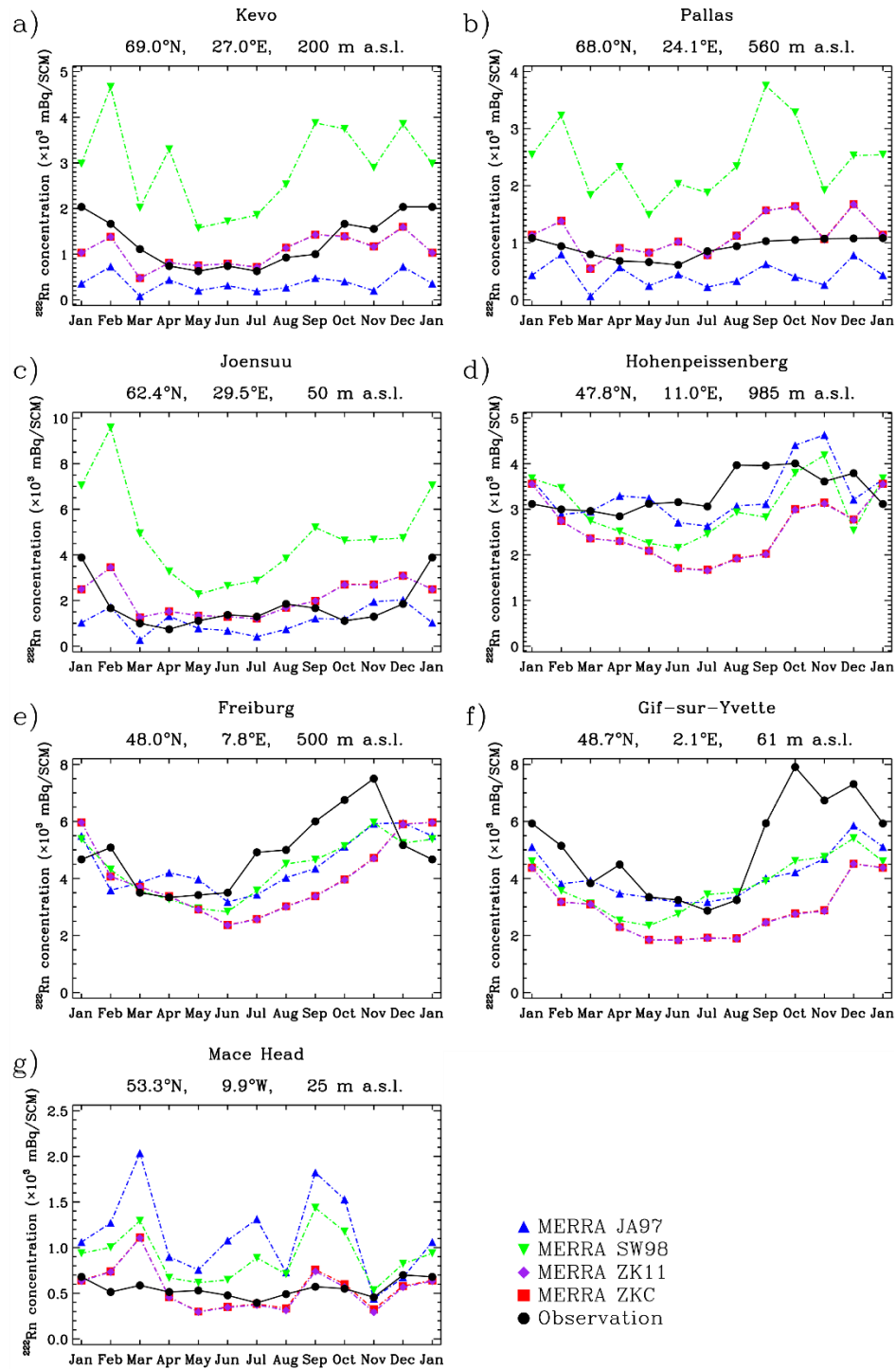
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Figure S1. Monthly mean planetary boundary layer height (m) in MERRA for (a) January and (b) the difference between July and January 2013.



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).