

November 7th, 2023

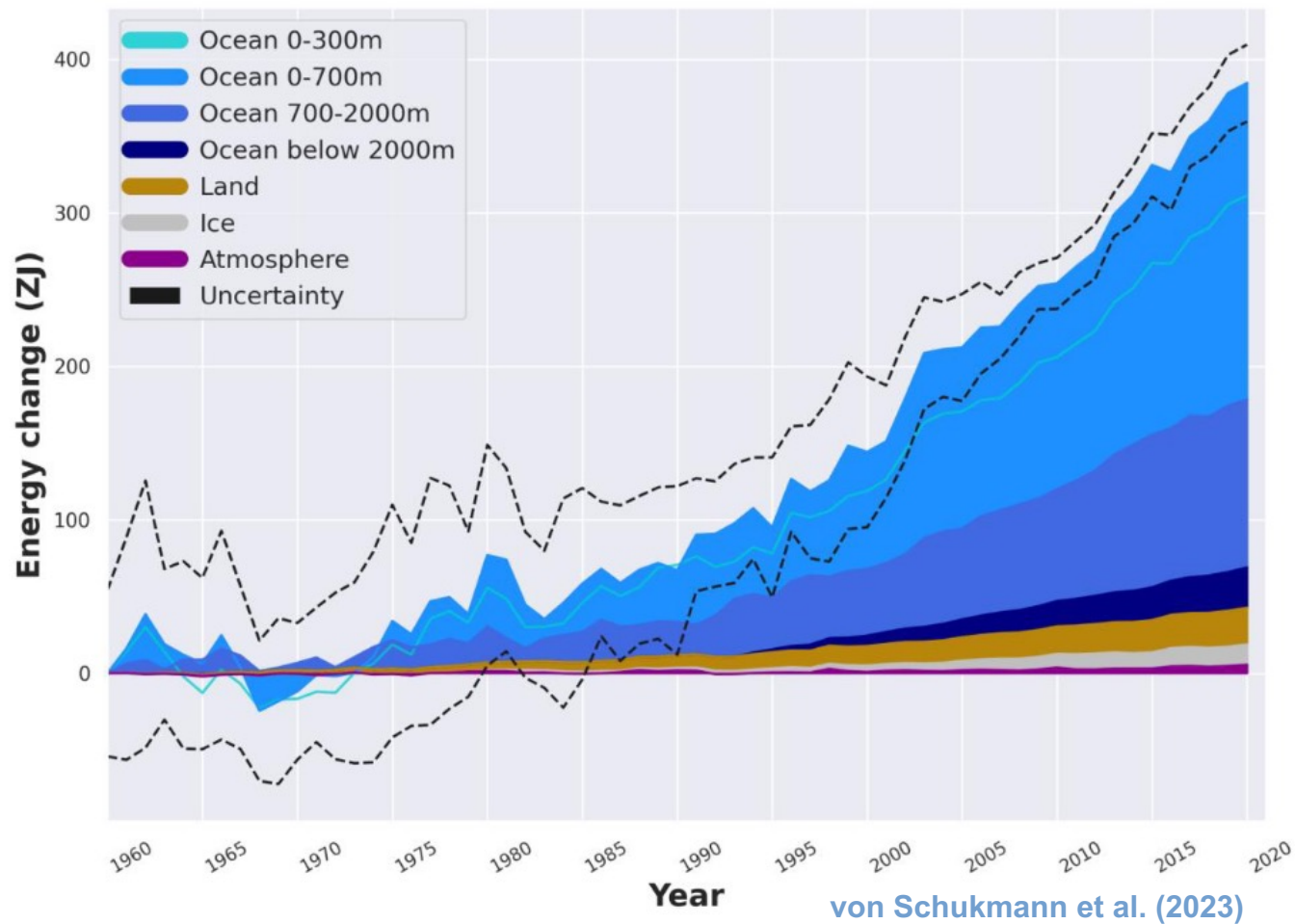
AI4GHEObs: GHF from satellite data

Francisco José Cuesta-Valero

13th ESA CCI Colocation Meeting



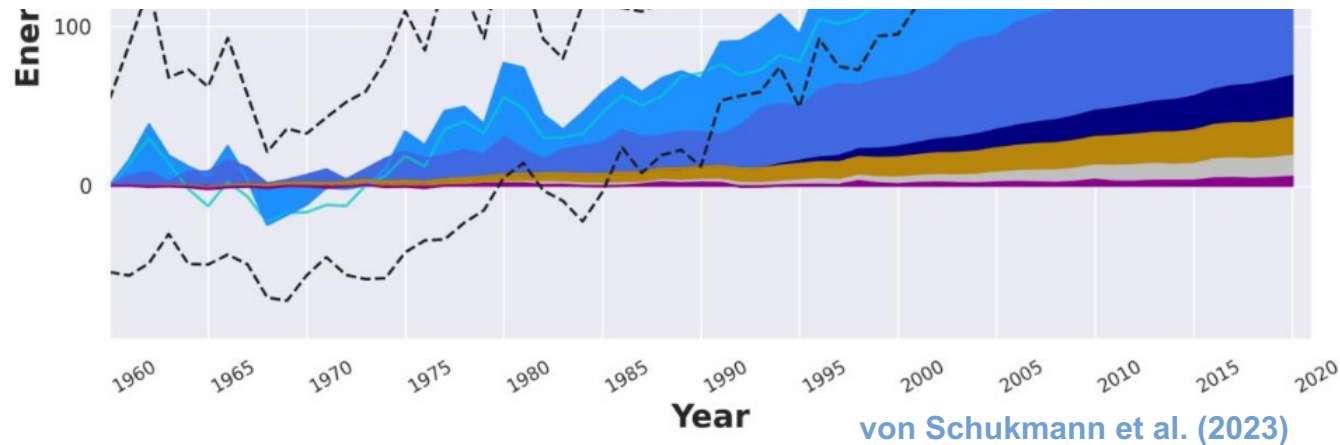
Earth heat inventory



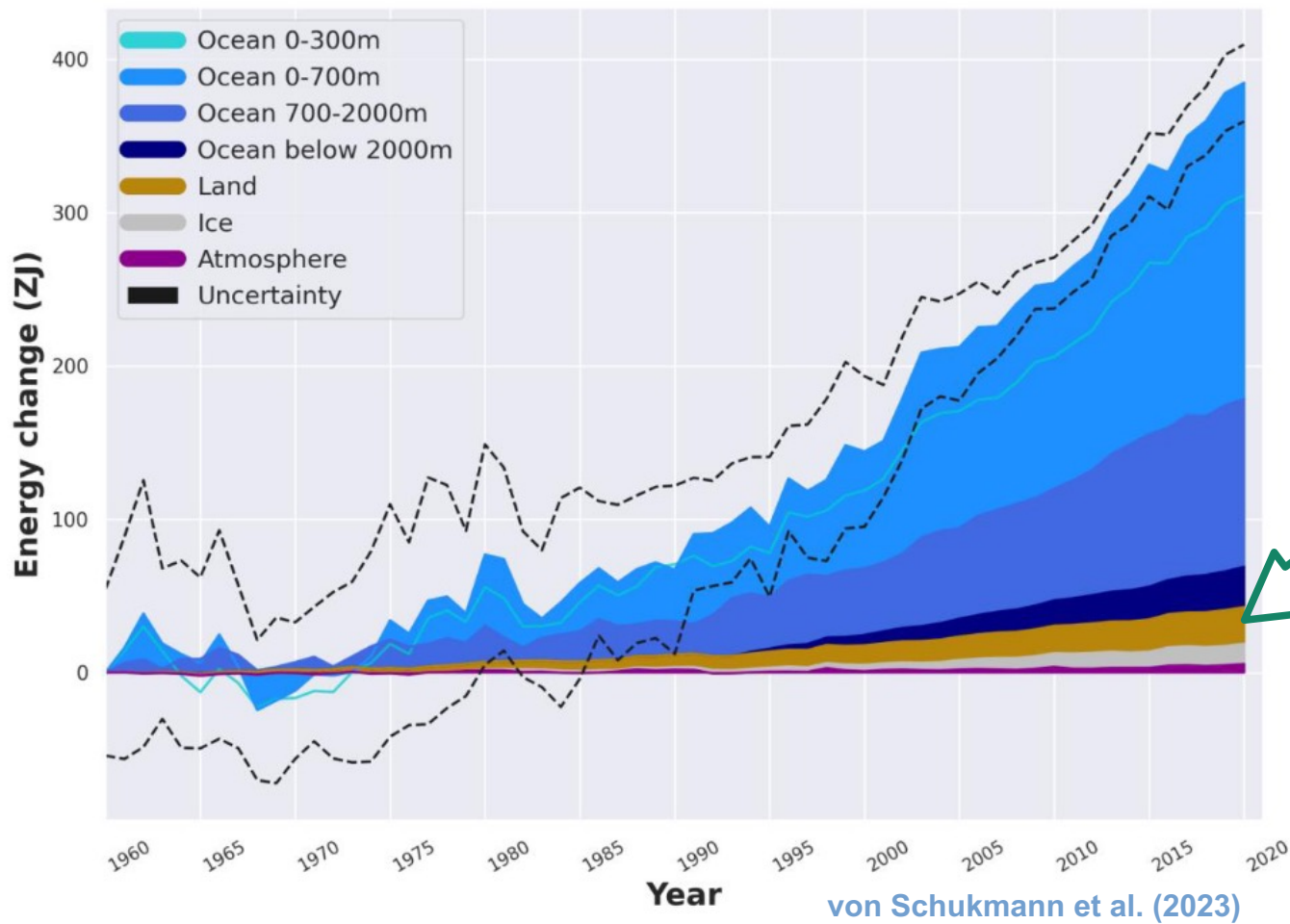
Earth heat inventory



The small terms are also important!

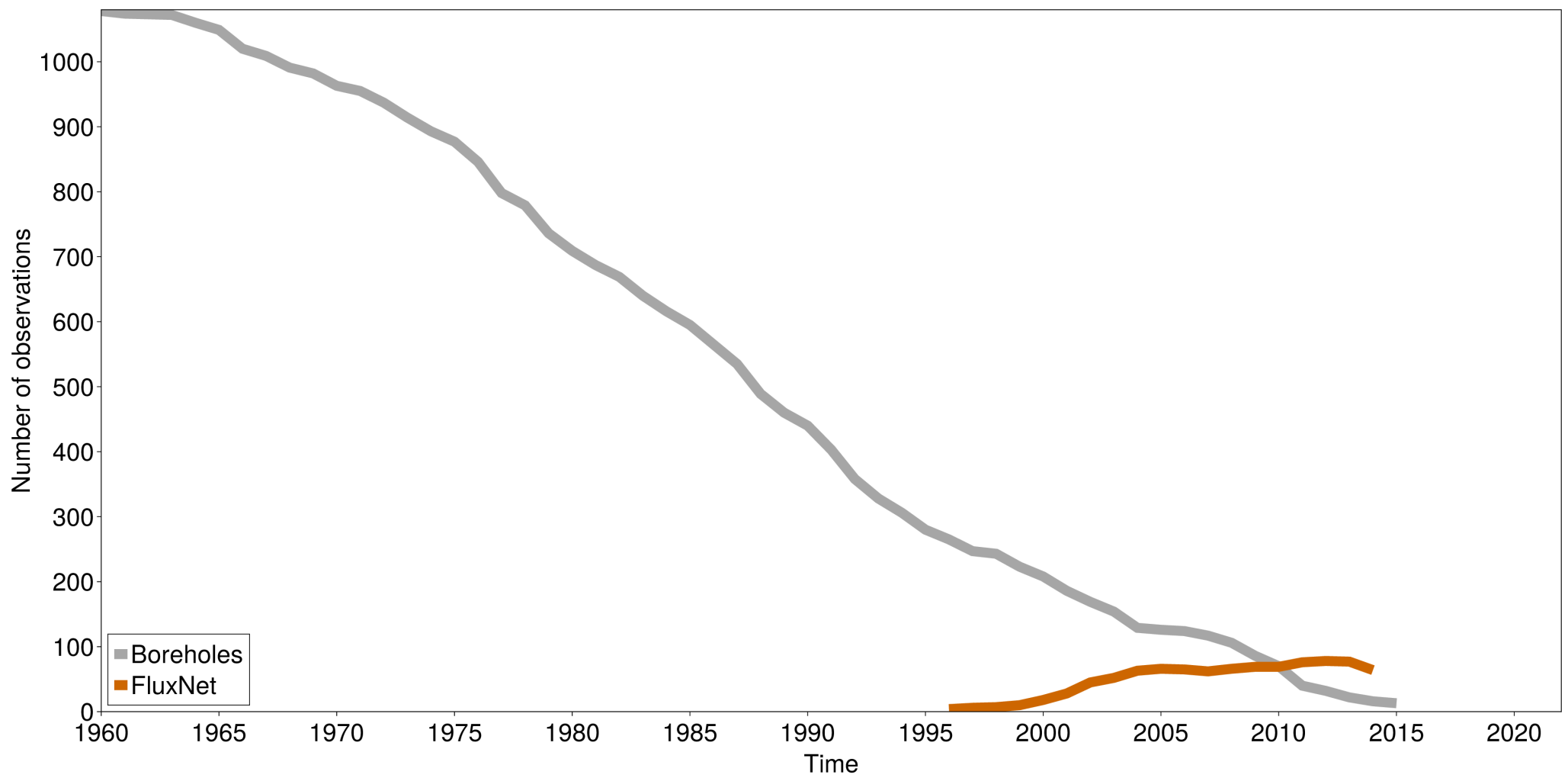


Earth heat inventory

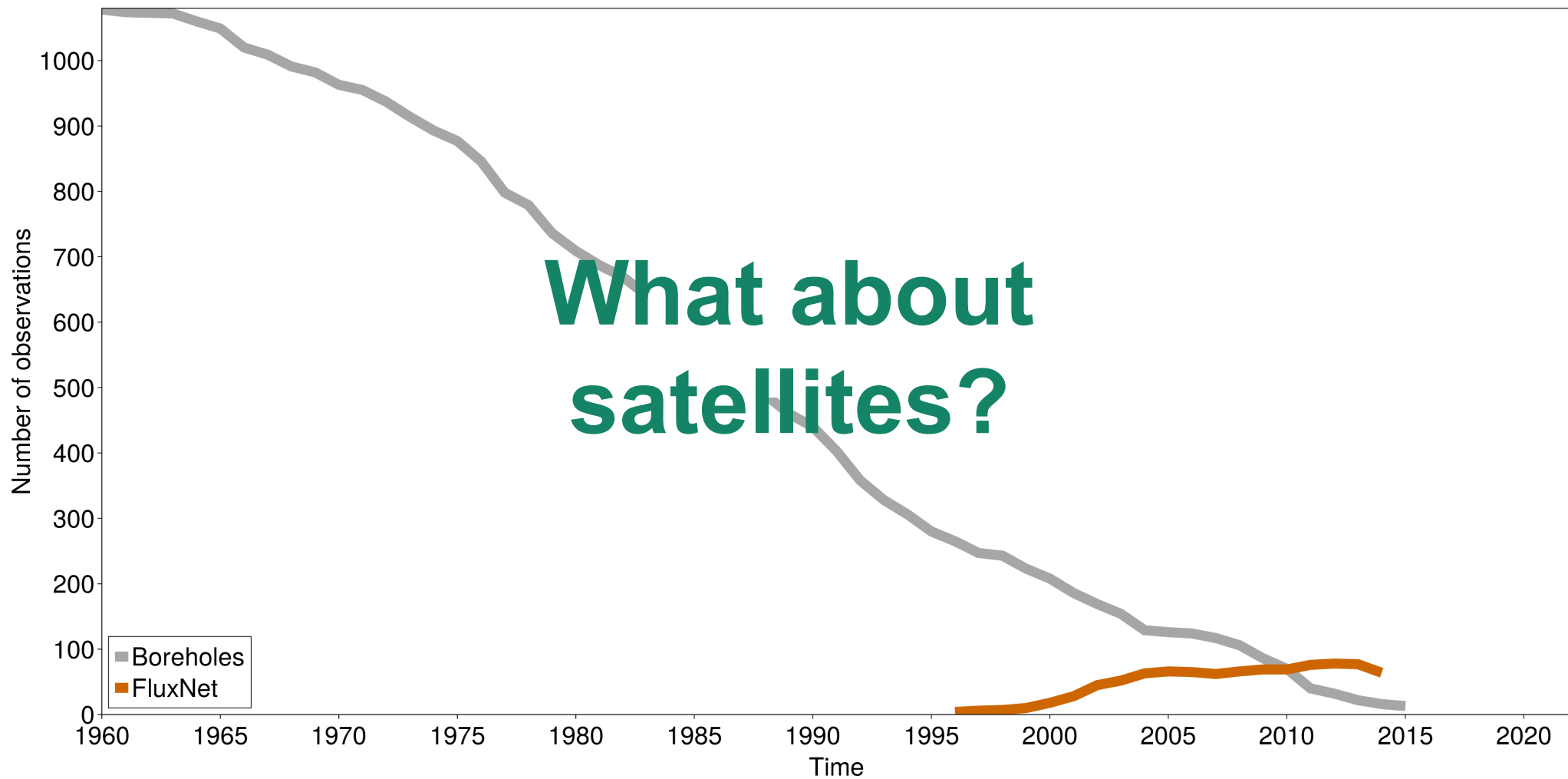


Land term is second largest!

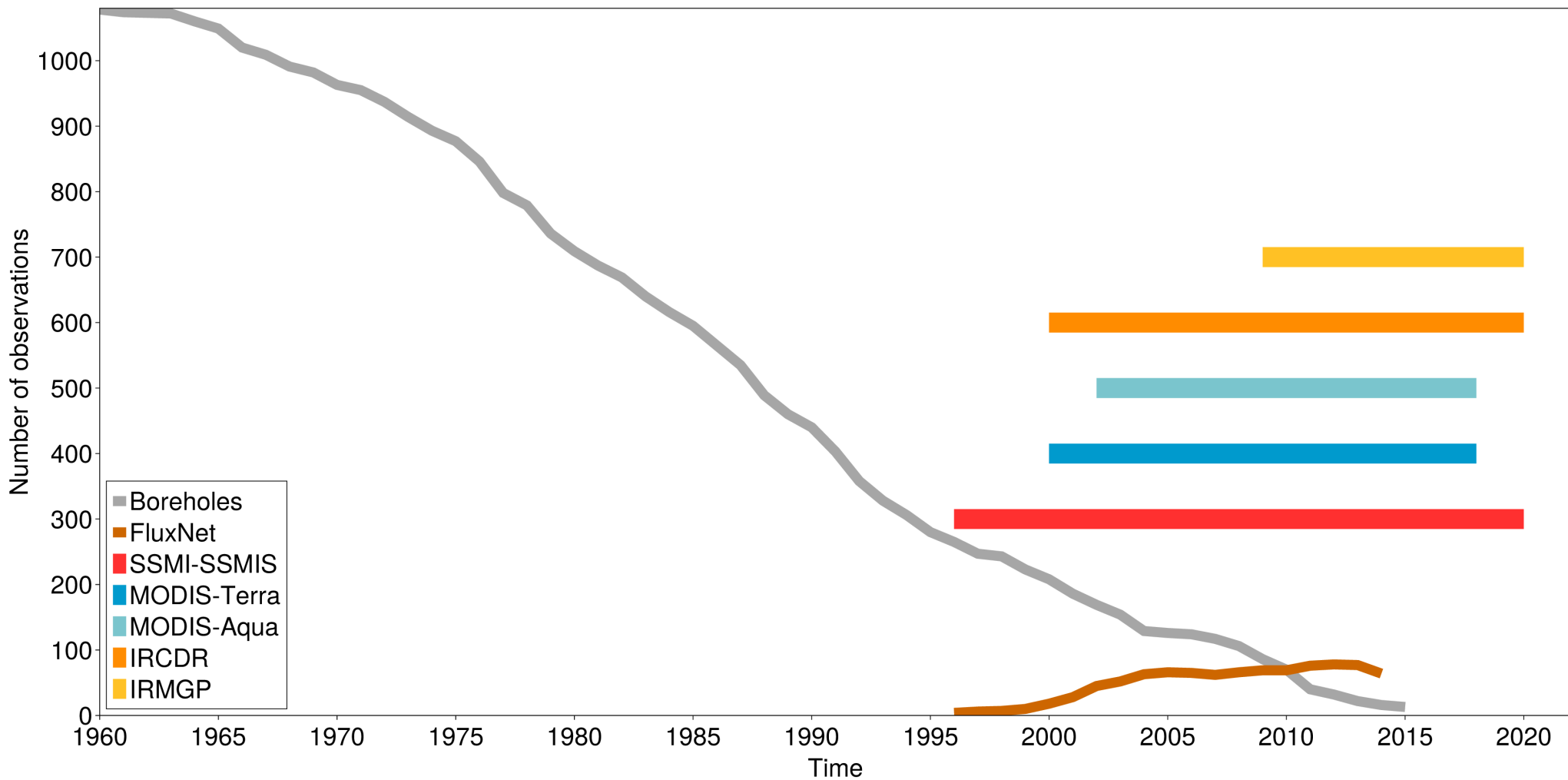
Data availability



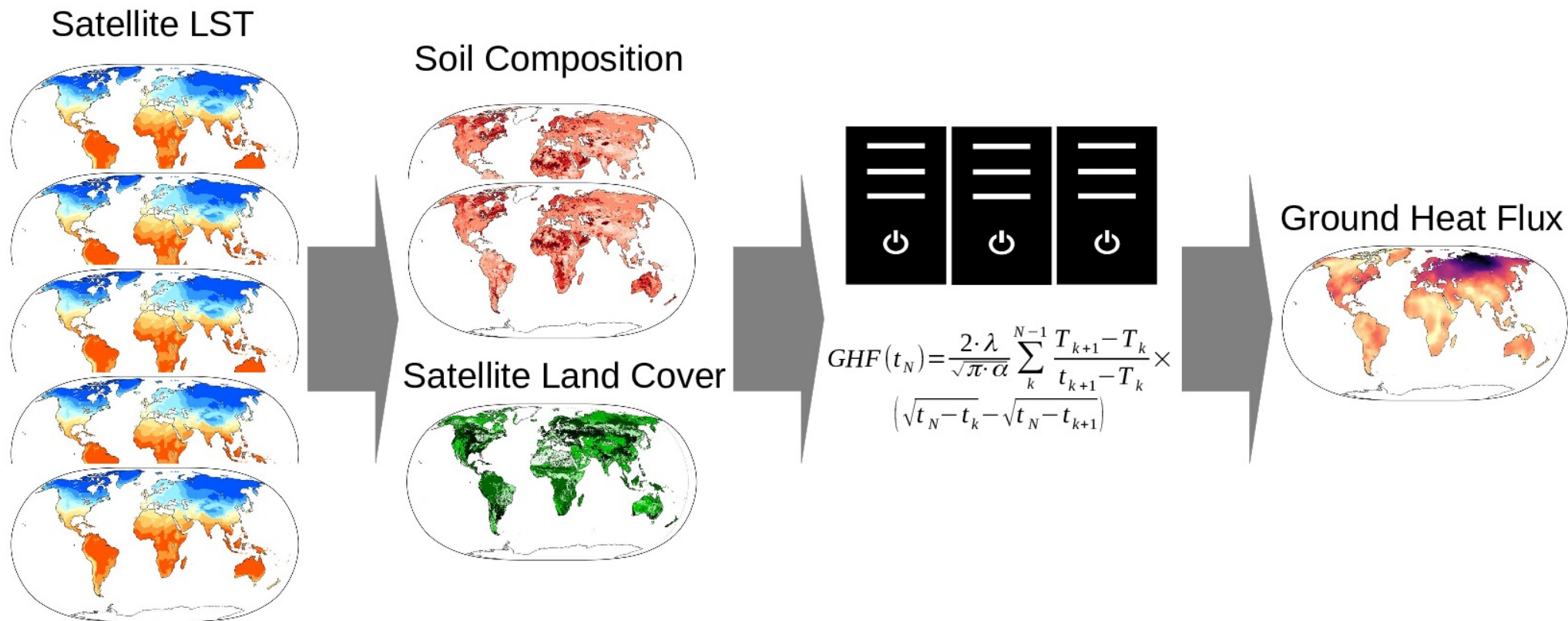
Data availability



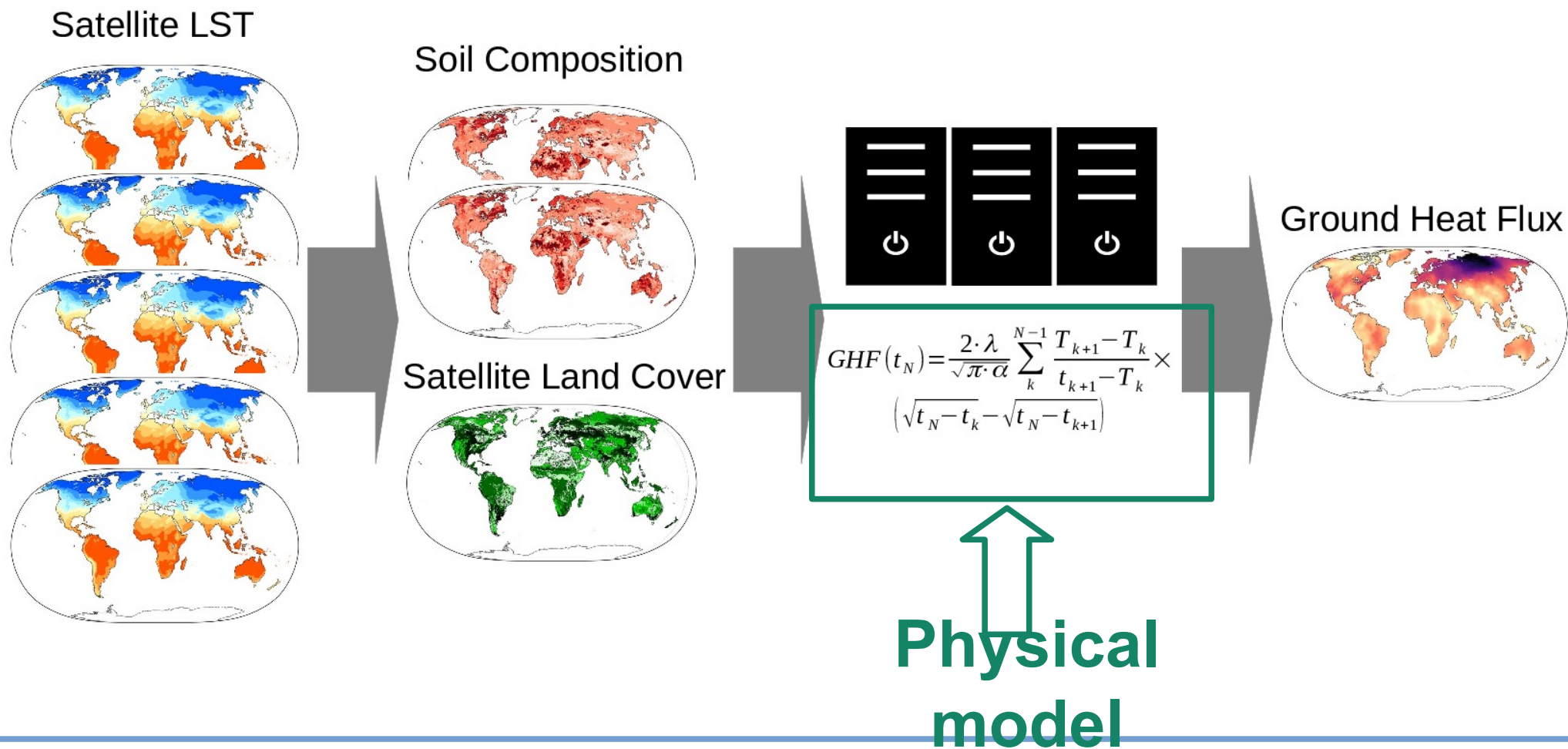
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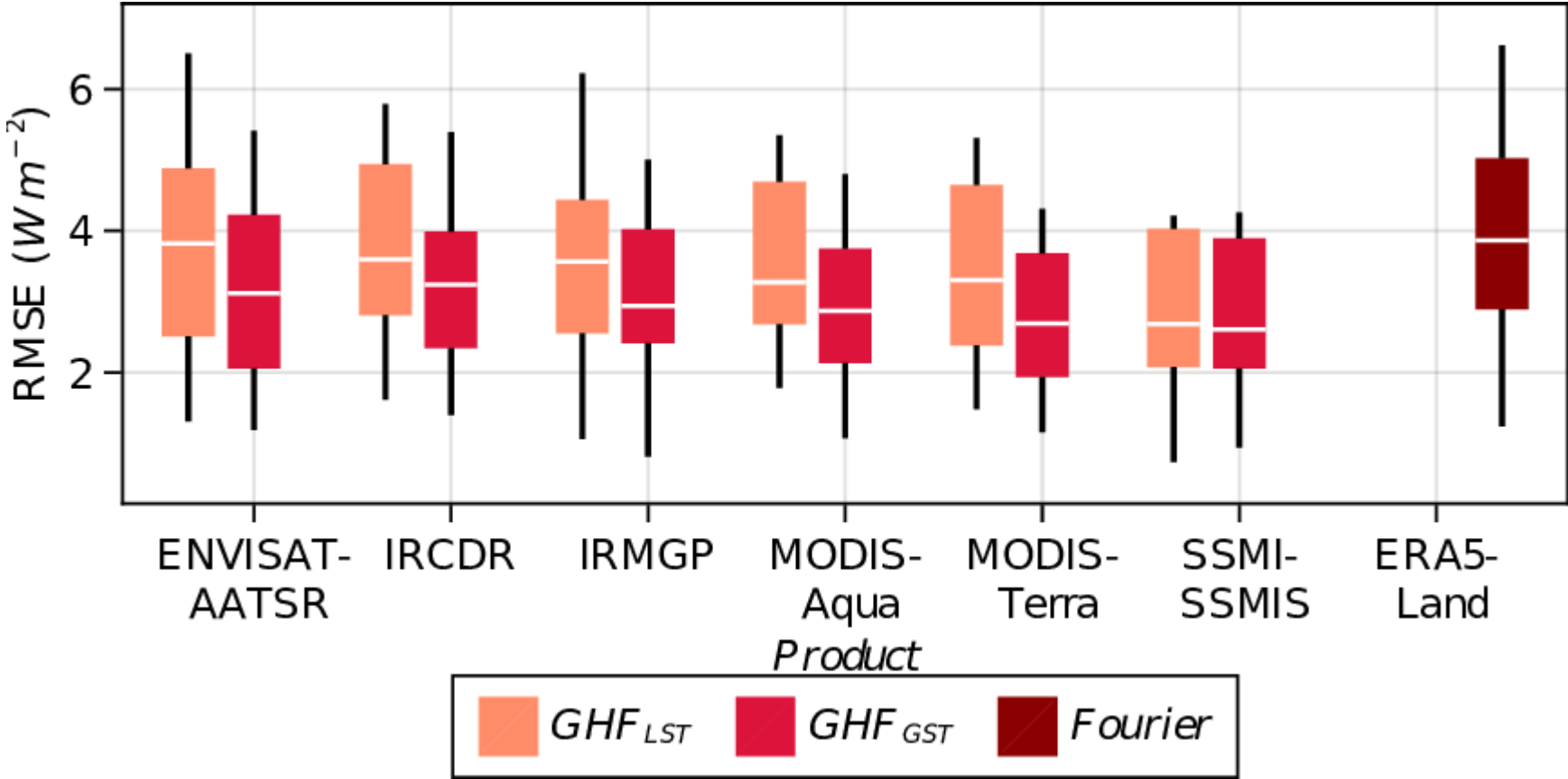
GHF estimates: preliminary results



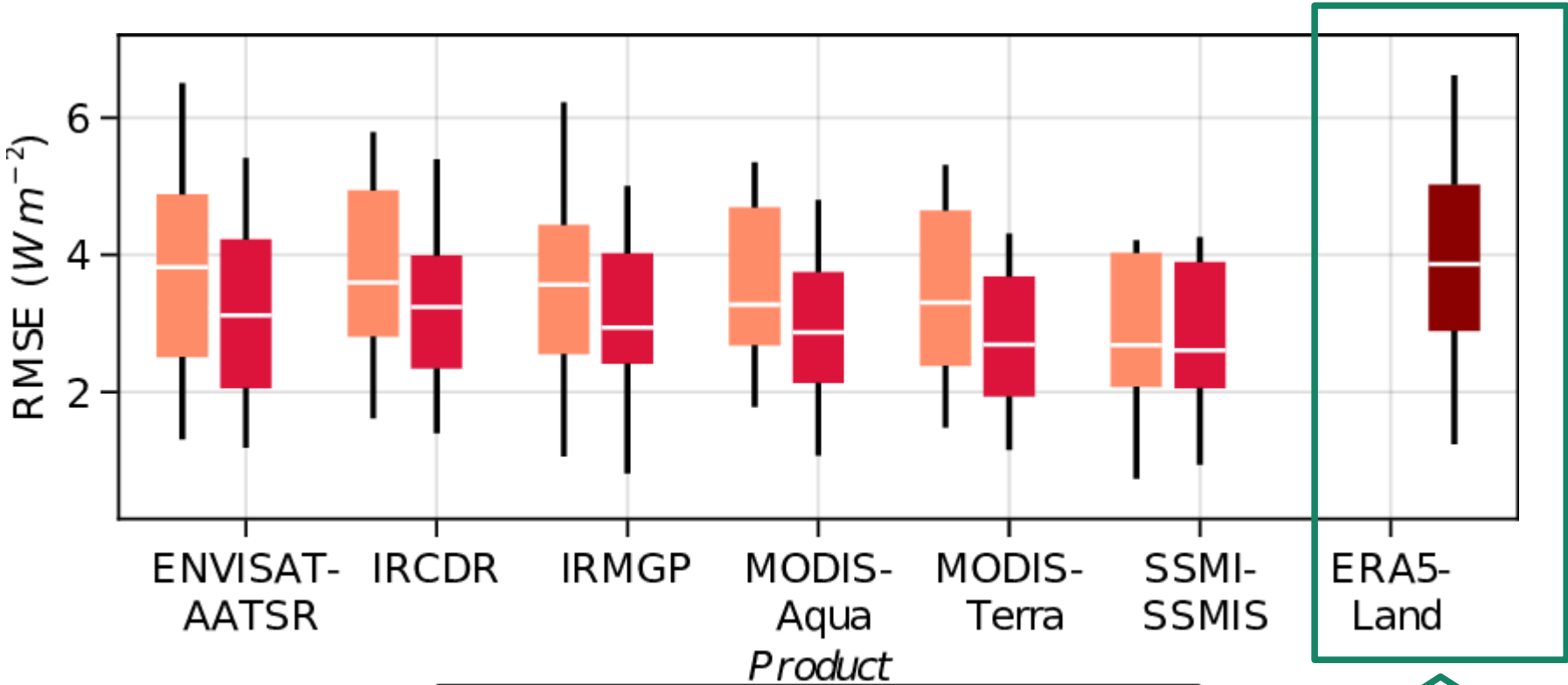
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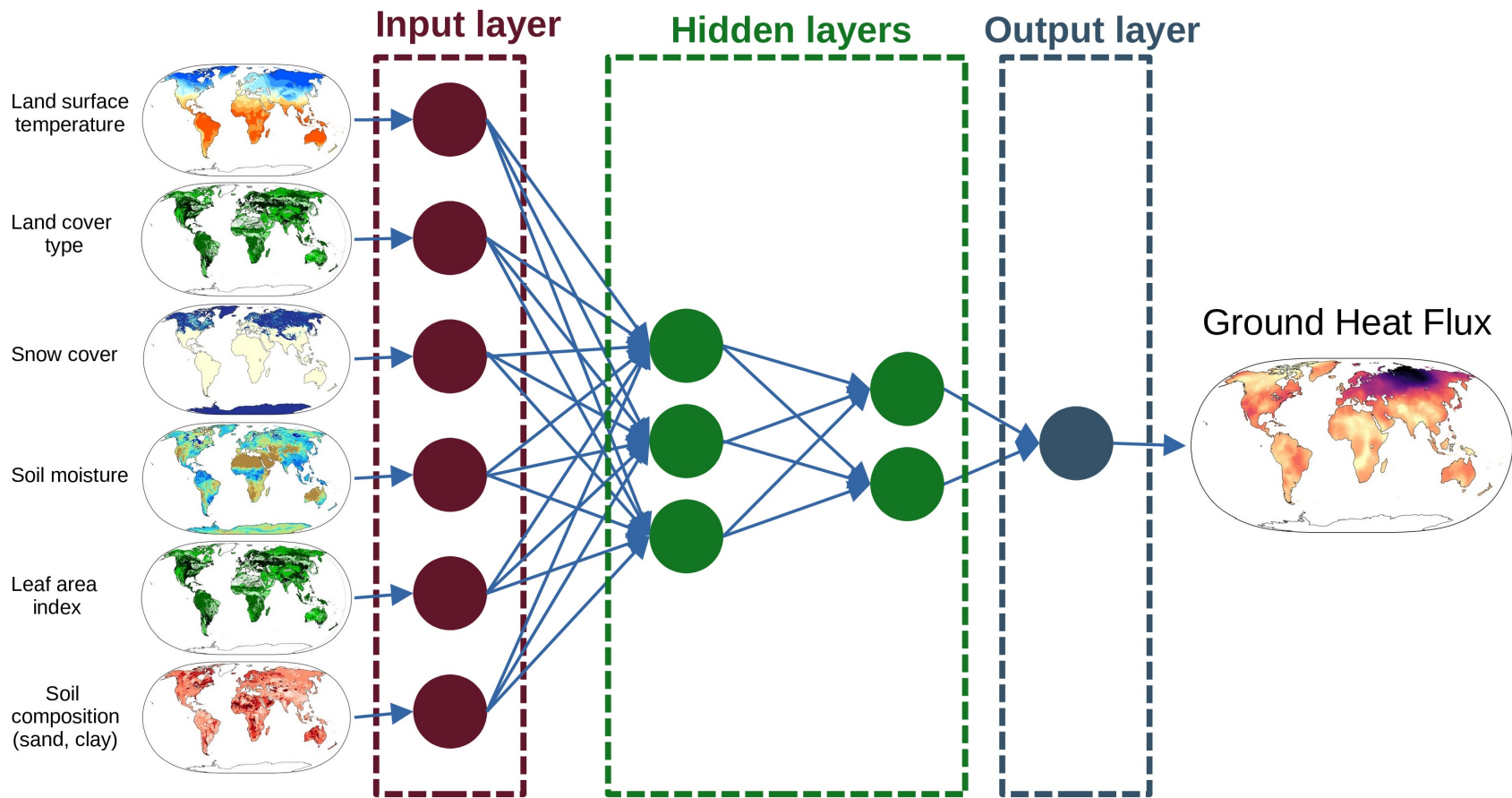


GHF estimates: preliminary results

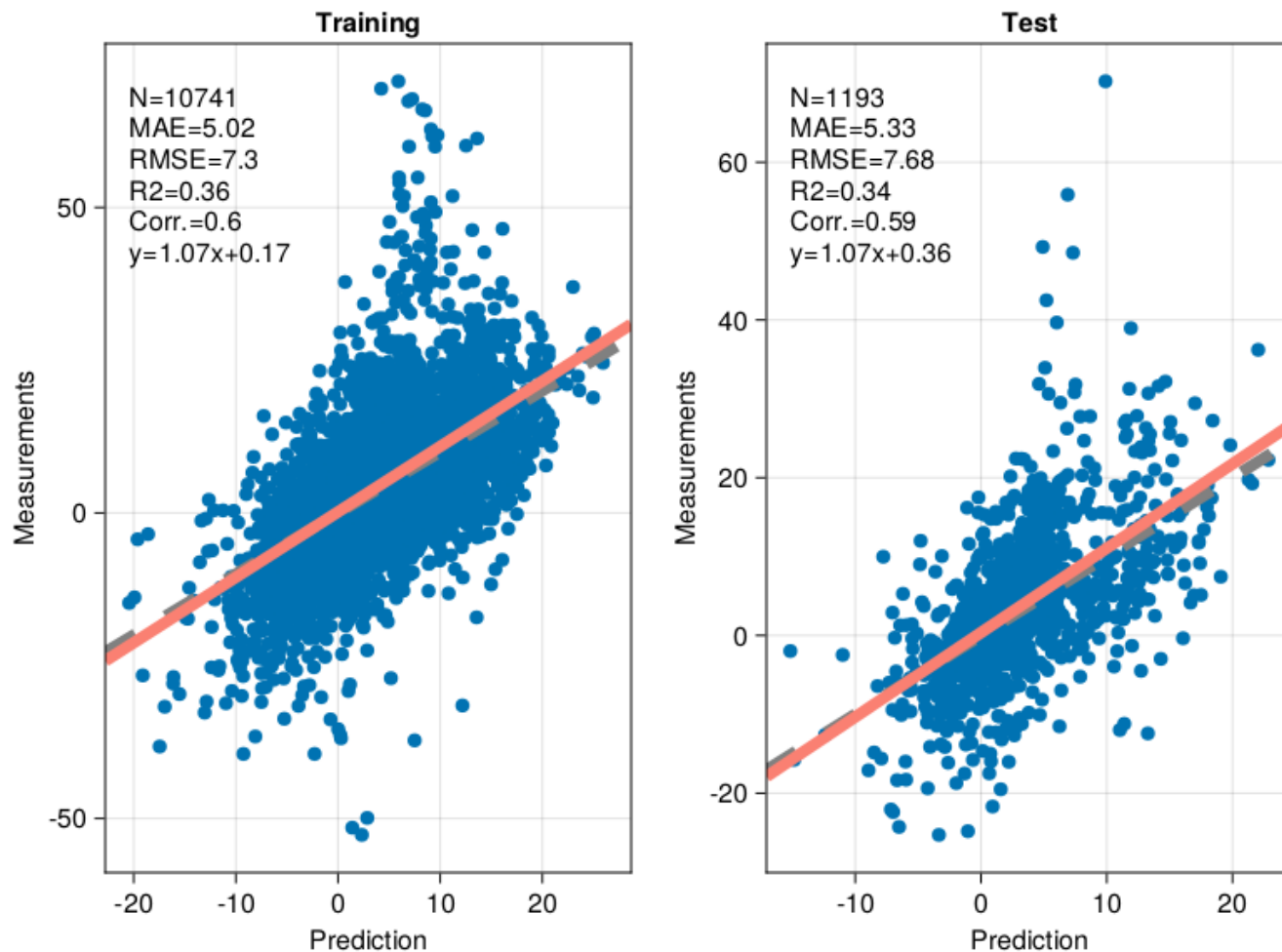


Similar or better than ERA5-Land

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Conclusions

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relevant factors not previously
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Thanks!

¡Gracias!

Danke!

References

- ★ von Schuckmann, K., et al. (2023). Heat stored in the Earth system 1960–2020: where does the energy go? *Earth Syst. Sci. Data*, 15, 1675-1709, <https://doi.org/10.5194/essd-15-1675-2023>.