

Finding Seismic Discontinuities in Mantle Circulation Models: the MTZ and beyond? *Supplementary Figures*



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James Panton^[1]

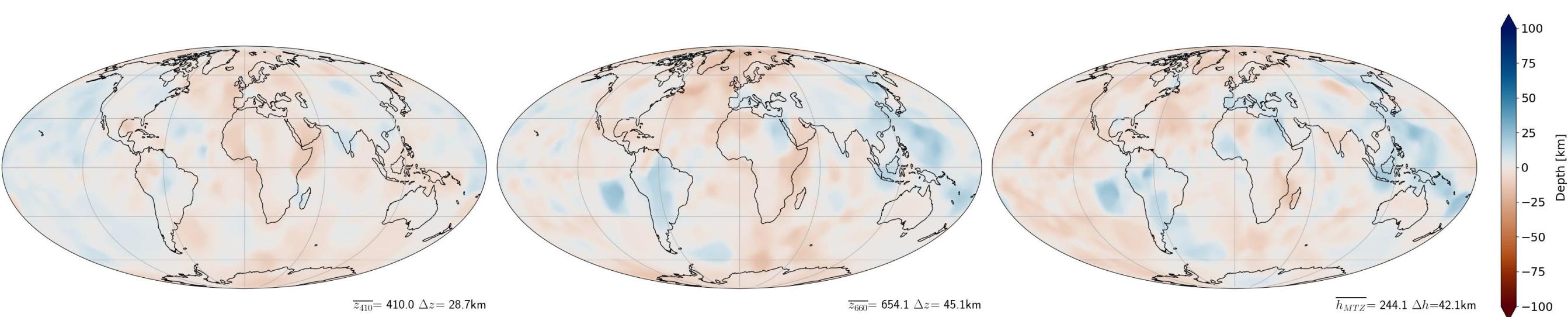
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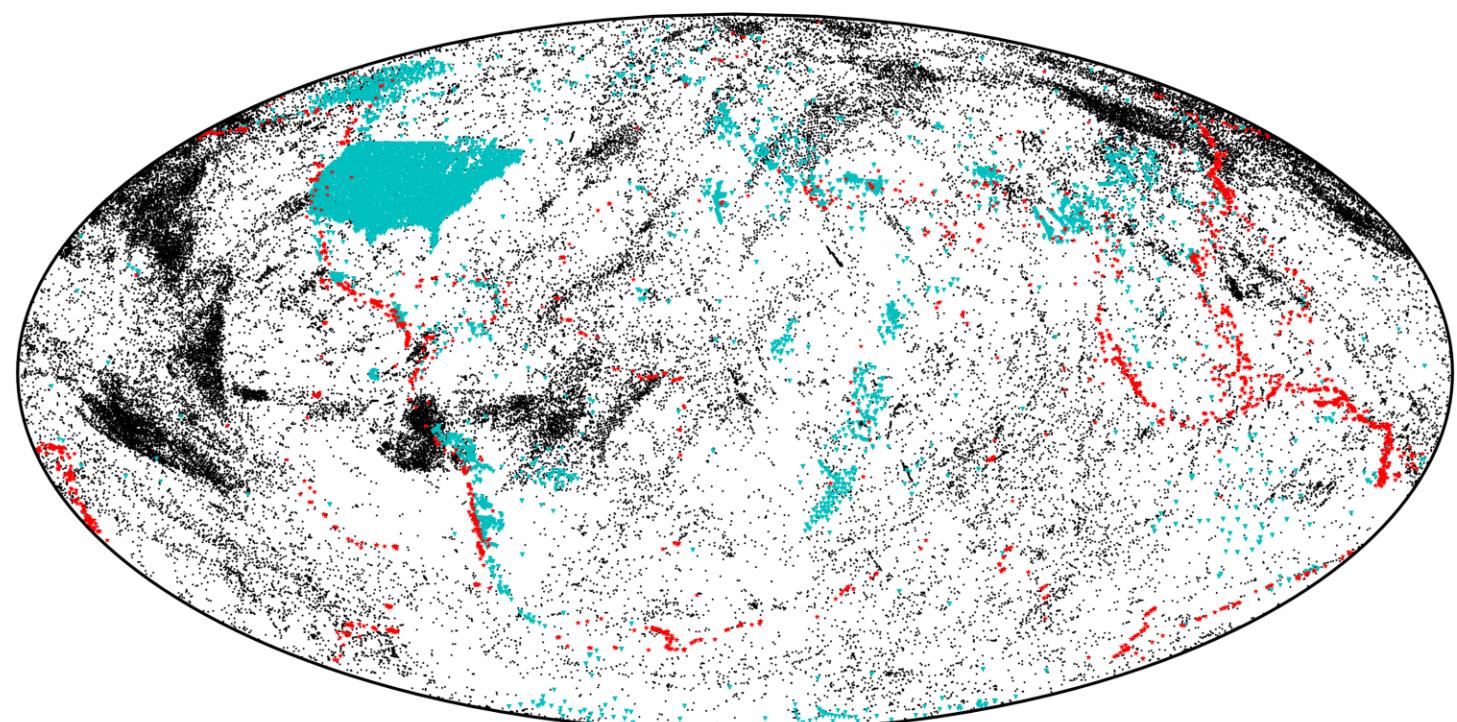
Waszek et al 2021

MTZ topographies

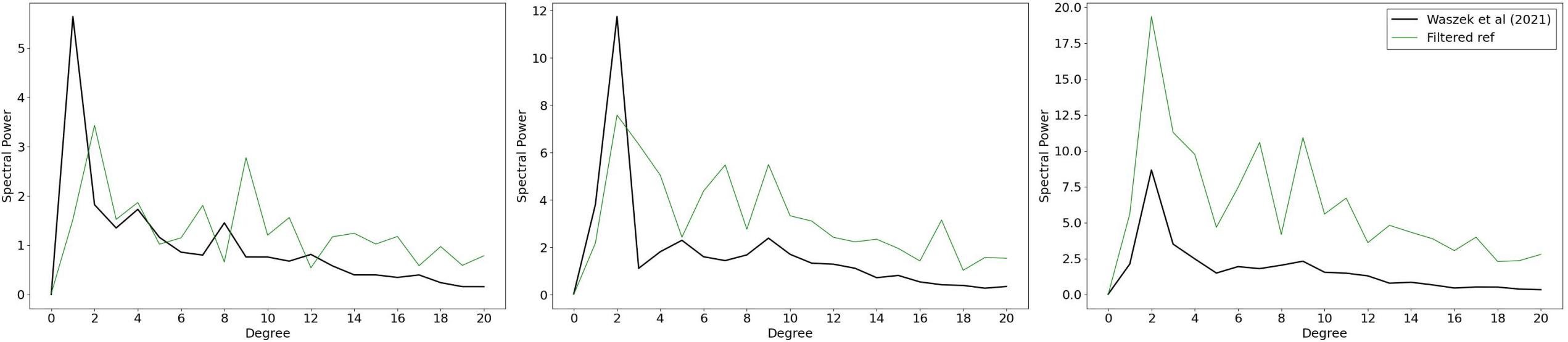
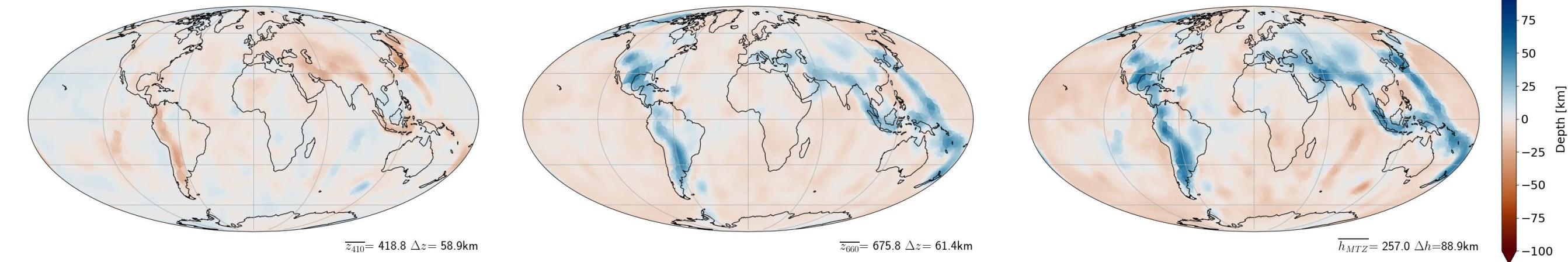
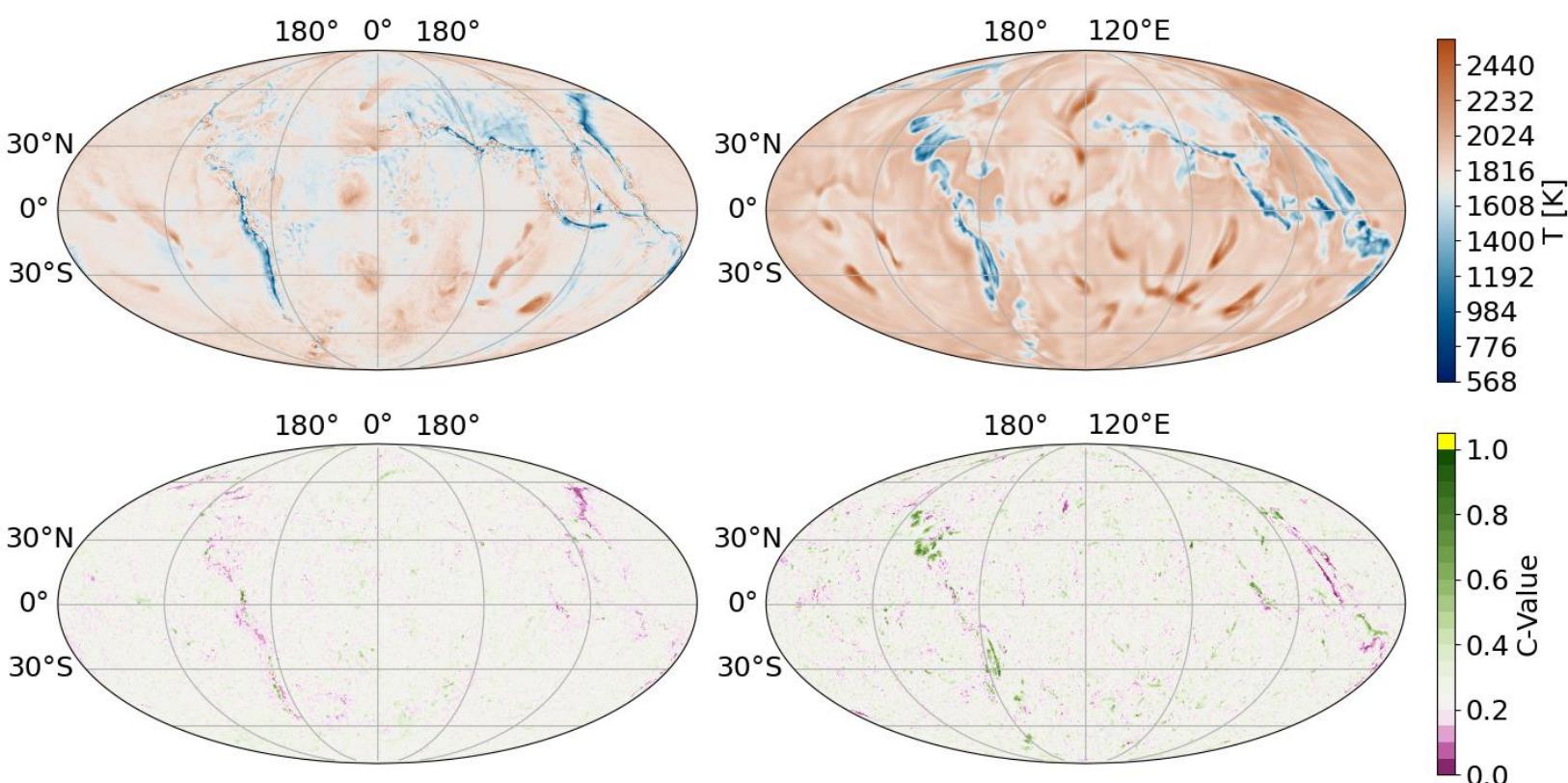


Waszek et al (2021) Bouncepoints

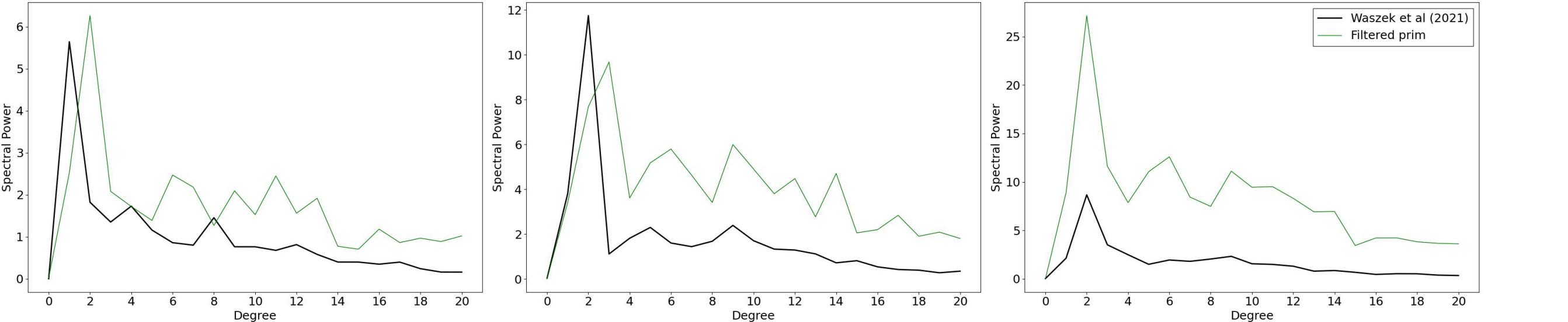
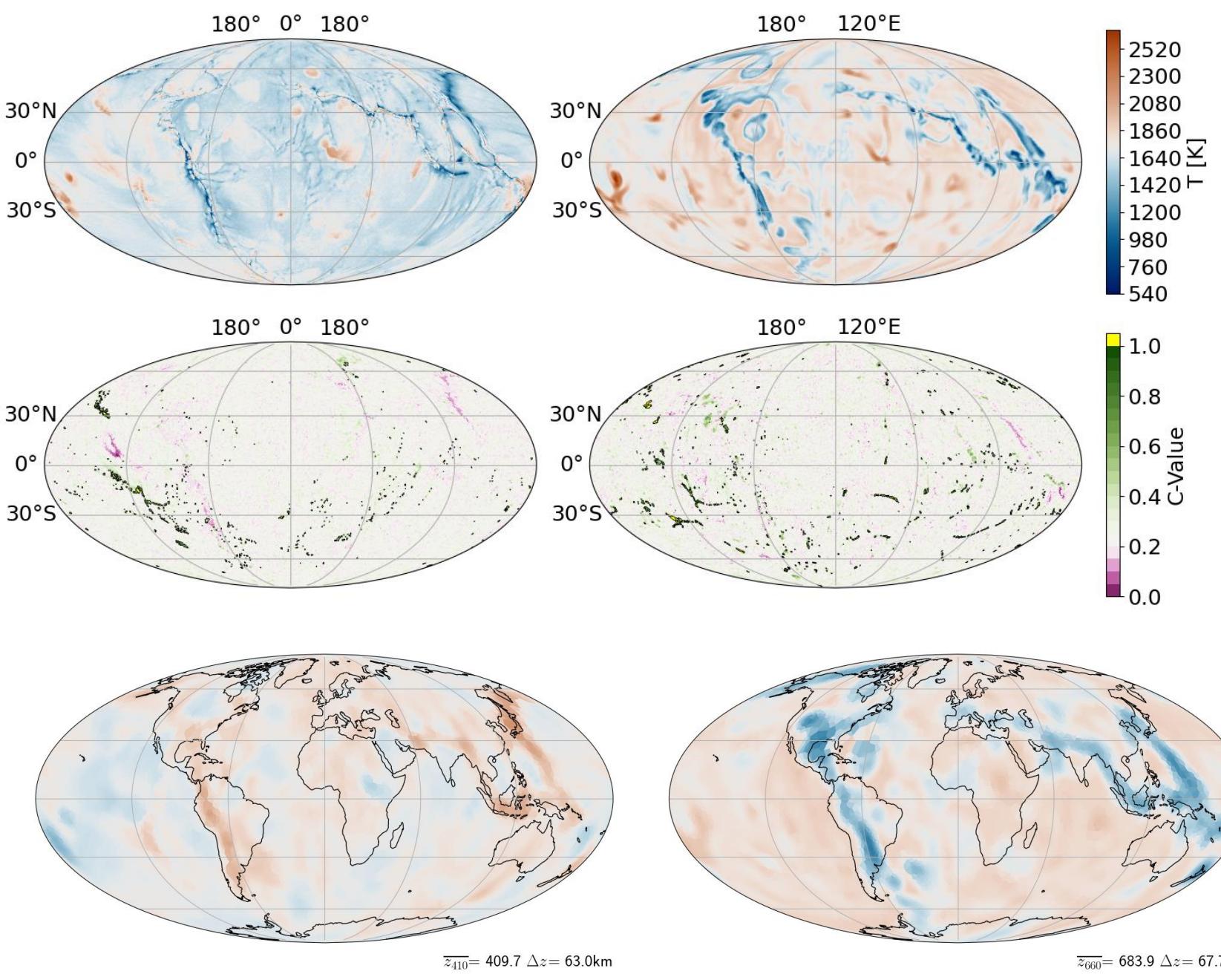
- Bouncepoint
- ▼ Receiver
- ★ Source



Reference Simulation

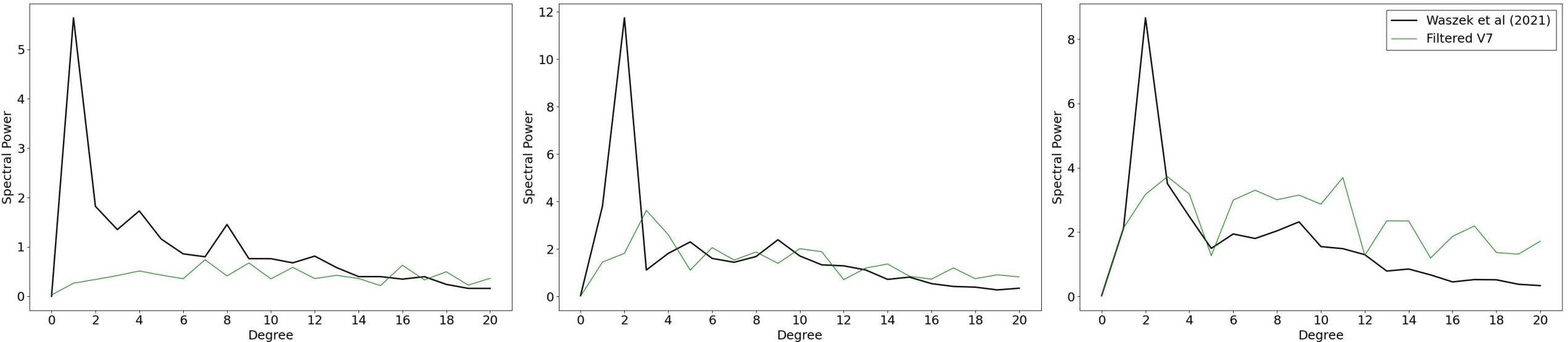
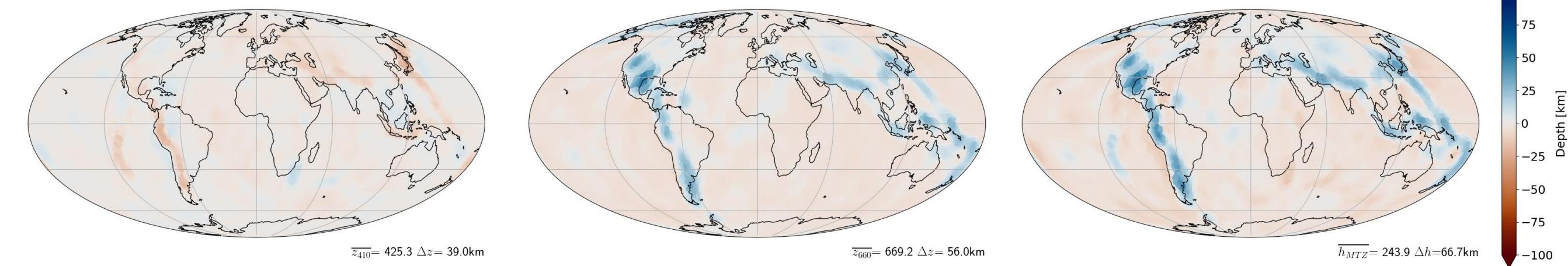
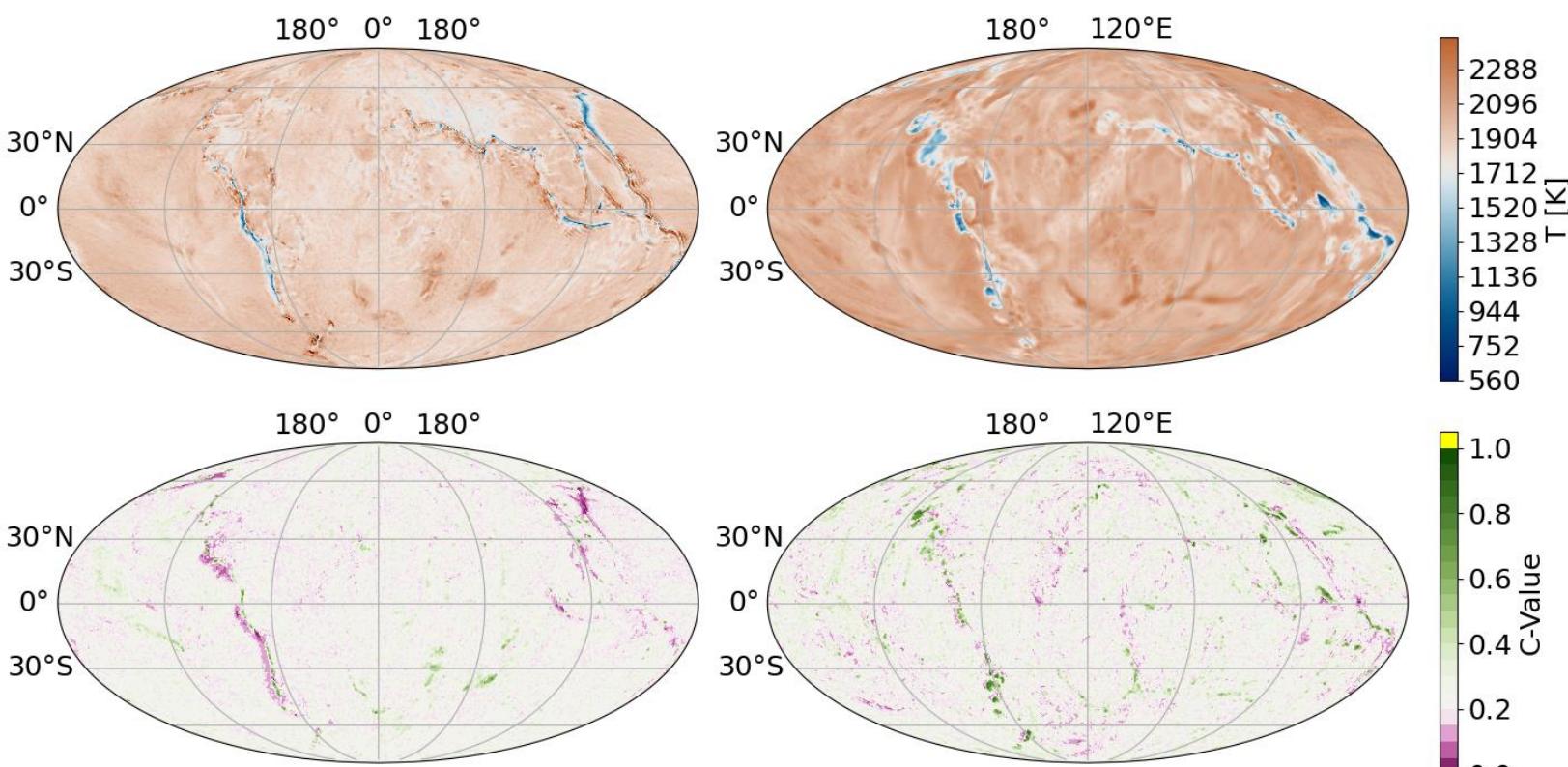


Primordial Simulation



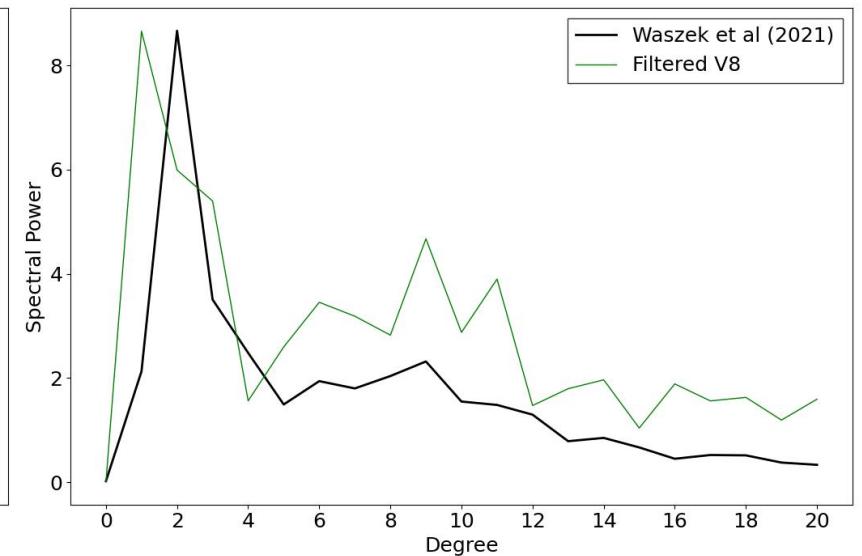
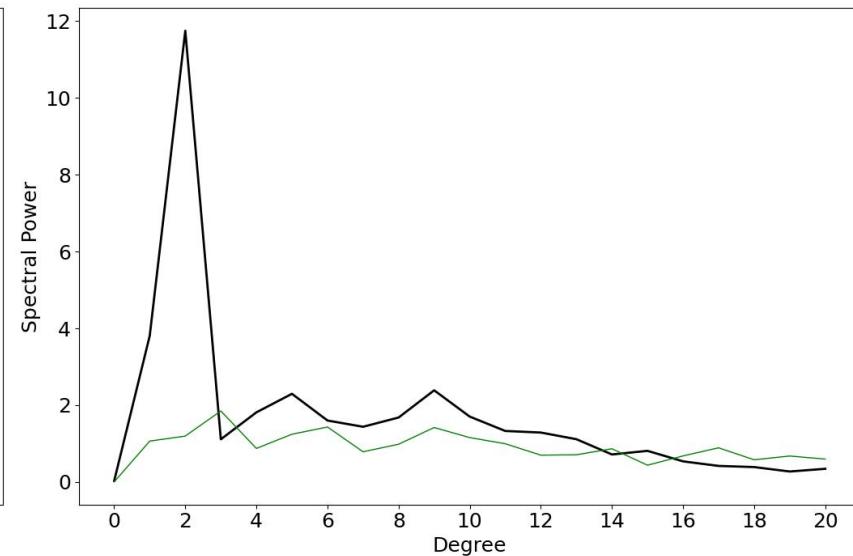
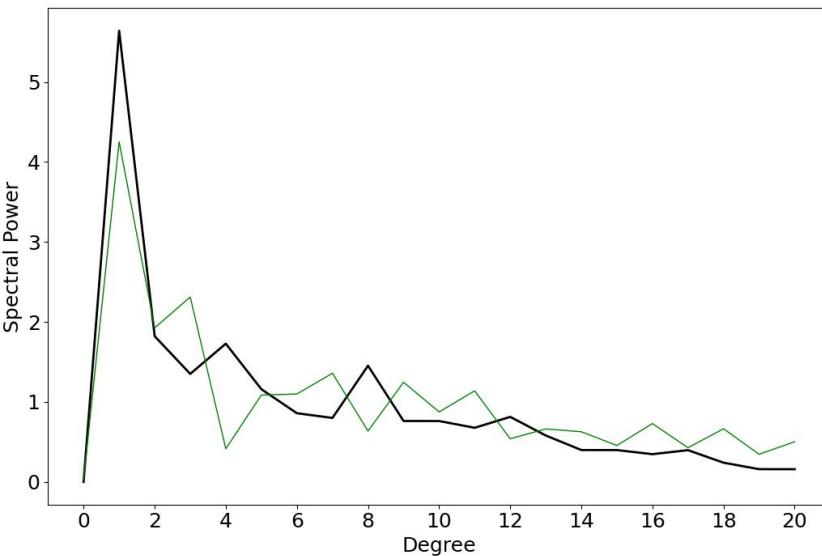
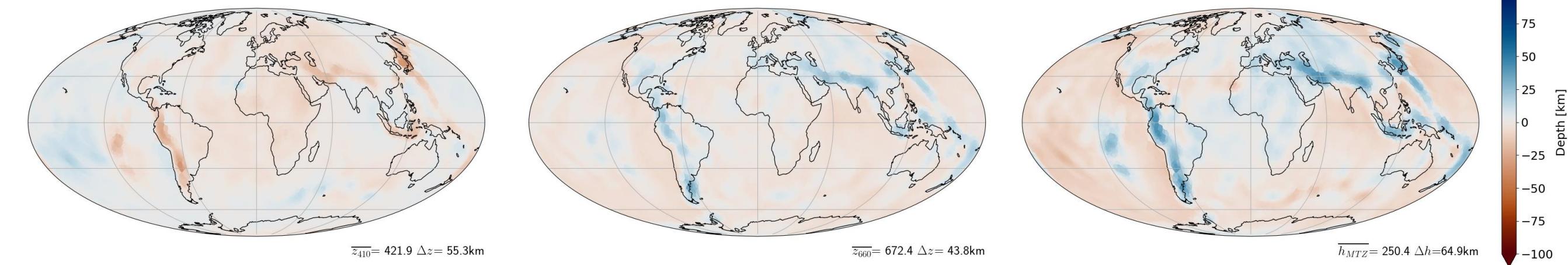
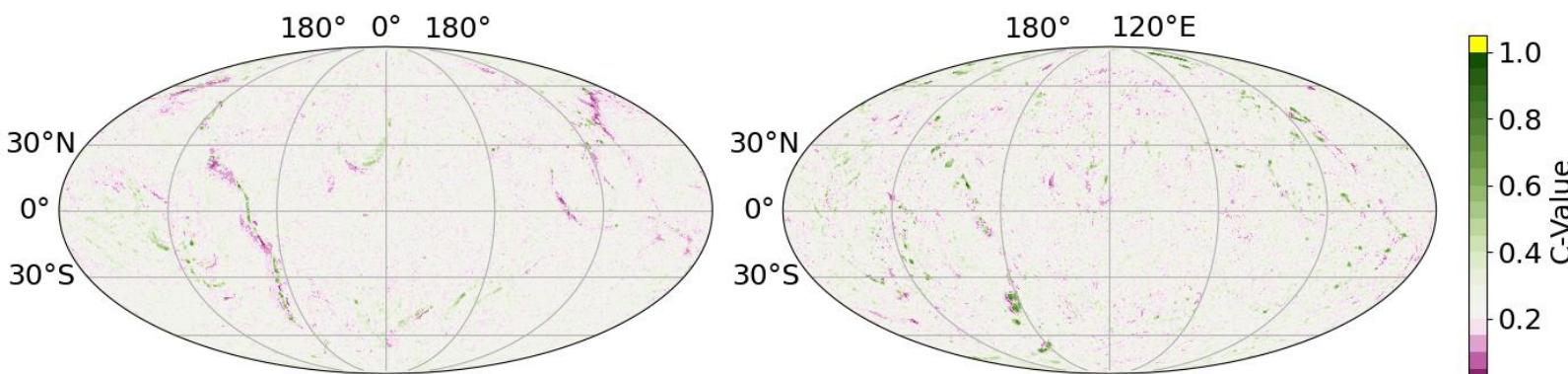
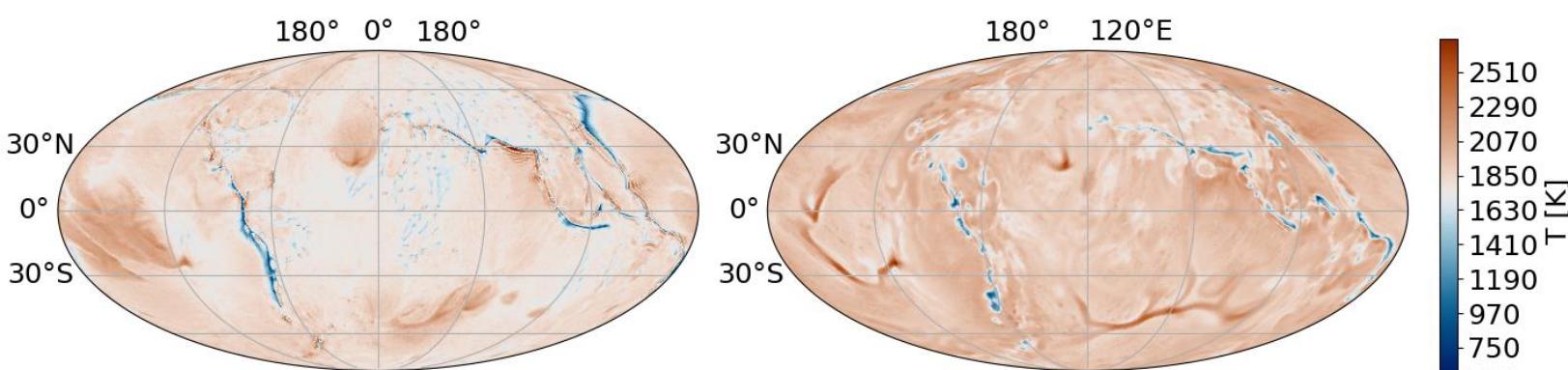
V7

Simulation

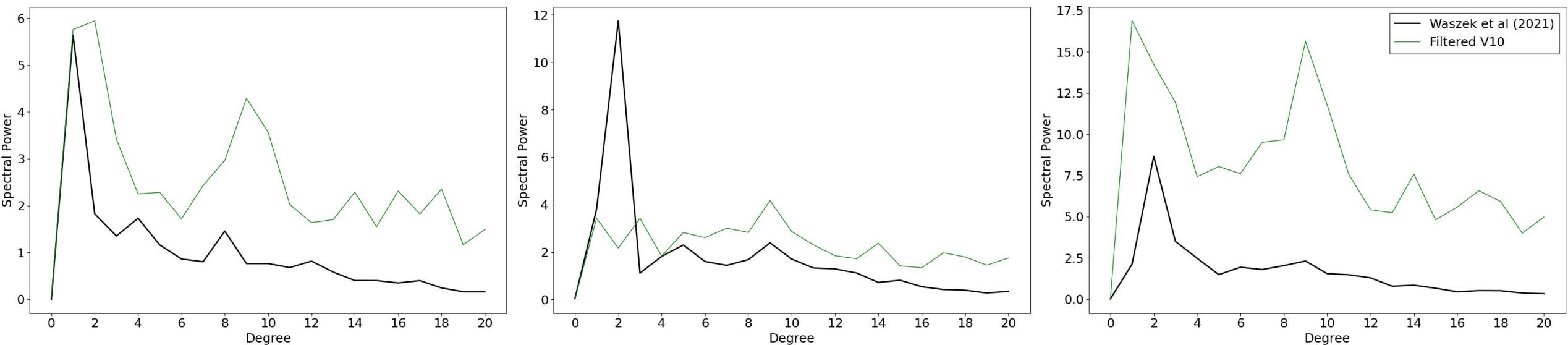
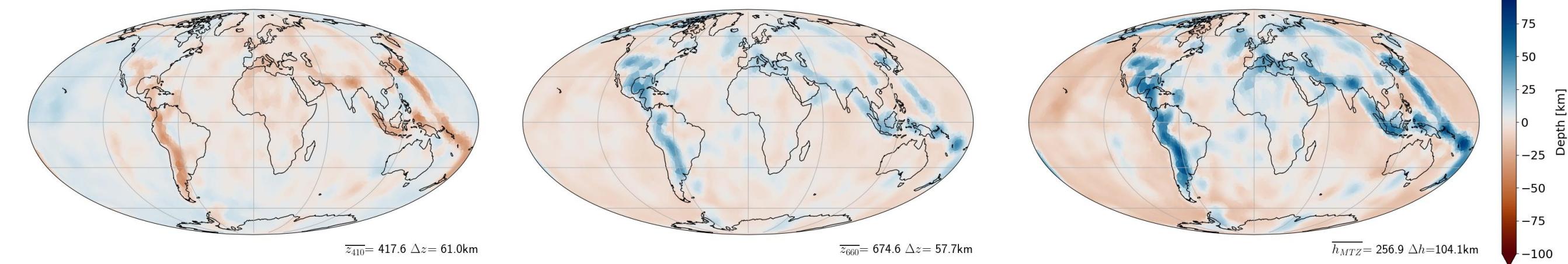
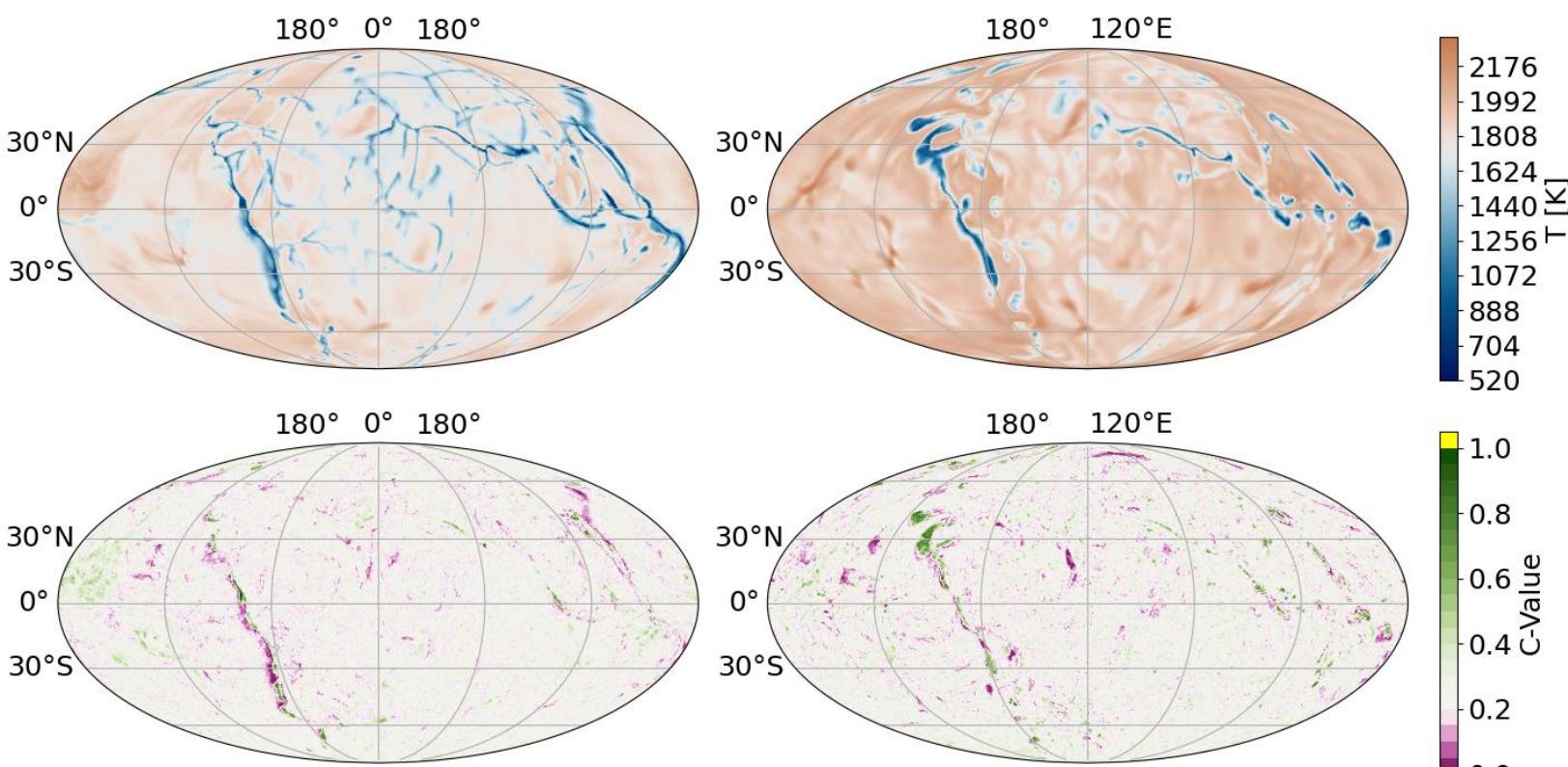


V8

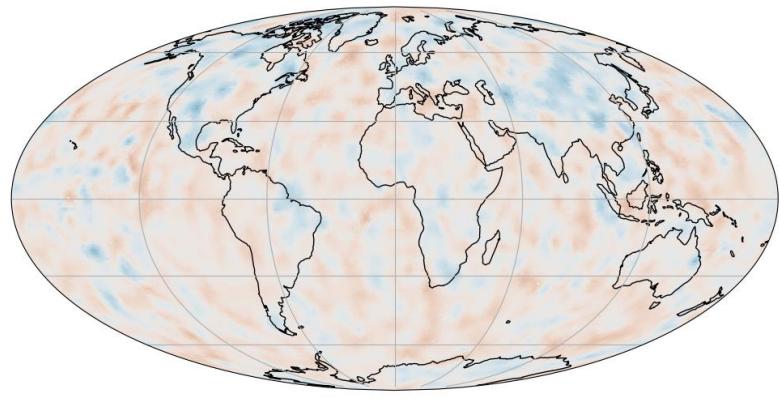
Simulation



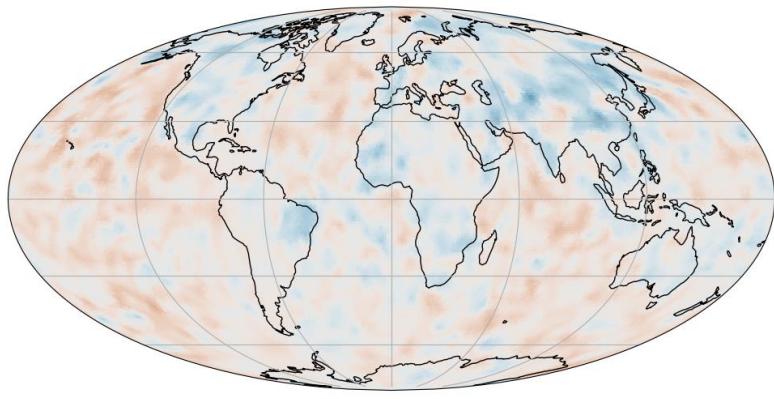
V10 Simulation



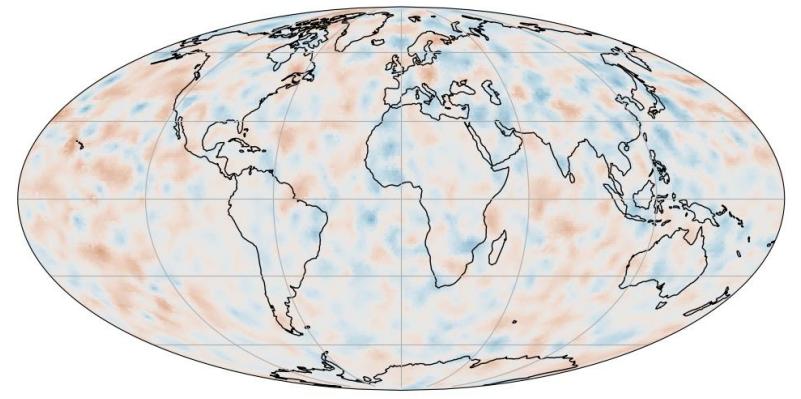
What if we compare to other MTZ topos?



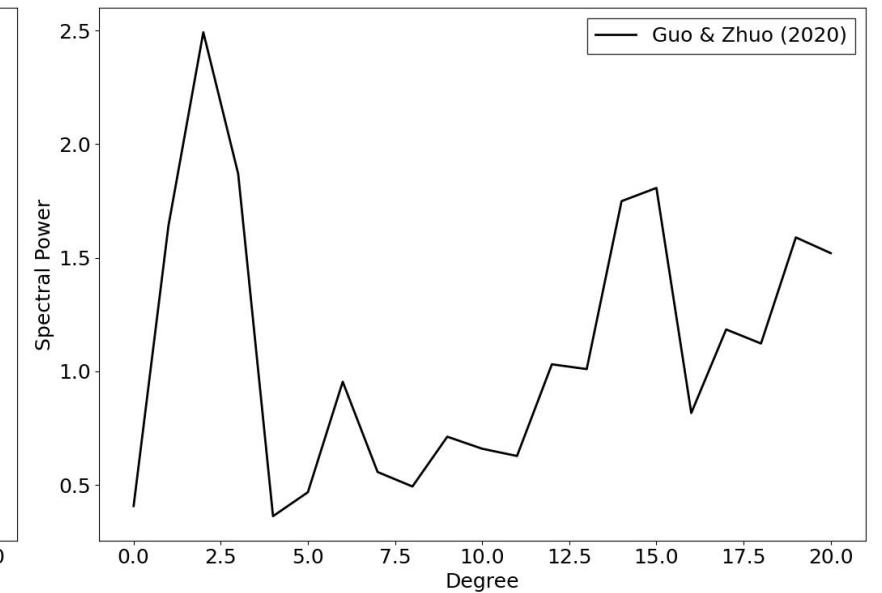
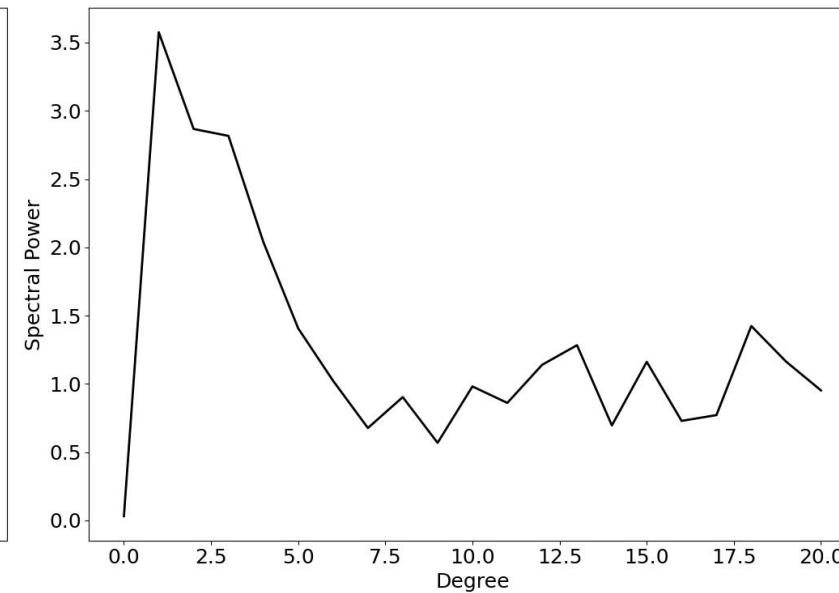
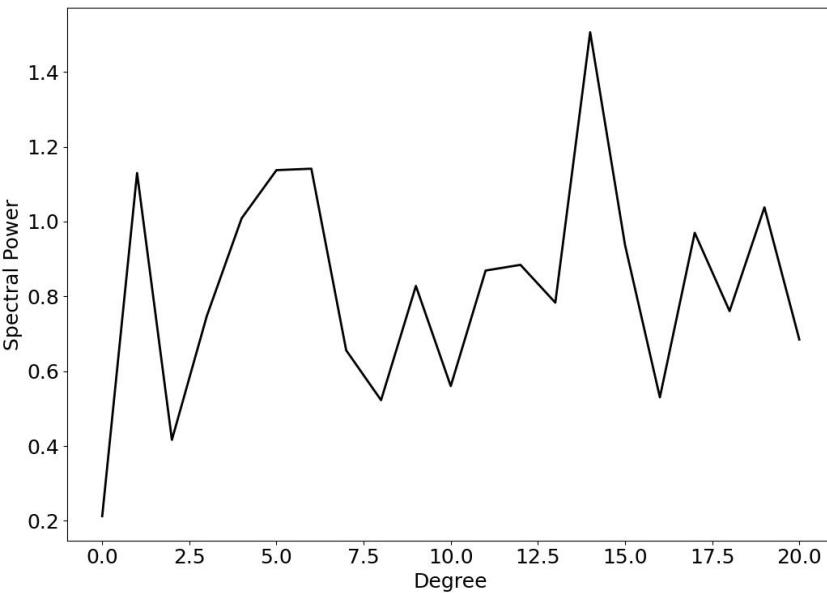
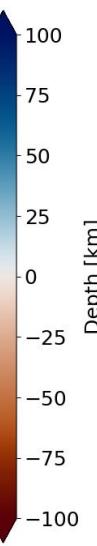
$\bar{z}_{410} = 411.6 \Delta z = 37.5 \text{ km}$



$\bar{z}_{660} = 660.4 \Delta z = 43.3 \text{ km}$

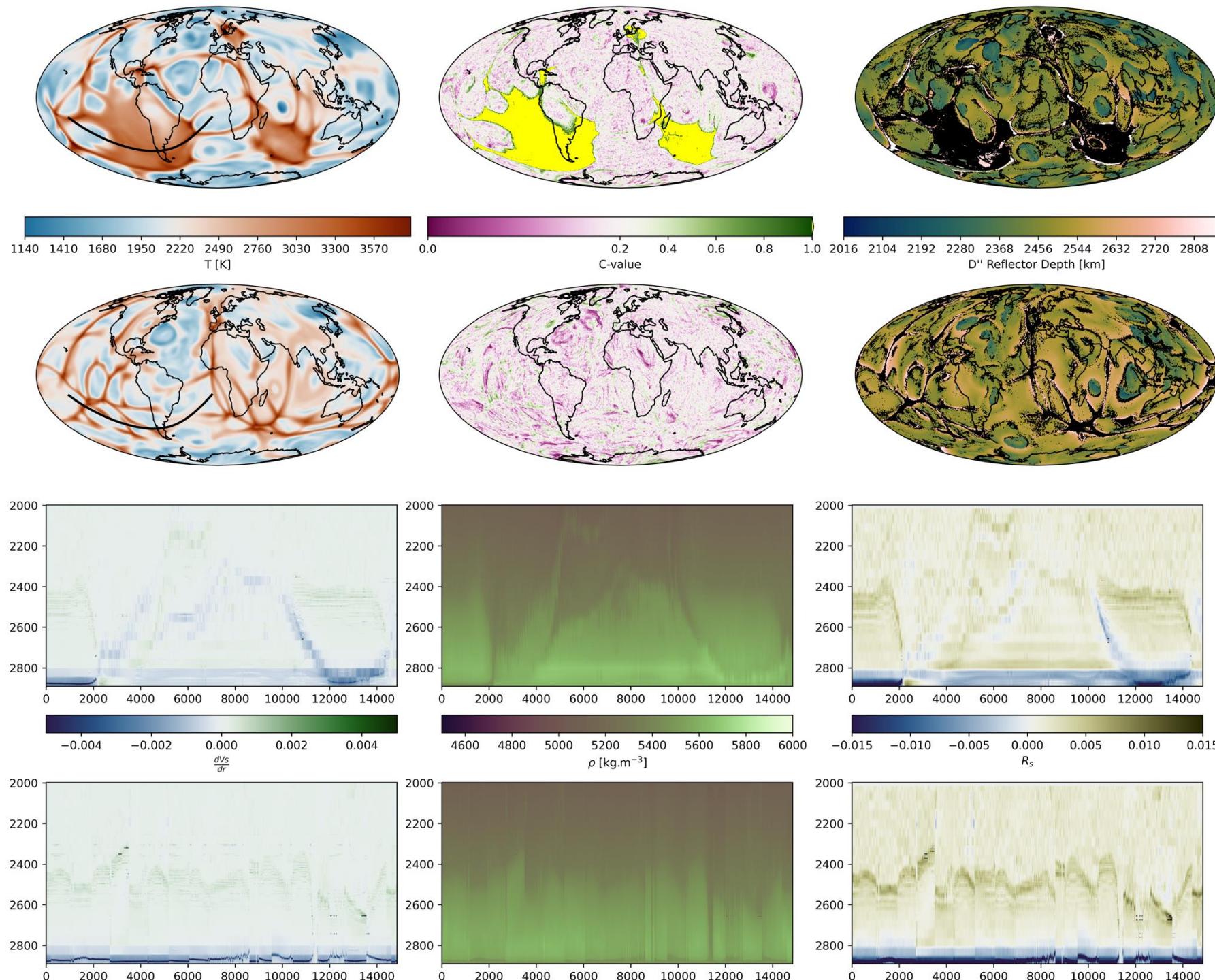


$\bar{h}_{MTZ} = 248.8 \Delta h = 44.5 \text{ km}$



— Guo & Zhuo (2020)

D'' using ceb tables



D'' using fsp tables

