Supplementary figures

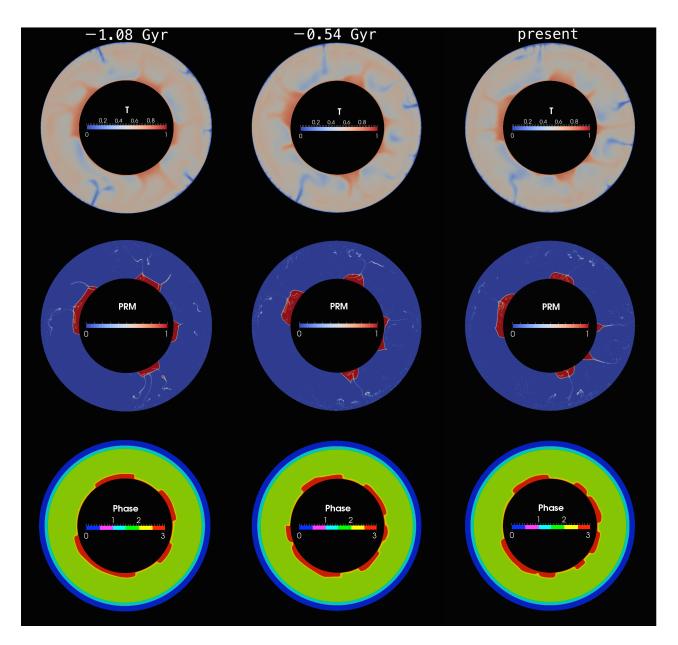


Figure S1. Time evolution of the case with T_{CMB} =3350 K in Figure 1. From left to right: -1.08 Gyr, -0.54 Gyr, present. From top to bottom: temperature, composition, and phase fields.

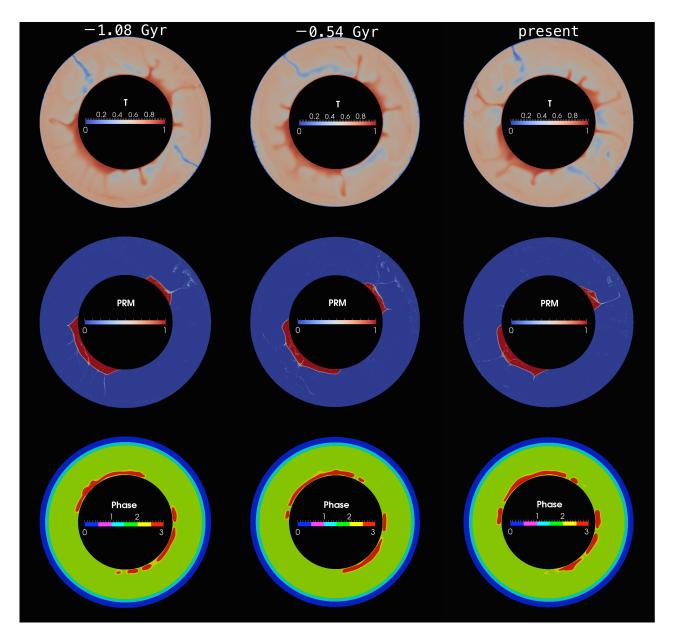


Figure S2. Time evolution of the case with T_{CMB} =3750 K in Figure 1. From left to right: -1.08 Gyr, -0.54 Gyr, present. From top to bottom: temperature, composition, and phase fields.

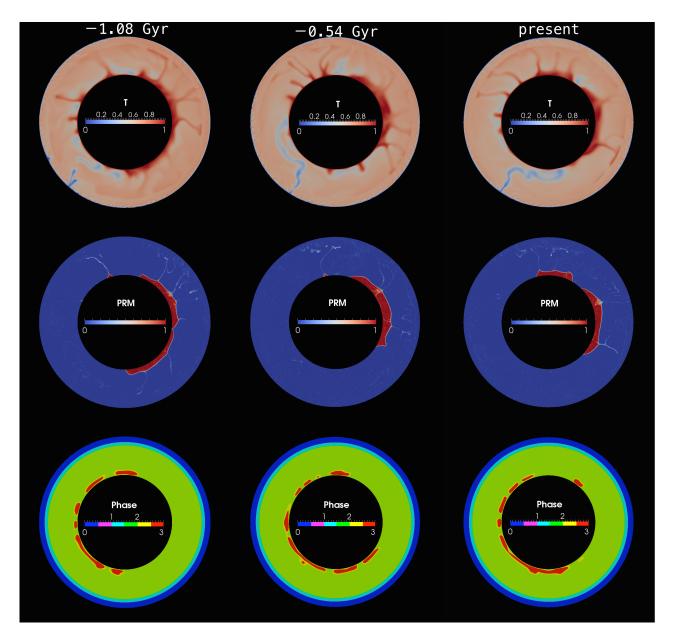


Figure S3. Time evolution of the case with T_{CMB} =4200 K in Figure 1. From left to right: -1.08 Gyr, -0.54 Gyr, present. From top to bottom: temperature, composition, and phase fields.