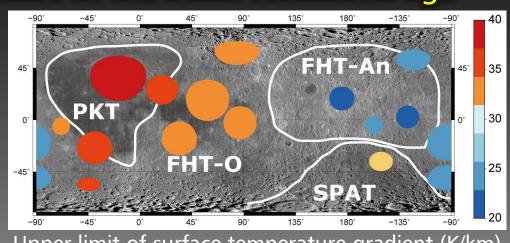
Viscoelastic deformation of major lunar impact basins: Implications for concentrations of heat-producing elements in the lunar crust

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- We calculate both the thermal evolution and long-term viscoelastic deformation of major lunar impact basins under a wide variety of parameter conditions
- We estimate crustal structure around impact basins at the basin formation age
- Based on non-negative crustal thickness condition, we constrain the thermal structure at the basin formation age
- Thermal constraints varies widely region by region, suggesting strong heterogeneity in radioactive element concentration



Upper limit of surface temperature gradient (K/km)