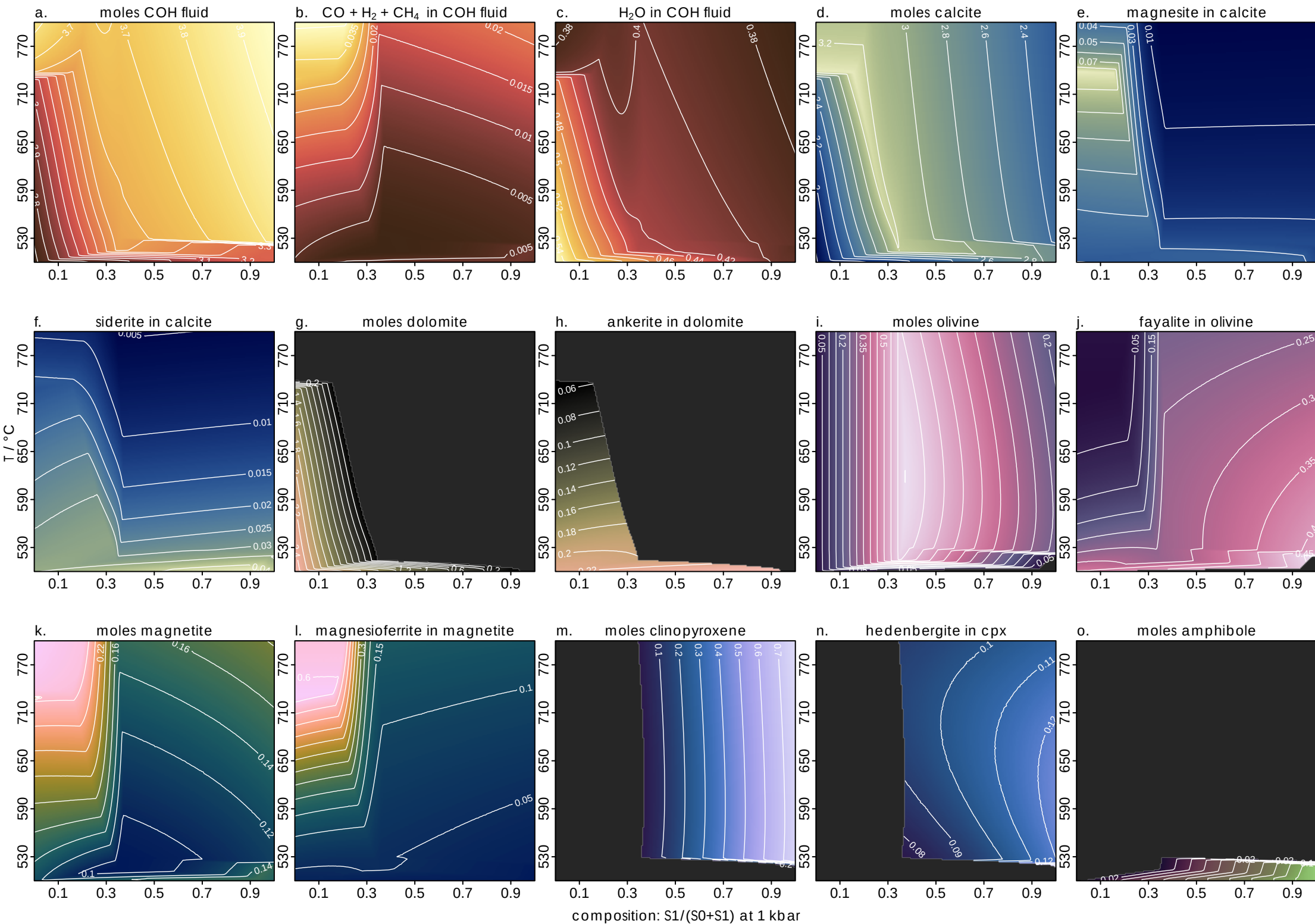
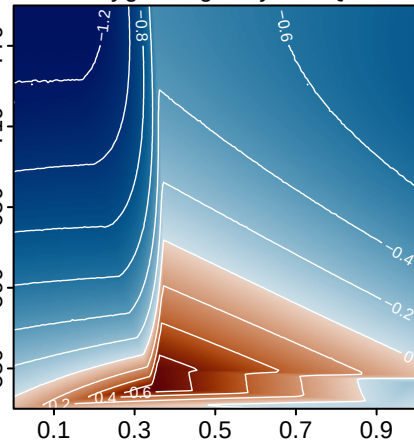


Supplementary Figure 1

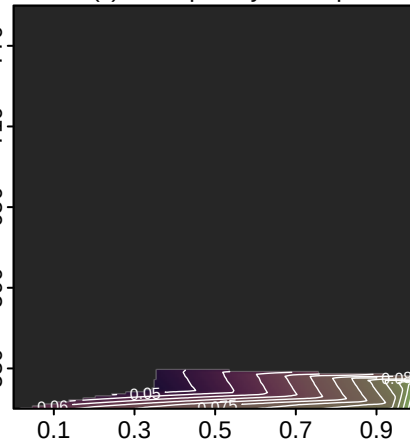
S0 to S1 at 1 kbar, first page



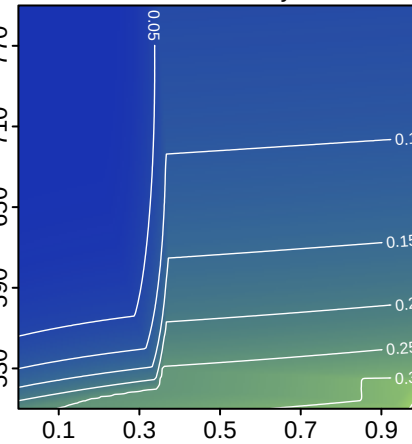
T / °C

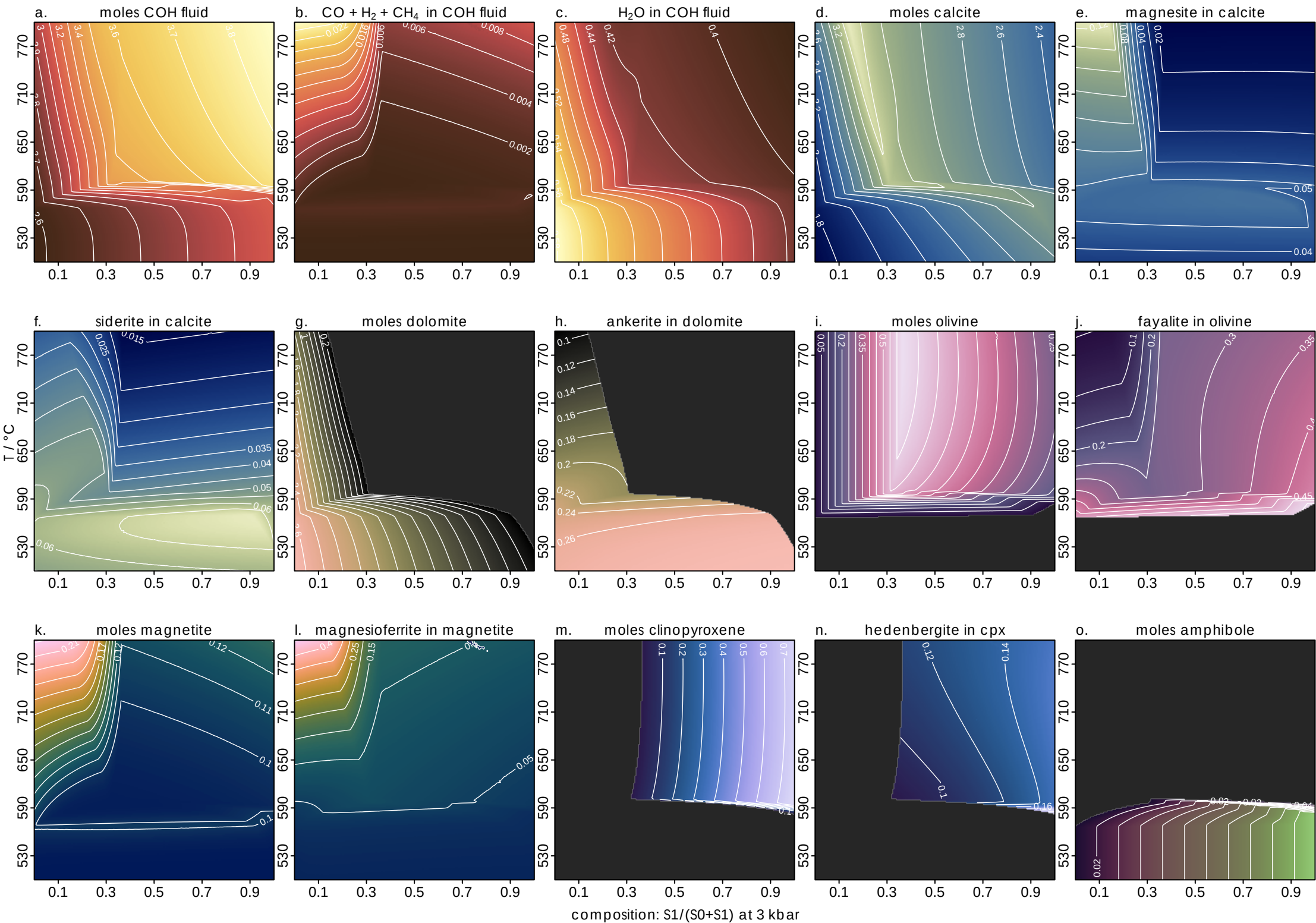
a. oxygen fugacity ΔFMQ 

b. Fe(II) occupancy in amph

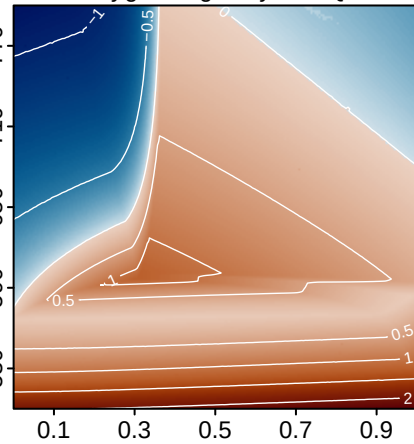


c. silica activity

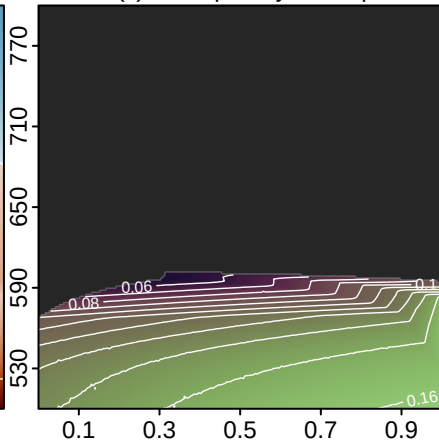




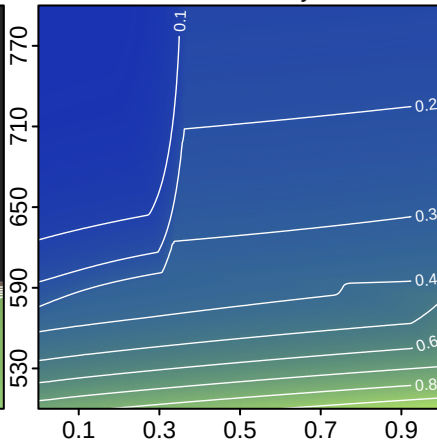
T / °C

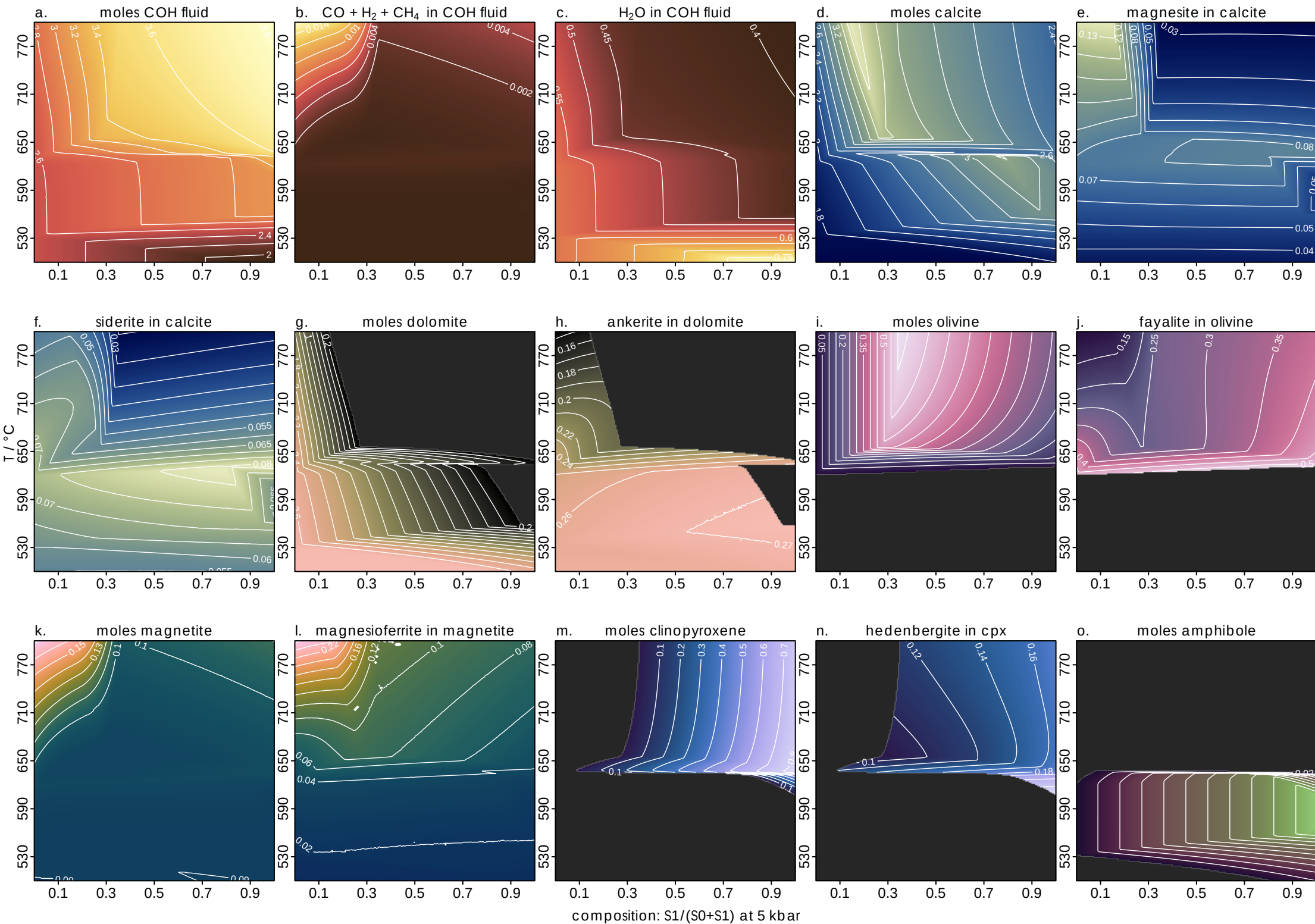
a. oxygen fugacity ΔFMQ 

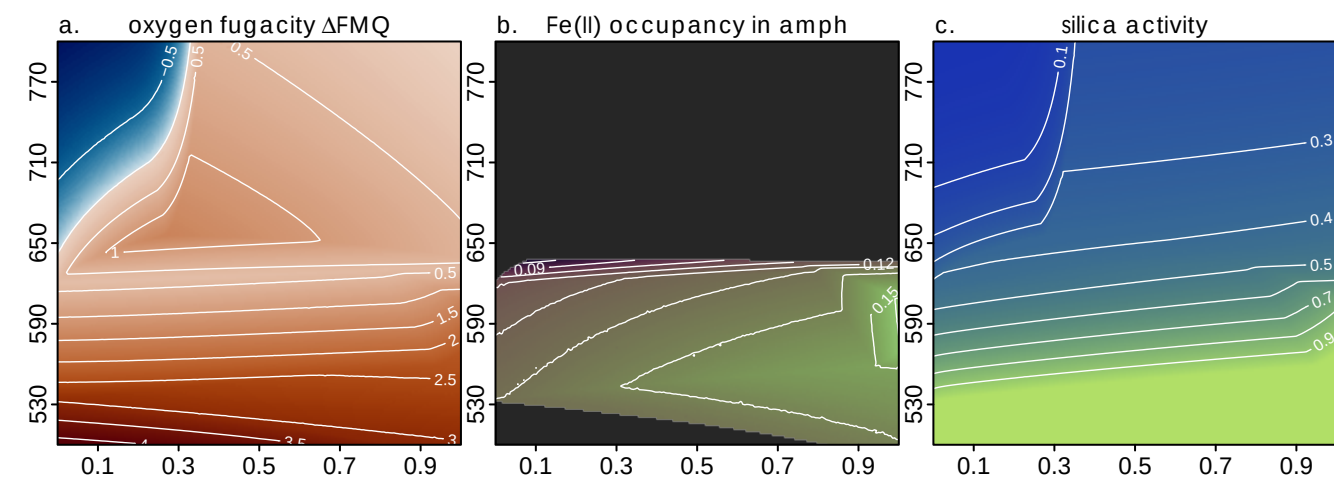
b. Fe(II) occupancy in amph



c. silica activity





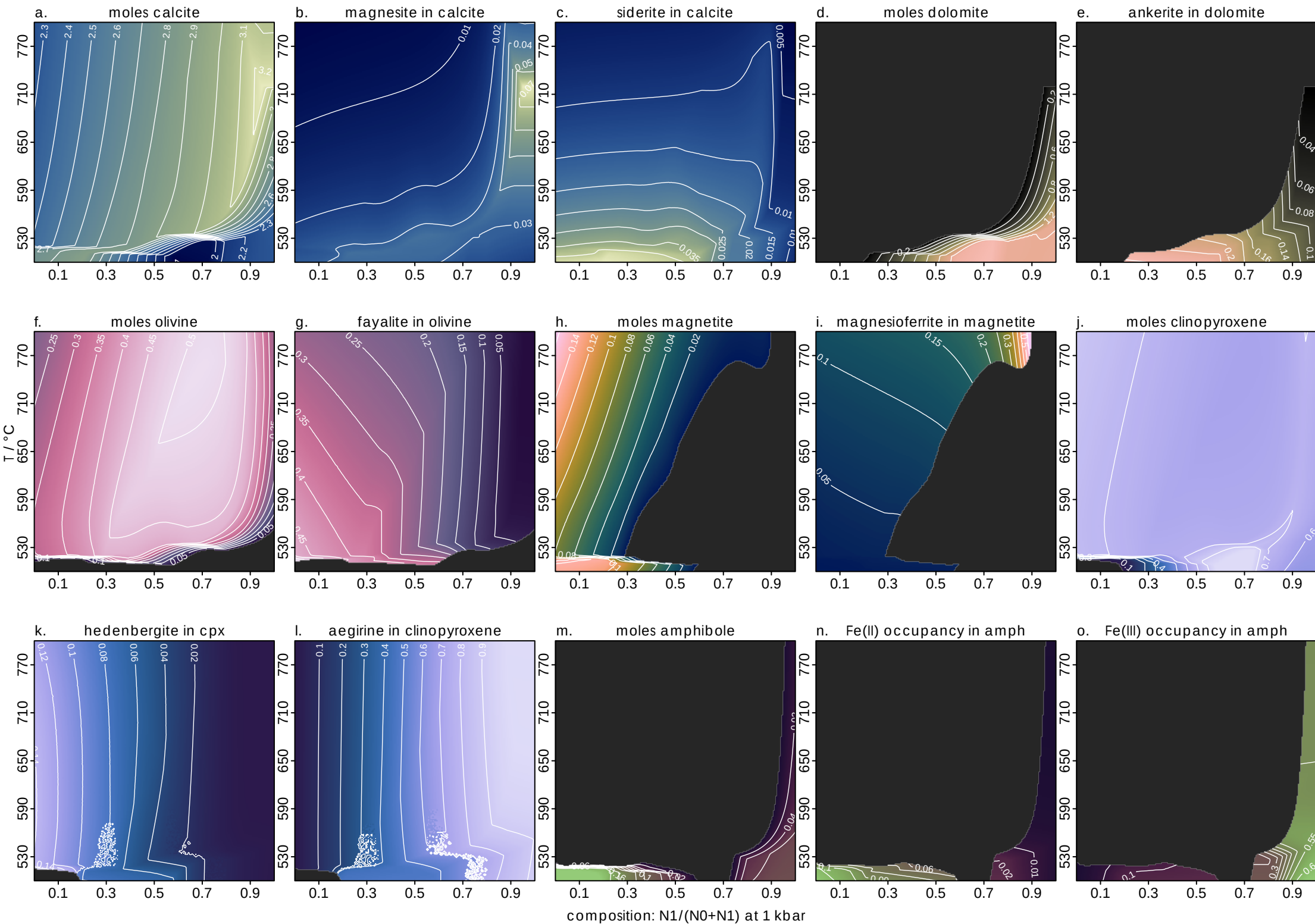


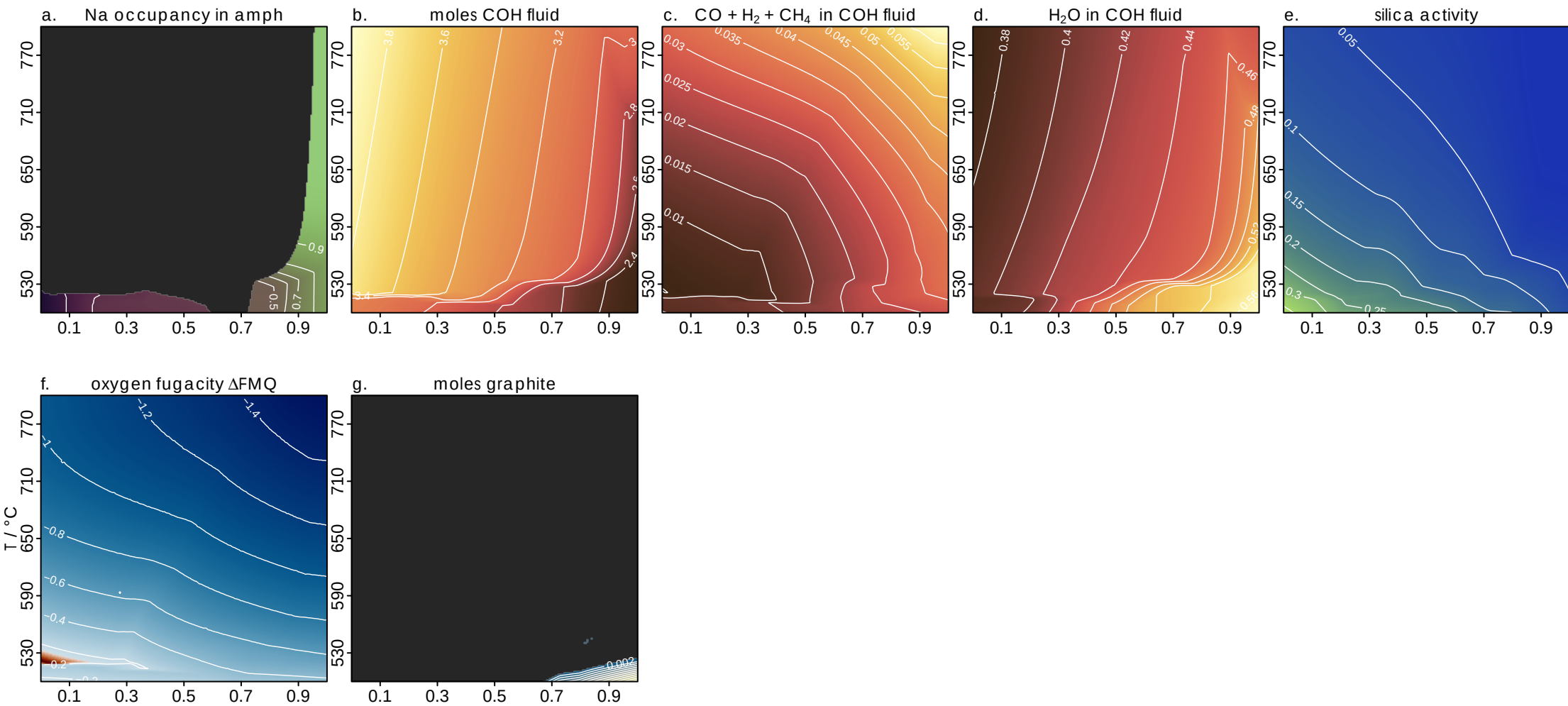
T / °C

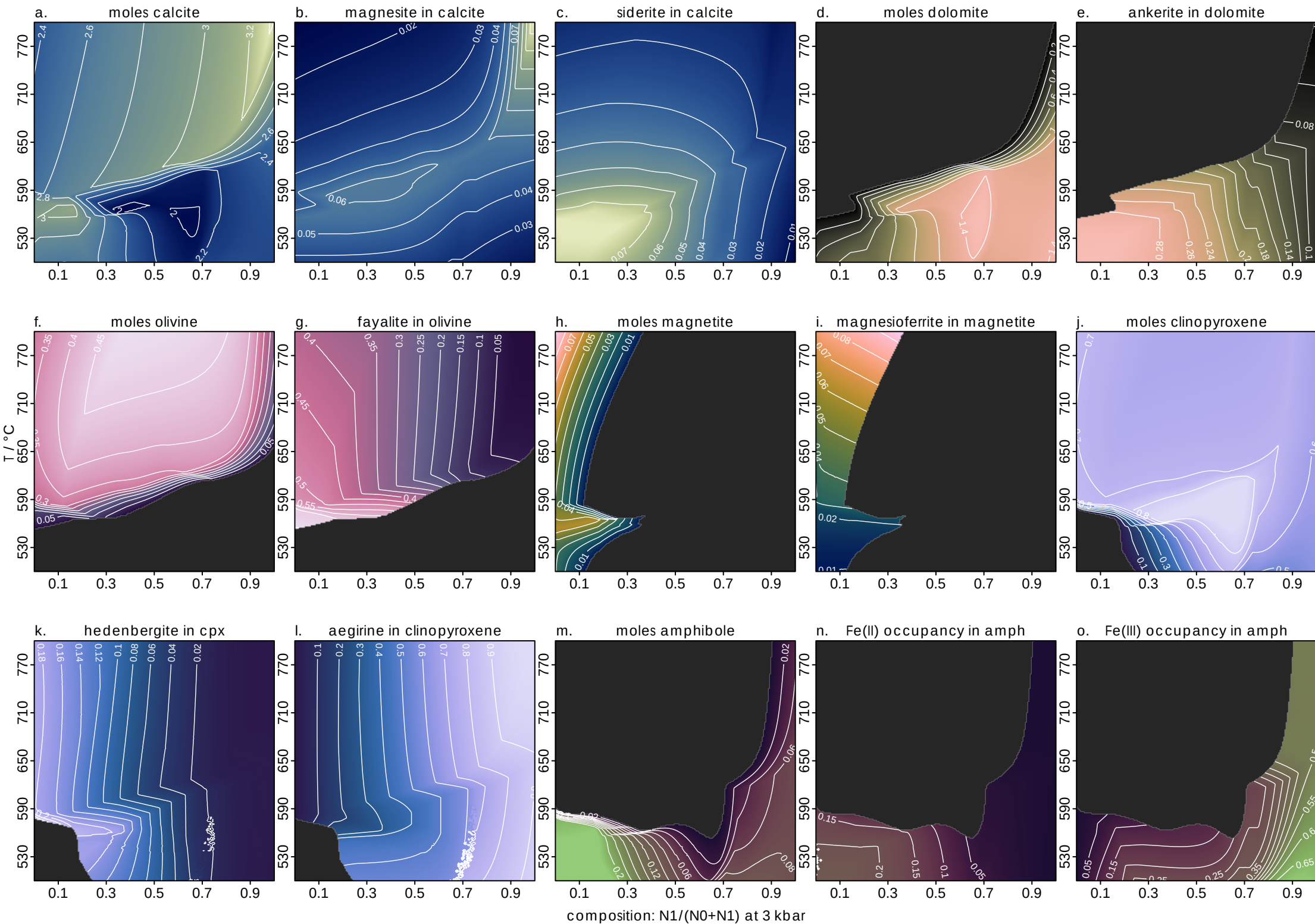
composition: S1/(S0+S1) at 5 kbar

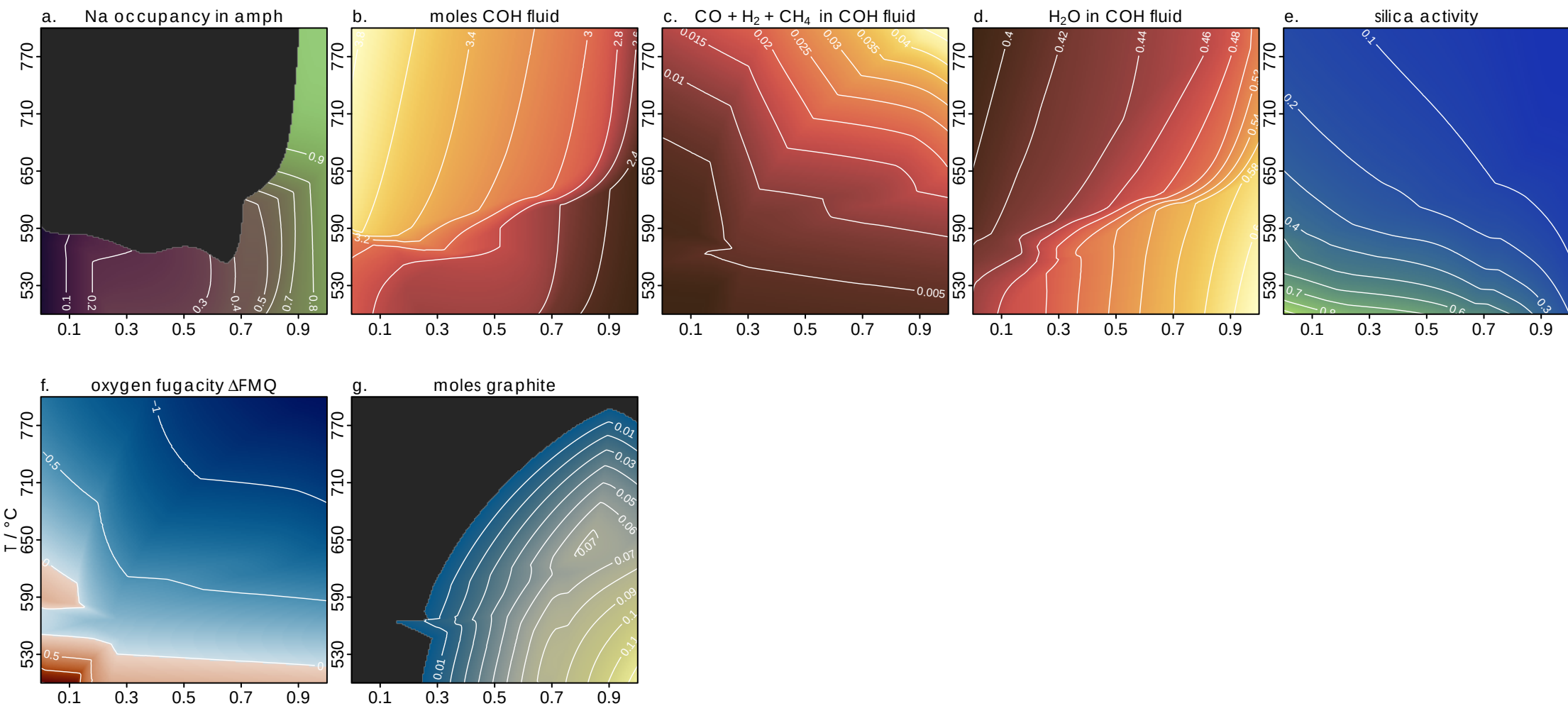
Supplementary Figure 7

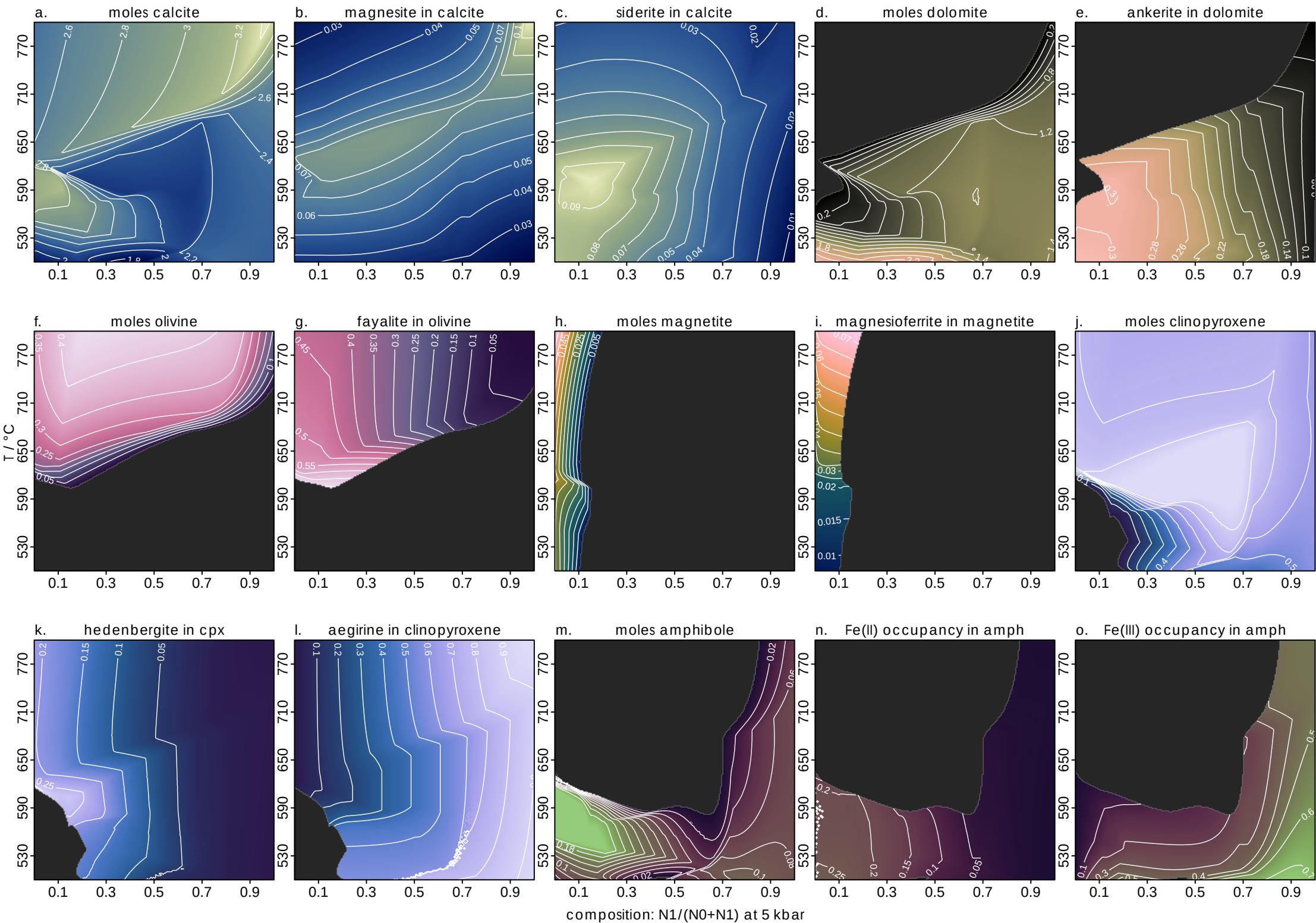
N0 to N1 at 1 kbar, first page

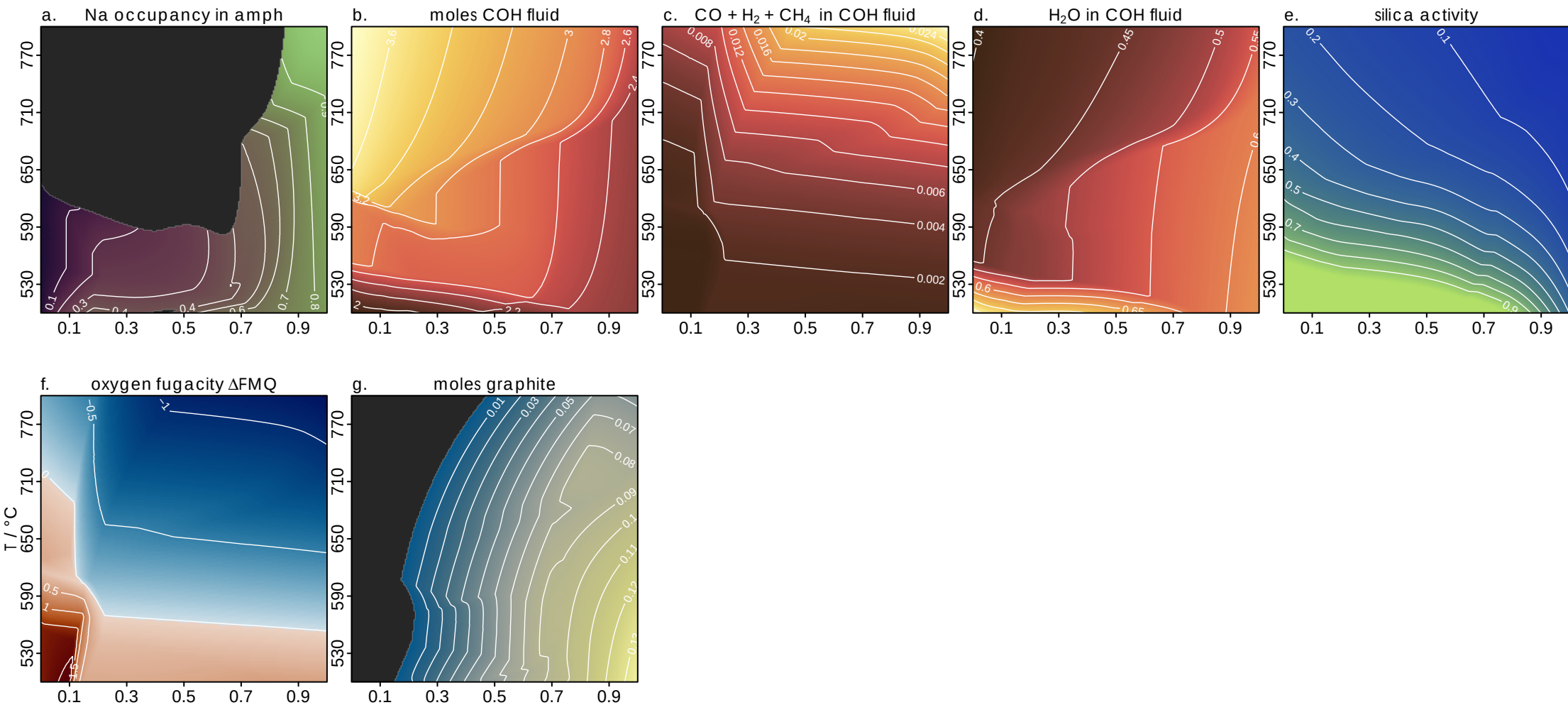






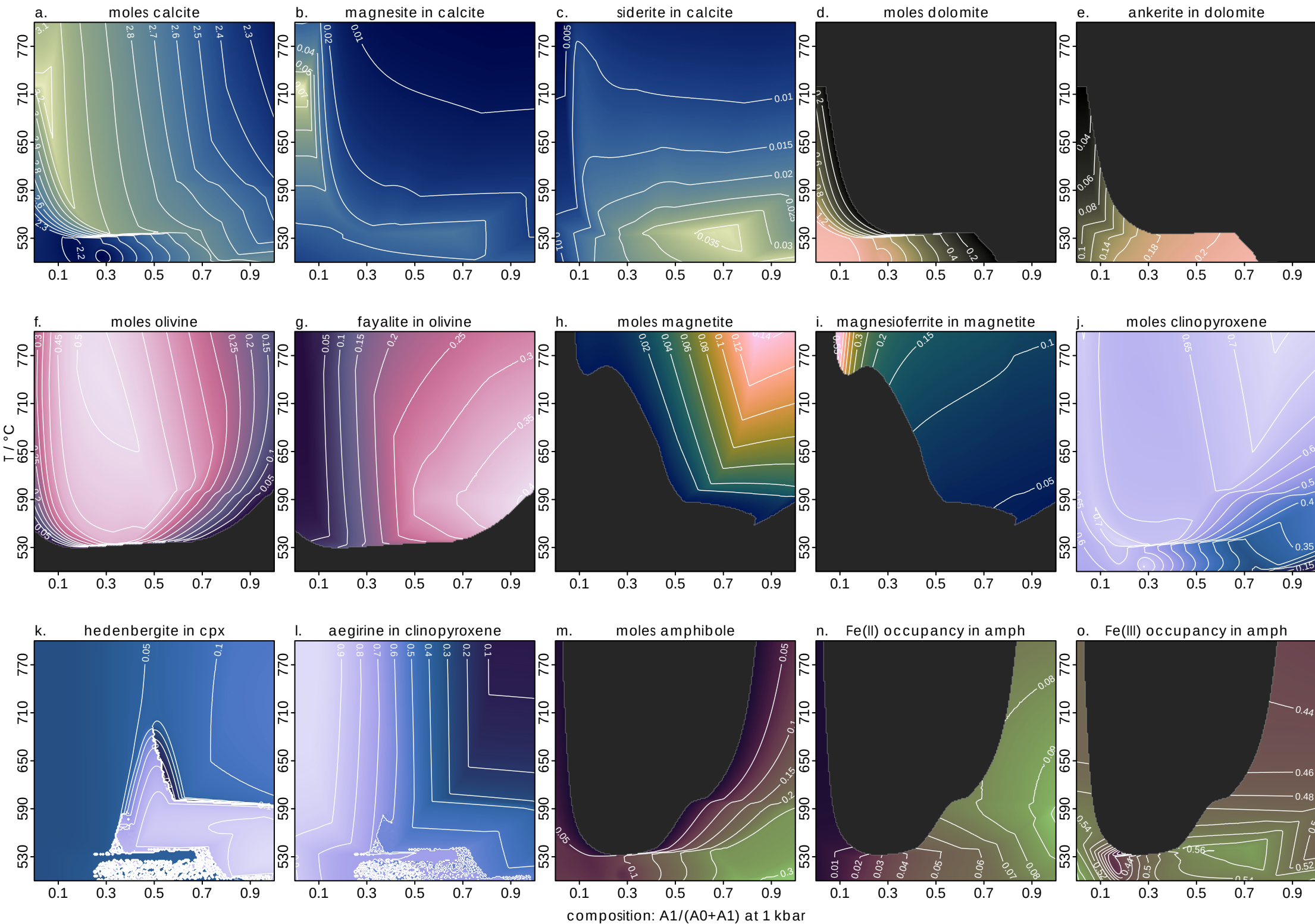


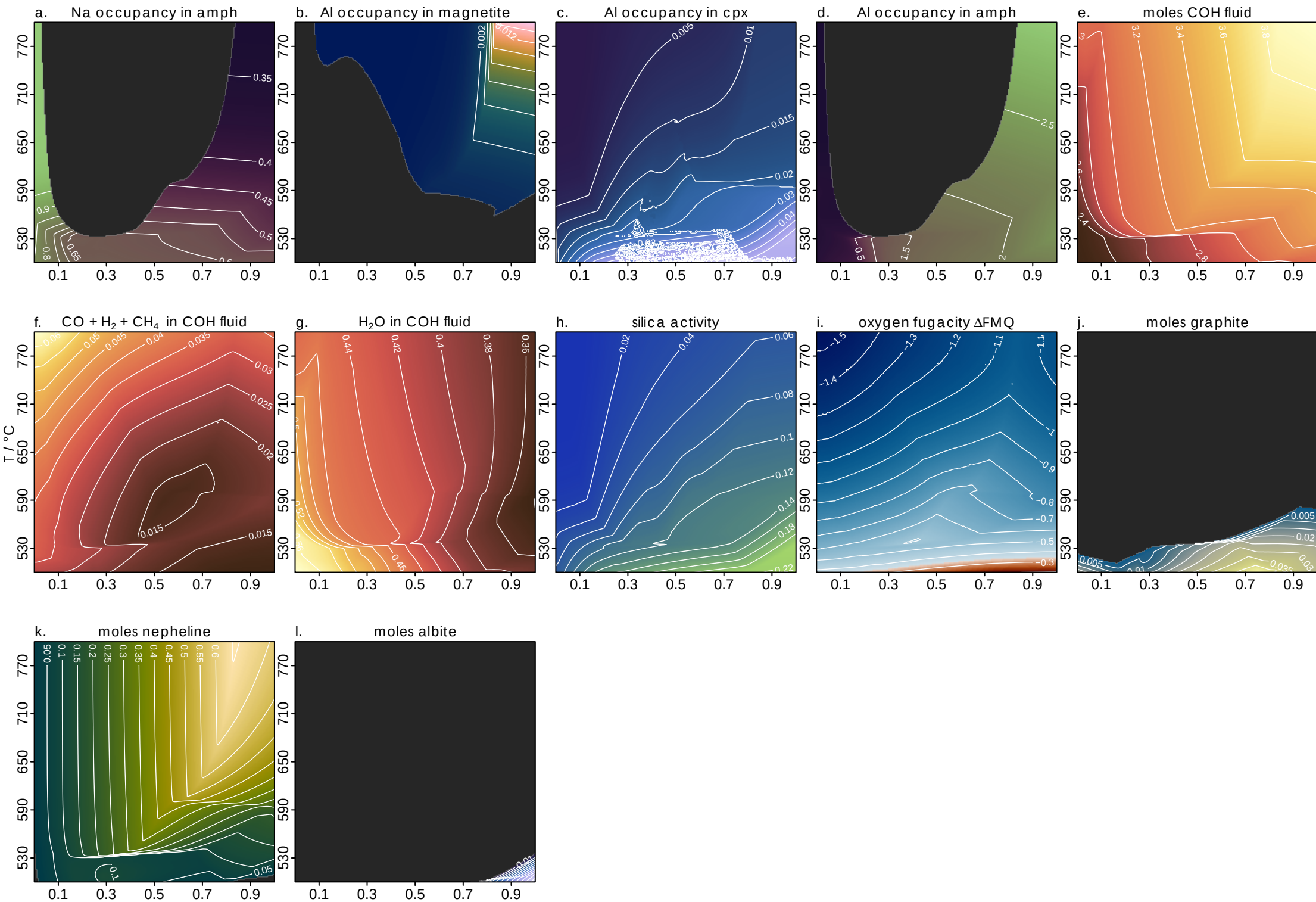




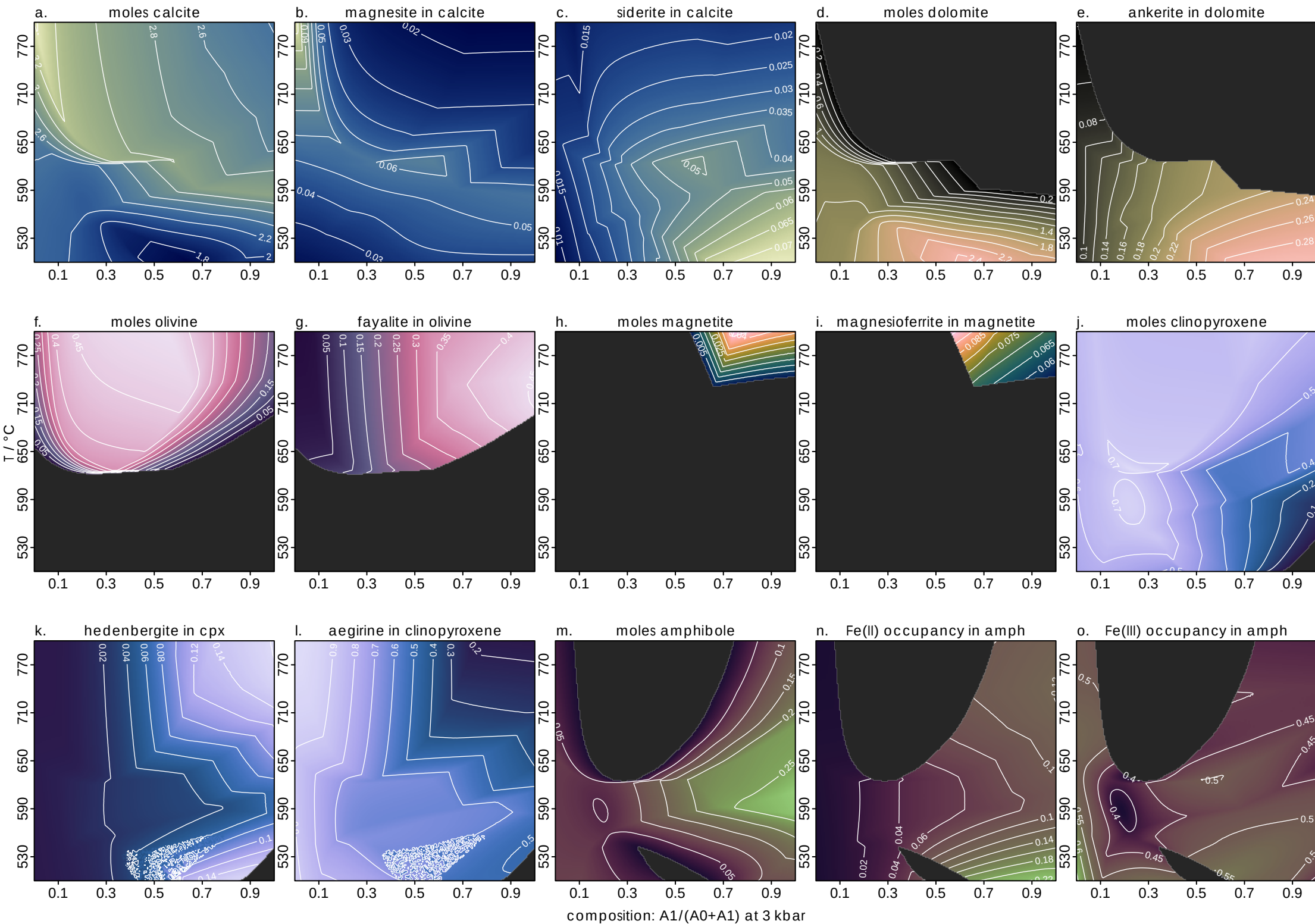
Supplementary Figure 13

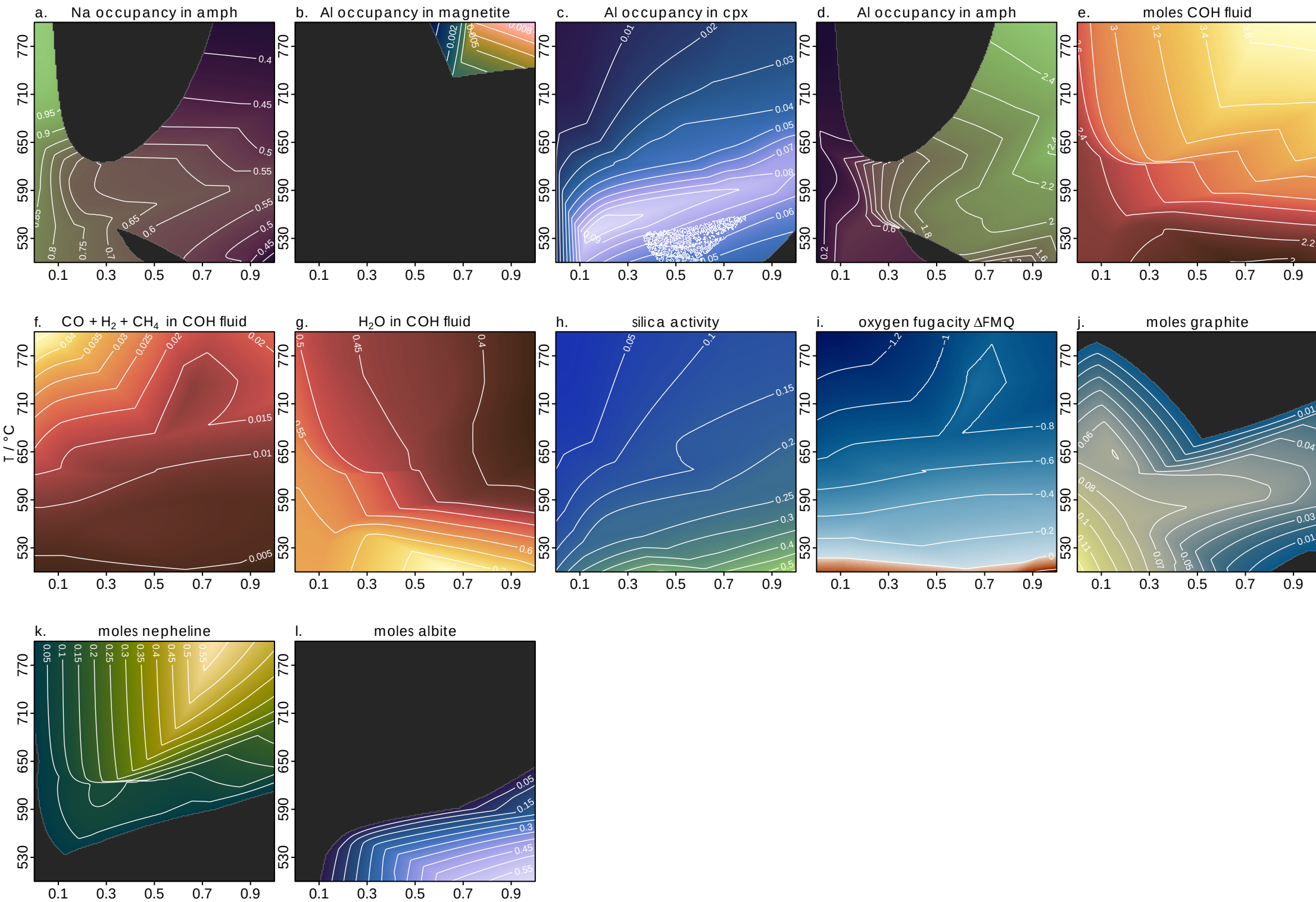
A0 to A1 at 1 kbar, first page





composition: A1/(A0+A1) at 1 kbar





composition: A1/(A0+A1) at 3 kbar

