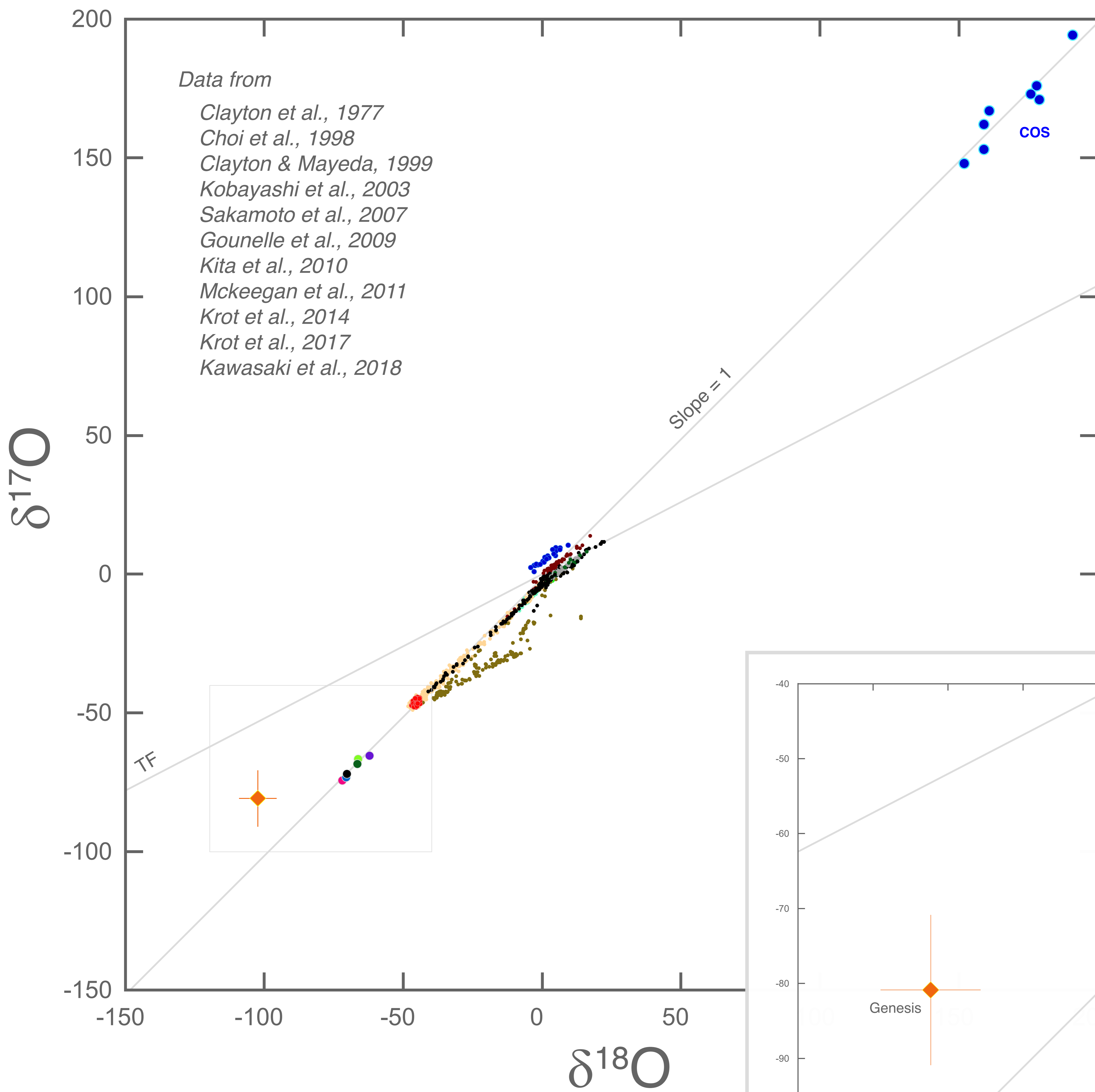


# 隕石中の酸化物の酸素同位体組成

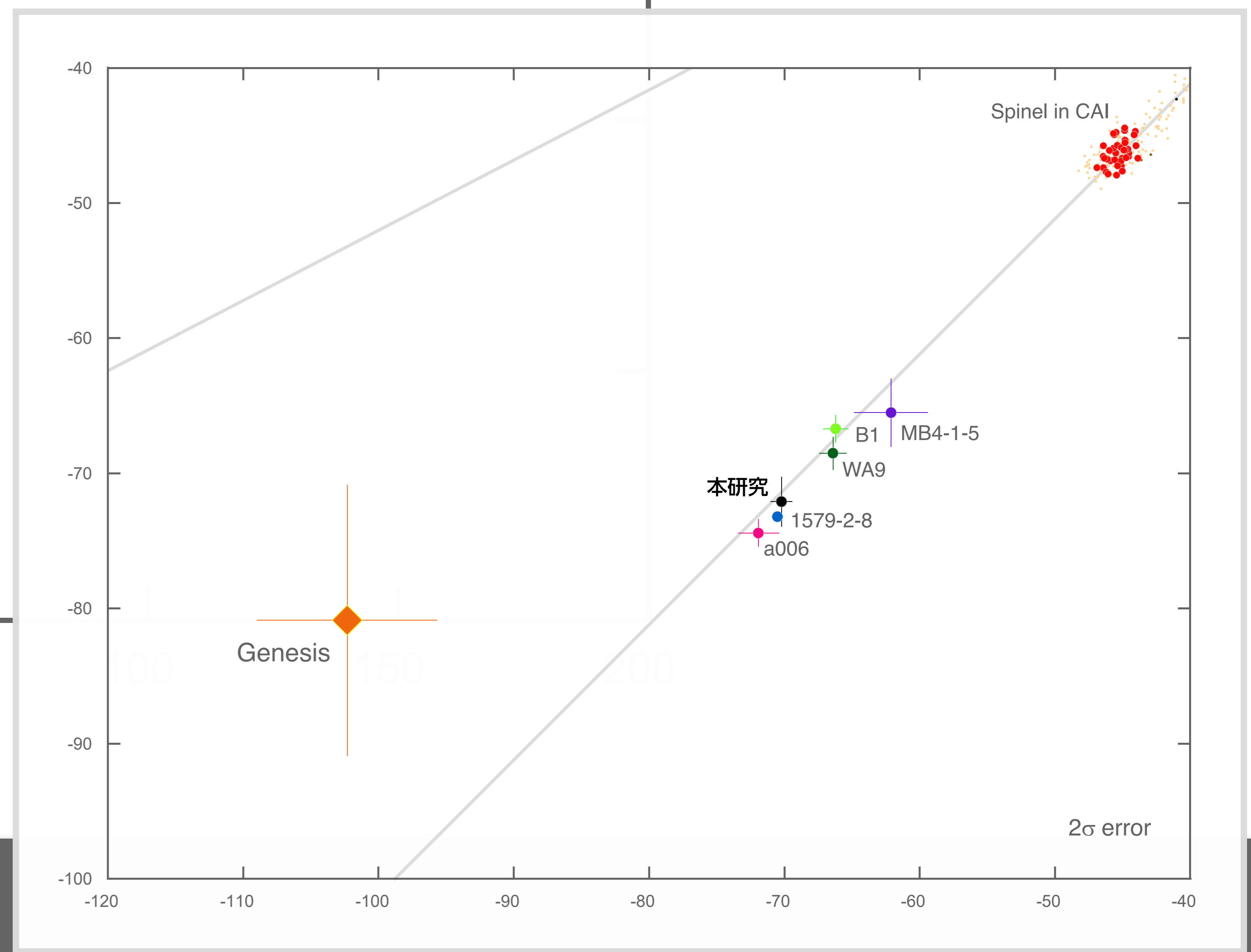
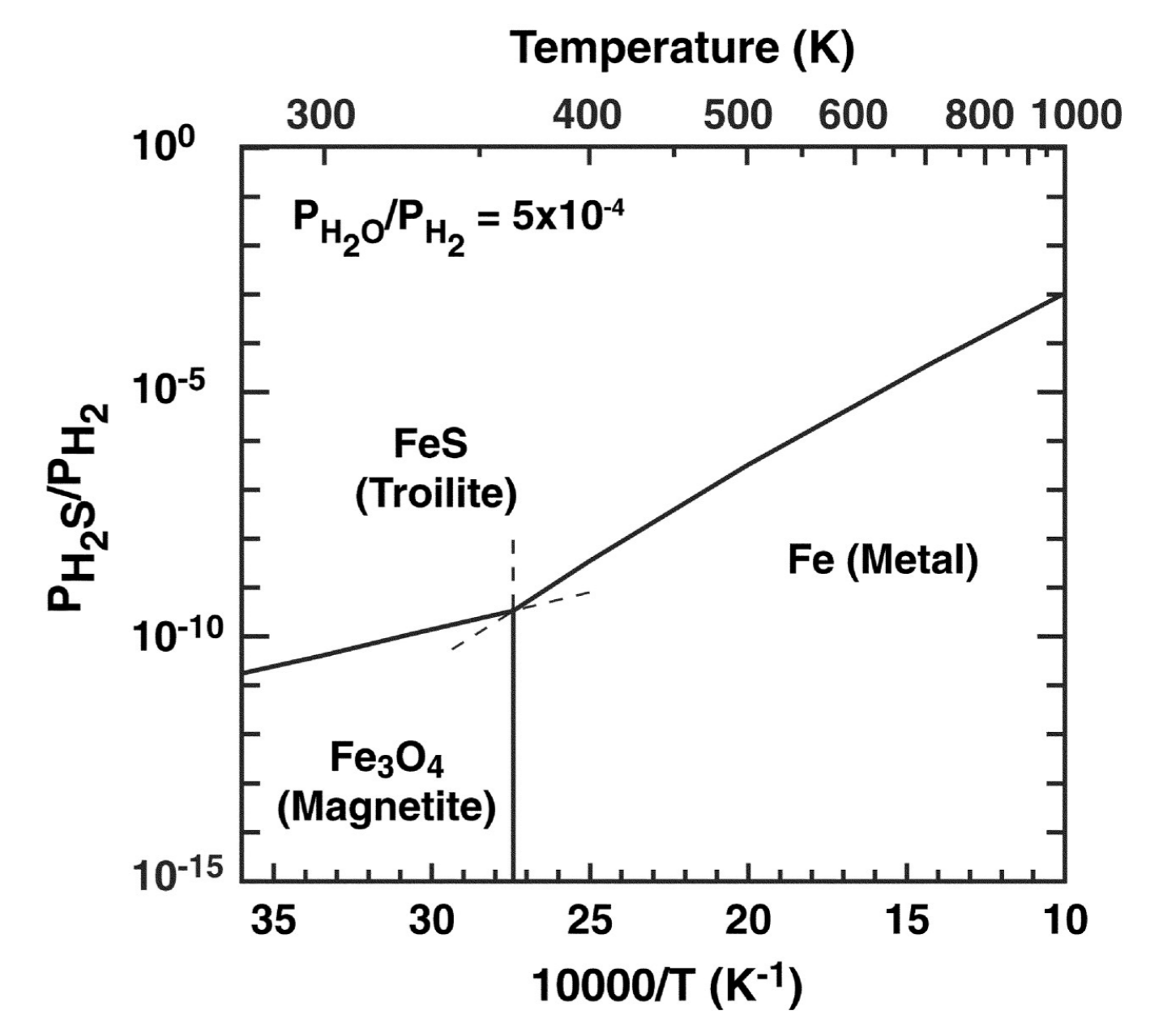
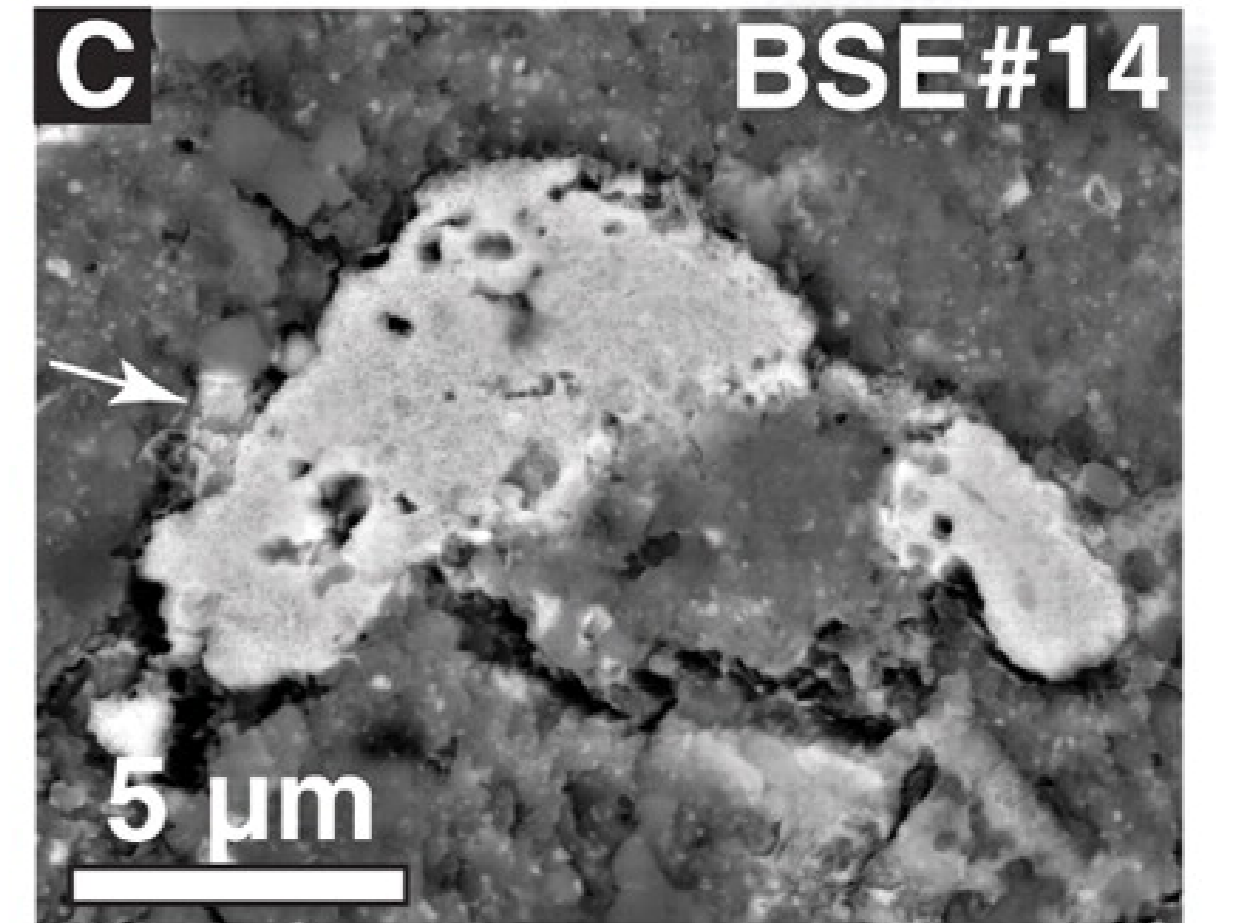
坂本直哉, 川崎教行  
北海道大学

Oxygen in the solar system is believed to be mixing of  $^{17}\text{O}$ -rich and  $^{16}\text{O}$ -rich reservoirs (e.g. Yurimoto et al., 2008 and references therein). The  $^{17,18}\text{O}$ -rich end member ( $\delta^{17,18}\text{O} \approx +180\text{‰}$ ) was found from magnetite in cosmic symplectite (Sakamoto et al., 2007). Nevertheless candidates of  $^{16}\text{O}$ -rich end member were reported from one chondrule, 4 Ca-Al-rich inclusions (CAI) and the Sun, characteristics of the reservoir are unclear because of diversity of few samples (Kobayashi et al., 2003; Gounelle et al., 2009; McKeegan et al., 2011; Krot et al., 2017). Therefore, we are investigating super  $^{16}\text{O}$ -rich components in carbonaceous chondrites, especially focus on oxides formed at high temperature.

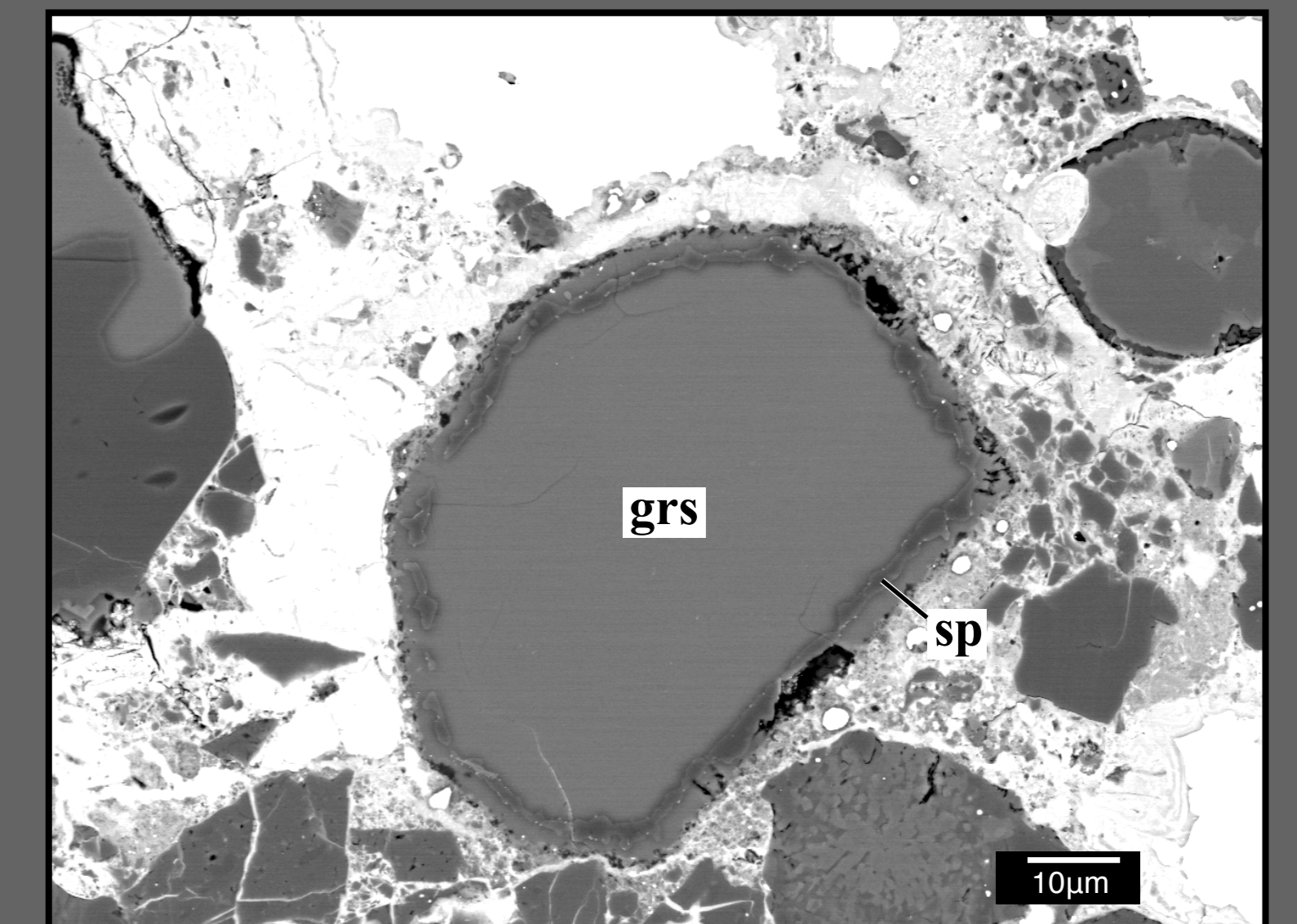
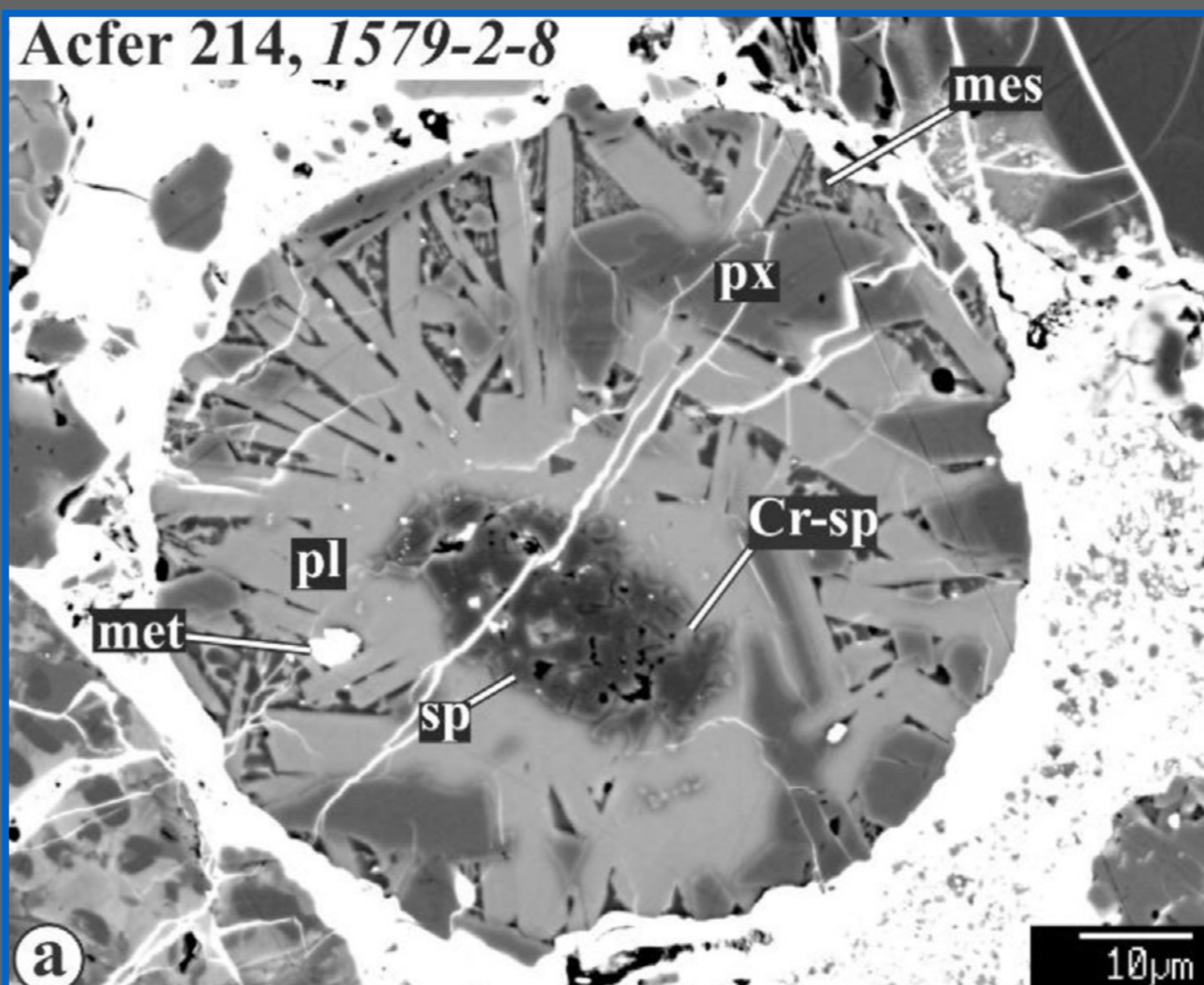
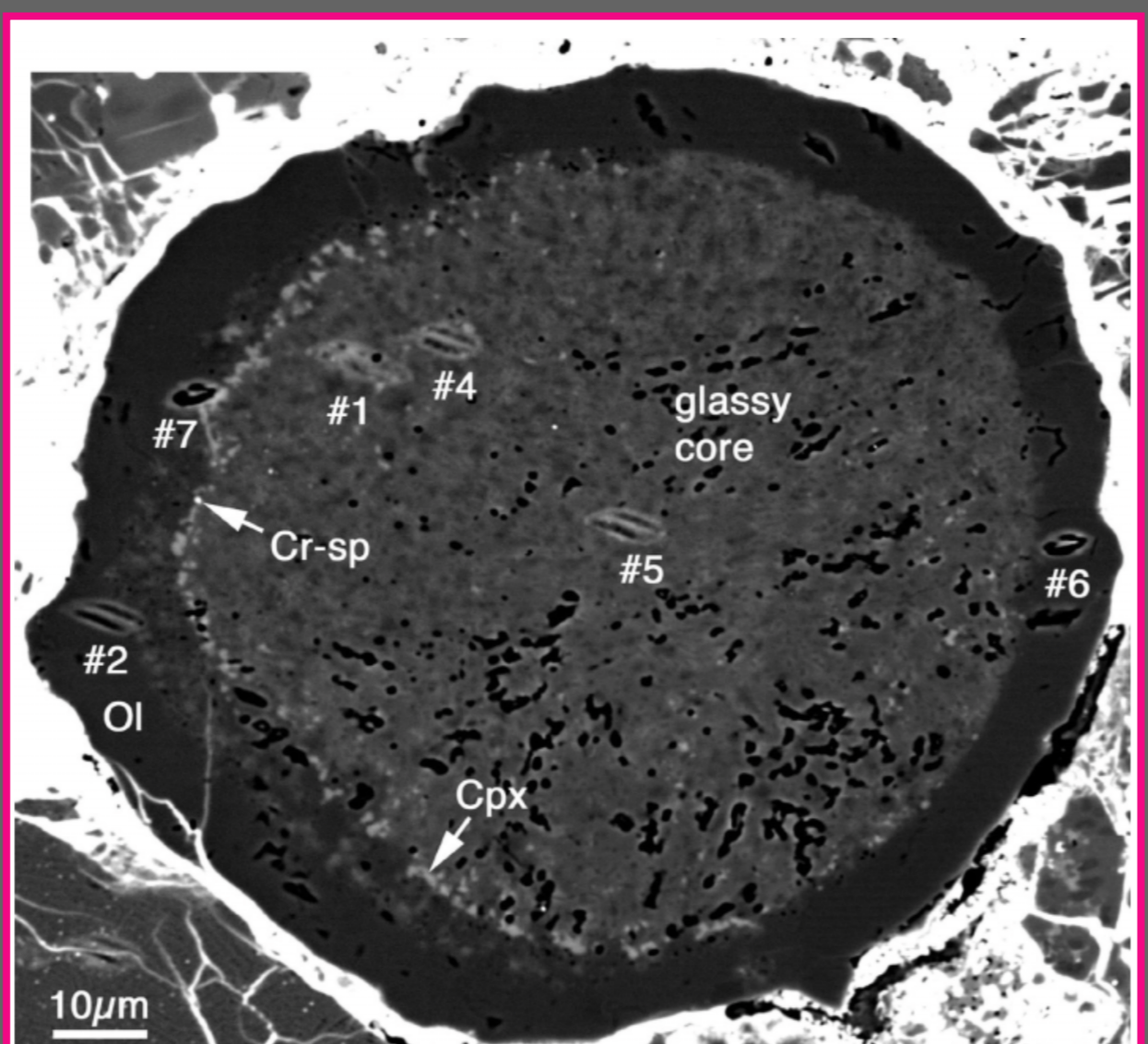
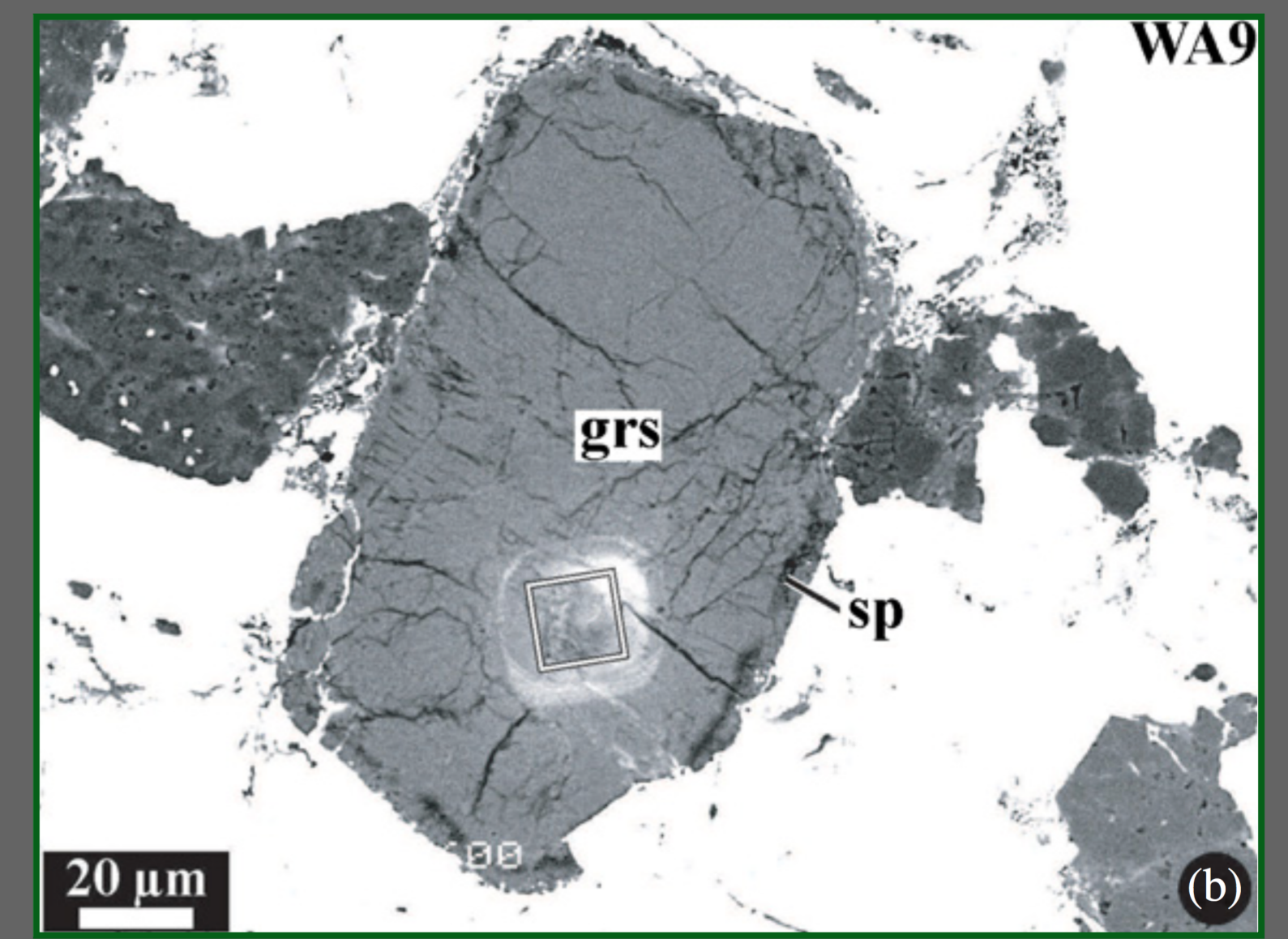
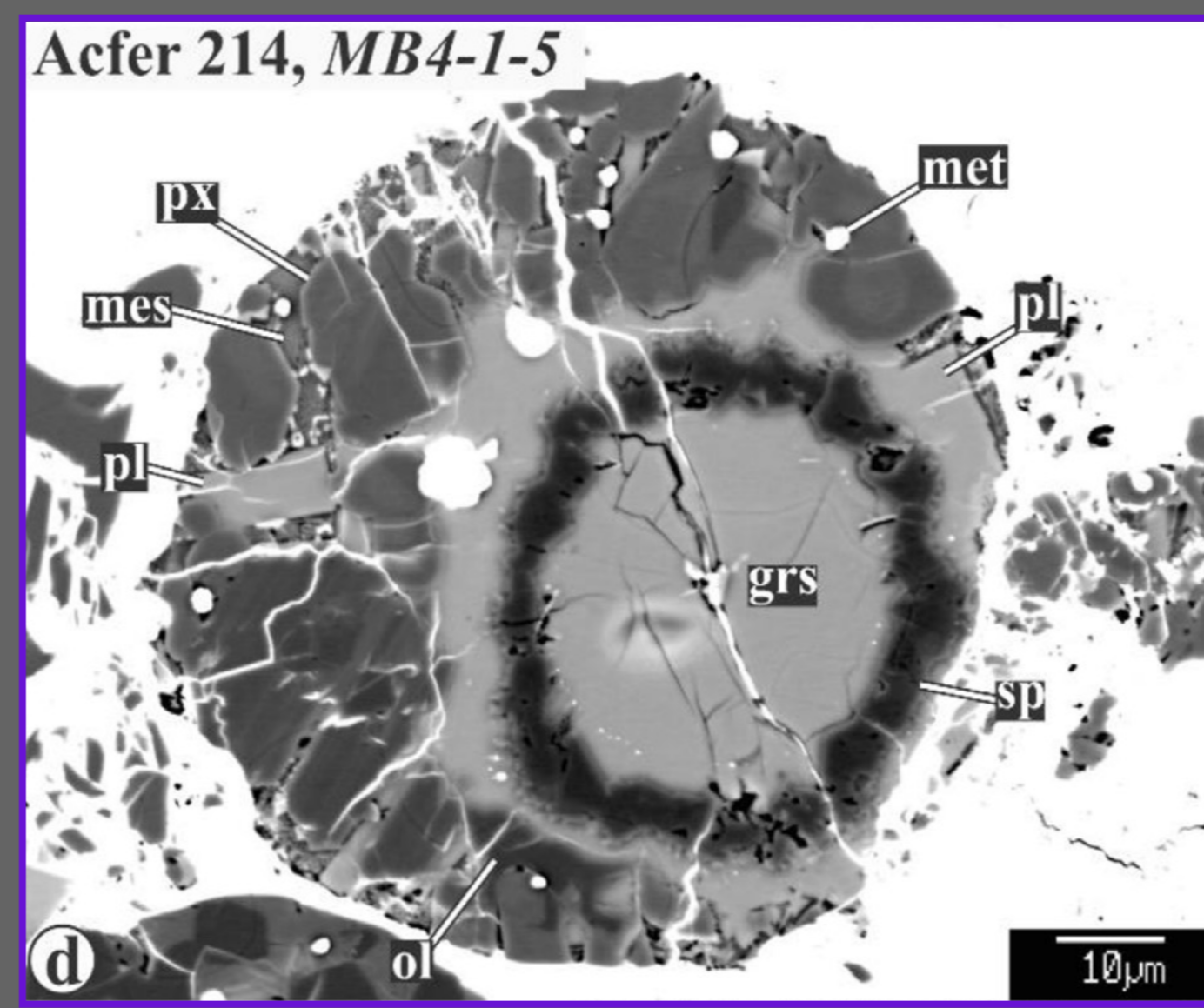
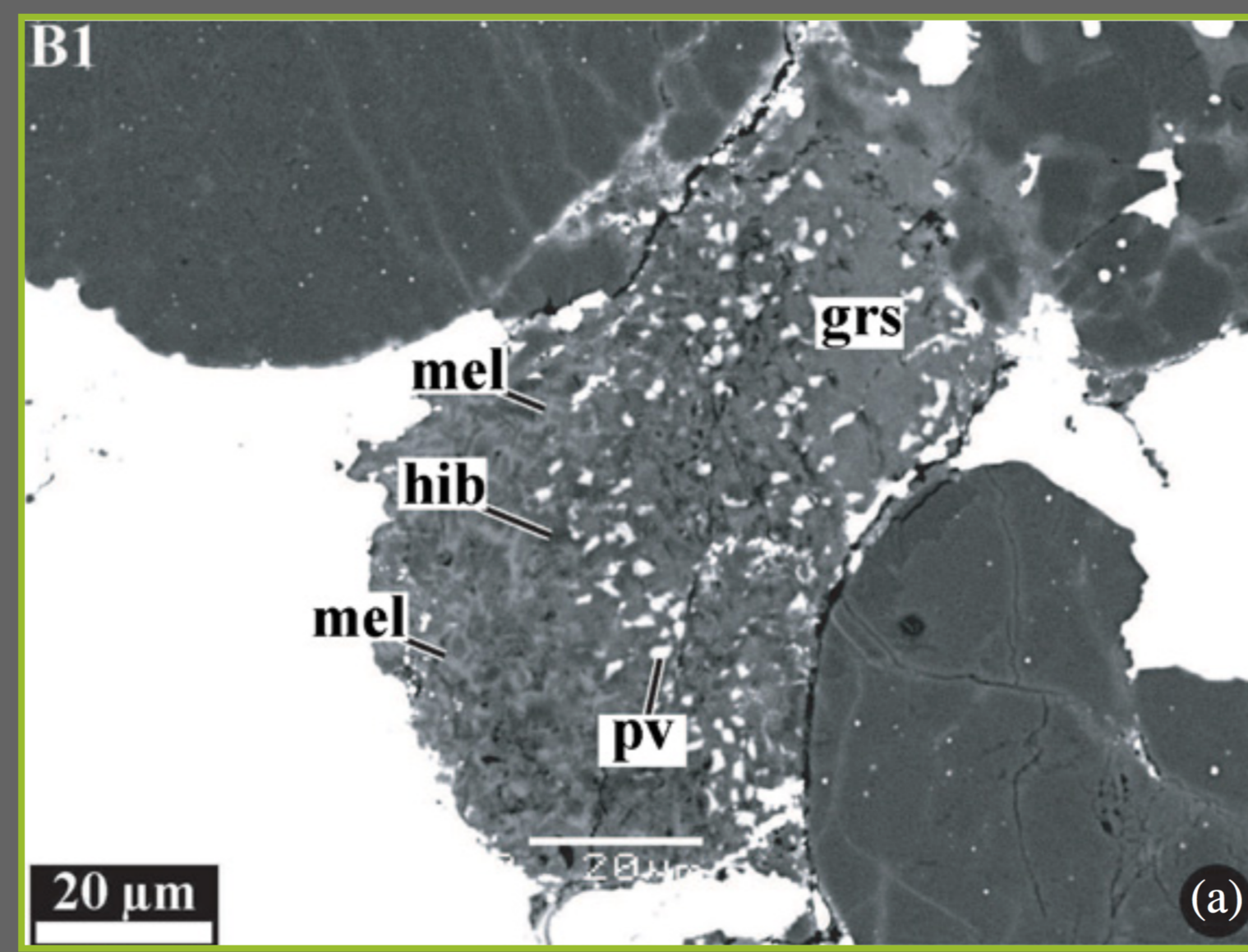
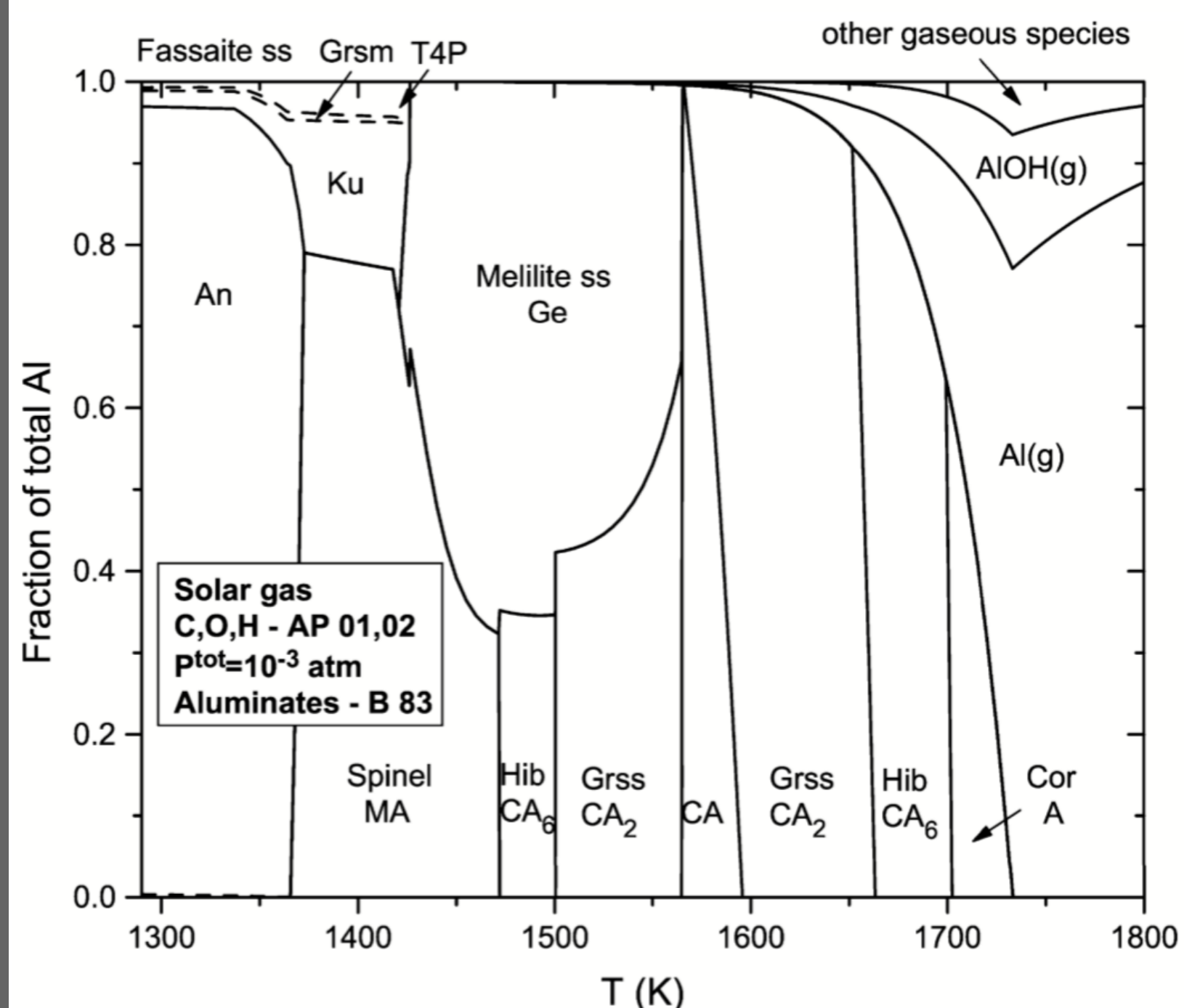
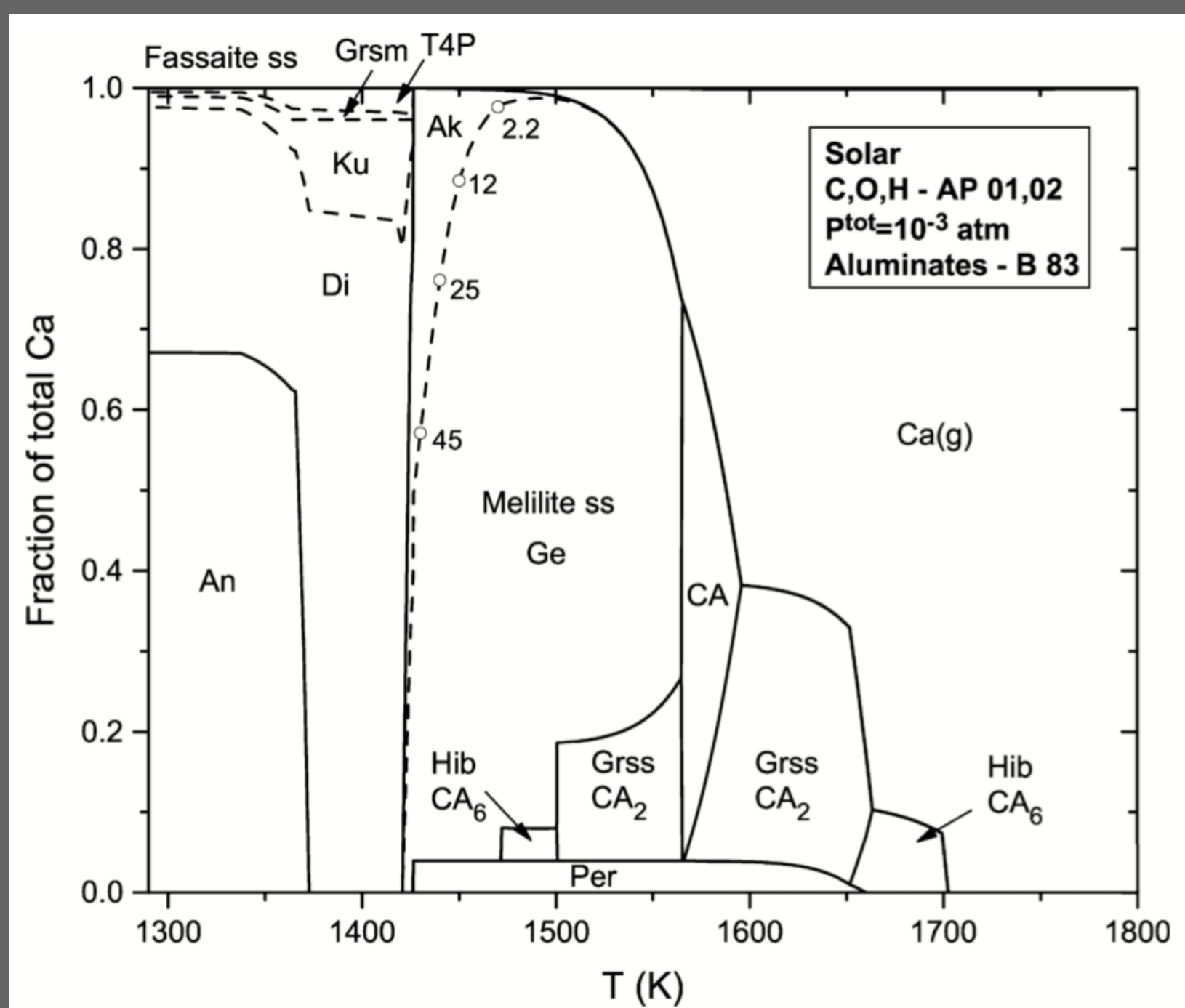
## The Solar System in Oxygen Isotope Space



Cosmic Symplectite (COS)  
Sakamoto et al., 2007



### Super $^{16}\text{O}$ -rich materials



Grossman, 2010

Kobayashi et al., 2003

Krot et al., 2017