

Figure 1. PTXFO₂ diagram for diamond inclusions of Cr diopsides of the whole data base. Pressure estimates (Nimis, Taylor, 2000)

Fig.3

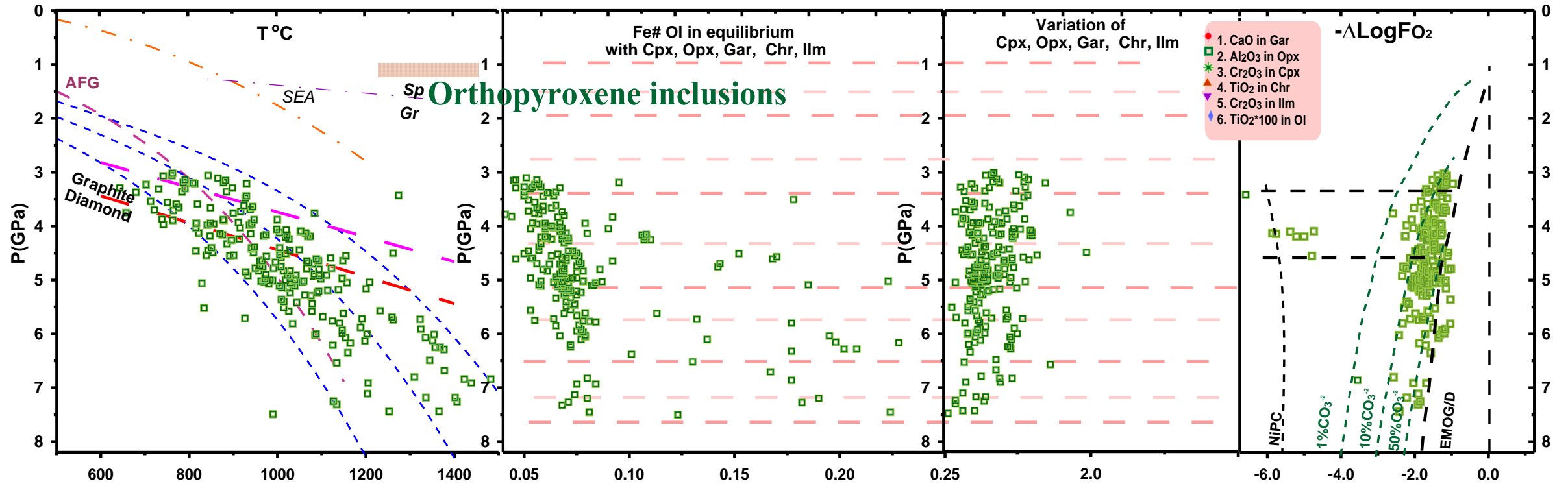


Figure 2. PTXFO₂ diagram for diamond inclusions of orthopyroxenes of the whole data base. Pressure estimates (McGregor, 1980)

Fig.1

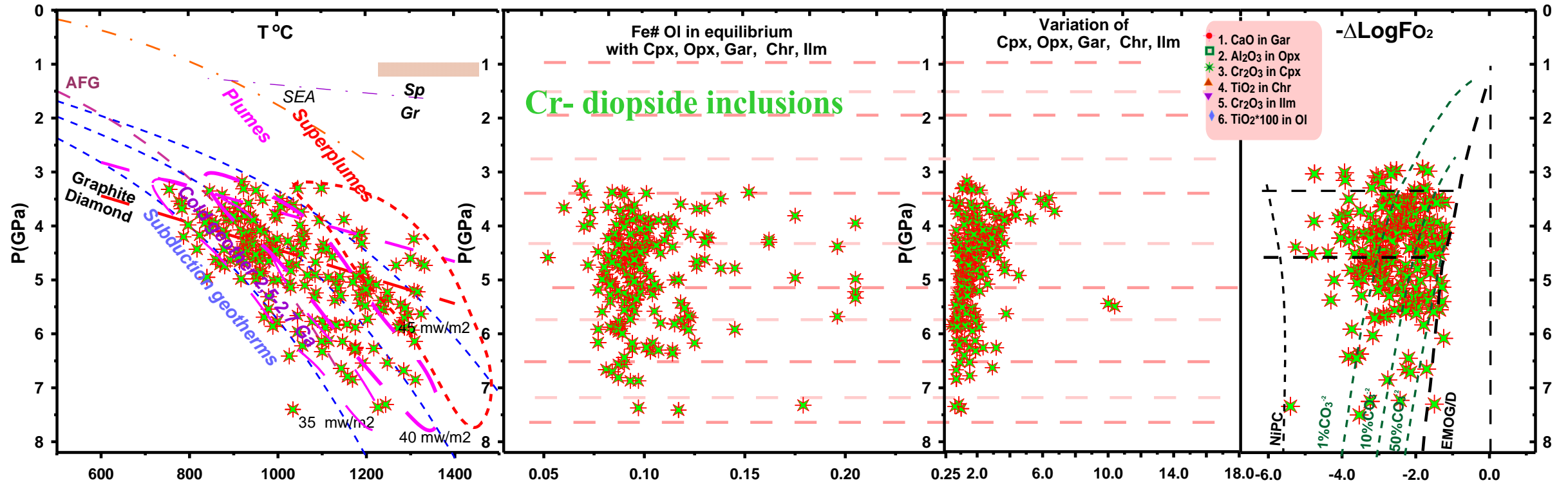


Figure 3. PTXFO₂ diagram for diamond inclusions of Cr diopsides of the whole data base. Pressure estimates (Ashchepkov et al., 2017 for peridotite)

Fig.5

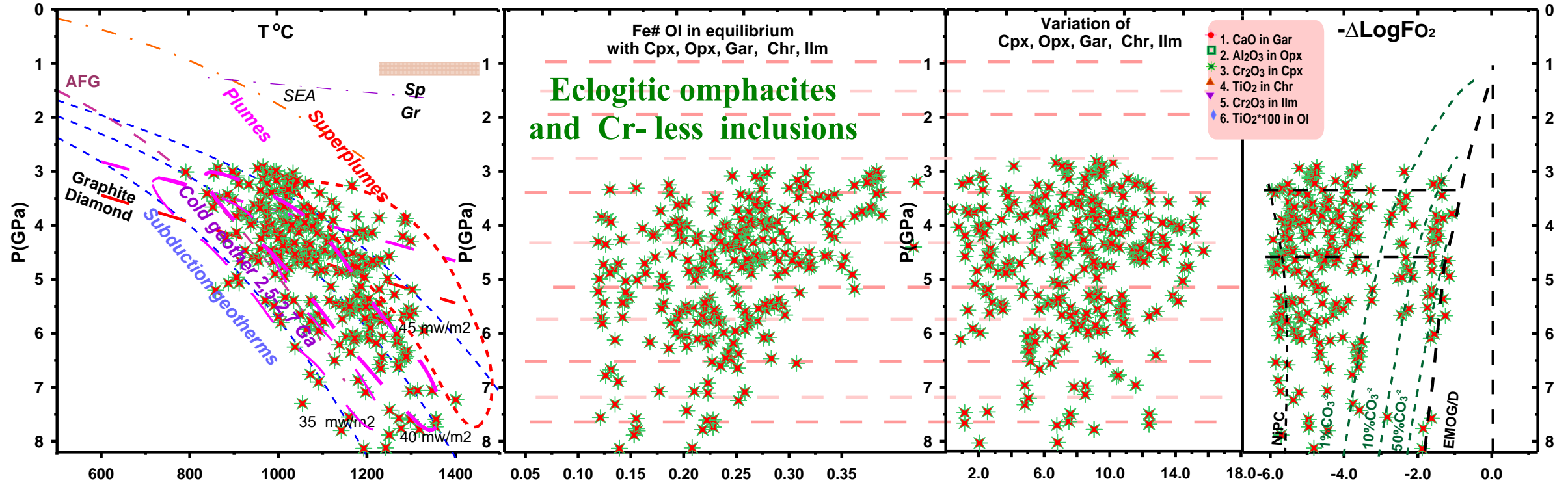


Figure 4. PTXFO₂ diagram for diamond inclusions of Cr less clinopyroxenes of the whole data base. Pressure estimates (Ashchepkov et al., 2017 universal for eclogites)

Fig.2

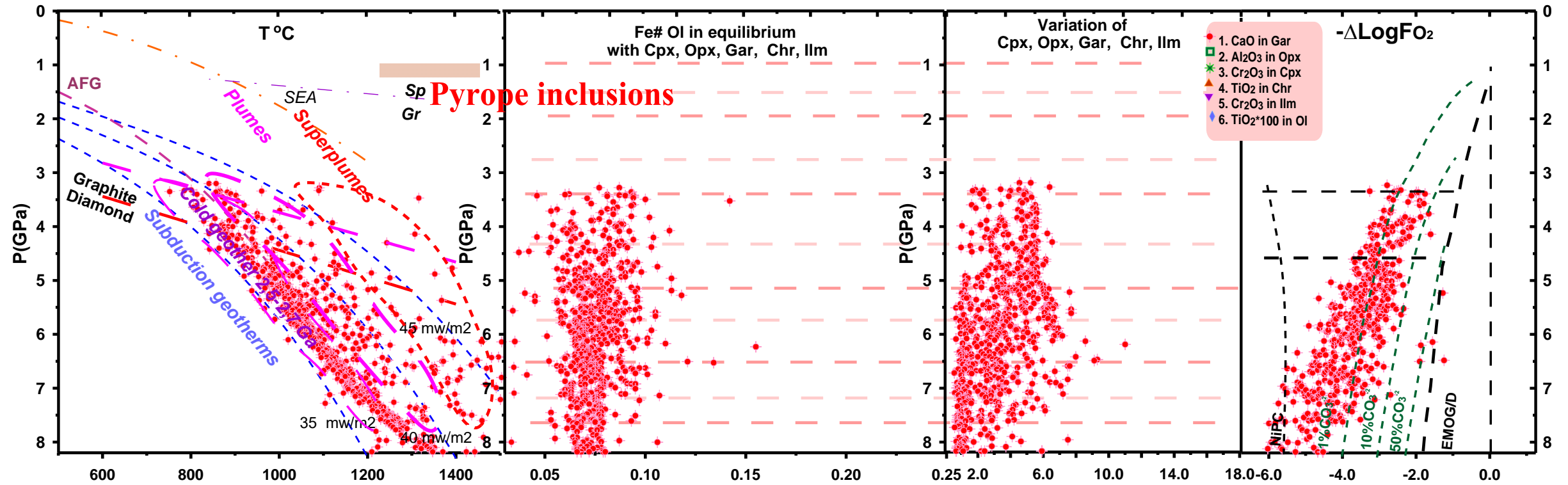


Figure 5. PTXFO2 diagram for diamond inclusions of Cr pyropes of the whole data base. Pressure estimates (Ashchepkov et al., 2017 for peridotite)

Fig.6

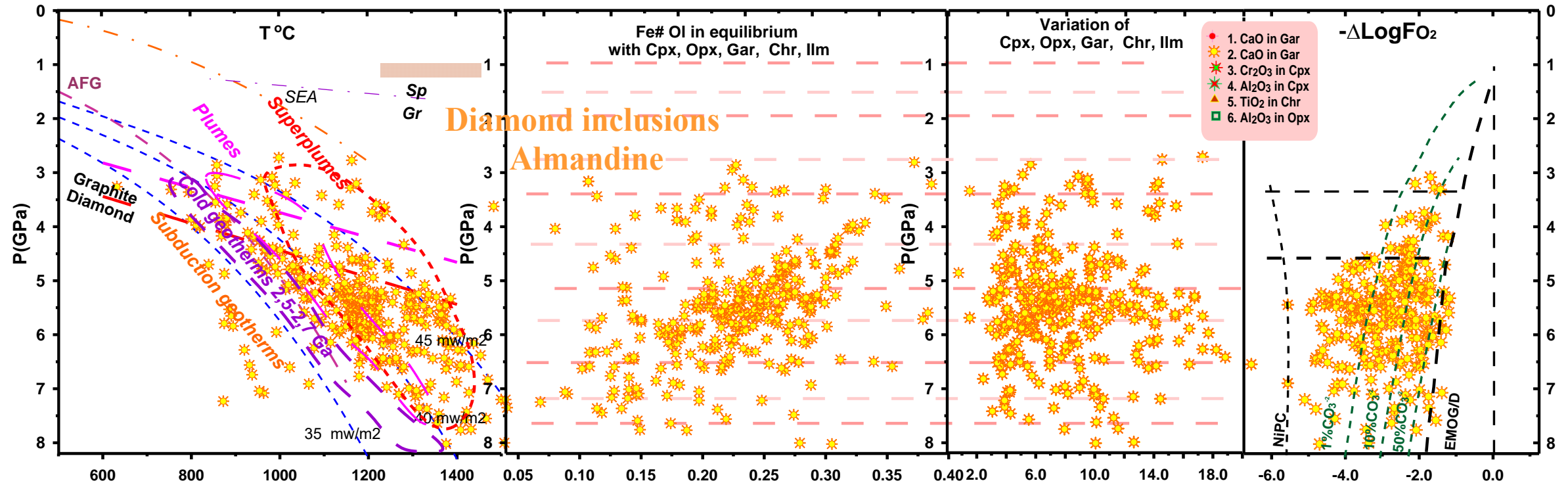


Figure 6. PTXFO₂ diagram for diamond inclusions of Cr less garnets of the whole data base. Pressure estimates (Ashchepkov et al., 2017 for eclogites)

Fig.4

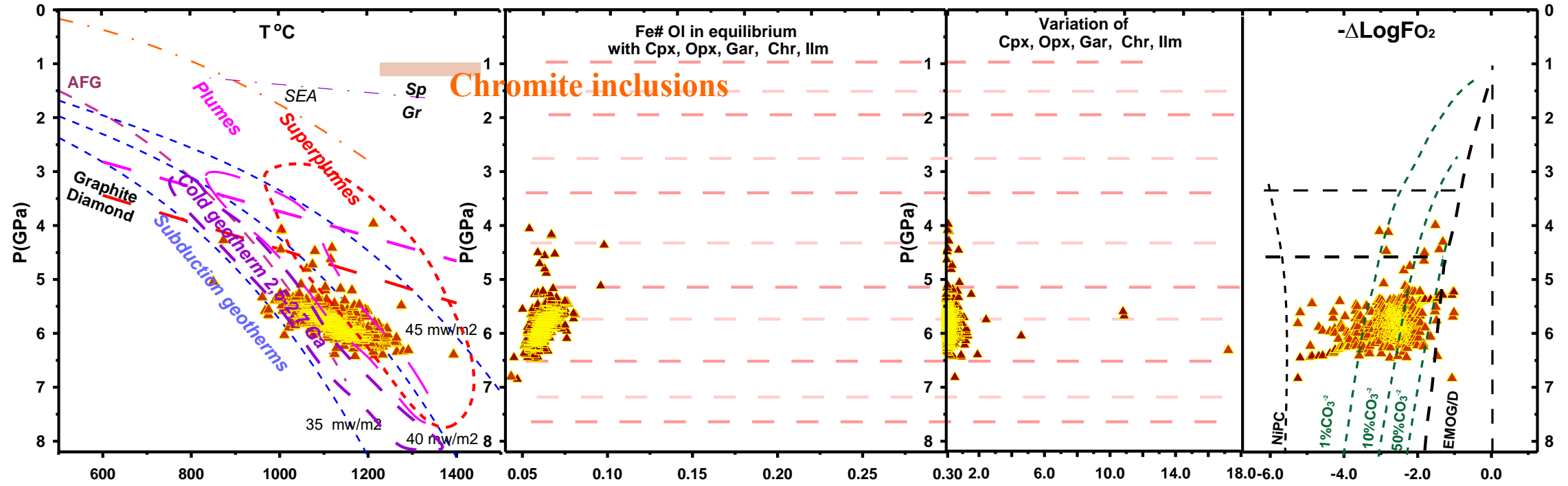


Figure 7. PTXFO₂ diagram for diamond inclusions of Chromites of the whole data base. Pressure estimates (Ashchepkov et al., 2010)

Clinopyroxene Cr-Diopside

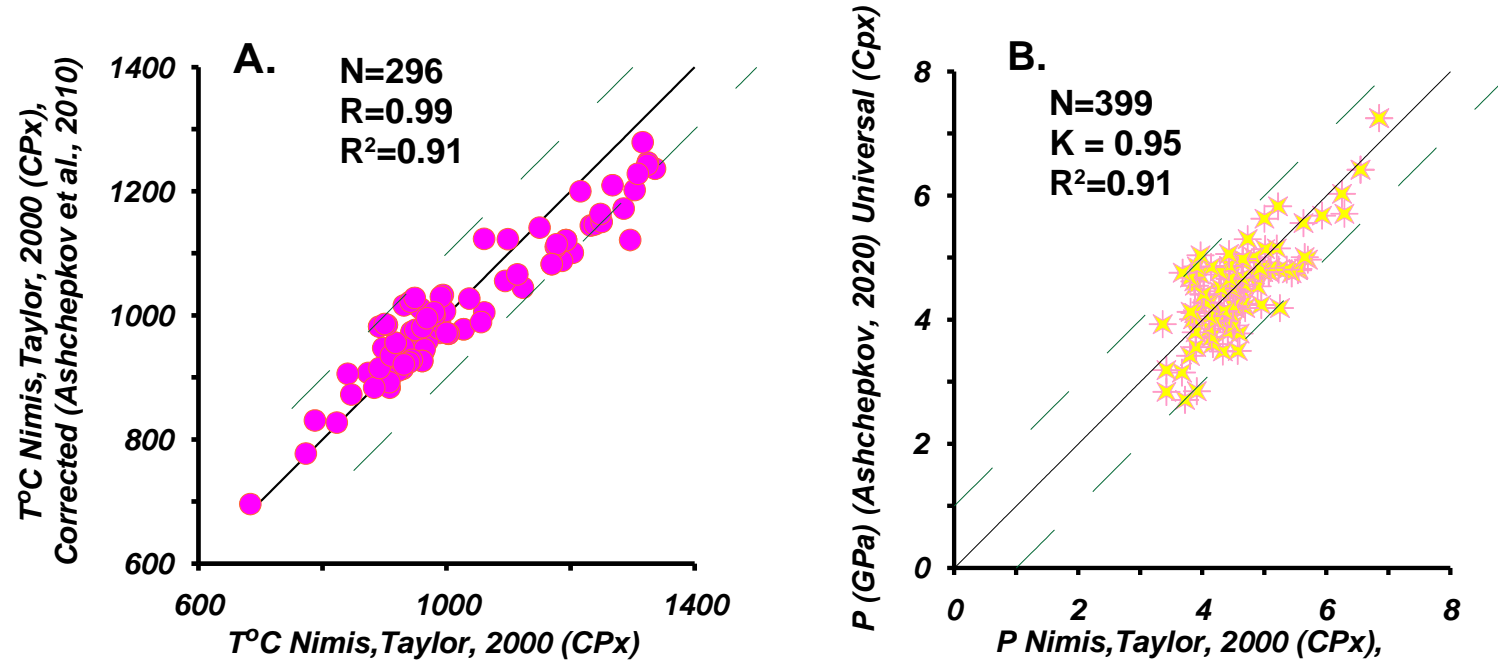
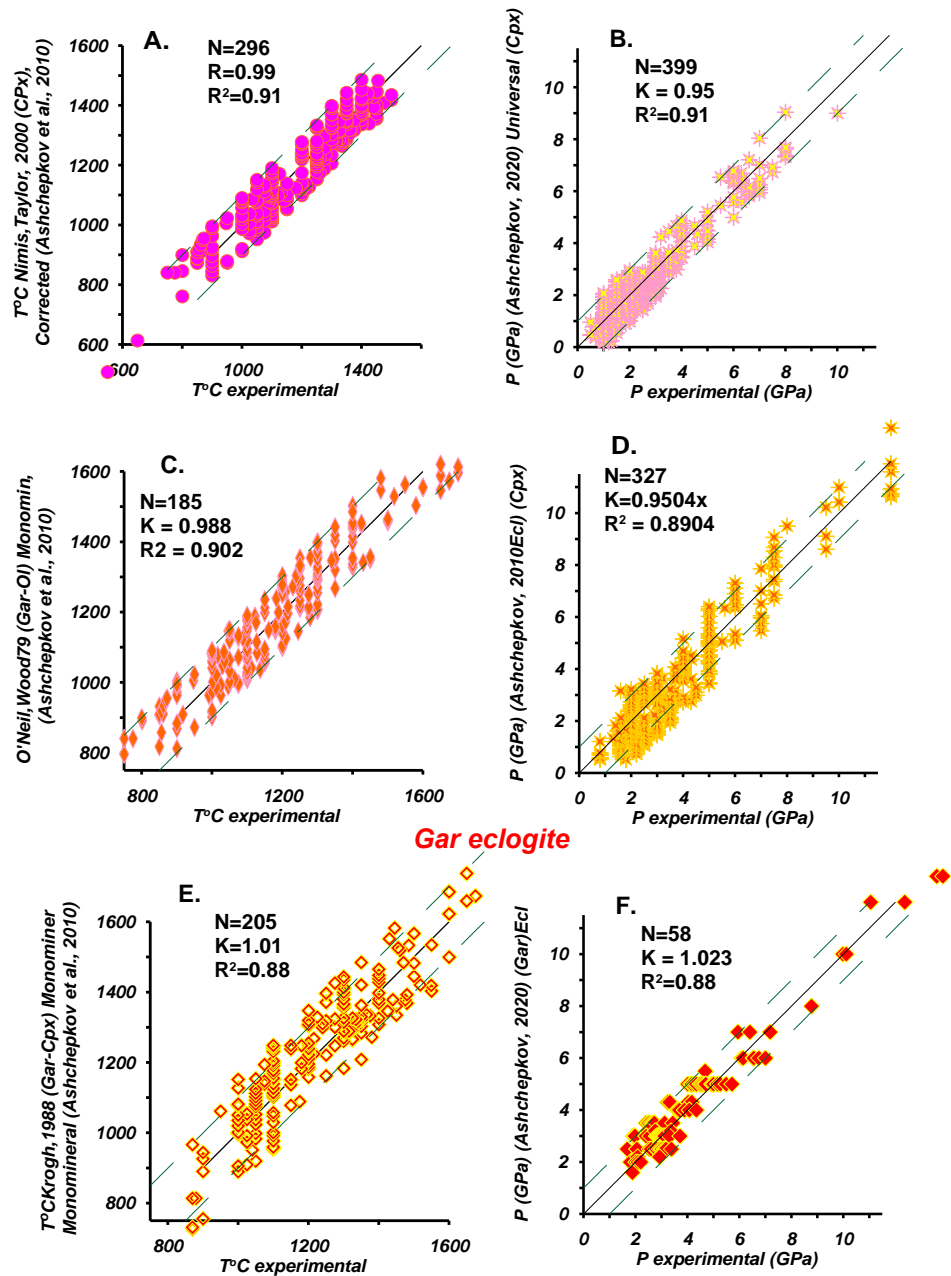


Figure 8. Correlations A. T estimates (Nimis Taylor, 2000) and corrected version and B. P (GPa) estimates (Nimis Taylor, 2000) and (Ashchepkov et al., 2017)

Clinopyroxene eclogite



Gar eclogite

Figure 9. Correlations A. ToC estimates (Nimis Taylor, 2000, cor and B. P (GPa) (Ashchepkov et al Universal) and experimental data C. ToC estimates (O'Neill, Wood, 1979 mono) P (GPa)(Ashchepkov et al., 2010) Cpx D. ToC estimates (O'Krogh, 1988 mono) P (GPa)(Ashchepkov et al., 2017) for garnets

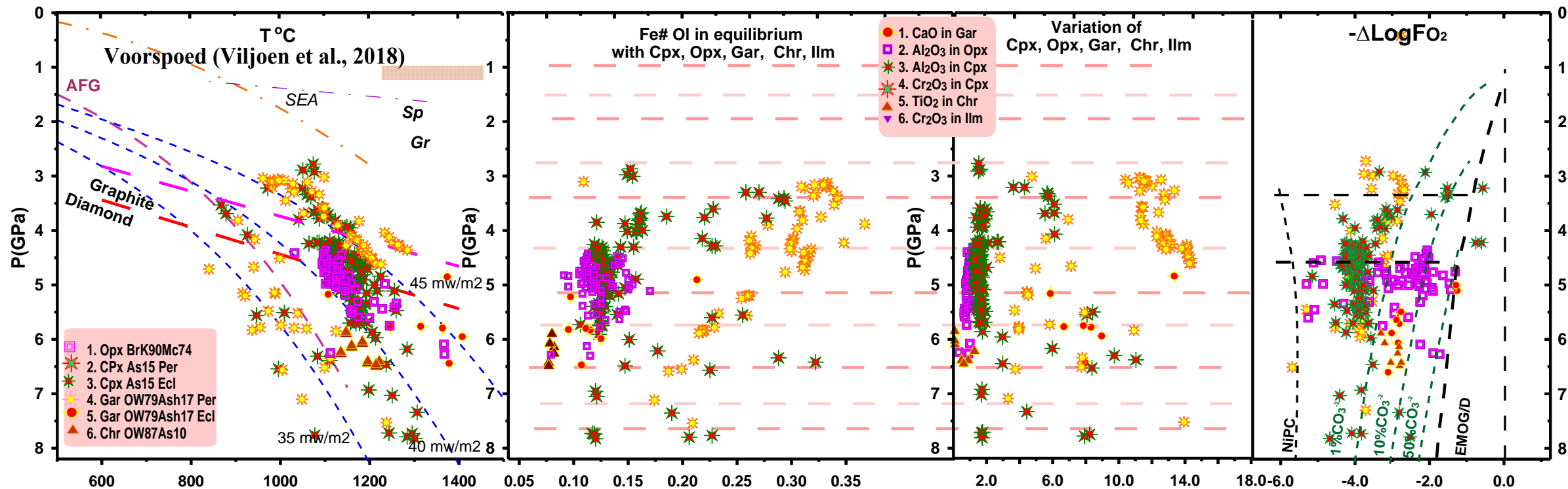


Figure 10. PTXFO₂ diagram for diamond inclusions from Voorspoed pipe. Signs see Fig.3 from main text.

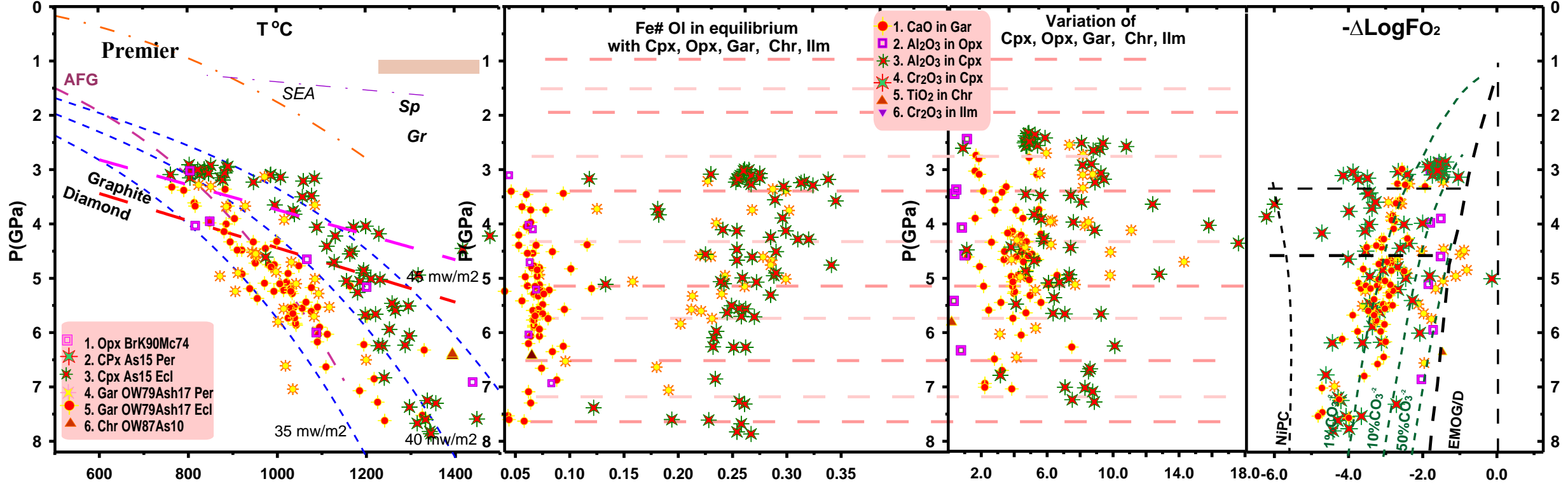


Figure 11. PTXFO2 diagram for diamond inclusions from Premier pipe. Signs see Fig.3 from main text.

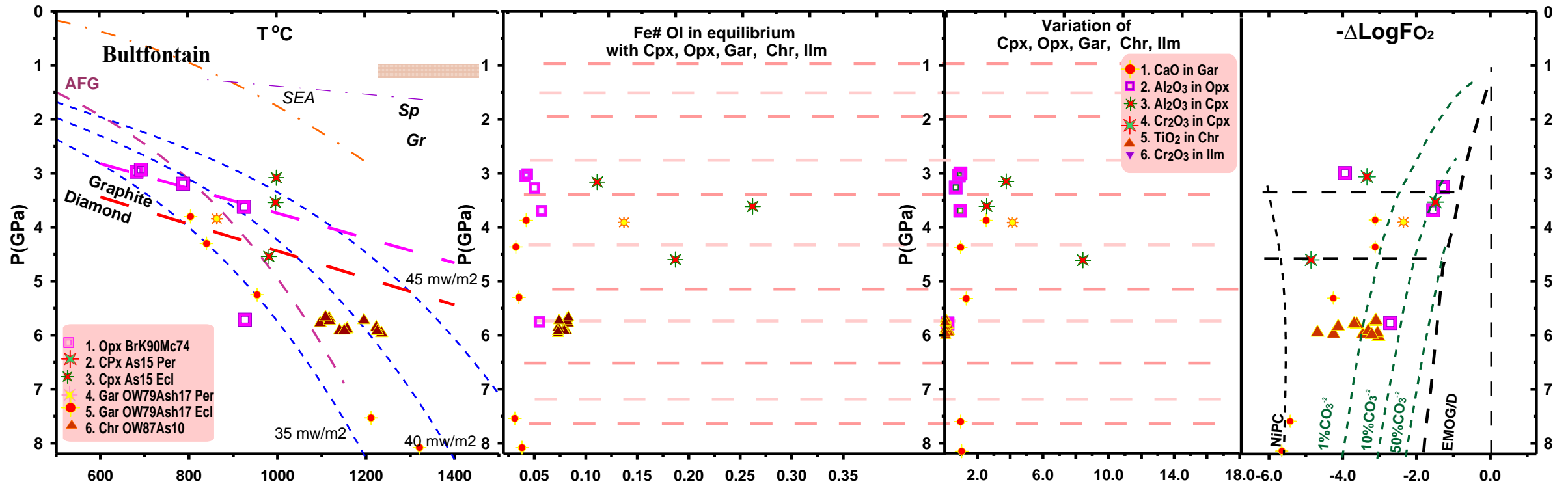


Figure 12. PTXFO₂ diagram for diamond inclusions from Bultfontain pipe. Signs see Fig.3 from main text.

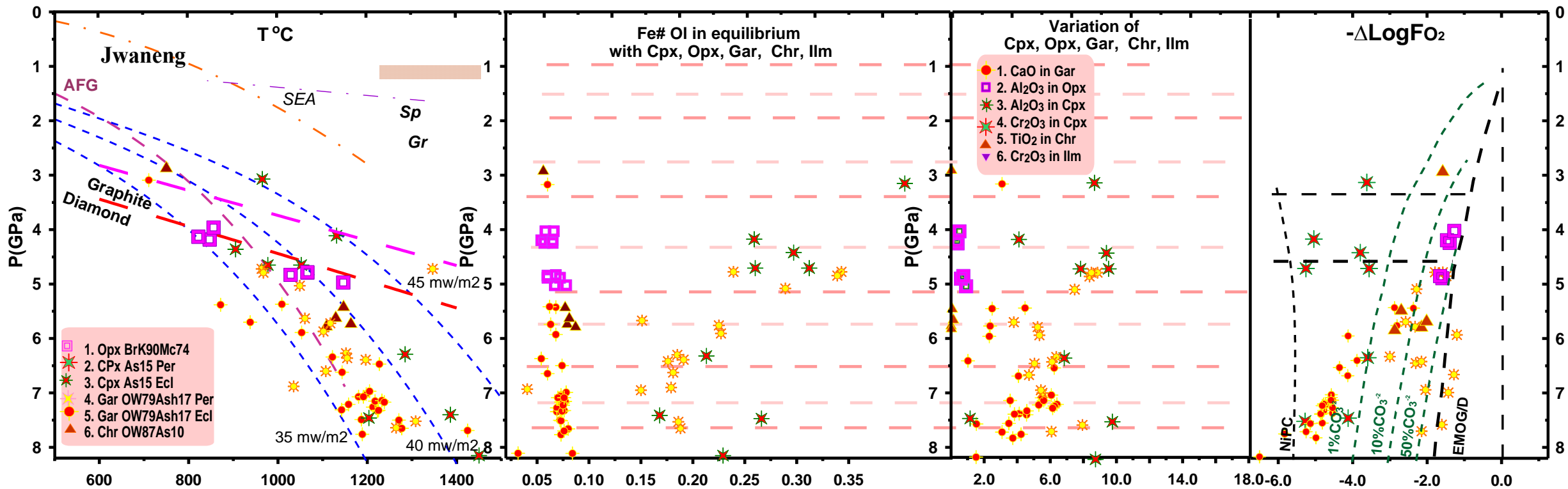


Figure 13. PTXFO₂ diagram for diamond inclusions from Jwaneng pipe. Signs see Fig.3 from main text.

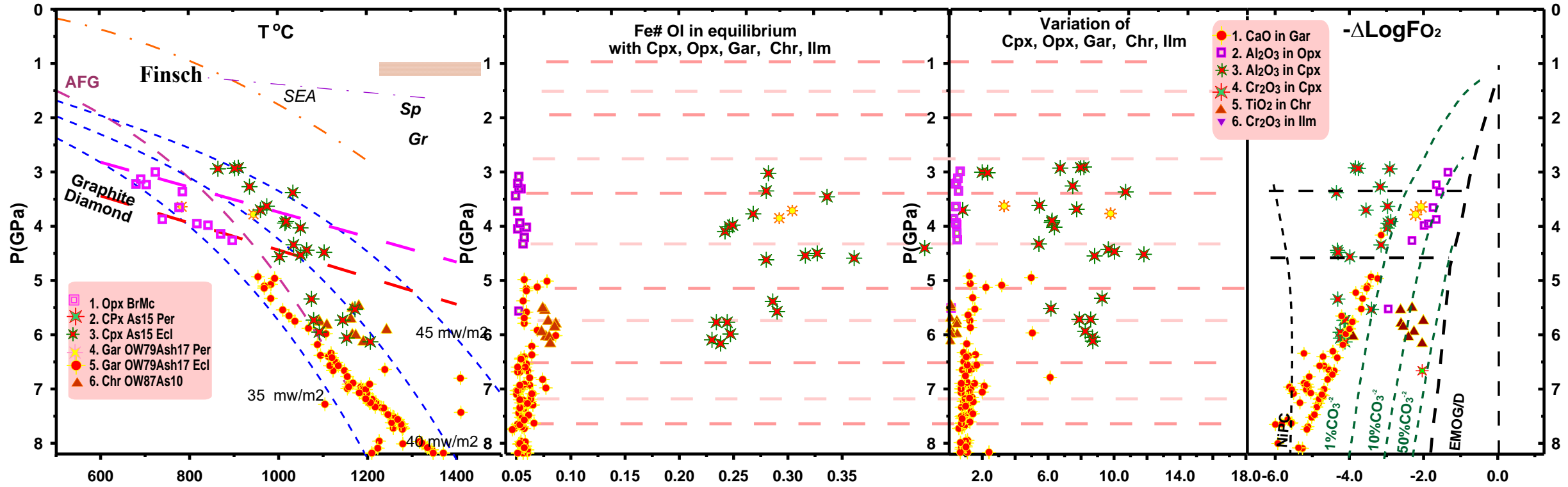


Figure 14. PTXFO₂ diagram for diamond inclusions from Finch pipe. Signs see Fig.3 from main text.

Fig.13

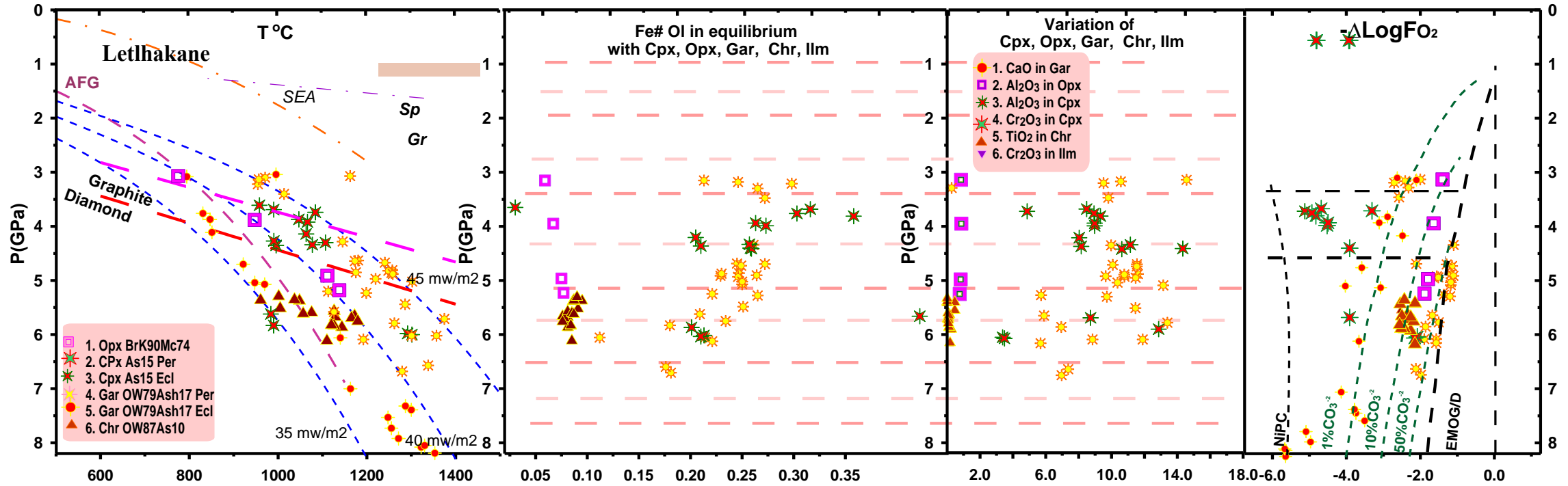


Figure 15. PTXFO₂ diagram for diamond inclusions from Letlhakane pipe. Signs see Fig.3 from main text.

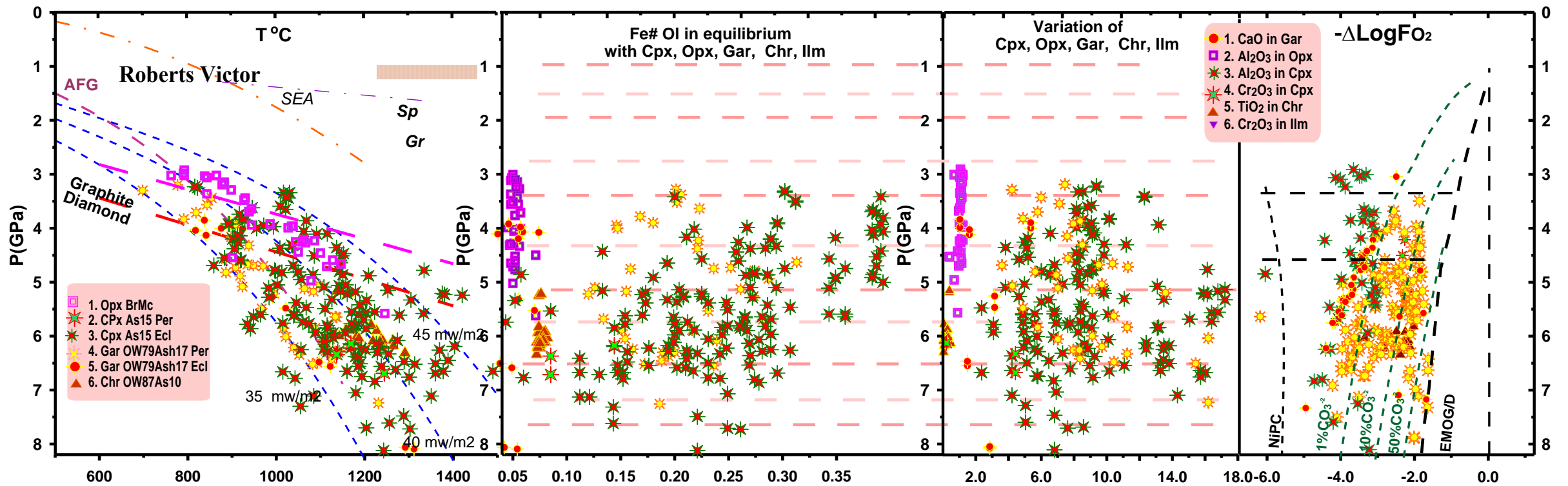


Figure 16. PTXFO₂ diagram for diamond inclusions from Roberts Victor pipe. Signs see Fig.3 from main text.

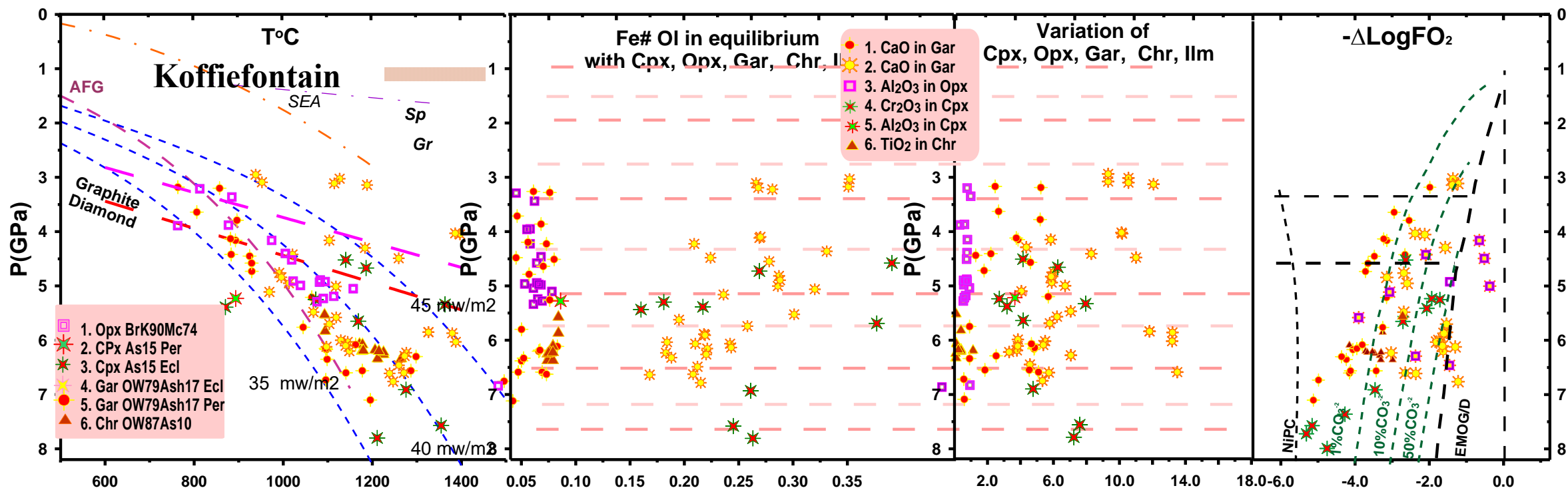


Figure 17. PTXFO₂ diagram for diamond inclusions from Koffiefontain pipe. Signs see Fig.3 from main text.

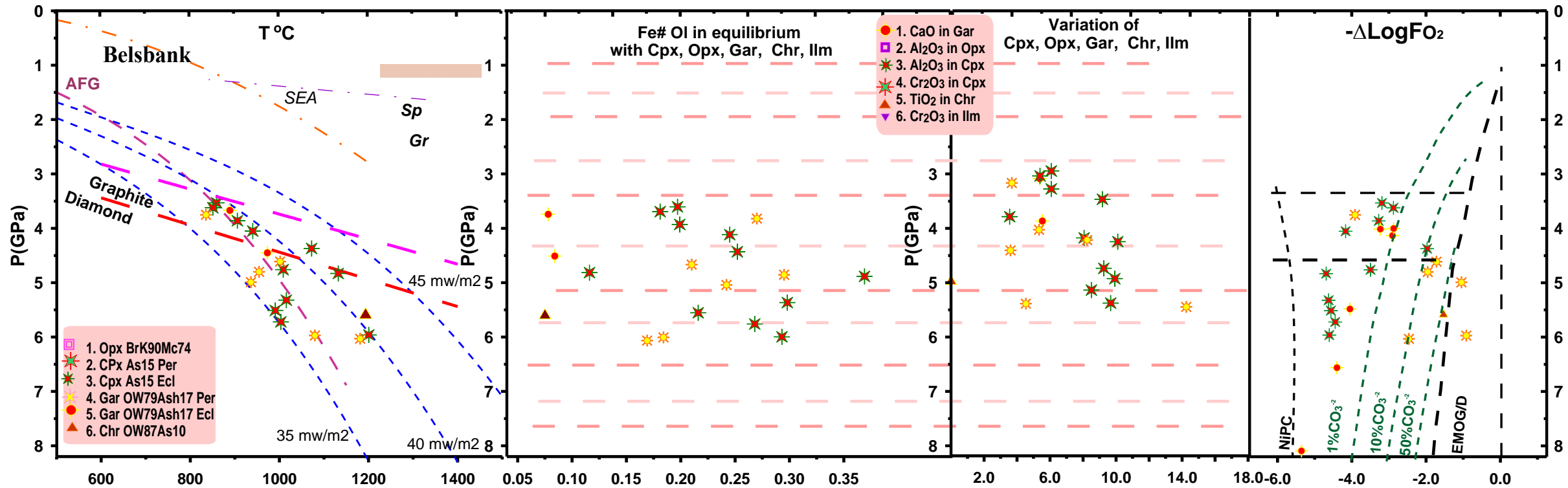


Figure 18. PTXFO₂ diagram for diamond inclusions from Belsbank pipe. Signs see Fig.3 from main text.

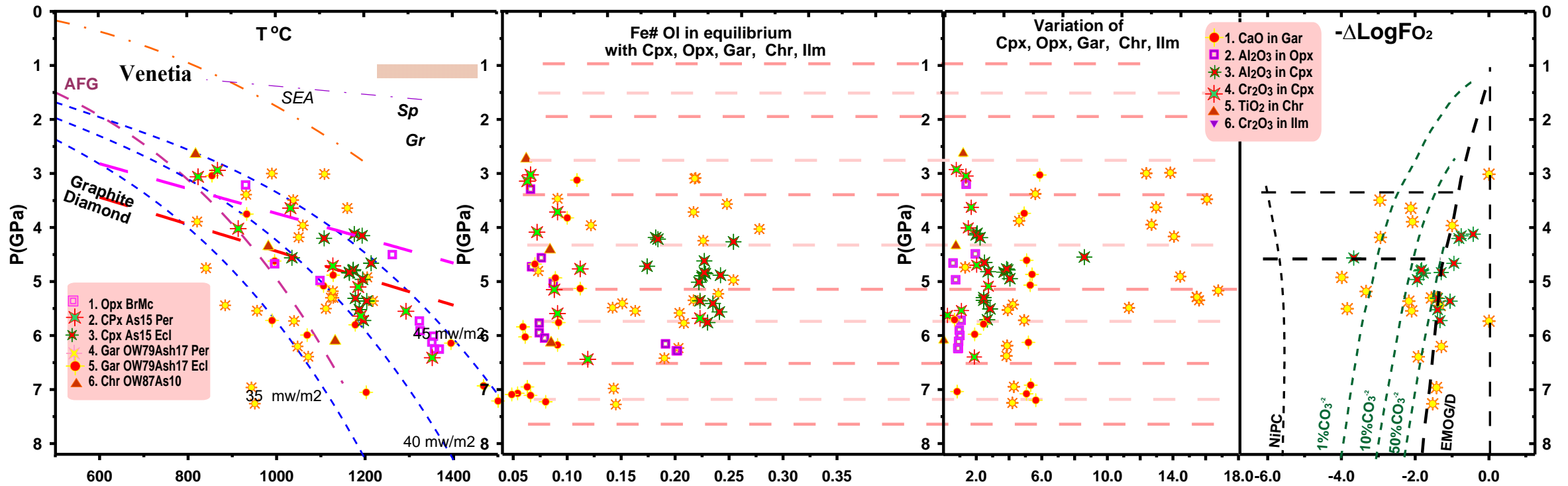


Figure 19. PTXFO₂ diagram for diamond inclusions from Venetia pipe. Signs see Fig.3 from main text.

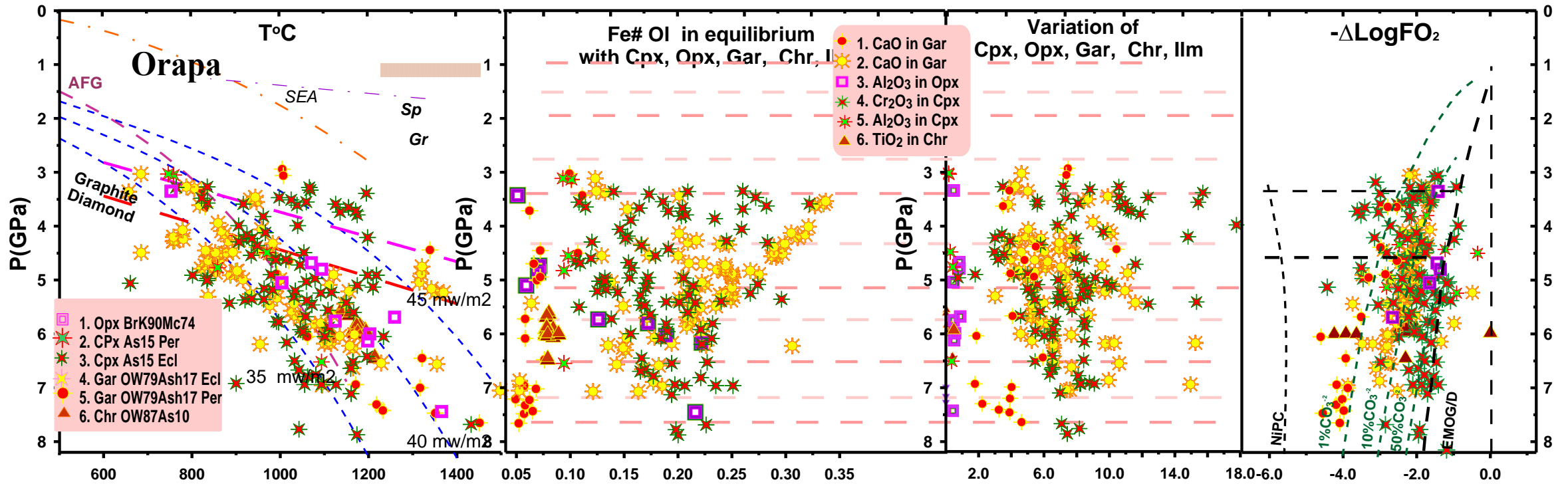


Figure 20. PTXFO₂ diagram for diamond inclusions from Venetia pipe. Signs see Fig.3 from main text.

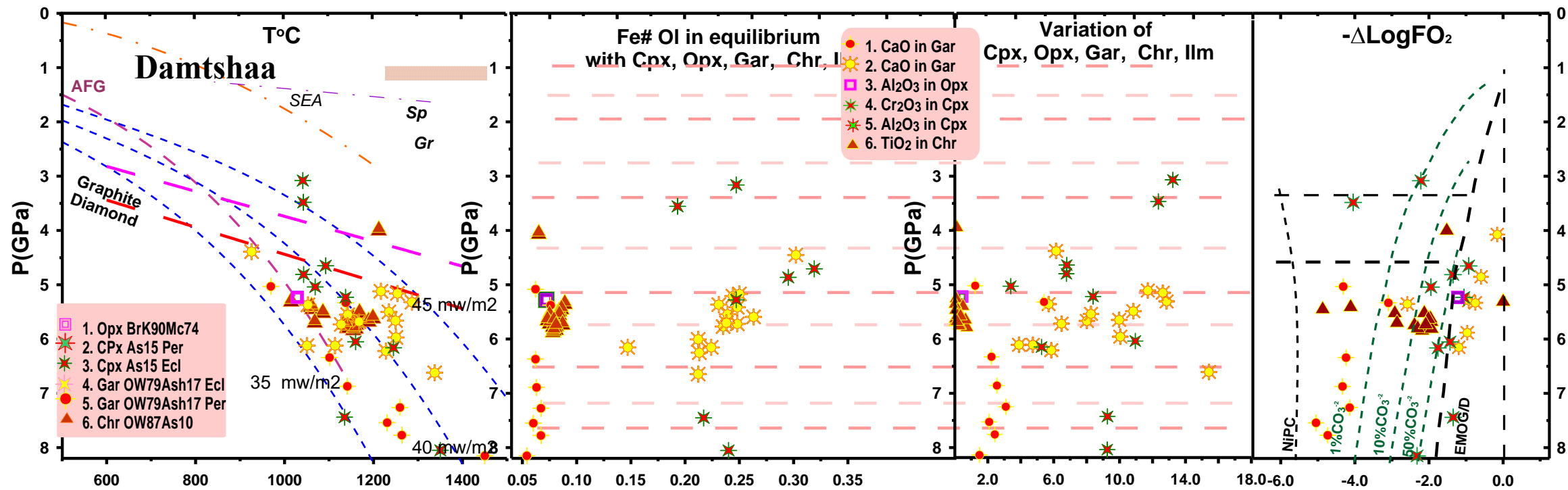


Figure 21. PTXFO₂ diagram for diamond inclusions from Damtshaa pipe. Signs see Fig.3 from main text.

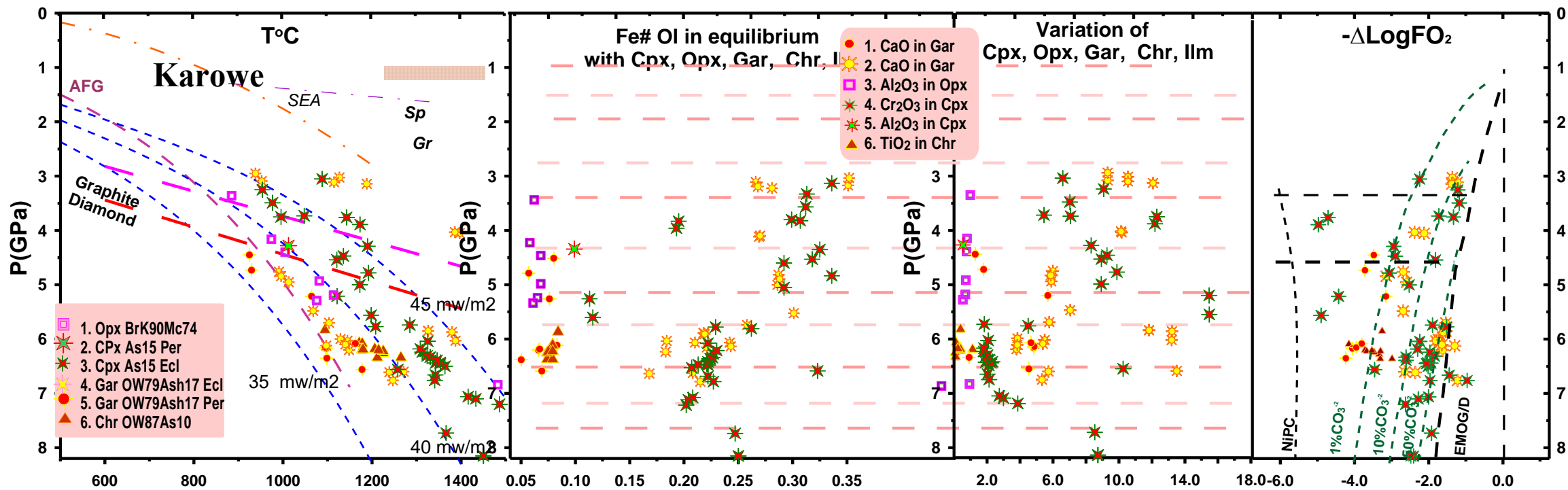


Figure 21. PTXFO₂ diagram for diamond inclusions from Karowe pipe. Signs see Fig.3 from main text.

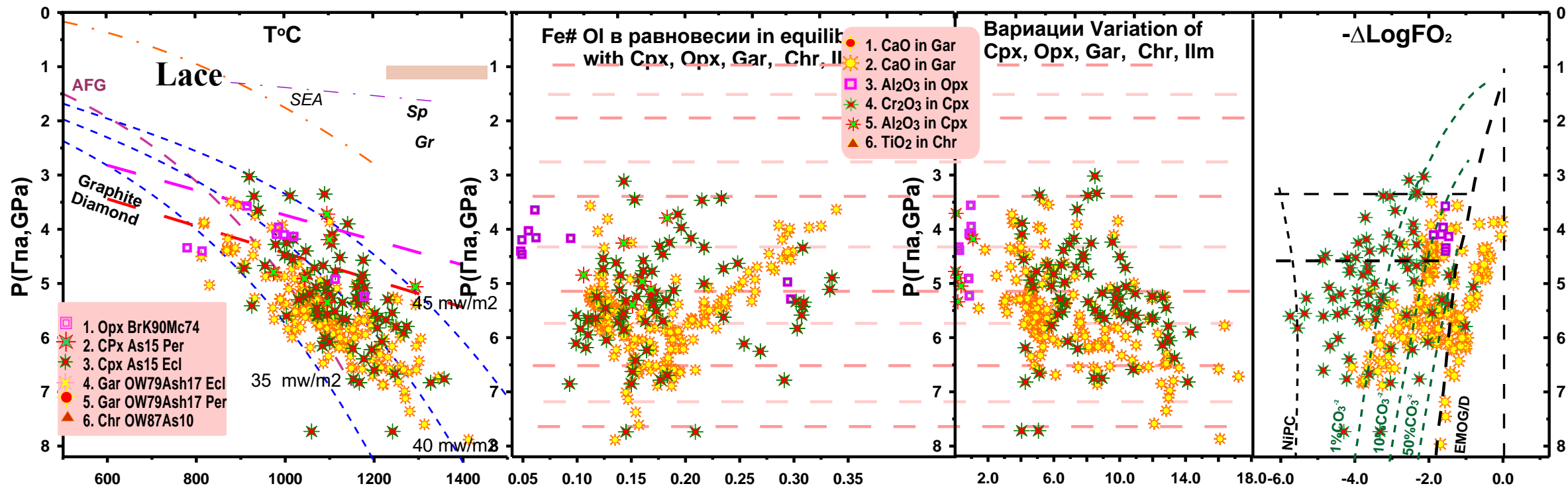


Figure 23. PTXFO₂ diagram for diamond inclusions from Lace pipe. Signs see Fig.3 from main text.

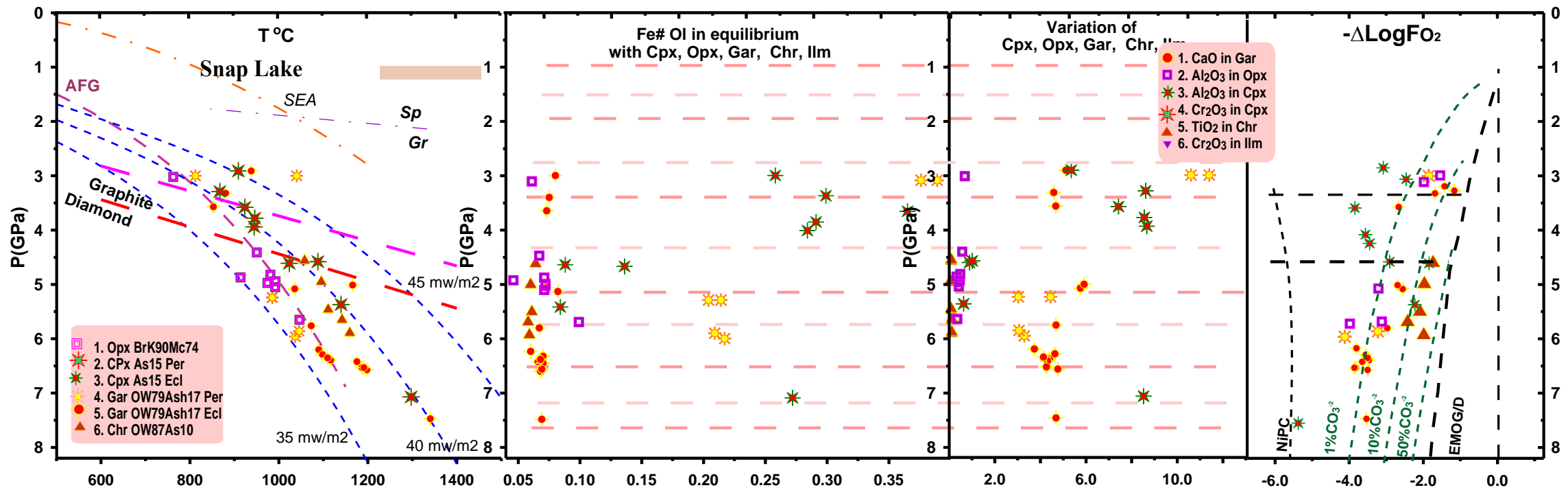


Figure 24. PTXFO₂ diagram for diamond inclusions from Snap Lake pipe. Signs see Fig.3, from main text.

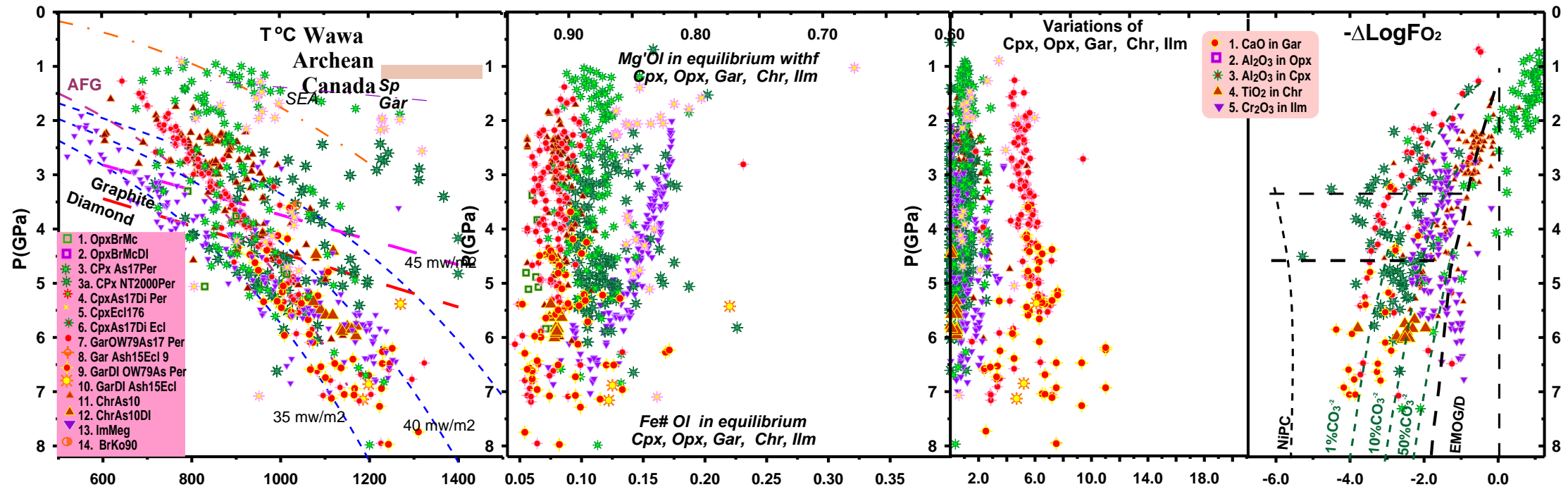


Figure 25. PTXFO₂ diagram for diamond inclusions from Warwa lamprophyres and kimberlitic minerals from surrounding placers [53–56]: Symbols: 1. Opx: 1.: T °C [165]–P (GPa)[151]; Cpx: 2. The same for diamond inclusions: 3. Cpx: T °C [162] – P (GPa) [24] for peridotite; 4. The same for eclogites; 5. The same for pyroxenites. 6. The same for diamond inclusions; 7 Garnet (monomineral): T °C [167]–P (GPa)[24] for peridotite. 8. T °C [168]–P (GPa)[24] for eclogites. 9. The same for peridotitic diamond inclusions. 10. The same for eclogitic diamond inclusions. 11. Chromite: T °C [170]–P (GPa) [21]; 12. The same for peridotitic diamond inclusions; Ilmenite: 13. T °C [170]–P (GPa)[27]; 14. Opx- Gar: T °C–P (GPa)[165].