

Binary phase diagram files

by Jennifer Wenner, University of Wisconsin Oshkosh, Geology Department, 800 Algoma Blvd, Oshkosh, WI 54901

and Drew Coleman, University of North Carolina, Department of Geosciences, CB #3315, Chapel Hill, NC 27599

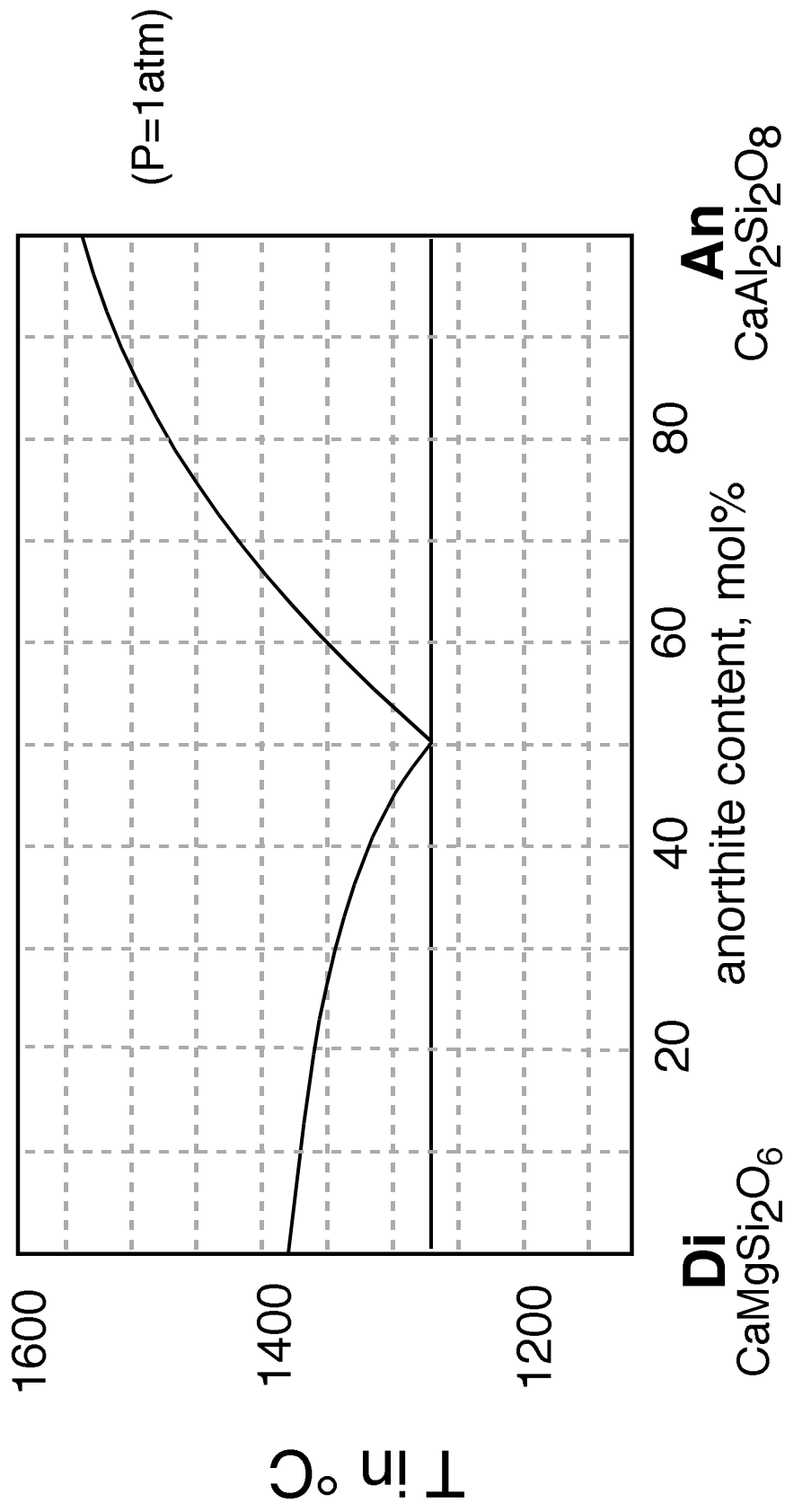
This file contains PDF files of the two-component phase diagrams contained in the phase diagram exercises posted on the Teaching Petrology in the 21st Century website. These are provided so that you may choose the compositions that you would like your students to interpret. Although these are PDF files, they were created in Freehand 10 and Adobe Illustrator. You should be able to open them in either application.

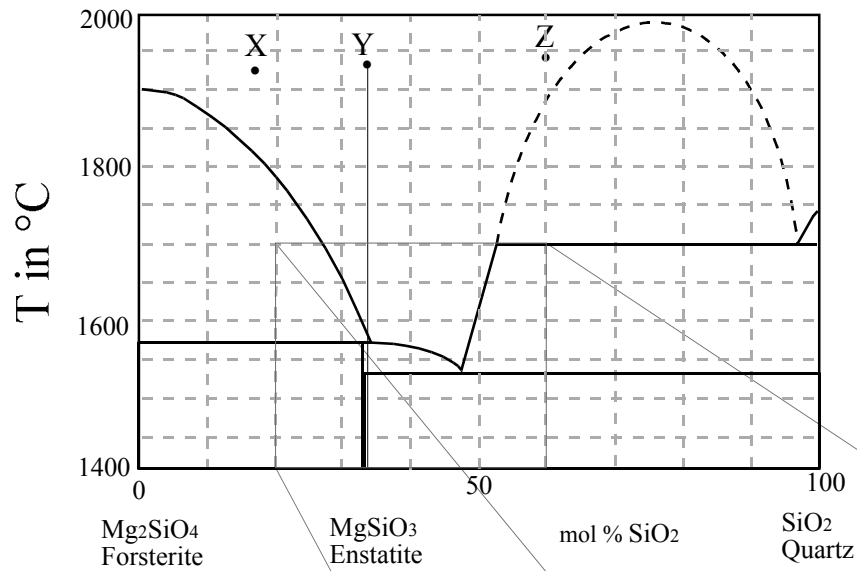
All two component phase diagrams contained in these exercises are based on the phase diagrams found in Chapter 10 of Philpotts (1990).

If you would like the Freehand, Adobe Illustrator or .eps files themselves, you may e-mail Jen Wenner at wenner@uwosh.edu and she will send them to you via e-mail.

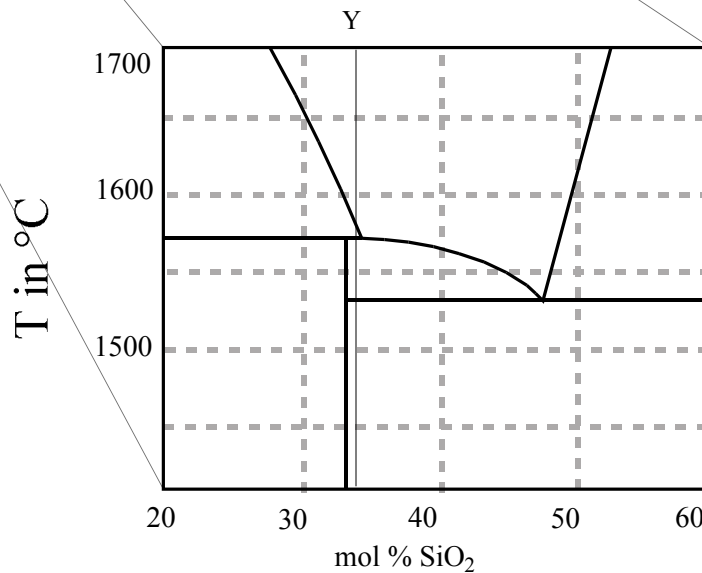
References Cited

Philpotts, A.R. (1990) Principles of Igneous and Metamorphic Petrology. 498 p. Prentice Hall, Englewood Cliffs, NJ.

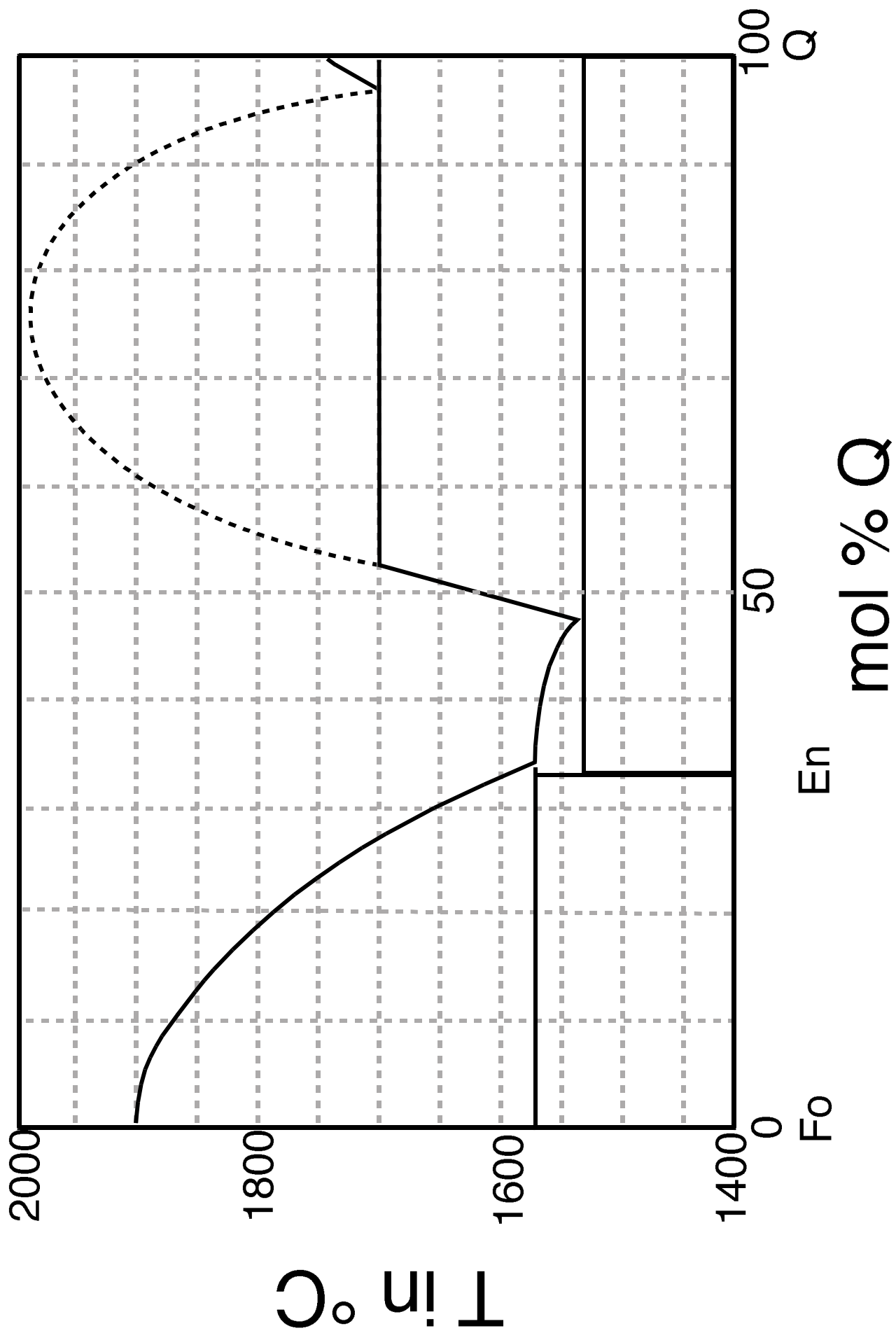


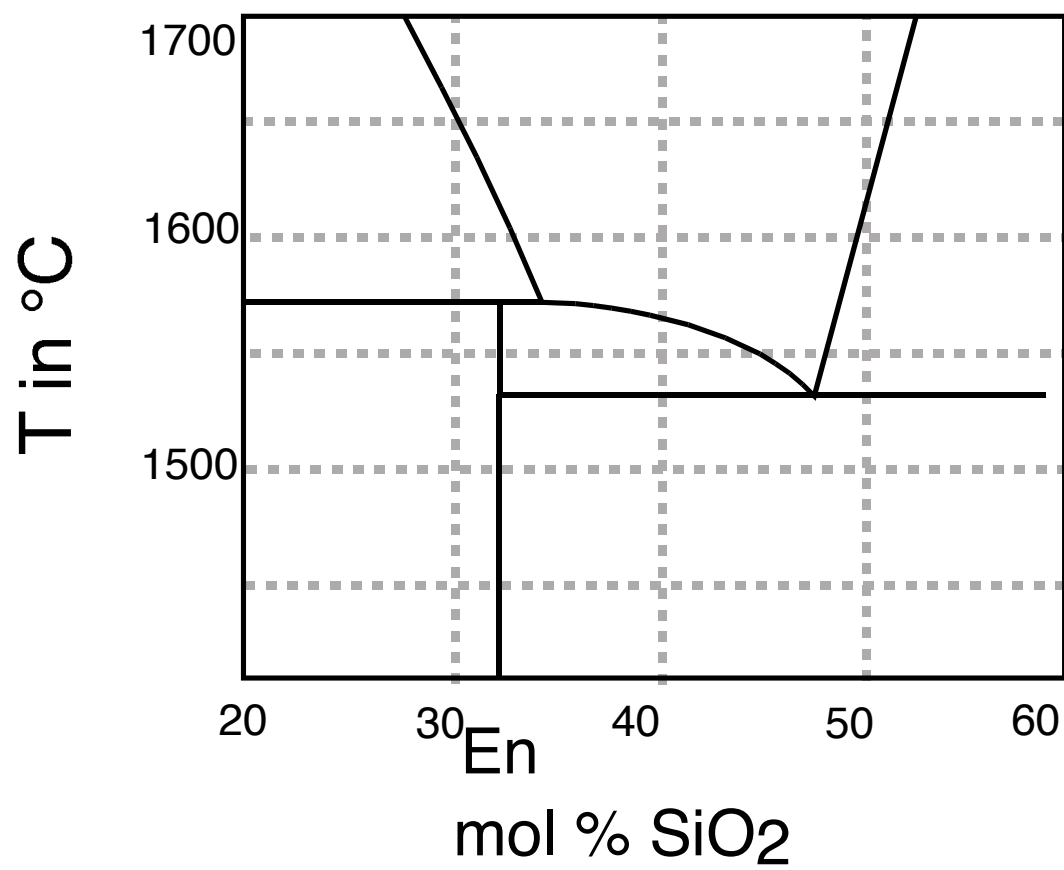


This diagram represents phase relations in the condensed (P=1 atm) system forsterite-quartz. There is an intermediate compound enstatite, which melts incongruently.

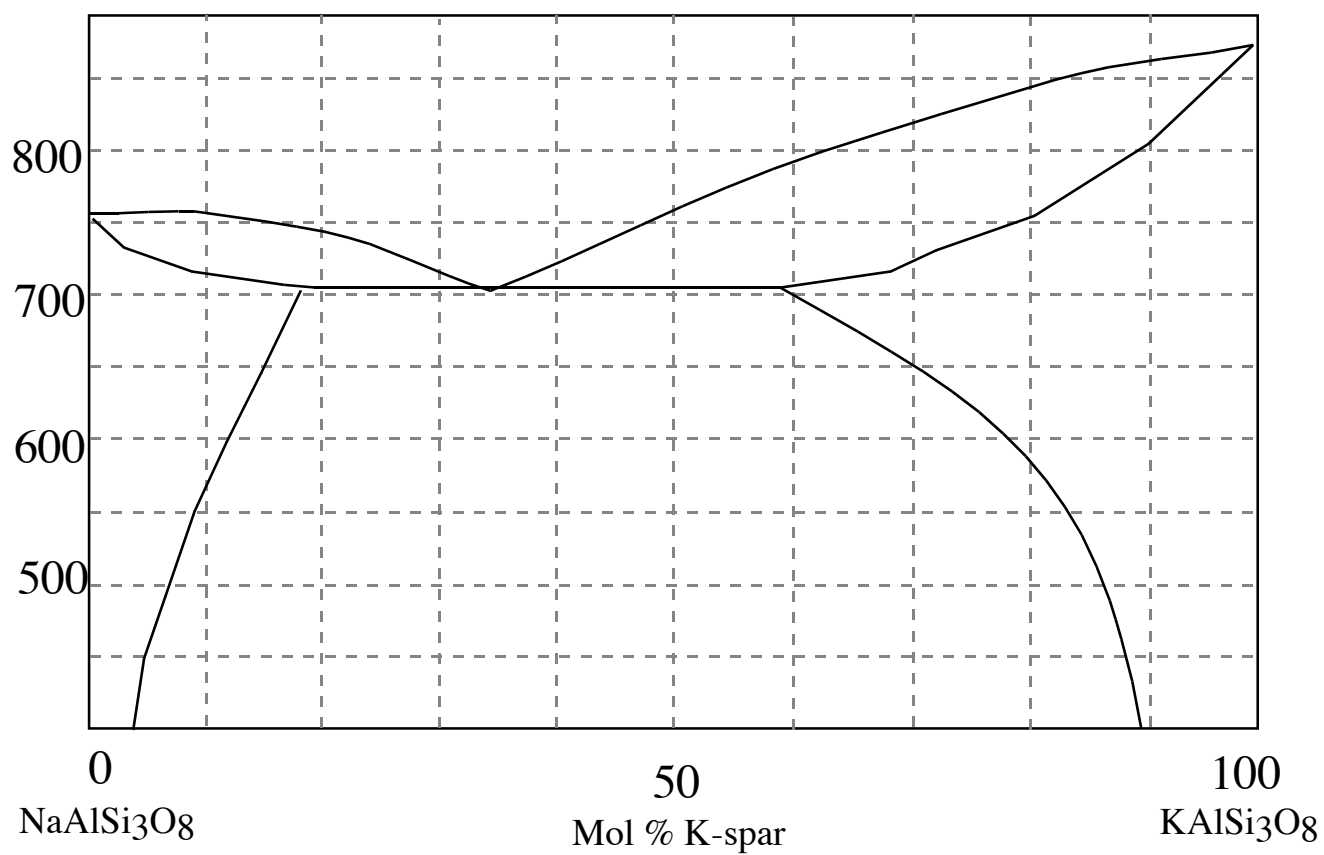


This diagram represents a portion of the diagram above and shows the crystallization path of composition Y.





Alkali Feldspar Diagrams



Alkali Feldspar Diagrams

