

Supplementary Read-Me File: Instructions for Supplementary Table 4

An evolutionary system of mineralogy, Part VII: The evolution of the igneous minerals (> 2500 Ma)

**ROBERT M. HAZEN^{1,*} SHAUNNA M. MORRISON¹,
ANIRUDH PRABHU¹, MICHAEL J. WALTER¹, AND JASON WILLIAMS¹**
¹Earth and Planets Laboratory, Carnegie Institution for Science,
5251 Broad Branch Road NW, Washington DC 20015, U. S. A.

Supplementary Table 4 is an xlsx file that records the frequency of coexistence of the 115 most commonly encountered primary igneous minerals. This file is thus a 115 x 115 half-matrix.

Column A and Row 1 indicate the mineral names, with the 51 most common major phases (defined as > 5 volume percent) listed first in alphabetical order, followed by 64 common accessory phases (< 5 volume percent).

In this matrix, diagonal elements indicate the total number of occurrences of the mineral: thus, matrix element B2 reveals that the mineral *aegirine* occurs in 521 modes in Supplementary Table 3. Off-diagonal matrix elements indicate the number of rocks in which those two minerals coexist. Thus, matrix element C2 reveals that *aegirine* and *albite* coexist in 161 rocks in Supplementary Table 3. Similarly, matrix element F4 indicates that *ankerite* and *analcime* were not reported to coexist in any of the 1850 rocks tabulated in Supplementary Table 3.