

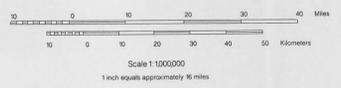
# MAP OF K-Ar AND Ar-Ar AGE DETERMINATIONS IN ARIZONA

by

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### Codes for Material Dated

- |                 |                 |
|-----------------|-----------------|
| am - amphibole  | mi - mica       |
| b - biotite     | o - orthoclase  |
| c - chlorite    | p - plagioclase |
| f - feldspar    | pa - paragonite |
| g - glass       | ph - phlogopite |
| gt - garnet     | px - pyroxene   |
| h - hornblende  | s - sanidine    |
| k - k-feldspar  | sd - spodumene  |
| ka - kaersutite | sr - sericite   |
| m - muscovite   | w - whole rock  |

### EXPLANATION

This map displays all K-Ar and Ar-Ar age determinations in the computerized database listed in Bulletin 197. The age determinations were plotted using specialized computer programs (Reynolds and Trapp, 1986) on a photographically reduced version of the Geologic Map of Arizona (Wilson and others, 1969). The location of each age determination is indicated by a point, accompanied by the age and a one- or two-letter code for the material dated (see list at left). Circled regions on the map enclose areas where the density of age determinations is too high to show each point separately. Ar-Ar age determinations are identified by the letter 'A' preceding the material-dated code. Because the significance of some dates is subject to considerable interpretation, we strongly suggest that the compilation or the original reference be consulted for additional information.

### References

Reynolds, S. J., and Trapp, R. A., 1986, Computerized databases and database-access programs of the Arizona Geological Survey; Arizona Bureau of Geology and Mineral Technology Open-File Report 86-7, 66 p.  
Wilson, E. D., Moore, R. T., and Cooper, J. R., 1969, Geologic map of Arizona; Arizona Bureau of Mines and U.S. Geological Survey, scale 1:500,000.