

Online Resource 4

This file is supplementary to Smithies et al., “Phase-equilibrium geobarometers for silicic rocks based on rhyolite-MELTS. Part 5: Principles for multiple-phase geobarometry with examples from plagioclase + orthopyroxene ± quartz ± magnetite assemblages”, Contributions to Mineralogy and Petrology.

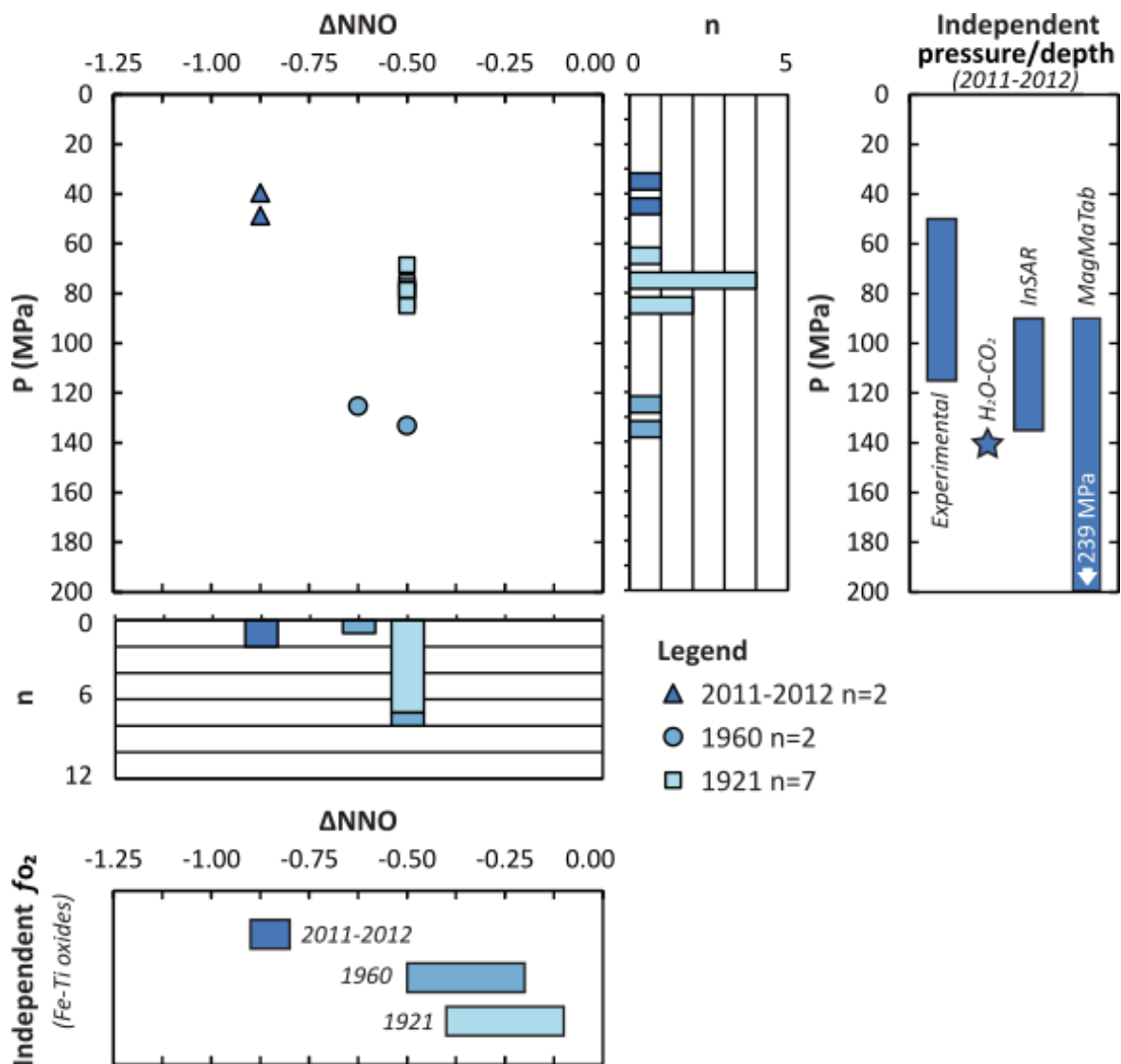


Fig. OR1 As in Figure 8, plagioclase + orthopyroxene + magnetite geobarometry results for PCC compositions, showing both the pressure result and the f_{O_2} at which the three-phase intersection occurred. Results are calculated with a residual temperature threshold of ≤ 8 °C. Our results are compared to independently estimated P for the 2011-2012 eruption (see Table 2) and f_{O_2} estimated from Fe-Ti oxides for each eruption (Table 1) as reported in the literature.

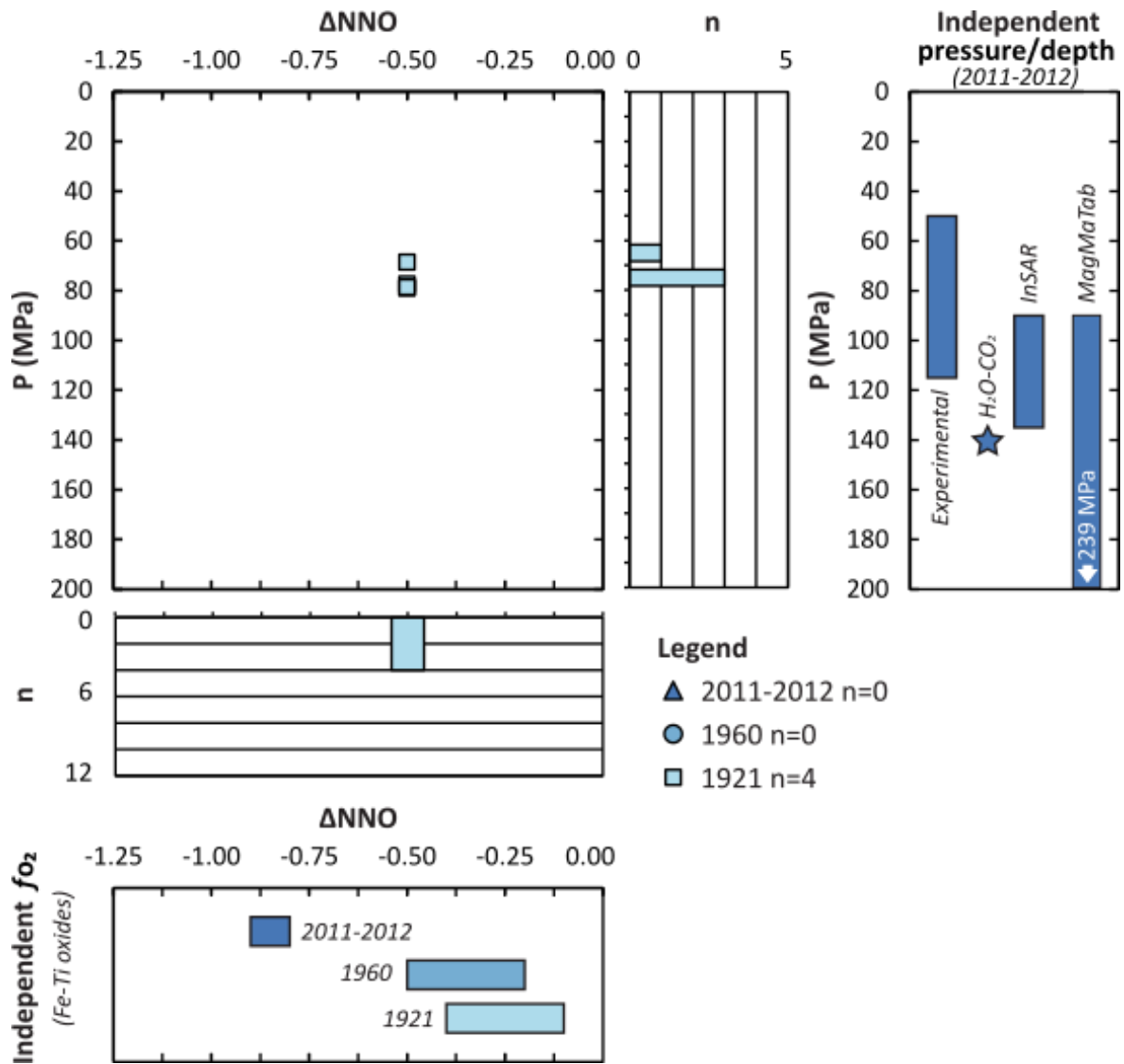


Fig. OR2 As in Figure 8, plagioclase + orthopyroxene + magnetite geobarometry results for PCC compositions, showing both the pressure result and the f_{O_2} at which the three-phase intersection occurred. Results are calculated with a residual temperature threshold of ≤ 5 °C. Our results are compared to independently estimated P for the 2011-2012 eruption (see Table 2) and f_{O_2} estimated from Fe-Ti oxides for each eruption (Table 1) as reported in the literature.