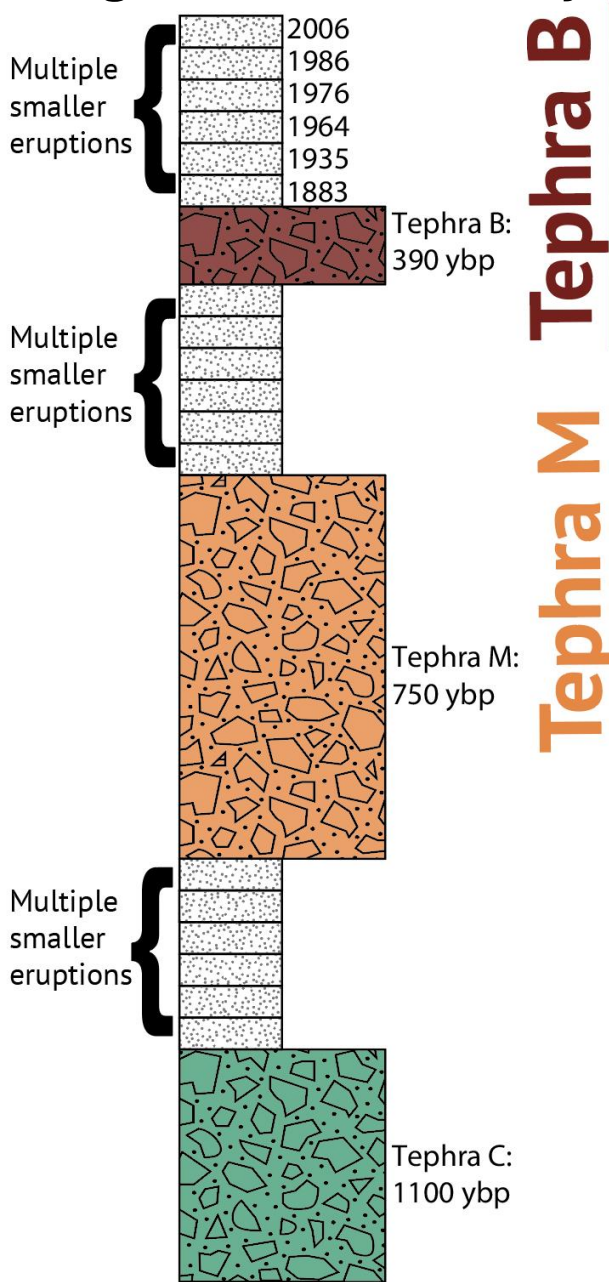


V41-0090 – A. Koleszar, K. Walowski, M. Loewen, R. D’Errico, J. Zehner, J. Farrell

Magma Geochemistry and Eruption Intensity at Augustine Volcano, Alaska



Tephra B

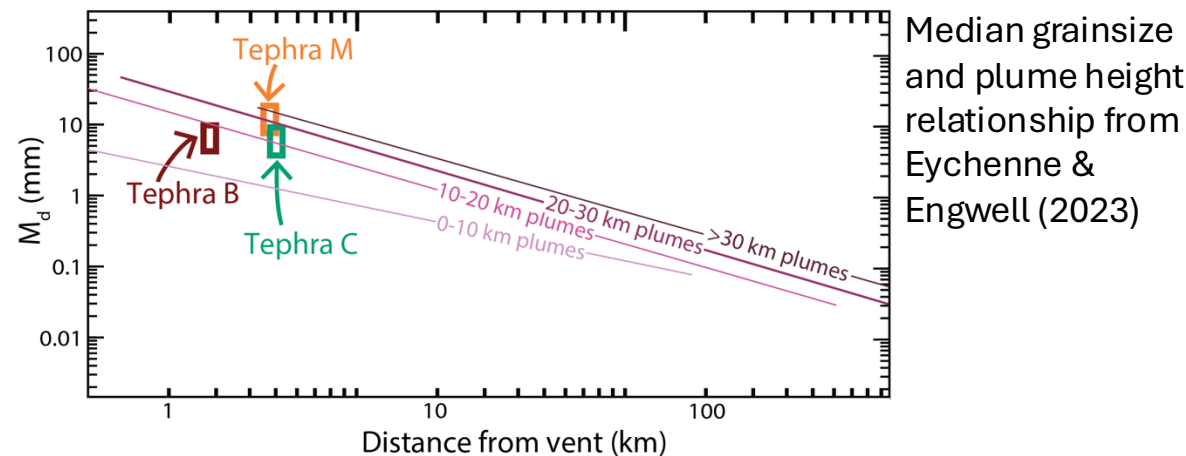
Tephra M



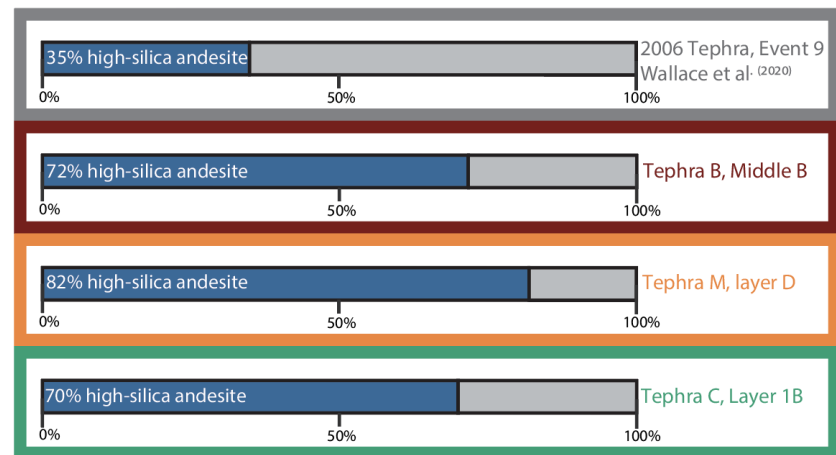
Tephra C



Modern eruptions at Augustine have been small, but tephra reveals evidence for VEI = 5 in the recent past



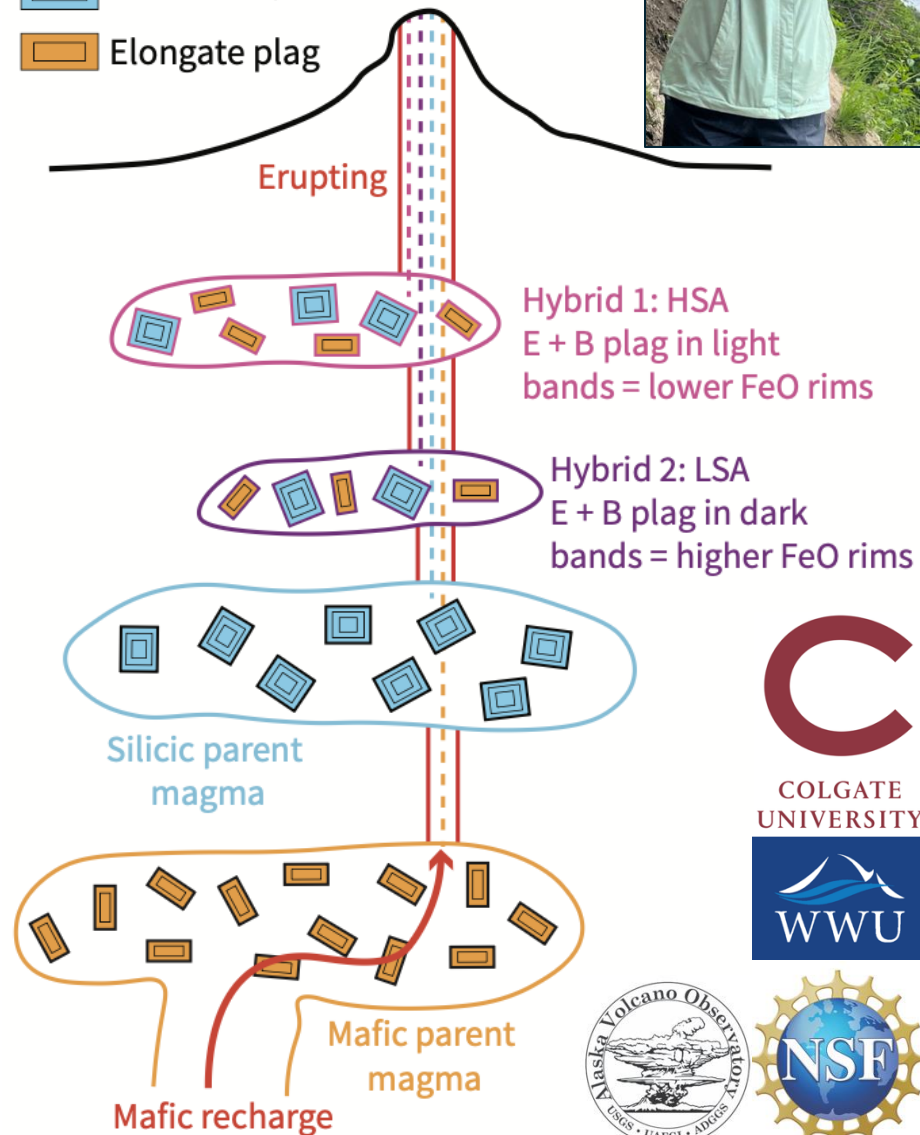
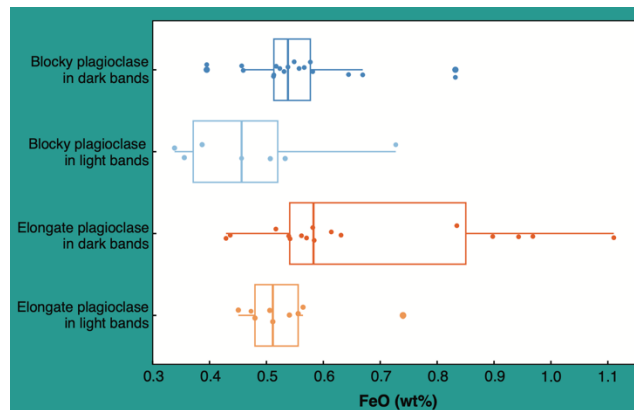
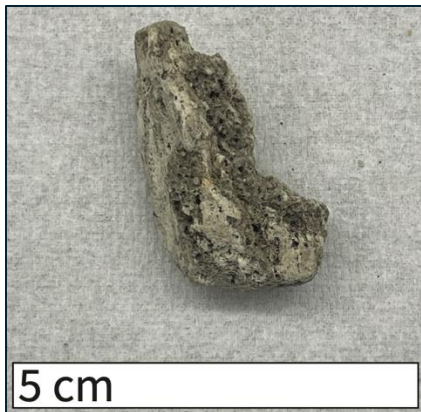
Higher explosivity eruptions at Augustine are fueled by a greater proportion of high silica andesite (HSA)



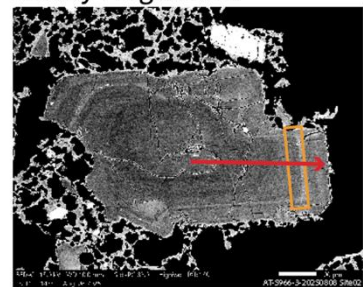
V31C-0072 – R. Berwanger, A. Koleszar, K. Walowski, M. Loewen, J. Zehner

Tracing Magma Mixing through Plagioclase Populations at Augustine Volcano, Alaska

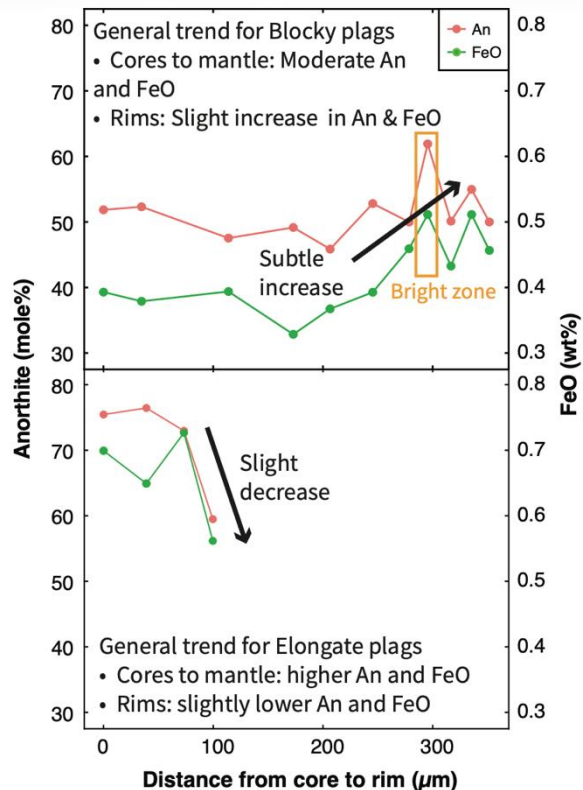
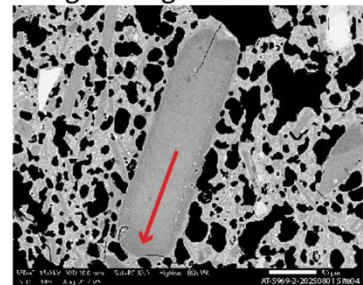
Tephra C



Blocky Plagioclase



Elongate Plagioclase



MIXING produces hybrids:

- HSA and LSA
- Stored separately, produce rims on blocky & elongate plagioclase
- MINGLING of hybrids produces banded pumice at the time of eruption



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