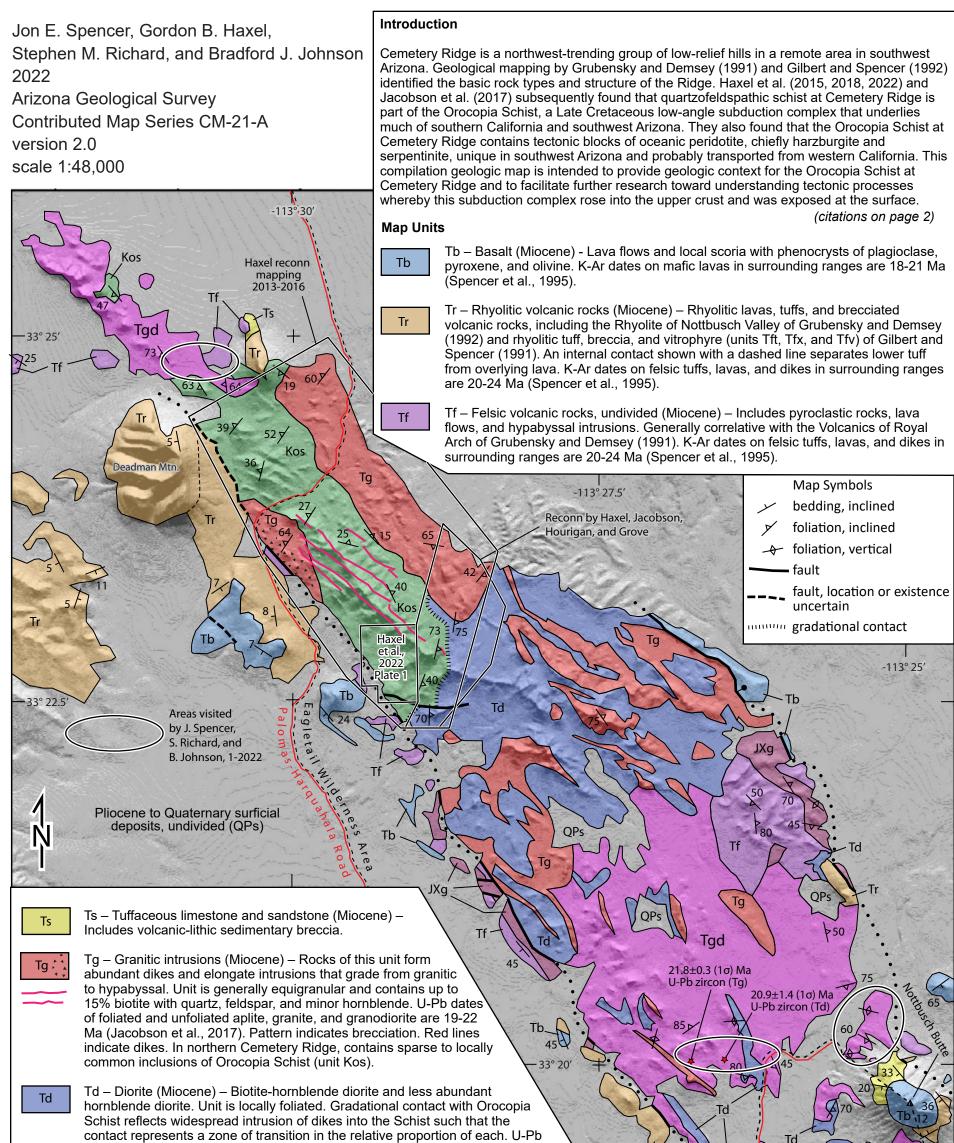
## Compilation Bedrock Geologic Map of Cemetery Ridge, La Paz and Yuma Counties, southwest Arizona



dates of foliated and unfoliated diorite and tonalite are 20-22 Ma (Jacobson et al., 2017).

Tgd

Tgd – Granitic and dioritic rocks, undivided (Miocene to Proterozoic?) – Leucocratic granitoids commonly with crystalloblastic foliation and/or gneissic layering. Also includes (1) dioritic granitoids, (2) quartz-feldspar-biotite schist of uncertain igneous or sedimentary protolith, (3) foliated biotite granite with K-feldspar augen up to 3 cm (JXg?), and (4) hypabyssal felsic intrusions. U-Pb dates are from Spencer et al. (*in review*).



JXg

Kos – Orocopia Schist (uppermost Cretaceous) – Garnet-bearing biotite quartzofeldspathic schist derived from arkosic-wacke turbidite sandstone, with minor amphibolite schist (metabasalt) and ferromanganiferous metachert and siliceous marble (Haxel et al., 2021). Porphyroblasts of bluish-gray to black graphitic plagioclase are a hallmark, characteristic of Orocopia Schist generally. Contains tectonic blocks of peridotite and pyroxenite—harzburgite, olivine orthopyroxenite, and serpentinite after dunite. Metasomatic reactions between ultramafic rocks and host quartzofeldspathic schist have converted some schist to widespread porphyroblastic actinolite-albite gneiss ("spotted gneiss"). Actinolite veins and pods also are common and were first identified by Wilson (1933). This unit is intruded by abundant dioritic and granitic dikes and grades into areas where these units are dominant.



42



85 Tgd

Td

JXg – Porphyritic to megacrystic biotite granite (Jurassic to Paleoproterozoic) – Contains K-feldspar phenocrysts up to 6 cm long.

