

SUPPLEMENTAL DATA_01: Summary of field localities

Field Locality	Formation	Sample Name	Sandstone Modal Comp. (N=x)	Latitude and Longitude	Elevation	Location description
Taos Trough	Sangre de Cristo	SDC-Taos	N=2	35°21'21.48"N/105°26'33.57"W	6002'	~3.0 miles south of Interstate Route 25 on State Route 3; west side of road; north of Villanueva, NM
Jemez Mountains	Abo	ABO-Jemez	N=5	35°43'28.69"N/106°45'36.86"W	5970'	~4.5 miles north from the start of State Route 485 where it branches off from State Route 4; west side of road; west of Jemez Springs and north of the Jemez Pueblo
Zuni Mountains	Abo	ABO-Zuni	N=3	35°00'52.32"N/107°57'59.17"W	7398'	~15.75 miles south on State Route 53/San Rafael Rd. south of Grants, NM and ~4.5 north on Bonita Canyon Road – just south of Gallo Peak. Northwest of Malpais National Monument
Manzano Mountains	Abo	ABO-Manz	N=1	34°26'19.32"N/106°23'42.38"W	6002'	US Route 60; ~11 miles west of Mountainair, NM
Sacramento Mountains	Abo	ABO-Sac	N=3	32°59'00.14"N/105°49'44.90"W	6237'	ENE of Alamogordo and La Luz, NM and ~3.2 miles east from the start of La Luz Canyon Road; samples collected from the south side of the road
Doña Ana Mountains	Hueco	HUE-Doña	N=1	32°30'09.23"N/106°52'41.31"W	4295'	~1.9 miles northeast from the start of Lucero Arroyo on the east side of Interstate Route 25; samples collected from the north side of the arroyo – northwestern DA Mtns
Robledo Mountains	Hueco	HUE-Rob	N=1	32°22'45.55"N/106°52'48.39"W	5535'	West of Doña Ana, NM and ~1.7 miles WNW from Shalem Colony Trail Road along the eastern boundary of the Prehistoric Trackways National Monument – southeastern Robledo Mtns