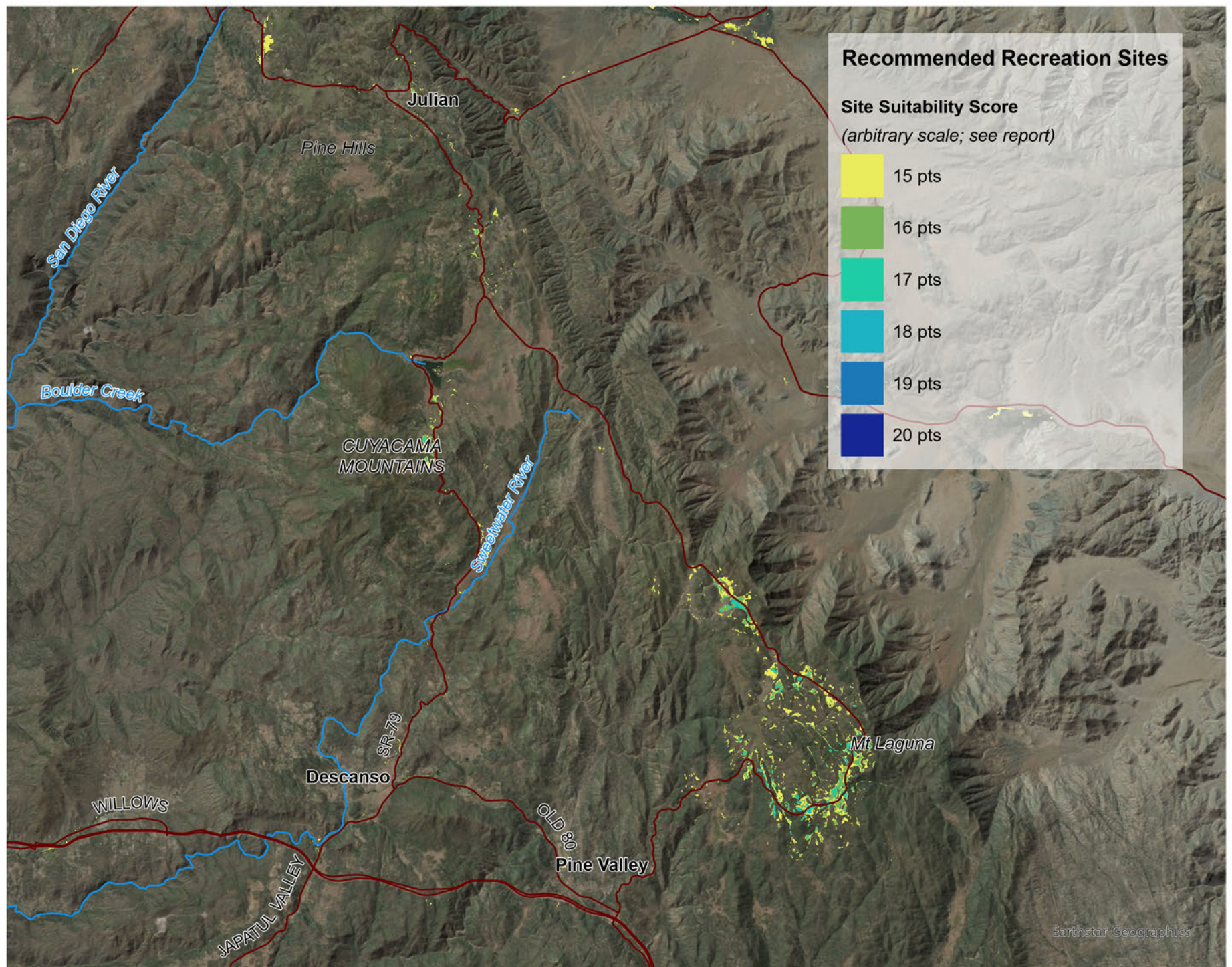


East San Diego County: Mt Laguna and Cuyacama Mountains

0 1.25 2.5 5 7.5 10
Miles

Scale: 1:180,000

Cartography by Aaron Goodman
Data source: UCLA GEOG XL 181A course website,
National Hydrography Dataset

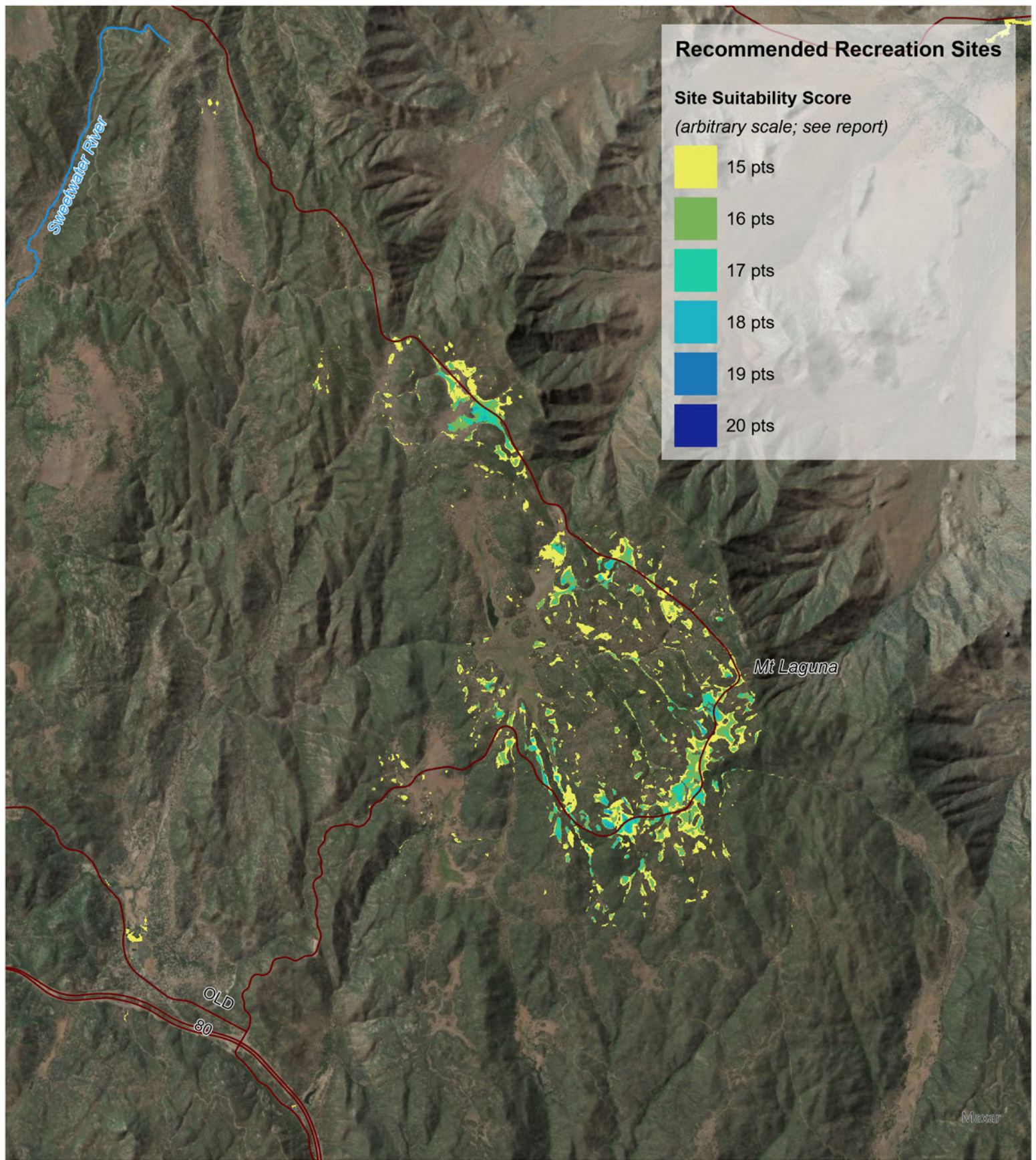


East San Diego County: Mt Laguna - potential campsites

0 1.25 2.5 5 7.5 10
Miles

Scale: 1:180,000

Cartography by Aaron Goodman
Data source: UCLA GEOG XL 181A course website,
National Hydrography Dataset

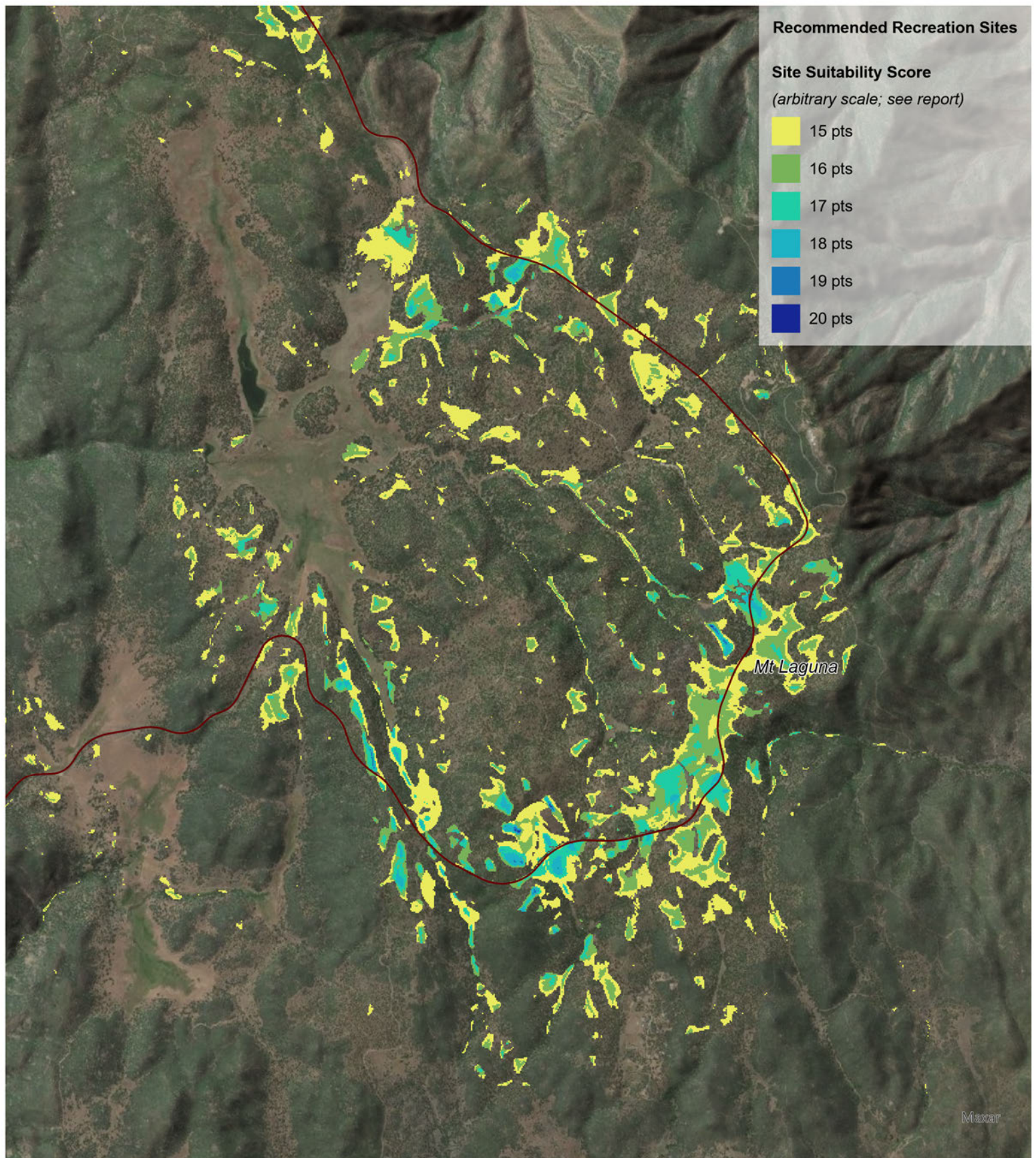


East San Diego County: Mt Laguna - potential campsites (zoom)

Scale: 1:90,000



Cartography by Aaron Goodman
Data source: UCLA GEOG XL 181A course website,
National Hydrography Dataset



East San Diego County: Mt Laguna - potential campsites (zoom 2)

Scale: 1:40,000

0 0.25 0.5 1 1.5 2 Miles

Cartography by Aaron Goodman
Data source: UCLA GEOG XL 181A course website,
National Hydrography Dataset

Aaron Goodman



UCLA GEOG XL 181A

11 November 2022

Unit 7 - Campsite Suitability in Eastern San Diego County, CA

The “Site Suitability Score” used to locate appropriate outdoor recreation sites near Laguna Mountain in San Diego County employed an aggregation of geospatial data related to key considerations in the examined sites’ fits for camping activities. The factors considered included vegetation type, elevation (and thus climate, indirectly), land slope (or levelness), proximity to major roads, and proximity to a water flowline (stream, creek, or river). Public GIS data for each of these considerations were organized natively in raster format, or converted in the case of vegetation types, as well road and flowline Euclidean distances. The data for each of the five geographic considerations were reclassified, or assigned arbitrary points on a scale of 1 to 5 for their camping suitability: highest elevations earned 5 points; the most level land earned 5 points; the locations closest to roads or flowing water earned 5 points. Vegetation type was factored in not on a point scale but in binary fashion: swaths of mixed forests, oak woodlands, or coniferous forests earned a 1. “Raster algebra” was executed involving a sum of each of these factors with the exception of vegetation, which was used as a multiplier to exclude unforested or otherwise unsuitable lands. As the legends indicate in the Mt Laguna maps, recommended sites earned these arbitrary scores of 15 to 20.

There are innumerable geographic factors that could be prepared for the ultimate raster algebra that could refine the site selection even further. With any number of factors, the arithmetic itself can be adjusted as well to account for arbitrary significance assigned to individual factors. Meteorologists, ecologists, or adjacent literature may be the best experts to consult regarding the true suitability of each of these chosen factors. Beyond these, more data to consider include proximity to running water, gas and oil stations, or maybe land parcel adjudication. Presumably much of this land is state-owned but it would be important to know if some private land is not available to SD County Parks and Rec.