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Arizona Aquifer Recharge Suitability Analysis

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Abstract

Aquifer recharge can be either passive or active, and is implemented in a variety of ways. This analysis seeks to identify regions across AZ which are broadly suitable for aquifer recharge projects as a general template for more focused analysis.

Plain Language Summary

Identifying regions in AZ where surface water can be stored long-term as ground water.

1 Introduction

2 Data & Methods

2.1 Elevation

Elevation and elevation derivatives from 30-m NASA SRTM. USGS 3-DEM (10m) product not suitable for full study area analysis due to (1) the large area of missing data in Mexico, and (2), the excessively high spatial resolution (massively increasing computational requirements).

SRTM elevation sinks filled prior to calculating slope and aspect.

Should elevation be directly used in the suitability analysis?

3 Conclusion

References