**RESULTS**

**Effects of drought on soil chemical properties (ammonium/nitrate)**

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**2. Ammonia-oxidizers alpha diversity**

* Sequencing summary (Figure S1: Rarefaction curves of the 3 genes)
* Alpha diversity (Figure 2: Alpha diversity (richness, inverse Simpson, Shannon diversity) of the 3 communities)

**3. Structure and composition of ammonia-oxidizing communities**

* Beta diversity (Fig.3: PCoA plots of Bray-Curtis and/or Weighted)
* Taxonomic composition (Fig.4: Mean relative abundance bar plots)

**4. Differentially abundance of ammonia-oxidizing ASVs in response to drought**

* DAA analysis result (Fig.6: Heatmap of the significant changes ASVs)

**5. Relationship between environmental factors and ammonia-oxidizing community structure (?)**

* Correlation analysis of environmental variables with ammonia-oxidizing community structures (Fig.1)

**6. amoA gene abundances of ammonia-oxidizing communities in response to drought**

* qPCR results (Fig.5)