Metadata Rivas et al. Environmental Sequencing

Table 1. Metadata associated with environmental sequencing of dust samples including methods used for extraction, location of sequencing facility, data pipeline, and primer combinations used to characterize prokaryotes and eukaryotes found in dust.

Title of dataset	Dust environmental sequencing		
LIDI -6 1-44	1. day and 1. day for most in the standard of		
URL of dataset	datarepo.bioinformatics.utep.edu/ getdata?acc=ACIEJDV41U1ZN5I		
Abstract	To study movement of aquatic biota by wind at regional scales we performed tota		
	DNA analysis on collected dust (n=19) from dust events from various locations.		
	Using conserved DNA primers we identified 31,761 eukaryotic OTUs.		
	Carrier of the particular was an entire to the particular of the		
Keywords	NGS, 18S, Environmental Sequencing, Dust		
Dataset lead author	Jonathon Mohl		
Position of data author	Systems Analyst, Staff		
Address of data author	The University of Texas at El Paso, 500 W University, El Paso, TX 79968		
Email address of data	jemohl@utep.edu		
author			
Primary contact person	Elizabeth J. Walsh		
for dataset			
Position of primary	Biological Sciences Professor, Principal Investigator		
contact person			
Address of primary	The University of Texas at El Paso, Department of Biological Sciences, 500 W		
contact person	University, El Paso, TX 79968		
Email address of	ewalsh@utep.edu		
primary contact person	THE LEFT CONTRACTOR OF THE PARTY OF THE PART		
Organization associated	The University of Texas at El Paso		
with the data	publicly available and free to use		
Usage Rights Geographic region	Samples analyzed included Texas, New Mexico, and China		
Geographic coverage	HTSPHS= Hueco Tanks State Park and Historic Site; 31.926927 N, -106.041183		
Geographic coverage	W; 1384 m		
	University of Texas El Paso; 31.76873 N, -106.504067 W; elevation 1170 m		
	White Sands Missile Range; 32.437503 N, -106.168744 W; 1249 m: 32.542026		
	N, -106.194941 W; 1222 m		
	Yellow Lake playa 33.823477 N, -102.459967 W; 1040 m		
	Jornada, LTER 32.608625, -106.730238; 1327 m		
Temporal coverage -	3/28/02		
Begin date			
Temporal coverage -	3/24/16		
End date			
General study design	The purpose of this study was to quantify the transport of aquatic micro-		
	invertebrate resting stages in dust storms. Falling sediment was passively		
	collected from 2011–2016 using standard marble dust collectors (MDCOs),		
	Modified Wilson and Cooke (MWAC) or Big Spring Number Eight (BSNE)		
Methods description	samplers. 0.25 g of dust from each sample was used for analysis. Total DNA was extracted		
wiethous description	from dust samples (n=19) using a PowerSoil kit (MoBio, Carlsbad, CA)		
	from dust samples (n-17) using a rowerson kit (mobio, Caristial, CA)		

	following the manufacturer's protocol.			
Laboratory, field, or	DNA was submitted to MRDNA labs (Shallowater, TX) for 18S tag-encoded			
other analytical	FLX-Titanium amplicon pyrosequencing using the SSU_F04//SSU_R22 primer			
methods	set. Sequencing reads were analyzed using QIIME. Reads were clustered at 99% sequence identity to delineate operational taxonomic units (OTUs). OTUs were then taxonomically assigned using BLAST (Altschul et al. 1990) against the Silva reference (eukaryotic OTUs) (v.128; (Yilmaz et al. 2014).			
Quality control	Some samples were done in replicate to monitor reproducibility.			
Additional information	n Metadata includes; 1) Excel sheet with collection dates, GPS locations; folder			
	containing SSU sequences with i) mapping files that contain barcodes and sample			
	ids; ii) Fasta file that contains the raw sequences; iii) quality file that contains sequence quality data for sample			

Table 2. Date and locality of dust collection and sequences obtained using the 18S primer set.

Column name	Definition	Units
Date	Date samples were collected	Calendar date
Collection Location	Location were the samples were located	GPS
18S Sequences	Next-generation sequences using SSU_F04//SSU_R22	each
	primer sets	