

Electronic Supplemental information

Mitochondrial sequence data reveal population structure within *Pustulosa pustulosa*

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Table S1. Pairwise Φ_{ST} between river drainages

Table S2. Summary measures from tests for demographic expansion

Table S3. Pairwise Φ_{ST} between designated groups

Appendix S1. Samples analyzed at the ND1 locus

Table S1. Pairwise Φ_{ST} (lower diagonal) calculated using the distance method in Arlequin and between *Pustulosa (Cyclonaias) pustulosa sensu lato* grouped by river drainage (ND1 locus) and regional group designations. Negative values were treated as zero (italics) and font indicates low (grey), moderate (black), and high differentiation values (bold black). *P* values and standard deviations are given on the upper diagonal. Group designations and population numbers correspond to Fig. 1.

		I					II	III				IV		V			
River Drainages	Upper Mississippi (1)	Grand/E. Sydenham/Thames (2)	Ohio (3)	Arkansas/Missouri (4)	Lower Mississippi (5)	Red (6)	Pascagoula/Pearl (7)	Sabine (8)	Neches (9)	Trinity (10)	San Jacinto (11)	Brazos (12)	Colorado (13)	Guadalupe (14)	San Antonio (15)	Nueces (16)	
1	*	0.03604+-0.0201	0.02703+-0.0139	0.22523+-0.0365	0.03604+-0.0201	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	
2	0.0141	*	0.00901+-0.0091	0.36036+-0.0542	0.06306+-0.0305	0.01802+-0.0121	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	
3	0.0789	0.0791	*	0.14414+-0.0337	0.00000+-0.0000	0.00901+-0.0091	0.00901+-0.0091	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	
4	0.0119	0.0042	0.0317	*	0.06306+-0.0273	0.18919+-0.0212	0.16216+-0.0353	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00901+-0.0091	0.04505+-0.0203	
5	0.0207	0.0126	0.1060	0.0325	*	0.45045+-0.0489	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	
6	0.0256	0.0206	0.0652	0.0305	<i>-0.0001</i>	*	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	
7	0.2358	0.2418	0.1948	0.0742	0.3019	0.2873	*	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.02703+-0.0139	
8	0.6105	0.6190	0.6196	0.5496	0.6569	0.6685	0.5727	*	0.07207+-0.0264	0.03604+-0.0148	0.11712+-0.0333	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	
9	0.6173	0.6307	0.6480	0.6040	0.6572	0.6575	0.5848	0.054	*	0.00901+-0.0091	0.02703+-0.0194	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	
10	0.4627	0.4598	0.4131	0.3469	0.4861	0.4830	0.3520	0.0763	0.0699	*	0.85586+-0.0281	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	
11	0.4611	0.4606	0.3876	0.3151	0.4892	0.4871	0.3218	0.0762	0.0618	<i>-0.0475</i>	*	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	
12	0.3371	0.3350	0.4697	0.4496	0.4161	0.4167	0.5861	0.8454	0.7561	0.6203	0.6758	*	0.10811+-0.0297	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	
13	0.3197	0.3148	0.3722	0.3755	0.3724	0.3563	0.4954	0.7523	0.7233	0.5979	0.6292	0.0218	*	0.00000+-0.0000	0.00000+-0.0000	0.00000+-0.0000	
14	0.4962	0.4923	0.4831	0.4110	0.5285	0.5213	0.3520	0.5660	0.5913	0.4706	0.4675	0.6179	0.6171	*	0.22523+-0.0339	0.00000+-0.0000	
15	0.4362	0.4311	0.4155	0.3205	0.4763	0.4759	0.2875	0.5549	0.6024	0.4250	0.4166	0.6279	0.6131	0.0065	*	0.05405+-0.0201	
16	0.2647	0.2494	0.2226	0.1400	0.2753	0.2631	0.1729	0.4592	0.5313	0.3528	0.3328	0.4247	0.4505	0.1489	0.0776	*	

Table S2. Summary measures from tests for spatial expansion in Arlequin using ND1 sequence data. Group II was excluded from these analyses owing to low sample sizes.

Group	Sum of Squared deviation	P(Sim. Ssd >= Obs. Ssd)	Harpending's Raggedness index	P(Sim. Rag. >= Obs. Rag.)	TD	P	Fu's	P
I	0.002	0.290	0.012	0.460	-2.230	< 0.001	-25.213	< 0.001
III	0.008	0.010	0.022	0.290	-2.080	0.001	-25.834	< 0.001
IV	0.006	0.850	0.045	0.910	-2.262	0.002	-13.332	0.001
V	0.015	0.030	0.027	0.510	-1.431	0.042	-24.920	< 0.001

Table S3. Pairwise Φ_{ST} calculated using the distance method in Arlequin and between designated groups of *Pustulosa (Cyclonaias) pustulosa* using ND1 sequence data. All comparisons are significant ($P < 0.0001$ + Std. Dev.). Group II was excluded from these analyses owing to low sample size.

Group	I	III	IV	V
I	-	<0.0001+-0.0	<0.0001+-0.0	<0.0001+-0.0
III	0.5496	-	<0.0001+-0.0	<0.0001+-0.0
IV	0.2967	0.6826	-	<0.0001+-0.0
V	0.3867	0.4892	0.5214	-

Appendix S1. Mussel samples showing phylogenetic affinity to *Pustulosa (Cyclonaias) pustulosa* at the mitochondrial ND1 locus, NA = data not available.

GenBank	ID	River	Basin	State/Province	Latitude	Longitude	Group	Dataset
QQ656460	AT026	Village Creek	Neches	Texas	30.261567	-94.159117	III	This study
QQ656461	AT028	Village Creek	Neches	Texas	30.261567	-94.159117	III	This study
QQ656462	AT036	Village Creek	Neches	Texas	30.249038	-94.126587	III	This study
QQ656463	AT039	Village Creek	Neches	Texas	30.249038	-94.126587	III	This study
QQ656464	AT042	Village Creek	Neches	Texas	30.243833	-94.124	III	This study
QQ656465	AT044	Village Creek	Neches	Texas	30.243833	-94.124	III	This study
QQ656466	AT046	Village Creek	Neches	Texas	30.243833	-94.124	III	This study
QQ656467	AT048	Village Creek	Neches	Texas	30.243833	-94.124	III	This study
QQ656468	AT049	Village Creek	Neches	Texas	30.243833	-94.124	III	This study
QQ656469	AT052	Village Creek	Neches	Texas	30.243833	-94.124	III	This study
QQ656470	AT053	Village Creek	Neches	Texas	30.243833	-94.124	III	This study
QQ656471	AT054	Village Creek	Neches	Texas	30.243833	-94.124	III	This study
QQ656472	AT078	Village Slough	Neches	Texas	30.239183	-94.11835	III	This study
QQ656473	AT093	Village Slough	Neches	Texas	30.239183	-94.11835	III	This study
QQ656474	AT098	Neches	Neches	Texas	30.25545	-94.104167	III	This study
QQ656475	AT205	Neches	Neches	Texas	30.26435	-94.110067	III	This study
QQ656476	AT206	Neches	Neches	Texas	30.26435	-94.110067	III	This study
QQ656477	AT207	Neches	Neches	Texas	30.26435	-94.110067	III	This study
QQ656478	AT216	Neches	Neches	Texas	30.211317	-94.101867	III	This study
QQ656479	AT217	Neches	Neches	Texas	30.211317	-94.101867	III	This study
QQ656480	AT218	Neches	Neches	Texas	30.211317	-94.101867	III	This study
QQ656481	AT219	Neches	Neches	Texas	30.211317	-94.101867	III	This study
QQ656482	AT224	Neches	Neches	Texas	30.173733	-94.1176	III	This study
AY158745	UAUC1083	Lake Corpus Christi	Nueces	Texas	NA	NA	V	Serb et al. 2003
AY158752	pust2587	Ouachita	Lower Mississippi	Arkansas	NA	NA	I	Serb et al. 2003
AY158753	pust2591	Ouachita	Lower Mississippi	Arkansas	NA	NA	I	Serb et al. 2003
AY158754	UAUC2590	Mississippi	Upper Mississippi	Missouri	NA	NA	I	Serb et al. 2003
AY158759	UAUC866	St. Croix	Upper Mississippi	Wisconsin	NA	NA	I	Serb et al. 2003
AY158762	pust658	Wolf	Lower Mississippi	Tennessee	NA	NA	I	Serb et al. 2003
AY158763	pust2441	Amite	Lower Mississippi	Louisiana	NA	NA	I	Serb et al. 2003
AY158764	mort1077	Big Cypress Bayou	Red	Texas	NA	NA	I	Serb et al. 2003
AY158766	UAUC2372	Amite	Lower Mississippi	Louisiana	NA	NA	I	Serb et al. 2003
AY158767	pust1019	Mississippi	Upper Mississippi	Illinois	NA	NA	I	Serb et al. 2003
AY158788	QREF405F	Spring	Arkansas	Kansas	NA	NA	I	Serb et al. 2003
QQ656483	BAH001	San Antonio River	Guadalupe	Texas	28.73764	-97.644465	V	This study
QQ656484	BAH004	San Antonio River	Guadalupe	Texas	28.73764	-97.644465	V	This study
QQ656485	BAH006	San Antonio River	Guadalupe	Texas	28.73764	-97.644465	V	This study
QQ656486	BAH012	San Antonio River	Guadalupe	Texas	28.73764	-97.644465	V	This study
QQ656487	BAH012a	San Antonio River	Guadalupe	Texas	28.73764	-97.644465	V	This study
QQ656488	BAH013	San Antonio River	Guadalupe	Texas	28.73764	-97.644465	V	This study
QQ656489	BAH014	San Antonio River	Guadalupe	Texas	28.73764	-97.644465	V	This study
QQ656490	BAH014a	San Antonio River	Guadalupe	Texas	28.73764	-97.644465	V	This study
QQ656491	BAH015	San Antonio River	Guadalupe	Texas	28.73764	-97.644465	V	This study
QQ656492	BAH015a	San Antonio River	Guadalupe	Texas	28.73764	-97.644465	V	This study
QQ656493	BAH016	San Antonio River	Guadalupe	Texas	28.73764	-97.644465	V	This study
QQ656494	BAH042	San Antonio River	Guadalupe	Texas	28.73764	-97.644465	V	This study
QQ656495	BAH043	San Antonio River	Guadalupe	Texas	28.73764	-97.644465	V	This study
QQ656496	BAH044	San Antonio River	Guadalupe	Texas	28.73764	-97.644465	V	This study
QQ656497	BAH045	Guadalupe River	Guadalupe	Texas	28.822267	-97.016892	V	This study
QQ656498	BAH046	San Antonio River	Guadalupe	Texas	28.73764	-97.644465	V	This study
QQ656499	BAH062	Guadalupe River	Guadalupe	Texas	29.150003	-97.316188	V	This study
QQ656500	BAH074	Guadalupe River	Guadalupe	Texas	29.150003	-97.316188	V	This study
QQ656501	BAH086	Guadalupe River	Guadalupe	Texas	28.822267	-97.016892	V	This study
QQ656502	BAH087	Guadalupe River	Guadalupe	Texas	28.822267	-97.016892	V	This study
QQ656503	BAH088	Guadalupe River	Guadalupe	Texas	28.822267	-97.016892	V	This study
QQ656504	BAH089	Guadalupe River	Guadalupe	Texas	28.822267	-97.016892	V	This study
QQ656505	BAH090	Guadalupe River	Guadalupe	Texas	28.822267	-97.016892	V	This study
QQ656506	BAH091	Guadalupe River	Guadalupe	Texas	28.822267	-97.016892	V	This study
QQ656507	BAH092	Guadalupe River	Guadalupe	Texas	28.822267	-97.016892	V	This study
QQ656508	BAH093	Guadalupe River	Guadalupe	Texas	28.822267	-97.016892	V	This study
QQ656509	BAH095	Guadalupe River	Guadalupe	Texas	28.822267	-97.016892	V	This study
QQ656510	BAH118	Guadalupe River	Guadalupe	Texas	28.822267	-97.016892	V	This study
QQ656511	BAH119	Guadalupe River	Guadalupe	Texas	28.822267	-97.016892	V	This study
QQ656512	BAH120	Guadalupe River	Guadalupe	Texas	28.822267	-97.016892	V	This study
QQ656513	BAH124	Guadalupe River	Guadalupe	Texas	28.822267	-97.016892	V	This study
QQ656514	BAH125	Guadalupe River	Guadalupe	Texas	28.822267	-97.016892	V	This study
QQ656515	BAH126	Guadalupe River	Guadalupe	Texas	28.822267	-97.016892	V	This study
QQ656516	BAH131	Guadalupe River	Guadalupe	Texas	28.822267	-97.016892	V	This study
QQ656517	BAH133	Guadalupe River	Guadalupe	Texas	28.822267	-97.016892	V	This study
QQ656518	BAH134	Guadalupe River	Guadalupe	Texas	28.822267	-97.016892	V	This study
QQ656519	BAH137	Guadalupe River	Guadalupe	Texas	28.822267	-97.016892	V	This study
QQ656520	BAH160	Guadalupe River	Guadalupe	Texas	29.488248	-97.439886	V	This study
QQ656521	BAH162	Guadalupe River	Guadalupe	Texas	29.488248	-97.439886	V	This study
QQ656522	BAH163	Guadalupe River	Guadalupe	Texas	29.488248	-97.439886	V	This study
QQ656523	BAH246	San Saba River	Colorado	Texas	31.21329	-98.71937	IV	This study
QQ656524	BAH247	San Saba River	Colorado	Texas	31.21329	-98.71937	IV	This study
QQ656525	BAH251	San Saba River	Colorado	Texas	31.21329	-98.71937	IV	This study
QQ656526	BAH253	San Saba River	Colorado	Texas	31.21329	-98.71937	IV	This study
QQ656527	BAH254	San Saba River	Colorado	Texas	31.21329	-98.71937	IV	This study
QQ656528	BAH255	San Saba River	Colorado	Texas	31.21329	-98.71937	IV	This study

MH362066	QpusStC080	St. Croix	Upper Mississippi	Wisconsin	45.3955278	-92.662783	I	Johnson et al. 2018
MH362067	QpusStC081	St. Croix	Upper Mississippi	Wisconsin	45.3955278	-92.662783	I	Johnson et al. 2018
MH362068	QpusStC082	St. Croix	Upper Mississippi	Wisconsin	45.3955278	-92.662783	I	Johnson et al. 2018
MH362069	QpusOua084	Ouachita	Lower Mississippi	Louisiana	32.9159	-92.08025	I	Johnson et al. 2018
MH362070	QpusOua085	Ouachita	Lower Mississippi	Louisiana	32.9159	-92.08025	I	Johnson et al. 2018
MH362071	QpusOua086	Ouachita	Lower Mississippi	Louisiana	32.9159	-92.08025	I	Johnson et al. 2018
MH362072	QpusOua087	Ouachita	Lower Mississippi	Louisiana	32.9159	-92.08025	I	Johnson et al. 2018
MH362073	QpusOua088	Ouachita	Lower Mississippi	Louisiana	32.9159	-92.08025	I	Johnson et al. 2018
MH362075	QspsOua024	Ouachita	Lower Mississippi	Louisiana	32.9159	-92.08025	I	Johnson et al. 2018
MH362076	QrefPas001	Pascagoula	South Atlantic-Gulf	Mississippi	30.63228	-88.652401	II	Johnson et al. 2018
MH362077	QrefPas002	Pascagoula	South Atlantic-Gulf	Mississippi	30.63228	-88.652401	II	Johnson et al. 2018
MH362078	QrefPas003	Pascagoula	South Atlantic-Gulf	Mississippi	30.63228	-88.652401	II	Johnson et al. 2018
MH362079	QrefPas004	Pascagoula	South Atlantic-Gulf	Mississippi	30.63228	-88.652401	II	Johnson et al. 2018
MH362080	QrefPas005	Pascagoula	South Atlantic-Gulf	Mississippi	30.63228	-88.652401	II	Johnson et al. 2018
MH362081	QrefPrI006	Bogue Chitto	South Atlantic-Gulf	Louisiana	30.62254	-89.87655	II	Johnson et al. 2018
MH362082	QrefPrI007	Bogue Chitto	South Atlantic-Gulf	Louisiana	30.62254	-89.87655	II	Johnson et al. 2018
MH362083	QrefPrI008	Bogue Chitto	South Atlantic-Gulf	Louisiana	30.62254	-89.87655	II	Johnson et al. 2018
MH362084	QrefPrI009	Bogue Chitto	South Atlantic-Gulf	Louisiana	30.62254	-89.87655	II	Johnson et al. 2018
MH362085	QrefPrI010	Bogue Chitto	South Atlantic-Gulf	Louisiana	30.62254	-89.87655	II	Johnson et al. 2018
MK503296	MK503296	San Marcos	Guadalupe	Texas	NA	NA	V	Lopes-Lima et al. 2019
MK503298	MK503298	San Antonio River	Guadalupe	Texas	NA	NA	V	Lopes-Lima et al. 2019
MK503299	MK503299	San Antonio River	Guadalupe	Texas	NA	NA	V	Lopes-Lima et al. 2019
MK503300	MK503300	San Antonio River	Guadalupe	Texas	NA	NA	V	Lopes-Lima et al. 2019
MK503301	MK503301	San Antonio River	Guadalupe	Texas	NA	NA	V	Lopes-Lima et al. 2019
MK503302	MK503302	Guadalupe River	Guadalupe	Texas	NA	NA	V	Lopes-Lima et al. 2019
MK503303	MK503303	Colorado River	Colorado	Texas	NA	NA	V	Lopes-Lima et al. 2019
MK503304	MK503304	Colorado River	Colorado	Texas	NA	NA	V	Lopes-Lima et al. 2019
MK503305	MK503305	Colorado River	Colorado	Texas	NA	NA	V	Lopes-Lima et al. 2019
MK503306	MK503306	Sandy Creek	Neches	Texas	NA	NA	V	Lopes-Lima et al. 2019
MK503308	MK503308	Village Creek	Neches	Texas	NA	NA	V	Lopes-Lima et al. 2019
MK503314	MK503314	Nueces	Nueces	Texas	NA	NA	V	Lopes-Lima et al. 2019
MK503315	MK503315	Nueces	Nueces	Texas	NA	NA	V	Lopes-Lima et al. 2019
MK503319	MK503319	Guadalupe River	Guadalupe	Texas	NA	NA	V	Lopes-Lima et al. 2019
MK503320	MK503320	Guadalupe River	Guadalupe	Texas	NA	NA	V	Lopes-Lima et al. 2019
MK503322	MK503322	Trinity	Trinity	Texas	NA	NA	III	Lopes-Lima et al. 2019
MK503323	MK503323	Trinity	Trinity	Texas	NA	NA	III	Lopes-Lima et al. 2019
MK503324	MK503324	Trinity	Trinity	Texas	NA	NA	III	Lopes-Lima et al. 2019
OQ656591	SRQP01	Sydenham	Great Lakes	Ontario	42.5892	-82.12808	I	This study
OQ656592	SRQP02	Sydenham	Great Lakes	Ontario	42.5892	-82.12808	I	This study
OQ656593	SRQP03	Sydenham	Great Lakes	Ontario	42.5892	-82.12808	I	This study
OQ656594	SRQP04	Sydenham	Great Lakes	Ontario	42.5892	-82.12808	I	This study
OQ656595	SRQP05	Sydenham	Great Lakes	Ontario	42.5892	-82.12808	I	This study
OQ656596	SRQP07	Sydenham	Great Lakes	Ontario	42.5892	-82.12808	I	This study
OQ656597	SRQP11	Sydenham	Great Lakes	Ontario	42.5892	-82.12808	I	This study
OQ656598	SRQP12	Sydenham	Great Lakes	Ontario	42.5892	-82.12808	I	This study
OQ656599	SRQP13	Sydenham	Great Lakes	Ontario	42.5892	-82.12808	I	This study
OQ656600	SRQP14	Sydenham	Great Lakes	Ontario	42.5892	-82.12808	I	This study
OQ656601	SRQP17	Sydenham	Great Lakes	Ontario	42.5892	-82.12808	I	This study
OQ656602	SRQP18	Sydenham	Great Lakes	Ontario	42.5892	-82.12808	I	This study
OQ656603	SRQP19	Sydenham	Great Lakes	Ontario	42.5892	-82.12808	I	This study
OQ656604	SRQP20	Sydenham	Great Lakes	Ontario	42.5892	-82.12808	I	This study
OQ656605	TRQP01	Thames	Great Lakes	Ontario	42.64085	-81.7031	I	This study
OQ656606	TRQP02	Thames	Great Lakes	Ontario	42.64085	-81.7031	I	This study
OQ656607	TRQP03	Thames	Great Lakes	Ontario	42.64085	-81.7031	I	This study
OQ656608	TRQP04	Thames	Great Lakes	Ontario	42.64085	-81.7031	I	This study
OQ656609	TRQP05	Thames	Great Lakes	Ontario	42.64085	-81.7031	I	This study
OQ656610	TRQP06	Thames	Great Lakes	Ontario	42.64085	-81.7031	I	This study
OQ656611	TRQP08	Thames	Great Lakes	Ontario	42.64085	-81.7031	I	This study
OQ656612	TRQP13	Thames	Great Lakes	Ontario	42.64085	-81.7031	I	This study
OQ656613	TRQP14	Thames	Great Lakes	Ontario	42.64085	-81.7031	I	This study
OQ656614	TRQP15	Thames	Great Lakes	Ontario	42.64085	-81.7031	I	This study
OQ656615	ZAM004	Colorado River	Colorado	Texas	29.555491	-96.401673	IV	This study
OQ656616	ZAM008	Colorado River	Colorado	Texas	29.555491	-96.401673	IV	This study
OQ656617	ZAM009	Colorado River	Colorado	Texas	29.555491	-96.401673	IV	This study
OQ656618	ZAM012	Colorado River	Colorado	Texas	29.555491	-96.401673	IV	This study
OQ656619	ZAM016	Colorado River	Colorado	Texas	29.555491	-96.401673	IV	This study
OQ656620	ZAM022	Colorado River	Colorado	Texas	29.555491	-96.401673	IV	This study
OQ656621	ZAM024	Colorado River	Colorado	Texas	29.555491	-96.401673	IV	This study
OQ656622	ZAM026	Colorado River	Colorado	Texas	29.555491	-96.401673	IV	This study
OQ656623	ZAM029	Colorado River	Colorado	Texas	29.555491	-96.401673	IV	This study
OQ656624	ZAM030	Colorado River	Colorado	Texas	29.555491	-96.401673	IV	This study
OQ656625	ZAM040	Colorado River	Colorado	Texas	29.555491	-96.401673	IV	This study