

Table S1. Individual sample information with GenBank Accession numbers.

| <b>River</b> | <b>latitude</b> | <b>longitude</b> | <b>Sample Id's</b> | <b>COX I</b> | <b>Cyt <i>b</i></b> |            |           |            |
|--------------|-----------------|------------------|--------------------|--------------|---------------------|------------|-----------|------------|
| Black: BU1   | 36.417329       | -90.515512       | 789Pv Bla          | KC211105     | KC211181            |            |           |            |
|              |                 |                  | 790Pv Bla          | KC211097     | KC211180            |            |           |            |
|              | BU2             | 36.149845        | -91.045322         | 753Pu Bla    | KC211058            |            |           |            |
|              |                 |                  |                    | 754Pu Bla    | KC211082            |            |           |            |
|              |                 |                  |                    | 755Pu Bla    | KC211078            |            |           |            |
|              |                 |                  |                    | 756Pu Bla    | KC211076            | KC211119   |           |            |
|              |                 |                  |                    | 757Pu Bla    | KC211085            | KC211118   |           |            |
|              |                 |                  |                    | 773Pu Bla    | KC211068            | KC211135   |           |            |
|              | BU3             | 35.774981        | -91.282745         | 791Pv Bla    | KC211100            | KC211163   |           |            |
|              | BU3             | 35.737374        | -91.332924         | 792Pv Bla    | KC211112            | KC211161   |           |            |
| Current: CU1 | 36.488091       | -90.774729       | 783Pu Cur          | KC211083     | KC211138            |            |           |            |
|              |                 |                  | 784Pu Cur          | KC211095     | KC211144            |            |           |            |
|              |                 |                  | 785Pu Cur          | KC211084     | KC211139            |            |           |            |
|              |                 |                  | CU2                | 36.386404    | -90.768535          | 804Pv Cur  | KC211102  | KC211162   |
|              |                 |                  |                    |              |                     | 805Pv Cur  | KC211115  | KC211176   |
|              |                 |                  |                    |              |                     | 1-20Pu Cur | KC211089  |            |
|              |                 |                  | CU3                | 36.382803    | -90.770700          | 2-20Pu Cur | KC211088  |            |
|              |                 |                  |                    |              |                     | 3-20Pu Cur | KC211081  |            |
|              |                 |                  |                    |              |                     | 4-20Pu Cur | KC211086  |            |
|              |                 |                  |                    |              |                     | 5-20Pu Cur | KC211092  |            |
|              |                 |                  |                    |              |                     | 6-20Pu Cur | KC211075  |            |
|              |                 |                  |                    |              |                     | 7-20Pu Cur | KC211090  |            |
|              |                 |                  |                    |              |                     | 8-20Pu Cur | KC211067  |            |
|              |                 |                  |                    |              |                     | 9-20Pu Cur | KC211087  |            |
|              |                 |                  |                    |              |                     | 1-7Pu Cur  |           | KC211141   |
|              |                 |                  |                    |              |                     | 2-7Pu Cur  |           | KC211140   |
|              |                 |                  |                    |              |                     | 3-7Pu Cur  |           | KC211134   |
|              |                 |                  |                    |              |                     | 4-7Pu Cur  |           | KC211157   |
|              |                 |                  |                    |              |                     | 5-7Pu Cur  |           | KC211156   |
|              |                 |                  |                    |              |                     | CurrentAPu |           | KC211143   |
|              |                 |                  |                    |              |                     | CurrentBPu |           | KC211142   |
|              |                 |                  |                    |              |                     | Pu Cur     |           | KC211155   |
|              |                 |                  |                    |              |                     | CU4        | 36.356295 | -90.786623 |
|              |                 |                  | 772Pu Cur          | KC211071     | KC211148            |            |           |            |
|              |                 |                  | 780Pu Cur          | KC211077     | KC211150            |            |           |            |
|              |                 |                  | 796Pu Cur          | KC211074     | KC211151            |            |           |            |
|              |                 |                  | CU5                | 36.356100    | -90.787286          | 781Pu Cur  | KC211094  | KC211153   |
| 782Pu Cur    | KC211073        | KC211154         |                    |              |                     |            |           |            |
| CU6          | 36.307092       | -90.852761       | 761Pv Cur          | KC211098     | KC211174            |            |           |            |

|                |        |           |            |            |          |          |
|----------------|--------|-----------|------------|------------|----------|----------|
|                | CU7    | 36.277710 | -90.875074 | 777Pu Cur  | KC211072 | KC211149 |
|                |        |           |            | 778Pu Cur  | KC211069 | KC211146 |
|                |        |           |            | 779Pu Cur  | KC211070 | KC211145 |
|                | CU8    | 36.277028 | -90.884867 | 758Pv Cur  | KC211116 | KC211172 |
|                |        |           |            | 760Pu Cur  |          | KC211117 |
| Spring:        | SP1    | 36.240426 | -91.236932 | 786Pu Spr  | KC211080 | KC211158 |
|                | SP2    | 36.172992 | -91.145909 | 787Pu Spr  | KC211091 | KC211147 |
| Strawberry:    | ST1    | 35.922792 | -91.253011 | 788Pu Stra | KC211079 | KC211152 |
|                |        |           |            | 806Pv Stra | KC211104 | KC211177 |
|                |        |           |            | 807Pv Stra | KC211107 | KC211178 |
| Lake Ouachita: | LkOua1 | 34.627673 | -93.552618 | 814Pu LOua |          | KC211130 |
|                |        |           |            | 815Pu LOua |          | KC211137 |
|                |        |           |            | 816Pu LOua |          | KC211133 |
|                |        |           |            | 817Pu LOua | KC211065 | KC211131 |
|                |        |           |            | 818Pu LOua | KC211066 | KC211136 |
|                |        |           |            | 835Pu LOua |          | KC211129 |
|                |        |           |            | 836Pu LOua |          | KC211132 |
| Ouachita:      | OU1    | 34.147464 | -93.054519 | 774Pu Oua  | KC211061 | KC211127 |
|                | OU2    | 34.118752 | -93.044145 | 808Pv Oua  | KC211099 | KC211175 |
|                | OU3    | 33.818026 | -92.898459 | 771Pu Oua  | KC211064 | KC211124 |
|                | OU4    | 33.813063 | -92.894921 | 798Pu Oua  | KC211060 | KC211128 |
|                | OU5    | 33.811348 | -92.893605 | 775Pu Oua  | KC211062 | KC211125 |
|                |        |           |            | 797Pu Oua  | KC211063 | KC211120 |
|                | OU6    | 33.628116 | -92.839350 | 776Pu Oua  | KC211059 | KC211126 |
|                |        |           |            | 799Pu Oua  | KC211093 | KC211122 |
|                |        |           |            | 800Pu Oua  | KC211096 | KC211121 |
|                | OU7    | 33.612696 | -92.828696 | 795Pv Oua  | KC211110 | KC211167 |
| Saline:        | SA1    | 34.369190 | -92.607522 | 803Pv Sal  | KC211101 | KC211168 |
|                | SA2    | 34.212014 | -92.548927 | 763Pv Sal  | KC211109 | KC211165 |
|                |        |           |            | 764Pv Sal  | KC211106 | KC211173 |
|                |        |           |            | 765Pv Sal  | KC211103 | KC211166 |
|                | SA3    | 33.618315 | -92.001214 | 748Pv Sal  |          | KC211159 |
|                |        |           |            | 749Pv Sal  |          | KC211160 |
|                |        |           |            | 750Pv Sal  |          | KC211169 |
|                | SA4    | 33.603368 | -92.006571 | 801Pv Sal  | KC211108 | KC211171 |
|                | SA5    | 33.600650 | -92.004964 | 793Pv Sal  | KC211114 | KC211179 |
|                |        |           |            | 794Pv Sal  | KC211113 | KC211164 |
|                |        |           |            | 802Pv Sal  | KC211111 | KC211170 |

GenBank accessed sequences

AR: Current

*P. uranidea* JN028157  
*P. uranidea* JN028158  
*P. uranidea* JN028159

|            |              |           |                      |                       |                       |          |  |
|------------|--------------|-----------|----------------------|-----------------------|-----------------------|----------|--|
| AR: White  |              |           |                      | <i>P. uranidea</i>    | JN028160              |          |  |
|            |              |           |                      | <i>P. uranidea</i>    | JN028161              |          |  |
|            |              |           |                      | <i>P. uranidea</i>    | JN028162              |          |  |
|            |              |           |                      | <i>P. uranidea</i>    | JN028163              |          |  |
|            |              |           |                      | <i>P. uranidea</i>    | JN028164              |          |  |
|            |              |           |                      | <i>P. uranidea</i>    | JN028165              |          |  |
|            |              |           |                      | <i>P. uranidea</i>    |                       | AF386577 |  |
|            |              |           |                      | <i>P. tanasi</i>      | JN028156              |          |  |
|            |              |           |                      | <i>P. tanasi</i>      |                       | HQ128276 |  |
|            |              |           |                      | <i>P. tanasi</i>      |                       | AF386578 |  |
| LA         |              |           |                      | <i>P. vigil</i>       | JN028171              |          |  |
|            |              |           |                      | <i>P. vigil</i>       | JN028172              |          |  |
|            |              |           |                      | <i>P. vigil</i>       | JN028173              |          |  |
|            |              |           |                      | <i>P. vigil</i>       | JN028174              |          |  |
|            |              |           |                      | <i>P. vigil</i>       | JN028175              |          |  |
|            |              |           |                      | <i>P. vigil</i>       | JN028176              |          |  |
|            |              |           |                      | <i>P. vigil</i>       | JN028177              |          |  |
|            |              |           |                      | <i>P. vigil</i>       | JN028179              |          |  |
|            |              |           |                      | <i>P. vigil</i>       | JN028178              |          |  |
|            |              |           |                      | <i>P. vigil</i>       | JN028166              |          |  |
| MS<br>FLA  |              |           |                      | <i>P. vigil</i>       | JN028167              |          |  |
|            |              |           |                      | <i>P. vigil</i>       | JN028168              |          |  |
|            |              |           |                      | <i>P. vigil</i>       | JN028169              |          |  |
| AR: Saline |              |           |                      | <i>P. vigil</i>       | JN028170              |          |  |
|            |              |           |                      | <i>P. vigil</i>       |                       | AF386569 |  |
|            |              |           |                      | <i>P. vigil</i>       |                       | AF386570 |  |
|            |              |           |                      | <i>P. caprodes</i>    |                       | KC211182 |  |
|            | AR: IL Bayou | 35.413502 | -93.130202           |                       | <i>P. caprodes</i>    | JN027913 |  |
|            |              |           |                      |                       | <i>P. caprodes</i>    | JN027921 |  |
|            |              |           |                      |                       | <i>P. caprodes</i>    | JN027925 |  |
|            |              |           |                      |                       | <i>P. caprodes</i>    | JN027942 |  |
|            |              |           |                      |                       | <i>P. macrolepida</i> | JN028040 |  |
|            |              |           |                      |                       | <i>P. macrolepida</i> | JN028041 |  |
|            |              |           |                      | <i>P. macrolepida</i> |                       | DQ493494 |  |
|            |              |           |                      | <i>P. macrolepida</i> |                       | DQ493495 |  |
|            |              |           |                      | <i>P. lenticula</i>   | JN028017              |          |  |
|            |              |           |                      | <i>P. lenticula</i>   | JN028018              |          |  |
|            |              |           | <i>P. lenticula</i>  | HQ557439              |                       |          |  |
|            |              |           | <i>P. lenticula</i>  | HQ557440              |                       |          |  |
|            |              |           | <i>P. lenticula</i>  | HQ557550              |                       |          |  |
|            |              |           | <i>P. lenticula</i>  |                       | AF386585              |          |  |
|            |              |           | <i>P. lenticula</i>  |                       | AF386586              |          |  |
|            |              |           | <i>P. brevicauda</i> | HQ557555              |                       |          |  |

|                      |          |          |
|----------------------|----------|----------|
| <i>P. brevicauda</i> |          | AF386567 |
| <i>P. aurora</i>     | JN027892 |          |
| <i>P. aurora</i>     | JN027893 |          |
| <i>P. aurora</i>     | JN027894 |          |
| <i>P. aurora</i>     |          | AF386566 |
| <i>P. copelandi</i>  | JN027967 |          |
| <i>P. copelandi</i>  | JN027968 |          |
| <i>P. copelandi</i>  | JN027969 |          |
| <i>P. copelandi</i>  | JN027970 |          |
| <i>P. copelandi</i>  | JN027971 |          |
| <i>P. copelandi</i>  | JN027972 |          |
| <i>P. copelandi</i>  | JN027973 |          |
| <i>P. copelandi</i>  | JN027974 |          |
| <i>P. copelandi</i>  | JN027975 |          |
| <i>P. copelandi</i>  | JN027976 |          |
| <i>P. copelandi</i>  | EU524250 |          |
| <i>P. copelandi</i>  | EU524251 |          |
| <i>P. copelandi</i>  | EU524252 |          |
| <i>P. copelandi</i>  |          | AY374283 |
| <i>P. copelandi</i>  |          | AF386568 |
| <i>P. maculata</i>   | JN028044 |          |
| <i>P. maculata</i>   | JN028045 |          |
| <i>P. shumardi</i>   | JN028130 |          |
| <i>P. shumardi</i>   | JN028131 |          |
| <i>P. shumardi</i>   | JN028132 |          |
| <i>P. shumardi</i>   | JN028133 |          |
| <i>P. shumardi</i>   | JN028134 |          |
| <i>P. shumardi</i>   | JN028135 |          |
| <i>P. shumardi</i>   | JN028136 |          |
| <i>P. shumardi</i>   | JN028137 |          |
| <i>P. shumardi</i>   | EU524260 |          |
| <i>P. shumardi</i>   |          | AF386571 |
| <i>P. shumardi</i>   |          | AF386572 |
| <i>P. antesella</i>  | JN027878 |          |
| <i>P. antesella</i>  |          | AF386587 |
| <i>P. suttkusi</i>   |          | DQ493496 |
| <i>P. suttkusi</i>   |          | DQ493497 |
| <i>P. suttkusi</i>   |          | AF386551 |

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