Digital appendix 1

Specimens deposited in museum collections were compared to specimens collected at new locations in Costa Rica and Panama in 1997, 2009, 2012 and 2019. INBio: Instituto Nacional de Biodiversidad de Costa Rica, now Museo Nacional de Costa Rica. STRI: Dry Collection, Smithsonian Tropical Research Institute, Panamá. MIUP: Museo de Invertebrados “G.B. Fairchild”, Universidad de Panamá. UNAM: Instituto de Biología, Universidad Nacional Autónoma de México. MZUCR: Museo de Zoología, Universidad de Costa Rica. BMNH: British Museum of Natural History.

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| **Species** | **Sex** | **Specimen type** | **Collection tag** | **Determined** | **Specimen Number** | **Country** | **Collection** |
| *Pi. reclusus* | Female | Paratype | Est. Maritza, 600 m, lado O Vol. Orosi, Prov. Guanacaste, Costa Rica, M. Reyes., 27 feb-10 mar 1992, L- N 326900\_373000 | Harry Brailovsky | INBIOCRI000429969 | Costa Rica | INBio |
| *Pi. reclusus* | Male | Paratype | Est. Maritza, 600 m, lado O Vol. Orosi, Prov. Guanacaste, Costa Rica, M. Reyes., 27 feb-10 mar 1992, L- N 326900\_373000 | Harry Brailovsky | INBIOCRI000429970 | Costa Rica | INBio |
| *Pi. reclusus* | Female | Specimen | Est. Murciélago, Prov. Guana, COSTA RICA. 80 m. 4-22 AGO 1994, C. Cano, L N 320300\_347200 # 3167 | Thomas James Lewis | INBIOCRI002015483 | Costa Rica | INBio |
| *Pi. reclusus* | Female | Specimen | P.N. Barra Honda, Prov. Guana, COSTA RICA. 100 m. Oct 1994, M. Reyes, L N 239000\_386000 # 3291 | Thomas James Lewis | INBIOCRI002119669 | Costa Rica | INBio |
| *Pi. reclusus* | Male | Specimen | P.N. Barra Honda, Prov. Guana, COSTA RICA. 100 m. Oct 1994, M. Reyes, L N 239000\_386000 # 3291 | Thomas James Lewis | INBIOCRI002119670 | Costa Rica | INBio |
| *Pi. reclusus* | Male | Specimen | P.N. Barra Honda, Prov. Guana, COSTA RICA. 100 m. Oct 1994, M. Reyes, L N 239000\_386000 # 3291 | Thomas James Lewis | INBIOCRI002119671 | Costa Rica | INBio |
| *Pi. reclusus* | Male | Specimen | Costa Rica, Palo Verde, ii-1997, J. Coronado | Harry Brailovsky |  | Costa Rica | UNAM |
| *Pi. reclusus* | Female | Specimen | Costa Rica, Palo Verde, ii-1997, J. Coronado | Harry Brailovsky |  | Costa Rica | UNAM |
| *Pi. reclusus* | Male | Specimen | Costa Rica, Guanacaste, Bagaces, Palo Verde, 10 msnm, vi-2012. S. Amador | James Coronado |  | Costa Rica | MZUCR |
| *Pi. reclusus* | Female | Specimen | Costa Rica, Guanacaste, Bagaces, Palo Verde, 10 msnm, vi-2012. S. Amador | James Coronado |  | Costa Rica | MZUCR |
| *Pi. reclusus* | Female | Specimen | Costa Rica, Guanacaste, Bagaces, Palo Verde, 10° 20´W & 89° 19´ vi-2012. S. Amador | James Coronado |  | Costa Rica | MZUCR |
| *Pi. reclusus* | Male | Specimen | Panamá, Ciudad de Panamá, Parque Natural Metropolitano,  2-v-2019, V. Orribarra | James Coronado |  | Panamá | STRI |
| *Pi. reclusus* | Female | Specimen | Panamá, Ciudad de Panamá, Parque Natural Metropolitano,  2-v-2019. V. Orribarra | James Coronado |  | Panamá | STRI |
| *Pi. reclusus \** | Male | Specimen | Road K1- K1a, Fort Kobbe, C.Z., 15.vi.1975. Col. H.D. Engleman | Dodge Engleman |  | Panamá | STRI |
| *Pi. reclusus \** | Female | Specimen | Road K1- K1a, Fort Kobbe, C.Z., 15.vi.1975. Col. H.D. Engleman | Dodge Engleman |  | Panamá | STRI |
| *Pi. reclusus \** | Female | Specimen | Road K1- K1a, Fort Kobbe, C.Z., 15.vi.1975. Col. H.D. Engleman | Dodge Engleman |  | Panamá | MIUP |
| *Pi. reclusus\** | Male | Picture of specimen | Punta Vacamonte 8° 52’ N, 79° 40’ W. Pan. 9 Sep. 72. Col: D. Engleman. | W. R. Dolling | BM1973-607 | Panamá | BMNH |
| *Pi. chontalensis* | Female | Picture of specimen | V. de Chiriquí, 2-3000 ft. Champion. Distant Coll. 1911-383 | James Coronado |  | Panamá | BMNH |
| *Pi. chontalensis* | Male | Specimen | Panamá, Chiriquí, David, Jardín Botánico Campus UNACHI, ix-2009. I. Martínez e I. Santos | James Coronado |  | Panamá | MIUP |
| *Pi. chontalensis* | Female | Specimen | Panamá, Chiriquí, David, Jardín Botánico Campus UNACHI, ix-2009. I. Martínez e I. Santos | James Coronado |  | Panamá | MIUP |
| *Pi. chontalensis* | Male | Specimen | Panamá, Chiriquí, David, Río Platanal, 4-v-2019. V. Orribarra. | James Coronado |  | Panamá | STRI |
| *Pi. chontalensis* | Female | Specimen | Panamá, Chiriquí, David, Río Platanal, 4-v-2019. V. Orribarra. | James Coronado |  | Panamá | STRI |

\*Originally identified as *Capaneus chontalensis* and now determined as *Pi. reclusus* by James Coronado.