**Table S1:**

**Localities of *Macrophyllum macrophyllum* gleaned from the literature and used to produce the map in Figure 1.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Locality** | **State/Department** | **Country** | **Coordinates** | **Decimal Latitude** | **Decimal longitude** | **Source** |
| San Ignacio | Misiones | Argentina | 27°16'S, 55°32'W | -27.2667 | -55.5333 | Fornes, Delpietro & Massoia (1969) |
| Cita Ranch | Cayo | Belize | ca. 17°12'N, 88°35'W | 17.2 | -88.5833 | FMNH\_database |
| Campamento El Trapiche | Beni | Bolivia | 14°48'S, 66°19'W | -14.8 | -66.3167 | Anderson (1997) |
| río Baures, mouth | Beni | Bolivia | 12°30'S, 64°18'W | -12.5 | -64.3 | Anderson (1997) |
| Tumichucua | Beni | Bolivia | 11°13'S, 66°14'W | -11.2167 | -66.2333 | Anderson (1997) |
| Centro Dieciocho | Pando | Bolivia | 10°36'S, 66°47'W | -10.6 | -66.7833 | Anderson (1997) |
| Independencia | Pando | Bolivia | 11°26'S, 67°34'W | -11.4333 | -67.5667 | Anderson (1997) |
| Santa Rosa | Pando | Bolivia | 12°13'S, 68°24'W | -12.2167 | -68.4 | Anderson (1997) |
| Río Negrillo | Santa Cruz | Bolivia | 15°03'S, 62°45'W | -15.05 | -62.75 | Anderson (1997) |
| Igarapé Três Bocas, Porto Walter | Acre | Brazil | ca. 08°16'S, 72°44'W | -8.26667 | -72.7333 | Nogueira, Pol & Peracchi (1999) |
| Maracá | Amapá | Brazil | ca. 00°26'S, 51°29'W | -0.43333 | -51.4833 | Castro & Michalski (2015) |
| Reserva de Desenvolvimento Sustentável do Rio Iratapuru | Amapá | Brazil | 0°16'37''N, 53°06'26''W | 0.260278 | -53.1072 | Martins, Bernard & Gregorin (2006) |
| Rodovia Perimetral Norte, km 160 | Amapá | Brazil | ca. 00°29'N, 50°36'W | 0.483333 | -50.6 | Peracchi, Raimundo & Tannure (1984) |
| Barcelos and Santa Isabel do Rio Negro | Amazonas | Brazil | ca. 00°37'S, 63°31'W | -0.61667 | -63.5167 | Moratelli, Dias & Bonvicino (2010) |
| João Pessoa (= Eirunepé) | Amazonas | Brazil | 06°39'S, 69°51'W | -6.66667 | -69.8667 | Patterson (1992) |
| Manaus | Amazonas | Brazil | ca. 03°04'S, 60°00'W | -3.06667 | -60 | Reis (1984) |
| Parque Nacional Jaú | Amazonas | Brazil | 01°54'S, 61°27'W | -1.9 | -61.45 | Barnett et al. (2006) |
| Tefé | Amazonas | Brazil | 03°22'S, 64°43'W | -3.36667 | -64.7167 | Mok & Lacey (1980) |
| Bahia (= Salvador) | Bahia | Brazil | ca. 13°00'S, 38°31'W | -13 | -38.5167 | Gervais (1856) |
| Lençois | Bahia | Brazil | 12°33'47''S, 41°24'05''W | -12.5631 | -41.4014 | Sbragia et al. (2010) |
| Paripiranga | Bahia | Brazil | 10°32’38”S, 37°57’23”W | -10.5439 | -37.9564 | Feijó et al. (2015) |
| Rio Mucuri | Bahia | Brazil | 18°05'S, 39°34'W | -18.0833 | -39.5667 | Wied (1826) coordinates from Vanzolini & Myers (2015) |
| Santa Luzia | Bahia | Brazil | 15°25'46''S, 39°20'03''W | -15.4294 | -39.3342 | Faria, Soares-Santos & Sampaio (2006) |
| Valença | Bahia | Brazil | ca. 13°22'S, 39°04'W | -13.3667 | -39.0667 | Faria, Soares-Santos & Sampaio (2006) |
| Morro d'Anta, Conceição da Barra | Espírito Santo | Brazil | 18°17'59"S, 39°57'11"W | -18.2997 | -39.9531 | Ruschi (1952) |
| Mucurici | Espírito Santo | Brazil | 18°05'S, 40°30'W | -18.0833 | -40.5 | Ruschi (1953) |
| São Mateus | Espírito Santo | Brazil | 18°43'S, 39°51'W | -18.7167 | -39.85 | Ruschi (1953) |
| Niquelândia (Fazenda Moinho) | Goiás | Brazil | ca. 14°29'S, 48°37'W | -14.4833 | -48.6167 | Coimbra et al. (1982) |
| Serra da Mesa | Goiás | Brazil | Not mapped | N/A | N/A | Fracasso & Salles (2005) |
| Uruaçu | Goiás | Brazil | ca. 14°31'S, 49°08'W | -14.5167 | -49.1333 | Triveiler (1998) |
| São Luís | Maranhão | Brazil | ca. 02°43'S, 44°16'W | -2.733 | -44.28 | Dias et al. (2007) |
| Parque Nacional da Serra da Bodoquena | Mato Grosso do Sul | Brazil | 20°40'S, 56°46'W | -20.67 | -56.78 | Camargo et al. (2009) |
| Caratinga | Minas Gerais | Brazil | 19°47'S, 42°08'W | -19.7833 | -42.1333 | Taddei (1975) |
| Ipatinga | Minas Gerais | Brazil | 19°28'S, 42°32'W | -19.4667 | -42.5333 | Vieira (1942) |
| Parque Estadual do Rio Doce, Marliéria | Minas Gerais | Brazil | ca. 19°42’S, 42°34’W | -19.7 | -42.5667 | Tavares & Anciães (1998) |
| Uberlândia | Minas Gerais | Brazil | ca. 18°55'S, 48°16'W | -18.9 | -48.28 | Stutz et al. (2004) |
| Belém, Utinga | Pará | Brazil | 01°27'S 48°29'W | -1.45 | -48.4833 | USNM 361504 |
| Floresta Nacional de Caxiuanã | Pará | Brazil | ca. 01°47'S, 51°26'W | -1.45 | -51.4333 | Marques-Aguiar & Aguiar (2002) |
| Ilha do Taiuna (= Ilha do Tayaúna) | Pará | Brazil | 02°15'S, 49°29'W | -2.25 | -49.4833 | Harrison (1975) |
| Rio Tapajós, Parque Nacional da Amazônia | Pará | Brazil | 04°34'S, 56°18'W | -4.56667 | -56.3 | Reis & Schubart (1979) |
| Rio Xingu, 52 km SSW Altamira | Pará | Brazil | 03°39'S, 52°22'W | -3.65 | -52.3667 | Voss & Emmons (1996) |
| Sapé | Paraíba | Brazil | ca. 07°05'S, 35°13'W | -7.08333 | -35.2167 | Feijó & Langguth (2011) |
| Candói | Paraná | Brazil | 25°39'S, 51°57'W | -25.65 | -51.95 | Miranda et al. (2019) |
| Sumidouro, Rio Branco do Sul | Paraná | Brazil | ca. 25°11'S 49°18'W | -25.1833 | -49.3 | Miretzki (2003) |
| Estação Ecológica do Tapacurá, São Lourenço da Mata | Pernambuco | Brazil | ca. 08°00'S, 35°01'W | -8 | -35.0167 | Feijó & Langguth (2011) |
| Ilha da Gipóia, Angra dos Reis | Rio de Janeiro | Brazil | 23°02'S 44°01'W | -23.0333 | -44.0167 | Carvalho et al. (2011) |
| Itaperuna | Rio de Janeiro | Brazil | 21°12'S 41°53'W | -21.2 | -41.8833 | Louzada, Nogueira & Pessoa (2021) |
| Rio das Pedras, Mangaratiba | Rio de Janeiro | Brazil | 22°59'S, 44°05'W | -22.9928 | -44.095 | Muylaert et al. (2017) |
| Sumidouro | Rio de Janeiro | Brazil | 22°07'38"S, 42°41'00"W | -22.1272 | -42.6833 | Novaes et al. (2015) |
| Universidade Federal Rural do Rio de Janeiro, Seropédica | Rio de Janeiro | Brazil | 22°45'S, 43°41' | -22.75 | -43.6833 | Peracchi & Albuquerque (1971) |
| Vala da Banana, APA Guapimirim | Rio de Janeiro | Brazil | 22°41'S, 42°59'W | -22.6868 | -42.996 | Louzada, Nogueira & Pessoa (2021) |
| Cachoeira de Emas | São Paulo | Brazil | 21°55'S 47°21'W | -21.9167 | -47.35 | Vieira (1955) |
| Icém | São Paulo | Brazil | 20°21'S 49°16'W | -20.35 | -49.2667 | Taddei (1975) |
| Onda Branca, 10 km NW Nova Granada | São Paulo | Brazil | 20°27'S 49°23'W | -20.45 | -49.3833 | Taddei (1975) |
| Parque Estadual Turistico do Alto Ribeira, Iporanga | São Paulo | Brazil | 24°31'S 48°42'W | -24.5167 | -48.7 | Garbino (2016) |
| Sales | São Paulo | Brazil | 21°20'S 49°29'W | -21.3333 | -49.4833 | Taddei (1975) |
| Campus Universidade Federal de Sergipe, São Cristóvão | Sergipe | Brazil | 10°55'S, 37°04'W | -10.9167 | -37.0667 | Rocha et al. (2010) |
| Leticia | Amazonas | Colombia | 04°09'S, 69°57'W | -4.15 | -69.95 | USNM 595074 |
| Chigorodó | Antioquia | Colombia | 07°41'N, 76°42'W | 7.683333 | -76.7 | USNM 431758 |
| Bonda | Magdalena | Colombia | 11°14'N, 74°07'W | 11.23333 | -74.1167 | Allen (1900) |
| Acacías | Meta | Colombia | 03°59'N 73°45'W | 3.983333 | -73.75 | USNM 595075 |
| Buenaventura | Valle del Cauca | Colombia | 03°56'N, 77°04'W | 3.933333 | -77.0667 | Williams & Genoways (2008) |
| Caño Cubiyu (= Cubigu), Rio Vaupes, 50 Km W Mitu | Vaupés | Colombia | ca. 01°02'N, 70°12'W | 1.033333 | -70.2 | USNM 483328 |
| La Pacifica, COMELCO | Guanacaste | Costa Rica | ca. 10°15'N 85°36'W | 10.25 | -85.6 | LaVal & Fitch (1977) |
| Río Colorado, 9 km N Liberia | Guanacaste | Costa Rica | 10°38'N 85°33'W | 10.63333 | -85.55 | Starrett & Casebeer (1968) |
| La Selva Biological Station | Heredia | Costa Rica | 10°26'N 83°59'W | 10.43333 | -83.9833 | LaVal & Fitch (1977) |
| Finca La Lola, Río Madre de Dios | Limón | Costa Rica | 10°05'N, 83°23'W | 10.08333 | -83.3833 | Starrett & Casebeer (1968) |
| Estero Inés | Esmeraldas | Ecuador | 00°41’N 80°02’W | 0.683333 | -80.0333 | Tirira & Boada (2005) |
| San Francisco de Bogotá | Esmeraldas | Ecuador | 01°02’N 78°25’W | 1.033333 | -78.4167 | Carrera et al. (2010) |
| Laguna Grande, Río Cuyabeno | Napo | Ecuador | 00°00' 76°11'W | 0 | -76.1833 | Albuja (1999) |
| Parque Nacional Yasuni | Napo | Ecuador | 00°40'S 76°25'W | -0.68 | -76.43 | Clare et al. (2011) |
| Putsu | Pastaza | Ecuador | 01°50'S 77°50'W | -1.83333 | -77.8333 | Hill & Bown (1963) |
| Limoncocha | Sucumbíos | Ecuador | 00°24'S, 76°36'W | -0.4 | -76.6 | Albuja (1999) |
| Marian | Sucumbíos | Ecuador | 00°01'S, 76°20'W | -0.01667 | -76.3333 | Albuja (1999) |
| Cueva Hedionda | La Libertad | El Salvador | 13°31'N 89°19'W | 13.51667 | -89.3167 | Hill & Bown (1963) |
| Acajutla |  | El Salvador | 13°35'N 89°49'W | 13.58333 | -89.8167 | Harrison & Pendleton (1974) |
| Paracou, near Sinnamary |  | French Guiana | 05°17'N, 52°55'W | 5.283333 | -52.9167 | Simmons & Voss (1998) |
| Sinnamary |  | French Guiana | 05°23'N, 52°57'W | 5.383333 | -52.95 | Brosset & Dubost (1967) |
| La Avellana |  | Guatemala | 13°55'N 90°28'W | 13.91667 | -90.4667 | Seymour & Dickerman (1982) |
| 24 miles from Bartica on Potaro Road | Cuyuni-Mazaruni | Guyana | 06°00'N, 58°40'W | 6 | -58.6667 | Hill (1964) |
| Río Sicre (= Río Sigre) | Gracias a Dios | Honduras | ca. 15°45'N, 84°35'W | 15.75 | -84.5833 | Handley (1957) |
| Río Coco, 76 miles E Danlí |  | Honduras | ca. 14°05'N, 85°38'W | 14.08333 | -85.6333 | Davis, Carter & Pine (1964) |
| Arroyo José | Chiapas | Mexico | 16°06'N, 91°56'W | 16.1 | -91.9333 | Alvarez-Castañeda & Alvarez (1991) |
| Arroyo San Pablo | Chiapas | Mexico | 16°05'N, 91°57'W | 16.08333 | -91.95 | Alvarez-Castañeda & Alvarez (1991) |
| Estación Chajul de SEDUE | Chiapas | Mexico | 16°06'N, 90°56'W | 16.1 | -90.9333 | Alvarez-Castañeda & Alvarez (1991) |
| Río Lagartos | Chiapas | Mexico | 16°07'N, 91°57'W | 16.11667 | -91.95 | Alvarez-Castañeda & Alvarez (1991) |
| Teapa | Tabasco | Mexico | 17°32'N, 92°45'W | 17.53333 | -92.75 | Lay (1962) |
| Cacao (2 km W from Muelle de los Bueyes) | Región Autónoma de la Costa Caribe Sur | Nicaragua | ca. 12°03'N, 84°32'W | 12.05 | -84.5333 | Davis et al. (1964) |
| 12 km SSW Changuinola | Bocas del Toro | Panama | 09°27'N, 82°31'W | 9.45 | -82.5167 | Handley (1966) |
| Almirante | Bocas del Toro | Panama | 09°18'N, 82°24'W | 9.3 | -82.4 | Handley (1966) |
| Fort Davis | Colón | Panama | 09°15'N, 79°56'W | 9.25 | -79.9333 | Handley (1966) |
| Fort Gulick | Colón | Panama | 09°18'N, 79°53'W | 9.3 | -79.8833 | Handley (1966) |
| Madden Dam | Colón | Panama | 09°13'N, 79°38'W | 9.216667 | -79.6333 | Handley (1966) |
| Salamanca Hydrographic Station | Colón | Panama | 09°17'N, 79°36'W | 9.283333 | -79.6 | Handley (1966) |
| Boca del Rio Paya | Darién | Panama | 07°55'N, 77°31'W | 7.916667 | -77.5167 | Handley (1966) |
| Jaqué | Darién | Panama | 07°31'N, 78°10'W | 7.516667 | -78.1667 | Handley (1966) |
| Armila | Guna Yala | Panama | 08°40'N, 77°27'W | 8.666667 | -77.45 | Handley (1966) |
| Puerto Obaldía | Guna Yala | Panama | 08°40'N, 77°25'W | 8.666667 | -77.4167 | Handley (1966) |
| Cerro Azul | Panamá | Panama | 09°13'N, 79°18'W | 9.216667 | -79.3 | Handley (1966) |
| Chepo | Panamá | Panama | 09°10'N, 79°06'W | 9.166667 | -79.1 | Handley (1966) |
| Pacora | Panamá | Panama | 09°04'N, 79°18'W | 9.066667 | -79.3 | Handley (1966) |
| Panama city | Panamá | Panama | 08°59'N, 79°31'W |  |  | Goldman (1920) |
| Panama Viejo | Panamá | Panama | 08°59'N, 79°31'W | 8.983333 | -79.5167 | Handley (1966) |
| 2 miles S San Francisco | Veraguas | Panama |  |  |  | Davis et al. (1964) |
| Cerro Hoya | Veraguas | Panama | 07°18'N, 80°42'W | 7.3 | -80.7 | Handley (1966) |
| Arroyo Tacuara | Amambay | Paraguay | 22°30'S, 56°00'W | -22.5 | -56 | Wilson & Gamarra de Fox (1991) |
| Pedro Juan Caballero, Cerro Cora | Amambay | Paraguay | 22°37'S, 56°01'W | -22.63 | -56.02 | Muyalert et al. (2017) |
| Rio Ypané, Belén | Concepción | Paraguay | 23°27'S, 57°15'W | -23.45 | -57.25 | Baud (1989) |
| Río Cenipa, mouth | Amazonas | Peru | 04°40'S, 78°12'W | -4.66667 | -78.2 | Tuttle (1970) |
| Nuevo San Juan | Loreto | Peru | 05°15'S, 73°10'W | -5.25 | -73.1667 | Voss et al. (2016) |
| San Jeronimo, rio Ucayali | Loreto | Peru | 07°55'S, 74°54'W | -7.92 | -74.91 | Thomas (1928), coordinates from Patton, Pardiñas & D’Elía (2015) |
| Pakitza | Madre de Dios | Peru | 11°55'S, 71°15'W | -11.9167 | -71.25 | Ascorra et al. (1991) |
| San Juan | Pasco | Peru | 10°30'S, 74°53'W | -10.5 | -74.8833 | Tuttle (1970) |
| Balta | Ucayali | Peru | 10°08'S, 71°13'W | -10.1333 | -71.2167 | Voss & Emmons (1996) |
| Coronel Portillo, Yarinacocha | Ucayali | Peru | 08°17'S, 74°39'W | -8.28333 | -74.65 | Sanborn (1949) |
| Santo Boma Locks | Wanica | Suriname | 05°47'N, 55°17'W | 5.783333 | -55.2833 | Husson (1978) |
| Belén, Río Cunucunuma | Amazonas | Venezuela | 03°39'N, 65°46'W | 3.65 | -65.7667 | Handley (1976) |
| Boca Mavaca | Amazonas | Venezuela | 02°30'N, 65°13'W | 2.5 | -65.2167 | Handley (1976) |
| Capibara, Brazo Casiquiare | Amazonas | Venezuela | 02°38'N, 66°19'W | 2.633333 | -66.3167 | Handley (1976) |
| El Merey | Amazonas | Venezuela | ca. 03°05'N, 65°55'W | 3.083333 | -65.9167 | Handley (1976) |
| La Esmeralda | Amazonas | Venezuela | 03°10'N, 65°33'W | 3.166667 | -65.55 | Handley (1976) |
| Río Mavaca, 108 km SSE Esmeralda | Amazonas | Venezuela | 02°15'N, 65°17'W | 2.25 | -65.2833 | Handley (1976) |
| San Juan, Rio Manapiare | Amazonas | Venezuela | 05°18'N, 66°13'W | 5.3 | -66.2167 | Handley (1976) |
| Hato Caribén, Río Cinaruco, 32 to 46 km NE Pto. Paez | Apure | Venezuela | 06°33'N, 67°13'W | 6.55 | -67.2167 | Handley (1976) |
| Laguna de Macupino (= Laguna Macupina), Santa María | Apure | Venezuela | 06°27'N, 67°12'W | 6.46 | -67.2 | Linares (1966) |
| El Manaco, 59 km SE El Dorado | Bolívar | Venezuela | 06°21'N, 61°17'W | 6.35 | -61.2833 | Handley (1976) |
| Río Supamo, 50 km SE El Manteco | Bolívar | Venezuela | 07°00'N, 62°15'W | 7 | -62.25 | Handley (1976) |
| Lago de Valencia | Carabobo | Venezuela | 10°11'N, 67°45'W | 10.18333 | -67.75 | Linares (1966) |
| Caño Araguabisi | Delta Amacuro | Venezuela | 09°29'N, 60°57'W | 9.483333 | -60.95 | Linares & Rivas (2004) |
| Embalse de Guárico | Guárico | Venezuela | 09°01'N, 67°26'W | 9.016667 | -67.4333 | Handley (1976) |
| Hato Las Palmitas, 35 km SSW San Juan de los Morros | Guárico | Venezuela | 09°36'N, 67°27'W | 9.6 | -67.45 | Handley (1976) |
| Cueva de Saffont, Caripe | Monagas | Venezuela | ca. 10°10'N, 63°32'W | 10.16667 | -63.5333 | Linares (1966) |
| El Rosario, 65 kmWNW of Los Encontrados | Zulia | Venezuela | ca. 09°18'N, 72°46'W | 9.3 | -72.7667 | Handley (1976) |
| Lagunillas | Zulia | Venezuela | 10°08°N, 71°16'W | 10.13333 | -71.2667 | Handley (1956) |

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