

Southern Amazonia, State of Mato Grosso, Brazil

Aquatic Macrophytes of Sinop Hydroelectric Power Plant

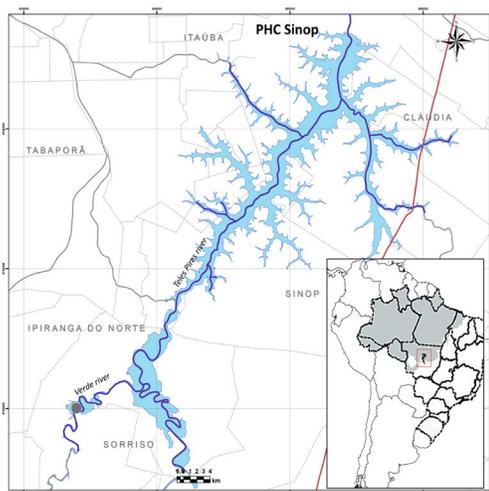
Hanna Beatriz Macedo, Josiane Fernandez Keffer, Dinefe Rafaela Giacoppini, Bianca Rodrigues Bevilacqua, Christian Gabriel da Silva, Diego Taquini de Araujo, Larissa Cavalheiro, Milton Omar Córdova

Universidade Federal de Mato Grosso

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The direct influence area of the Sinop Hydroelectric Power Plant (HPP Sinop) encompasses a stretch of approximately 120 km of the Teles Pires River basin, located in the middle course, near the municipalities of Sinop, Sorriso, Ipiranga do Norte, and Itaúba, in the state of Mato Grosso, southern Amazon. In the study area, the Teles Pires rivers are present. The Teles Pires River basin (7°18' to 14°42'S and 53°58' to 57°47'W) covers an area of about 113,706.23 km² solely in the state of Mato Grosso (Wenzel et al., 2017). The climate in the region is rainy tropical, type Aw 4 according to the Köppen classification, with a dry winter. Average annual temperatures are around 24°C, with relative humidity between 80 and 85%. The vegetation is peculiar with characteristic environmental heterogeneity of the Cerrado-Amazon transition.



1 *Justicia asclepiadea*
ACANTHACEAE
Amphibian subshrub



2 *Echinodorus paniculatus*
ALISMATACEAE
Emergent herb



3 *Echinodorus paniculatus*
ALISMATACEAE
Emergent herb



4 *Echinodorus subalatus*
ALISMATACEAE
Emergent herb



5 *Echinodorus subalatus*
ALISMATACEAE
Emergent herb



6 *Limnocharis laforesti*
ALISMATACEAE
Floating herb



7 *Limnocharis laforesti*
ALISMATACEAE
Floating herb



8 *Sagittaria guayanensis*
ALISMATACEAE
Floating herb



9 *Sagittaria guayanensis*
ALISMATACEAE
Floating herb



10 *Alternanthera brasiliana*
AMARANTHACEAE
Amphibian subshrub

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11 *Alternanthera brasiliana*
AMARANTHACEAE
Amphibian subshrub



12 *Funastrum clausum*
APOCYNACEAE
Amphibian vine



13 *Funastrum clausum*
APOCYNACEAE
Amphibian vine



14 *Tabernaemontana siphilitica*
APOCYNACEAE
Amphibian subshrub



15 *Tabernaemontana siphilitica*
APOCYNACEAE
Amphibian subshrub



16 *Montrichardia arborescens*
ARACEAE
Emergent herb



17 *Montrichardia arborescens*
ARACEAE
Emergent herb



18 *Montrichardia arborescens*
ARACEAE
Emergent herb



19 *Mikania cordifolia*
ASTERACEAE
Amphibian vine



20 *Mikania cordifolia*
ASTERACEAE
Amphibian vine



21 *Mikania micrantha*
ASTERACEAE
Amphibian vine



22 *Mikania micrantha*
ASTERACEAE
Amphibian vine



22 *Cabomba furcata*
CABOMBACEAE
Submerged herb



23 *Cabomba furcata*
CABOMBACEAE
Submerged herb



24 *Combretum lanceolatum*
COMBRETACEAE
Amphibian shrub

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25 *Combretum lanceolatum*
COMBRETACEAE
Amphibian shrub



26 *Aniseia martinicensis*
CONVOLVULACEAE
Amphibian vine



27 *Aniseia martinicensis*
CONVOLVULACEAE
Amphibian vine



28 *Ipomoea quamoclit*
CONVOLVULACEAE
Amphibian vine



29 *Ipomoea quamoclit*
CONVOLVULACEAE
Amphibian vine



30 *Ipomoea rubens*
CONVOLVULACEAE
Amphibian vine



31 *Ipomoea rubens*
CONVOLVULACEAE
Amphibian vine



32 *Ipomoea setifera*
CONVOLVULACEAE
Amphibian vine



33 *Ipomoea setifera*
CONVOLVULACEAE
Amphibian vine



34 *Varronia polycephala*
CORDIACEAE
Amphibian shrub



35 *Varronia polycephala*
CORDIACEAE
Amphibian shrub



36 *Costus amazonicus*
COSTACEAE
Amphibian herb



37 *Costus arabicus*
COSTACEAE
Amphibian herb



38 *Costus spiralis*
COSTACEAE
Amphibian herb



39 *Calyptrocarya glomerulata*
CYPERACEAE
Emergent herb

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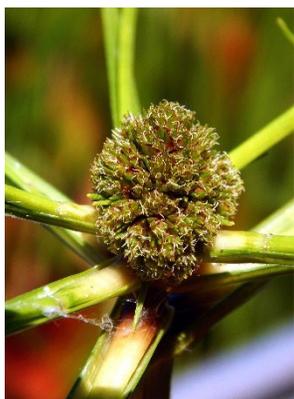
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40 *Calyptrocarya glomerulata*
CYPERACEAE
Emergent herb



41 *Cyperus blepharoleptos*
CYPERACEAE
Emergent herb



42 *Cyperus blepharoleptos*
CYPERACEAE
Emergent herb



43 *Cyperus brevifolius*
CYPERACEAE
Amphibian herb



44 *Cyperus brevifolius*
CYPERACEAE
Amphibian herb



45 *Cyperus esculentus*
CYPERACEAE
Emergent herb



46 *Cyperus esculentus*
CYPERACEAE
Emergent herb



47 *Cyperus luzulae*
CYPERACEAE
Amphibian herb



48 *Cyperus luzulae*
CYPERACEAE
Amphibian herb



49 *Cyperus sesquiflorus*
CYPERACEAE
Amphibian herb



50 *Cyperus sesquiflorus*
CYPERACEAE
Amphibian herb



51 *Cyperus surinamensis*
CYPERACEAE
Emergent herb



52 *Cyperus surinamensis*
CYPERACEAE
Emergent herb



53 *Diplacrum capitatum*
CYPERACEAE
Amphibian herb



54 *Diplacrum capitatum*
CYPERACEAE
Amphibian herb

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55 *Eleocharis acutangula*
CYPERACEAE
Emergent herb



56 *Eleocharis acutangula*
CYPERACEAE
Emergent herb



57 *Eleocharis elegans*
CYPERACEAE
Emergent herb



58 *Eleocharis elegans*
CYPERACEAE
Emergent herb



59 *Eleocharis filiculmis*
CYPERACEAE
Emergent herb



60 *Eleocharis filiculmis*
CYPERACEAE
Emergent herb



61 *Fimbristylis littoralis*
CYPERACEAE
Emergent herb



62 *Fuirena umbellata*
CYPERACEAE
Emergent herb



63 *Fuirena umbellata*
CYPERACEAE
Emergent herb



64 *Fuirena umbellata*
CYPERACEAE
Emergent herb



65 *Rhynchospora cephalotes*
CYPERACEAE
Emergent herb



66 *Rhynchospora cephalotes*
CYPERACEAE
Emergent herb



67 *Davilla nitida*
DILLENIACEAE
Amphibian vine



68 *Davilla nitida*
DILLENIACEAE
Amphibian vine



69 *Davilla rugosa*
DILLENIACEAE
Amphibian shrub

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70 *Davilla rugosa*
DILLENIACEAE
Amphibian shrub



71 *Caperonia palustris*
EUPHORBIACEAE
Amphibian subshrub



72 *Caperonia palustris*
EUPHORBIACEAE
Amphibian subshrub



73 *Abrus fruticulosus*
FABACEAE
Amphibian vine



74 *Abrus fruticulosus*
FABACEAE
Amphibian vine



75 *Aeschynomene sensitiva*
FABACEAE
Amphibian subshrub



76 *Aeschynomene sensitiva*
FABACEAE
Amphibian subshrub



77 *Chamaecrista nictitans*
FABACEAE
Amphibian subshrub



78 *Chamaecrista nictitans*
FABACEAE
Amphibian subshrub



79 *Deguelia nitidula*
FABACEAE
Amphibian vine



80 *Deguelia nitidula*
FABACEAE
Amphibian vine



81 *Mimosa debilis*
FABACEAE
Amphibian shrub



82 *Mimosa pigra*
FABACEAE
Amphibian shrub



83 *Mimosa pigra*
FABACEAE
Amphibian shrub



84 *Mimosa pigra*
FABACEAE
Amphibian shrub

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85 *Mimosa pudica*
FABACEAE
Amphibian shrub



86 *Mimosa pudica*
FABACEAE
Amphibian shrub



87 *Stylosanthes viscosa*
FABACEAE
Amphibian subshrub



88 *Stylosanthes viscosa*
FABACEAE
Amphibian subshrub



89 *Zornia reticulata*
FABACEAE
Amphibian herb



90 *Zornia reticulata*
FABACEAE
Amphibian herb



91 *Zornia latifolia*
FABACEAE
Amphibian herb



92 *Zornia latifolia*
FABACEAE
Amphibian herb



93 *Coutoubea ramosa*
GENTIANACEAE
Amphibian shrub



94 *Coutoubea ramosa*
GENTIANACEAE
Amphibian shrub



95 *Schultesia guianensis*
GENTIANACEAE
Emergent herb



96 *Schultesia guianensis*
GENTIANACEAE
Emergent herb



97 *Euploca parviflora*
BORAGINACEAE
Amphibian herb



98 *Apalanthe granatensis*
HYDROCHARITACEAE
Submerged herb



99 *Apalanthe granatensis*
HYDROCHARITACEAE
Submerged herb

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100 *Hyptis brevipes*
LAMIACEAE
Amphibian subshrub



101 *Hyptis brevipes*
LAMIACEAE
Amphibian subshrub



102 *Hyptis recurvata*
LAMIACEAE
Amphibian subshrub



103 *Mesosphaerum pectinatum*
LAMIACEAE
Amphibian subshrub



104 *Mesosphaerum pectinatum*
LAMIACEAE
Amphibian subshrub



105 *Utricularia breviscapa*
LENTIBULARIACEAE
Submerged herb



106 *Utricularia breviscapa*
LENTIBULARIACEAE
Submerged herb



107 *Utricularia breviscapa*
LENTIBULARIACEAE
Submerged herb



108 *Utricularia gibba*
LENTIBULARIACEAE
Submerged herb



109 *Utricularia gibba*
LENTIBULARIACEAE
Submerged herb



110 *Utricularia gibba*
LENTIBULARIACEAE
Submerged herb



111 *Spigelia anthelmia*
LOGANIACEAE
Amphibian herb



112 *Spigelia anthelmia*
LOGANIACEAE
Amphibian herb



113 *Cuphea melvilla*
LYTHRACEAE
Amphibian shrub



114 *Cuphea melvilla*
LYTHRACEAE
Amphibian shrub

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105 *Malvastrum coromandelianum*
MALVACEAE
Amphibian subshrub



106 *Mayaca fluviatilis*
MAYACACEAE
Submerged herb



107 *Mayaca fluviatilis*
MAYACACEAE
Submerged herb



108 *Mayaca sellowiana*
MAYACACEAE
Submerged herb



109 *Mayaca sellowiana*
MAYACACEAE
Submerged herb



110 *Aciotis acuminifolia*
MELASTOMATACEAE
Emergent herb



111 *Aciotis acuminifolia*
MELASTOMATACEAE
Emergent herb



112 *Glinus radiatus*
MOLLUGINACEAE
Amphibian herb



113 *Mollugo verticillata*
MOLLUGINACEAE
Amphibian herb



114 *Nymphaea amazonum*
NYMPHAEACEAE
Floating herb



115 *Nymphaea amazonum*
NYMPHAEACEAE
Floating herb



116 *Ludwigia decurrens*
ONAGRACEAE
Amphibian subshrub



117 *Ludwigia lagunae*
ONAGRACEAE
Amphibian subshrub



118 *Ludwigia lagunae*
ONAGRACEAE
Amphibian subshrub



119 *Ludwigia leptocarpa*
ONAGRACEAE
Amphibian subshrub

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120 *Ludwigia octovalvis*
ONAGRACEAE
Amphibian subshrub



121 *Ludwigia octovalvis*
ONAGRACEAE
Amphibian subshrub



122 *Ludwigia torulosa*
ONAGRACEAE
Amphibian subshrub



123 *Ludwigia torulosa*
ONAGRACEAE
Amphibian subshrub



124 *Phyllanthus niruri*
PHYLLANTHACEAE
Amphibian subshrub



125 *Phyllanthus niruri*
PHYLLANTHACEAE
Amphibian subshrub



126 *Bacopa stricta*
PLANTAGINACEAE
Amphibian subshrub



127 *Bacopa stricta*
PLANTAGINACEAE
Amphibian subshrub



128 *Myriophyllum mattogrossensis*
PLANTAGINACEAE
Submerged herb



129 *Scoparia dulcis*
PLANTAGINACEAE
Amphibian subshrub



130 *Scoparia dulcis*
PLANTAGINACEAE
Amphibian subshrub



131 *Digitaria ciliaris*
POACEAE
Amphibian herb



132 *Digitaria ciliaris*
POACEAE
Amphibian herb



133 *Hymenachne amplexicaulis*
POACEAE
Emergent herb



134 *Hymenachne amplexicaulis*
POACEAE
Emergent herb

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135 *Hymenachne pernambucensis*
POACEAE
Emergent herb



136 *Hymenachne pernambucensis*
POACEAE
Emergent herb



137 *Leersia hexandra*
POACEAE
Emergent herb



138 *Pariana campestris*
POACEAE
Amphibian herb



139 *Rugoloa hylaeica*
POACEAE
Amphibian herb



140 *Rugoloa pilosa*
POACEAE
Amphibian herb



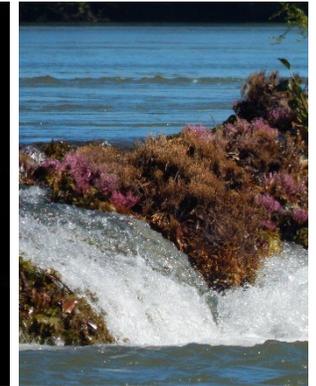
141 *Rugoloa pilosa*
POACEAE
Amphibian herb



142 *Urochloa mutica*
POACEAE
Emergent herb



143 *Urochloa mutica*
POACEAE
Emergent herb



144 *Mourera elegans*
PODOSTEMACEAE
Emergent herb



145 *Mourera elegans*
PODOSTEMACEAE
Emergent herb



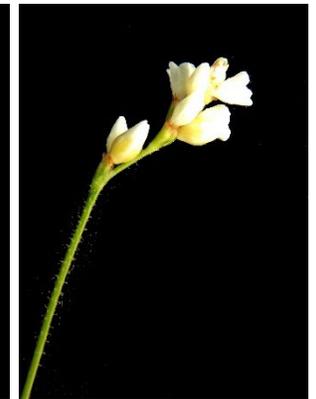
146 *Polygonum acuminatum*
POLYGONACEAE
Emergent herb



147 *Polygonum acuminatum*
POLYGONACEAE
Emergent herb



148 *Polygonum meisnerianum*
POLYGONACEAE
Emergent herb



149 *Polygonum meisnerianum*
POLYGONACEAE
Emergent herb

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150 *Pontederia azurea*
PONTEDERIACEAE
Floating herb



151 *Pontederia azurea*
PONTEDERIACEAE
Floating herb



152 *Pontederia azurea*
PONTEDERIACEAE
Floating herb



153 *Pontederia crassipes*
PONTEDERIACEAE
Floating herb



154 *Pontederia crassipes*
PONTEDERIACEAE
Floating herb



155 *Pontederia crassipes*
PONTEDERIACEAE
Floating herb



156 *Pontederia parviflora*
PONTEDERIACEAE
Flooded herb



157 *Ricciocarpos natans*
RICCIACEAE
Flooding herb



158 *Ricciocarpos natans*
RICCIACEAE
Flooding herb



159 *Palicourea amplexans*
RUBIACEAE
Amphibian shrub



160 *Palicourea amplexans*
RUBIACEAE
Amphibian shrub



161 *Palicourea amplexans*
RUBIACEAE
Amphibian shrub



162 *Psychotria capitata*
RUBIACEAE
Amphibian shrub



163 *Sabicea aspera*
RUBIACEAE
Amphibian vine



164 *Sabicea aspera*
RUBIACEAE
Amphibian vine

Southern Amazonia, State of Mato Grosso, Brazil

Aquatic Macrophytes of Sinop Hydroelectric Power Plant

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165 *Solanum subinerme*
SOLANACEAE
Amphibian shrub



166 *Solanum subinerme*
SOLANACEAE
Amphibian shrub



167 *Turnera melochioides*
TURNERACEAE
Amphibian subshrub



168 *Turnera melochioides*
TURNERACEAE
Amphibian subshrub



169 *Urera baccifera*
URTICACEAE
Amphibian subshrub



170 *Urera baccifera*
URTICACEAE
Amphibian subshrub



171 *Lippia alba*
VERBENACEAE
Amphibian herb



172 *Phyla venulifolia*
VERBENACEAE
Amphibian subshrub



173 *Cissus erosa*
VITACEAE
Amphibian vine



174 *Cissus erosa*
VITACEAE
Amphibian vine



175 *Cissus spinosa*
VITACEAE
Amphibian vine



176 *Cissus spinosa*
VITACEAE
Amphibian vine



177 *Xyris jupicae*
XYRIDACEAE
Emergent herb



178 *Xyris jupicae*
XYRIDACEAE
Emergent herb



179 *Xyris jupicae*
XYRIDACEAE
Emergent herb