Tracing plant histories: linking botanical collections, peoples, and illustrations in seventeenth century Dutch Brazil

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Appendices

Supplementary Material

Chapter 2

The supplementary material of this chapter is available at https://doi.org/10.1007/s12231-019-09469-w.

ESM 1 Identifications of Marcgrave and Piso plant species, vernacular names, uses in the seventeenth century northeast Brazil; and current origin, cultivation state, phytogeographical distribution, and vegetation type in Brazil.

ESM 2 Retentions of seventeenth century plant use in modern Brazil.

ESM 3 Identifications of Marcgrave Herbarium, collected from 1638 to 1643, and correlations with the HNB and the IURNM.

Chapter 3

The supplementary data of this chapter is available at https://doi.org/10.1016/j.jep.2020.112911.

Supplementary Table S1 Plant species composition in the Brazilian markets analyzed and overlap with the useful species of the HNB. Specie's presence is marked as 1.

Supplementary Table S2 Overlap in vernacular names for the species in common between the HNB and the Brazilian markets and their language origin.

Supplementary Table S1 Content and plant taxa identified in the *Libri Picturati's* Brazilian plant collection.

Theatrum Rerum Naturalium

735 folios numbered (1-735), verso always blank

1-731 folios with illustrations, vernacular names, references and blank folios

733-735 folios with Index *Plantarum Brasiliae*

366 folios (recto) plus one glued folio between 729 and 731

15 folios completely blank

One folio with only a vernacular name (Ambaibuna) (Fig 1)

190 folios without illustrations but with 220 vernacular names and references

30 folios with two vernacular names (from two taxa) per folio

205 taxa with 18 vernacular names that occur twice

197 taxa identified to species level, five to genus level and three unidentified

160 folios with Brazilian plant illustrations

172 Brazilian plant illustrations that correspond to 176 plant images

12 folios with two figures per folio, one folio with three taxa (f. 37), two folios with two taxa (f. 341, 541)

11 taxa depicted twice and one taxon depicted three times

163 taxa identified: 150 identified to species level, eight to genus level, five unidentified

Libri Principis

34 folios with plant illustrations that correspond to 38 plant images

Four folios with two taxa per folio

35 plant names: 17 Latin names (13 unique) and 18 vernacular names (16 unique)

32 plant images identified to species level and six plants identified to genus level

Four species depicted twice

34 taxa identified: 29 taxa identified to species level and five taxa identified to genus level

Miscellanea Cleyeri

28 folios with plant illustrations that correspond to 34 plant images

One folio with two figures per folio (f. 55), four folios with one taxon

Two folios with two taxa depicted, one folio with three taxa depicted (f. 57)

35 plant names: 17 Latin names (13 unique), 18 vernacular names (16 unique)

32 plants identified to species level and two plants identified to genus level

Three species depicted twice, one species depicted three times, one species depicted four times

26 taxa identified: 24 identified to species level and two taxa identified to genus level

Supplementary Table S2 Origin of the introduced species that were present in Dutch Brazil c. 1640 and depicted in the *Libri Picturati*.

Origin	Plant Species
Tropical Asia - Pacific	*Abrus precatorius* L.
	Citrus x aurantiifolia (Christm.) Swingle
	Citrus x aurantium L.
	Citrus x *limon* (L.) Osbeck
	Cocos nucifera L.
	Dioscorea cf. *alata* L.
	Musa × *paradisiaca* L.
	Plumbago zeylanica L.
	Cf. *Plumeria* sp.
Tropical Africa	*Abelmoschus moschatus* Medik.
	Citrullus lanatus (Thunb.) Matsum. & Nakai
	Guilandina bonduc L.
	Lagenaria siceraria (Molina) Standl.
	Ricinus communis L.
	Solanum aethiopicum L.
	Tamarindus indica L.
	Xylopia aethiopica (Dunal) A.Rich.
South Africa	*Zantedeschia aethiopica* (L.) Spreng.
Middle East, South Africa	*Aloe vera* (L.) Burm.f.
S-Europe (Mediterranean basin)	*Punica granatum* L.
	Vitis vinifera L.

Origin	Plant Species
US, Mexico	*Cucurbita pepo* L.
	Helianthus annus L.
US, N-South America	*Boerhavia coccinea* Mill.
Peru (Andes)	*Gossypium barbadense* L.
Central America, Caribbean	*Argemone mexicana* L.
	Carica papaya L.
	Ipomoea quamoclit L.
	Psidium guajava L.
	Tagetes cf. *erecta* L.
	Zea mays L.
Central America, Andes-N- South America	*Furcraea foetida* (L.) Haw.
	Ipomoea batatas (L.) Lam.
	Phaseolus vulgaris L.
	Phaseolus sp.

Supplementary Table S3 Conservation status of plant species from the *Libri Picturati* currently categorized as threatened by anthropogenic disturbance.

Plant species	**Conservation status**	**Endemic Region**	**Threats**[a]
Aechmea muricata	Endangered	Atlantic Rainforest	Urbanization
Hippeastrum psittacinum	Endangered	Atlantic Rainforest	Mining, harvesting (ornamental, medicinal)
Pilocarpus jaborandi	Endangered	Atlantic Rainforest, Caatinga	Fragmented population, deforestation, harvesting (medicine)
Melocactus violaceus subsp. margaritaceus	Vulnerable: Decreasing / CITES-listed	Atlantic Rainforest	Urbanization, road construction, agro-industry
Bowdichia virgilioides	Near Threatened		Logging, ornamental trade
Avicennia schaueriana	Least Concern: Decreasing		Urbanization, pollution, agri- /aquaculture, logging
Brasiliopuntia brasiliensis	Least Concern: Decreasing / CITES-listed		Urbanization, agriculture, mining, logging

Plant species	Conservation status	Endemic Region	Threats[a]
Laguncularia racemosa	Least Concern: Decreasing		Urbanization, industries, agriculture, aquaculture, logging, pollution

[a] Threats retrieved from http://cncflora.jbrj.gov.br/ and https://www.iucnredlist.org/.

The remaining supplementary information of this chapter is available at https://doi.org/10.1038/s41598-021-99226-8.

Supplementary Information 1 – Dataset S1 Taxonomical identifications of the plant illustrations and empty folios in the *Theatrum Naturalium Brasiliae* with references to Marcgrave and Piso (1648, 1658).

Supplementary Information 2 – **Dataset S2** Taxa at species level present in the HNB (Marcgrave and Piso, 1648) and IURNM (Piso 1658).

Supplementary Information 3 – Dataset S3 Taxa at species level present in Marcgrave's herbarium (collected during 1638-1643/4).

Chapter 6

The supplementary material of this chapter is available at DANS Easy repository in three deposits. The first one includes an excel table, a PDF and a Filemaker file and is available at https://doi.org/10.17026/dans-zk4-ercv.

Supplementary Dataset S1 Origin of the plant woodcuts of the *Historia Naturalis Brasiliae* (HNB, Marcgrave and Piso 1648).

Supplementary PDF S2 – **Appendix (S2)** Sources of the plant woodcuts in the *Historia Naturalis Brasiliae* (1648) Database [Data also available in Filemaker format].

The second one includes an excel table, a PDF and a Filemaker file and is available at https://doi.org/10.17026/dans-xm2-bnhw.

Supplementary Dataset S3 Sources of the plant woodcuts in the *India Utriusque re Naturali et Medica* (IURNM, Piso 1658).

Supplementary PDF S4 – **Appendix (S4)** Sources of the plant woodcuts in the *India Utriusque re Naturali et Medica* (1658) Database [Data also available in Filemaker format].

The third one includes an excel table and is available at https://doi.org/10.17026/dans-2ct-j737.

Supplementary Dataset S5 Correlations between the plant woodcuts in the HNB and the botanical annotations in De Laet's manuscript.

Glossary of Acronyms and Abbreviations

HNB – *Historia Naturalis Brasiliae*

IURNM – *India Utriusque re Naturale et Medica*

L – Herbarium of Naturalis Biodiversity Center, Leiden

C – Herbarium of the University of Copenhagen and Botanical Garden

MG – Herbarium of the Museum Paraense Emilio Goeldi, Belém

Theatrum – Theatrum Rerum Naturalium

IPLC – Indigenous Peoples and Local Communities

MC – *Miscellanea Cleyeri* (also abbreviated as *Misc. Cleyeri*)

LP – *Libri Principis*

ESM – Electronic Supplementary Material

GBIF – Global Biodiversity Information Facility database

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- Cross-century study of (Indigenous) plant use knowledge in Brazil
- Analysis of botanical illustrations
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MSc. Supervisor (April 2018-Jan. 2019) (FAL)

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- Market survey, plant gathering, herbarium collection, peer-reviewed publication

Researcher – Ethnobotany & Climate Change
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- Plant gathering, interviewing, co-creating workshops with local communities
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Alcantara-Rodriguez M., Francozo M. & Van Andel T. (2021), Looking into the flora of Dutch Brazil: botanical identifications of seventeenth century plant illustrations in the Libri Picturati, *Sci Rep*. 11.

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