

### **Table S1. Updated list of epiphyte species on BCI.**

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Table S1. Updated list of epiphyte species on BCI. Nomenclature follows WFO (2020) for flowering plants and Hassler and Schmitt (2019) for ferns and lycophytes. Apart from numerous changes in species name and family assignment, differences to Croat (1978) are also due to a divergent concept of “epiphyte” (see Zotz et al. (2021) for definitions). For transparency there are two columns for life forms (LF) (E, e = epiphyte, HE, he = hemiepiphyte, nv = nomadic vine, v = vine, FE, fe = facultative epiphytes, acc = accidental epiphyte). Species not covered in Croat (1978) are marked “\*\*” and the last column gives references. Quite a few of these records were actually collected before 1978, but were not included in the monograph due to delayed identifications. Epiphyte species listed in the BCI checklist for plants (<https://stricollections.org/portal/checklists/>) are only included when records are backed up by a voucher [author, collection number] collected on BCI. Vouchers collected before 1950 were not considered. A species of the genus *Chysis* has already been reported by Dressler (1993) – a flowering plant is needed for species identification.

Species	Sp (Croat 1978)	Family	Fam (Croat 1978)	Life form	Lf (Croat 1978)	Source for additions
<i>Anthurium acutangulum</i>		Araceae		e	E	
<i>Anthurium bakeri</i>		Araceae		e	E	
<i>Anthurium brownii</i>		Araceae		e	E	
<i>Anthurium concolor</i>	**	Araceae		e		[Croat 8154]
<i>Anthurium durandii</i>	<i>Anthurium littorale</i>	Araceae		e	E	
<i>Anthurium flexile</i>		Araceae		e	E	
<i>Anthurium friedrichsthali</i>		Araceae		e	E	
<i>Anthurium gracile</i>		Araceae		e	E	
<i>Anthurium kunthii</i>	**	Araceae		e		[Croat 8238]
<i>Anthurium obtusum</i>	**	Araceae		e		[Croat 14969]
<i>Anthurium paludosum</i>	**	Araceae		e		[Croat 8513]
<i>Anthurium salvinii</i>	**	Araceae		e		[Croat 7920]
<i>Anthurium scandens</i>		Araceae		e	E	
<i>Anthurium schlechtendalii</i> subsp. <i>schlechtendalii</i>	<i>Anthurium tetragonum</i>	Araceae		e/t	E	
<i>Stenospermation angustifolium</i>		Araceae		e	E	
<i>Oreopanax capitatus</i>		Araliaceae		e	E	
<i>Asplenium abscissum</i>	<i>Asplenium laetum</i>	Aspleniaceae	Polypodiaceae	e	E	
<i>Asplenium auritum</i>		Aspleniaceae	Polypodiaceae	e	E	
<i>Asplenium juglandifolium</i>	<i>Asplenium falcinellum</i>	Aspleniaceae	Polypodiaceae	e	E	
<i>Asplenium pteropus</i>		Aspleniaceae	Polypodiaceae	e	E	
<i>Asplenium serratum</i>		Aspleniaceae	Polypodiaceae	e	E	
<i>Hymenasplenium delitescens</i>	<i>Asplenium delitescens</i>	Aspleniaceae	Polypodiaceae	e	E	
<i>Begonia hirsuta</i>	<i>Begonia filipes</i>	Begoniaceae		e	FE	
<i>Aechmea pubescens</i>		Bromeliaceae		e	E	
<i>Aechmea setigera</i>		Bromeliaceae		e	E	
<i>Aechmea tillandsioides</i>		Bromeliaceae		e	E	
<i>Billbergia macrolepis</i>		Bromeliaceae		e	E	
<i>Catopsis sessiliflora</i>		Bromeliaceae		e	E	
<i>Guzmania lingulata</i>		Bromeliaceae		e	E	
<i>Guzmania monostachia</i>	<i>Guzmania monostachya</i>	Bromeliaceae		e	E	
<i>Pitcairnia heterophylla</i>		Bromeliaceae		e	E	
<i>Tillandsia anceps</i>		Bromeliaceae		e	E	
<i>Tillandsia bulbosa</i>		Bromeliaceae		e	E	
<i>Tillandsia elongata</i> var. <i>subimbricata</i>	**	Bromeliaceae		e		Zotz et al. (1999)
<i>Tillandsia fasciculata</i>		Bromeliaceae		e	E	
<i>Tillandsia monadelpha</i>		Bromeliaceae		e	E	
<i>Tillandsia subulifera</i>		Bromeliaceae		e	E	
<i>Vriesea gladioliflora</i>		Bromeliaceae		e	E	
<i>Vriesea heliconioides</i>		Bromeliaceae		e	E	

Species	Sp (Croat 1978)	Family	Fam (Croat 1978)	Life form	Lf (Croat 1978)	Source for additions
<i>Vriesea ringens</i>		Bromeliaceae		e	E	
<i>Vriesea sanguinolenta</i>		Bromeliaceae		e	E	
<i>Epiphyllum hookeri</i>	**	Cactaceae		e		[Croat 8455]
<i>Epiphyllum phyllanthus</i>		Cactaceae		e	E	
<i>Rhipsalis baccifera</i>	Rhipsalis cassytha	Cactaceae		e	E	
<i>Ludovia integrifolia</i>		Cyclanthaceae		e	E	
<i>Elaphoglossum doanense</i>	**	Dryopteridaceae		e		Einzmann et al. (2015)
<i>Elaphoglossum hayesii</i>		Dryopteridaceae	Polypodiaceae	e	E	
<i>Elaphoglossum latum</i>	**	Dryopteridaceae		e		Einzmann et al. (2015)
<i>Elaphoglossum lherminieri</i>	<i>Elaphoglossum herminieri</i>	Dryopteridaceae	Polypodiaceae	e	E	
<i>Elaphoglossum longicrura</i>	**	Dryopteridaceae		e	E	[Croat 10860]
<i>Elaphoglossum peltatum</i>	**	Dryopteridaceae		e		Einzmann et al. (2015)
<i>Elaphoglossum sporadolepis</i>		Dryopteridaceae	Polypodiaceae	e	E	
<i>Chrysothemis friedrichsthaliana</i>		Gesneriaceae		e	FE	
<i>Codonanthe crassifolia</i>		Gesneriaceae		e	E	
<i>Codonanthe uleana</i>		Gesneriaceae		e	E	
<i>Columnnea billbergiana</i>		Gesneriaceae		e	E	
<i>Columnnea purpurata</i>		Gesneriaceae		e	E	
<i>Drymonia serrulata</i>		Gesneriaceae		e	E	
<i>Didymoglossum ekmanii</i>	<i>Trichomanes ekmanii</i>	Hymenophyllaceae		e	E	
<i>Didymoglossum godmanii</i>	<i>Trichomanes godmanii</i>	Hymenophyllaceae		e	E	
<i>Didymoglossum kapplerianum</i>	<i>Trichomanes kapplerianum</i>	Hymenophyllaceae		e	E	
<i>Didymoglossum kraussii</i>	<i>Trichomanes kraussii</i>	Hymenophyllaceae		e	E	
<i>Didymoglossum ovale</i>	<i>Trichomanes ovale</i>	Hymenophyllaceae		e	E	
<i>Didymoglossum punctatum</i>	<i>Trichomanes punctatum</i>	Hymenophyllaceae		e	E	
<i>Hymenophyllum brevifrons</i>		Hymenophyllaceae		e	E	
<i>Trichomanes pinnatifidum</i>	**	Hymenophyllaceae		e		[Croat 8767]
<i>Trichomanes polypodioides</i>		Hymenophyllaceae		e	E	
<i>Phlegmariurus dichotomus</i>	<i>Lycopodium dichotomus</i>	Lycopodiaceae		e	E	
<i>Topobea parasitica</i>	<i>Topobea praecox</i>	Melastomataceae		e	E	
<i>Nephrolepis biserrata</i>		Nephrolepidaceae	Polypodiaceae	e	E	
<i>Nephrolepis pendula</i>		Nephrolepidaceae	Polypodiaceae	e	E	
<i>Acianthera verecunda</i>	<i>Pleurothallis verecunda</i>	Orchidaceae		e	E	
<i>Aspasia principissa</i>		Orchidaceae		e	E	
<i>Brassavola nodosa</i>	**	Orchidaceae		e		Zotz et al. (1999)
<i>Brassia caudata</i>		Orchidaceae		e	E	
<i>Bulbophyllum pachyrachis</i>		Orchidaceae		e	E	
<i>Camaridium neglectum</i>	<i>Maxillaria neglecta</i>	Orchidaceae		e	E	
<i>Camaridium ochroleucum</i>	<i>Maxillaria camaridii</i>	Orchidaceae		e	E	

Species	Sp (Croat 1978)	Family	Fam (Croat 1978)	Life form	Lf (Croat 1978)	Source for additions
<i>Campylocentrum micranthum</i>		Orchidaceae		e	E	
<i>Campylocentrum pachyrrhizum</i>		Orchidaceae		e	E	
<i>Catasetum bicolor</i>		Orchidaceae		e	E	
<i>Catasetum viridiflavum</i>		Orchidaceae		e	E	
<i>Caularthron bilamellatum</i>		Orchidaceae		e	E	
<i>Christensonella uncata</i>	<i>Maxillaria uncata</i>	Orchidaceae		e	E	
<i>Chysis</i> sp.	**	Orchidaceae		e		C. Goebel, pers. obs., Dressler (1993)
<i>Coryanthes maculata</i>		Orchidaceae		e	E	
<i>Dichaea panamensis</i>		Orchidaceae		e	E	
<i>Dichaea trulla</i>		Orchidaceae		e	E	
<i>Dimerandra emarginata</i>		Orchidaceae		e	E	
<i>Elleanthus longibracteatus</i>		Orchidaceae		e	E	
<i>Epidendrum bifarium</i>	<i>Epidendrum anceps</i>	Orchidaceae		e	E	
<i>Epidendrum coronatum</i>		Orchidaceae		e	E	
<i>Epidendrum difforme</i>		Orchidaceae		e	E	
<i>Epidendrum flexuosum</i>	<i>Epidendrum imatophyllum</i>	Orchidaceae		e	E	
<i>Epidendrum laterale</i>	<i>Epidendrum rousseauae</i>	Orchidaceae		e	E	
<i>Epidendrum lockhartioides</i>		Orchidaceae		e	E	
<i>Epidendrum nocturnum</i>		Orchidaceae		e	E	
<i>Epidendrum rigidum</i>		Orchidaceae		e	E	
<i>Epidendrum schlechterianum</i>		Orchidaceae		e	E	
<i>Epidendrum sculptum</i>		Orchidaceae		e	E	
<i>Epidendrum stamfordianum</i>	**	Orchidaceae		e		[Croat 7015]
<i>Epidendrum stangeanum</i>		Orchidaceae		e	E	
<i>Epidendrum strobiliferum</i>		Orchidaceae		e	E	
<i>Epidendrum umbelliferum</i>	**	Orchidaceae		e	E	[Croat 10106]
<i>Erycina pusilla</i>	<i>Psychomorchis pusilla</i>	Orchidaceae		e	E	
<i>Gongora fulva</i>	<i>Gongora tricolor</i>	Orchidaceae		e	E	
<i>Gongora quinquenervis</i>		Orchidaceae		e	E	
<i>Guarianthe patinii</i>	<i>Cattleya patinii</i>	Orchidaceae		e	E	
<i>Heterotaxis sessilis</i>	<i>Maxillaria crassifolia</i>	Orchidaceae		e	E	
<i>Ionopsis satyrioides</i>		Orchidaceae		e	E	
<i>Ionopsis utricularioides</i>		Orchidaceae		e	E	
<i>Leochilus scriptus</i>		Orchidaceae		e	E	
<i>Liparis nervosa</i>	<i>Liparis elata</i>	Orchidaceae		e	E	
<i>Lockhartia acuta</i>		Orchidaceae		e	E	
<i>Lockhartia pittieri</i>		Orchidaceae		e	E	
<i>Lycaste powellii</i>		Orchidaceae		e	E	
<i>Masdevallia livingstoneana</i>		Orchidaceae		e	E	

Species	Sp (Croat 1978)	Family	Fam (Croat 1978)	Life form	Lf (Croat 1978)	Source for additions
<i>Maxillaria porrecta</i>	**	Orchidaceae		e		[Croat 10107]
<i>Maxillaria powelli</i>		Orchidaceae		e	E	
<i>Maxillariella acervata</i>	**	Orchidaceae		e		Einzmann et al. (2015)
<i>Maxillariella alba</i>	<i>Maxillaria alba</i>	Orchidaceae		e	E	
<i>Maxillariella variabilis</i>	<i>Maxillaria variabilis</i>	Orchidaceae		e	E	
<i>Mormodes powelli</i>		Orchidaceae		e	E	
<i>Myoxanthus trachychlamys</i>	Pleurothallis trachychlamys	Orchidaceae		e	E	
<i>Notylia albida</i>		Orchidaceae		e	E	
<i>Notylia barkeri</i>		Orchidaceae		e	E	
<i>Notylia pentachne</i>		Orchidaceae		e	E	
<i>Oncidium stipitatum</i>		Orchidaceae		e	E	
<i>Ornithocephalus bicornis</i>		Orchidaceae		e	E	
<i>Ornithocephalus powellii</i>		Orchidaceae		e	E	
<i>Polystachya foliosa</i>		Orchidaceae		e	E	
<i>Polystachya masayensis</i>		Orchidaceae		e	E	
<a href="#">Prosthechea aemula</a>	**	Orchidaceae		e		[Foster s.n.]
<i>Prosthechea chacaoensis</i>	<i>Encyclia chacaoensis</i>	Orchidaceae		e	E	
<i>Prosthechea chimborazoensis</i>	<i>Encyclia chimborazoensis</i>	Orchidaceae		e	E	
<i>Prosthechea pygmaea</i>	<i>Encyclia triptera</i>	Orchidaceae		e	E	
<i>Rhetinantha friedrichsthalii</i>	<i>Maxillaria friedrichsthalii</i>	Orchidaceae		e	E	
<i>Rodriguezia lanceolata</i>	**	Orchidaceae		e		Zotz et al. (1999)
<i>Rossioglossum ampliatus</i>	<i>Oncidium ampliatus</i>	Orchidaceae		e	E	
<i>Scaphyglottis graminifolia</i>		Orchidaceae		e	E	
<i>Scaphyglottis longicaulis</i>		Orchidaceae		e	E	
<i>Scaphyglottis prolifera</i>		Orchidaceae		e	E	
<i>Sievekingia suavis</i>		Orchidaceae		e	E	
<i>Sobralia bletiae</i>	<i>Sobralia suaveolens</i>	Orchidaceae		e	E	
<i>Sobralia decora</i>	<i>Sobralia panamensis</i>	Orchidaceae		e	E	
<i>Sobralia fragans</i>		Orchidaceae		e	E	
<i>Sobralia rolfeana</i>		Orchidaceae		e	E	
<i>Specklinia brighamii</i>	<i>Pleurothallis brighamii</i>	Orchidaceae		e	E	
<i>Specklinia grobyi</i>	<i>Pleurothallis grobyi</i>	Orchidaceae		e	E	
<i>Stelis crescenticola</i>		Orchidaceae		e	E	
<i>Trichocentrum capistratum</i>		Orchidaceae		e	E	
<i>Trichopilia maculata</i>		Orchidaceae		e	E	
<i>Trichopilia subulata</i>		Orchidaceae		e	E	
<i>Trigonidium egertonianum</i>		Orchidaceae		e	E	
<i>Warczewiczella lipscombiae</i>	<i>Cochleanthes lipscombiae</i>	Orchidaceae		e	E	
<i>Xylobium foveatum</i>		Orchidaceae		e	E	

Species	Sp (Croat 1978)	Family	Fam (Croat 1978)	Life form	Lf (Croat 1978)	Source for additions
<i>Peperomia ciliolibractea</i>		Piperaceae		e	E	
<i>Peperomia cordulata</i>		Piperaceae		e	E	
<i>Peperomia ebingeri</i>		Piperaceae		e	E	
<i>Peperomia elata</i>	**	Piperaceae		e		<a href="#">[Schmalzel 1406]</a>
<i>Peperomia glabella</i>		Piperaceae		e	E	
<i>Peperomia killipi</i>		Piperaceae		e	E	
<i>Peperomia macrostachya</i>		Piperaceae		e	E	
<i>Peperomia mameiana</i>		Piperaceae		e	E	
<i>Peperomia obscurifolia</i>		Piperaceae		e	E	
<i>Peperomia obtusifolia</i>		Piperaceae		e	E	
<i>Peperomia pellucida</i>	**	Piperaceae		e		<a href="#">[Schmalzel 1406]</a>
<i>Peperomia portobellensis</i>	**	Piperaceae		e		[Croat 8055]
<i>Peperomia rotundifolia</i>		Piperaceae		e	E	
<i>Peperomia tenuifolia</i>	**	Piperaceae		e		[Croat 12857]
<i>Campyloneurum angustifolium</i>	**	Polypodiaceae		e		[Croat 6281]
<i>Campyloneurum aphanophlebium</i>	<i>Polypodium occultum</i>	Polypodiaceae		e	E	
<i>Campyloneurum brevifolium</i>	**	Polypodiaceae		e		[Croat 8043]
<i>Campyloneurum costatum</i>	<i>Polypodium costatum</i>	Polypodiaceae		e	E	
<i>Campyloneurum phyllitidis</i>	<i>Polypodium phyllitidis</i>	Polypodiaceae		e	E	
<i>Microgramma percussa</i>	<i>Polypodium percussum</i>	Polypodiaceae		e	E	
<i>Microgramma persicariifolia</i>	<i>Polypodium lycopodioides</i>	Polypodiaceae		e	E	
<i>Microgramma reptans</i>	<i>Polypodium ciliatum</i>	Polypodiaceae		e	E	
<i>Niphidium crassifolium</i>	<i>Polypodium crassifolium</i>	Polypodiaceae		e	E	
<i>Niphidium oblanceolatum</i>	**	Polypodiaceae		e		[Croat 7264]
<i>Pecluma hygrometrica</i>	<i>Polypodium hygrometricum</i>	Polypodiaceae		e	E	
<i>Pecluma plumula</i>	<i>Polypodium pectinatum</i>	Polypodiaceae		e	E	
<i>Pleopeltis christensenii</i>	<i>Dicranoglossum panamense</i>	Polypodiaceae		e	E	
<i>Pleopeltis panamensis</i>	**	Polypodiaceae		e		<a href="#">[Ebinger 231]</a>
<i>Pleopeltis polypodioides</i>	<i>Polypodium polypodioides</i>	Polypodiaceae		e	E	
<i>Serpocaulon maritimum</i>	<i>Polypodium maritimum</i>	Polypodiaceae		e	E	
<i>Serpocaulon triseriale</i>	<i>Polypodium triseriale</i>	Polypodiaceae		e	E	
<i>Serpocaulon wagneri</i>	<i>Polypodium costaricense</i>	Polypodiaceae		e	E	
<i>Ananthacorus angustifolius</i>		Pteridaceae	Polypodiaceae	e	E	
<i>Polytaenium citrifolium</i>	<i>Anetium citrifolium</i>	Pteridaceae	Polypodiaceae	e	E	
<i>Vittaria graminifolia</i>		Pteridaceae	Polypodiaceae	e	E	
<i>Vittaria lineata</i>		Pteridaceae	Polypodiaceae	e	E	
<b>Not categorized as epiphytes any more:</b>						
<i>Anthurium clavigerum</i>		Araceae		he	E	

Species	Sp (Croat 1978)	Family	Fam (Croat 1978)	Life form	Lf (Croat 1978)	Source for additions
<i>Anthurium pentaphyllum</i> var. <i>bombacifolium</i>	<i>Anthurium bombacifolium</i>	Araceae		v/nv/he?	E	
<i>Monstera adansonii</i> var. <i>laniata</i>	<i>Monstera adansonii</i>	Araceae		v/nv	E	
<i>Monstera dubia</i>		Araceae		v/nv	E	
<i>Monstera pinnatipartita</i>	<i>Monstera dilacerata</i>	Araceae		v/nv	E	
<i>Philodendron alliodorum</i>	**	Araceae		v/nv		[Weichgrebe s.n.]
<i>Philodendron fragrantissimum</i>		Araceae		v/nv/he?	E	
<i>Philodendron hederaceum</i> var. <i>hederaceum</i>	<i>Philodendron scandens</i>	Araceae		v/nv	E	
<i>Philodendron immixtum</i>	<i>Philodendron inconcinnum</i>	Araceae		v/nv	E	
<i>Philodendron inaequilaterum</i>		Araceae		v/nv	E	
<i>Philodendron jacquini</i>	<i>Philodendron hederaceum</i>	Araceae		v/nv	E	
<i>Philodendron opacum</i>	<i>Philodendron nervosum</i>	Araceae		v/nv	E	
<i>Philodendron panamense</i>		Araceae		v/nv	E	
<i>Philodendron pterotum</i>		Araceae		v/nv	E	
<i>Philodendron radiatum</i>		Araceae		he	E	
<i>Philodendron rayanum</i>	**	Araceae		v/nv		[Weichgrebe s.n.]
<i>Philodendron rigidifolium</i>	<i>Philodendron guttiferum</i>	Araceae		v/nv	E	
<i>Philodendron sagittifolium</i>		Araceae		v/nv	E	
<i>Philodendron tripartitum</i>		Araceae		he	E	
<i>Rhodospatha wendlandii</i>		Araceae		v/nv	E	
<i>Syngonium erythrophyllum</i>		Araceae		v/nv	E	
<i>Syngonium podophyllum</i>		Araceae		v/nv	E	
<i>Clusia flavida</i>	<i>Havetiopsis flexilis</i>	Clusiaceae	Guttiferae	he	HE	
<i>Clusia minor</i>	**	Clusiaceae	Guttiferae	he		Zotz et al. (1997)
<i>Clusia peninsulae</i>	**	Clusiaceae	Guttiferae	he		[Croat 14050]
<i>Clusia uvitana</i>	<i>Clusia odorata</i>	Clusiaceae	Guttiferae	he	HE	
<i>Mickelia nicotianifolia</i>	<i>Bolbittis nicotianifolia</i>	Dryopteridaceae	Polypodiaceae	v	E	
<i>Polybotrya caudata</i>	<i>Polybotrya villosula</i>	Dryopteridaceae	Polypodiaceae	v	E	
<i>Lomariopsis vestita</i>		Lomariopsidaceae	Polypodiaceae	he	E	
<i>Maxonia apiifolia</i>		Lomariopsidaceae	Polypodiaceae	v	HE	
<i>Marcgravia nepenthoides</i>		Marcgraviaceae		he	E	
<i>Souroubea sympetala</i>		Marcgraviaceae		he	E	
<i>Ficus colubrinae</i>		Moraceae		he	HE	
<i>Ficus curtipes</i>	<i>Ficus obtusifolia</i>	Moraceae		he	HE	
<i>Ficus dugandii</i>		Moraceae		he	HE	
<i>Ficus maxima</i>	<i>Ficus citrifolia</i>	Moraceae		he	HE	
<i>Ficus nymphaeifolia</i>		Moraceae		he	HE	
<i>Ficus obtusiuscula</i>	<i>Ficus perforata</i>	Moraceae		he	HE	
<i>Ficus paraensis</i>		Moraceae		he	HE	
<i>Ficus pertusa</i>		Moraceae		he	HE	

<i>Species</i>	Sp (Croat 1978)	Family	Fam (Croat 1978)	Life form	Lf (Croat 1978)	Source for additions
<i>Ficus popenoei</i>		Moraceae		he	HE	
<i>Ficus trigonata</i>		Moraceae		he	HE	
<i>Vanilla planifolia</i>	<i>Vanilla fragrans</i>	Orchidaceae		v	E	
<i>Vanilla pompona</i>		Orchidaceae		v	E	
<i>Cosmibuena grandiflora</i>	<i>Cosmibuena skinneri</i>	Rubiaceae		he	HE	
<i>Cosmibuena macrocarpa</i>	**	Rubiaceae		he		[Croat NL]
<i>Markea ulei</i>		Solanaceae		he	HE	
<i>Boehmeria cylindrica</i>		Urticaceae		acc	E	
<i>Coussapoa asperifolia subsp. magnifolia</i>	<i>Coussapoa magnifolia</i>	Urticaceae	Moraceae	he	E	
<i>Coussapoa villosa</i>	<i>Coussapoa panamensis</i>	Urticaceae	Moraceae	he	E	



## References

Dressler, R. L. 1993. *Field Guide to the Orchids of Costa Rica and Panama*. Ithaca, N.Y.: Cornell University Press.

Table S1. Updated list of epiphyte species on BCI. Nomenclature follows WFO (2020) for flowering plants and Hassler and Schmitt (2019) for ferns and lycopods. Apart from numerous changes in species name and family assignment, differences to Croat (1978) are also due to a divergent concept of “epiphyte” (see Zotz et al. (2021) for definitions). For transparency there are two columns for life forms (LF) (E, e = epiphyte, HE, he = hemiepiphyte, nv = nomadic vine, v = vine, FE, fe = facultative epiphytes, acc = accidental epiphyte). Species not covered in Croat (1978) are marked “\*\*” and the last column gives references. Quite a few of these records were actually collected before 1978, but were not included in the monograph due to delayed identifications. Epiphyte species listed in the BCI checklist for plants (<https://stricollections.org/portal/checklists/>) are only included when records are backed up by a voucher [author, collection number] collected on BCI. Vouchers collected before 1950 were not considered. A species of the genus *Chysis* has already been reported by Dressler (1993) – a flowering plant is needed for species identification.

[Hassler, M. and B. Schmitt. 2019. "Checklist of Ferns and Lycophytes of the World" Version 8.11. - November 2019. https://worldplants.webarchiv.kit.edu/ferns/](https://worldplants.webarchiv.kit.edu/ferns/)

WFO. 2020. World Flora Online. <http://www.worldfloraonline.org> (accessed 07 February 2020).

Zotz, G., P. Bermejo and H. Dietz. 1999. The Epiphyte Vegetation of *Annona glabra* on Barro Colorado Island, Panama. *Journal of Biogeography* 26:761-776.

Zotz, G., S. Patiño and M. T. Tyree. 1997. CO<sub>2</sub> Gas Exchange and the Occurrence of CAM in Tropical Woody Hemiepiphytes. *Flora* 192:143-150.

Zotz, G., P. Weigelt, M. Kessler, H. Kreft and A. Taylor. 2021. Epilist 1.0 - a Global Checklist of Vascular Epiphytes. *Ecology* 102:e03326.