

Epiphytes and Lithophytes of Northern BELIZE

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¹Marie Selby Botanical Gardens, ²Ian Anderson's Caves Branch Botanical Garden, ³Centro de Investigación de Yucatán

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Flower and seed-bearing Plants



Anthurium gracile
(Araceae; MP)



Anthurium gracile
(Araceae; EB)



Anthurium pentaphyllum
(Araceae; EB)



Anthurium pentaphyllum
(Araceae; EB)



Anthurium scandens
(Araceae; EB)



Anthurium scandens
(Araceae; EB)



Anthurium schlechtendalii
(Araceae; BH)



Anthurium schlechtendalii
(Araceae; BH)



Anthurium verapazense
(Araceae; EB)



Anthurium verapazense
(Araceae; EB)



Monstera acuminata
(Araceae; BH; entire leaf form)



Monstera acuminata
(Araceae; BH; split-leaf form)



Monstera acacoyaguensis
(Araceae; EB)



Monstera acacoyaguensis
(Araceae; EB)



Monstera pinnatipartita
(Araceae; DA)



Monstera pinnatipartita
(Araceae; DA)



Philodendron jacquinii
(Araceae; Steven Paton, Smithsonian Tropical Research Institute)



Philodendron jacquinii
(Araceae; Steven Paton, Smithsonian Tropical Research Institute)



Philodendron hederaceum
(Araceae; EK)

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Philodendron hederaceum
(Araceae; EK)



Philodendron radiatum
(Araceae; BH)



Philodendron radiatum
(Araceae; BH)



Philodendron smithii
(Araceae; BH)



Philodendron smithii
(Araceae; BH)



Syngonium angustatum
(Araceae; EM)



Syngonium angustatum
(Araceae; BH)



Syngonium angustatum
(Araceae; EB)



Syngonium podophyllum
(Araceae; BH)



Syngonium podophyllum
(Araceae; BH)



Oreopanax gutemalensis
(Araliaceae; EB)



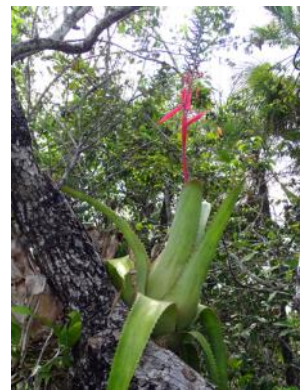
Oreopanax gutemalensis
(Araliaceae; EB)



Begonia sericoneura
(Begoniaceae; EB)



Begonia sericoneura
(Begoniaceae; EB)



Aechmea bracteata
(Bromeliaceae; BH)



Aechmea bracteata
(Bromeliaceae; EB)



Aechmea bromelifolia
(Bromeliaceae; MP)



Aechmea bromelifolia
(Bromeliaceae; PN)



Aechmea tillandsioides
(Bromeliaceae; BH)



Aechmea tillandsioides
(Bromeliaceae; BH)

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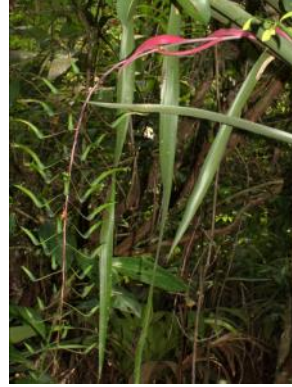
Androlepis skinneri
(Bromeliaceae; EB)



Androlepis skinneri
(Bromeliaceae; EB)



Billbergia viridiflora
(Bromeliaceae; EB)



Billbergia viridiflora
(Bromeliaceae; EB)



Catopsis berteroniana
(Bromeliaceae; BH)



Catopsis berteroniana
(Bromeliaceae; EB)



Catopsis floribunda
(Bromeliaceae; BH)



Catopsis morreniana
(Bromeliaceae; EB)



Catopsis morreniana
(Bromeliaceae; WC)



Catopsis nutans
(Bromeliaceae; MP)



Catopsis nutans
(Bromeliaceae; EB)



Catopsis sessiliflora
(Bromeliaceae; EB)



Catopsis sessiliflora
(Bromeliaceae; EB)



Guzmania lingulata
(Bromeliaceae; EB)



Guzmania lingulata
(Bromeliaceae; EB)



Lemeltonia monadelpha
(Bromeliaceae; EB)



Lemeltonia monadelpha
(Bromeliaceae; EB)



Tillandsia balbisiana
(Bromeliaceae; EB)



Tillandsia balbisiana
(Bromeliaceae; EB)



Tillandsia brachycaulos
(Bromeliaceae; EB)

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Tillandsia brachycaulos
(Bromeliaceae; EB)



Tillandsia bulbosa
(Bromeliaceae; BH)



Tillandsia bulbosa
(Bromeliaceae; EB)



Tillandsia dasyliirifolia
(Bromeliaceae; BH)



Tillandsia dasyliirifolia
(Bromeliaceae; BH)



Tillandsia fasciculata
(Bromeliaceae; EM)



Tillandsia fasciculata
(Bromeliaceae; EB)



Tillandsia festucoides
(Bromeliaceae; BH)



Tillandsia festucoides
(Bromeliaceae; EB)



Tillandsia flexuosa
(Bromeliaceae; DA)



Tillandsia flexuosa
(Bromeliaceae; PN; Panama)



Tillandsia izabalensis
(Bromeliaceae; EB)



Tillandsia izabalensis
(Bromeliaceae; BH)



Tillandsia jaguactalensis
(Bromeliaceae; EB)



Tillandsia jaguactalensis
(Bromeliaceae; EB)



Tillandsia juncea
(Bromeliaceae, EB)



Tillandsia juncea
(Bromeliaceae, EB)



Tillandsia maya
(Bromeliaceae; EB)



Tillandsia maya
(Bromeliaceae; EB)



Tillandsia polystachia
(Bromeliaceae; BH)

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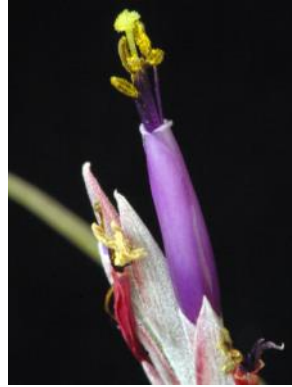
Tillandsia pruinosa
(Bromeliaceae; PN)



Tillandsia pruinosa
(Bromeliaceae; PN)



Tillandsia pseudobaileyi
(Bromeliaceae; DA)



Tillandsia pseudobaileyi
(Bromeliaceae; PN)



Tillandsia schiedeana
(Bromeliaceae; EB)



Tillandsia schiedeana
(Bromeliaceae; EB)



Tillandsia streptophylla
(Bromeliaceae; EM)



Tillandsia streptophylla
(Bromeliaceae; EB)



Tillandsia usneoides
(Bromeliaceae; BH)



Tillandsia usneoides
(Bromeliaceae; WC)



Tillandsia utriculata
(Bromeliaceae; EB)



Tillandsia utriculata
(Bromeliaceae; EB)



Tillandsia variabilis
(Bromeliaceae; PN)



Tillandsia variabilis
(Bromeliaceae; PN)



Vriesea heliconioides
(Bromeliaceae; EB)



Vriesea heliconioides
(Bromeliaceae; EB)



Werauhia gladioliflora
(Bromeliaceae; BH)



Werauhia gladioliflora
(Bromeliaceae; BH)



Epiphyllum hookeri
(Cactaceae; DT)



Epiphyllum hookeri
(Cactaceae; EG)

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Epiphyllum phyllanthus
(Cactaceae; EB)



Epiphyllum phyllanthus
(Cactaceae; EB)



Pseudorhipsalis ramosa
(Cactaceae; BH)



Pseudorhipsalis ramosa
(Cactaceae; BH)



Selenicereus grandiflorus
(Cactaceae; BH)



Selenicereus grandiflorus
(Cactaceae; BH)



Selenicereus testudo
(Cactaceae; BH)



Selenicereus testudo
(Cactaceae; EB)



Selenicereus tricae
(Cactaceae; BH)



Selenicereus tricae
(Cactaceae; BH)



Selenicereus undatus
(Cactaceae; DA)



Selenicereus undatus
(Cactaceae; DA)



Clusia sp.
(Clusiaceae; BH)
2 or 3 species are found in N Belize



Clusia sp.
(Clusiaceae; BH)



Alsobia baroniae
(Gesneriaceae; WC)



Alsobia baroniae
(Gesneriaceae; WC)



Codonanthopsis crassifolia
(Gesneriaceae; EB)



Codonanthopsis crassifolia
(Gesneriaceae; EB)



Ficus sp.
(Moraceae; BH)
9 species are found in N Belize



Ficus sp.
(Moraceae; BH)

Epiphytes and Lithophytes of Northern BELIZE

Bruce K. Holst, David Amaya, Ella Baron, Marvin Paredes, Sayuri Tzul & Germán Carnevali



Acianthera hondurensis
(Orchidaceae; EB)



Acianthera hondurensis
(Orchidaceae; EB)



Acianthera tikalensis
(Orchidaceae; EB)



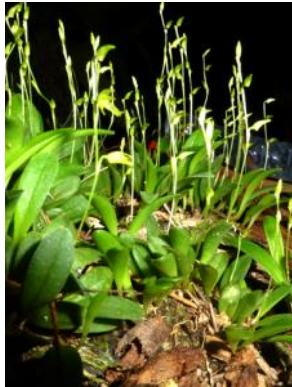
Acianthera tikalensis
(Orchidaceae; EB)



Anathallis lewisiae
(Orchidaceae; BH)



Anathallis lewisiae
(Orchidaceae; WC)



Anathallis yucatanensis
(Orchidaceae; MP)



Anathallis yucatanensis
(Orchidaceae; MP)



Brassavola appendiculata
(Orchidaceae; EB)



Brassavola appendiculata
(Orchidaceae; EB)



Brassavola grandiflora
(Orchidaceae; BH)



Brassavola grandiflora
(Orchidaceae; EB)



Brassia caudata
(Orchidaceae; EB)



Brassia caudata
(Orchidaceae; EB)



Brassia maculata
(Orchidaceae; BH)



Brassia maculata
(Orchidaceae; EB)



Campylocentrum fasciola
(Orchidaceae; DA)



Campylocentrum fasciola
(Orchidaceae; DP)



Campylocentrum poeppigii
(Orchidaceae; XX)



Campylocentrum poeppigii
(Orchidaceae; XX)

Epiphytes and Lithophytes of Northern BELIZE

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Catasetum integerrimum, ♂ flowers
(Orchidaceae; EB)



Catasetum integerrimum, ♀ flowers
(Orchidaceae; EB)



Caularthron bilamellatum
(Oechidaee; DA)



Caularthron bilamellatum
(Oechidaee; DA)



Christensonella uncata
(Orchidaceae; EB)



Christensonella uncata
(Orchidaceae; EB)



Cohniella ascendens
(Orchidaceae; BH)



Cohniella ascendens
(Orchidaceae; DA)



Coryanthes picturata
(Orchidaceae; EB)



Coryanthes picturata
(Orchidaceae; EB)



Dimerandra emarginata
(Orchidaceae; EB)



Dimerandra emarginata
(Orchidaceae; EB)



Dryadella linearifolia
(Orchidaceae; EB)



Dryadella linearifolia
(Orchidaceae; EB)



Encyclia alata
(Orchidaceae; EB)



Encyclia alata
(Orchidaceae; EB)



Encyclia bractescens
(Orchidaceae; EB)



Encyclia bractescens
(Orchidaceae; EB)



Encyclia chloroleuca
(Orchidaceae; MP)



Encyclia chloroleuca
(Orchidaceae; EB)

Epiphytes and Lithophytes of Northern BELIZE

9

Bruce K. Holst, David Amaya, Ella Baron, Marvin Paredes, Sayuri Tzul & Germán Carnevali



Encyclia guatemalensis
(Orchidaceae; BH)



Encyclia guatemalensis
(Orchidaceae; EM)



Epidendrum cardiophorum
(Orchidaceae; EB)



Epidendrum cardiophorum
(Orchidaceae; EB)



Epidendrum ciliare
(Orchidaceae; EB)



Epidendrum ciliare
(Orchidaceae; EB)



Epidendrum cristatum
(Orchidaceae; BH)



Epidendrum cristatum
(Orchidaceae; EB)



Epidendrum flexuosum
(Orchiaceae; SC)



Epidendrum flexuosum
(Orchiaceae; EB)



Epidendrum galeottianum
(Orchidaceae; EB)



Epidendrum galeottianum
(Orchidaceae; BH)



Epidendrum isthmi
(Orchidaceae; WC)



Epidendrum isthmi
(Orchidaceae; WC)



Epidendrum macroclinium
(Orchidaceae; EB)



Epidendrum macroclinium
(Orchidaceae; MP)



Epidendrum martinezii
(Orchidaceae; EB)



Epidendrum martinezii
(Orchidaceae; WC)



Epidendrum nocturnum
(Orchidaceae; BH)



Epidendrum nocturnum
(Orchidaceae; MP)



Epidendrum stamfordianum
(Orchidaceae; BH)



Epidendrum stamfordianum
(Orchidaceae; EB)



Epidendrum strobiliferum
(Orchidaceae; EB)



Epidendrum strobiliferum
(Orchidaceae; EB)



Erycina pusilla
(Orchidaceae; EB)



Erycina pusilla
(Orchidaceae; EB)



Galeandra arundinis
(Orchidaceae; WC)



Galeandra arundinis
(Orchidaceae; MP)



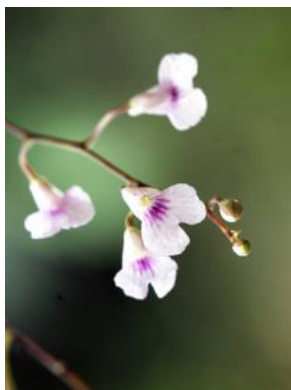
Heterotaxis sessilis
(Orchidaceae; EB)



Heterotaxis sessilis
(Orchidaceae; EB)



Ionopsis utricularioides
(Orchidaceae; BH)



Ionopsis utricularioides
(Orchidaceae; BH)



Isochilus carnosiflorus
(Orchidaceae; EB)



Isochilus carnosiflorus
(Orchidaceae; EB)



Lophiaris lindenii
(Orchidaceae; DA)



Lophiaris lindenii
(Orchidaceae; DA)



Lophiaris lurida
(Orchidaceae; EB)



Lophiaris lurida
(Orchidaceae; EB)



Lophiaris oerstedii
(Orchidaceae; XX)



Lophiaris oerstedii
(Orchidaceae; EB)

Epiphytes and Lithophytes of Northern BELIZE

Bruce K. Holst, David Amaya, Ella Baron, Marvin Paredes, Sayuri Tzul & Germán Carnevali



Lophiaris teaboana
(Orchidaceae; XX)



Lophiaris teaboana
(Orchidaceae; XX)



Lycaste cochleata
(Orchidaceae; EB)



Lycaste cochleata
(Orchidaceae; EB)



Maxillariella tenuifolia
(Orchidaceae; EB)



Maxillariella tenuifolia
(Orchidaceae; DA)



Maxillariella variabilis
(Orchidaceae; EB)



Maxillariella variabilis
(Orchidaceae; EB)



Mormolyca hedwigiae
(Orchidaceae; EB)



Mormolyca hedwigiae
(Orchidaceae; WC)



Mormolyca ringens
(Orchidaceae; BH)



Mormolyca ringens
(Orchidaceae; WC)



Myrmecophila brysiana
(Orchidaceae; EB)



Myrmecophila brysiana
(Orchidaceae; EB)



Myrmecophila christinae
(Orchidaceae; EB)



Myrmecophila christinae
(Orchidaceae; EB)



Nemaconia striata
(Orchidaceae; BH)



Nemaconia striata
(Orchidaceae; EB)



Notylia barkeri
(Orchidaceae; EB)



Notylia barkeri
(Orchidaceae; BH)

Epiphytes and Lithophytes of Northern BELIZE

12

Bruce K. Holst, David Amaya, Ella Baron, Marvin Paredes, Sayuri Tzul & Germán Carnevali



Oncidium sphacelatum
(Orchidaceae; EK)



Oncidium sphacelatum
(Orchidaceae; EB)



Ornithocephalus inflexus
(Orchidaceae; EB)



Ornithocephalus inflexus
(Orchidaceae; EB)



Platystele stenostachya
(Orchidaceae; EB)



Platystele stenostachya
(Orchidaceae; WC)



Polystachya caracasana
(Orchidaceae; EB)



Polystachya caracasana
(Orchidaceae; EB)



Polystachya clavata
(Orchidaceae; EB)



Polystachya clavata
(Orchidaceae; WC)



Prosthechea boothiana
(Orchidaceae; BH)



Prosthechea boothiana
(Orchidaceae; EB)



Prosthechea cochleata
(Orchidaceae; EB)



Prosthechea cochleata
(Orchidaceae; EB)



Rhetinantha friedrichsthallii
(Orchidaceae; EB)



Rhetinantha aciantha
(Orchidaceae; DA)



Rhetinantha aciantha
(Orchidaceae; DA)



Rhetinantha friedrichsthallii
(Orchidaceae; EB)



Rhetinantha friedrichsthallii
(Orchidaceae; EB)



Rhyncholaelia digbyana
(Orchidaceae; BH)



Rhyncholaelia digbyana
(Orchidaceae; EB)



Scaphyglottis behrii
(Orchidaceae; MP)



Scaphyglottis behrii
(Orchidaceae; MP)



Scaphyglottis leucantha
(Orchidaceae; DA)



Scaphyglottis leucantha
(Orchidaceae; DA)



Sobralia fragrans
(Orchidaceae; DA)



Sobralia fragrans
(Orchidaceae; DA)



Sobralia macrantha
(Orchidaceae; EB)



Sobralia macrantha
(Orchidaceae; EB)



Specklinia brighamii
(Orchidaceae; BH)



Specklinia brighamii
(Orchidaceae; WC)



Specklinia grobyi
(Orchidaceae; EK)



Specklinia grobyi
(Orchidaceae; EB)



Specklinia tribuloides
(Orchidaceae; EB)



Specklinia tribuloides
(Orchidaceae; EB)



Stelis ciliaris
(Orchidaceae; EB)



Stelis ciliaris
(Orchidaceae; EB)



Stelis oxypetala
(Orchidaceae;)



Stelis oxypetala
(Orchidaceae; EB)



Trichosalpinx blaisdellii
(Orchidaceae; BH)

Epiphytes and Lithophytes of Northern BELIZE

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Trichosalpinx blaisdellii
(Orchidaceae; BH)



Trigonidium egertonianum
(Orchidaceae; EK)



Trigonidium egertonianum
(Orchidaceae; EK)



Vanilla insignis
(Orchidaceae; PN; Mexico)



Vanilla insignis
(Orchidaceae; PN; Mexico)



Peperomia angustata
(Piperaceae; EB)



Peperomia angustata
(Piperaceae; EB)



Peperomia glabella
(Piperaceae; EB)



Peperomia glabella
(Piperaceae; EB)



Peperomia magnoliifolia
(Piperaceae; BH)



Peperomia magnoliifolia
(Piperaceae; BH)



Peperomia obtusifolia
(Piperaceae; EB)



Peperomia obtusifolia
(Piperaceae; BH)



Peperomia portobellensis
(Piperaceae; MP)



Peperomia portobellensis
(Piperaceae; EB)



Peperomia rotundifolia
(Piperaceae; EB)



Peperomia rotundifolia
(Piperaceae; BH)



Coussapoa oligocephala
(Urticaceae; EB)
Shrubby hemiepiphyte



Coussapoa oligocephala
(Urticaceae; EB)
Shrubby hemiepiphyte

Spore-bearing Plants



Anemia adiantifolia
(Anemiaceae; BH)



Anemia adiantifolia
(Anemiaceae; BH)



Asplenium pumilum
(Aspleniaceae; BH)



Asplenium pumilum
(Aspleniaceae; BH)



Asplenium serratum
(Aspleniaceae; BH)



Asplenium serratum
(Aspleniaceae; BH)



Nephrolepis biserrata
(Nephrolepidaceae; EB)



Nephrolepis biserrata
(Nephrolepidaceae; EB)



Campyloneurum phyllitidis
(Polypodiaceae; EM)



Campyloneurum phyllitidis
(Polypodiaceae; EM)
Two rows of sori per vein



Cochlidium linearifolium
(Polypodiaceae; BH)



Cochlidium linearifolium
(Polypodiaceae; BH)



Microgramma lycopodioides
(Polypodiaceae; BH)
Sterile leaves



Microgramma lycopodioides
(Polypodiaceae; EB)
Fertile leaves



Microgramma nitida
(Polypodiaceae; EM)
Sterile leaves



Microgramma nitida
(Polypodiaceae; EM)
Fertile leaves



Niphidium crassifolium
(Polypodiaceae; BH)



Niphidium crassifolium
(Polypodiaceae; BH)
One row of sori per vein



Pecluma plumula
(Polypodiaceae; SC)



Pechuma plumula
(Polypodiaceae; BH)



Phlebodium decumanum
(Polypodiaceae; EB)



Phlebodium decumanum
(Polypodiaceae; BH)



Pleopeltis polypodioides
(Polypodiaceae; BH)



Pleopeltis polypodioides
(Polypodiaceae; BH)



Serpocaulon triseriale
(Polypodiaceae; SC)



Serpocaulon triseriale
(Polypodiaceae; BH)



Psilotum nudum
(Psilotaceae; DA)



Psilotum nudum
(Psilotaceae; DA)



Vittaria sp.
(Vittariaceae; BH)



Vittaria sp.
(Vittariaceae; BH)

Northern Belize here is considered to be the three northern political districts, Belize, Orange Walk, and Corozal, and the northern Cayo lowlands (< 200 m elevation; basically north of the Western Highway). The region is markedly drier than the humid, mountainous south, which strongly influences its epiphyte composition. In the north, drought-tolerant epiphytes abound, especially cacti, bromeliads, and orchids. Not so much in terms of species numbers, but of numbers of individuals. As defined here, northern Belize is home to approximately 162 species of epiphytes and lithophytes.

Of the three districts, Belize and Orange Walk have roughly the same number with just over 70 each, and Corozal with nearly 40. Northern Cayo adds an additional 20 or so species. Many of these are found in more than one northern district, as well, the common

species have broader distributions into lowlying areas of the south. Other groups such as aroids favor more humid environments and are found in more abundance in northern Cayo. Pteridophytes are few. With slightly less than half of the area of the country, northern Belize harbors only 25% of the epiphyte species known in Belize. However, epiphyte communities in certain areas, such as the “bajo” forests of the Chan Chich and El Tigre regions, and the mangrove forests of Ambergris Caye reach relatively high numbers of species and biomass representation.

Epiphytes and lithophytes not pictured that have been recorded for this area are: *Anthurium lucens*, *Philodendron schottii* ssp. *talamancae*, *Syngonium neglectum*, *Selenicereus donkelaarii*, and *Selenicereus macdonaldiae*.

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