Family Sonneratiaceae

Sonneratia alba J. Smith

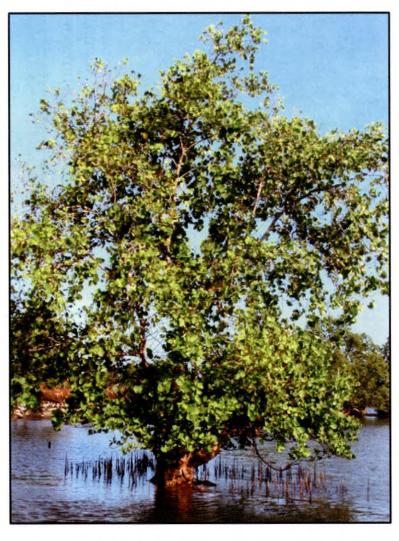
Local name: pagatpat







Pioneering species of medium to large trees that co-occur with *A. marina* in fringing mangroves, but are dominant in more coralline-sandy substrates. Leaves are obovate to rounded, but those of seedlings and lowermost branches ~1 m aboveground are more elongated (see opposite, bottom left photo). The short-lived white flowers open at dusk and drop at dawn – standing in a *Sonneratia alba* grove as numerous white filaments fall from the canopy with the early morning breeze is a magical experience. This species hosts colonies of fireflies – a northern Agusan settlement was called Masawa (now Masao), meaning bright, from the insects' sparkling lights that greeted seafarers on moonless nights. Likewise, the Spanish name of Siquijor Is. was Isla del Fuego, referring to the *pagatpat*-lined shore seemingly on fire. Past uses include housing construction materials, furnishing, and musical instruments. Due to salt content, woodwork required copper nails and screws.



General

Substrate: coralline-sandy, muddy

Tidal level: low

Found with: A. marina,

Rhizophora spp.

Form

Shape:

tree 5-20 m

Height: DBH:

20-120 cm

Bark:

rough, brown; fissured

and flaky

Aerial roots:

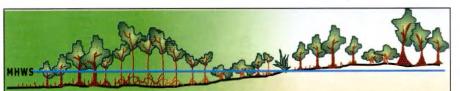
conical, corky

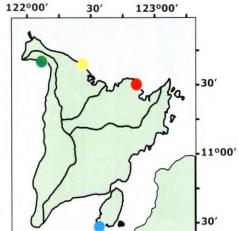
pneumatophores

Sampling Taklong Is., Guimaras sites: Pan-ay, Capiz
Kalibo, Aklan

Pandan, Antique

FRUITING JFMAMJJASOND

















BASE



ATTACHMEN'

BLADE SHAPE

E SHAPE MA

ARGIN

EX

Leaves

Arrangement: simple, opposite
Blade shape: obovate to rounded
Margin: entire - smooth

Apex: round Base: round

Upper surface: smooth, dark green smooth, light green size: 8 (6-12) cm long, 7 (3-11) cm wide

Others: leathery, succulent, brittle

Flowers

Inflorescence: cyme, terminal Petals: 4-6, white, thin Sepals: 4-7 fused, green

Stamens: 300+ white filaments,

3-5 cm long

Size: 5-7 cm long,

6-9 cm diameter

Others: long 5-6 cm style, light green

Fruits

Shape: rounded
Color: dark green
Texture: smooth
Size: 3-4 cm high,

3-5 cm diameter

Others: contain many V- and

U-shaped seeds (see inset)











Family Sonneratiaceae

Sonneratia caseolaris (L.) Engl.

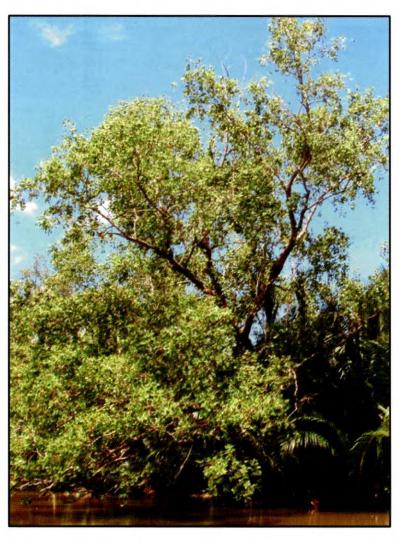
Local names: pedada, kalong-kalong







Prominent trees on the muddy substrate of low salinity upstream riverbanks; closely associated with N. fruticans. Sonneratia caseolaris can be distinguished from S. alba (with which it forms hybrids) by bigger pneumatophores that reach 1 m long when mature, bright red flowers, and elongated leaves with reddish petioles. Like S. alba, fireflies are also found on S. caseolaris. Heavy fruits cause the drooping branches to bend some more (see opposite, bottom left photo). Pneumatophores are used as floats for fishing nets and as corks (hence the vernacular term duol). Branches are used as firewood, the leaves as forage for goats and cows, and the bark yields tannin. The slightly acidic fruit is eaten raw or added to soups for souring, or made into vinegar. In the past, the sap was applied to the skin as cosmetic; other uses, e.g., firewood and forage, are similar to S. alba.



General

Substrate: muddy Tidal level: high

N. fruticans Found with:

Form

Shape: tree Height: 6-20 m DBH: 15-50 cm

Bark: rough, light to dark

brown; cracked (old); lenticellate (young)

pneumatophores long, Aerial roots:

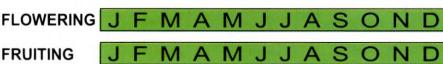
slender and pointed like

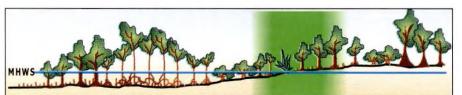
a spear

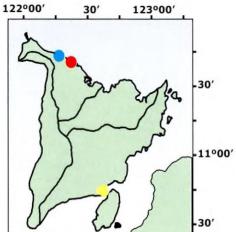
Sampling • Ibajay, Aklan

sites: • Makato River, Aklan

Jaro, Iloilo





















Leaves

simple, opposite Arrangement:

Blade shape: elliptic

Margin: entire - smooth

Apex: acute Base: acute

Upper surface: smooth, light green Undersurface: smooth, light green Size: 8 (6-12) cm long,

4 (3-7) cm wide

thin, petiole base reddish, Others:

leaf twigs drooping

Flowers

Inflorescence: cyme, terminal Petals: 4-6, red, thin Sepals 4-7 lobed, green

Stamens: numerous (300+)filaments

Size: 6-9 cm long,

5-9 cm diameter

Others: filaments with red base

and white tips

Fruits

Shape: rounded light green Color: Texture: smooth, shiny Size: 2.8-4 cm high,

4-8 cm diameter

Others: sour-sweet smell when ripe,

many seeds smaller than

S. alba (see inset)











Family Sonneratiaceae

Sonneratia ovata Backer

Local name: pedada







Shorter trees that grow on firm mud in almost freshwater habitats located considerable distances from the shore; closely associated with *N. fruticans*. Areas may have access to seawater through seepage during months of higher tide. The white flowers of *Sonneratia ovata* are similar to those of *S. alba*, but the filaments fall from the tree earlier in the morning before sunrise. Leaves are bigger and more rounded, and fruits are much larger than those of *S. alba* and *S. caseolaris*. Because their delicious sweet-sour taste is much appreciated by children and local folk, fruits are plucked from trees as soon as they mature, as in Pan-ay, Capiz (see opposite page, bottom left photo). Other differentiating characters are listed in Table 7.



General

Substrate: muddy Tidal level: high

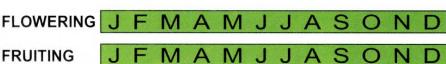
Found with: *N. fruticans*

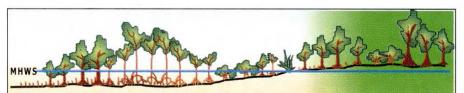
Form

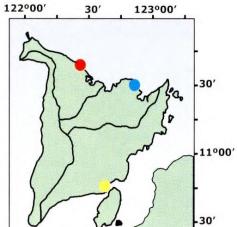
Shape: tree
Height: 5-10 m
DBH: 15-30 cm
Bark: rough, brown

Aerial roots: conical pneumatophores

Sampling Pan-ay, Capiz sites: Kalibo, Aklan Iloilo River, Iloilo



















Leaves

simple, opposite Arrangement: Blade shape: round to ovate entire - smooth Margin:

Apex: round Base: round

Upper surface: smooth, dark green Undersurface: smooth, green 9 (6-11) cm long, Size: 6 (5-9) cm wide

petiole base reddish Others:

Flowers

Inflorescence: cyme, terminal Petals: white, thin

Sepals: 5-6 lobed, thick, rough numerous filaments, Stamens:

white (300+)

Size: 6-8 cm long

Fruits

Shape: rounded Color: dark green Texture: smooth Size:

3-9 cm high,

5-6 cm diameter fleshy; sour-sweet smell Others:

> when ripe; seeds are irregular granules larger than S. caseolaris (inset)









