

Goniothalamus australis Jessup

Family:

Annonaceae

Jessup, L.W. (1984) *Austrobaileya* 2(3): 224. Type: Lamins Hill, ca 12 km E of Malanda, 17 deg 23 S, 145 deg 42 E, 12 Dec 1984, L.W. Jessup 764 (holo: BRI, iso:QRS, A, K, L, MO, P, U).

Common name:

China Pine

Stem

White granular and brown fibrous stripes in the outer blaze. Blaze finely layered.

Leaves

Leaf blades about 7-12 x 3-5 cm. Leaf blade margin slightly recurved, particularly towards the base. Twig bark strong and fibrous when stripped, emitting a slightly aromatic odour. Lateral veins scarcely visible but forming loops inside the blade margin. Terminal buds and young shoots clothed in rusty brown, prostrate hairs. Oil dots visible with a lens.

Flowers

Sepals valvate, about 7-8 x 6-6.5 mm. Outer petals about 25-35 x 16-21 mm. Inner petals about 10-12 x 7-9 mm. Inner petals cohering along the margins to form a cap over the stamens and ovaries. Anther connective +/- swollen at the apex and concealing the anthers. Ovaries 9-11, ovules 4-8 per ovary.

Fruit

Fruiting carpels shortly stalked, carpels about 3-6 x 1.5-2.5 cm. Seeds about 15-20 x 10 mm, two to six per carpel. Testa smooth. Embryo minute.

Seedlings

First pair of leaves alternate, lanceolate, glabrous. Oil dots visible with a lens. Axillary buds clothed in rusty red hairs. At the tenth leaf stage: leaves lanceolate, glabrous on the upper surface; oil dots very small, just visible with a lens. Axillary and terminal buds clothed in rusty red hairs. Seed germination time 116 days.

Distribution and Ecology

Endemic to NEQ, restricted to the area between Cooktown and Ravenshoe. Altitudinal range from 600-1200 m. Grows in upland rain forest.

Natural History & Notes

Fruit eaten by Cassowaries. Cooper & Cooper (1994).

Food plant for the larval stages of the Green Spotted Triangle, Pale Green Triangle and the Green Triangle Butterflies. Sankowsky & Neilsen (2000).

RFK Code

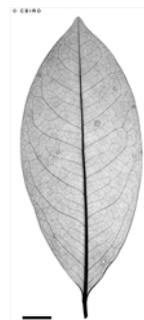
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Leaves and Flowers. © B. Gray



Fruit, side views, longitudinal and cross section, seeds. © W. T. Cooper



Scale bar 10mm. © CSIRO



Habit, flower, anthers and carpels, fruit, seedling. © CSIRO



Cotyledon stage, durian germination. © CSIRO



10th leaf stage. © CSIRO

