



## *Ormosia yimenensis* sp.nov (Fabaceae) from Yunnan Province of China

Lilan Deng

The Faculty of Forestry, Southwest Forestry University (SWFU), Kunming, 650224, Yunnan, China

### Abstract

Described and illustrated in this paper is *Ormosia yimenensis* LiLan Deng, an evidently localized endemic of Karst forest from center of Yunnan Province of China. This new species would key to *O.xylocarpa* Chun ex L. Chen, from which it is readily distinguished by leaflets (1-)2-3 per side, apexe acuminate, raceme mostly axillary, sparsely panicles terminal, valves of legumen super fulvobomentose.

**Key words:**-*Ormosia yimenensis*, New species, China.

*A species affinis Ormosia xylocarpa* Chun ex L. Chen, sed foliolis (1-)2-3 jugatibus, apice acuminates, racemicibus axillibus, sparse paniculis terminalis, valvis leguminosis supra fulvobomentosis differ<sup>[1]</sup>.

Type: Longqian forest park, Yimen county, Yuxi city, Yunnan province, China, 1629m alt., Lilan Deng, YM13020, May 20<sup>th</sup> 2013, (in the herbarium of SWFU). Paratypes: Jiuxiang landscape spot, Yiliang county, Kunming city, Yunnan province, China, 1600m alt., Lilan Deng 081211, DCE 16<sup>th</sup>, 2008, (in SWFU), Longqian park, Yimen county, Yuxi city, Yunnan provivce, China, 1629m alt., Lilan Deng, 1109008, SEP 6<sup>th</sup> 2011(in SWFU).

Trees evergreen, to 20 m, to 80cm d.b.h. Bark of stems green or brown green, glabrous. Branches brownish green, densely appressed tawny pubescent when young, becoming glabrous. Buds super-posed, densely appressed tawny tomentose. Leaves imparipinnate, 11-27cm; petiole 2-5 cm; rachis 3-11 cm, prolonged 0.5-1.5cm below terminal leaflet, leaflets (3)5-7 or (1)2-3 per side, thickly leathery, blades oblong or oblong-elliptic, 5-11 × 1.5-3.5cm, super green, glabrous or slightly tomentose, under grey-green, yellow-tomentose, more densely along midvein, beconing glabrous, midvein super slightly impressed, lateral veins 7 or 8 pairs, inconspicuous. Becoming conspicuous when dried, petiolule 4-7mm, grooved, densely appressed short pubescent; base cuneate, margin slightly repand, apex acuminate or caudate, apex obtuse or acute. Racemes mostly axillary, or panicles sparsely terminal, 5-15 cm long, densely appressed brownish tomentose. Flowers 1.5-2.5 cm, fragrant; pedicel ca. 5-12mm. Calyx campanulate ca. 9 mm, teeth ca. 1/2 length of calyx, triangular-ovate, densely appressed brownish tomentose on both surfaces. Corolla greenish white, darker at center, margin slightly purplish; subequal, standard sub-rotundatus, apex retuse, wings obovate-oblong, ca. 1 cm, claw ca. 3 mm, obovate-oblong, Stamens 10, free, 1.3-2.5 cm, unequal; filaments light grayish purple. Anthers light grayish purple. Ovary flattened, densely appressed short tawny sericeous, ovules 5-7. style filiform; stigma oblique. Legumes elliptic or oblong, 4-10 × 2.5 -3.5 × ca. 0.3-0.7 cm, apex beaked, valves thickly woody, nigri-brown, densely appressed short yellowish brown sericeous, densely pubescent at apex and base, internally septate. Seeds 1-4, red, oblong or elliptic, 0.8-1.3 × 0.6-0.8 × 0.4-0.5 cm, glossy, hilum small, 1.5-2.5 mm. Fl. may, fr. NOV -DEC.

Distribution: the center area of Yunnan Province of China.

Habitat and ecology: in Karst area, 1600m alt., often in forest, remnants on hill slopes and ridges and along streams.



Figure 1. *Ormosia yimenensis* LiLan Deng sp.nov. (A) Inflorescence. (B) Flower stalk tomentose. (C) Anther. (D) Details of the flower. (E) Branches. (F) Slightly tomentose under leaflet. (G) Bud. (H) legume. (I) Seeds. (J) Ovary.

### Reference

- [1] Ruohui Zhang. 1994. Angiospermae. – in: Zhengyi Wu(ed.), Flora Reipublicae popularis sinicae. Science Press, pp 40.