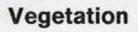
A new species of magnolia (*Talauma* subsect.) in Tungurahua, Ecuador, and supplementary information on sympatric species (*Magnolia llanganatensis, Magnolia vargasiana*)



Alyssa Kullberg

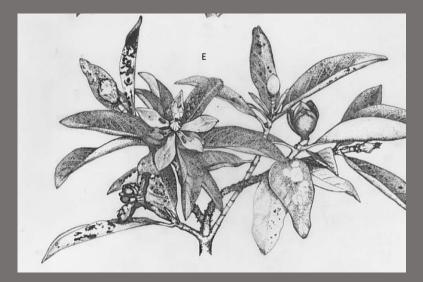








Magnolias of the Río Pastaza watershed



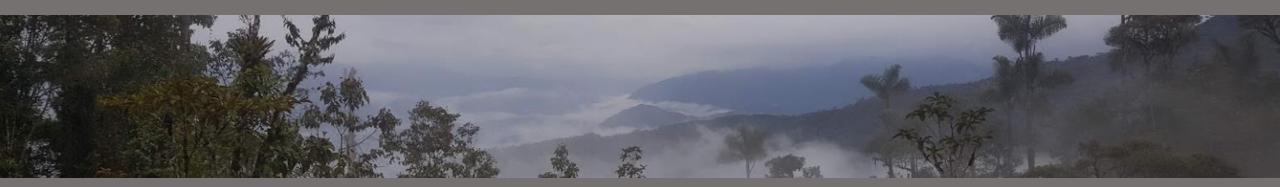
Magnolia Ilanganatensis



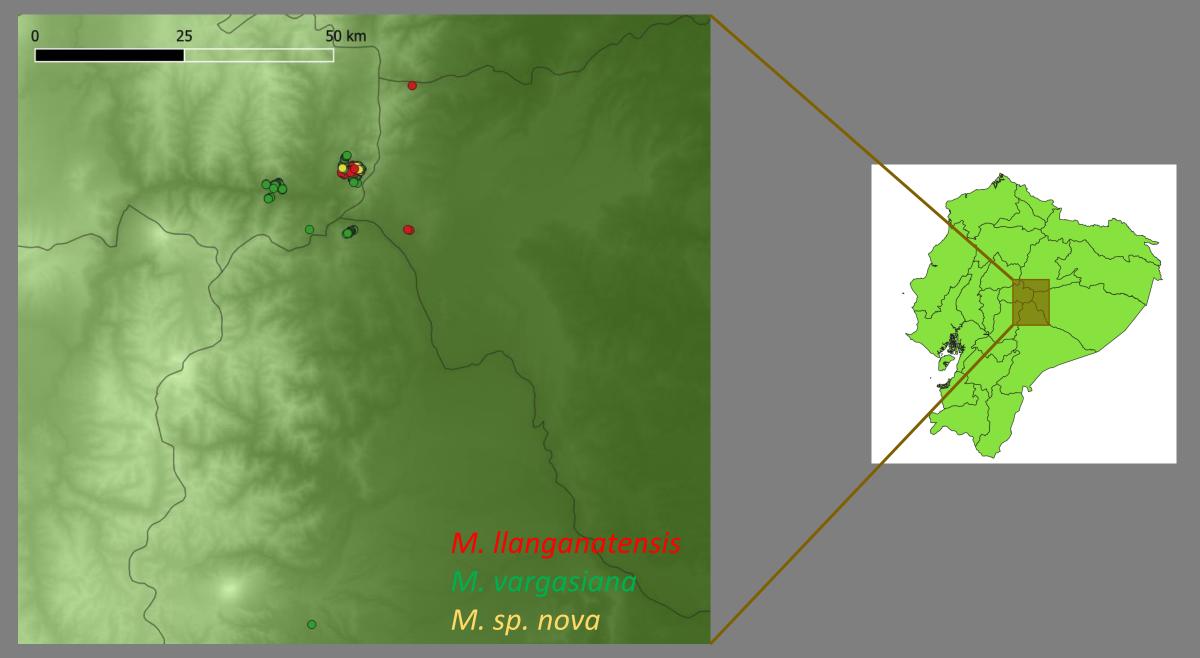




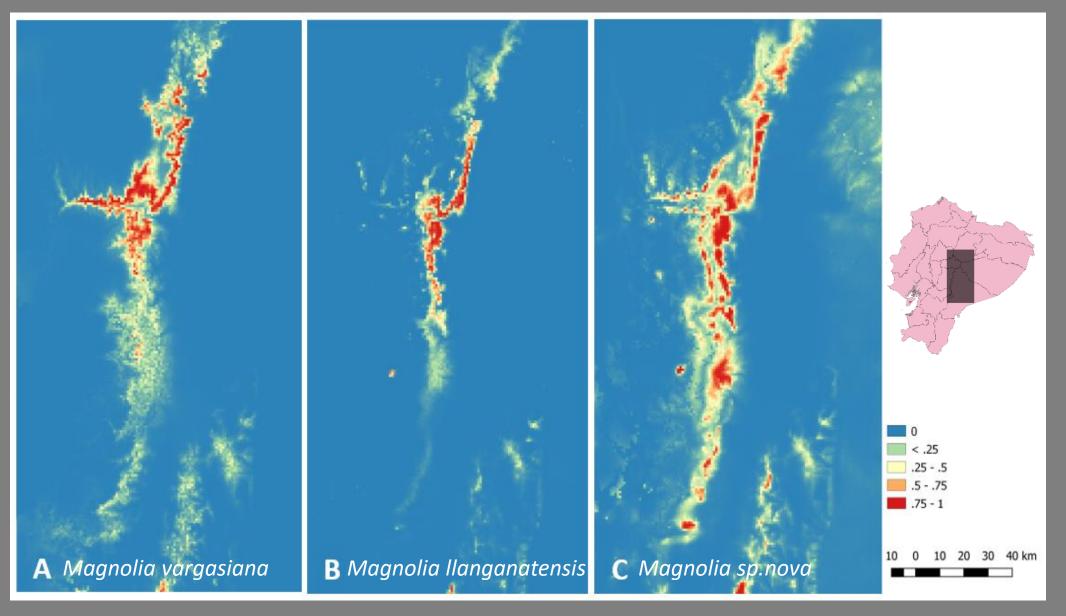
Magnolia sp. nova



Distributions of M. sp. nova, M. Ilanganatensis, and M. vargasiana



PRELIMINARY Species distribution models of *Magnolia spp. in the* Río Pastaza watershed



Characteristics of Magnolia sp. nova









Characteristics of Magnolia sp. nova

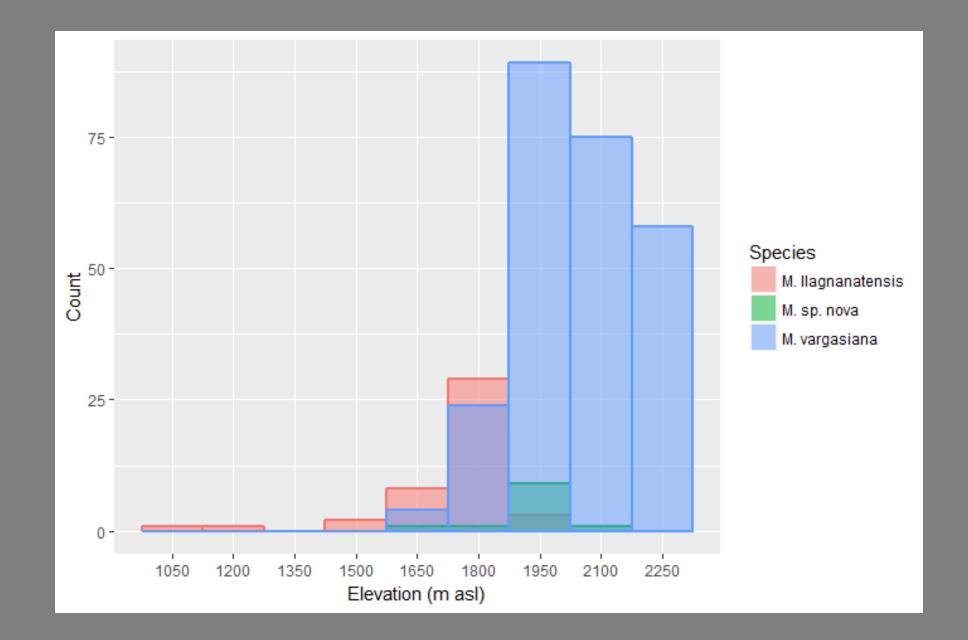


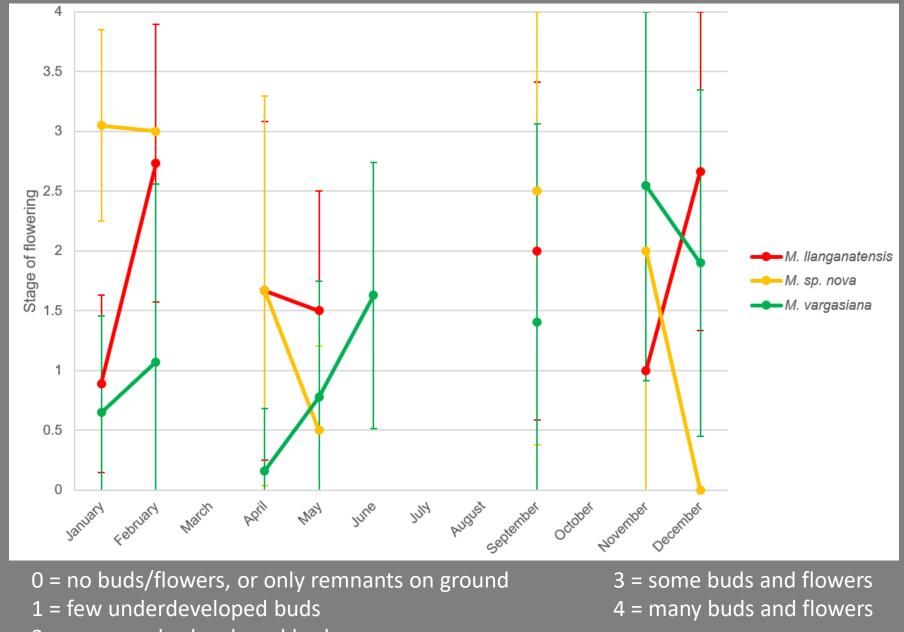




- Tall trees up to ~30 m
- Bark pale brown to cream, often with epiphytes
- Flowers commonly predated upon by unidentified insect larvae
- 15 known individuals of various ages
- Present in primary and sometimes secondary cloud forest

Characteristic	M. sp. nova	M. vargasiana	M. Ilanganatensis
# Petals	6 - 8	(7-) 8	6 (-8)
Petal length (cm)	3.0 - 4.4	3.5 - 5.3	2.8 - 4.2
Average # Stamens	36.9 (SD = 2.5)	45.3 (SD = 3.1)	33.8 (SD = 2.4)
Terminal internode pubescence	Highly pubescent	Glabrous	Highly pubescent
Leaf blade shape	Ovate to elliptical, apex acute (obtuse base)	Suborbicular, subcordate (cordate to ovate base)	Elliptic to narrowly elliptic, apex acute to acuminate (obtuse base)
Petiole length (cm)	2 - 5	3 - 8	1.2 - 1.8
Petiole/midvein pubescence	Highly pubescent	Glabrous to barely pubescent	Highly pubescent
Elevation (m a.s.l.)	1625 - 2060	1600 - 2325	1100 - 1950





2 = many underdeveloped buds

IUCN RedList Recommendations



Magnolia llanganatensis

Endangered (EN) (increasing from prev. risk assessment of Near Threatened) Magnolia sp .nova

Endangered (EN)

Vulnerable (VU) (supporting prev. assessment, currently Data Deficient on IUCN)

Magnolia vargasiana

Thank you!

Questions?