

Supplementary information

Table S1. Description of karst and non-karst forests

	Lithology types	Soil texture	located	Coordinates	Altitude (m)	Dominant tree species
Karst	calcareous soil	silt clay loam	Mulun National Nature Reserve	25°08'N, 108°01'E	420	Leguminosae, Hamamelidaceae, Lauraceae, Sapindaceae and Flacourtiaceae Fagaceae,
Non- karst	Haplic acrisol (red soil)	silt loam	Huashan State Forest Farm	25°06'N, 108°16'E	310	Hamamelidaceae, Rubiaceae, Araliaceae and Lauraceae