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Supplement of

A 22 570 yr record of vegetational and climatic change from Wenhai Lake in the Hengduan Mountains biodiversity hotspot, Yunnan, Southwest China

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Supplementary material

Figure S1. A comparison of palynomorphs recovered from the Wenhai core and surface samples

Figure S2. A selection of palynomorphs recovered from Wenhai core sediments. 1,17. Polygonaceae, 2. Caprifoliaceae, 3. Ericaceae, 4. *Tilia* L., 5,6. *Quercus* L., 7. Compositae, 8,9. *Betula* L., 10. Loranthaceae, 11,12. Oleaceae, 13. Hamamelidaceae, 14. *Castanopsis* (D.Don) Spach ., 15. Rosaceae, 16. *Ulmus* L., 18. *Alnus* Mill., 19. *Artemisia* L., 20. Cyperaceae, 21. Caryophyllaceae, 22. Gramineae, 23,24. Umbelliferae, Scale bar=50 µm

Figure S3. A selection of palynomorphs recovered from Wenhai core sediments (continued). 1. *Abies* Mill., 2. *Picea* Dietr., 3,4. *Tsuga* Carr., 5,6. *Pinus* L., 7,16. Polypodiaceae, 8,9. *Pteris*, 10,11,13,14. Gymnogrammaceae, 12. Dennstaedtiaceae, 15. Athyriaceae, 17. Cyatheaceae, Scale bar=50 µm

	Surface samples	Core sediments
Algae	<i>Zygnema</i> (1)	<i>Pediastrum</i> <i>Zygnema</i> (2)
Pteridophytes	Athyriaceae Cyatheaceae Gymnogrammaceae Hymenophyllaceae Loxogrammaceae Lygodiaceae Plagiogyriaceae Polypodiaceae <i>Pteris</i> Sinopteridaceae (10)	Athyriaceae Cyatheaceae Dennstaedtiaceae Gleicheniaceae Gymnogrammaceae Hymenophyllaceae Loxogrammaceae <i>Lycopodium</i> Lygodiaceae Ophioglossaceae Polypodiaceae <i>Pteris</i> <i>Selaginella nipponica</i> Selaginellaceae Sinopteridaceae (15)
Gymnosperms	<i>Abies</i> <i>Pinus</i> <i>Tsuga</i> (3)	<i>Abies</i> <i>Cedrus</i> <i>Dacrydium</i> <i>Ephedra</i> <i>Picea</i> <i>Pinus</i> Taxodiaceae <i>Tsuga</i> (8)
Angiosperms	<i>Alnus</i> Anacardiaceae <i>Artemisia</i> <i>Betula</i> Caprifoliaceae Caryophyllaceae <i>Castanea</i> Chenopodiaceae Compositae Convulvolaceae <i>Corylus</i> Cruciferae Cyperaceae Ericaceae Euphorbiaceae Gramineae Juglandaceae Labiatae Leguminosae Liliaceae Magnoliaceae Malvaceae Melastomaceae Meliaceae Menispermaceae Mimosaceae <i>Myriophyllum</i> Oleaceae Palmae Polygonaceae (36)	<i>Quercus</i> Rosaceae Rutaceae <i>Salix</i> Sapindaceae Verbenaceae Actinidiaceae <i>Alnus</i> Amaranthaceae Anacardiaceae Araceae Araliaceae <i>Artemisia</i> <i>Betula</i> Campanulaceae Caprifoliaceae <i>Carpinus</i> Caryophyllaceae <i>Castanea</i> <i>Castanopsis</i> Chenopodiaceae Clethraceae Compositae Convulvolaceae <i>Corylus</i> Cruciferae Cucurbitaceae Cyperaceae Dipsacaceae Ericaceae Euphorbiaceae Flacourtiaceae Gramineae Guttiferae Hamamendiaceae Icacinaceae <i>Ilex</i> Iridaceae Juglandaceae Labiatae Leguminosae Liliaceae <i>Liquidambar</i> Magnoliaceae Malvaceae Meliaceae Menispermaceae <i>Myriophyllum</i> Myrsinaceae Oleaceae Palmae Plantaginaceae Polygonaceae Potamogetonaceae <i>Quercus</i> (sp. 1, sp. 2) Rosaceae Rubiaceae Rutaceae <i>Salix</i> Theaceae <i>Tilia</i> <i>Ulmus</i> Umbelliferae Verbenaceae (58)

Figure S1



Figure S2



Figure S3