**Supplementary file S3:** Dispersed pollen and spore taxa recorded from the Hindon Maar Complex *Lagerstätten*. Full citations and synonymies listed in Raine et al. (2011); author abbreviations follow IPNI (http://www.ipni.org/index.html). Botanical affinities taken from El-Ghazaly & Chaudhary (1993), Jarzen & Pocknall (1993), Macphail (1999), Macphail & Cantrill (2006), Macphail & Truswell (1993), Macphail et al. (1995), Milne (1998), Sauqet et al. (2009), Kumaran et al. (2011), Raine et al. (2011), Behrensmeyer & Turner (2013) and Conran et al. (2015).

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| **FUNGI**: various unidentified spores |
| **BRYOPHYTES**: various unidentified spores |
| **FERN SPORES** |
| *Cyathidites* Couper spp.: Cyatheaceae (*Cyathea* Sm.), Dicksoniaceae, Schizaeaceae (*Lygodium* Sw*.*) |
| *Laevigatosporites ovatus* R.M.Wilson & L.R.Webster: Aspleniaceae, Blechnaceae, Polypodiaceae, Schizaeaceae etc. |
| *Monolites alveolatus* Couper: Polypodiaceae (*Belvisia* Mirb*.*) |
| *Polypodiisporites* R.Potonié spp.: Polypodiaceae, Davalliaceae |
| *Polypodiisporites inangahuensis* (Couper) R.Potonié: Polypodiaceae, Davalliaceae |
| *Polypodiisporites perverrucatus* (Couper) A.M.Khan & A.R.Martin: Polypodiaceae, Davalliaceae |
| *Polypodiisporites radiatus* Pocknall & Mildenh.: Polypodiaceae, Davalliaceae (*Davallia* Sm.) |
| *Triletes* Reinsch: unidentified trilete fern spores |
| *Trilites tuberculiformis* Cookson: Dicksoniaceae (*Dicksonia* L’Hér.) |
| *Verrucosisporites kopukuensis* (Couper) Stover: Schizaeaceae (*Lygodium*) = *Lygodium* above?? |
| **CONIFER POLLEN** |
| *Araucariacites australis* Cookson: Araucariaceae (*Araucaria* Juss*., Agathis* Salisb.) |
| *Dacrycarpites australiensis* Cookson & R.M.Pike: Podocarpaceae (*Dacrycarpus* (Endl.) de Laub.) |
| *Dacrydiumites praecupressinoides* (Couper) Truswell: Podocarpaceae (*Dacrydium cupressinum* Sol. ex Lamb.) |
| *Microalatidites varisaccatus* Mildenh. & Pocknall: Podocarpaceae (*Phyllocladus* Mirb.) |
| *Parvisaccites catastus* A.D.Partr.: Podocarpaceae (*Halocarpus* Quinn) |
| *Podocarpidites* Cooksonspp. Podocarpaceae |
| *Podocarpidites ellipticus* Cookson: Podocarpaceae (*Podocarpus* L'Hér ex Pers.*, Prumnopitys* Phil.) |
| *Podocarpidites puteus* Mildenh. & Pocknall: Podocarpaceae (*Podocarpus/Prumnopitys*) |
| *Podocarpidites torquatus* Mildenh. & Pocknall: Podocarpaceae (*Podocarpus*) |
| *Podosporites brevisaccatus* (Couper) Mildenh.: Podocarpaceae (*Microcachrys* Hook.f.) |
| *Podosporites parvus* (Couper) Mildenh.: Podocarpaceae (*Microcachrys*) |
| *Taxodiaceaepollenites* Kremp ex R.Potonié sp.: ?Cupressaceae, ?Taxodiaceae |
| **ANGIOSPERM POLLEN** |
| *Arecipites* D.J.Nichols, H.T.Ames & Traverse sp. Arecaceae |
| *Bluffopollis* Pocknall & Mildenh. sp.: Strasburgeriaceae (*Strasburgeria* Baill.) |
| *Clavatipollenites ascarinoides* D.J.McIntyre: Chloranthaceae (*Ascarina* J.R.Forst. & G.Forst.) |
| *Cranwellia striata* (Couper) Sat.K.Srivast.: Loranthaceae |
| Cunoniaceae sp. |
| *Dicyclopsodites leei* Mildenh., E.M.Kenn. & J.G.Prebble: Apocynaceae? |
| *Ericipites* Wodehouse sp.: Ericaceae: Epacridoideae |
| *Ilexpollenites verrucatus* Pocknall & Mildenh.: Aquifoliaceae (*Ilex* L.) |
| *Haloragacidites harrisii* (Couper) W.K.Harris: Casuarinaceae (*Allocasuarina* L.A.S.Johnson*, Casuarina* L.), ?Myricaceae |
| *Liliacidites* Coupersp.: ?Liliaceae sens. lat. (=various Lililes and Asparagales) |
| *Liliacidites aviemorensis* D.J.McIntyre: ?Liliaceae sens. Lat. (=various Lililes and Asparagales) |
| *Lophomyrtus* Burret sp.: Myrtaceae: *Lophomyrtus* |
| *Monogemmites gemmatus* (Couper) Krutzsch: ?Amaryllidaceae (*Hymenocallis* Salisb.) and other monocots |
| *Myrtaceidites mesonesus* Cookson & R.M.Pike: Myrtaceae (*Metrosideros* Banks ex Gaertn.) |
| *Myrtaceidites parvus* Cookson & R.M.Pike: Myrtaceae *Leptospermum* J.R.Forst. & G.Forst.*, Kunzea* Rchb*.*) |
| *Nothofagidites asperus* (Cookson) E.J.Romero: Nothofagaceae (*Nothofagus* subg. *Lophozonia* R.S.Hill & J.Read) |
| *Nothofagidites cranwelliae* (Couper) Mildenh. & Pocknall: Nothofagaceae (*Nothofagus* subg. *Brassospora* Philipson & M.N.Philipson) |
| *Nothofagidites falcatus* (Cookson) Hekel: Nothofagaceae (*Nothofagus* subg. *Brassospora: N.* *perryii* Steenistype) |
| *Nothofagidites flemingii* (Couper) R.Potonié: Nothofagaceae (*Nothofagus* subg. *Fuscospora* R.S.Hill & J.Read, cf. *N. dombeyii* (Mirb.) Oerst.) |
| *Nothofagidites lachlaniae* (Couper) Pocknall & Mildenh.: Nothofagaceae (*Nothofagus* subg. *Fuscospora*) |
| *Nothofagidites spinosus* (Couper) Mildenh. & Pocknall: Nothofagaceae (*Nothofagus* subg. *Fuscospora*) |
| *Nyssapollenites endobalteus* (McIntyre) Kemp & W.K.Harris: Euphorbiaceae (*Macaranga* Thouars*, Mallotus* Lour*.*) |
| *Palaeocoprosmadites zelandica* Pocknall: Rubiaceae (*Coprosma* J.R.Forst. & G.Forst.*, Opercularia* Gaertn.) |
| *Periporopollenites vesicus* A.D.Partr.: ?Trimeniaceae |
| Sub-Turma Ptychotriporines Naumova spp.: unidentified eudicots |
| *Proteacidites* Cookson & Couper sp.: Proteaceae |
| *Rhoipites* Wodehouse spp.: unidentified eudicots |
| *Rhoipites alveolatus* (Couper) Pocknall & Crosbie: ?Verbenaceae (*Avicennia* L.), ?Euphorbiaceae (*Excoecaria* L.), Euphorbiaceae (?*Euphorbia* L.) |
| *Rhoipites sphaerica* (Cookson) Pocknall & Crosbie: unidentified eudicot |
| *Rhoipites rhomboidaliformis* (D.J.McIntyre) Mildenh. & Pocknall: Araliaceae, Apiaceae |
| *Sparganiaceaepollenites* Thiergartsp.: Typhaceae (incl. Sparganiaceae) |
| *Striatricolporites pseudostriatus* (D.J.McIntyre) Mildenh. & Pocknall: unidentified eudicot |
| *Striatricolporites* Leidelmeyer: unidentified eudicots |
| *Tetracolporites spectabilis* Pocknall & Mildenh.: Meliaceae (*Dysoxylum* Blume*)* |
| *Tricolpites* R.Potonié spp.: unidentified eudicots |
| *Tricolpites inargutus* D.J.McIntyre: ?Violaceae |
| *Triorites orbiculatus* D.J.McIntyre: Moraceae, Urticaceae |

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