

Supplementary material for

***In-situ* Osmundaceous ferns-dominated landscapes in the Jurassic of Patagonia: a case of ecological stasis from the Deseado Massif, Santa Cruz, Province, Argentina**

Juan L. García Massini^{1,5}, Giovanni C. Nunes^{2,5}, Agustina Yañez^{3,5*}, Ignacio H. Escapa^{2,5}, Diego Guido^{4,5}

¹ Centro Regional de Investigaciones Científicas y Transferencia Tecnológica (CRILAR), Provincia de La Rioja, UNLaR, SEGEMAR, UNCa, CONICET, Anillaco, Provincia de La Rioja, 5301, Argentina.

² Museo Paleontológico Egidio Feruglio, Avenida Fontana 140, Trelew, Provincia del Chubut, 9100, Argentina.

³ Museo Argentino de Ciencias Naturales “Bernardino Rivadavia”, Av. Ángel Gallardo 470, Ciudad Autónoma de Buenos Aires, C1405DJR, Argentina.

⁴ Facultad de Ciencias Naturales y Museo, Universidad Nacional de La Plata, Instituto de Recursos Minerales (UNLP-CICBA), La Plata, Provincia de Buenos Aires, 1900, Argentina.

⁵ Consejo Nacional de Investigaciones Científicas y Técnicas, Godoy Cruz 2290, Ciudad Autónoma de Buenos Aires, C1425FQB, Argentina.

*Correspondence: gugu@macn.gov.ar

Tridimensional models of selected chert samples preserving one to several Osmundaceae fern individuals in life position.

Models were obtained following the methodology described in the Materials and Methods section.

3D-scanned materials:

S1. MPM-Pb 16084 — Fragment of chert block with fern rhizomatous stem in life position and associated conifer remains (e.g., roots, wood).

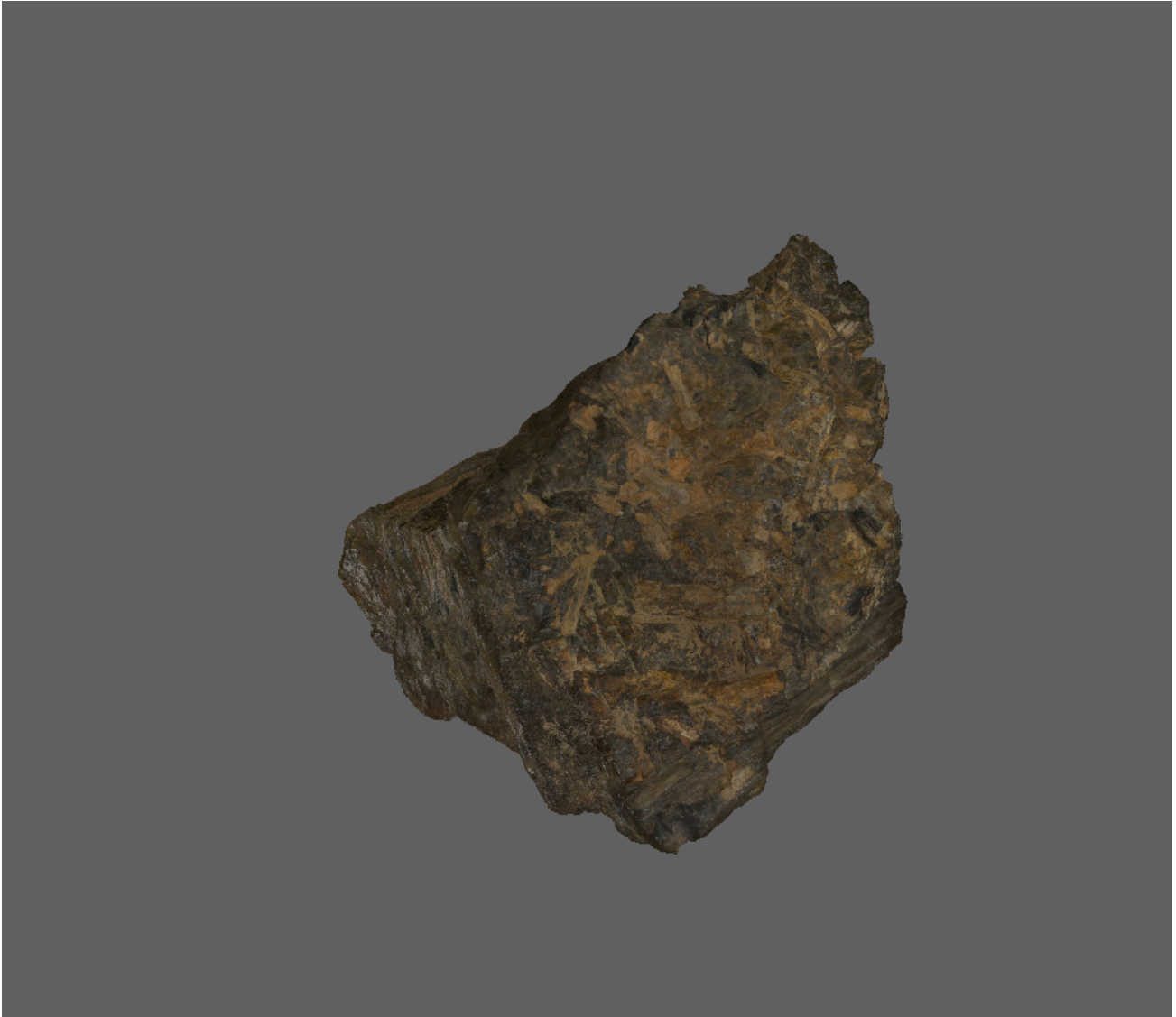
S2. MPM-Pb 16085 — Fragment of chert block (counterpart of MPM-Pb 16084) with fern rhizomatous stem in life position and associated conifer remains (e.g., roots, wood).

S3. MPM-Pb 16086 — Fragment of chert block with three fern rhizomatous stems in life position.

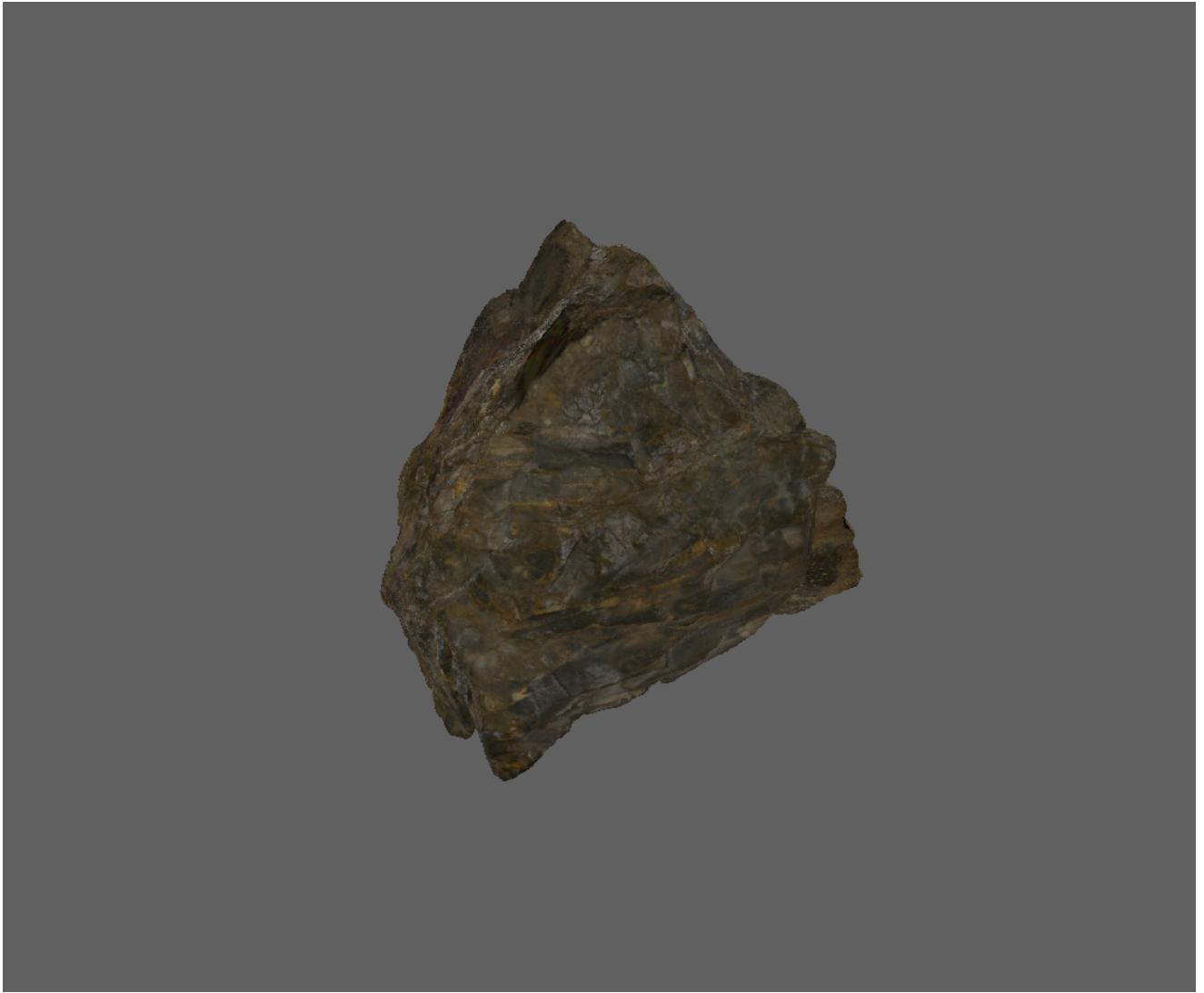
S4. MPM-Pb 16087 — Fragment of chert block with a fern rhizomatous stem in life position.

S5: MPM-Pb 16090 — Fragment of chert block with fern rhizomatous stems in life position.

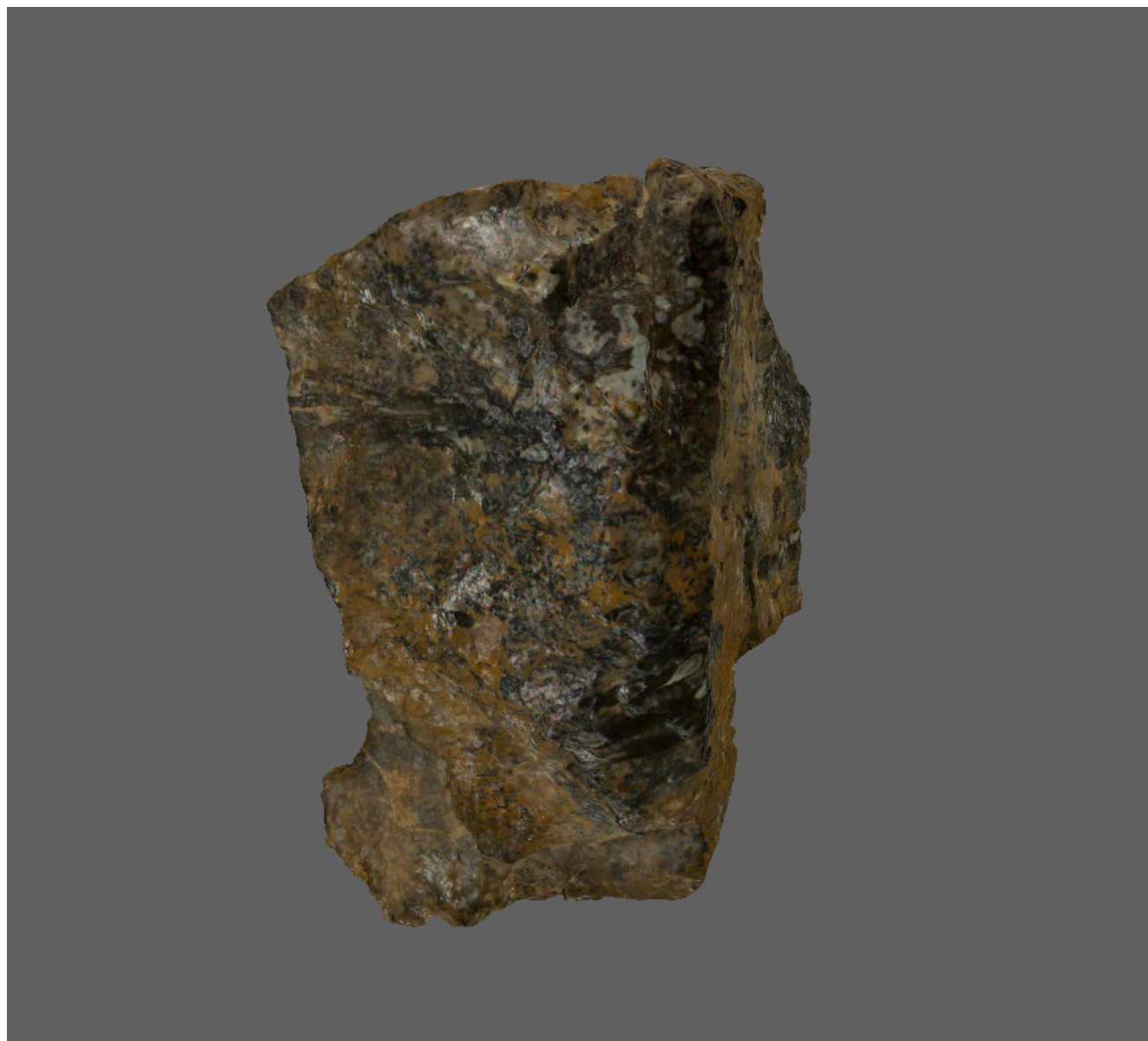
S6: MPM-Pb 16093 — Fragment of chert block with a fern rhizomatous stem in life position.



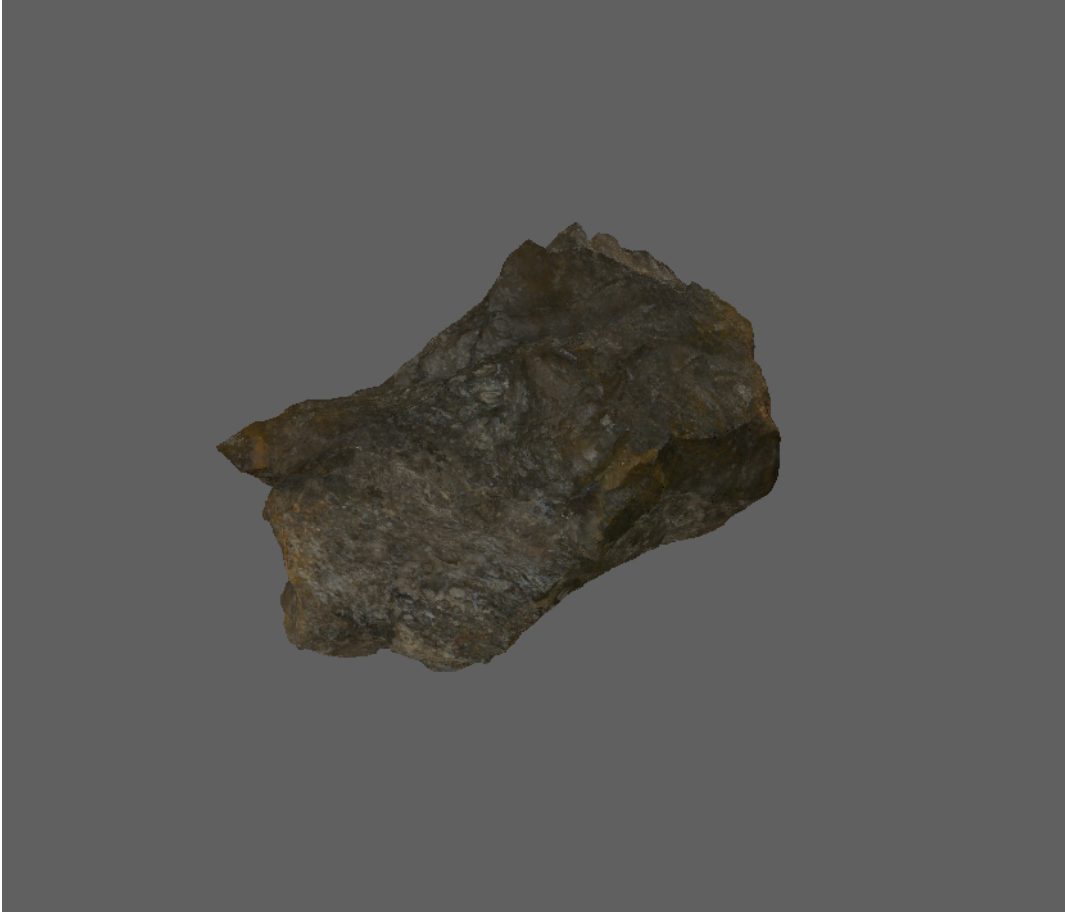
S1. MPM-Pb 16084



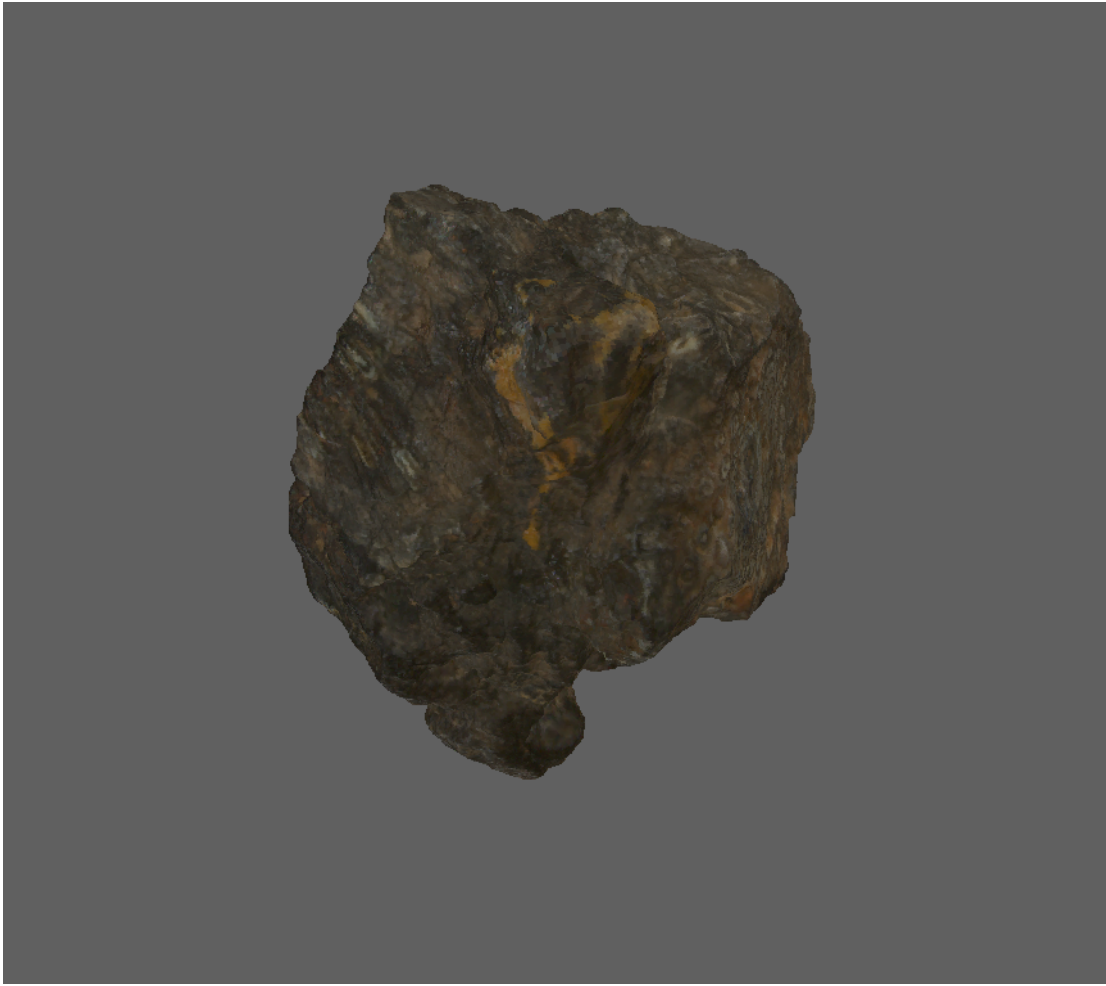
S2. MPM-Pb 16085



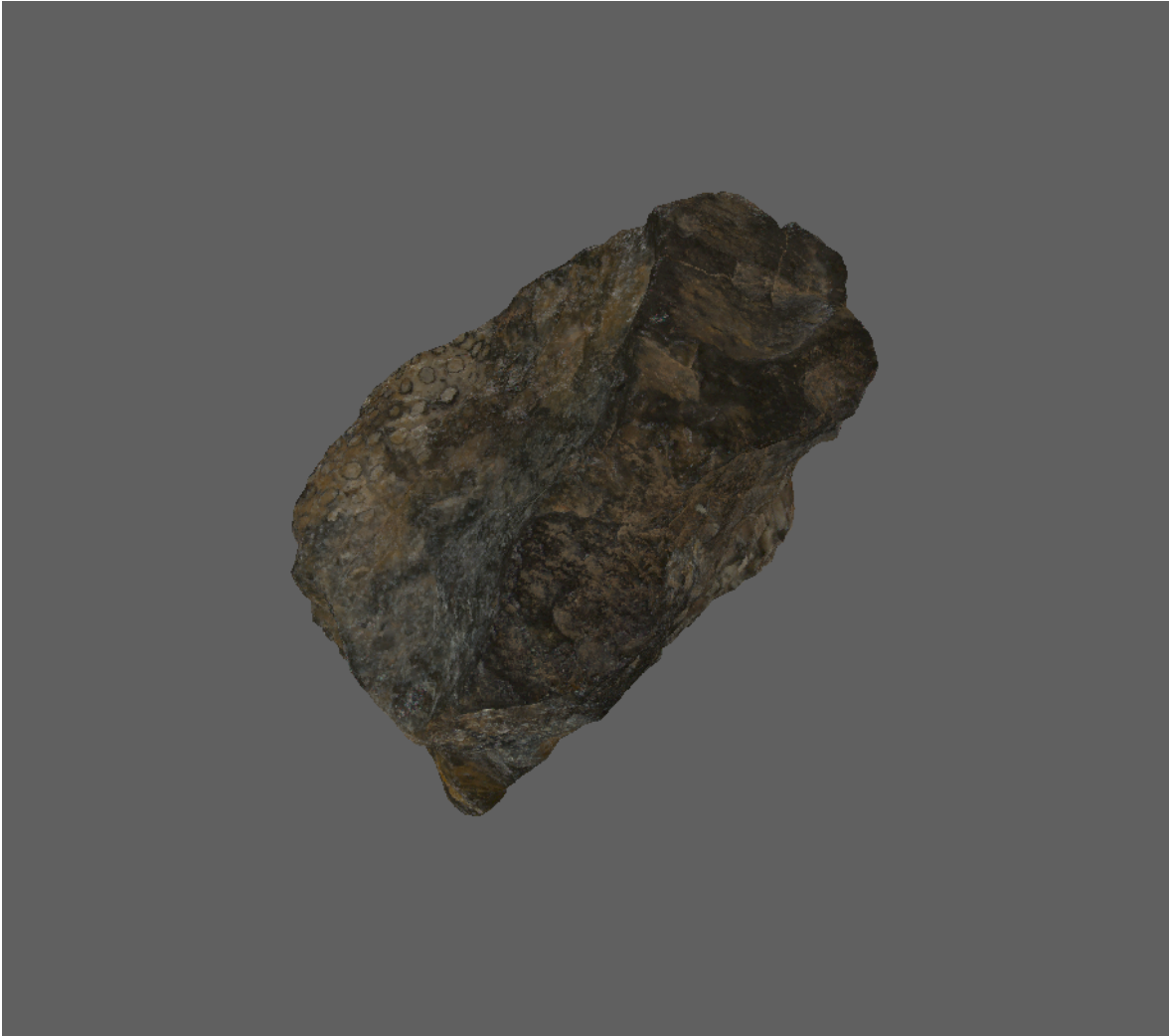
S3. MPM-Pb 16086



S4. MPM-Pb 16087



S5. MPM-Pb 16090



S6. MPM-Pb 16093