Supplementary material: "Carbonífero de Puertollano" Natural Monument (Puertollano basin, Spain): a window for the knowledge of Early Vertebrates

Material Suplementario: Monumento Natural "Carbonífero de Puertollano" (cuenca de Puertollano, España): una ventana al conocimiento de Vertebrados Inferiores

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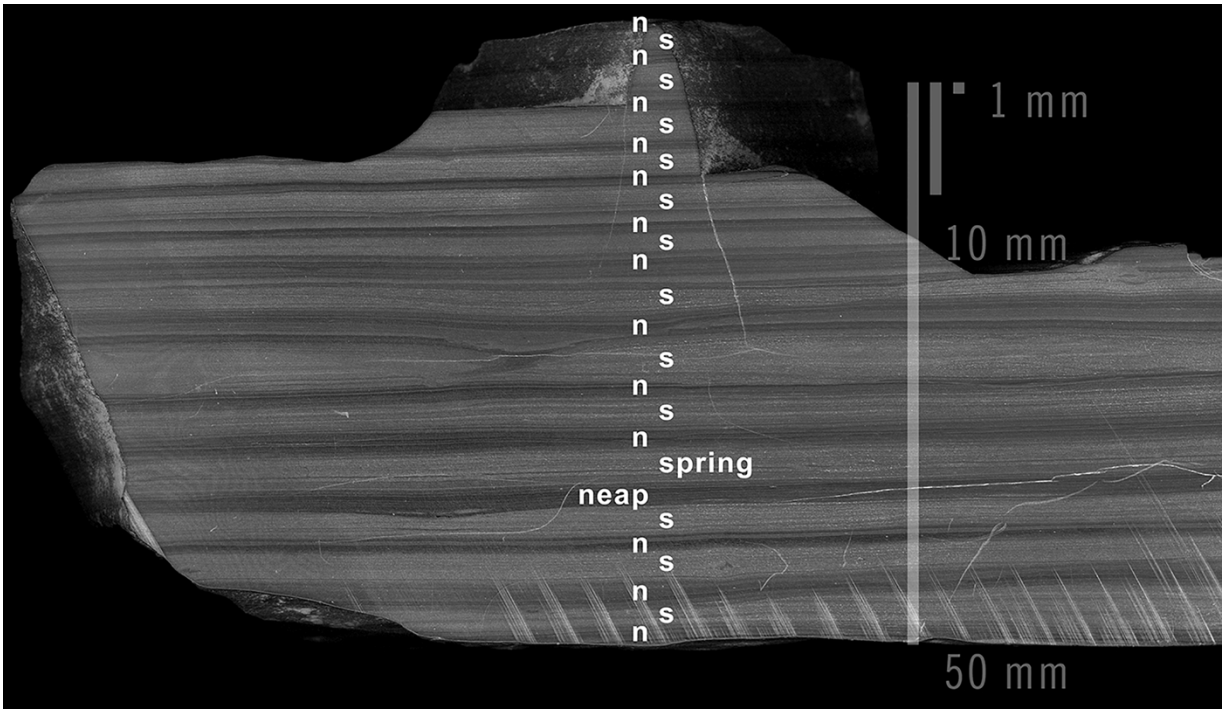
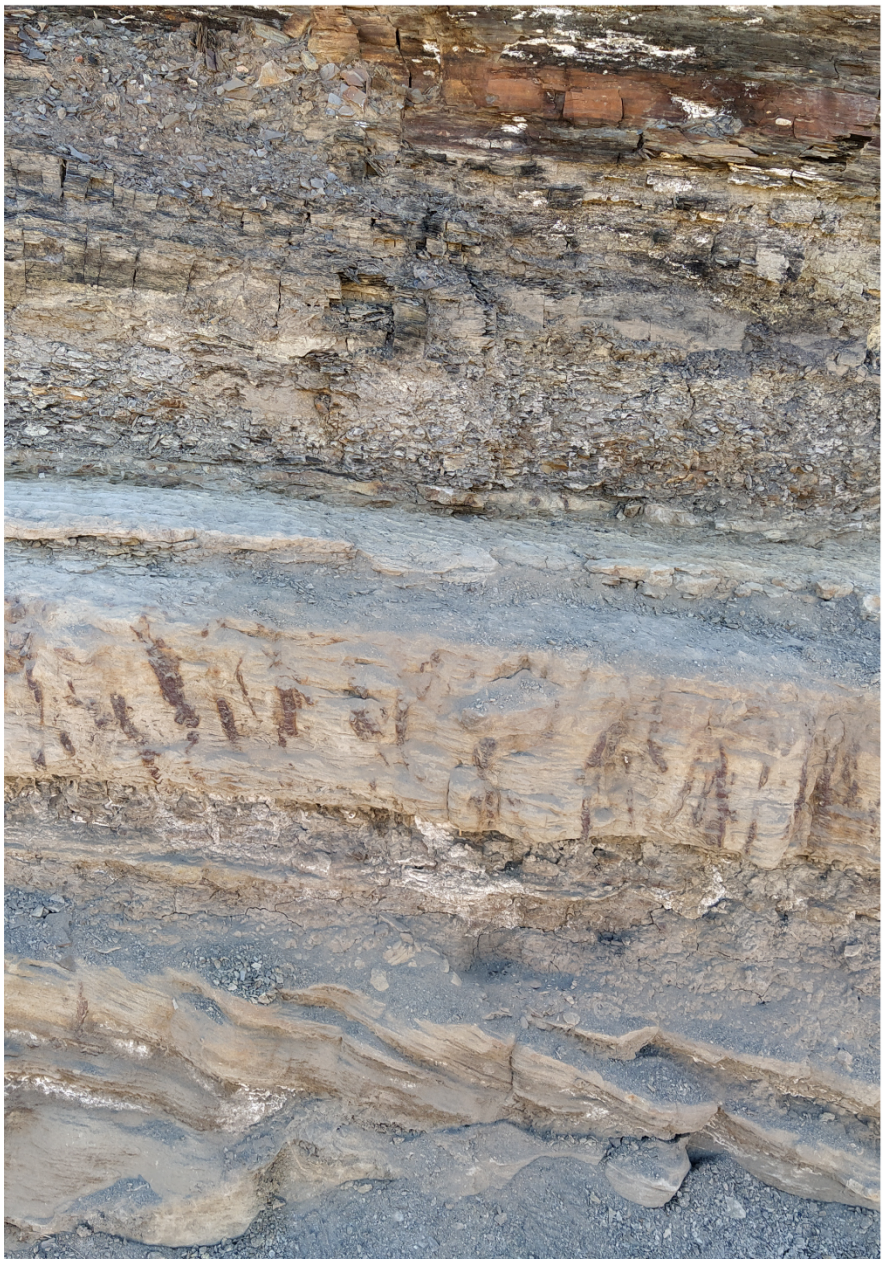
Supplementary Figures are available at the Spanish Journal of Palaeontology web-site (https://sepaleontologia.es/spanish-journal-palaeontology/) linked to the corresponding contribution. The information provided by the authors has not being copy edited or substantially formatted.



Supplementary Figure 1. Sample of mudstone (María Isabel opencast mine) showing tidal rhythmity (cf. Soler-Gijón & López-Martínez, 2008). Compare with Carboniferous tidalites and Recent examples in Feldman *et al*. (1993, figs. 4, 8), Cunningham *et al*. (1993, fig. 5) and Tessier (1993, figs. 4, 6).

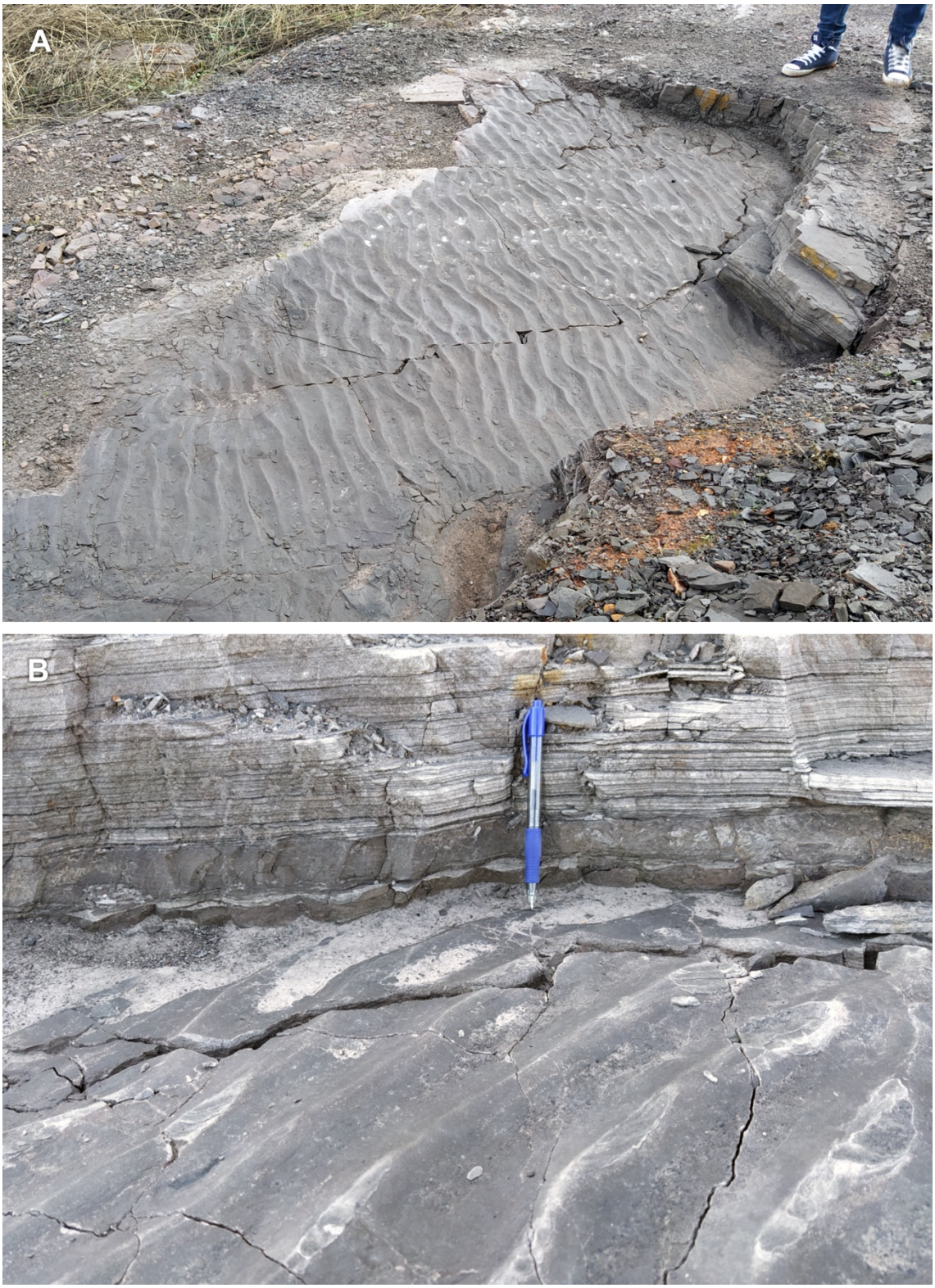
Supplementary Figure 2. Stratigraphical section exposed at María Isabel opencast mine.



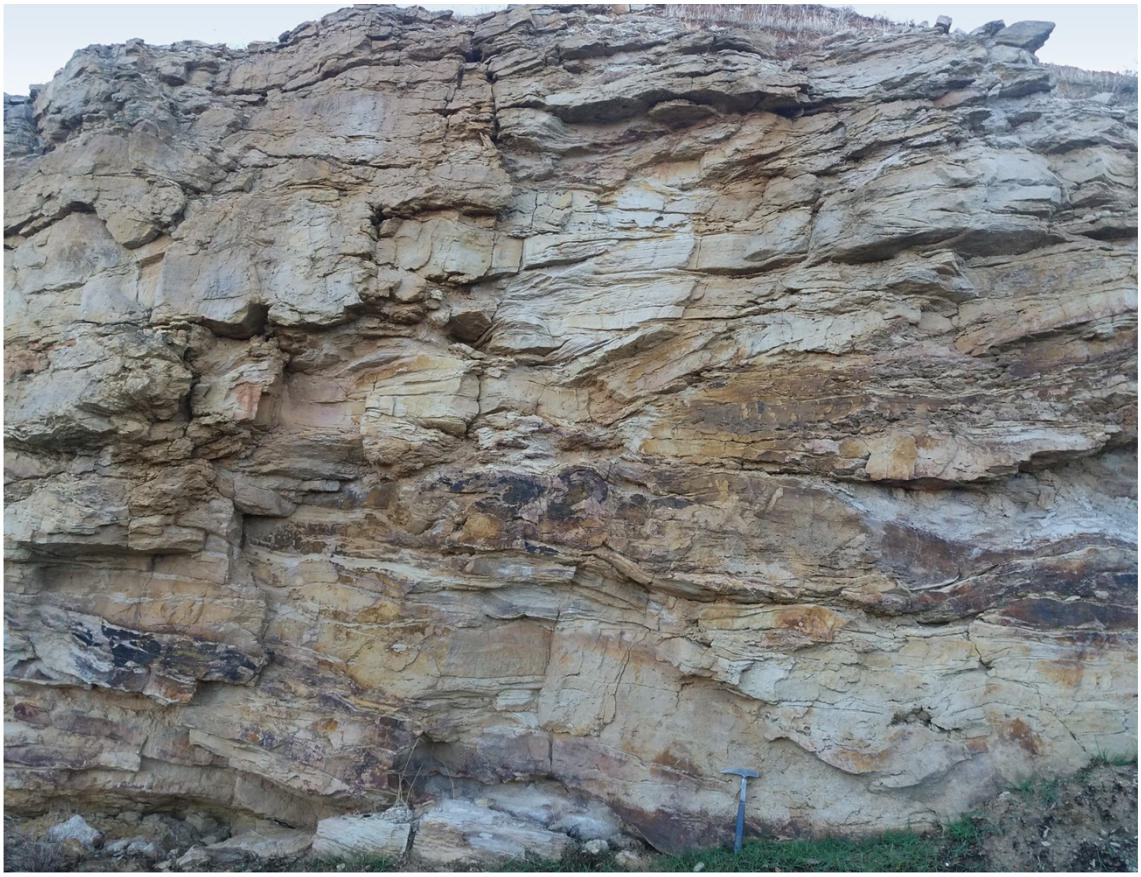
Supplementary Figure 3. Detail of section shown in Suppl. Fig. 2, with the description of the main sedimentological and paleontological features. Data from the field campaign of September 2021, supported by the regional government of Castilla-La Mancha.

Supplementary Figure 4. Detail of layer with interference ripples, indicating the lowering of the water level (see discussion in Davies & Shillito, 2021).

Supplementary Figure 5. Detail of stratigraphical section exposed in the south part of La Extranjera opencast mine, with the main sedimentological and paleontological features. Data from the field campaign of September 2021, supported by the regional government of Castilla-La Mancha.



Supplementary Figure 6. Area of wave ripples few meters below the thin coal layers, La Extranjera opencast mine. **A**, general view; **B**, detail of wave ripples exhibiting concave eroded crests and laminated sandtone at the top of the ripples, both features suggesting an inter-supratidal location.



Supplementary Figure 7. Detail of the stratigraphical section exposed at La Tejera quarry. Note the siltstone layer intercalated in between the large sigmoidal sandstone bodies (right side of the picture).

SUPPLEMENTARY REFERENCES

Cunningham, C. R., Feldman, H. R., Franseen, E. K., Gastaldo, R. A., Mapes, G., Maples, C. G., & Schultze, H.-P. (1993). The Upper Carboniferous Hamilton Fossil-Lagerstätte in Kansas: a valley-fill, tidally influenced deposit. *Lethaia, 26*, 225–236. doi: 10.1111/j.1502-3931.1993.tb01524.x

Davies, N. S., & Shillito, A. P. (2021). True substrates: The exceptional resolution and unexceptional preservation of deep time snapshots on bedding surfaces. *Sedimentology, 68*, 3307–3356. doi: 10.1111/sed.12900

Feldman, H. R., Archer, A. W., Kvale, E. P., Cunningham, C. R., Maples, C. G., & West, R. R. (1993). A tidal model of Carboniferous Konservat-Lagerstätten Formation. *Palaios, 8*, 485–498. doi: 10.2307/3515022

Soler-Gijón, R., & López-Martínez, N. (2008). Tidal rhythmites in Upper Carboniferous deposits from Puertollano Basin (Central Spain): palaeoenvironmental implications. In S. Stamberg, & J. Zajíc (Eds.), *Faunas and palaeoenvironments of the Late Palaeozoic* (pp. 43–44). Special Publication to 5th Symposium on Permo-Carboniferous Faunas.. Hradec Králové.

Tessier, B. (1993). Upper intertidal rhythmites in the Mont-Saint-Michel Bay (NW France): perspectives for paleoreconstruction. *Marine Geology, 110*, 355–367. doi: 10.1016/0025-3227(93)90093-B