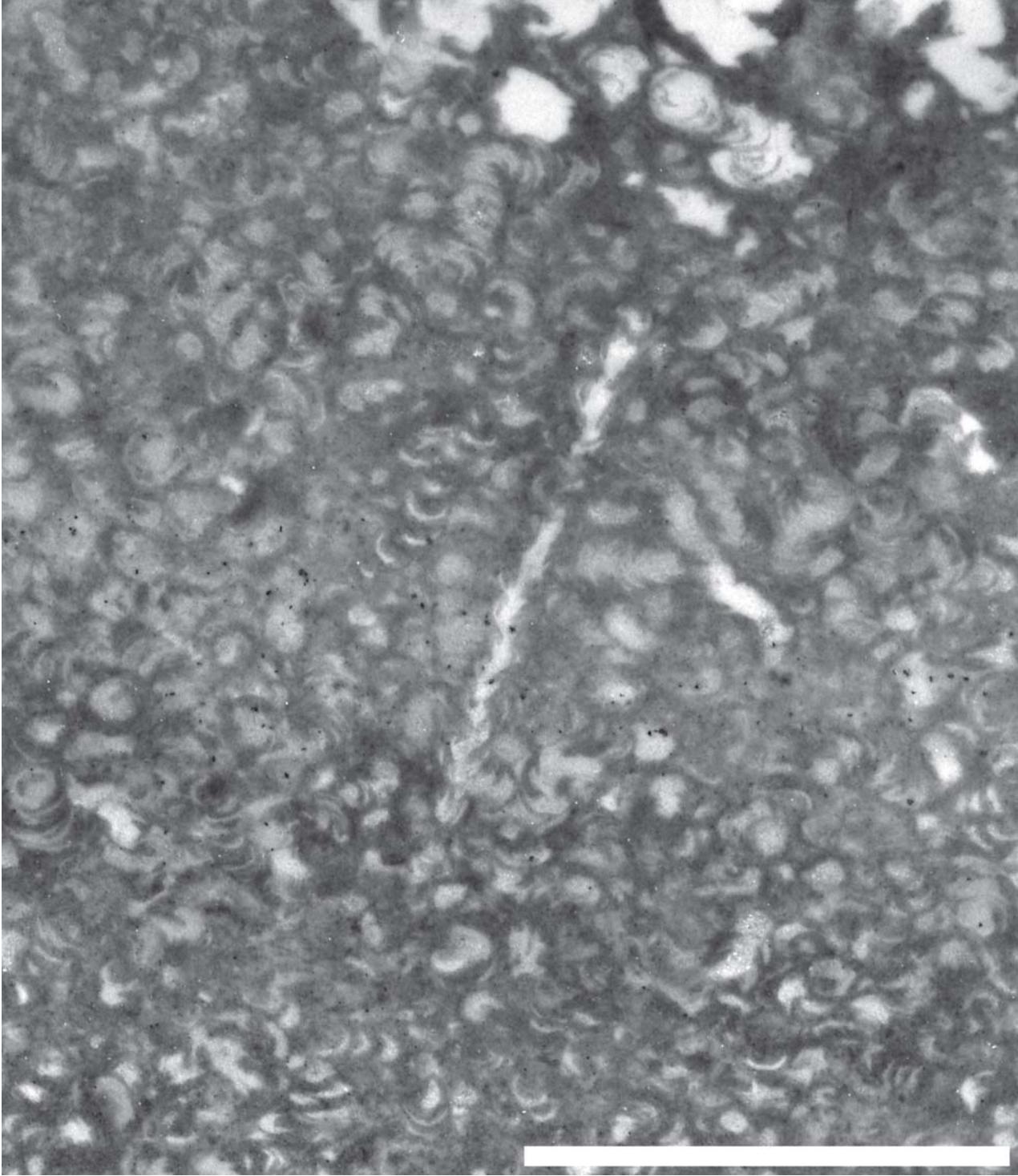


Supplementary Figure DR1. Composite section of Ediacaran and lower Cambrian strata of the Olenek Uplift in north-eastern part of central Siberia showing position of the oldest small skeletal fossils (*Cambrotubulus decurvatus* and *Anabarites trisulcatus*), the oldest ichnofabric (*Nenoxites curvus*), the index fossils that define Precambrian/Cambrian boundary (*Sabellidites cambriensis*, *Treptichnus pedum*, *Rusophycus avalonensis*, *Platysolenites antiquissimus*, *Aldanella attleborensis*), the Ediacaran fossils and the stratigraphic position of the logged section in Figure 1.



Supplementary Figure DR2. Vertical cross section of a sedimentary layer with ichnofabric showing an almost vertical escape burrow, Khatyspyt Formation, arctic Siberia. Scale bar: 10 mm.



Supplementary Figure DR3. Vertical cross section (field photograph) of a sedimentary layer with ichnofabric cut by an erosional scour, Khatyspyt Formation, arctic Siberia. Scale bar: 10 mm.