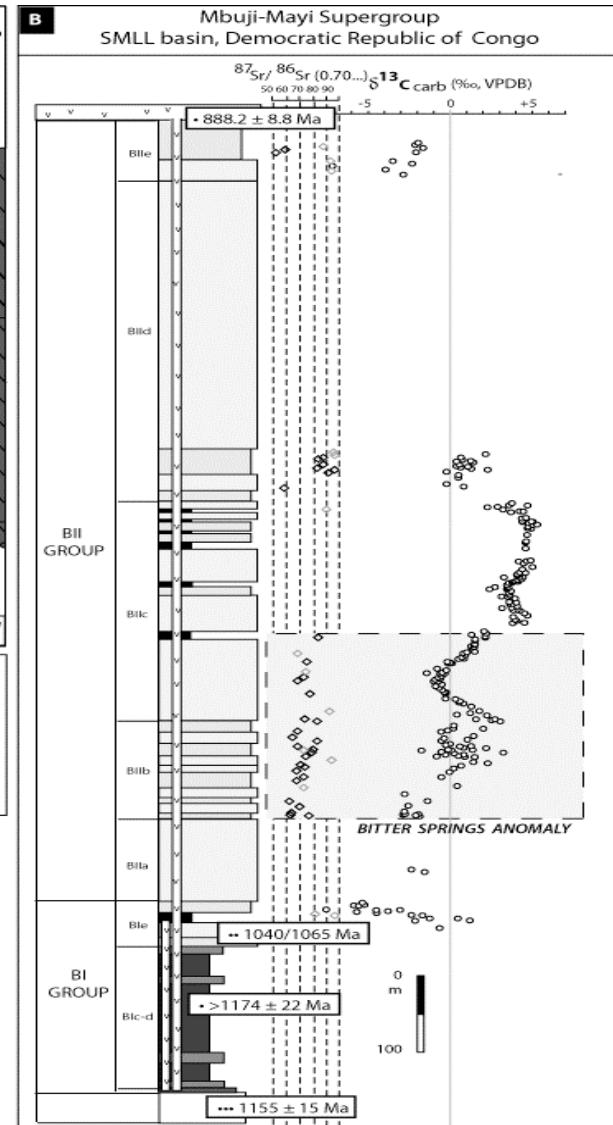


Precambrian microfossils from Mbuji-Mayi Supergroup, Democratic Republic of Congo (D.R.C)

I. Geological setting

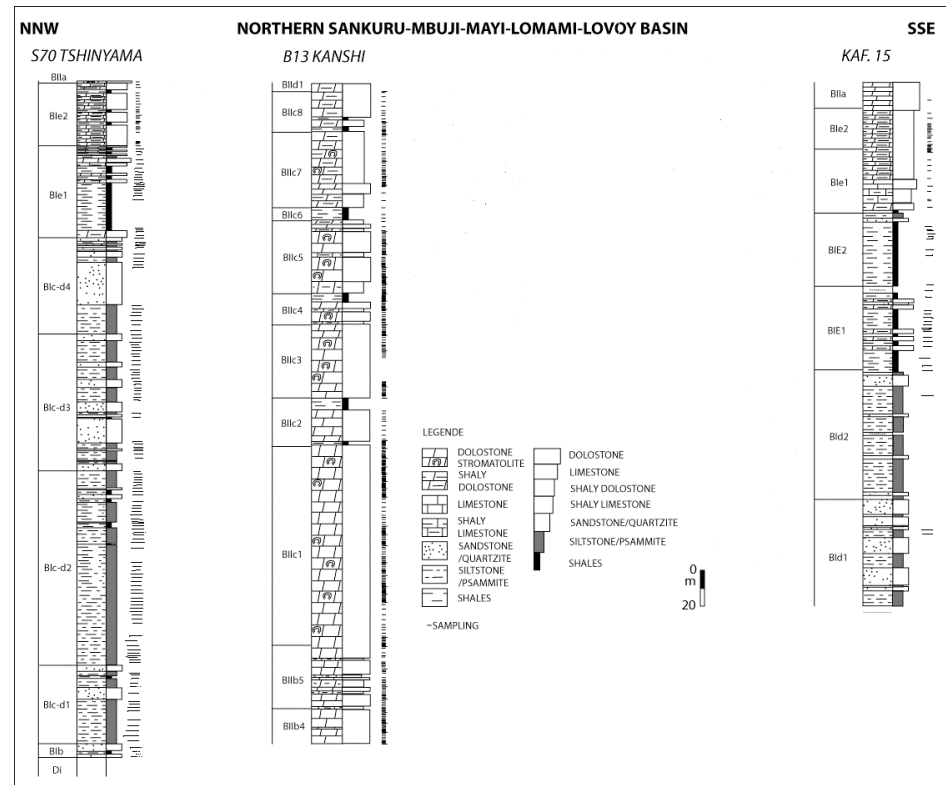
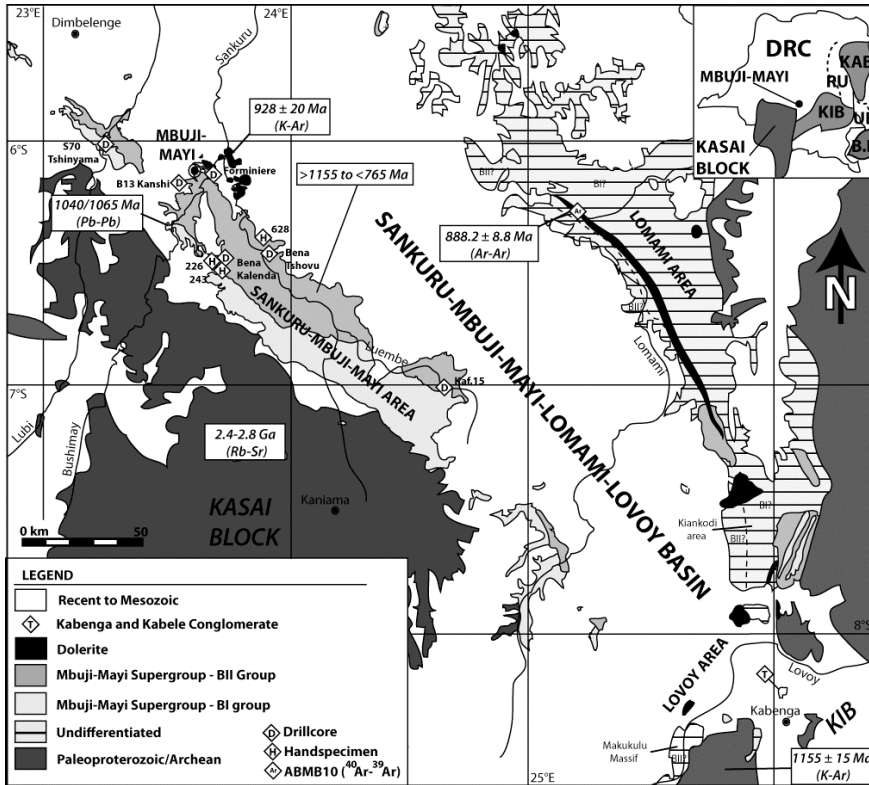


□ Age: 1174 ± 22 Ma and ca. 800 Ma (Delpomdor, 2012)
(Late Mesoproterozoic-middle Neoproterozoic)

□ Stratigraphy: (from top to bottom)
The BII group is carbonate (~ 1000 m thick)
The BI group is siliciclastic (~500 m thick)

Precambrian microfossils from Mbuji-Mayi Supergroup, Democratic Republic of Congo (D.R.C)

II. Geographical distribution and logs of drillholes



Interest of the study:

- to establish a biostratigraphy of the Mbuji-Mayi Supergroup;
- to understand the evolution of the multicellularity in the Proterozoic, and the diversification of eukaryotes at the Meso-Neoproterozoic;
- to understand the paleobiology of early eukaryotes by coupling ultrastructure, microchemistry of microfossils with redox conditions of paleoenvironments .

Number of samples collected:

- S70 TSHINYAMA: 264
- B13 KANSHI: 251
- KAFUKU 15: 99

Coll.: D.Baudet¹, Dan Asael², A.Bekker³, JY Storme²

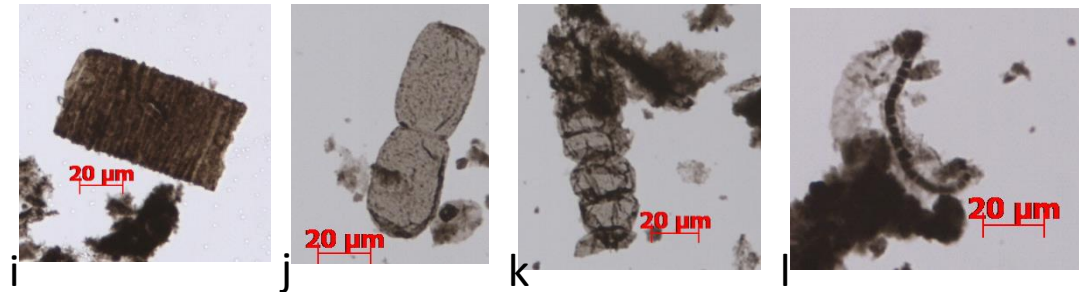
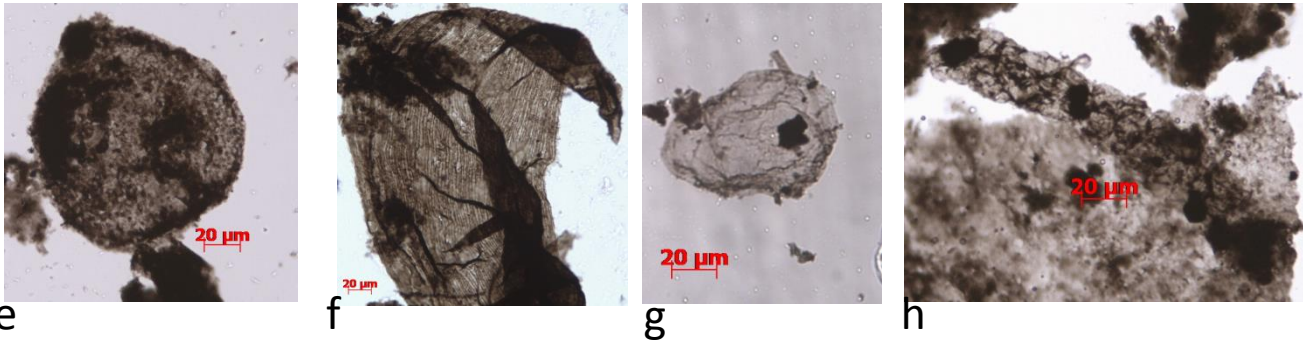
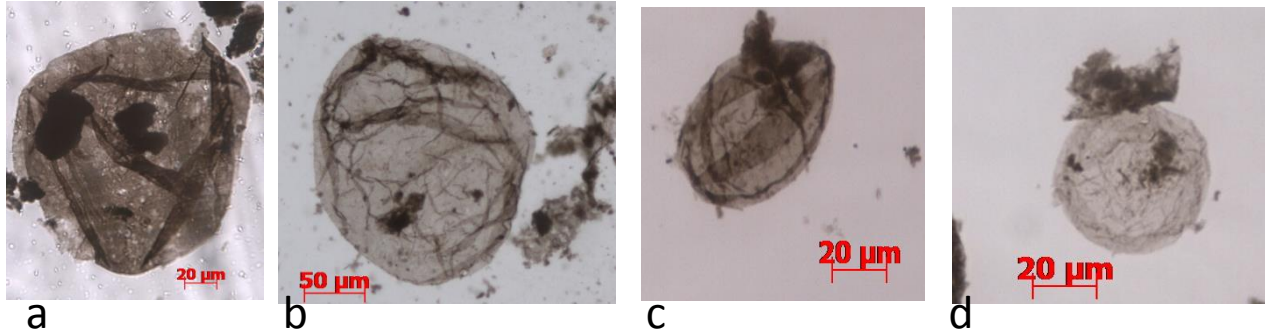
¹ Royal Museum of Central Africa, Belgium

² University of Liege, Belgium

³ University of Manitoba, Canada

Precambrian microfossils from Mbuji-Mayi Supergroup, Democratic Republic of Congo (D.R.C)

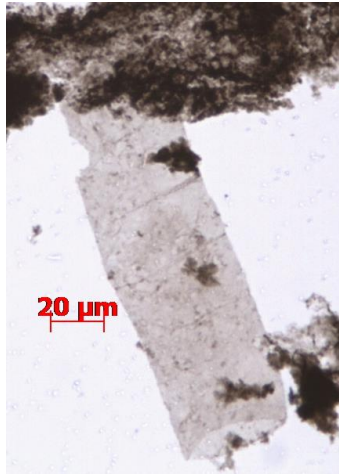
III. Microfossils from Kanshi B13 drillhole



- a. *Leiosphaeridia jacutica*;
- b. *Leiosphaeridia tenuissima*;
- c. *Leiosphaeridia crassa*;
- d. *Leiosphaeridia minutissima*;
- e. *Losphosphaeridium granulatum*;
- f. *Valeria lophostriata*, fragment of specimen;
- g. *Trachyhystrichosphaera aimika*;
- h. *Chlorogloeaopsis kanshiensis*;
- i. *Karamia* sp.;
- j. *Artacellularia tetragonala*;
- k. *Artacellularia ellipsoida*;
- l. *Palaeolyngbya* sp.;

Precambrian microfossils from Mbuji-Mayi Supergroup, Democratic Republic of Congo (D.R.C)

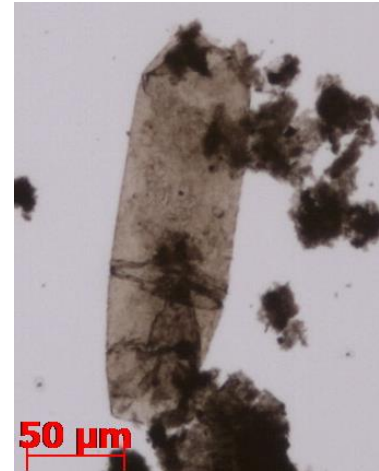
III. Microfossils from Kanshi B13 drillhole



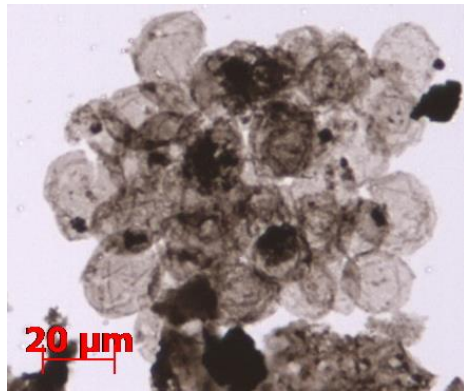
m



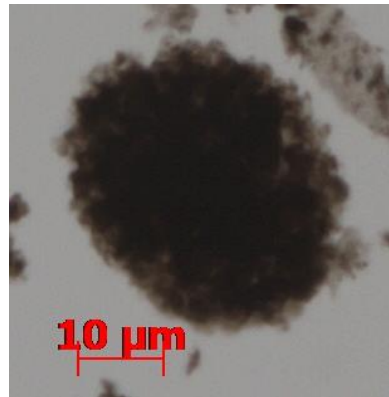
n



o



p



q

- m. Oscillatoriopsis spp;*
- n. Siphonophycus kestron;*
- o. Navifusa majensis;*
- p. Synsphaeridium spp;*
- q. Spumosina rubiginosa.*



**Thanks
for your
attention.**