

Electronic supplement for paper:

K. Žák, D. K. Richter, M. Filippi, R. Živor, M. Deininger, A. Mangini and D. Scholz.: Cryogenic cave carbonate – a new tool for estimation of the Last Glacial permafrost depth of the Central Europe. *Climate of the Past Discussions*

Examples of in situ occurrences of the cryogenic cave carbonate (CCC) and its different morphological forms



Fig. S1. General view of the typical occurrence of the CCC – a white powder/aggregate on the cave bottom. Heilenbecker Höhle, Germany. Photo by M. Filippi.

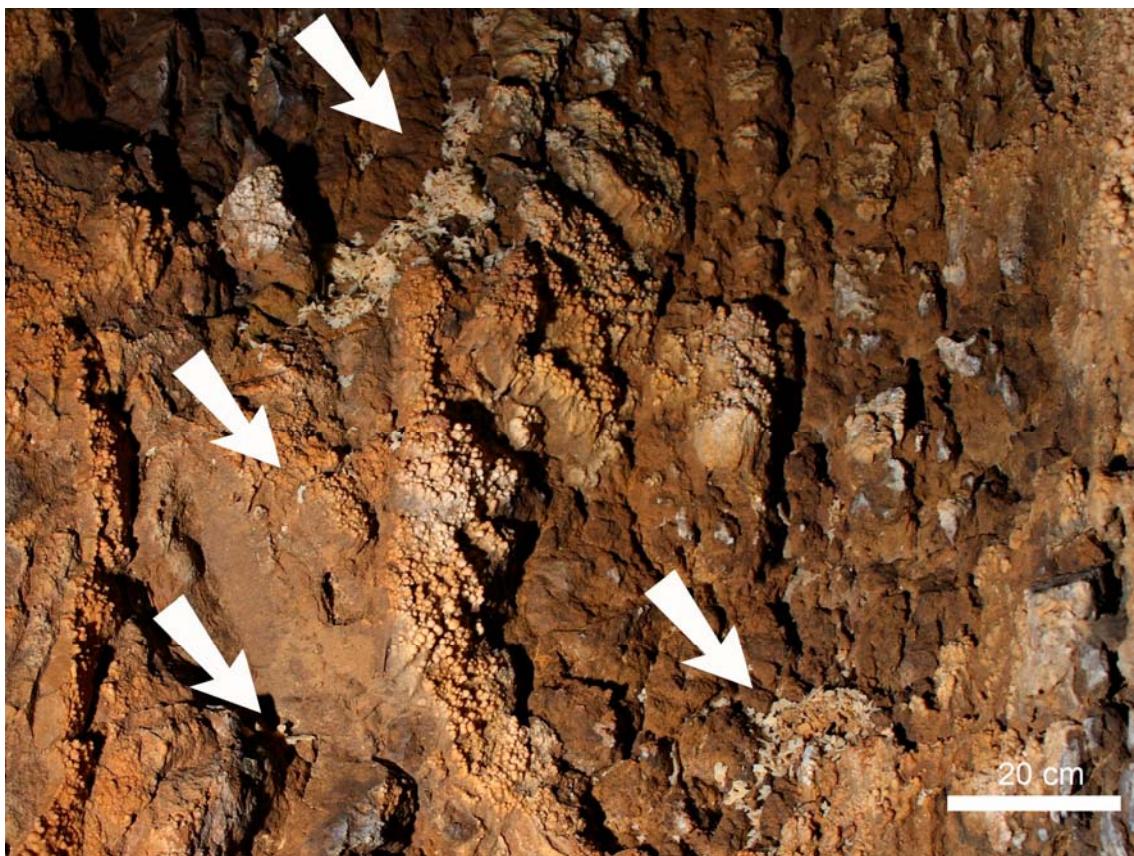


Fig. S2. The CCC trapped on the cave wall. Na Javorce Cave, Czech Republic. Photo by M. Filippi.

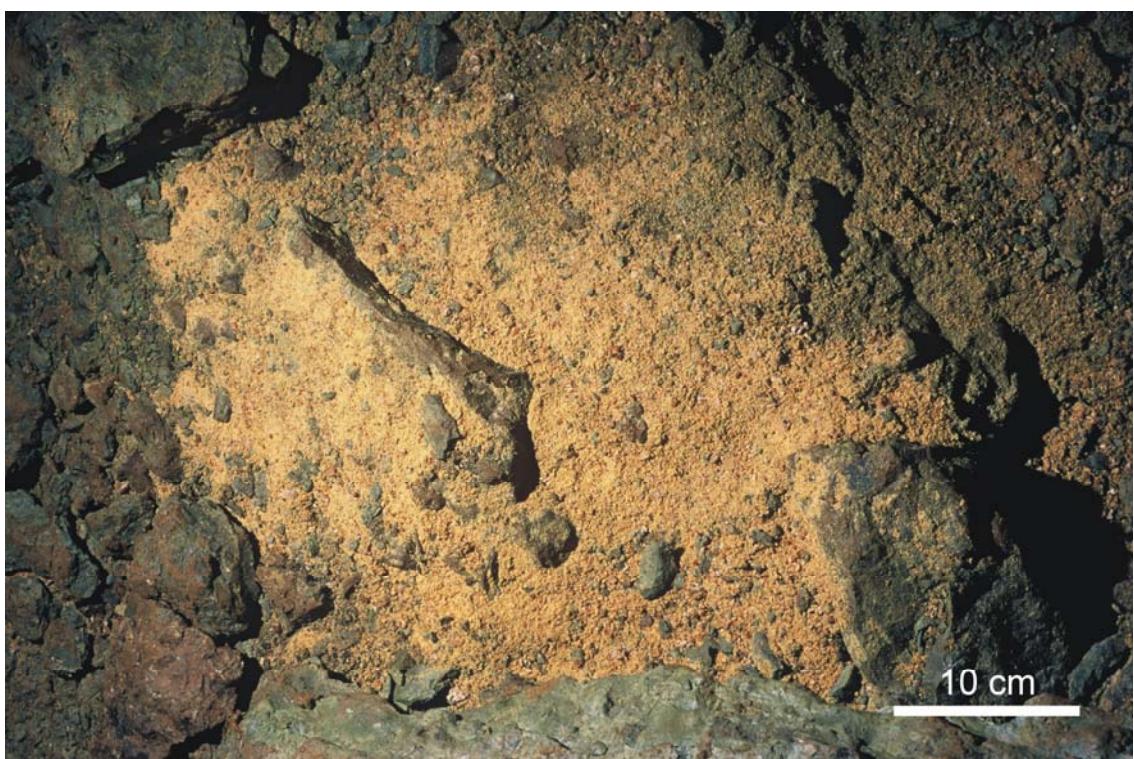


Fig. S3. Detailed view on accumulation of the loose CCC on the cave bottom. BUML Cave, Czech Republic. Photo by P. Zajíček.



Fig. S4. Loose CCC on the limestone block surface at the cave bottom. Studeného Vetsra Cave, Slovakia. Photo by M. Majer.



Fig. S5. Loose CCC on the surface of limestone blocks. Malachitdom, Germany. Photo by M. Filippi.



Fig. S6. Detailed view on the loose CCC covering the clay sediments on the cave bottom. Portálová Cave, Czech Republic. Photo by M. Majer



Fig. S7. A rosette aggregate of the CCC. Javoříčko Caves, Czech Republic. Photo by K. Žák.



Fig. S8. Irregularly developed CCC crystals and their aggregates. Hačova Cave, Slovakia. Photo by J. Brožek.



Fig. S9. Different CCC types (simple crystal, skeletal aggregates and globular form). Portálová Cave, Czech Republic. Photo by M. Filippi.

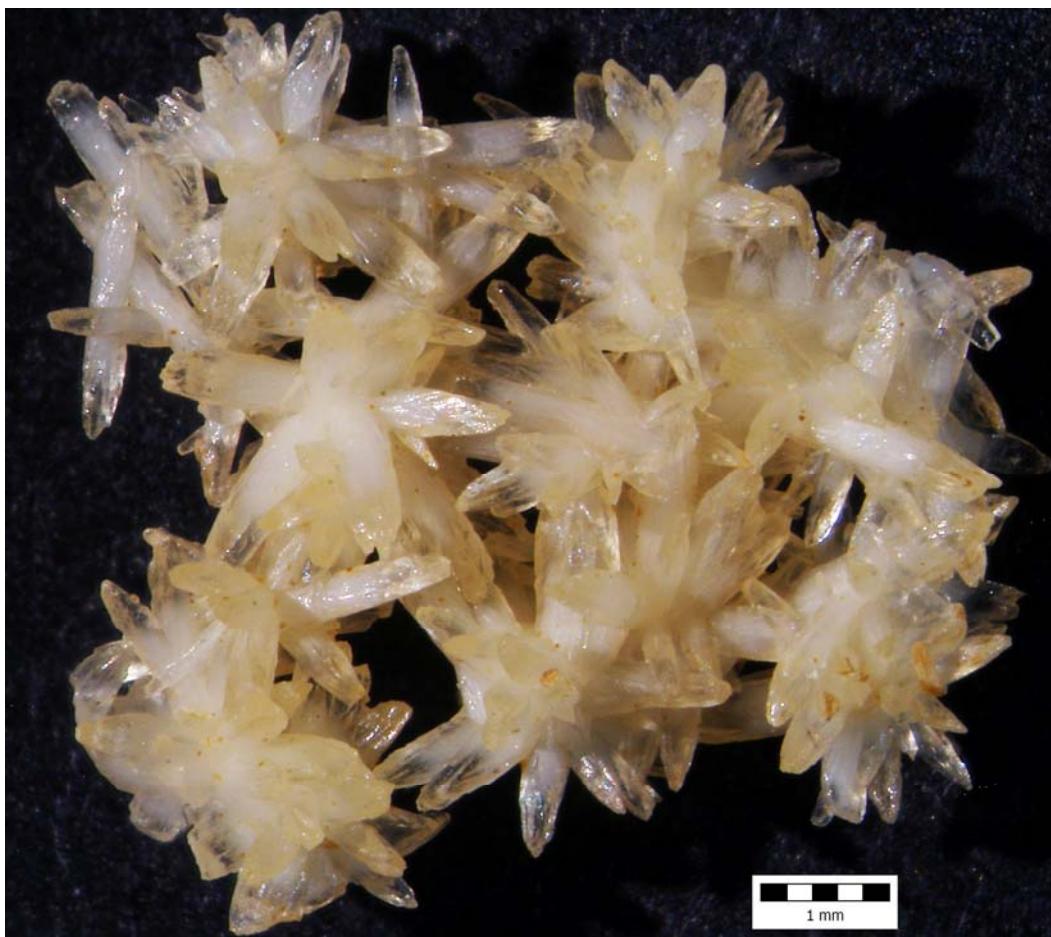


Fig. S10. “Raft-like” CCC aggregate. Javoříčko Caves, Czech Republic. Photo by M. Filippi.



Fig. S11. “Raft-like” CCC aggregate. Na Javorce Cave, Czech Republic. Photo by M. Filippi.



Fig. S12. Two-generation crystalline “raft-like” CCC aggregate. Na Javorce Cave, Czech Republic. Photo by M. Filippi.

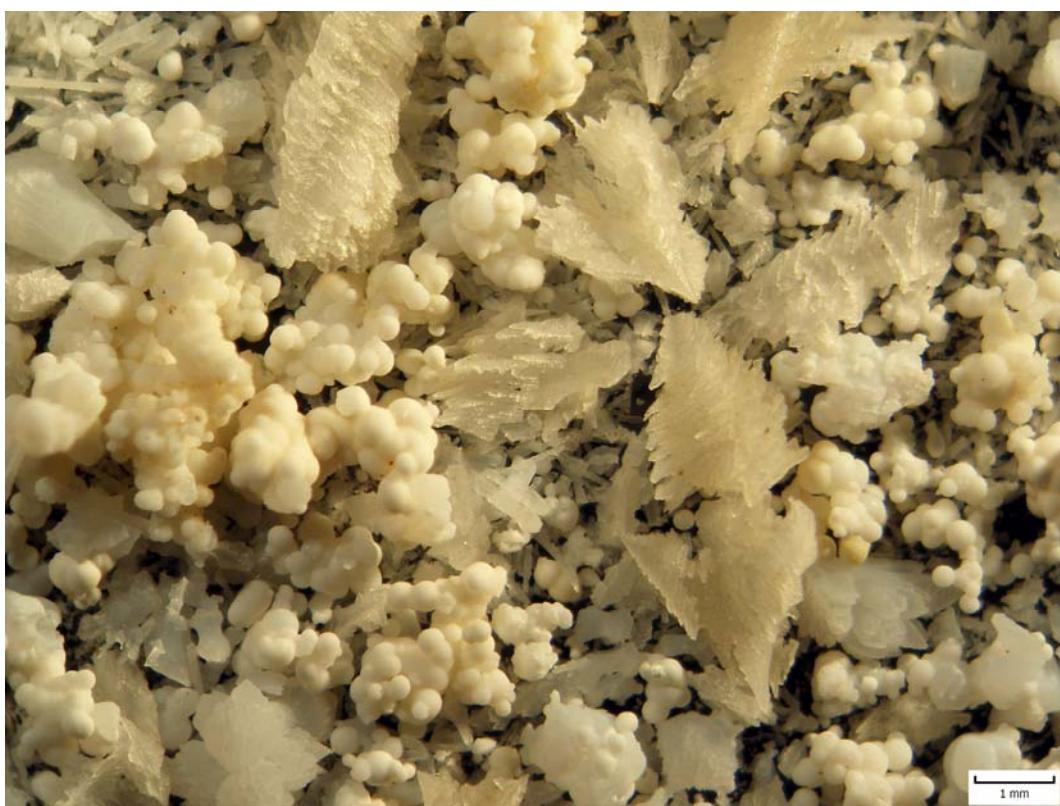


Fig. S13. Mixed skeletal and globular types of the CCC. Studeného Vatra Cave, Slovakia. Photo by M. Filippi.



Fig. S14. Globular (hemispheric) CCC on the limestone block at the cave bottom. Malachitdom, Germany. Photo by M. Filippi.

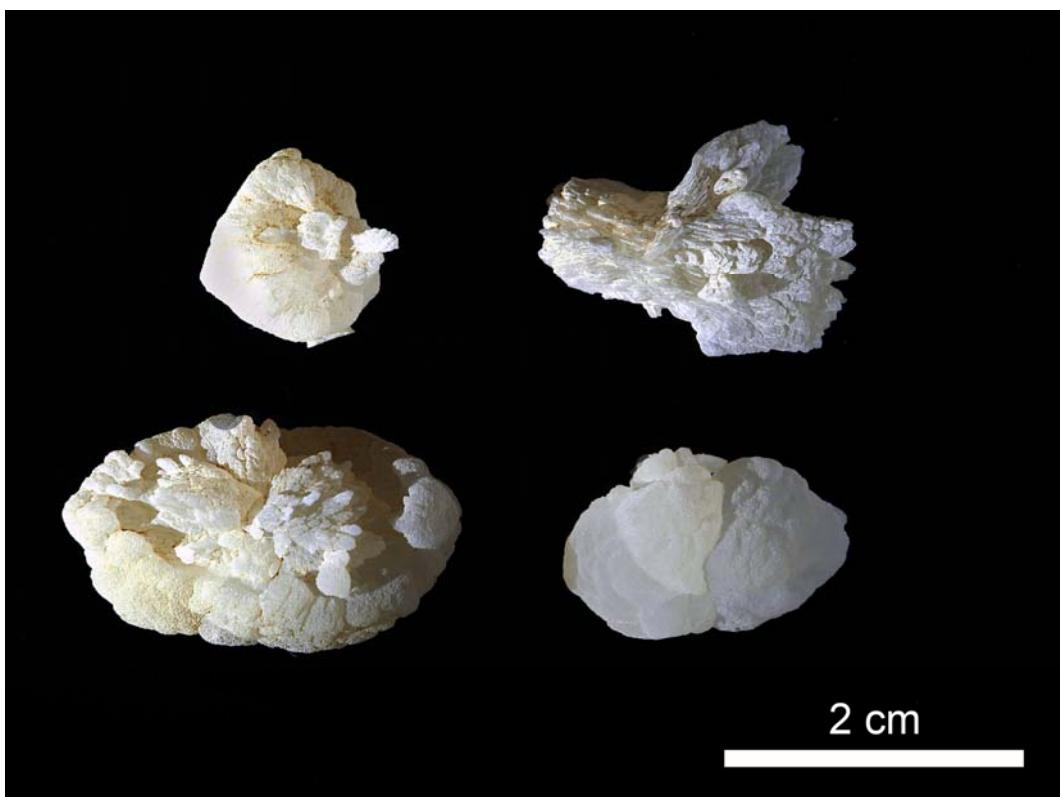


Fig. S15. Globular types of the CCC. Studeného Vatra Cave, Slovakia. Photo by J. Brožek.