Movie 1. The movie walks through the tomographic volume of a *Gemmata obscuriglobus* cell. The organization of the vesicles can be followed through the tomogram. The connections between vesicles can be observed at many points during the movie.

Movie 2. The movie walks through the tomographic volume and displays the steps of segmentation in a *Gemmata obscuriglobus* cell. Then only the segmented model is represented. Color code as in Fig. 1B.