# Palynostratigraphy and the Frasnian - Famenian boundary of the Devonian in the southeast of the Russian platform

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A break in sedimentation is detected in the southeast of the Russian platform at the boundary of the Frasnian and Famenian stages between the Liven and Zadon horizons. The Liven horizon is presented by inequifacies sediments including shallow-water sediments to the sediments of relatively deep-water part of the shelf (subzone Grandispora subsuta). The Zadon inquifacies packed-out sediments (zone Cyrtospora cristifer - Diaphanospora zadonica) are occuring in the Liven horizon.

Complete sections of the boundary Frasnian and Famenian deposits have been exposed in the Volga regions near Volgograd and Saratov (the Umetovsko - Linevskaya depression). Linevsko - Umetovskian sediments of the Famenian stage are occurring in the Liven horizon and were determined as the Volgograd regional horizon. This horizon is presented by carbonate - clayey rocks nearly 320 m thick in the relatively deep-water part of the shelf. The Volgograd horizon is characterized by a zonal miospore assemblage Corbulispora vimineus - Geminospora vasjamica (zone Palmatolepis triangularis conodonts) which is absent in the Central regions of the Russian platform.

The western edge of the PreCaspian depression comprises sections which are characterized by the presence of washed-out carbonate-clayey deposits of the Volgograd horizon, 240 m in thickness, occurring in the Semilouky horizon (zone Archaeoperisaccus ovalis - Verrucosisporites grumosus). These materials are not published. With there sections occurring in the region we have to change our opinion about Paleogeography of the region and to assume that the Volgograd horizon is spreading into the PreCaspian depression.