Abstrakt

In my thesis I would like to summarize informations about SW part of the Teplá-Barrandian Unit. Particularly interesting situation is in the Teplá Crystalline Complex and Mariánské-Lázně Complex during Cambro-Ordovician rifting. At the beginning I will remind some basic information about Bohemian Massif (evolution and distribution). The next part of the thesis is dedicated to the west part of the Teplá-Barrandian Unit in the context of sedimentary record in the eastern part of the Unit. In two other captures is described Teplá Crystalline and Domažlice Crystalline Complex with emphasis on the plutons, which help us to reveal evolution of this area. In the third part of the thesis I will characterize Mariánské-Lázně Complex (lithology, dating and evolution). This complex was interpreted as a dismembered Cambro-Ordovician metaophiolite complex affected by Variscan subduction. But the latest studies show that the HP rocks protoliths are late Cadomian age, thus the eclogites probably originated during exhumation of this area. According to new results the Mariánské-Lázně Complex represent a metamorfic core complex and the Teplá Crystalline Complex is the detached roof of it. The corronitic metagabbros on the border between Mariánské-Lázně and Teplá Crystaline complex are generally interpreted to be the first evidence of the Cambro-Ordovician rifting event