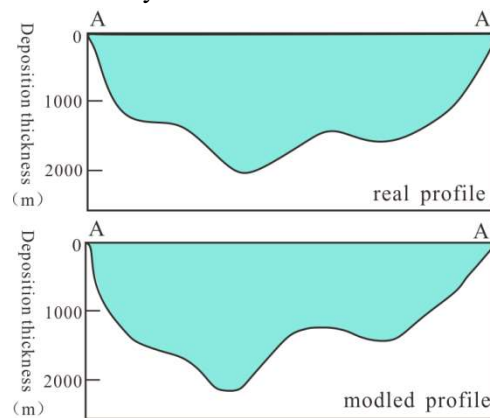
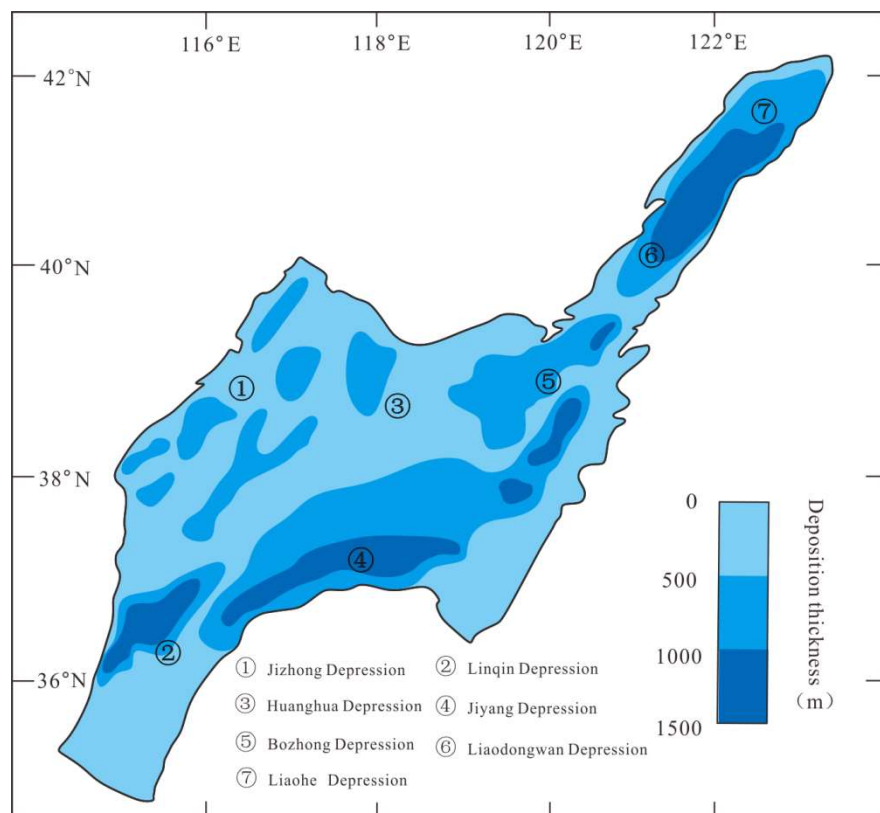


In order to verify the reliability of the model results, in this paper, the actual geological evolution profile of Ordos Basin (Figure 1) is selected, and then the sedimentary evolution profile of the corresponding positions in the model is compared, and the two have a good correspondence. In addition, Direction of ancient currents during key geological periods in the study area (see poster) and the sedimentary thickness of early Cretaceous strata in Bohai Bay Basin is compared (Figure 2), in which the Jizhong depression, Bohai Middle depression and Huanghua depression are small, both less than 1000m, and the Jiyang depression is about 700m-1400m, which is the sedimentary center of Bohai Bay Basin in the Cretaceous. The deposit thickness, position and morphology of the Cretaceous strata in the simulated basin and some secondary depressions are well consistent with the results revealed by the seismic data.



**Fig. 4 Comparison between the modeled profile and the geological profile in Ordos Basin (According to Gong et al., 2016)**



**Fig. 5 Modeled Early Cretaceous sedimentary thickness in the Bohai Bay Basin**

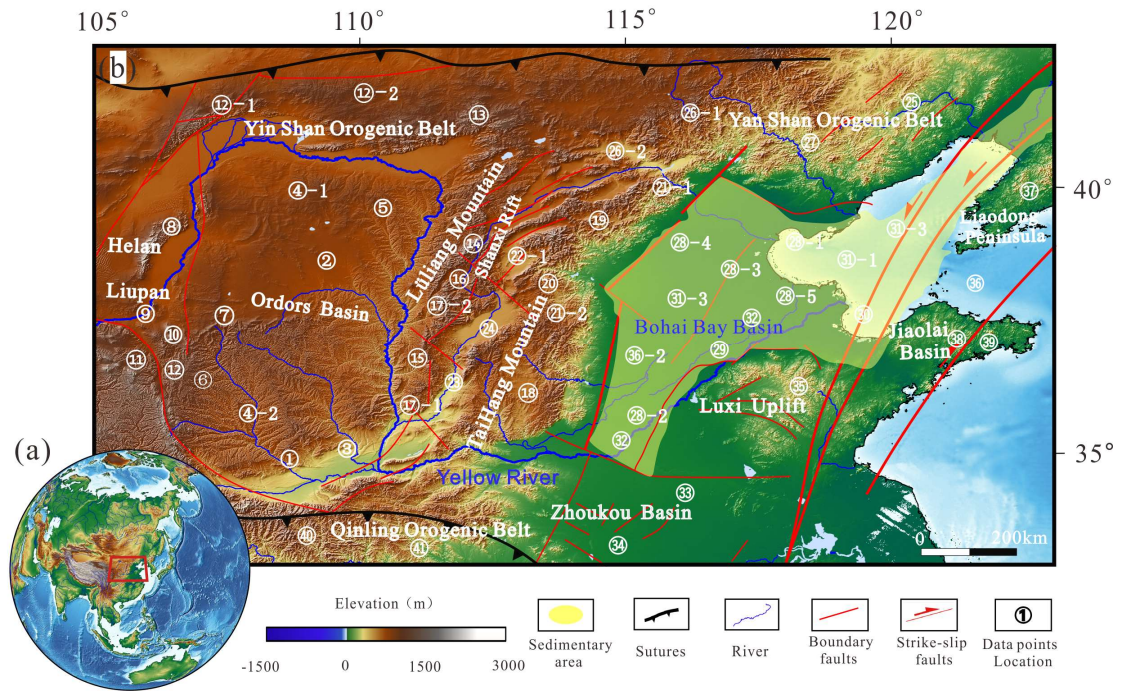
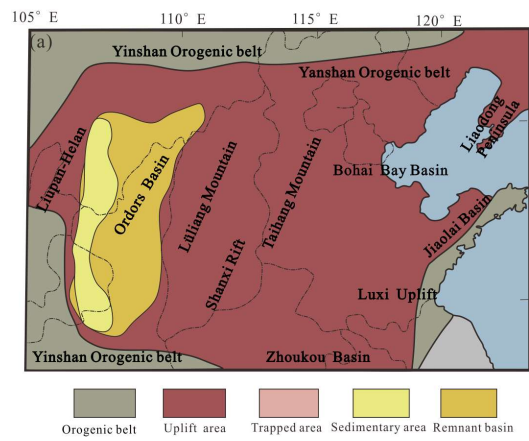


Fig1

(a) 145Ma Paleogeography



(b) 145Ma Modded elevation

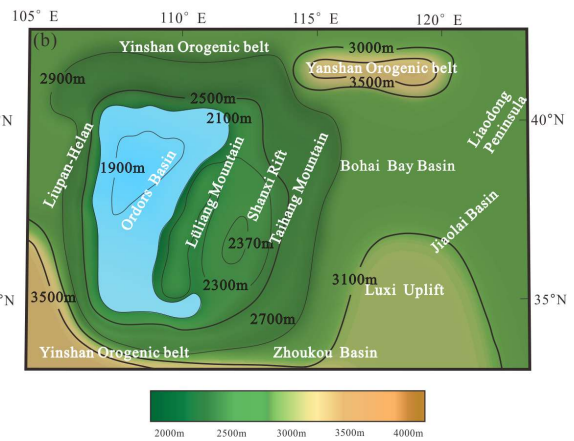


Fig2

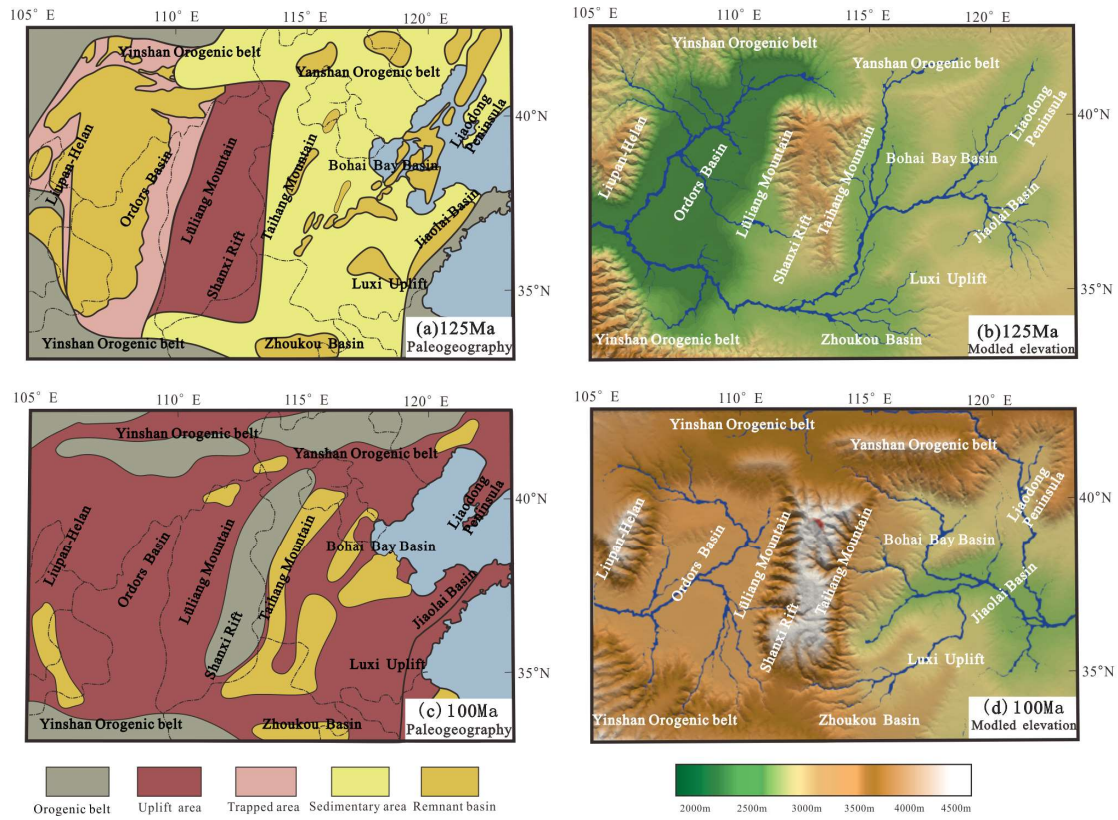


Fig3

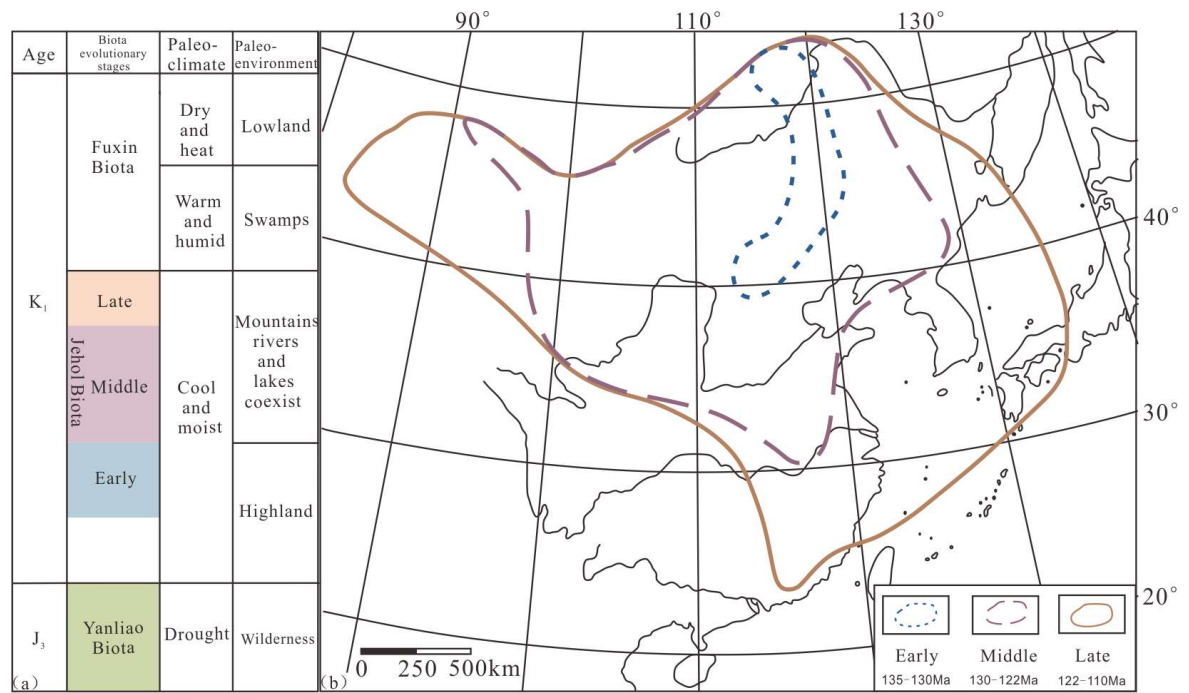
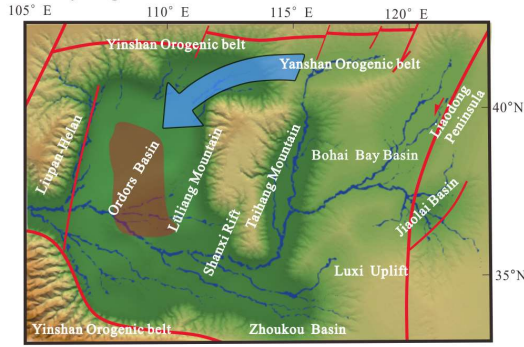
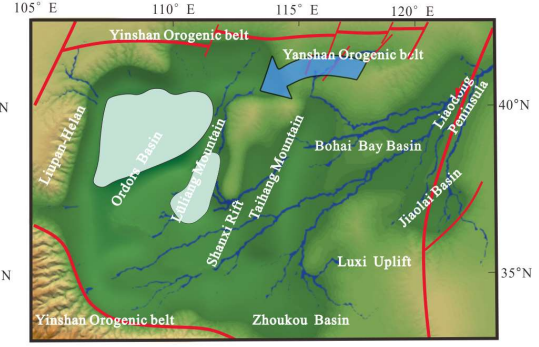


Fig4

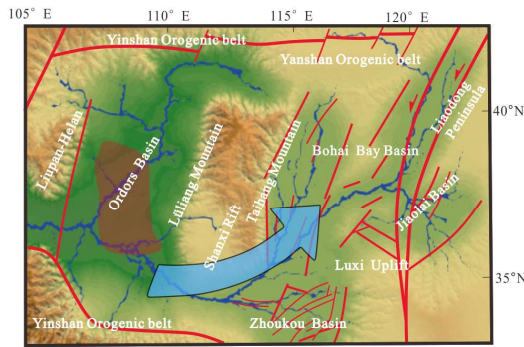
(b) 130Ma Early stages of the Jehol biota



(a) 135Ma Rise of the Jehol biota



(c) 122Ma Middle stages of the Jehol biota



(d) 110Ma Late stages of the Jehol biota

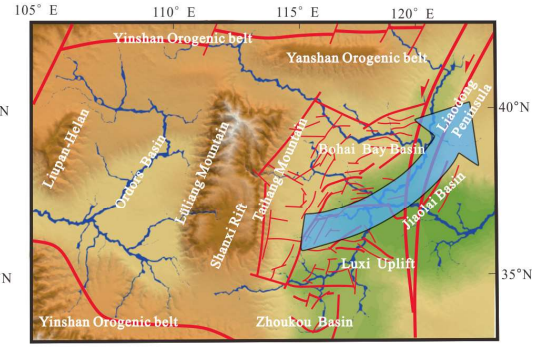


Fig5