The rift-sag successor basins, which developed on these welded micro-plates and accretionary wedges after collision, feature hydrocarbon systems produced from mostly non-marine rocks in China and mostly marine rocks in Russia. Example successor basins include the marine Jurassic-Cretaceous West Siberian interior sag basin formed over several micro-plates; the non-marine, Cretaceous-Tertiary, rift-sag Songliao and North China basins; and the neogene extensional strike-slip North Sakhalin Basin.

The compressional basins formed as a result of late Paleozoic to Cenozoic plate collisions. These basins feature hydrocarbon systems in marine and/or non-marine rocks depending on the paleogeographic setting. The best example is the late Paleozoic-Mesozoic, non-marine Junggar Basin in Northwest China.