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Tectonic Stages Theory (TSTh), Plates Reconstruction and Alpine Tectonics

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Traditional Tectonic studies generally create maps includes effects of several tectonics titled, Tectonic Elements Map. This study used stratigraphy and basins analysis, to detect tectonics stages, in order to differentiate and to separate each tectonic stage effect, and to create map for each tectonic stage.

So on using this method of work new theory discovered given the title The Tectonic Stages Theory (TSTh) - Alshakir 1992.

A complete study covered all the stratigraphic sections in iraq as application of the TSTh. But this paper represents example only of TSTh and restricted to, Alpine tectonics, the previously called Alpine orogenies early, middle and late as convergent, affected in NW direction, collision of the Arabian plate with the Iranian- Eurasian plate, Cretaceous – recent, this is as in previous literatures believes.

According to the TSTh principles, the present study proved that:

- The Alpine Tectonics, their effect on the part of the Arabian plate in iraq, Cretaceous to recent, in fact are many stages grouped in several main tectonic stages, more than three, and acted in different directions.
- The only compressional tectonic one was that acted from Pliocene Pleistocene, which represents the collision of the African Arabian Plates with the Iranian Eurasian Plates, resulted in building of zagrose, alpine folds series. While all the other tectonics are tensional and divergent including the recent, present, affecting one.
- Tectonics Stages detections, new tectonics discovery not mentioned globally, new ideas of Plates determination and reconstruction, ignore the old idea of Plates rotation or tilts with time.

Biography:

Mohammed M.Y. Alshakir was born on April 23, 1947. He completed his B.Sc. General Geology in 1970 at Mosul university, Iraq. He is retired as a senior chief geologist at 2010. He has 39 years of experience in Iraqi Nation Oil companies. He discovered the Tectonic Stages Theory at 1992, first application Tectonic of Iraq in 1993.