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## Latitude dependence of sedimentation basins as a result of tidal evolution and change of rotation's velocity of the Earth

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It was calculated the sedimentation squares (areas of transgression and regression)in geological intervals of Mesozoic and Cenozoic epochs based on the Atlas of litological-paleogeographical formations (Ed. V.Khain, 1989). The latitude zonning of sedimentation basins in latitude intervals 0-20, 20-40, 40-60 to the South and to the North correlates with the periodical movement of axis rotation into the Earth's body and change of rotation velocity.

The intensivity of sedimentary areas expansion is minimal in Jurassic and Cretaceous and much more in Triassic and Cenozoic especially. The transgression maximum was in latitude interval 20-40 for the North hemisphere for the all studied geological epochs.

It has been established the minimal transgression for subequatorial areas and noticeable increasing to the more higher latitudes, in particular for the South hemisphere. This fact is accord to the conclusion on variations of the World Ocean level in equatorial and high latitude areas at the Earth's axial rotation velosity change.

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