

*Gotze Tenchov. AN APPROACH TO PALEOZOIC SEA LEVEL USING THE THE  $\delta\text{O}^{18}$  TEMPERATURE DATA*

Mean sea level is the average height of the sea, with reference to a suitable reference surface. Sea level has changed over geologic time. Geologists derived the sea level position over geologic time using sequence stratigraphy. There exist several reconstructions of sea level over Paleozoic time but they are quite different. On the other hand the sea level mirrors oxygen isotope temperature curve. Here is lanced the idea that the melting of ice sheets produced a huge amount of cold water. It flew to the ocean and cooled the ocean water. Higher sea water produced the higher negative drop of sea water temperature and contrariwise. Using such idea was generated a new sea level curve for Paleozoic time. The new sea level curve was obtained without using sequence stratigraphy. It can be combined with sequence stratigraphy for better understanding the Paleozoic events into the ocean.

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