

Geocentric Sea Level Changes at Tide Gauge Station in Władysławowo

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SUMMARY

Knowledge of the changes in the mean sea level is important in geodynamic, climatology and other fields. The present work shows the geocentric changes of sea level at the tide gauge Władysławowo on the Polish coast of the Baltic Sea. Changes in sea level were estimated from tide gauge and permanent GNSS observations. We used the monthly mean tide gauge readings from 1951 -2017 obtained from Institute of Meteorology and Water Management . Daily GPS time series of Władysławowo station were downloaded from the Nevada Geodetic Laboratory (NGL) from April 2003 to February 2011. Computed in this work the absolute mean sea level changes at the station Władysławowo was estimated as +2.99 mm/year with the error of ± 0.41 mm/year.

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