



A improved tidal method without water level

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Now most tide are obtained use water Level and pressure type water gage, but it is difficult to install them and reading is in low accuracy in this method . In view of above-mentioned facts, In order to improve tide accuracy, A improved method is introduced.sea level is obtained in given time using high-precision GNSS buoy combined instantaneous position from pressure gage. two steps are as following,

- (1) the GNSS time service is used as the source of synchronization reference in tidal measurement;
- (2) centimeter-level sea surface positions are obtained in real time using difference GNSS

The improved method used in seafloor topography survey [U+FF0C] in 145 cross points, 95% meet the requirements of the Hydrographic survey specification. It is effective method to obtain higher accuracy tide.