

Recent vertical motions of bench marks along Route 1

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Vertical deformation along Route 1 since 1977 is outlined.

Through fitting Chebysheff polynomial to time series of elevation change of each bench marks, it is shown that stable subduction is dominant on the west coast of Suruga-bay. Other than such linear trend, 2nd order terms are dominant. In other words,

Since 1977 to 1982, area of subsidence spreaded toward west and stopped. And then in 2000, that started shrinking. Presently, upheaval related to slow slip event is dominant in this area. Spreading of area of subsidence may be related to cease of uplift related to 1944 Tonankai earthquake. Recent vertical motion in this area is thus controlled by stable subduction in the eastern part and slow slip event in the western part.