

## Deep fault zone in the axis of southwestern Okinawa Trough

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We analyzed the faults system in the southwestern part of the Okinawa Trough. First we compute the fault parameters in the Yaeyama Graben. We estimated the start of the faulting as a hundred thousand years ago. Pattern of the vertical displacement in the Yaeyama Graben is consistent with two normal faults model. Dips of the faults are 20 northward and 40 degrees southward, respectively. Displacement rate of the fault is 2.5 mm per year. Next we compute the fault parameters in the Yonaguni Graben. We estimated the start of the faulting as thirty thousands years ago. Pattern of the vertical displacement in the Yonaguni Graben is consistent with two normal faults model. Dips of the faults are 40 degrees. Displacement rate of the fault is 10 mm per year.