Interactive comment on "Probabilistic tsunami inundation assessment of Kuroshio Town,Kochi Prefecture, Japan considering the Nankai-Tonankai megathrust rupture scenarios" *by* Katsuichiro Goda et al.

Katsuichiro Goda et al.

kgoda2@uwo.ca

Received and published: 3 July 2020

Dear Referee 2. We appreciate your positive comments on the manuscript.

Response to comment 1: for the case of vertical evacuation tower in the Saga district, tsunami inundation did not happen for 8 cases out of the 11 CDMC tsunami source models. These cases are not included in Figures 11b and 11d. To clarify this in the manuscript, the following sentence is added: 'In Figure 11, the inundation results based on the 11 CDMC source models are also presented, noting that the vertical evacuation

tower in the Saga district is inundated for 3 cases out of the 11 models (i.e. model 4, 5, and 10; see Figure 2) and thus only three square markers are shown in Figures 11b and 11d.'

Response to comment 2: We appreciate the referee for pointing out this unclear aspect. In our tsunami simulations, bathymetry-elevation data provided by the Cabinet Office of the Japanese Government are used as they are. This means that, as mentioned in the manuscript, no sea-level (tidal) variations are considered in our tsunami simulations. The reference sea level does not correspond to the mean high water level. We do not intend to mean that the effects of tidal variation are negligible. To clarify this point in the manuscript, the following sentence is added: 'However, the effects of tidal variations (e.g. mean high water level) are not considered in the simulations.'

―――――――――――――――