

Supplementary Material for

Hydraulic Tomography for Estimating the Diffusivity of Heterogeneous **Aquifers**

Based on Groundwater Response to Tidal **Fluctuation in **an Artificial Island in****

Taiwan

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Text S1: Long-term groundwater levels of the 55 observation wells

The long-term groundwater levels of the 55 observation wells are shown in Figure S1 (a ~ bc). The long-term groundwater levels of each observation well present a significant impact due to the precipitation recharge in May 2014. Moreover, the long-term groundwater levels of the observation wells ob03, ob09, ob24, ob39, and ob43 are affected the most by tidal fluctuation.

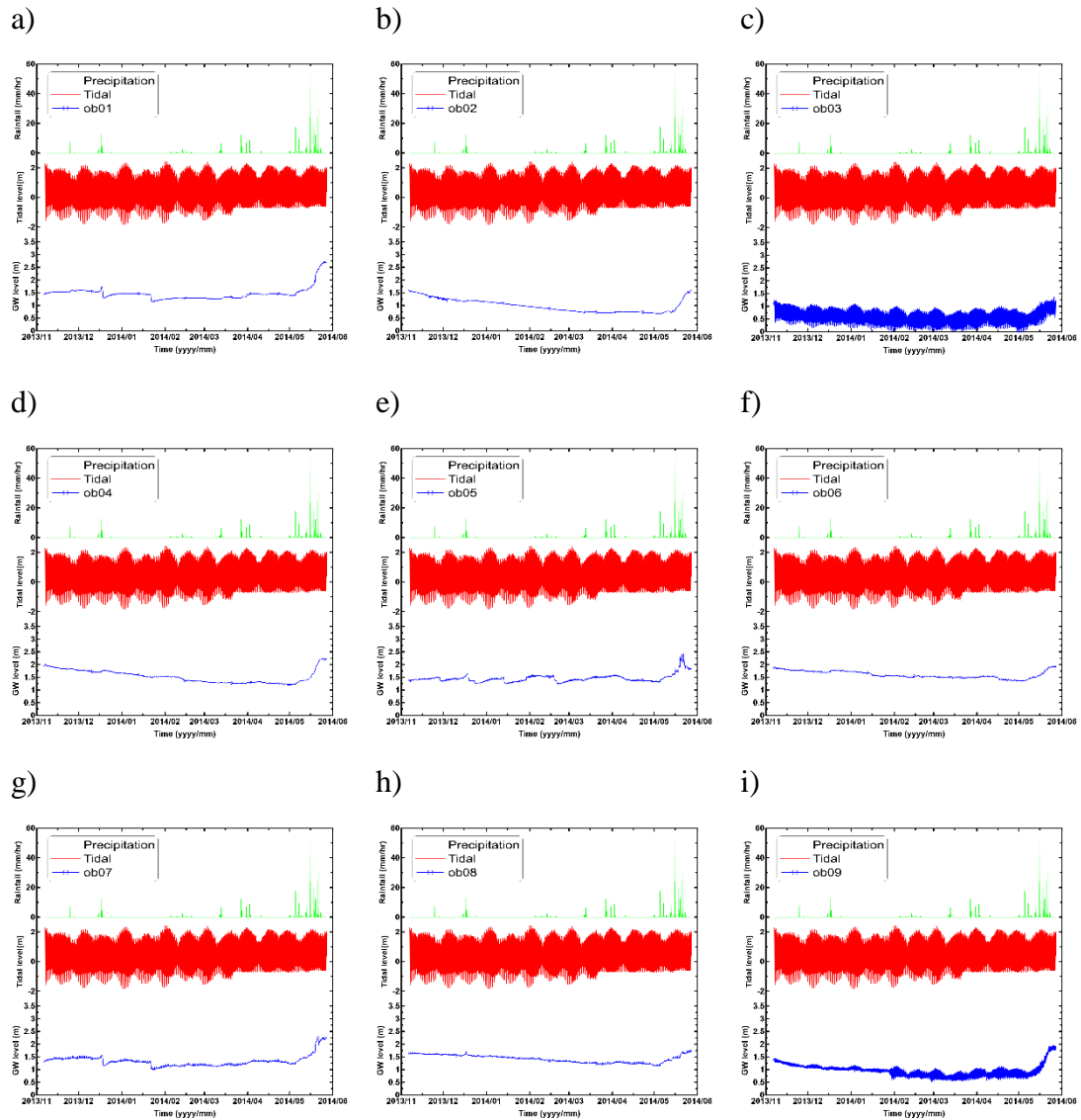
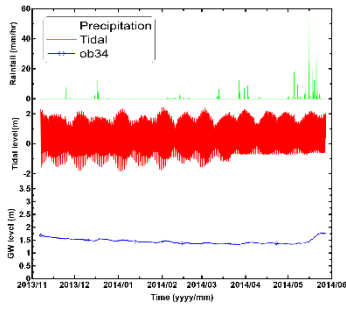
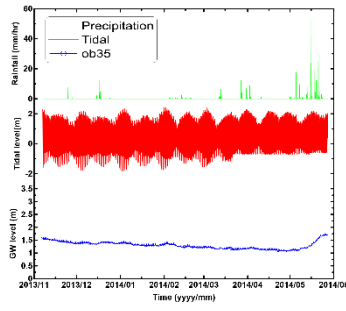


Figure 1 consists of three vertically stacked panels sharing a common x-axis representing time from 2013/11 to 2014/06. The top panel displays Rainfall (mm/hr) as green vertical bars, with peaks reaching up to 60 mm/hr. The middle panel shows Tidal level (m) as a red line oscillating between approximately -2 m and 2 m. The bottom panel shows GW level (m) as a blue line that starts at 2.0 m, decreases to a minimum of about 1.5 m in early 2014, and then rises back to 2.0 m by mid-2014.

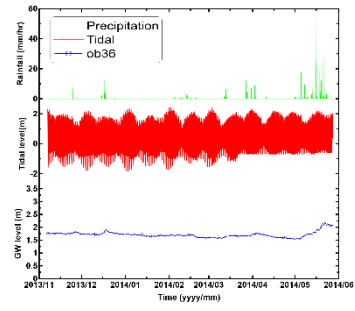
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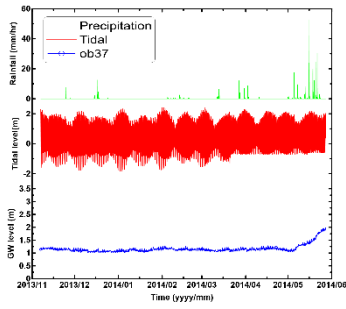
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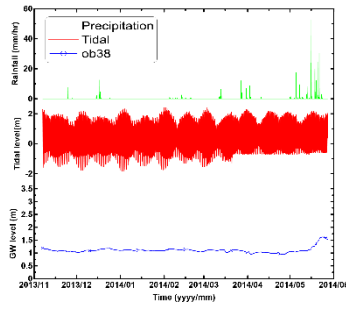
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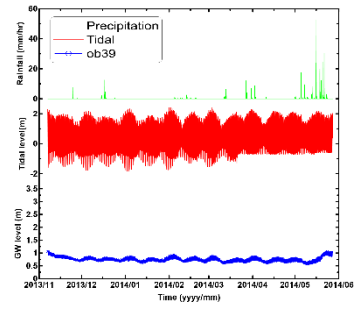
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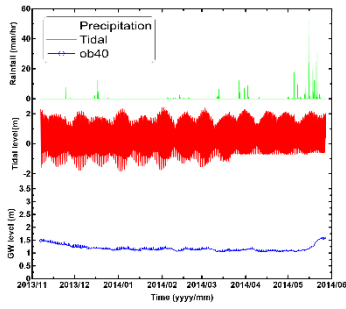
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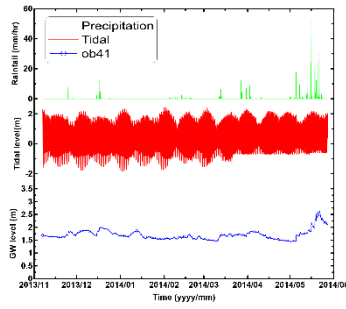
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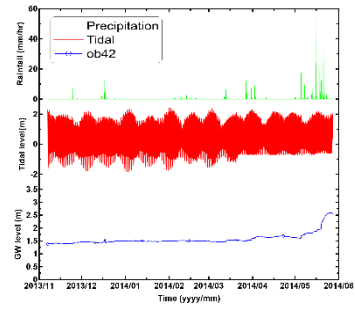
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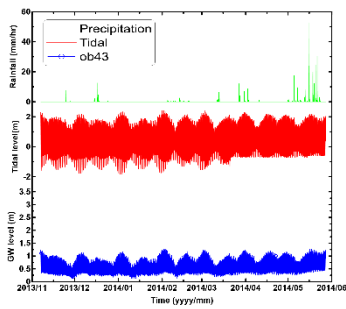
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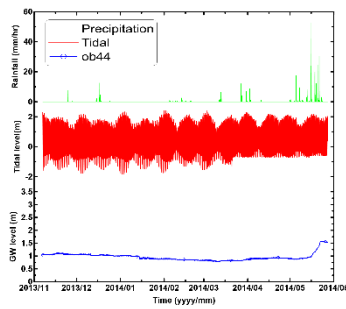
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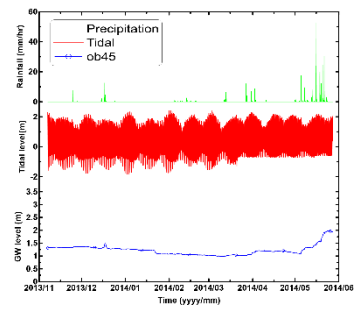
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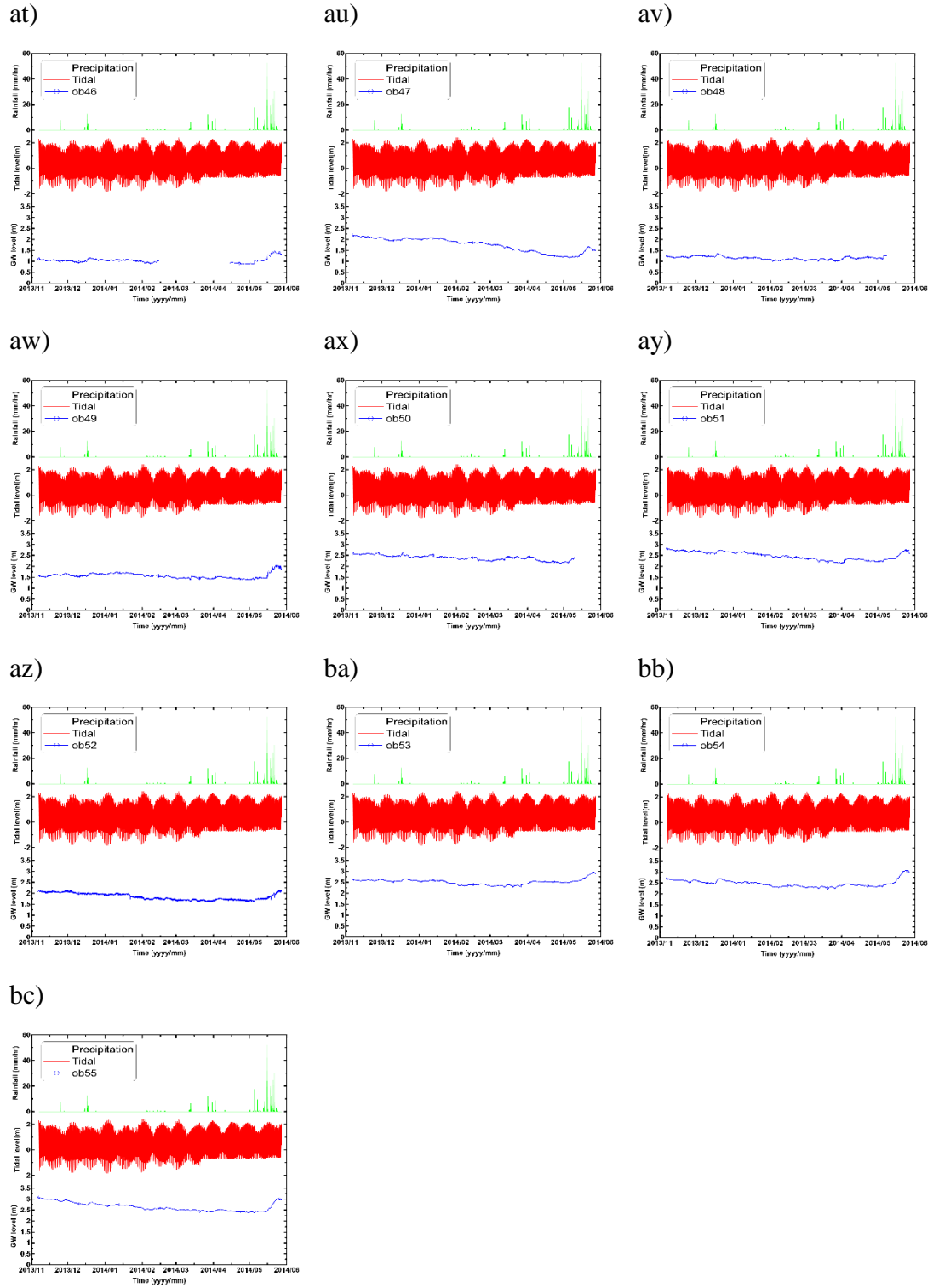


Figure S1(a ~ bc): Long-term rainfall, tidal and groundwater levels of each observation well during the period: 11/07/2013 ~ 05/27/2014.