

# Monitoring groundwater level fluctuation and safe utilization of groundwater in different geo-hydrological regions

Objectives: To determine the fluctuation of groundwater level over time

## Results and discussions

### Groundwater level in Gazipur

Weekly groundwater level (m) presented in the fig. Decreasing trend of groundwater level with time is very sharp ( $r^2=0.95$ ). Fluctuation of groundwater level has no correlation with rainfall.

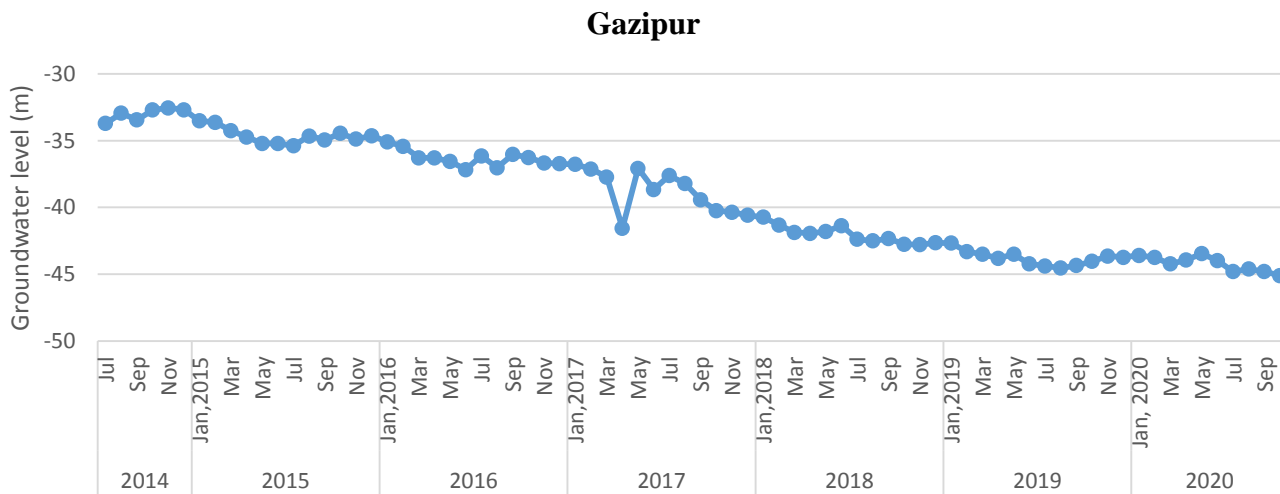


Fig Weekly groundwater level in meter in Gazipur during 2014-2020

The maximum and minimum level of groundwater is presented in the fig.

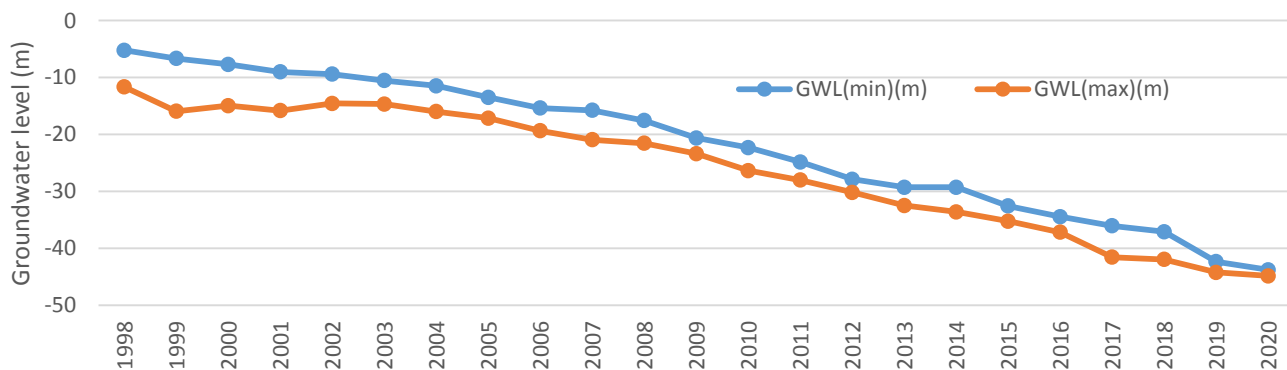


Fig Long term annual maximum and minimum groundwater level in gazipur during 1998-2020.

## Groundwater level in different regional station

### Rajshahi

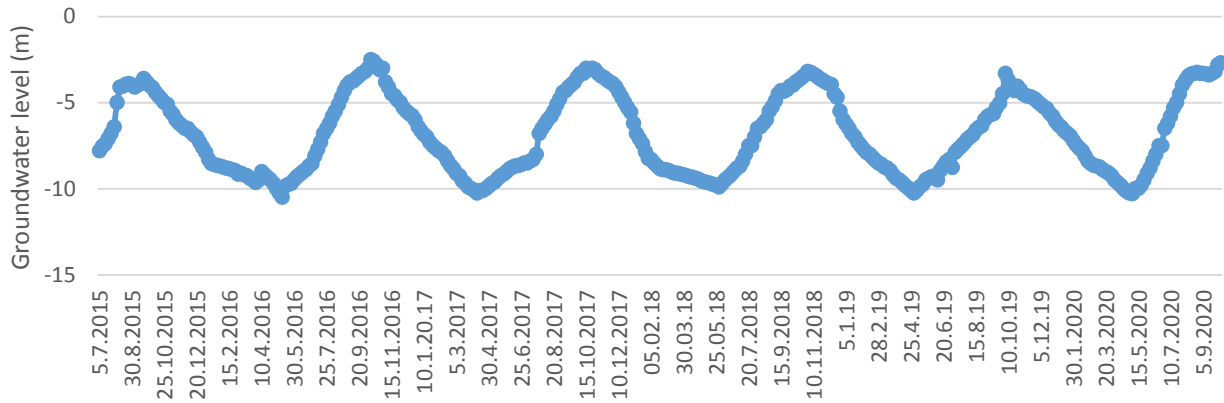


Fig Weekly groundwater level (m) in Rajshahi during 2015-2020

### Rangpur

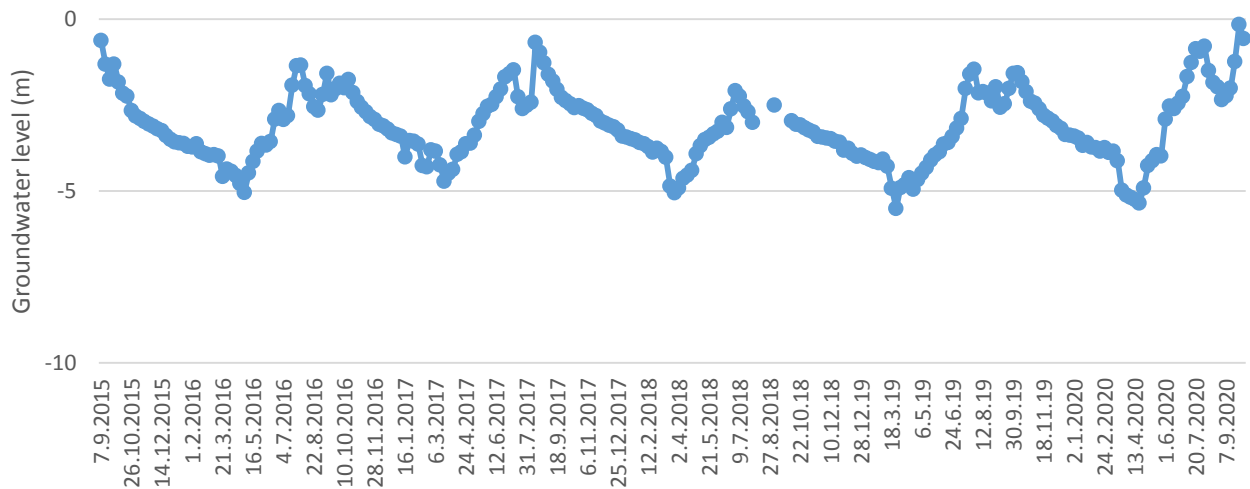


Fig Weekly groundwater level (m) in Rangpur during 2015-2020

### Kushtia

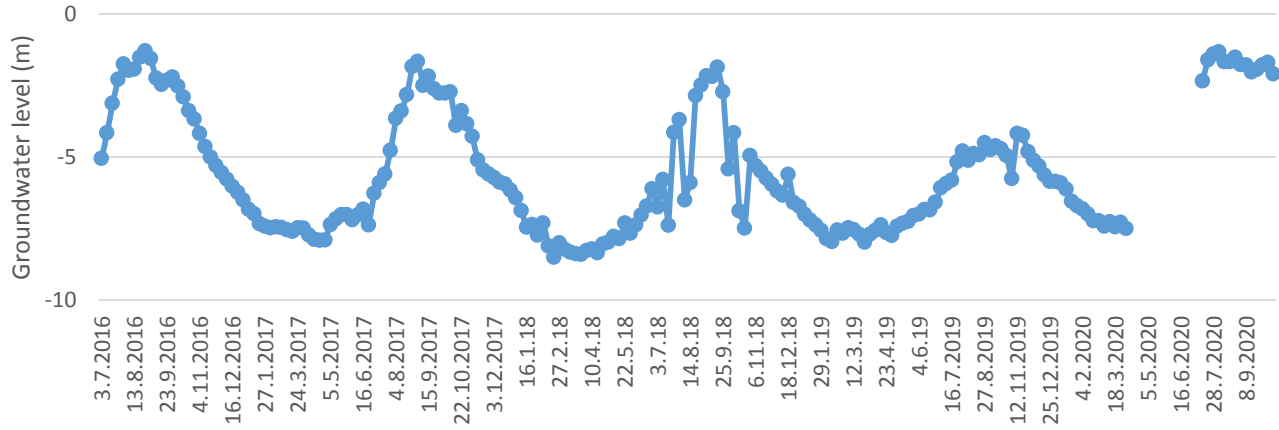


Fig Weekly groundwater level (m) in Kushtia during 2016-2020

### Satkhira

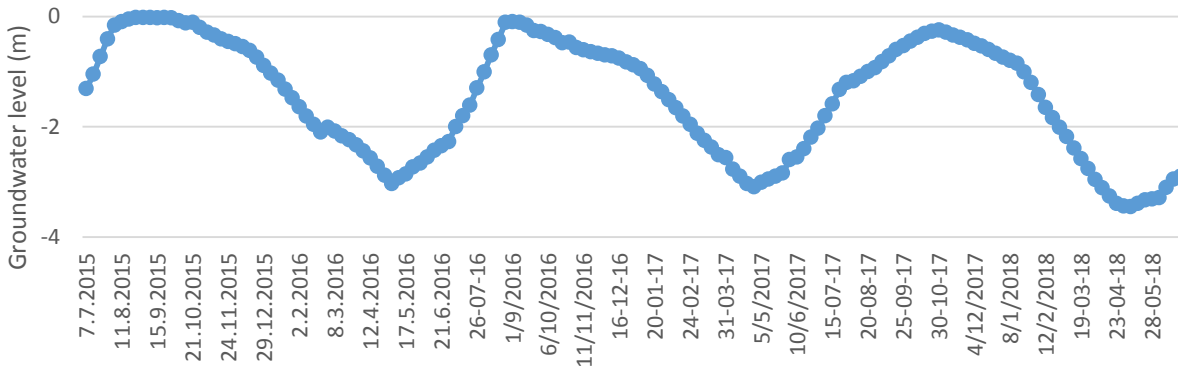


Fig Weekly groundwater level (m) in Satkhira during 2015-2020

### Bhanga

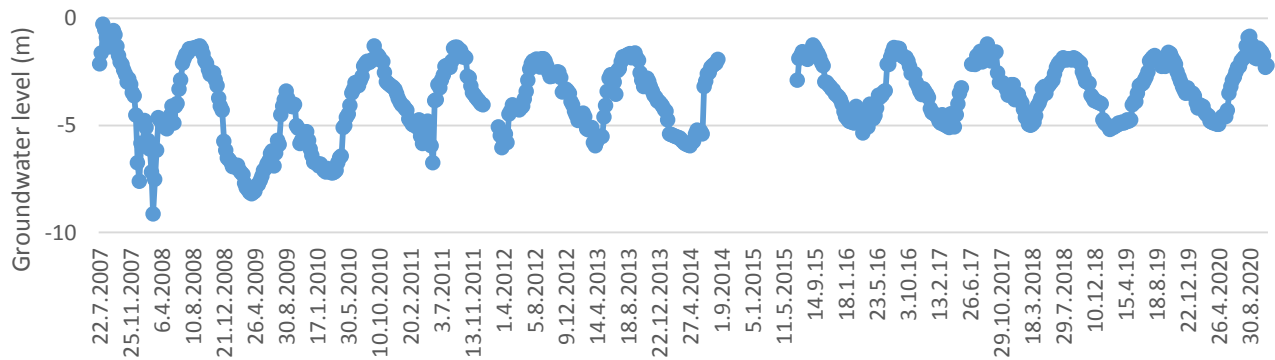


Fig Weekly groundwater level (m) in Bhanga during 2007-2020

### Barisal

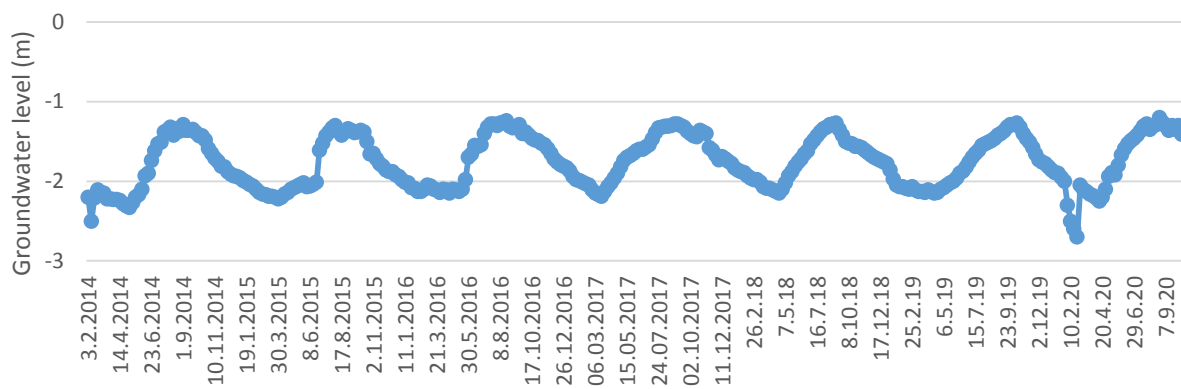


Fig Weekly groundwater level (m) in Barisal during 2014-2020

### Hobiganj

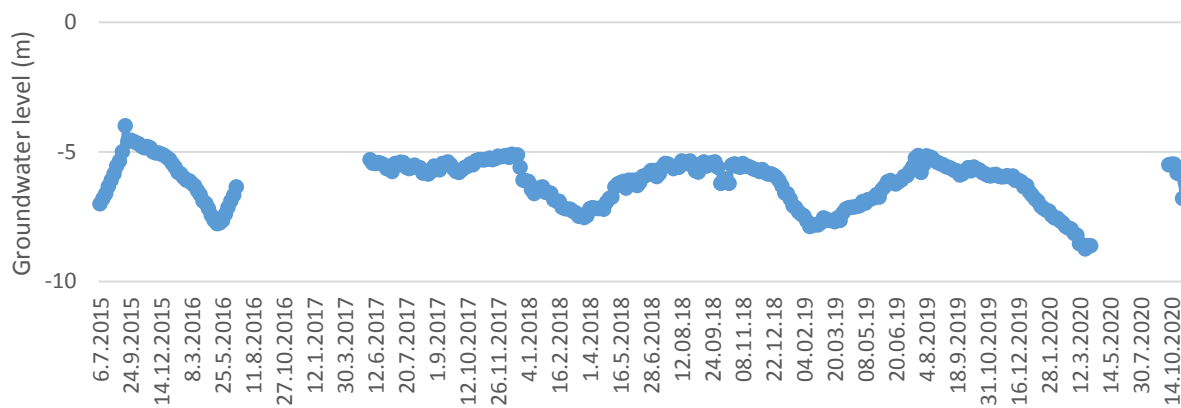


Fig Weekly groundwater level (m) in Hobiganj during 2015-2020

### Cumilla

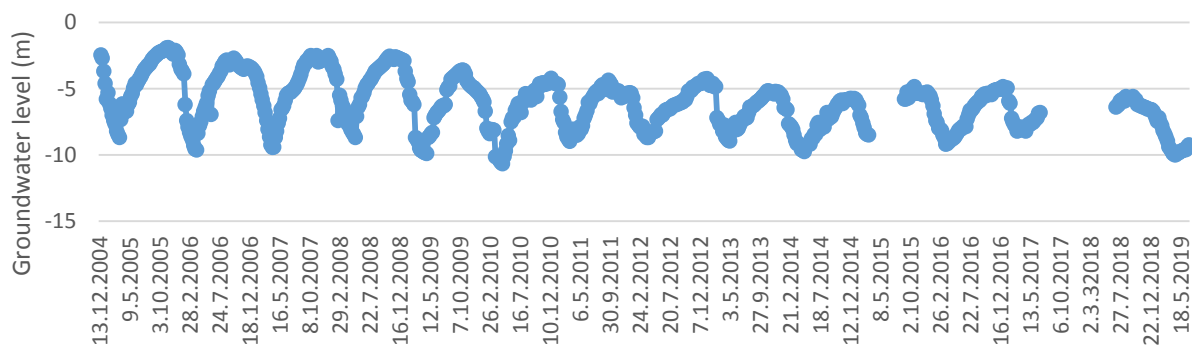


Fig Weekly groundwater level (m) in Cumilla during 2014-2020

## Sonagazi

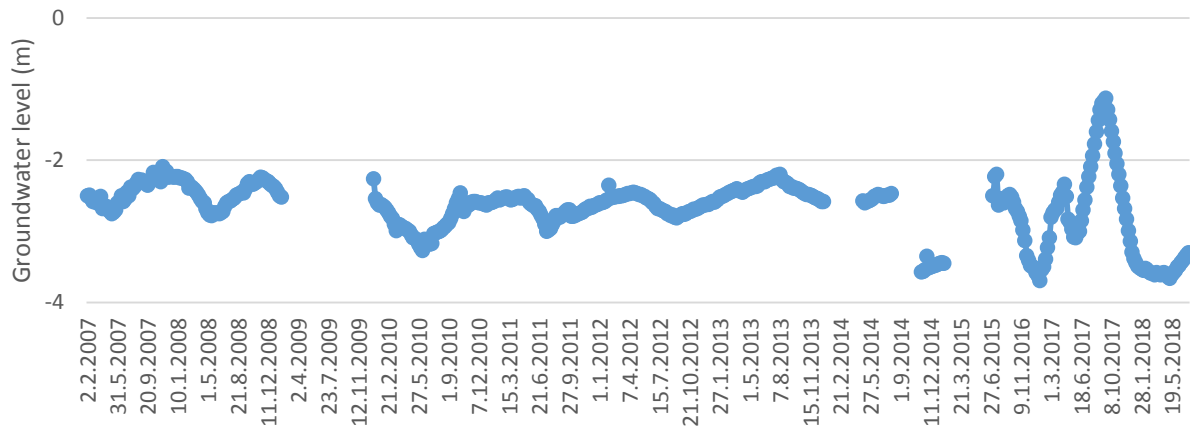


Fig Weekly groundwater level (m) in Sonagazi during 2007-2020

Source: Irrigation and Water Management Division, BRRI