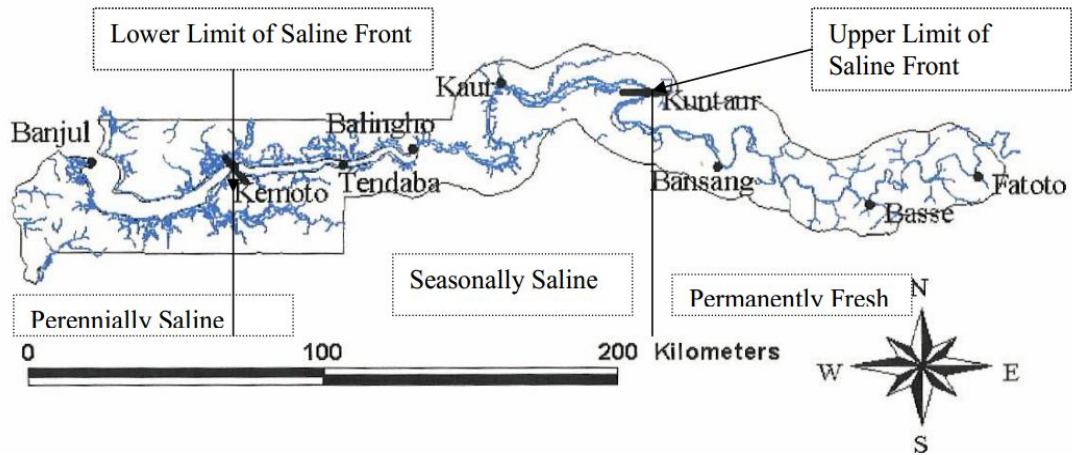


**-Updates of the Hydrological Situation on the saline front and the water level fluctuation**



The map shows the hydrological stations and the saline front limits

**Hydrograph of the Water Level at Balingho**

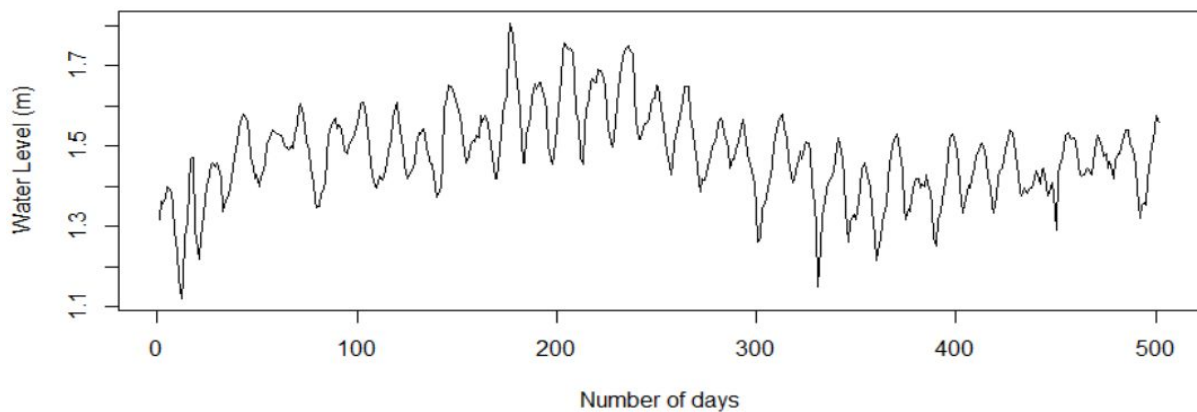


Fig 1-1; the graph shows the daily maximum water level from the **3<sup>rd</sup> February, 2015 to 23<sup>rd</sup> July, 2016**. The flow or water level for the last three months shows a normal trend. Due to the flat nature of the flood plain around this station, the flood graph could not be too high.

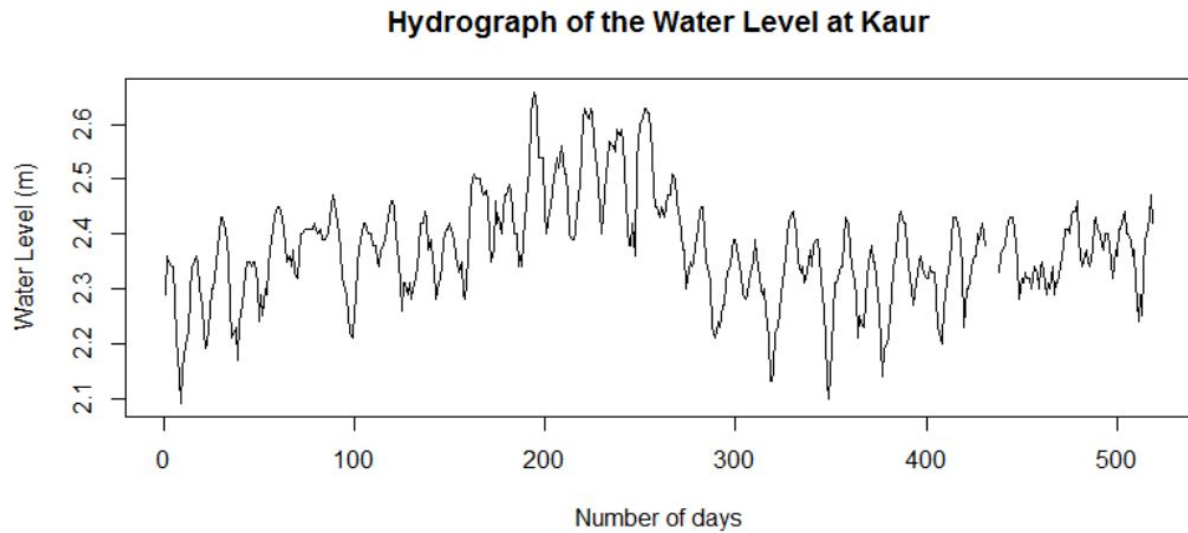


Fig 1-2; the graph shows the maximum daily water level from **20<sup>th</sup> February, 2015 to 22<sup>nd</sup> July, 2016**. Like other stations lying within the flat flood plain areas, there was a slight upward shift in the water level around day 200 period. After the decline of the flood period, normal flow has been observed.

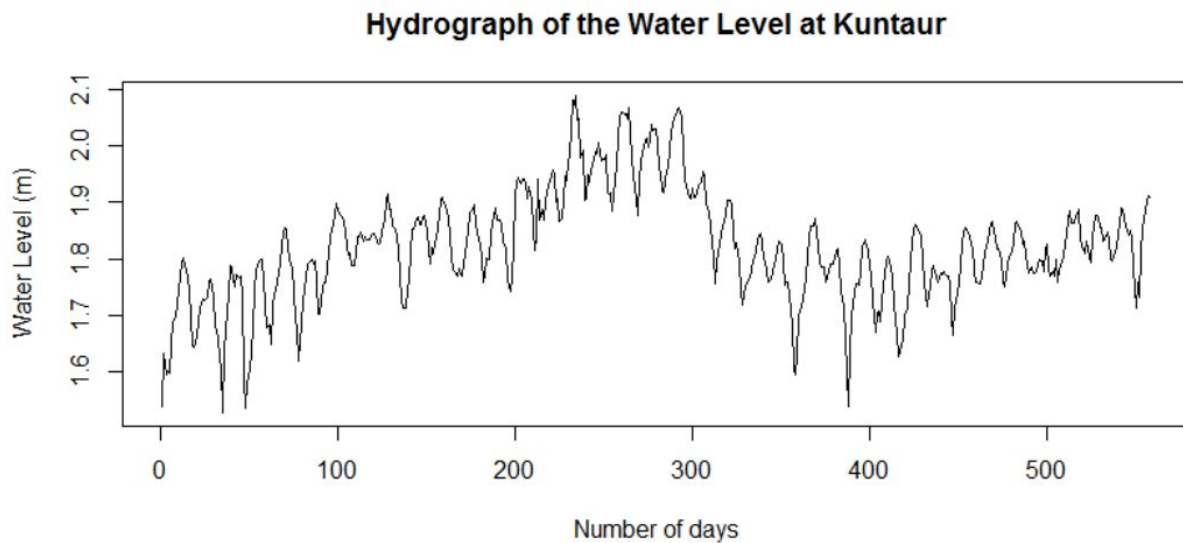


Fig 1-3; the graph shows the maximum daily water level from **12<sup>th</sup> January, 2015 to 22<sup>nd</sup> July, 2016**. Peak flood was observed from day around 200 to 350, after which the flow returned normal.

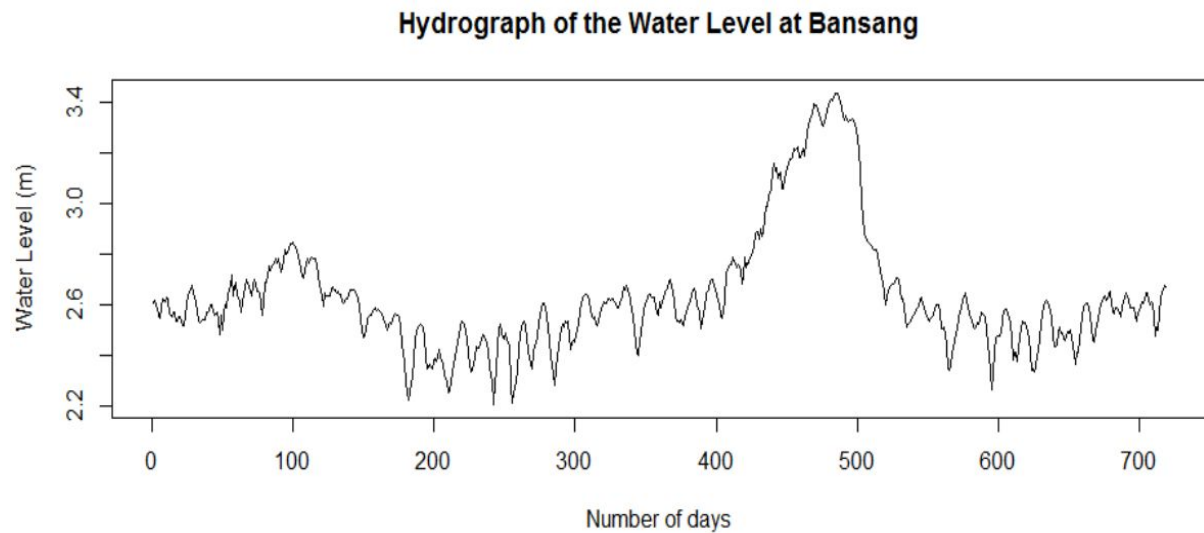


Fig1-4; the graph shows the maximum daily water level from **19<sup>th</sup> June, 2015 to 21<sup>st</sup> July, 2016**. The high peak flow on the graph was observed during the 2015 raining season due to the above normal rainfall recorded within the basin. Since the decline of the peak flood in November, normal flow has been observed.

### **Saline Front Movement**

The saline front can be located somewhere between Kaur and Kuntuar. The movement of the saline front this year can be described as slow compared to last year. This is mainly associated to the above normal rainfall observed with the basin. The maximum salinity measured at Kaur in 2015 was 14.92 practical salinity unit (PSU) compared 10.54 PSU in 2016. The early withdrawal of the saline front from Kaur has prevented the salinity reaching Kuntaur the upper limit of the saline front, where the salinity reached last year.

However, salinity is still present at Balingho on the downstream of Kaur, with a measure of about 16.17 PSU. At the same time last year, the station measured 24.30 PSU which was 8.13 units more than this year.