

# Quantification of Precipitation Extremeness over a Large Indian River Basin using Weather Extremity Indices

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## Supplementary File

Case studies of 2003, 2008, 2011, 2022 floods



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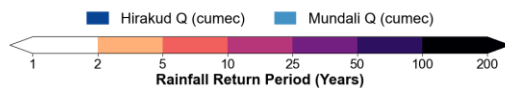
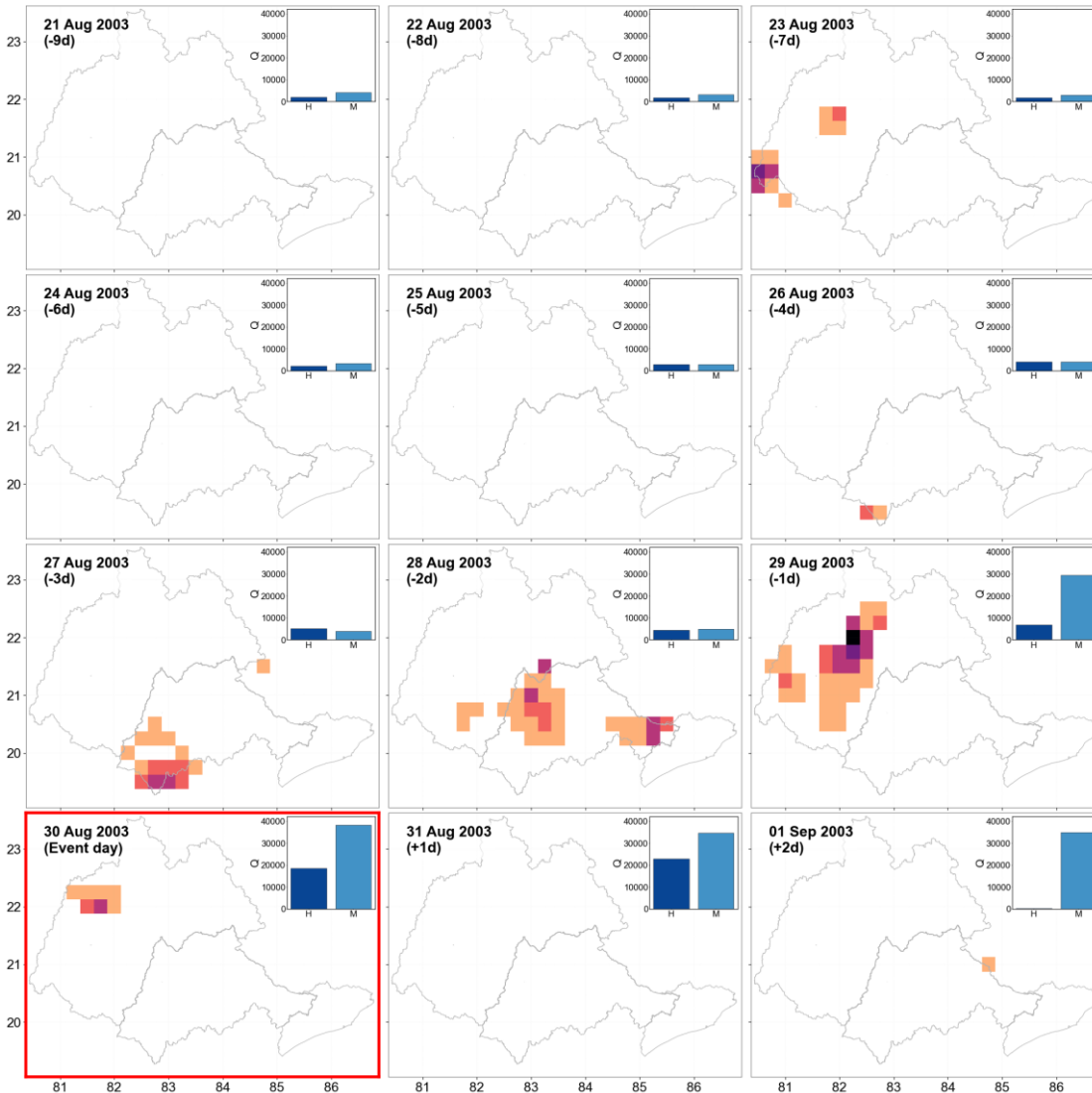


# Case Study | 2003 flood

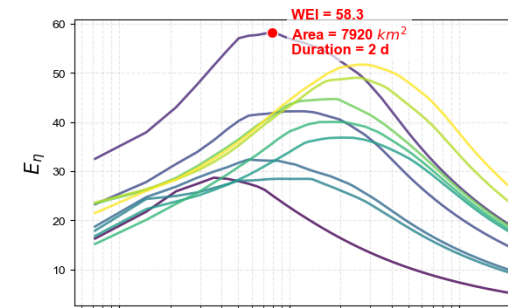
## WEI plots

## xWEI plots

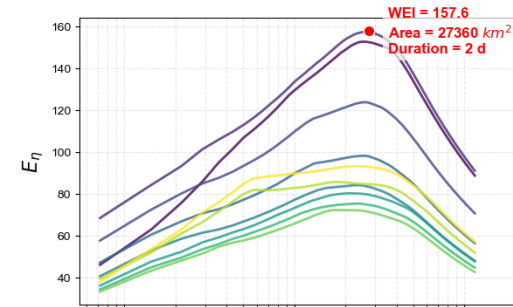
Daily Rainfall RP and Discharges at MRB: 2003-08-30



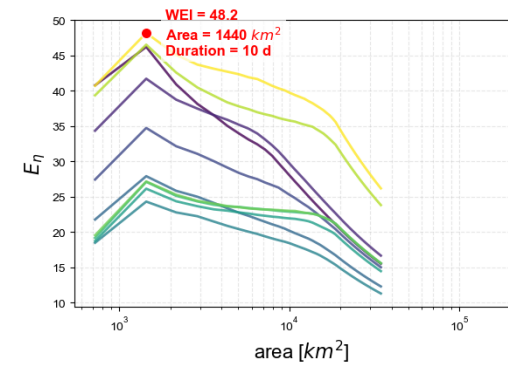
Upper Basin | 2003-08-27



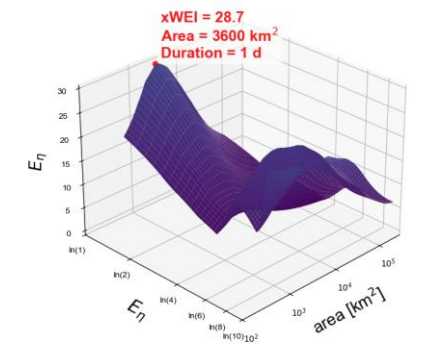
Middle Basin | 2003-08-28



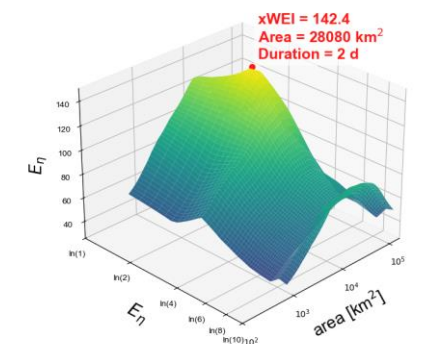
Lower Basin | 2003-08-30



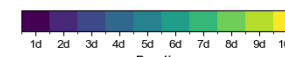
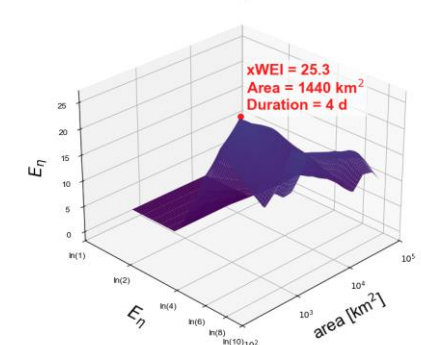
Upper Basin | 2003-08-27



Middle Basin | 2003-08-28

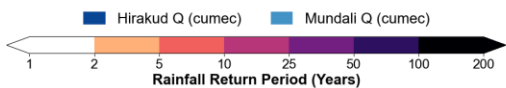
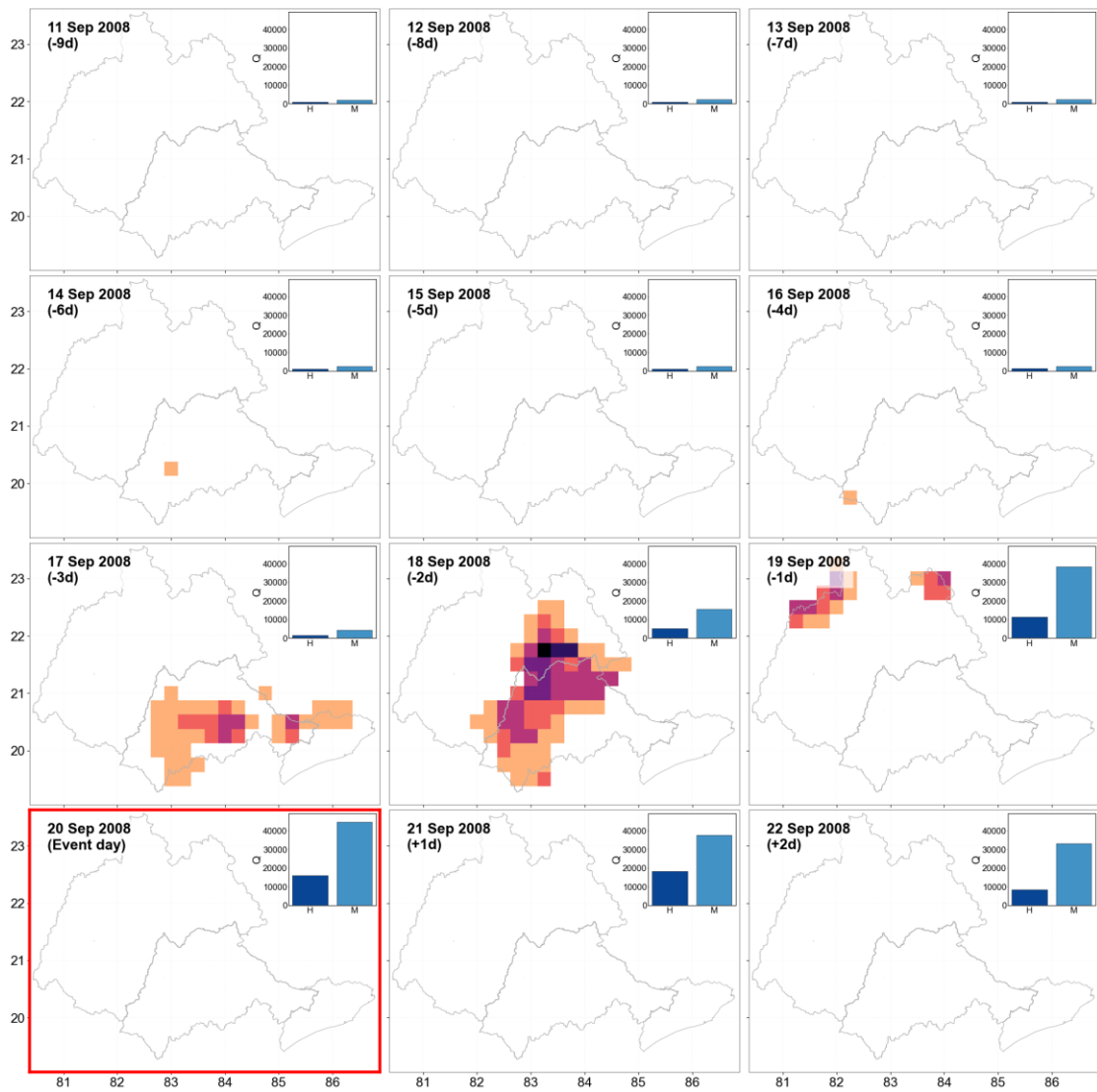


Lower Basin | 2003-08-30



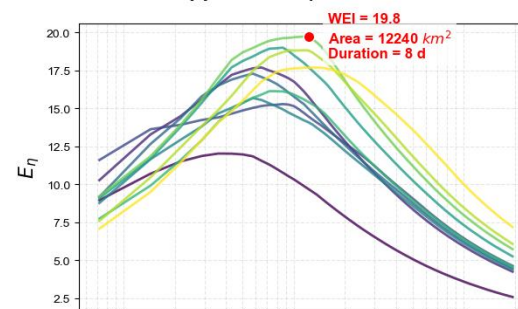
# Case Study | 2008 flood

Daily Rainfall RP and Discharges at MRB: 2008-09-20

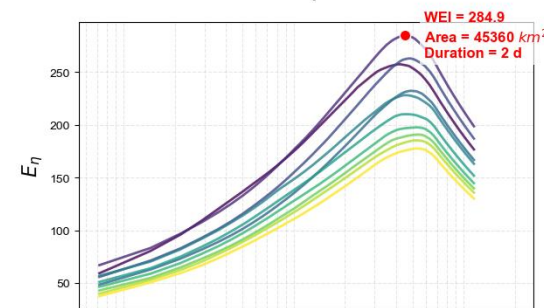


## WEI plots

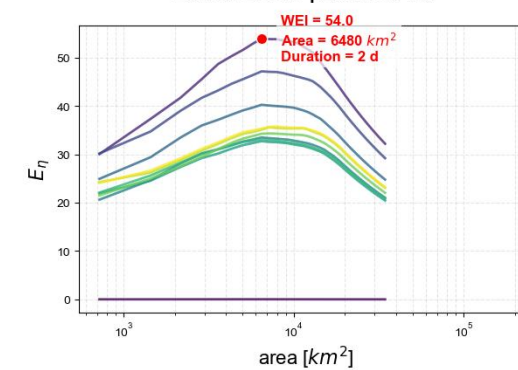
Upper Basin | 2008-09-17



Middle Basin | 2008-09-18

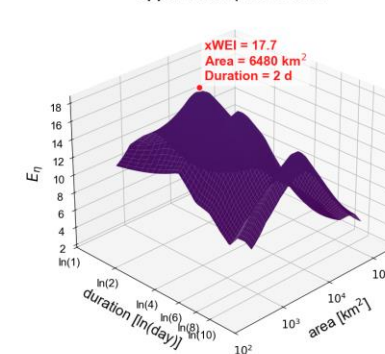


Lower Basin | 2008-09-20

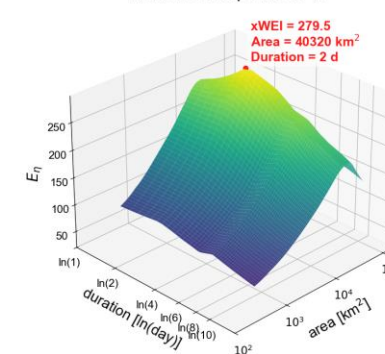


## xWEI plots

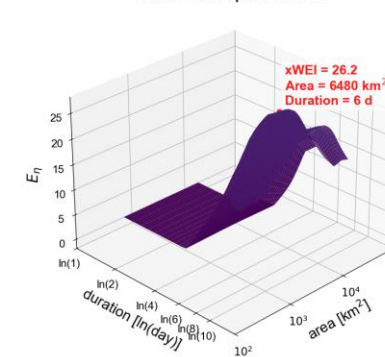
Upper Basin | 2008-09-17



Middle Basin | 2008-09-18

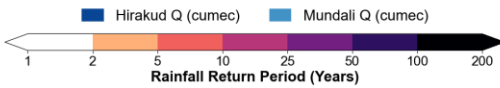
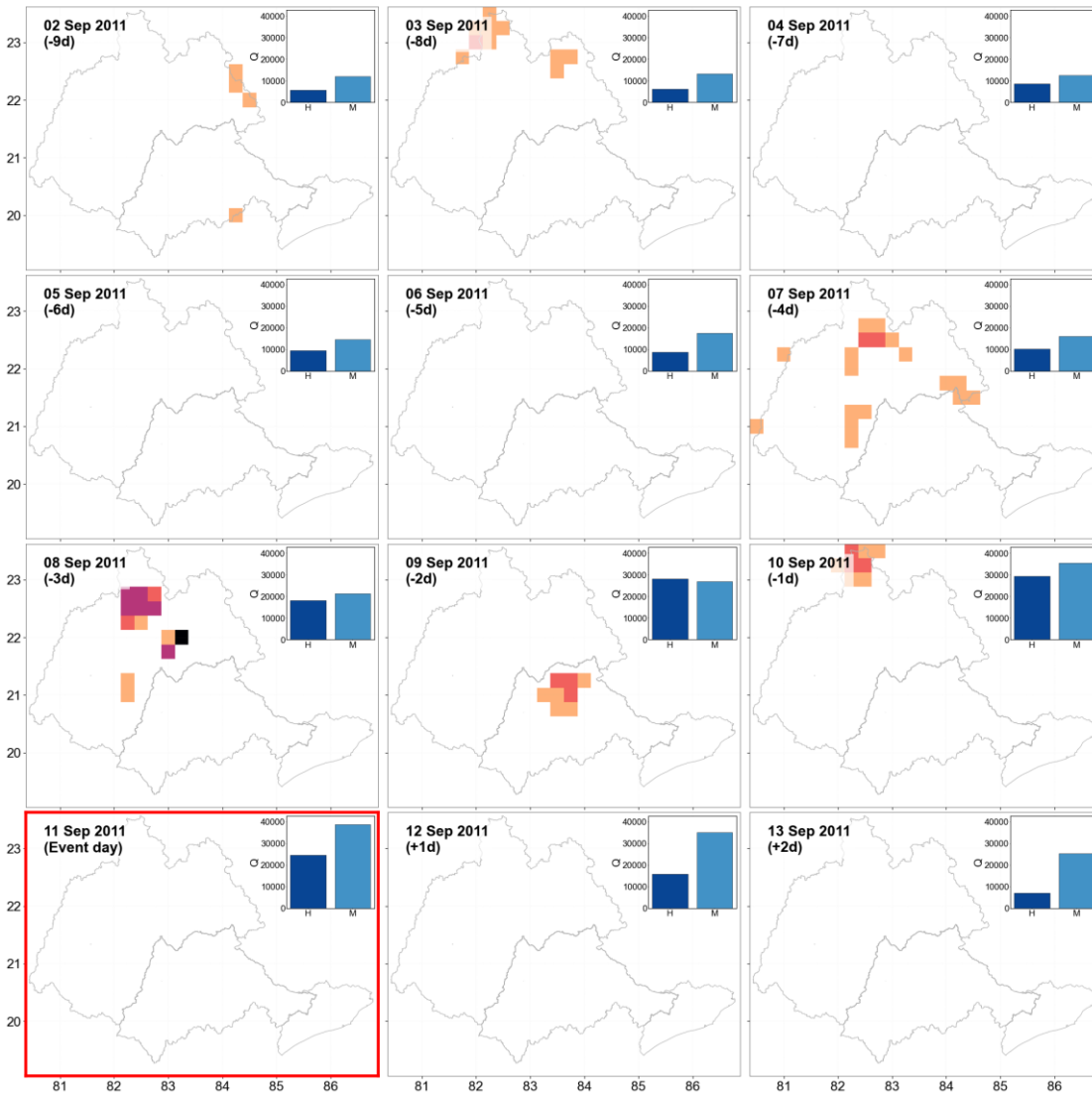


Lower Basin | 2008-09-20



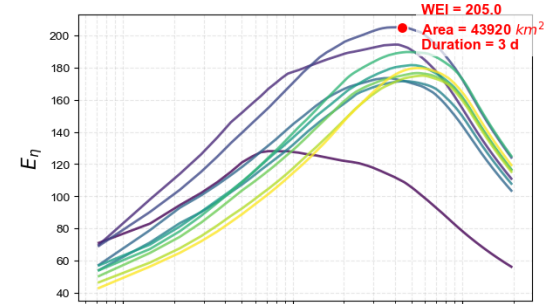
# Case Study | 2011 flood

Daily Rainfall RP and Discharges at MRB: 2011-09-11

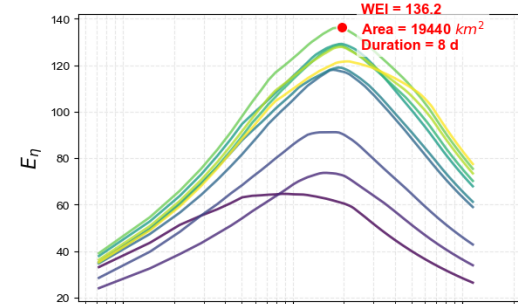


## WEI plots

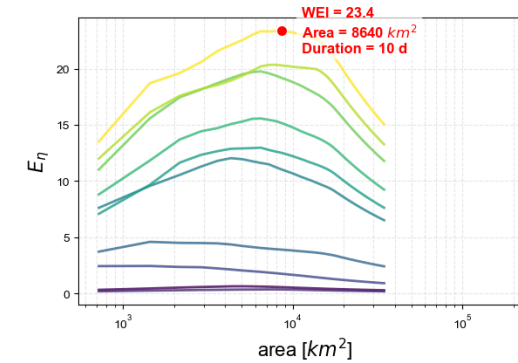
Upper Basin | 2011-09-08



Middle Basin | 2011-09-09

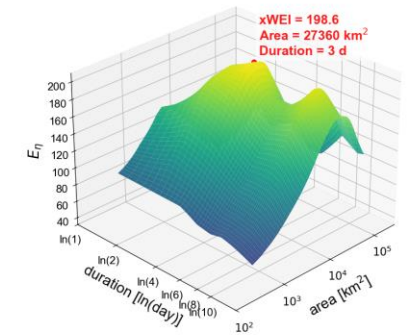


Lower Basin | 2011-09-11

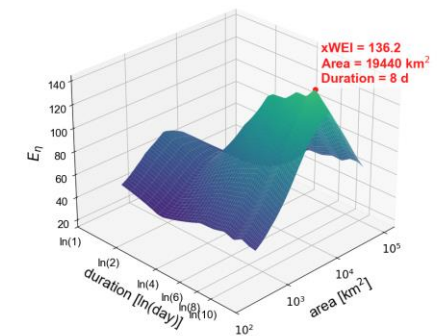


## xWEI plots

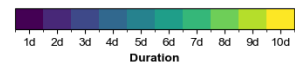
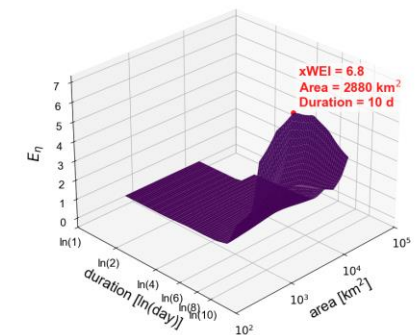
Upper Basin | 2011-09-08



Middle Basin | 2011-09-09

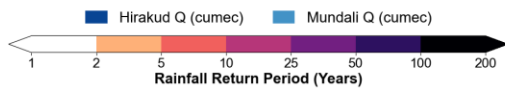
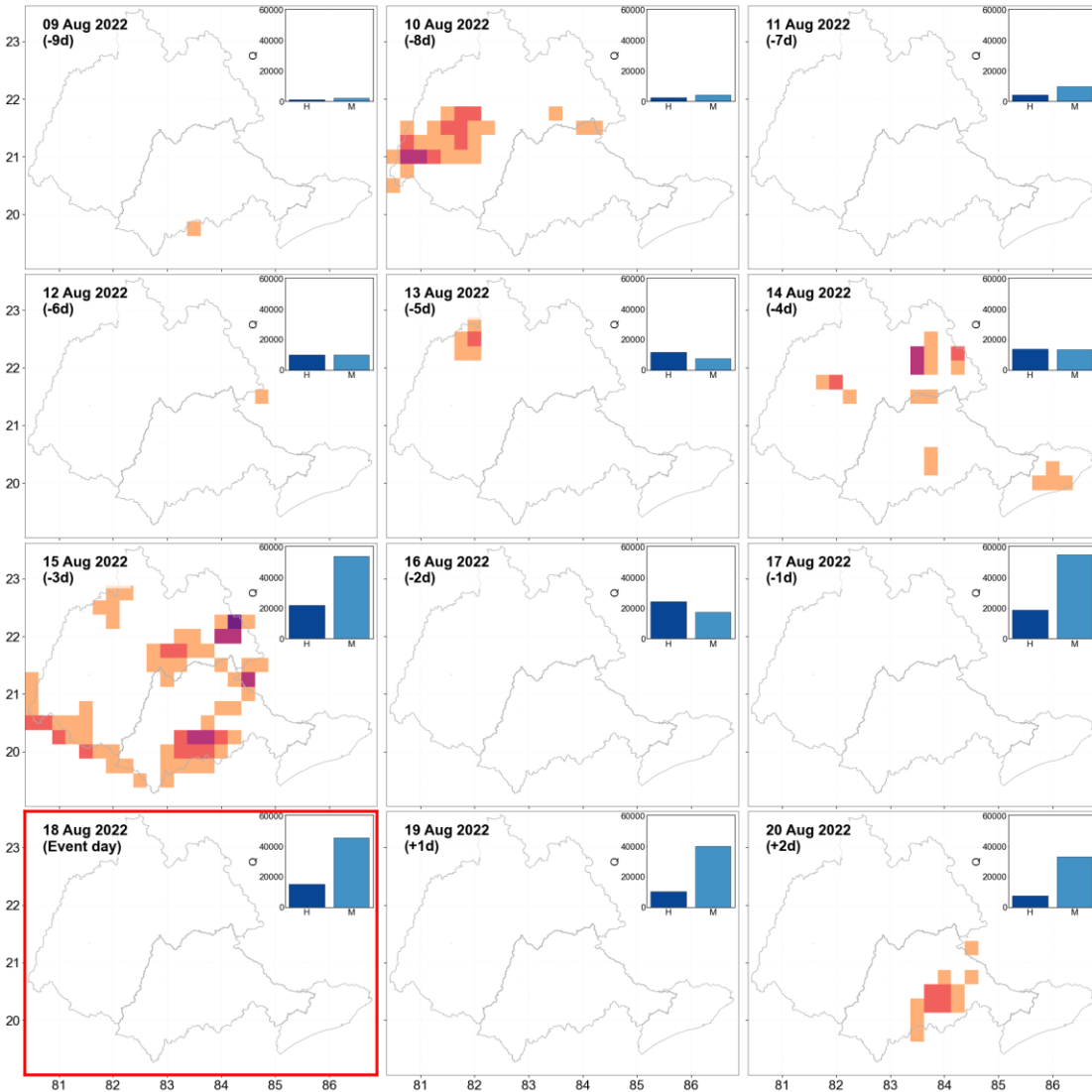


Lower Basin | 2011-09-11



# Case Study | 2022 flood

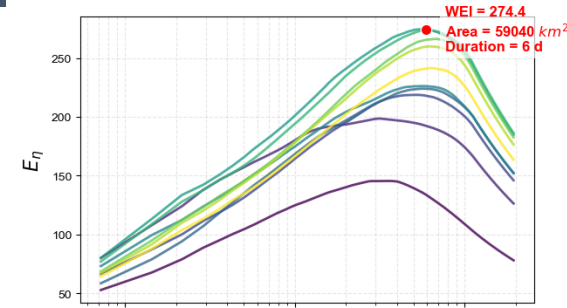
Daily Rainfall RP and Discharges at MRB: 2022-08-18



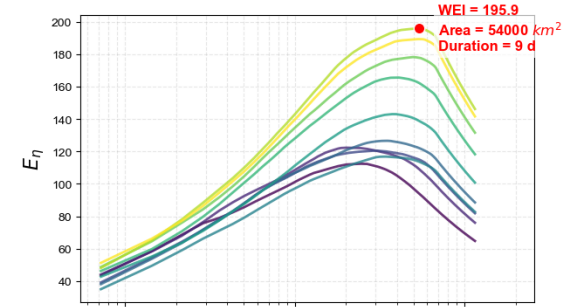
Hiraqul Q (cumec) Mundali Q (cumec)

## WEI plots

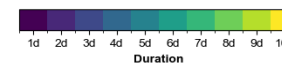
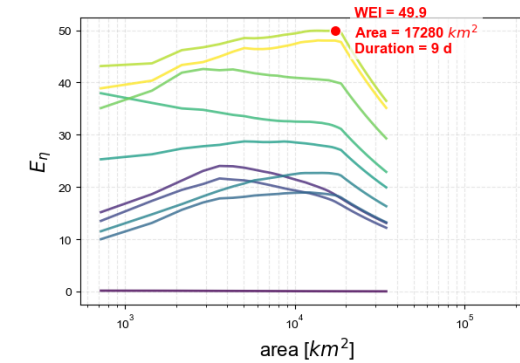
Upper Basin | 2022-08-15



Middle Basin | 2022-08-16

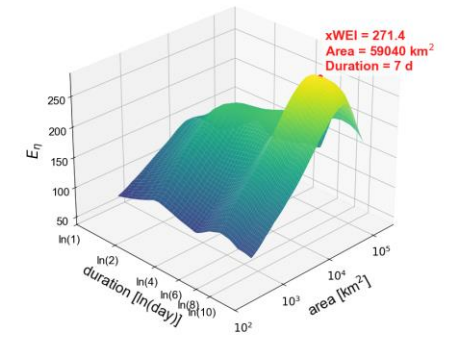


Lower Basin | 2022-08-18

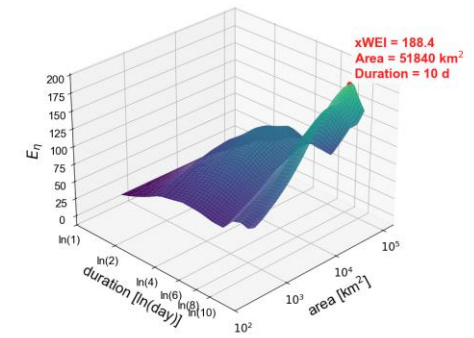


## xWEI plots

Upper Basin | 2022-08-15



Middle Basin | 2022-08-16



Lower Basin | 2022-08-18

