

Groundwater Hydrology, Exercise 2: Baseflow Separation

Report due: June 20, 9:00

1. Selection of the filter coefficient and calculation of baseflow index (3pt)

- (a) Plot total flow and baseflows for 2009.
- (b) Select an appropriate value of β and briefly explain the reason.
- (c) Calculate the baseflow index (BFI) for 2009.

2. Baseflow index for 2010 and 2011 (6pt)

- (a) Plot the graphs for 2010 and 2011.
- (b) Use the same value of β you selected above, and calculate the BFI for 2010 and 2011.
- (c) Comment on the differences and similarity of BFI among the three years. If there is a difference, speculate on possible causes of the difference.