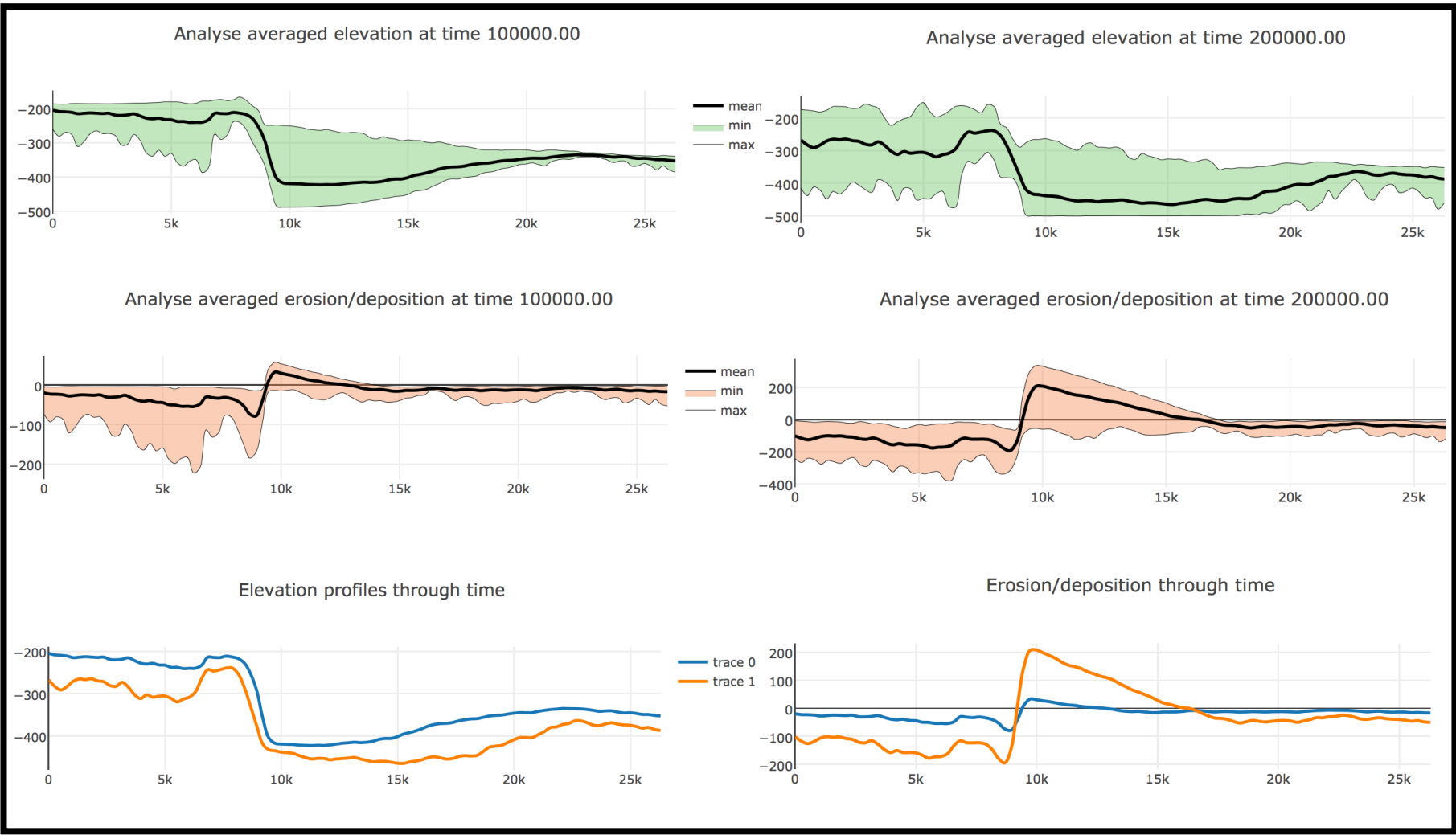
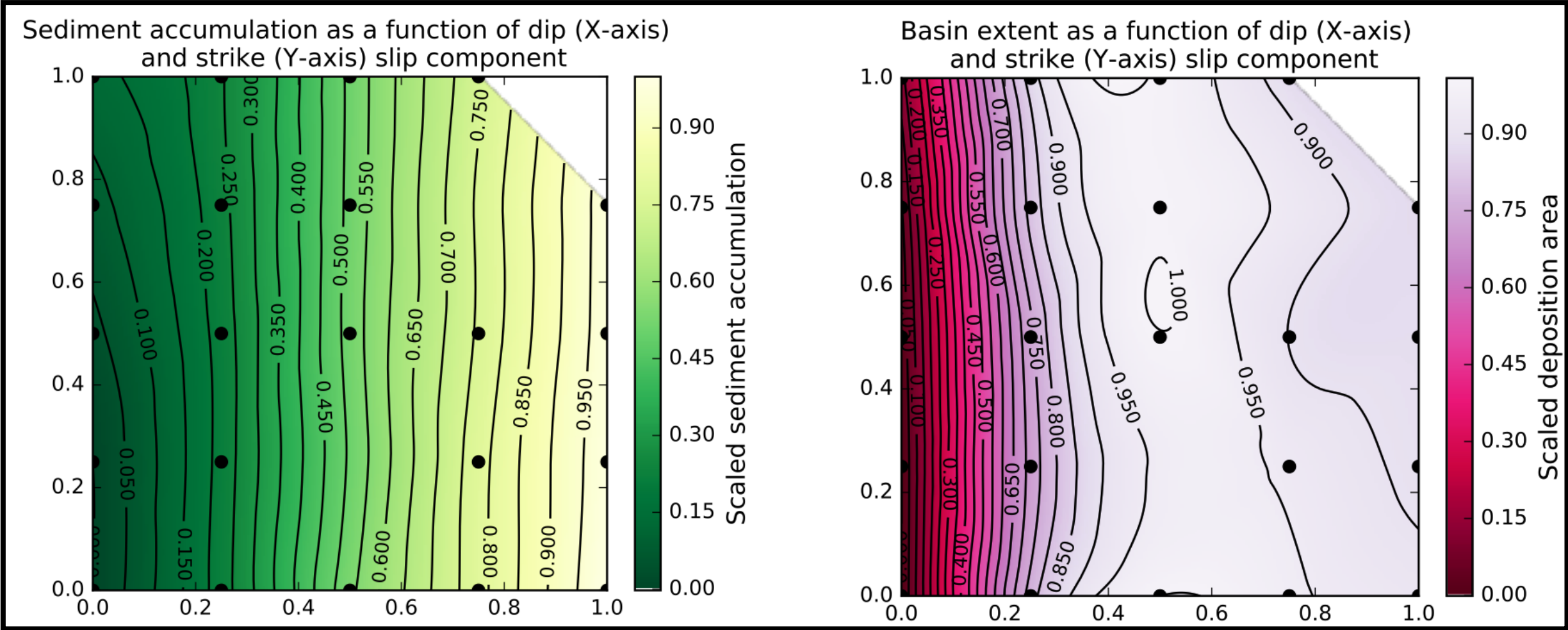


# Analysis of basins evolution

BasinAnalyse.ipynb



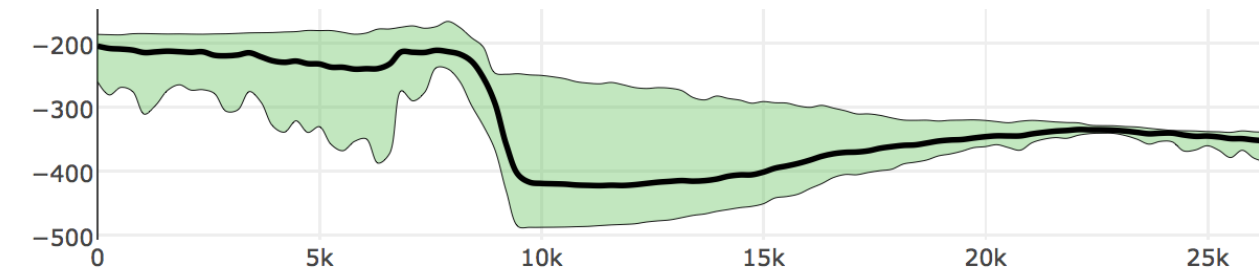
per basin cross-section plots



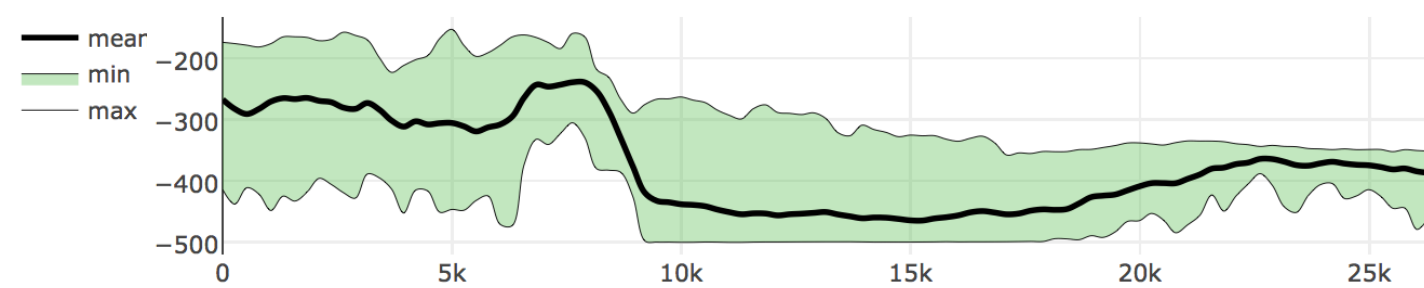
all models map distribution

# Basin cross-section example

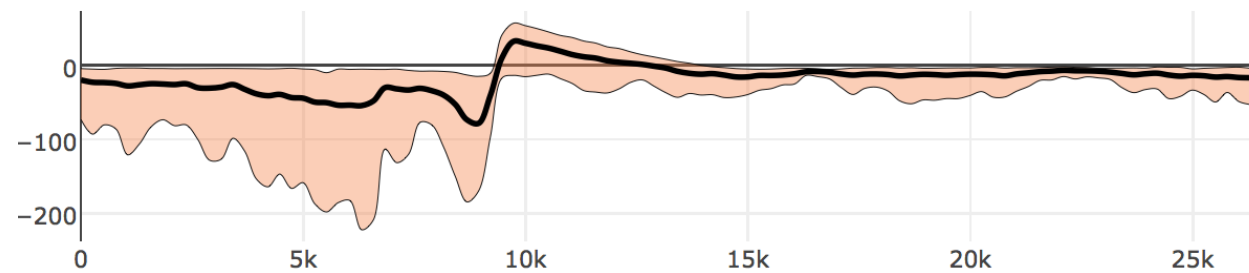
Analyse averaged elevation at time 100000.00



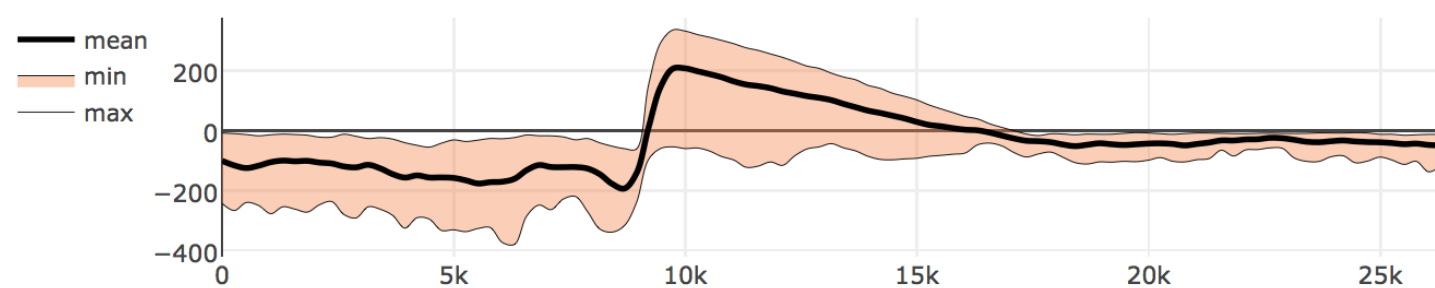
Analyse averaged elevation at time 200000.00



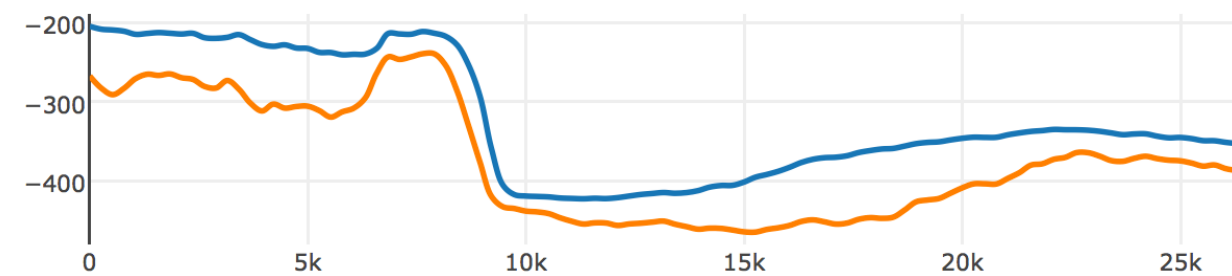
Analyse averaged erosion/deposition at time 100000.00



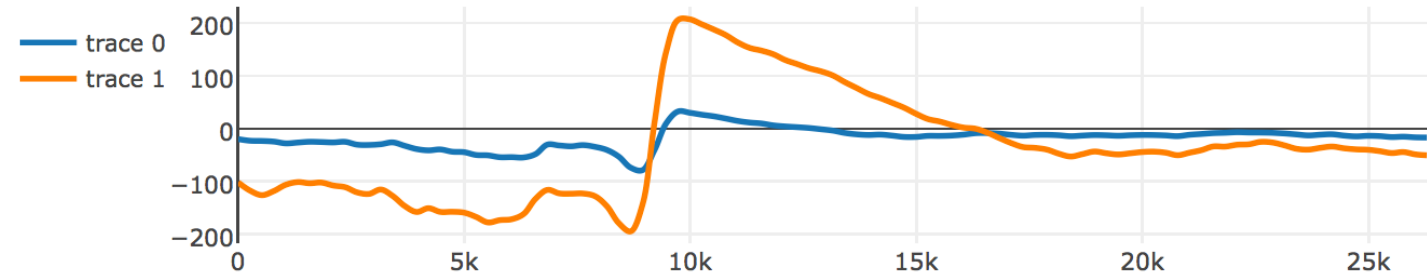
Analyse averaged erosion/deposition at time 200000.00



Elevation profiles through time



Erosion/deposition through time

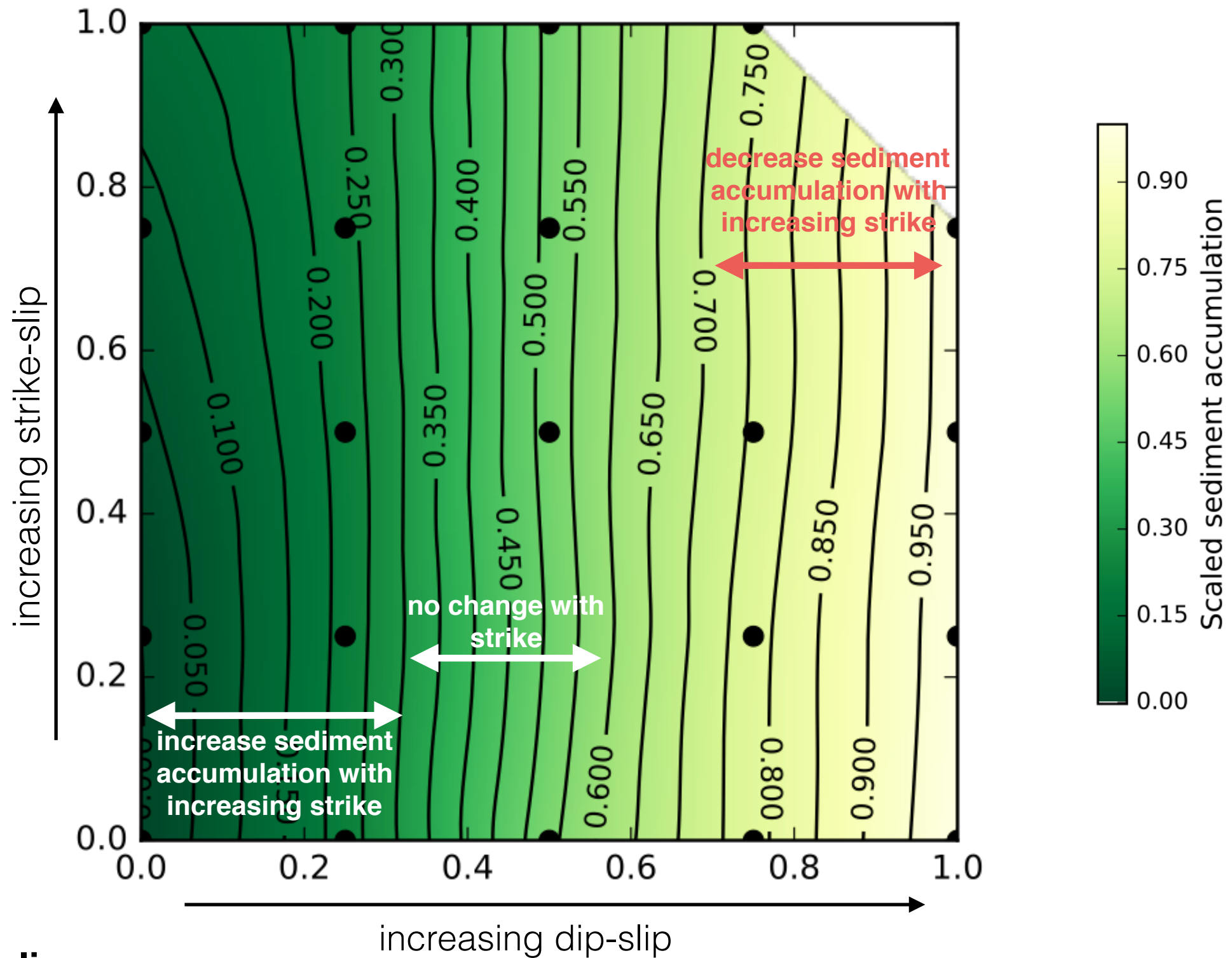


- Can be done through time for each model if required... using the notebook

# Analyse of sediment accumulation

## increasing strike-slip :

- increasing accumulation for low dip  $< 0.2$
- does not change accumulation for medium dip  $[0.2, 0.7]$
- slightly decreasing accumulation for high dip  $> 0.7$



## increasing dip-slip :

- increasing accumulation in any cases
- with a strike slip  $> 0.4$  rate of increase is high for dip  $< 0.2$
- with a strike slip  $> 0.4$  rate of increase is lower for dip  $> 0.7$

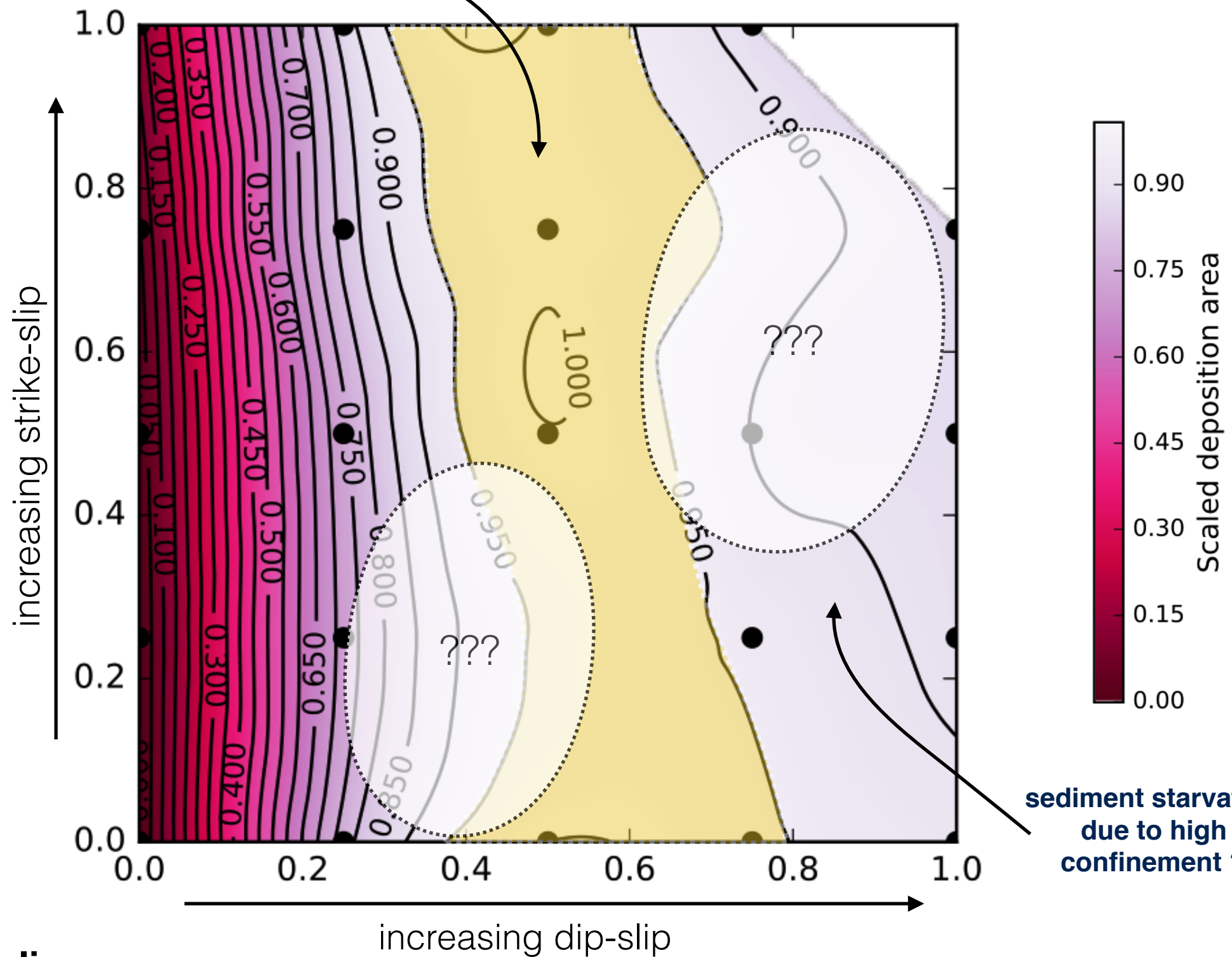
# Analysis of basin area

will be nice to see the effect of connected basins vs the others

zone of maximum basin area

## increasing strike-slip :

- area stable with increasing strike slip for small dip  $< 0.3$
- increasing area for strike  $> 0.4$
- decreasing area for strike  $< 0.4$  and dip in  $[0.4, 0.6]$



sediment starvation due to high confinement ?

## increasing dip-slip :

- increasing basin area up for dip  $< 0.4$  with a rate of increase higher for dip  $< 0.3$
- stay relatively the same for dip range  $[0.4, 0.7]$
- slight decrease for higher dip