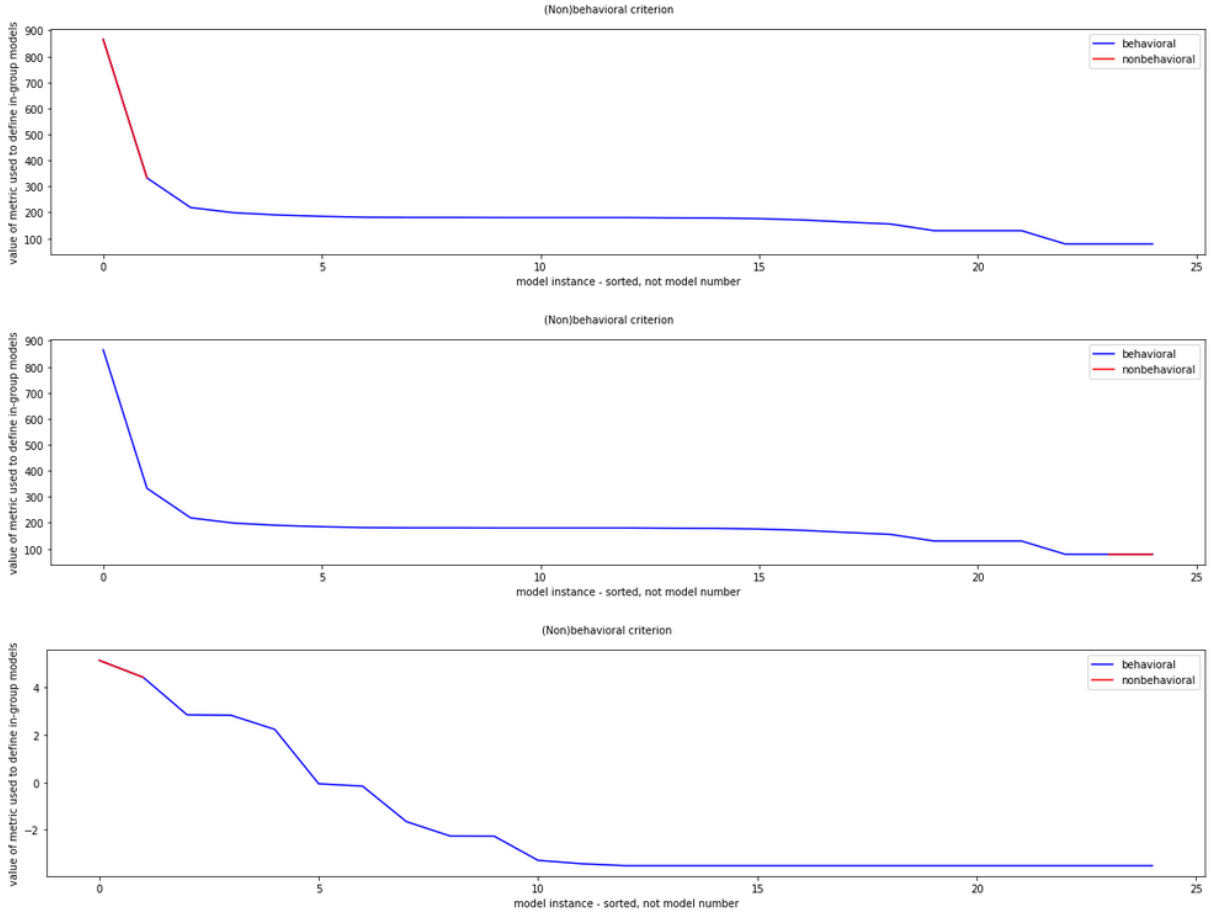
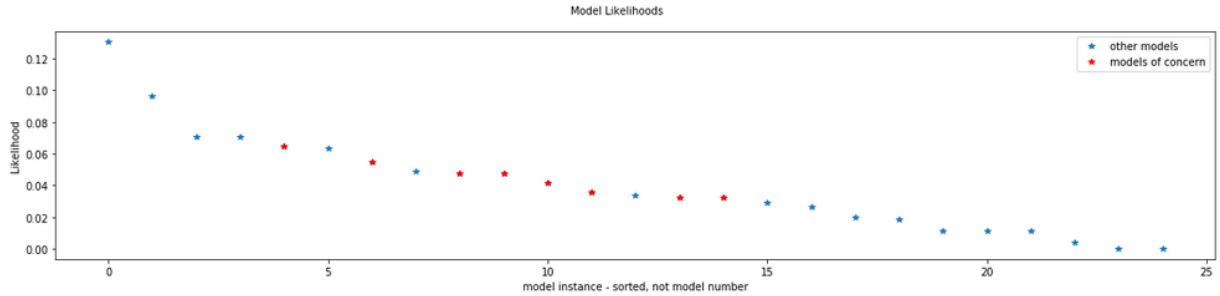
```
There were  2 non-behavioral models.

Non-behavioral models:
m001001331014010
m001001331204034

There were  0 low likelihood models.

Assessing prevalence of each parameter for behavioral and non-behavioral models

                                  Ky    low Kz   Sy    Rm      ETv     ETr   Kstr

Behavioral average ---------------- [ 2.086  1.869  1.608  1.782  1.739  2.304  1.869]
Behavioral deviation -------------- [ 1.176  1.392  1.436  1.14   1.389  1.457  1.423]

Non-behavioral average ------------ [ 0.5  1.5  1.   3.   2.   3.5  2.5]
Non-behavioral standard deviation - [ 0.5  1.5  0.   0.   1.   0.5  0.5]
```

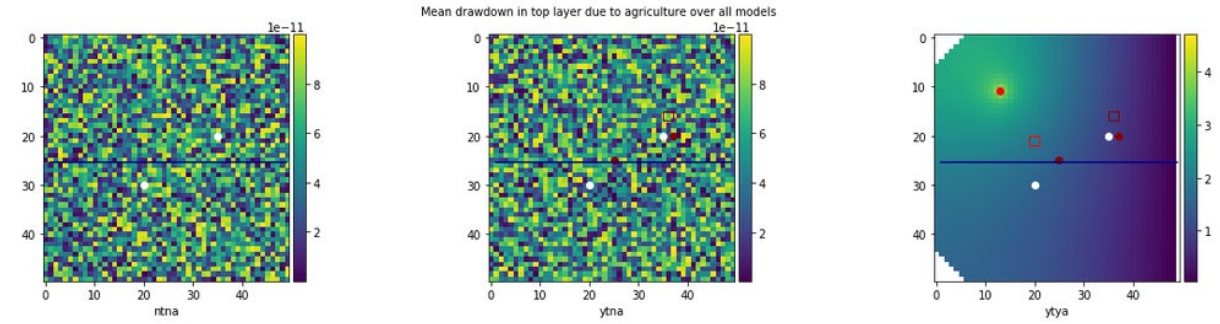


There were two non-behavioral models in the initial ensemble: each of the three metrics for behavioral models was exceeded (red lines above).

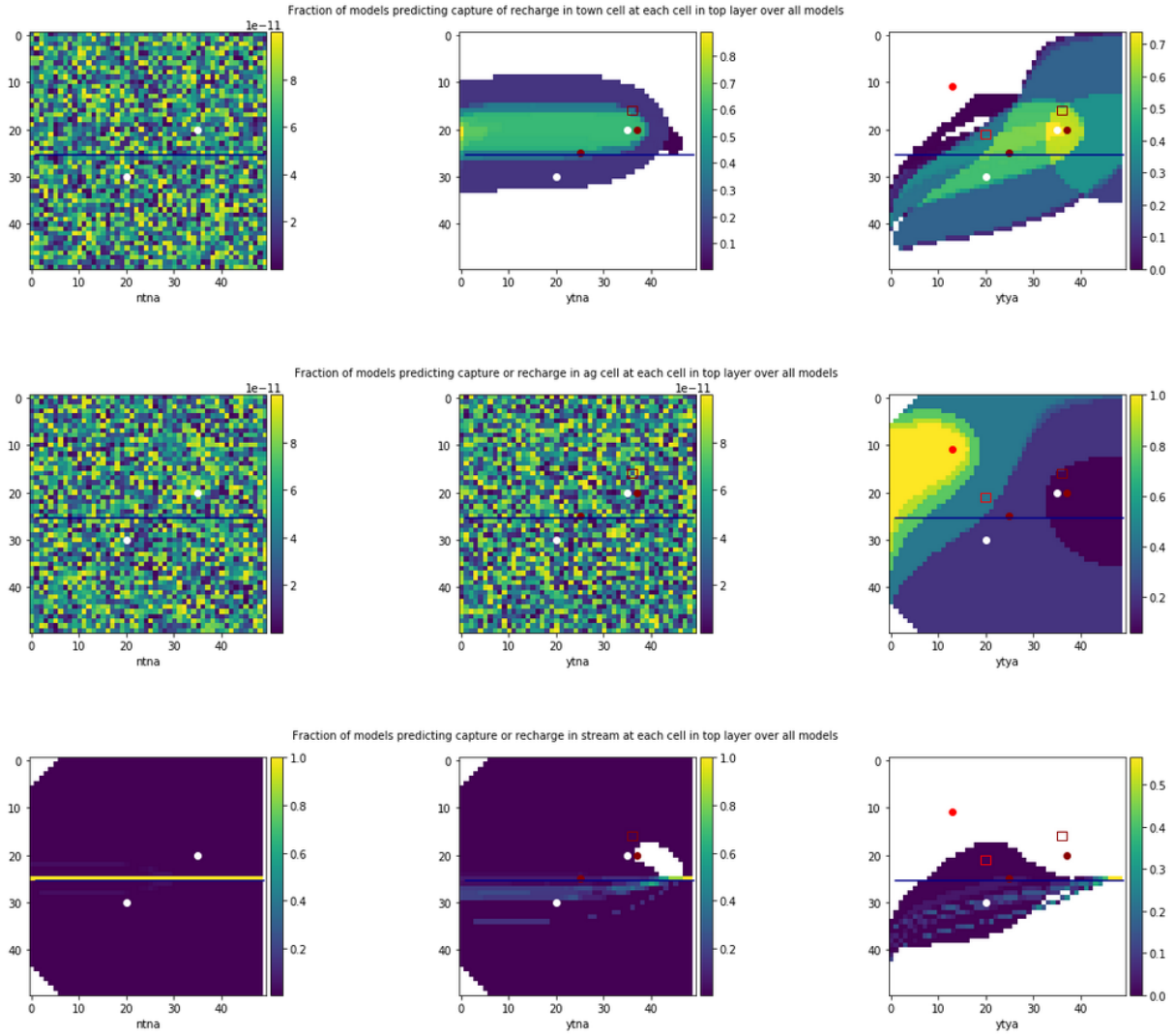



```
Models with highest likelihoods

m001001330313342  L = 0.13 other model
m001001331013133  L = 0.096 other model
m001001331014010  L = 0.07 other model
m001001331113020  L = 0.07 other model
m001001331142413  L = 0.064 model of concern
m001001331203002  L = 0.062 other model
m001001331204034  L = 0.054 model of concern
m001001331221234  L = 0.048 other model
m001001331300431  L = 0.047 model of concern
m001001331402430  L = 0.047 model of concern

The total likelihood of the models of concern is  0.357
```

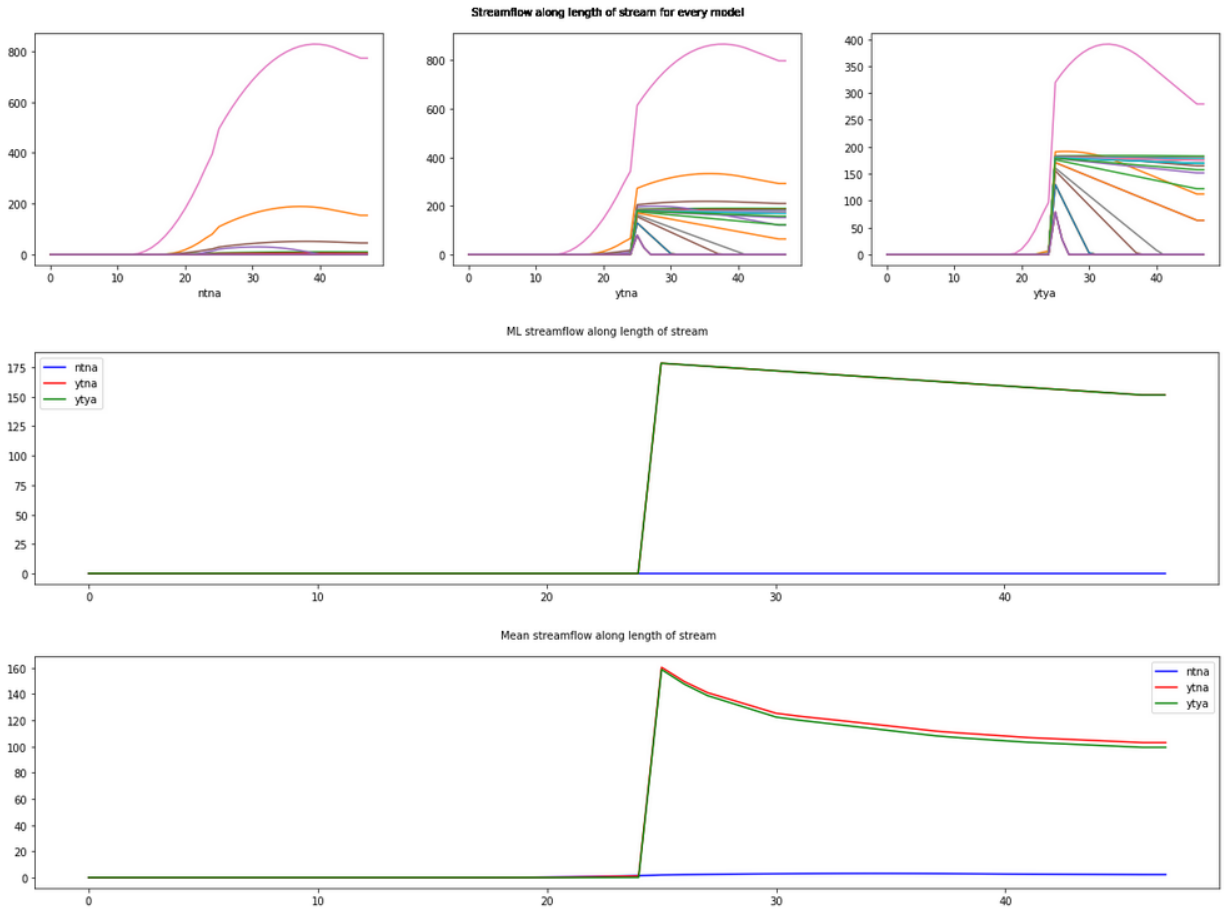
Eight of the models were MOCs. The highest likelihood MOC was m001001331142413 with a likelihood of 0.064.



The likelihood weighted drawdown shows that the effects of the ag well are largely constrained to the area around that well (top left red dot).

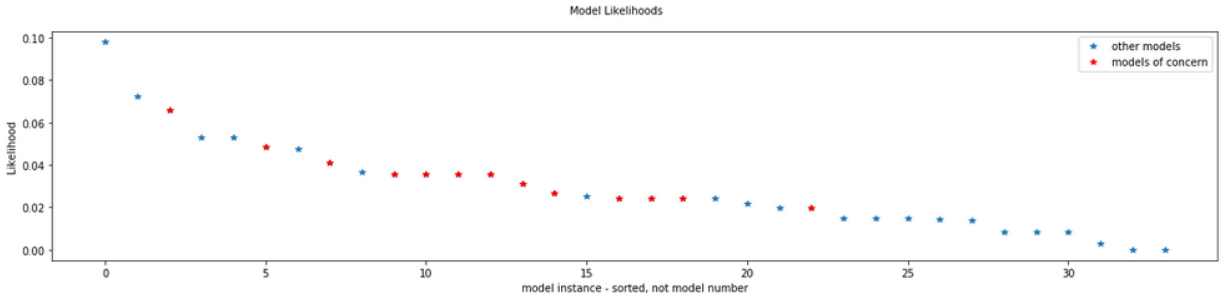


Concentrating on the YTYA period (right column), the capture zone of the town well is rather uncertain. But, there appears to be about a 40% chance that it will capture particles emanating from below the ag field (leftmost red box). The ag well's capture zone is much more certain, getting most of its water from mountain recharge areas. There is some chance that the stream will capture ag chemicals, but the probability is low.



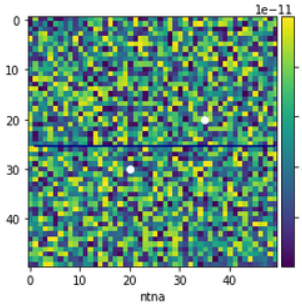
Many of the models agree on the flow at the bottom cell in the stream before and after the introduction of the ag well. The best fitting model shows no effect. The likelihood weighted predictions show considerably lower flow and a very small impact of ag pumping.

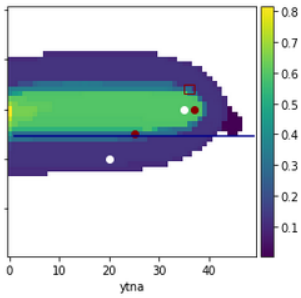
AFTER ADDING MOC-INSPIRED MODELS

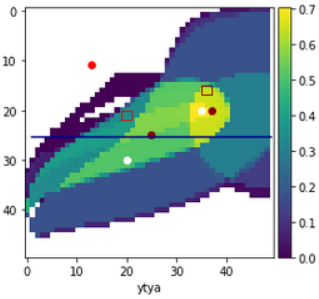



```
Models with highest likelihoods

m001001330313342  L = 0.097 other model
m001001331013133  L = 0.072 other model
m001001331014010  L = 0.065 model of concern
m001001331113020  L = 0.052 other model
m001001331142413  L = 0.052 other model
m001001331202333  L = 0.048 model of concern
m001001331203002  L = 0.047 other model
m001001331204034  L = 0.041 model of concern
m001001331221234  L = 0.036 other model
m001001331300431  L = 0.035 model of concern

The total likelihood of the models of concern is  0.449
```

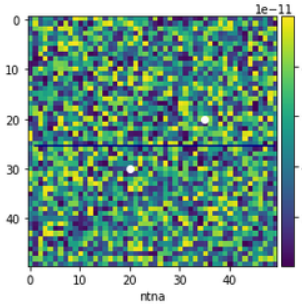
Fraction of models predicting capture of recharge in town cell at each cell in top layer over all models

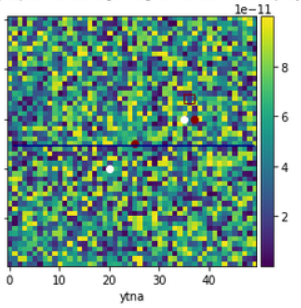


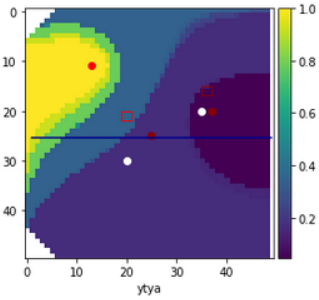




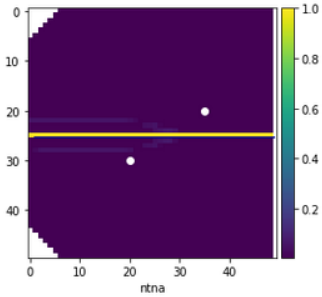
Fraction of models predicting capture or recharge in ag cell at each cell in top layer over all models

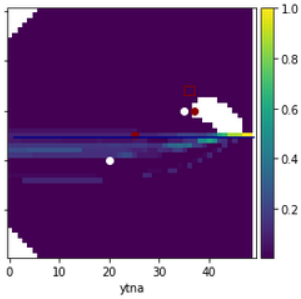


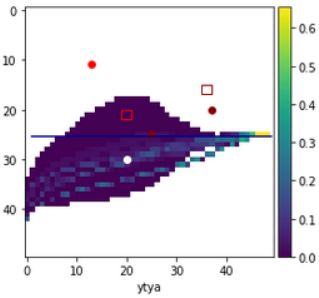


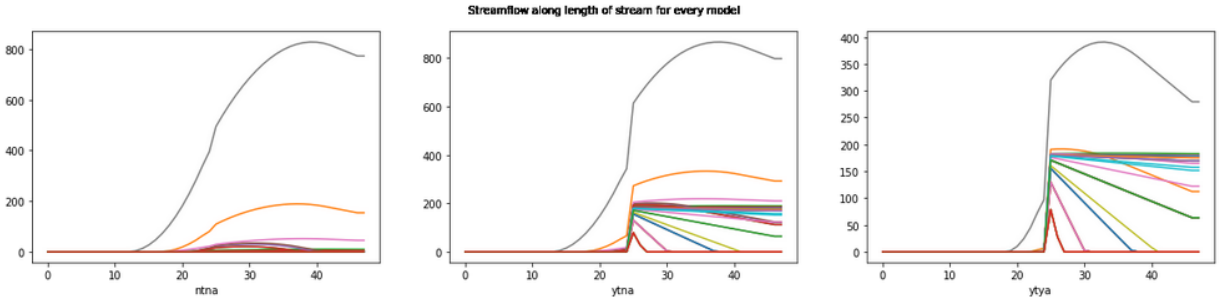


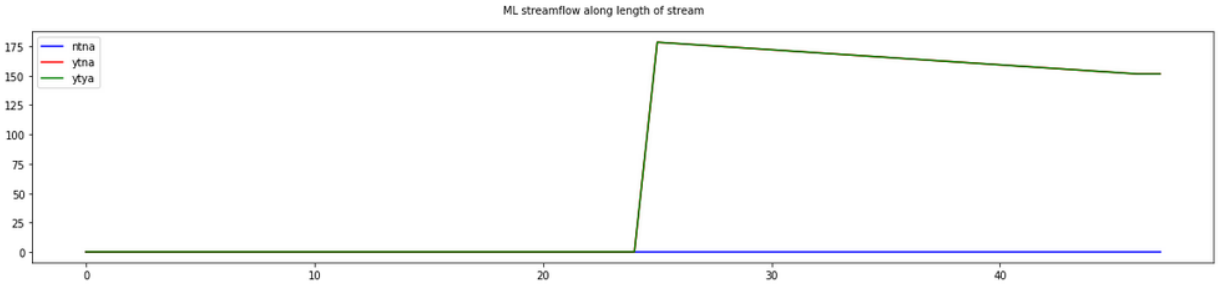
Fraction of models predicting capture or recharge in stream at each cell in top layer over all models

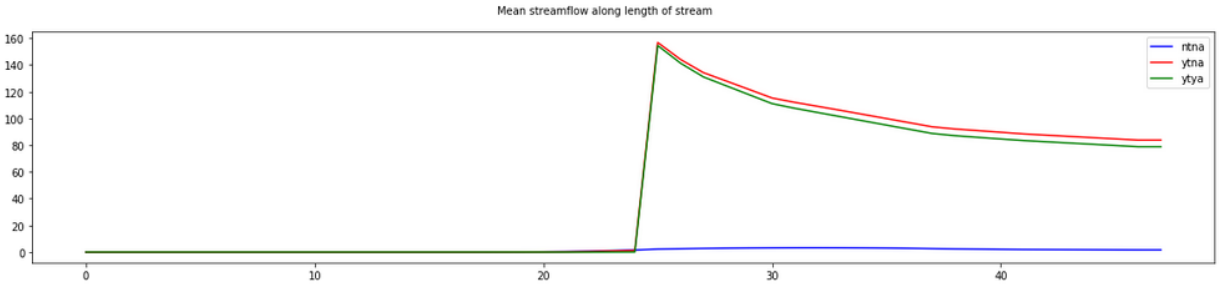







Streamflow along length of stream for every model
ntna
ytna
ytya


ML streamflow along length of stream
ntna
ytna
ytya


Mean streamflow along length of stream
ntna
ytna
ytya