

General Information

| | | | |
|----------------|------------------|-----------------------------------|--------------|
| River Name | Tove | Catchment Area (km ²) | 138 |
| Station Name | Cappenham Bridge | SAAR (mm) 61-90 | 661 |
| Station Number | 33018 | Mean Annual Rain (mm) 62-91 | 673 |
| Grid Reference | SP714488 | Mean Annual PE (mm) 62-91 | 596 |
| EA Region | EA-A | Observed flow record | 1962 to 2005 |



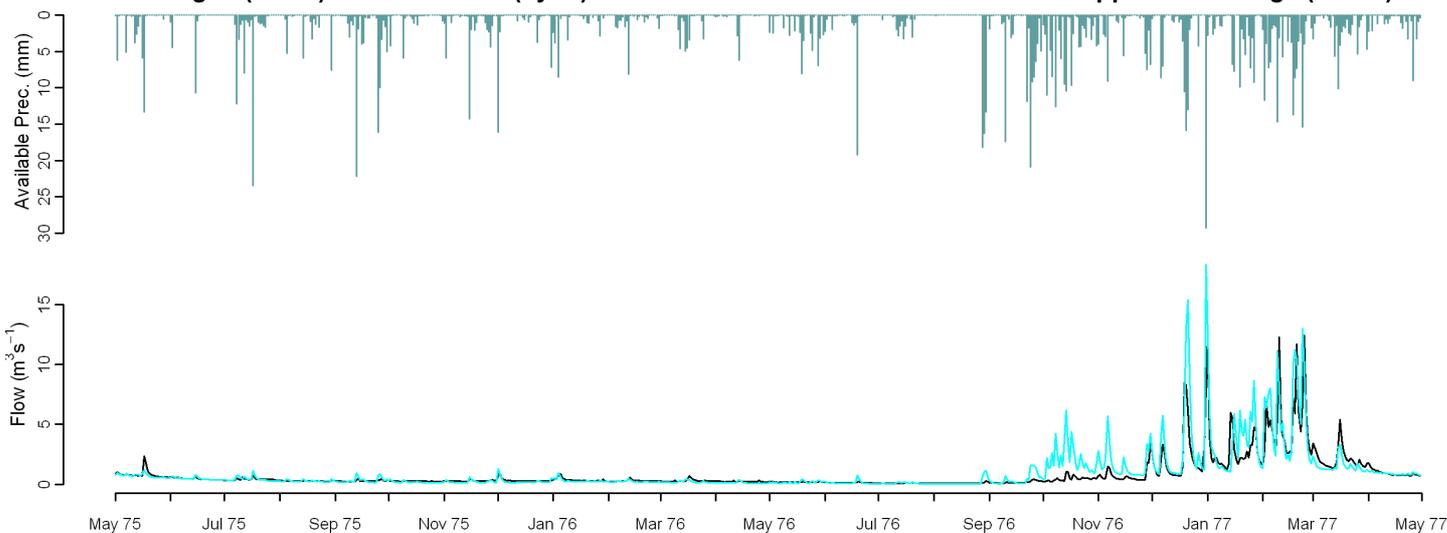
Observed Data

Comparison of gauged and simulated flow

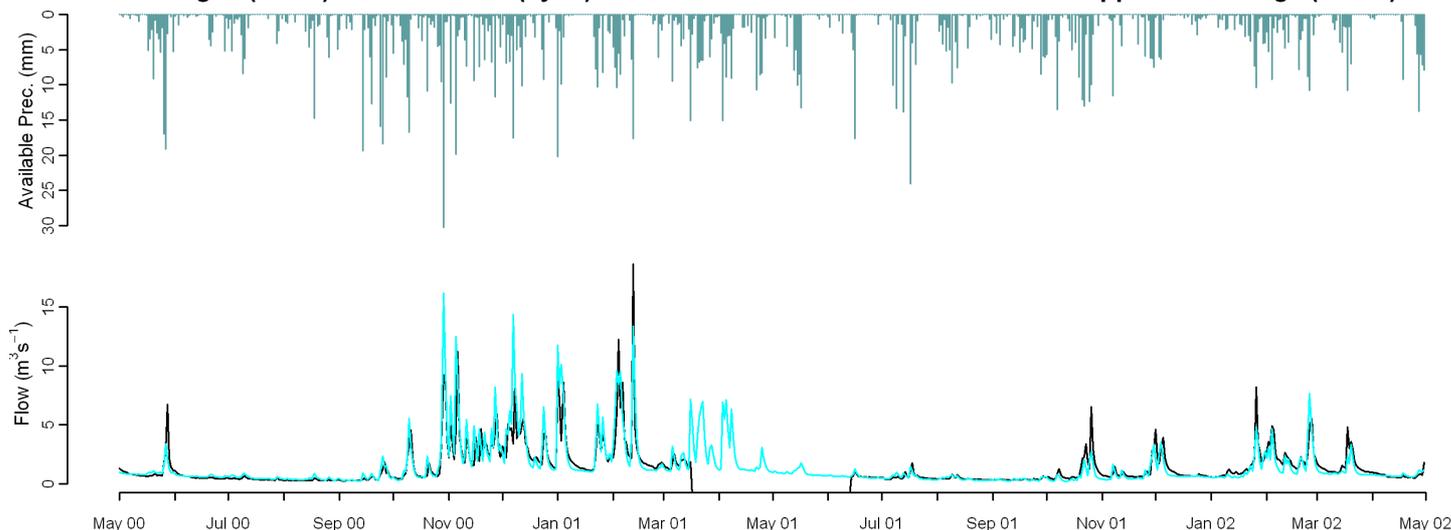
Model used: CERF

| | Mean Annual | J | F | M | A | M | J | J | A | S | O | N | D | Nash Sutcliffe |
|--------------------|-------------|------|------|-------|-------|-------|------|------|-----|------|------|-------|------|----------------|
| MORECS (1971-2005) | -4.0 | 1.6 | -4.3 | -14.9 | -15.5 | -11.9 | -7.6 | 10.0 | 7.3 | 4.3 | -2.9 | -0.7 | 0.0 | 0.68 |
| Performance Band | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 1 |
| MORECS (1962-1991) | -7.5 | -2.6 | -3.2 | -14.8 | -19.7 | -16.4 | -4.8 | 4.8 | 9.2 | 2.7 | -9.0 | -10.2 | -5.8 | 0.66 |
| | Q90 | Q75 | Q50 | Q25 | Q5 | RP2 | | RP5 | | RP10 | | RP20 | | |
| MORECS (1971-2005) | -13.0 | 5.4 | 3.4 | -19.5 | 4.3 | | | | | | | | | |
| Performance Band | 1 | 1 | 2 | 1 | 1 | | | | | | | | | |
| MORECS (1962-1991) | -7.9 | 9.6 | 4.4 | -21.0 | -2.0 | | | | | | | | | |

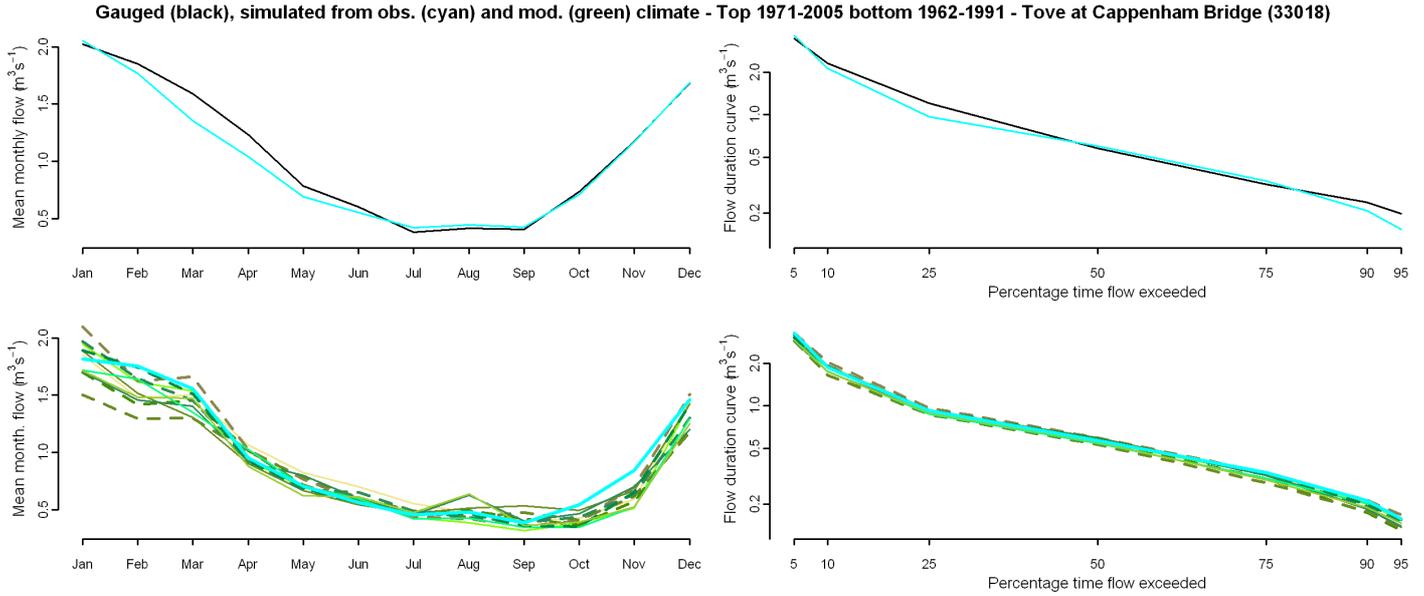
Gauged (black) and simulated (cyan) flows from observed climate - Tove at Cappenham Bridge (33018)



Gauged (black) and simulated (cyan) flows from observed climate - Tove at Cappenham Bridge (33018)



Comparison of gauged and simulated flow (observed and modelled climate)



Percentage difference between flow simulated from observed climate and Future Flows Climate

| | afgcx | afixa | afixc | afixh | afixi | afixj | afixk | afixl | afixm | afixo | afixq |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Annual | -4 | -10 | -1 | 2 | -5 | -12 | -7 | -3 | -9 | -4 | -10 |
| January | 8 | -12 | 7 | 15 | 5 | -17 | -11 | 10 | -2 | 3 | -7 |
| April | -1 | -2 | 17 | 11 | -5 | 3 | -2 | 2 | 9 | -3 | -4 |
| July | -3 | 5 | 24 | -2 | 1 | 8 | 4 | 10 | -5 | 0 | 5 |
| October | -28 | -32 | -20 | -15 | -16 | -22 | -12 | -19 | -33 | -34 | -30 |
| Q90 | -5 | -19 | -6 | 1 | -15 | -17 | -10 | -7 | -3 | -7 | -12 |
| Q75 | -4 | -13 | -4 | 1 | -8 | -17 | -4 | -2 | -7 | -2 | -12 |
| Q50 | -1 | -4 | 4 | 6 | 1 | -8 | 3 | 4 | -4 | 1 | -5 |
| Q25 | 1 | -6 | 3 | 6 | -2 | -7 | 0 | 1 | -5 | 1 | -5 |
| Q5 | -10 | -16 | -1 | 1 | -10 | -15 | -14 | 0 | -9 | -9 | -16 |
| RP2 | -13 | -12 | -8 | 1 | -10 | -10 | -7 | -1 | -14 | -5 | -13 |
| RP10 | -9 | -2 | 11 | 7 | 12 | 3 | 21 | 9 | -5 | 15 | 10 |

Climate change graphs for 2050s

