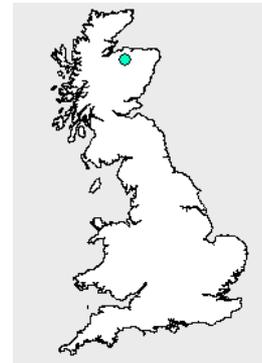


General Information

| | | | |
|----------------|-------------|-----------------------------------|--------------|
| River Name | Avon | Catchment Area (km ²) | 543 |
| Station Name | Delnashaugh | SAAR (mm) 61-90 | 1108 |
| Station Number | 8004 | Mean Annual Rain (mm) 62-91 | 1151 |
| Grid Reference | NJ186352 | Mean Annual PE (mm) 62-91 | 488 |
| EA Region | SEPA-NW | Observed flow record | 1961 to 2005 |



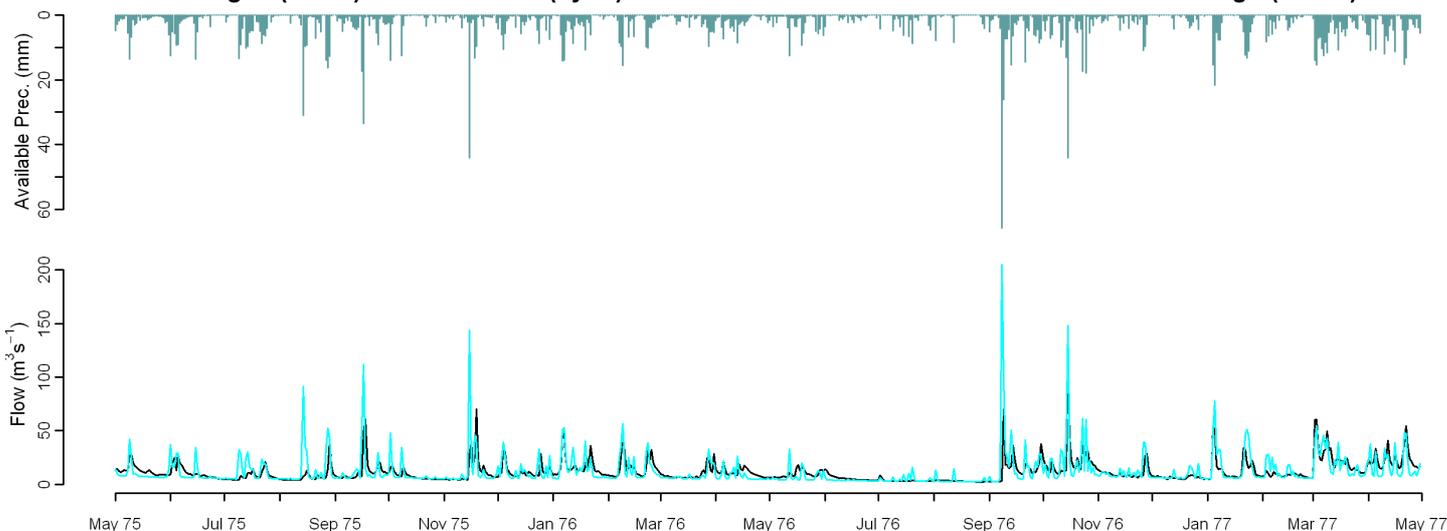
Observed Data

Comparison of gauged and simulated flow

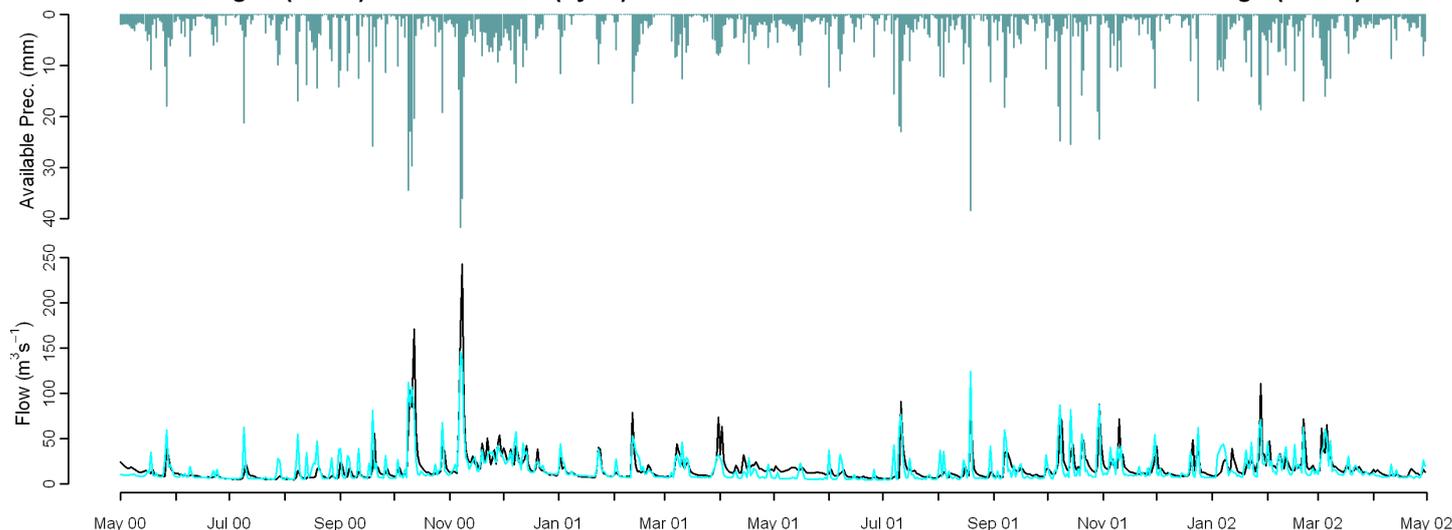
Model used: PDM

| | Mean Annual | J | F | M | A | M | J | J | A | S | O | N | D | Nash Sutcliffe |
|--------------------|-------------|-------|-------|-------|-------|-------|------|------|------|------|-----|------|------|----------------|
| MORECS (1971-2005) | -3.9 | -6.4 | -3.1 | -13.3 | -23.1 | -21.8 | -2.5 | 11.9 | 26.5 | 18.5 | 3.0 | -2.5 | -2.8 | 0.29 |
| Performance Band | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 3 |
| FAO (1962-1991) | 0.2 | -0.9 | 4.2 | -7.4 | -19.5 | -17.9 | -2.4 | 14.4 | 15.2 | 19.5 | 8.8 | 9.7 | 0.9 | 0.27 |
| | Q90 | Q75 | Q50 | Q25 | Q5 | RP2 | RP5 | RP10 | RP20 | | | | | |
| MORECS (1971-2005) | -7.1 | -17.0 | -23.8 | -5.6 | 12.9 | -5.3 | -6.0 | -4.0 | -1.0 | | | | | |
| Performance Band | 1 | 1 | 2 | 1 | 1 | | | | | | | | | |
| FAO (1962-1991) | -5.0 | -13.8 | -18.5 | -0.7 | 18.3 | 0.1 | 1.0 | 2.3 | 3.9 | | | | | |

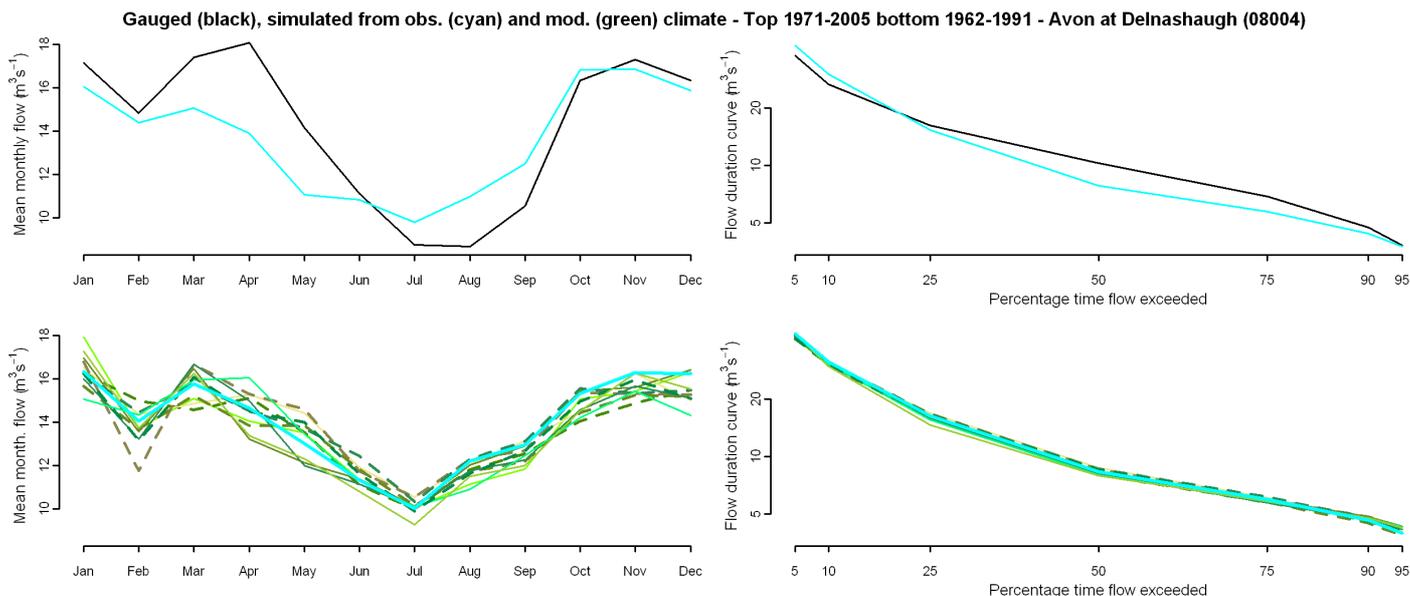
Gauged (black) and simulated (cyan) flows from observed climate - Avon at Delnashaugh (08004)



Gauged (black) and simulated (cyan) flows from observed climate - Avon at Delnashaugh (08004)



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 | -2 | -2 | 1 | 0 | -2 | -4 | -2 | 0 | -3 | -2 | -4 |
| January | 11 | 1 | 3 | 6 | 6 | 0 | -1 | -4 | -11 | 1 | 7 |
| April | -6 | 1 | 6 | 3 | -11 | -7 | 1 | 0 | 8 | 0 | -12 |
| July | -1 | -3 | 7 | 5 | 2 | -4 | 2 | 1 | 1 | -2 | -8 |
| October | -3 | -7 | -4 | 2 | -1 | -7 | -3 | -1 | -8 | -4 | -4 |
| Q90 | 2 | -2 | 2 | 4 | 3 | -4 | 1 | 0 | 2 | -2 | 3 |
| Q75 | 0 | -3 | 3 | 0 | -1 | -4 | -3 | 2 | -3 | 0 | -3 |
| Q50 | 1 | -3 | 5 | 3 | 0 | -4 | -1 | 3 | -5 | 2 | -4 |
| Q25 | -1 | -2 | 4 | 2 | -3 | -4 | -3 | 2 | -5 | -1 | -10 |
| Q5 | -5 | -2 | -4 | -3 | -4 | -3 | -2 | -1 | 0 | -5 | 0 |
| RP2 | 7 | -5 | 2 | 4 | 4 | 3 | 8 | 0 | 8 | -6 | 2 |
| RP10 | 2 | -15 | -8 | -6 | 3 | -11 | 6 | 2 | 3 | -15 | -3 |

Climate change graphs for 2050s

