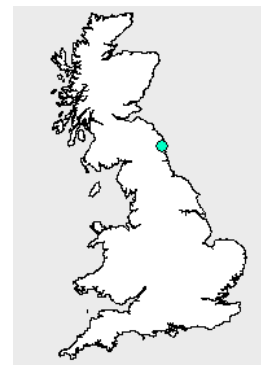


General Information

| | | | |
|----------------|----------|-----------------------------|--------------|
| River Name | Coquet | Catchment Area (km2) | 570 |
| Station Name | Morwick | SAAR (mm) 61-90 | 852 |
| Station Number | 22001 | Mean Annual Rain (mm) 62-91 | 858 |
| Grid Reference | NU234044 | Mean Annual PE (mm) 62-91 | 527 |
| EA Region | EA-NE | Observed flow record | 1963 to 2005 |



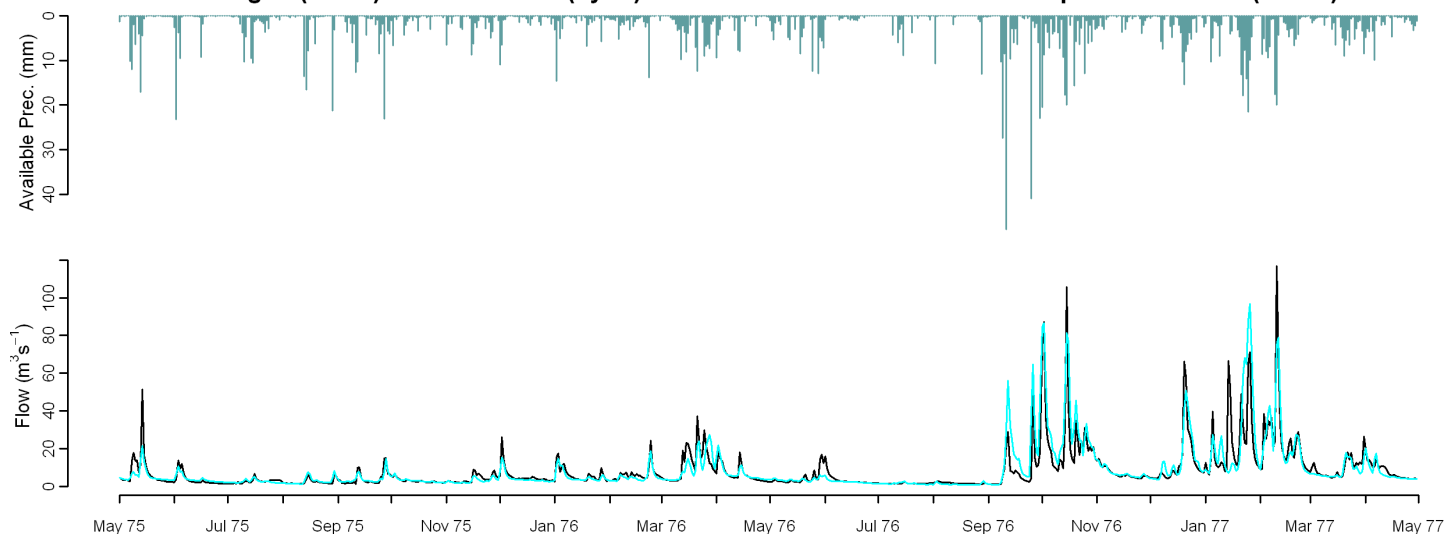
Observed Data

Comparison of gauged and simulated flow

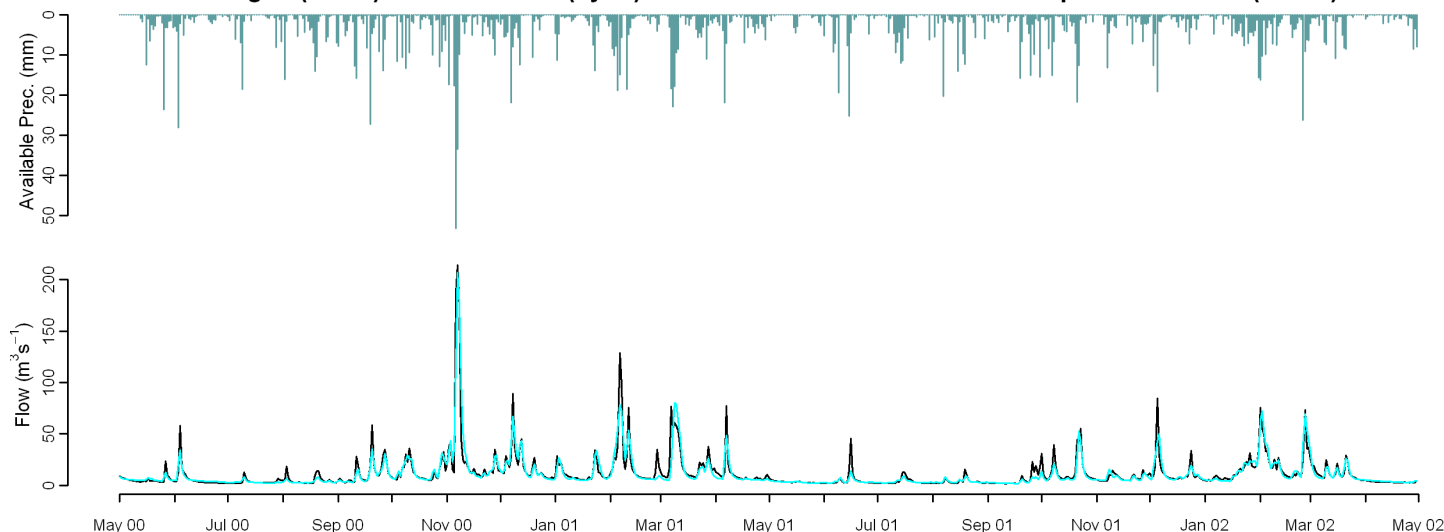
Model used: CERF

| | Mean Annual | J | F | M | A | M | J | J | A | S | O | N | D | Nash Sutcliffe |
|--------------------|-------------|------|------|-------|-------|-------|------|------|------|------|------|------|------|----------------|
| MORECS (1971-2005) | -1.3 | 0.0 | -1.3 | -10.3 | -7.0 | -11.5 | -8.2 | 1.4 | 6.1 | 13.9 | 1.6 | 1.5 | 3.6 | 0.76 |
| Performance Band | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 |
| MORECS (1962-1991) | -5.5 | -2.8 | -7.1 | -11.9 | -11.9 | -14.7 | -9.1 | -7.8 | -2.0 | 11.7 | -7.6 | -3.3 | -2.3 | 0.72 |
| | Q90 | Q75 | Q50 | Q25 | Q5 | RP2 | RP5 | RP10 | RP20 | | | | | |
| MORECS (1971-2005) | 15.8 | 15.8 | -2.1 | -9.8 | 4.4 | | | | | | | | | |
| Performance Band | 1 | 1 | 1 | 1 | 1 | | | | | | | | | |
| MORECS (1962-1991) | 11.8 | 12.5 | -8.0 | -15.5 | -2.6 | | | | | | | | | |

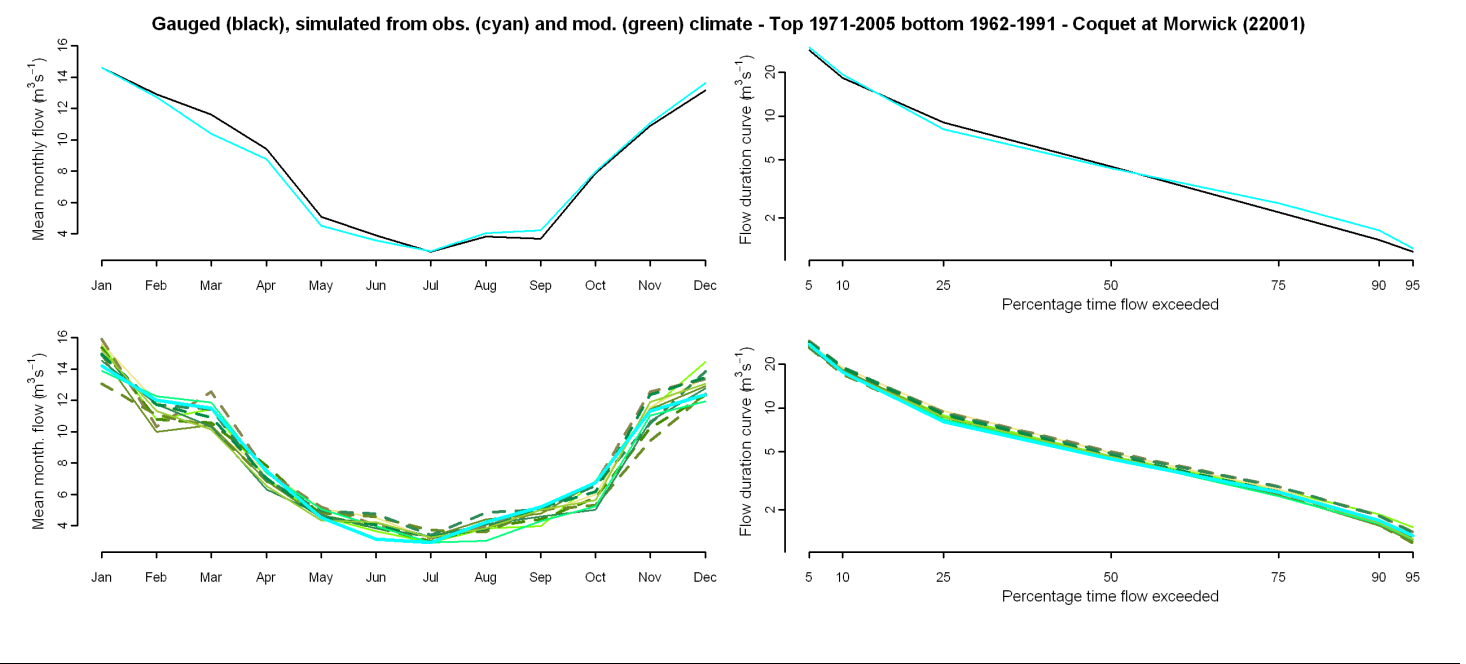
Gauged (black) and simulated (cyan) flows from observed climate - Coquet at Morwick (22001)



Gauged (black) and simulated (cyan) flows from observed climate - Coquet at Morwick (22001)



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 | 3 | -2 | 4 | 7 | -1 | -2 | -4 | 6 | -3 | 3 | -3 |
| January | 11 | 1 | 11 | 12 | 4 | -2 | 1 | 7 | -1 | 6 | 7 |
| April | -6 | -6 | 4 | 5 | -7 | -9 | -14 | 1 | -1 | -4 | -9 |
| July | 2 | 11 | 10 | 11 | 11 | 26 | 13 | 17 | 0 | 10 | 12 |
| October | 5 | -13 | -11 | 4 | -1 | -18 | -13 | -3 | -18 | -8 | -14 |
| Q90 | 12 | -6 | 0 | 7 | -11 | -8 | -3 | 7 | -7 | -5 | -2 |
| Q75 | 5 | -1 | 4 | 10 | -7 | -3 | -2 | 10 | -7 | 0 | 0 |
| Q50 | 5 | 3 | 9 | 13 | 0 | 3 | 3 | 11 | 2 | 5 | 4 |
| Q25 | 11 | 6 | 17 | 19 | 6 | 6 | 7 | 18 | 5 | 12 | 7 |
| Q5 | -3 | -5 | 1 | 6 | -2 | -2 | -5 | 8 | -3 | 3 | -5 |
| RP2 | -5 | -4 | -14 | -1 | -5 | -12 | -13 | -10 | -2 | -6 | 0 |
| RP10 | -20 | -18 | -20 | -16 | -10 | -22 | -21 | -17 | -21 | -17 | -1 |

Climate change graphs for 2050s

