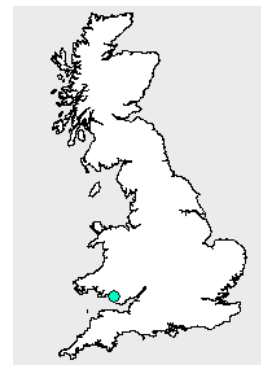


General Information

| | | | |
|----------------|-----------|-----------------------------|--------------|
| River Name | Llynfi | Catchment Area (km2) | 50 |
| Station Name | Coytrahen | SAAR (mm) 61-90 | 1769 |
| Station Number | 58007 | Mean Annual Rain (mm) 62-91 | 1781 |
| Grid Reference | SS891855 | Mean Annual PE (mm) 62-91 | 614 |
| EA Region | EA-W | Observed flow record | 1970 to 2005 |



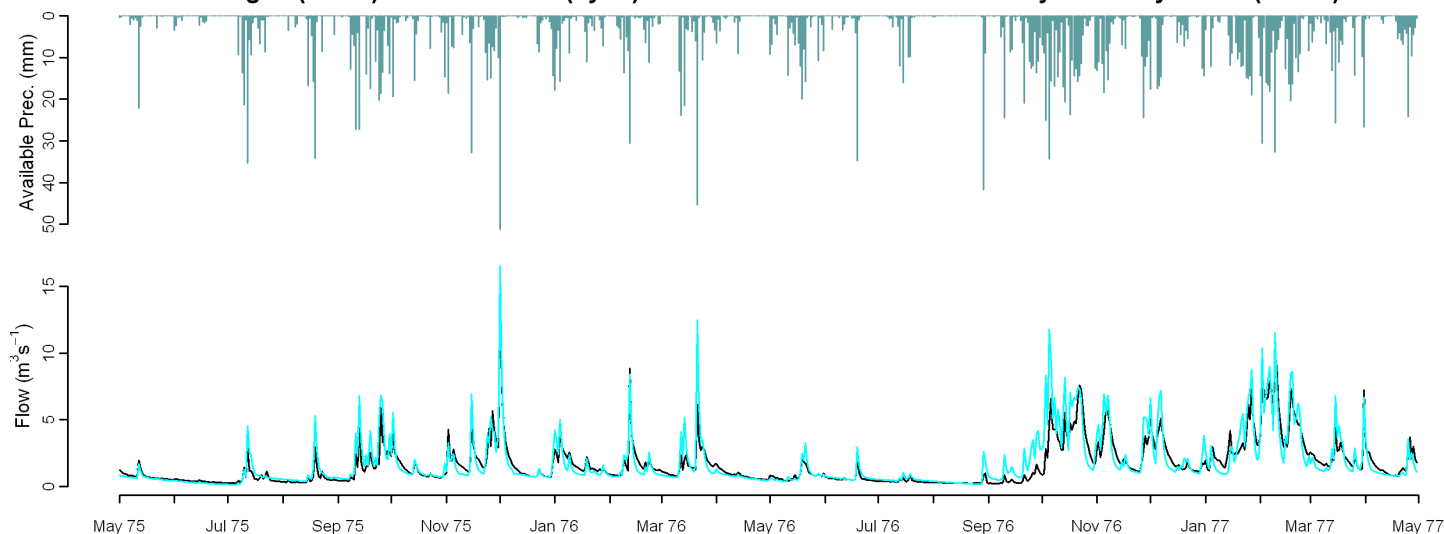
Observed Data

Comparison of gauged and simulated flow

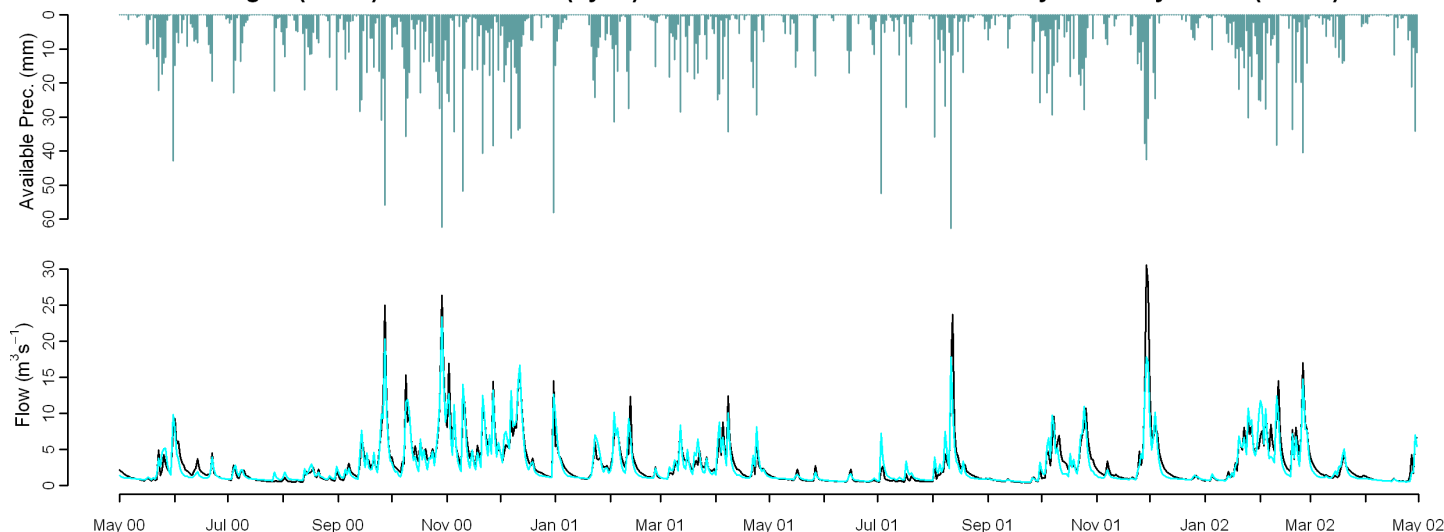
Model used: CERF

| | Mean Annual | J | F | M | A | M | J | J | A | S | O | N | D | Nash Sutcliffe |
|--------------------|-------------|------|-------|------|-------|------|------|------|------|------|-----|------|------|----------------|
| MORECS (1971-2005) | -1.3 | -0.1 | -4.6 | -8.9 | -11.4 | -6.2 | -5.6 | 1.6 | 8.3 | 12.6 | 5.6 | -1.7 | -1.7 | 0.80 |
| Performance Band | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 |
| MORECS (1962-1991) | 1.4 | 1.0 | -1.7 | -6.1 | -12.0 | -7.8 | -1.2 | 2.3 | 9.7 | 24.7 | 7.1 | -0.1 | 0.8 | 0.80 |
| | Q90 | Q75 | Q50 | Q25 | Q5 | RP2 | RP5 | RP10 | RP20 | | | | | |
| MORECS (1971-2005) | 9.9 | 5.6 | -17.4 | -9.5 | 13.9 | | | | | | | | | |
| Performance Band | 1 | 1 | 1 | 1 | 1 | | | | | | | | | |
| MORECS (1962-1991) | 9.8 | 6.4 | -17.0 | -7.6 | 16.2 | | | | | | | | | |

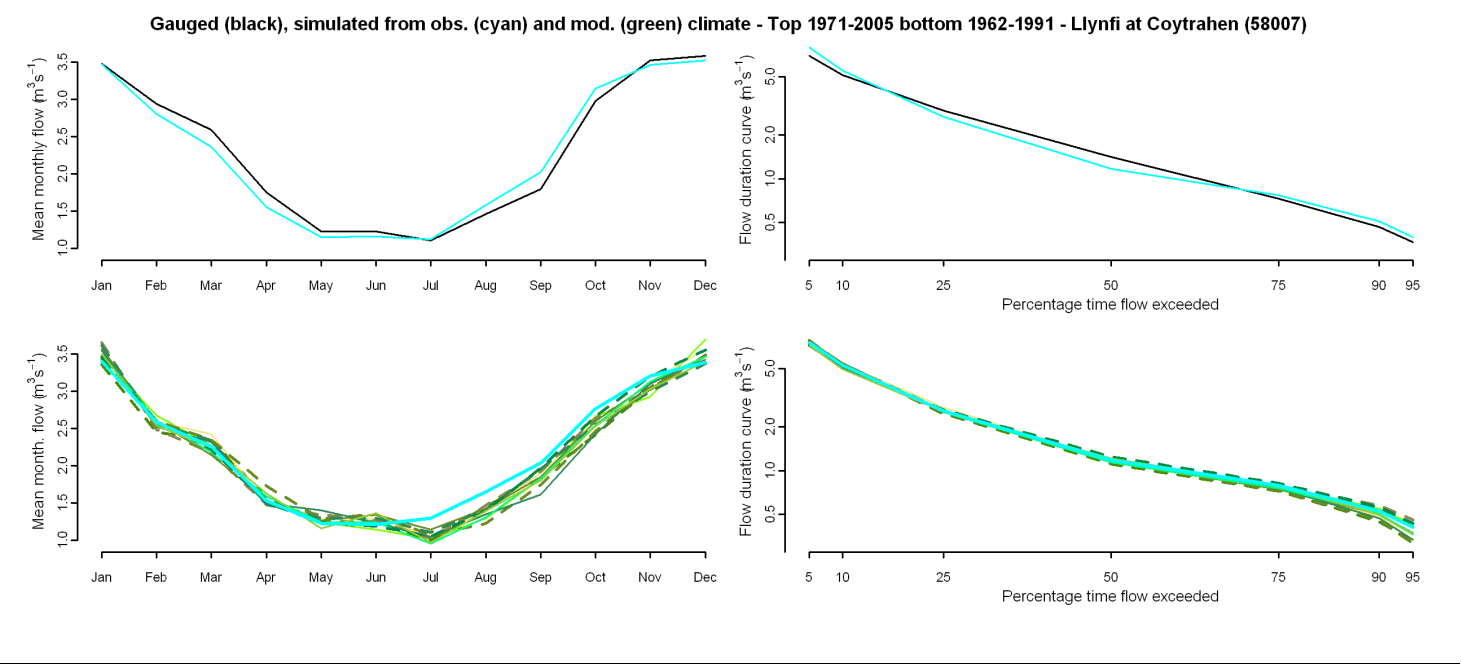
Gauged (black) and simulated (cyan) flows from observed climate - Llynfi at Coytrahen (58007)



Gauged (black) and simulated (cyan) flows from observed climate - Llynfi at Coytrahen (58007)



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 | -1 | -2 | 0 | 0 | -2 | -1 | -3 | -1 | -3 | -2 | -2 |
| January | 3 | -1 | 8 | 6 | 5 | 4 | 3 | 8 | 3 | 0 | 6 |
| April | -1 | -1 | 0 | 3 | 1 | 13 | 2 | 0 | 0 | -1 | 6 |
| July | -22 | -18 | -13 | -17 | -17 | -14 | -19 | -11 | -25 | -22 | -25 |
| October | -3 | -4 | -10 | -2 | -9 | -6 | -5 | -7 | -5 | -2 | -8 |
| Q90 | 4 | -17 | -8 | 11 | -10 | -15 | -13 | 2 | -6 | 3 | -5 |
| Q75 | 0 | -10 | -4 | 2 | -8 | -9 | -5 | 0 | -6 | 1 | -1 |
| Q50 | 1 | -6 | 0 | 3 | -4 | -3 | 2 | 2 | -4 | 4 | 1 |
| Q25 | 0 | -4 | 5 | 0 | -3 | 1 | 0 | 2 | -3 | 1 | -1 |
| Q5 | -3 | 4 | -1 | -1 | 1 | 2 | -4 | 2 | -1 | -5 | -3 |
| RP2 | 1 | 5 | 2 | 7 | 0 | -5 | 4 | -4 | 9 | 3 | 5 |
| RP10 | 1 | -1 | -1 | 3 | -4 | -7 | -1 | -4 | 10 | -3 | -2 |

Climate change graphs for 2050s

