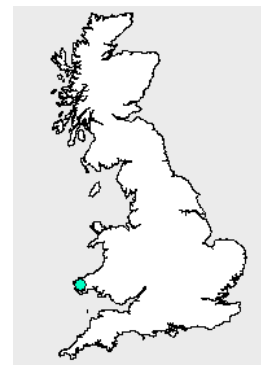


General Information

| | | | |
|----------------|------------------|-----------------------------|--------------|
| River Name | Western Cleddau | Catchment Area (km2) | 198 |
| Station Name | Prendergast Mill | SAAR (mm) 61-90 | 1275 |
| Station Number | 61001 | Mean Annual Rain (mm) 62-91 | 1274 |
| Grid Reference | SM954177 | Mean Annual PE (mm) 62-91 | 616 |
| EA Region | EA-W | Observed flow record | 1965 to 2005 |



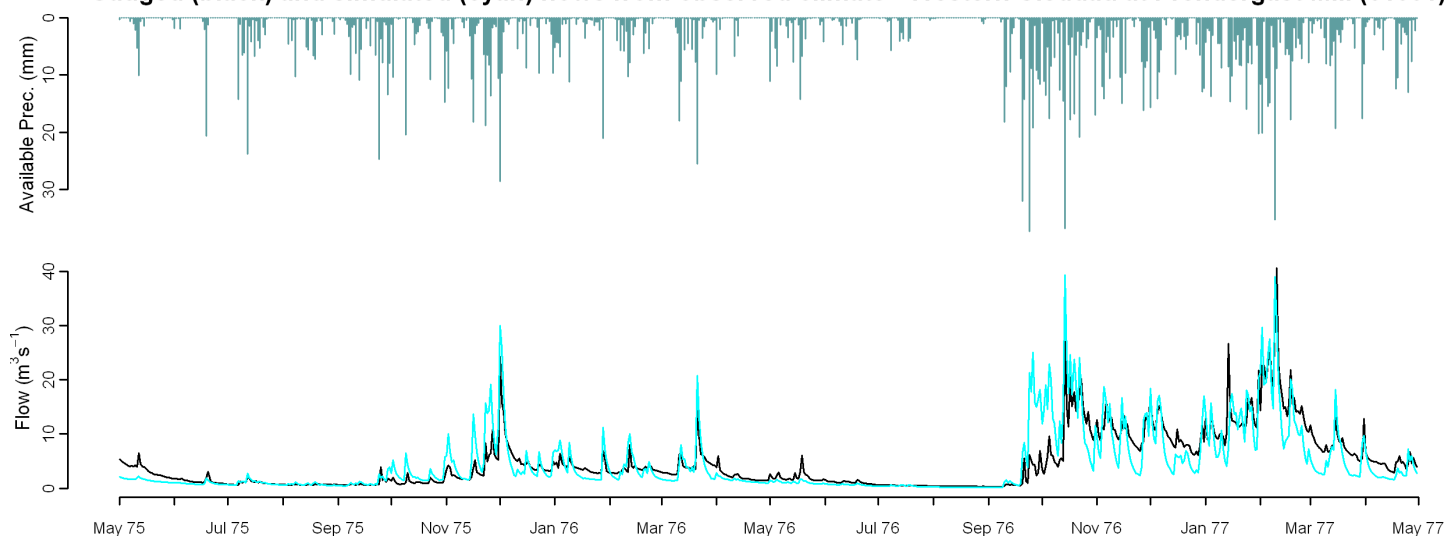
Observed Data

Comparison of gauged and simulated flow

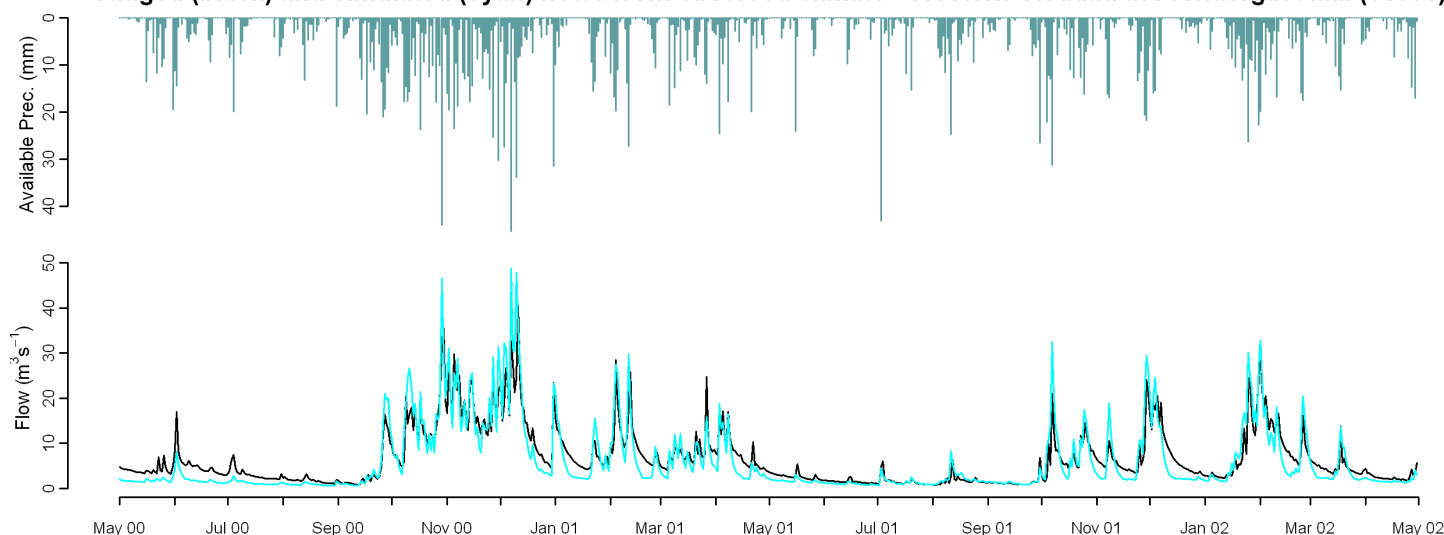
Model used: CERF

| | Mean Annual | J | F | M | A | M | J | J | A | S | O | N | D | Nash Sutcliffe |
|--------------------|-------------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-----|------|----------------|
| MORECS (1971-2005) | -4.5 | -9.7 | -13.2 | -16.2 | -24.6 | -31.8 | -24.4 | -15.7 | 24.8 | 34.1 | 25.2 | 4.7 | -3.3 | 0.67 |
| Performance Band | 1 | 1 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 3 | 2 | 1 | 1 | 1 |
| MORECS (1962-1991) | -4.7 | -8.8 | -14.4 | -19.5 | -27.2 | -40.5 | -34.0 | -9.9 | 28.5 | 41.8 | 27.6 | 7.3 | 1.5 | 0.62 |
| | Q90 | Q75 | Q50 | Q25 | Q5 | | | | | | | | | |
| MORECS (1971-2005) | -13.7 | -20.7 | -36.9 | -11.1 | 16.9 | | | | | | | | | |
| Performance Band | 1 | 1 | 1 | 2 | 2 | | | | | | | | | |
| MORECS (1962-1991) | -10.3 | -20.0 | -39.7 | -14.3 | 20.4 | | | | | | | | | |

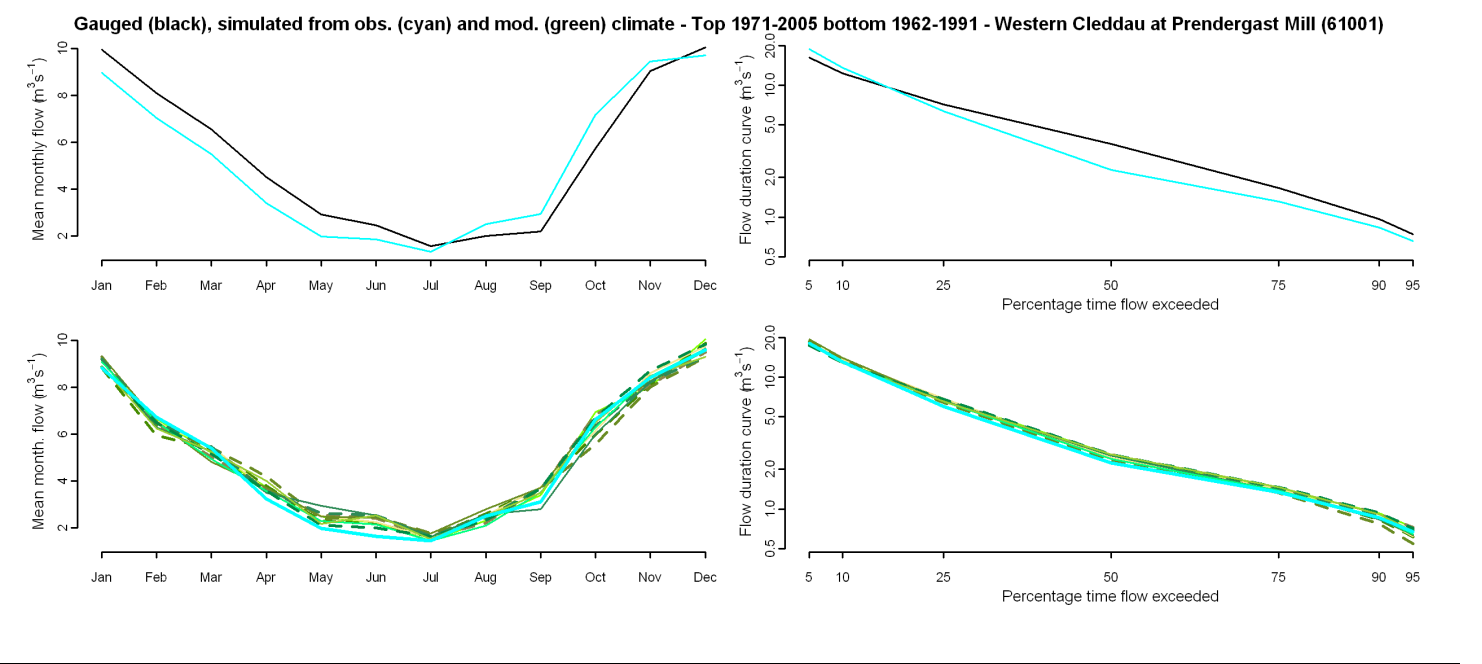
Gauged (black) and simulated (cyan) flows from observed climate - Western Cleddau at Prendergast Mill (61001)



Gauged (black) and simulated (cyan) flows from observed climate - Western Cleddau at Prendergast Mill (61001)



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 | 5 | 3 | 5 | 5 | 4 | 4 | 2 | 5 | 1 | 2 | 3 |
| January | 6 | -1 | 7 | 7 | 5 | 2 | 5 | 4 | 4 | -1 | 3 |
| April | 16 | 15 | 16 | 21 | 16 | 28 | 13 | 13 | 9 | 8 | 21 |
| July | 1 | 19 | 19 | 13 | 16 | 30 | 15 | 20 | 0 | 12 | 5 |
| October | 4 | -3 | -10 | 7 | -4 | -10 | -3 | -1 | -4 | 3 | -2 |
| Q90 | 8 | -3 | -1 | 7 | -4 | -11 | -4 | 6 | -2 | 5 | 4 |
| Q75 | 7 | 3 | 6 | 9 | 0 | -2 | 4 | 9 | 2 | 8 | 8 |
| Q50 | 16 | 5 | 8 | 18 | 4 | 3 | 14 | 16 | 6 | 14 | 15 |
| Q25 | 13 | 7 | 13 | 13 | 7 | 8 | 11 | 13 | 8 | 12 | 8 |
| Q5 | -2 | 2 | -1 | -1 | 5 | 3 | -2 | 0 | -4 | -5 | -1 |
| RP2 | -7 | -5 | -6 | -1 | -5 | -5 | -9 | -2 | -2 | -6 | -4 |
| RP10 | -7 | -8 | -12 | 0 | 3 | 7 | -2 | -7 | 3 | -3 | 1 |

Climate change graphs for 2050s

