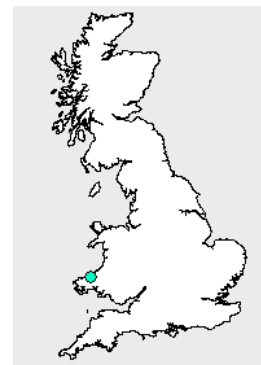


## General Information

|                |            |                             |              |
|----------------|------------|-----------------------------|--------------|
| River Name     | Teifi      | Catchment Area (km2)        | 894          |
| Station Name   | Glan Teifi | SAAR (mm) 61-90             | 1378         |
| Station Number | 62001      | Mean Annual Rain (mm) 62-91 | 1381         |
| Grid Reference | SN244416   | Mean Annual PE (mm) 62-91   | 579          |
| EA Region      | EA-W       | Observed flow record        | 1961 to 2005 |



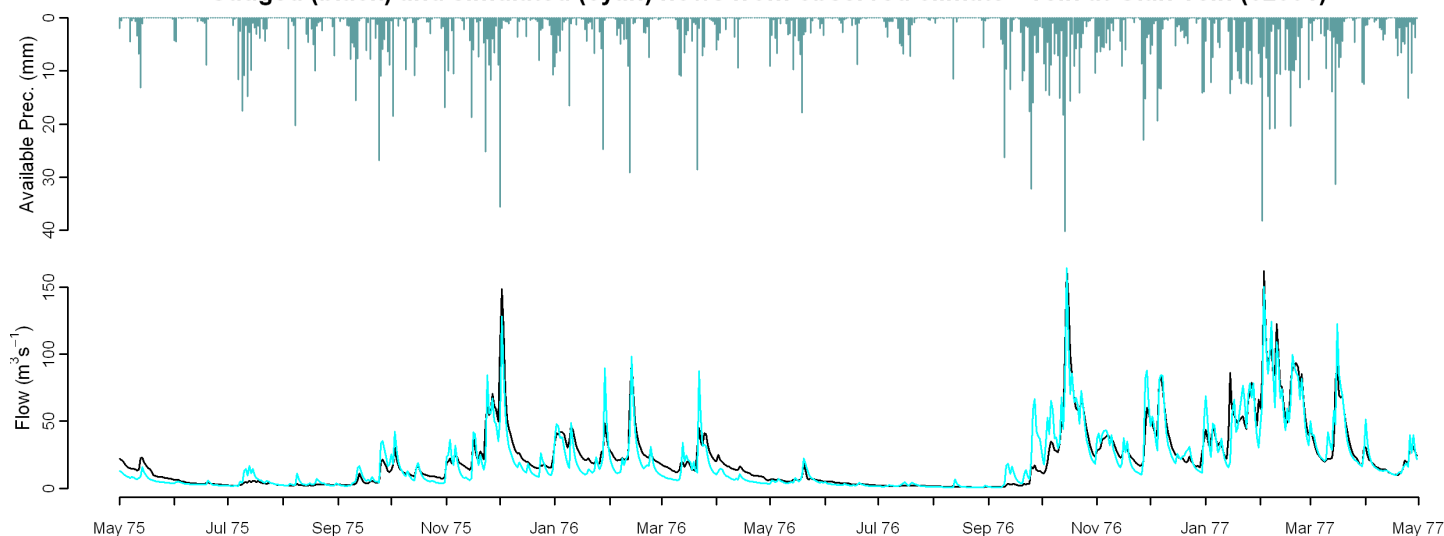
## Observed Data

## Comparison of gauged and simulated flow

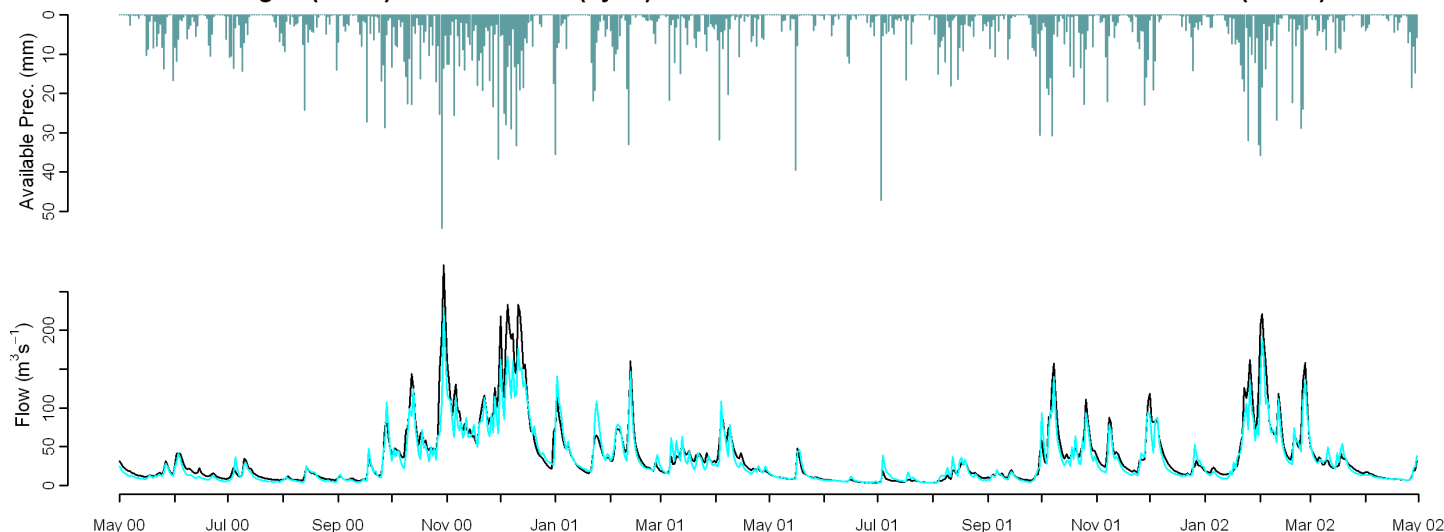
## Model used: CLASSIC

|                    | Mean Annual | J     | F     | M    | A     | M     | J     | J    | A     | S     | O     | N     | D     | Nash Sutcliffe |
|--------------------|-------------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|-------|-------|----------------|
| MORECS (1971-2005) | -10.5       | -10.7 | -6.6  | -8.0 | -11.0 | -16.6 | -16.0 | -7.7 | -1.1  | -2.5  | -12.1 | -13.8 | -12.0 | 0.88           |
| Performance Band   | 2           | 2     | 1     | 1    | 2     | 2     | 2     | 1    | 1     | 1     | 2     | 2     | 2     | 1              |
| FAO (1962-1991)    | -7.4        | -7.0  | -5.2  | -5.4 | -7.8  | -12.1 | -11.7 | -7.2 | -1.3  | 2.6   | -6.0  | -8.9  | -10.4 | 0.86           |
|                    | Q90         | Q75   | Q50   | Q25  | Q5    | RP2   |       |      | RP5   | RP10  | RP20  |       |       |                |
| MORECS (1971-2005) | -8.9        | -15.0 | -14.8 | -9.5 | -6.8  | -17.1 |       |      | -20.5 | -21.6 | -21.9 |       |       |                |
| Performance Band   | 1           | 1     | 1     | 1    | 1     |       |       |      |       |       |       |       |       |                |
| FAO (1962-1991)    | -2.5        | -12.8 | -14.4 | -6.2 | -3.9  | -10.1 |       |      | -11.5 | -11.9 | -11.9 |       |       |                |

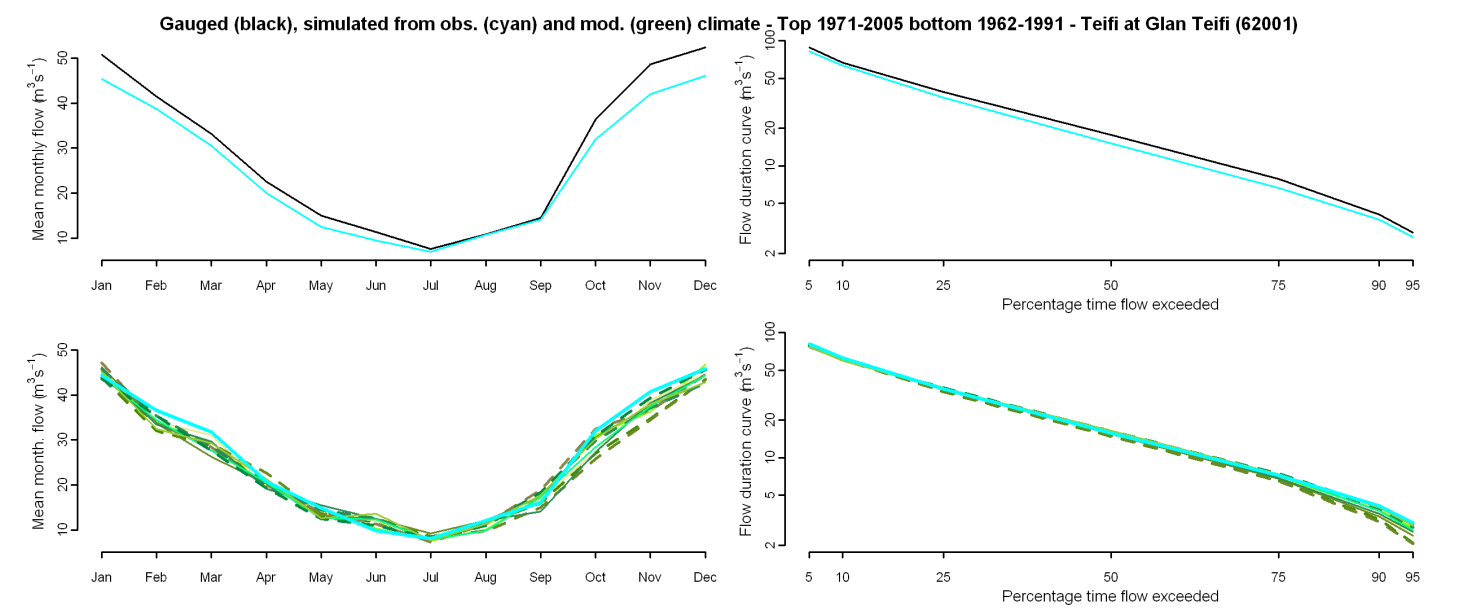
Gauged (black) and simulated (cyan) flows from observed climate - Teifi at Glan Teifi (62001)



Gauged (black) and simulated (cyan) flows from observed climate - Teifi at Glan Teifi (62001)



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    | -4    | -2    | 0     | -3    | -5    | -2    | 0     | -3    | -2    | -1    |
| January | 5     | 1     | 4     | 4     | 7     | -1    | 0     | 5     | 2     | -3    | 7     |
| April   | -5    | -2    | -6    | 5     | -2    | 9     | -3    | -2    | -3    | -7    | 2     |
| July    | -4    | 9     | 13    | -5    | 8     | 14    | -1    | 8     | -4    | -2    | -7    |
| October | -3    | -9    | -16   | 4     | -7    | -16   | -8    | -4    | -10   | -3    | -4    |
| Q90     | -8    | -23   | -15   | 0     | -21   | -26   | -15   | -6    | -10   | -6    | -3    |
| Q75     | -2    | -10   | -4    | 3     | -9    | -11   | -4    | 3     | -2    | 0     | 3     |
| Q50     | 1     | -6    | -2    | 4     | -4    | -5    | 4     | 2     | -3    | 2     | 4     |
| Q25     | 2     | -4    | 2     | 3     | 1     | -2    | 0     | 2     | -1    | 0     | 0     |
| Q5      | -4    | -2    | -4    | -3    | -2    | -4    | -7    | -1    | -3    | -5    | -5    |
| RP2     | -6    | -7    | -5    | 4     | 0     | -8    | -3    | -5    | -4    | -1    | -3    |
| RP10    | -10   | -17   | -8    | -3    | -2    | -13   | -11   | -15   | 0     | -6    | -10   |

Climate change graphs for 2050s

