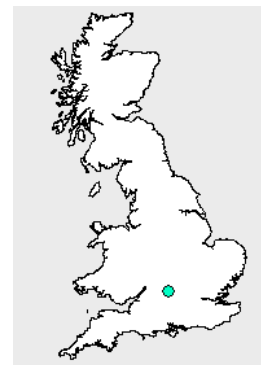


## General Information

River Name	Windrush	Catchment Area (km2)	363
Station Name	Newbridge	SAAR (mm) 61-90	745
Station Number	39006	Mean Annual Rain (mm) 62-91	751
Grid Reference	SP402019	Mean Annual PE (mm) 62-91	607
EA Region	EA-SE	Observed flow record	1962 to 2005



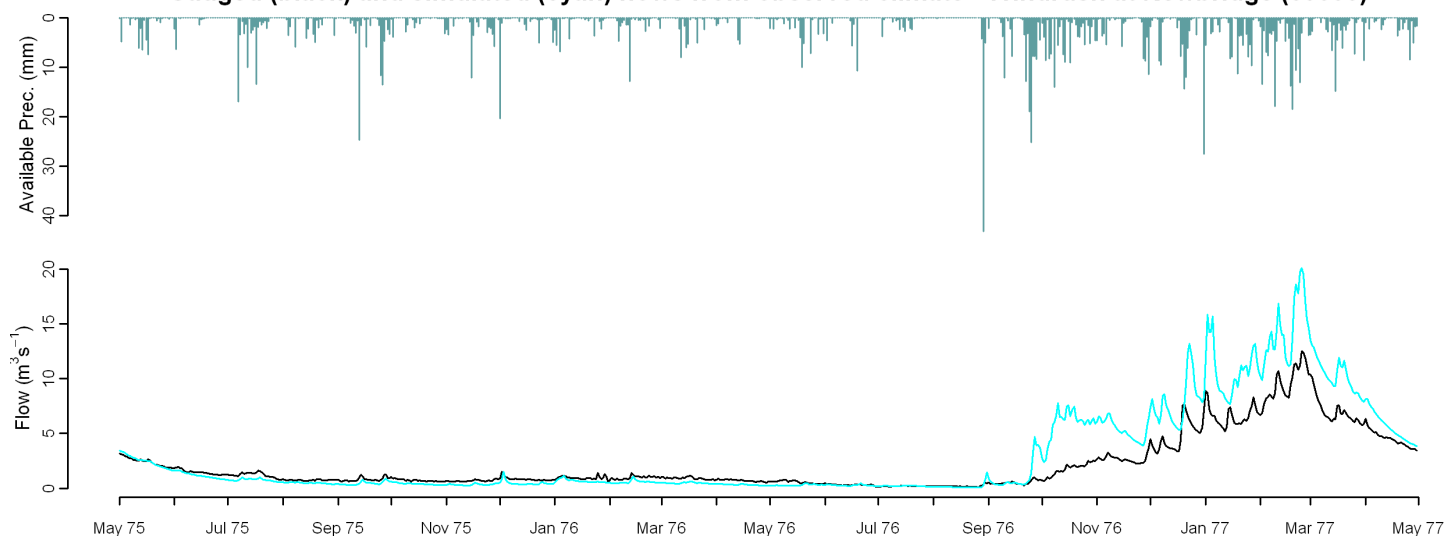
## Observed Data

## Comparison of gauged and simulated flow

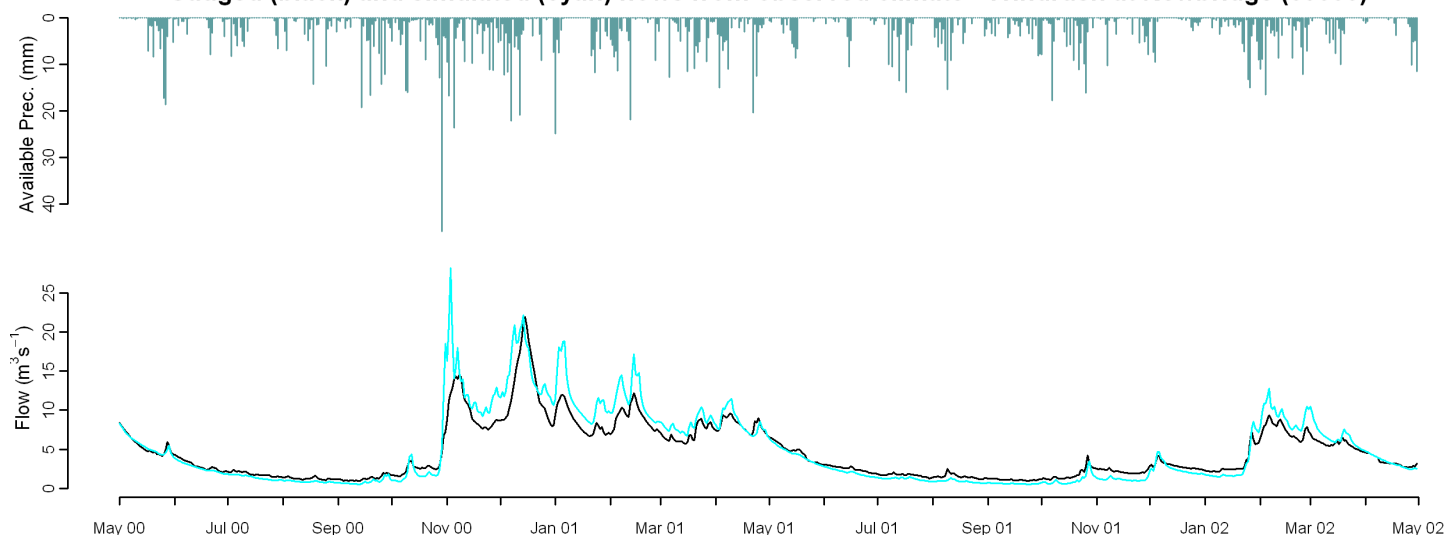
## Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	6.7	24.9	23.1	14.3	-0.4	-15.2	-22.3	-30.6	-29.4	-29.6	-15.0	7.9	16.8	0.68
Performance Band	1	2	2	2	1	2	2	3	3	3	2	2	1	1
MORECS (1962-1991)	-1.6	19.0	20.0	12.4	-4.2	-23.1	-30.3	-30.8	-28.9	-38.3	-28.7	-9.2	6.9	0.63
	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20					
MORECS (1971-2005)	-42.6	-39.3	-21.3	9.5	29.9									
Performance Band	1	1	2	2	3									
MORECS (1962-1991)	-44.3	-45.8	-29.0	2.3	26.4									

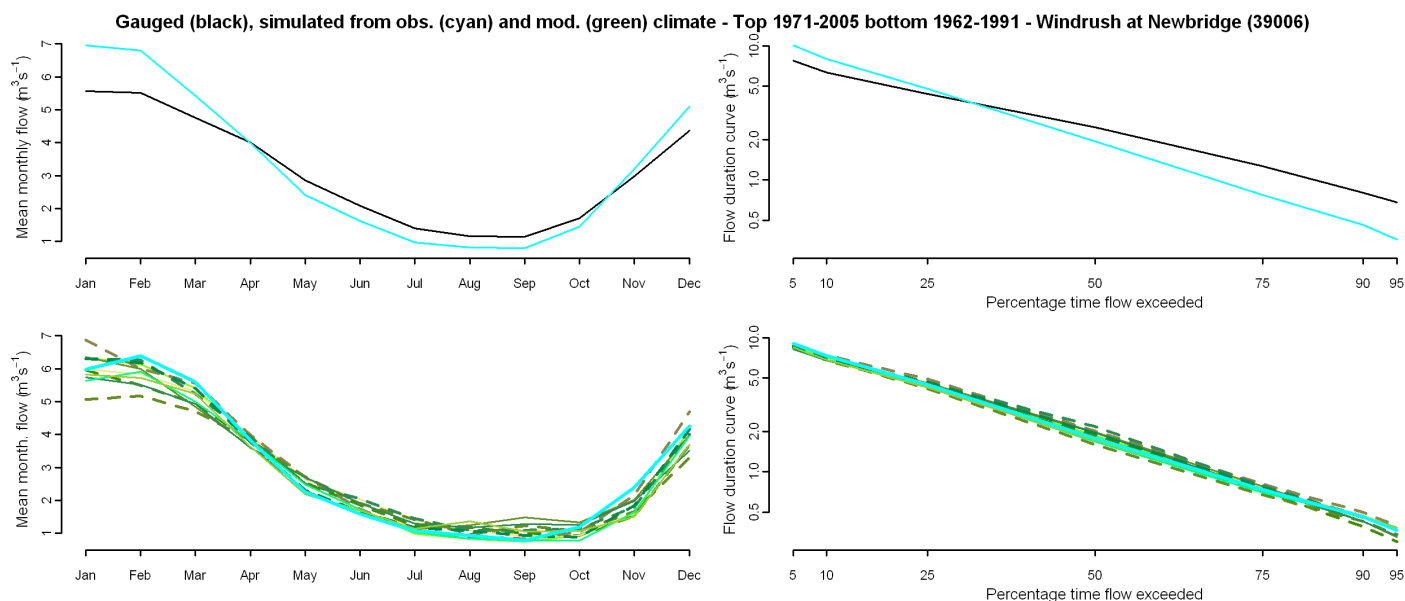
Gauged (black) and simulated (cyan) flows from observed climate - Windrush at Newbridge (39006)



Gauged (black) and simulated (cyan) flows from observed climate - Windrush at Newbridge (39006)



## 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	-7	0	5	-2	-9	-4	3	-6	-2	-6
January	6	-5	2	15	7	-16	-7	8	-4	5	-3
April	2	-5	9	9	-5	-2	-5	8	4	-1	-3
July	0	14	33	1	1	29	23	38	-1	8	3
October	-19	-21	-20	-8	-4	-8	8	-1	-30	-25	-10
Q90	2	-17	2	9	-13	-8	-6	0	-3	-4	1
Q75	2	-6	3	12	-3	-9	0	10	-5	1	-1
Q50	5	1	0	17	4	-11	11	25	-4	8	-7
Q25	-1	-8	2	11	-1	-10	-1	5	-3	3	-7
Q5	-5	-8	-2	0	-9	-8	-11	-2	-6	-9	-8
RP2	-6	-10	-3	-5	-8	-7	-3	-2	-5	-7	-9
RP10	-14	-6	9	-5	6	-3	19	7	-6	7	3

## Climate change graphs for 2050s

