

General Information

River Name	Lwyd	Catchment Area (km ²)	98
Station Name	Ponthir	SAAR (mm) 61-90	1393
Station Number	56005	Mean Annual Rain (mm) 62-91	1413
Grid Reference	ST330924	Mean Annual PE (mm) 62-91	582
EA Region	EA-W	Observed flow record	1966 to 1998



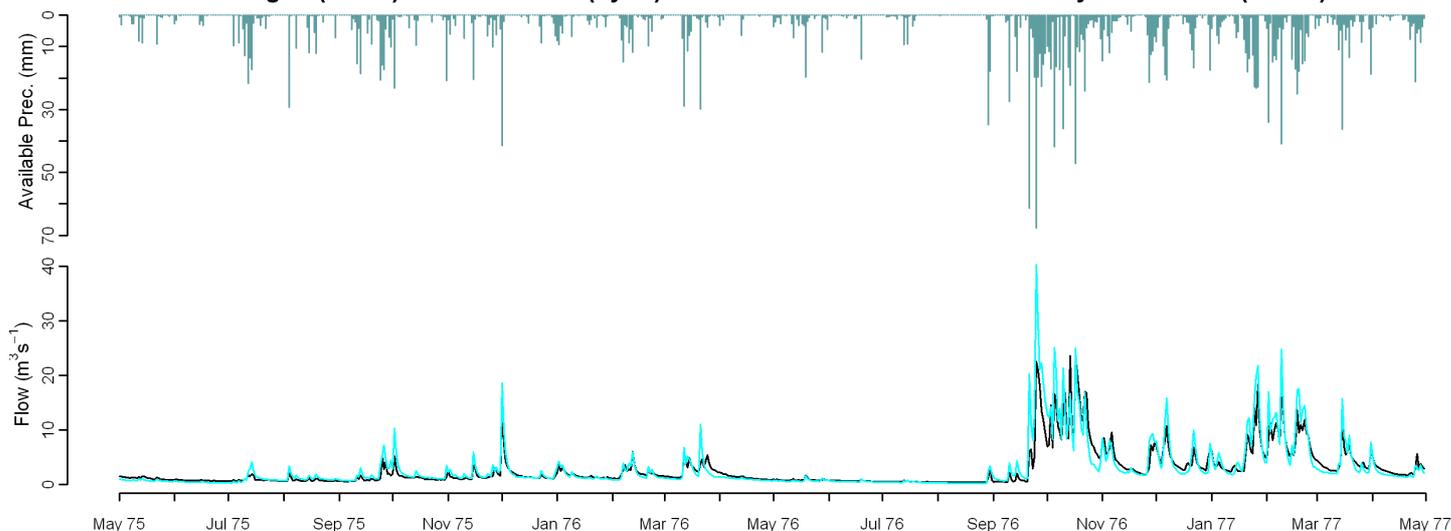
Observed Data

Comparison of gauged and simulated flow

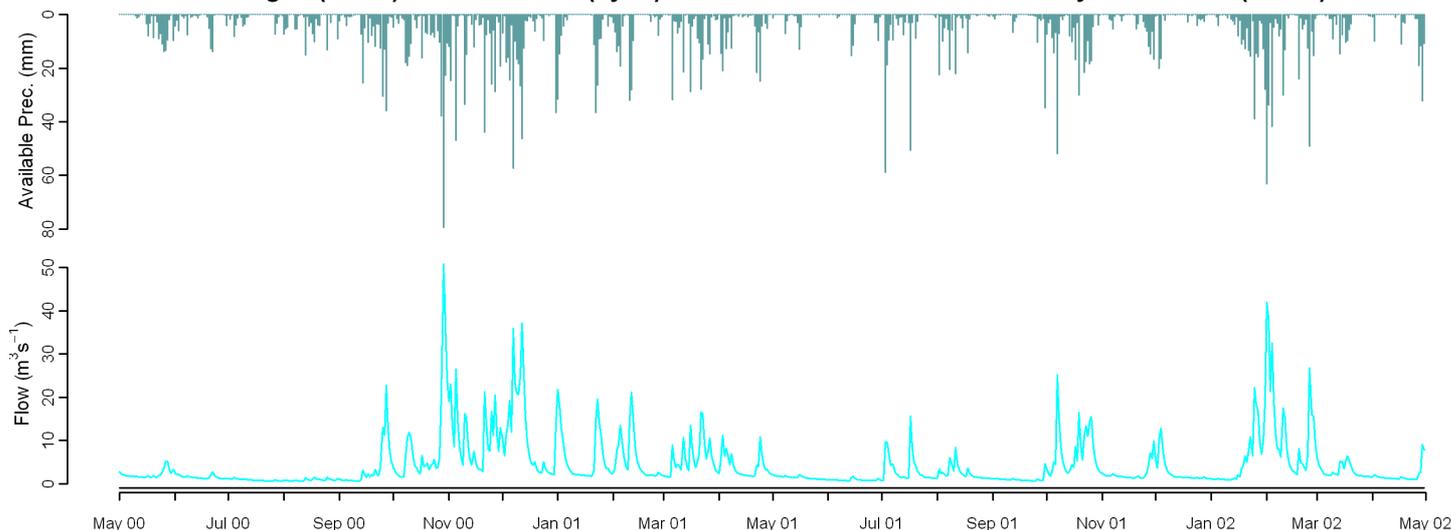
Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	4.3	7.1	-0.3	-4.6	-17.0	-20.6	-12.6	-2.8	24.7	33.4	24.6	12.9	6.9	0.75
Performance Band	1	1	1	1	2	2	2	1	2	3	2	2	1	1
MORECS (1962-1991)	5.4	6.7	-1.1	-2.9	-15.1	-17.1	-9.8	2.8	25.8	35.3	23.8	14.0	7.5	0.77
	Q90	Q75	Q50	Q25	Q5	RP2		RP5		RP10		RP20		
MORECS (1971-2005)	-7.9	-8.1	-16.4	-6.6	26.7									
Performance Band	1	1	2	2	2									
MORECS (1962-1991)	-5.4	-0.1	-11.7	-4.8	26.1									

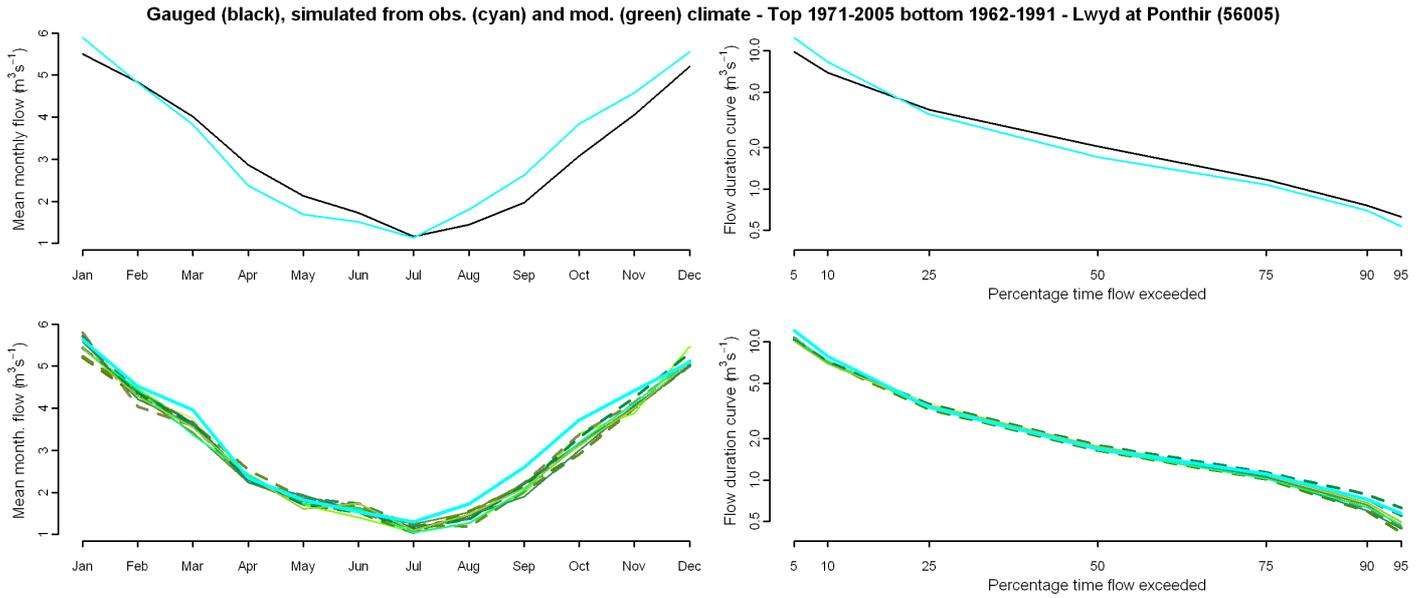
Gauged (black) and simulated (cyan) flows from observed climate - Lwyd at Ponthir (56005)



Gauged (black) and simulated (cyan) flows from observed climate - Lwyd at Ponthir (56005)



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	-8	-5	-4	-6	-6	-7	-4	-7	-6	-6
January	-2	-9	3	1	-1	-5	-1	3	-4	-5	-1
April	-1	-5	2	3	-4	9	-2	0	3	-1	3
July	-16	-16	-10	-14	-9	-5	-12	-7	-18	-14	-15
October	-9	-17	-18	-5	-17	-18	-12	-15	-11	-9	-18
Q90	-1	-20	-6	0	-14	-16	-18	-1	-14	4	-6
Q75	-1	-10	-4	1	-7	-7	-5	1	-8	1	-2
Q50	2	-3	4	5	1	2	4	5	-2	5	3
Q25	2	-5	6	3	0	2	3	6	-2	5	2
Q5	-13	-12	-12	-11	-12	-14	-15	-10	-12	-15	-15
RP2	-14	2	-12	-1	-11	-9	-6	-13	1	-9	-11
RP10	-18	-4	-22	-4	-18	-7	-9	-17	-2	-15	-16

Climate change graphs for 2050s

