

General Information

River Name	Doniford Stream	Catchment Area (km ²)	76
Station Name	Swill Bridge	SAAR (mm) 61-90	908
Station Number	51001	Mean Annual Rain (mm) 62-91	917
Grid Reference	ST088428	Mean Annual PE (mm) 62-91	611
EA Region	EA-SW	Observed flow record	1967 to 2005



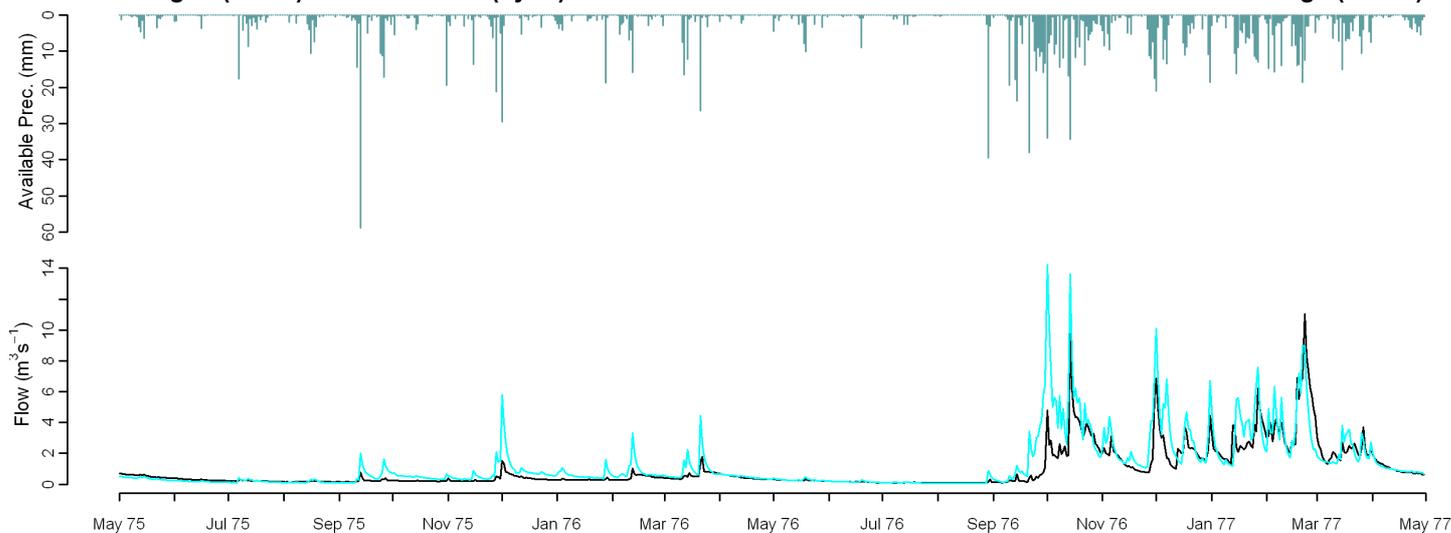
Observed Data

Comparison of gauged and simulated flow

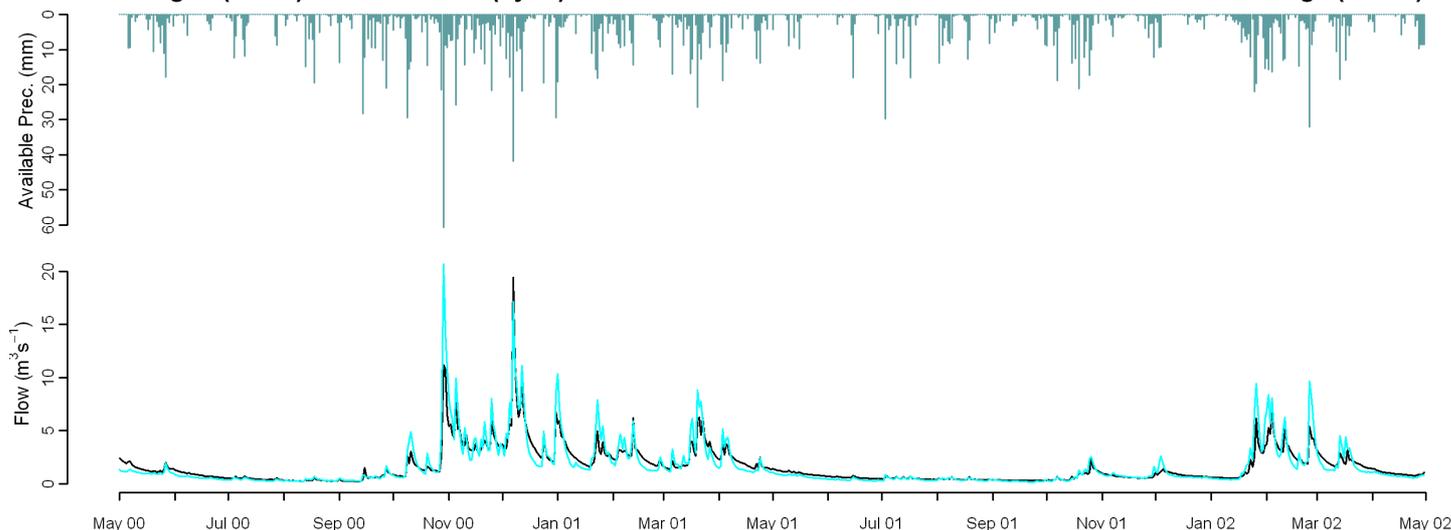
Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	13.5	19.0	5.7	0.7	-7.1	-19.4	-20.2	-13.9	2.8	31.7	50.8	49.5	32.1	0.56
Performance Band	2	2	1	1	2	2	2	1	1	3	3	3	2	2
MORECS (1962-1991)	17.8	22.8	4.8	4.1	-2.7	-11.0	-11.2	3.0	22.7	49.3	61.5	53.3	36.1	0.60
	Q90	Q75	Q50	Q25	Q5			RP2	RP5	RP10	RP20			
MORECS (1971-2005)	-13.9	-2.5	-4.2	2.6	36.6									
Performance Band	1	1	2	3	3									
MORECS (1962-1991)	-8.2	8.1	5.7	12.6	36.2									

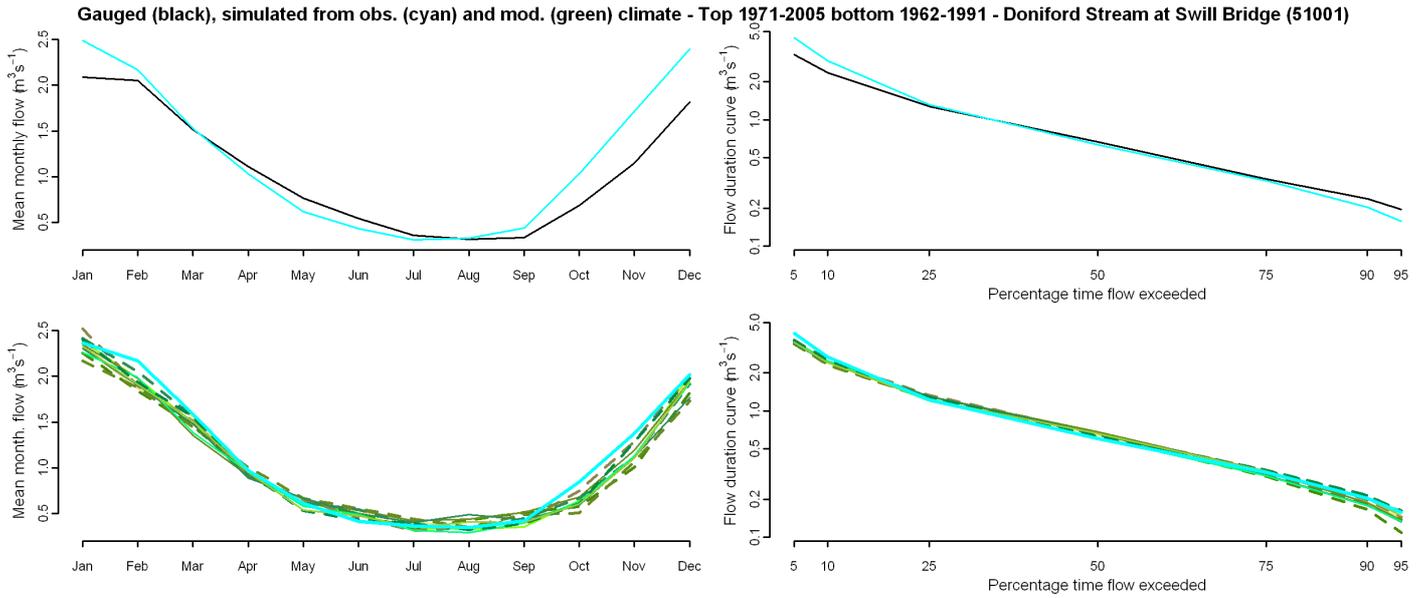
Gauged (black) and simulated (cyan) flows from observed climate - Doniford Stream at Swill Bridge (51001)



Gauged (black) and simulated (cyan) flows from observed climate - Doniford Stream at Swill Bridge (51001)



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	-4	-8	-5	-2	-4	-7	-7	-2	-9	-7	-7
January	1	-6	2	7	1	-7	-3	5	-2	1	0
April	-3	-10	2	-1	-4	3	-6	-4	-1	-3	1
July	-3	-6	13	-11	9	23	12	5	-10	4	-6
October	-22	-30	-26	-8	-26	-38	-27	-21	-25	-28	-28
Q90	1	-20	-7	-2	-14	-12	-11	6	-14	-1	-2
Q75	2	-8	0	6	-3	-2	-4	6	-6	0	1
Q50	10	3	7	14	10	4	11	9	1	2	8
Q25	5	-1	4	11	5	0	6	6	-3	3	-1
Q5	-15	-19	-13	-13	-15	-17	-17	-11	-14	-14	-15
RP2	-17	-13	-13	-8	-14	-15	-13	-6	-11	-12	-20
RP10	-18	-16	-15	-17	-16	-14	-13	-18	-18	-19	-20

Climate change graphs for 2050s

