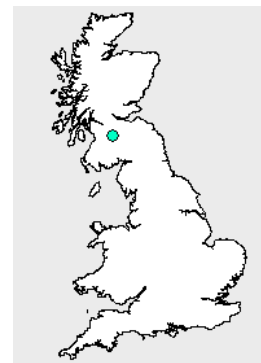


General Information

River Name	Douglas Water	Catchment Area (km2)	97
Station Name	Happendon	SAAR (mm) 61-90	1238
Station Number	84037	Mean Annual Rain (mm) 62-91	1266
Grid Reference	NS855333	Mean Annual PE (mm) 62-91	442
EA Region	SEPA-SW	Observed flow record	1989 to 2005



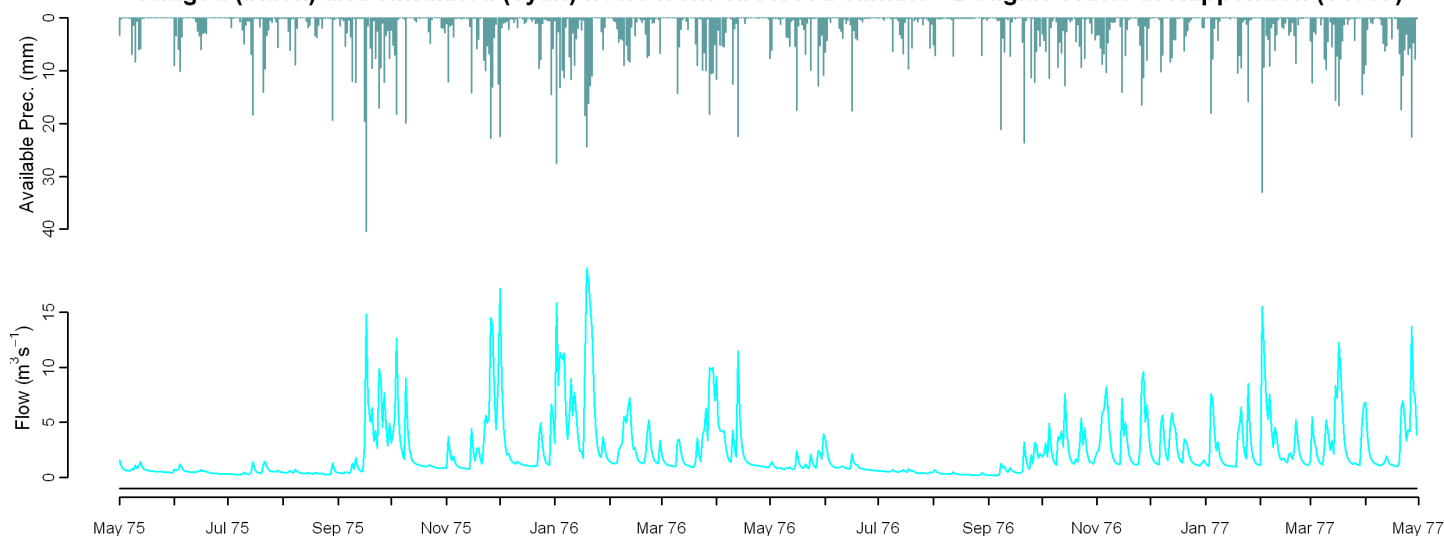
Observed Data

Comparison of gauged and simulated flow

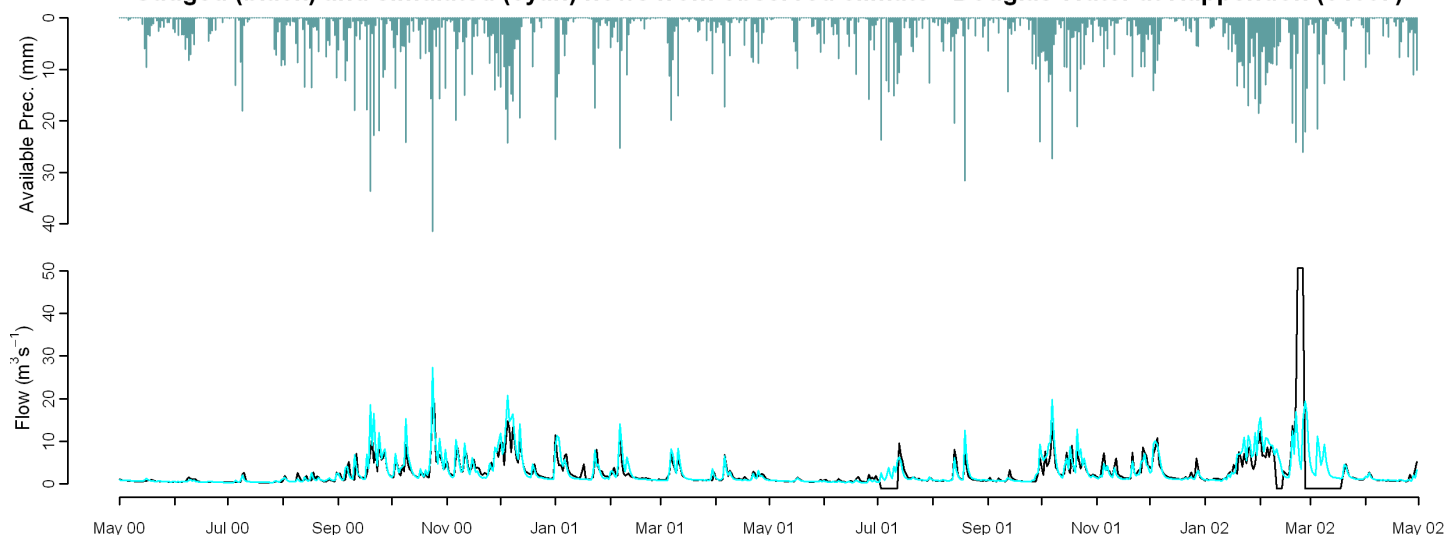
Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	10.4	11.3	16.1	3.8	-4.0	-5.3	-5.7	0.0	14.9	14.7	26.7	11.3	10.4	0.60
Performance Band	2	2	2	2	2	1	2	1	1	1	2	2	2	2
MORECS (1962-1991)														
	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20					
MORECS (1971-2005)	10.6	5.0	-13.4	2.8	23.2									
Performance Band	1	1	2	3	3									
MORECS (1962-1991)														

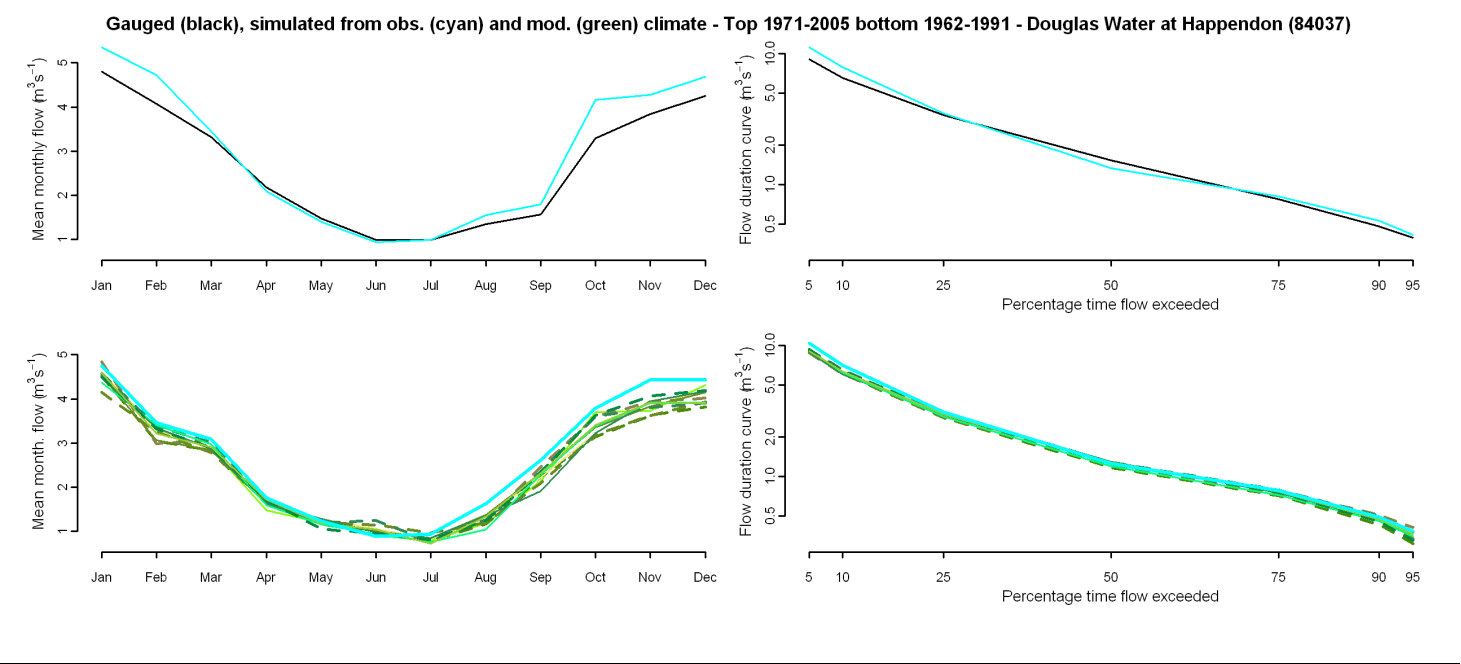
Gauged (black) and simulated (cyan) flows from observed climate - Douglas Water at Happendon (84037)



Gauged (black) and simulated (cyan) flows from observed climate - Douglas Water at Happendon (84037)



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	-7	-9	-6	-3	-7	-9	-7	-5	-8	-5	-7
January	-3	-4	-2	0	-4	-8	-8	-3	-7	-9	-1
April	-14	-8	-6	4	-8	-5	-6	-3	-10	-1	-4
July	-14	-9	-15	-14	-9	-10	-8	-16	-18	-17	-23
October	-3	-12	-17	-1	-10	-15	-7	-7	-11	-3	-8
Q90	-1	-10	-6	5	-8	-8	-5	1	-6	-12	-5
Q75	-1	-8	-3	1	-4	-9	-5	0	-8	-6	-3
Q50	1	-5	2	2	1	-2	3	2	-4	1	2
Q25	-3	-8	-2	-3	-4	-8	-1	-3	-7	-2	-4
Q5	-13	-12	-12	-10	-13	-14	-14	-10	-11	-11	-13
RP2	-13	-10	-7	-6	-7	-7	-10	-7	-3	-12	-11
RP10	-18	-11	-14	-13	-5	-13	-13	-5	-12	-10	-5

Climate change graphs for 2050s

