

General Information

River Name	Rye	Catchment Area (km2)	239
Station Name	Ness	SAAR (mm) 61-90	841
Station Number	27049	Mean Annual Rain (mm) 62-91	840
Grid Reference	SE694792	Mean Annual PE (mm) 62-91	565
EA Region	EA-NE	Observed flow record	1974 to 2005



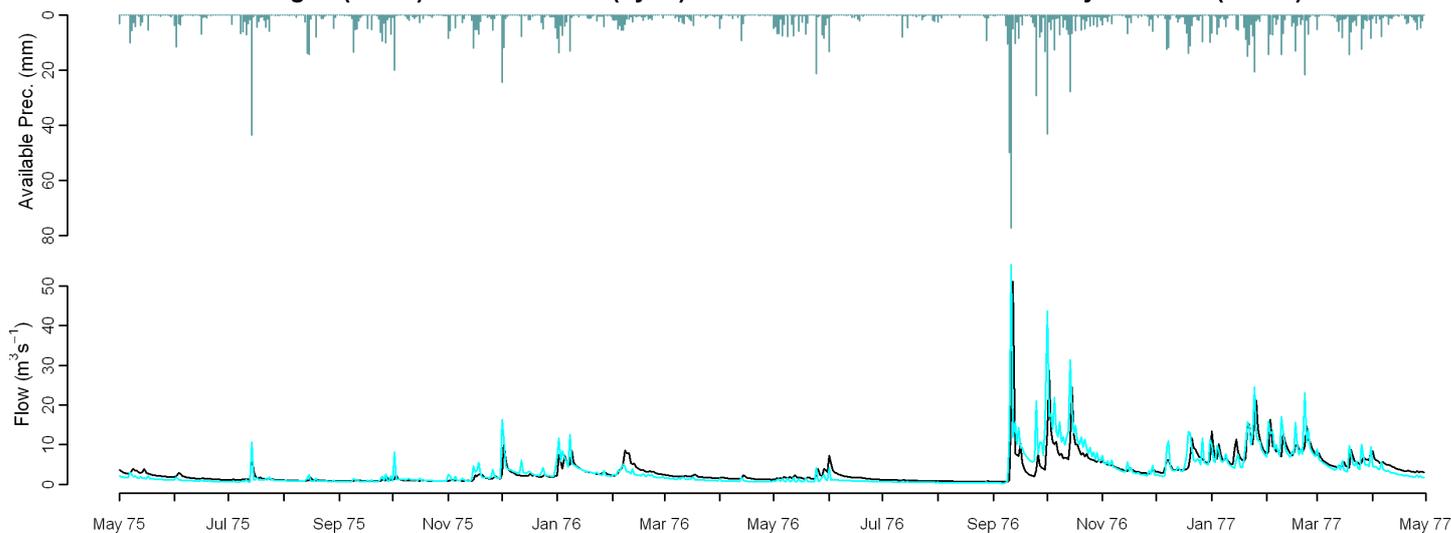
Observed Data

Comparison of gauged and simulated flow

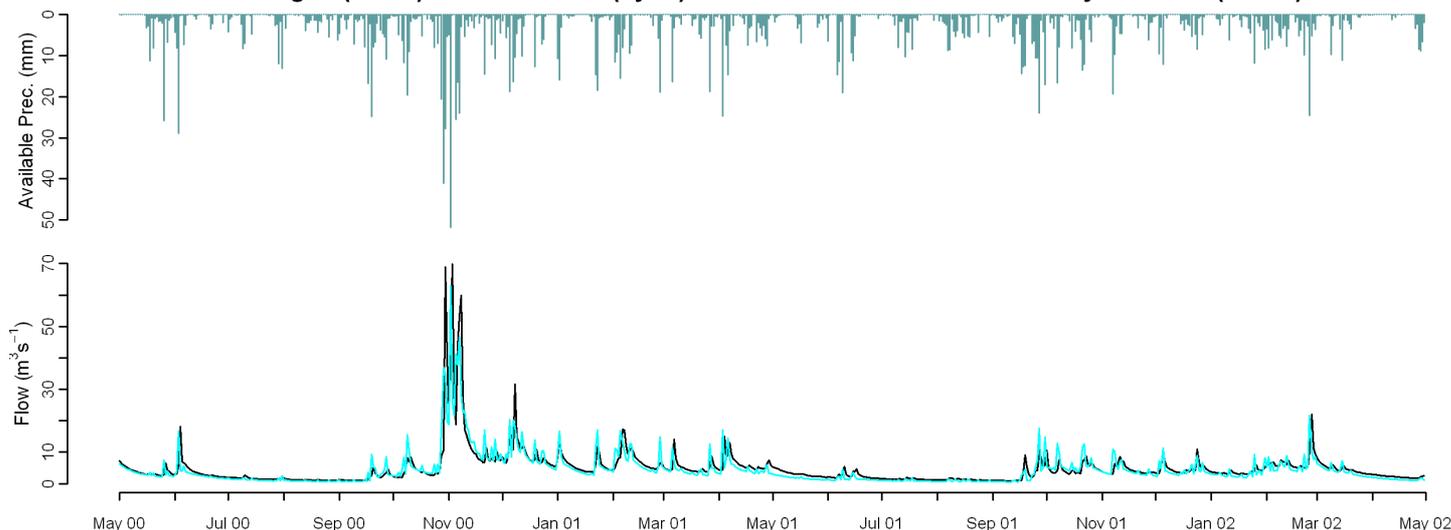
Model used: PDM

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-6.4	2.9	-4.2	-19.0	-22.1	-29.5	-31.4	-23.9	-8.1	10.3	7.4	9.7	8.9	0.52
Performance Band	1	1	1	2	2	2	3	2	1	1	1	1	1	2
FAO (1962-1991)	-3.3	5.6	-3.4	-17.2	-17.1	-24.9	-26.5	-21.4	-13.2	14.5	14.2	18.8	11.8	0.49
	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20					
MORECS (1971-2005)	-28.7	-26.4	-17.3	-5.4	10.0	-27.0	-33.2	-32.3	-28.4					
Performance Band	1	1	2	1	2									
FAO (1962-1991)	-29.0	-22.5	-15.2	-2.7	14.3	-23.1	-26.9	-22.1	-13.9					

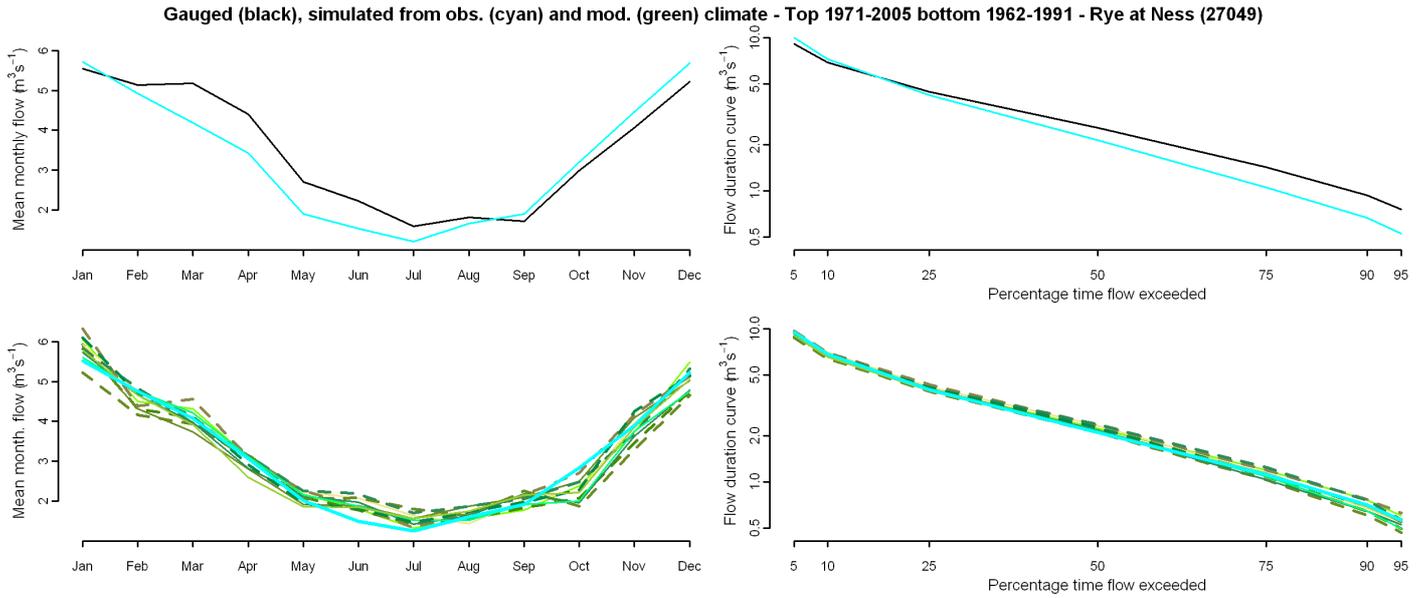
Gauged (black) and simulated (cyan) flows from observed climate - Rye at Ness (27049)



Gauged (black) and simulated (cyan) flows from observed climate - Rye at Ness (27049)



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	3	-3	3	7	-1	-4	-3	6	-2	2	-2
January	11	4	10	16	8	-2	3	9	3	10	5
April	1	-7	4	3	-10	-2	-10	4	0	-5	-13
July	7	28	29	6	24	39	12	33	19	14	23
October	-14	-27	-21	1	-15	-33	-28	-12	-29	-20	-2
Q90	10	-9	-5	11	-1	-14	-9	6	-9	-3	-2
Q75	9	0	3	11	-1	-7	-9	13	-3	0	3
Q50	8	3	12	14	0	0	2	13	2	8	1
Q25	2	-2	4	9	0	-2	-3	5	-2	3	-2
Q5	-1	-8	0	3	-4	-7	-6	3	-2	-2	-7
RP2	-1	-2	4	10	5	12	1	5	10	10	12
RP10	-6	1	3	-3	-2	4	6	-1	9	-8	8

Climate change graphs for 2050s

