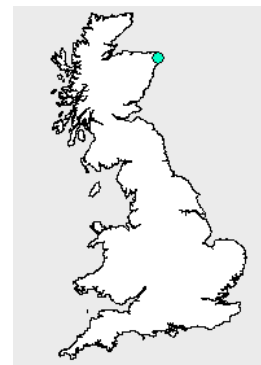


General Information

River Name	Ugie	Catchment Area (km2)	325
Station Name	Inverugie	SAAR (mm) 61-90	812
Station Number	10002	Mean Annual Rain (mm) 62-91	829
Grid Reference	NK101485	Mean Annual PE (mm) 62-91	573
EA Region	SEPA-NE	Observed flow record	1971 to 2005



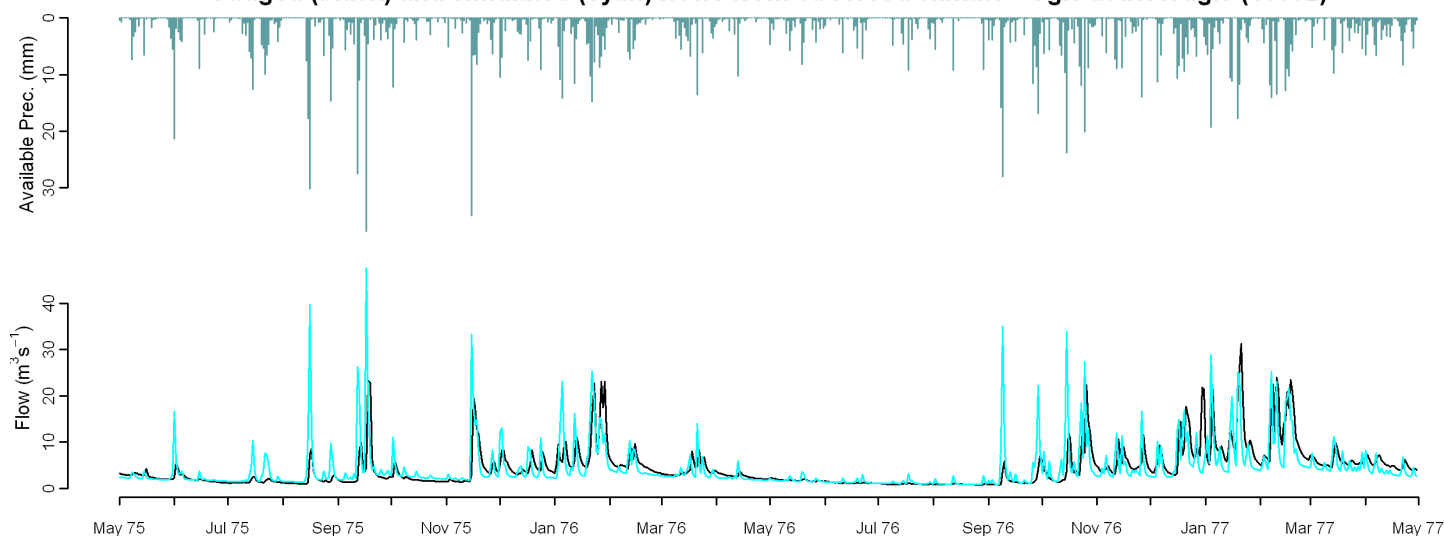
Observed Data

Comparison of gauged and simulated flow

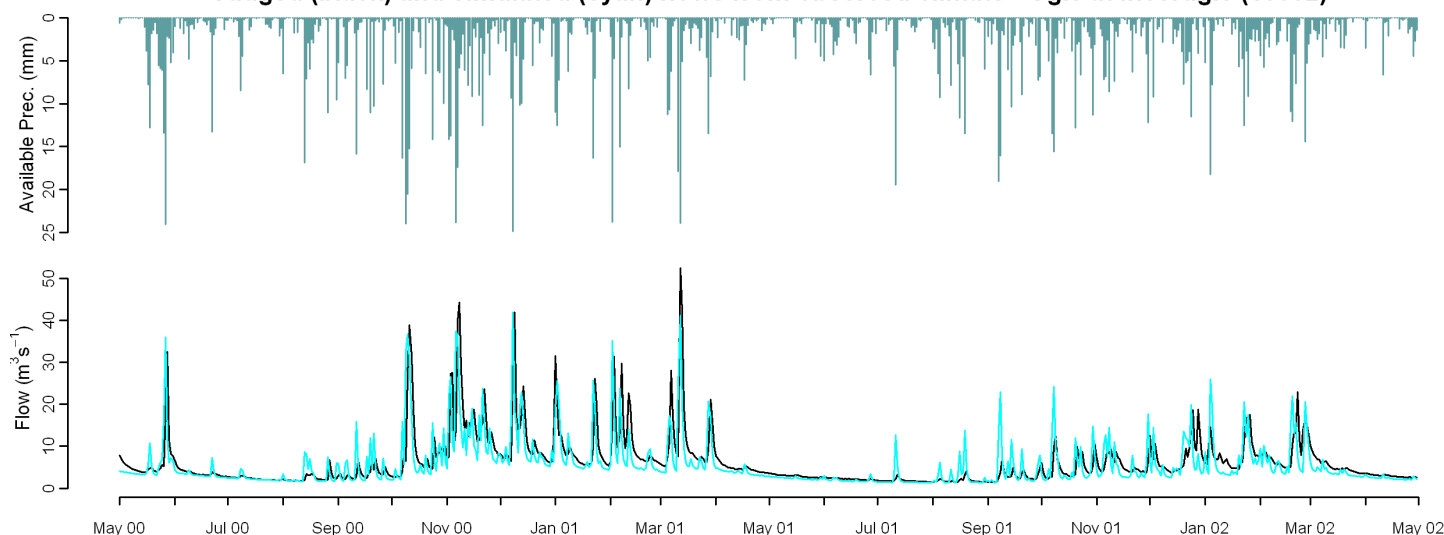
Model used: PDM

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-6.2	-11.0	-13.7	-16.4	-16.8	-15.6	4.5	10.1	20.4	27.5	4.2	-3.3	-11.5	0.28
Performance Band	1	2	2	2	2	2	1	2	2	2	1	1	2	3
FAO (1962-1991)	-0.8	-10.9	-11.7	-8.6	-9.4	-10.6	12.0	26.4	41.0	48.9	11.5	1.7	-9.9	0.24
	Q90	Q75	Q50	Q25	Q5	RP2		RP5	RP10	RP20				
MORECS (1971-2005)	-4.3	-9.6	-16.8	-13.6	9.1	-1.3		-5.9	-3.6	1.1				
Performance Band	1	1	2	1	1									
FAO (1962-1991)	4.9	0.6	-10.2	-7.3	14.2	-1.5		-6.7	-3.9	1.5				

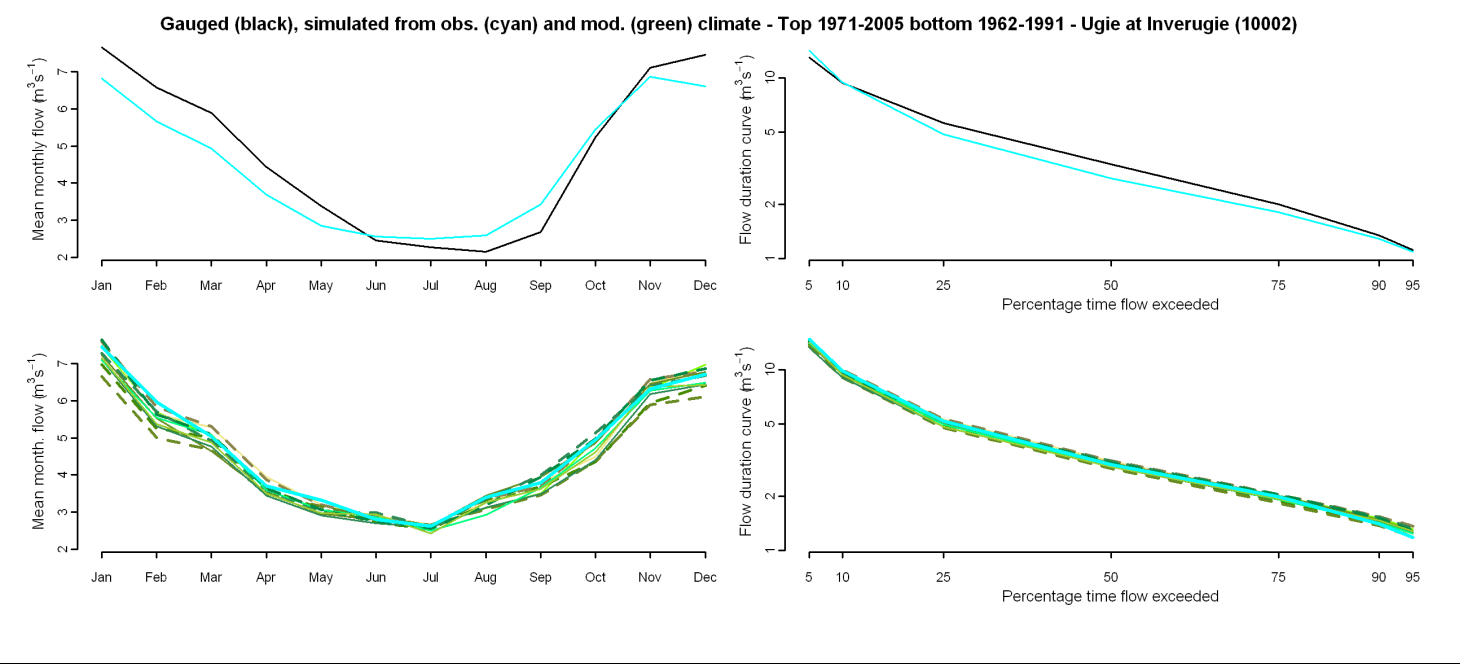
Gauged (black) and simulated (cyan) flows from observed climate - Ugie at Inverugie (10002)



Gauged (black) and simulated (cyan) flows from observed climate - Ugie at Inverugie (10002)



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

Climate change graphs for 2050s

