Catchment Fact Sheet   11001   Future Flows and Groundwater Levels

General Information

|			
River Name	Don	Catchment Area (km2)	1273
Station Name	Parkhill	SAAR (mm) 61-90	884
Station Number	11001	Mean Annual Rain (mm) 62-91	902
Grid Reference	NJ887141	Mean Annual PE (mm) 62-91	512
EA Region	SEPA-NE	Observed flow record	1969 to 2005
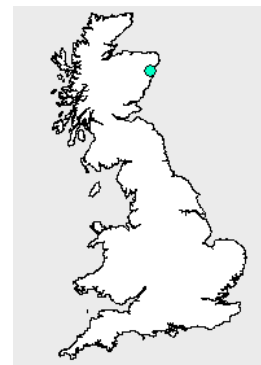
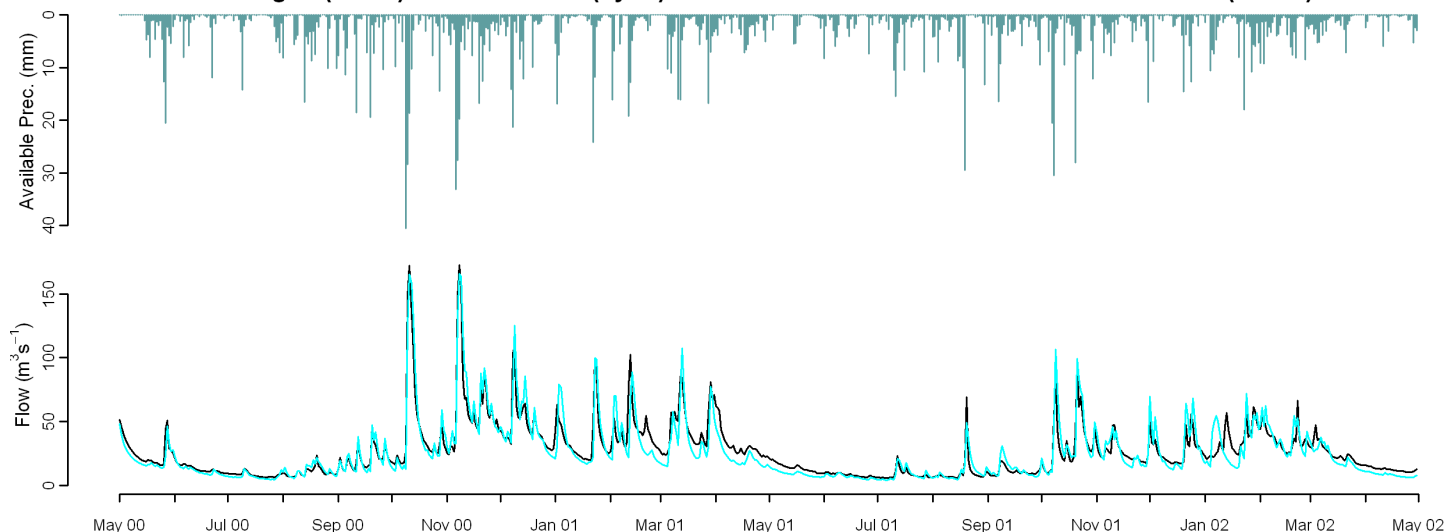## Observed Data   Comparison of gauged and simulated flow   Model used: CLASSIC

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-6.4	-1.6	-6.6	-9.5	-16.5	-21.0	-24.2	-21.9	-15.0	-3.8	6.7	4.9	2.9	0.80
Performance Band	1	1	1	1	2	2	2	2	2	1	1	1	1	1
FAO (1962-1991)	-0.4	3.1	-0.9	-2.1	-11.9	-16.0	-18.7	-16.9	-9.0	0.5	18.0	19.6	7.5	0.76

|	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20
MORECS (1971-2005)	-35.6	-23.9	-16.7	-4.5	9.3	-3.8	-9.3	-12.6	-15.3
Performance Band	2	2	2	1	1				
FAO (1962-1991)	-34.1	-17.7	-7.7	4.1	14.6	2.6	-0.5	-0.8	-0.4

Gauged (black) and simulated (cyan) flows from observed climate - Don at Parkhill (11001)
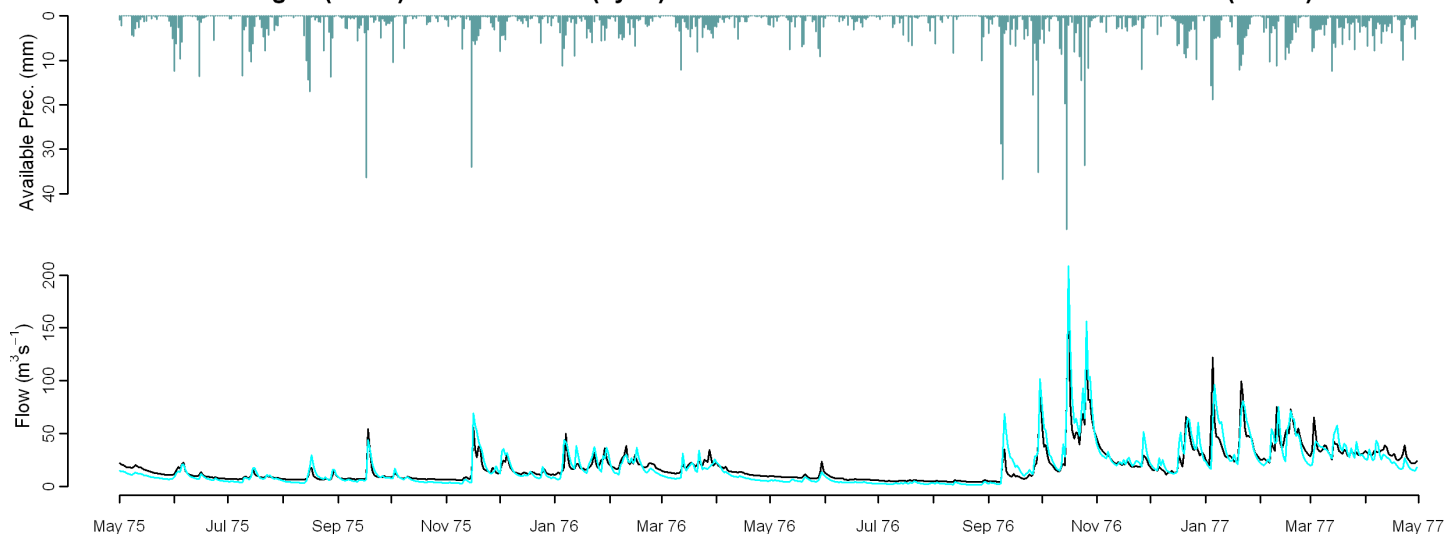
Gauged (black) and simulated (cyan) flows from observed climate - Don at Parkhill (11001)

Comparison of gauged and simulated flow (observed and modelled climate)

Gauged (black), simulated from obs. (cyan) and mod. (green) climate - Top 1971-2005 bottom 1962-1991 - Don at Parkhill (11001)
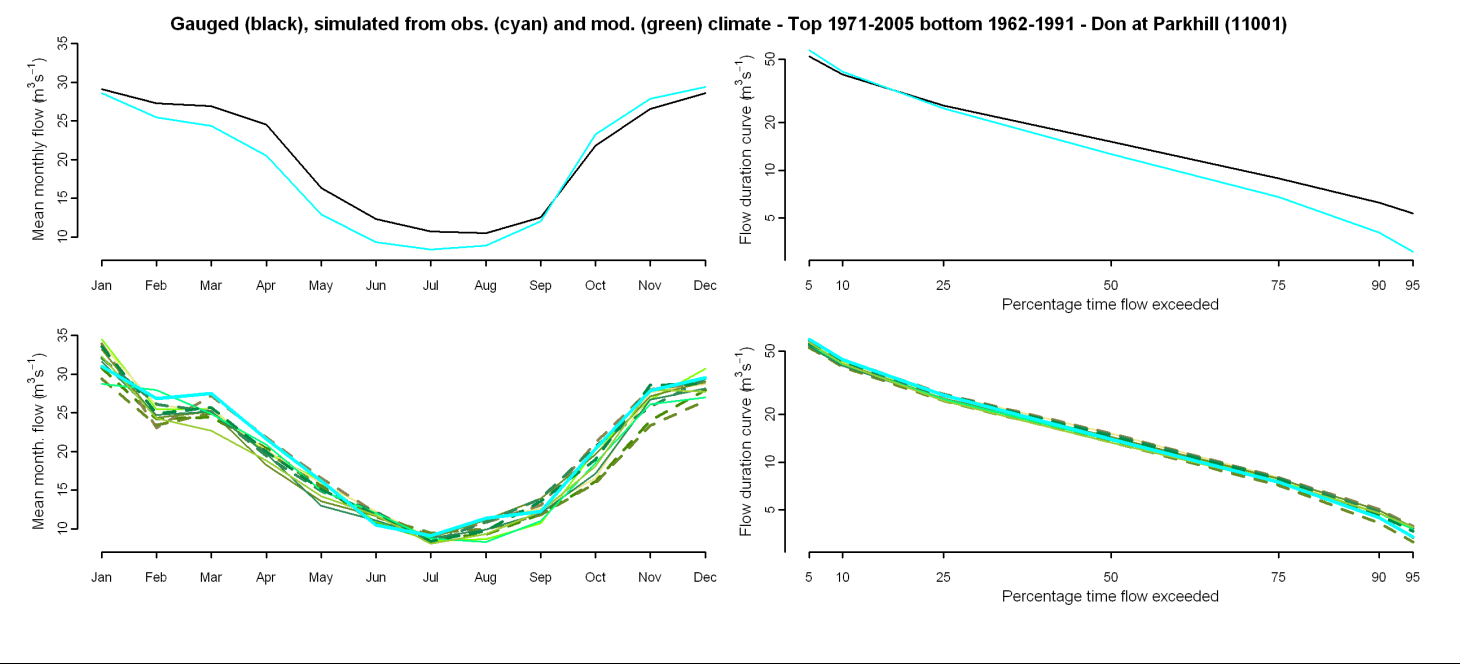
Percentage difference between flow simulated from observed climate and Future Flows Climate

	afgcx	afixa	afixc	afixh	afixi	afixj	afixk	afixl	afixm	afixo	afixq
Annual	-1	-7	-1	3	-5	-8	-5	-2	-5	-2	-5
January	14	-2	11	8	5	-1	2	4	-6	11	4
April	-9	-6	-5	1	-14	-8	-10	-5	-1	-7	-14
July	-7	-2	3	1	-3	-7	-1	-9	-4	-10	-11
October	2	-20	-17	12	-5	-19	-12	-4	-6	-7	-3
Q90	6	0	3	15	5	-8	6	6	4	0	7
Q75	1	-2	8	7	2	-7	-1	3	-2	1	-1
Q50	3	-4	10	9	0	-6	-1	6	-2	3	-5
Q25	-1	-6	1	2	-7	-8	-4	-1	-6	-1	-8
Q5	-6	-11	-9	-2	-8	-11	-9	-8	-9	-6	-6
RP2	-9	-7	-10	-2	-6	-6	-7	-7	-11	-6	-7
RP10	-15	-16	-13	-16	0	-18	-4	-11	-13	-10	-12

Climate change graphs for 2050s

Change between future (2040-2069) and control (1961-1990) simulated flow (green) - Don at Parkhill (11001)