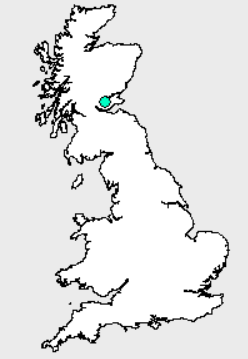
Catchment Fact Sheet 17015 Future Flows and Groundwater Levels

General Information

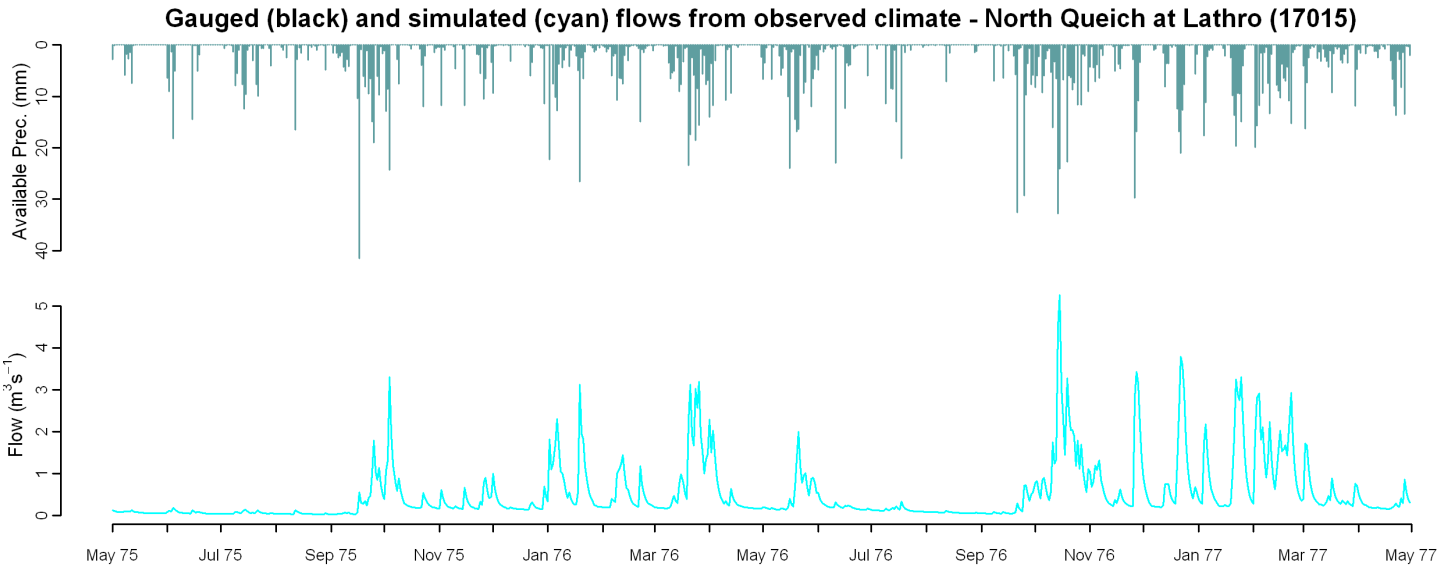
River Name	North Queich	Catchment Area (km2)	23
Station Name	Lathro	SAAR (mm) 61-90	1210
Station Number	17015	Mean Annual Rain (mm) 62-91	1235
Grid Reference	NO114042	Mean Annual PE (mm) 62-91	526
EA Region	SEPA-SE	Observed flow record	1987 to 2003

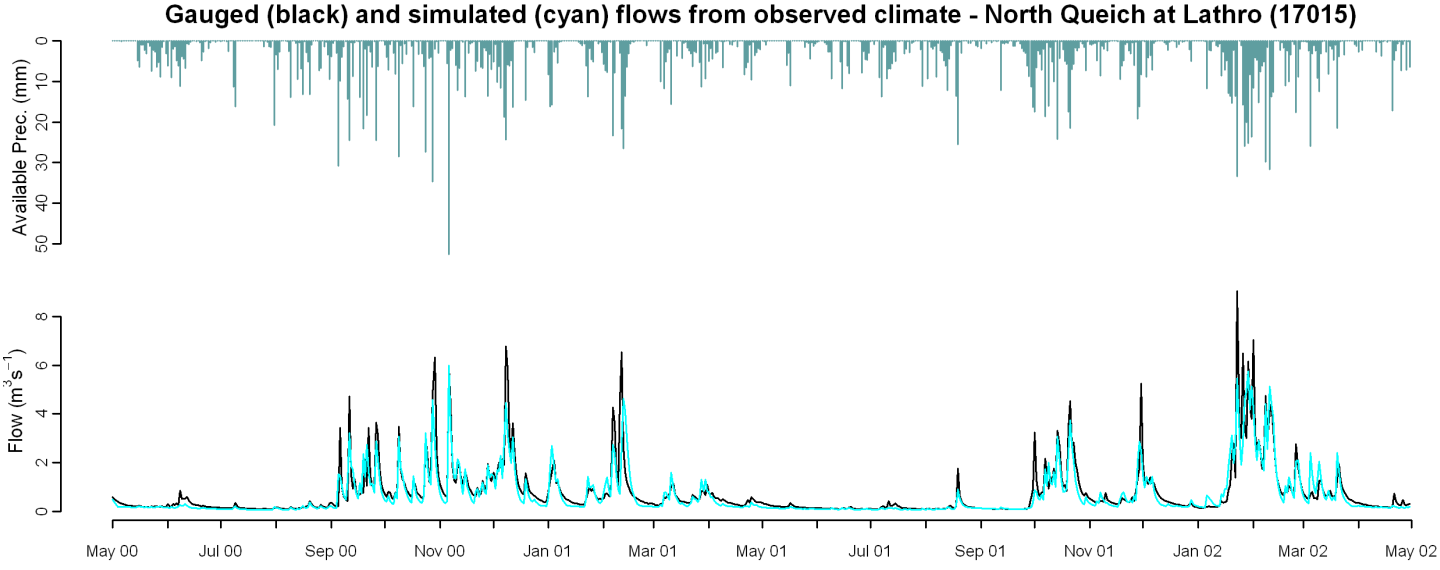


Observed Data Comparison of gauged and simulated flow Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-11.2	-13.8	-4.9	-12.3	-25.0	-29.0	-20.6	-17.6	-7.6	-18.9	-13.6	-10.6	-0.9	0.73
Performance Band	2	2	2	1	2	2	2	2	1	2	2	2	1	1
MORECS (1962-1991)	-10.3	-17.7	-13.7	-14.8	-24.7	-8.2	-14.8	-12.7	-9.0	-21.3	-9.3	-18.5	5.0	0.81

	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20
MORECS (1971-2005)	-11.8	-20.9	-34.7	-12.2	-4.4				
Performance Band	1	1	1	1	1				
MORECS (1962-1991)	3.3	-8.4	-31.3	-14.7	-10.3				





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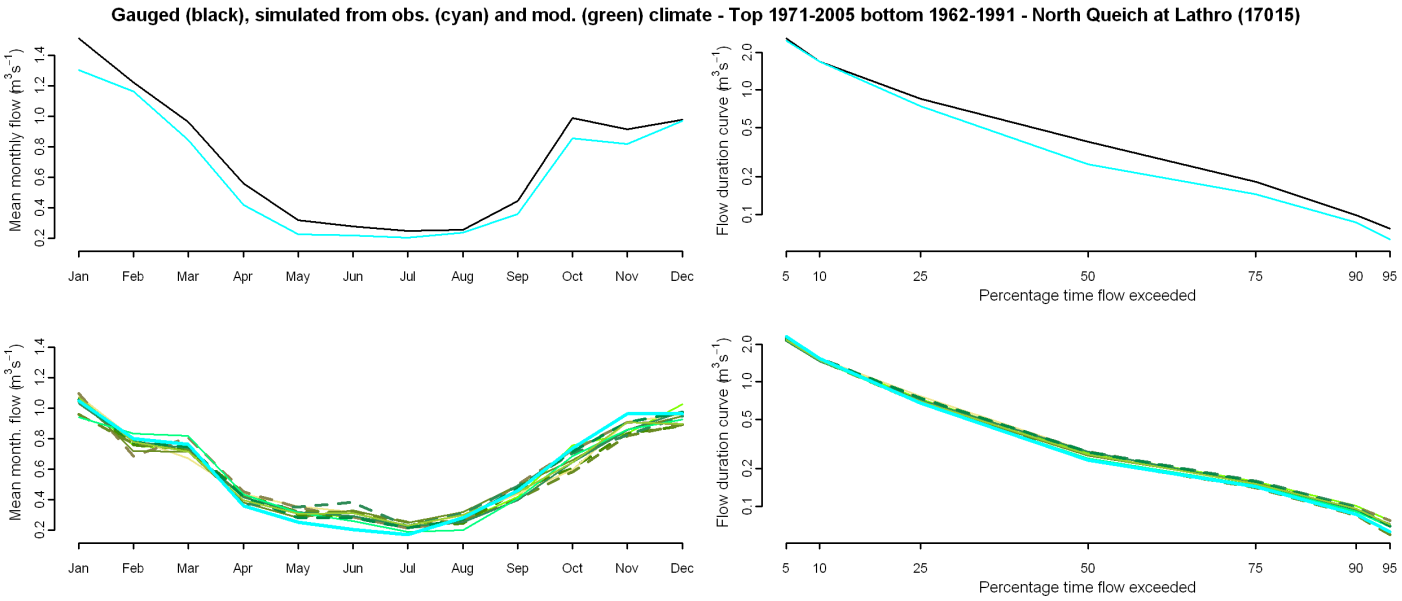
Comparison of gauged and simulated flow (observed and modelled climate)



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	1	3	7	0	-2	0	5	0	3	1
January	3	-3	4	3	1	-3	-4	1	-10	0	5
April	16	24	24	35	9	17	18	11	22	15	13
July	37	45	34	32	45	20	37	30	14	23	32
October	2	-14	-22	2	-11	-17	-3	-10	-4	-2	-7
Q90	18	2	1	18	2	-4	5	13	5	5	8
Q75	10	3	5	13	4	-4	5	11	2	6	4
Q50	16	3	16	21	7	0	16	16	4	14	10
Q25	8	3	12	12	-1	1	8	10	0	10	3
Q5	-5	-6	-7	-2	-4	-6	-8	-1	-4	-6	-6
RP2	-8	-4	-7	-2	8	-3	-6	7	7	-3	3
RP10	-6	-5	-7	-12	9	-4	-3	2	8	-3	0

Climate change graphs for 2050s