Catchment Fact Sheet 41011 Future Flows and Groundwater Levels

General Information

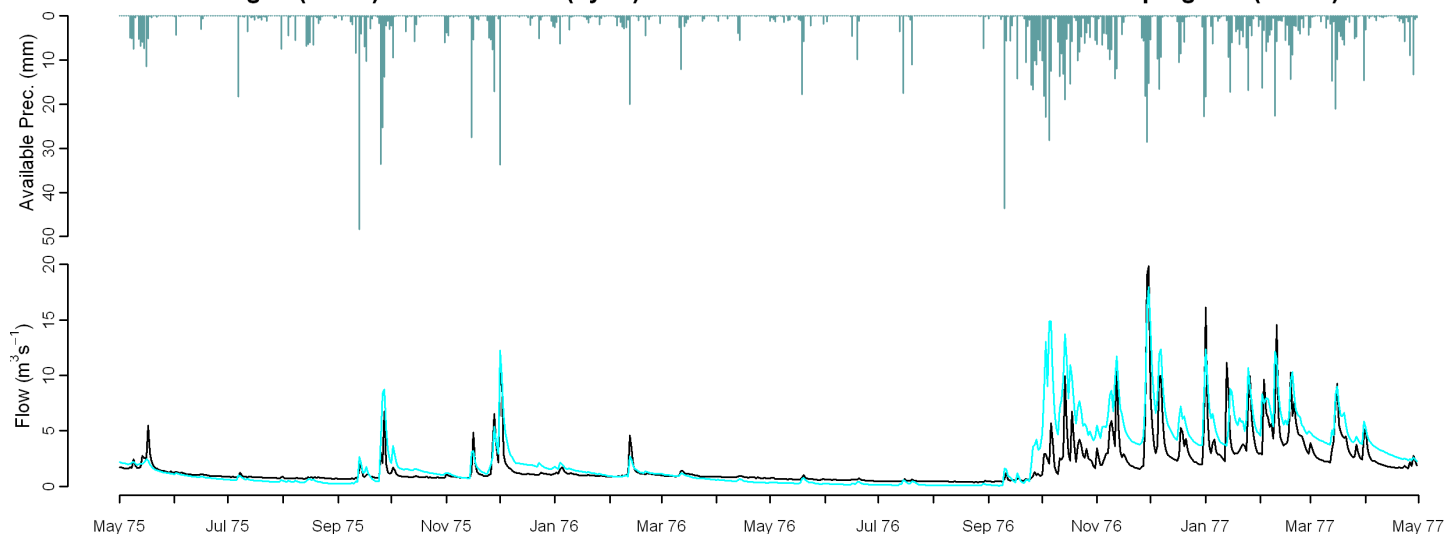|			
River Name	Rother	Catchment Area (km2)	154
Station Name	Iping Mill	SAAR (mm) 61-90	920
Station Number	41011	Mean Annual Rain (mm) 62-91	924
Grid Reference	SU852229	Mean Annual PE (mm) 62-91	570
EA Region	EA-SE	Observed flow record	1966 to 2005

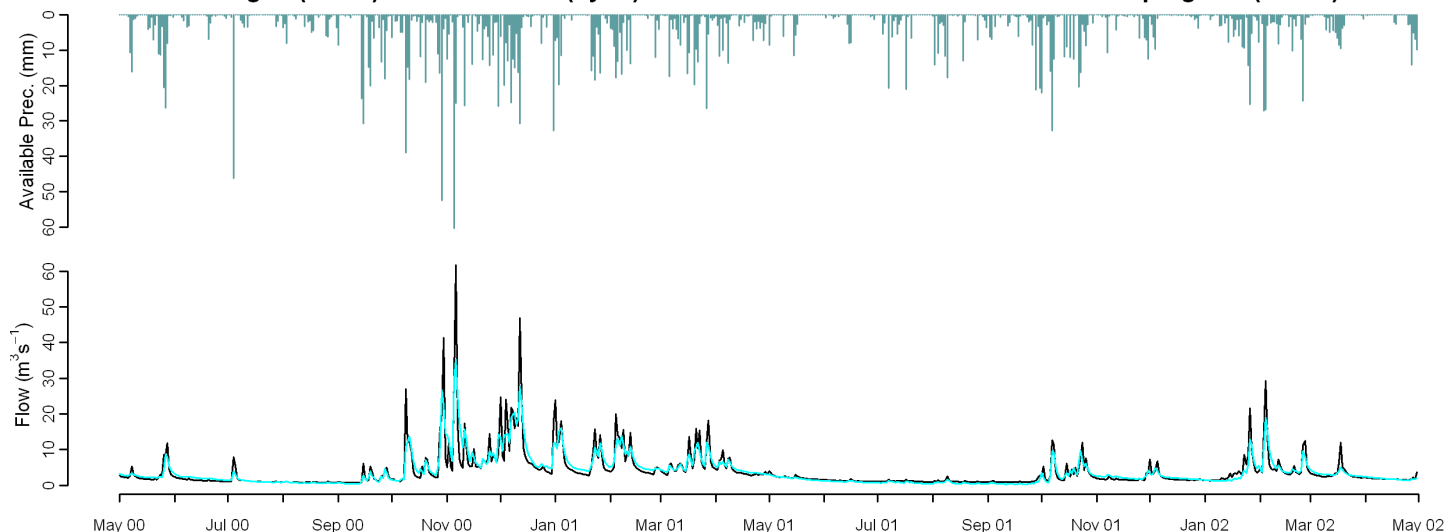## Observed Data Comparison of gauged and simulated flow Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	6.2	16.9	17.2	8.9	-3.0	-13.2	-20.9	-33.0	-34.9	-23.0	9.7	19.2	18.5	0.73
Performance Band	1	2	2	2	1	2	2	3	3	2	1	1	2	1
MORECS (1962-1991)	9.3	19.8	22.8	14.4	5.1	-14.7	-18.2	-27.8	-33.2	-16.8	13.3	17.4	23.5	0.67

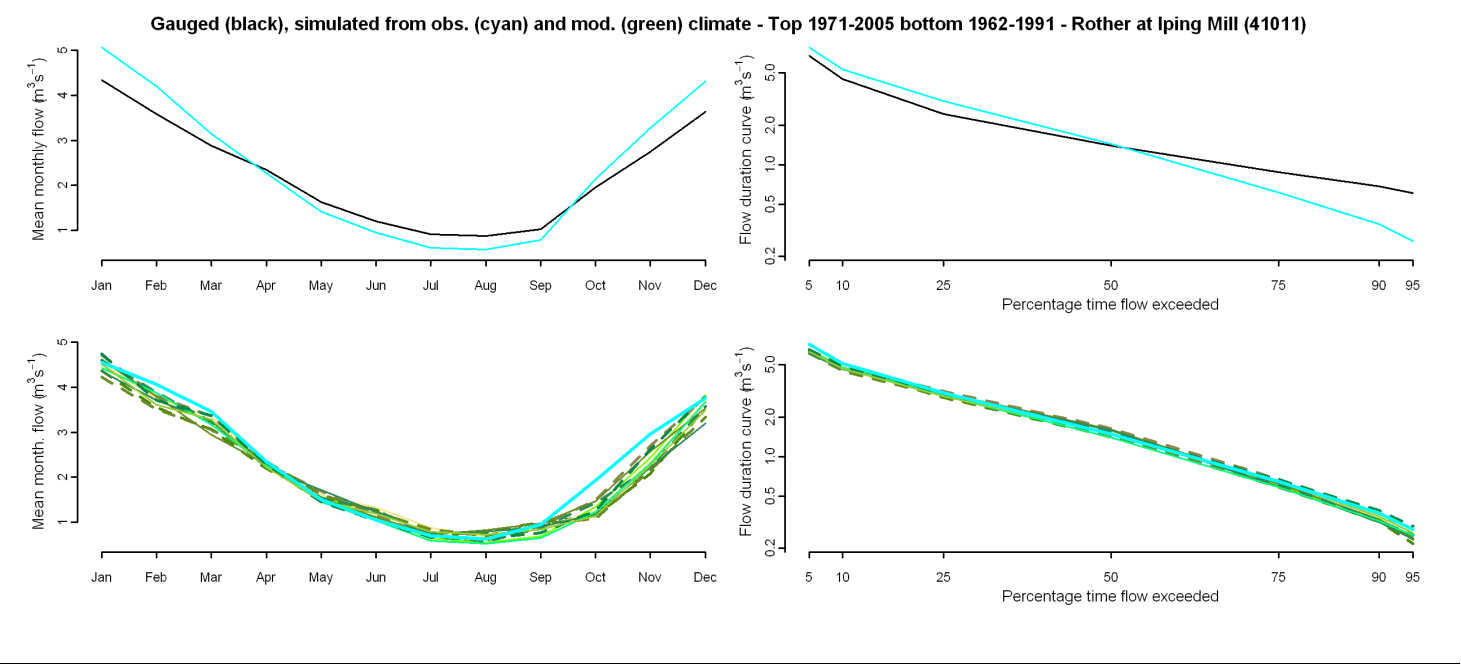|	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20
MORECS (1971-2005)	-48.5	-29.4	2.9	25.7	16.1				
Performance Band	1	1	2	1	1				
MORECS (1962-1991)	-49.1	-26.6	8.4	29.3	16.9				

Gauged (black) and simulated (cyan) flows from observed climate - Rother at Iping Mill (41011)

Gauged (black) and simulated (cyan) flows from observed climate - Rother at Iping Mill (41011)

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 - Rother at Iping Mill (41011)

Percentage difference between flow simulated from observed climate and Future Flows Climate

	afgcx	afixa	afixc	afixh	afixi	afixj	afixk	afixl	afixm	afixo	afixq
Annual	-5	-8	-4	-1	-5	-8	-8	-3	-9	-4	-7
January	-1	-7	2	4	2	-6	-6	3	-4	7	1
April	-3	-7	5	2	-2	1	-2	3	0	-2	-4
July	-6	4	28	-3	-1	20	7	5	-12	-6	8
October	-28	-39	-36	-15	-32	-44	-38	-29	-36	-35	-39
Q90	-9	-15	-3	0	-14	-14	-14	-11	-13	2	-6
Q75	-7	-9	-3	6	-9	-12	-9	-2	-10	1	-3
Q50	4	-5	3	14	3	-2	8	8	-6	0	-1
Q25	-2	-8	0	6	-1	-7	-2	2	-4	-1	-6
Q5	-12	-11	-11	-8	-12	-15	-15	-9	-9	-9	-12
RP2	-15	-13	-16	-14	-14	-8	-17	-13	-17	-4	-9
RP10	-6	-4	-8	-8	-11	9	-17	-23	-17	7	-1

Climate change graphs for 2050s

Change between future (2040-2069) and control (1961-1990) simulated flow (green) - Rother at Iping Mill (41011)