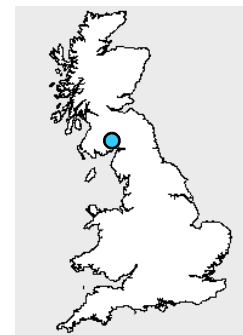


### General Information

Borehole Name	Newbridge	Grid Reference	NX 95157885
Borehole ID	NX97/2	Mean Annual Rainfall (mm)	1163
Principal Aquifer	Permo-Triassic Sandstone	Period of observed level data	1993 - 2005
EA Region	SEPA West		



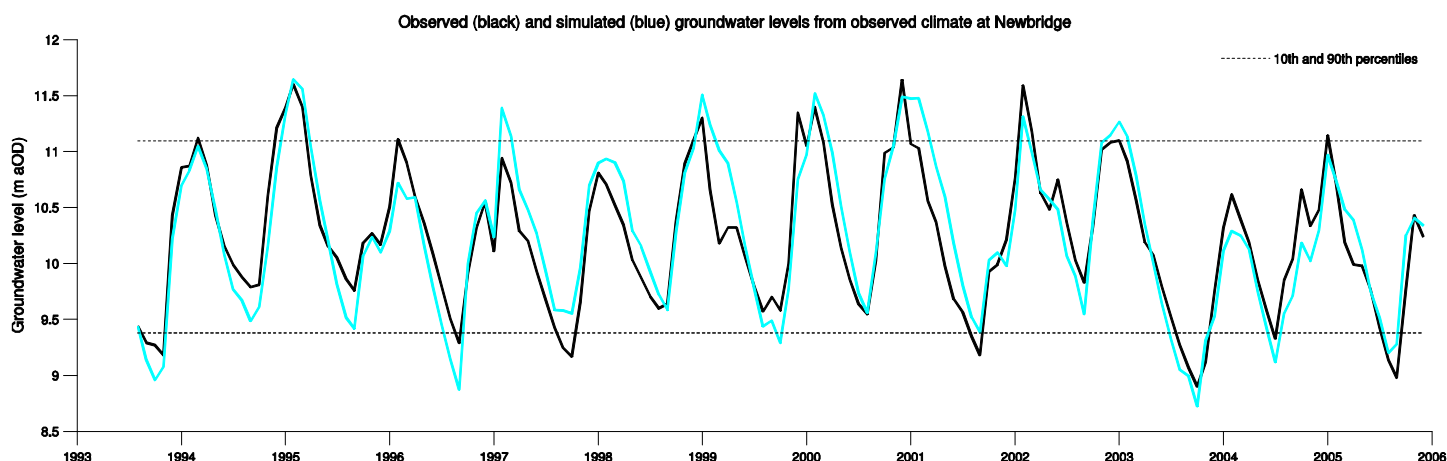
### Observed Data

### Comparison of observed and simulated levels (m)

### Model used: R-Groundwater

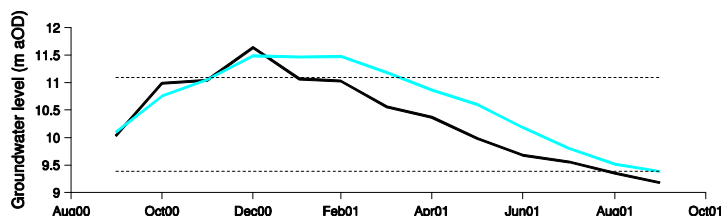
	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	NSE	RMSE
1993 - 2005	0.02	-0.02	0.09	0.20	0.25	0.16	0.05	-0.05	-0.09	-0.10	-0.06	-0.03	-0.13	0.82	0.27
Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

	L90	L75	L50	L25	L10		%
1993 - 2005	0.02	-0.06	0.05	0.09	0.05	Error (sim-obs) in range (max-min)	6.49
Performance	1	1	1	1	1	Performance	1

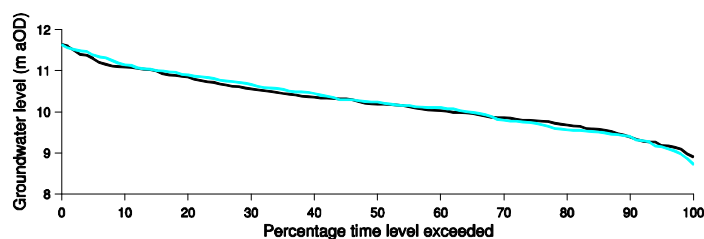
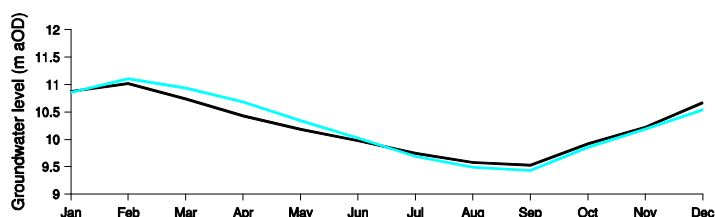


### Comparison of observed and simulated levels (observed climate)

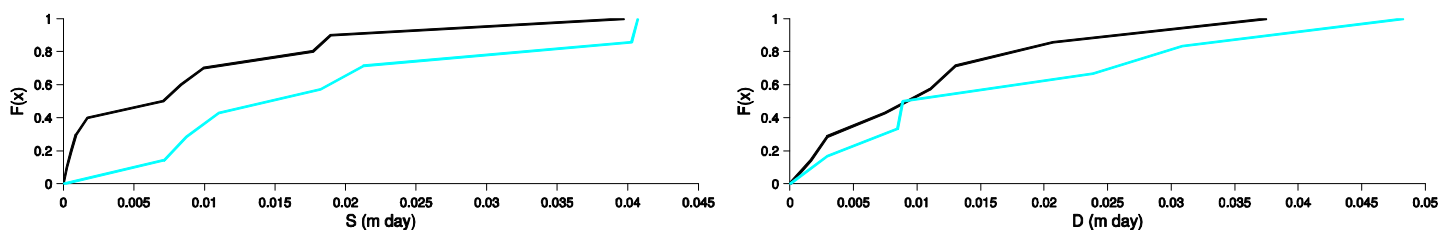
Selected observed (black) and simulated (blue) groundwater levels at Newbridge



Statistics from observed (black) and simulated (blue) groundwater levels from observed climate at Newbridge

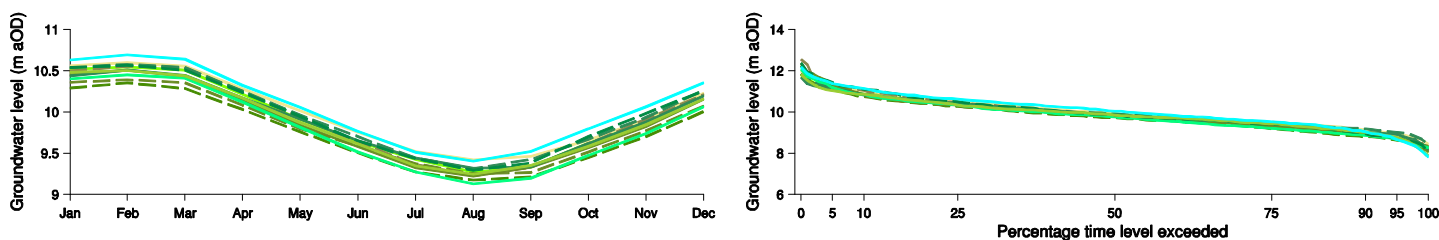


Surplus (S) and Deficit (D) distributions from observed (black) and simulated (blue) groundwater levels from observed climate at Newbridge



### Difference (m) between levels simulated from observed climate and Future Flows Climate

Comparison of groundwater levels simulated using observed climate (blue) and Future Flows Climate (green)



(m)	afgcx	afixa	afixc	afixh	afixi	afixj	afixk	afixl	afixm	afixo	afixq
Annual	-0.13	-0.30	-0.06	-0.14	-0.19	-0.24	-0.15	-0.09	-0.26	-0.10	-0.17
Jan	-0.11	-0.34	-0.07	-0.13	-0.18	-0.27	-0.19	-0.09	-0.23	-0.09	-0.15
Feb	-0.15	-0.34	-0.10	-0.14	-0.19	-0.30	-0.19	-0.12	-0.25	-0.13	-0.19
Mar	-0.13	-0.35	-0.08	-0.11	-0.21	-0.29	-0.19	-0.10	-0.23	-0.13	-0.20
Apr	-0.11	-0.29	-0.04	-0.07	-0.19	-0.24	-0.15	-0.07	-0.20	-0.08	-0.15
May	-0.15	-0.30	-0.04	-0.12	-0.22	-0.26	-0.15	-0.09	-0.25	-0.11	-0.19
Jun	-0.12	-0.26	-0.01	-0.13	-0.19	-0.17	-0.11	-0.07	-0.25	-0.11	-0.15
Jul	-0.09	-0.24	0.01	-0.15	-0.19	-0.14	-0.07	-0.07	-0.24	-0.07	-0.17
Aug	-0.14	-0.23	0.01	-0.18	-0.18	-0.16	-0.08	-0.10	-0.28	-0.11	-0.16
Sep	-0.20	-0.31	-0.06	-0.19	-0.20	-0.26	-0.19	-0.10	-0.32	-0.14	-0.17
Oct	-0.17	-0.35	-0.14	-0.18	-0.22	-0.28	-0.18	-0.12	-0.32	-0.09	-0.21
Nov	-0.18	-0.36	-0.15	-0.15	-0.24	-0.29	-0.19	-0.13	-0.32	-0.08	-0.22
Dec	-0.14	-0.35	-0.13	-0.15	-0.20	-0.28	-0.16	-0.09	-0.29	-0.10	-0.20

### Climate change graphs for 2050s

Change between future (2041–2070) and control (1961–1990) simulated levels at Newbridge

