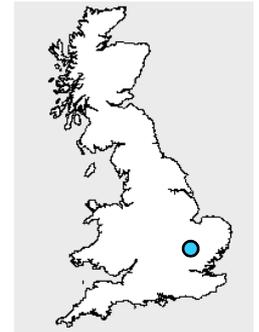


### General Information

Borehole Name	Therfield Rectory	Grid Reference	TL 33553697
Borehole ID	TL33/4	Mean Annual Rainfall (mm)	582
Principal Aquifer	Chalk Group	Period of observed level data	1961 - 2005
EA Region	Thames		



### Observed Data

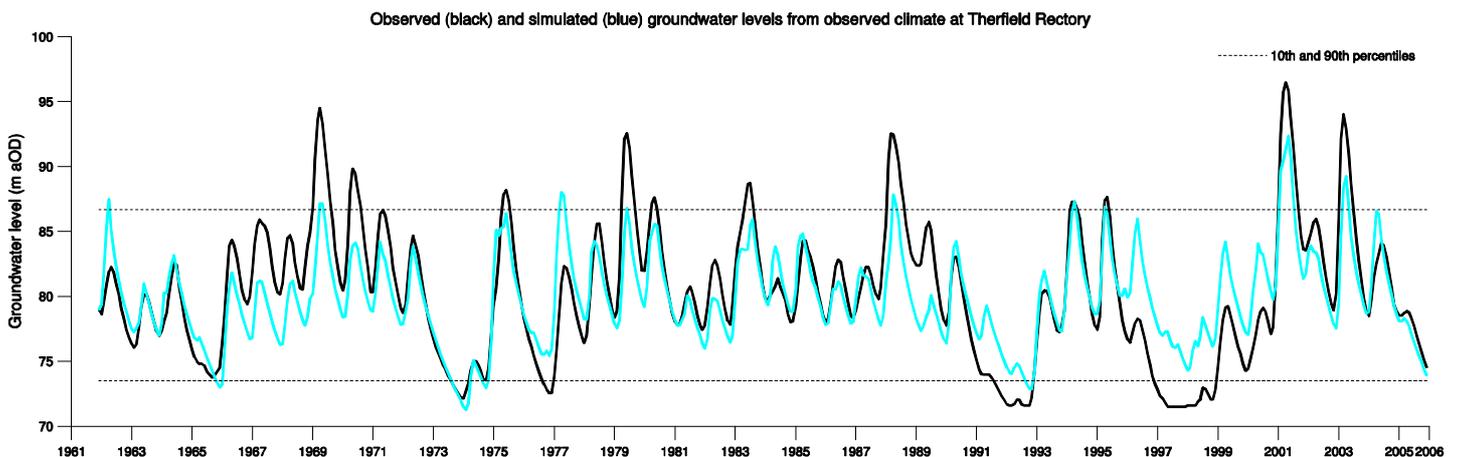
### Comparison of observed and simulated levels (m)

### Model used: R-Groundwater

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	NSE	RMSE
1961 - 2005	-0.35	-0.24	-0.27	-0.26	-0.08	-0.38	-0.65	-0.79	-0.65	-0.38	-0.20	-0.14	-0.18	0.65	2.99
Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

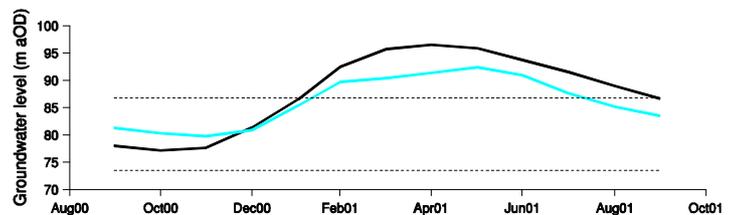
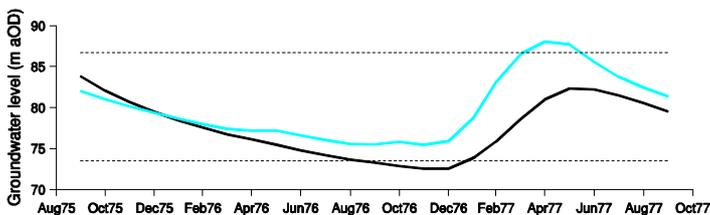
  

	L90	L75	L50	L25	L10		%
1961 - 2005	2.18	0.63	-0.43	-1.39	-2.22	Error (sim-obs) in range (max-min)	-15.54
Performance	1	1	1	1	1	Performance	2

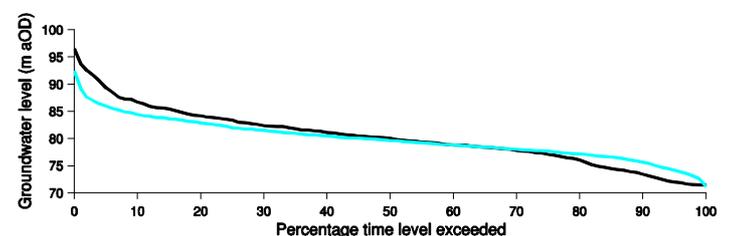
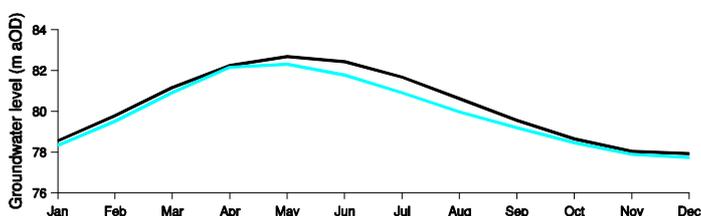


### Comparison of observed and simulated levels (observed climate)

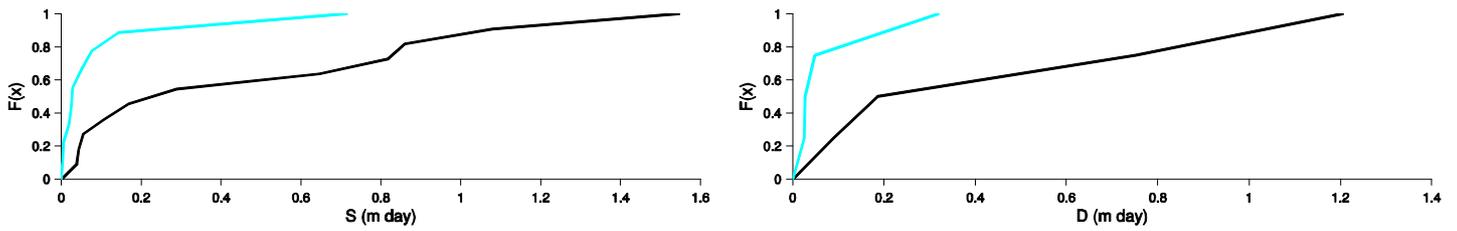
Selected observed (black) and simulated (blue) groundwater levels at Therfield Rectory



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

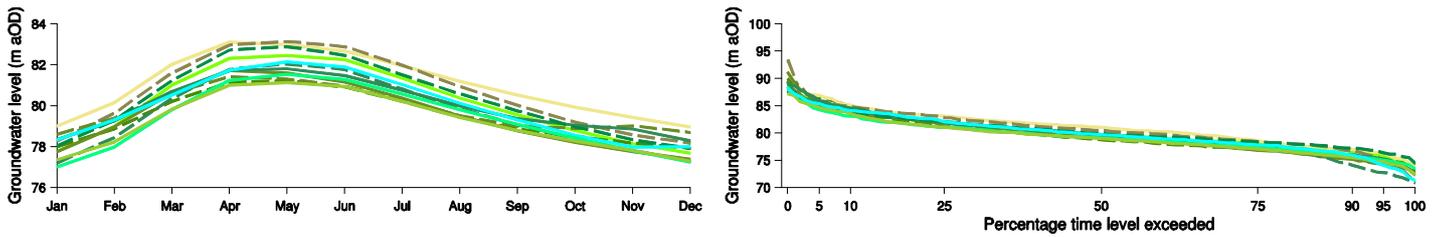


Surplus (S) and Deficit (D) distributions from observed (black) and simulated (blue) groundwater levels from observed climate at Therfield Rectory



### 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	0.15	-0.45	1.09	0.71	-0.42	-0.10	0.07	-0.34	-0.59	0.39	-0.71
Jan	-0.56	-0.33	0.68	-0.04	-0.57	0.28	0.02	-1.14	-1.31	-0.29	-0.95
Feb	-0.31	-0.44	0.86	0.32	-0.33	0.08	-0.04	-0.87	-1.33	-0.02	-1.07
Mar	0.48	-0.32	1.49	1.08	0.11	0.09	0.17	-0.18	-0.72	0.69	-0.70
Apr	0.56	-0.61	1.35	1.21	-0.03	-0.34	-0.03	0.02	-0.52	0.96	-0.73
May	0.33	-0.92	0.84	0.99	-0.55	-0.85	-0.33	-0.10	-0.61	0.73	-1.00
Jun	0.37	-0.99	0.79	0.99	-0.74	-0.95	-0.42	-0.11	-0.60	0.57	-0.93
Jul	0.32	-0.83	0.93	0.94	-0.66	-0.76	-0.28	-0.23	-0.46	0.47	-0.83
Aug	0.26	-0.67	1.07	0.81	-0.63	-0.60	-0.11	-0.26	-0.32	0.44	-0.69
Sep	0.25	-0.44	1.21	0.72	-0.54	-0.31	0.07	-0.24	-0.20	0.44	-0.51
Oct	0.24	-0.07	1.38	0.64	-0.37	0.32	0.48	-0.20	-0.15	0.41	-0.30
Nov	0.16	0.19	1.44	0.57	-0.21	1.03	0.88	-0.18	-0.17	0.35	-0.15
Dec	-0.32	-0.08	0.97	0.17	-0.60	0.70	0.31	-0.71	-0.75	-0.08	-0.70

### Climate change graphs for 2050s

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

