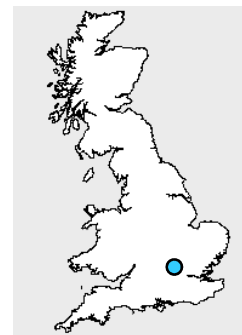


Catchment Fact Sheet SU78/45A Future Flows and Groundwater Levels

General Information

Borehole Name	Stonor Park	Grid Reference	SU 74188925
Borehole ID	SU78/45A	Mean Annual Rainfall (mm)	825
Principal Aquifer	Chalk Group	Period of observed level data	1962 - 2005
EA Region	Thames		



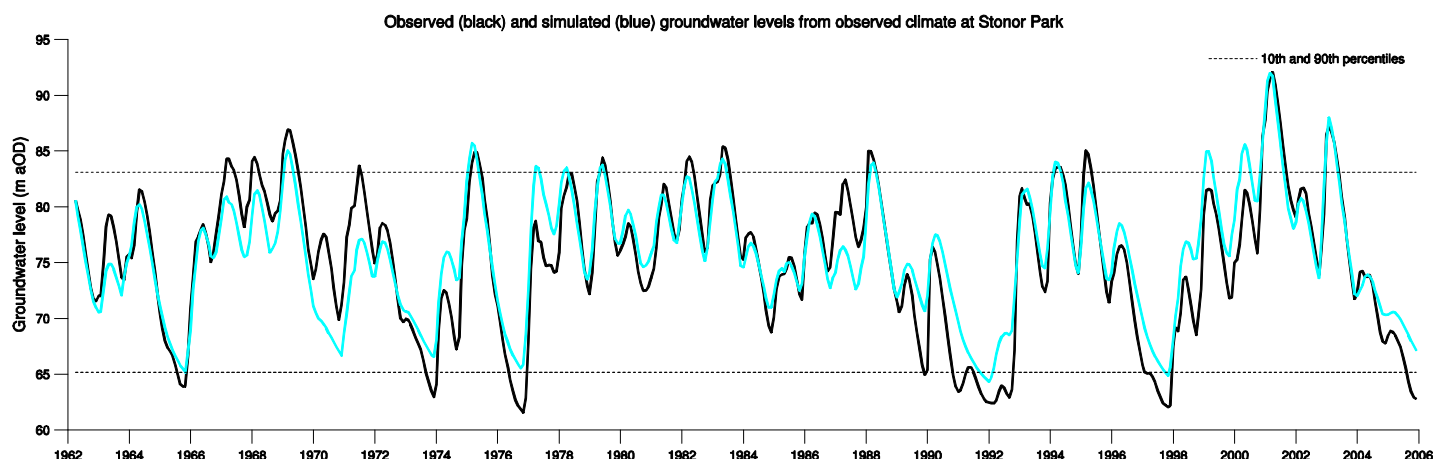
Observed Data

Comparison of observed and simulated levels (m)

Model used: R-Groundwater

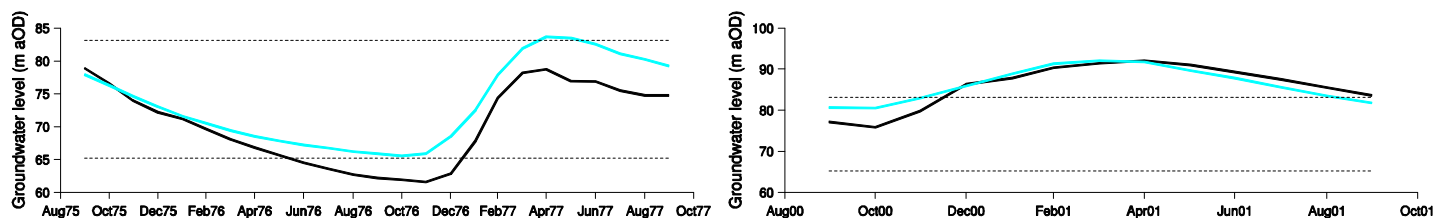
	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	NSE	RMSE
1962 - 2005	0.37	0.47	0.33	0.33	0.21	-0.13	-0.22	-0.17	0.14	0.54	0.90	1.08	1.01	0.81	2.79
Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

	L90	L75	L50	L25	L10		%
1962 - 2005	3.02	0.81	-0.09	-0.69	-0.54	Error (sim-obs) in range (max-min)	-9.35
Performance	1	1	1	1	1	Performance	1

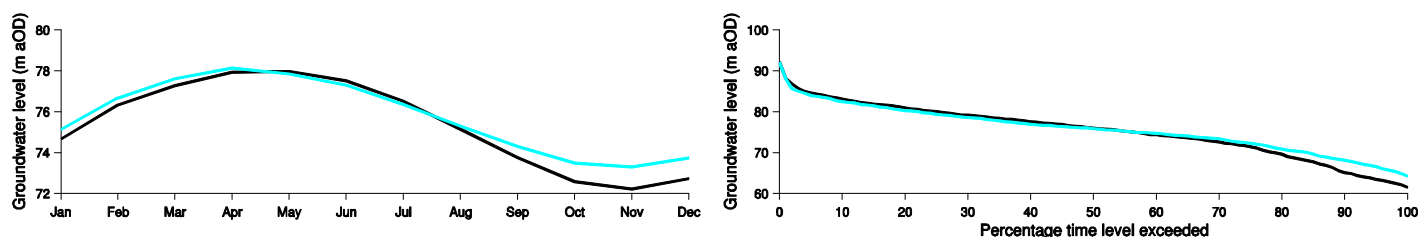


Comparison of observed and simulated levels (observed climate)

Selected observed (black) and simulated (blue) groundwater levels at Stonor Park

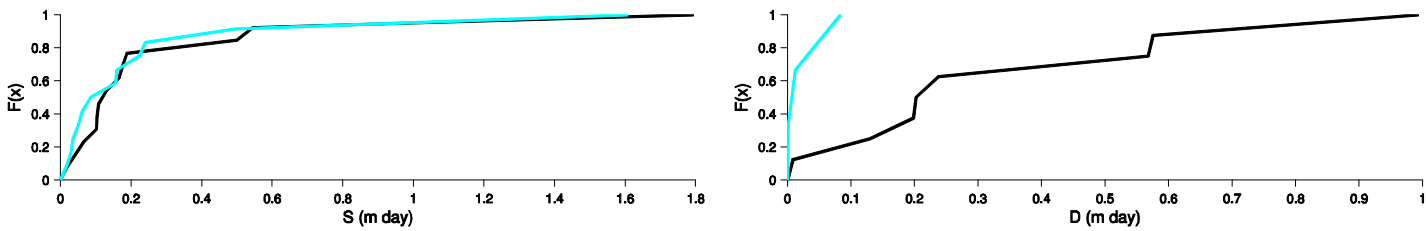


Statistics from observed (black) and simulated (blue) groundwater levels from observed climate at Stonor Park



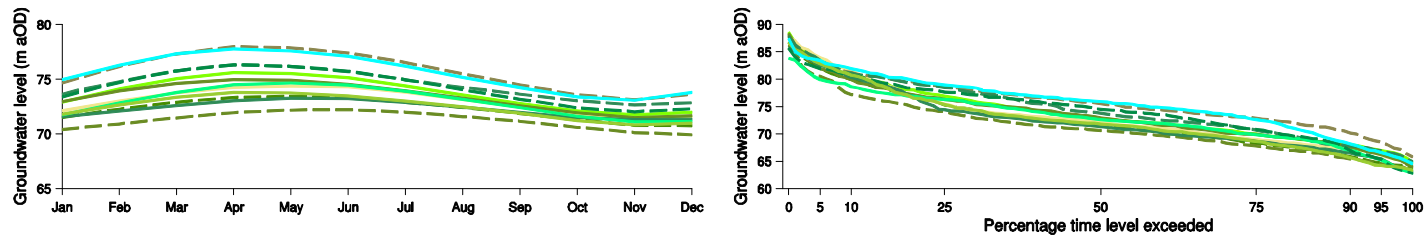
Catchment Fact Sheet SU78/45A Future Flows and Groundwater Levels

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



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	-1.83	-3.35	-2.57	0.10	-2.17	-4.38	-3.30	-1.10	-2.62	-1.34	-3.14
Jan	-2.02	-3.45	-2.82	-0.28	-2.00	-4.56	-3.38	-1.34	-3.21	-1.55	-3.14
Feb	-2.20	-4.02	-3.30	-0.11	-2.34	-5.38	-4.18	-1.50	-3.43	-1.60	-3.62
Mar	-2.26	-4.44	-3.58	-0.01	-2.71	-5.85	-4.71	-1.56	-3.53	-1.57	-3.97
Apr	-2.17	-4.48	-3.52	0.17	-2.80	-5.86	-4.76	-1.49	-3.30	-1.49	-4.00
May	-2.06	-4.15	-3.21	0.28	-2.69	-5.42	-4.31	-1.44	-2.91	-1.43	-3.84
Jun	-1.97	-3.78	-2.80	0.29	-2.53	-4.89	-3.83	-1.40	-2.61	-1.37	-3.62
Jul	-1.81	-3.30	-2.36	0.30	-2.23	-4.23	-3.32	-1.24	-2.30	-1.25	-3.22
Aug	-1.63	-2.77	-2.01	0.30	-1.91	-3.61	-2.74	-0.96	-2.01	-1.14	-2.70
Sep	-1.45	-2.36	-1.76	0.24	-1.65	-3.10	-2.25	-0.59	-1.82	-1.05	-2.33
Oct	-1.32	-2.15	-1.60	0.15	-1.49	-2.81	-1.92	-0.39	-1.77	-1.05	-2.19
Nov	-1.35	-2.27	-1.68	0.03	-1.60	-2.96	-1.77	-0.43	-1.97	-1.08	-2.25
Dec	-1.82	-3.05	-2.27	-0.23	-2.14	-3.89	-2.46	-0.98	-2.67	-1.50	-2.82

Climate change graphs for 2050s

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

