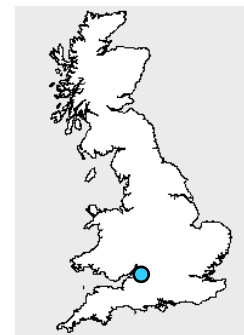


Catchment Fact Sheet ST88/62A Future Flows and Groundwater Levels

General Information

Borehole Name	Didmarton	Grid Reference	ST 82758743
Borehole ID	ST88/62A	Mean Annual Rainfall (mm)	851
Principal Aquifer	Middle Jurassic	Period of observed level data	1978 - 2005
EA Region	South West		



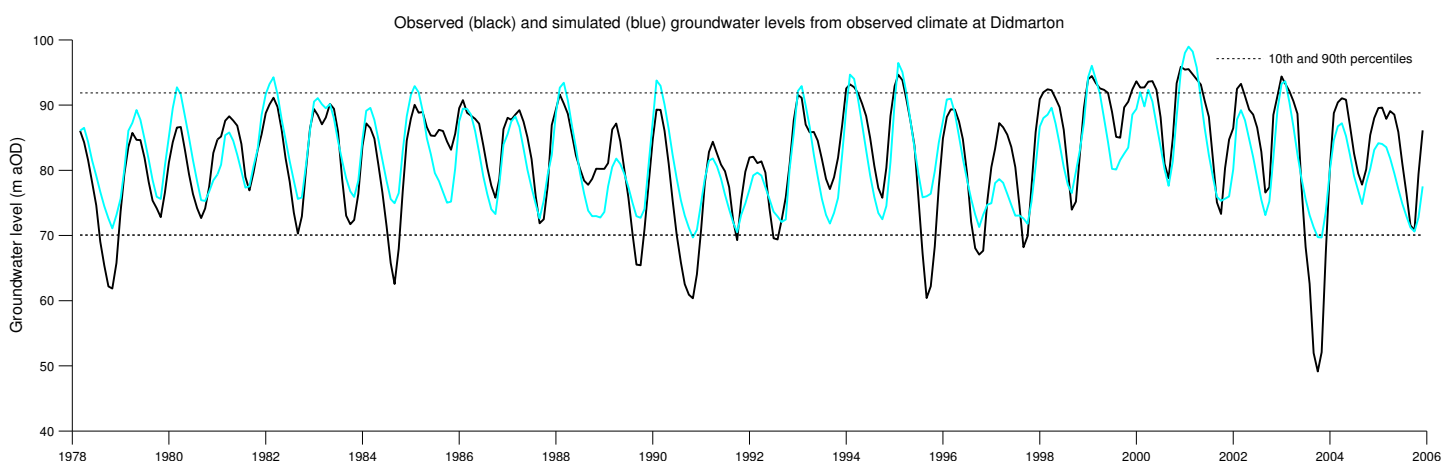
Observed Data

Comparison of observed and simulated levels (m)

Model used: R-Groundwater

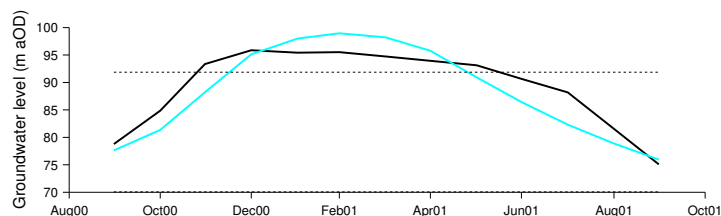
	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	NSE	RMSE
1978 - 2005	-0.28	-1.01	-0.03	-0.02	-0.84	-1.81	-1.99	-1.39	0.60	2.41	1.96	0.09	-1.31	0.65	5.02
Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	2	

	L90	L75	L50	L25	L10		%
1978 - 2005	3.07	-1.37	-3.30	-1.06	-0.77	Error (sim-obs) in range (max-min)	-37.36
Performance	1	1	1	1	1	Performance	3

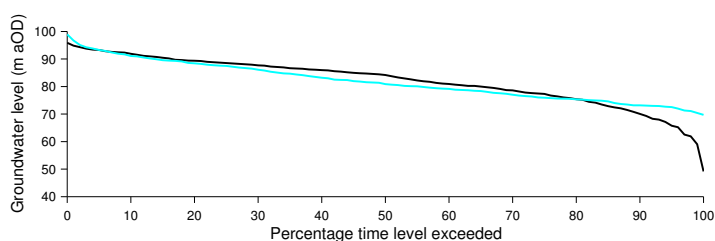
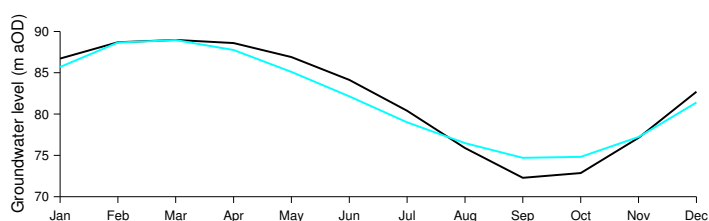


Comparison of observed and simulated levels (observed climate)

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



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

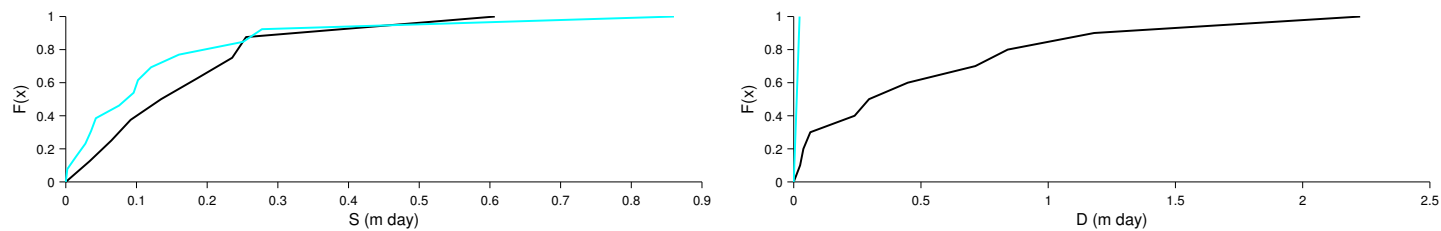


Catchment Fact Sheet

ST88/62A

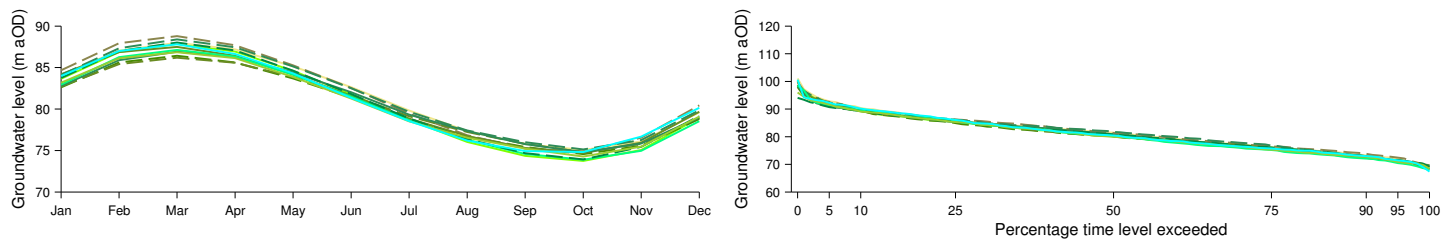
Future Flows and Groundwater Levels

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



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	-0.25	-0.53	0.52	0.73	0.03	-0.37	-0.10	0.64	-0.53	-0.07	-0.42
Jan	-0.34	-1.37	0.15	0.68	0.20	-1.26	-1.21	0.13	-1.05	-0.23	-0.82
Feb	-0.13	-1.37	0.05	0.94	-0.12	-1.57	-1.09	0.34	-0.74	-0.02	-0.86
Mar	0.07	-1.39	0.18	0.98	-0.32	-1.62	-0.90	0.59	-0.68	0.21	-0.95
Apr	0.30	-1.03	0.55	1.05	-0.22	-1.06	-0.39	0.81	-0.31	0.43	-0.50
May	0.32	-0.60	0.85	0.98	-0.11	-0.42	0.11	0.85	-0.17	0.32	-0.42
Jun	0.43	0.03	1.29	1.18	0.22	0.27	0.67	1.15	0.14	0.47	-0.09
Jul	0.12	0.23	1.27	0.90	0.29	0.58	0.77	1.12	0.11	0.31	-0.04
Aug	-0.16	0.49	1.14	0.64	0.55	1.04	1.15	1.22	0.10	0.19	0.34
Sep	-0.58	0.50	0.84	0.31	0.39	0.87	0.84	1.08	-0.34	-0.24	0.31
Oct	-1.08	-0.25	0.24	0.06	-0.14	-0.02	-0.02	0.30	-0.93	-0.89	-0.55
Nov	-1.61	-1.12	-0.58	-0.13	-0.73	-0.88	-0.83	-0.42	-1.71	-1.23	-1.21
Dec	-1.18	-1.35	-0.53	0.30	-0.47	-1.16	-1.17	-0.30	-1.61	-0.97	-1.05

Climate change graphs for 2050s

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

