

General Information

Borehole Name	Llanfair	Grid Reference	SJ 13745556
Borehole ID	SJ15/13	Mean Annual Rainfall (mm)	833
Principal Aquifer	Sherwood Sandstone Group	Period of observed level data	1972 - 2005
EA Region	Wales		

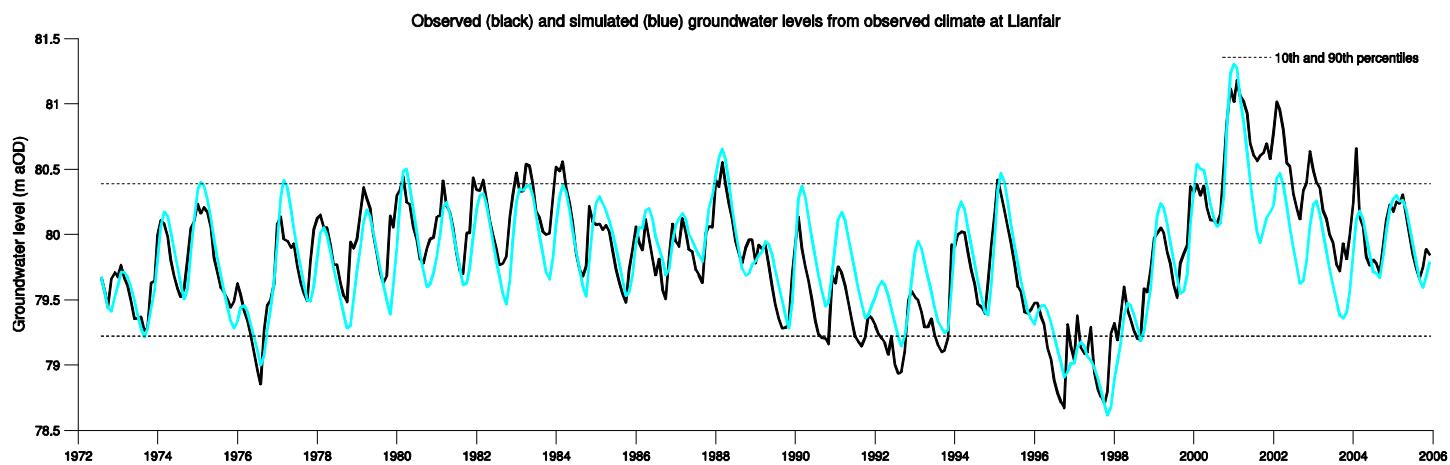


Observed Data

Comparison of observed and simulated levels (m)

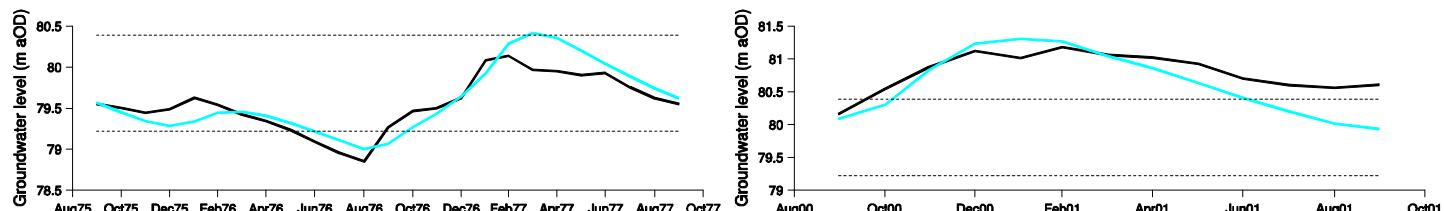
Model used: R-Groundwater

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	NSE	RMSE
1972 - 2005	-0.01	-0.10	0.00	0.08	0.09	0.11	0.08	0.08	0.05	-0.02	-0.13	-0.22	-0.20	0.72	0.24
Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
															%
1972 - 2005															7.09
Performance															1

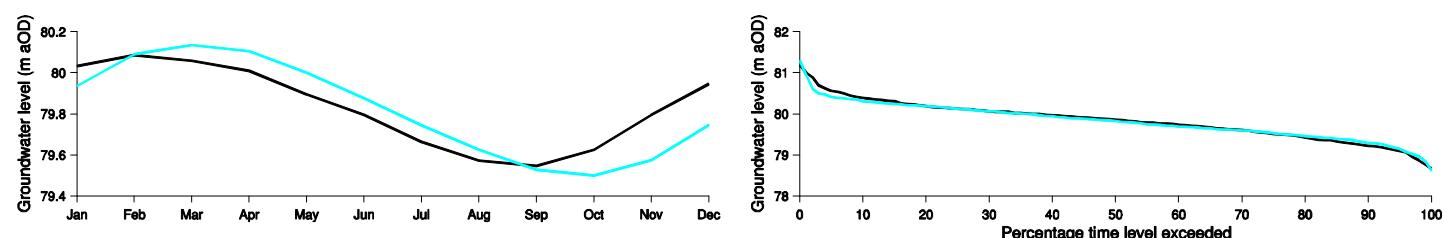


Comparison of observed and simulated levels (observed climate)

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



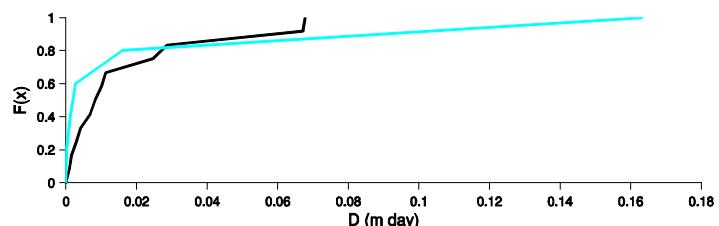
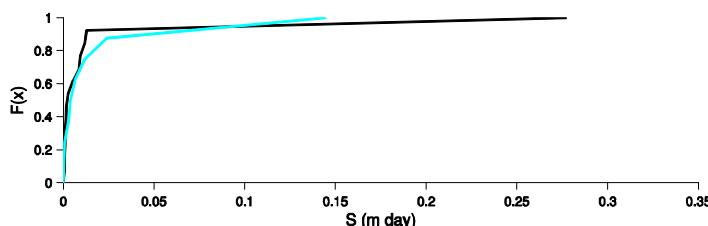
Statistics from observed (black) and simulated (blue) groundwater levels from observed climate at Llanfair



Catchment Fact Sheet SJ15/13

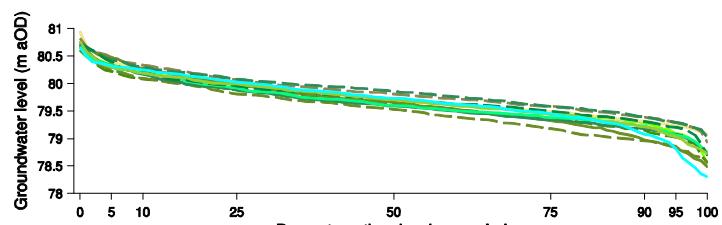
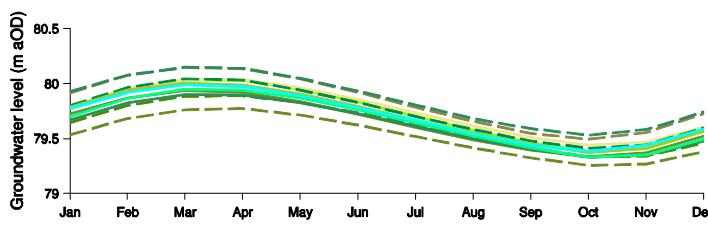
Future Flows and Groundwater Levels

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



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	0.03	-0.07	0.06	0.14	-0.05	-0.17	-0.07	0.16	-0.04	0.04	0.01
Jan	0.00	-0.12	0.02	0.14	-0.05	-0.24	-0.10	0.16	-0.07	0.03	0.01
Feb	0.02	-0.12	0.04	0.16	-0.05	-0.24	-0.10	0.16	-0.06	0.05	0.02
Mar	0.04	-0.10	0.05	0.17	-0.05	-0.22	-0.08	0.16	-0.04	0.06	0.02
Apr	0.06	-0.08	0.07	0.16	-0.05	-0.20	-0.07	0.17	-0.03	0.06	0.02
May	0.06	-0.06	0.07	0.15	-0.05	-0.18	-0.06	0.16	-0.02	0.05	0.02
Jun	0.05	-0.04	0.08	0.14	-0.06	-0.16	-0.05	0.15	-0.02	0.05	0.01
Jul	0.04	-0.04	0.07	0.12	-0.06	-0.15	-0.06	0.14	-0.02	0.04	0.00
Aug	0.03	-0.03	0.07	0.11	-0.06	-0.13	-0.04	0.14	-0.02	0.04	0.01
Sep	0.02	-0.03	0.07	0.11	-0.05	-0.12	-0.04	0.15	-0.03	0.04	0.01
Oct	0.00	-0.05	0.06	0.11	-0.05	-0.13	-0.05	0.15	-0.05	0.03	-0.01
Nov	-0.03	-0.10	0.03	0.12	-0.07	-0.17	-0.09	0.14	-0.09	0.01	-0.03
Dec	-0.03	-0.13	0.02	0.14	-0.07	-0.21	-0.11	0.15	-0.10	0.00	-0.02

Climate change graphs for 2050s

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

