

Appendix F. LS ECM V2 Results at Observation Stations

This appendix has additional tables and figures related to the LS ECM V2 results at observation stations. The statistical analysis was conducted in the period from Jan. 1, 2002 to Nov. 1, 2007, which is longer than the period considered in Appendixes B and C that ended in Jan 1, 2007. This may cause slight differences in the statistical parameters presented.

The meaning of symbols for the statistical parameter used in this appendix is

ME: mean error;

MAE: mean absolute error;

RMSE: root mean square error;

R: Correlation coefficient;

PL: average performance level, which is number in the range from 1.0 (high) to 3.0 (low).

List of sections

Mining Pits	3
Observation Wells	6
Surface water stations	46

List of Tables

Table F1. Difference of the model results at mining pits and lakes.....	3
Table F2. Statistical parameters at observation wells.	6
Table F3. Statistic parameters at surface water stations.....	46

List of Figures

Figure F1. Water level differences (Lidar – model) in mining pits and lakes from previous (V1) model.	4
Figure F2. Water level differences (Lidar – model) in mining pits and lakes from new (V2) model.....	5
Figure F3. Average performance levels in shallow wells (layer 1) from previous (V1) model.	9
Figure F4. Average performance levels in shallow wells (layer 1) from new (V2) model.	10
Figure F5. Average performance levels in deeper wells (layer> 1) from previous (V1) model.	11
Figure F6. Average performance levels in deeper wells (layer> 1) from new (V2) model.	12
Figure F7. Water level at stations 49-GW3, 49-GW6 and 49-GW7.....	13
Figure F8. Water level at stations 49-GW8, 49-GW9 and 49-GW10.....	14
Figure F9. Water level at stations 49-GW11, 49-GW12 and 49-GW14.....	15

Figure F10. Water level at stations 49-GW15, 49L-GW1 and L-1985.....	16
Figure F11. Water level at stations FP2_GW1, FP3_GW1 and FP4_GW1	17
Figure F12. Water level at stations L-5874, FP5_GW1 and FP6_GW1.....	18
Figure F13. Water level at stations FP7_GW1, FP8_GW1 and FP9_G.	19
Figure F14. Water level at stations L-5667, FP10_G and 46A-GW3.....	20
Figure F15. Water level at stations 46A-GW4, L-5649 and 46A-GW10.	21
Figure F16. Water level at stations 46A-GW11, 46A-GW12 and 46A-GW13.	22
Figure F17. Water level at stations 46A-GW14, 46A-GW15 and 46A-GW18.	23
Figure F18. Water level at stations 46A-GW21, 46A-GW25 and 46A-GW26.	24
Figure F19. Water level at stations 40-GW1, 40-GW2 and 40-GW3.....	25
Figure F20. Water level at stations 40-GW4, 40-GW5 and 40-GW6.....	26
Figure F21. Water level at stations 40-GW7, HF1_G and HF2_G.....	27
Figure F22. Water level at stations HF3_G, HF4_G and HF7_G.....	28
Figure F23. Water level at stations ST1_G, ST2_G and ST3_G.....	29
Figure F24. Water level at stations L-2192, WF1_G and L-730.	30
Figure F25. Water level at stations WF2_G, WF3_G and WF4_G.	31
Figure F26. Water level at stations WF5_G, WF6_G and WF7_G.	32
Figure F27. Water level at stations Corkscrew Swamp, L-1138 and L-2204.	33
Figure F28. Water level at stations L-5664., L-5669R and L-5673.....	34
Figure F29. Water level at stations L-739, MPW02 and MPW03.	35
Figure F30. Water level at stations MPW04, MPW05 and MPW08.	36
Figure F31. Water level at stations MPW25, MPW27 and MPW28.	37
Figure F32. Water level at stations MPW29, MPW30 and MPW31.	38
Figure F33. Water level at stations MPW33, MPW34 and MPW35.	39
Figure F34. Water level at stations MPW36, MPW39 and MW1.	40
Figure F35. Water level at stations MW2, MW3 and MW4.....	41
Figure F36. Water level at stations Lake, L-5844 and DEW-MW-1.....	42
Figure F37. Water level at stations DEW-MW-2, LM-1891 and LM-1892.	43
Figure F38. Water level at stations LM-2290, LM-2993 and Section_11_W.	44
Figure F39. Water level at stations Section_11_E, and PWS-MW-1.	45
Figure F40. Average performance levels in surface water stations from previous (V1) model.	47
Figure F41. Average performance levels in surface water stations from new (V2) model.	48
Figure F42. Comparison plots at surface water stations KehlCan_HW, KehlCan_TW and S-SF-1_HW.	49
Figure F43. Comparison plots at surface water stations S-SF-1_Q, S-SF-1_TW and S-NM-2_HW.	50

Figure F44. Comparison plots at surface water stations S-NM-2 Q, S-NM-2_TW and S-YT-2_HW.....	51
Figure F45. Comparison plots at surface water stations Mullock Creek, EsteroRiv and EsteroRiv Q.....	52
Figure F46. Comparison plots at surface water stations EsteroRivS, EsteroRivS Q and SpringCRSS.....	53
Figure F47. Comparison plots at surface water stations SpringCRSS Q, Imperial and Imperial Q.....	54
Figure F48. Comparison plots at surface water stations Halfway_S HW, Halfway_S TW and Copperleaf.....	55
Figure F49. Comparison plots at surface water stations HalfwayCrDS HW, and HalfwayCrDS TW.....	56

Mining Pits

Table F1. Difference of the model results at mining pits and lakes.

Lidar Point	D V1 (ft)	D V2 (ft)	Lidar Point	D V1 (ft)	D V2 (ft)	Lidar Point	D V1 (ft)	D V2 (ft)
1	1.2	1.7	22	-2.1	-0.8	43	-0.9	0.0
2	6.3	6.8	23	-2.1	-0.9	44	-0.9	-0.1
3	-2.5	-0.3	24	-3.3	-1.9	45	0.3	1.2
4	-3.0	-0.8	25	-3.4	-1.9	46	-0.9	0.0
5	-3.7	-1.4	26	2.8	2.8	47	-1.2	-0.3
6	-2.2	-0.6	27	2.4	2.8	48	-2.6	-1.6
7	-2.6	-0.8	28	-3.2	-1.6	49	-0.9	0.1
8	-0.8	0.1	29	-0.3	1.0	50	-0.6	0.3
9	-3.8	-1.5	30	-0.3	1.0	51	0.3	1.3
10	-2.7	-1.6	31	0.7	1.8	52	-0.8	0.2
11	-4.4	-2.7	32	-1.0	-1.1	53	-0.8	0.2
12	-3.1	-2.3	33	2.8	2.8	54	0.4	1.5
13	-2.1	-1.0	34	2.8	3.0	55	-3.3	-2.4
14	-2.4	-1.0	35	2.1	2.5	56	-1.6	-0.6
15	-1.9	-1.0	36	0.8	1.8	57	-4.6	-4.0
16	-3.9	-2.3	37	-6.9	-5.6	58	-3.3	-2.6
17	-1.9	-1.0	38	0.6	1.7	59	-0.1	0.3
18	-3.0	-1.8	39	0.8	1.7	60	-0.1	0.5
19	-3.1	-1.9	40	3.8	4.1	61	-3.1	-2.7
20	-3.1	-1.9	41	0.9	1.7	62	0.8	1.2
21	-2.7	-1.5	42	6.9	4.4	mean	-1.04	-0.07

Note: "D" stands for difference between Lidar elevation and water level from model, "V1" for LC ECM V1 and "V2" for LC ECM V2.

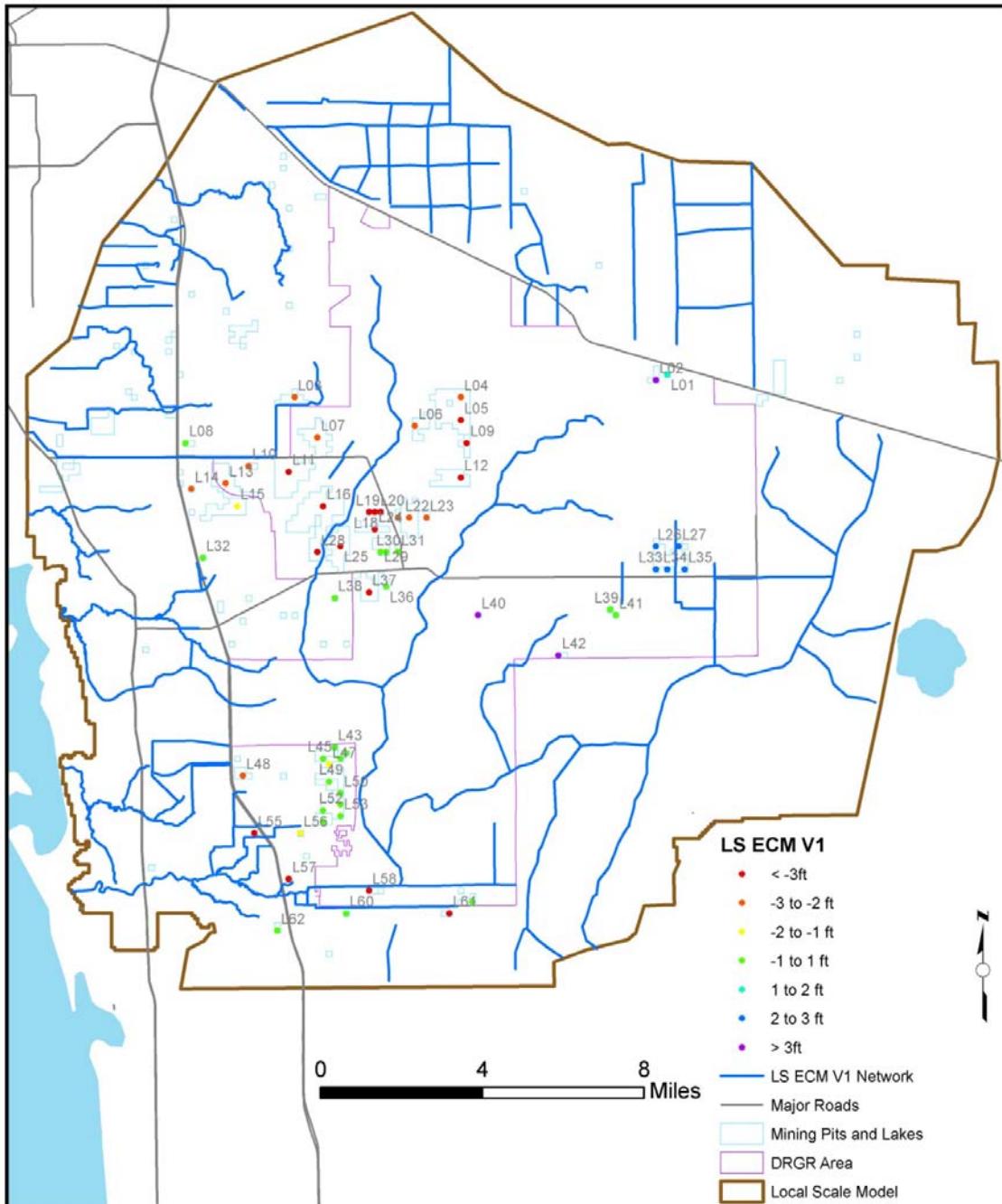


Figure F1. Water level differences (Lidar – model) in mining pits and lakes from previous (V1) model.

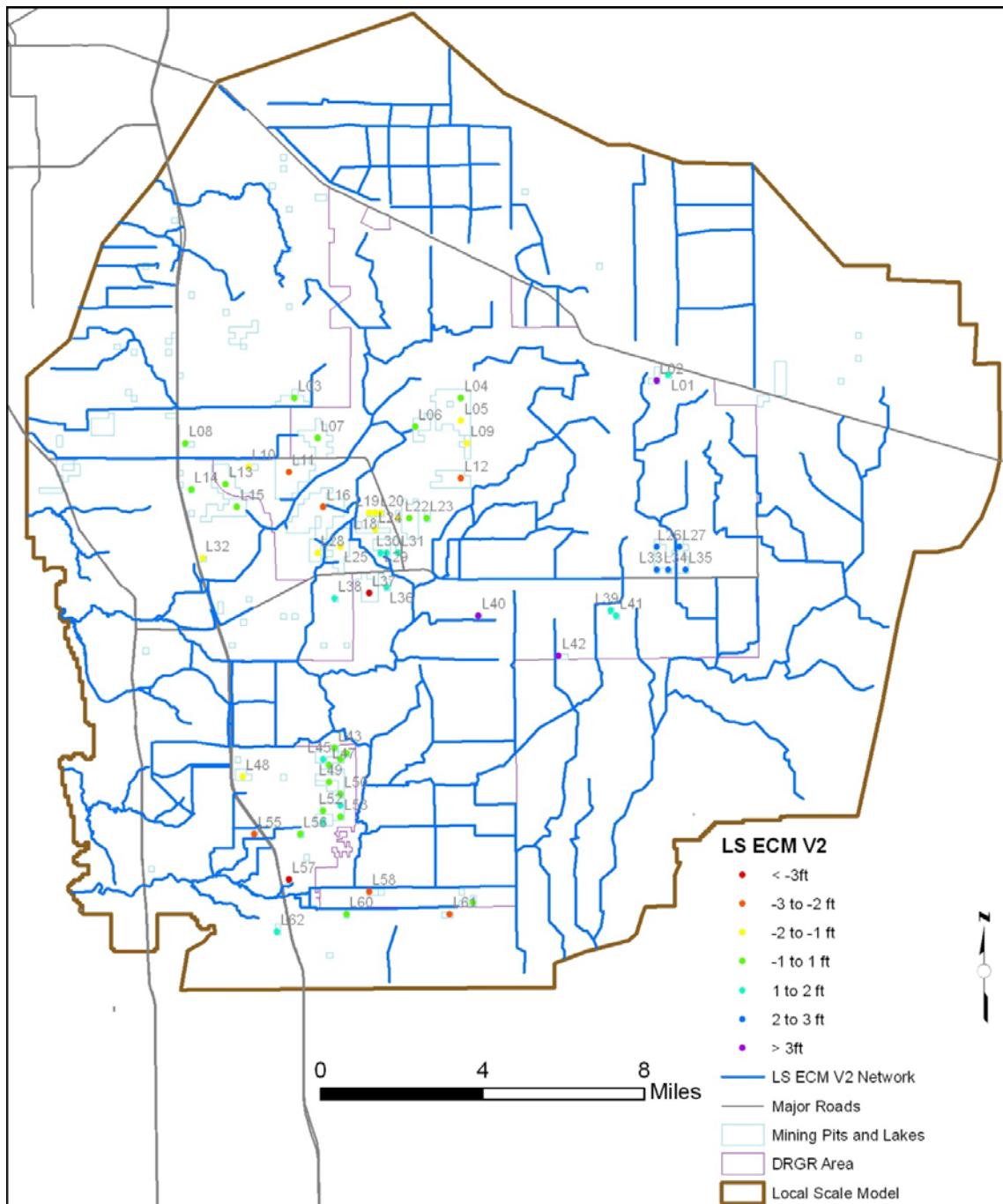


Figure F2. Water level differences (Lidar – model) in mining pits and lakes from new (V2) model.

Observation Wells

Table F2. Statistical parameters at observation wells.

Name	Layer	LS ECM V1					LS ECM V2				
		ME (ft)	MAE (ft)	RMSE (ft)	R	PL	ME (ft)	MAE (ft)	RMSE (ft)	R	PL
49-GW3	1	0.11	0.90	1.14	0.40	1.5	0.93	1.32	1.63	0.37	2.0
49-GW6	1	0.38	1.18	1.43	0.75	1.5	0.76	1.16	1.54	0.72	1.5
49-GW7	1	0.44	0.86	1.29	0.58	1.5	0.20	0.78	1.14	0.61	1.3
49-GW8	1	1.79	1.79	2.19	0.23	2.3	1.64	1.64	2.03	0.23	2.3
49-GW9	1	1.31	1.34	1.61	0.84	1.8	1.53	1.57	1.81	0.82	1.8
49-GW10	1	-0.46	0.88	1.06	0.87	1.0	-0.02	0.81	0.96	0.88	1.0
49-GW11	1	0.20	1.07	1.35	0.85	1.5	0.88	1.23	1.57	0.87	1.5
49-GW12	1	0.56	0.85	1.12	0.87	1.0	1.16	1.24	1.48	0.90	1.8
49-GW14	1	-0.14	0.64	0.76	0.89	1.0	0.12	0.61	0.78	0.87	1.0
49-GW15	1	1.72	1.76	1.92	0.53	2.0	1.54	1.56	1.69	0.57	2.0
49L-GW1	1	0.23	0.78	0.96	0.77	1.0	0.85	0.99	1.21	0.81	1.0
L-1985	2	0.19	2.51	3.04	0.61	2.3	1.19	2.66	3.57	0.52	2.5
FP2_GW1	1	0.50	1.09	1.53	0.80	1.5	1.26	1.54	2.19	0.71	1.8
FP3_GW1	1	0.28	0.60	0.73	0.86	1.0	0.82	0.86	1.10	0.85	1.0
FP4_GW1	1	-0.22	0.55	0.70	0.89	1.0	0.20	0.79	0.95	0.84	1.0
L-5874	3	-3.50	3.77	4.65	0.71	2.5	-3.04	3.52	4.37	0.66	2.8
FP5_GW1	1	-0.33	0.60	0.76	0.88	1.0	0.01	0.75	0.95	0.82	1.0
FP6_GW1	1	-0.41	0.76	0.94	0.87	1.0	0.10	0.79	1.01	0.82	1.0
FP7_GW1	1	-0.41	0.84	1.03	0.86	1.0	0.25	0.80	1.03	0.84	1.0
FP8_GW1	1	-0.27	0.70	0.85	0.88	1.0	0.17	0.79	0.99	0.84	1.0
FP9_G	1	-0.39	0.83	1.02	0.86	1.0	0.27	0.81	1.05	0.83	1.0
L-5667	1	1.08	1.28	1.39	0.93	1.8	1.80	1.88	2.02	0.89	1.8
FP10_G	1	-0.25	0.54	0.72	0.89	1.0	0.09	0.77	0.99	0.82	1.0
46A-GW3	1	-2.14	2.14	2.39	0.72	2.3	-1.97	1.98	2.20	0.77	1.8
46A-GW4	1	-0.52	1.12	1.36	0.74	1.5	0.07	1.00	1.21	0.72	1.0
L-5649	4	-7.45	7.45	8.15	0.63	2.8	-7.38	7.38	8.10	0.58	2.8
46A-GW10	1	-0.25	0.53	0.70	0.81	1.0	-0.63	0.74	0.91	0.81	1.0
46A-GW11	1	-1.28	1.28	1.36	0.92	1.8	-1.49	1.49	1.55	0.93	1.8
46A-GW12	1	-1.69	1.78	2.10	0.69	2.0	-1.64	1.65	2.00	0.83	1.8
46A-GW13	1	-0.94	1.00	1.12	0.86	1.0	-0.84	0.91	1.07	0.82	1.0
46A-GW14	1	-0.96	1.21	1.39	0.58	1.8	-0.63	1.05	1.18	0.54	1.5
46A-GW15	1	-0.53	0.62	0.81	0.91	1.0	0.01	0.42	0.58	0.91	1.0
46A-GW18	1	-1.05	1.22	1.40	0.85	1.8	-0.58	0.92	1.07	0.86	1.0
46A-GW21	1	-1.01	1.10	1.28	0.73	1.8	-1.10	1.17	1.37	0.70	1.8
46A-GW25	1	0.06	0.48	0.60	0.86	1.0	-0.10	0.48	0.60	0.87	1.0
46A-GW26	1	-0.27	0.47	0.61	0.78	1.0	-0.37	0.53	0.67	0.79	1.0

Name	Layer	LS ECM V1					LS ECM V2				
		ME (ft)	MAE (ft)	RMSE (ft)	R	PL	ME (ft)	MAE (ft)	RMSE (ft)	R	PL
40-GW1	1	0.21	0.82	1.11	0.67	1.3	-1.17	1.34	1.65	0.67	2.0
40-GW2	1	0.86	1.36	1.65	0.45	2.0	0.80	1.28	1.65	0.46	2.0
40-GW3	2	-0.65	0.86	1.03	0.80	1.0	-0.73	0.94	1.09	0.81	1.0
40-GW4	2	-3.86	3.86	3.97	0.78	2.5	-4.65	4.65	4.74	0.80	2.5
40-GW5	1	-0.74	1.11	1.37	0.77	1.5	-2.49	2.49	2.69	0.75	2.5
40-GW6	1	0.38	1.24	1.67	0.44	2.0	0.42	1.27	1.68	0.46	2.0
40-GW7	1	-0.42	0.79	1.12	0.69	1.3	-0.45	0.86	1.20	0.63	1.3
HF1_G	1	-4.28	4.43	5.98	0.27	3.0	-4.30	4.51	6.06	0.22	3.0
HF2_G	1	-0.37	1.04	1.24	0.71	1.3	-0.38	1.10	1.30	0.69	1.8
HF3_G	1	2.24	2.27	2.63	0.80	2.5	2.23	2.25	2.59	0.81	2.5
HF4_G	1	-1.37	1.78	2.20	0.62	2.0	-1.40	1.83	2.24	0.60	2.0
HF7_G	1	-1.42	1.69	2.08	0.59	2.0	-1.43	1.76	2.14	0.56	2.0
ST1_G	1	-0.44	0.72	0.85	0.86	1.0	-0.44	0.78	0.91	0.82	1.0
ST2_G	1	0.05	0.61	0.73	0.86	1.0	0.04	0.63	0.76	0.84	1.0
ST3_G	1	-0.34	0.80	0.92	0.80	1.0	-0.12	0.75	0.91	0.76	1.0
L-2192	3	1.64	4.35	5.53	0.14	2.8	0.76	4.27	5.50	0.06	2.5
WF1_G	2	1.06	1.06	1.12	0.94	1.5	-0.01	0.42	0.51	0.94	1.0
L-730	2	0.72	0.75	0.99	0.80	1.0	0.02	0.86	1.09	0.65	1.3
WF2_G	2	1.31	1.39	1.73	0.77	1.8	0.31	1.25	1.49	0.62	1.8
WF3_G	1	1.54	1.54	1.71	0.86	1.8	0.42	1.09	1.36	0.70	1.8
WF4_G	1	0.95	1.05	1.27	0.83	1.5	-0.07	1.07	1.30	0.71	1.5
WF5_G	1	1.02	1.08	1.40	0.81	1.8	-0.10	1.30	1.52	0.64	1.8
WF6_G	1	0.87	0.91	1.18	0.85	1.0	-0.19	1.11	1.29	0.71	1.5
WF7_G	1	1.16	1.18	1.49	0.81	1.8	0.07	1.25	1.48	0.64	1.8
Corkscrew S.	1	-0.53	0.99	1.05	0.85	1.0	-0.39	0.99	1.08	0.81	1.0
L-1138	1	-0.19	0.76	0.89	0.81	1.0	-0.32	0.81	0.98	0.76	1.0
L-2204	2	-0.71	0.75	0.91	0.90	1.0	-0.99	1.01	1.16	0.89	1.3
L-5664	4	-9.75	9.75	10.74	0.57	2.8	-10.2	10.23	11.20	0.61	2.8
L-5669R	3	0.14	0.37	0.52	0.88	1.0	1.72	1.82	2.26	0.88	1.8
L-5673	3	-8.69	8.73	9.46	0.68	2.8	-7.61	7.66	8.34	0.70	2.8
L-739	2	0.54	0.60	0.74	0.96	1.0	1.05	1.05	1.15	0.95	1.5
MPW02	1	-0.66	0.70	0.80	0.94	1.0	-0.47	0.69	0.82	0.87	1.0
MPW03	1	-0.77	0.78	0.87	0.92	1.0	-0.56	0.77	0.92	0.71	1.0
MPW04	1	-0.01	0.50	0.65	0.91	1.0	-0.08	0.68	0.83	0.85	1.0
MPW05	1	0.25	0.53	0.57	0.78	1.0	-0.38	0.44	0.59	0.83	1.0
MPW08	1	1.11	1.11	1.18	0.93	1.5	0.65	0.68	0.85	0.87	1.0
MPW25	1	-0.27	0.35	0.39	0.95	1.0	-0.82	0.82	0.86	0.94	1.0
MPW27	1	0.45	0.50	0.79	0.86	1.0	0.40	0.65	0.96	0.72	1.0

Name	Layer	LS ECM V1					LS ECM V2				
		ME (ft)	MAE (ft)	RMSE (ft)	R	PL	ME (ft)	MAE (ft)	RMSE (ft)	R	PL
MPW28	1	0.95	0.95	1.00	0.77	1.0	-0.03	0.14	0.17	0.93	1.0
MPW29	1	-0.08	0.31	0.40	0.97	1.0	0.07	0.33	0.42	0.96	1.0
MPW30	1	0.39	0.79	1.16	0.61	1.3	0.08	1.00	1.22	0.57	1.3
MPW31	1	0.23	0.27	0.43	0.96	1.0	0.17	0.45	0.68	0.86	1.0
MPW33	1	-0.94	1.21	1.48	0.72	1.5	-0.93	1.26	1.51	0.69	1.8
MPW34	1	0.49	0.49	0.49	0.98	1.0	-0.16	0.16	0.17	0.98	1.0
MPW35	1	-1.02	1.05	1.21	0.91	1.5	-0.22	0.58	0.76	0.88	1.0
MPW36	1	-0.20	0.62	0.75	0.85	1.0	0.16	0.53	0.66	0.88	1.0
MPW39	1	0.47	2.74	3.18	0.48	2.5	1.61	2.96	3.81	0.31	2.8
MW1	1	-0.30	0.92	1.68	0.49	1.8	-0.86	0.99	1.65	0.70	1.3
MW2	1	0.79	0.90	1.40	0.55	1.5	0.35	1.40	1.77	0.18	2.0
MW3	1	1.32	1.32	1.58	0.72	1.8	0.78	1.24	1.69	0.42	2.0
MW4	1	0.17	0.81	0.94	0.81	1.0	-0.12	0.58	0.81	0.87	1.0
Lake	1	0.74	0.87	1.33	0.59	1.5	0.31	1.31	1.67	0.24	2.0
L-5844	2	-7.34	7.34	7.38	0.75	2.5	-7.96	7.96	8.01	0.70	2.8
DEW-MW-1	1	-3.14	3.14	3.22	0.63	2.8	-2.44	2.44	2.55	0.54	2.8
DEW-MW-2	1	-2.87	2.87	2.89	0.87	2.5	-1.96	1.96	1.99	0.89	1.8
LM-1891	1	-2.55	2.55	2.64	0.77	2.5	-1.53	1.53	1.66	0.69	2.0
LM-1892	1	-1.80	1.80	1.97	0.00	2.3	-0.07	0.63	0.68	0.00	1.5
LM-2290	1	-3.66	3.66	3.73	0.88	2.5	-1.79	1.79	2.04	0.37	2.3
LM-2993	1	-3.49	3.49	3.58	0.82	2.5	-2.22	2.22	2.47	0.65	2.5
Section_11_W	1	-0.09	0.46	0.55	0.89	1.0	0.79	0.79	0.90	0.86	1.0
Section_11_E	1	-2.76	2.76	2.82	0.73	2.5	-1.08	1.09	1.24	0.70	1.5
PWS-MW-1	1	-4.18	4.18	4.25	0.66	2.8	-2.37	2.37	2.52	0.22	3.0

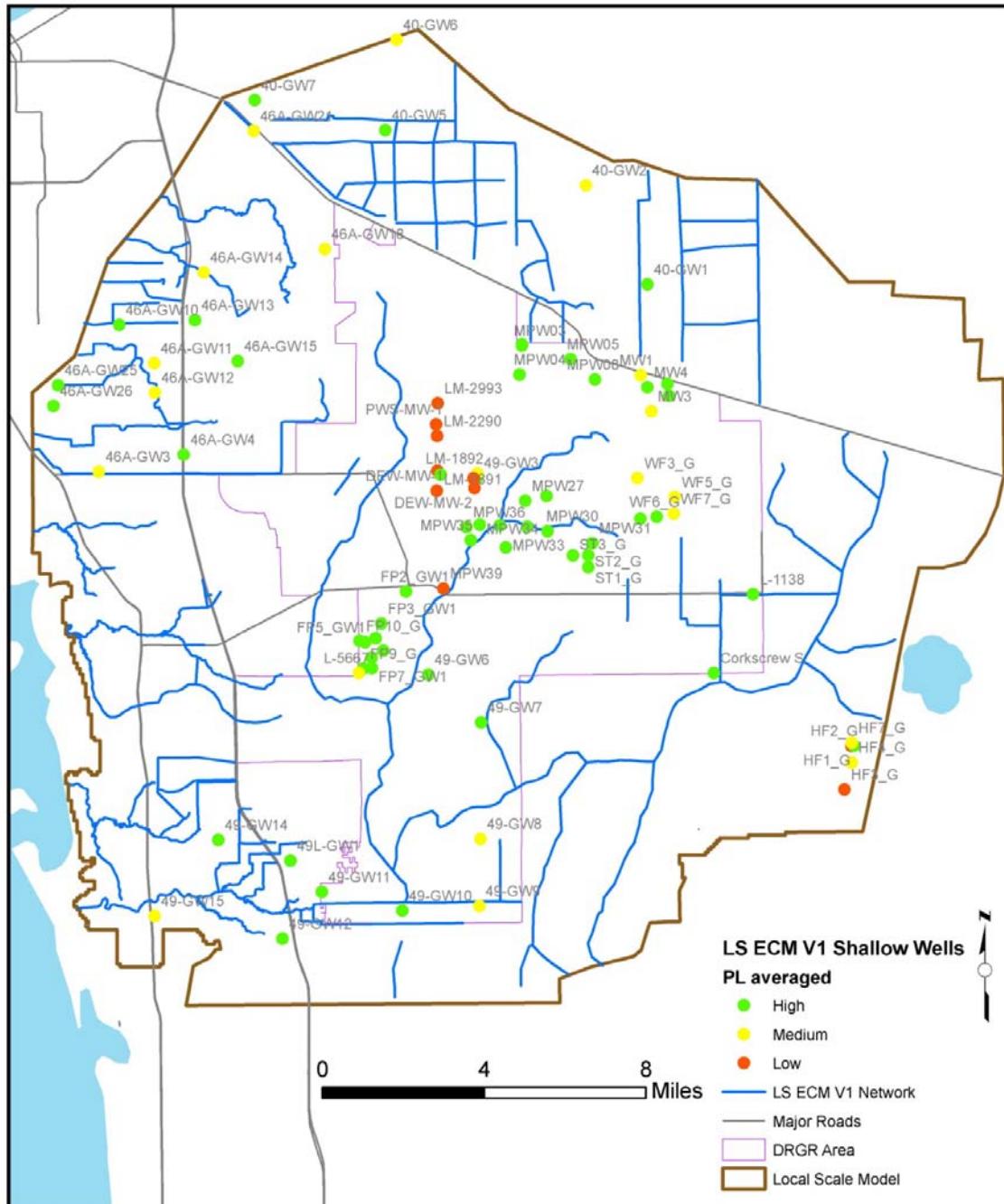


Figure F3. Average performance levels in shallow wells (layer 1) from previous (V1) model.

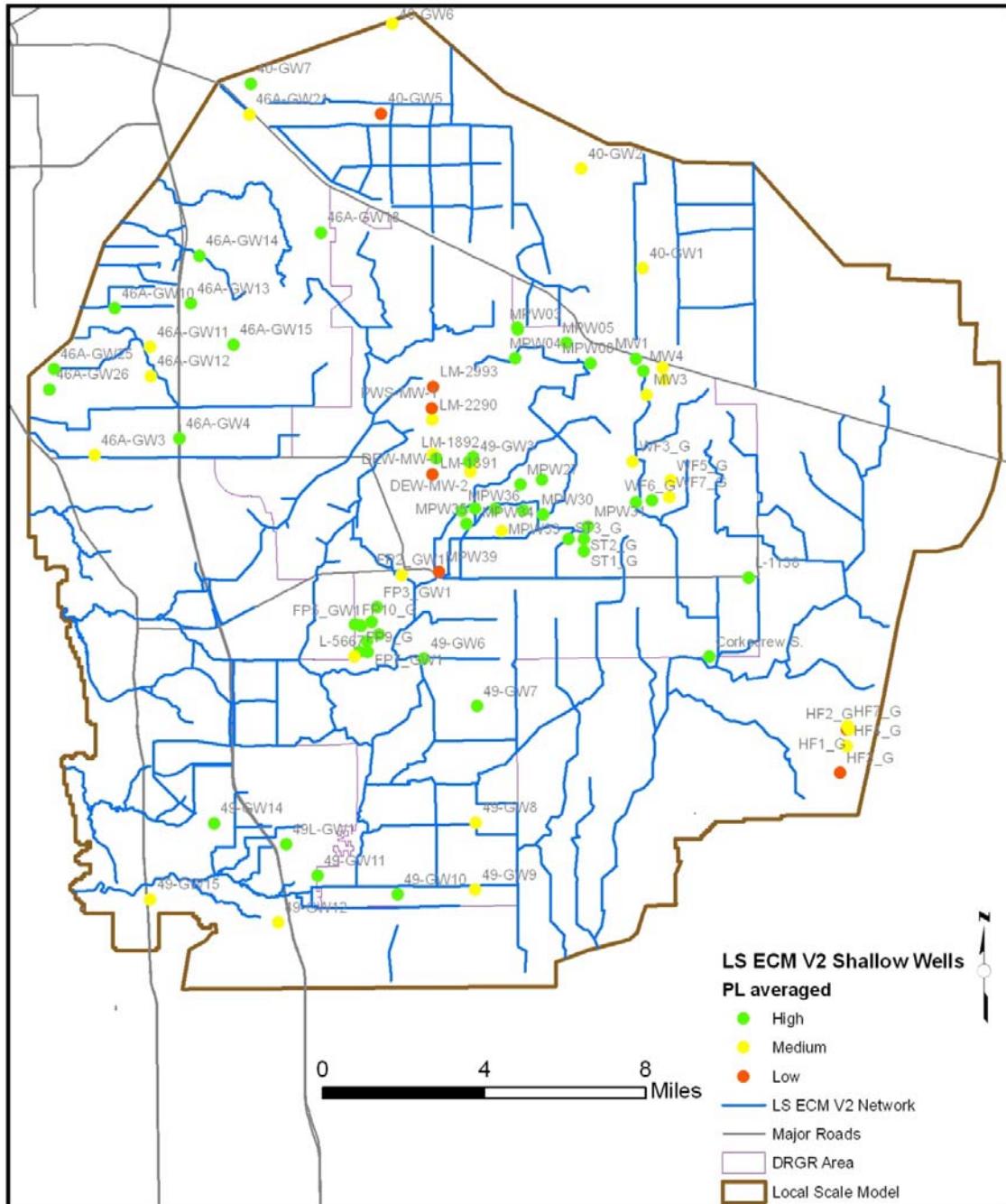


Figure F4. Average performance levels in shallow wells (layer 1) from new (V2) model.

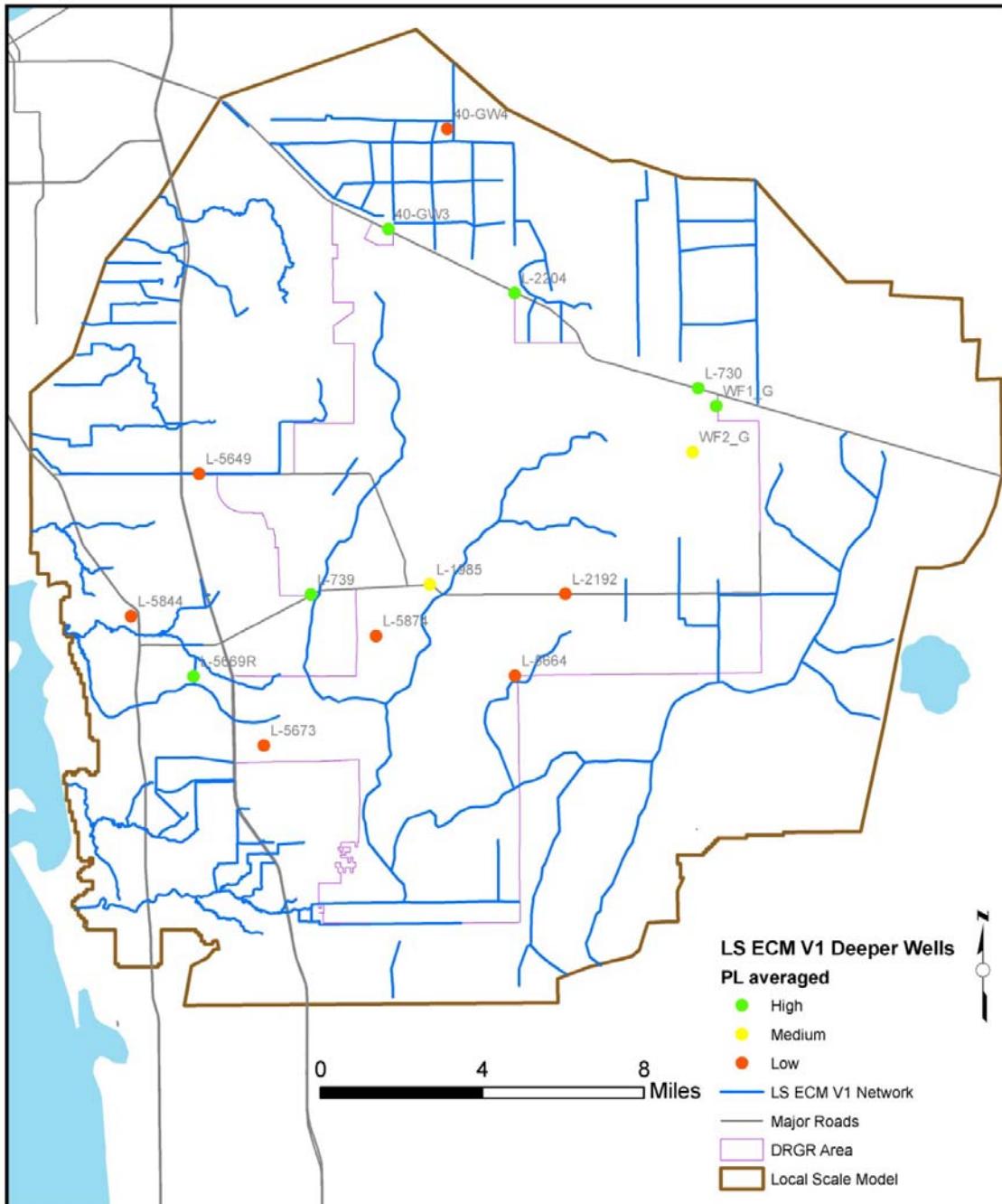


Figure F5. Average performance levels in deeper wells (layer > 1) from previous (V1) model.

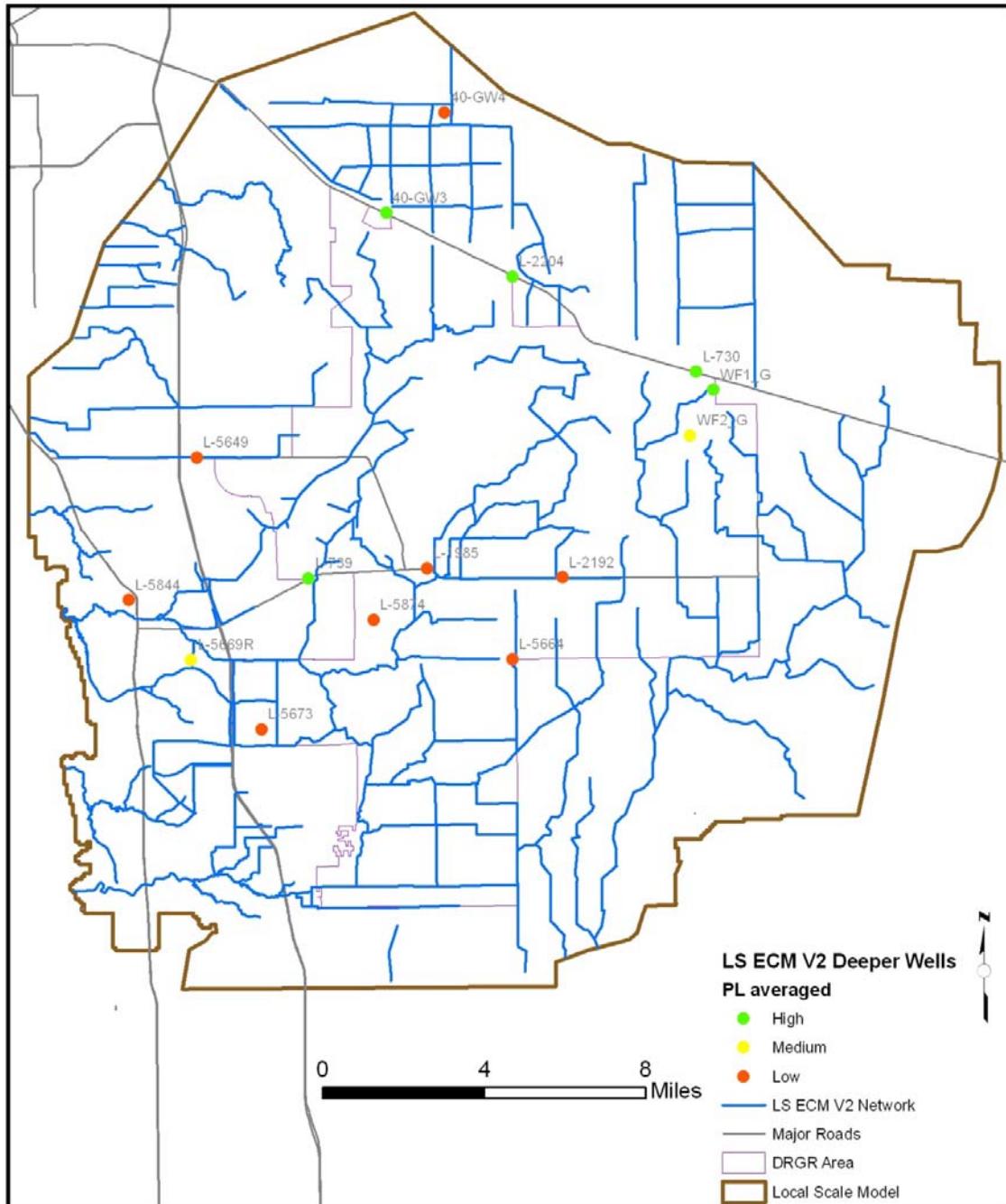


Figure F6. Average performance levels in deeper wells (layer > 1) from new (V2) model.

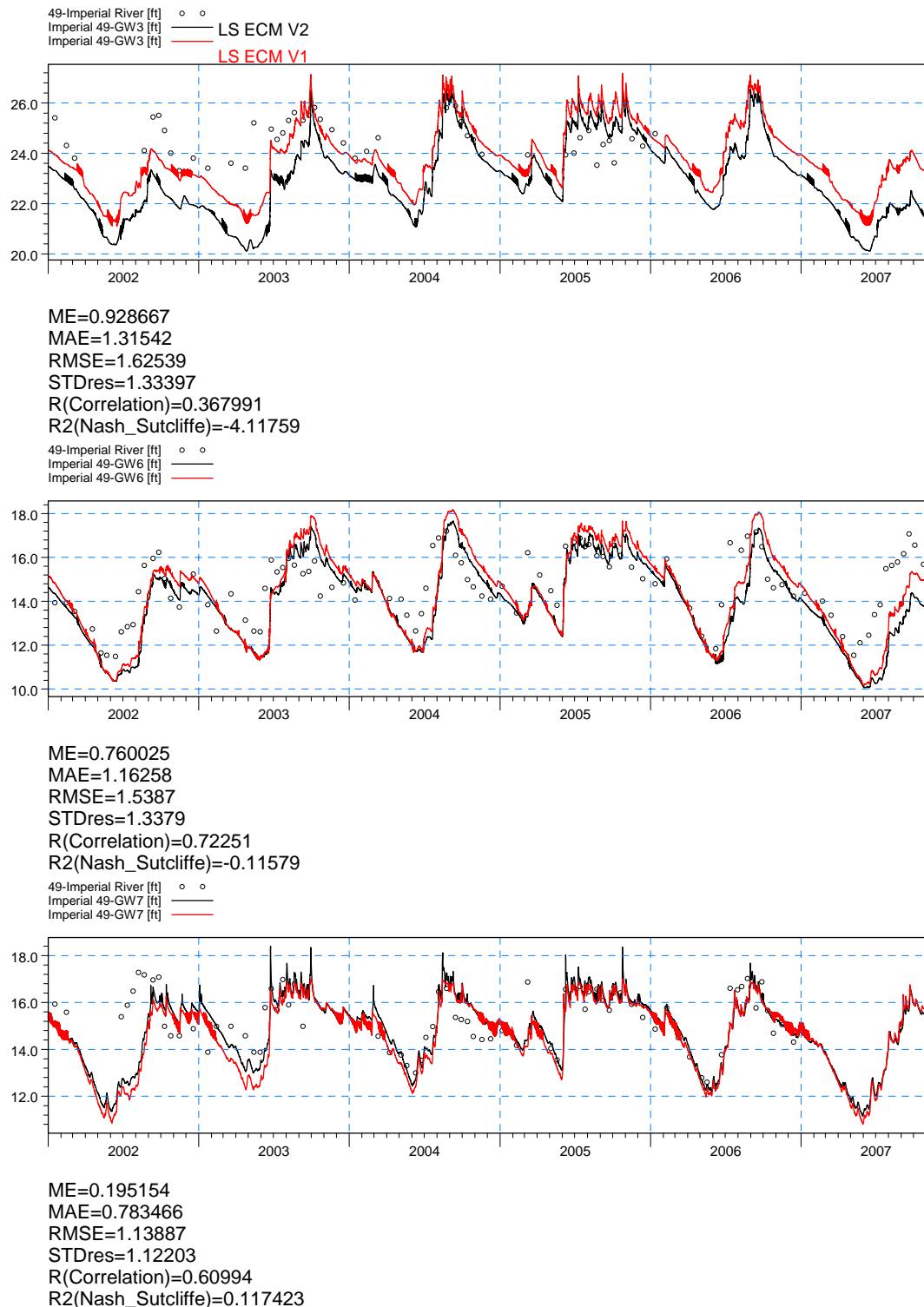


Figure F7. Water level at stations 49-GW3, 49-GW6 and 49-GW7.

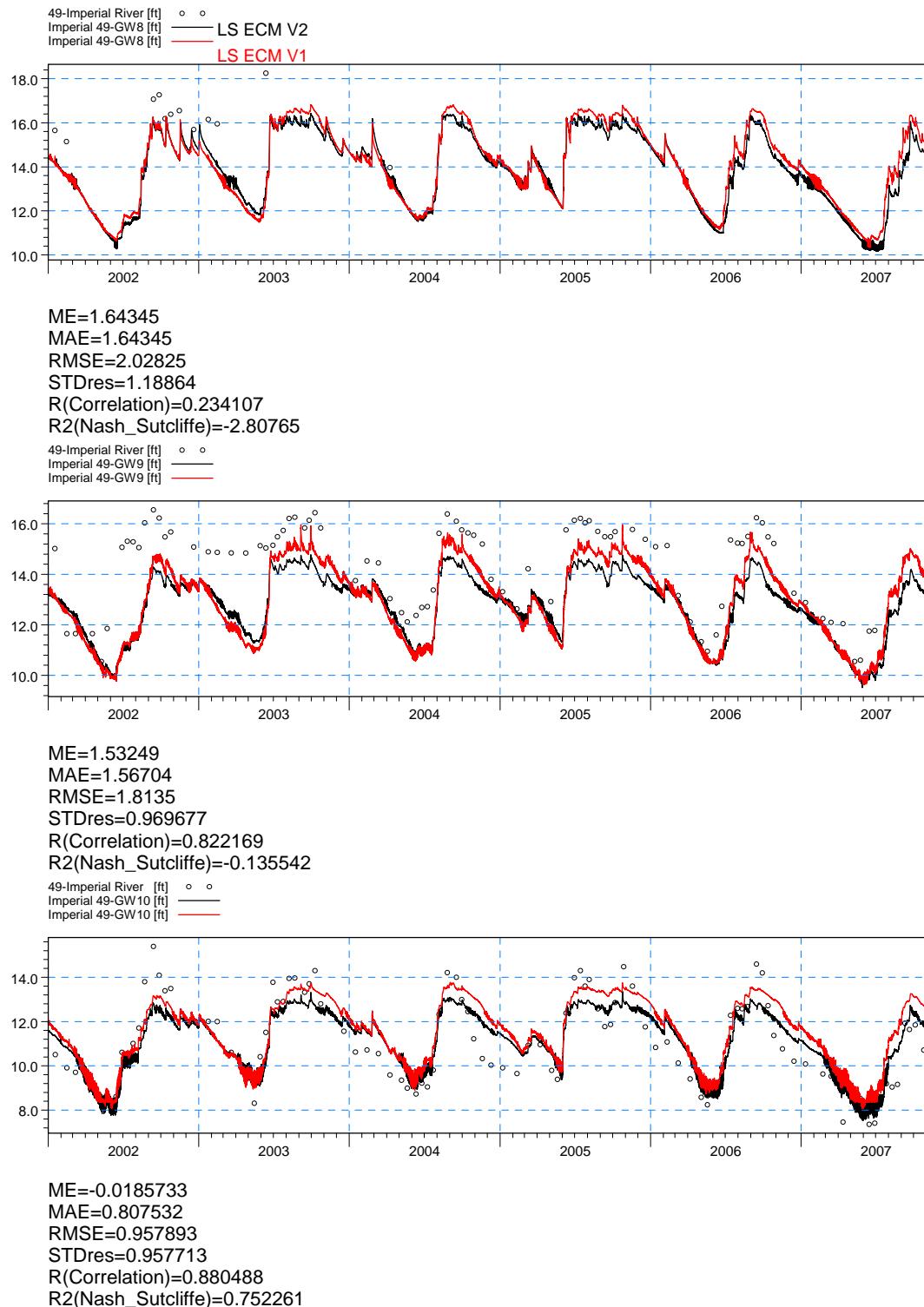


Figure F8. Water level at stations 49-GW8, 49-GW9 and 49-GW10.

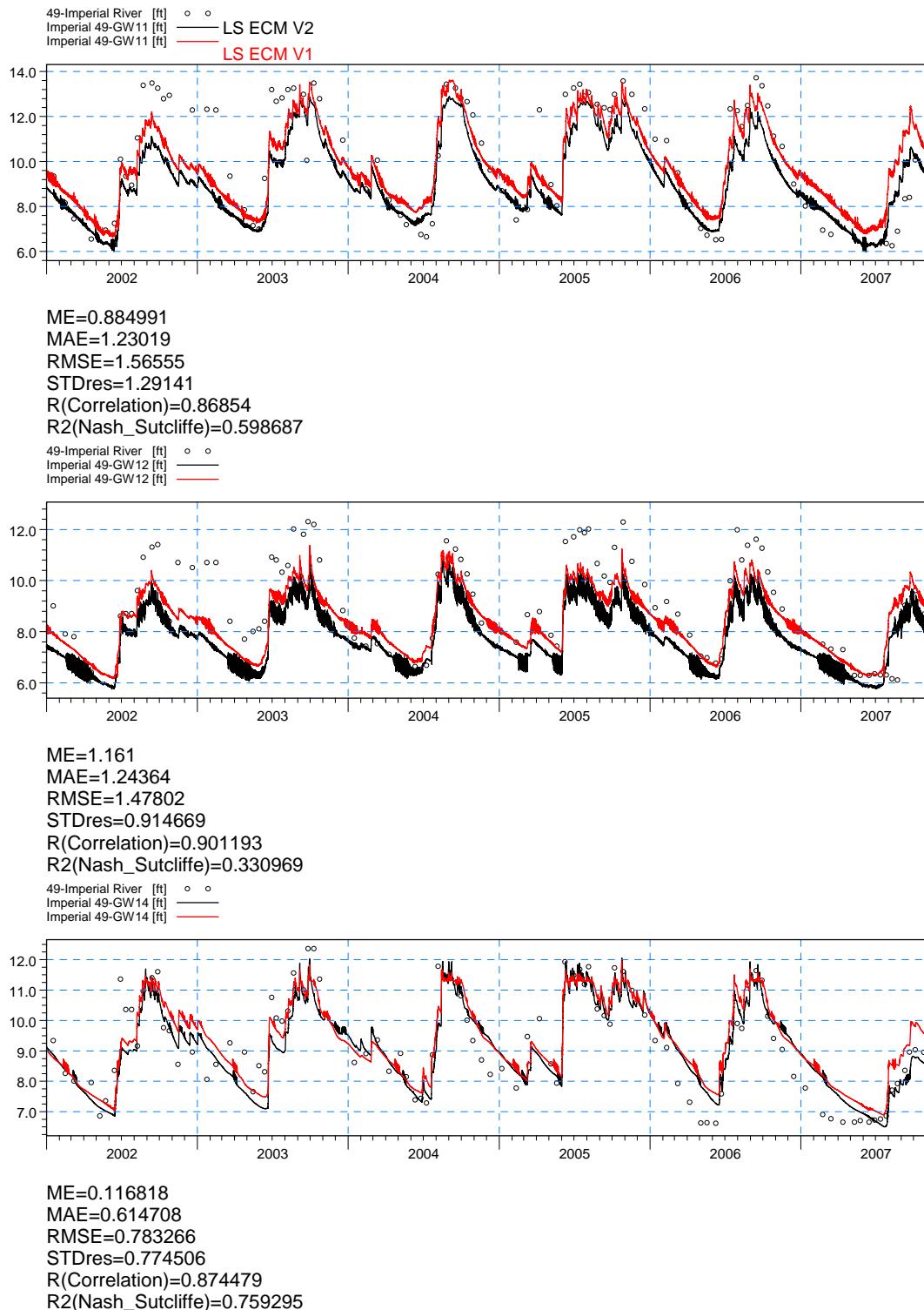


Figure F9. Water level at stations 49-GW11, 49-GW12 and 49-GW14.

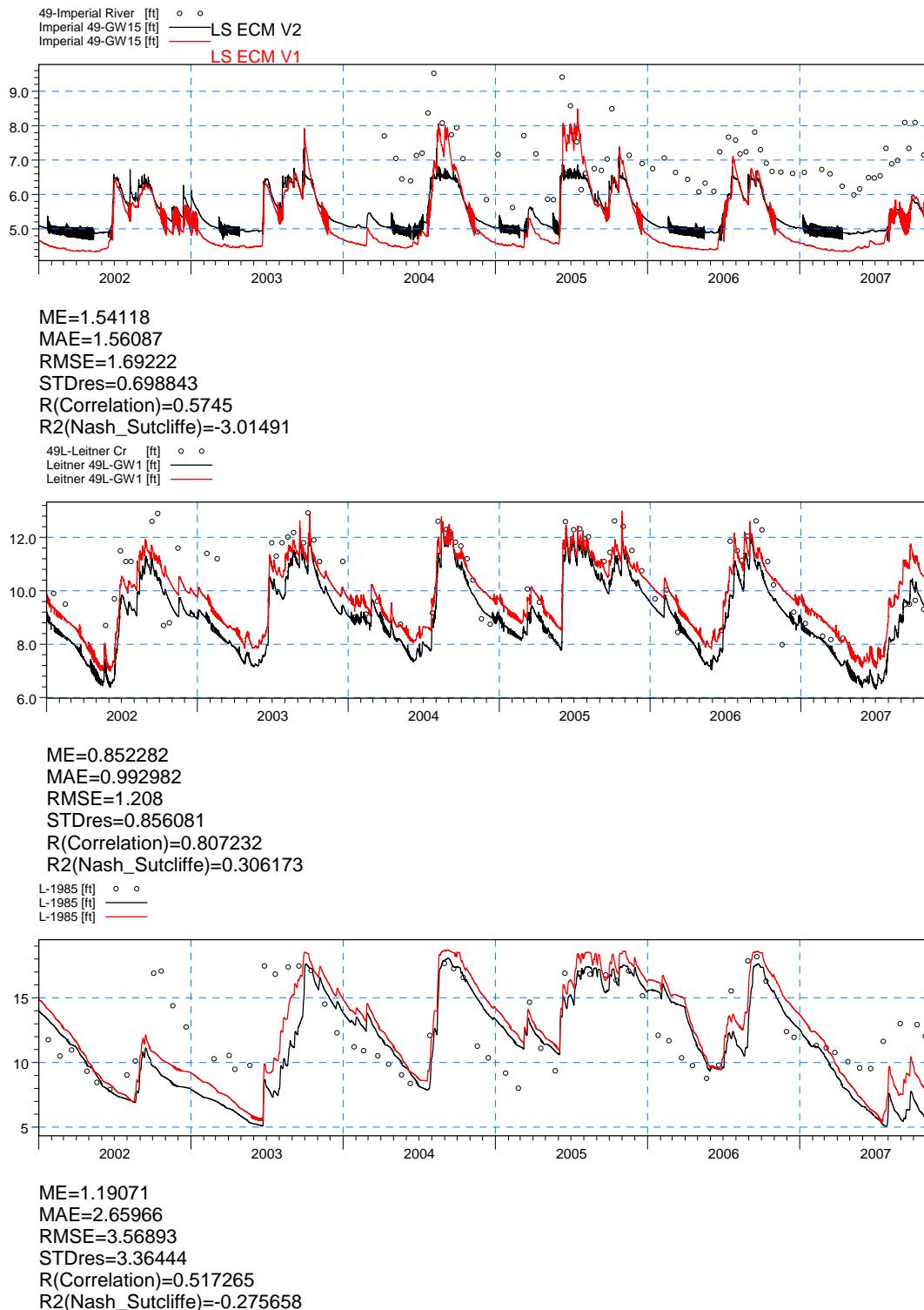


Figure F10. Water level at stations 49-GW15, 49L-GW1 and L-1985.

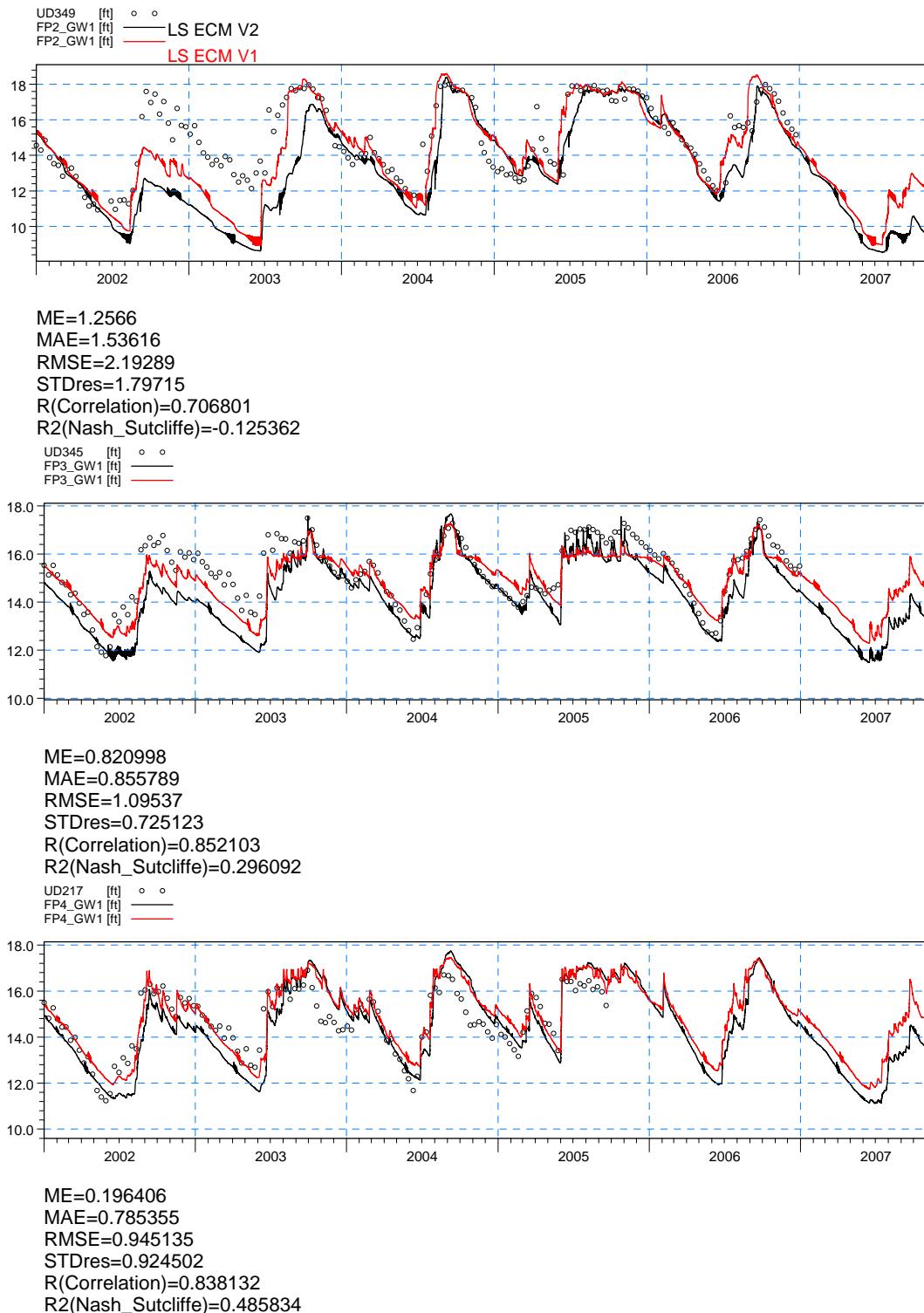


Figure F11. Water level at stations FP2_GW1, FP3_GW1 and FP4_GW1.

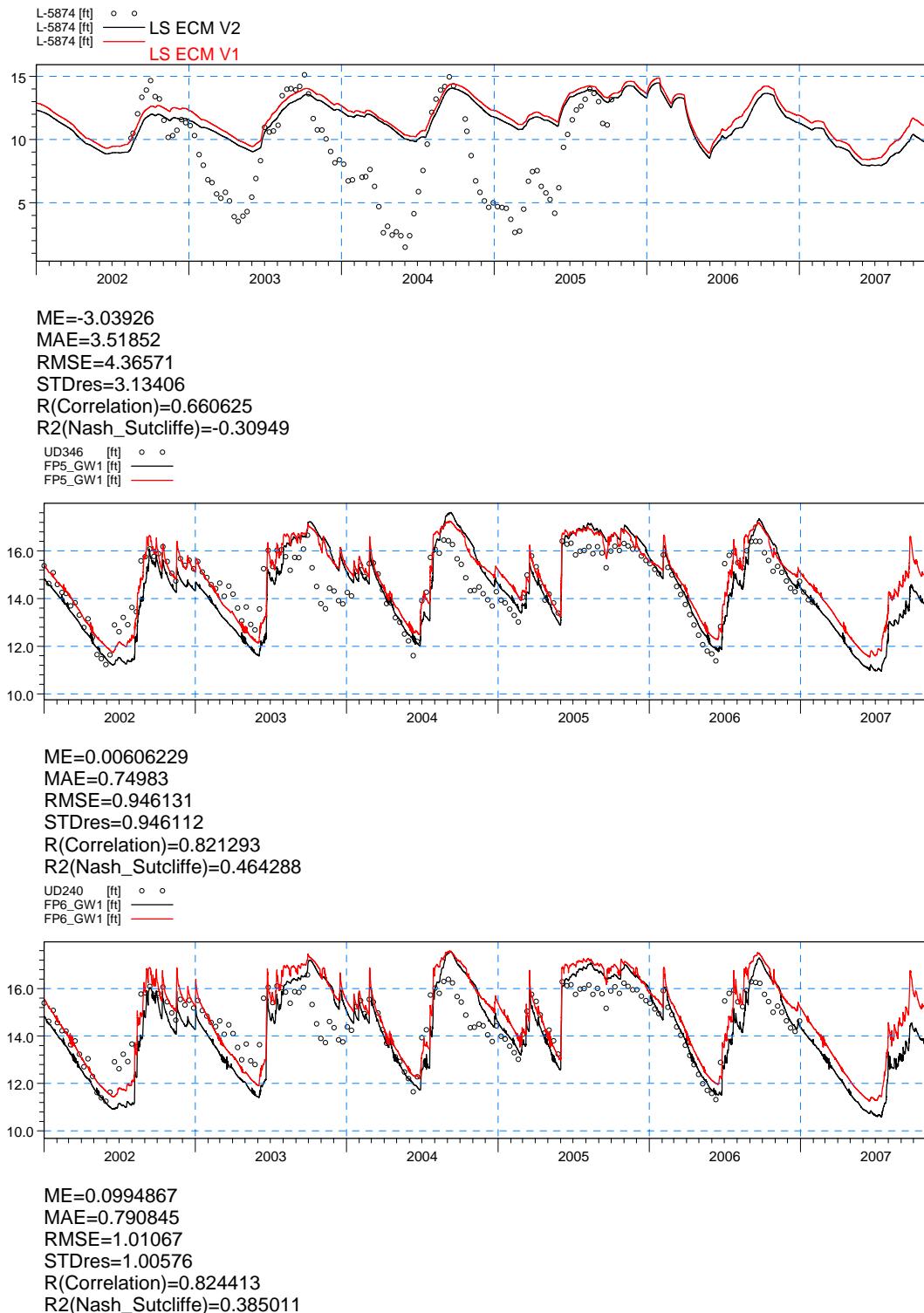


Figure F12. Water level at stations L-5874, FP5_GW1 and FP6_GW1.

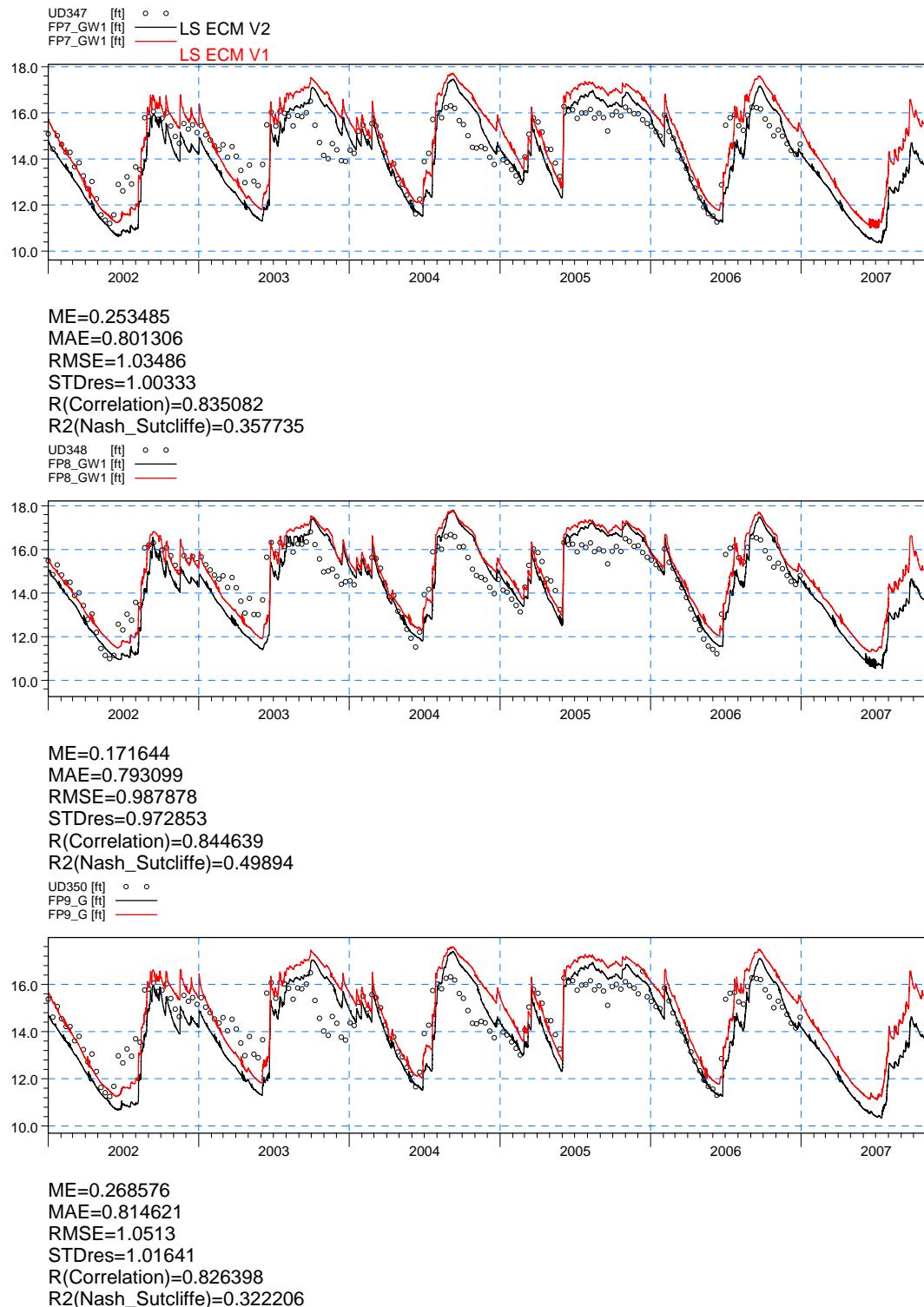


Figure F13. Water level at stations FP7_GW1, FP8_GW1 and FP9_G.

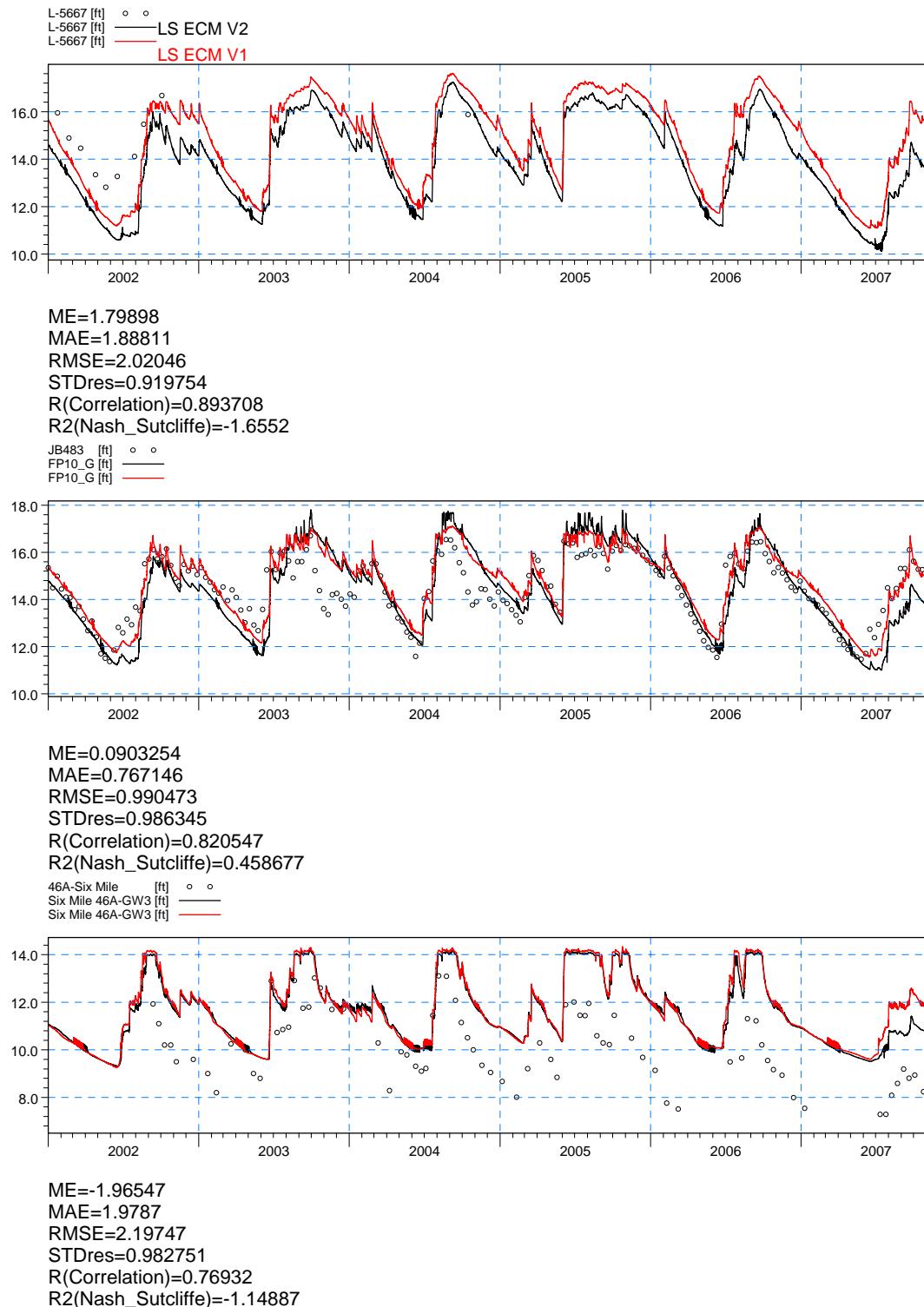


Figure F14. Water level at stations L-5667, FP10_G and 46A-GW3.

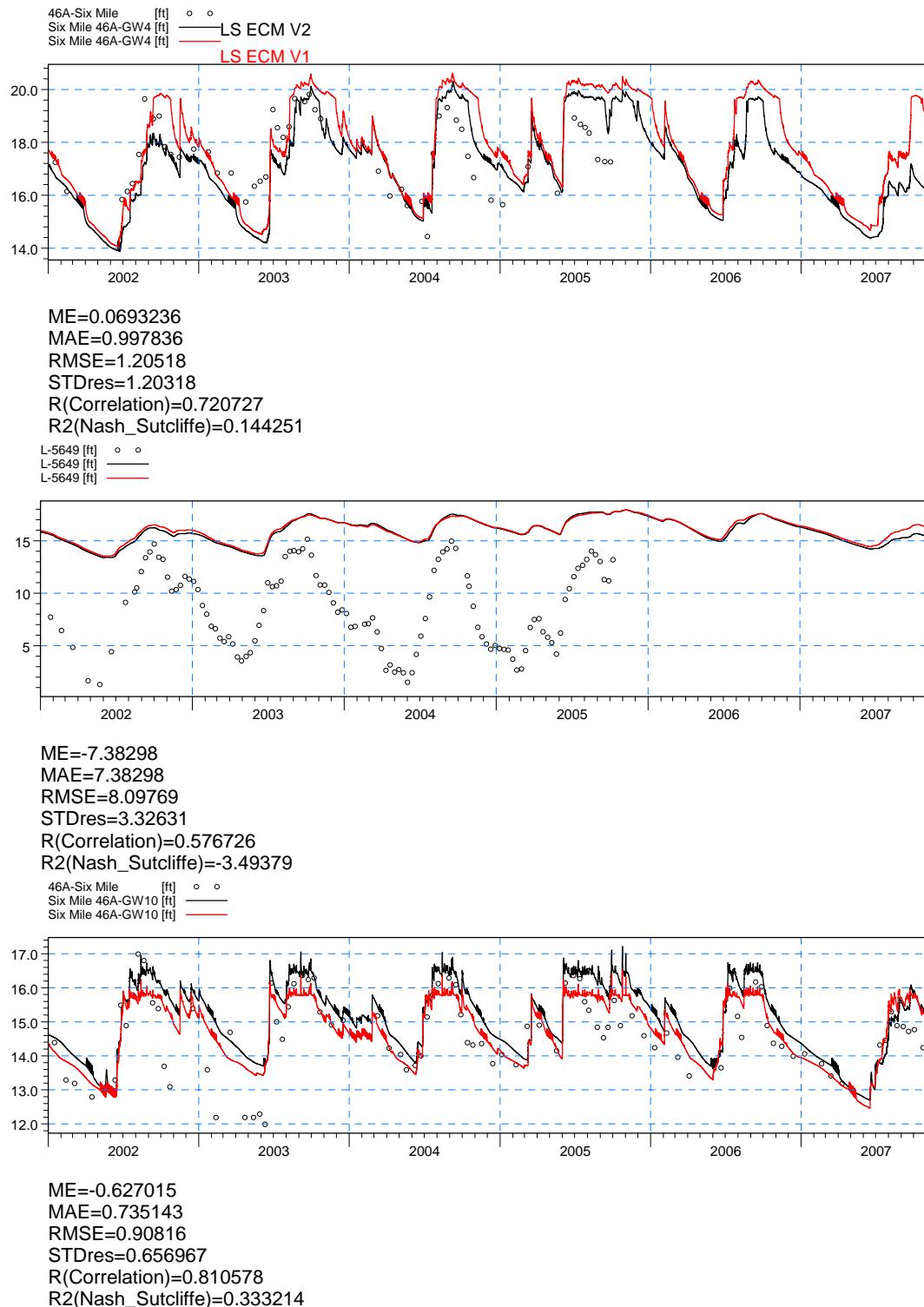


Figure F15. Water level at stations 46A-GW4, L-5649 and 46A-GW10.

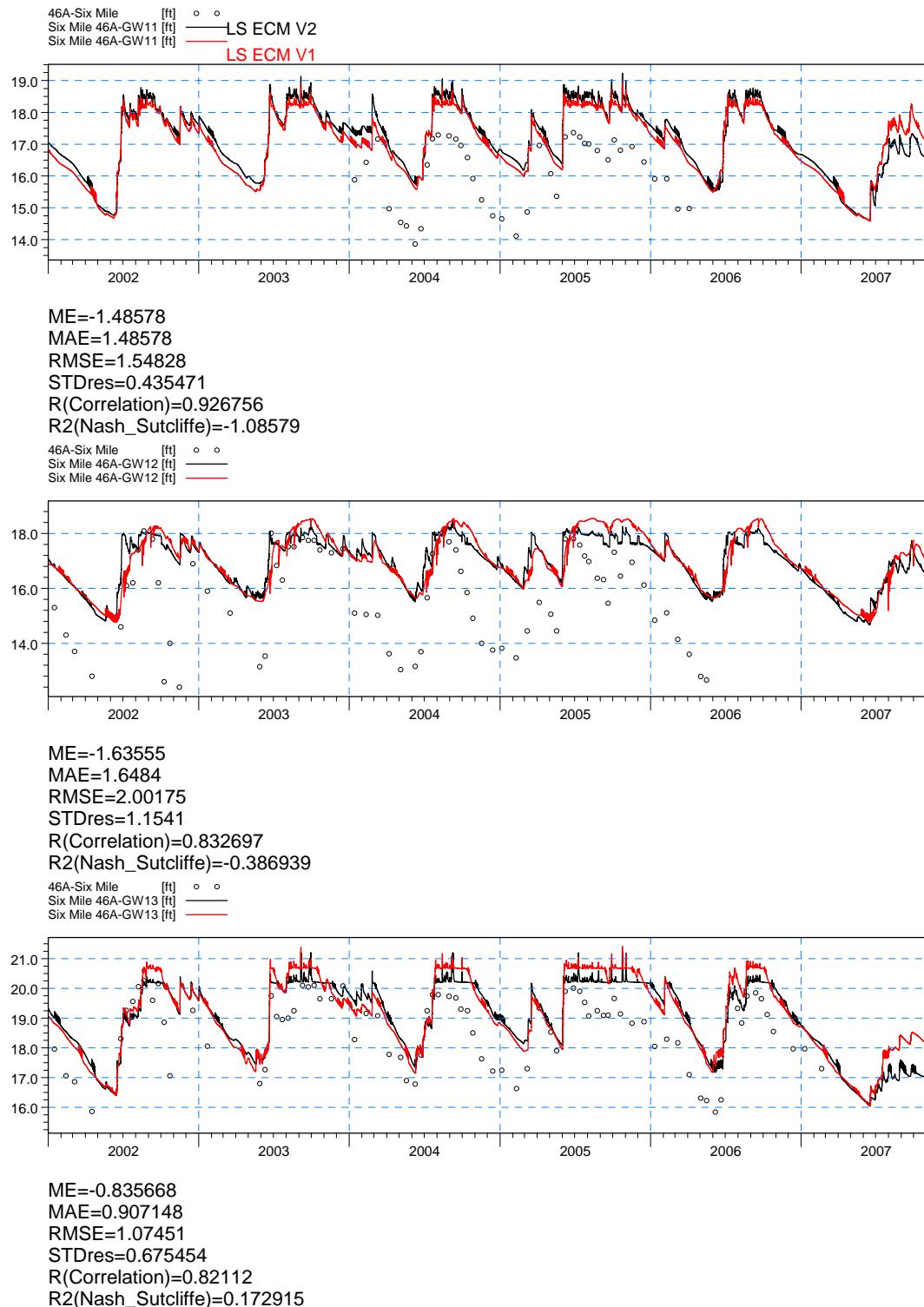


Figure F16. Water level at stations 46A-GW11, 46A-GW12 and 46A-GW13.

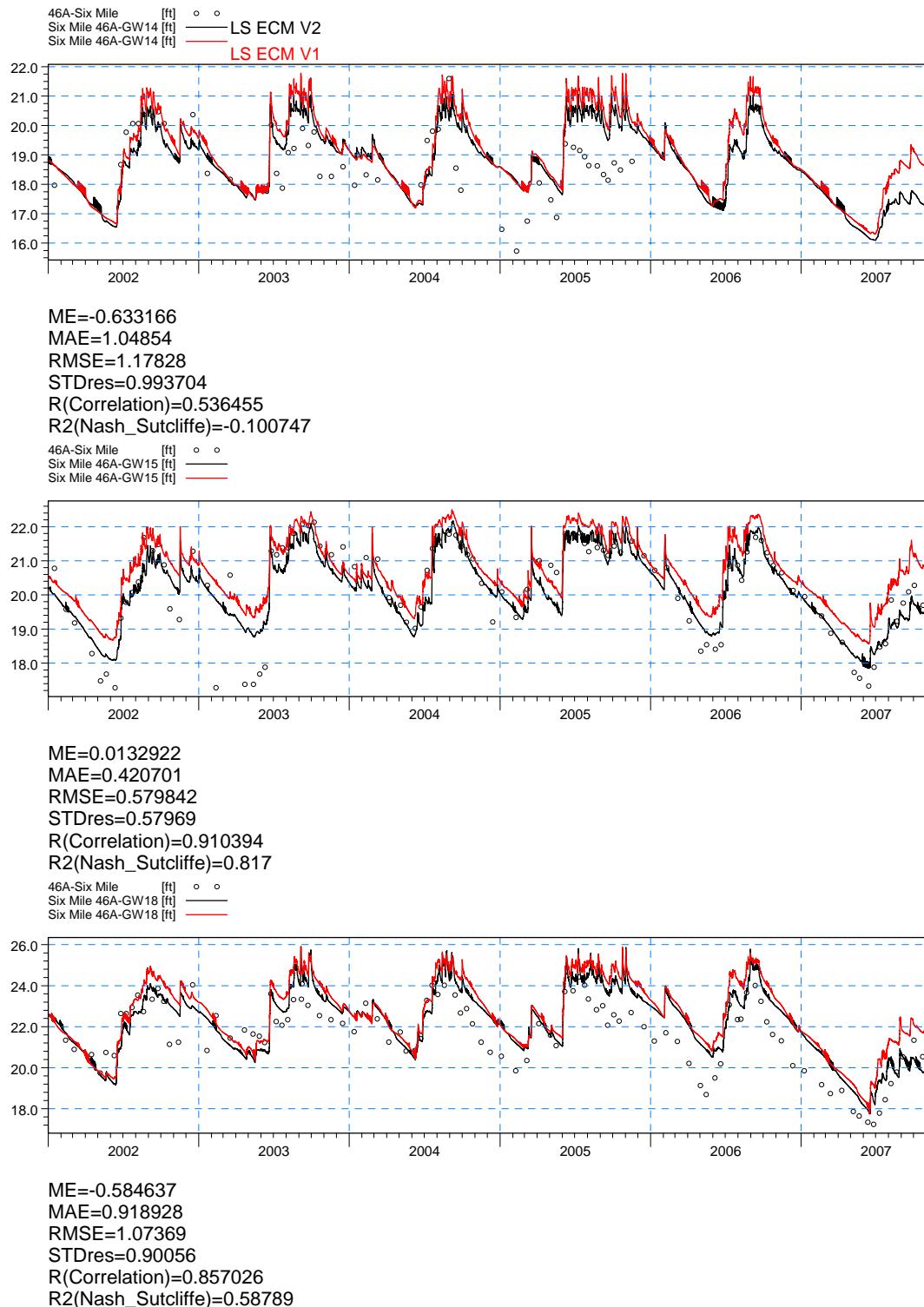


Figure F17. Water level at stations 46A-GW14, 46A-GW15 and 46A-GW18.

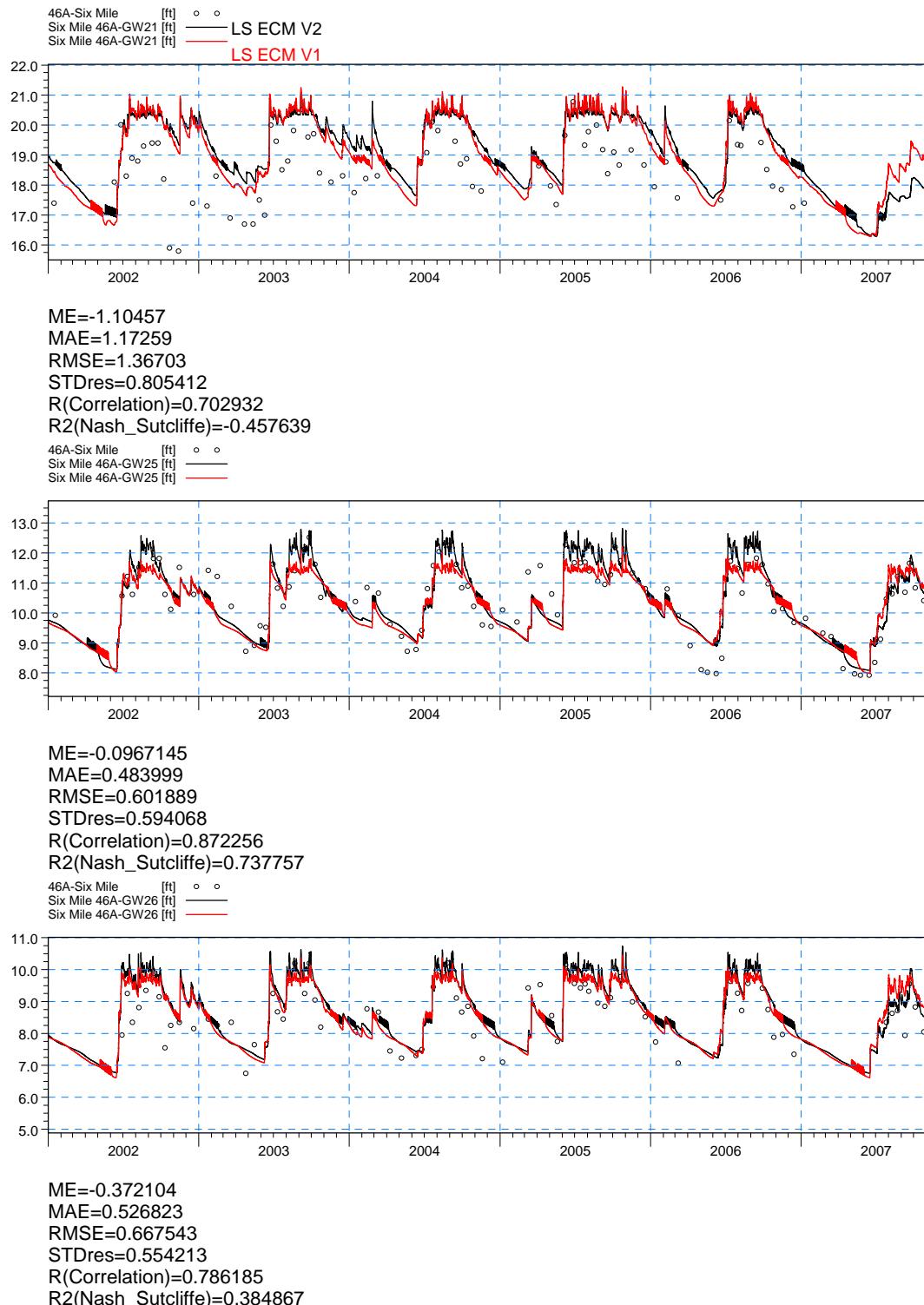


Figure F18. Water level at stations 46A-GW21, 46A-GW25 and 46A-GW26.

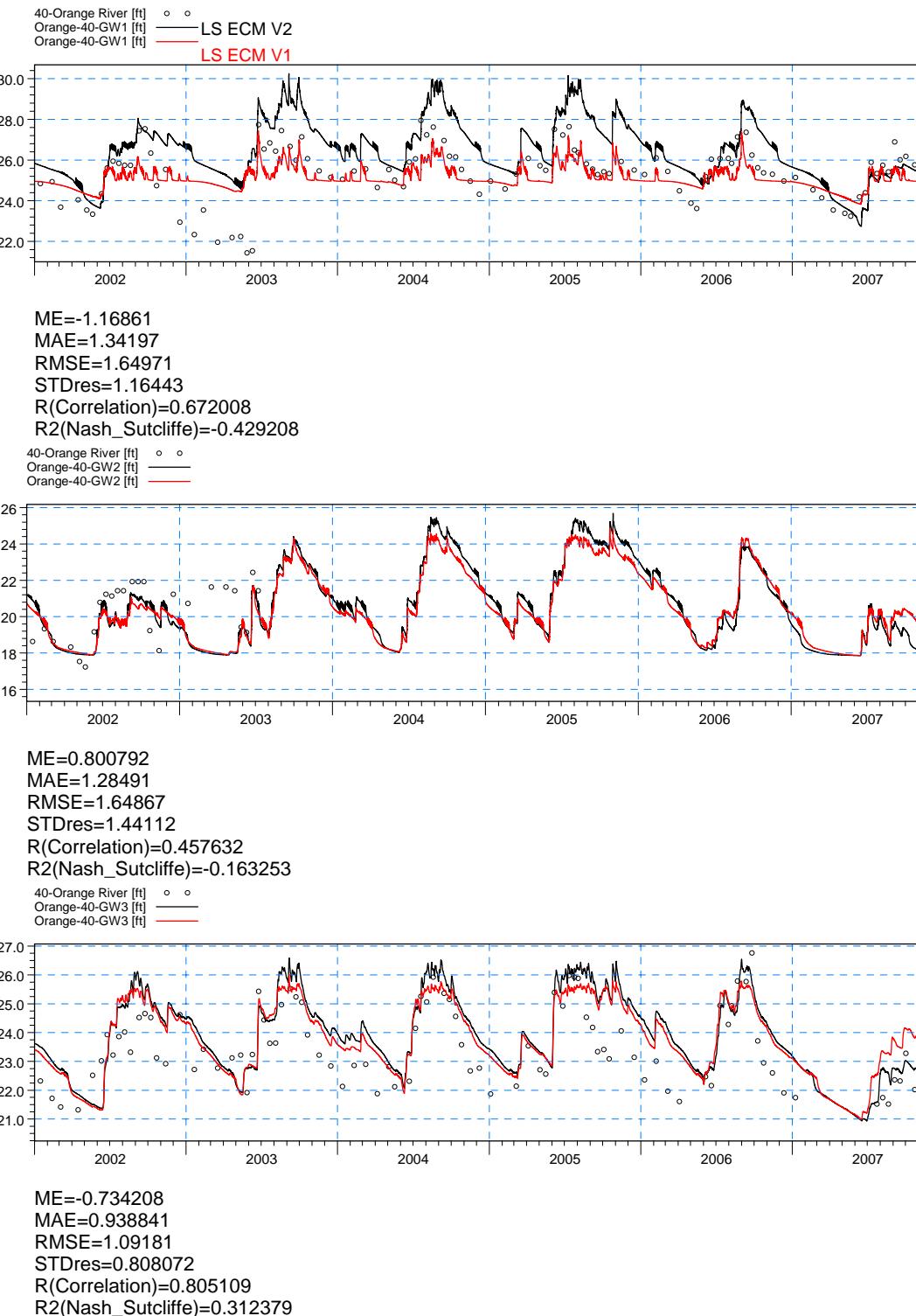


Figure F19. Water level at stations 40-GW1, 40-GW2 and 40-GW3.

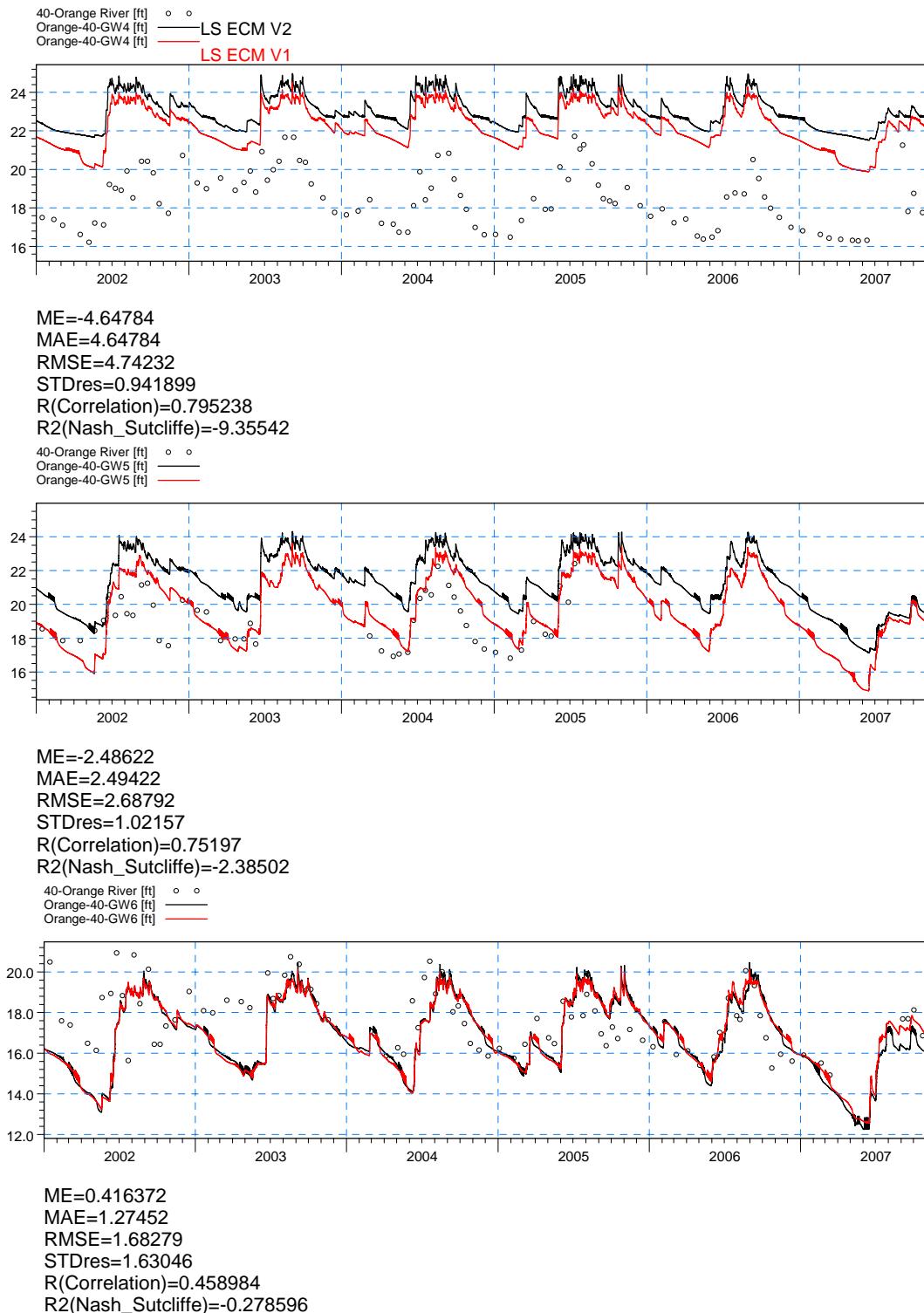


Figure F20. Water level at stations 40-GW4, 40-GW5 and 40-GW6.

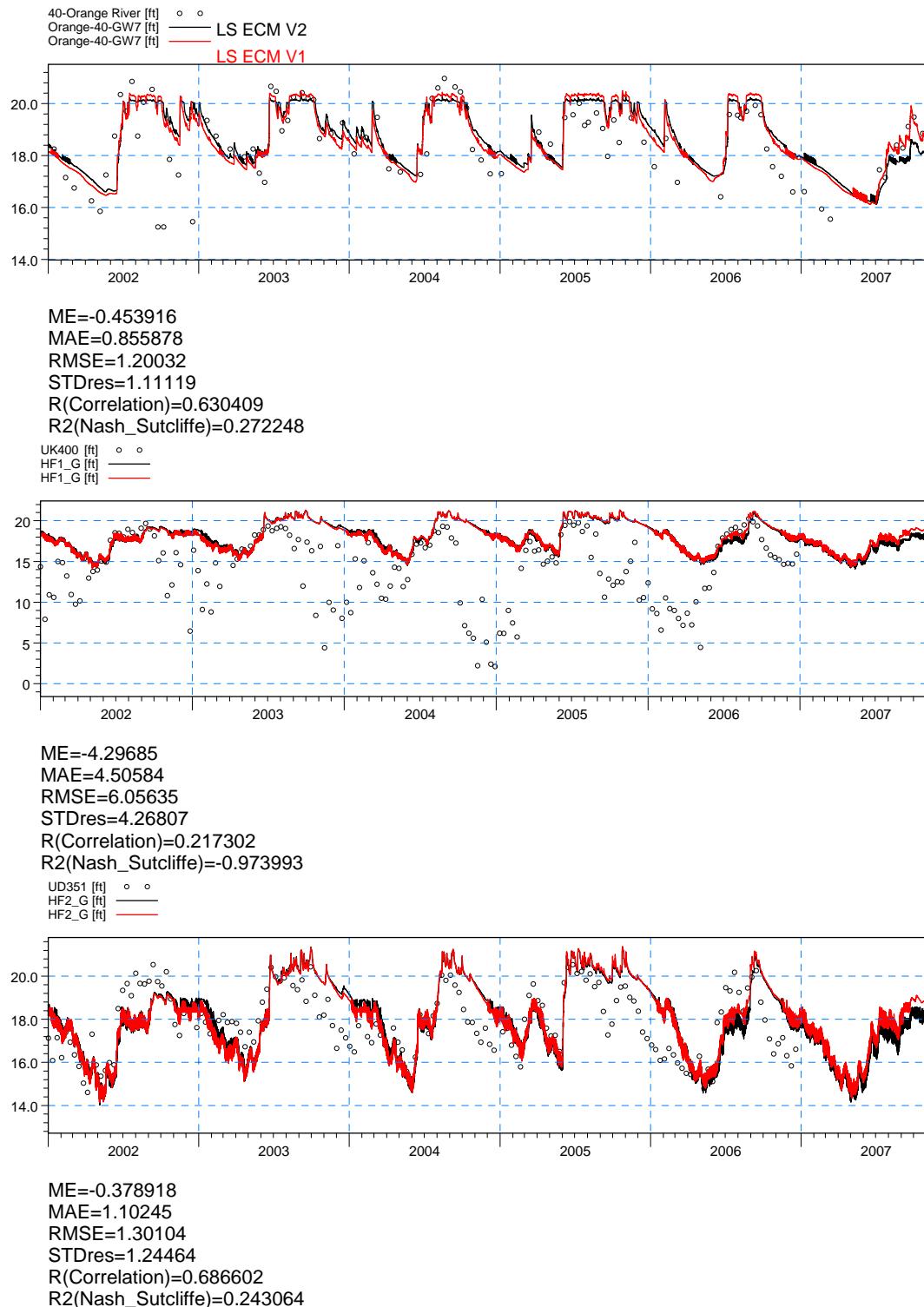


Figure F21. Water level at stations 40-GW7, HF1_G and HF2_G.

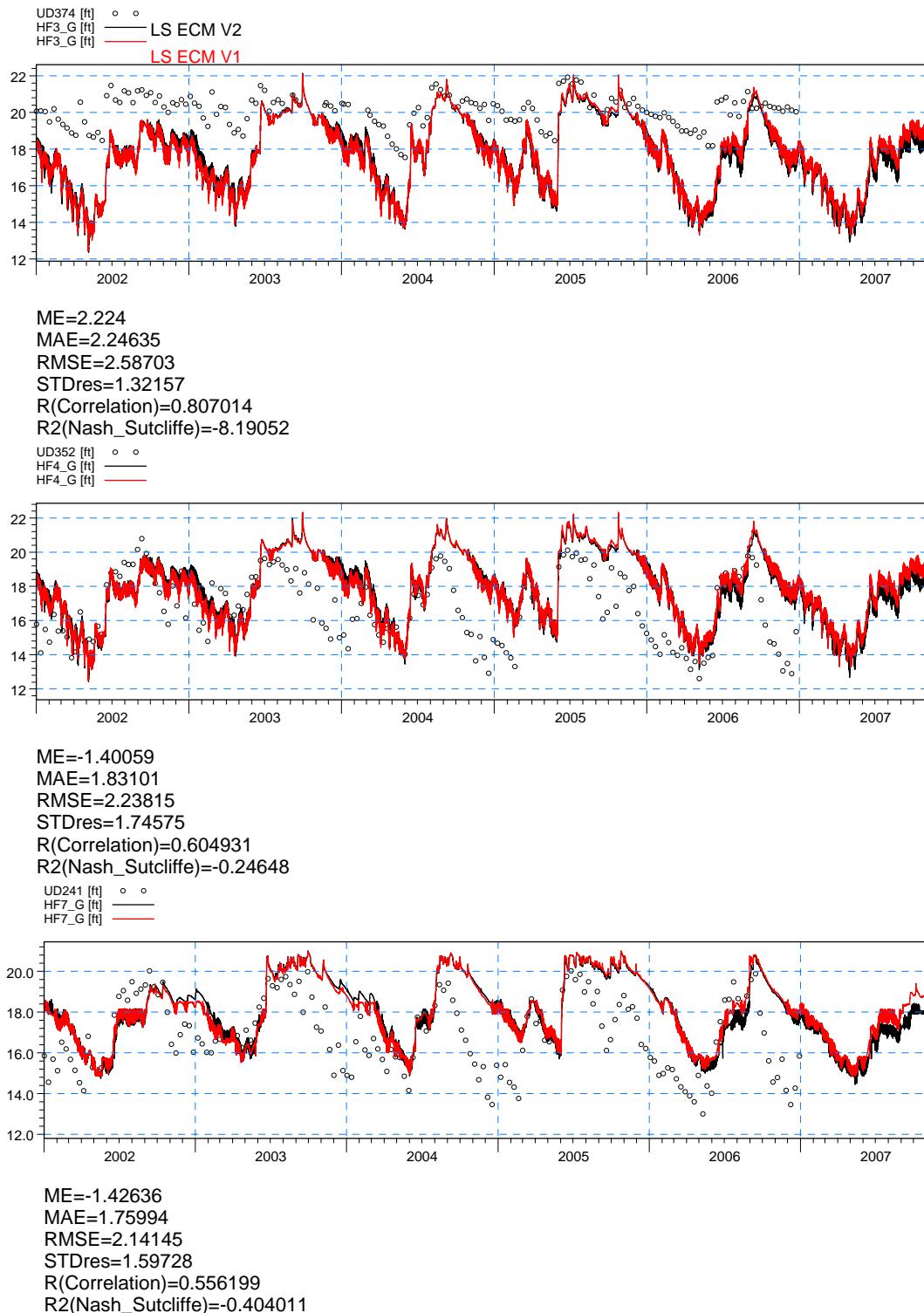


Figure F22. Water level at stations HF3_G, HF4_G and HF7_G.

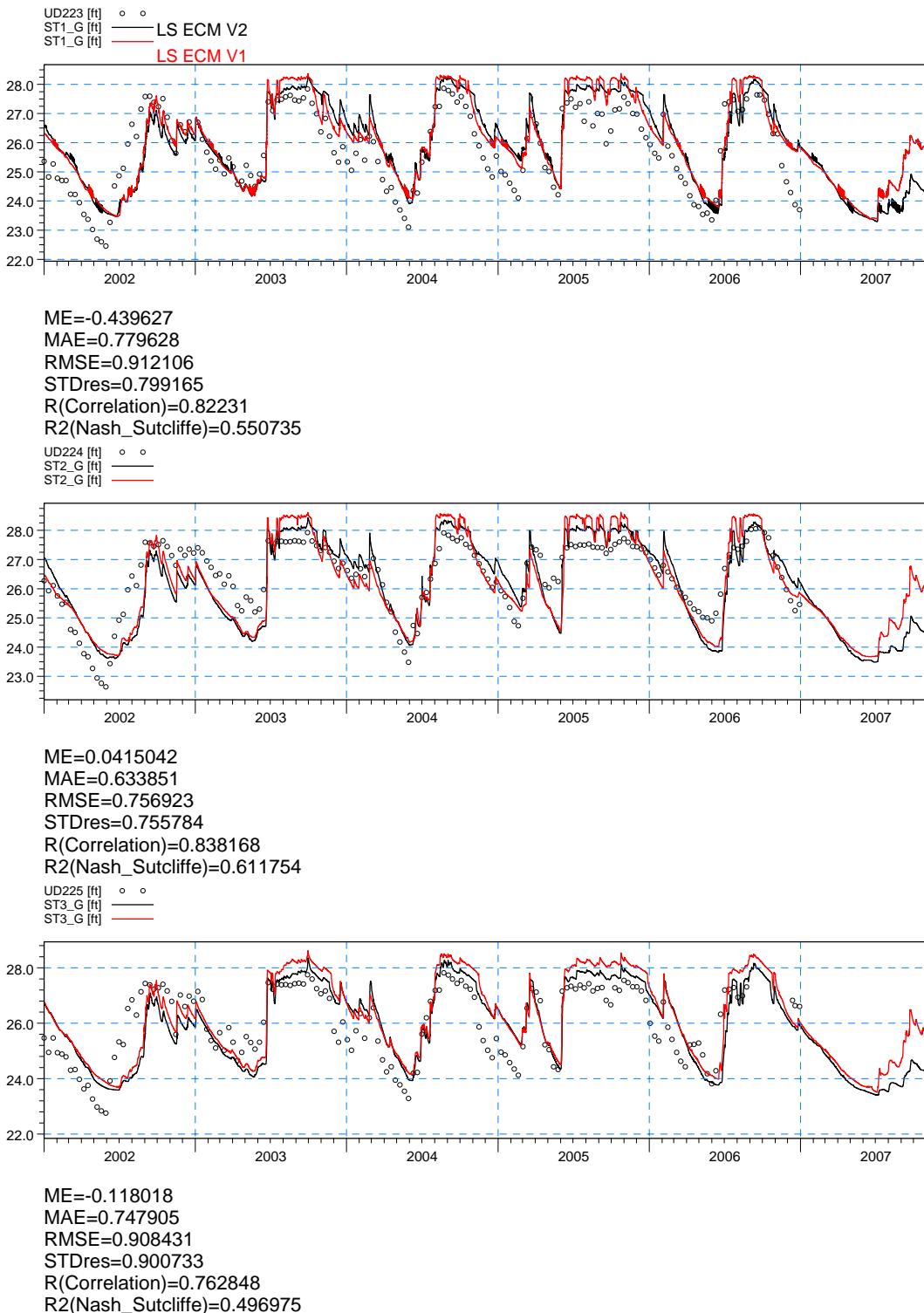


Figure F23. Water level at stations ST1_G, ST2_G and ST3_G.

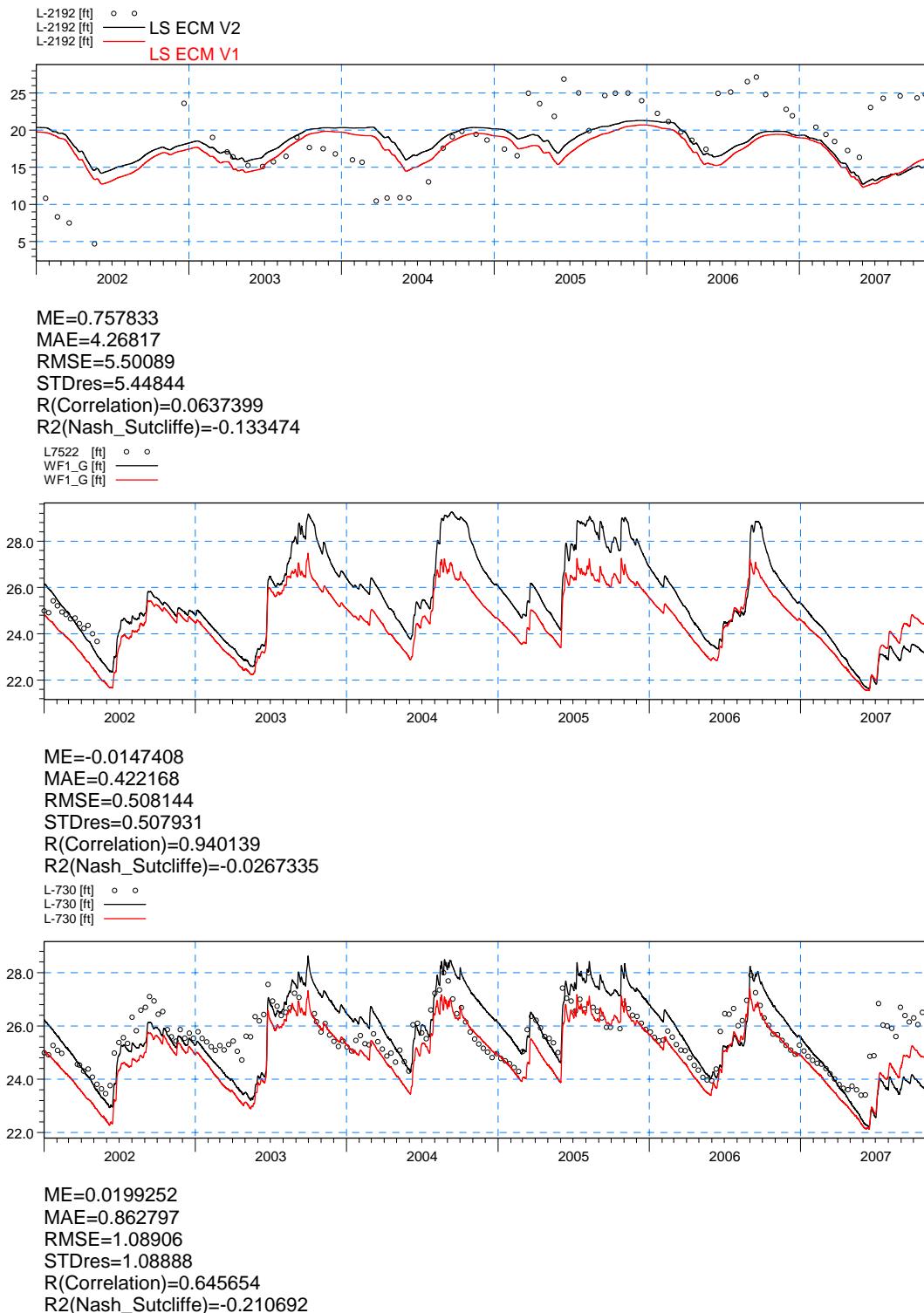


Figure F24. Water level at stations L-2192, WF1_G and L-730.

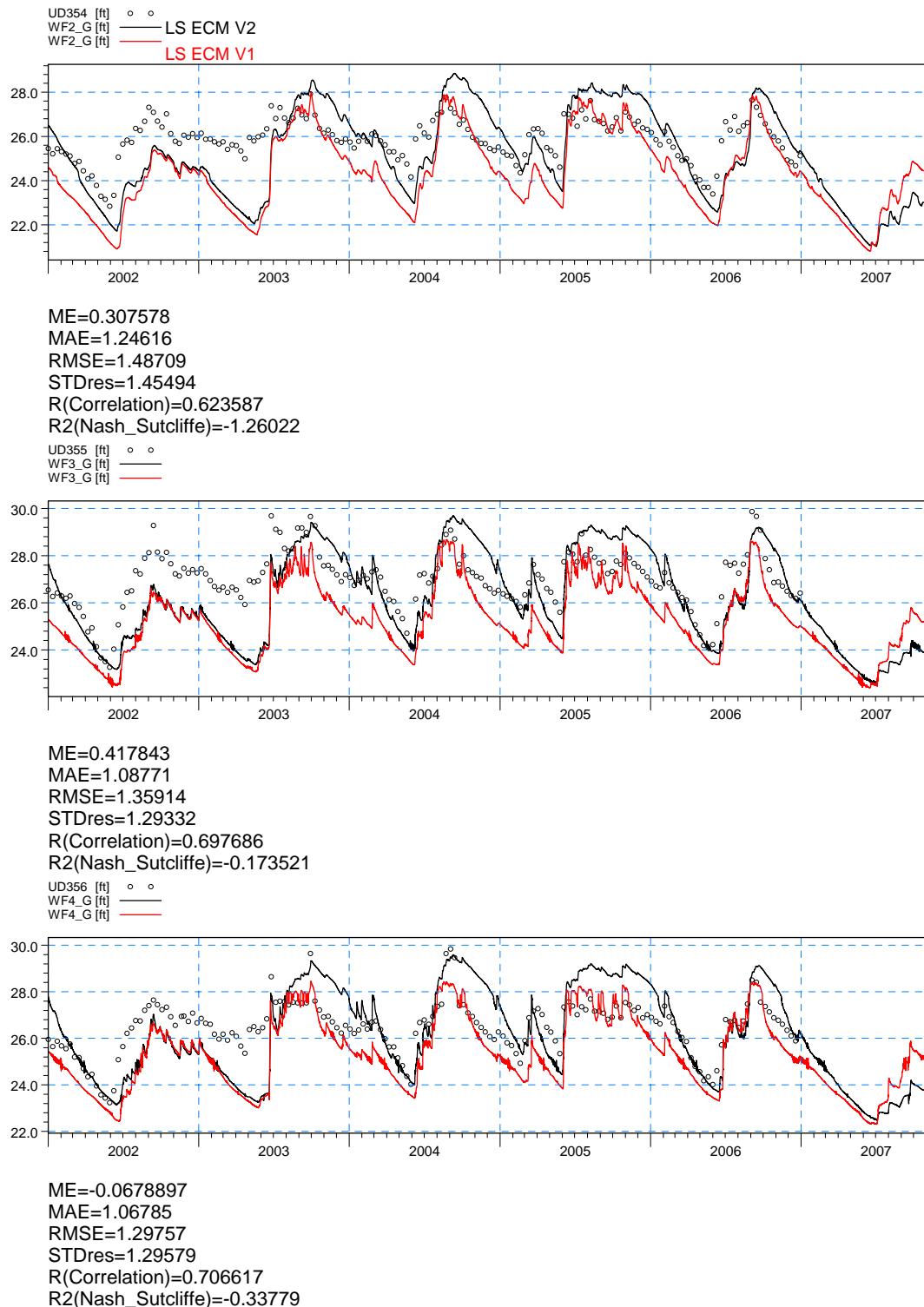


Figure F25. Water level at stations WF2_G, WF3_G and WF4_G.

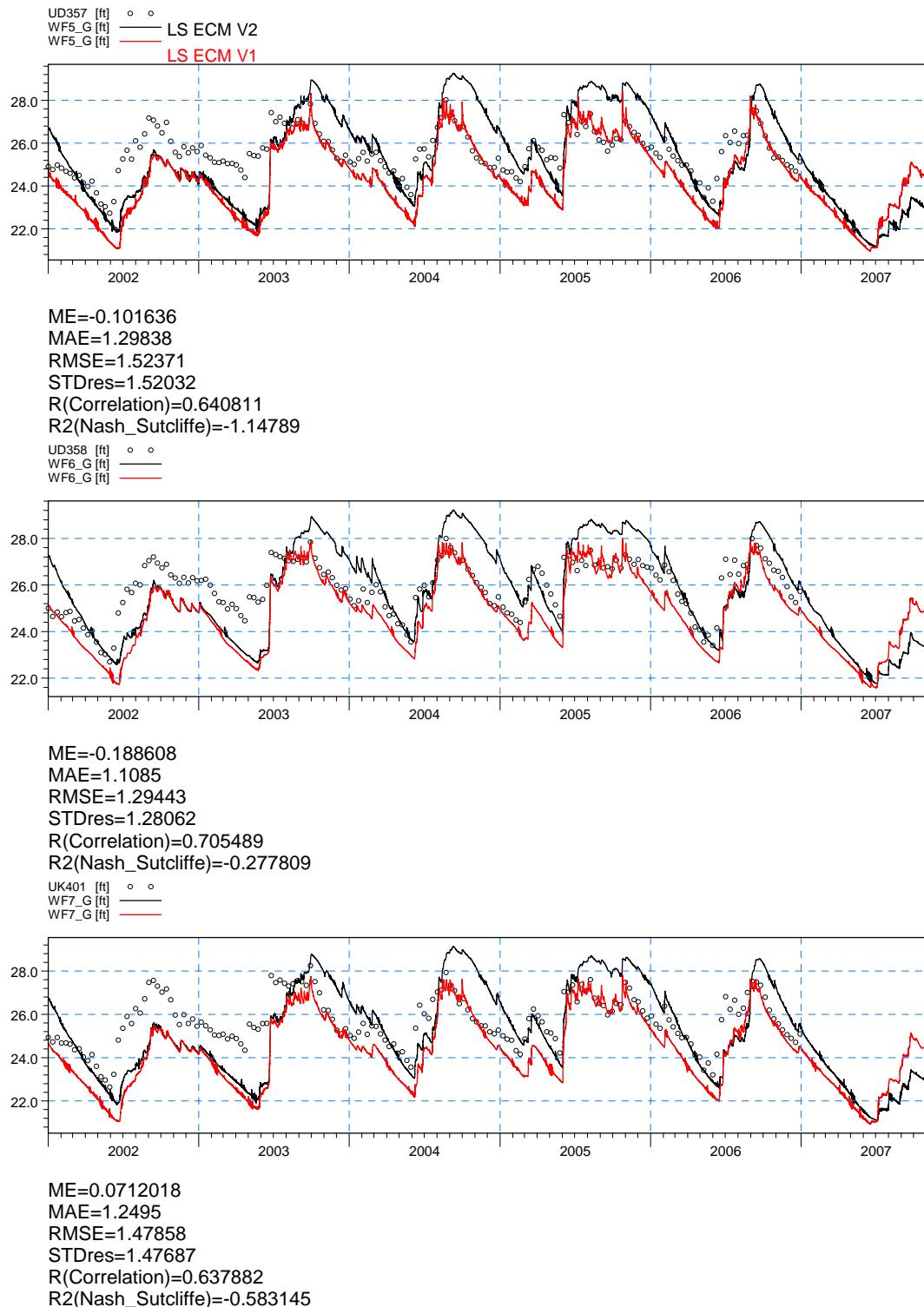


Figure F26. Water level at stations WF5_G, WF6_G and WF7_G.

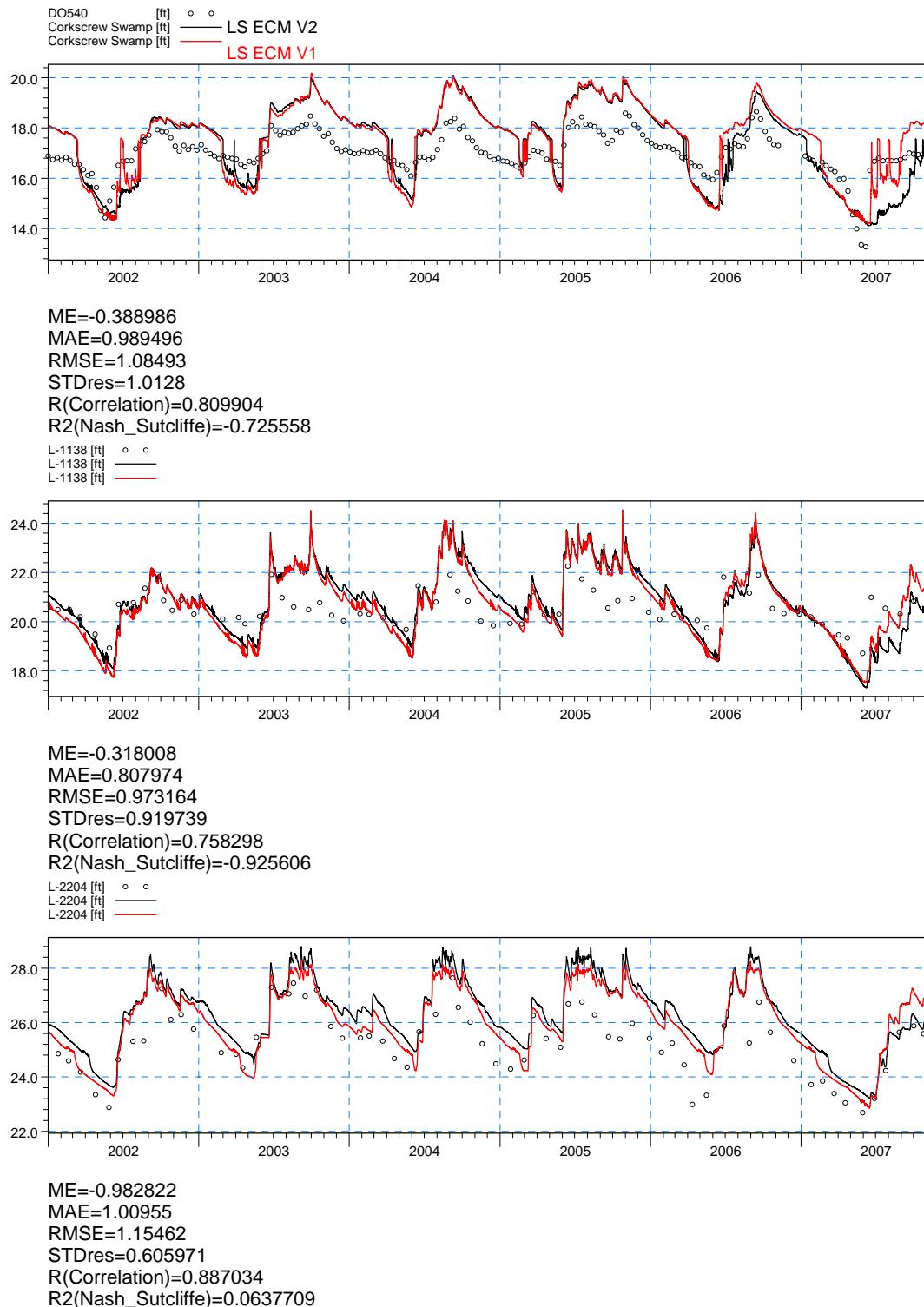


Figure F27. Water level at stations Corkscrew Swamp, L-1138 and L-2204.



Figure F28. Water level at stations L-5664., L-5669R and L-5673.

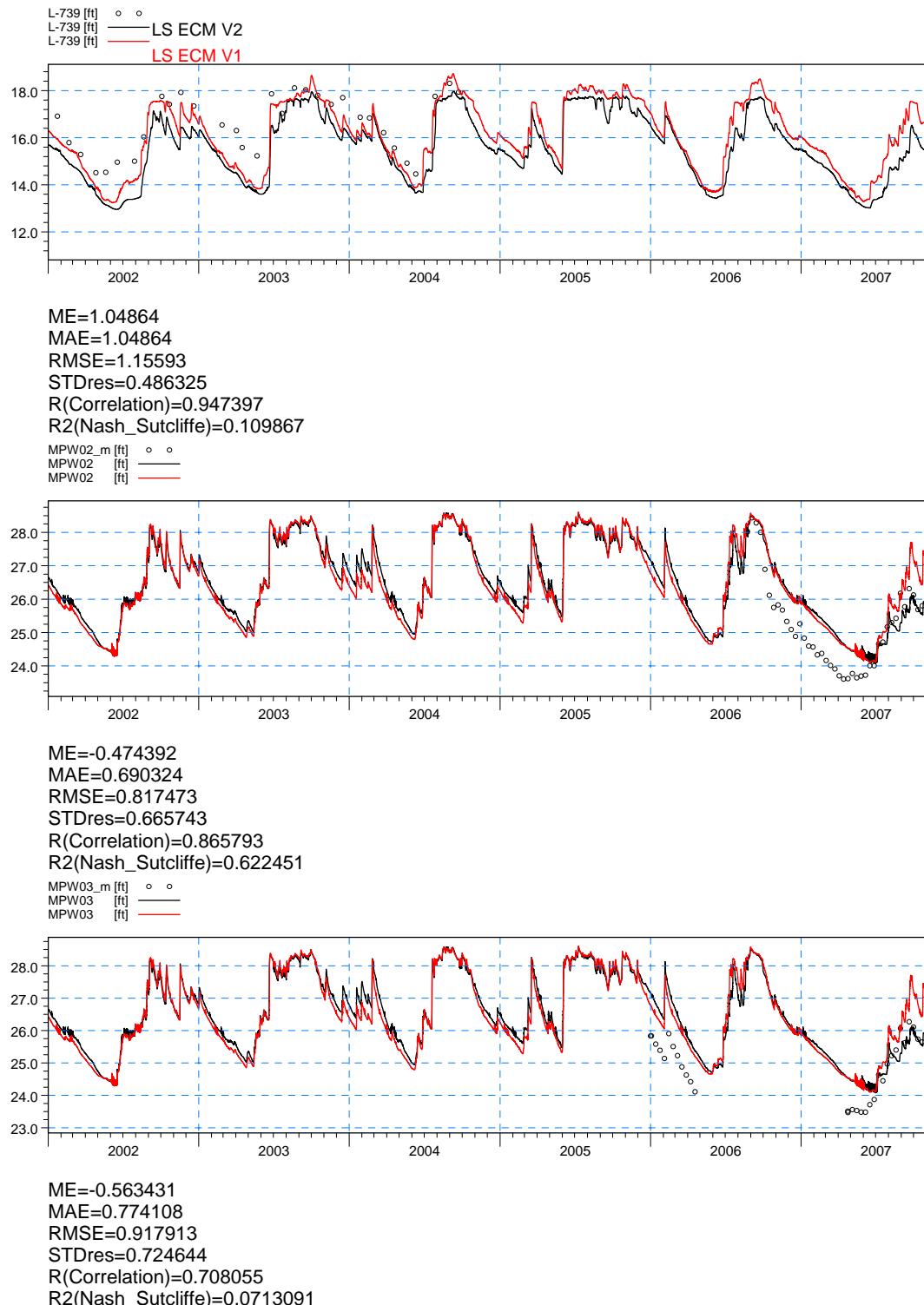


Figure F29. Water level at stations L-739, MPW02 and MPW03.

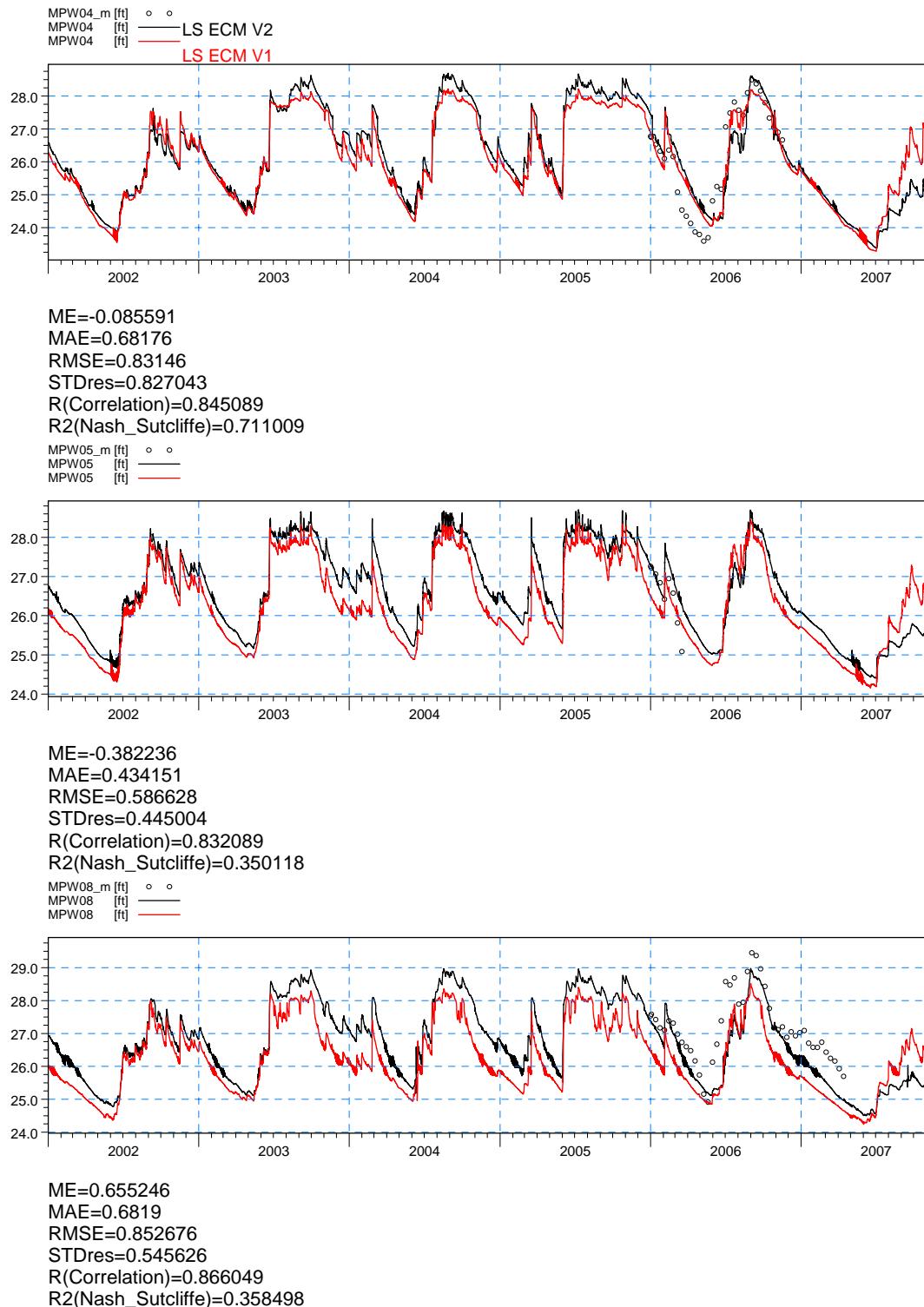


Figure F30. Water level at stations MPW04, MPW05 and MPW08.

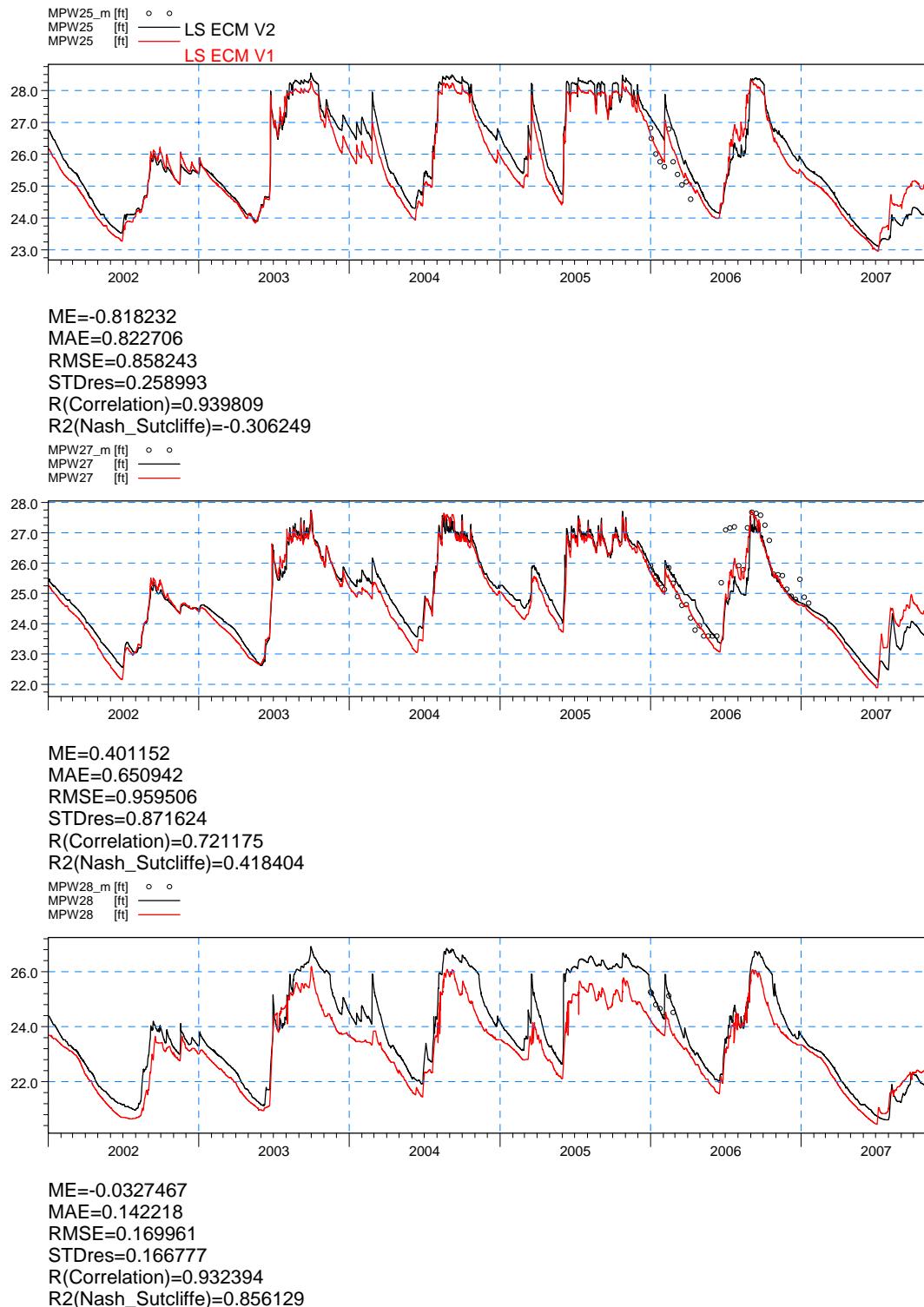


Figure F31. Water level at stations MPW25, MPW27 and MPW28.

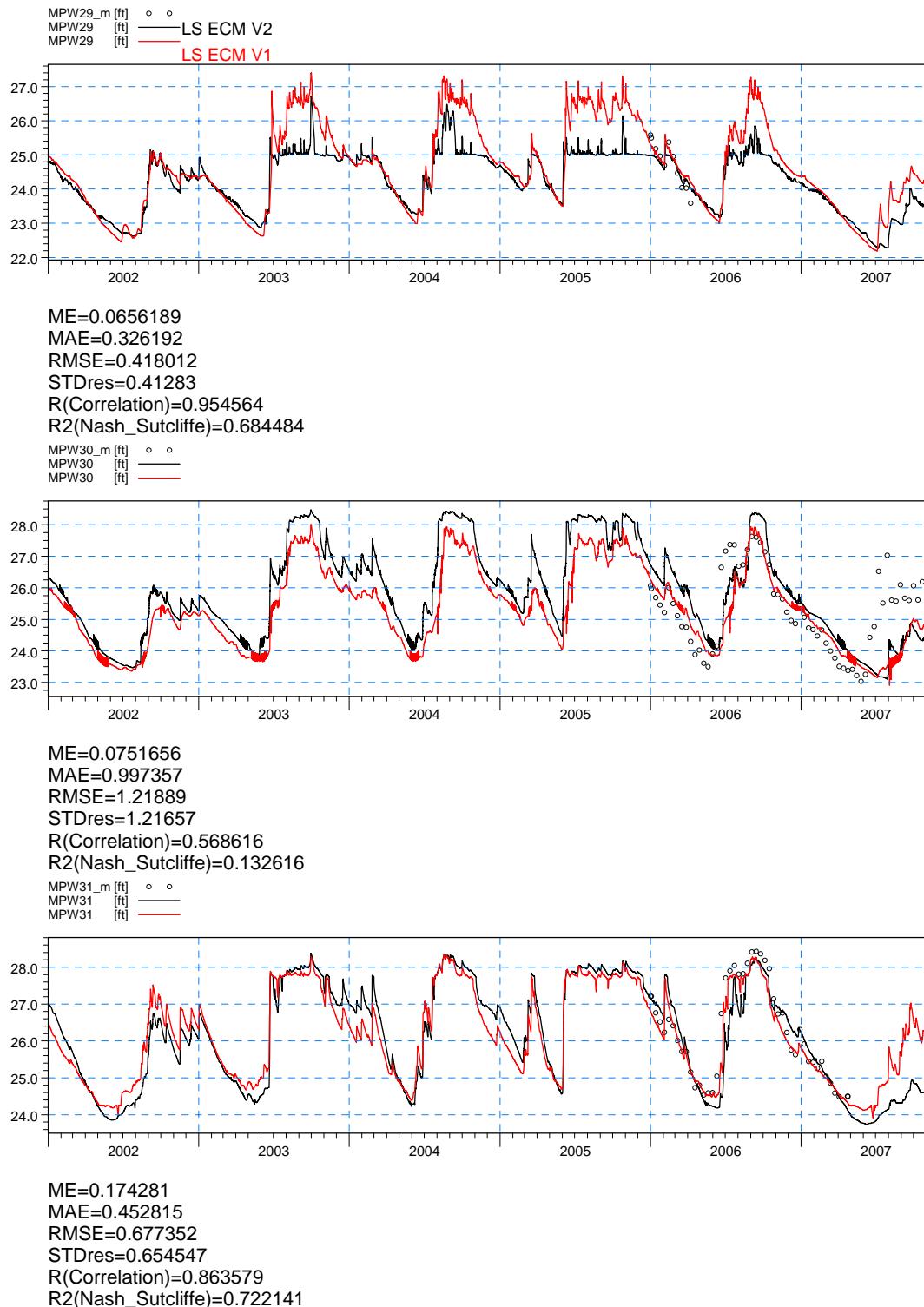


Figure F32. Water level at stations MPW29, MPW30 and MPW31.

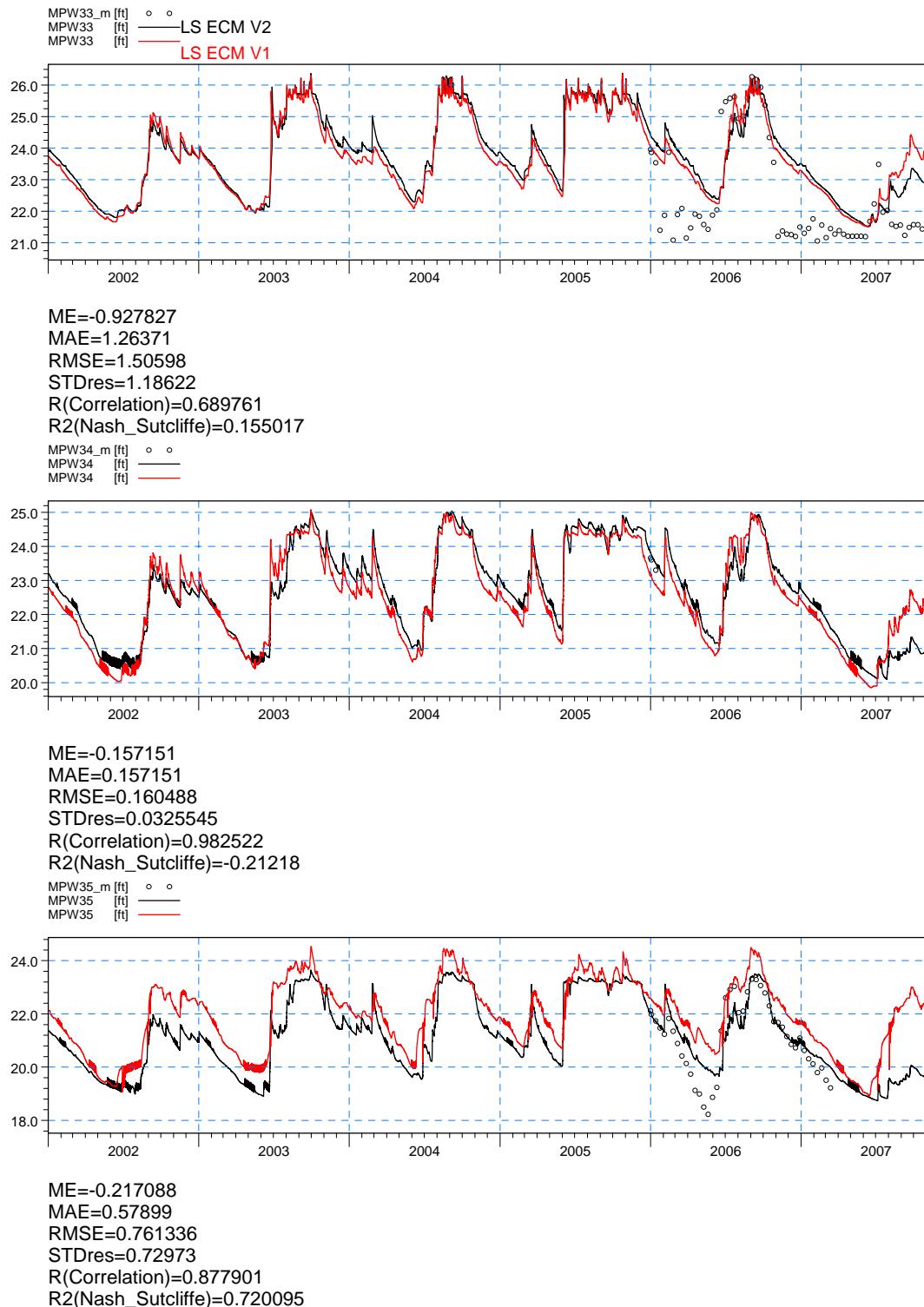


Figure F33. Water level at stations MPW33, MPW34 and MPW35.

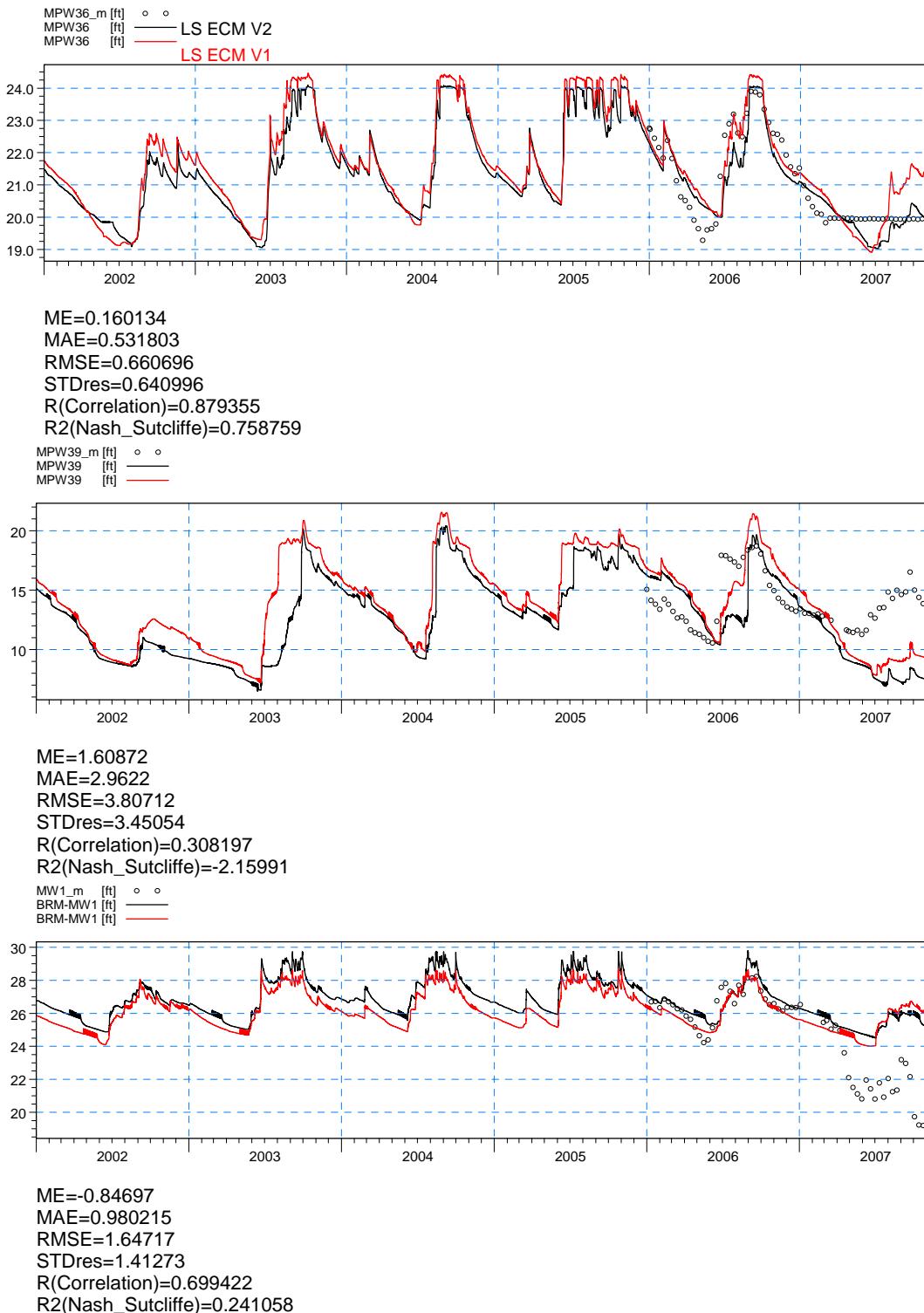


Figure F34. Water level at stations MPW36, MPW39 and MW1.

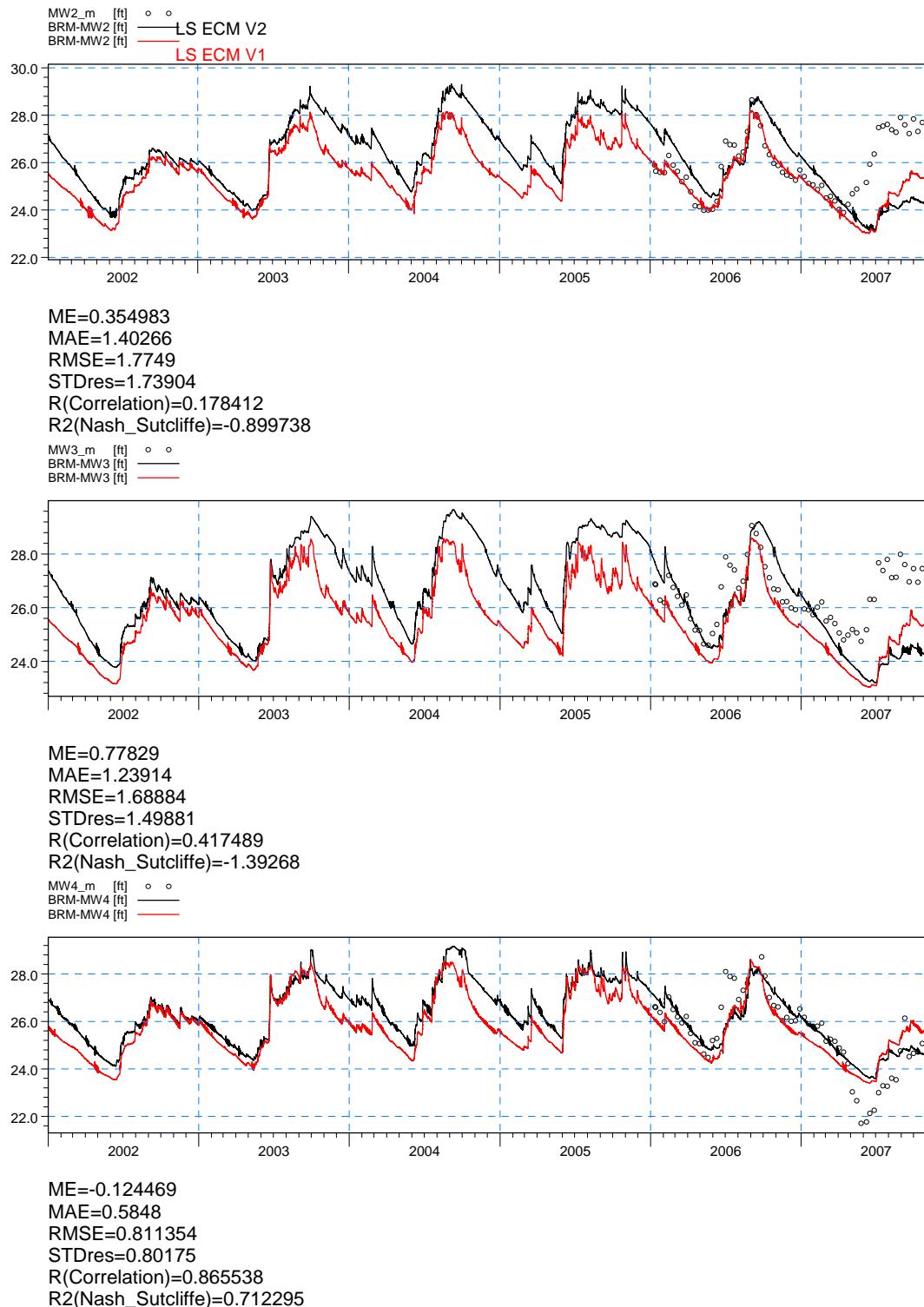


Figure F35. Water level at stations MW2, MW3 and MW4.

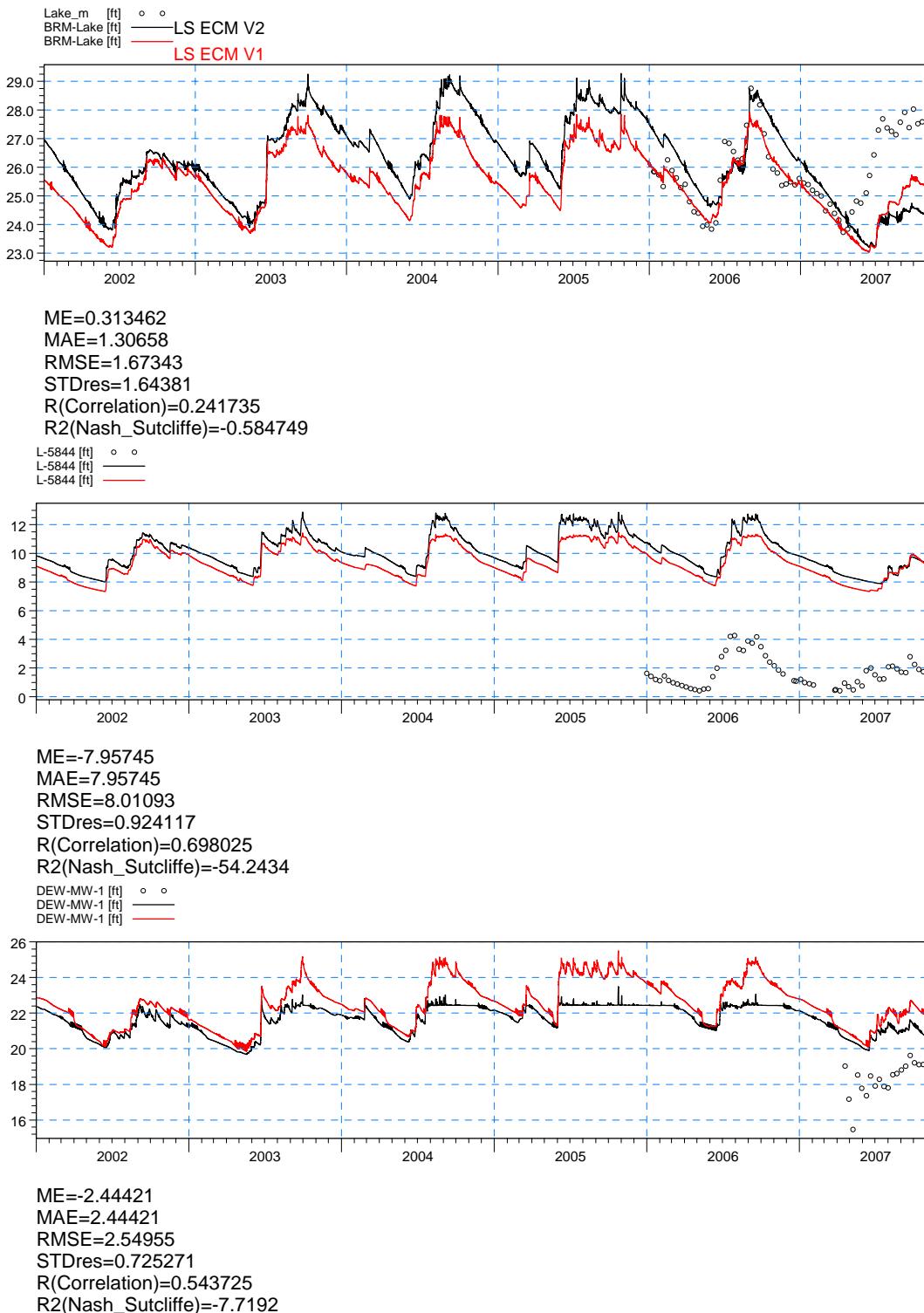


Figure F36. Water level at stations Lake, L-5844 and DEW-MW-1.

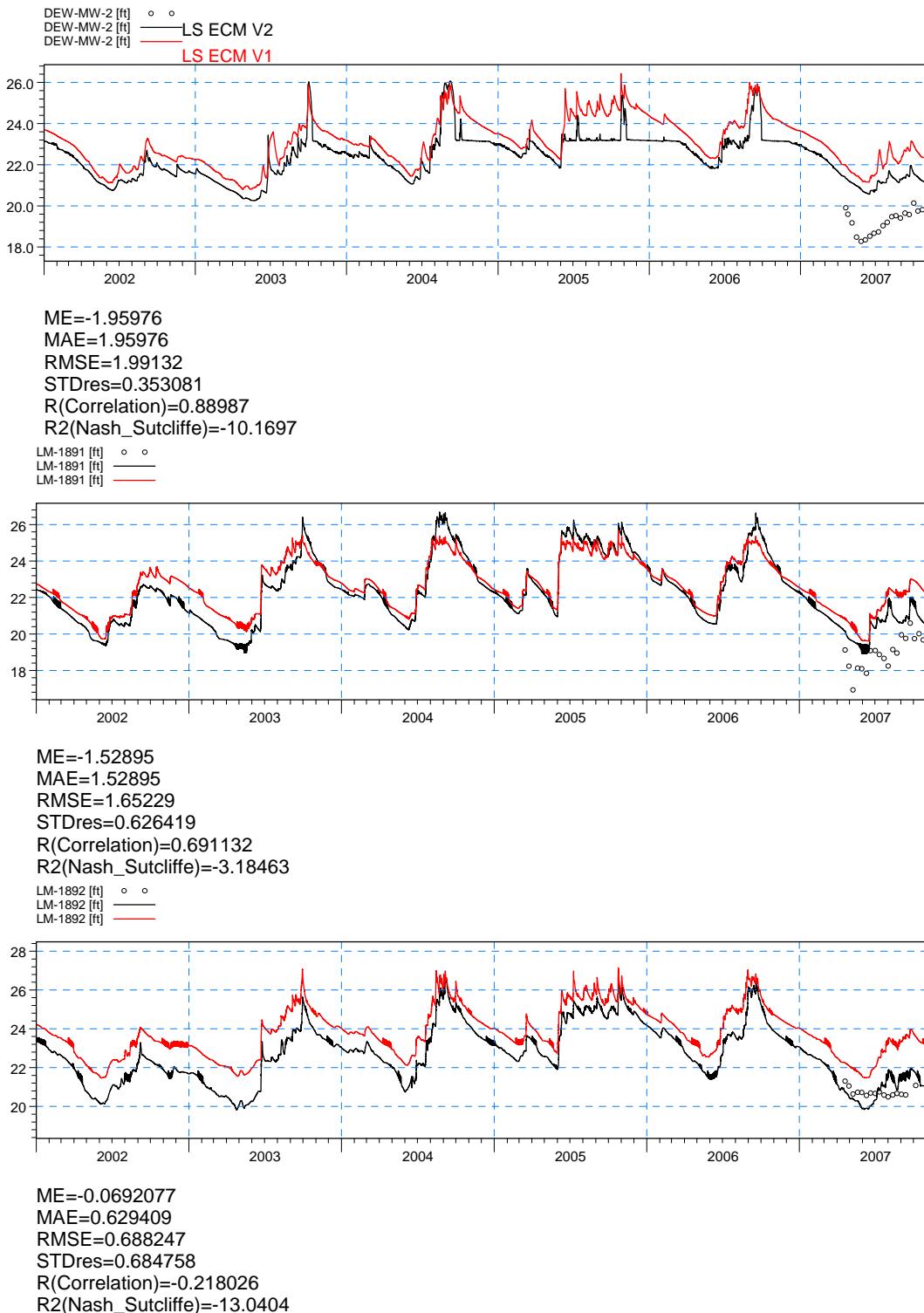


Figure F37. Water level at stations DEW-MW-2, LM-1891 and LM-1892.

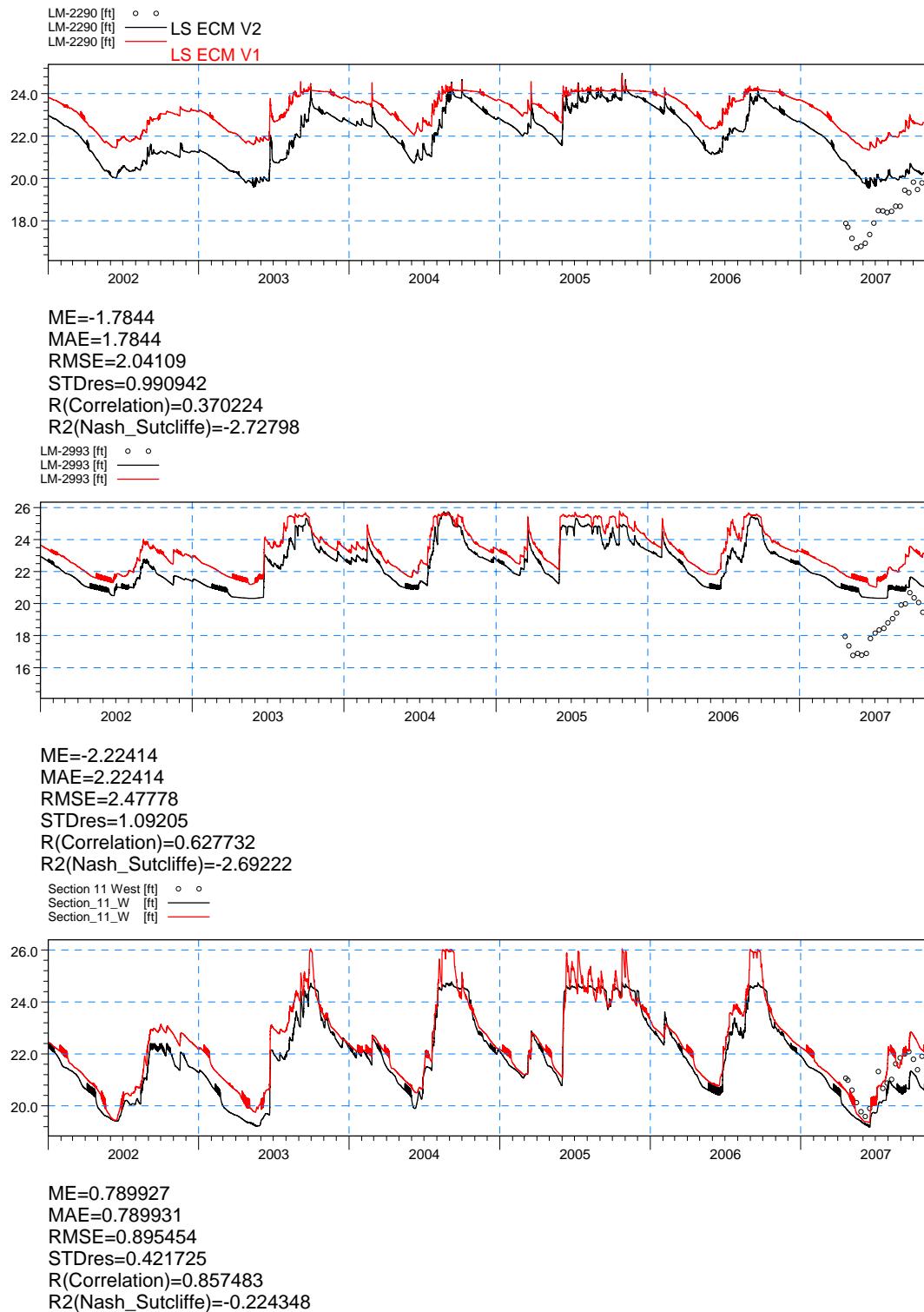
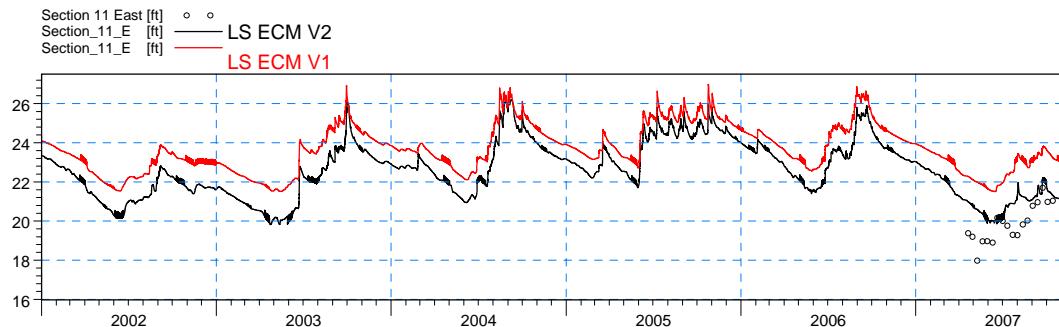
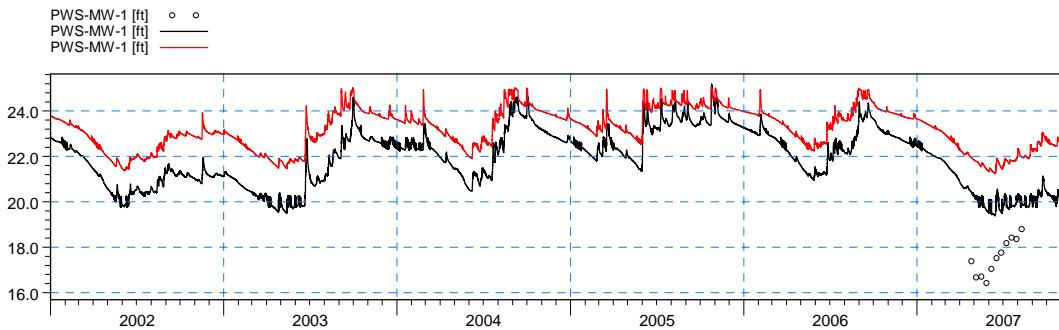


Figure F38. Water level at stations LM-2290, LM-2993 and Section_11_W.



ME=-1.06859
 MAE=1.07931
 RMSE=1.23839
 STDres=0.625884
 R(Correlation)=0.685332
 R2(Nash_Sutcliffe)=-1.07662



ME=-2.37652
 MAE=2.37652
 RMSE=2.53353
 STDres=0.878016
 R(Correlation)=0.18815
 R2(Nash_Sutcliffe)=-7.1626

Figure F39. Water level at stations Section_11_E, and PWS-MW-1.

Surface water stations

Table F3. Statistic parameters at surface water stations.

Name	LS ECM V1					LS ECM V2				
	ME (ft)	MAE (ft)	RMSE (ft)	R	PL	ME (ft)	MAE (ft)	RMSE (ft)	R	PL
KehlCan_HW	1.05	1.66	2.07	0.68	2.5	1.57	1.78	2.21	0.75	2.5
KehlCan_TW	0.08	0.64	0.98	0.93	1.0	-0.34	0.81	0.95	0.96	1.3
S-SF-1_HW	0.23	0.28	0.32	0.82	1.0	0.24	0.26	0.29	0.87	1.0
S-SF-1_Q	---	---	---	0.70	1.0	---	---	---	0.74	2.0
S-SF-1_TW	-0.02	0.30	0.48	0.44	1.5	-0.01	0.30	0.45	0.44	1.5
S-NM-2_HW	0.00	0.19	0.24	0.60	1.3	-0.01	0.19	0.25	0.57	1.5
S-NM-2_Q	---	---	---	0.41	3.0	---	---	---	0.46	3.0
S-NM-2_TW	0.80	1.04	1.16	0.43	2.3	0.84	1.07	1.20	0.43	2.3
S-YT-2_HW	1.63	1.74	1.96	0.76	2.3	1.42	1.51	1.70	0.71	2.0
Mullock Creek	0.78	0.83	0.86	0.65	1.5	0.81	0.84	0.88	0.66	1.8
EsteroRiv	2.04	2.05	2.17	0.76	2.5	-0.34	0.83	1.18	0.78	1.8
EsteroRiv Q	---	---	---	0.67	2.0	---	---	---	0.80	2.0
EsteroRivS	0.08	0.79	1.03	0.81	1.3	-0.89	0.96	1.48	0.77	2.0
EsteroRivS Q	---	---	---	0.77	1.0	---	---	---	0.75	2.0
SpringCRSS	0.17	0.30	0.43	0.59	1.3	0.16	0.31	0.44	0.58	1.5
SpringCRSS Q	---	---	---	0.69	2.0	---	---	---	0.74	2.0
Imperial	-0.06	0.74	1.16	0.88	1.3	-0.38	1.18	1.35	0.92	1.5
Imperial Q	---	---	---	0.79	1.0	---	---	---	0.83	1.0
Halfway_S HW	-1.24	1.24	1.36	0.78	1.8	0.78	0.89	1.01	0.48	2.0
Halfway_S TW	0.27	0.27	0.28	0.56	1.3	0.96	0.96	1.28	0.00	2.3
Copperleaf	-0.88	0.88	0.98	0.84	1.5	1.69	1.70	1.84	0.66	2.5
HalfwayCrDS HW	-0.96	0.96	1.05	0.91	1.8	1.71	1.72	1.84	0.79	2.5
HalfwayCrDS TW	0.13	0.27	0.31	0.81	1.0	1.75	1.77	1.97	0.00	2.8

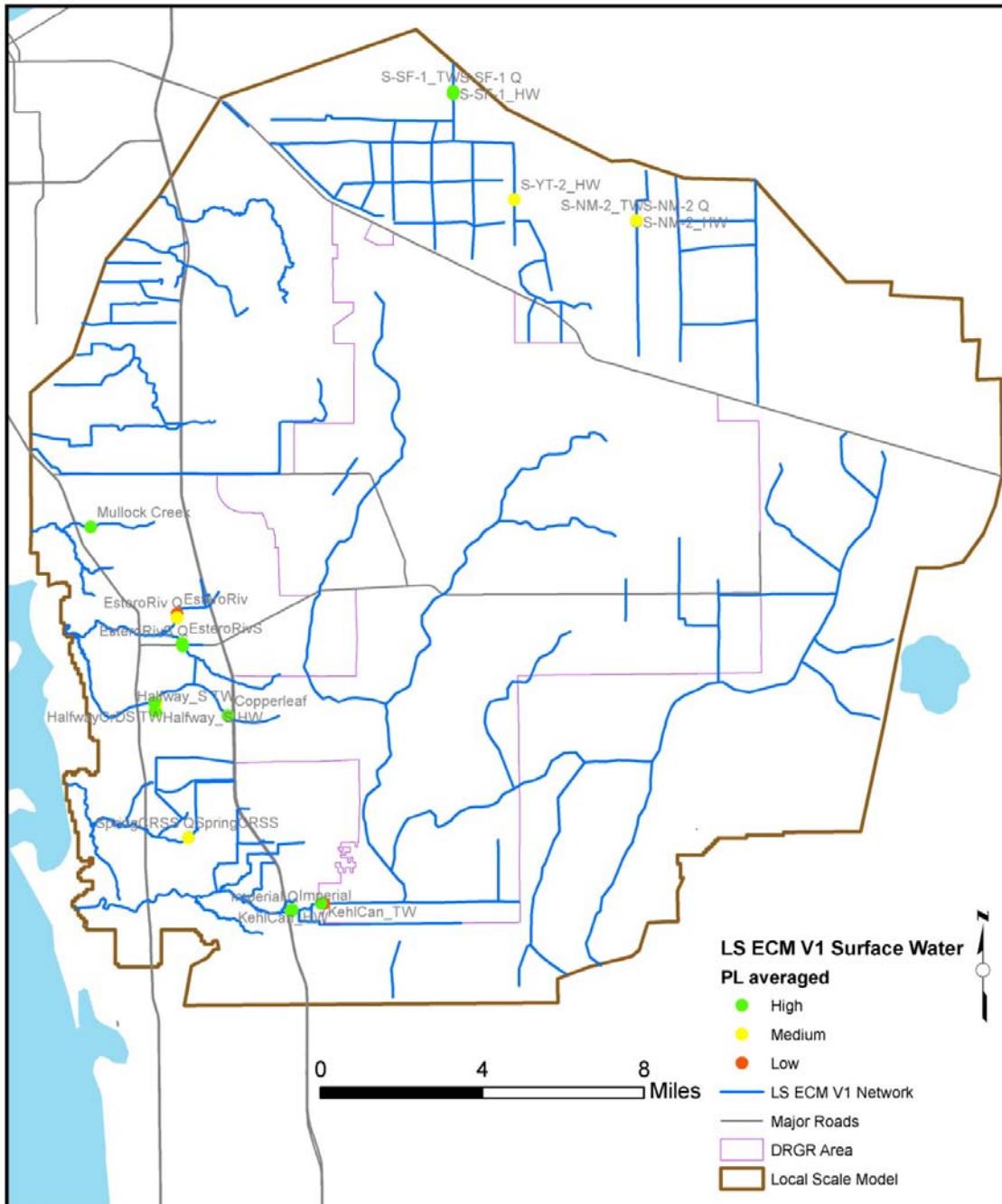


Figure F40. Average performance levels in surface water stations from previous (V1) model.

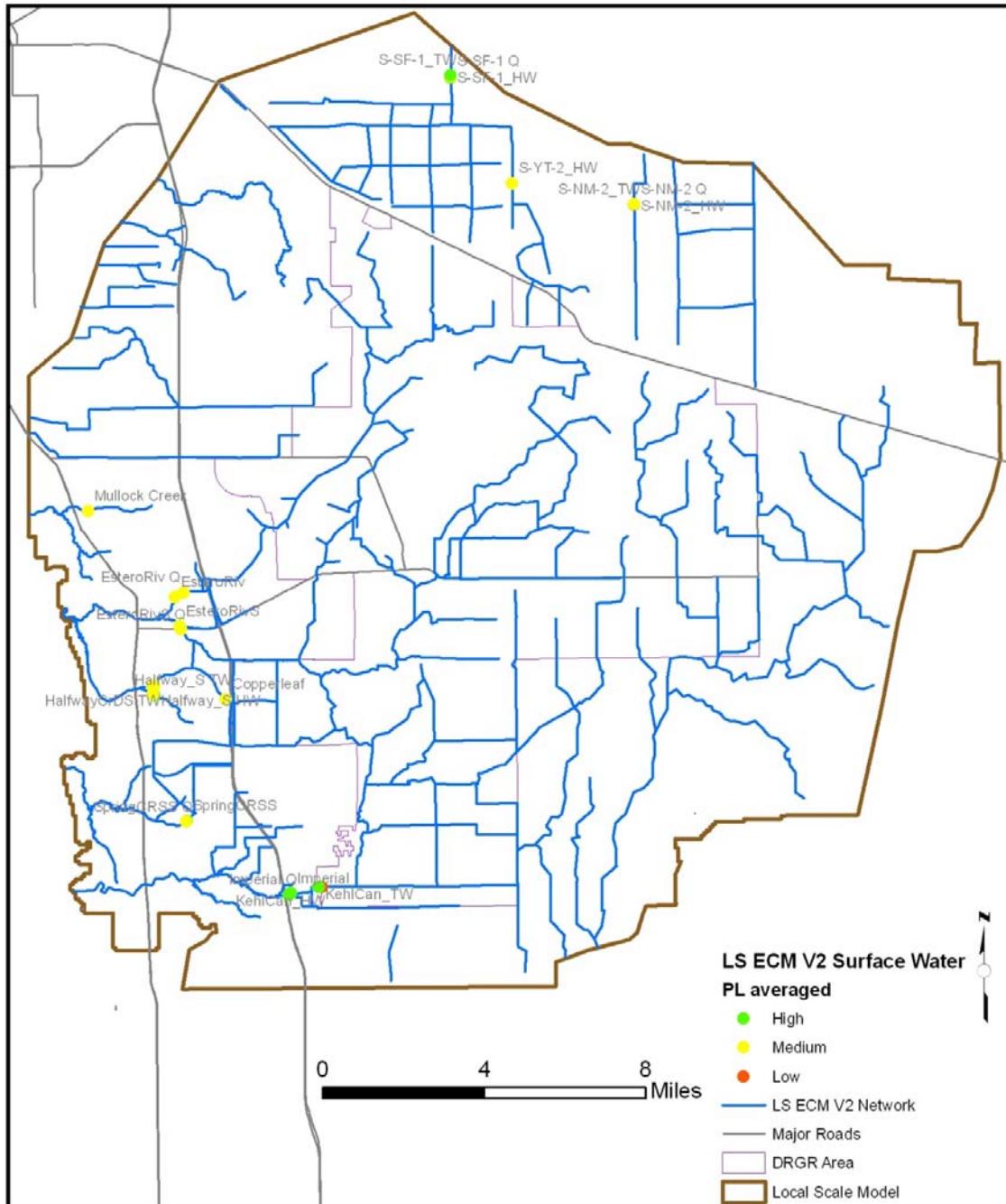


Figure F41. Average performance levels in surface water stations from new (V2) model.

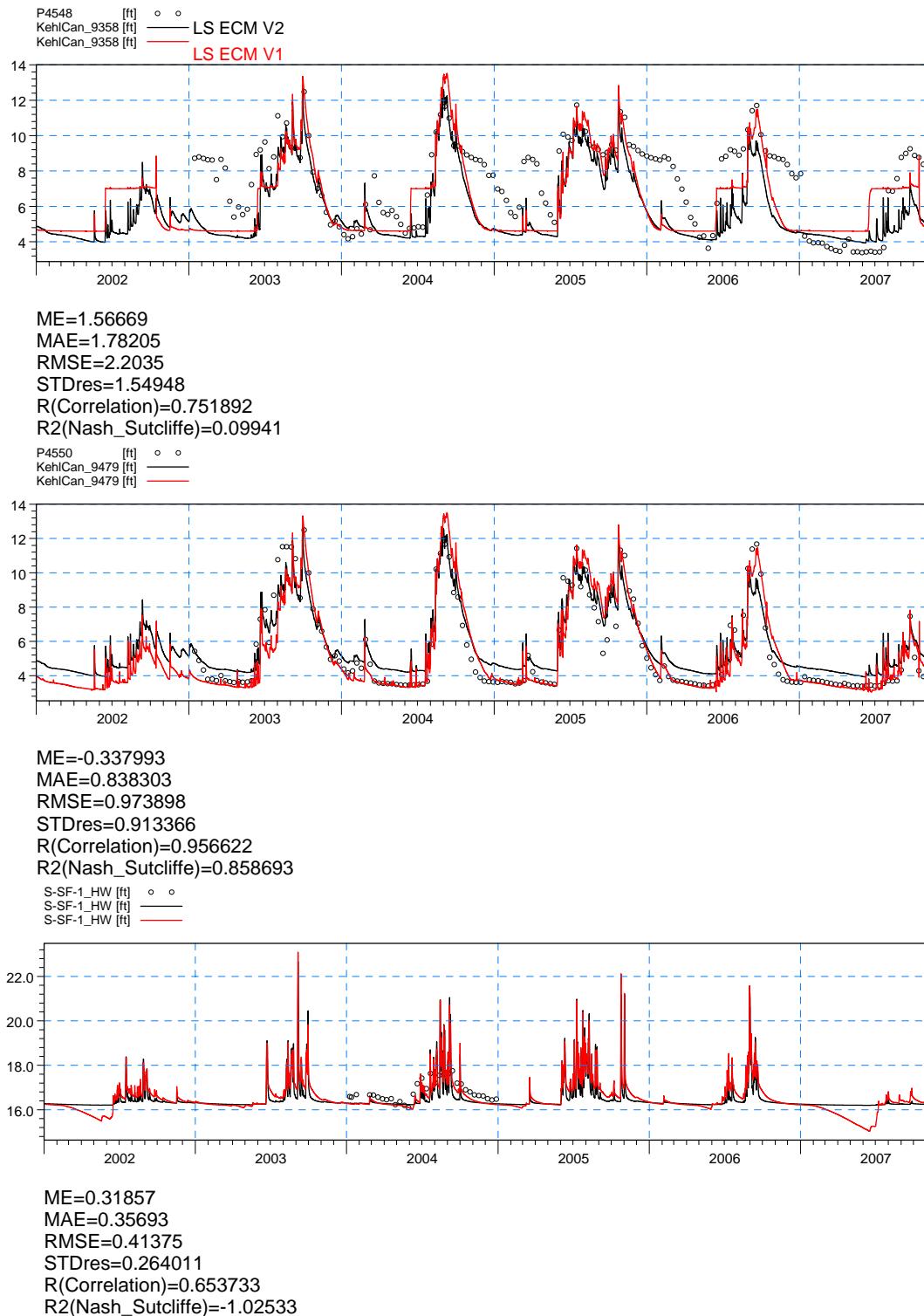


Figure F42. Comparison plots at surface water stations KehlCan_HW, KehlCan_TW and S-SF-1_HW.

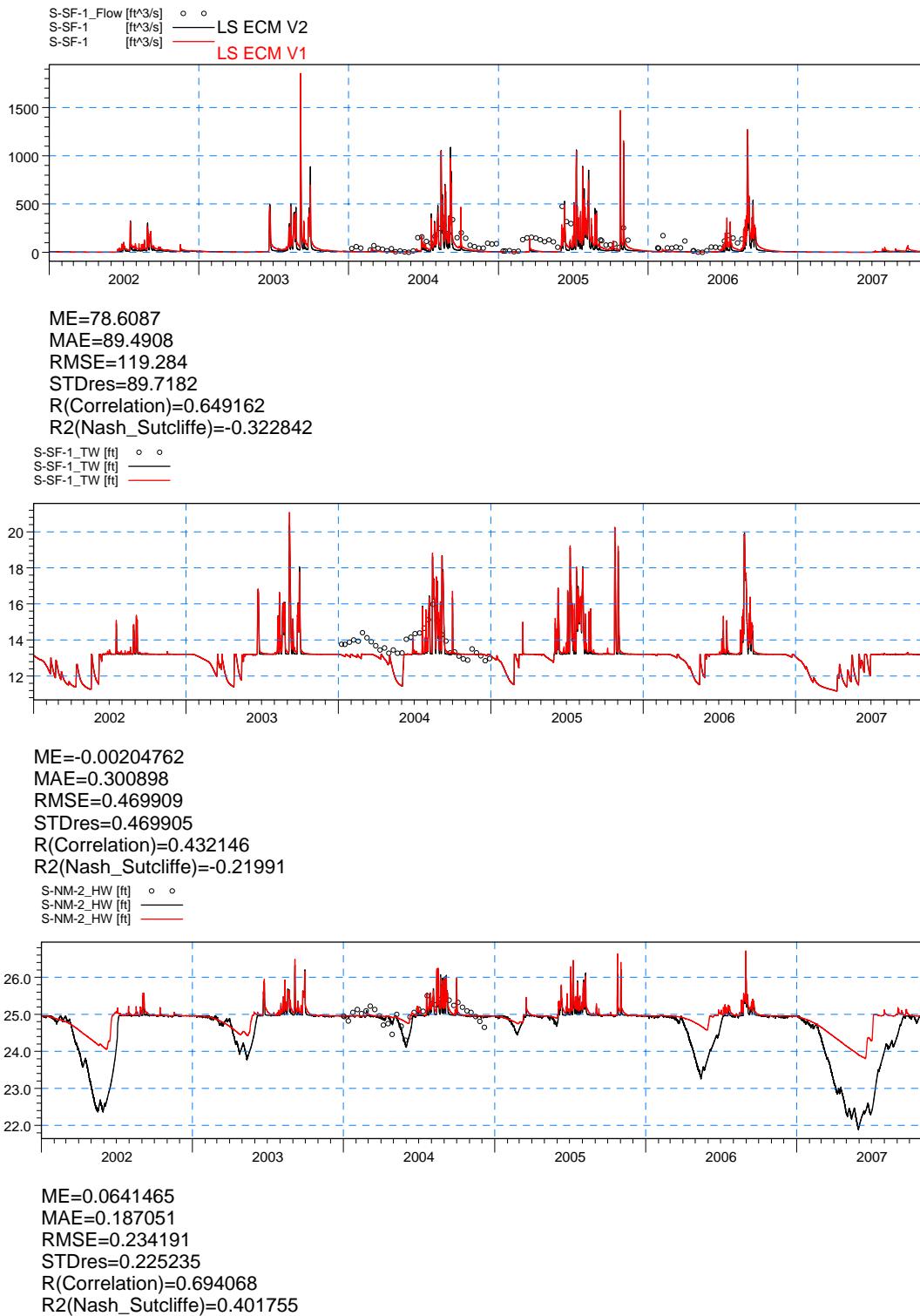


Figure F43. Comparison plots at surface water stations S-SF-1 Q, S-SF-1_TW and S-NM-2_HW.

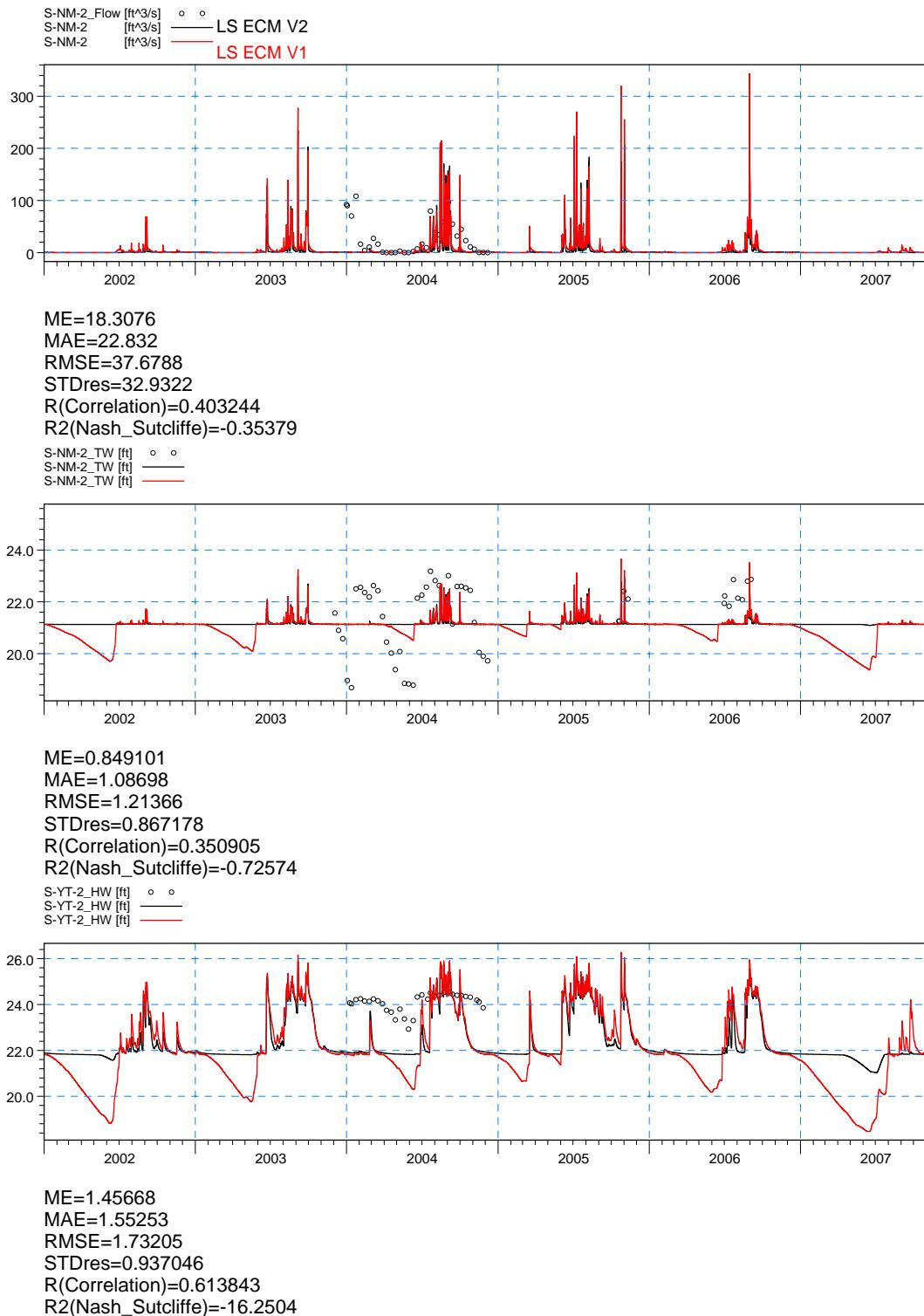


Figure F44. Comparison plots at surface water stations S-NM-2 Q, S-NM-2_TW and S-YT-2_HW.

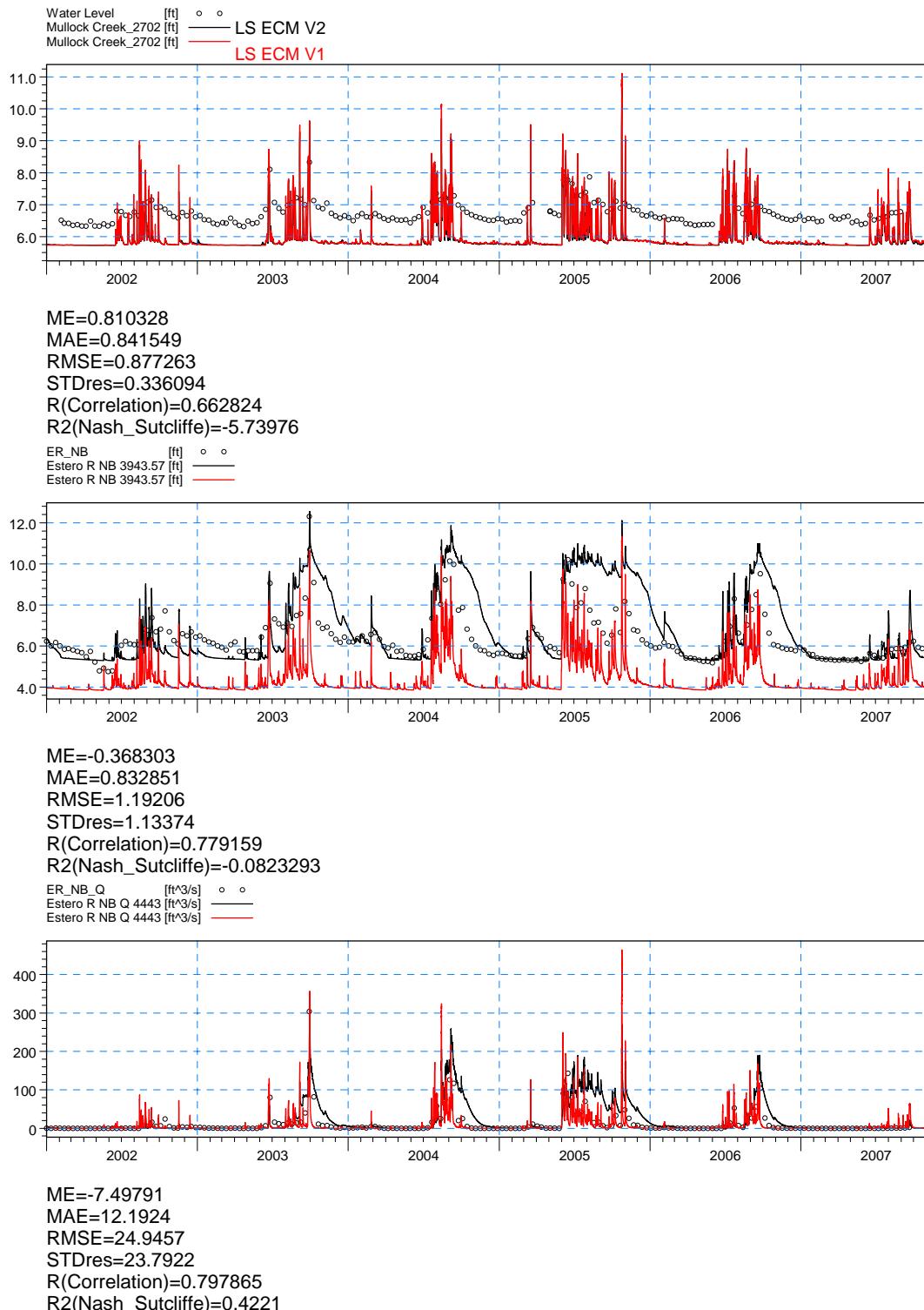


Figure F45. Comparison plots at surface water stations Mullock Creek, EsteroRiv and EsteroRiv Q.

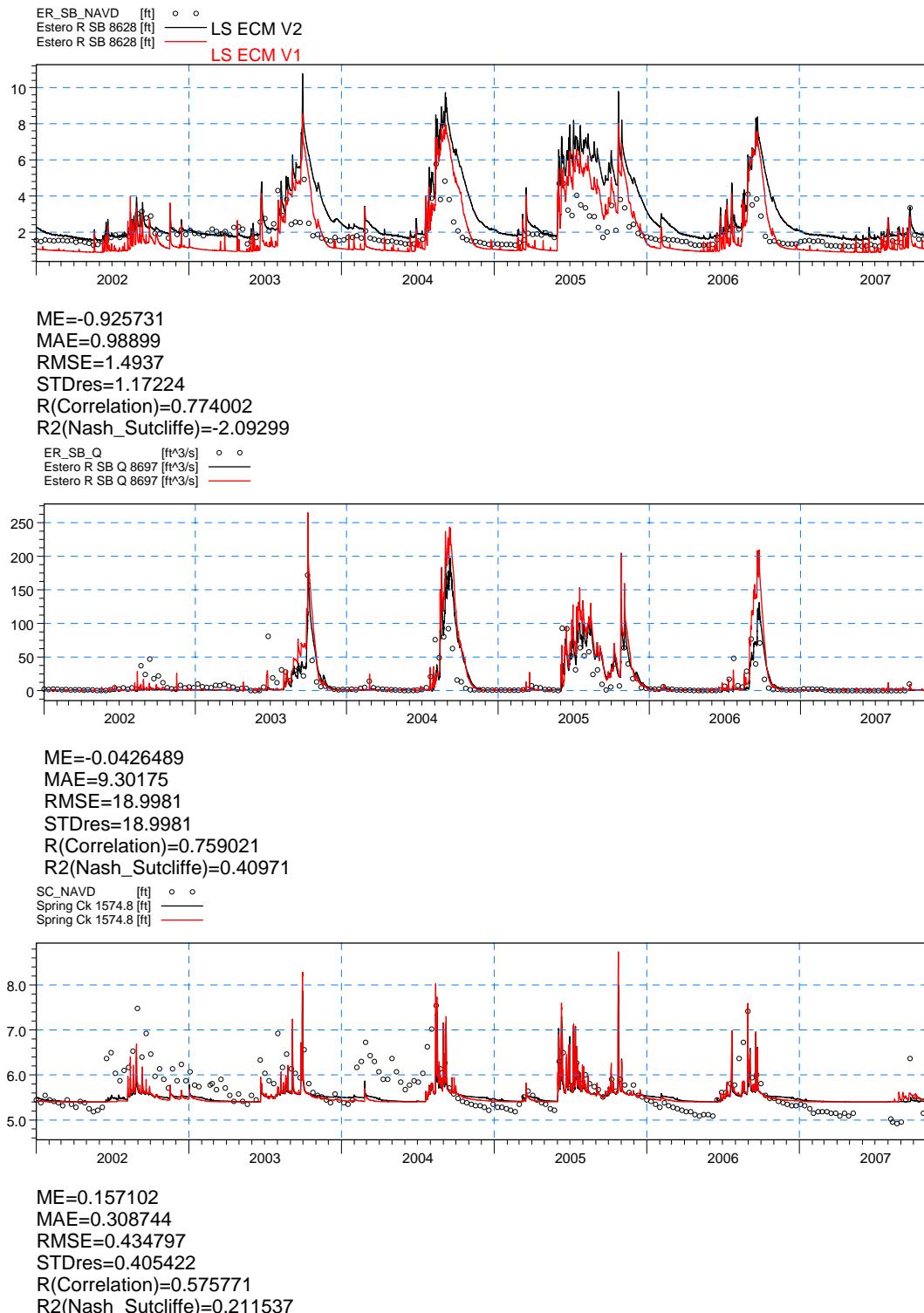


Figure F46. Comparison plots at surface water stations EsteroRivS, EsteroRivS Q and SpringCRSS.

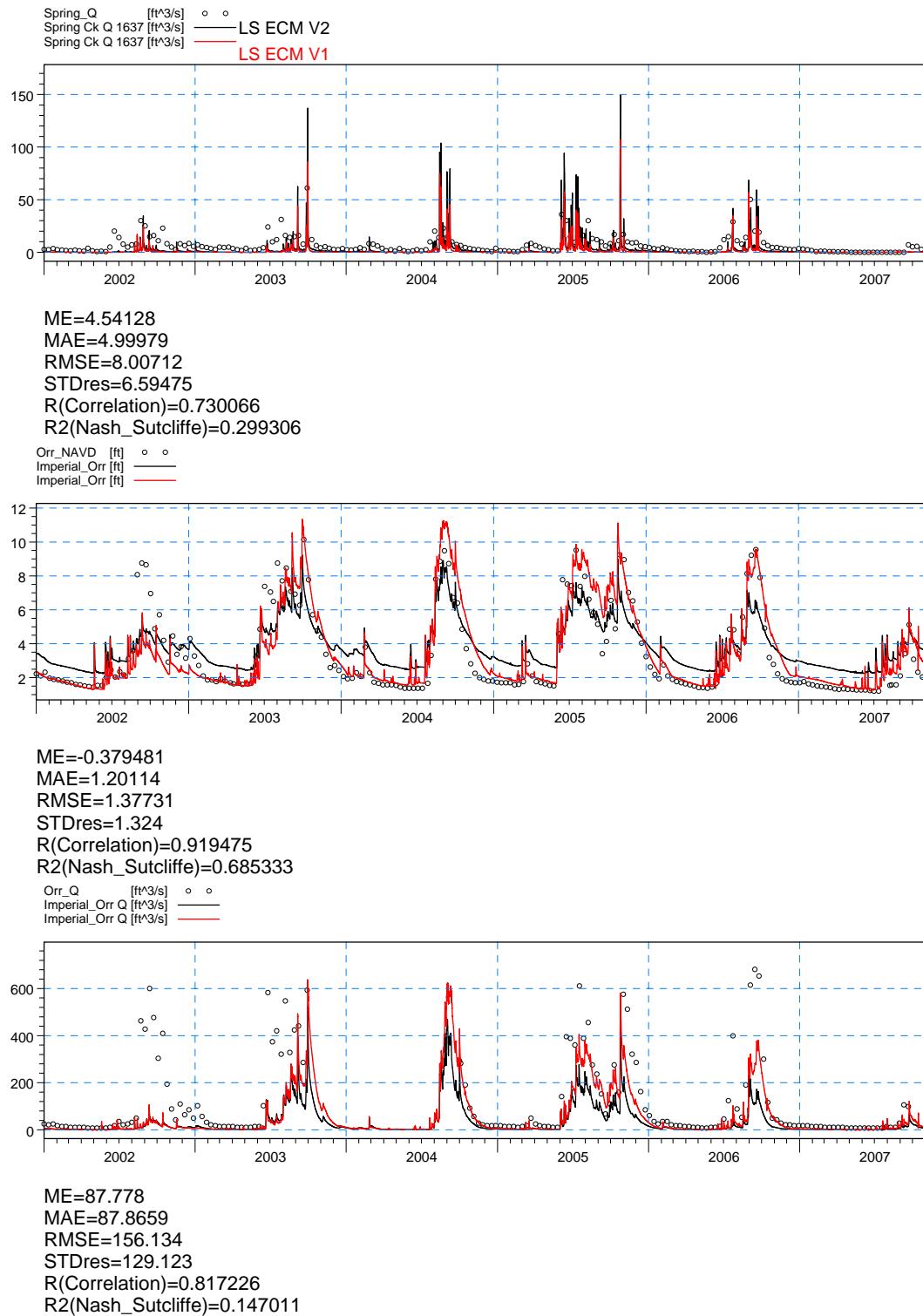


Figure F47. Comparison plots at surface water stations SpringCRSS Q, Imperial and Imperial Q.

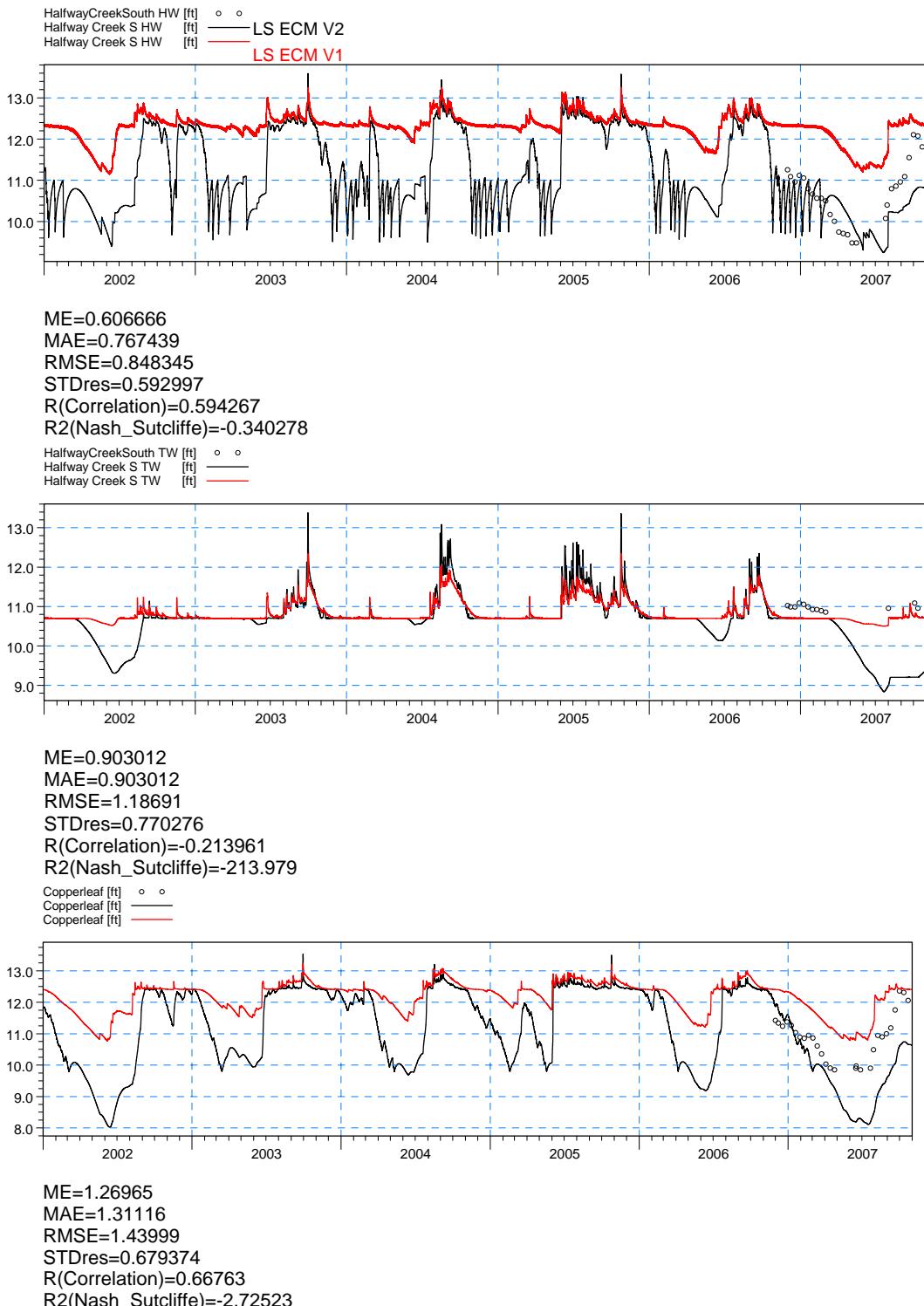
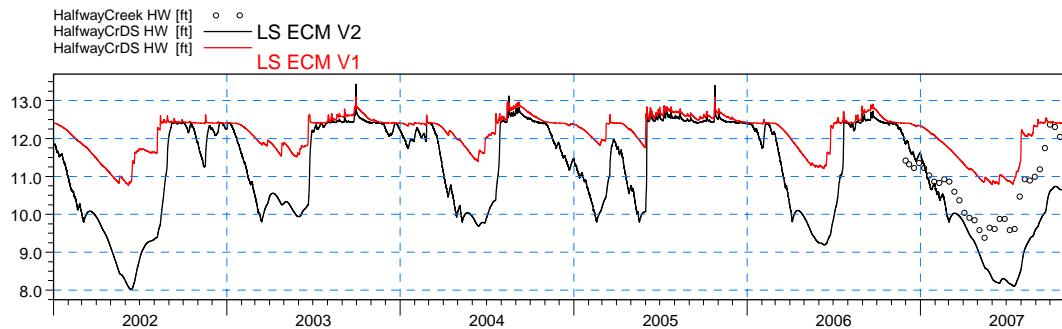
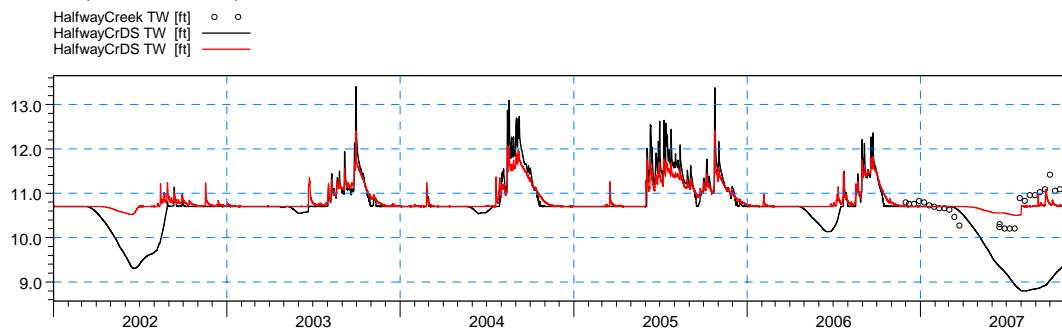


Figure F48. Comparison plots at surface water stations Halfway_S HW, Halfway_S TW and Copperleaf.



ME=1.26894
 MAE=1.30463
 RMSE=1.41574
 STDres=0.627795
 R(Correlation)=0.798173
 R2(Nash_Sutcliffe)=-1.38573



ME=1.50847
 MAE=1.52967
 RMSE=1.72303
 STDres=0.832681
 R(Correlation)=-0.226145
 R2(Nash_Sutcliffe)=-22.1851

Figure F49. Comparison plots at surface water stations HalfwayCrDS HW, and HalfwayCrDS TW.