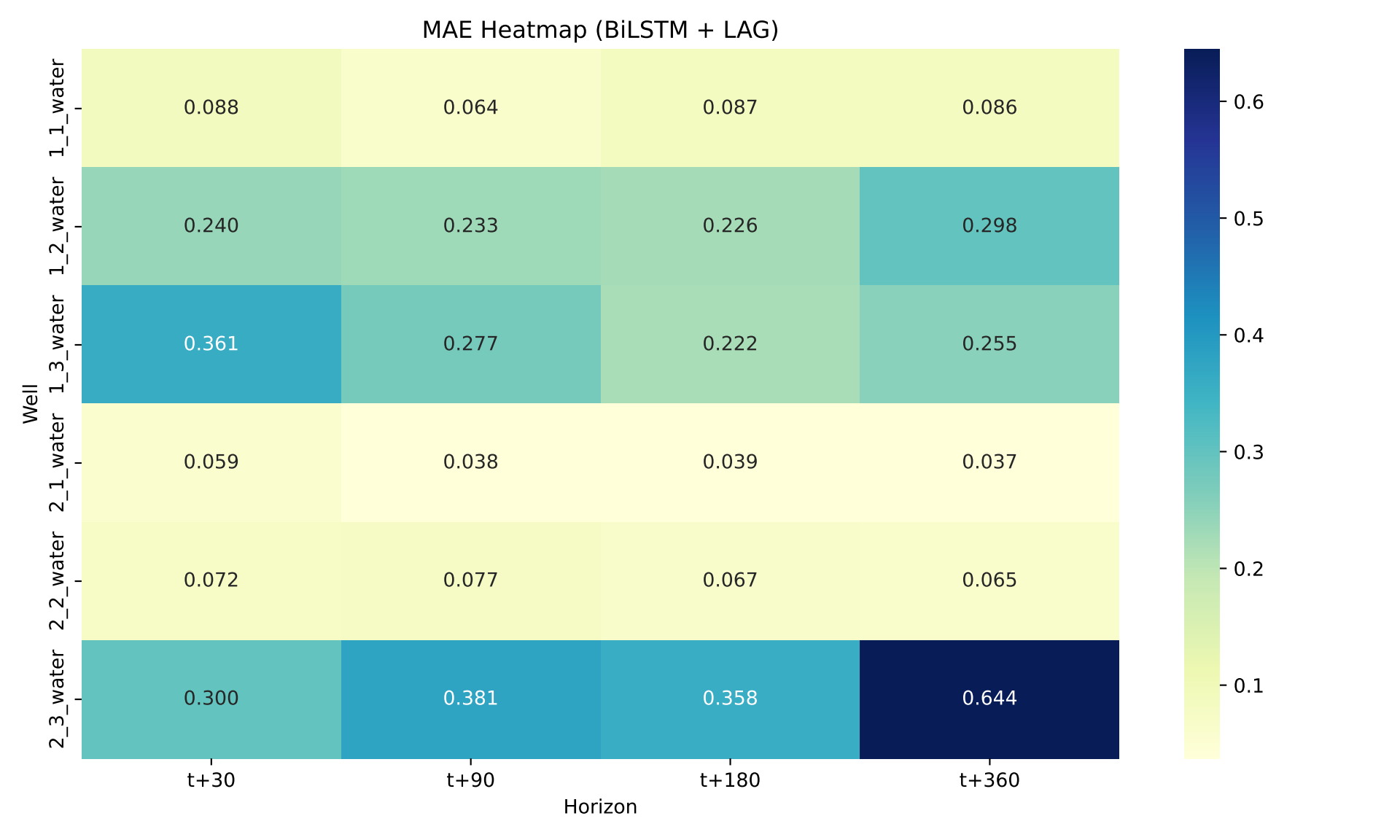
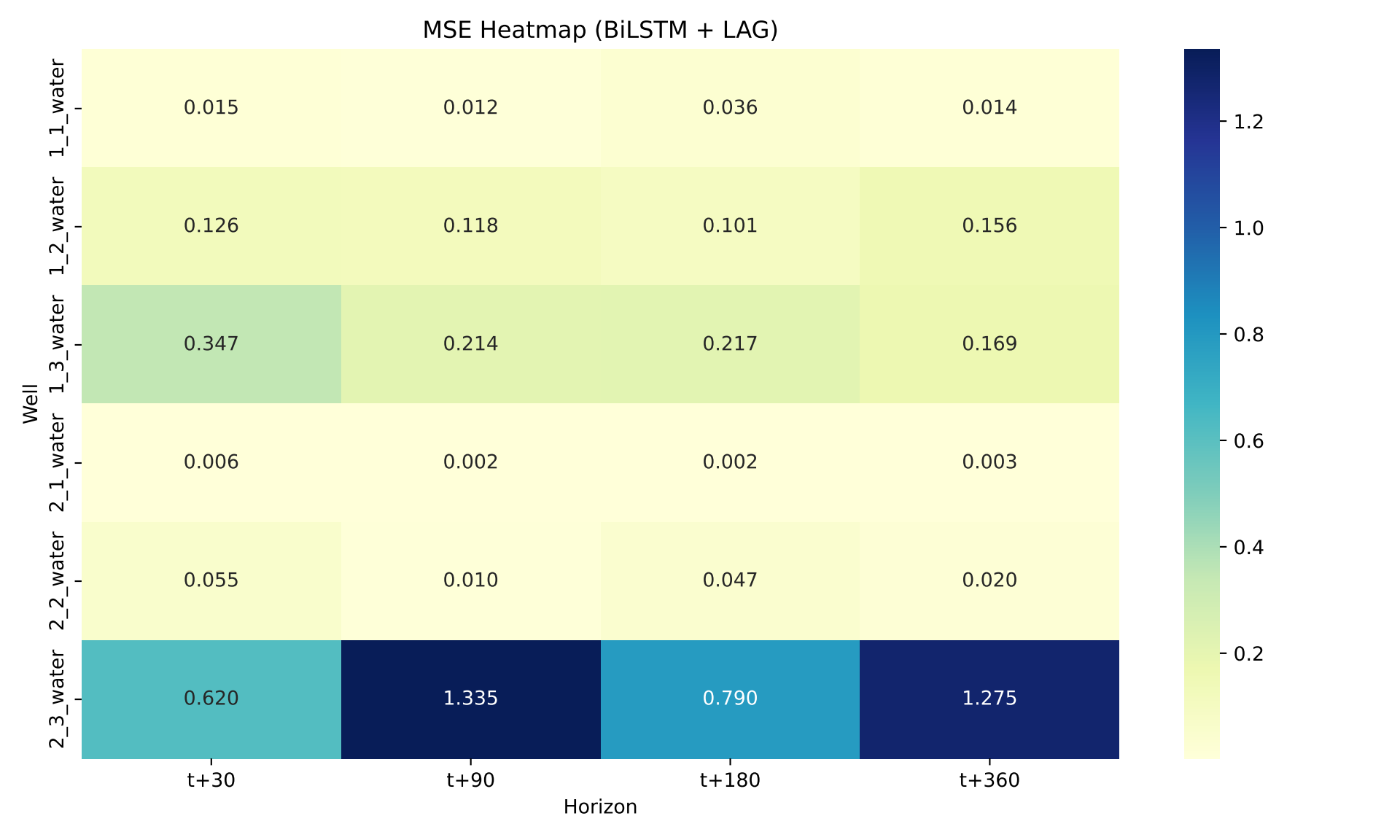
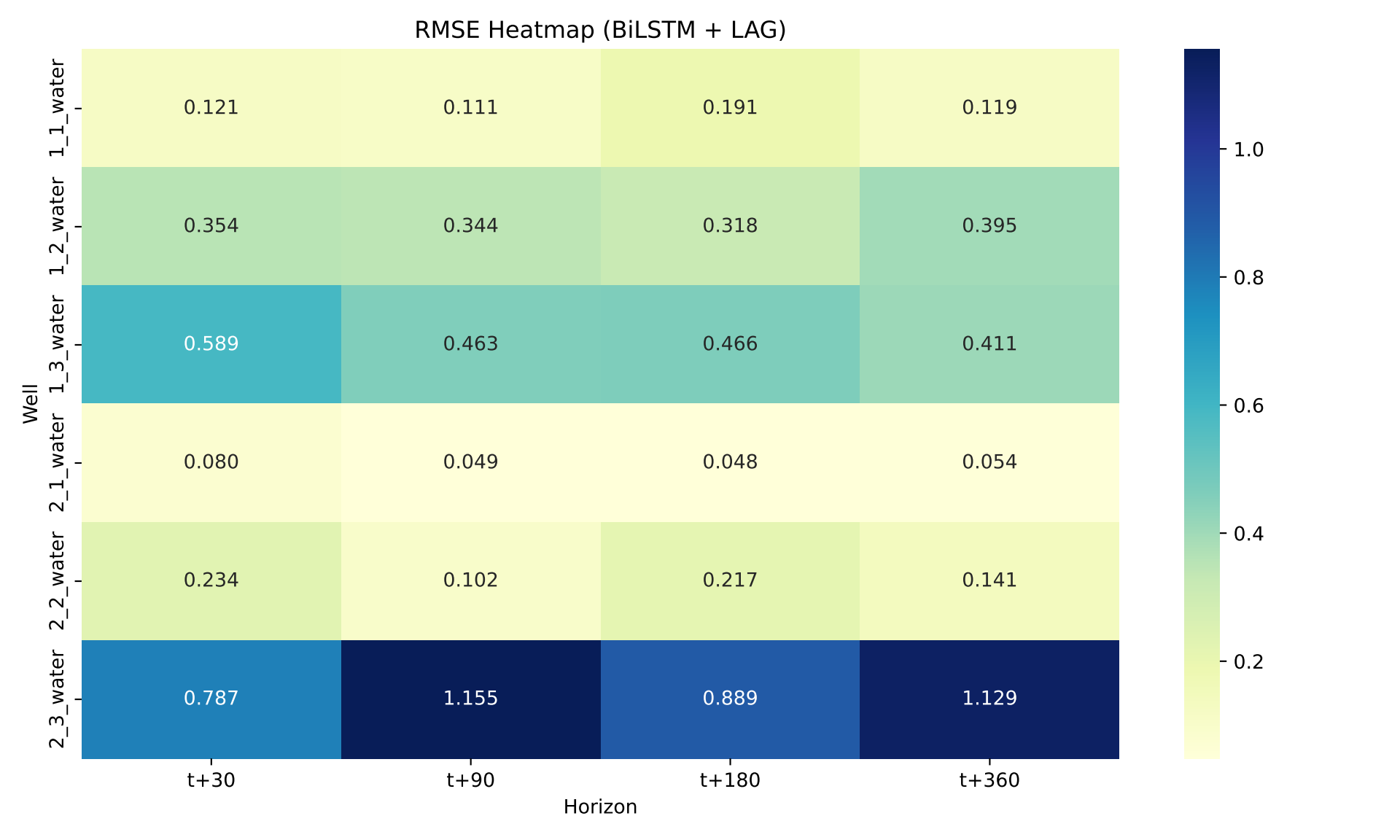
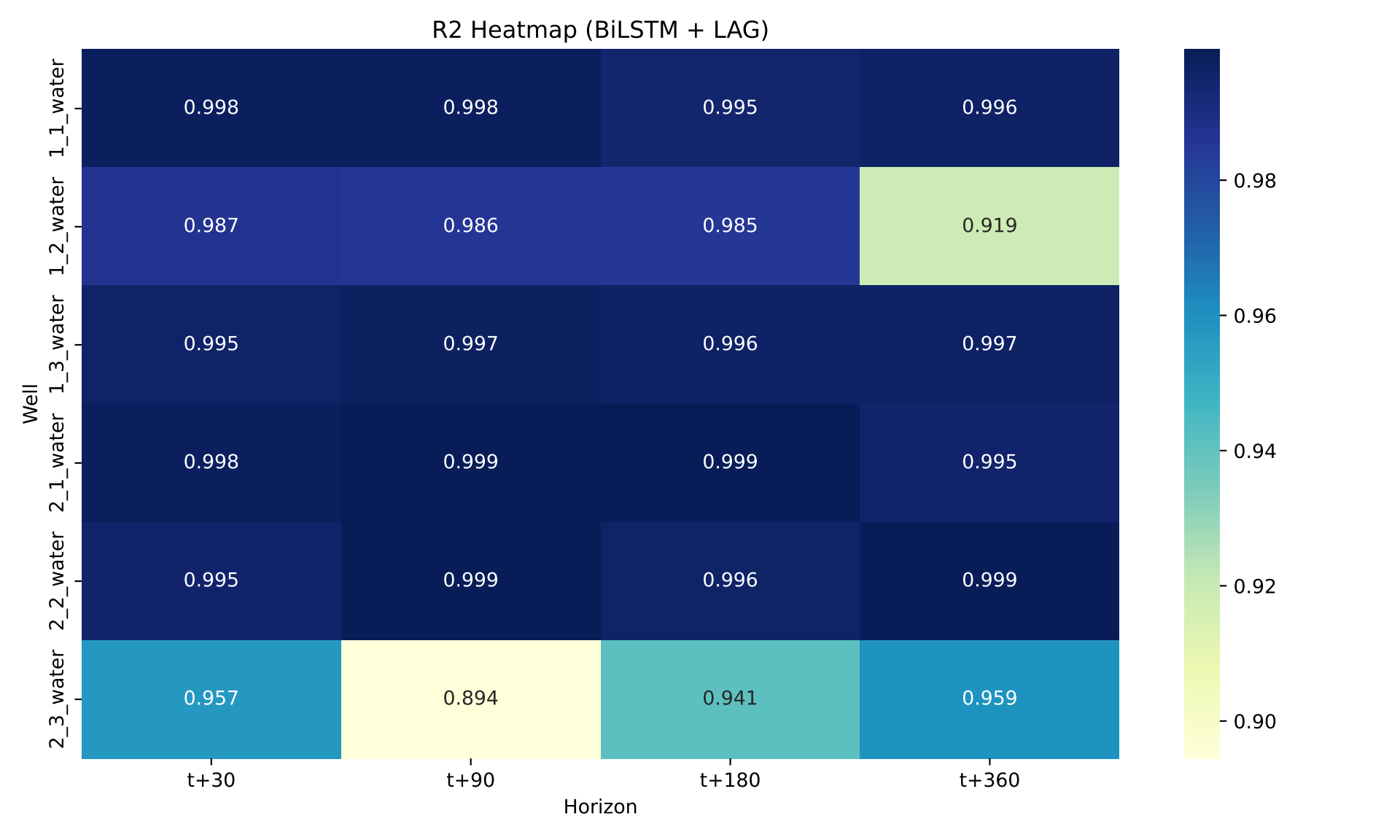
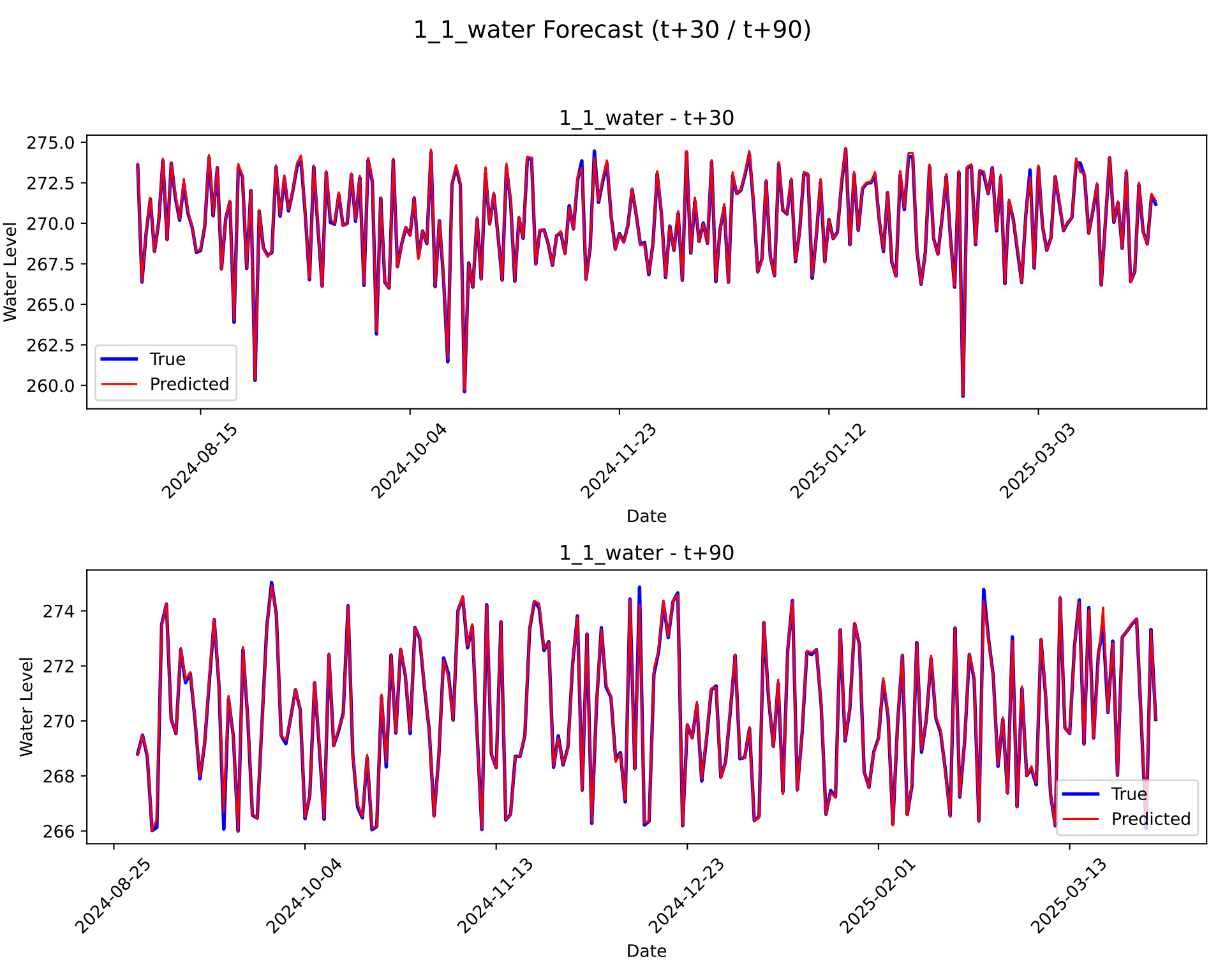
Well	Horizon	MAE	MSE	RMSE	R2
1_1_water	t+30	0.08760000020265579	0.014700000174343586	0.12129999697208405	0.9981
1_1_water	t+90	0.06430000066757202	0.012400000356137753	0.11140000075101852	0.9981
1_1_water	t+180	0.08649999648332596	0.036400001496076584	0.1907999962568283	0.9946
1_1_water	t+360	0.08579999953508377	0.0142000000923872	0.1193000003695488	0.9961
1_2_water	t+30	0.2402999997138977	0.12559999525547028	0.35440000891685486	0.987
1_2_water	t+90	0.23330000042915344	0.11829999834299088	0.3440000116825104	0.9857
1_2_water	t+180	0.2257000058889389	0.10119999945163727	0.3181000053882599	0.9853
1_2_water	t+360	0.29840001463890076	0.15620000660419464	0.3952000141143799	0.9187
1_3_water	t+30	0.36070001125335693	0.3467999994754791	0.5889000296592712	0.9953
1_3_water	t+90	0.2766999900341034	0.21449999511241913	0.46309998631477356	0.997
1_3_water	t+180	0.22169999778270721	0.21729999780654907	0.46619999408721924	0.9965
1_3_water	t+360	0.25459998846054077	0.16869999468326569	0.4106999933719635	0.9968
2_1_water	t+30	0.059300001710653305	0.006300000008195639	0.0794999971985817	0.9981
2_1_water	t+90	0.037700001150369644	0.002400000113993883	0.048700001090765	0.9993
2_1_water	t+180	0.03880000114440918	0.002300000051036477	0.04820000007748604	0.9992
2_1_water	t+360	0.037300001829862595	0.003000000026077032	0.0544000007212162	0.9948
2_2_water	t+30	0.07169999927282333	0.05469999834895134	0.23399999737739563	0.9949
2_2_water	t+90	0.07699999958276749	0.010400000028312206	0.10209999978542328	0.999
2_2_water	t+180	0.06689999997615814	0.04699999839067459	0.21690000593662262	0.9959
2_2_water	t+360	0.06539999693632126	0.019899999722838402	0.14100000262260437	0.999
2_3_water	t+30	0.30000001192092896	0.6197999715805054	0.7871999740600586	0.9575
2_3_water	t+90	0.3808000087738037	1.3345999717712402	1.1553000211715698	0.8945
2_3_water	t+180	0.3580000102519989	0.7901999950408936	0.8888999819755554	0.9411
2_3_water	t+360	0.6444000005722046	1.2747000455856323	1.128999948501587	0.9595

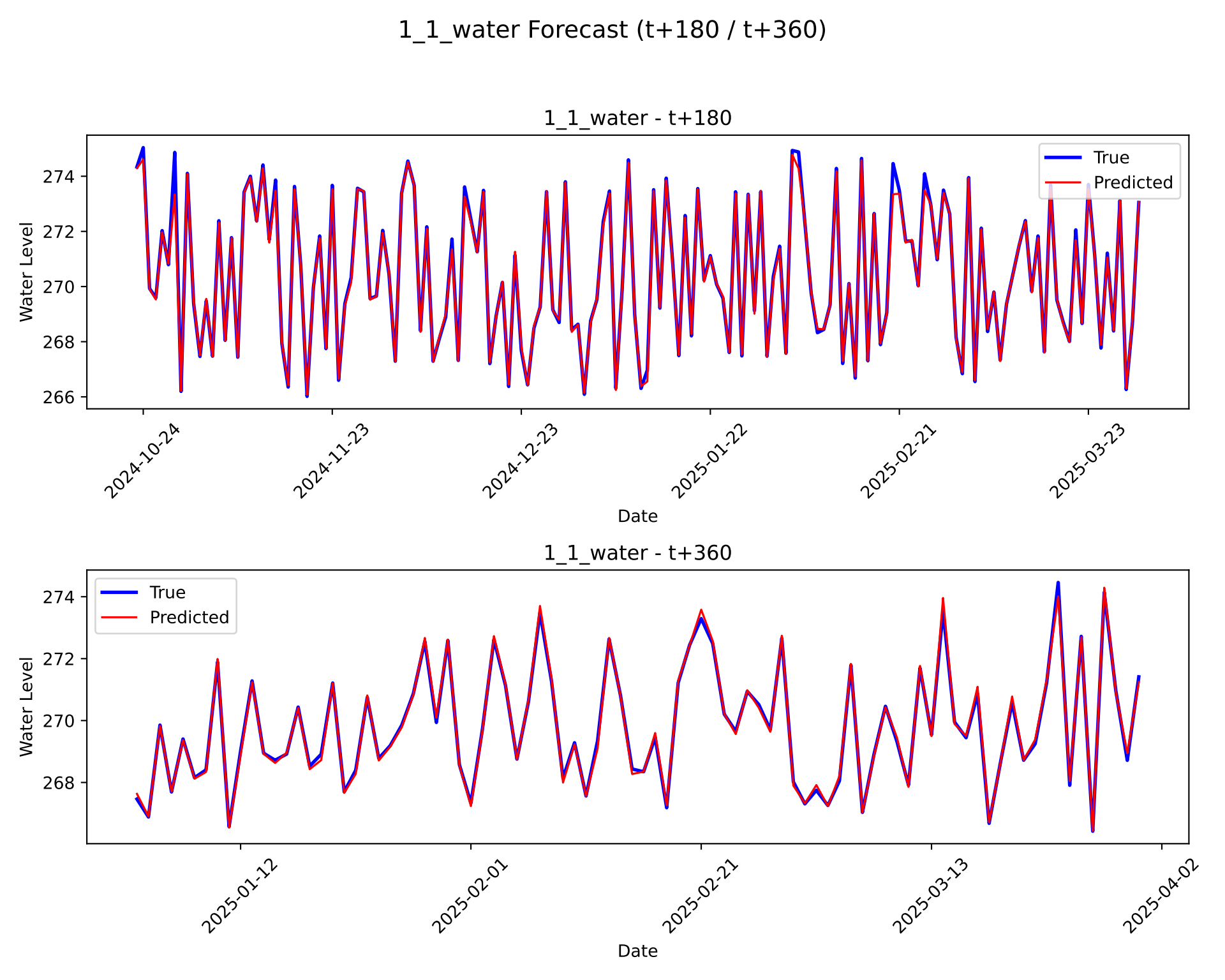

MAE Heatmap (BiLSTM + LAG)
Well
1_1_water
1_2_water
1_3_water
2_1_water
2_2_water
2_3_water
0.088
0.064
0.087
0.086
0.240
0.233
0.226
0.298
0.361
0.277
0.222
0.255
0.059
0.038
0.039
0.037
0.072
0.077
0.067
0.065
0.300
0.381
0.358
0.644
t+30
t+90
t+180
t+360
Horizon
0.6
0.5
0.4
0.3
0.2
0.1

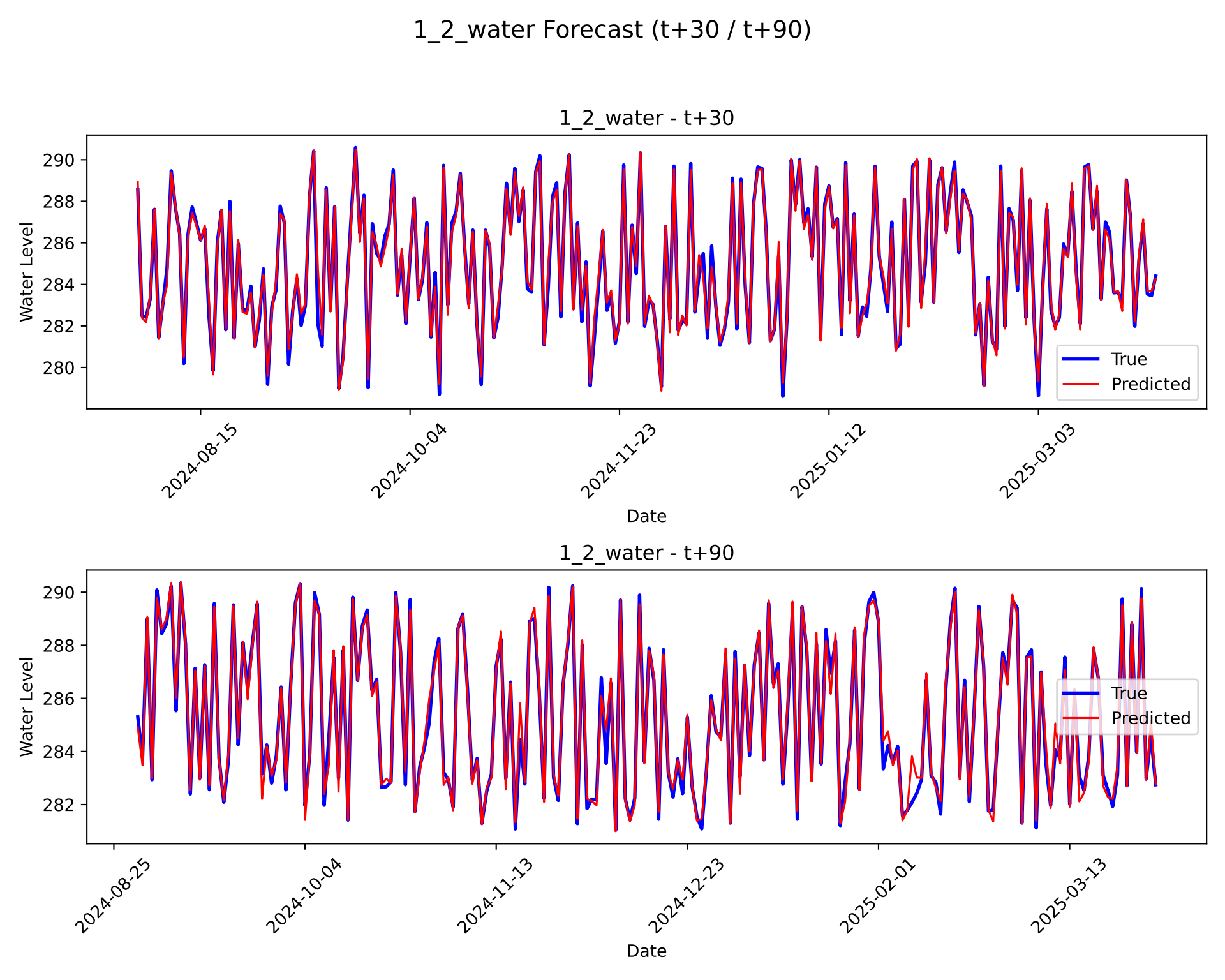

MSE Heatmap (BiLSTM + LAG)
Well
1_1_water
1_2_water
1_3_water
2_1_water
2_2_water
2_3_water
0.015
0.012
0.036
0.014
0.126
0.118
0.101
0.156
0.347
0.214
0.217
0.169
0.006
0.002
0.002
0.003
0.055
0.010
0.047
0.020
0.620
1.335
0.790
1.275
t+30
t+90
t+180
t+360
Horizon
1.2
1.0
0.8
0.6
0.4
0.2

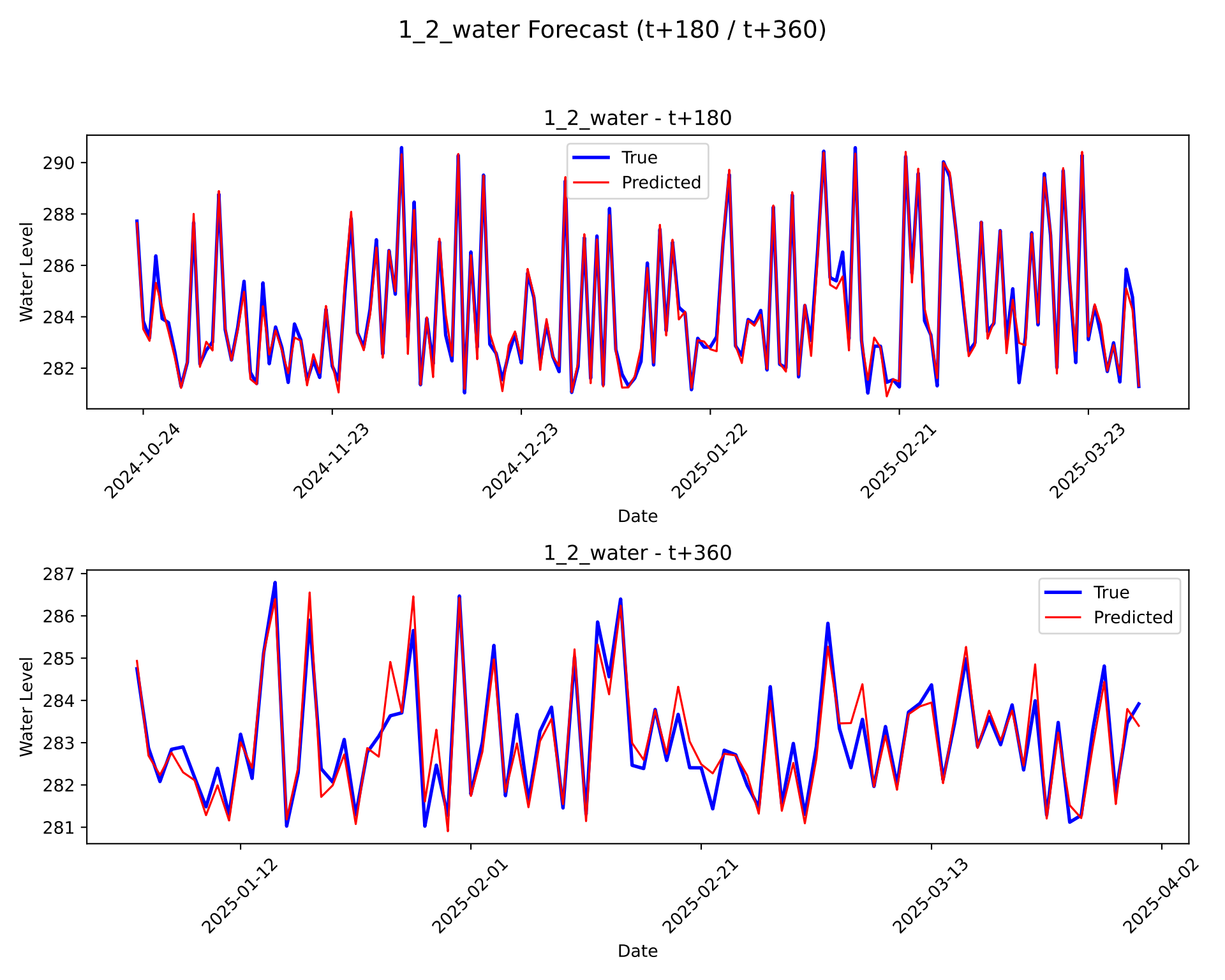

RMSE Heatmap (BiLSTM + LAG)
Well
1_1_water
1_2_water
1_3_water
2_1_water
2_2_water
2_3_water
0.121
0.111
0.191
0.119
0.354
0.344
0.318
0.395
0.589
0.463
0.466
0.411
0.080
0.049
0.048
0.054
0.234
0.102
0.217
0.141
0.787
1.155
0.889
1.129
t+30
t+90
t+180
t+360
Horizon
1.0
0.8
0.6
0.4
0.2

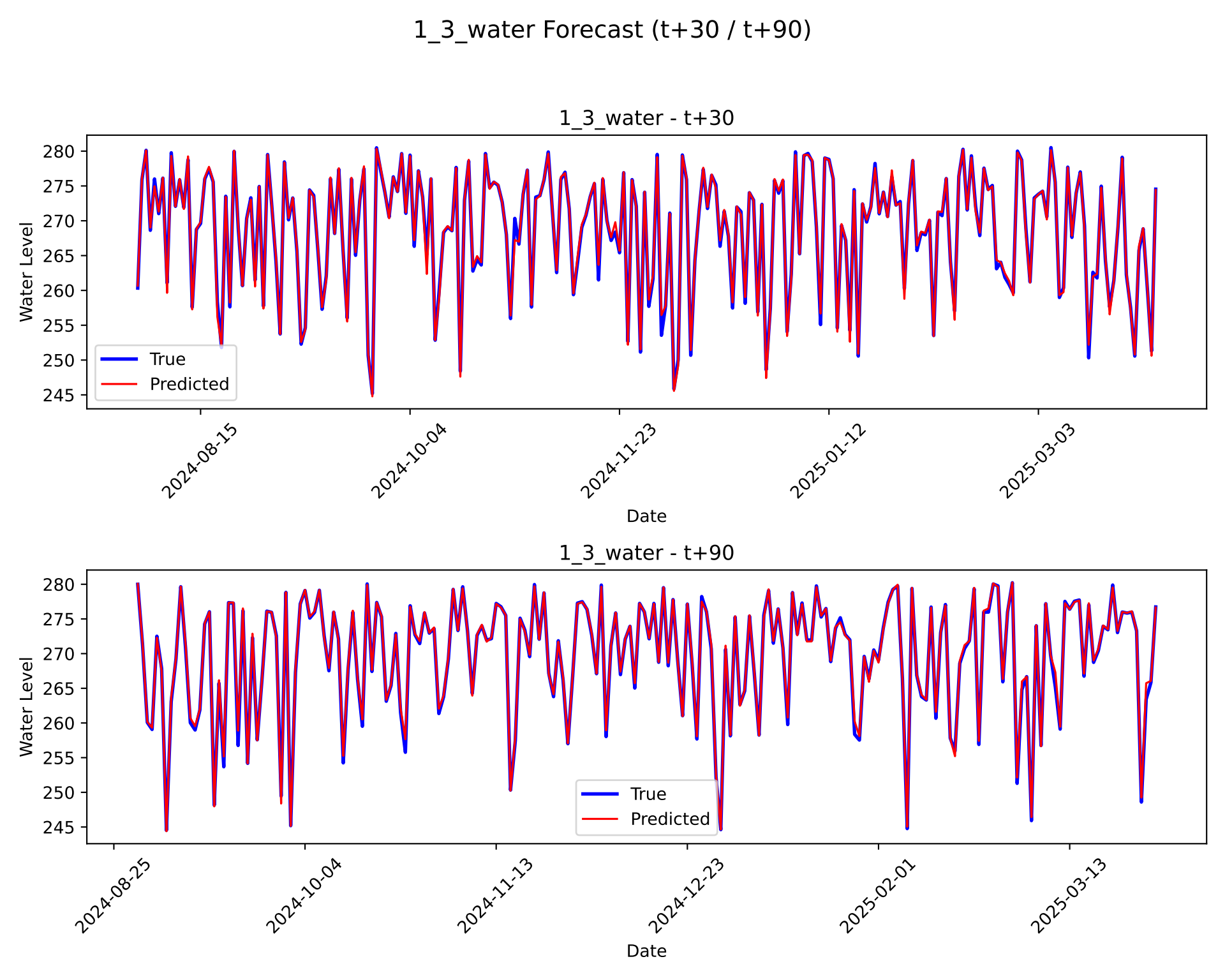

R2 Heatmap (BiLSTM + LAG)
Well
1_1_water
1_2_water
1_3_water
2_1_water
2_2_water
2_3_water
0.998
0.998
0.995
0.996
0.987
0.986
0.985
0.919
0.995
0.997
0.996
0.997
0.998
0.999
0.999
0.995
0.995
0.999
0.996
0.999
0.957
0.894
0.941
0.959
t+30
t+90
t+180
t+360
Horizon
0.98
0.96
0.94
0.92
0.90

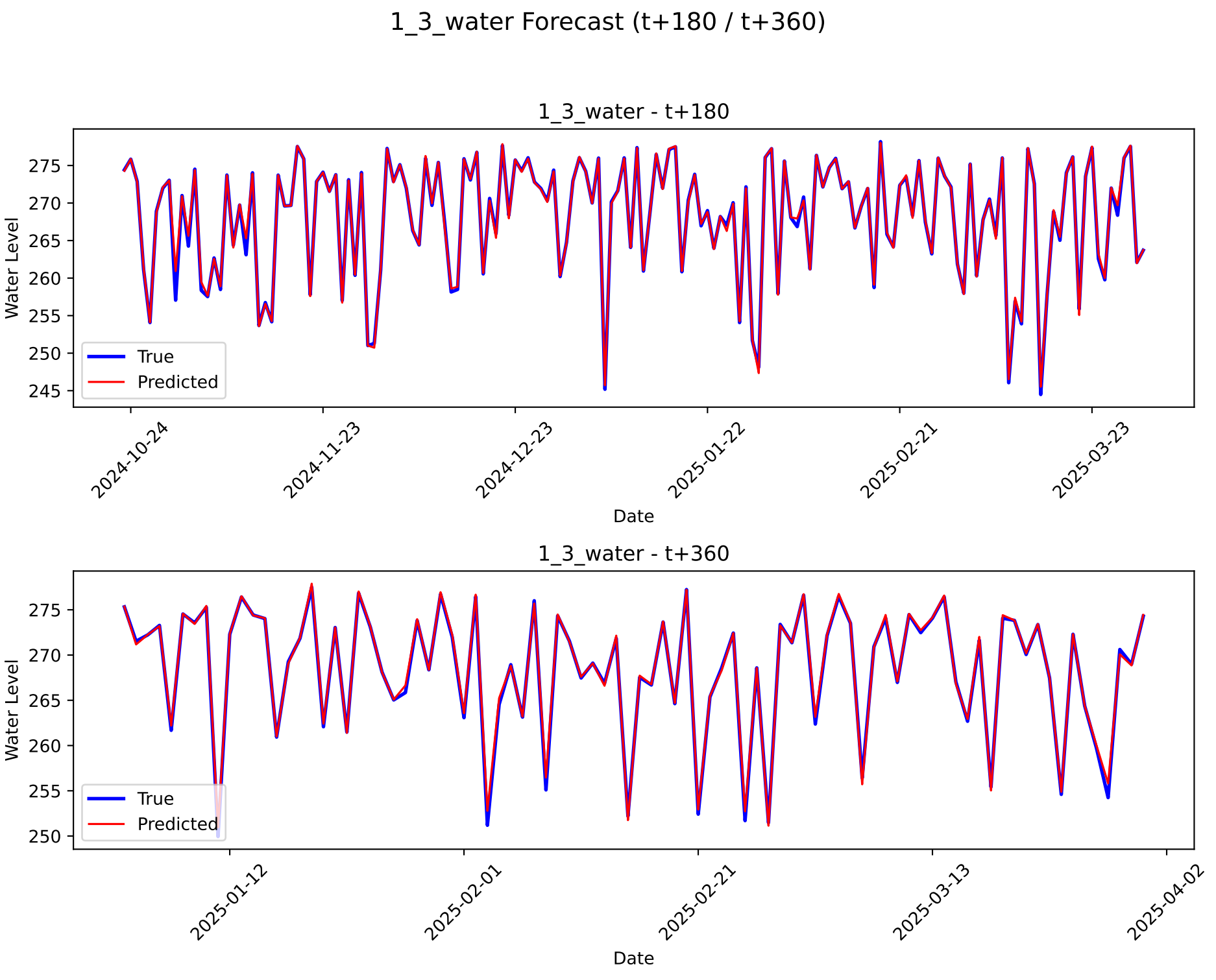

1_1_water Forecast (t+30 / t+90)
1_1_water - t+30
Water Level
275.0
272.5
270.0
267.5
265.0
262.5
260.0
True
Predicted
2024-08-15
2024-10-04
2024-11-23
2025-01-12
2025-03-03
Date
1_1_water - t+90
Water Level
274
272
270
268
266
True
Predicted
2024-08-25
2024-10-04
2024-11-13
2024-12-23
2025-02-01
2025-03-13
Date

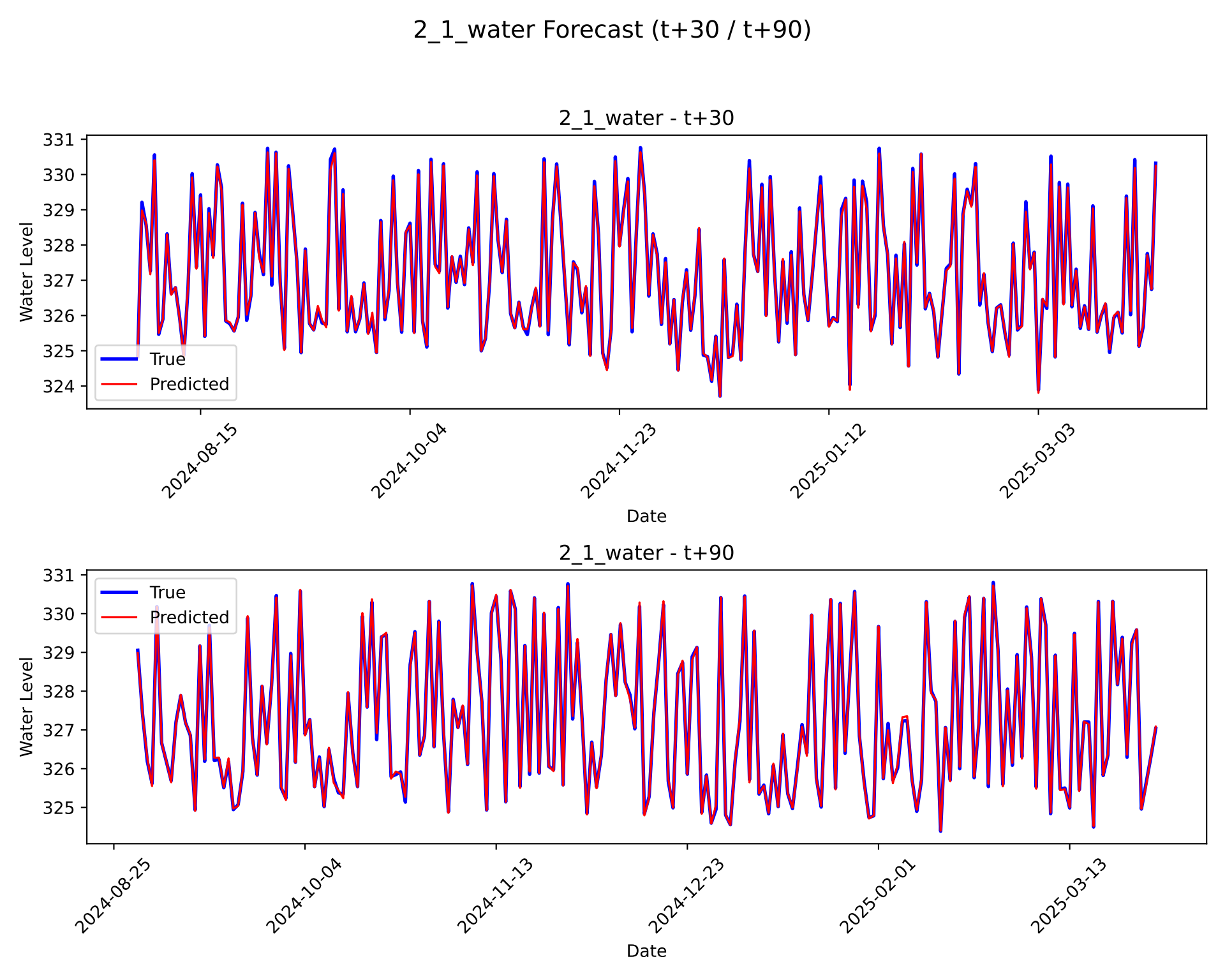

1_1_water Forecast (t+180 / t+360)
1_1_water - t+180
True
Predicted
Water Level
274
272
270
268
266
2024-10-24
2024-11-23
2024-12-23
2025-01-22
2025-02-21
2025-03-23
Date
1_1_water - t+360
True
Predicted
Water Level
274
272
270
268
2025-01-12
2025-02-01
2025-02-21
2025-03-13
2025-04-02
Date

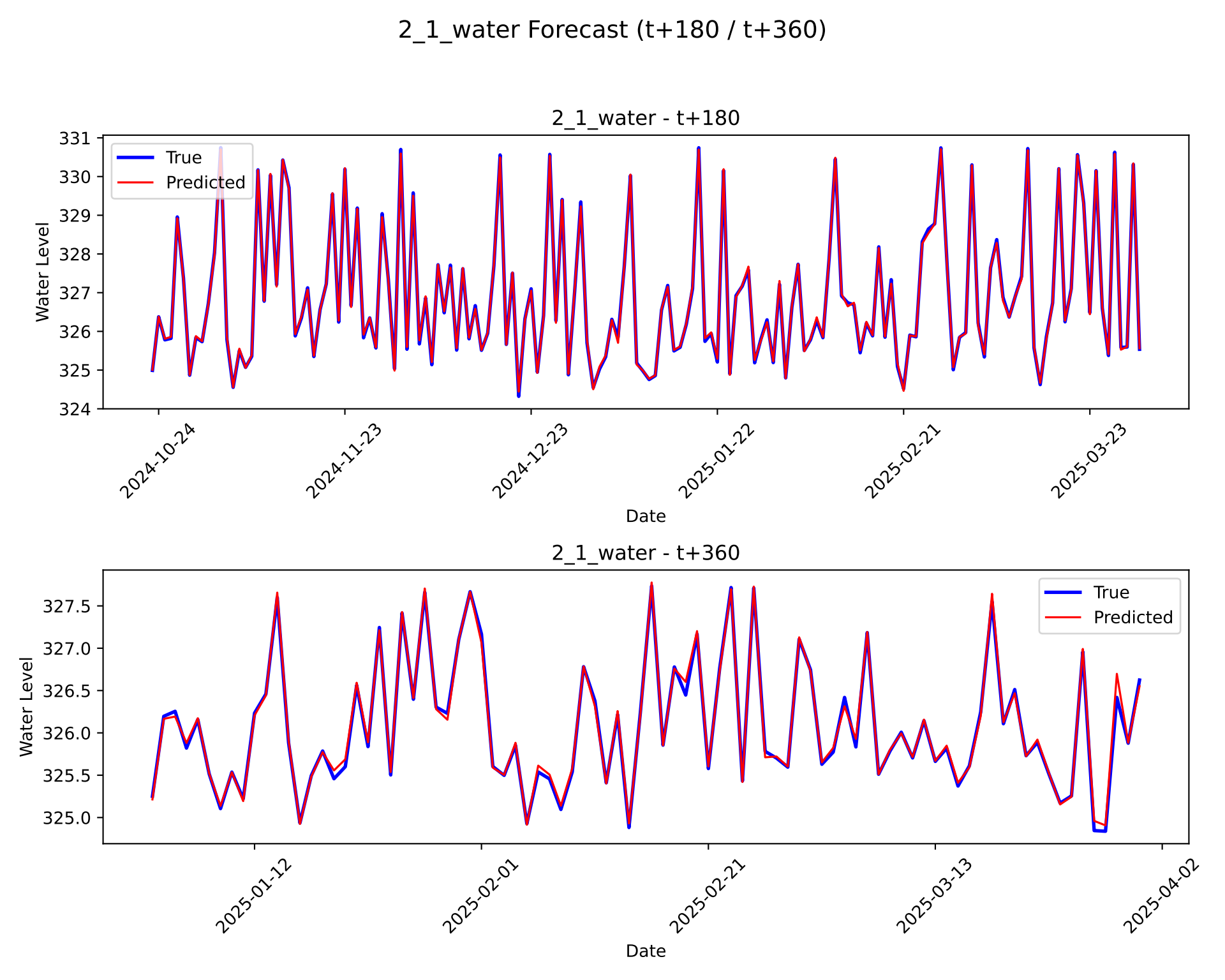

1_2_water Forecast (t+30 / t+90)
1_2_water - t+30
Water Level
290
288
286
284
282
280
True
Predicted
2024-08-15
2024-10-04
2024-11-23
2025-01-12
2025-03-03
Date
1_2_water - t+90
Water Level
290
288
286
284
282
True
Predicted
2024-08-25
2024-10-04
2024-11-13
2024-12-23
2025-02-01
2025-03-13
Date

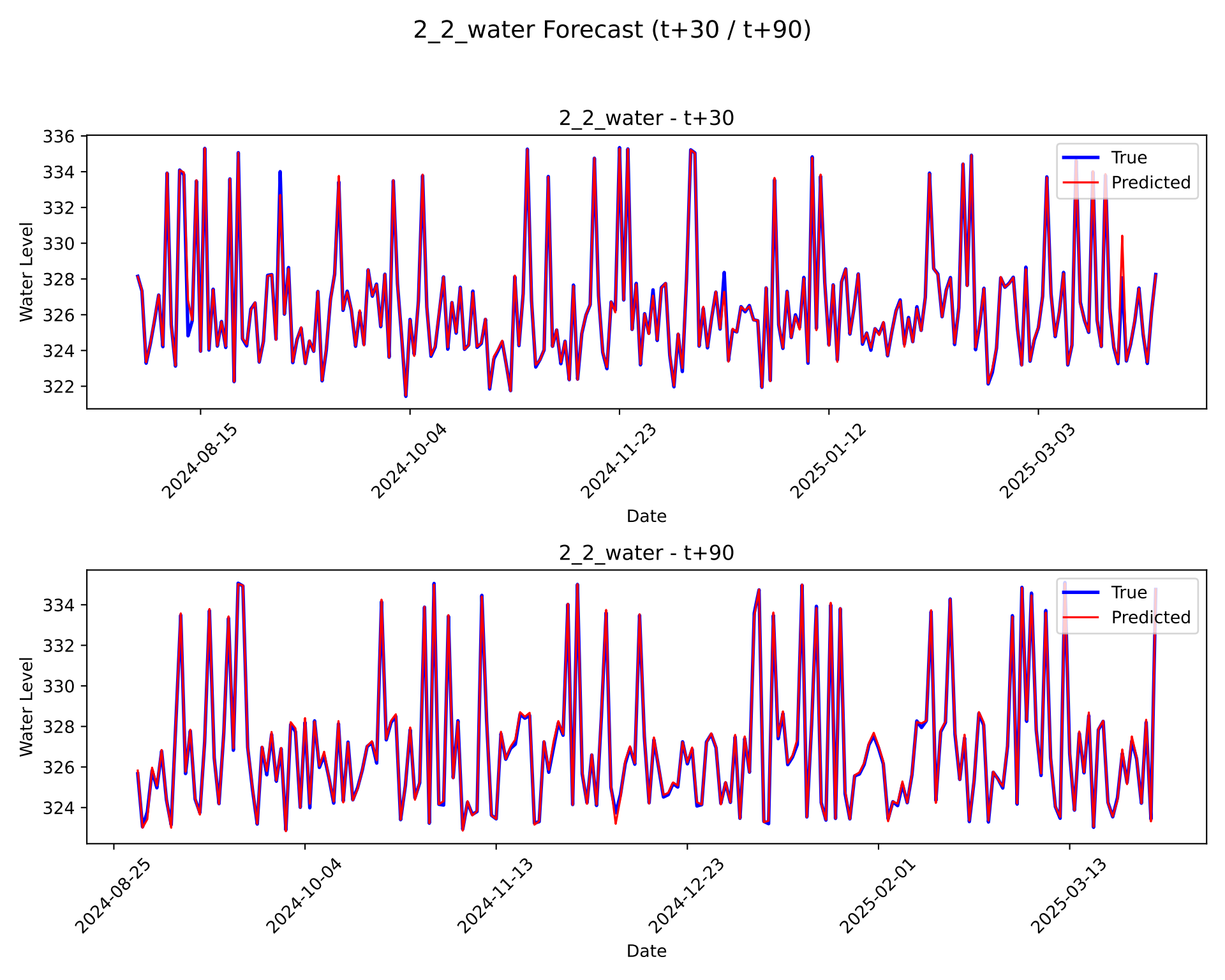

1_2_water Forecast (t+180 / t+360)
1_2_water - t+180
True
Predicted
Water Level
290
288
286
284
282
2024-10-24
2024-11-23
2024-12-23
2025-01-22
2025-02-21
2025-03-23
Date
1_2_water - t+360
True
Predicted
Water Level
287
286
285
284
283
282
281
2025-01-12
2025-02-01
2025-02-21
2025-03-13
2025-04-02
Date

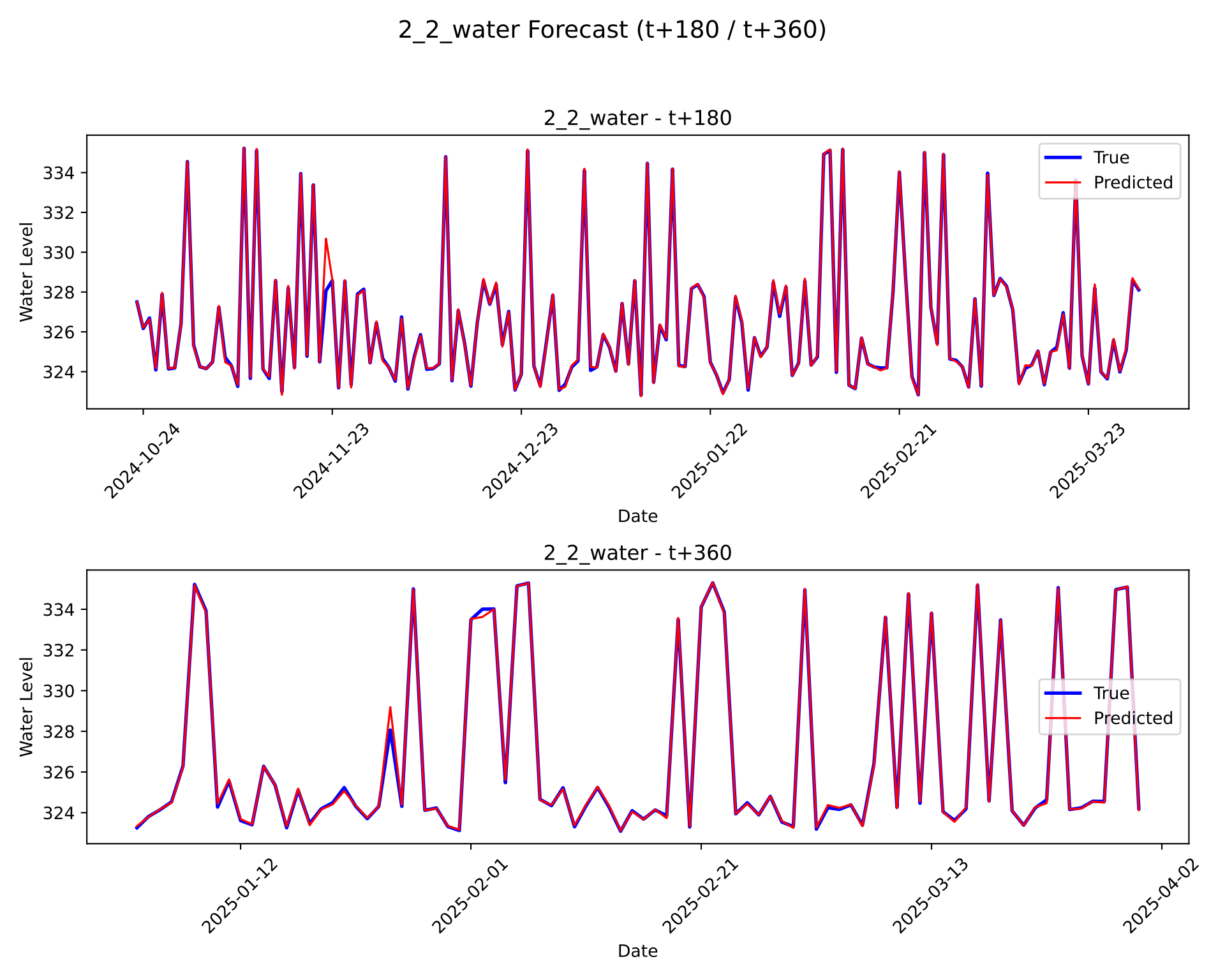

1_3_water Forecast (t+30 / t+90)
1_3_water - t+30
Water Level
Date
True
Predicted
2024-08-15
2024-10-04
2024-11-23
2025-01-12
2025-03-03
1_3_water - t+90
Water Level
Date
True
Predicted
2024-08-25
2024-10-04
2024-11-13
2024-12-23
2025-02-01
2025-03-13

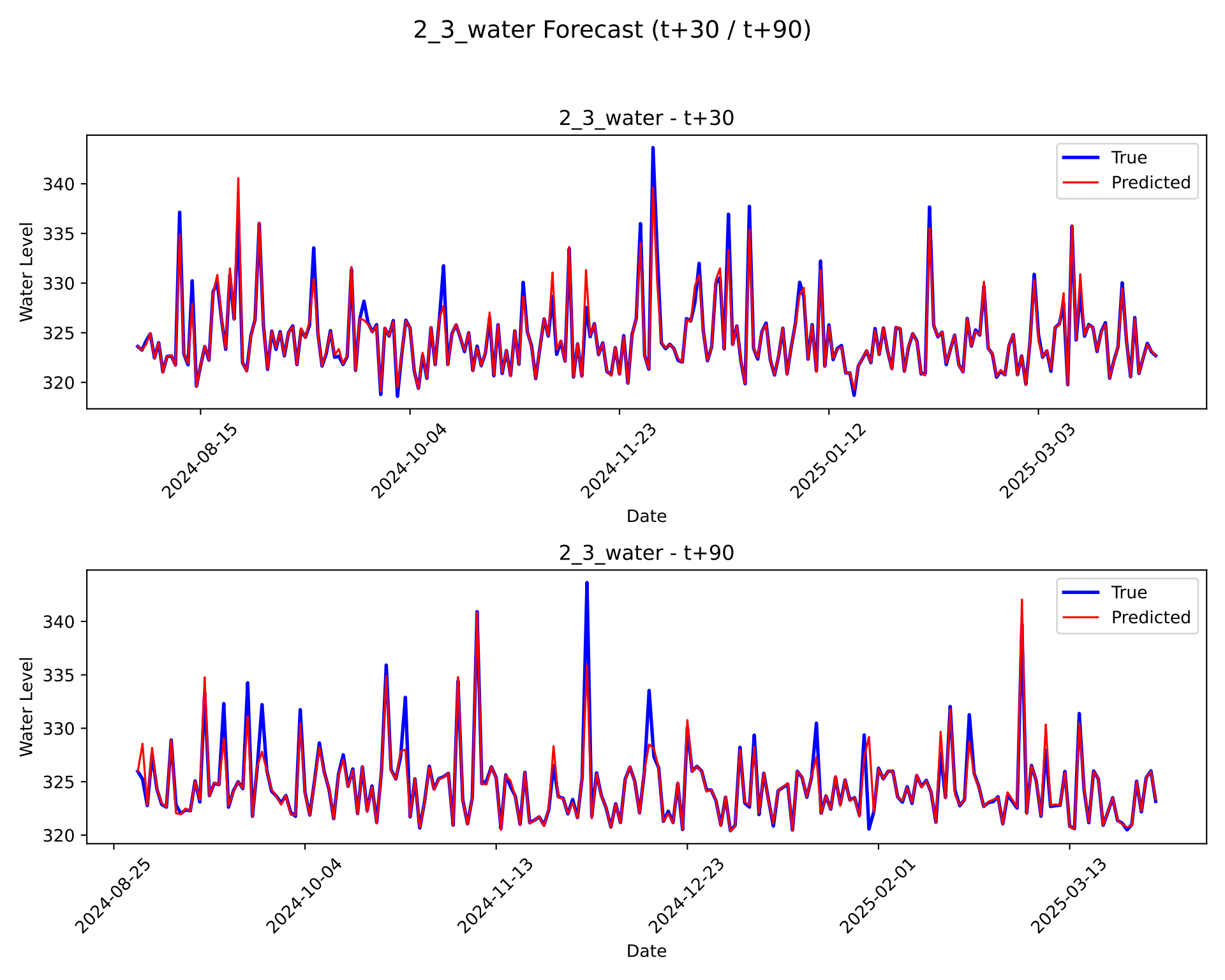

1_3_water Forecast (t+180 / t+360)
1_3_water - t+180
Water Level
275
270
265
260
255
250
245
True
Predicted
2024-10-24
2024-11-23
2024-12-23
2025-01-22
2025-02-21
2025-03-23
Date
1_3_water - t+360
Water Level
275
270
265
260
255
250
True
Predicted
2025-01-12
2025-02-01
2025-02-21
2025-03-13
2025-04-02
Date

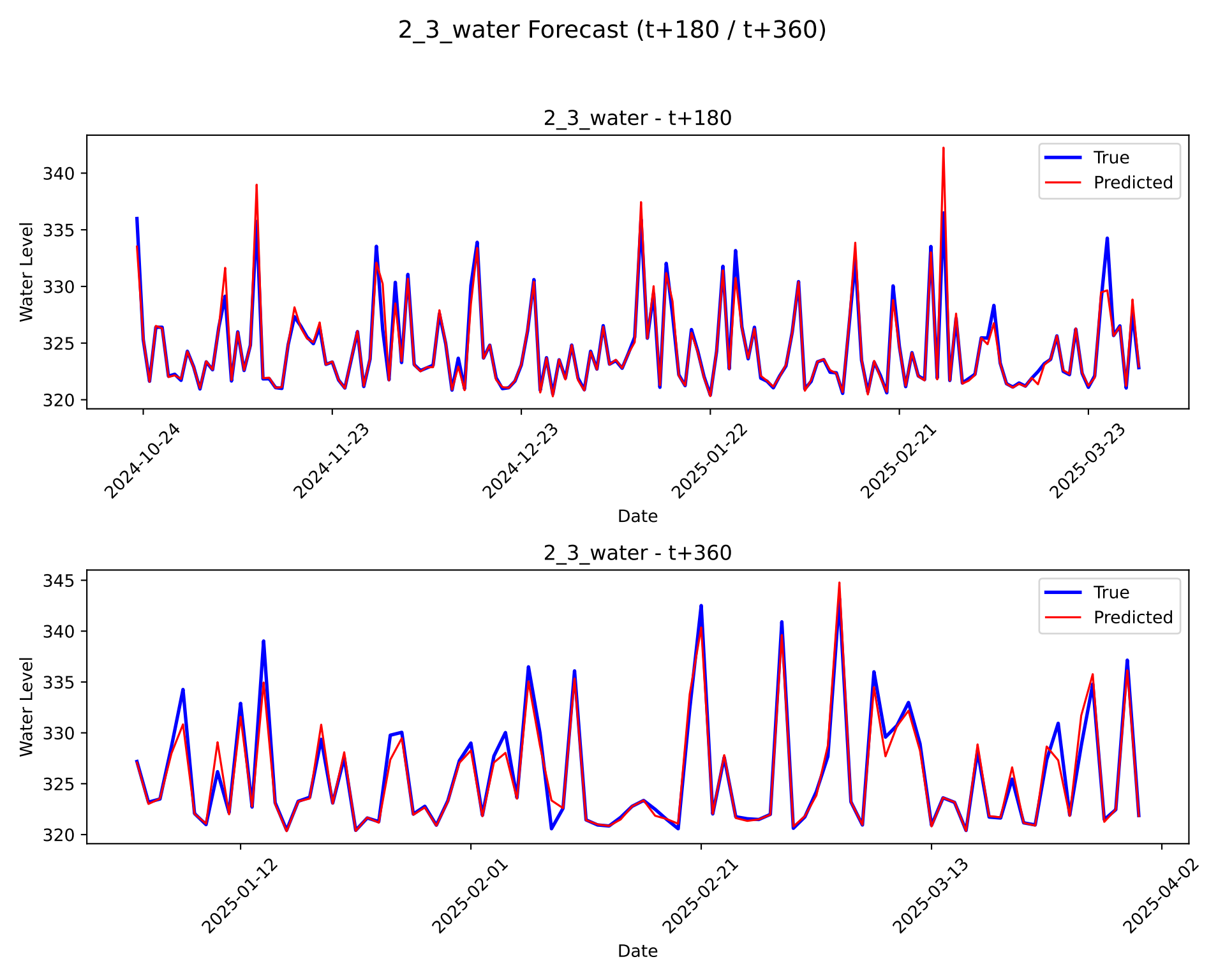

2_1_water Forecast (t+30 / t+90)
2_1_water - t+30
Water Level
Date
True
Predicted
2024-08-15
2024-10-04
2024-11-23
2025-01-12
2025-03-03
2_1_water - t+90
Water Level
Date
True
Predicted
2024-08-25
2024-10-04
2024-11-13
2024-12-23
2025-02-01
2025-03-13


2_1_water Forecast (t+180 / t+360)
2_1_water - t+180
True
Predicted
Water Level
Date
2024-10-24
2024-11-23
2024-12-23
2025-01-22
2025-02-21
2025-03-23
2_1_water - t+360
True
Predicted
Water Level
Date
2025-01-12
2025-02-01
2025-02-21
2025-03-13
2025-04-02


2_2_water Forecast (t+30 / t+90)
2_2_water - t+30
Water Level
Date
True
Predicted
336
334
332
330
328
326
324
322
2024-08-15
2024-10-04
2024-11-23
2025-01-12
2025-03-03
2_2_water - t+90
Water Level
Date
True
Predicted
334
332
330
328
326
324
2024-08-25
2024-10-04
2024-11-13
2024-12-23
2025-02-01
2025-03-13


2_2_water Forecast (t+180 / t+360)
2_2_water - t+180
Water Level
Date
True
Predicted
2024-10-24
2024-11-23
2024-12-23
2025-01-22
2025-02-21
2025-03-23
2_2_water - t+360
Water Level
Date
True
Predicted
2025-01-12
2025-02-01
2025-02-21
2025-03-13
2025-04-02


2_3_water Forecast (t+30 / t+90)
2_3_water - t+30
Water Level
Date
True
Predicted
320
325
330
335
340
2024-08-15
2024-10-04
2024-11-23
2025-01-12
2025-03-03
2_3_water - t+90
Water Level
Date
True
Predicted
320
325
330
335
340
2024-08-25
2024-10-04
2024-11-13
2024-12-23
2025-02-01
2025-03-13


2_3_water Forecast (t+180 / t+360)
2_3_water - t+180
Water Level
Date
True
Predicted
2024-10-24
2024-11-23
2024-12-23
2025-01-22
2025-02-21
2025-03-23
2_3_water - t+360
Water Level
Date
True
Predicted
2025-01-12
2025-02-01
2025-02-21
2025-03-13
2025-04-02