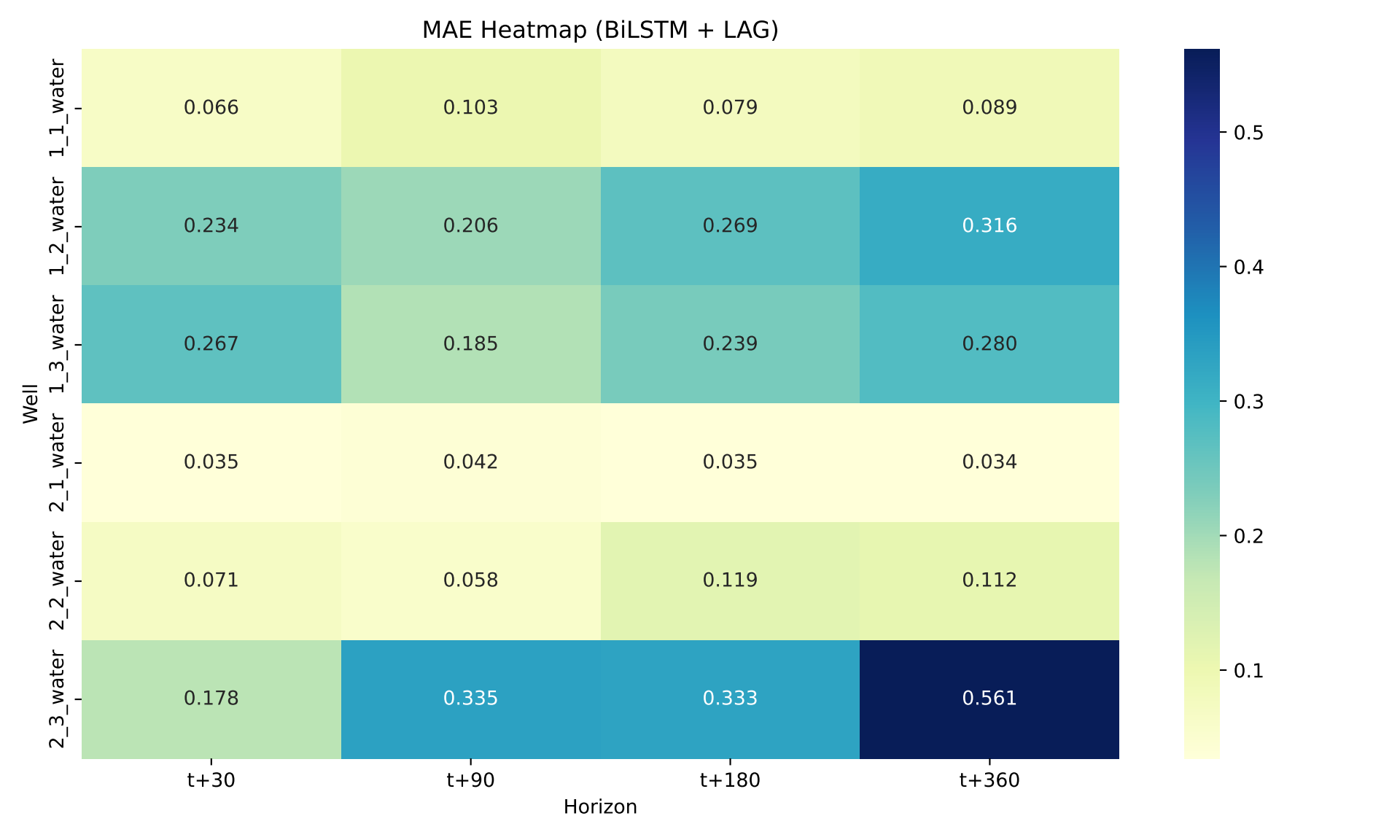
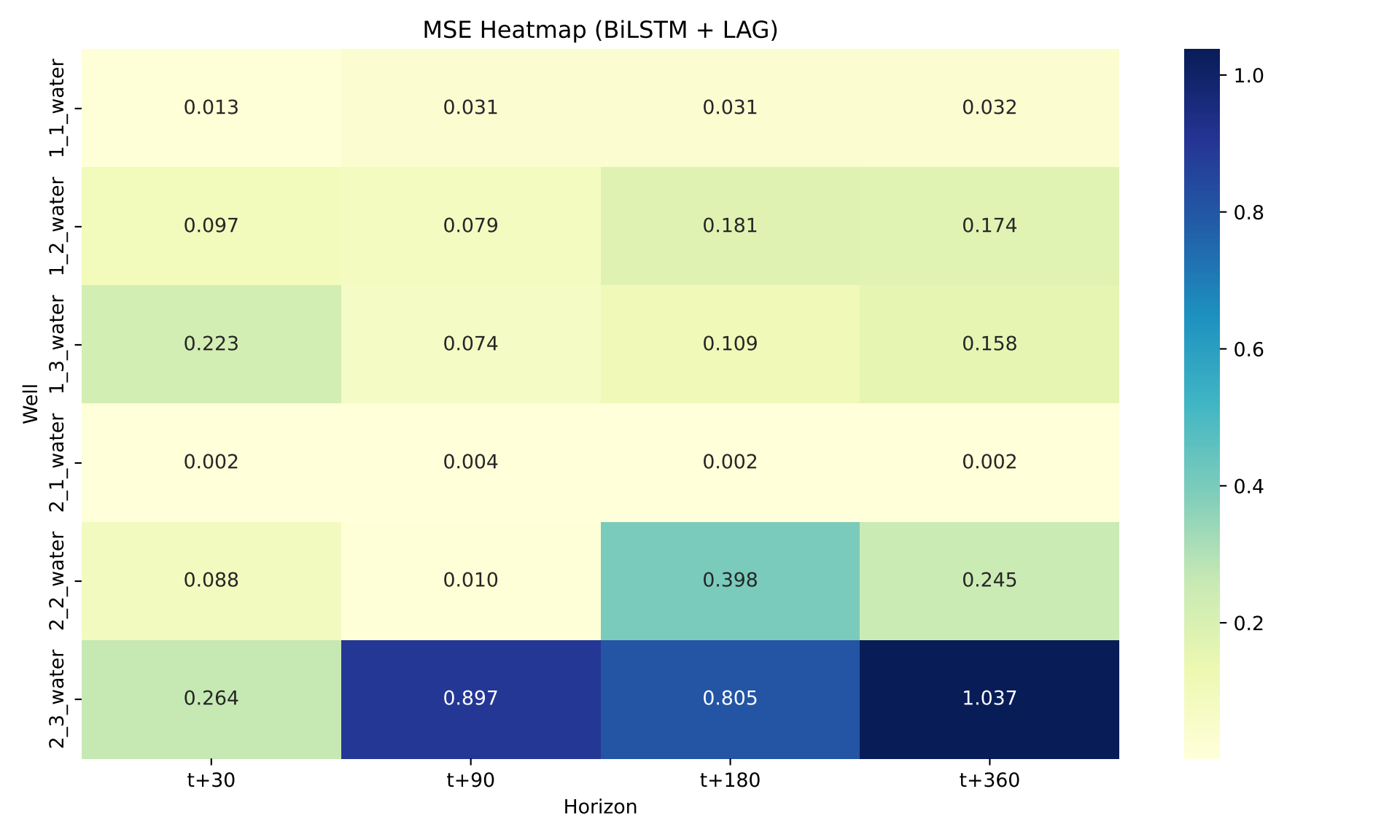
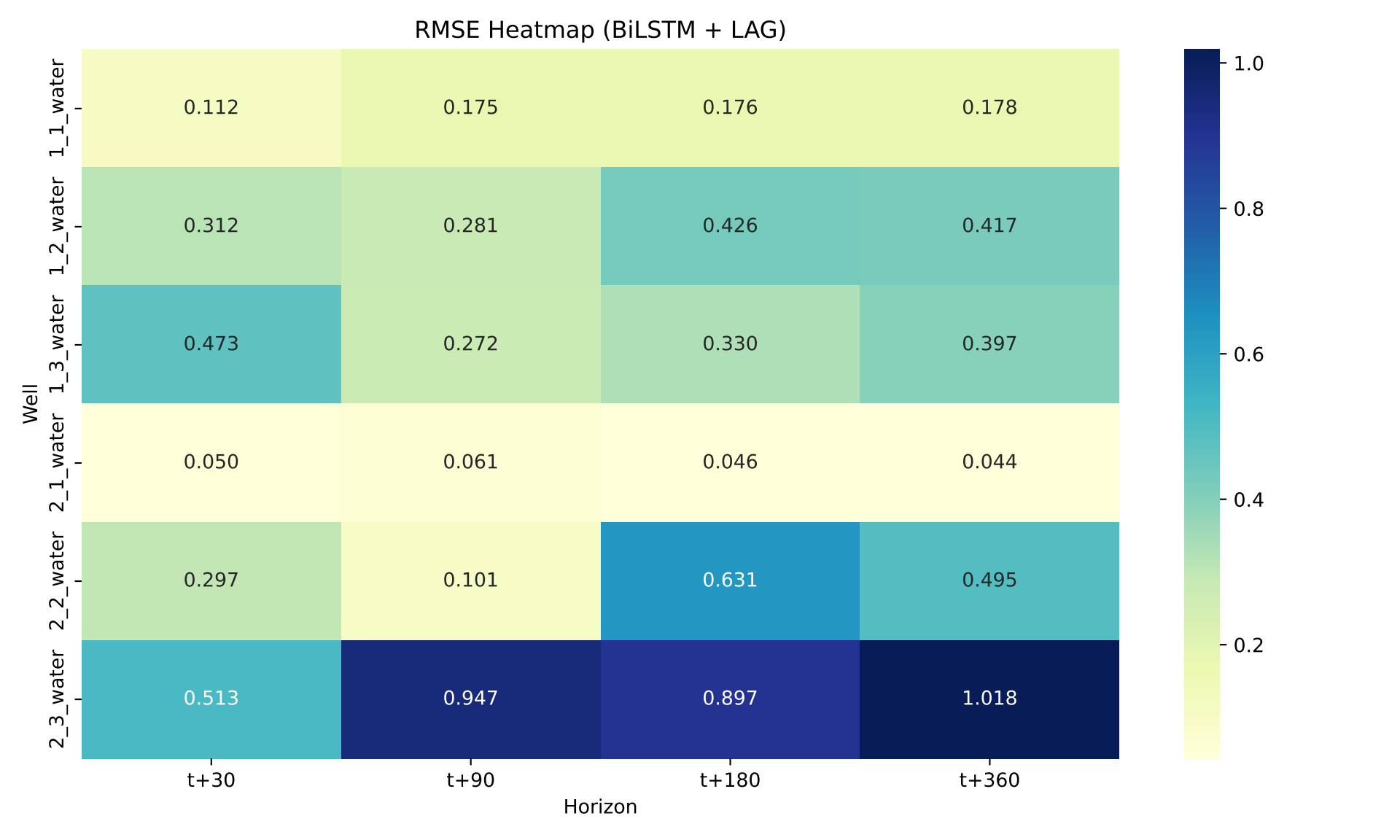
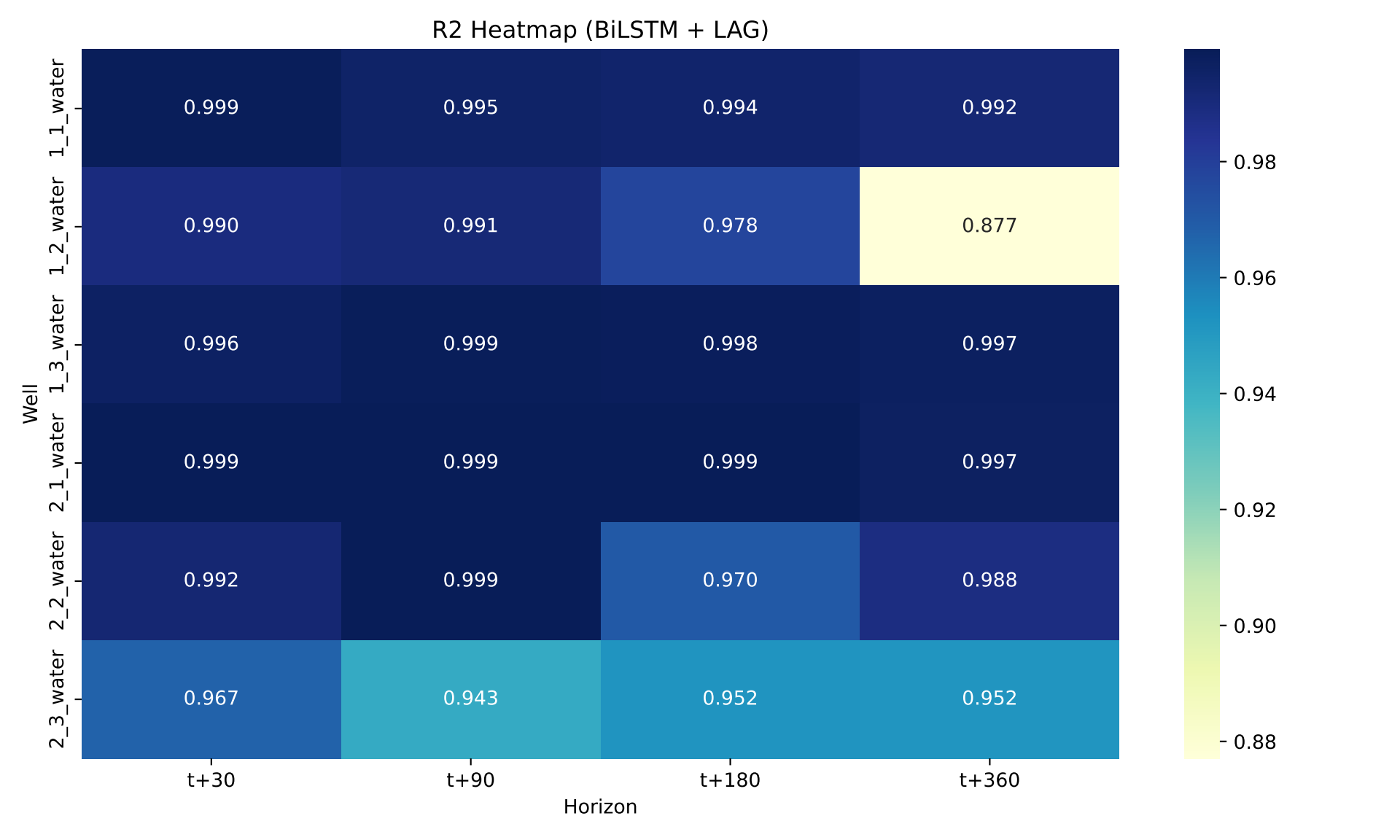
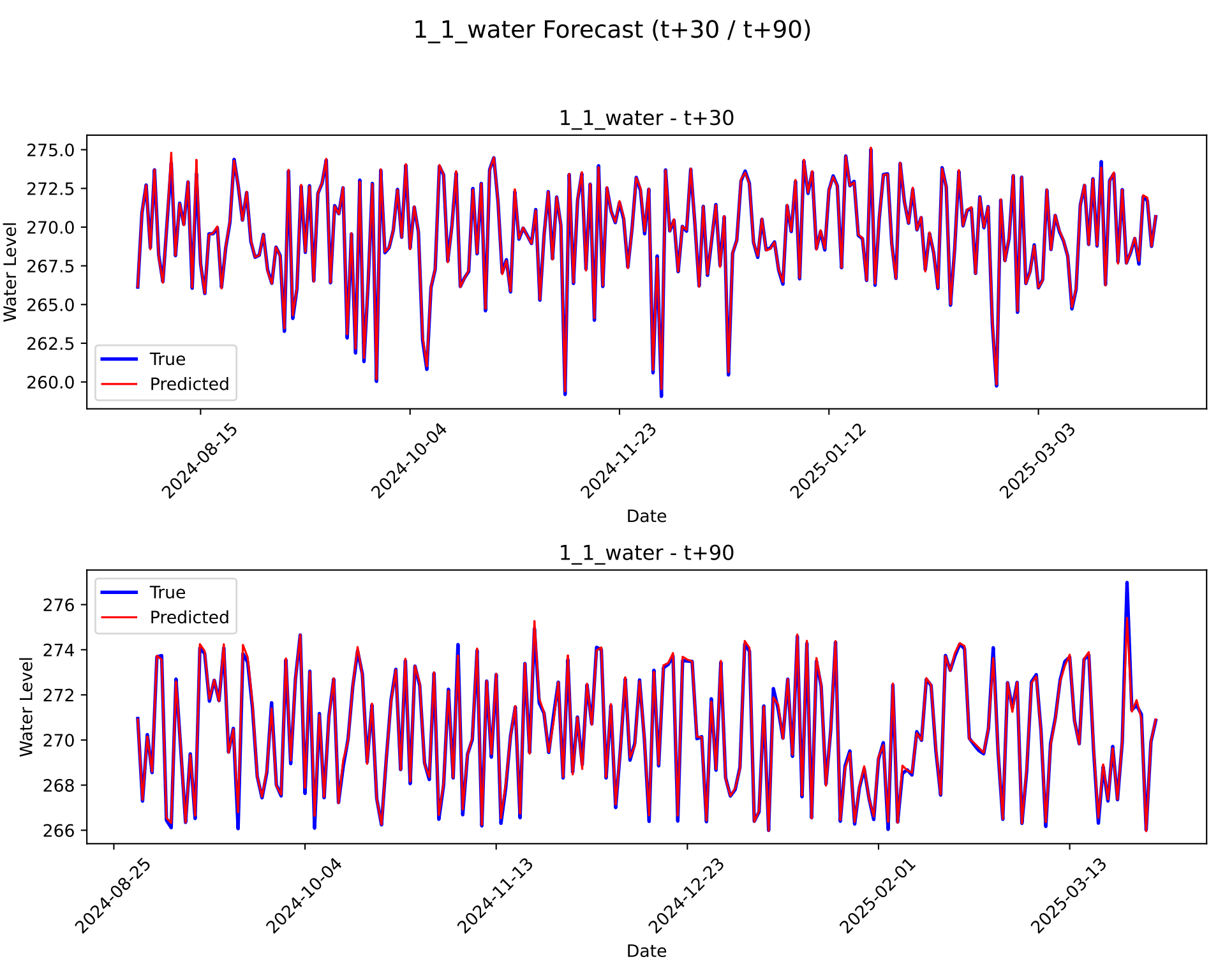
Well	Horizon	MAE	MSE	RMSE	R2
1_1_water	t+30	0.06650000065565109	0.012600000016391277	0.11230000108480453	0.9988
1_1_water	t+90	0.10289999842643738	0.030799999833106995	0.17550000548362732	0.9955
1_1_water	t+180	0.07890000194311142	0.030899999663233757	0.17569999396800995	0.9944
1_1_water	t+360	0.08910000324249268	0.03150000050663948	0.17759999632835388	0.992
1_2_water	t+30	0.23350000381469727	0.09700000286102295	0.31150001287460327	0.9896
1_2_water	t+90	0.20589999854564667	0.07900000363588333	0.28119999170303345	0.9915
1_2_water	t+180	0.2687000036239624	0.18140000104904175	0.42590001225471497	0.9776
1_2_water	t+360	0.3156000077724457	0.17409999668598175	0.4172999858856201	0.8771
1_3_water	t+30	0.26669999957084656	0.22339999675750732	0.47269999980926514	0.9964
1_3_water	t+90	0.18520000576972961	0.07419999688863754	0.27239999175071716	0.9988
1_3_water	t+180	0.2386000007390976	0.10890000313520432	0.32989999651908875	0.9982
1_3_water	t+360	0.2797999978065491	0.15770000219345093	0.39719998836517334	0.997
2_1_water	t+30	0.035199999809265140	0.0024999999441206455	0.05000000074505806	0.9993
2_1_water	t+90	0.04190000146627426	0.003700000001117587	0.0608999989926815	0.9989
2_1_water	t+180	0.03480000048875809	0.0020999999251216650	0.045499999076128006	0.9993
2_1_water	t+360	0.034299999475479126	0.0019000000320374966	0.043699998408555984	0.9967
2_2_water	t+30	0.07109999656677246	0.08789999783039093	0.29649999737739563	0.9923
2_2_water	t+90	0.05849999934434891	0.010099999606609344	0.10050000250339508	0.9992
2_2_water	t+180	0.11909999698400497	0.3982999920845032	0.6310999989509583	0.9703
2_2_water	t+360	0.11240000277757645	0.2451000064611435	0.4950000047683716	0.9884
2_3_water	t+30	0.17800000309944153	0.263700008392334	0.5134999752044678	0.9675
2_3_water	t+90	0.335099995136261	0.8968999981880188	0.9470000267028809	0.9434
2_3_water	t+180	0.3327000141143799	0.805400013923645	0.8974999785423279	0.9524
2_3_water	t+360	0.5613999962806702	1.0372999906539917	1.0184999704360962	0.9519

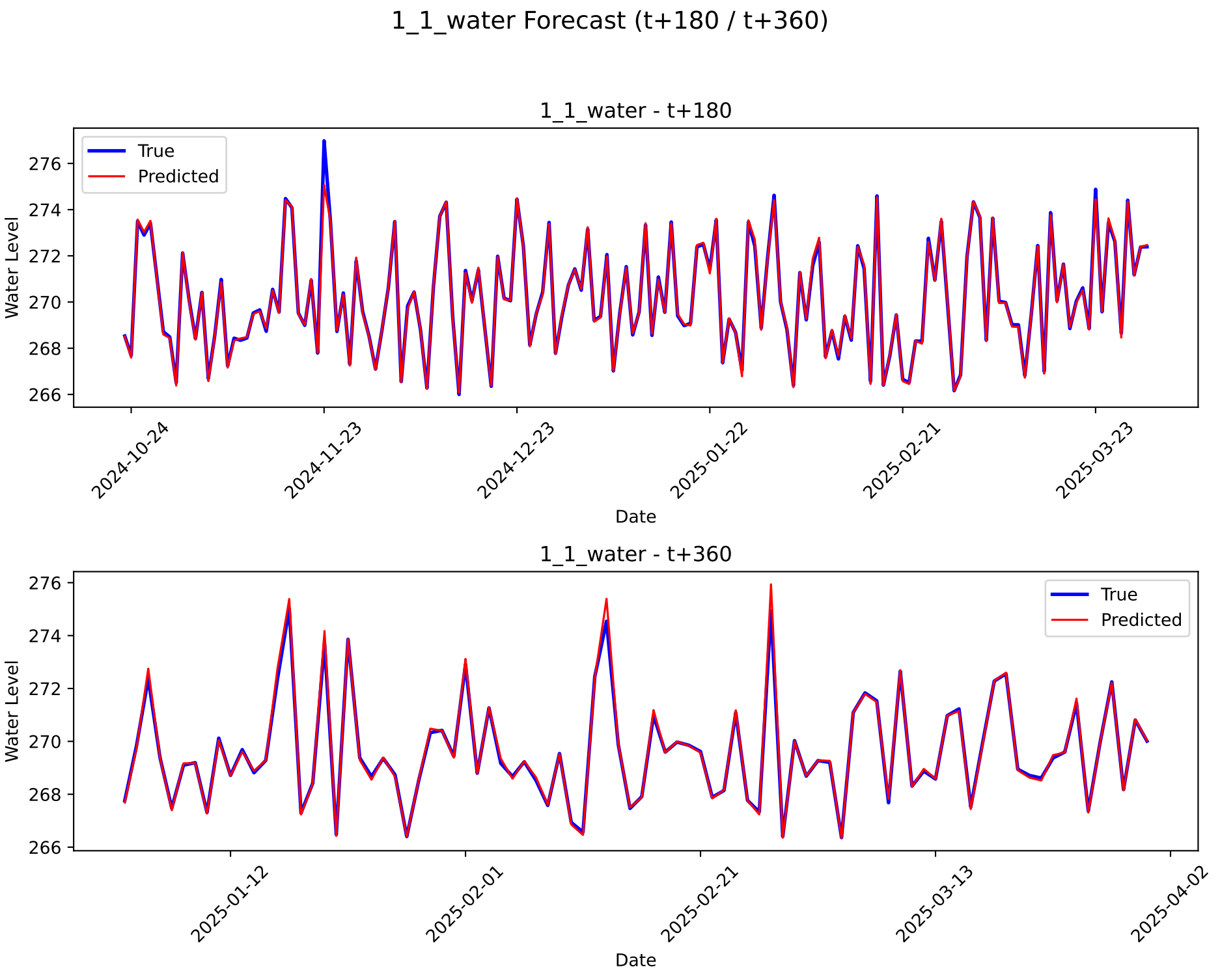

MAE Heatmap (BiLSTM + LAG)
Well
1_1_water
1_2_water
1_3_water
2_1_water
2_2_water
2_3_water
0.066
0.103
0.079
0.089
0.234
0.206
0.269
0.316
0.267
0.185
0.239
0.280
0.035
0.042
0.035
0.034
0.071
0.058
0.119
0.112
0.178
0.335
0.333
0.561
t+30
t+90
t+180
t+360
Horizon
0.5
0.4
0.3
0.2
0.1

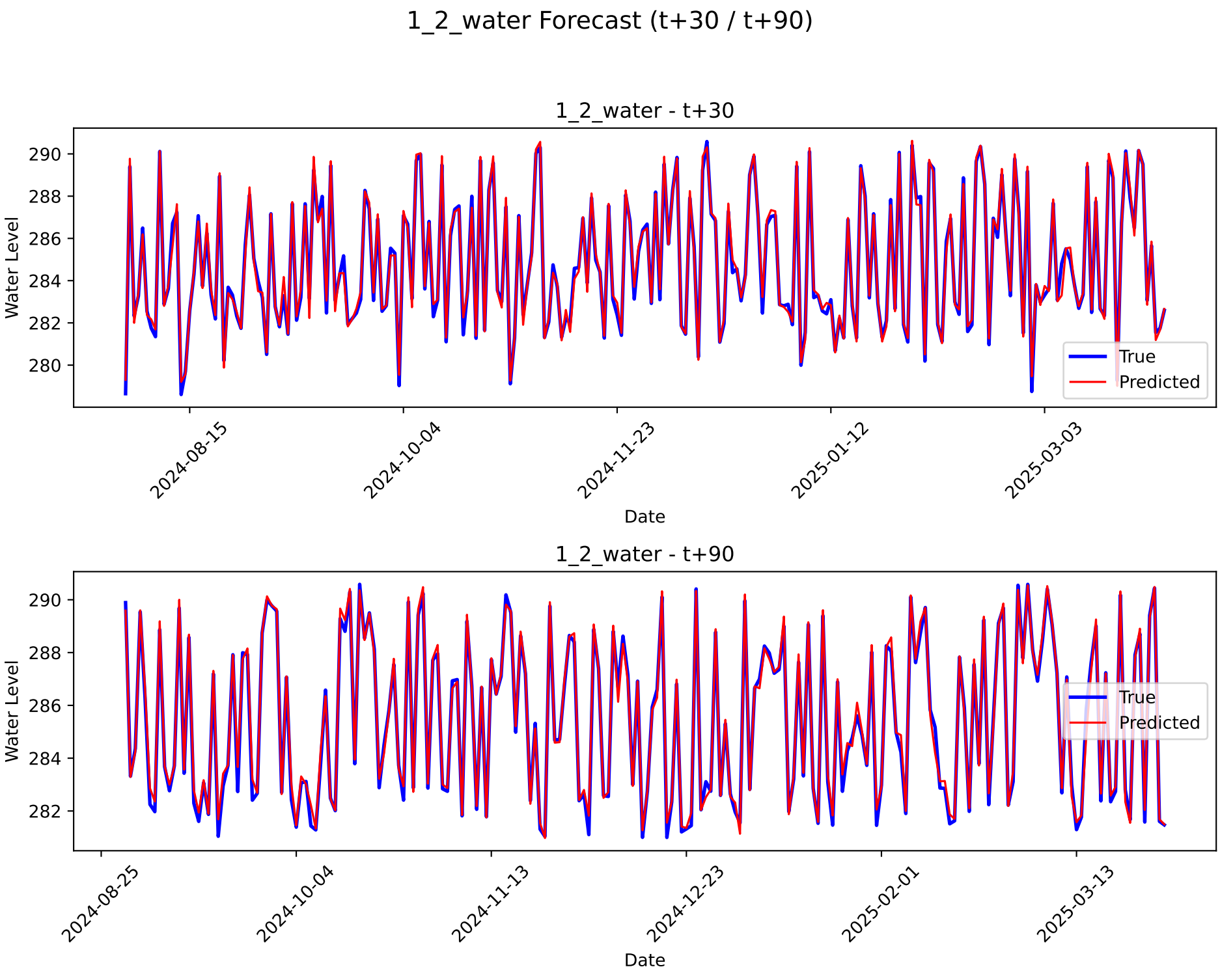

MSE Heatmap (BiLSTM + LAG)
Well
1_1_water
1_2_water
1_3_water
2_1_water
2_2_water
2_3_water
0.013
0.031
0.031
0.032
0.097
0.079
0.181
0.174
0.223
0.074
0.109
0.158
0.002
0.004
0.002
0.002
0.088
0.010
0.398
0.245
0.264
0.897
0.805
1.037
t+30
t+90
t+180
t+360
Horizon
1.0
0.8
0.6
0.4
0.2

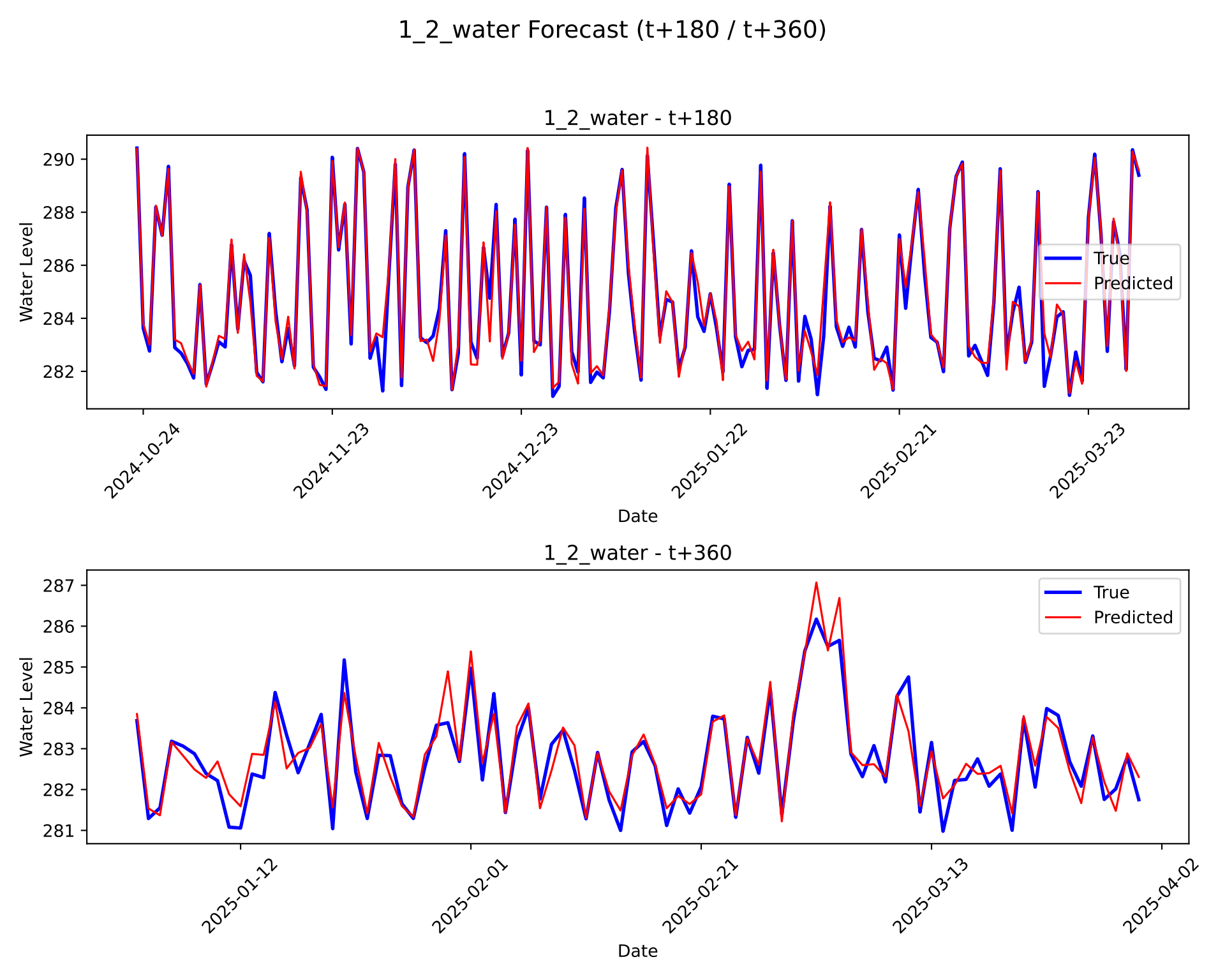

RMSE Heatmap (BiLSTM + LAG)
Well
1_1_water
1_2_water
1_3_water
2_1_water
2_2_water
2_3_water
0.112
0.175
0.176
0.178
0.312
0.281
0.426
0.417
0.473
0.272
0.330
0.397
0.050
0.061
0.046
0.044
0.297
0.101
0.631
0.495
0.513
0.947
0.897
1.018
t+30
t+90
t+180
t+360
Horizon
1.0
0.8
0.6
0.4
0.2

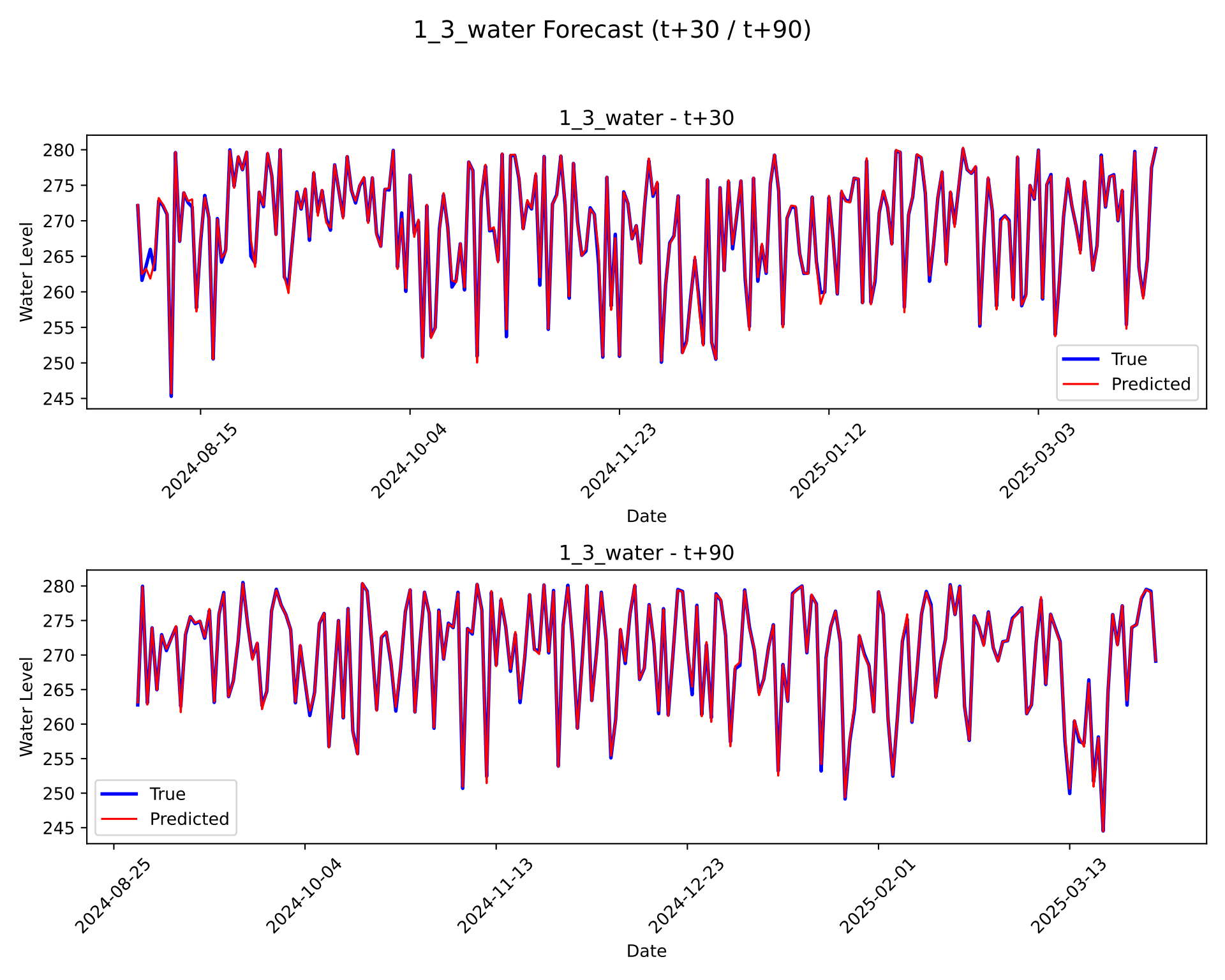

R2 Heatmap (BiLSTM + LAG)
Well
1_1_water
1_2_water
1_3_water
2_1_water
2_2_water
2_3_water
0.999
0.995
0.994
0.992
0.990
0.991
0.978
0.877
0.996
0.999
0.998
0.997
0.999
0.999
0.999
0.997
0.992
0.999
0.970
0.988
0.967
0.943
0.952
0.952
t+30
t+90
t+180
t+360
Horizon
0.98
0.96
0.94
0.92
0.90
0.88

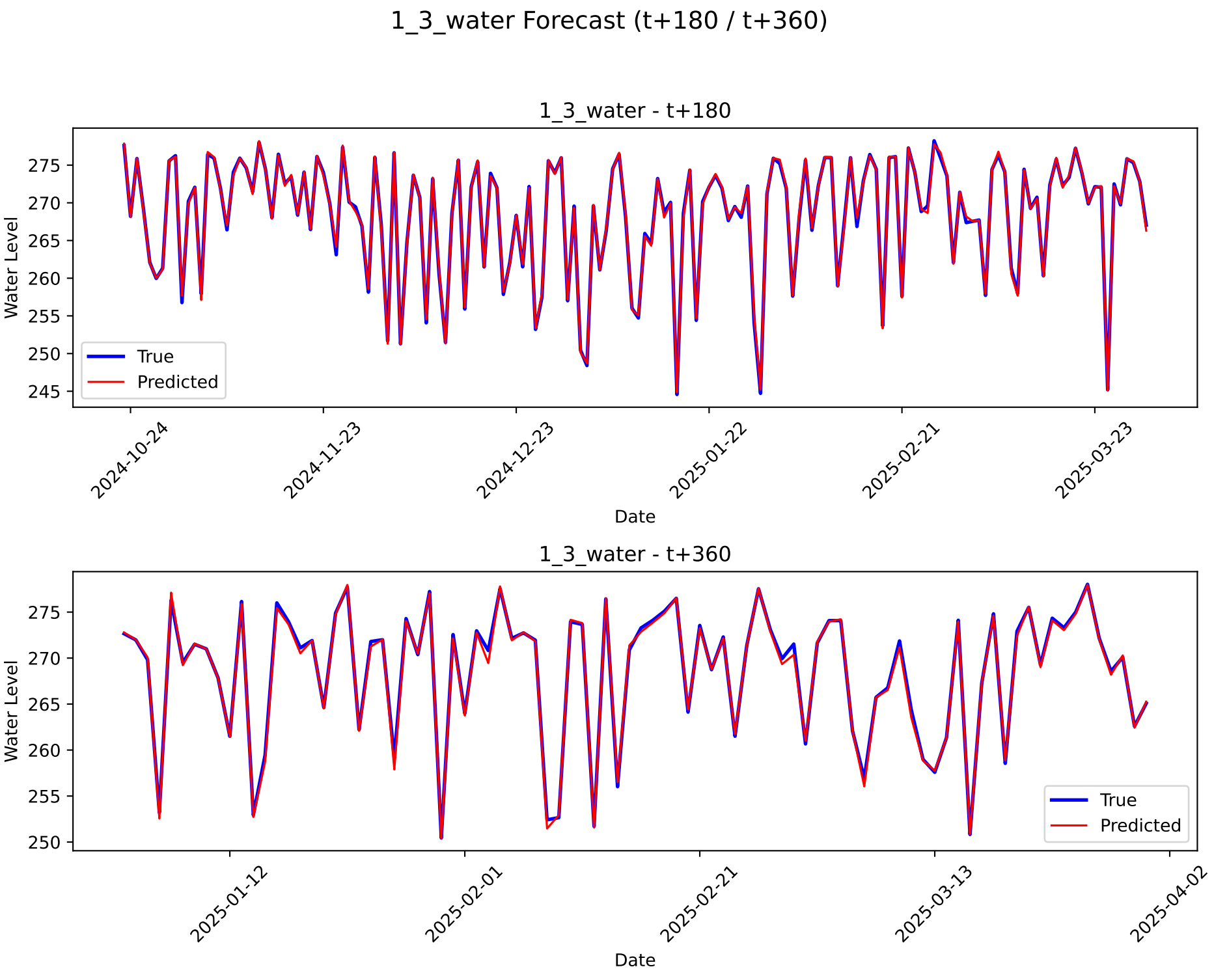

1_1_water Forecast (t+30 / t+90)
1_1_water - t+30
Water Level
275.0
272.5
270.0
267.5
265.0
262.5
260.0
True
Predicted
2024-08-15
2024-10-04
2024-11-23
2025-01-12
2025-03-03
Date
1_1_water - t+90
Water Level
276
274
272
270
268
266
True
Predicted
2024-08-25
2024-10-04
2024-11-13
2024-12-23
2025-02-01
2025-03-13
Date

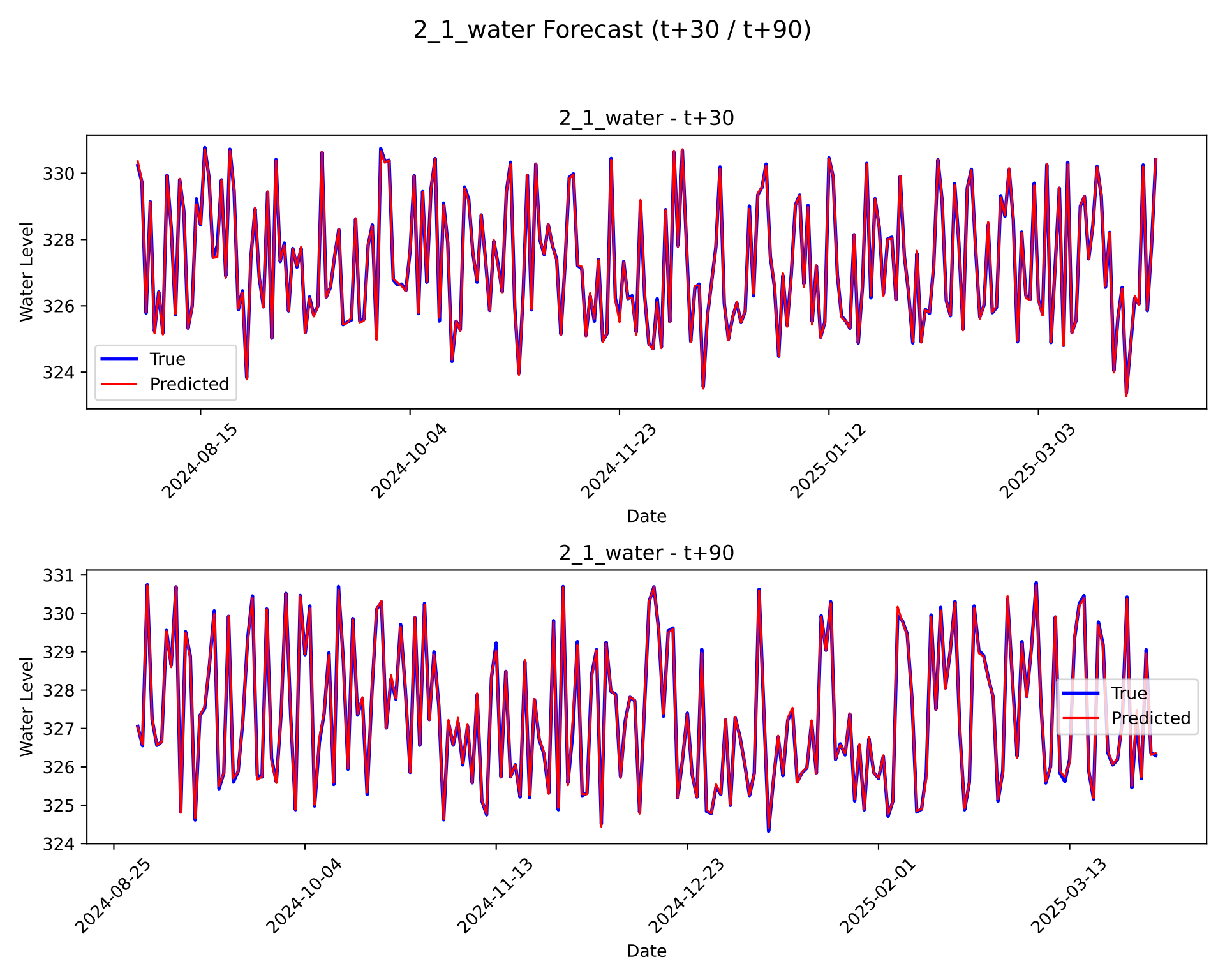

1_1_water Forecast (t+180 / t+360)
1_1_water - t+180
True
Predicted
Water Level
276
274
272
270
268
266
2024-10-24
2024-11-23
2024-12-23
2025-01-22
2025-02-21
2025-03-23
Date
1_1_water - t+360
True
Predicted
Water Level
276
274
272
270
268
266
2025-01-12
2025-02-01
2025-02-21
2025-03-13
2025-04-02
Date

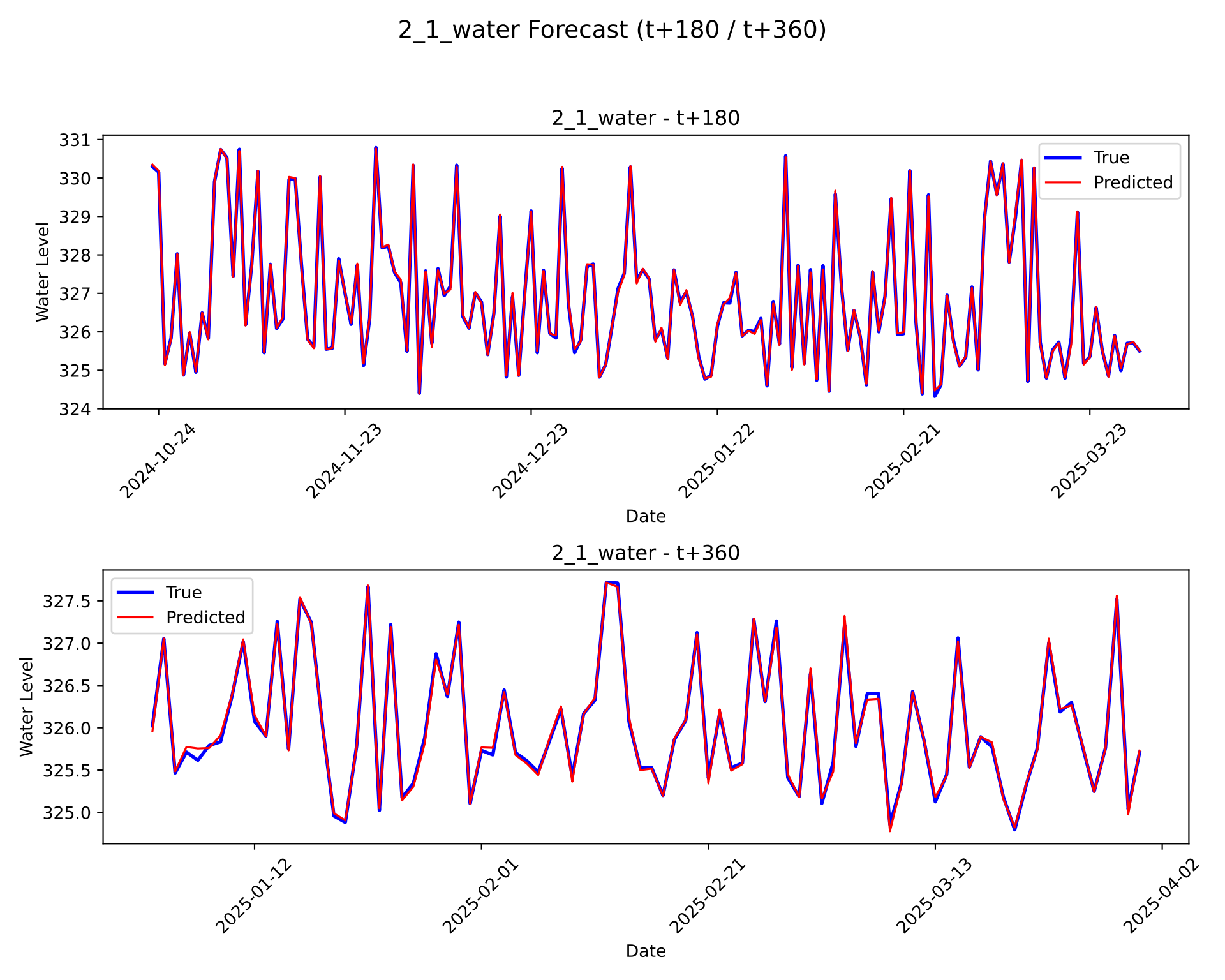

1_2_water Forecast (t+30 / t+90)
1_2_water - t+30
Water Level
290
288
286
284
282
280
2024-08-15
2024-10-04
2024-11-23
2025-01-12
2025-03-03
Date
True
Predicted
1_2_water - t+90
Water Level
290
288
286
284
282
2024-08-25
2024-10-04
2024-11-13
2024-12-23
2025-02-01
2025-03-13
Date
True
Predicted

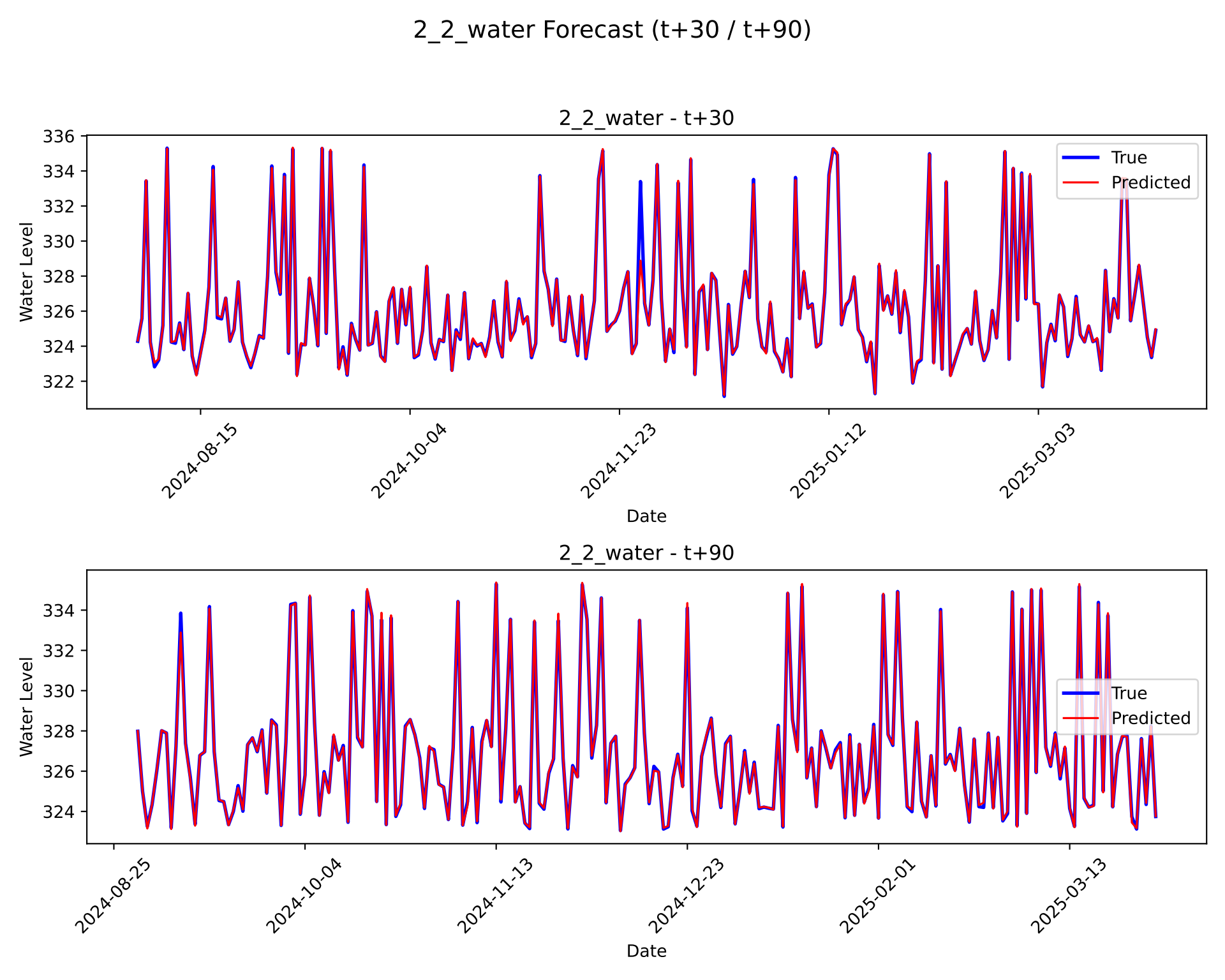

1_2_water Forecast (t+180 / t+360)
1_2_water - t+180
Water Level
290
288
286
284
282
True
Predicted
2024-10-24
2024-11-23
2024-12-23
2025-01-22
2025-02-21
2025-03-23
Date
1_2_water - t+360
Water Level
287
286
285
284
283
282
281
True
Predicted
2025-01-12
2025-02-01
2025-02-21
2025-03-13
2025-04-02
Date

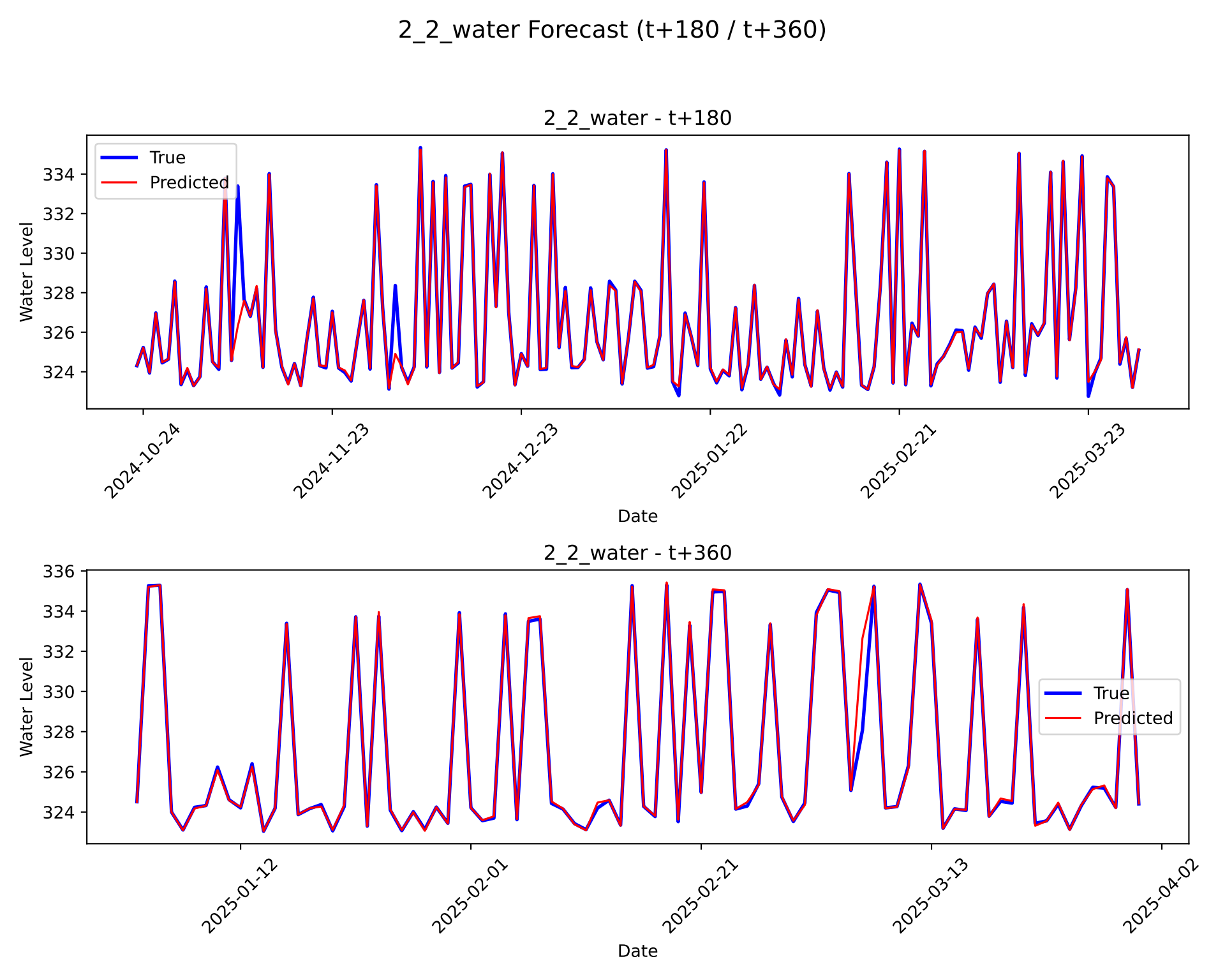

1_3_water Forecast (t+30 / t+90)
1_3_water - t+30
Water Level
Date
True
Predicted
2024-08-15
2024-10-04
2024-11-23
2025-01-12
2025-03-03
1_3_water - t+90
Water Level
Date
True
Predicted
2024-08-25
2024-10-04
2024-11-13
2024-12-23
2025-02-01
2025-03-13

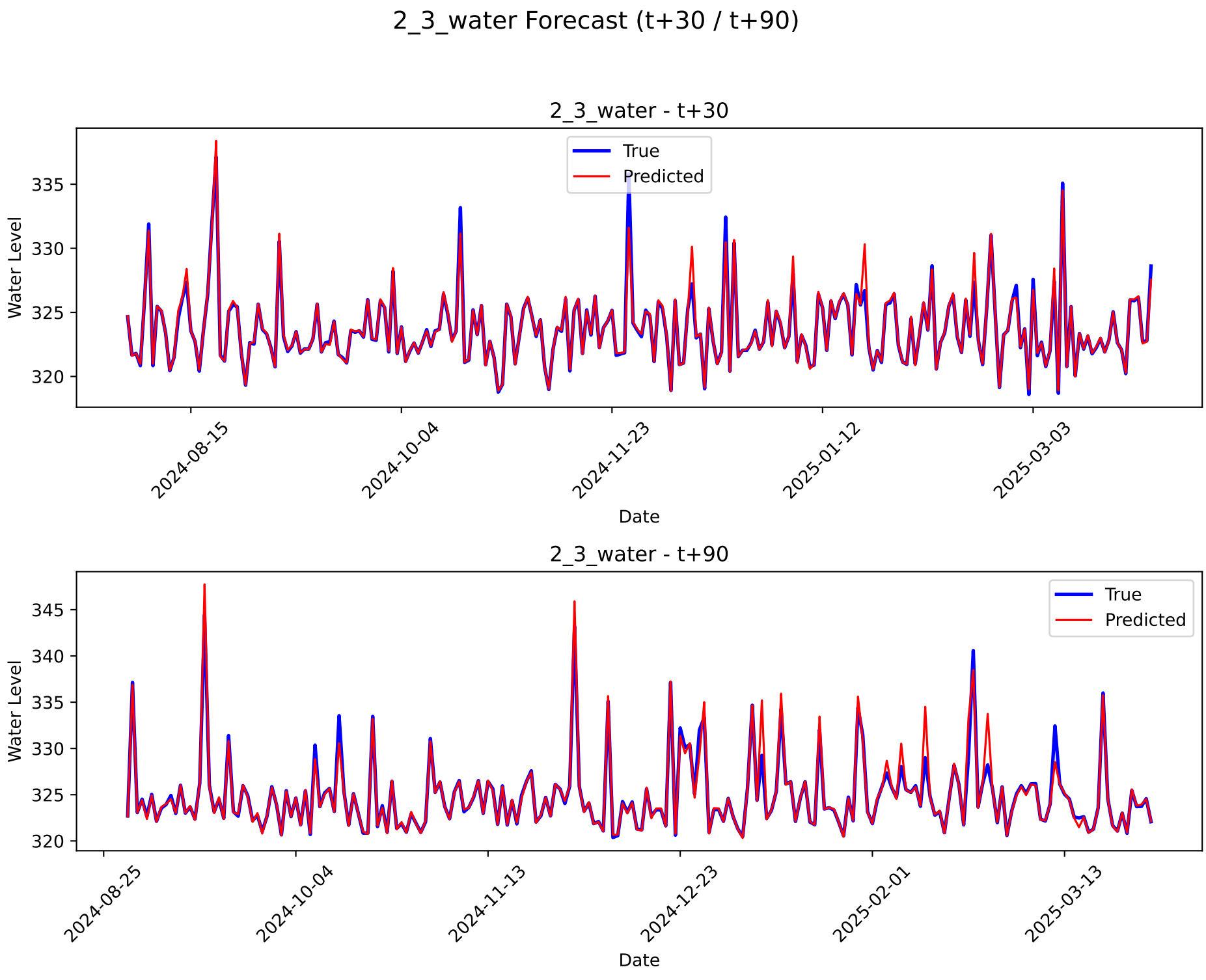

1_3_water Forecast (t+180 / t+360)
1_3_water - t+180
Water Level
Date
True
Predicted
2024-10-24
2024-11-23
2024-12-23
2025-01-22
2025-02-21
2025-03-23
1_3_water - t+360
Water Level
Date
True
Predicted
2025-01-12
2025-02-01
2025-02-21
2025-03-13
2025-04-02

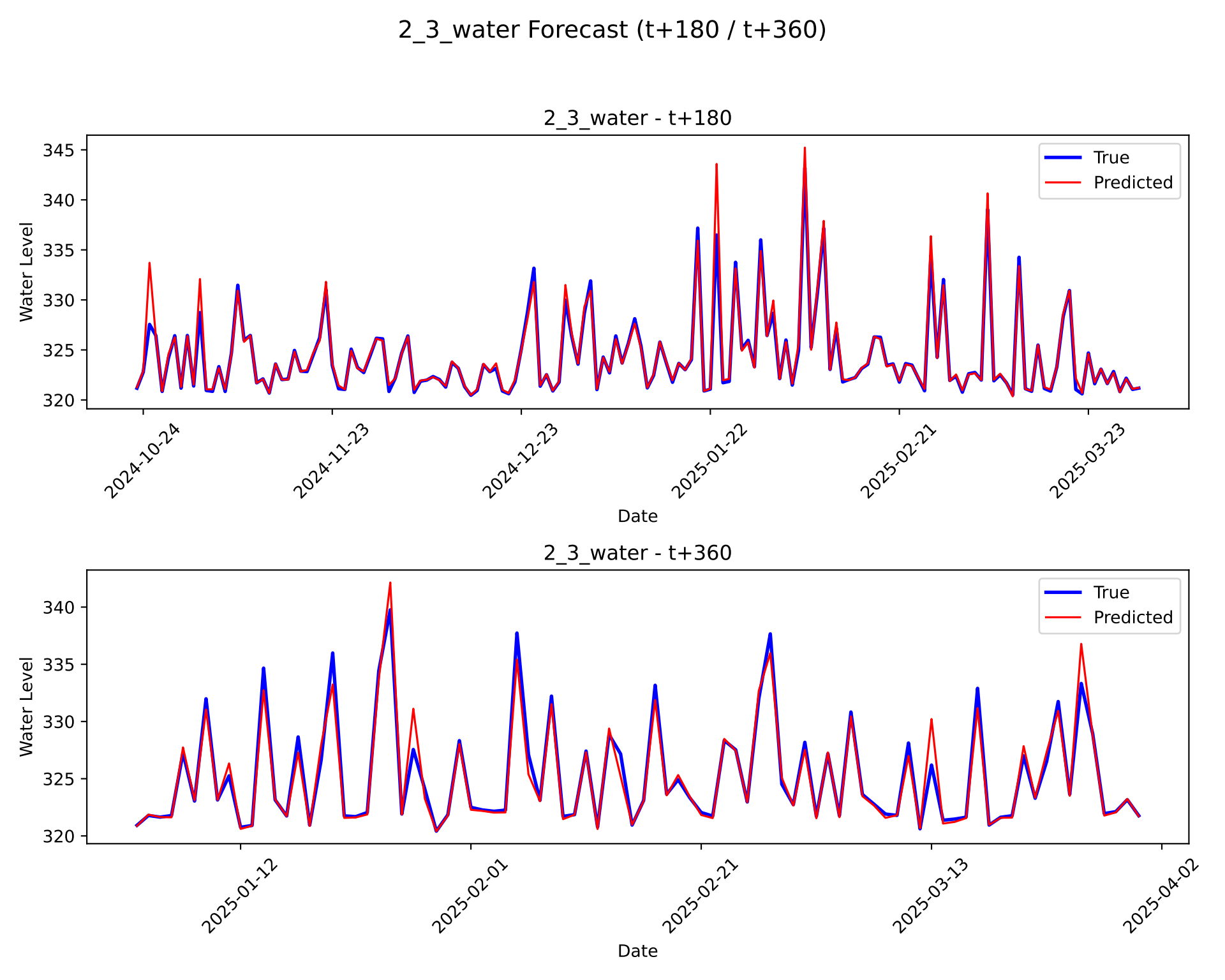

2_1_water Forecast (t+30 / t+90)
2_1_water - t+30
Water Level
330
328
326
324
True
Predicted
2024-08-15
2024-10-04
2024-11-23
2025-01-12
2025-03-03
Date
2_1_water - t+90
Water Level
331
330
329
328
327
326
325
324
True
Predicted
2024-08-25
2024-10-04
2024-11-13
2024-12-23
2025-02-01
2025-03-13
Date


2_1_water Forecast (t+180 / t+360)
2_1_water - t+180
Water Level
Date
True
Predicted
331
330
329
328
327
326
325
324
2024-10-24
2024-11-23
2024-12-23
2025-01-22
2025-02-21
2025-03-23
2_1_water - t+360
Water Level
Date
True
Predicted
327.5
327.0
326.5
326.0
325.5
325.0
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
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
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
True
Predicted
Water Level
334
332
330
328
326
324
2024-10-24
2024-11-23
2024-12-23
2025-01-22
2025-02-21
2025-03-23
Date
2_2_water - t+360
336
334
332
330
328
326
324
Water Level
True
Predicted
2025-01-12
2025-02-01
2025-02-21
2025-03-13
2025-04-02
Date


2_3_water Forecast (t+30 / t+90)
2_3_water - t+30
True
Predicted
Water Level
335
330
325
320
2024-08-15
2024-10-04
2024-11-23
2025-01-12
2025-03-03
Date
2_3_water - t+90
True
Predicted
Water Level
345
340
335
330
325
320
2024-08-25
2024-10-04
2024-11-13
2024-12-23
2025-02-01
2025-03-13
Date


2_3_water Forecast (t+180 / t+360)
2_3_water - t+180
Water Level
Date
True
Predicted
345
340
335
330
325
320
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
340
335
330
325
320
2025-01-12
2025-02-01
2025-02-21
2025-03-13
2025-04-02