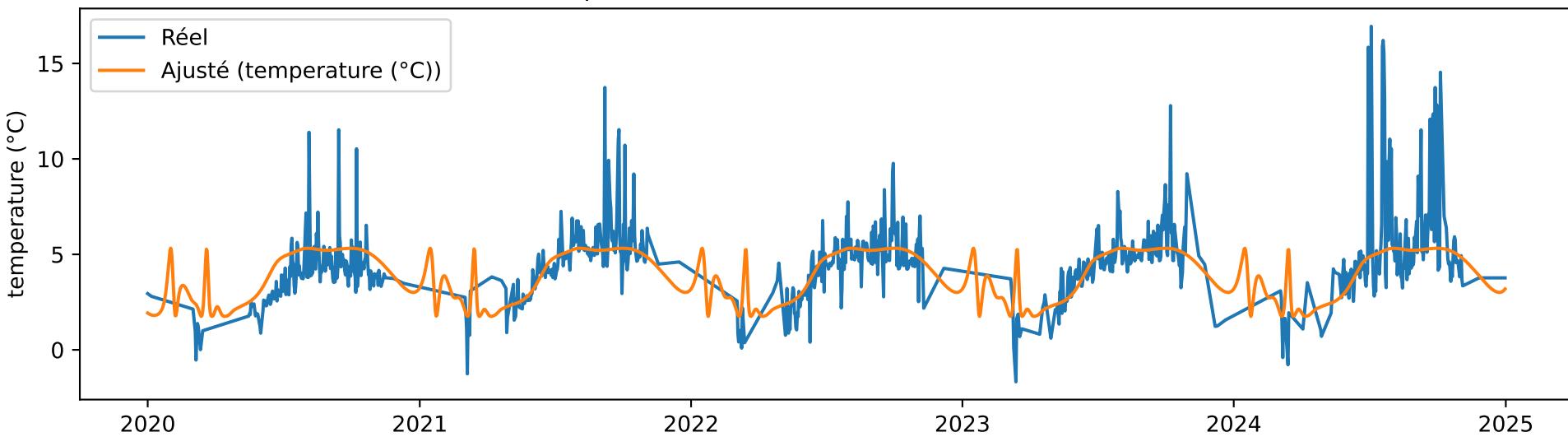
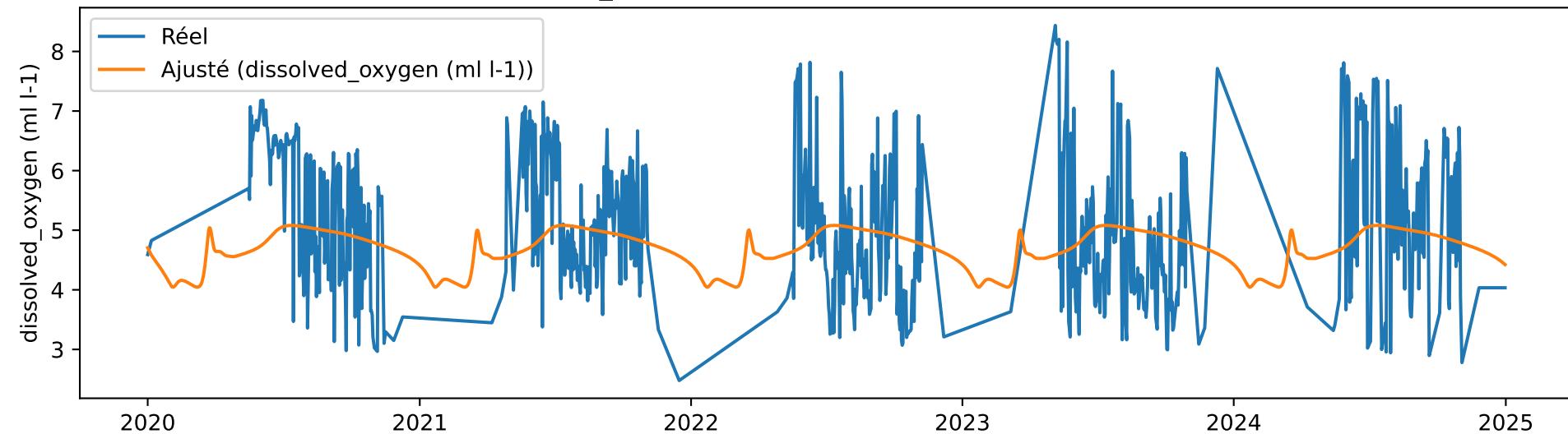


temperature (°C) — RMSE=1.533 R2=0.403



dissolved_oxygen (ml l-1) — RMSE=1.268 R2=0.057



Résultats LSTM multivarié (après ajustement sinusoïdal)

Période entraînement : 2000-01-01 -> 2019-12-31

Période test : 2020-01-01 -> 2024-12-31

Metrics et paramètres par variable :

- temperature ($^{\circ}$ C): RMSE=1.5329, R2=0.4025 (a=-1.786720, b=1.377465, c=-1.997136, d=3.535841, R2_fit=0.4025)
- dissolved_oxygen (ml l⁻¹): RMSE=1.2681, R2=0.0566 (a=-0.753266, b=0.667633, c=0.008516, d=4.798156, R2_f=0.0566)