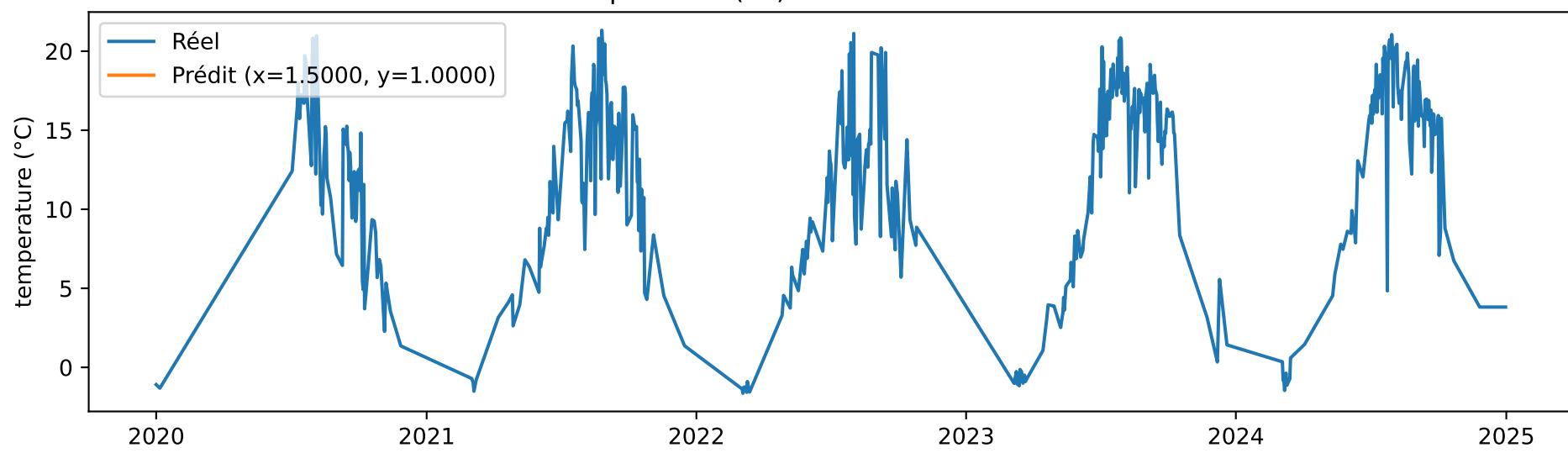
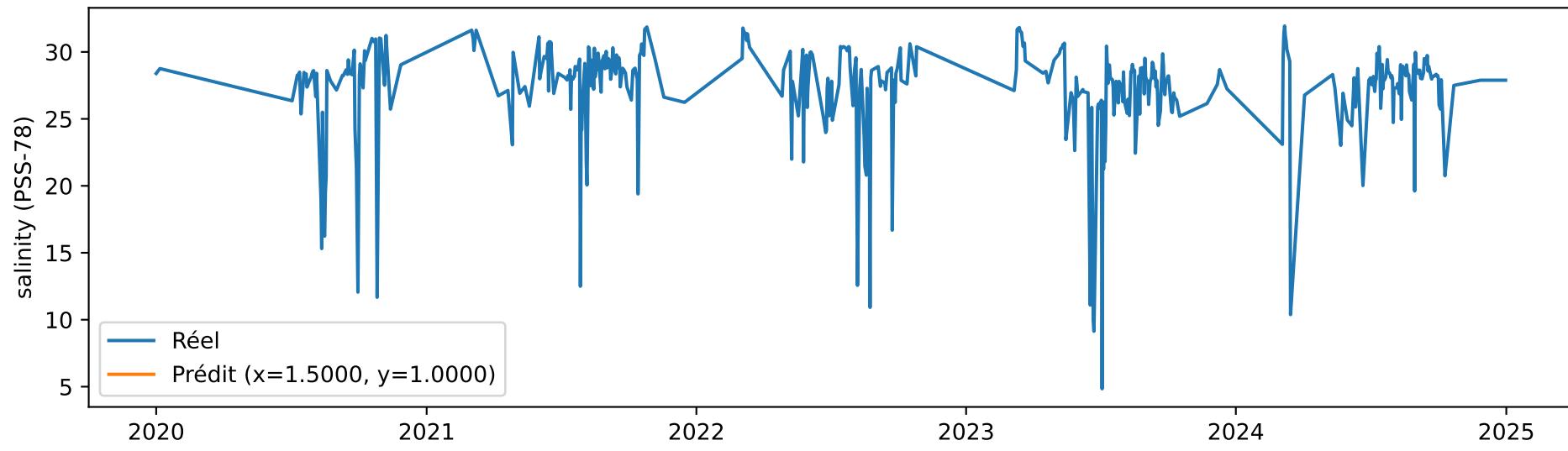


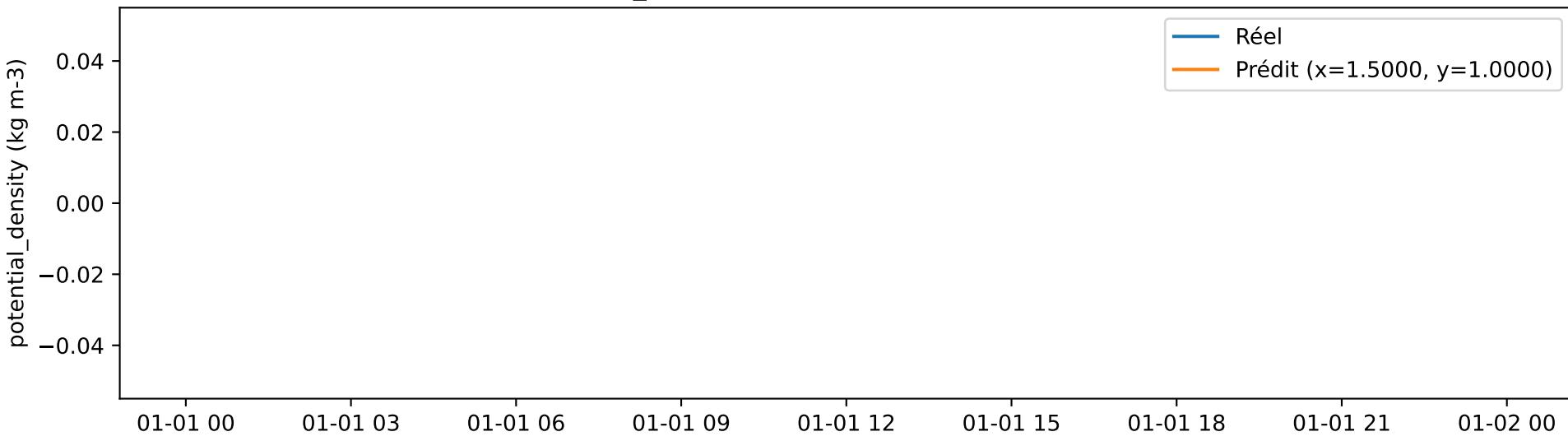
temperature (°C) — RMSE=nan R2=nan



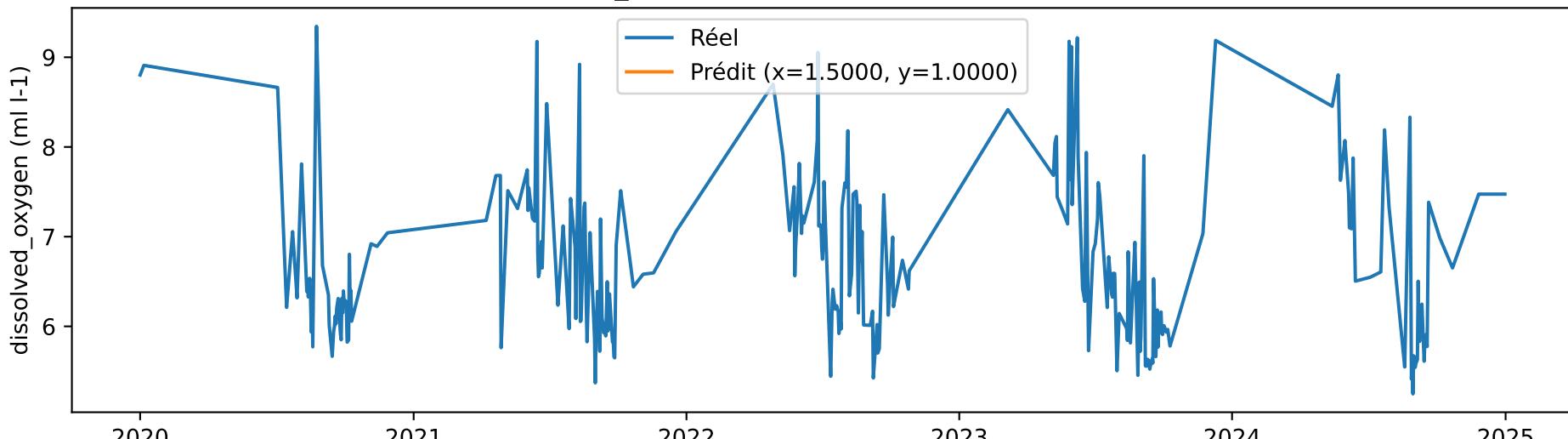
salinity (PSS-78) — RMSE=nan R2=nan



potential_density (kg m-3) — RMSE=nan R2=nan



dissolved_oxygen (ml l-1) — RMSE=nan R2=nan



Résultats LSTM multivarié (après OLS)

Période entraînement : 2000-02-16 -> 2019-12-31

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

Metrics par variable (après transformation optimale) :

- temperature (°C): RMSE=nan, R2=nan ($x=1.500000$, $y=1.000000$, $R2_{opt}=nan$)
- salinity (PSS-78): RMSE=nan, R2=nan ($x=1.500000$, $y=1.000000$, $R2_{opt}=nan$)
- potential_density (kg m⁻³): RMSE=nan, R2=nan ($x=1.500000$, $y=1.000000$, $R2_{opt}=nan$)
- dissolved_oxygen (ml l⁻¹): RMSE=nan, R2=nan ($x=1.500000$, $y=1.000000$, $R2_{opt}=nan$)