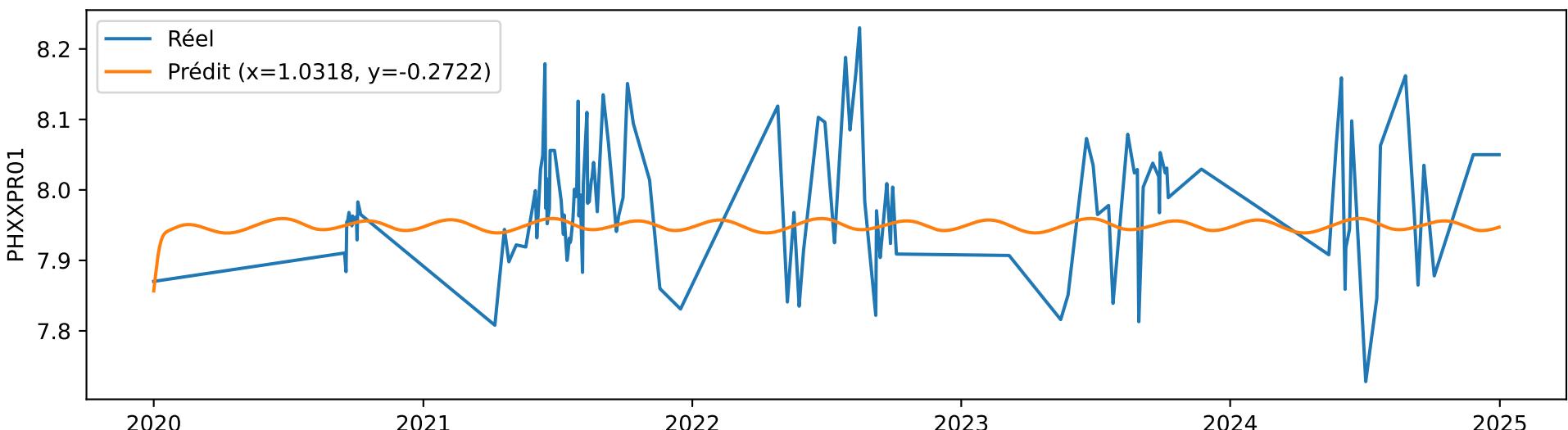
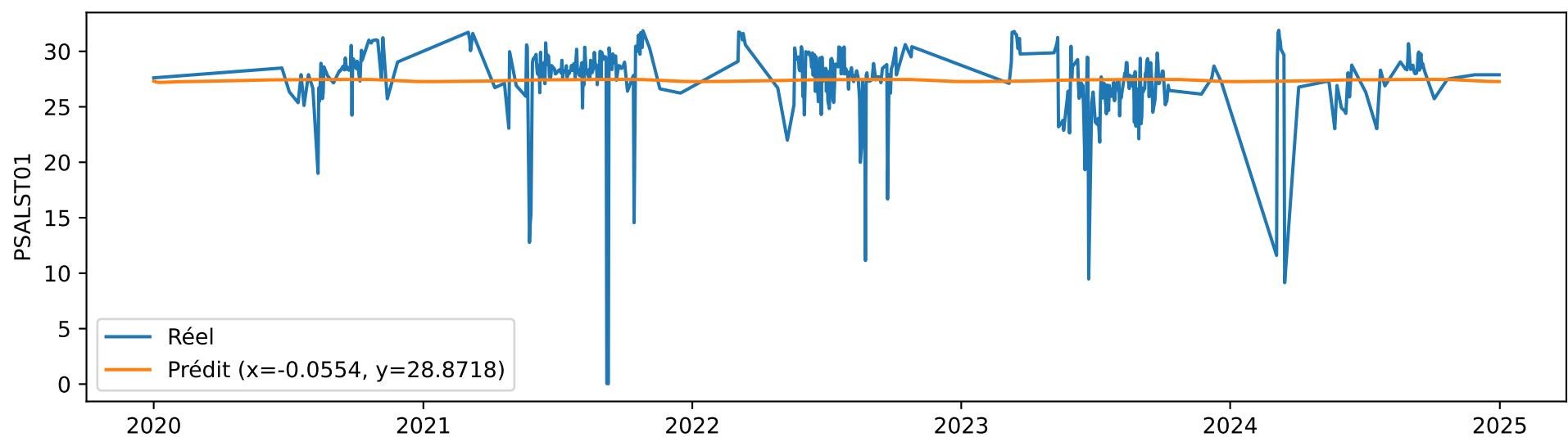


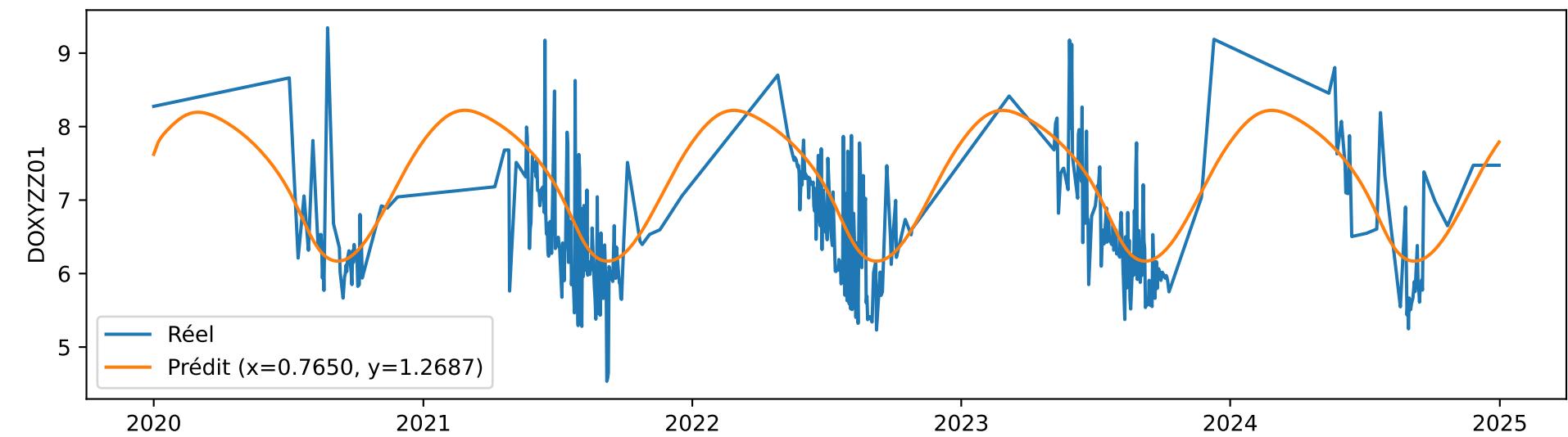
PHXXPR01 — RMSE=0.080 R2=0.009



PSALST01 — RMSE=3.214 R2=0.001



DOXYZZ01 — RMSE=0.621 R2=0.568



Résultats LSTM multivarié (après OLS)

Période entraînement : 2000-03-01 -> 2019-12-31

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

Metrics par variable (après transformation optimale) :

- PHXXPR01: RMSE=0.0796, R2=0.0086 ($x=1.031788$, $y=-0.272227$, $R2_{opt}=0.008571$)
- PSALST01: RMSE=3.2144, R2=0.0005 ($x=-0.055367$, $y=28.871766$, $R2_{opt}=0.000523$)
- DOXYZZ01: RMSE=0.6206, R2=0.5680 ($x=0.765005$, $y=1.268746$, $R2_{opt}=0.568049$)