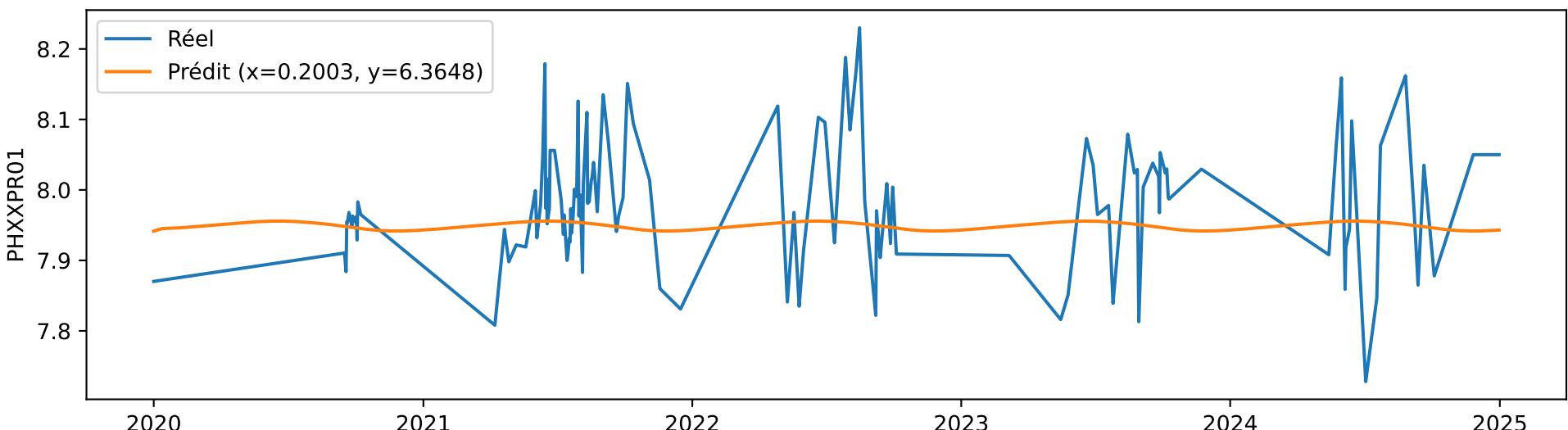
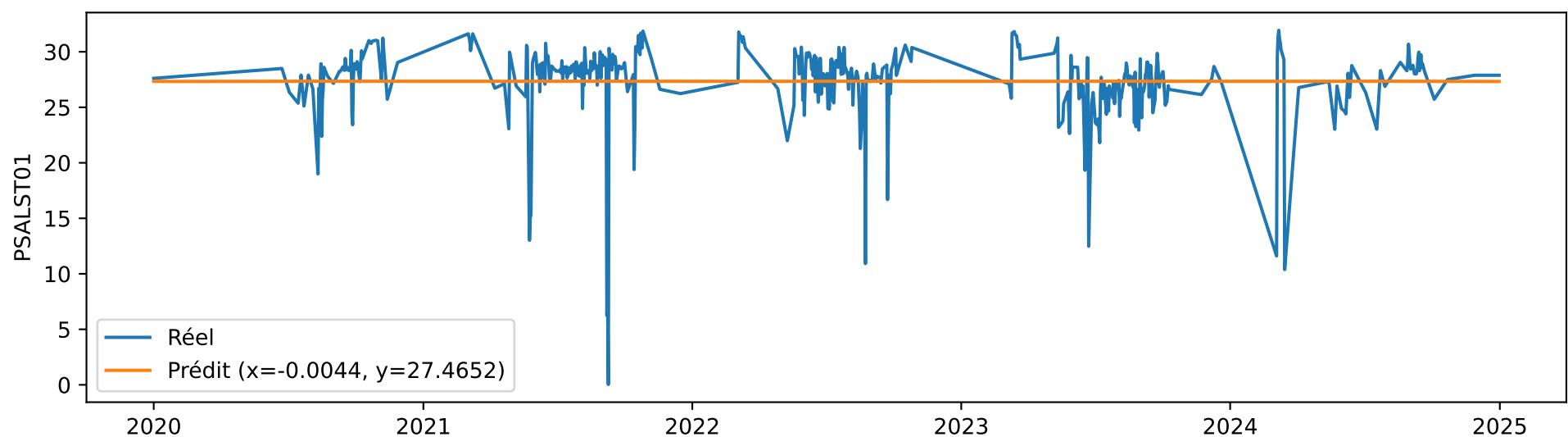


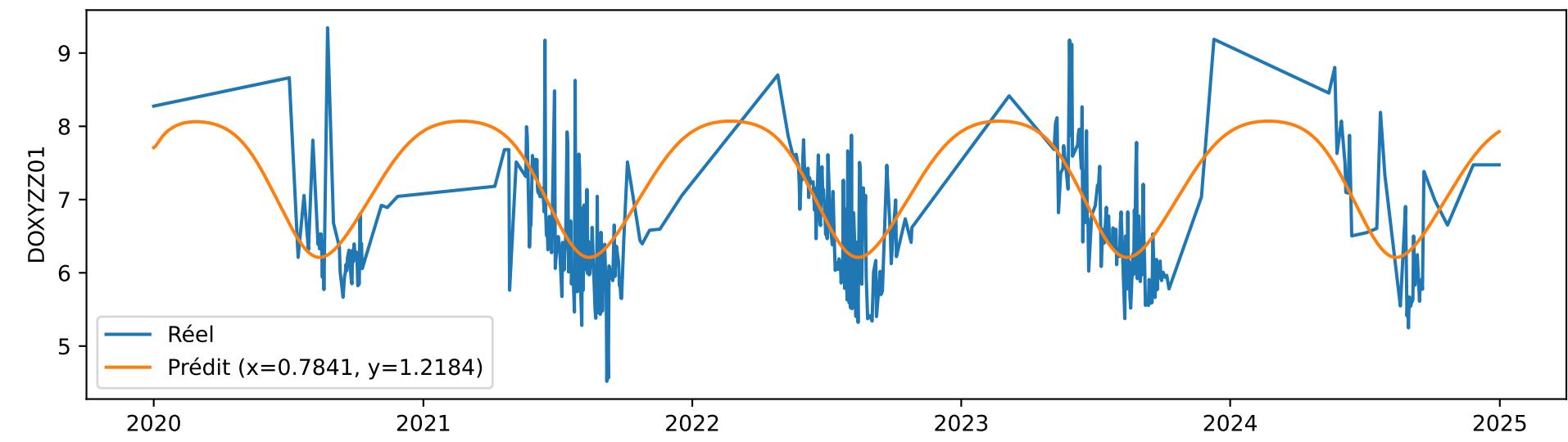
PHXXPR01 — RMSE=0.080 R2=0.004



PSALST01 — RMSE=3.077 R2=0.000



DOXYZZ01 — RMSE=0.674 R2=0.486



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=0.0797, R2=0.0037 ($x=0.200301$, $y=6.364796$, $R2_{opt}=0.003691$)
- PSALST01: RMSE=3.0771, R2=0.0000 ($x=-0.004401$, $y=27.465224$, $R2_{opt}=0.000008$)
- DOXYZZ01: RMSE=0.6736, R2=0.4864 ($x=0.784109$, $y=1.218438$, $R2_{opt}=0.486433$)