

N-BEATS Multivariable — Resumen

Archivo: data/weatherHistory_normalize.csv

Tiempo: Formatted Date | Objetivo: Temperature (C)_normalized

Features (15): ['h_sin', 'h_cos', 'dow_sin', 'dow_cos', 'doy_sin', 'doy_cos', 'Precip Type_normalized', 'Temperature_normalized']

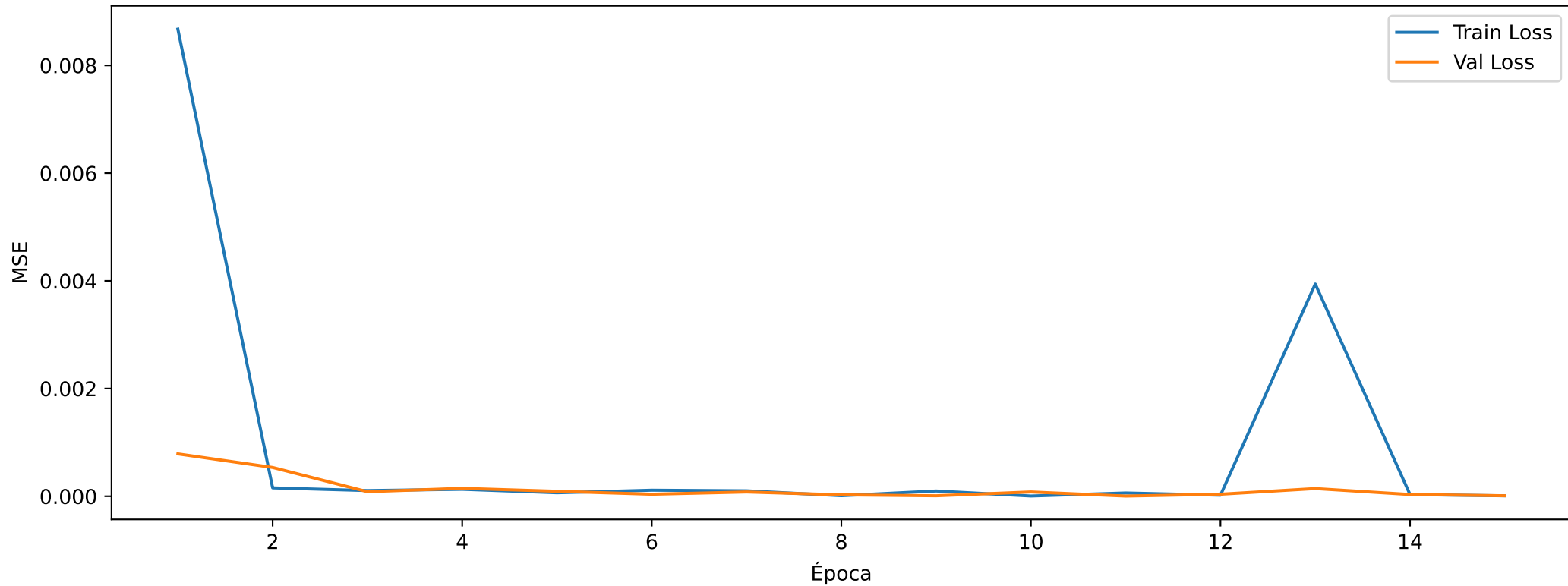
Puntos totales: 96453

Split → Train: 67517 | Val: 14468 | Test: 14468

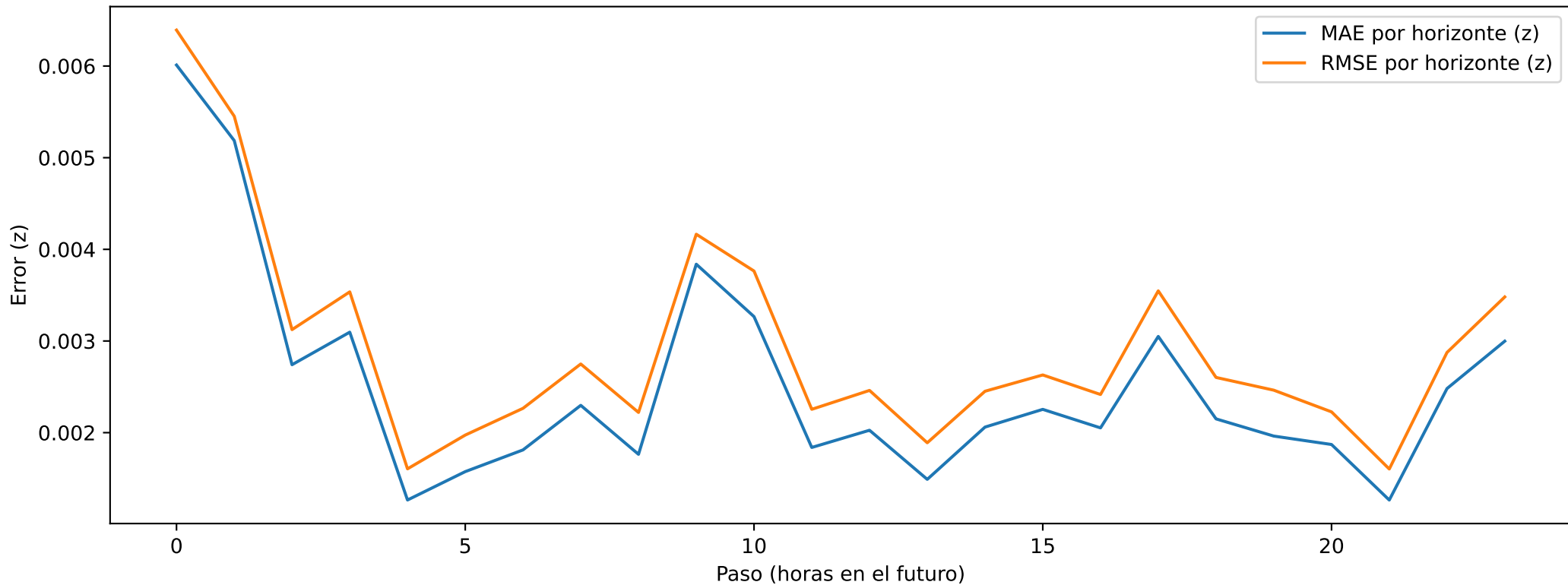
Ventana: H=336 L=24 input_size=5040

Métricas test → MSE: 0.000010 | MAE: 0.0025 | RMSE: 0.0031

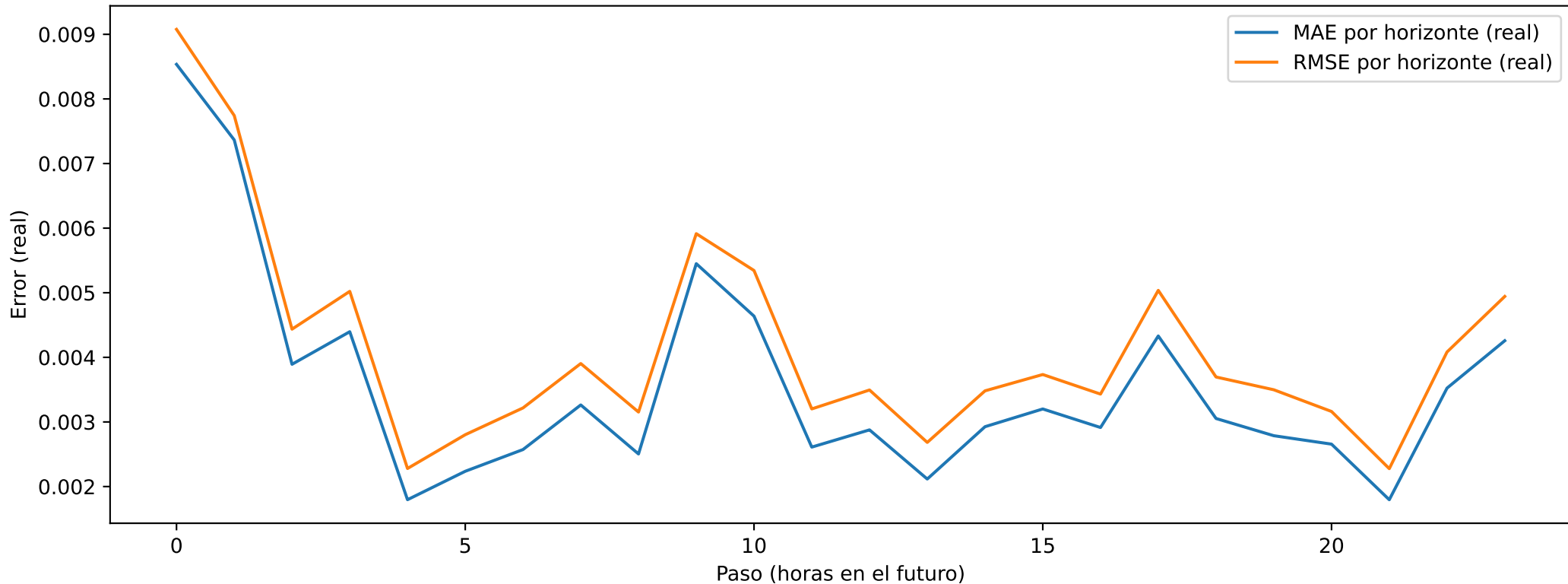
Curvas de aprendizaje



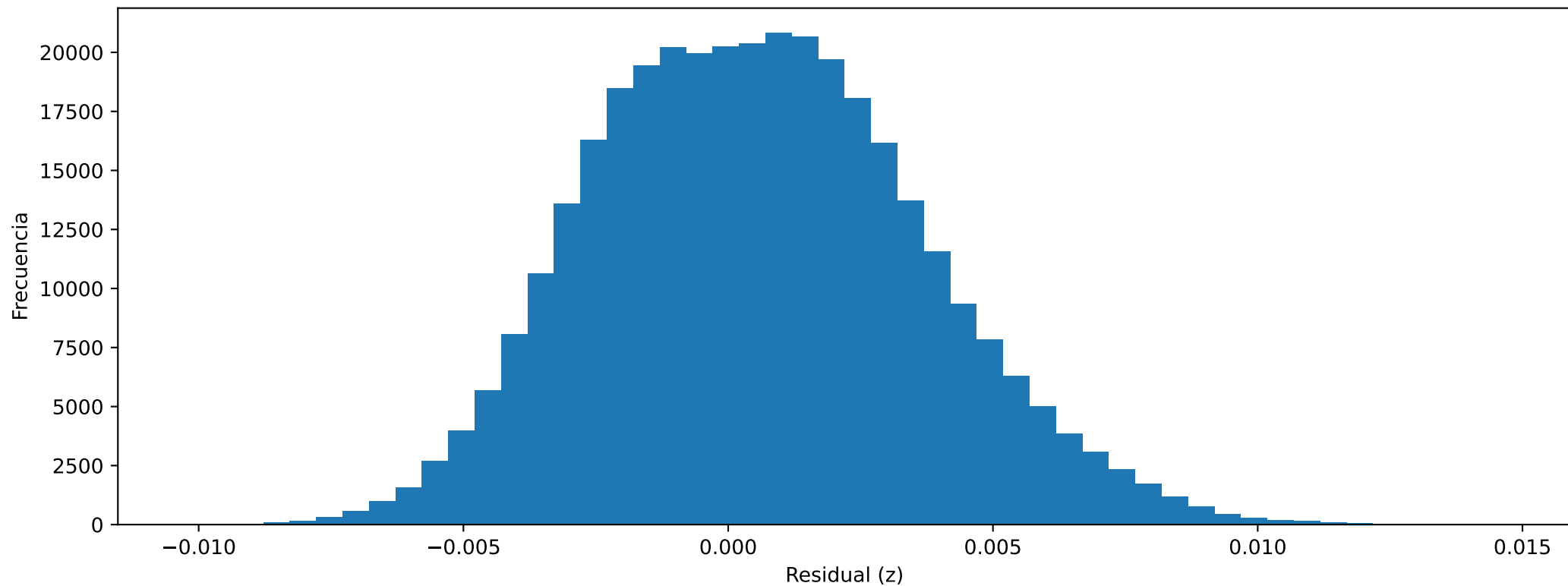
Error por paso del horizonte (test, z-score)



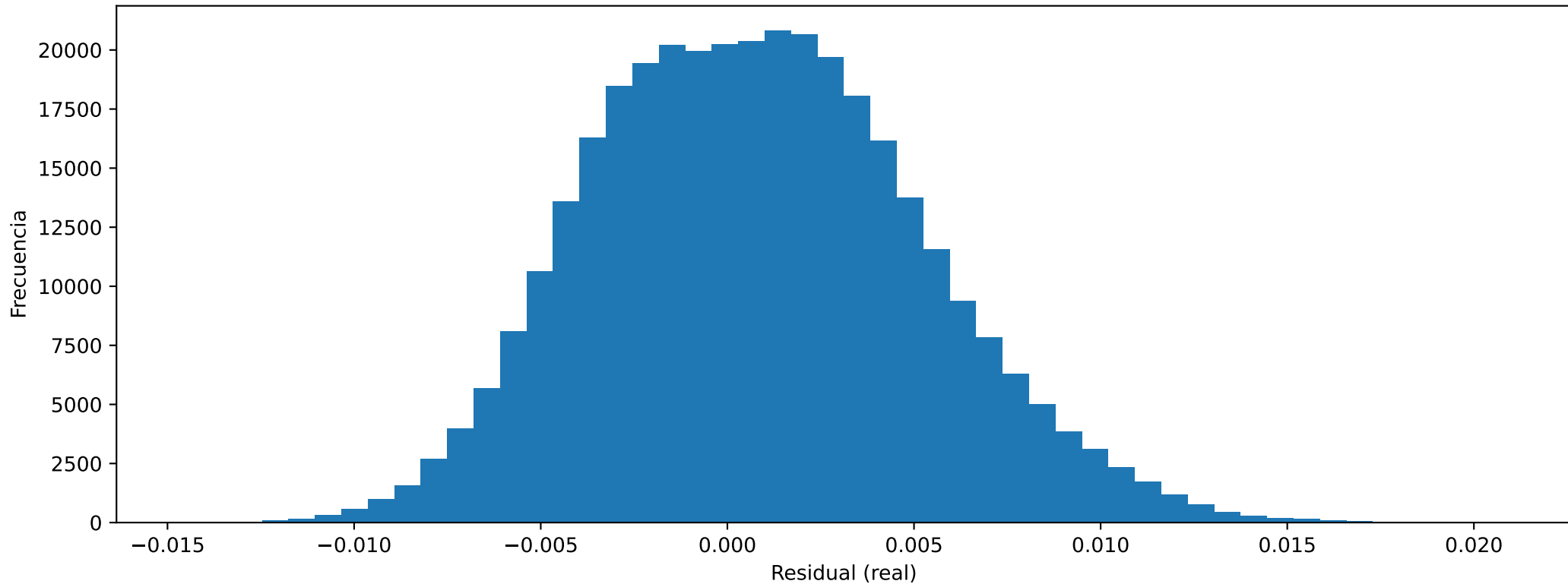
Error por paso del horizonte (test, escala real)



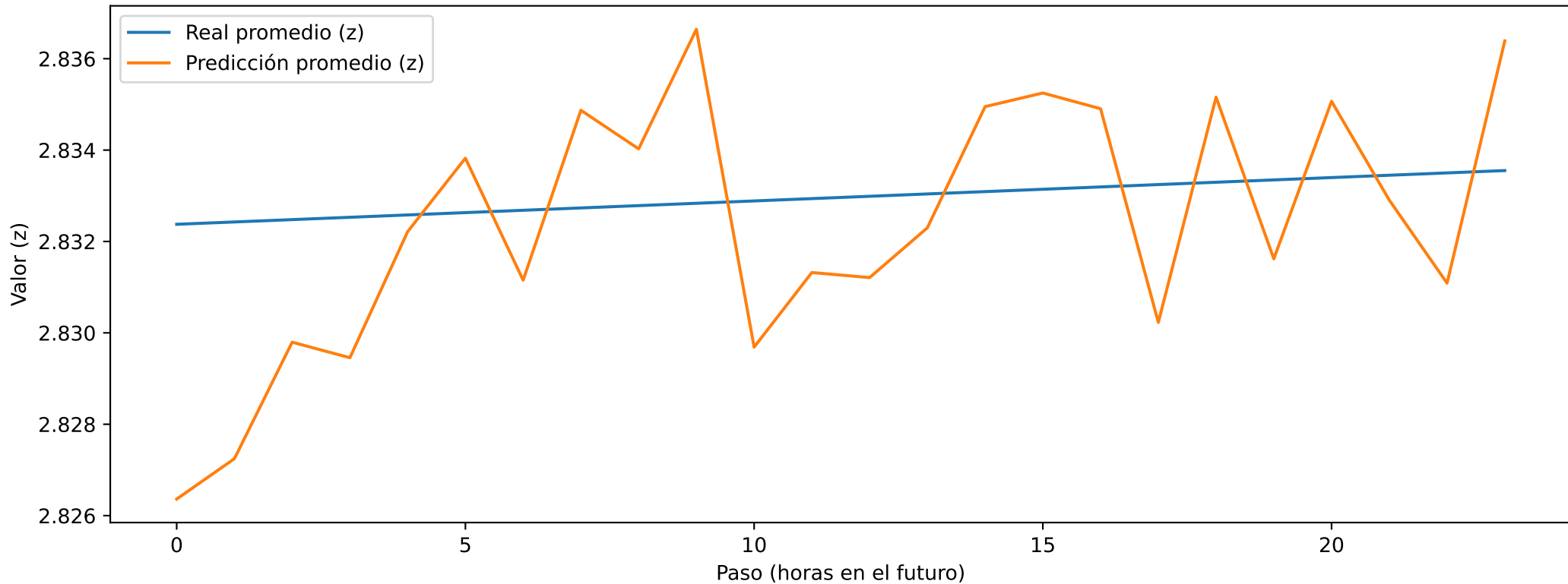
Distribución de residuales (test, z-score)



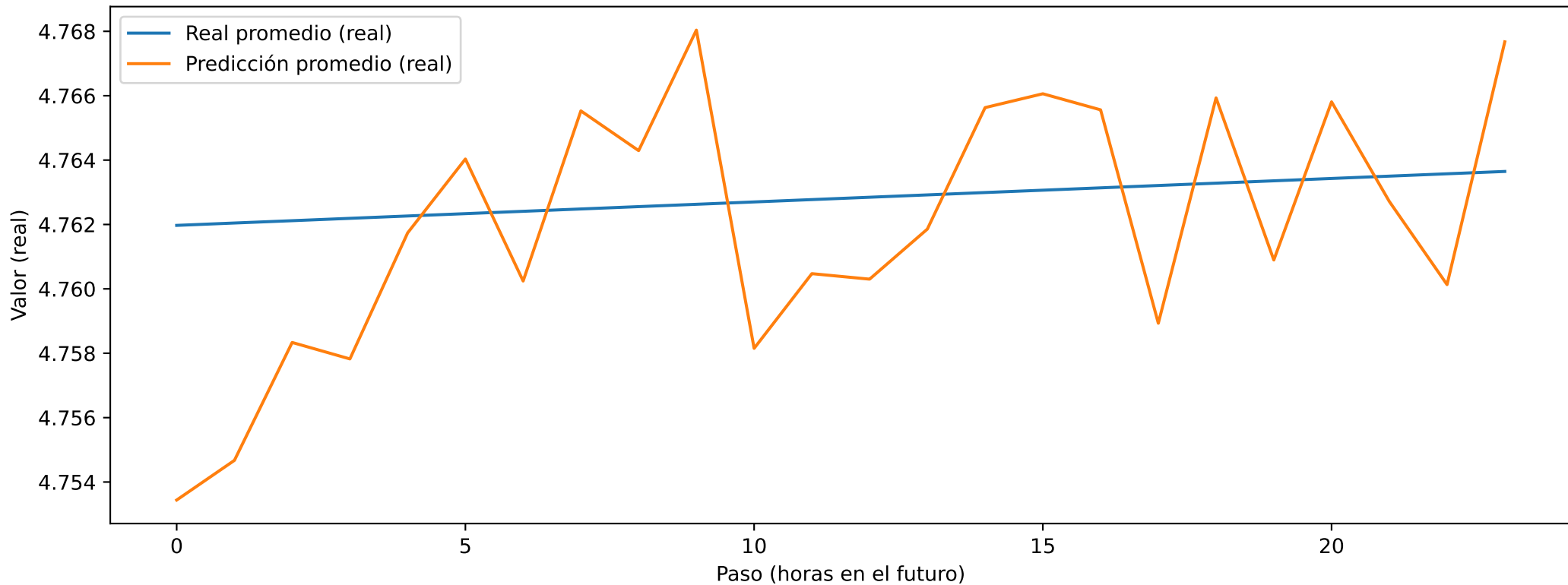
Distribución de residuales (test, real)



Promedio por paso del horizonte (test, z-score)



Promedio por paso del horizonte (test, real)

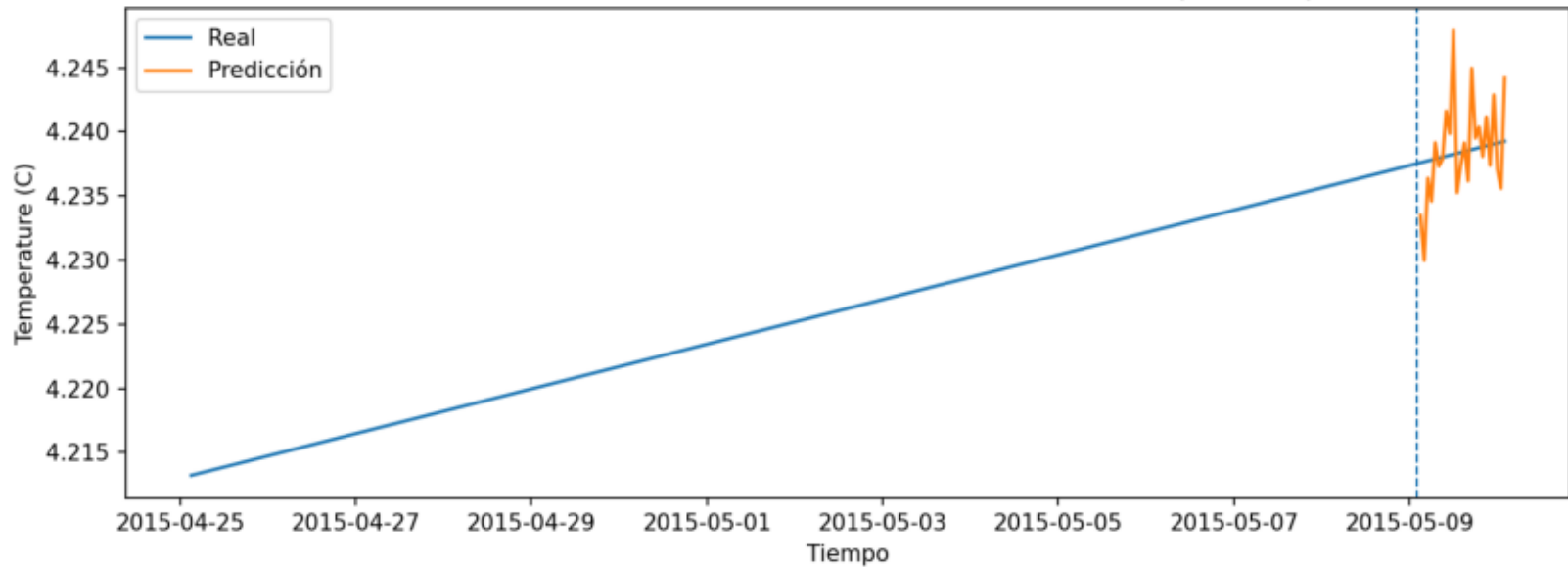


Importancia de variables (TOP-K)

	Δ MSE	Δ MSE %
Temperature (C)_normalized	0.092095	2685193.3683
Cloudy_Partially Cloudy	7e-06	195.475941
Cloudy_Overcast	5e-06	152.757488
Cloudy_Clear	4e-06	127.615898
Cloudy_Mostly Cloudy	4e-06	106.576601
Cloudy_Foggy	3e-06	77.666304
	1e-06	17.760185
	1e-06	17.738435
cos	0.0	10.405438
sin	0.0	10.310423
Type_normalized	0.0	3.779184
cos	0.0	1.716028
bearing_cos	0.0	0.76513
sin	0.0	0.230936
bearing_sin	0.0	0.079777

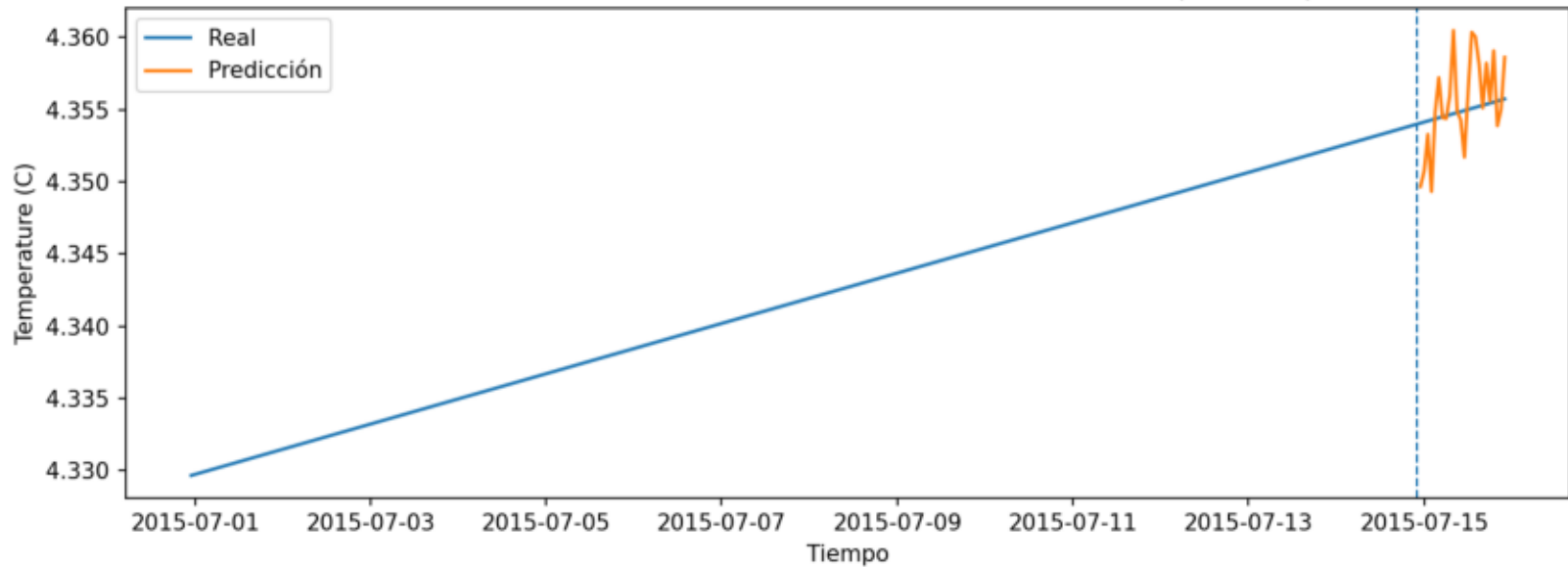
The graph illustrates the temperature trend over time, comparing actual data with a prediction. The x-axis represents time from April 25, 2015, to May 9, 2015. The y-axis represents temperature in degrees Celsius, ranging from 4.215 to 4.245. The 'Real' data (blue line) shows a steady increase from approximately 4.213°C on 2015-04-25 to 4.238°C on 2015-05-09. The 'Predicción' data (orange line) starts on 2015-05-09 and shows high volatility, fluctuating between 4.230°C and 4.248°C.

Tiempo	Real (C)	Predicción (C)
2015-04-25	4.213	
2015-04-27	4.216	
2015-04-29	4.219	
2015-05-01	4.222	
2015-05-03	4.225	
2015-05-05	4.228	
2015-05-07	4.231	
2015-05-09	4.238	4.230
2015-05-09.5		4.248
2015-05-10		4.235
2015-05-10.5		4.245
2015-05-11		4.238
2015-05-11.5		4.242
2015-05-12		4.235
2015-05-12.5		4.245
2015-05-13		4.238
2015-05-13.5		4.242
2015-05-14		4.235
2015-05-14.5		4.245
2015-05-15		4.238

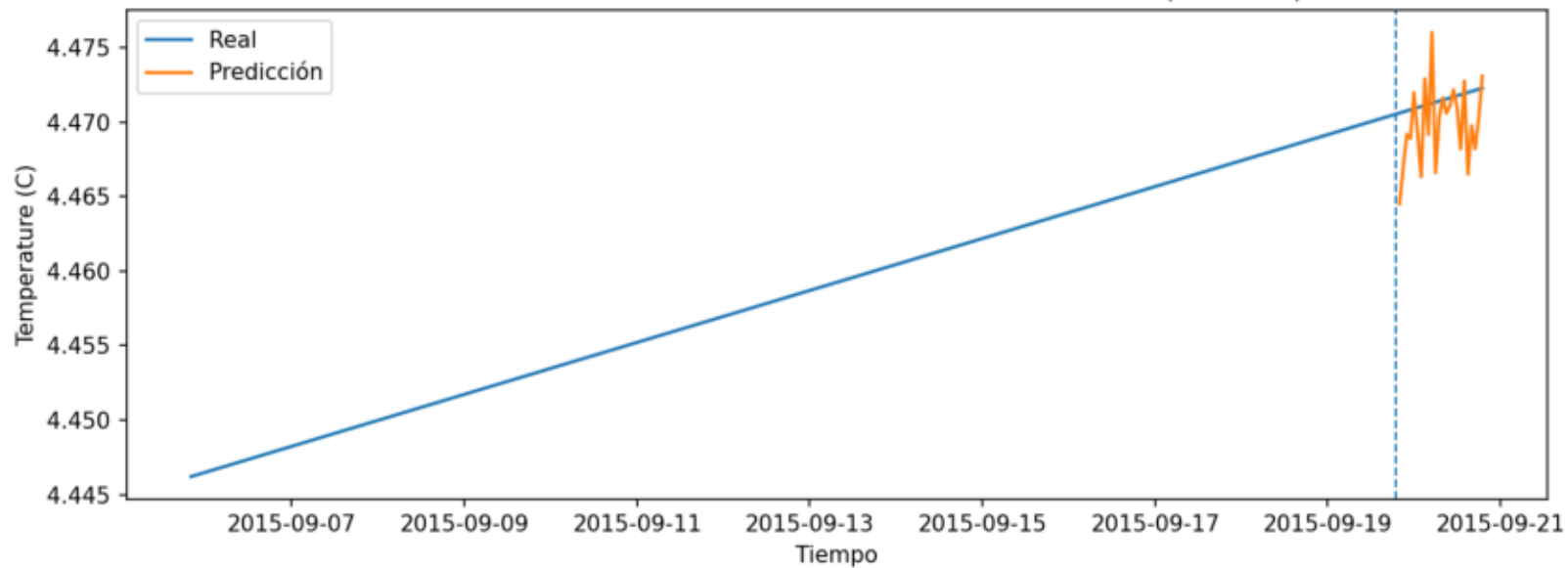


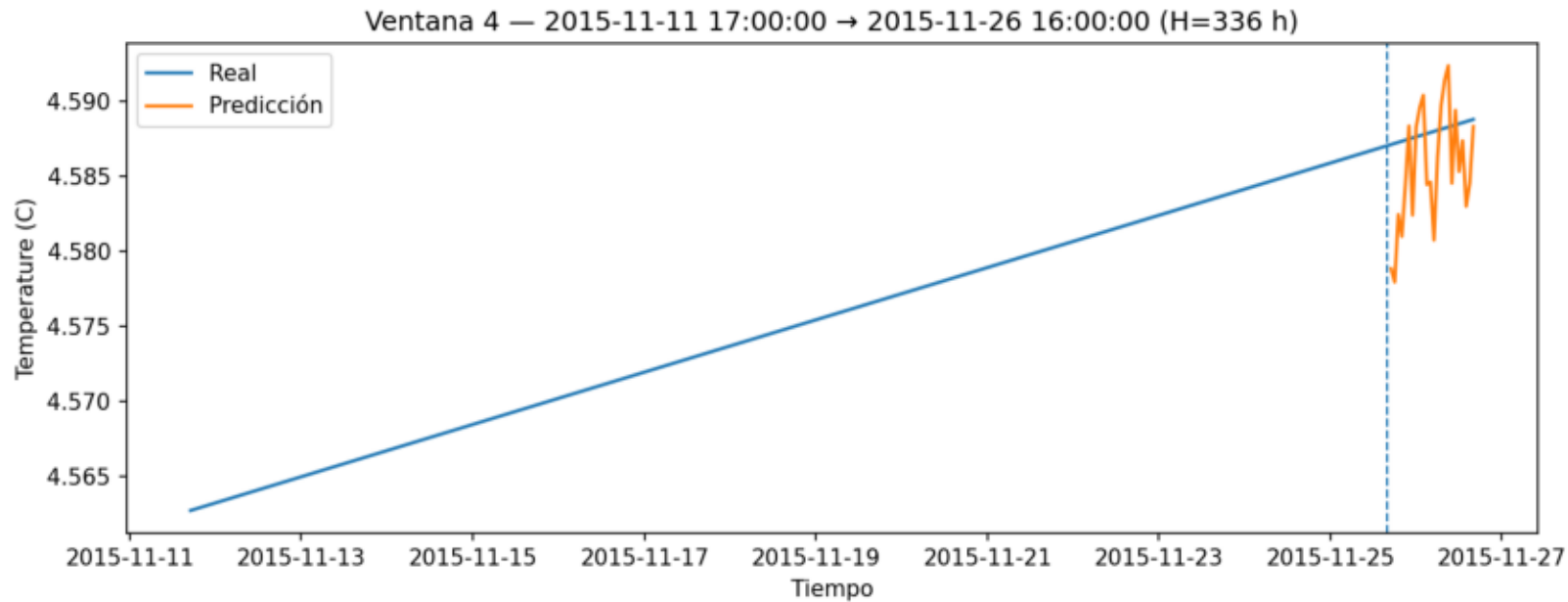
The graph illustrates the temperature trend over time. The 'Real' data (blue line) shows a steady increase from 4.330°C on 2015-07-01 to 4.356°C on 2015-07-15. The 'Predicción' data (orange line) starts on 2015-07-15 and shows high-frequency oscillations between 4.354°C and 4.361°C.

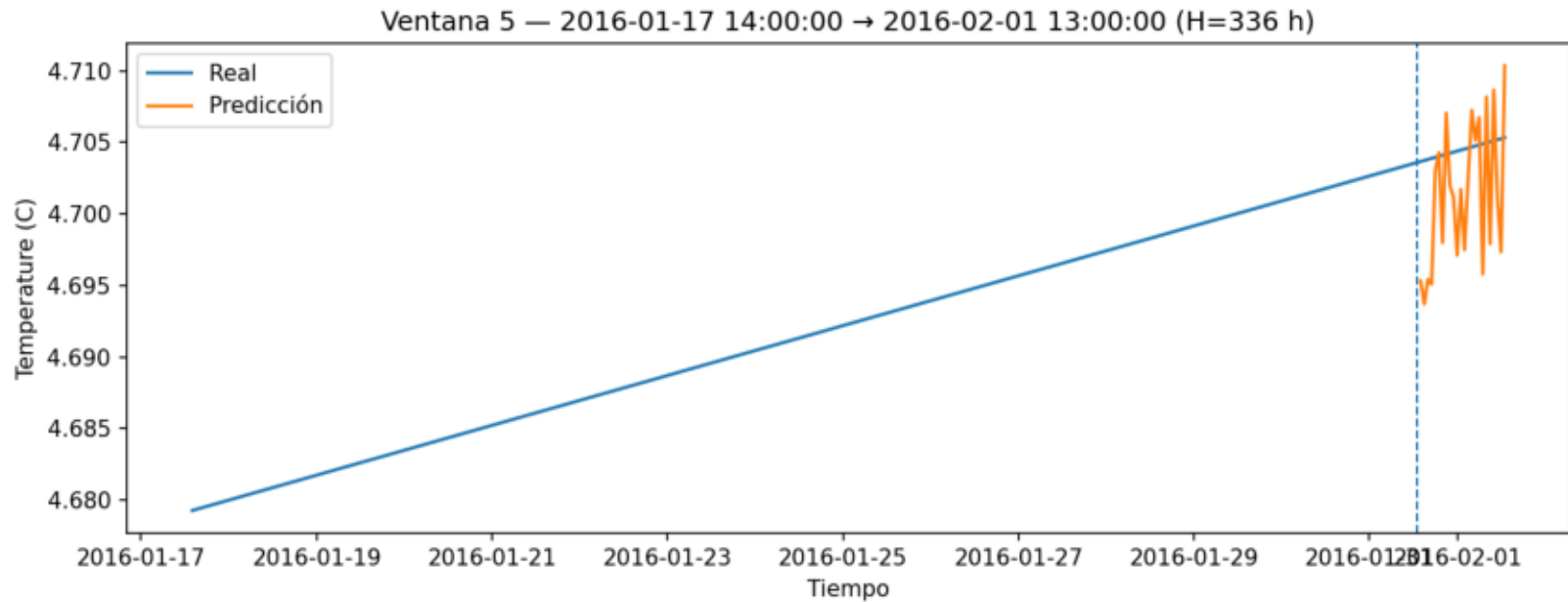
Tiempo	Real (C)	Predicción (C)
2015-07-01	4.330	
2015-07-03	4.333	
2015-07-05	4.337	
2015-07-07	4.340	
2015-07-09	4.343	
2015-07-11	4.347	
2015-07-13	4.350	
2015-07-15	4.354	4.354
2015-07-15.5		4.358
2015-07-16		4.354
2015-07-16.5		4.358
2015-07-17		4.354
2015-07-17.5		4.358
2015-07-18		4.354
2015-07-18.5		4.358
2015-07-19		4.354
2015-07-19.5		4.358
2015-07-20		4.354
2015-07-20.5		4.358
2015-07-21		4.354
2015-07-21.5		4.358
2015-07-22		4.354
2015-07-22.5		4.358
2015-07-23		4.354
2015-07-23.5		4.358
2015-07-24		4.354
2015-07-24.5		4.358
2015-07-25		4.354
2015-07-25.5		4.358
2015-07-26		4.354
2015-07-26.5		4.358
2015-07-27		4.354
2015-07-27.5		4.358
2015-07-28		4.354
2015-07-28.5		4.358
2015-07-29		4.354
2015-07-29.5		4.358
2015-07-30		4.354
2015-07-30.5		4.358
2015-07-31		4.354

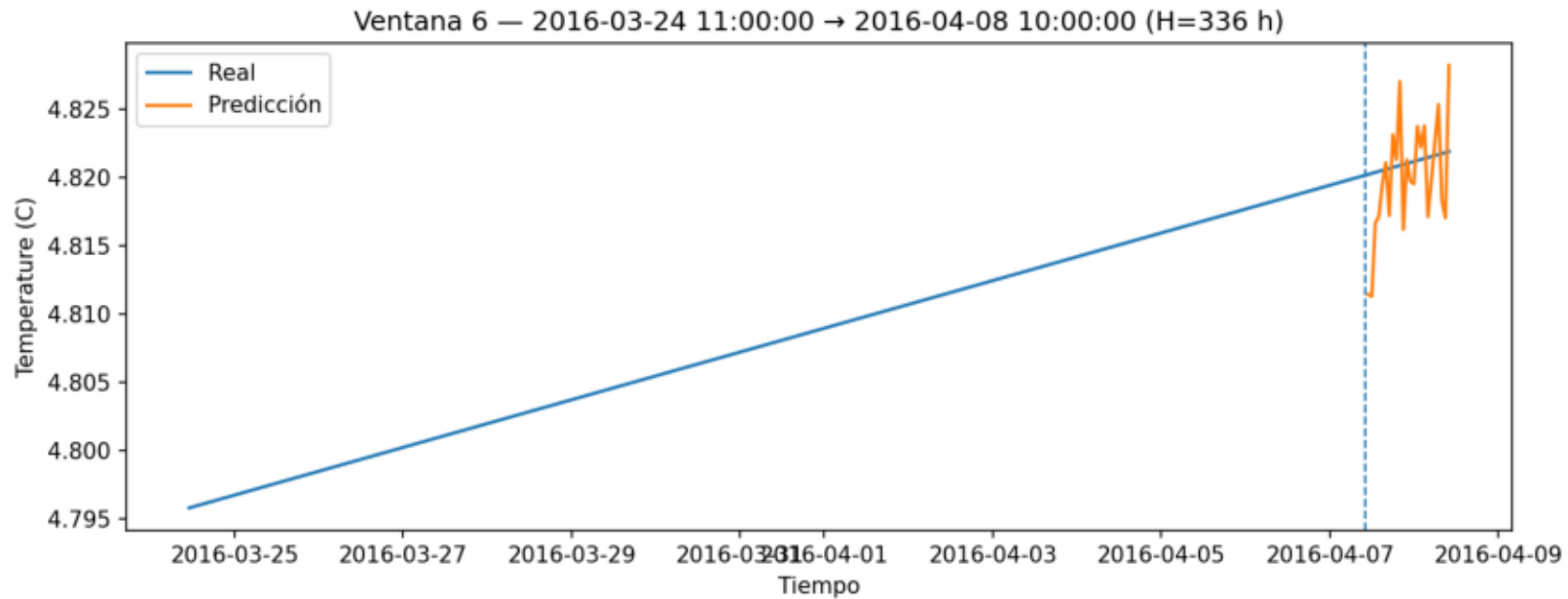


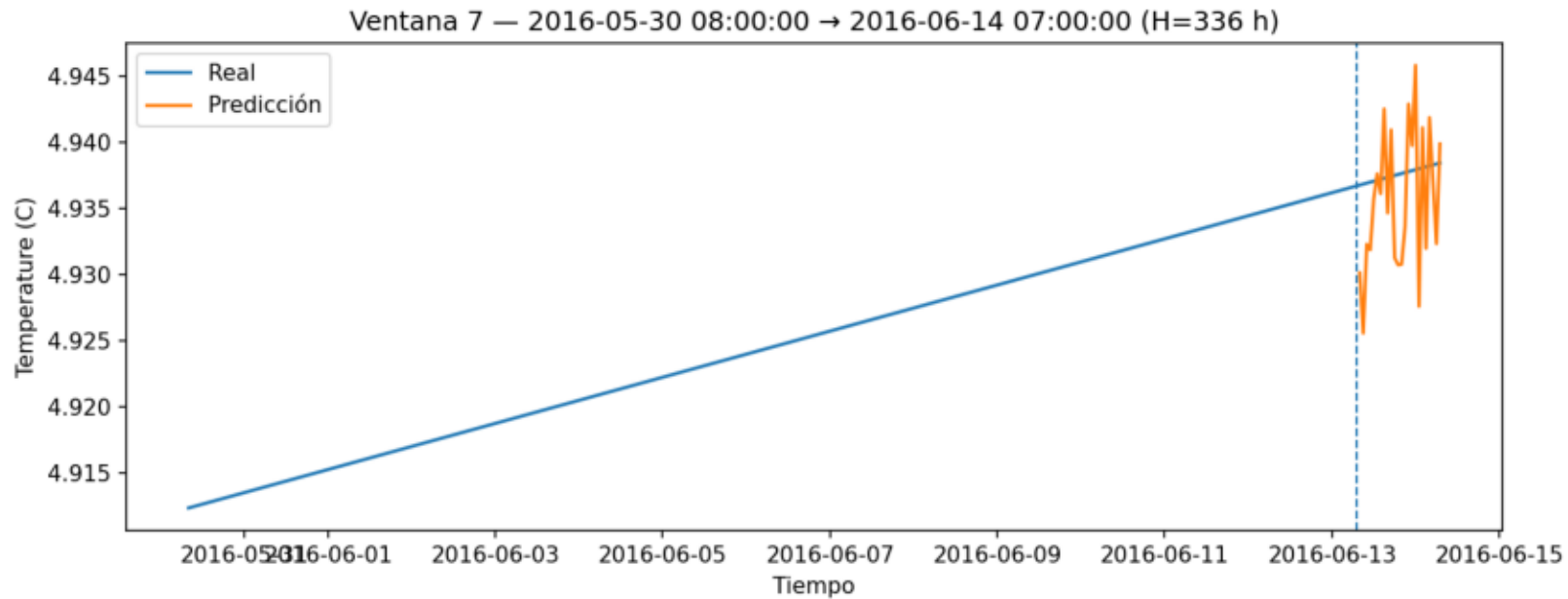
Ventana 3 — 2015-09-05 20:00:00 → 2015-09-20 19:00:00 (H=336 h)

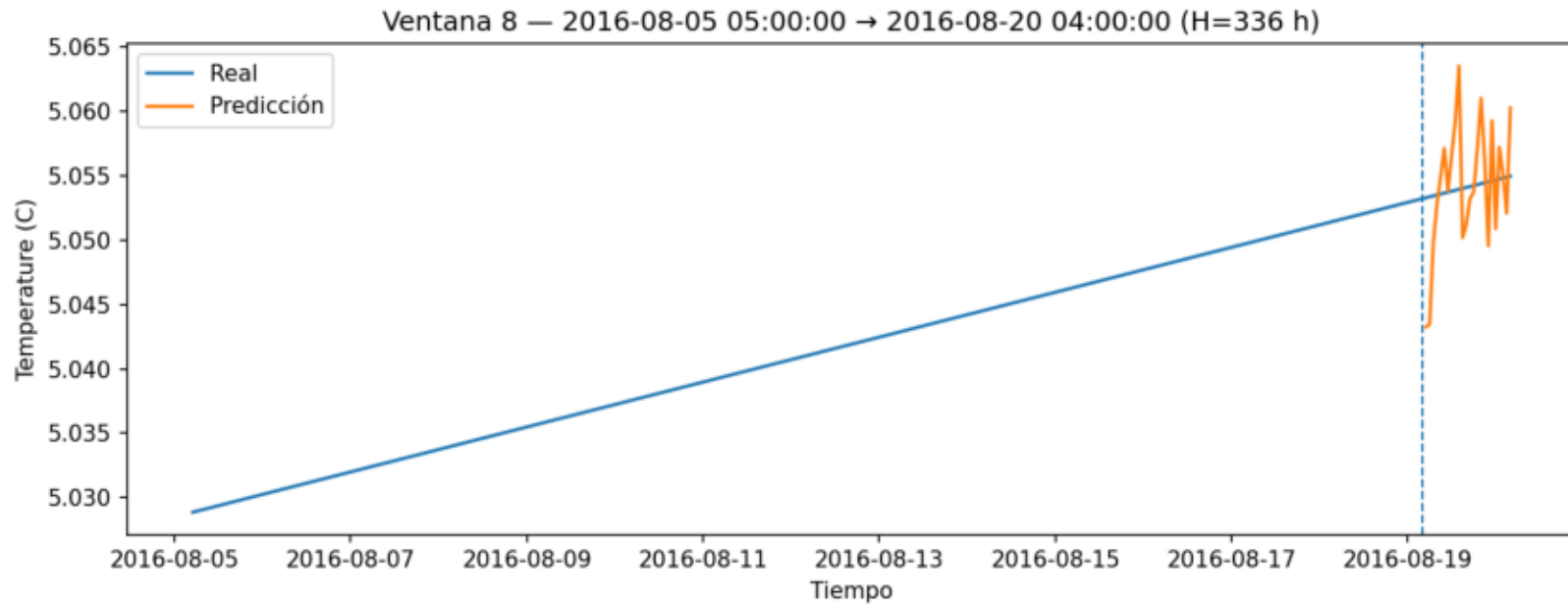


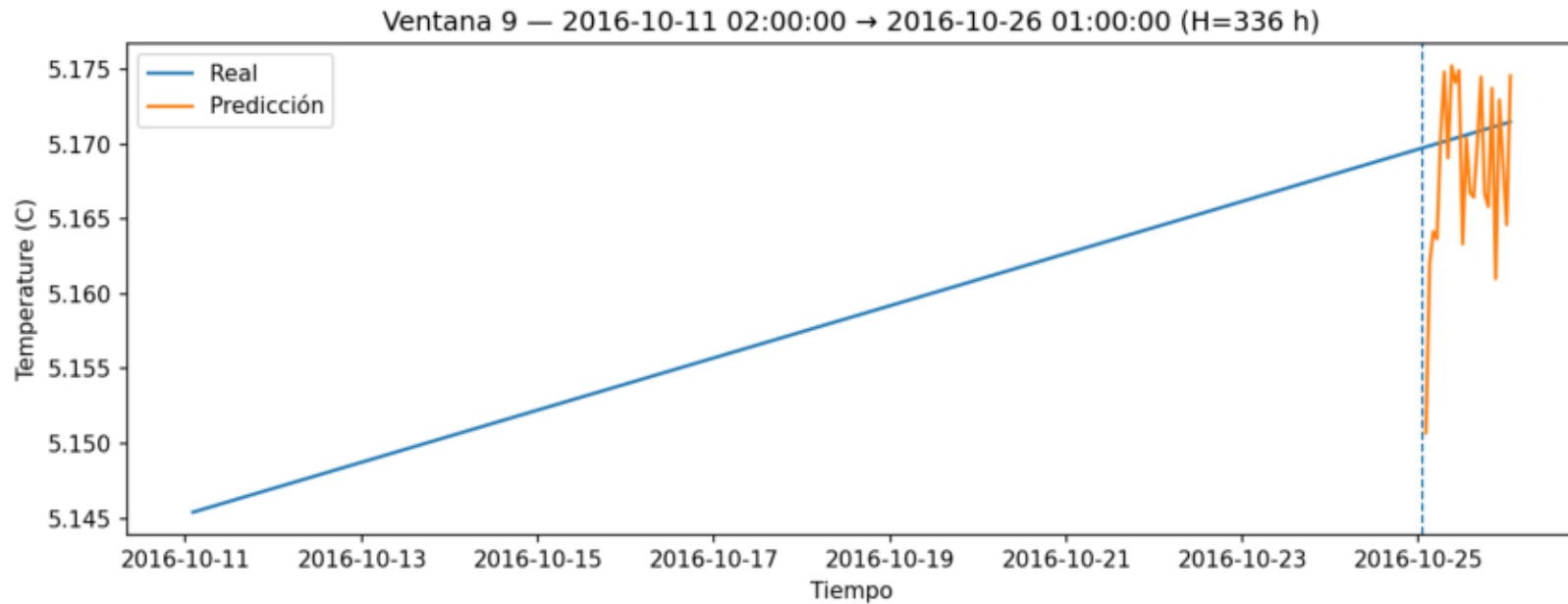


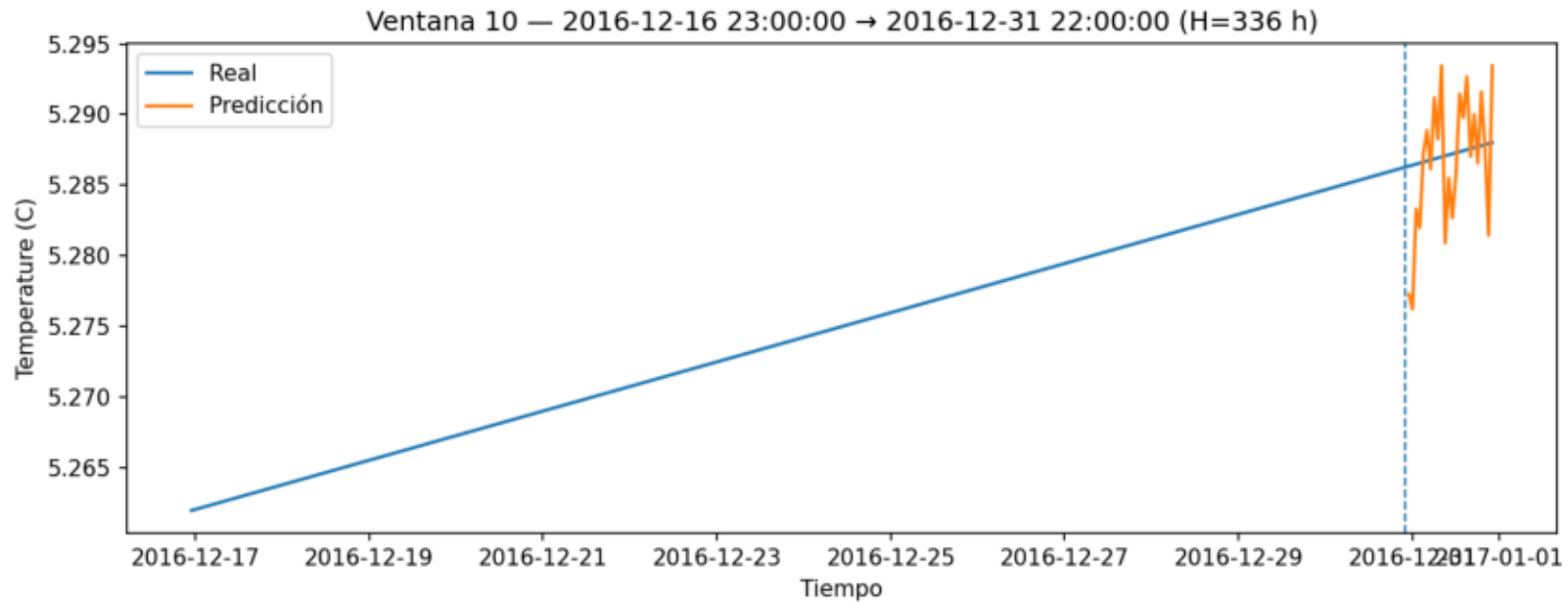












Importancia de variables (validación, permutación)

