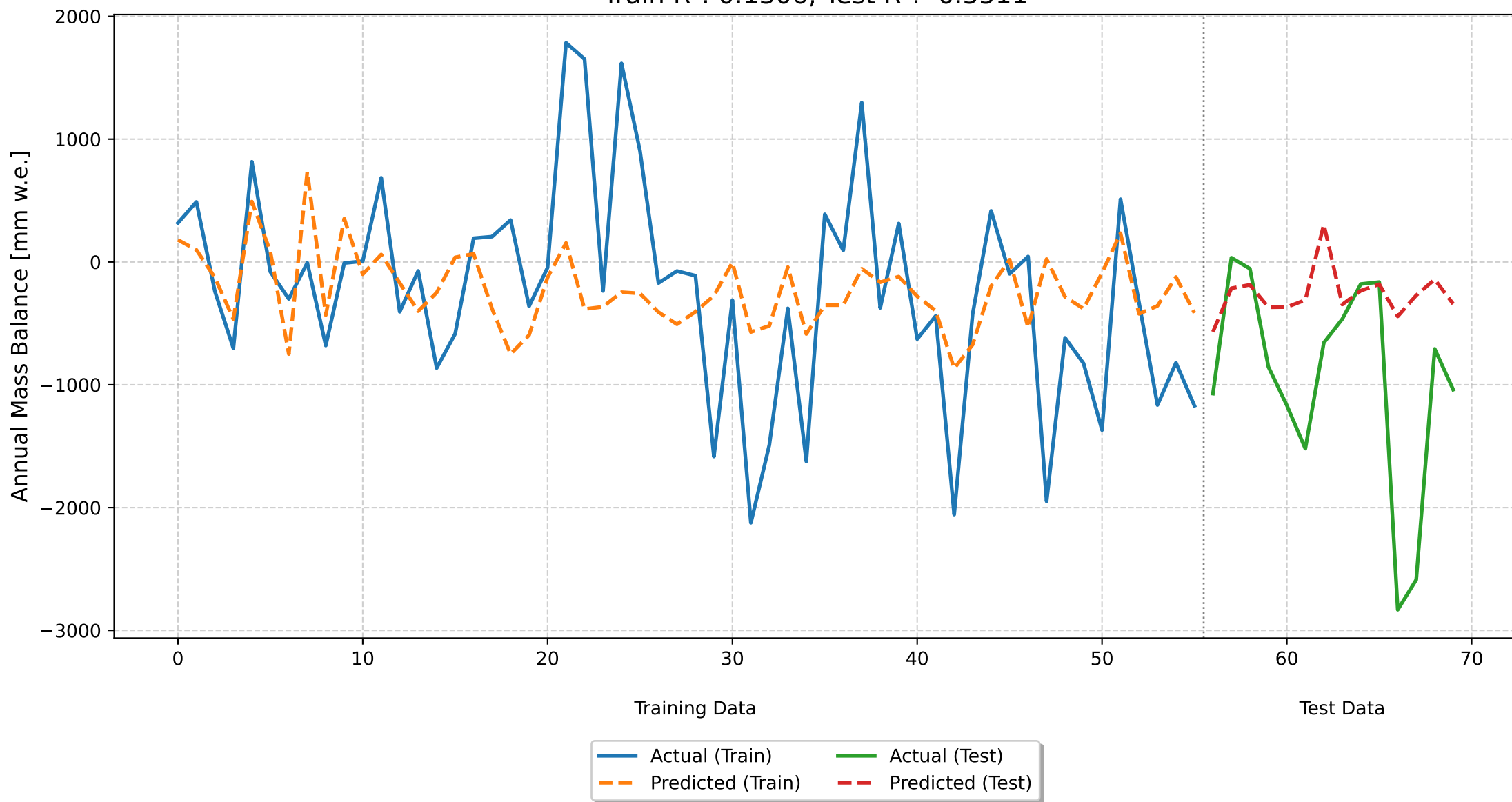


## Glacier Mass Balance Model Results: Hohlaubgletscher

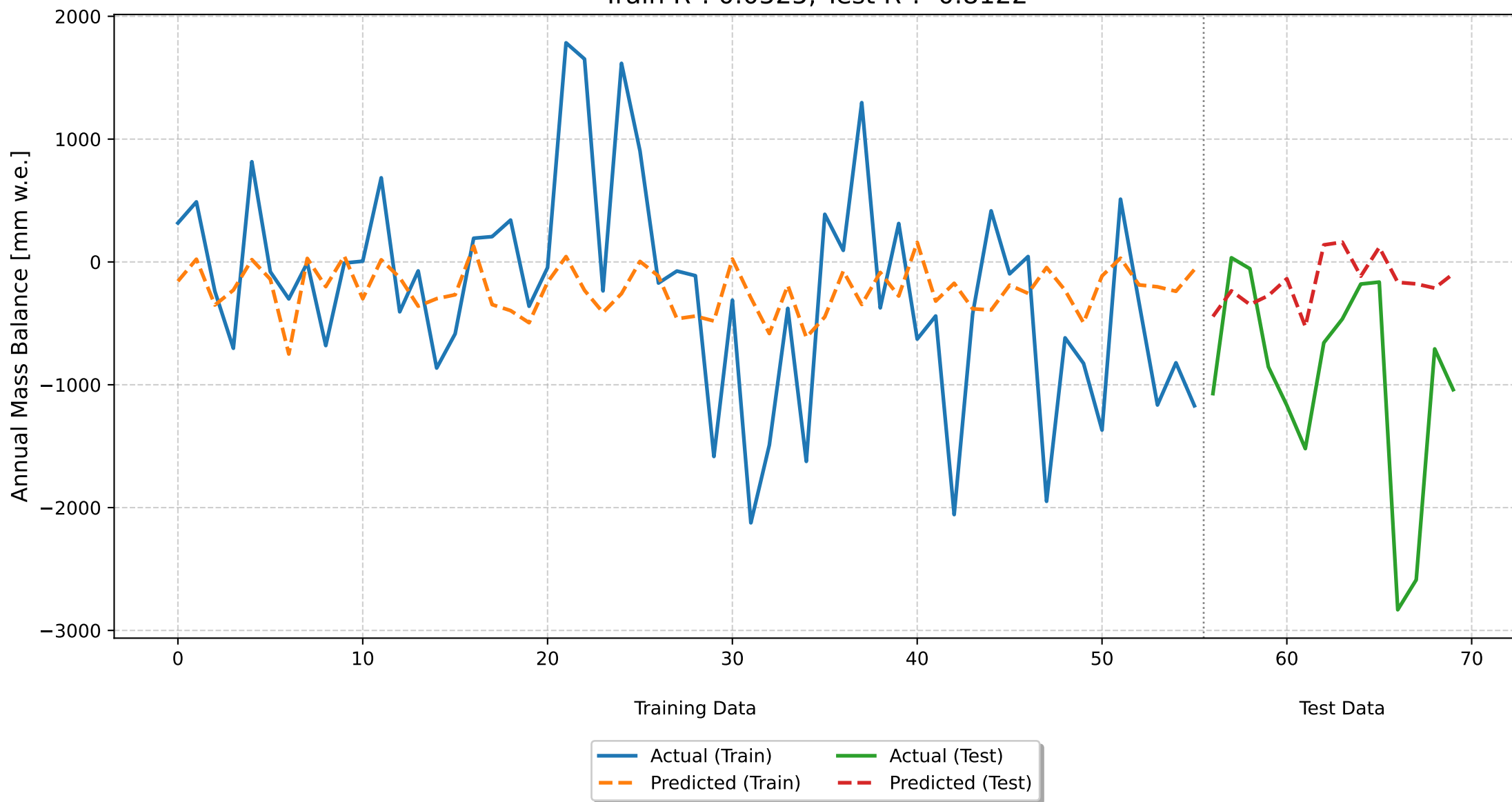
Monthly Deviations Model  
Time Series 80-20 Split  
CV RMSE: 1217.45 ( $\pm 314.79$ )  
Train RMSE: 794.40, Test RMSE: 1051.97  
Train  $R^2$ : 0.1306, Test  $R^2$ : -0.5511



## Monthly Deviations Model - Performance Metrics and Coefficients

Metric	Value
Cross-Validation RMSE	1217.45 ( $\pm 314.79$ )
Training RMSE	794.40
Training R <sup>2</sup>	0.1306
Test RMSE	1051.97
Test R <sup>2</sup>	-0.5511
Feature	Coefficient
may_td	6.3643
june_td	50.9000
july_td	-92.7354
august_td	53.1215
september_td	-144.5698
october_pd	-5.3844
november_pd	35.6698
december_pd	193.0764
january_pd	7.6782
february_pd	-70.2096
march_pd	2.7541
april_pd	159.4791
Intercept	-225.9821

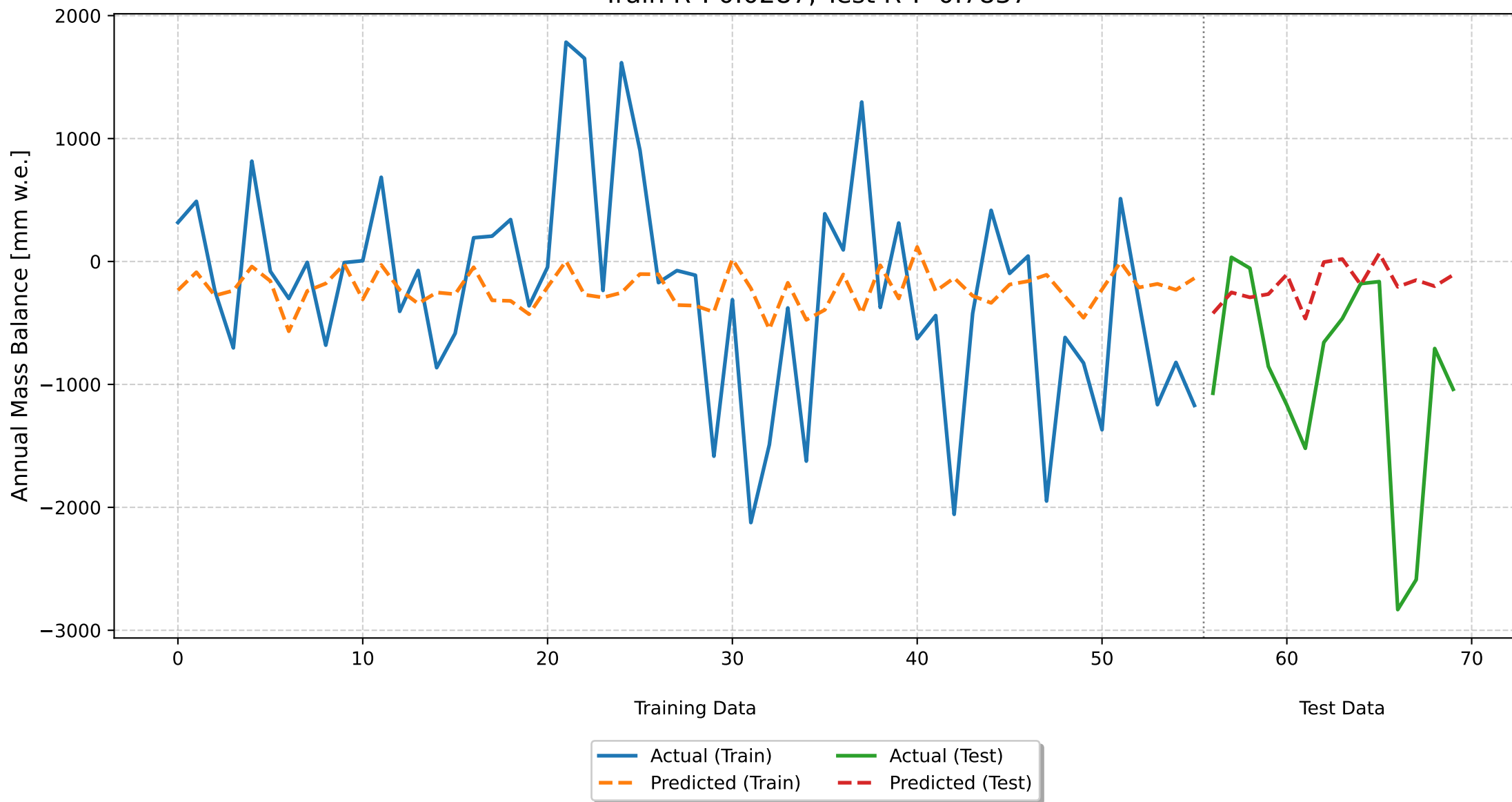
Seasonal Deviations Model  
Time Series 80-20 Split  
CV RMSE: 1035.99 ( $\pm 176.16$ )  
Train RMSE: 829.35, Test RMSE: 1137.06  
Train  $R^2$ : 0.0525, Test  $R^2$ : -0.8122



## Seasonal Deviations Model - Performance Metrics and Coefficients

Metric	Value
Cross-Validation RMSE	1035.99 ( $\pm 176.16$ )
Training RMSE	829.35
Training R <sup>2</sup>	0.0525
Test RMSE	1137.06
Test R <sup>2</sup>	-0.8122
Feature	Coefficient
summer_temp_dev	-97.4297
winter_precip_dev	154.0672
Intercept	-225.9821

Optimal Seasonal Deviations Model  
Time Series 80-20 Split  
CV RMSE: 1054.37 ( $\pm 194.52$ )  
Train RMSE: 839.69, Test RMSE: 1128.11  
Train  $R^2$ : 0.0287, Test  $R^2$ : -0.7837



## Optimal Seasonal Deviations Model - Performance Metrics and Coefficients

Metric	Value
Cross-Validation RMSE	1054.37 ( $\pm 194.52$ )
Training RMSE	839.69
Training R <sup>2</sup>	0.0287
Test RMSE	1128.11
Test R <sup>2</sup>	-0.7837
Feature	Coefficient
optimal_summer_temp_dev	-70.4155
optimal_winter_precip_dev	117.3592
Intercept	-225.9821