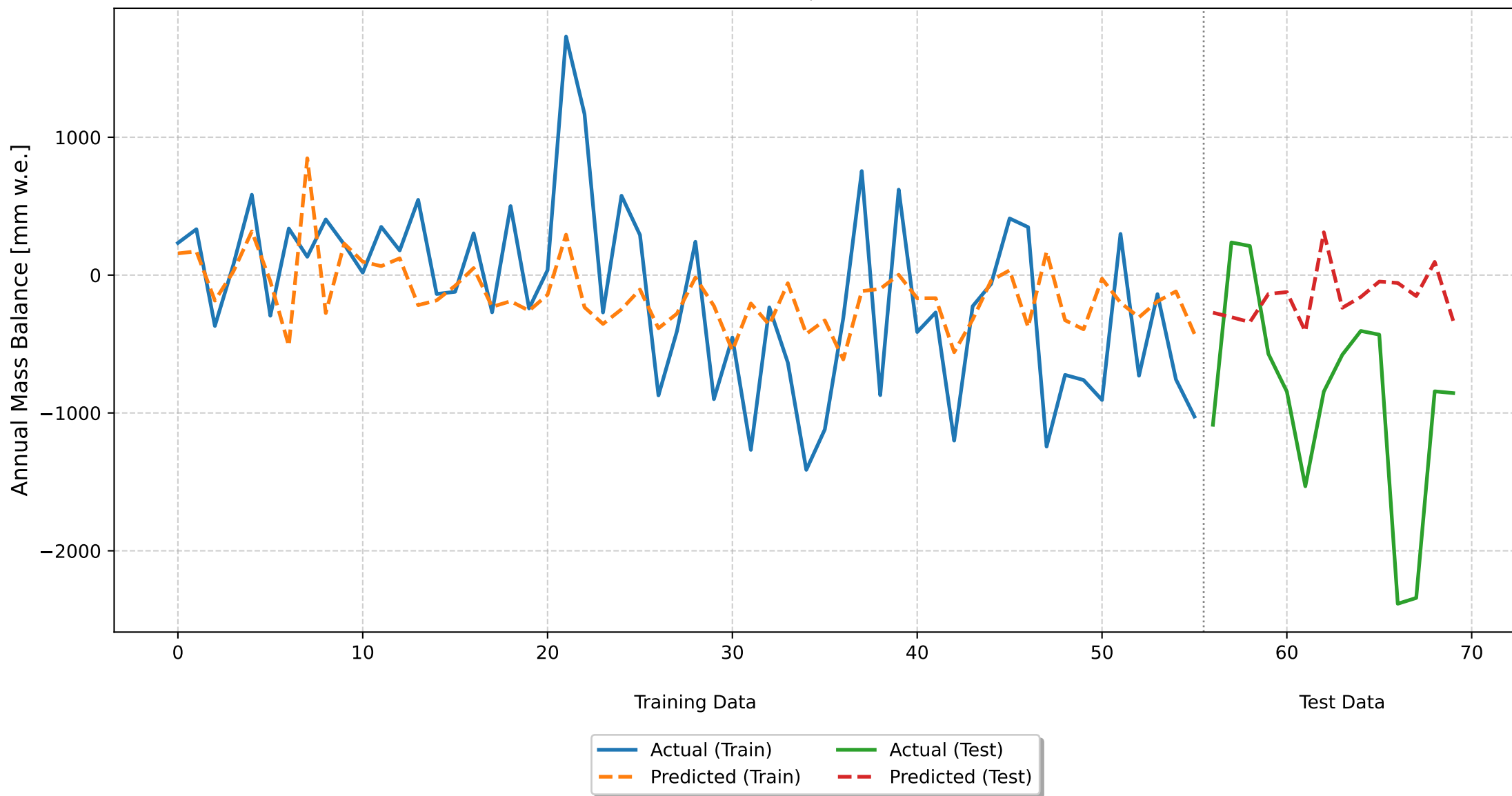


## Glacier Mass Balance Model Results: Allalingletscher

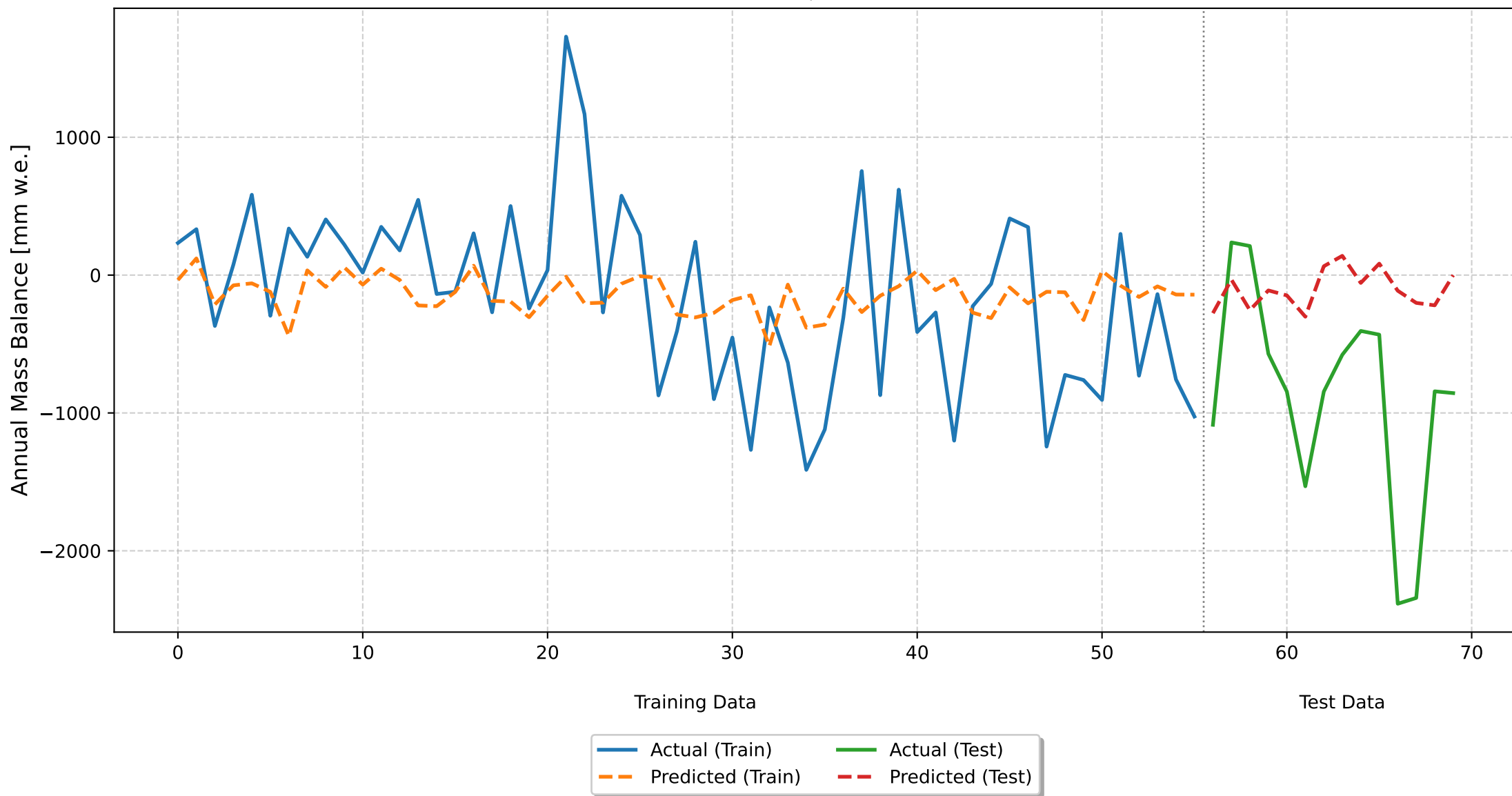
Monthly Deviations Model  
Time Series 80-20 Split  
CV RMSE: 992.94 ( $\pm 141.42$ )  
Train RMSE: 584.56, Test RMSE: 1077.65  
Train  $R^2$ : 0.1553, Test  $R^2$ : -1.0523



## Monthly Deviations Model - Performance Metrics and Coefficients

Metric	Value
Cross-Validation RMSE	992.94 ( $\pm 141.42$ )
Training RMSE	584.56
Training R <sup>2</sup>	0.1553
Test RMSE	1077.65
Test R <sup>2</sup>	-1.0523
Feature	Coefficient
may_td	43.7100
june_td	-35.1989
july_td	-67.0655
august_td	72.0017
september_td	-116.5208
october_pd	70.5365
november_pd	-85.7716
december_pd	102.3069
january_pd	30.7599
february_pd	-31.4612
march_pd	-2.6199
april_pd	144.7796
Intercept	-142.0893

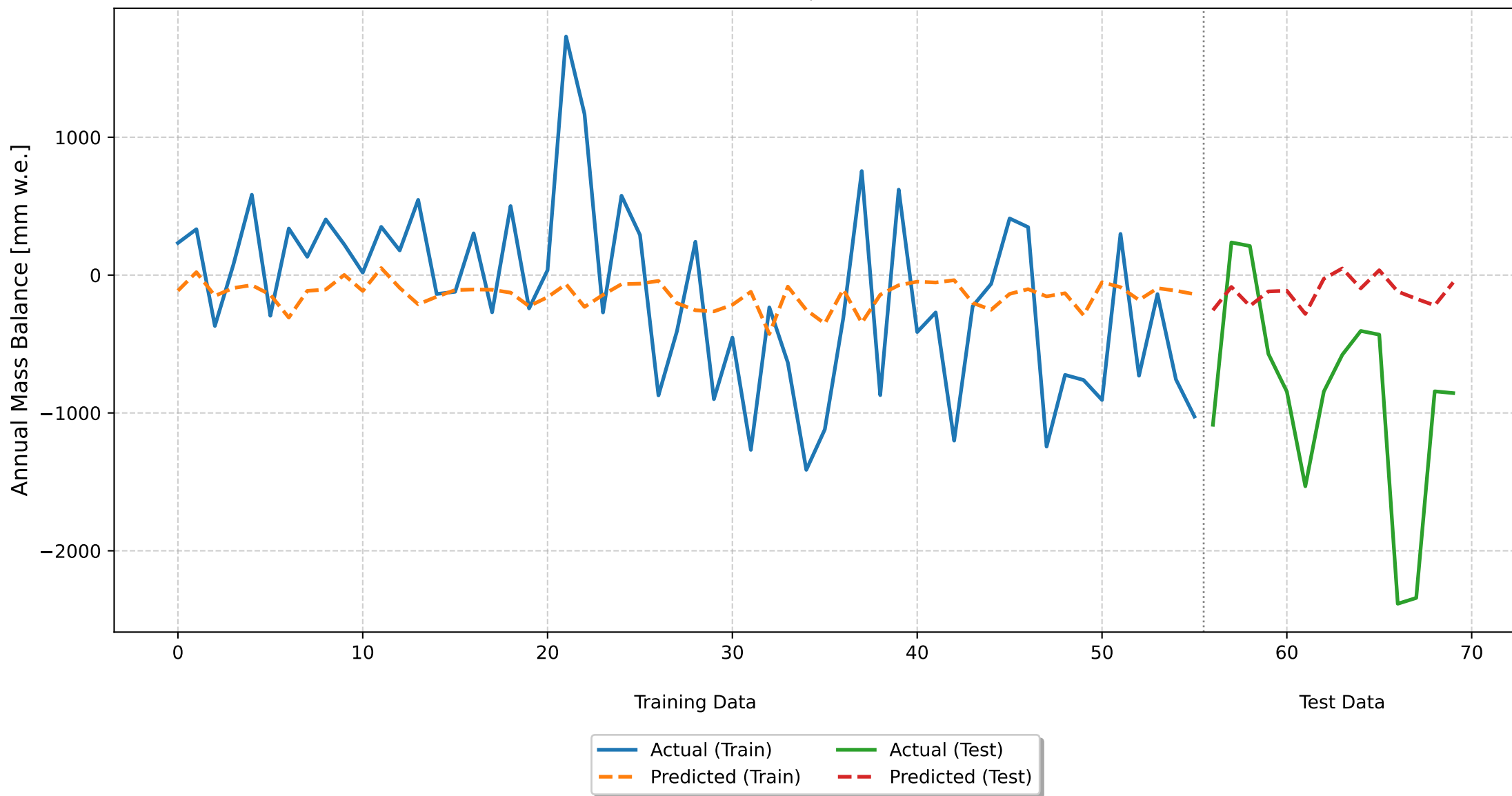
Seasonal Deviations Model  
Time Series 80-20 Split  
CV RMSE: 847.16 ( $\pm 209.41$ )  
Train RMSE: 622.23, Test RMSE: 1060.44  
Train  $R^2$ : 0.0430, Test  $R^2$ : -0.9873



## Seasonal Deviations Model - Performance Metrics and Coefficients

Metric	Value
Cross-Validation RMSE	847.16 ( $\pm 209.41$ )
Training RMSE	622.23
Training R <sup>2</sup>	0.0430
Test RMSE	1060.44
Test R <sup>2</sup>	-0.9873
Feature	Coefficient
summer_temp_dev	-115.0097
winter_precip_dev	48.4992
Intercept	-142.0893

Optimal Seasonal Deviations Model  
Time Series 80-20 Split  
CV RMSE: 876.94 ( $\pm 226.99$ )  
Train RMSE: 629.18, Test RMSE: 1053.45  
Train  $R^2$ : 0.0215, Test  $R^2$ : -0.9611



## Optimal Seasonal Deviations Model - Performance Metrics and Coefficients

Metric	Value
Cross-Validation RMSE	876.94 ( $\pm 226.99$ )
Training RMSE	629.18
Training R <sup>2</sup>	0.0215
Test RMSE	1053.45
Test R <sup>2</sup>	-0.9611
Feature	Coefficient
optimal_summer_temp_dev	-89.0790
optimal_winter_precip_dev	18.5393
Intercept	-142.0893