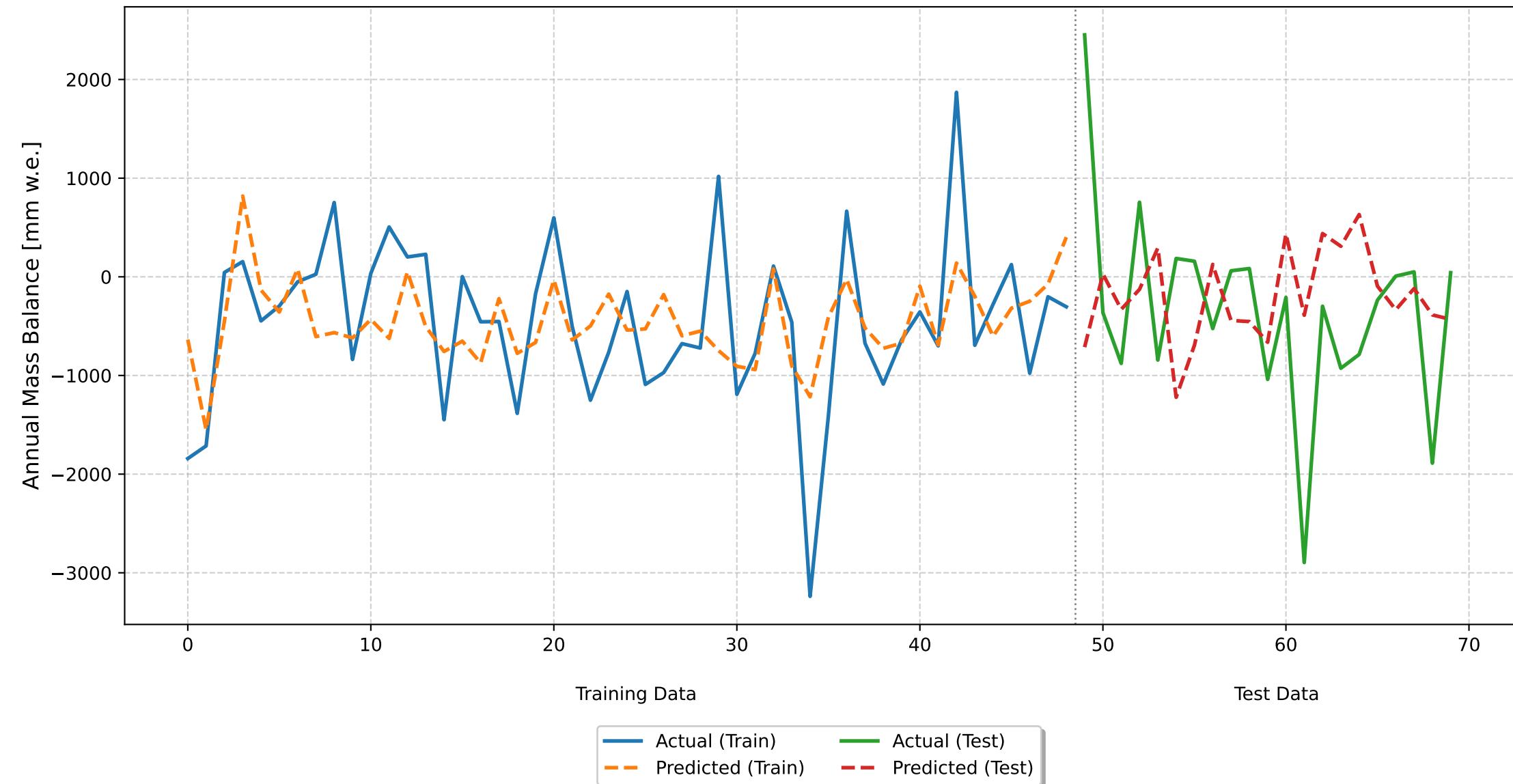


# Glacier Mass Balance Model Results: Schwarzberggletscher

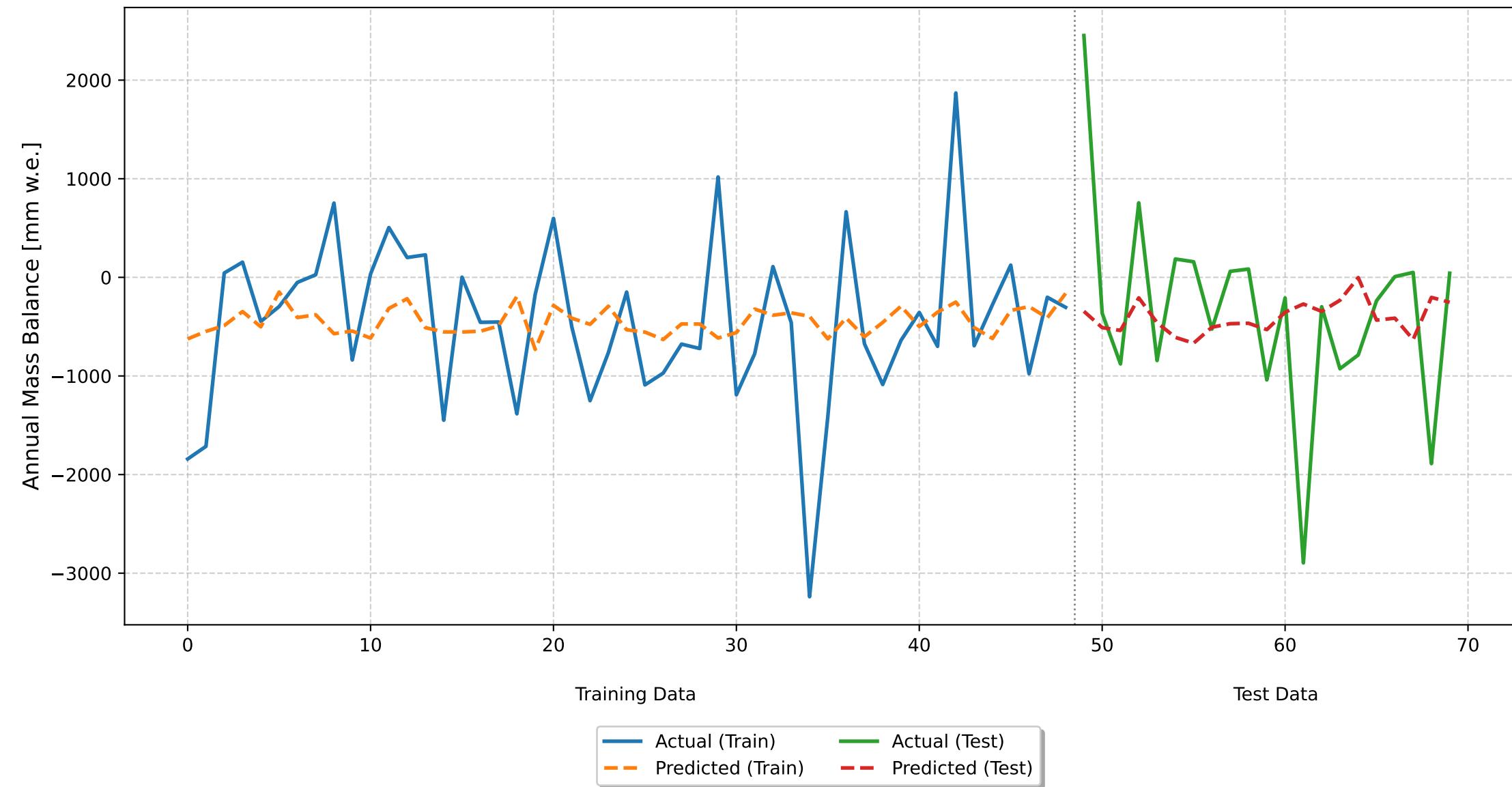
Monthly Deviations Model  
Random 70-30 Split  
CV RMSE: 1009.30 ( $\pm 129.34$ )  
Train RMSE: 707.65, Test RMSE: 1190.85  
Train R<sup>2</sup>: 0.2533, Test R<sup>2</sup>: -0.4280



## Monthly Deviations Model - Performance Metrics and Coefficients

Metric	Value
Cross-Validation RMSE	1009.30 ( $\pm 129.34$ )
Training RMSE	707.65
Training R <sup>2</sup>	0.2533
Test RMSE	1190.85
Test R <sup>2</sup>	-0.4280
Feature	Coefficient
may_td	87.4825
june_td	-34.8289
july_td	51.1534
august_td	-30.1973
september_td	-66.4947
october_pd	-78.3388
november_pd	126.0203
december_pd	200.0725
january_pd	91.7399
february_pd	-127.4852
march_pd	-114.8791
april_pd	225.2182
Intercept	-446.6122

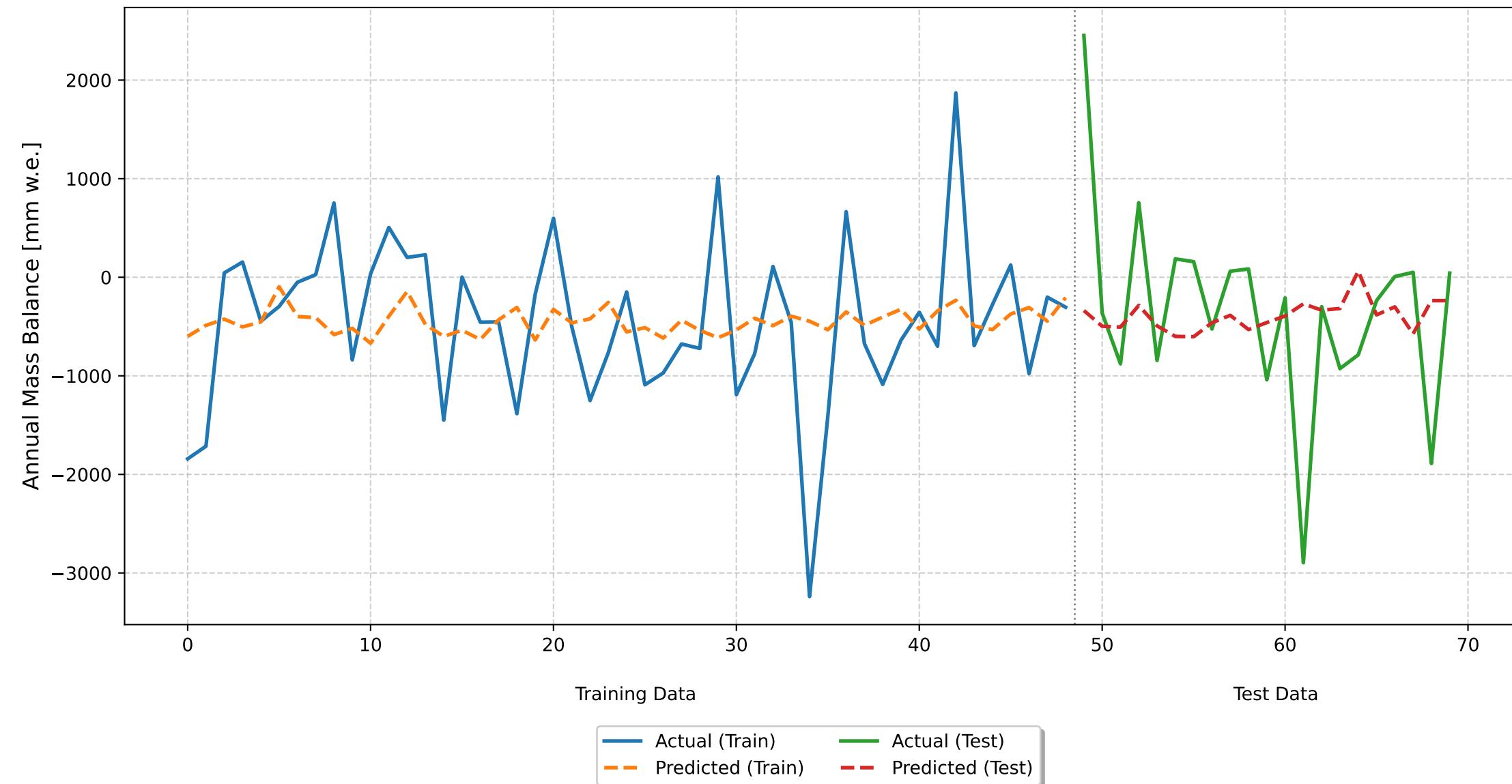
Seasonal Deviations Model  
Random 70-30 Split  
CV RMSE: 889.85 ( $\pm 150.82$ )  
Train RMSE: 806.85, Test RMSE: 1042.23  
Train R<sup>2</sup>: 0.0293, Test R<sup>2</sup>: -0.0938



## Seasonal Deviations Model - Performance Metrics and Coefficients

Metric	Value
Cross-Validation RMSE	889.85 ( $\pm 150.82$ )
Training RMSE	806.85
Training R <sup>2</sup>	0.0293
Test RMSE	1042.23
Test R <sup>2</sup>	-0.0938
Feature	Coefficient
summer_temp_dev	43.9526
winter_precip_dev	144.6691
Intercept	-446.6122

Optimal Seasonal Deviations Model  
Random 70-30 Split  
CV RMSE: 887.34 ( $\pm 154.44$ )  
Train RMSE: 808.62, Test RMSE: 1037.40  
Train R<sup>2</sup>: 0.0251, Test R<sup>2</sup>: -0.0837



## Optimal Seasonal Deviations Model - Performance Metrics and Coefficients

Metric	Value
Cross-Validation RMSE	887.34 ( $\pm 154.44$ )
Training RMSE	808.62
Training R <sup>2</sup>	0.0251
Test RMSE	1037.40
Test R <sup>2</sup>	-0.0837
Feature	Coefficient
optimal_summer_temp_dev	59.9474
optimal_winter_precip_dev	133.3820
Intercept	-446.6122