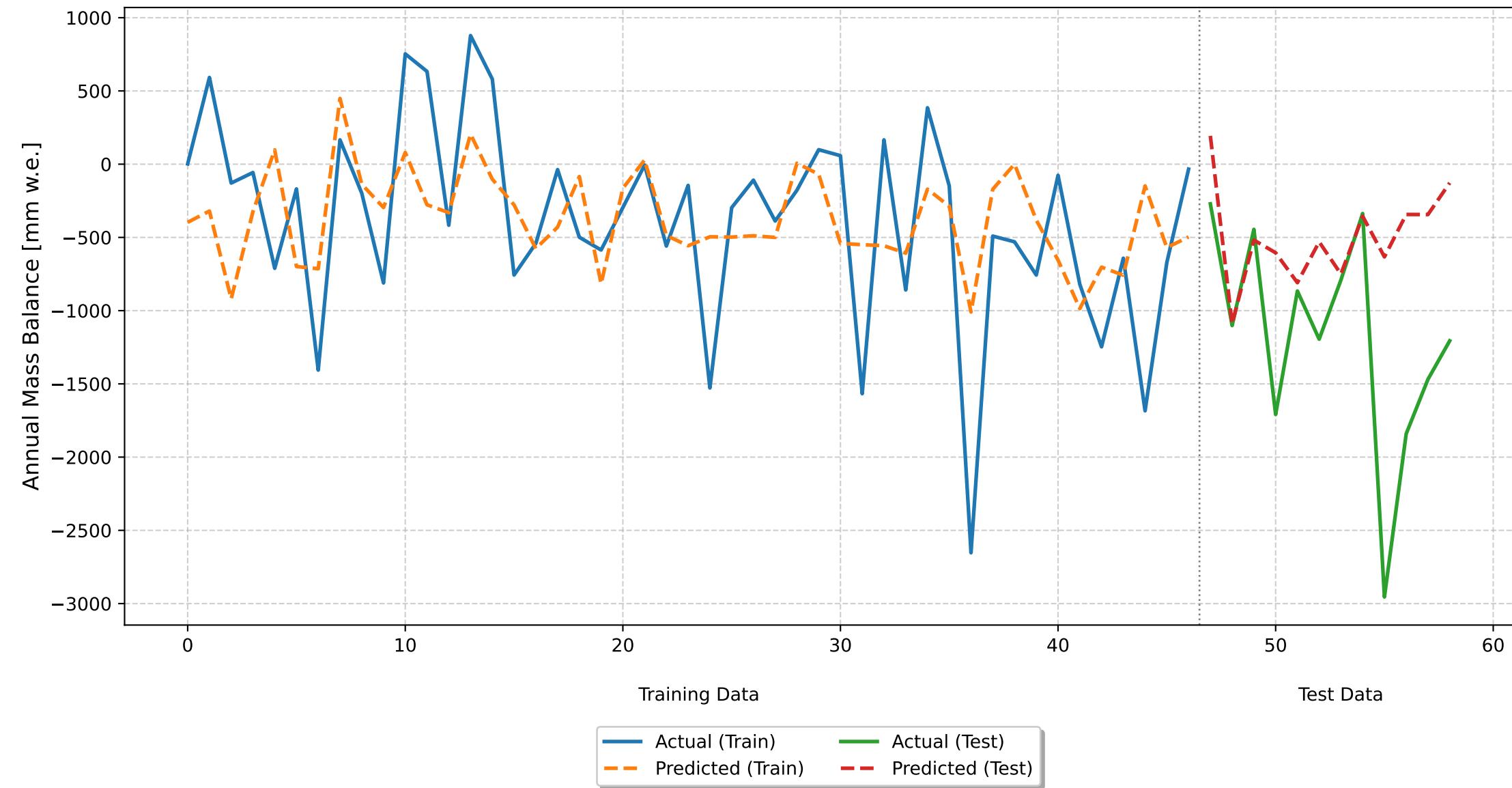


## Glacier Mass Balance Model Results: Glacier du Giétra

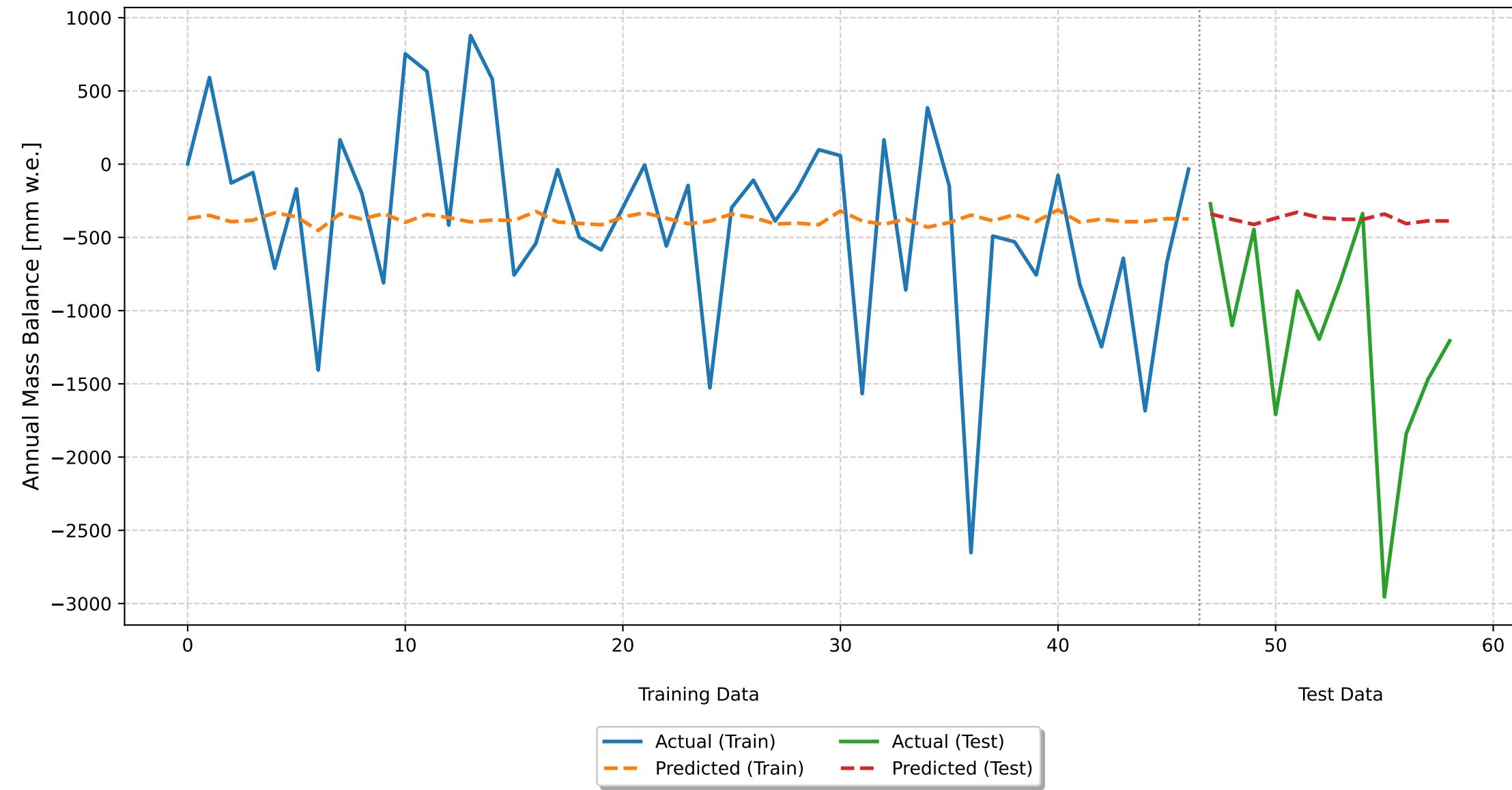
Monthly Deviations Model  
Time Series 80-20 Split  
CV RMSE: 1185.84 ( $\pm 503.43$ )  
Train RMSE: 593.89, Test RMSE: 997.89  
Train R<sup>2</sup>: 0.2168, Test R<sup>2</sup>: -0.9013



## Monthly Deviations Model - Performance Metrics and Coefficients

Metric	Value
Cross-Validation RMSE	1185.84 ( $\pm 503.43$ )
Training RMSE	593.89
Training R <sup>2</sup>	0.2168
Test RMSE	997.89
Test R <sup>2</sup>	-0.9013
Feature	Coefficient
may_td	-46.5939
june_td	-15.7425
july_td	12.6066
august_td	295.8108
september_td	-171.8560
october_pd	150.5784
november_pd	-58.9162
december_pd	102.4133
january_pd	-17.6206
february_pd	-19.5331
march_pd	-94.8795
april_pd	228.1051
Intercept	-376.3830

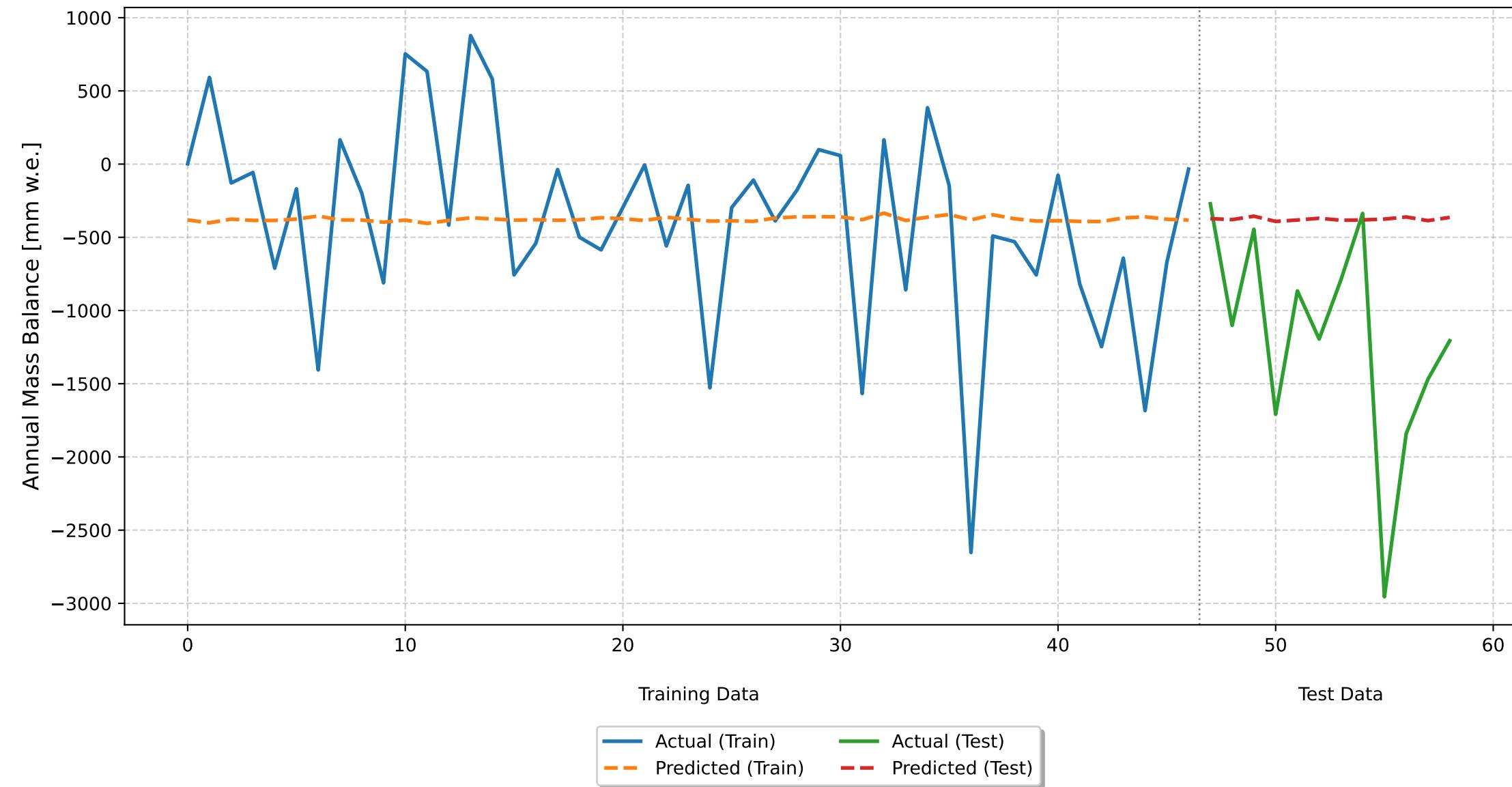
Seasonal Deviations Model  
Time Series 80-20 Split  
CV RMSE: 830.54 ( $\pm 244.84$ )  
Train RMSE: 670.39, Test RMSE: 1088.33  
Train R<sup>2</sup>: 0.0020, Test R<sup>2</sup>: -1.2615



## Seasonal Deviations Model - Performance Metrics and Coefficients

Metric	Value
Cross-Validation RMSE	830.54 ( $\pm 244.84$ )
Training RMSE	670.39
Training R <sup>2</sup>	0.0020
Test RMSE	1088.33
Test R <sup>2</sup>	-1.2615
Feature	Coefficient
summer_temp_dev	-8.9207
winter_precip_dev	26.9714
Intercept	-376.3830

Optimal Seasonal Deviations Model  
Time Series 80-20 Split  
CV RMSE: 829.42 ( $\pm 244.88$ )  
Train RMSE: 670.91, Test RMSE: 1083.42  
Train R<sup>2</sup>: 0.0005, Test R<sup>2</sup>: -1.2412



## Optimal Seasonal Deviations Model - Performance Metrics and Coefficients

Metric	Value
Cross-Validation RMSE	829.42 ( $\pm 244.88$ )
Training RMSE	670.91
Training R <sup>2</sup>	0.0005
Test RMSE	1083.42
Test R <sup>2</sup>	-1.2412
Feature	Coefficient
optimal_summer_temp_dev	14.1305
optimal_winter_precip_dev	-1.1537
Intercept	-376.3830