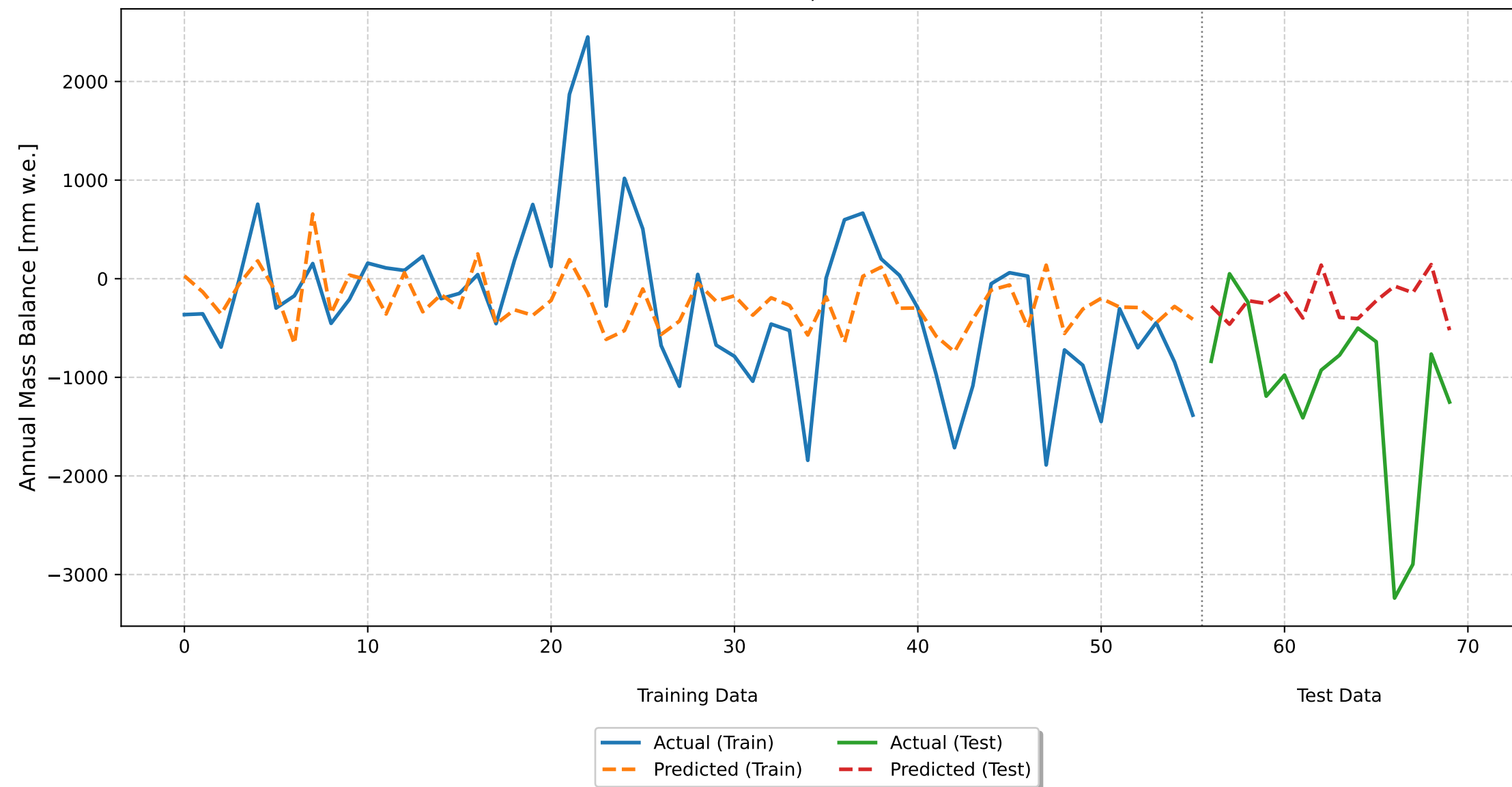


Glacier Mass Balance Model Results: Schwarzberggletscher

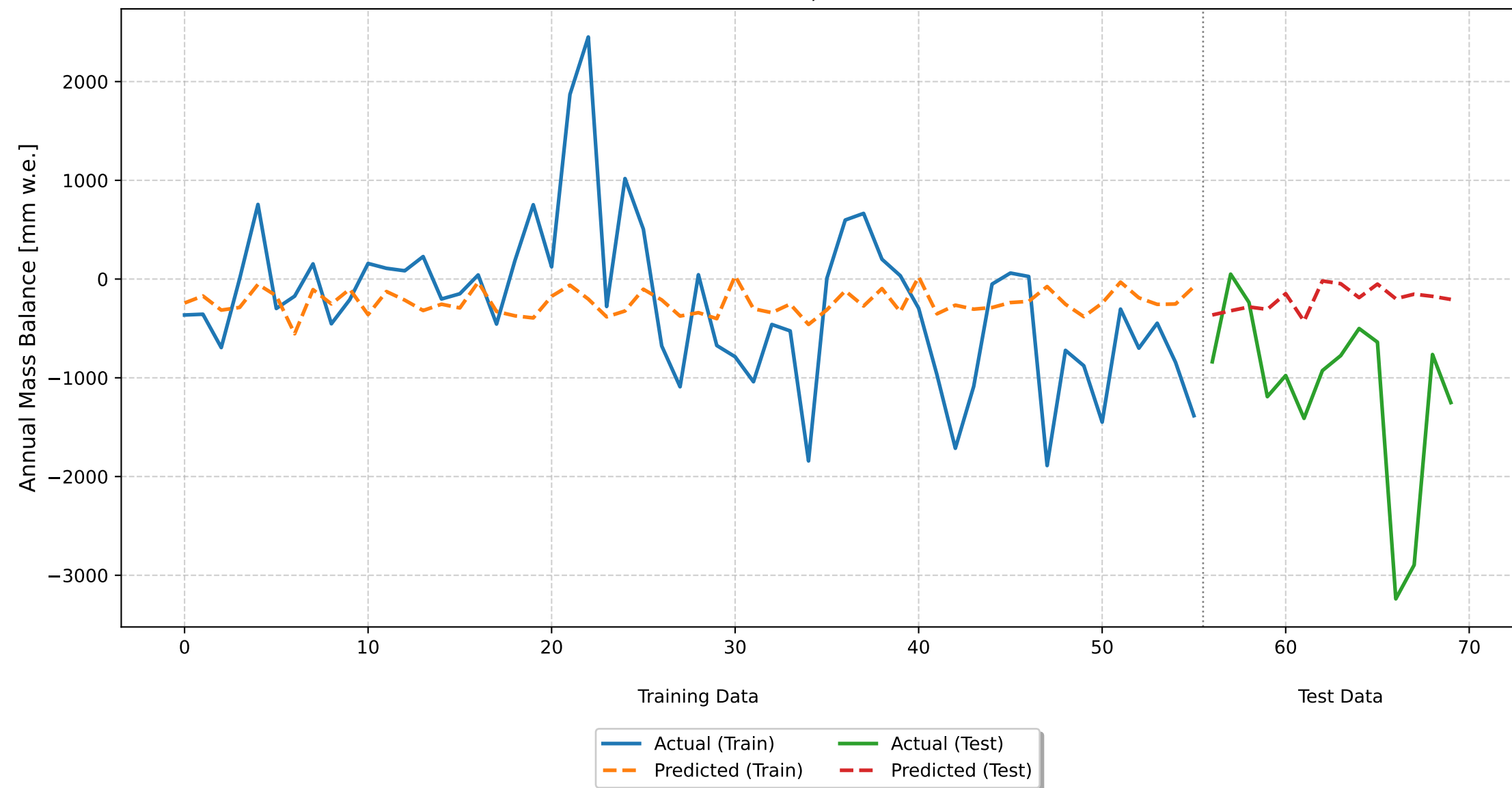
Monthly Deviations Model
Time Series 80-20 Split
CV RMSE: 1272.58 (± 232.55)
Train RMSE: 738.99, Test RMSE: 1298.75
Train R^2 : 0.1115, Test R^2 : -1.1671



Monthly Deviations Model - Performance Metrics and Coefficients

Metric	Value
Cross-Validation RMSE	1272.58 (± 232.55)
Training RMSE	738.99
Training R ²	0.1115
Test RMSE	1298.75
Test R ²	-1.1671
Feature	Coefficient
may_td	103.5986
june_td	12.3596
july_td	-26.0454
august_td	128.8276
september_td	-132.5056
october_pd	131.5305
november_pd	-22.2900
december_pd	100.9363
january_pd	22.5604
february_pd	8.7359
march_pd	13.8959
april_pd	147.3402
Intercept	-239.0357

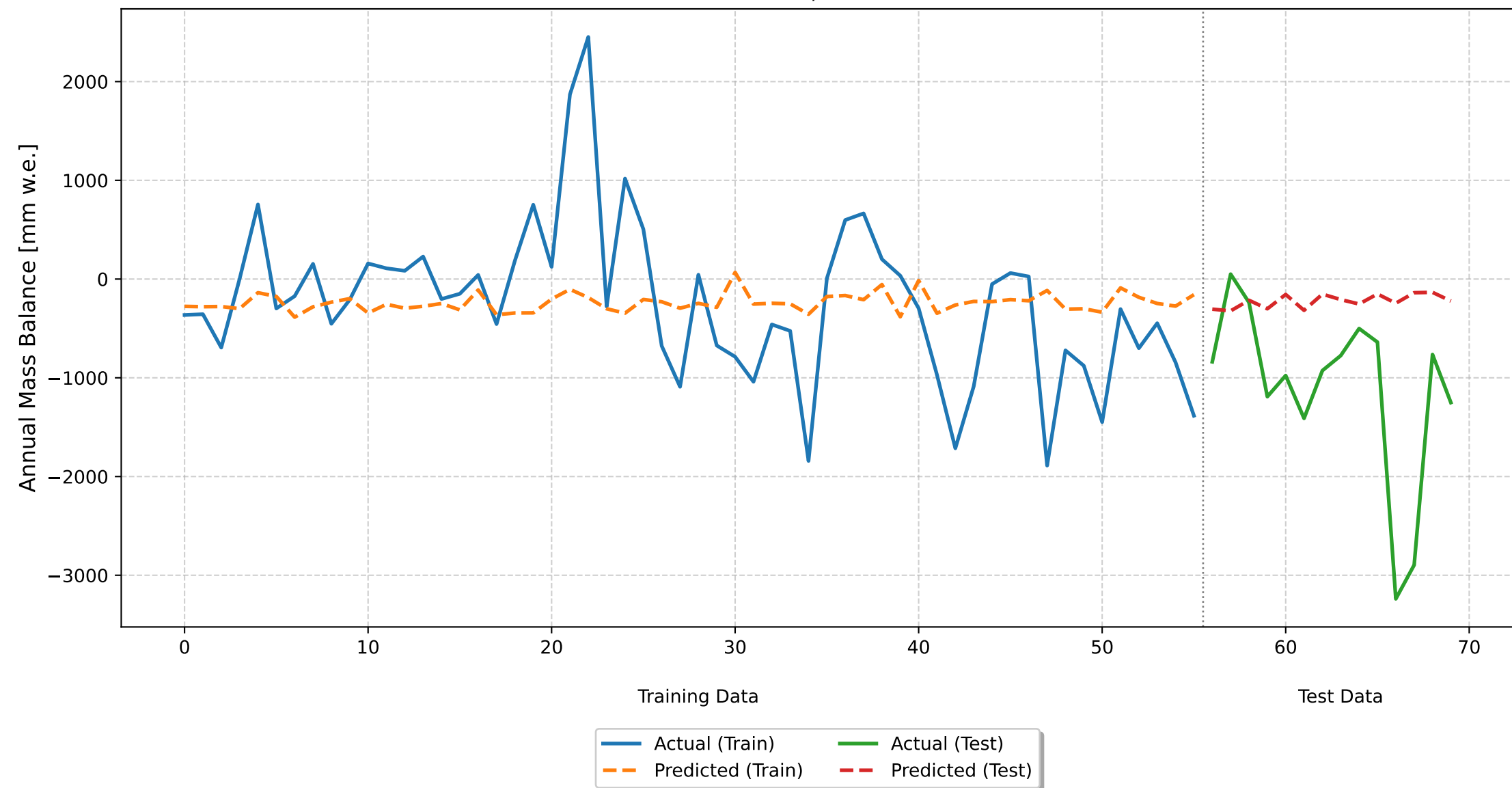
Seasonal Deviations Model
Time Series 80-20 Split
CV RMSE: 1071.43 (± 231.62)
Train RMSE: 774.24, Test RMSE: 1276.31
Train R^2 : 0.0247, Test R^2 : -1.0929



Seasonal Deviations Model - Performance Metrics and Coefficients

Metric	Value
Cross-Validation RMSE	1071.43 (± 231.62)
Training RMSE	774.24
Training R ²	0.0247
Test RMSE	1276.31
Test R ²	-1.0929
Feature	Coefficient
summer_temp_dev	-18.8851
winter_precip_dev	118.8340
Intercept	-239.0357

Optimal Seasonal Deviations Model
Time Series 80-20 Split
CV RMSE: 1087.79 (± 250.43)
Train RMSE: 778.65, Test RMSE: 1263.02
Train R^2 : 0.0136, Test R^2 : -1.0495



Optimal Seasonal Deviations Model - Performance Metrics and Coefficients

Metric	Value
Cross-Validation RMSE	1087.79 (± 250.43)
Training RMSE	778.65
Training R ²	0.0136
Test RMSE	1263.02
Test R ²	-1.0495
Feature	Coefficient
optimal_summer_temp_dev	27.2477
optimal_winter_precip_dev	90.7799
Intercept	-239.0357