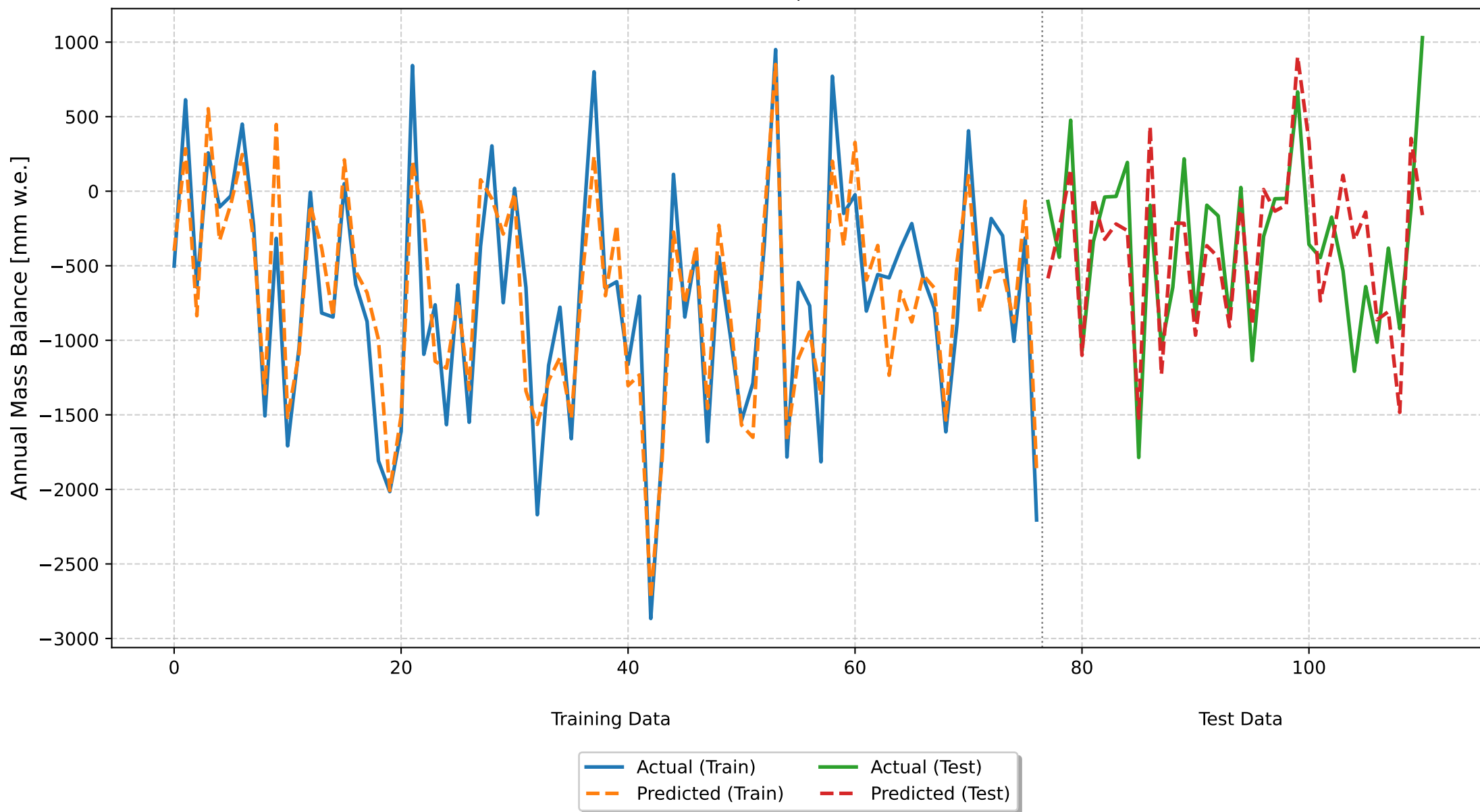


## Glacier Mass Balance Model Results: Grosser Aletschgletscher

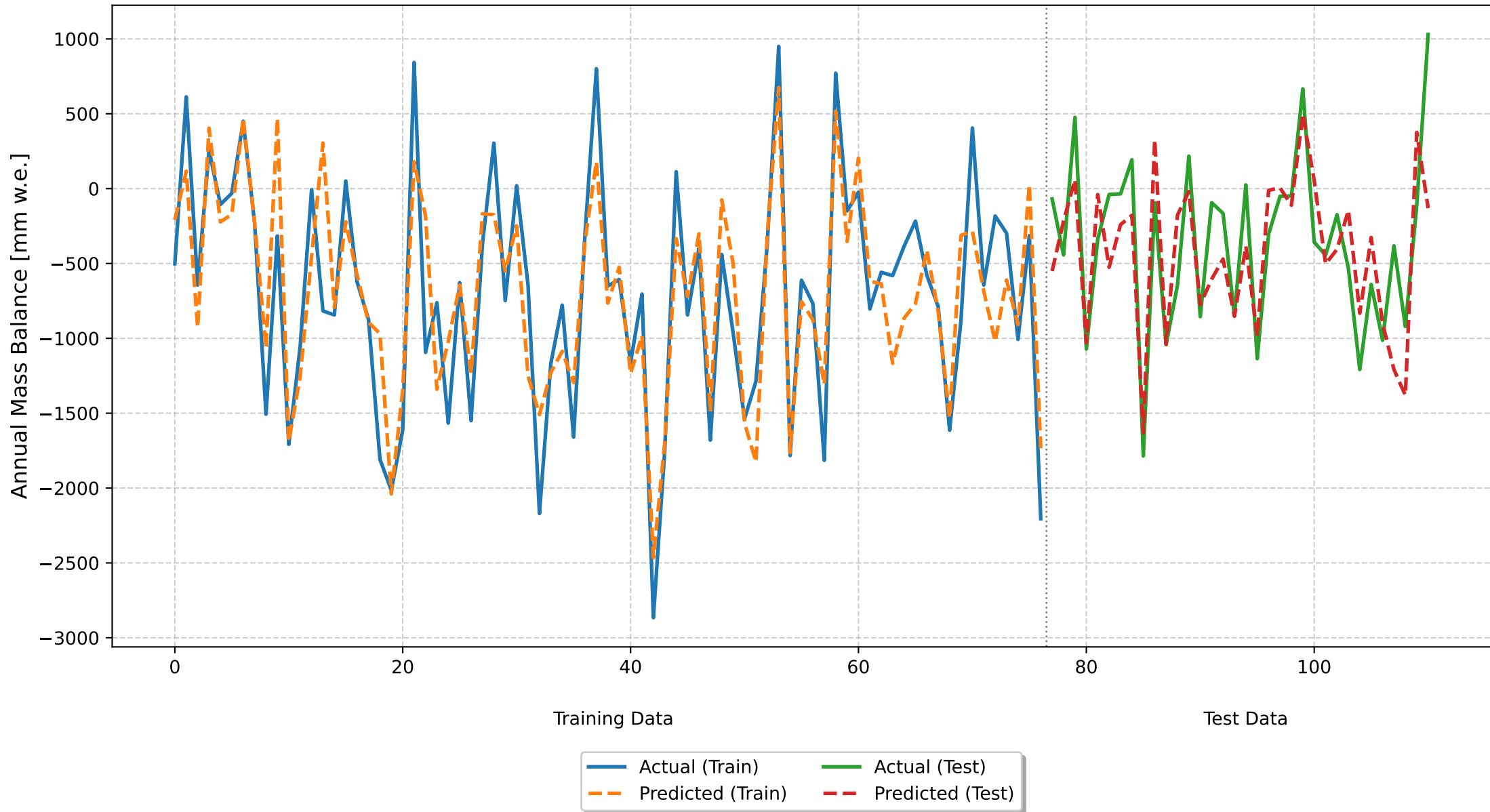
Monthly Deviations Model  
Random 70-30 Split  
Train RMSE: 342.13, Test RMSE: 425.79  
Train R<sup>2</sup>: 0.8032, Test R<sup>2</sup>: 0.4393



## Monthly Deviations Model - Performance Metrics and Coefficients

Metric	Value
Training RMSE	342.13
Training R <sup>2</sup>	0.8032
Test RMSE	425.79
Test R <sup>2</sup>	0.4393
Feature	Coefficient
may_td	-238.2530
june_td	-167.7483
july_td	-209.3012
august_td	-148.6505
september_td	-70.2066
october_pd	157.3459
november_pd	88.2916
december_pd	100.4038
january_pd	130.7602
february_pd	71.3257
march_pd	59.1317
april_pd	-30.2741
Intercept	-701.5065

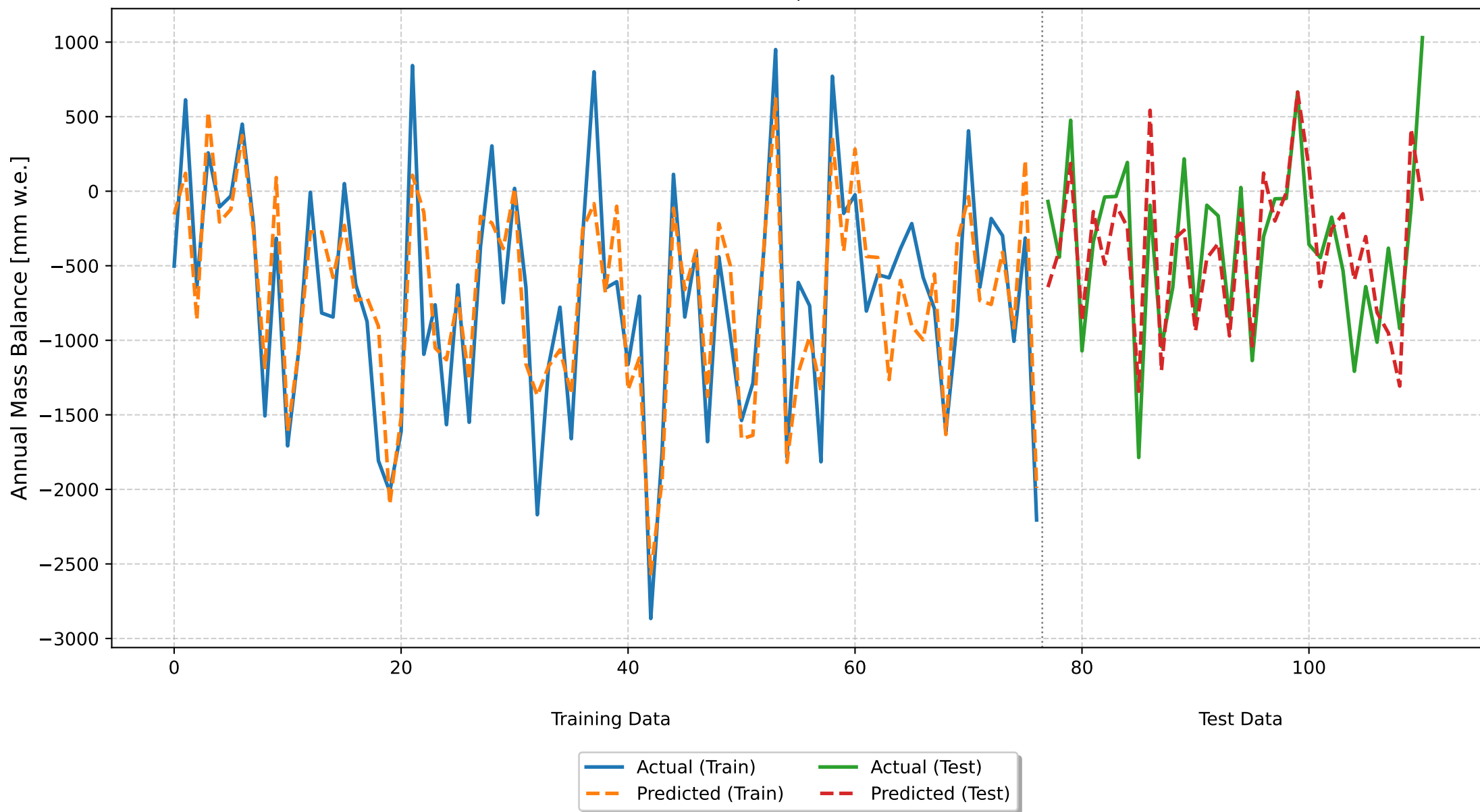
Seasonal Deviations Model  
Random 70-30 Split  
Train RMSE: 395.26, Test RMSE: 391.72  
Train R<sup>2</sup>: 0.7373, Test R<sup>2</sup>: 0.5254



## Seasonal Deviations Model - Performance Metrics and Coefficients

Metric	Value
Training RMSE	395.26
Training R <sup>2</sup>	0.7373
Test RMSE	391.72
Test R <sup>2</sup>	0.5254
Feature	Coefficient
summer_temp_dev	-591.1555
winter_precip_dev	222.8173
Intercept	-701.5065

Optimal Seasonal Deviations Model  
Random 70-30 Split  
Train RMSE: 378.87, Test RMSE: 391.89  
Train R<sup>2</sup>: 0.7586, Test R<sup>2</sup>: 0.5250



## Optimal Seasonal Deviations Model - Performance Metrics and Coefficients

Metric	Value
Training RMSE	378.87
Training R <sup>2</sup>	0.7586
Test RMSE	391.89
Test R <sup>2</sup>	0.5250
Feature	Coefficient
optimal_summer_temp_dev	-598.1744
optimal_winter_precip_dev	223.0012
Intercept	-701.5065