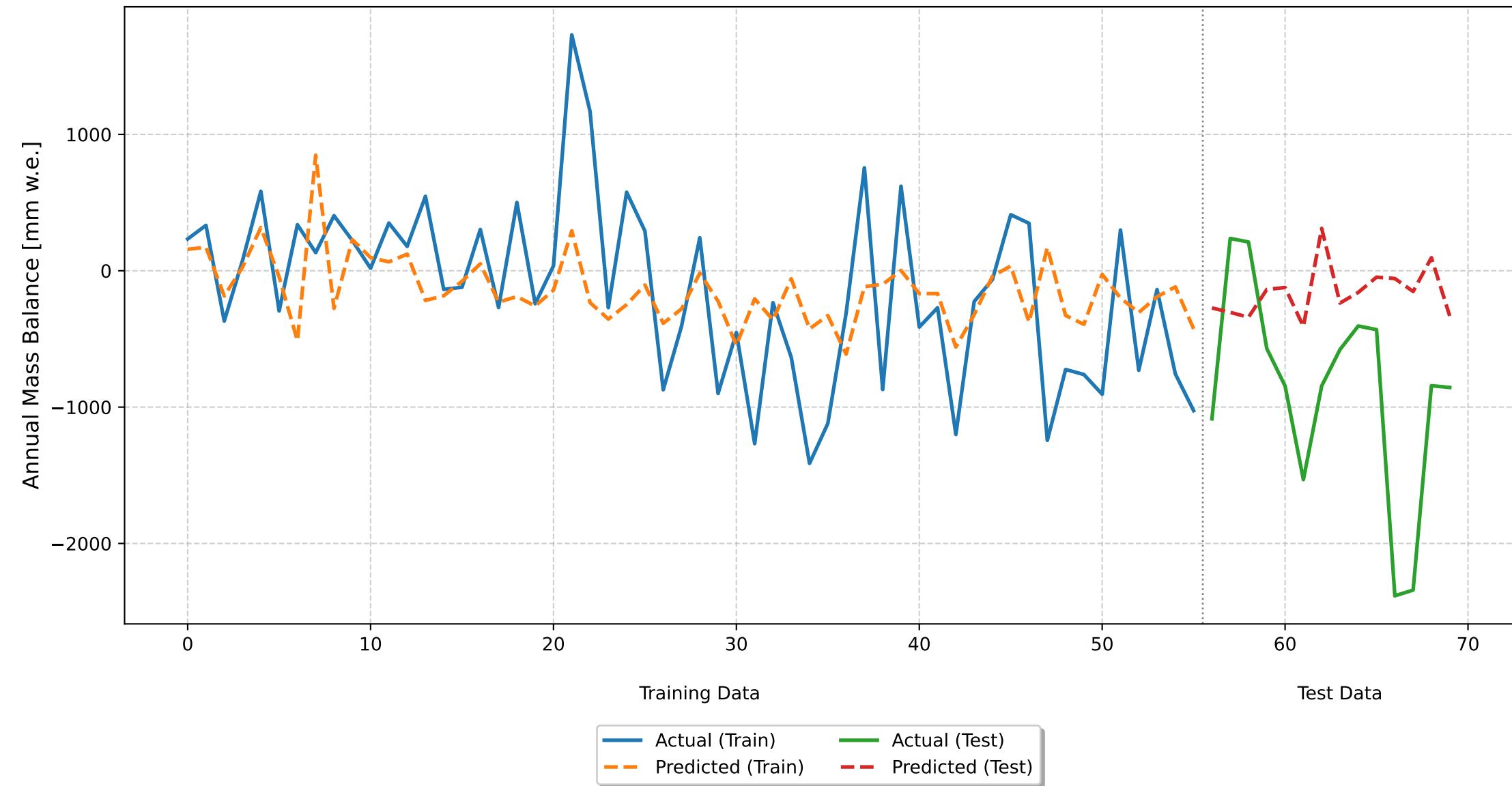


Glacier Mass Balance Model Results: Allalingletscher

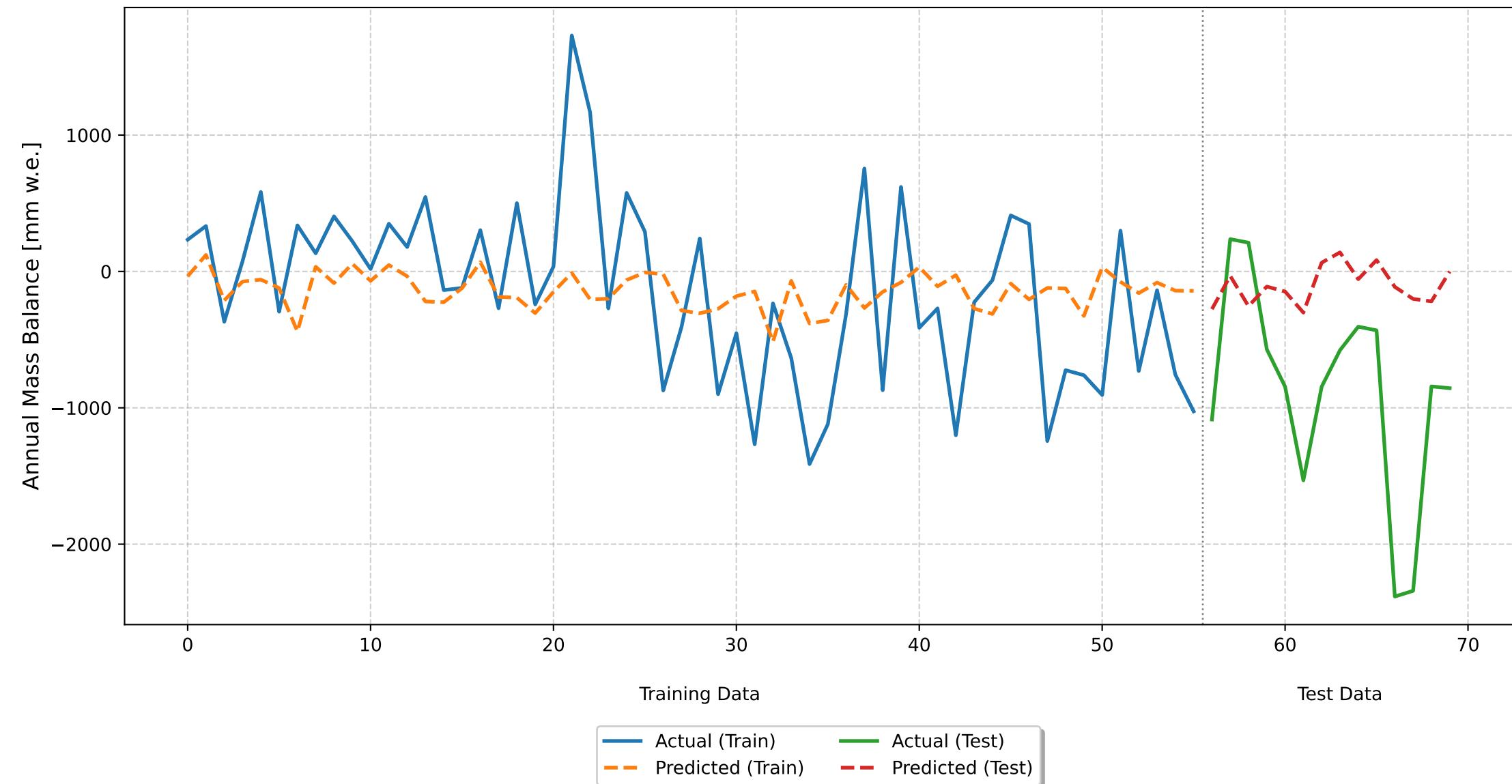
Monthly Deviations Model
Time Series 80-20 Split
CV RMSE: 992.94 (± 141.42)
Train RMSE: 584.56, Test RMSE: 1077.65
Train R²: 0.1553, Test R²: -1.0523



Monthly Deviations Model - Performance Metrics and Coefficients

| Metric | Value |
|-------------------------|-------------------------|
| Cross-Validation RMSE | 992.94 (± 141.42) |
| Training RMSE | 584.56 |
| Training R ² | 0.1553 |
| Test RMSE | 1077.65 |
| Test R ² | -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 |

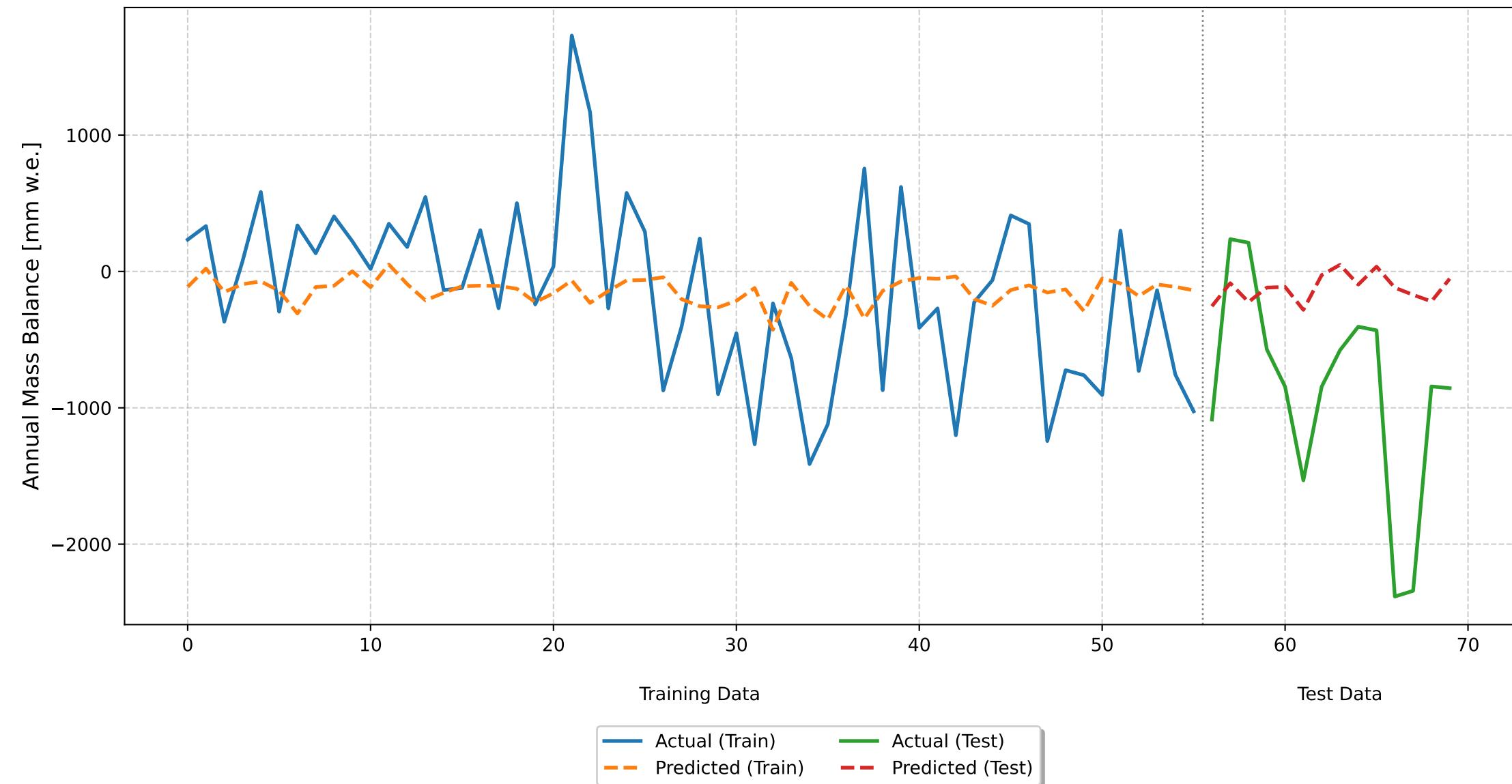
Seasonal Deviations Model
Time Series 80-20 Split
CV RMSE: 847.16 (± 209.41)
Train RMSE: 622.23, Test RMSE: 1060.44
Train R²: 0.0430, Test R²: -0.9873



Seasonal Deviations Model - Performance Metrics and Coefficients

| Metric | Value |
|-------------------------|-------------------------|
| Cross-Validation RMSE | 847.16 (± 209.41) |
| Training RMSE | 622.23 |
| Training R ² | 0.0430 |
| Test RMSE | 1060.44 |
| Test R ² | -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 (± 226.99)
Train RMSE: 629.18, Test RMSE: 1053.45
Train R²: 0.0215, Test R²: -0.9611



Optimal Seasonal Deviations Model - Performance Metrics and Coefficients

| Metric | Value |
|---------------------------|-------------------------|
| Cross-Validation RMSE | 876.94 (± 226.99) |
| Training RMSE | 629.18 |
| Training R ² | 0.0215 |
| Test RMSE | 1053.45 |
| Test R ² | -0.9611 |
| Feature | Coefficient |
| optimal_summer_temp_dev | -89.0790 |
| optimal_winter_precip_dev | 18.5393 |
| Intercept | -142.0893 |