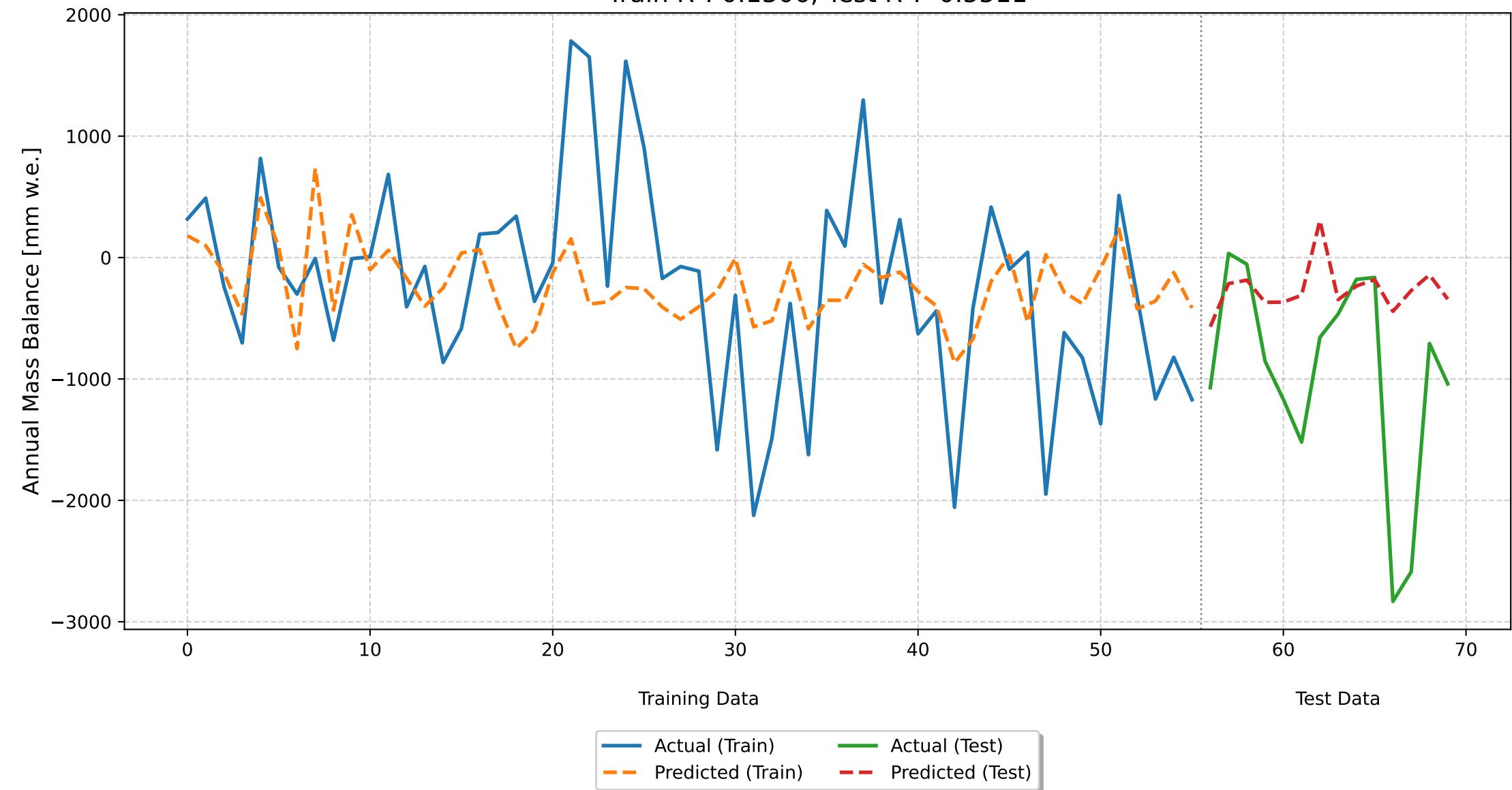


Glacier Mass Balance Model Results: Hohlaubgletscher

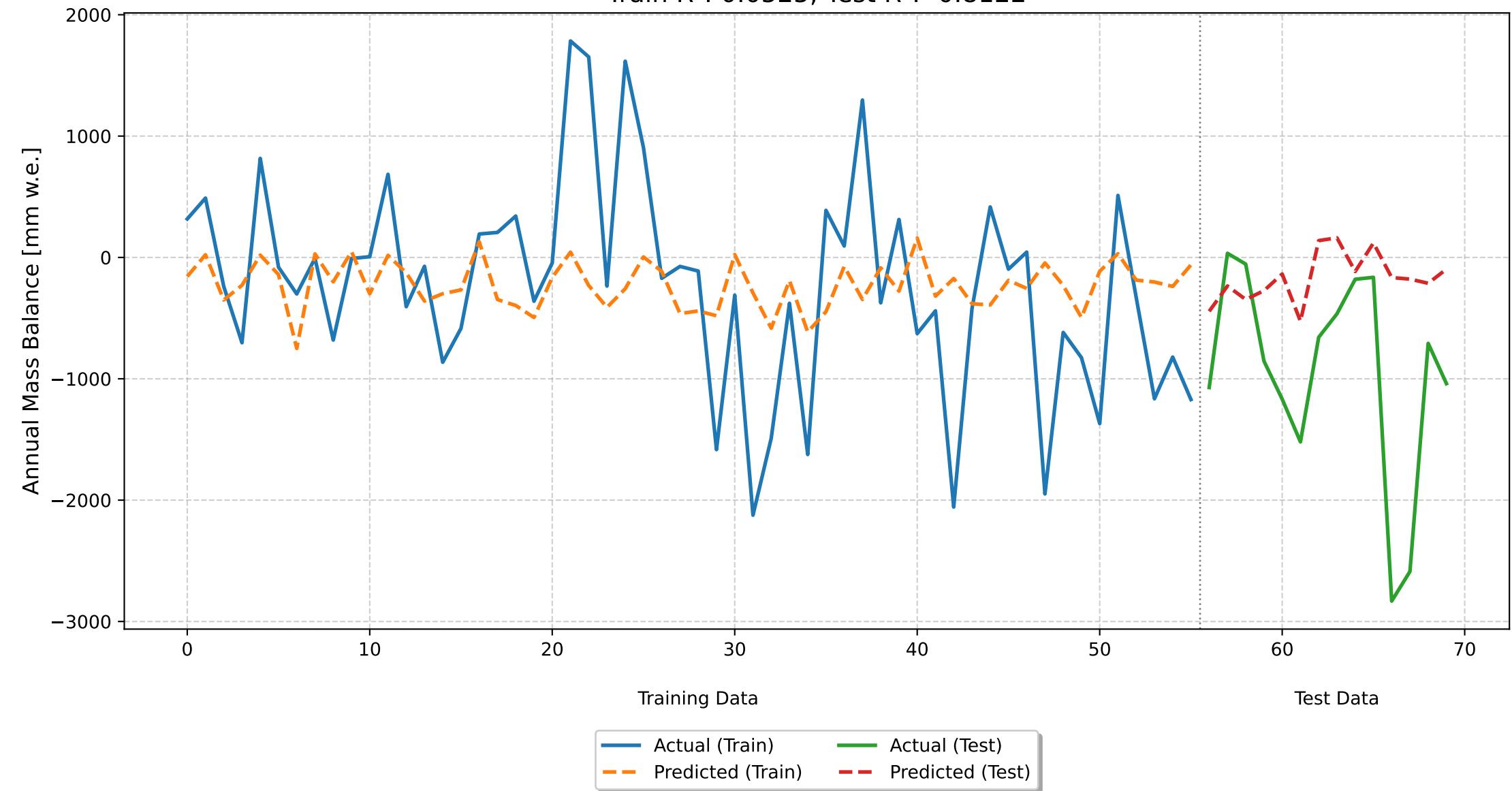
Monthly Deviations Model
Time Series 80-20 Split
CV RMSE: 1217.45 (± 314.79)
Train RMSE: 794.40, Test RMSE: 1051.97
Train R²: 0.1306, Test R²: -0.5511



Monthly Deviations Model - Performance Metrics and Coefficients

| Metric | Value |
|-------------------------|--------------------------|
| Cross-Validation RMSE | 1217.45 (± 314.79) |
| Training RMSE | 794.40 |
| Training R ² | 0.1306 |
| Test RMSE | 1051.97 |
| Test R ² | -0.5511 |
| | |
| Feature | Coefficient |
| may_td | 6.3643 |
| june_td | 50.9000 |
| july_td | -92.7354 |
| august_td | 53.1215 |
| september_td | -144.5698 |
| october_pd | -5.3844 |
| november_pd | 35.6698 |
| december_pd | 193.0764 |
| january_pd | 7.6782 |
| february_pd | -70.2096 |
| march_pd | 2.7541 |
| april_pd | 159.4791 |
| Intercept | -225.9821 |

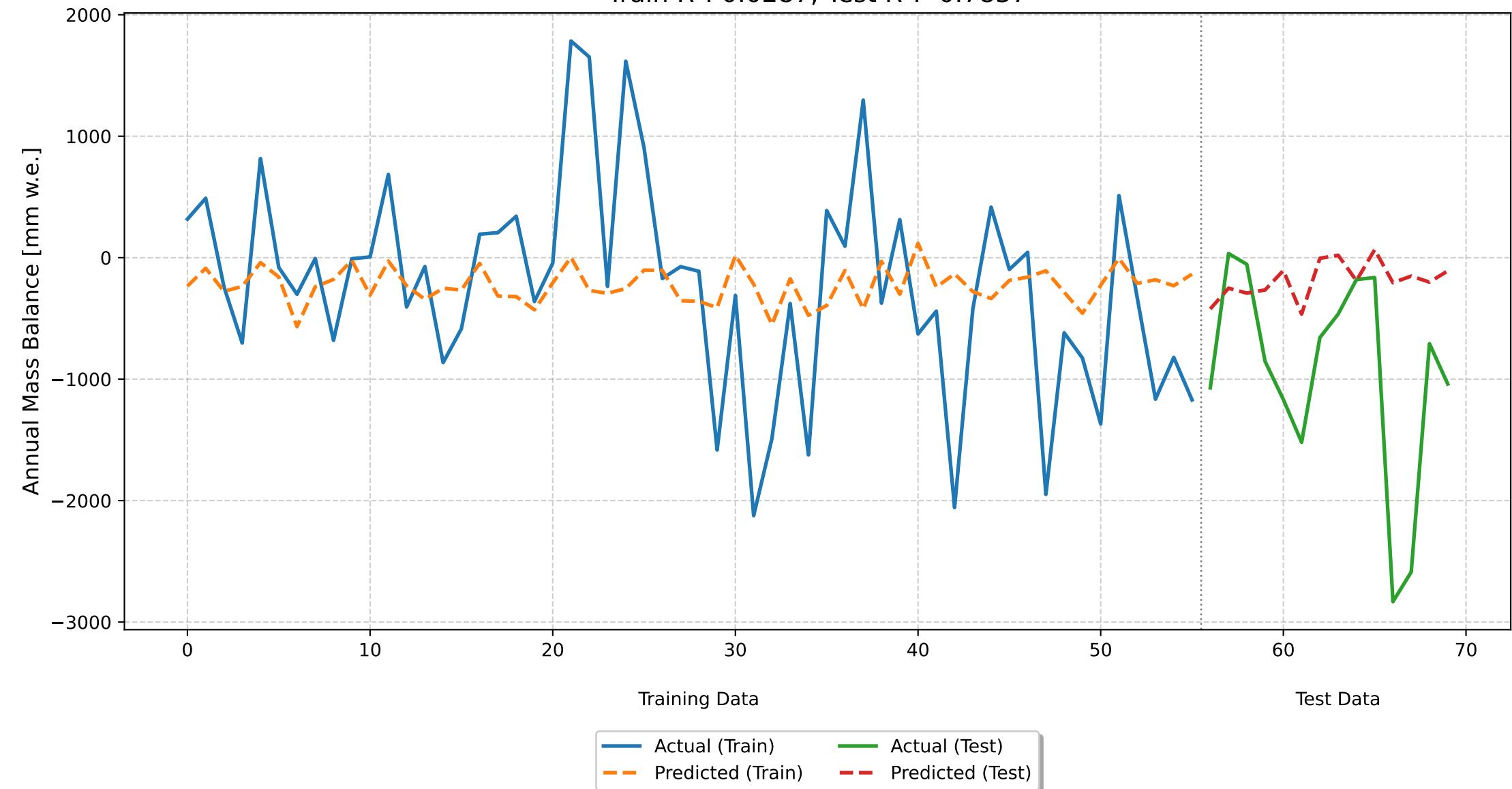
Seasonal Deviations Model
Time Series 80-20 Split
CV RMSE: 1035.99 (± 176.16)
Train RMSE: 829.35, Test RMSE: 1137.06
Train R²: 0.0525, Test R²: -0.8122



Seasonal Deviations Model - Performance Metrics and Coefficients

| Metric | Value |
|-------------------------|--------------------------|
| Cross-Validation RMSE | 1035.99 (± 176.16) |
| Training RMSE | 829.35 |
| Training R ² | 0.0525 |
| Test RMSE | 1137.06 |
| Test R ² | -0.8122 |
| | |
| Feature | Coefficient |
| summer_temp_dev | -97.4297 |
| winter_precip_dev | 154.0672 |
| Intercept | -225.9821 |

Optimal Seasonal Deviations Model
Time Series 80-20 Split
CV RMSE: 1054.37 (± 194.52)
Train RMSE: 839.69, Test RMSE: 1128.11
Train R²: 0.0287, Test R²: -0.7837



Optimal Seasonal Deviations Model - Performance Metrics and Coefficients

| Metric | Value |
|---------------------------|--------------------------|
| Cross-Validation RMSE | 1054.37 (± 194.52) |
| Training RMSE | 839.69 |
| Training R ² | 0.0287 |
| Test RMSE | 1128.11 |
| Test R ² | -0.7837 |
| Feature | Coefficient |
| optimal_summer_temp_dev | -70.4155 |
| optimal_winter_precip_dev | 117.3592 |
| Intercept | -225.9821 |