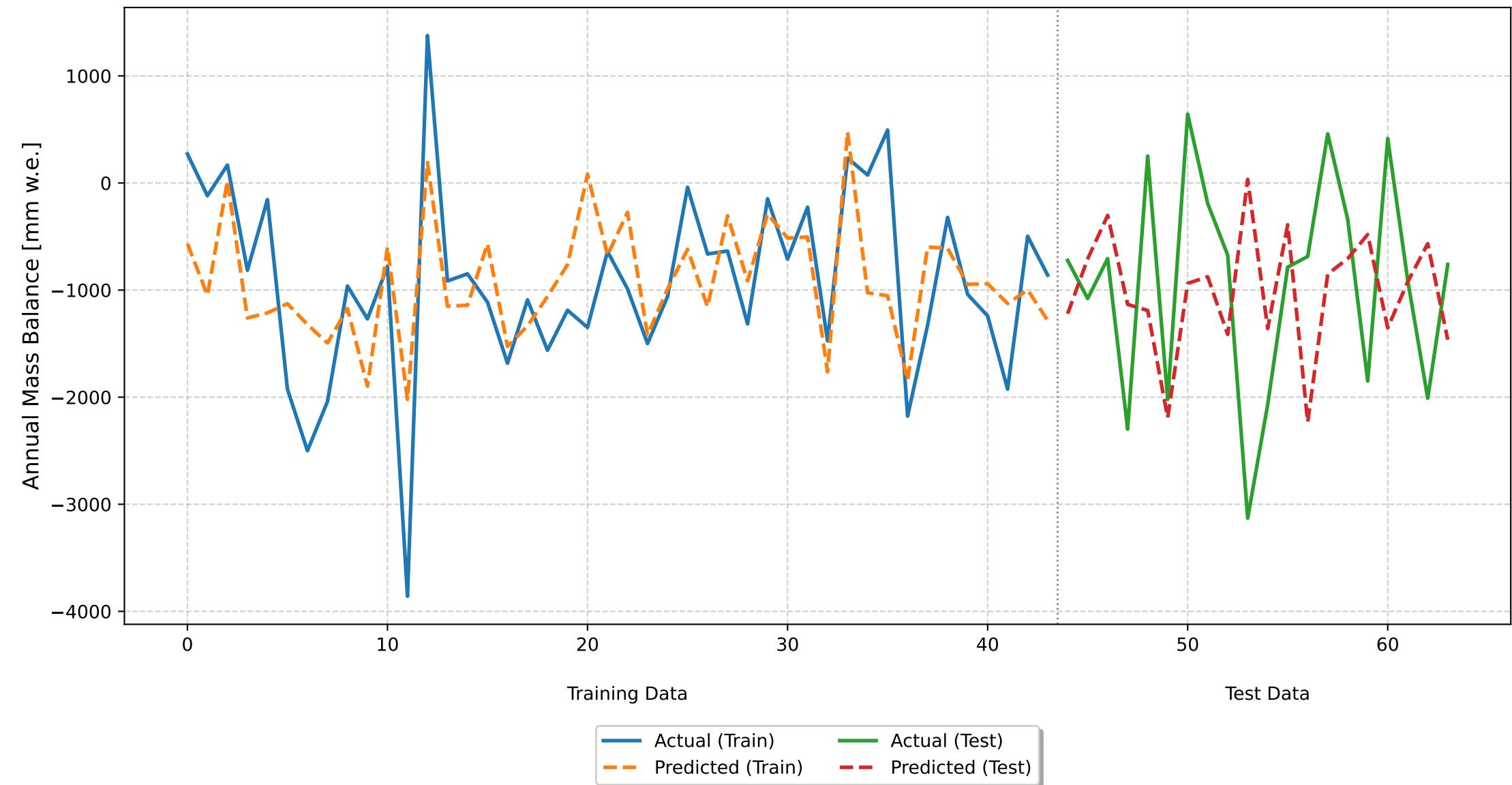


Glacier Mass Balance Model Results: Griesgletscher

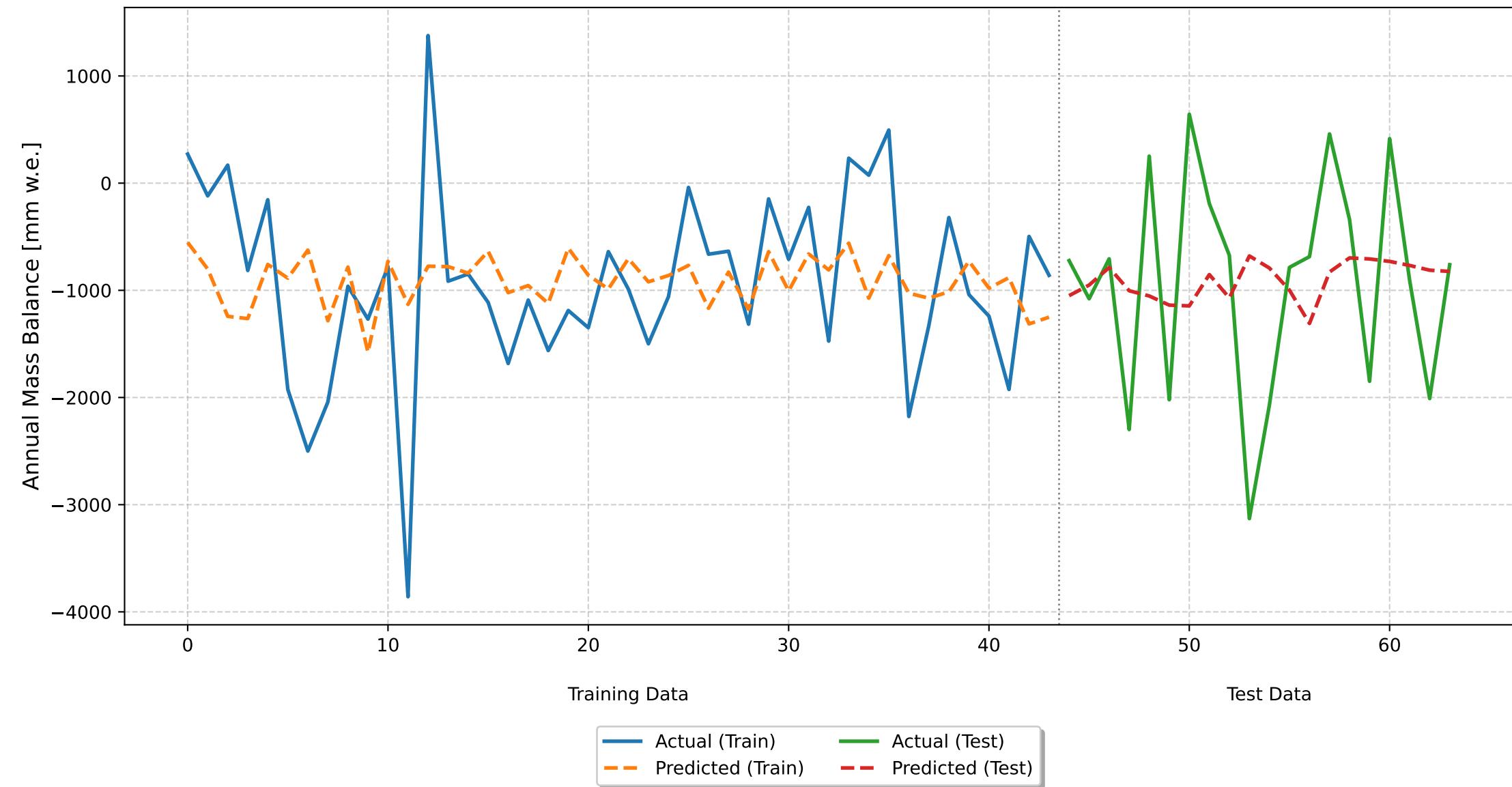
Monthly Deviations Model
Random 70-30 Split
CV RMSE: 1011.69 (± 267.14)
Train RMSE: 684.88, Test RMSE: 1225.08
Train R²: 0.4046, Test R²: -0.5004



Monthly Deviations Model - Performance Metrics and Coefficients

| Metric | Value |
|-------------------------|--------------------------|
| Cross-Validation RMSE | 1011.69 (± 267.14) |
| Training RMSE | 684.88 |
| Training R ² | 0.4046 |
| Test RMSE | 1225.08 |
| Test R ² | -0.5004 |
| | |
| Feature | Coefficient |
| may_td | -8.3307 |
| june_td | 282.3149 |
| july_td | -213.0575 |
| august_td | 156.0857 |
| september_td | -263.6414 |
| october_pd | -66.2401 |
| november_pd | -243.2429 |
| december_pd | 126.7882 |
| january_pd | -354.1329 |
| february_pd | -193.2462 |
| march_pd | -119.9319 |
| april_pd | 87.6910 |
| Intercept | -916.8409 |

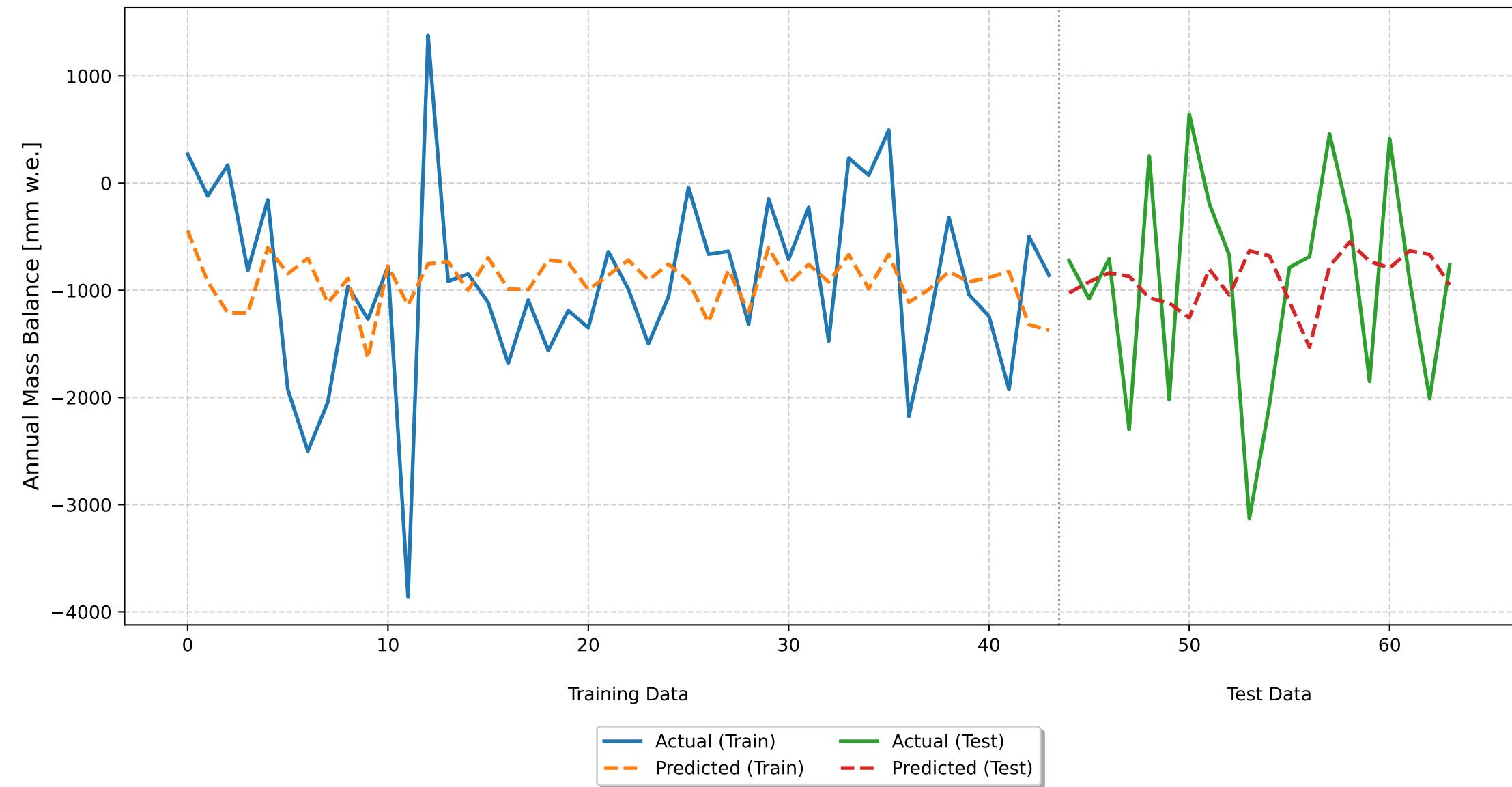
Seasonal Deviations Model
Random 70-30 Split
CV RMSE: 929.49 (± 268.27)
Train RMSE: 855.13, Test RMSE: 1049.14
Train R²: 0.0718, Test R²: -0.1004



Seasonal Deviations Model - Performance Metrics and Coefficients

| Metric | Value |
|-------------------------|-------------------------|
| Cross-Validation RMSE | 929.49 (± 268.27) |
| Training RMSE | 855.13 |
| Training R ² | 0.0718 |
| Test RMSE | 1049.14 |
| Test R ² | -0.1004 |
| Feature | Coefficient |
| summer_temp_dev | -94.5540 |
| winter_precip_dev | -219.6563 |
| Intercept | -916.8409 |

Optimal Seasonal Deviations Model
Random 70-30 Split
CV RMSE: 932.57 (± 276.38)
Train RMSE: 855.25, Test RMSE: 1097.03
Train R²: 0.0715, Test R²: -0.2031



Optimal Seasonal Deviations Model - Performance Metrics and Coefficients

| Metric | Value |
|---------------------------|-------------------------|
| Cross-Validation RMSE | 932.57 (± 276.38) |
| Training RMSE | 855.25 |
| Training R ² | 0.0715 |
| Test RMSE | 1097.03 |
| Test R ² | -0.2031 |
| Feature | Coefficient |
| optimal_summer_temp_dev | -12.2648 |
| optimal_winter_precip_dev | -233.0862 |
| Intercept | -916.8409 |