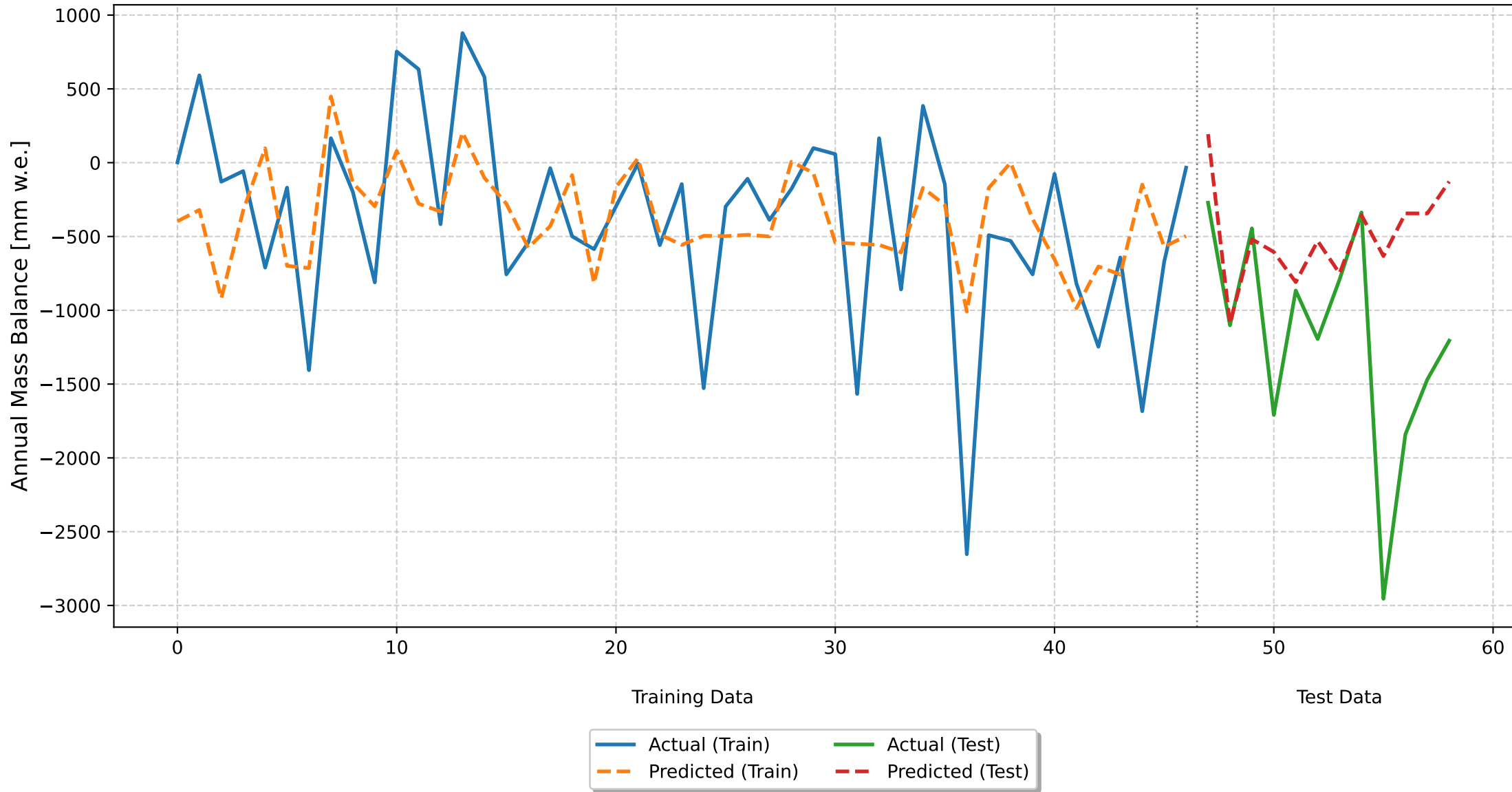


Glacier Mass Balance Model Results: Glacier du Giétro

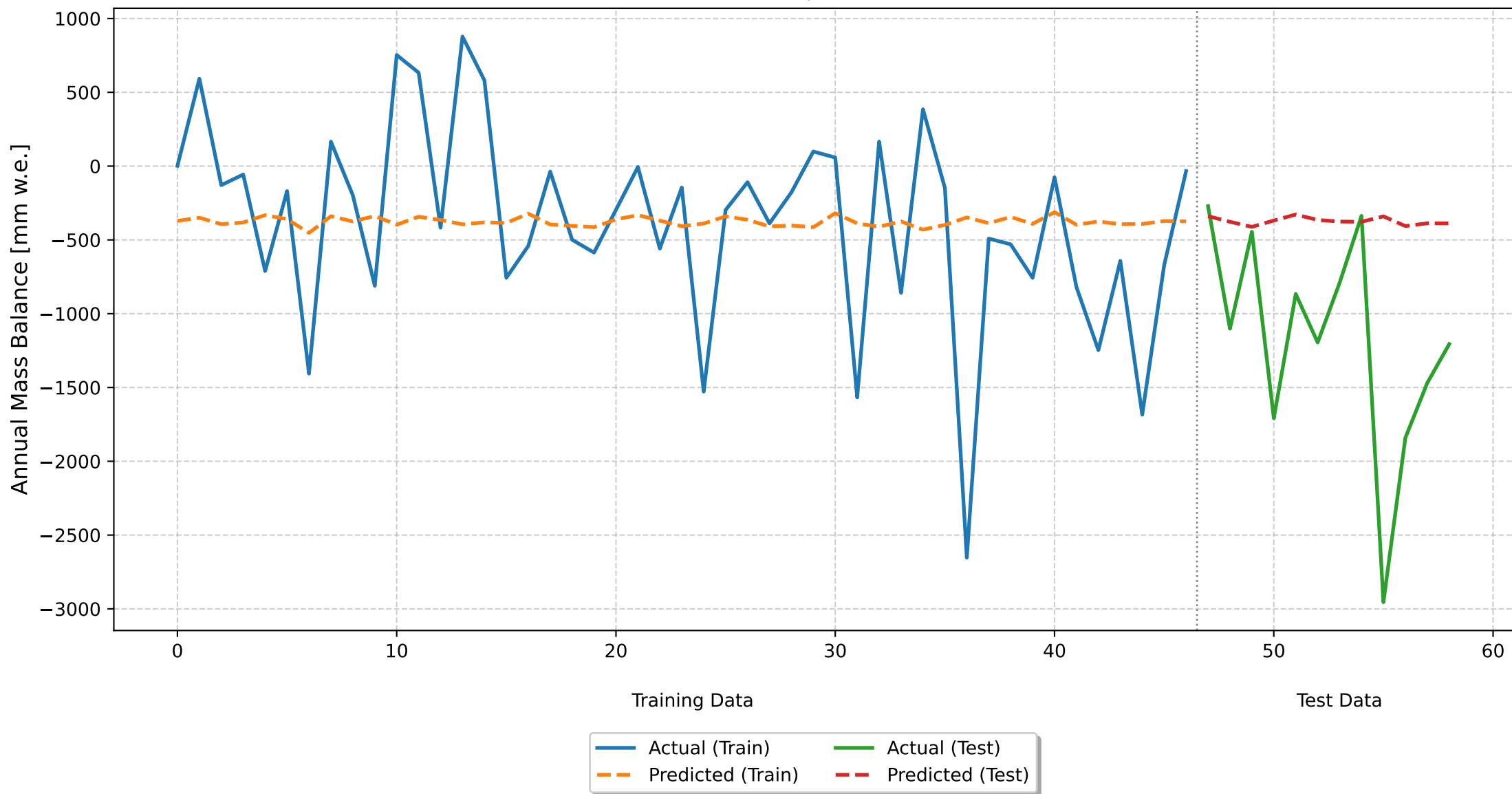
Monthly Deviations Model
Time Series 80-20 Split
CV RMSE: 1185.84 (± 503.43)
Train RMSE: 593.89, Test RMSE: 997.89
Train R²: 0.2168, Test R²: -0.9013



Monthly Deviations Model - Performance Metrics and Coefficients

| Metric | Value |
|-------------------------|--------------------------|
| Cross-Validation RMSE | 1185.84 (± 503.43) |
| Training RMSE | 593.89 |
| Training R ² | 0.2168 |
| Test RMSE | 997.89 |
| Test R ² | -0.9013 |
| | |
| Feature | Coefficient |
| may_td | -46.5939 |
| june_td | -15.7425 |
| july_td | 12.6066 |
| august_td | 295.8108 |
| september_td | -171.8560 |
| october_pd | 150.5784 |
| november_pd | -58.9162 |
| december_pd | 102.4133 |
| january_pd | -17.6206 |
| february_pd | -19.5331 |
| march_pd | -94.8795 |
| april_pd | 228.1051 |
| Intercept | -376.3830 |

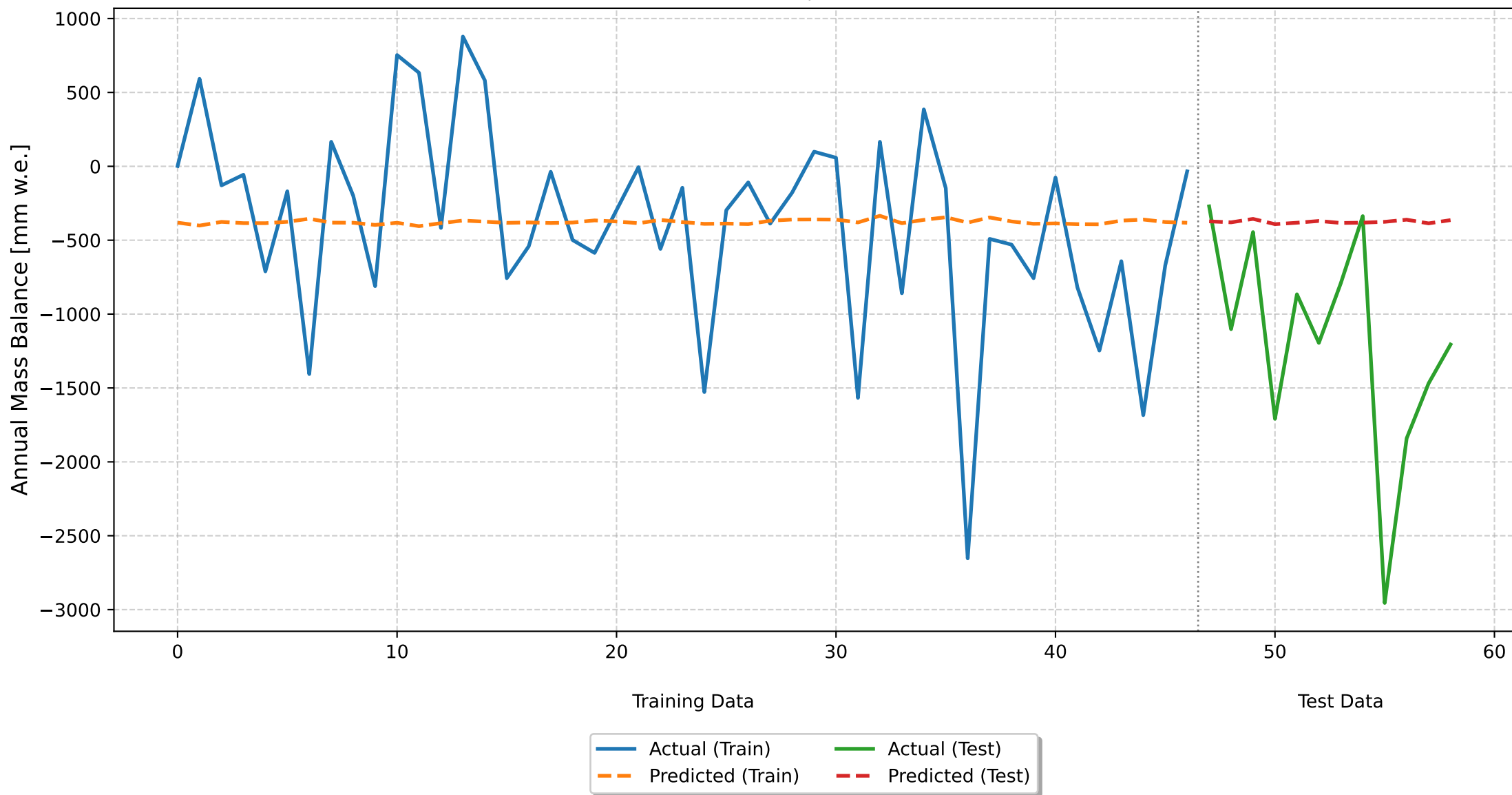
Seasonal Deviations Model
Time Series 80-20 Split
CV RMSE: 830.54 (± 244.84)
Train RMSE: 670.39, Test RMSE: 1088.33
Train R^2 : 0.0020, Test R^2 : -1.2615



Seasonal Deviations Model - Performance Metrics and Coefficients

| Metric | Value |
|-------------------------|-------------------------|
| Cross-Validation RMSE | 830.54 (± 244.84) |
| Training RMSE | 670.39 |
| Training R ² | 0.0020 |
| Test RMSE | 1088.33 |
| Test R ² | -1.2615 |
| | |
| Feature | Coefficient |
| summer_temp_dev | -8.9207 |
| winter_precip_dev | 26.9714 |
| Intercept | -376.3830 |

Optimal Seasonal Deviations Model
Time Series 80-20 Split
CV RMSE: 829.42 (± 244.88)
Train RMSE: 670.91, Test RMSE: 1083.42
Train R^2 : 0.0005, Test R^2 : -1.2412



Optimal Seasonal Deviations Model - Performance Metrics and Coefficients

| Metric | Value |
|---------------------------|-------------------------|
| Cross-Validation RMSE | 829.42 (± 244.88) |
| Training RMSE | 670.91 |
| Training R ² | 0.0005 |
| Test RMSE | 1083.42 |
| Test R ² | -1.2412 |
| | |
| Feature | Coefficient |
| optimal_summer_temp_dev | 14.1305 |
| optimal_winter_precip_dev | -1.1537 |
| Intercept | -376.3830 |