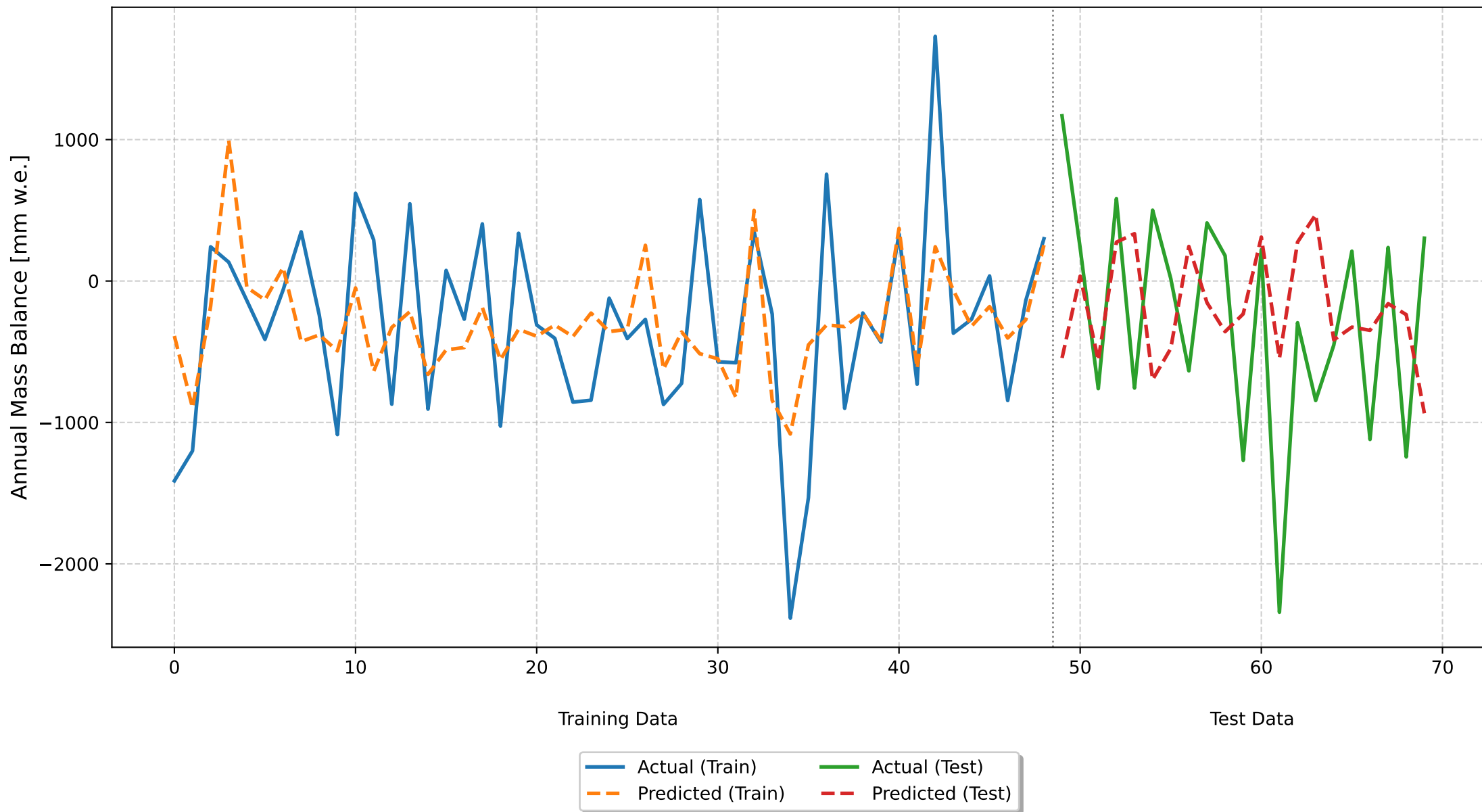


## Glacier Mass Balance Model Results: Allalingletscher

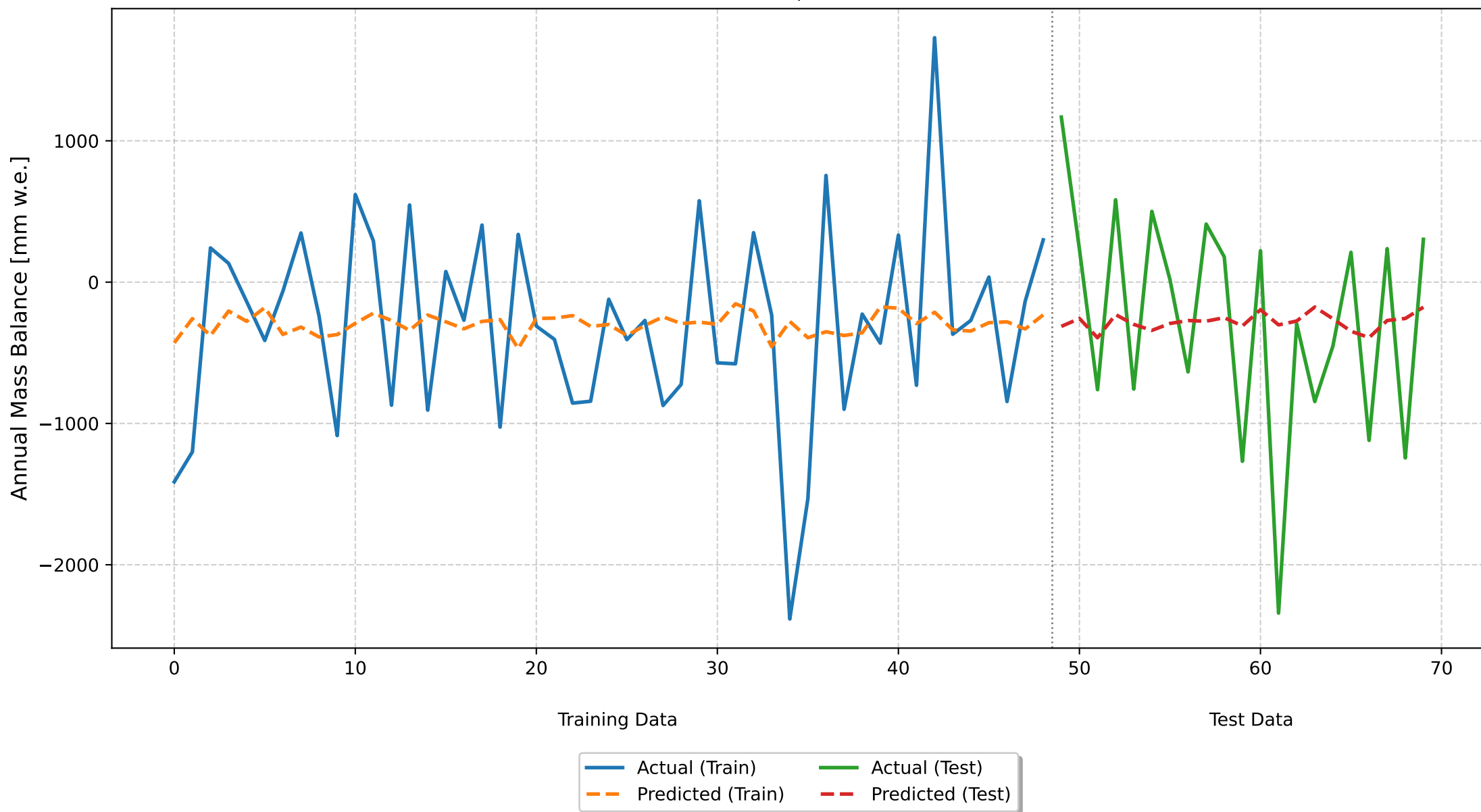
Monthly Deviations Model  
Random 70-30 Split  
Train RMSE: 579.99, Test RMSE: 907.87  
Train R<sup>2</sup>: 0.2901, Test R<sup>2</sup>: -0.2930



## Monthly Deviations Model - Performance Metrics and Coefficients

| Metric                  | Value       |
|-------------------------|-------------|
| Training RMSE           | 579.99      |
| Training R <sup>2</sup> | 0.2901      |
| Test RMSE               | 907.87      |
| Test R <sup>2</sup>     | -0.2930     |
|                         |             |
| Feature                 | Coefficient |
| may_td                  | 59.9416     |
| june_td                 | -109.0030   |
| july_td                 | -31.9949    |
| august_td               | -8.8897     |
| september_td            | -37.7508    |
| october_pd              | -141.7207   |
| november_pd             | -36.7174    |
| december_pd             | 167.5166    |
| january_pd              | 59.1347     |
| february_pd             | -73.6425    |
| march_pd                | -133.6114   |
| april_pd                | 200.1921    |
| Intercept               | -297.4286   |

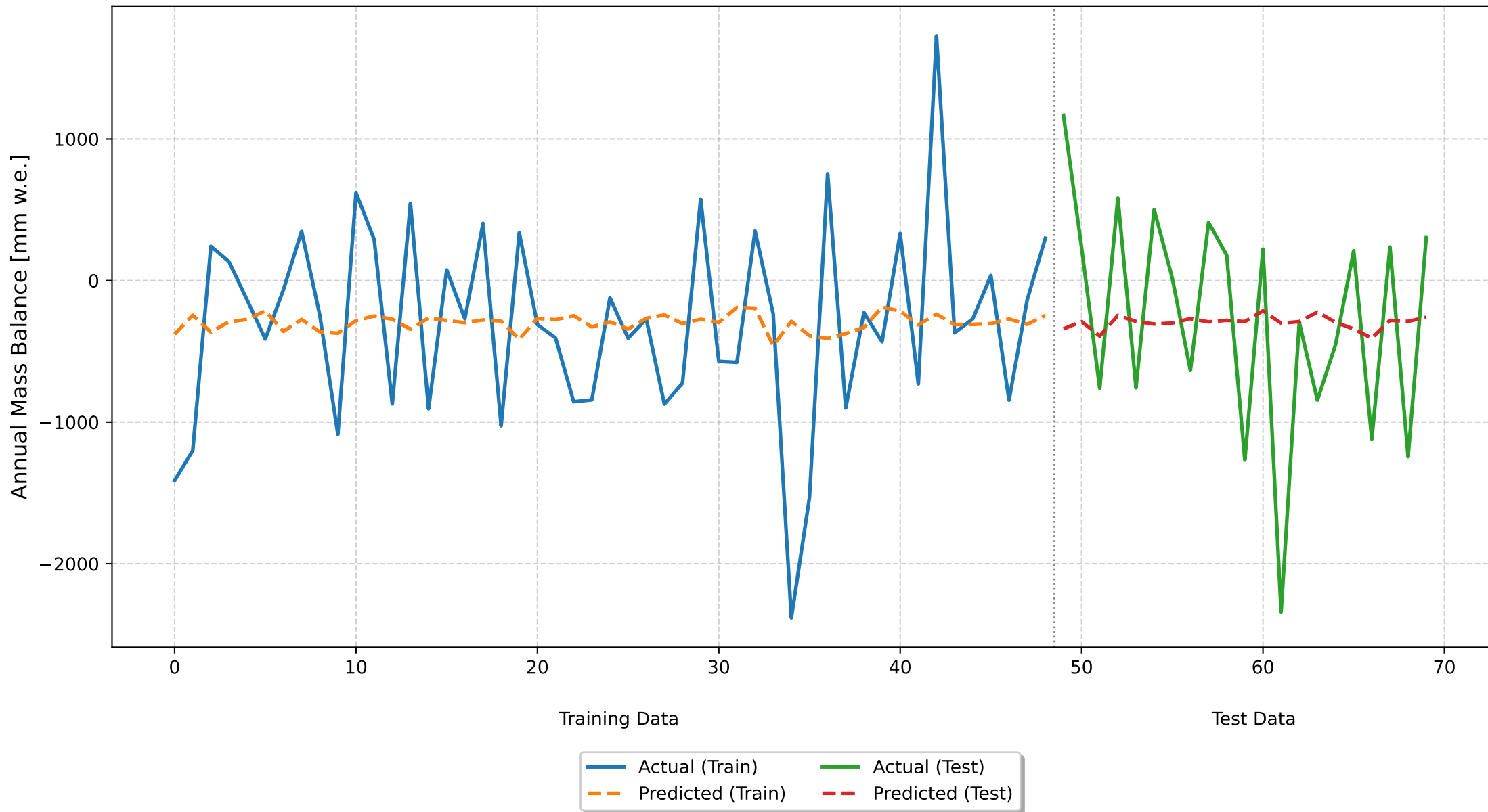
Seasonal Deviations Model  
Random 70-30 Split  
Train RMSE: 684.52, Test RMSE: 789.09  
Train R<sup>2</sup>: 0.0112, Test R<sup>2</sup>: 0.0232



## Seasonal Deviations Model - Performance Metrics and Coefficients

| Metric                  | Value       |
|-------------------------|-------------|
| Training RMSE           | 684.52      |
| Training R <sup>2</sup> | 0.0112      |
| Test RMSE               | 789.09      |
| Test R <sup>2</sup>     | 0.0232      |
|                         |             |
| Feature                 | Coefficient |
| summer_temp_dev         | -48.2736    |
| winter_precip_dev       | 39.7383     |
| Intercept               | -297.4286   |

Optimal Seasonal Deviations Model  
Random 70-30 Split  
Train RMSE: 685.78, Test RMSE: 793.56  
Train R<sup>2</sup>: 0.0076, Test R<sup>2</sup>: 0.0121



## Optimal Seasonal Deviations Model - Performance Metrics and Coefficients

| Metric                    | Value       |
|---------------------------|-------------|
| Training RMSE             | 685.78      |
| Training R <sup>2</sup>   | 0.0076      |
| Test RMSE                 | 793.56      |
| Test R <sup>2</sup>       | 0.0121      |
|                           |             |
| Feature                   | Coefficient |
| optimal_summer_temp_dev   | -47.1030    |
| optimal_winter_precip_dev | 22.7646     |
| Intercept                 | -297.4286   |