



A scatter plot showing the spatial distribution of training and testing points in UTM coordinates. The x-axis is labeled 'UTM_E' and ranges from 555,000 to 570,000. The y-axis is labeled 'UTM_N' and ranges from 4,895,000 to 4,905,000. The plot features a black outline representing a lake boundary. Training points are marked with orange '+' symbols, and testing points are marked with green dots. The training points are more numerous and are distributed both inside and outside the lake boundary. The testing points are fewer and are primarily located within the lake boundary.

	Full Training				Testing
Tuning		training		validation	
		training	validation	training	
	training	validation	training		
	training	validation		training	
	validation		training		
After tuning	full training				testing

Regularization			DNN-specific		
Environmental α_e, λ_e	Saptial α_s, λ_s	Biotic covariance α_b, λ_b^*	Hidden layers	Dropout rate	Learning rate
0 to 1, step 0.2	0 to 1, step 0.25	0 to 1, step 0.1	50, 50, 10 25, 25, 10	0.1, 0.2	0.001, 0.002

* α_b, λ_b were set to the same value for each run