Forecasting Leptospirosis Outbreak Magnitude in California Sea Lions

Our Coalition is creating an online, user-friendly public platform to visualize forecasts of leptospirosis outbreak magnitude in California Sea Lions. This platform will be valuable for outbreak preparedness among marine mammal stranding networks and rehabilitation organizations. The Bayesian modeling framework allows for assessment of associations between outbreak size and various input variables, including environmental conditions, leptospirosis strandings, sea lion demography, and environmental variables. The platform will allow for forecasting several months in advance and will provide quantification of forecasting uncertainty for stakeholders engaged in marine mammal stranding and response.