Coastal Maine Paralytic Shellfish Poison Forecast

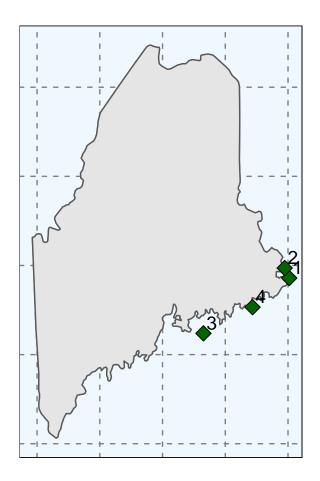
Bigelow Laboratory for Ocean Sciences

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Our forecast has high confidence of low toxicity at all sites included this week.

n	location	name	lat	lon	start_date	end_date	class	prob_0	prob_1	prob_2	prob_3
1	PSP26.15	Lubec Channel	44.85891	-66.98028	2021-08-26	2021-09-01	0	98%	2%	<1%	<1%
2	PSP27.46	Gleason Cove	44.97084	-67.05254	2021-08-26	2021-09-01	0	98%	2%	<1%	<1%
3	PSP21.09	Bass Hbr.	44.23824	-68.34792	2021 - 08 - 27	2021-09-02	0	98%	2%	<1%	<1%
4	PSP25.06	Kelley Pt.	44.53205	-67.56550	2021-08-27	2021-09-02	0	98%	2%	<1%	<1%

Prediction Map



Forecast Explainer

Each week, DMR conducts their shellfish sampling across the coast of Maine. These samples all make their way to Bigelow Analytic Services where they are analyzed for total toxicity. By Friday, we get all of the results back from the week and are able to run the new data through our model and make predictions for the following week.

Our forecast is site-specific, so each row you are seeing in the table represents a unique sampling location. Sampling takes place on a roughly weekly basis, however, this varies and can really be anywhere in the 4-10 day window. Therefore, each of our predictions has a start and end date, which will be 4-10 days from the last time each site was sampled.

The model outputs probabilities of each of the four toxicity classifications we are using. These classes are as follows:

Class	Toxicity Range	Description
0	0-10	Low
1	10-30	Medium
2	30-80	High
3	>80	Closure Level

The information in the "prob_3" column reports the probability of a class 3 — i.e. closure-level toxicity at that site.

Reminder: The forecast is in an experimental phase and should not be the basis for decision making at this point.

Thanks, Johnathan and Nick