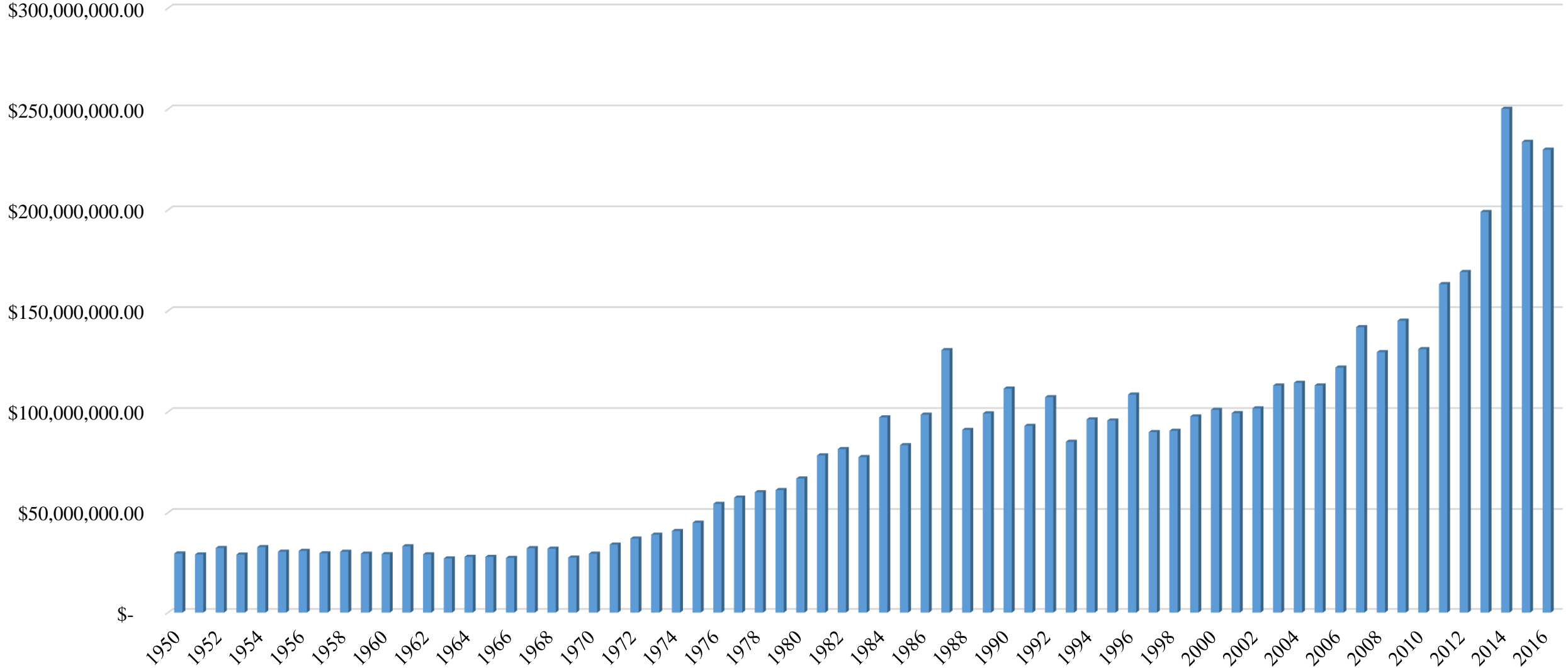


Oysters are among the highest marine shellfish production in USA.



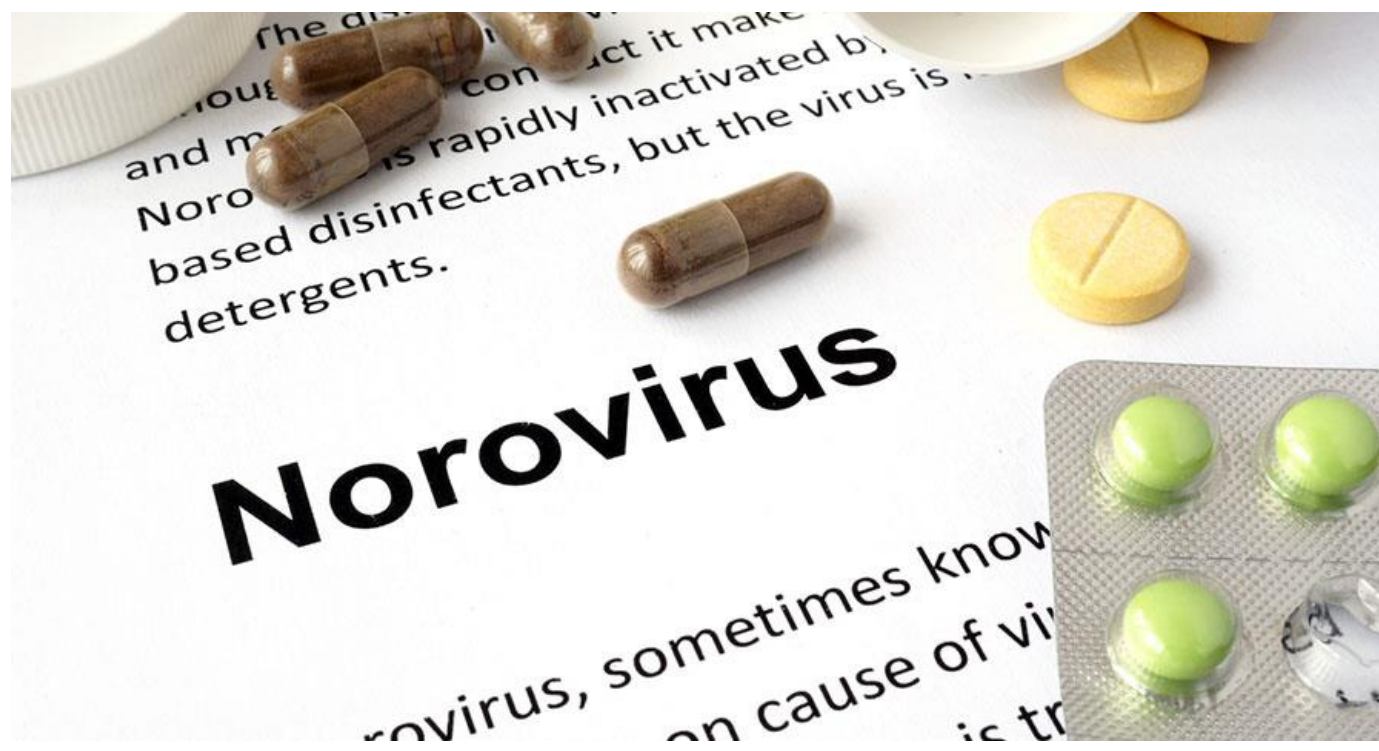
USA Oyster Commercial Landing





Thu May 3, 2018

Canadian oysters sicken dozens in California, officials say!



Low
Salinity

Low water
temperature

Heavy
rainfall

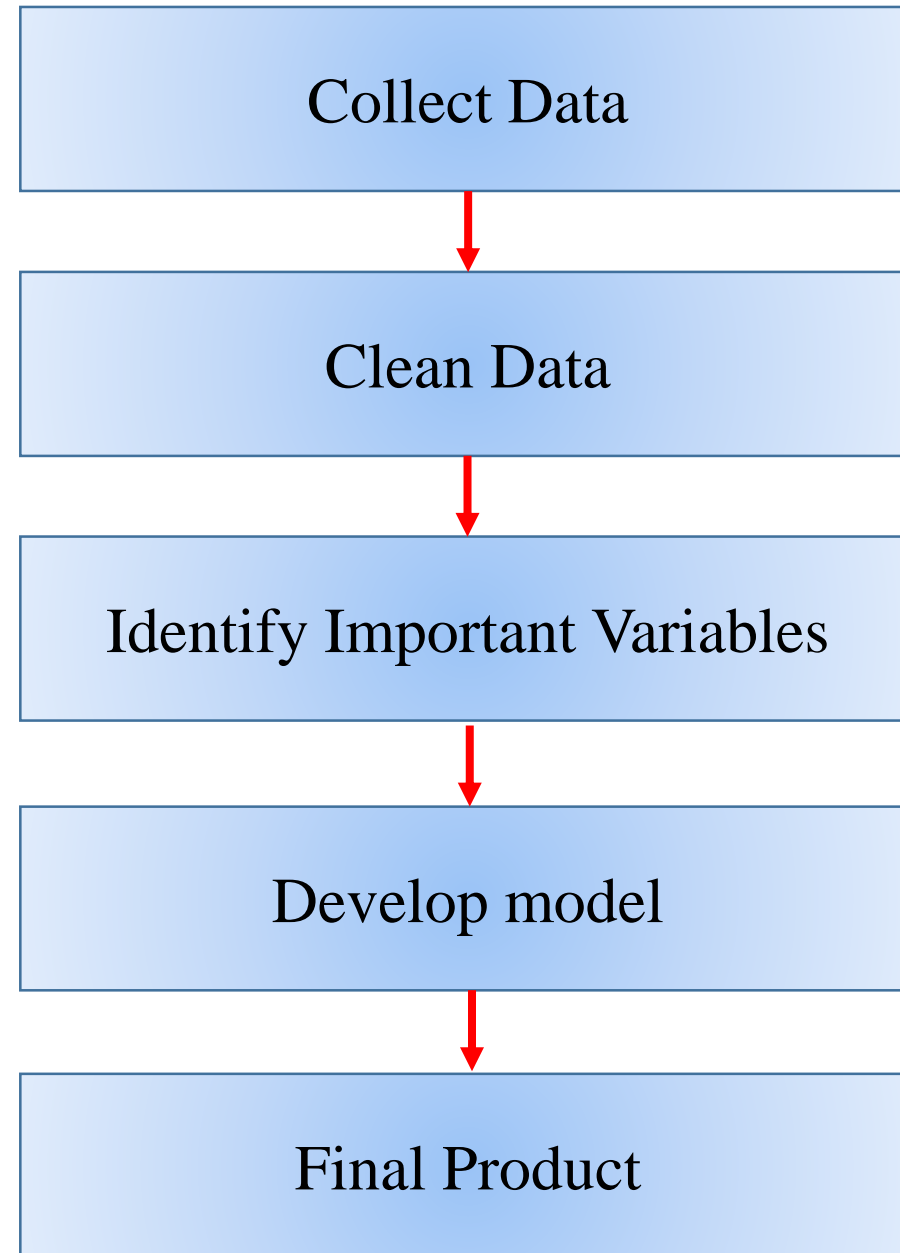


Low water
level

Low solar
radiation

114 MB so far for 9
oyster harvesting
areas

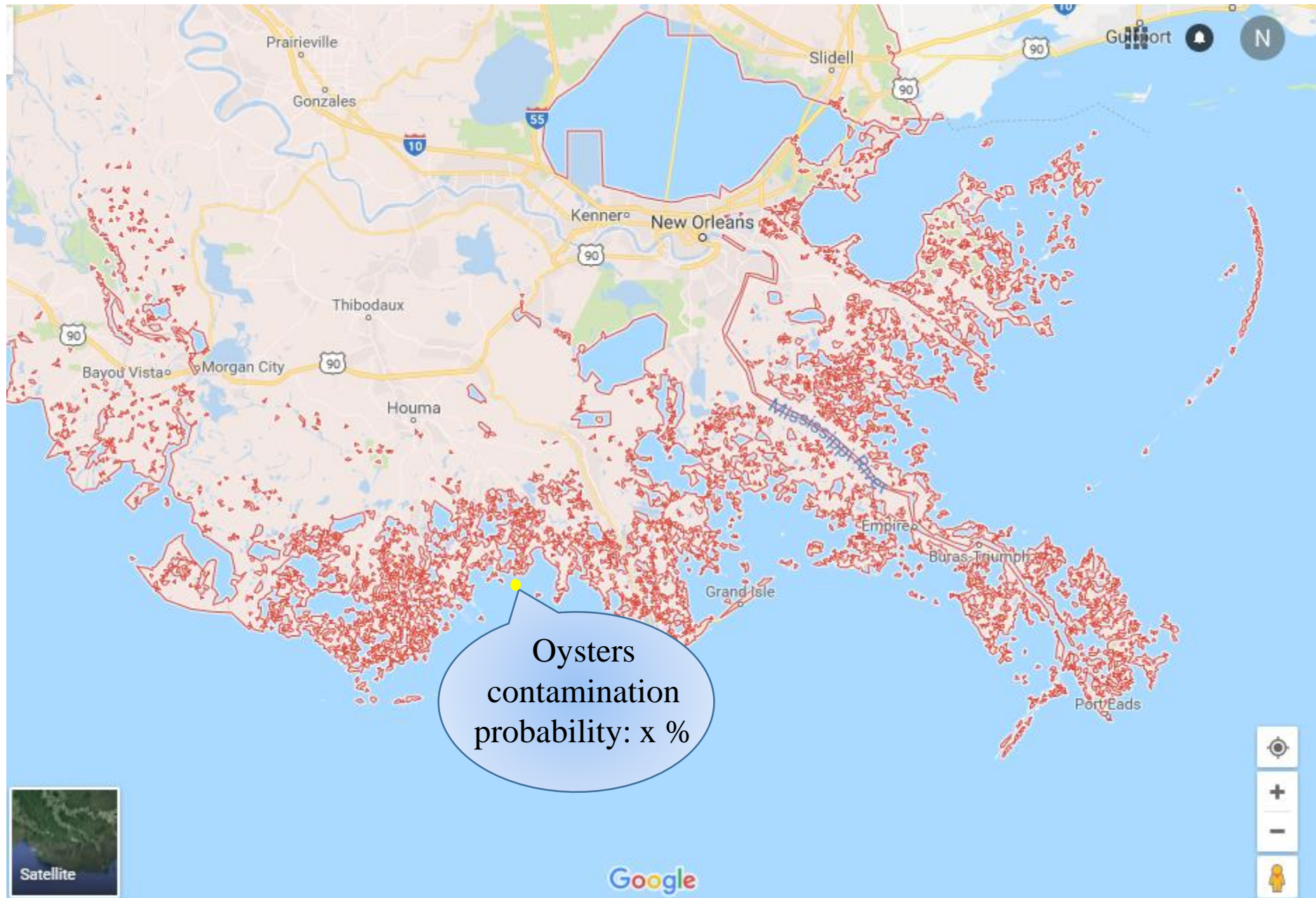
Aim to collect and
use satellite images



Challenge? missing data &
unreported outbreaks

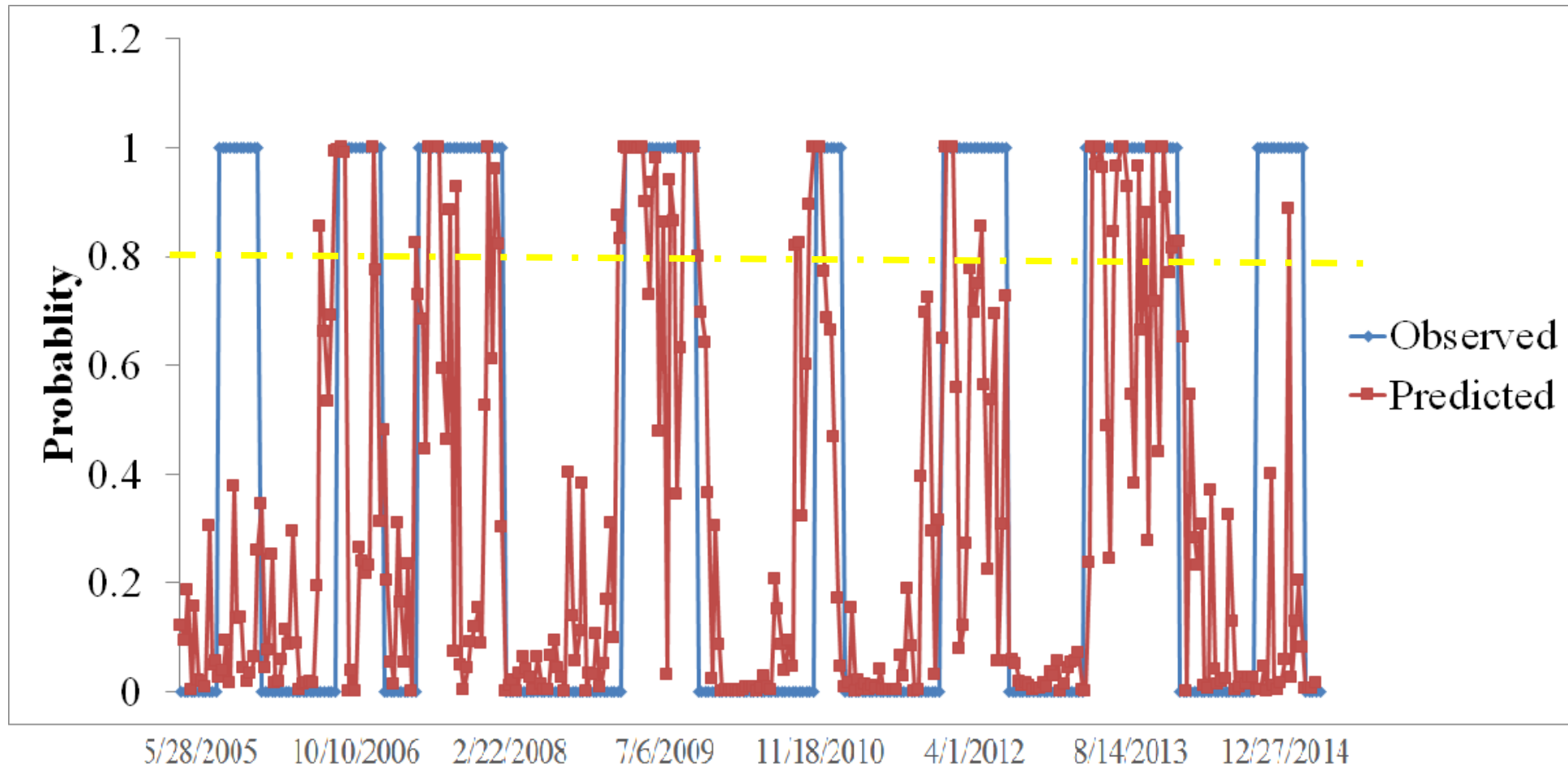
Important lags?

GP, ANN, etc.



Preliminary Results (GP)

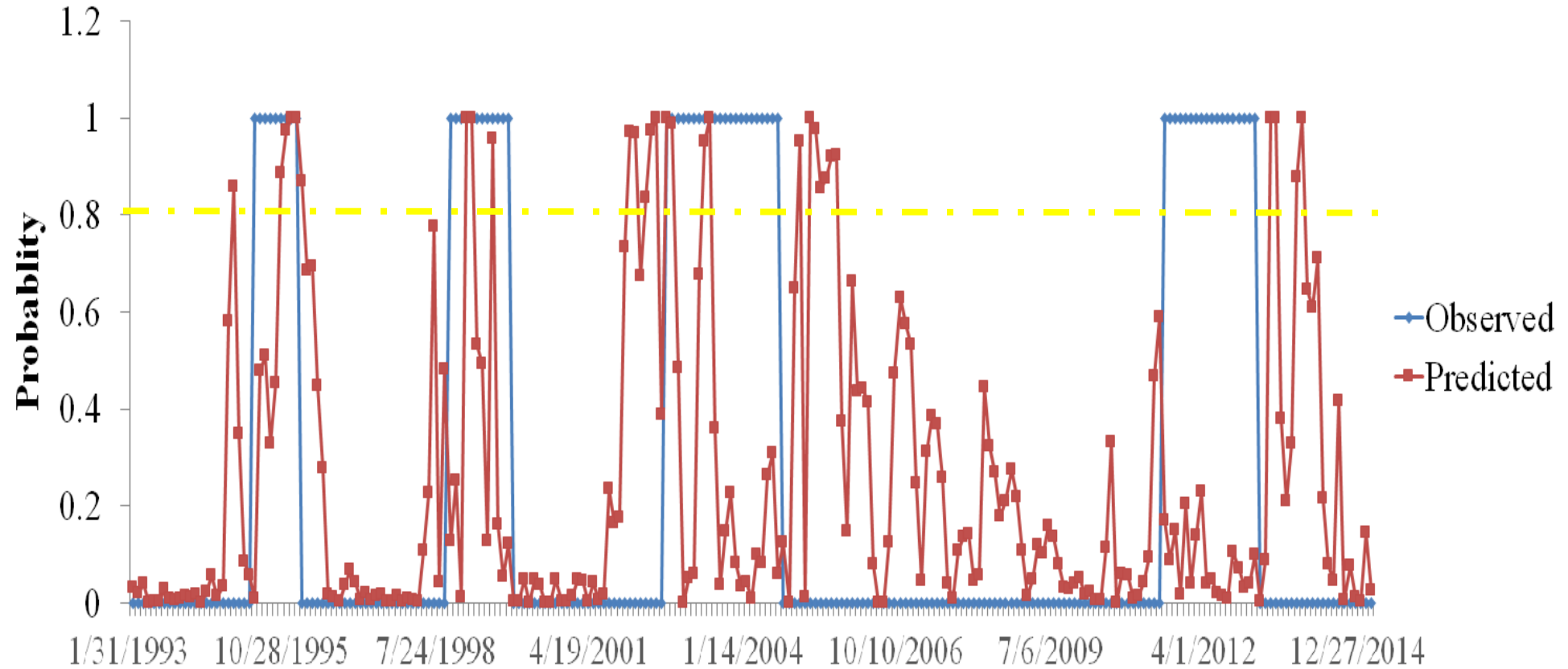
Important variables: water level and water temperature



Successfully predicted 7 out of 8 outbreaks RMSE=0.42

Preliminary Results (GP)

Test



Successfully predicted 3 out of 4 outbreaks RMSE=0.51