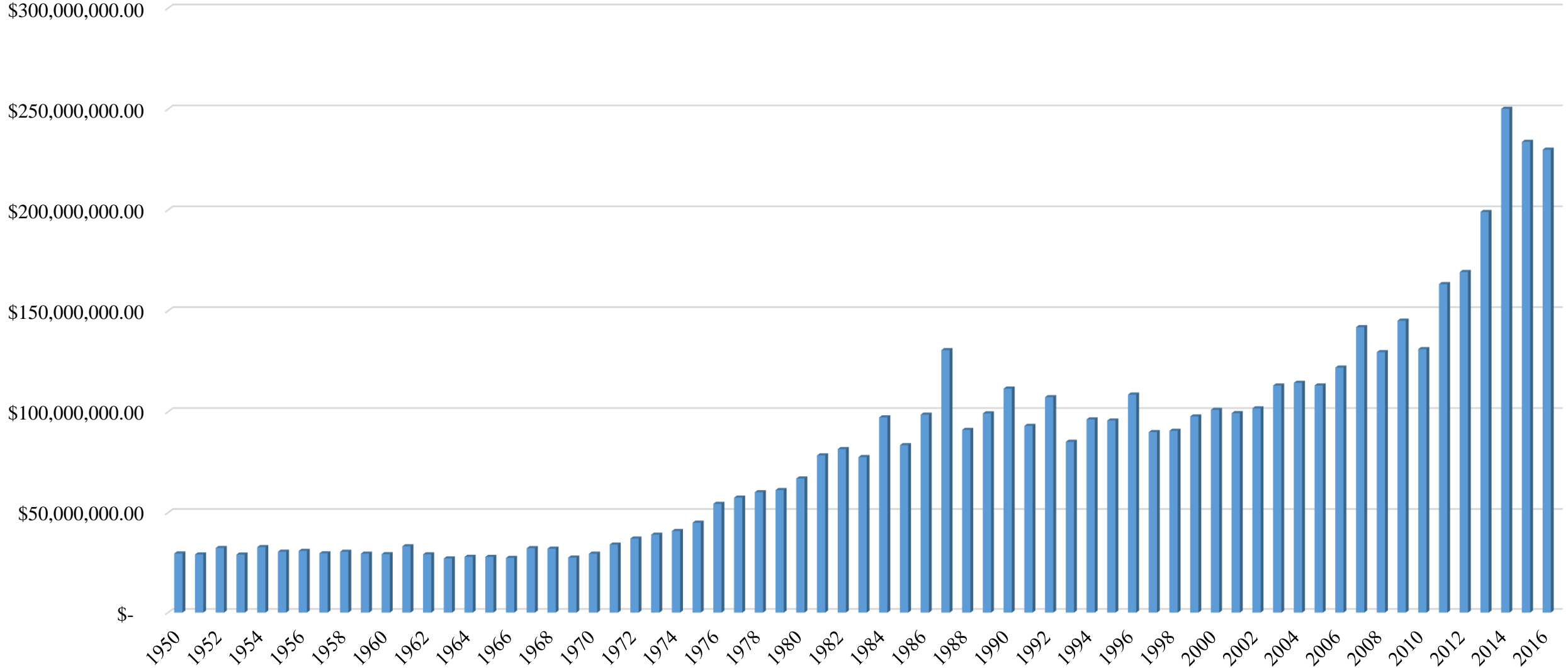


Oysters are among the highest marine shellfish production in USA.



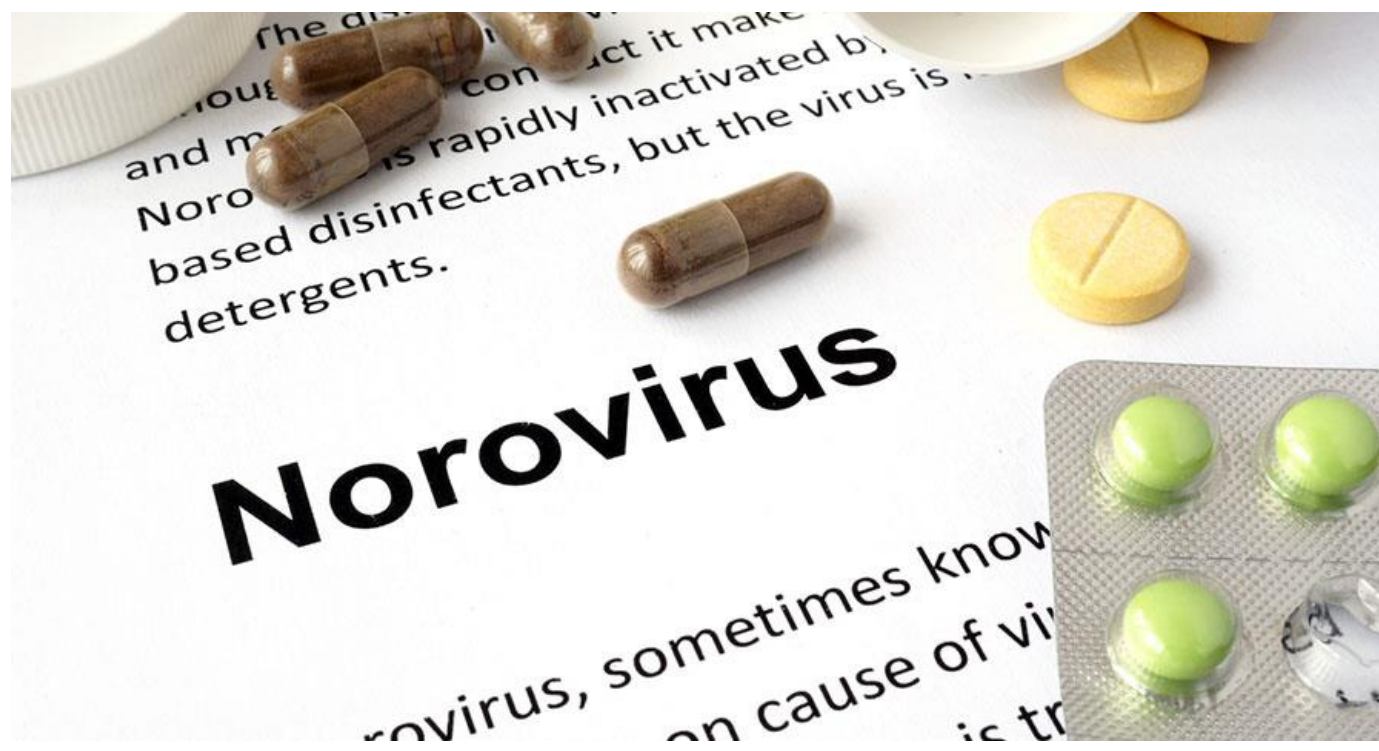
# USA Oyster Commercial Landing





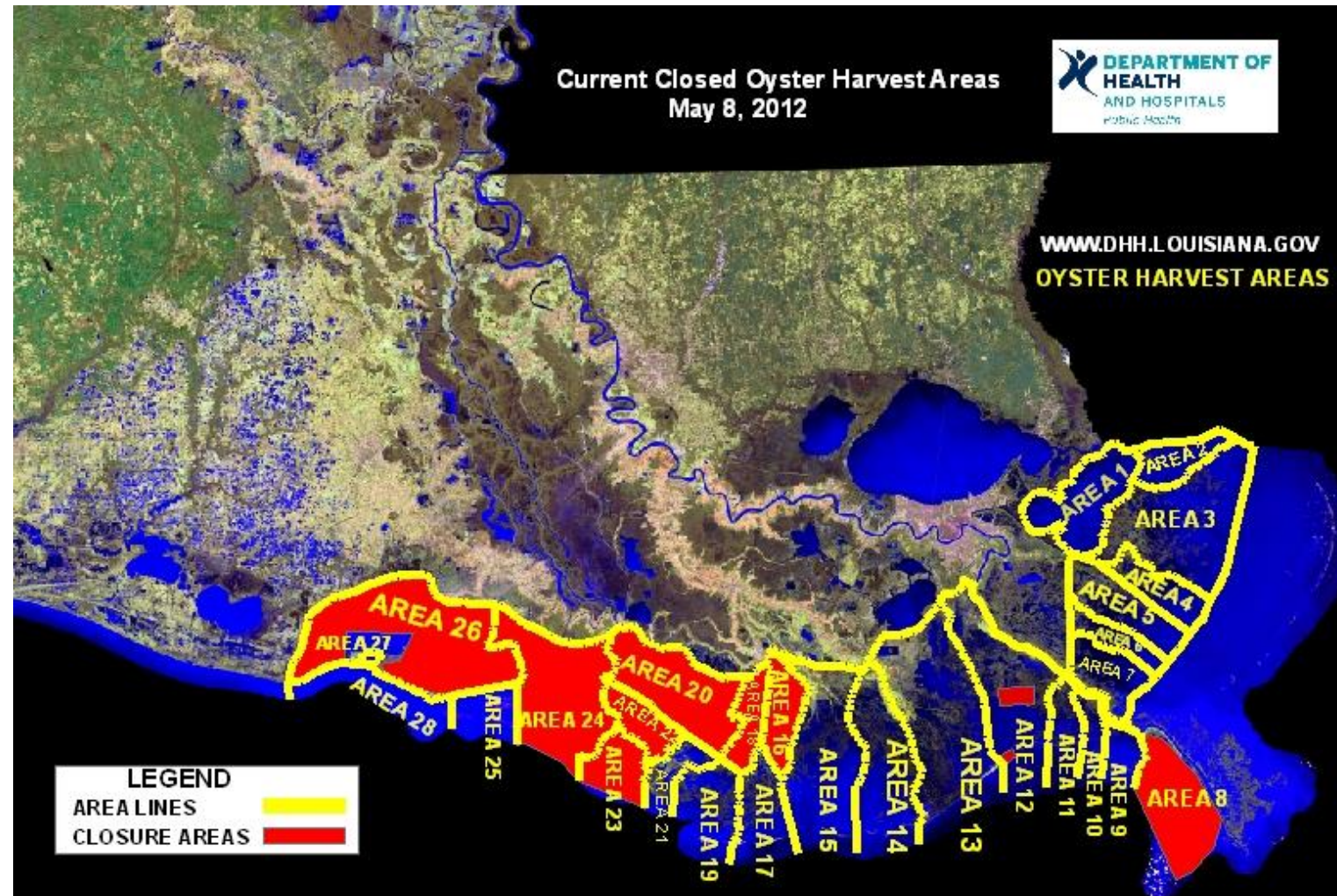
Thu May 3, 2018

# Canadian oysters sicken dozens in California, officials say!





May 08, 2012



Low  
Salinity

Low water  
temperature

Heavy  
rainfall

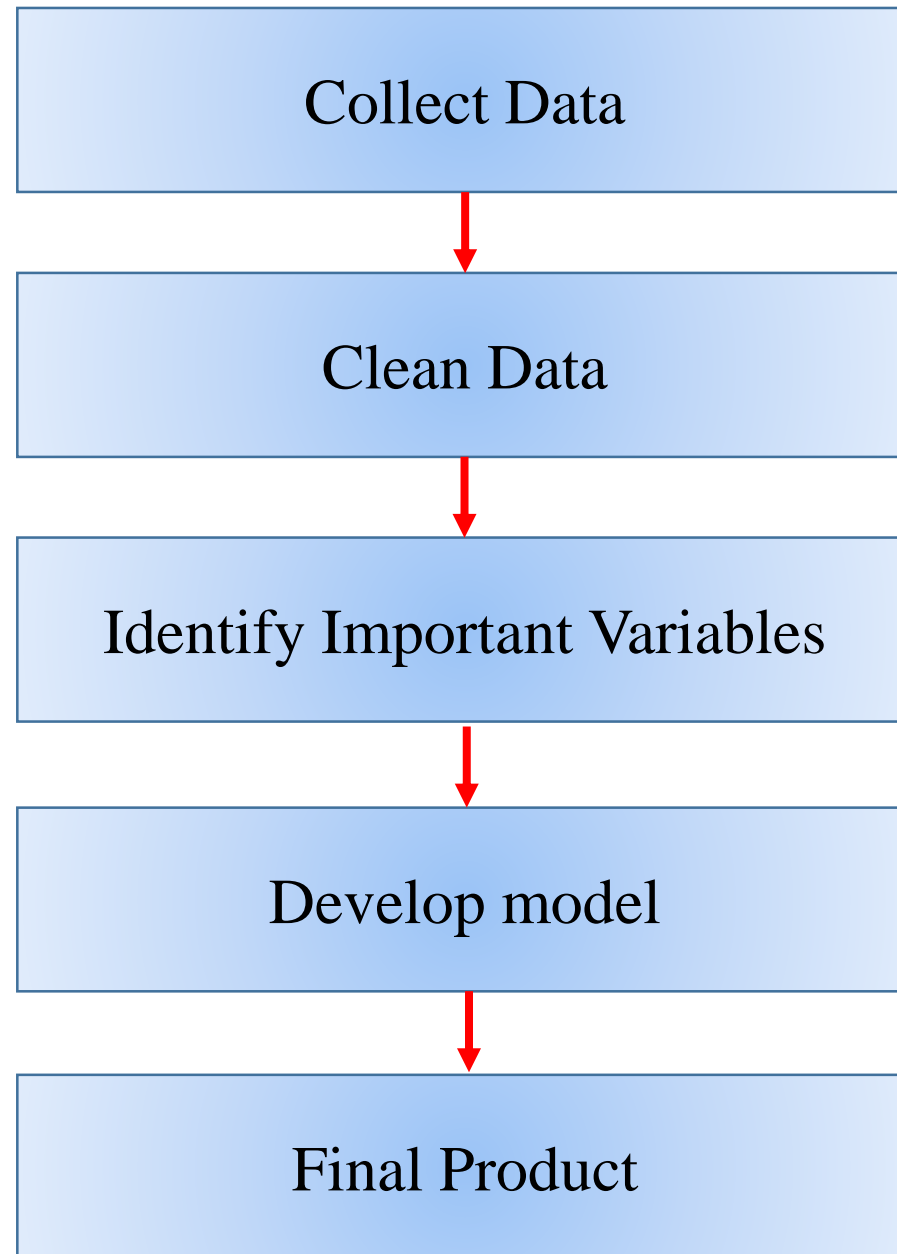


Low water  
level

Low solar  
radiation

114 MB so far for 9  
oyster harvesting  
areas

Aim to collect and  
use satellite images

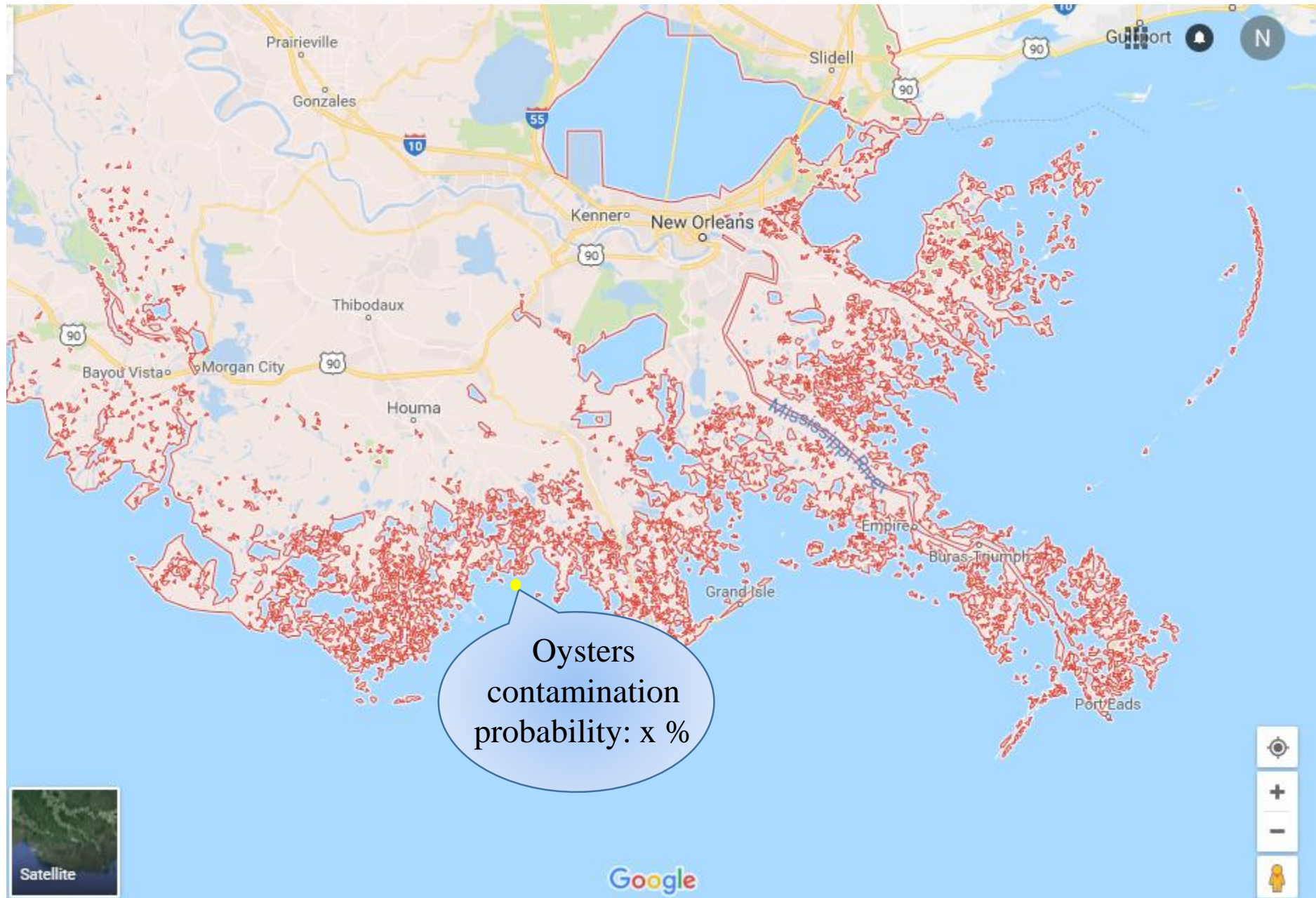


**Challenge?** missing data &  
unreported outbreaks

Important lags?

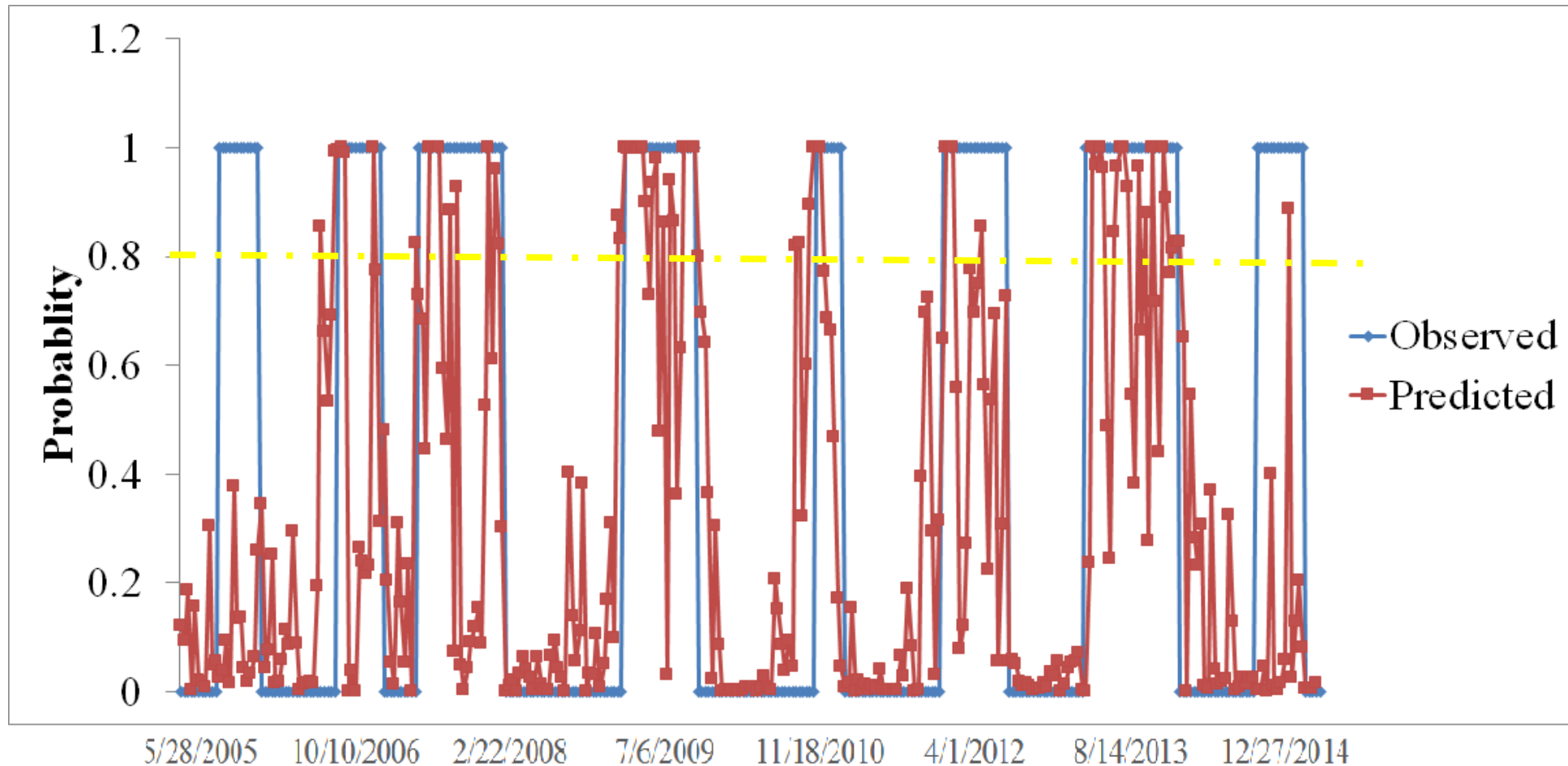
GP, ANN, etc.





# Preliminary Results (GP)

Important variables: water level and water temperature

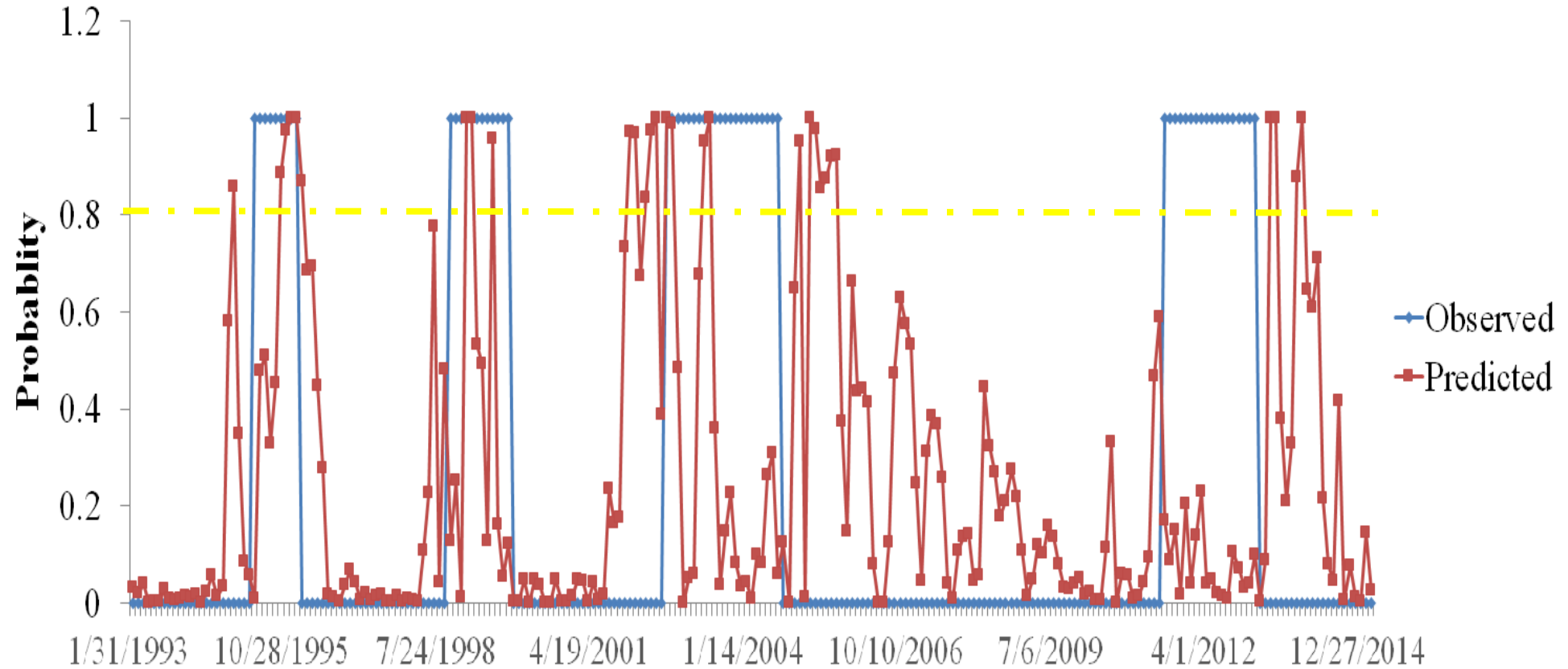


Successfully predicted 7 out of 8 outbreaks RMS=0.42



# Preliminary Results (GP)

Test



Successfully predicted 3 out of 4 outbreaks RMS=0.51