

Monitoring and Forecast Systems for Sustainable Agriculture





Alien Invasive Species



Around the World



Across the Nation



At **NCSU**, we develop research based **safeguarding systems** to protect U.S. agriculture and natural resources.

Plant Health
Safeguarding
Continuum



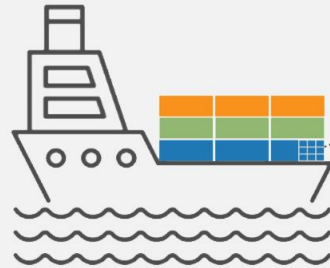
At the Border

Which Pests? When and Where?

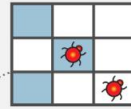


TRACE - PoPS Global

How to inspect?

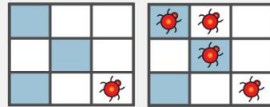


Example Cargo

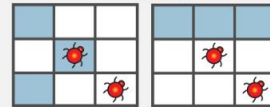


- Sampled Cargo
- Unsampled Cargo
- Contamination

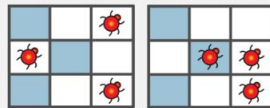
Different Contamination Rates



Different Sampling Protocols



Different Contaminant Clustering



Different Cargo Configurations

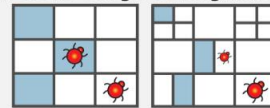
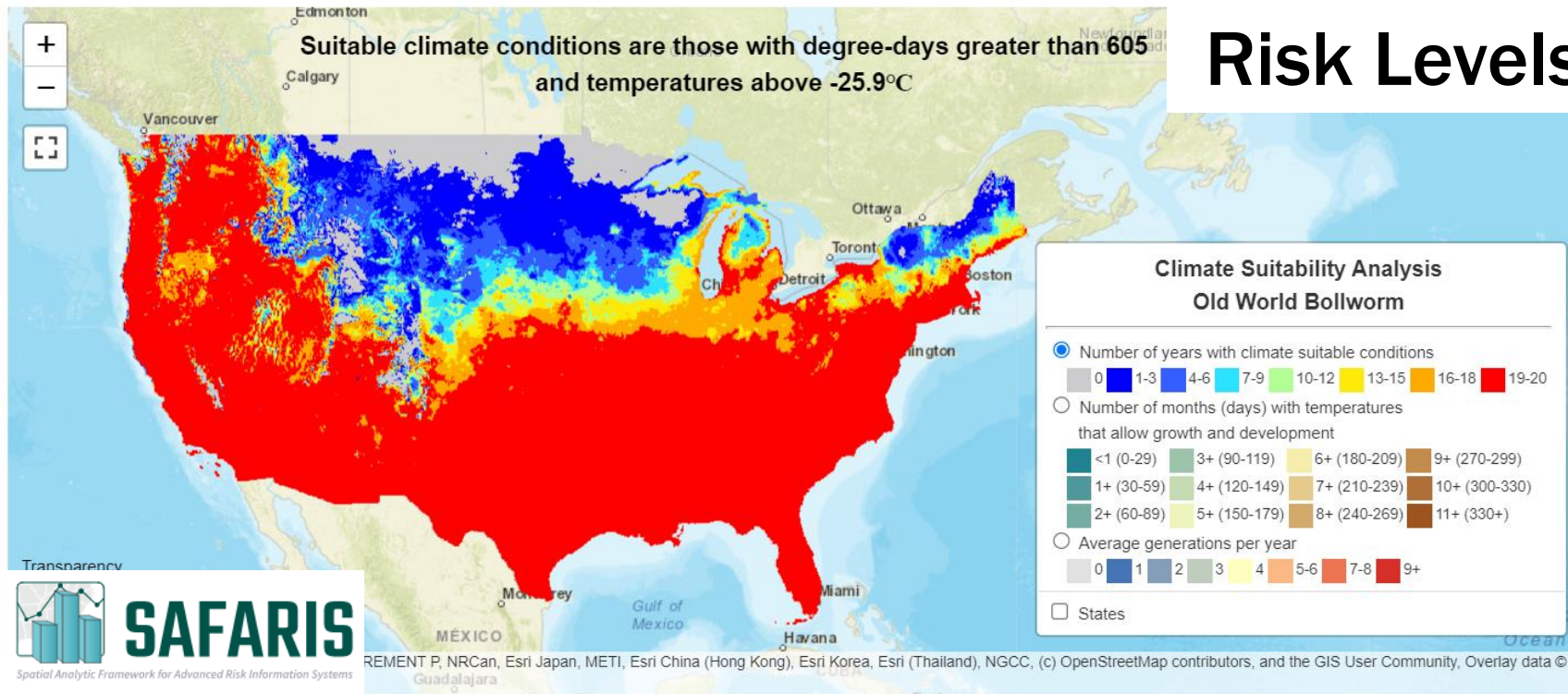


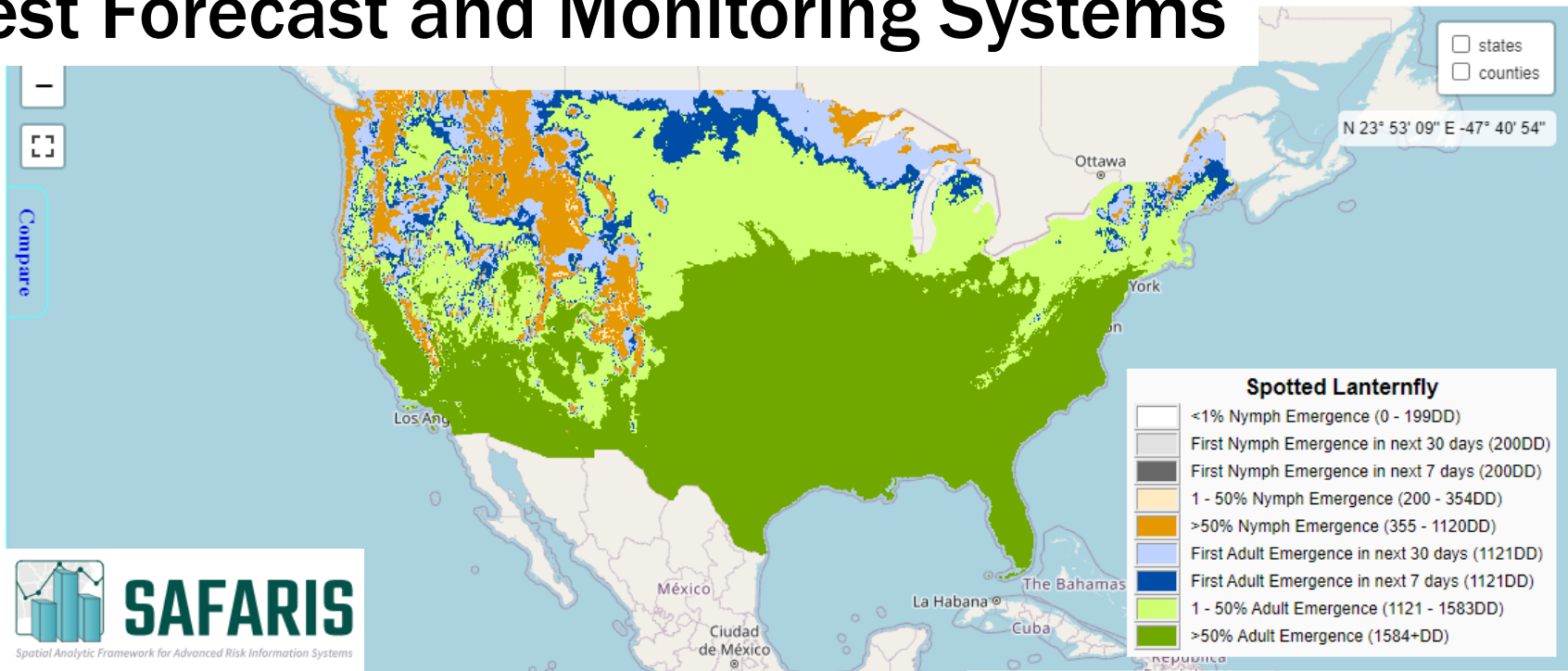
Image credit: CGA (Kellyn Montgomery, Shannon Jones, Devon Gaydos)

PoPS Border

Risk Levels?



Pest Forecast and Monitoring Systems



Around the World

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Across the Nation

