

# Hackathon - Session One JuliaEO24 – Global Workshop on Earth Observation with Julia 12.01.2024

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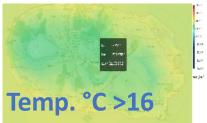


## CONTEXTUALIZATION Sistema de Alerta Pithomyces chartarum



Pithomyces chartarum

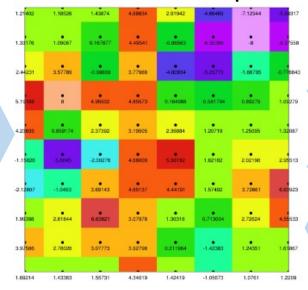
#### **Continuous Data Monitorization and Analysis**





Inform farmers of risk and effective contamination levels enabling toxicity prevention through effective avoidance, suppression and protection.

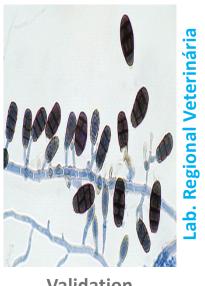
#### Real-time Risk Map



**Risk + Validated Contamination** 



#### **Spore Counts**

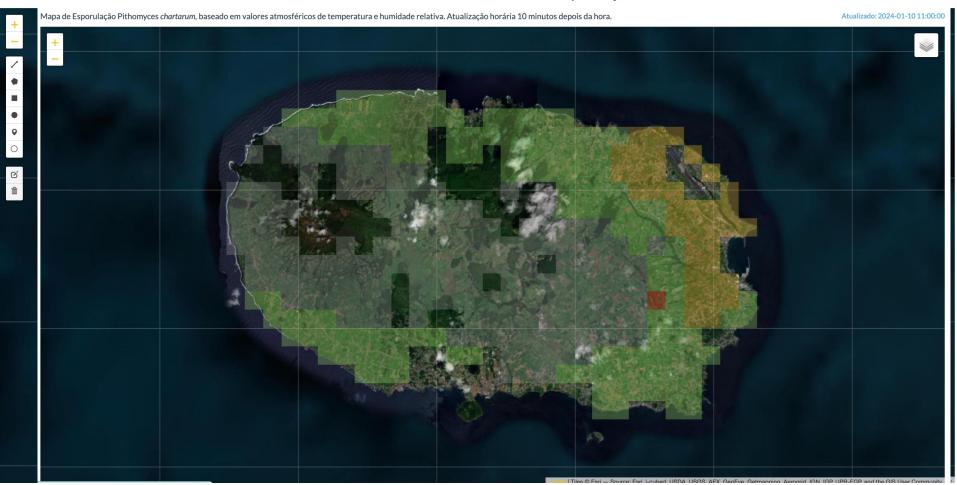


**Validation** 



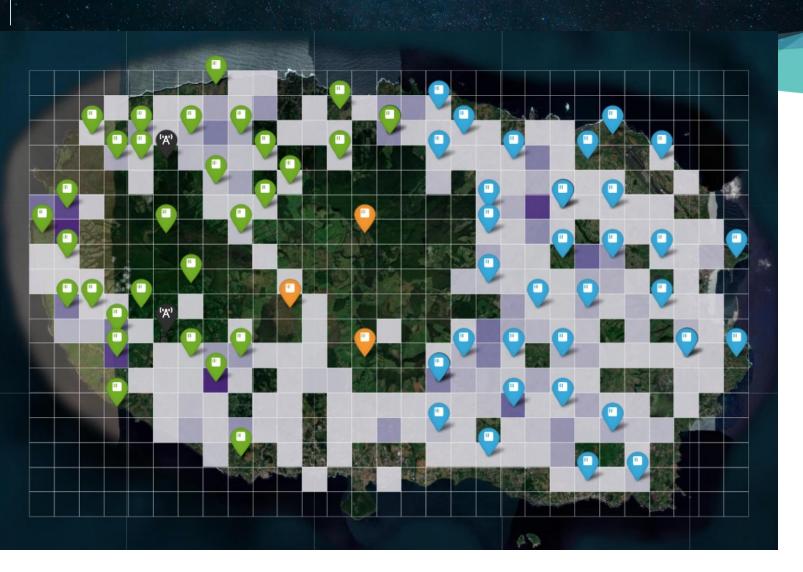
# SECTORS

#### Alertas de Risco de Esporulação





## METEOROGICAL AND RADIATION SENSORS





### HACKATHON CHALLENGES

- What are the threshold values for T°C and RH% for sporulation? Really 16°C and 90% minimum?
- How many hours of conditions (T°C and HR%) are needed to have sporulation?
   Really 72 hours?
- What other parameters can play a role in sporulation? Let's see if the radiation plays a role.