


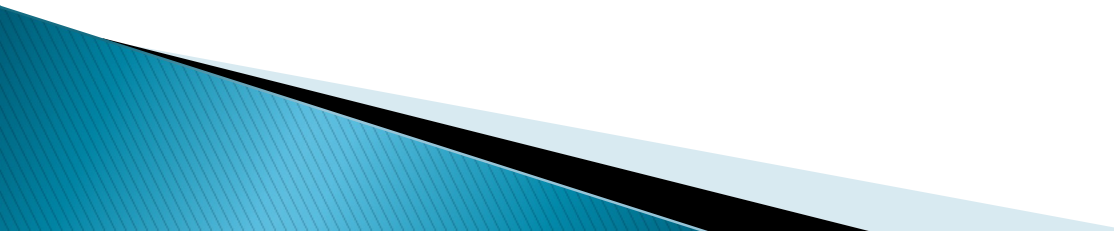
# Perspectives on Biosecurity in Ghana's Forests

Paul P. Bosu  
CSIR-

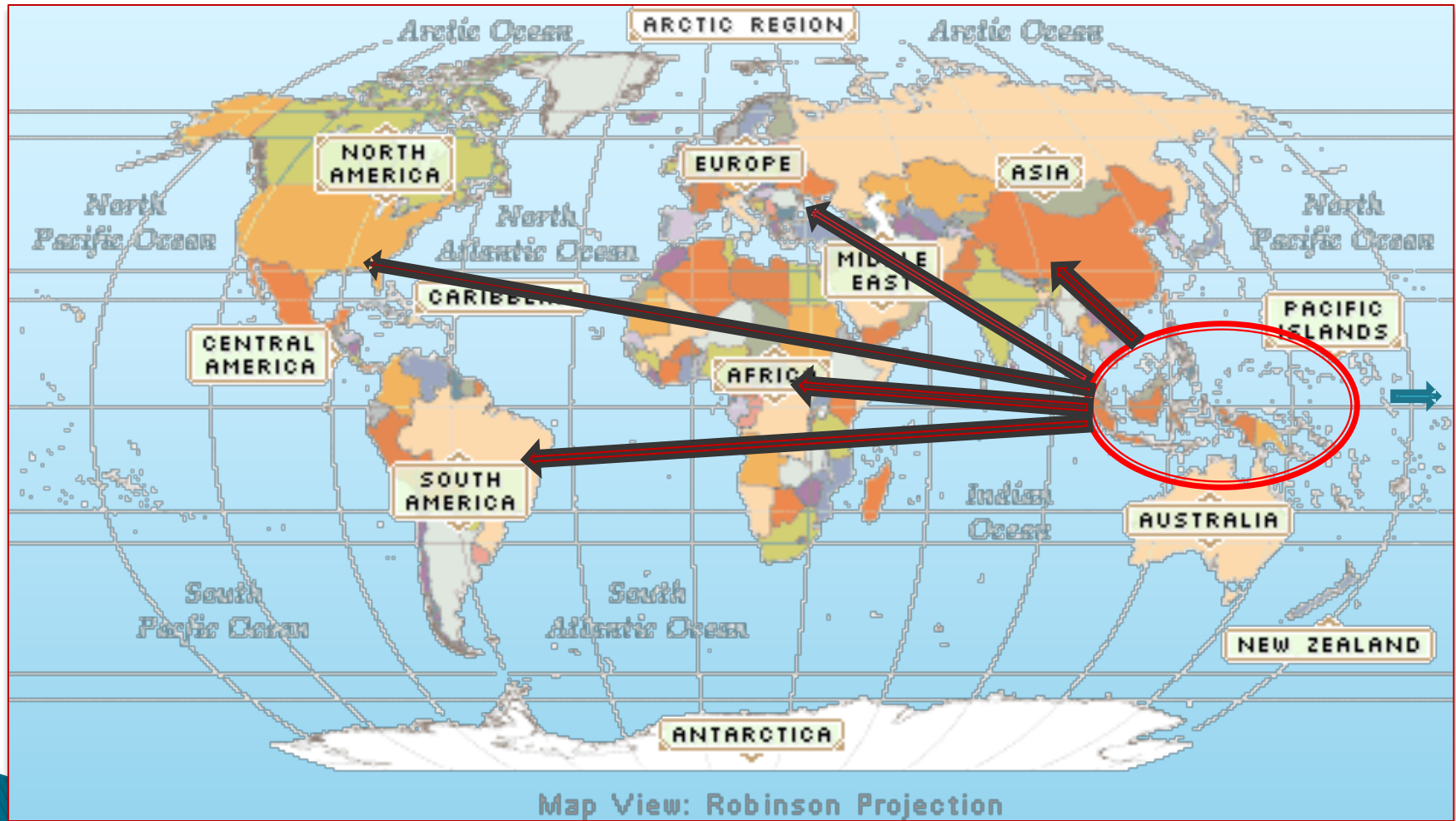
# What is Biosecurity?

- ▶ The term "Biosecurity" as used by FAO encompasses all policy and regulatory frameworks to manage risks, including relevant environmental risks, which are associated with food and agriculture, fisheries and **forestry**.
  - ▶ A related term, 'biosafety', is used in the Cartegena Biosafety Protocol, where it specifically refers to the release and cross-boundary movement of living modified organisms (LMOs).
  - ▶ Biosecurity is about RISK MANAGEMENT
- 

# What is the level of risk to Forest Resources of Ghana?

- ▶ **Quite a difficult question to answer:**
    - **Low**, if compared to temperate forests (North America)
    - **Considerable**, if viewed within the context of recent occurrences and from historical perspectives
    - **High**, if recent investments in plantation development are considered
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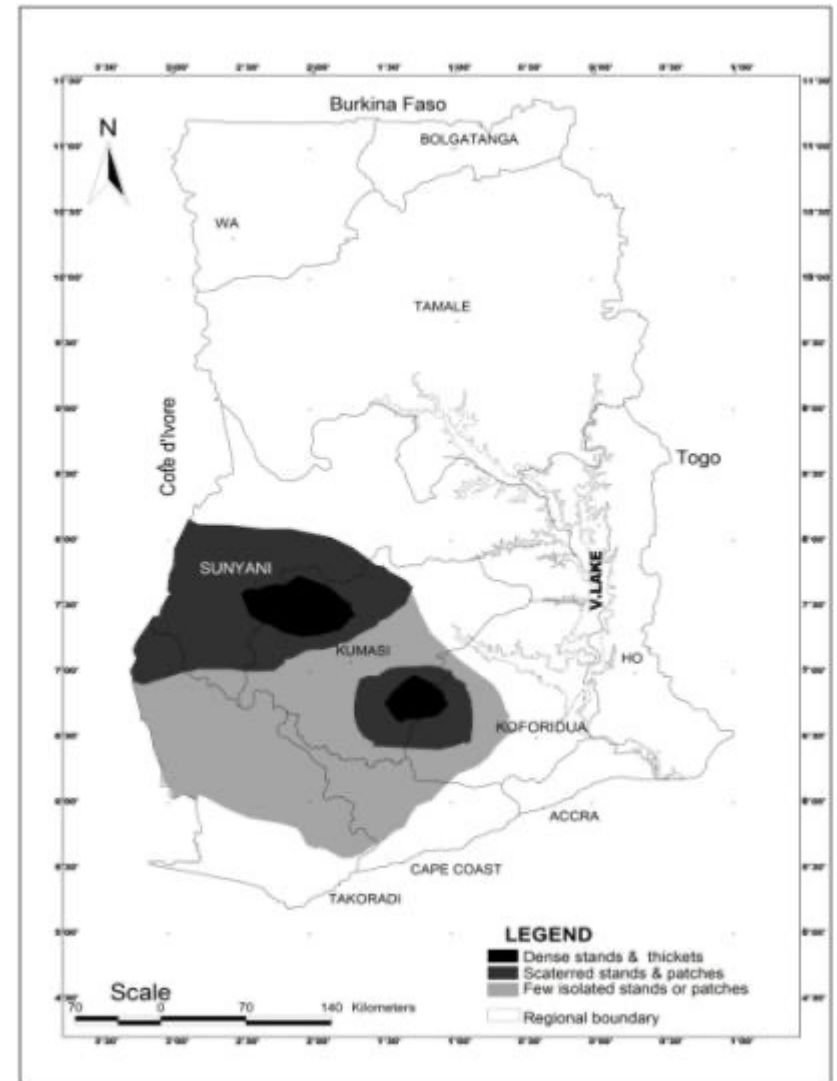
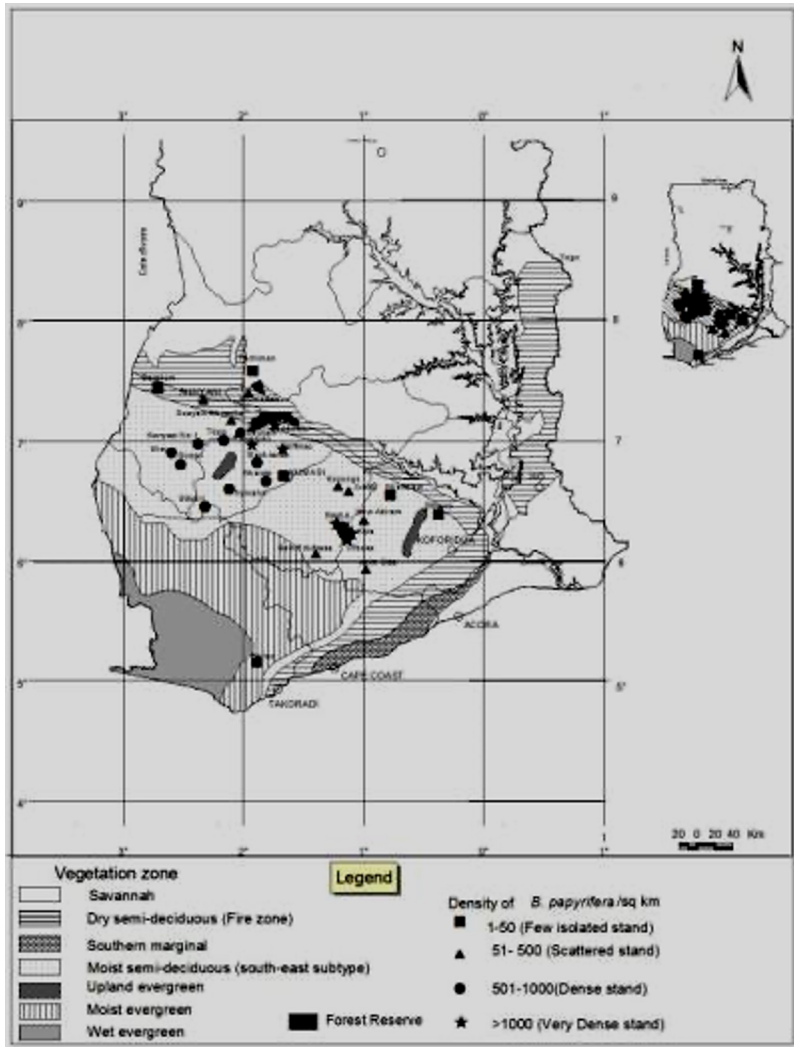
# Occurrence of *Broussonetia papyrifera* world wide



# In Africa...







2007

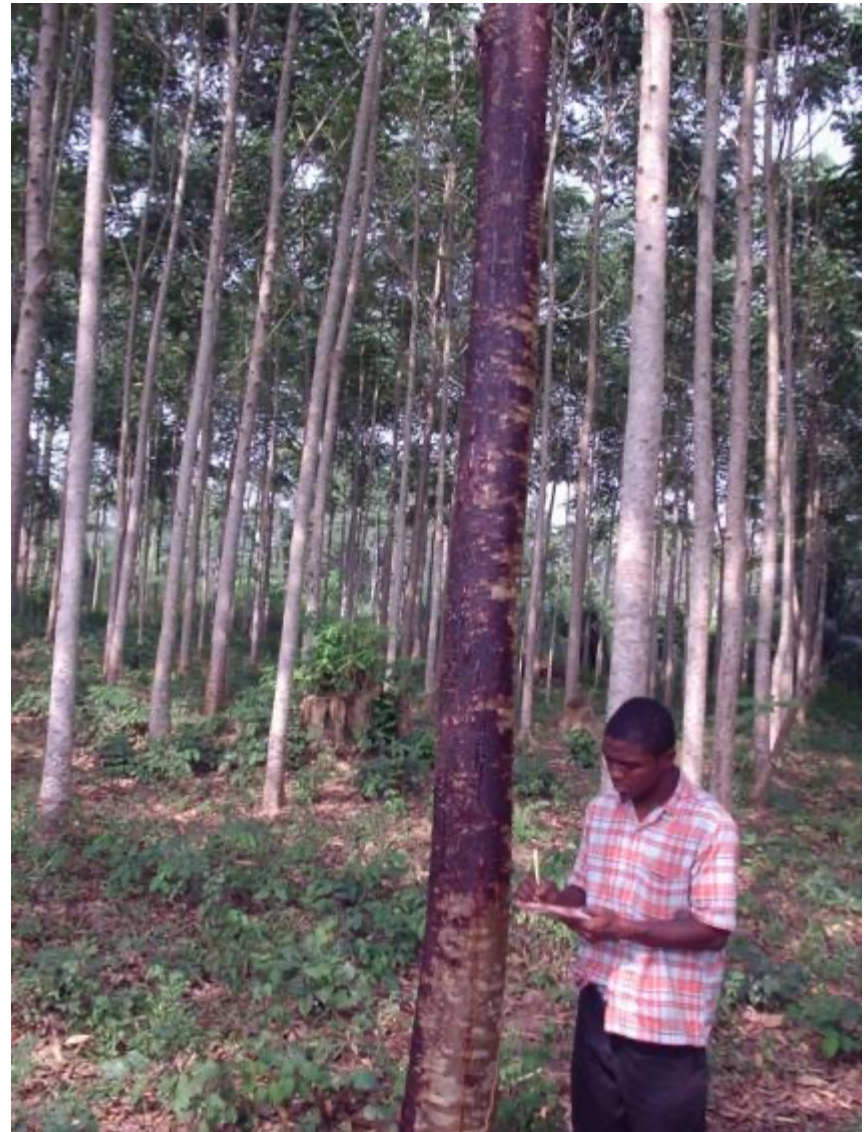






# Cedrela stem canker

- Anhwiaso South F.R.
- Worobong South F.R.
- Afram Headwaters
- Mesebam nursery





# Teak Dieback





Yaya F.R





# Teak disease – Opro F.R. (2008)









**Leaf rolling**



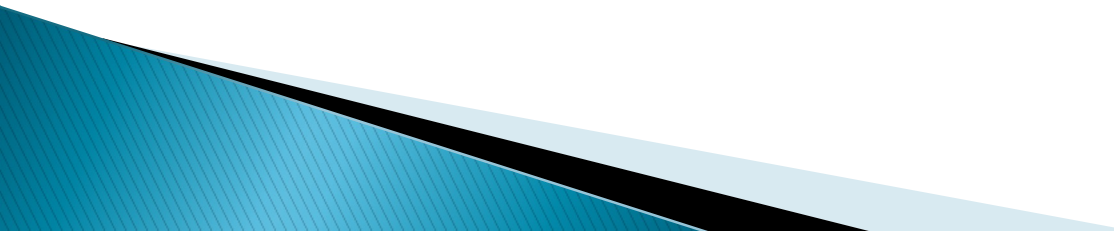


# Kwamisa F.R. (2008)





THE WRITINGS ARE ALREADY ON  
THE WALL



# Sheanut tree defoliator –2004





# Caterpillars ravage Liberia (BBC New: January 2009)

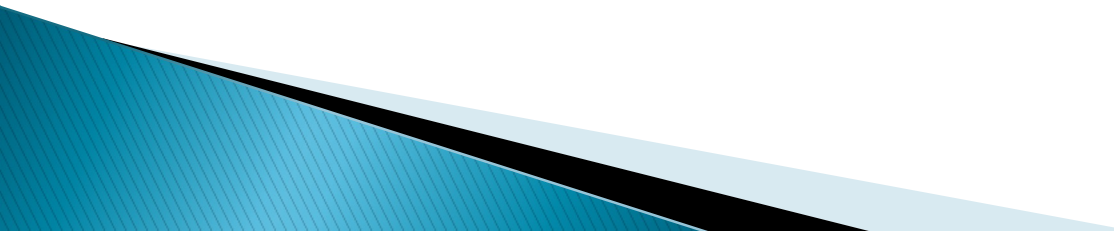
Liberian President Ellen Johnson-Sirleaf has declared a state of emergency in response to a plague of mysterious crop-destroying caterpillars. The invaders were thought at first to be armyworms – but field investigators have now cast serious doubt on this diagnosis. So what exactly are these creatures and what can be done to halt them?

And today 2022?





# Way forward

- ▶ Consider the significance of forest pest protection in all forest management operations, projects and programmes
  - ▶ More forest protection experts
  - ▶ Routine forest health monitoring
  - ▶ Education, sensitization and engagement of tree growers/communities on pest issues
  - ▶ More support research into pest management
- 

**THANK YOU**

