

## FRA 2010 Global Remote Sensing Assessment of Forests A New Approach



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Kotka V, June 2006

## Previous Remote Sensing Surveys



RSA 2010



## Strengths of surveys

- Complementary to national reporting
- Independent, consistent picture over time and space ... across national boundaries
  - Gross changes
  - Land use dynamics ... causes of degradation, fragmentation, deforestation

RSA 2010



## Possible improvements

- Global
- Decentralized & increase in-country capacity
- Increase precision of statistics
- Offer national reporting support to countries
- Add wall-to-wall forest maps
- Set up "information framework"

RSA 2010



## Proposed RSA objectives

- Regional, biome and global monitoring of forests 1975-1990-2000-2005
  - area change statistics,
  - information on land use dynamics
  - forest maps
- Establish an information framework in support of monitoring of forests, land use and the environment to facilitate further monitoring applications and assist national monitoring efforts

RSA 2010

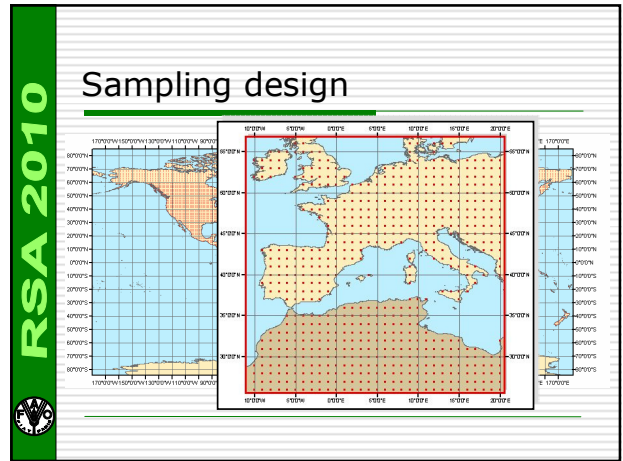
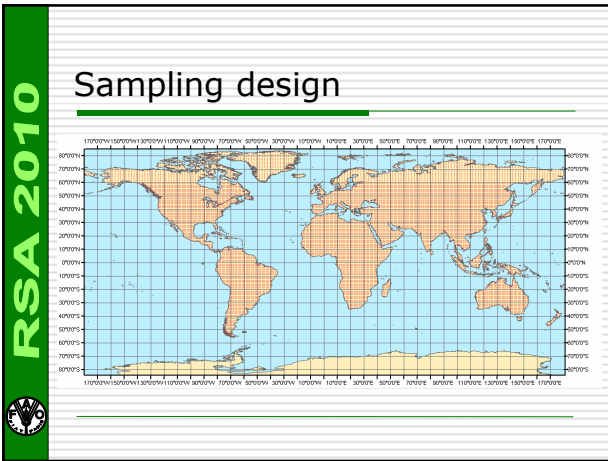


## Proposed approach

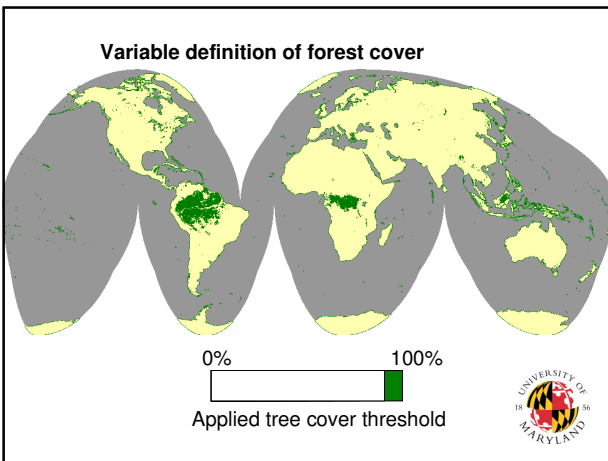
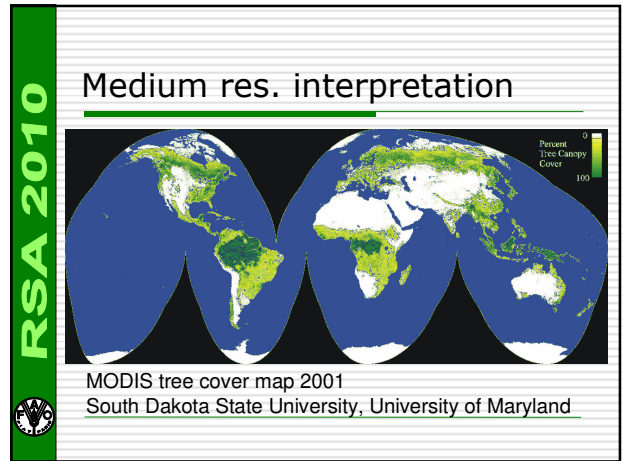
- High resolution sampling to produce area change statistics and change matrices on
  - Forest extent, forest characteristics
  - Forest cover
- Full coverage medium resolution monitoring of forest cover and cover changes

RSA 2010





- RSA 2010**
- ### Implementation
- Ca. 9,000 sample units, 4 dates
  - Centralized pre-processing & website
  - Regional training workshops
  - Interpretation by national / regional teams
  - Regional validation workshops
  - Centralized statistical analysis



- RSA 2010**
- ### MODIS interpretation
- In progress
    - High resolution samples can calibrate / validate VCF
    - Annual global updates
  - Transfer to interested countries for national monitoring

### Information Framework

- Serve multiple purposes
- Serve many user communities
- Reduce monitoring cost
- Free access to input data & results



### Collaboration

- Countries: national agencies, regional hubs
- FAO
- UNEP
- USGS/EROS data center
- Universities, JRC
- WRI
- Others?



### Questions for working group

- Is the RSA useful & needed?
- RSA scope? Variables to be assessed?
- Partner institutions?
- Decentralized implementation & Information Framework?



### Next steps

- Kotka recommendations to COFO
- Expert consultation on RSA method
- In expectation of COFO mandate for FRA 2010:
  - Prepare funding proposal
  - Raise funds
  - Prepare project document
  - Start RSA test phase



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