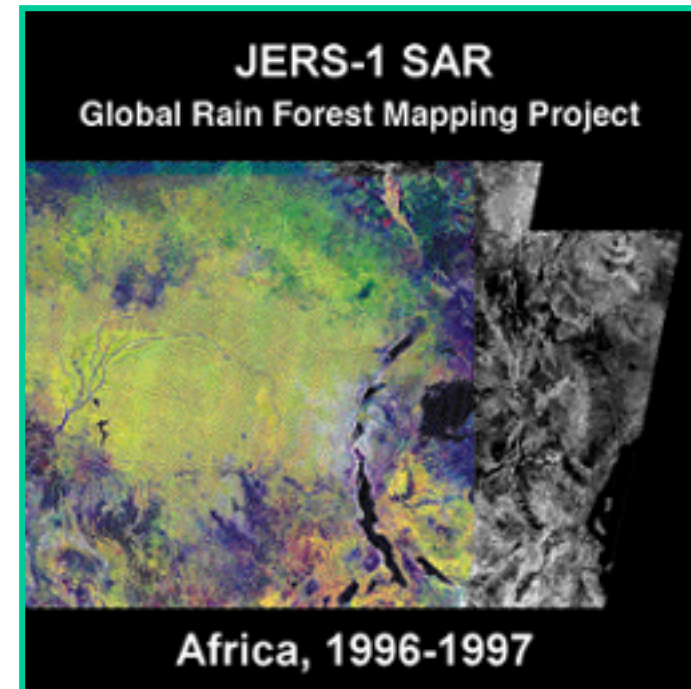


# Study of Land-Use and Deforestation In Central African Tropical Forest Using High Resolution SAR Satellite Imagery

P.I. Sasan Saatchi, Jet Propulsion Laboratory

- Use high resolution satellite imagery to map areas of forest clearing and general land cover types for the entire Central African tropical region.
- A combination of radar backscatter and texture analysis of images acquired by the JERS-1 SAR instrument are used to classify land cover into five categories; forest, non forest, savanna, flooded forest and open water.
- Technique developed for mosaicking images minimizes error propagation
- High resolution imagery and large scale mosaic allow for enhanced visualization at both fine and coarse scale
- Biodiversity assessment, identification of unique places
- Domestic/regional agricultural reform
- Infrastructure for data collection of for non-annex 1 countries under Kyoto Protocol



JERS1 mosaic @ 50 m resolution validation site, Gamba, Gabon

