Applications of RS



M.H. Mohamed Rinos
Lecturer in GIS

Spatial Information Technologies

Geospatial technology is a multi-disciplinary activity which deals with

- Remote Sensing
- Geographical Information Systems
- Global Positioning Systems







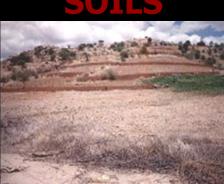


ENVIRONMENT LANDUSE

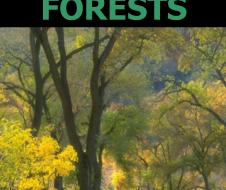
WATER

AGRICULTURE

ARCHIOLIS OF REMOTE SENSING



FORESTS





OCEANS



APPLICATIONS OF REMOTE SENSING

- Sun synchronous

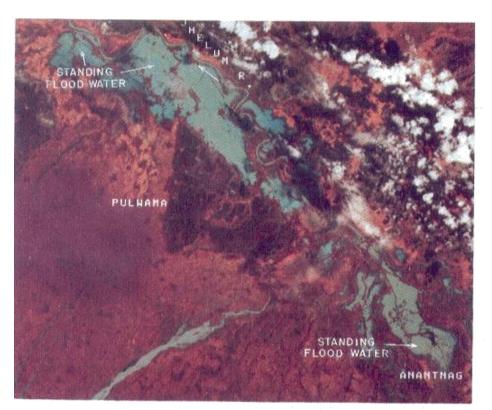
Resources status on Global, regional and local level **Agriculture Forestry and Biodiversity** Geology, Structure and minerals Landform Land use/land cover Soil **Water Resources Disaster Urban planning**

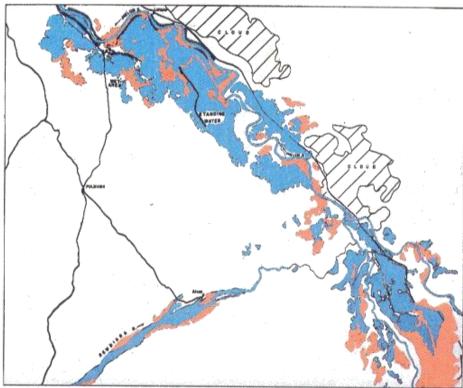
APPLICATIONS OF REMOTE SENSING

- Geo-stationary

Weather forecasting

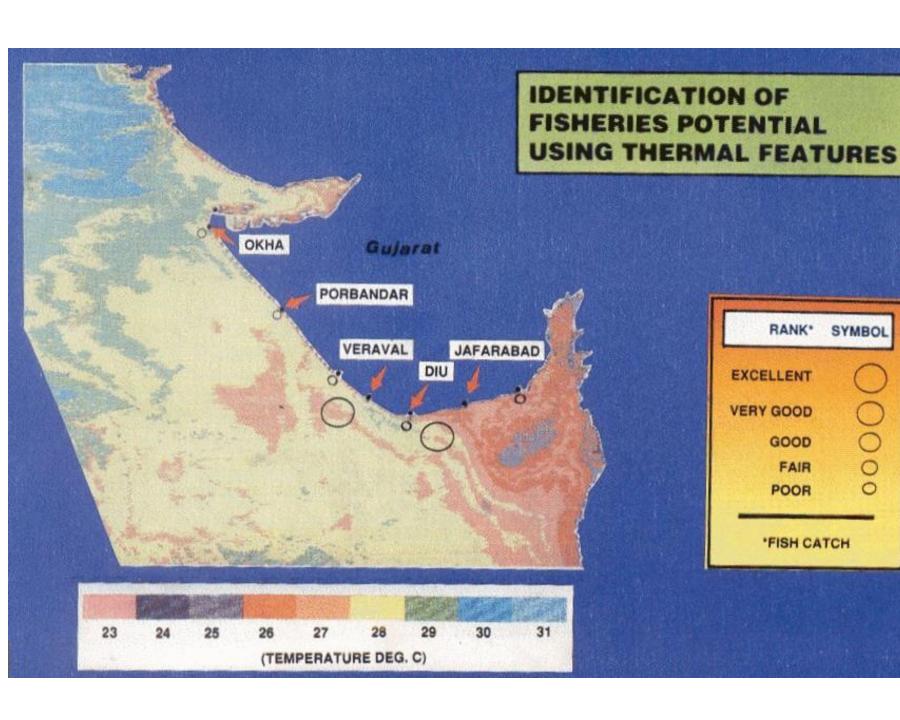
Communication and broadcasting

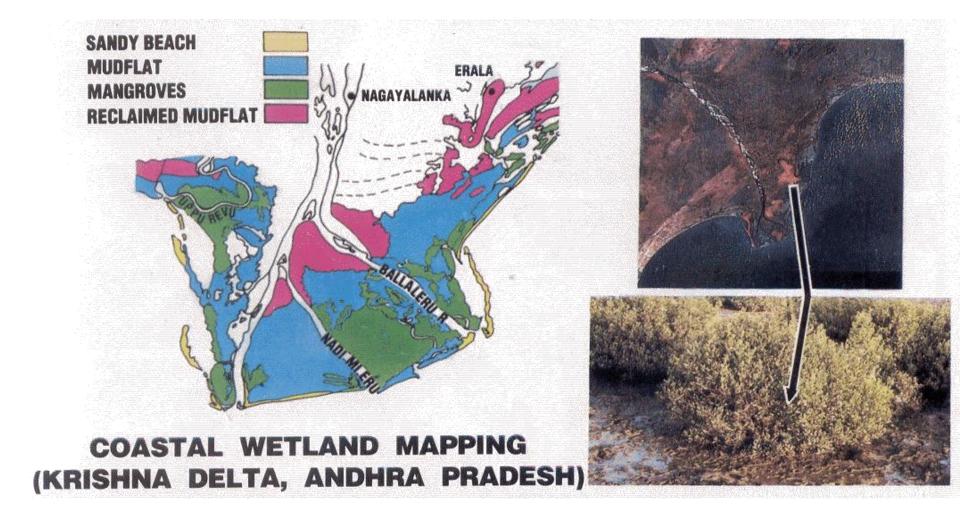




FLOOD MAPPING - JAMMU & KASHMIR (13 SEPT., 1992)

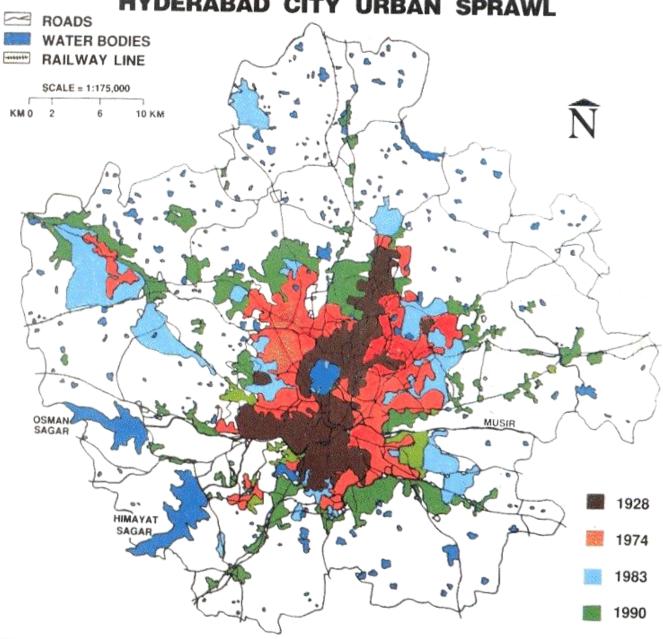
☐ STANDING WATER ☐ WET AREA







HYDERABAD CITY URBAN SPRAWL



CROP ACREAGE - MURADABAD DISTRICT, U.P. RICE SORGHUM SCANE FOREST Muradahad 4 WLOG SCRUB SAND

Golden Coast Resort: A Historical Perspective



Golden Coast Resort: Morning of the Tsunami



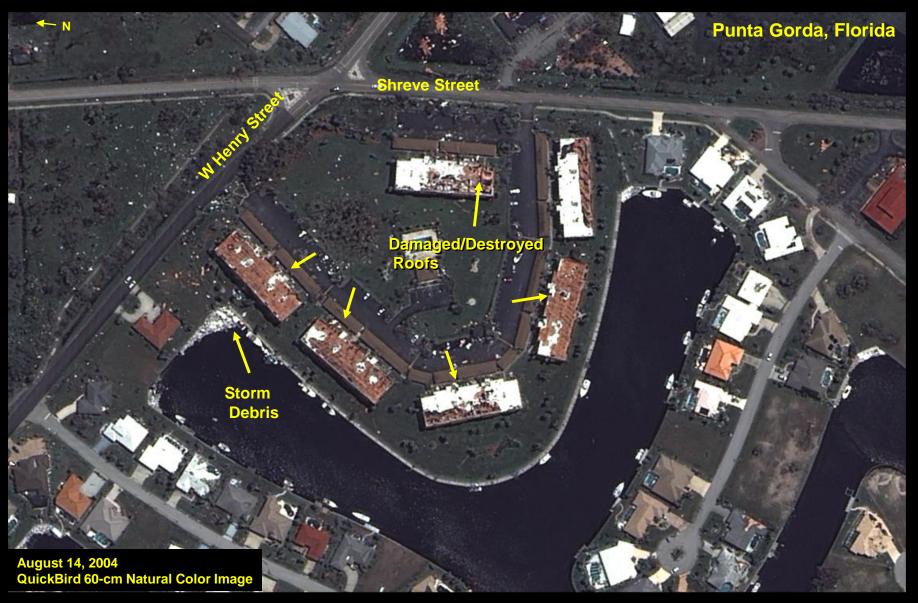
Damage Assessments: Coastal Village (Before)



Damage Assessments: After the Tsunami



Damage Assessments: Hurricanes and Typhoons

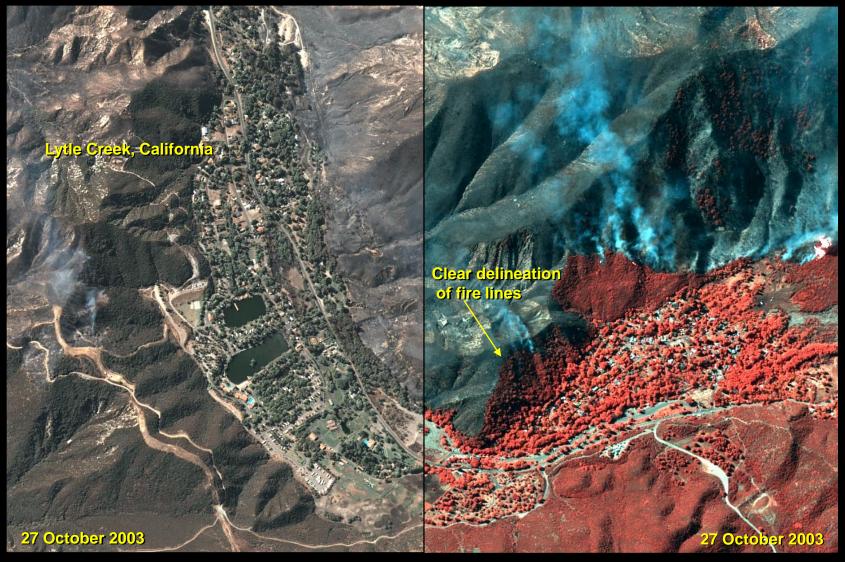


Damage Assessments

- •Emergency relief is provided by the US Army Corps of Engineers to homeowners with damaged roofs.
- •Blue plastic tarps provide a temporary repair until permanent repairs can be made
- •QuickBird imagery can readily identify those homes that have been repaired



Damage Assessments: Forest Fires



Agriculture Applications

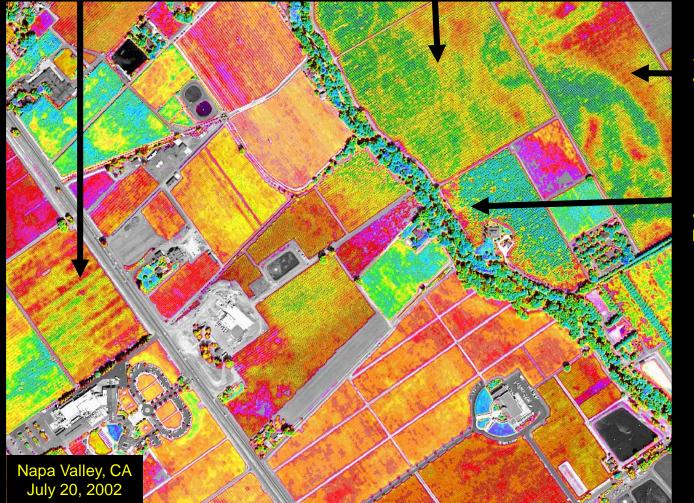
Finding New Methodologies to Solve Age-Old Problems

• An overview of what is really happening

Old Field Boundaries

• The real cause of those differences

• The real cause of these differences

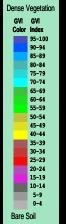


Soil Differences

· blame it on mother nature

Diseases

· who pays for the vines to be removed?



Blue colors show the densest canopy **Grey colors** indicate bare soil