

REMOTE SENSING APPLICATION ON ENVIRONMENTAL ISSUES



Sand storm, water and air pollution, global warming and desertification are nowadays the most common environmental issues that can influence our cities and countries negatively, so it is necessary to have systems that can monitor and study this kind of events. Studying and predicting environmental issues is possible to prevent disasters and diseases in human living conditions.

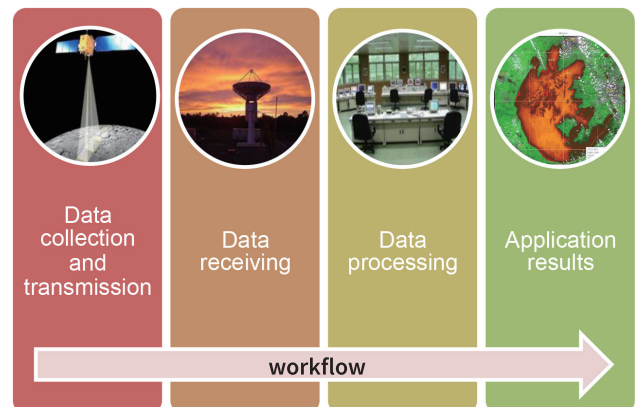
OUR PROPOSAL

Using together Remote Sensing (RS), Geographic Information Systems (GIS), Global Navigation Satellite Systems (GNSS) technologies is possible to identify, monitor and forecast environmental problems efficiently.

SSTC's has develop a Typical Application System (TAS) that combines all this technologies and is qualified to generate environmental studies products, with high quality and in short period of time.

CLASSIFICATION OF APPLICATIONS

- Atmospheric Environment
- Land Environment
- Marine Environment
- Water Environment
- Soil Environment



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SATELLITES SUPPORTED

- CBERS-4
- FY-3B、FY-4A
- GF-1、GF-2、GF-3
- NOAA-18
- Landsat-7、Landsat-8
- MODIS
- SPOT-6
- Thaichote-1

SUPPORT DATA FORMAT

- CBERS-4
- FY-3B、FY-4A
- GF-1、GF-2、GF-3
- NOAA-18
- Landsat-7、Landsat-8
- MODIS
- SPOT-6
- Thaichote-1

SUPPOPERFORMANCE

- Automatic image processing: less than 5 minutes per 100 MB of data
- Single monitoring module's processing time is less than 30 minutes.

TAS'S PRODUCTS FOR ENVIRONMENTAL ISSUES

- Water Environment
 - Chlorophyll monitoring
 - Suspended solids on water monitoring
 - Water transparency analysis
 - Water surface temperature monitoring
 - Water eutrophication monitoring
 - Flood area monitoring
 - Oil spilling monitoring
- Land Environment
 - Desertification monitoring
 - Fire point extracting
 - Fire area evaluating
 - Wetland monitoring
 - Drought monitoring
- Atmospheric Environment
 - Urban heat island
 - Sandstorm monitoring
 - Aerosol retrieval

