



Geoinformation Science

The programme focuses on applied Geographical Information Systems (GIS) and provides leadership in GIS products, solutions and decision support systems for agriculture and natural resources management. The Coarse Resolution Satellite Image Archive and Information Database is maintained as a national asset.

Activities

Decision Support Systems

- Spatially explicit information dissemination systems, e.g. Umlindi newsletter
- Crop and land suitability modelling/assessments
- Disease and pest outbreaks and distribution modelling
- Precision agriculture information systems

Early Warning and Food Security

- Drought and vegetation production monitoring
- Crop estimates and yield modelling
- Animal biomass and grazing capacity mapping
- Global and local agricultural outlook forecasts
- Disaster monitoring for agricultural systems

Natural Resources Monitoring

- Land use/cover mapping
- Invasive alien plant species distribution
- Applications of GIS and satellite imagery on land degradation/erosion, desertification, hydrology and catchment areas
- Rangeland health assessments
- Carbon inventory monitoring

Contact Person: Dr George Chirima
Tel: 012 310 2672 • E-mail: chirimaj@arc.agric.za

ARC-Soil, Climate and Water

600 Belvedere Street, Arcadia, 0083
Private Bag X79, Pretoria 0001
Tel: 012 310 2500 • Fax: 012 323 1157
Website: www.arc.agric.za

For more information contact:
Adri Laas - Public Relations Officer
E-mail: adril@arc.agric.za

