

Regional Training Centre

PRETORIA



Introductory course on Coastal Meteorology

This course is designed to empower those tasked with management and policy-making opportunities of the environment

- * The coastal resource is a limited area resource shared by many stakeholders; the public, commercial and subsistence fisheries, maritime transport, conservation management, etc.
- * To bring about optimal and harmonious use of this resource by the vast cross-section of users, there needs to be a sound understanding of this environment, and the important meteorological processes that take place within it.

The course will help to understand:-

- * The causes and effects of meteorological phenomena in the coastal region.
- * The characteristic coastal atmospheric circulation within the coastal ocean,
- * The marine and atmospheric boundary layers as well as ocean-atmosphere interaction processes.
- * Climate change and its associated coastal effects.

Day 1:

- * The coastal zone and its characteristics, both landward and seaward of the shore
- * Circulation of coastal ocean; bottom topography and coastal landform effects
- * The atmosphere; atmospheric pressure, wind, visibility, clouds and weather
- * Marine & atmospheric boundary layer.

Day 2:

- * Air sea interaction processes; fluxes of momentum, energy and water.
- * Thermodynamically driven processes; land-sea breezes.
- * Coastally trapped disturbances; coastal low.
- * Storm surges; including tides, tropical Cyclones.

Day 3:

- * Monitoring and instrumentation
- * Understanding sea state development
- * Simulation/exercise

Day 4:

- * Coastal effects of climate variability, and climate change
- * The South African coasts: West, South and East

Contact Details

REGIONAL TRAINING CENTRE

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Outcomes (Skills Acquired):

- * Enhanced knowledge of the coastal zone to support strategies and decision making.
- * Enhanced knowledge of meteorological process specific to the coastal zone.
- * Understanding of the impact of certain meteorological events on the usage of, and access to, the coastal zone.

Target Market (Who should attend):

- * Persons in the roles of middle-level management, and/or policy-making for local authorities in coastal areas – this could include local and district municipalities.
- * Persons working at ports, coastal tourism facilities, etc.
- * Persons working at organisations doing work in coastal areas (including NGO's)
- * Persons interested in understanding the characteristics of coastal meteorology.

Pre-requisite requirement is a strong Meteorological background with English proficiency

When making enquiries regarding this course that is offered through the South African Weather Service, please quote the following reference number:-

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