

The background of the slide is a photograph of a bright blue sky with wispy white clouds at the top, transitioning into a deep blue ocean surface with gentle ripples. The sun is visible on the left side, creating a bright glow and a reflection on the water.

# **MANAGING LITTORAL DRIFT IN RICHARDS BAY**

# Content

- Phenomenon of littoral drift
- Littoral drift being experienced in the port
- Abnormal nautical events
- Action taken to manage littoral drift

# Phenomenon of littoral drift

- Significant wave Height and direction
- Coastal structures
- Shoreline changes

# Littoral drift being experienced in the port

- **Coastline outside port**
  - Estimated longshore transport of 800 000 m<sup>3</sup>
- **Coastline inside port**
  - Estimated longshore transport of 30 000 m<sup>3</sup>

# Abnormal nautical events

- High seas in March 2007
- High seas in December 2006
- Cyclones in 1985 and 1987

# Action taken to manage littoral drift

- Transporting the sand across the port entrance by means of a dredger
- Provision of a sand bypass system
- Construction of groynes
- Construction of revetments