

Mozambique s low-loss thermal channel



Overview

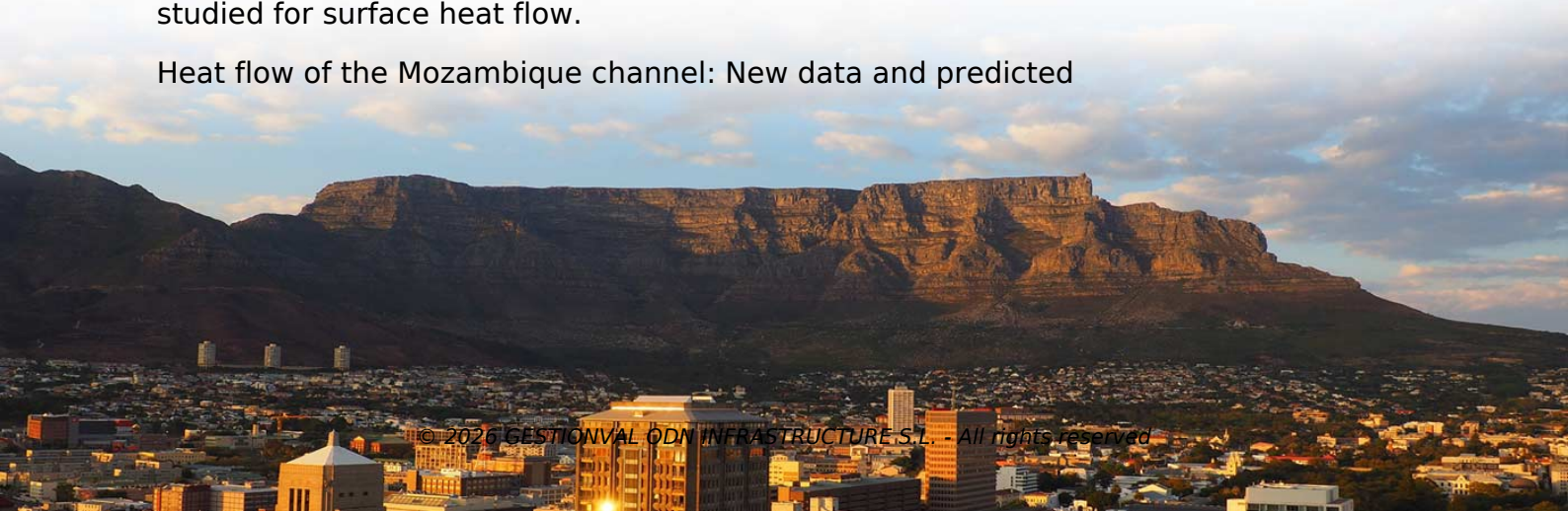
The new Mozambique heat flow map shows a predominantly low offshore heat flow of around 50 mW/m², associated with the Jurassic and early Cretaceous age of the oceanic crust. In the Indian Ocean, the topography, winds, and inter-ocean exchange make the basin's thermocline unique. Particularly complex thermocline circulation occurs in the Mozambique Channel, the highly dynamic region between the coast of southeastern Africa and the Indian Ocean. The Mozambique Channel is a conduit of trade wind-driven throughflow that is a key component of the Agulhas Current and Agulhas leakage, a flux of warm and salty water from the tropical Indo-Pacific to the Atlantic Ocean. Agulhas leakage is thought to modulate Atlantic meridional overturning. Mozambique is one of the African countries most affected by climate change, with significant impacts on its environment, society, and economy.

Article Content

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Marine heatwaves in the Mozambique Channel

Marine heatwaves (MHWs) are becoming more frequent and intense around the world leading to long-term impacts on ecosystems and subsequent

Mozambique: Cyclone, deal dispute stall thermal energy

A contractual deadlock as well as turbines destroyed during a cyclone are two major obstacles the government of Mozambique is looking to

Eddies in the southern Mozambique Channel

The southern end of the Mozambique Channel is the source region for the incipient Agulhas Current, the strongest western boundary current in the Southern Hemisphere. However,

Influence of Mozambique Channel eddies on larval loss

The shallow-water shrimp fishery is an important social and economic sector in Mozambique. However, catches of shrimps have been declining over

Observations of the flow in the Mozambique Channel

Abstract During a recent research cruise to investigate the nature and continuity of the Mozambique Current, we observed that the flow in the

Effects of Anticyclonic Eddies on the Unique Tropical

The unique tropical storm (TS) Deliwe (2014) occurred in the northern Mozambique Channel on 17 January 2014 and turned right during its whole life

Mozambique Channel | Map, Africa, Location, Depth,

Mozambique Channel, channel of the western Indian Ocean, threading between the island country of Madagascar on the east and Mozambique on the African

The Mozambique Channel: From physics to upper trophic levels

A multidisciplinary programme, MESOBIO (Influence of mesoscale dynamics on biological productivity at multiple trophic levels in the Mozambique Channel) was undertaken in the Mozambique Channel

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Comprehensive Analysis of the Energy Transition in

This paper presents a comprehensive analysis of Mozambique's energy transition, focusing on integrating a hybrid solar-wind system with green

SST Anomalies in the Mozambique Channel Using

Based on both satellite remote sensing sea surface temperature (SST) data and numerical model results, SST warming differences in the

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

