Namibian Thermal Channel Outdoor Type



Overview

Thermal signature of Namibian coastline The first image from the Sentinel-3A Sea and Land Surface Temperature Radiometer (SLSTR) thermal-infrared channels.

Key Takeaways

Namibia exhibits strong thermal activity both in satellite-observed surface temperatures and in outdoor soaring conditions, driven by its arid landscape and coastal currents.

Thermal-

Infrared Observations

The Sentinel-3A Sea and Land Surface Temperature Radiometer (SLSTR) captures thermal-infrared data over Namibia, showing the brightness temperature of land and ocean surfaces. On the Namibian coast, land surfaces appear in red–orange colors corresponding to 301–319K, while the South Atlantic Ocean shows cooler blue tones of 285–295K due to upwelling from the Benguela Current. These thermal channels are used to monitor ocean currents, coastal upwelling, and land surface temperature variations, which are important for environmental studies, fisheries, and climate monitoring.

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Outdoor Thermal Conditions for SoaringNamibia's outdoor thermals are exceptionally strong, making it a world-class location for gliding and soaring. These thermals are generated by: Sun-heated ground over plateaus and escarpments, such as the Waterberg Plateau and Brandberg MountainCumulus cloud formation that indicates rising warm airWind patterns interacting with terrain features to enhance lift Pilots can exploit these thermals to achieve record-breaking altitudes, and careful monitoring of weather conditions, cloud formations, and terrain influences is essential for safe and effective soaring.

Key Locations and Applications

Namib Desert and Coastal Plains: High surface temperatures and minimal vegetation create strong daytime thermals Skeleton Coast and Kaokoveld: Coastal upwelling affects local temperature gradients, influencing thermal patterns Waterberg Plateau and Brandberg Mountain: Optimal for gliding due to terrain-enhanced thermals These thermal channels, whether observed via satellite or experienced outdoors, are critical for environmental monitoring, aviation, and recreational gliding. Understanding both the satellite-derived thermal signatures and local outdoor thermals allows for better planning in scientific, commercial, and recreational activities in Namibia.

Article Content

Thermal Signature off the Namibian coast

The first image from the Sentinel-3A Sea and Land Surface Temperature Radiometer (SLSTR) thermal-infrared channels depicts thermal signatures over

Thermal signature of Namibian coastline

n Namibia and the South Atlantic Ocean. This image shows the ''brightness temperature'', which correspond to radiation emitted from the surface. Further processing is needed to t rn this into an

Project E1

We credit the Atlas of Namibia Project (2002) Directorate of Environmental Affairs, Ministry of Environment and Tourism () as the direct source of the used

Namibia''s Record-Breaking Thermals: Pilot''s Guide

In Namibia, the exceptional thermal conditions, driven by landscape features like Waterberg Plateau and strong sun-heated ground, make it ideal for

Build it

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CHAPTER 2 LANDFORMS AND GEOLOGY | Atlas of Namibia

The processes included separation, collision, upheaval, outbursts and obliteration at a continental scale. They determined where Namibia now lies on Earth, and they shaped Namibia''s surface, creating

Geology of Namibia

This type of rocks is well-distributed in the Kaokoveld of northwest Namibia. It is followed by continental sediments of the Omingonde Formation of the Ecca and Stormberg Groups in central Namibia.

Namibia Outdoor Heating Market (2026-2032) | Outlook & Share

Namibia Outdoor Heating Market: Import Trend Analysis The Namibia outdoor heating market experienced significant growth from 2020 to 2024, with a Compound Annual Growth Rate (CAGR) of

Integrating desalination with concentrating solar thermal power: A ...

This paper reports on a feasibility study into the integration of a multi-effect distillation plant with a central receiver plant to generate electricity for the Namibian grid, and fresh water for the community and

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Namibia''s Desert-Inspired Architecture: Blending

The Influence of Namibia''s Desert Climate on Architecture Namibia''s desert climate plays a key role in shaping the country''s architecture. With

ENERGY STORAGE SYSTEMS AND THEIR APPLICATIONS IN NAMIBIA

Lastly, thermal energy storage devices have been in use for several decades, and contemporary applications include electrically-powered hot water devices, solar thermal hot water systems, as well

The Role of NamPower in Namibia''s Energy Sector

NamPower''s Role in Namibia''s Electricity Supply NamPower is responsible for producing the majority of the electricity used in Namibia. The

Thermal Imagery-Derived Surface Inundation Modeling to Assess

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Burke JJ, Pricope NG, Blum J. Thermal Imagery-Derived Surface Inundation Modeling to Assess Flood Risk in a Flood-Pulsed Savannah Watershed in Botswana and Namibia.

The Patio

The Patio is a truly Namibian all weather outdoor furniture store situated in Windhoek which sells premier German outdoor furniture, European designed,

Channels

Channels Variants - Mill, Nat Anodised, Matt Charcoal, BLK P/Coated, WHITE P/Coated, BRZ P/Coated, PCX1, PCX2, PCX3, PCX4

(PDF) Ecophysiological Adaptations to Dry Thermal ...

Ecophysiological Adaptations to Dry Thermal Environments Measured in Two Unrestrained Namibian Scorpions, Parabuthus villosus (Buthidae) and Opisthophthalmus flavescens

Megabuild

The first-of-its-kind in Namibia, Pupkewitz MegaBoards was established in Windhoek in 2019 as a one-stop shop for wood-based products and hardware, offering high-end cutting and edging services.

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Technical inquiry: https://explosivefunctions.co.za/contact.html
EU project coordination: Parque das Nações, Lisbon, Portugal

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

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