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The Andaman–Nicobar archipelago that forms the western margin of the Andaman Sea is a sediment-dominated accretionary wedge (outer-arc island) associated with a convergent margin tectonic setting. The Andaman accretionary ridge consists of two stratigraphically and structurally distinct terranes, juxtaposed and telescoped into

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a north-south-trending high-relief fold-thrust belt formed along the obliquely subducting eastern margin of the Indo-Australian oceanic lithospheric plate.

Chapter 6 Geological framework of the Andaman-Nicobar ...

The Andaman-Nicobar archipelago that forms the western margin of the

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Andaman Sea is a sediment-dominated accretionary wedge (outer-arc island) associated with a convergent margin tectonic setting.

Chapter 6 Geological framework of the Andaman-Nicobar Islands

Rocks exposed across the hundreds of islands that belong to the 800 km long

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Andaman-Nicobar archipelago provide a condensed window into the active subduction zone that separates the India-Australia plate from the over-riding Burma-Sunda plate.

The Andaman-Nicobar Accretionary Ridge: Geology, Tectonics ...

The Nicobar Islands are an archipelagic

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island chain in the eastern Indian Ocean. They are located in Southeast Asia, 150 km north of Aceh on Sumatra, and separated from Thailand to the east by the Andaman Sea. Located 1,300 km southeast of the Indian subcontinent, across the Bay of Bengal, they form part of the Union Territory of Andaman and Nicobar Islands, India.

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Nicobar Islands - Wikipedia

The great thicknesses of pre-Late Miocene Tertiary sediments in the Andaman-Nicobar Ridge were derived from the northeast, an area now occupied by submerged youthful rift topography. It is concluded that the sediments derived from planation of the

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Malay shelf were shed into an adjacent Tertiary trough which was subsequently molded into the Andaman-Nicobar Ridge during Oligocene to Miocene time.

Bathymetry and Marine Geology of the Andaman Basin, and ...

The Andaman-Nicobar basin, located in the southeastern part of the Bay of

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Bengal, occupies an area of 47,000 sq. km including deep waters (Index Map Of Andaman-Nicobar Basin). This basin forms a part of Island Arc System which extends from Myanmar in the north to Indonesia in the south. The Andaman-Nicobar basin represents a typical Island arc system.

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Andaman Nicobar | NDR - National Data Repository India

The Andaman-Nicobar archipelago is the emergent part of a long ridge which extends from the Arakan-Yoma ranges of western Myanmar (Burma) in the north to Sumatra in the south. To the east the archipelago is flanked by the Andaman Sea and to the west by the

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Bay of Bengal (Fig. 1.1). A c. 160 km wide submarine channel running parallel to the 10° N latitude between Car Nicobar and Little Andaman islands, known as Ten Degree Channel, is a major physiographic discontinuity that separates the ...

Chapter 2 Introduction to the

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geography and geomorphology ...

This classic arc system is interrupted in the Andaman-Nicobar area by a mid-Miocene to present day spreading centre. This is opening in a north-north-west to south-south-east direction, and comprises a series of segments separated by similarly trending transform faults.

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GEO ExPro - Andaman Basin

The Andaman Sea is a marginal sea of northeastern Indian Ocean bounded by the coastlines of Myanmar and Thailand along the Gulf of Martaban and west side of the Malay Peninsula, and separated from the Bay of Bengal to its west by the Andaman Islands and the

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Nicobar Islands. Its southernmost end is defined by Breueh Island, an island just north of Sumatra, and communicates with the Malacca Strait. Traditionally, the sea has been used for fishery and transportation of goods between the coastal cou

Andaman Sea - Wikipedia

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The first accounts on the geology and origin of the Andaman - Nicobar Ridge was given in mid nineteenth century. However these were localized restricted to an island or a part of it and was in the form of preliminary reports on lithology. Helfer (1840) was the first worker to carry out geological field work on these islands, in 1840.

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Chapter 2 Geology and Earlier work - Shodhganga

The Andaman–Nicobar Ridge is an imbricate stack of fault slices consisting of slivers of seafloor ophiolites and the overlying sediments, capped by Neogene shallow water sediments (e.g. Pal et al. 2003). The eastern edge of the

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ridge is fault bounded and, north of the Nicobar Islands, forearc basins are located between the ridge and the WAF.

Morphology and tectonics of the Andaman Forearc ...

Regional tectonics, structure and evolution of the Andaman-Nicobar Islands from ophiolite formation and

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obduction to collision and back-arc
spreading / C.K. Morley & M. Searle
Geological framework of the Andaman-
Nicobar Islands / P.C. Bandopadhyay &
A. Carter

The Andaman-Nicobar accretionary ridge : geology ...

The Andaman Islands form part of the

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outer-arc accretionary sedimentary complex belonging to the Andaman–Sumatra active subduction zone. The islands are characterized by thick cover of Neogene sediments along with exposed ophiolite rocks at few places.

Magnetic anomalies over

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theAndamanIslands ...

Andaman and Nicobar Islands were formed due to collision between Indian Plate and Burma Minor Plate [part of Eurasian Plate] [Similar to formation of Himalayas]. Andaman and Nicobar Islands are southward extension of Arakan Yoma range [Myanmar] [Arakan Yoma in itself is an extension of

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Purvanchal Hills]

How were the Andaman Island and the Nicobar Island formed ...

The Andaman-Nicobar Accretionary
Ridge-P.C. Bandopadhyay 2017-03-01
Rocks exposed across the hundreds of
islands that belong to the 800 km long
Andaman--Nicobar archipelago provide a

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condensed window into the active subduction zone that separates the India--Australia plate from the over-riding Burma--Sunda plate.

Geology Of Andaman Nicobar The Neogene ...

This archipelago, born of a submerged mountain chain - the Arakan Yoma that

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stretches South from Myanmar – with its rich tropical forests, its (once) pristine beaches, its blue waters and coral reefs, posed a temptation that no reasonable naturalist could resist.

Island Fever: A Lifelong Obsession with the Andaman and ...

Andaman and Nicobar Islands, union

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territory, India, consisting of two groups of islands at the southeastern edge of the Bay of Bengal.

Andaman and Nicobar Islands | History, Map, Points of ...

The Andaman and Nicobar Islands is a union territory of India composed of two groups of islands at the southeastern

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edge of the Bay of Bengal. The Andaman Sea got its name from the Andaman Islands. The Andaman Islands are an island group which is part of the Andaman and Nicobar Islands.

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