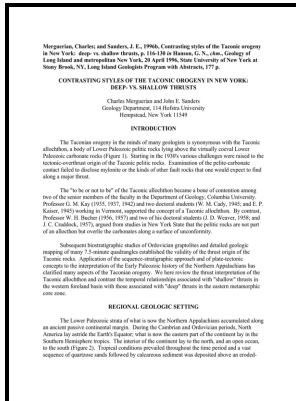


# Taconide zone and the Taconic orogeny in the western part of the northern Appalachian orogen.

Geological Society of America - Geomorphology



Description: -

Orogeny -- Appalachian Mountains.  
Geology, Stratigraphic -- Paleozoic. Taconide zone and the Taconic orogeny in the western part of the northern Appalachian orogen.

An Evergreen black cat book, BC-117.

His Works

135.

Special papers (Geological Society of America) ; Taconide zone and the Taconic orogeny in the western part of the northern Appalachian orogen.

Notes: Bibliography: p. 53-65.

This edition was published in 1972



Filesize: 54.48 MB

Tags: #Geology #of #the #Appalachian #Mountains

## Piedmont and Blue Ridge Project

Following McKerrow and Ziegler 1971, this tract is interpreted as the site of an ocean which closed in Siluro-Devonian by simultaneous subduction beneath both continental margins.

## Geometry and Style of Post

Coincident with the zone of structural highs is a zone of Bouguer gravity highs; the coincidence extends from northwestern Newfoundland through the Gulf of St. It became a bounding fault for Late Paleozoic basin development Chapter 6, Figs.

## Peripheral bulge—a causal mechanism for the Lower/Middle Ordovician unconformity along the western margin of the Northern Appalachians

Tropical temperatures and extreme aridity characterized the environments of northern basins, such as the Fundy Basin, comparable to the modern Death Valley of California. Slab pull and far-field drivers such as ridge push were aiding in closing the distance between the island arc and the continent. Paleontologic and sedimentologic evidence for local syndepositional tectonics The following diagram provides sedimentologic evidence for syn-depositional fault activation in the region of Poland, New York.

## North america

Geological Society of America Memoir.

## Acadian Orogeny

Moreover, this tectonic event modified the paleoceanographic and paleoclimatic patterns, which undoubtedly had major influences on the origination, distribution, and extinction of faunas in the region. As is illustrated, tectonic activity produced piano key-like movement on the Little Falls fault swarms by as much as 25 m, and show evidence of horst and graben reversals. The rocks of the Grenville Province in Canada are

included in this category.

## **Tectonic**

Following rapidly geologically speaking on the heels of this event was the Taconian orogeny of Middle Ordovician time ~ 450 million years ago. They represent a quiet time following Taconic orogeny but prior to Acadian orogeny.

## **Mountain Building Part II**

In Newfoundland, however, intrusive ultramafic bodies may be genetically related to an apparently extrusive ultramafic-mafic ophiolite complex preserved in the allochthons. Most Maine rocks were affected.

## **Peripheral bulge—a causal mechanism for the Lower/Middle Ordovician unconformity along the western margin of the Northern Appalachians**

The classic interpretation is that the Appalachian Mountains were affected by three orogenic episodes, the Cordillera by five, and the Ouachita-Marathon region by one. Geology of the Southern Hudson River Valley The Great Valley occupies most of the fold and thrust belt in the southern Hudson River Valley.

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