## ... towards World Heritage Site designation

The classic Carboniferous section at Joggins, Nova Scotia, gained the attention of the world in the mid 19th Century as the proving ground for Sir Charles Lyell's *Principles of Geology*. It was the site of coal mining as early as the 1600s and became the first field project of the newly formed Geological Survey of Canada in 1842.

The Coal Age forest swamps of Joggins were a 'greenhouse' of terrestrial evolution, as

witnessed by the record of life within the fossil forests, which ranges from the earliest land snails to the first unequivocal reptiles. Relentless erosion of the spectacular sea cliffs by the world-record tides of the Bay of Fundy continually exposes fresh rocks, ensuring that new discoveries will continue to be made at Joggins.

## **World Heritage Designation for Joggins**

The Community of Joggins has begun the preparation to be nominated as a World Heritage Site. Currently, an estimated 20,000 tourists visit the fossil cliffs each year, a number that has the potential to swell several fold with World Heritage Site designation.

The United Nations Educational, Scientific and Cultural Organization (UNESCO) requires that a World Heritage Site be "...of outstanding universal value". Nominated geological sites should "be outstanding examples representing major stages of the earth's history, including the record of life..."<sup>2</sup>

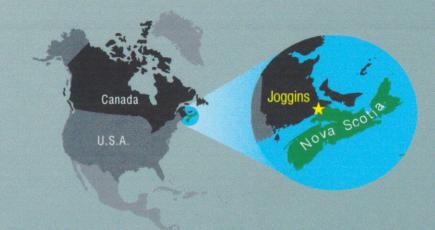
Joggins meets these criteria. Now it is our challenge to demonstrate this to the world.

Sources: <sup>1</sup> Article 2 of The Convention Concerning the Protection of the World Cultural and Natural Heritage, UNESCO, 1972
<sup>2</sup> Operational Guidelines for World Heritage Sites, UNESCO

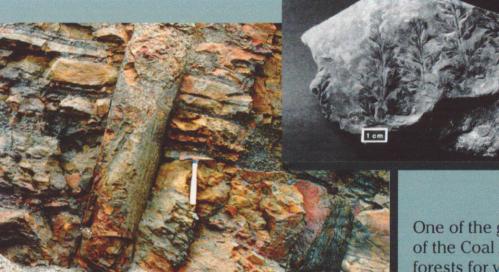


Minerals and Energy Branch
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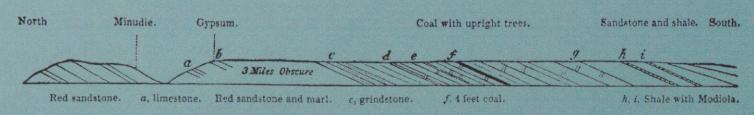


- from the Donald Reid Collection, Joggins Fossil Centre

Fern-like foliage

One of the great trees of the Coal Age fossil forests for which Joggins is famous.

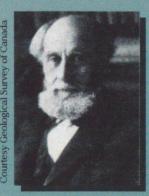
## Fig. 18. Section of the cliffs of the South Joggins, near Minudie, Nova Scotia.





'But the finest example in the world of a natural exposure [of the Coal Measures] in a continuous section ten miles long, occurs in the sea-cliffs bordering a branch of the Bay of Fundy in Nova Scotia'

Sir Charles Lyell, writing of Joggins in The Student's Elements of Geology, 1871.



Sir J. William Dawson documented the fossil record of Joggins in the last half of the 19th century.

