

Bedrock and Quaternary geology of the Scotian Shelf southwest of Yarmouth, Nova Scotia

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A large area of the continental shelf north of Browns Bank, around 42°55'N latitude and from longitude 65°50'W to 66°30'W, has bedrock exposed at the seafloor. Bedrock distribution was mapped from previous boomer and sidescan surveys of King and his colleagues and targets were selected for swath bathymetry mapping. Approximately 250 km² of

seabed were mapped with the EM-100 system and 1800 line-km of magnetometer profiles were collected in June 1996. Most of the seabed consists of folded and faulted Meguma Supergroup, locally overlain by Quaternary landforms. The contribution presents a preliminary geological map of the area.

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