



**OPEN FILE
DOSSIER PUBLIC
2320**
GEOLOGICAL SURVEY
COMMISSION GÉOLOGIQUE
OTTAWA

LEGEND

Sand Ridge; arc indicates wavelength along track; numerator denotes ridge amplitude from trough to crest in metres; denominator denotes total thickness of sand from crest of sand ridge to underlying reflective surface in metres

Sand ribbon

Wave-formed ripples in gravel and/or megaripples

Incised area of sand ridge. These rippled areas consist of coarse sand and gravel with broken shell debris in the troughs of the bedforms; the ripples have a wave-length of 1-3 m and amplitudes of 0.5 - 1 m; the ripples generally tend to be straight crested but bifurcate as well (Fader and Miller, 1986)

Broad incised area (as above); along-track extent shown

Boulder or boulder field; interpreted from sidescan sonar records; boulders range in diameter from 0.5 - 7.0 m

Trawl marks; made by trawl doors scraping along seabed

Shell communities or bioherms; lenticular to circular patches composed of bivalves, sea cucumbers, and other unidentified benthic communities

Buried channel

Water depth, in metres

94 1200 Navigation fix, annotation in Julian day, time
Cruises— Hudson 85-005 from 94 140 to 95 1550 and 97 1630 to 104 0200
Hudson 80-010 from 119 300 to 121 400

N.B. Orientation of bedforms and surficial features is not implied

Specified references to bedform definitions are from:
Fader, G.B.J. and Miller, R.O., A reconnaissance study of the surficial and shallow bedrock geology of the southern Grand Banks of Newfoundland, in Current Research, Part B, Geological Survey of Canada, Paper 86-1B, 1986, 591-604.

Other bedform definitions refer to:
Amos, G.L. and King, E.L., Bedforms of the Canadian eastern seaboard: a comparison with global occurrences, Marine Geology, 57, 1984, 167-206

SCALE (Km.)
10 20

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**BEDFORMS & SURFICIAL FEATURES
SOUTHERN GRAND BANK
MAP AREA 14938-SF**

DATE: MAY, 1990	GEOLOGIST: R.O. MILLER, G.B.J. FADER, M. DOUMA	
PROJECTION : TRANSVERSE MERCATOR CM -49W		SCALE : 1 : 250000
ENCLOSURE: 7/14	DRAWN BY: MD	EOR PROJECT NO : 89-31B