



OPEN FILE
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2320
GEOLOGICAL SURVEY
COMMISSION GÉOLOGIQUE
OTTAWA

NATURAL RESOURCE SURVEY NUMBER

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 wave

Sand ribbon

Wave-formed ripples in gravel and/or megaripples

Linguoid-shaped 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 wavelength 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

Bedrock; appears on sidescan as broad zone of high reflectivity

Shipwreck

Water depth, in metres

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 southeastern Grand Banks of Newfoundland, in Current Research, Part B, Geological Survey of Canada, Paper 86-1B, 1986, 561-604

Other bedform definitions refer to:
Amos, C.L. and King, E.L., Bedforms of the Canadian eastern seaboard: a comparison with global occurrences, Marine Geology, 57, 1984, 167-208

SCALE (Km.)

0 10 20

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**BEDFORMS & SURFICIAL FEATURES
SOUTHERN GRAND BANK
MAP AREA 15040-SF**

DATE: MAY, 1990	GEOLOGIST: R.O. MILLER, G.B. FADER, M. DOUMA
PROJECTION: TRANSVERSE MERCATOR CM -51W	SCALE: 1: 250000
ENCLOSURE: 3/14	DRAWN BY: MD
EOR PROJECT NO: 89-31B	