

#### 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 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

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

Hyperbolic reflections; interpreted from high resolution seismic profiles; may represent buried boulders

Buried channel

Iceberg furrow

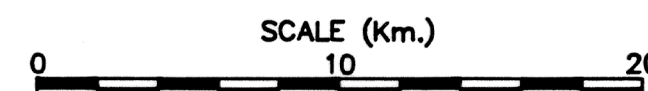
Water depth, in metres

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 southeastern Grand Banks of Newfoundland, in Current Research, Part B, Geological Survey of Canada, Paper 86-18, 1986, 591-604

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



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## BEDFORMS & SURFICIAL FEATURES SOUTHERN GRAND BANK MAP AREA 15030-SF

DATE: MAY, 1990 GEOLOGIST: R.O. MILLER, G.B.J. FADER, M. DOUMA

PROJECTION: TRANSVERSE MERCATOR CM -51W SCALE: 1: 250000

ENCLOSURE: 9/14 DRAWN BY: MD EOR PROJECT NO: 89-31B