



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
- 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
- Trawl marks; made by trawl doors scraping along seabed
- Hyperbolic reflections; interpreted from high resolution seismic profiles; may represent buried boulders
- Buried channel
- Water depth, in metres
- Navigation fix, annotation in Julian day, time
Cruise - Hudson 85-005 from 94 140 to 95 1550
and 97 1630 to 104 0200

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, 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

SCALE (Km.)
0 10 20



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BEDFORMS & SURFICIAL FEATURES SOUTHERN GRAND BANK MAP AREA 15042-SF

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

PROJECTION : TRANSVERSE MERCATOR CM -53W SCALE : 1 : 250000

ENCLOSURE: 5/14 DRAWN BY: MD EOR PROJECT NO : 89-318