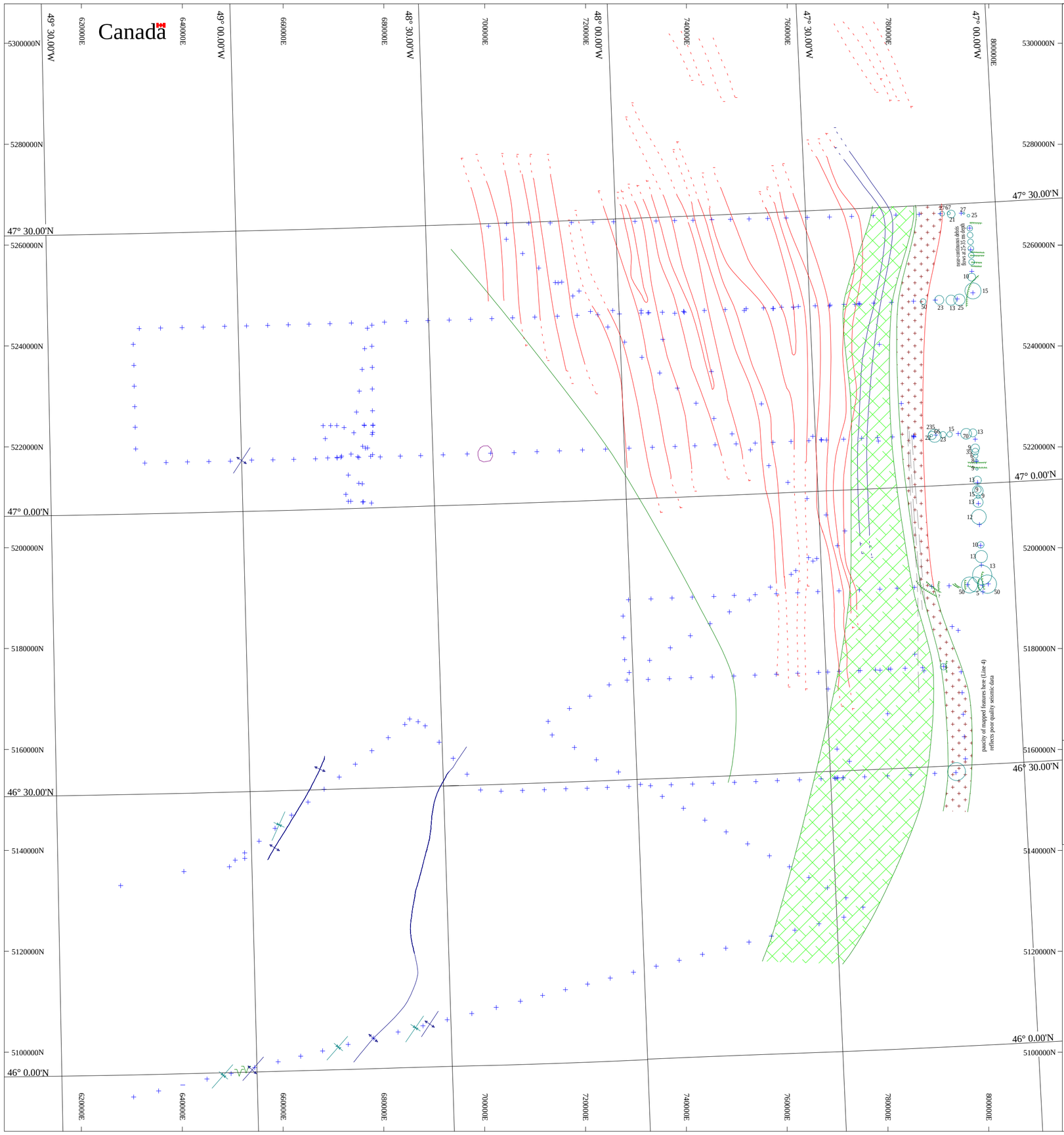

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GEOLOGICAL SURVEY
COMMISSION GÉOLOGIQUE
OTTAWA
3886

SHEET 4 OF 5

LEGEND

Ships Track (98-034)
-half-hour fixes

Syncline and anticlines in Unit 3
-trends assumed unless extended axial trace shown
-extended traces based largely on coverage from previous surveys (94-021)

Trace of sharp inflections in strata
-Possible faults

Shelf-edge "till delta"
-small scale progradation with landward-tilting upper surface
-interpreted as a near-margin sub-glacial feature

Moranic ridges. Trace of flanks of sharp inflections in strata
lines trace ridge flanks; dotted lines are assumed extrapolations
line to line correlations considerably enhnased using bathymetric chart

Zone of little continuity in sub-bottom strata (above Unit 1d)
-Occasional high-relief features (buried) suggest abundant mass failure

Zone of surficial disturbance (relief of several metres)
-Probably related to intensive iceberg scour
-Probably associated surficial slumping

Trace of significant seabed profile inflection
and apparent truncation of moraines
-Probably related to pre-Late Wisconsinan low sea level stand

Salt diapir
north-south extent unknown

Buried channels incised into top Unit 4
(On line 20; see geologic profiles)

Buried slide scar (headwall) on slope
-orientation assumed except where crossed by two survey lines

Buried debris flow body (homogeneous internal seismic signature)
-commonly lensoid in strike section
-ocassionally exhibit basal erosion
-generally occur at distinct stratigraphic horizons
-Depth to top of feature, in ms below seabed
-diameter represents length of flow intersected along line

Surficial and buried erosional valleys
-probably canyon-like development
-ocassionally mapped as unpaired scarps
-may be larger scale slide failures

MOST FEATURES ILLUSTRATED IN GEOLOGIC SECTIONS OR AS SEISMIC SECTIONS IN REPORT

GEOLOGICAL SURVEY OF CANADA — COMMISSION GÉOLOGIQUE DU CANADA

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This Enclosure part of:
Nearsurface Charcterization of 1998 Seismic Reflection Data
Contract to GSC-Atlantic 23420-8-M502 and ammendment

Scale
0 2 4 6 8 10 15 20
Kilometres

Geological Survey of Canada
Atlantic

KING GEOLOGICAL MARINE CONSULTING

Northeast Grand Bank

Geologic Features
Surficial and Buried

DATE: Feb., 1998	GEOLOGIST: Edward L. King	
PROJECTION: UTM Zone 22 CM 51°W		SCALE: 1:600,000
ENCL: 3	DRAWN BY: E. King	KING GEOL. PROJ: 98-03