TABLE OF CONTENTS

VOLUME 152—SCIENTIFIC RESULTS

SECTION 1: SEDIMENTOLOGY

1.	Late Neogene and Quaternary sedimentation on the continental slope and upper rise offshore southeast Greenland: interplay of contour and turbidity processes	
2.	Major and trace element geochemistry of sediments from East Greenland Continental Rise: an implication for sediment provenance and source area weathering	
3.	Neogene–Quaternary depositional history of the East Greenland shelf in the vicinity of the Leg 152 shelf sites	
4.	Grain-size distribution and significance of clay and clay-sized minerals in Eocene to Holocene sediments from Sites 918 and 919 in the Irminger Basin	
5.	Long-range transport of Icelandic tephra to the Irminger Basin, Site 919	
6.	5. Trace and rare earth element chemistry of volcanic ashes from Sites 918 and 919: implications for Icelandic volcanism	
7.	Interlaboratory comparison of electron probe microanalysis of glass geochemistry	
8.	Chemical composition, age, and sources of volcaniclastic sediments from Sites 917 and 918 93 R. Werner, P. van den Bogaard, C. Lacasse, and HU. Schmincke	
9.	Alteration of uppermost lavas and volcaniclastics recovered during Leg 152 to the East Greenland Margin	
10.	Metamorphosed sedimentary (volcaniclastic?) rocks beneath Paleocene basalt in Hole 917A, East Greenland Margin	
SEC	CTION 2: BIOSTRATIGRAPHY	
11.	Calcareous nannofossils from the southeast Greenland Margin: biostratigraphy and paleoceanography	
12.	Planktonic foraminifer biostratigraphy and paleoenvironmental implications of Leg 152 sites (East Greenland Margin)	

13.	Siliceous sponge spicules, silicoflagellates, and ebridians from Hole 918D, continental rise of the Greenland Margin		
14.	<i>Bolboforma</i> biostratigraphy from the southeast Greenland Margin, Hole 918D		
15.	High-resolution Pleistocene diatom biostratigraphy and paleoceanography of Site 919 from the Irminger Basin		
16.	Early Eocene palynofloras from Holes 915A, 916A, 917A, and 918D, East Greenland		
17.	Strontium-isotope stratigraphy from Sites 918 and 919		
18.	8. Mid- to late Quaternary stable isotopic stratigraphy and paleoceanography at Site 919 in the Irminger Basin		
19.	Data Report: No significant occurrences of diatoms, silicoflagellates, or ebridians in lower Eocene through lower Miocene sediments of the southeast Greenland Margin		
SEC	CTION 3: PALEOMAGNETISM		
20.	Eocene–Miocene magnetostratigraphy of the southeast Greenland Margin and western Irminger Basin		
21.	Paleomagnetic results from basement rocks from Site 917 (East Greenland Margin)		
22.	Pliocene–Pleistocene magnetostratigraphy of sedimentary sequences from the Irminger Basin265 K. Fukuma		
23.	Origin and applications of whole-core magnetic susceptibility of sediments and volcanic rocks from Leg 152		
SEC	CTION 4: GEOCHEMISTRY		
24.	Organic carbon accumulation at southeast Greenland Site 918: implications on paleoenvironment and paleoceanography during late Cenozoic times		
25.	Geochemistry of interstitial waters		
26.	Data Report: Major, trace, and rare earth element composition of interstitial water squeeze cakes		

SECTION 5: PETROLOGY

27.	Volcanic rocks of the southeast Greenland Margin in comparison with other parts of the North Atlantic tertiary igneous province
	L.M. Larsen, J.G. Fitton, and M.S. Fram
28.	Volcanic rocks from the southeast Greenland Margin at 63°N: composition, petrogenesis, and mantle sources
	J.G. Fitton, A.D. Saunders, L.M. Larsen, B.S. Hardarson, and M.J. Norry
29.	Sr-, Nd-, and Pb-isotopic composition of volcanic rocks from the southeast Greenland Margin at 63°N: temporal variation in crustal contamination during continental breakup
30.	Low pressure experimental constraints on the evolution of basaltic lavas from Site 917, southeast Greenland continental margin
31.	Mantle melting systematics: transition from continental to oceanic volcanism on the southeast Greenland Margin
32.	⁴⁰ Ar- ³⁹ Ar ages of lavas from the southeast Greenland Margin, ODP Leg 152, and the Rockall Plateau, DSDP Leg 81
33.	Mineral chemistry of volcanic sequences from Hole 917A, southeast Greenland Margin
34.	Distribution and chemistry of secondary minerals (zeolites and clay minerals) from Hole 917A, southeast Greenland Margin
35.	XRF analyses of volcanic rocks from Leg 152 by laboratories in Edinburgh and Copenhagen: implications for the mobility of yttrium and other elements during alteration
36.	Data Report: Composition of basaltic lavas from the seaward-dipping reflector sequence recovered during Deep Sea Drilling Project Leg 81 (Hatton Bank)
SEC	CTION 6: GEOPHYSICS
37.	Structures within Hole 917A, southeast Greenland rifted margin
38.	Seismic properties of flood basalts from Hole 917A downhole data, southeast Greenland volcanic margin
39.	Crustal structure along the Leg 152 drilling transect

SECTION 7: SYNTHESES

40.	Magmatic development of the southeast Greenland Margin and evolution of the Iceland Plume: geochemical constraints from Leg 152	179
41.	Tectonism and volcanism at the southeast Greenland rifted margin: a record of plume impact and later continental rupture	603
SE	CTION 8: INDEX	
	Index	37

BACK-POCKET MATERIALS

Oversized Figures

Chapter 38:

Figure 3. Hole 917A downhole logs, volcano-stratigraphy, and core recovery. See text and Figure 5 for discussion and processing. Note that log curves are labeled near the bottom. V1 = short-spacing transit-time log; V2 = long-spacing transit-time log; PR = Poisson's Ratio. Solid circles = minicore physical property measurements; crosses = depth-corrected minicore physical property measurements, size gives approximate depth uncertainty. aB = aphyric basalt, aoB = aphyric olivine basalt; DAC = dacite; oppB = olivine-plagioclase phyric basalt; opppB = olivine-plagioclase-phyric basalt; pB = phyric basalt; ppB = plagioclase phyric basalt; PIC = picrite.

Chapter 39:

Figure 5. New deep multichannel seismic data collected along the Leg 152 drilling transect in 1994. Leg 152 Sites 915, 916, and 917 are shown along with Leg 163 Site 989. The data processing sequence is: trace mixing of same channels on adjacent shots, shot space wave-equation demultiple processing, CDP space frequency/wavenumber domain velocity filtering, NMO stacking using a carefully picked inner trace mute, post-stack minimum phase predictive deconvolution, coherency filtering, and tracing mixing along the stack. No automatic gain control is used, but a trace-to-trace amplitude equalization was applied prior to plotting. A. Large-scale wiggle-trace/variable-area plot of the data. At the landward and seaward ends of the profile, the major crustal regions that are discussed in the text are marked. White dots outline deep reflectors that define Moho and possibly events in the upper mantle. B. Small-scale variable area plot of the same data with our interpreted line drawing superimposed. C. Depth-converted version of the line drawing shown in (B). Horizontal scale for both (B) and (C) is the same.

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VOLUME	CHAP_38.PDF
PRELIM.PDF (volume preliminary pages)	CHAP 39.PDF
CHAP_01.PDF	CHAP_40.PDF
CHAP_02.PDF	CHAP_41.PDF
CHAP_03.PDF	152INDEX.PDF
CHAP_04.PDF	INDEX.PDX (Acrobat catalog of this volume)
CHAP_05.PDF	ASCII (CD-only ASCII tables from chapters,
CHAP_06.PDF	see list below)
CHAP_07.PDF	INDEX (Compiled Electronic Index of the <i>Proceed</i> -
CHAP_08.PDF	ings of the Ocean Drilling Program)
CHAP_09.PDF	
CHAP_10.PDF	List of ASCII files by chapter:
CHAP_11.PDF	CHAP_27 (Chapter 27):
CHAP_12.PDF	27_ELEM.TXT: Leg 152 major and trace element
CHAP_13.PDF	analyses.
CHAP_14.PDF	CHAP_28 (Chapter 28)
CHAP_15.PDF	28_XRF.TXT: Leg 152 XRF data.
CHAP_16.PDF	28_NAA.TXT: Leg 152 NAA data.
CHAP_17.PDF	CHAP_29 (Chapter 29)
CHAP_18.PDF	29_ISOTO.TXT: Isotopic data for volcanic rocks
CHAP_19.PDF	from Leg 152.
CHAP_20.PDF	CHAP_33 (Chapter 33)
CHAP_21.PDF	33_CHEM.TXT: Mineral chemistry of volcanic
CHAP_22.PDF	sequences from Hole 917A.
CHAP_23.PDF	CHAP_34 (Chapter 34)
CHAP_24.PDF	Distribution and chemistry of secondary minerals
CHAP_25.PDF	(zeolites and clay minerals) from Hole 917A.
CHAP_26.PDF	34_CHLO.TXT
CHAP_27.PDF	34_CHROM.TXT
CHAP_28.PDF	34_CLAYS.TXT
CHAP_29.PDF	34_ILMEN.TXT
CHAP_30.PDF	34_MAG.TXT
CHAP_31.PDF	34_OLIVI.TXT
CHAP_32.PDF	34_PLAG.TXT
CHAP_33.PDF	34_PYROX.TXT
CHAP_34.PDF	34_ZEOL.TXT
CHAP_35.PDF	CHAP_36 (Chapter 36)
CHAP_36.PDF	36_HATTN.TXT: XRF analyses of volcanic rocks
CHAP_37.PDF	from Hatton Bank (DSDP Leg 81).