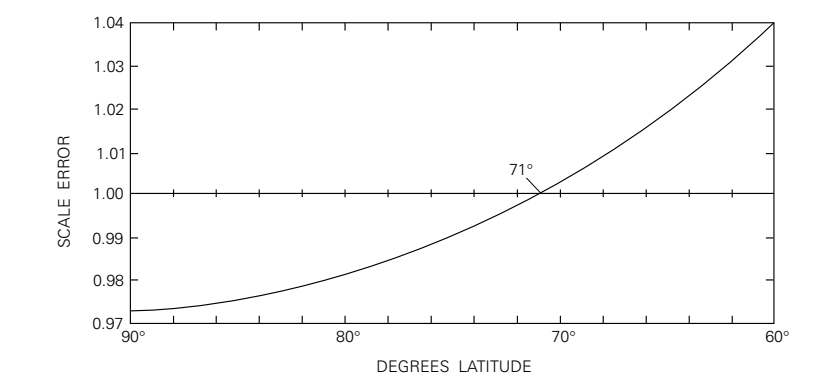


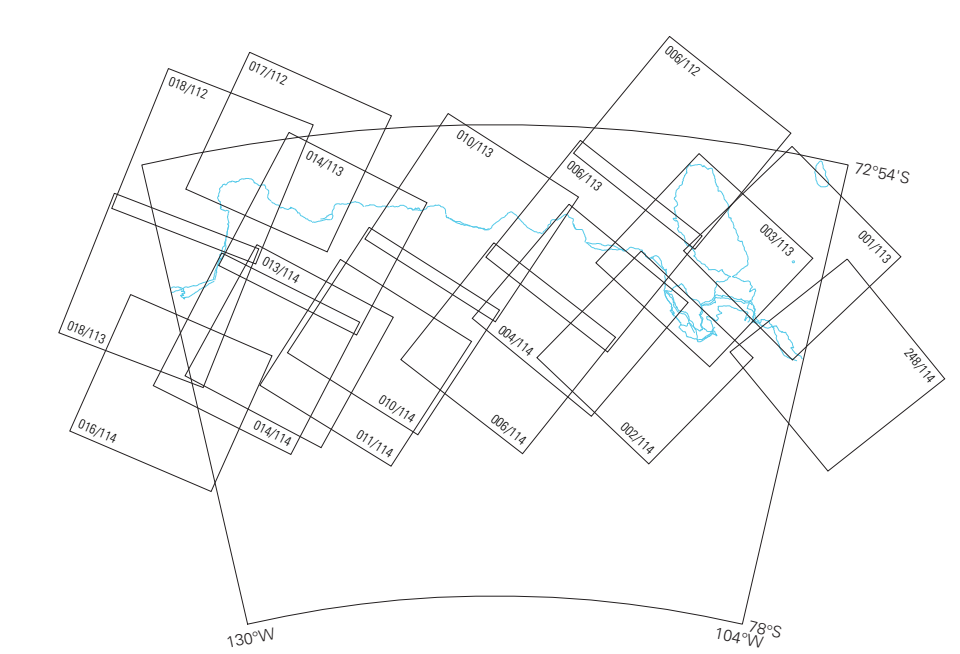
Index map of the planned 24 coastal-change and glaciological maps of Antarctica at 1:1,000,000 scale. Bakutis Coast area map is shaded.

EXPLANATION

- Ice front—RADARSAT imagery; image acquisition dates: 9 September–20 October 1997
- Ice front—Middle 1980s to early 1990s imagery; date of observation shown
- Ice front—Early 1970s imagery; date of observation shown
- Iceberg tongue—Early 1970s imagery; date of observation shown
- Iceberg—Position of iceberg B22 on 11 March 2002
- Ice wall—Date of observation shown
- Grounding line—Date of observation shown
- Ice ramp—Within a grounding line and (or) ice wall
- Ice rise—Within a grounding line and (or) ice wall
- Flow line
- Ridge line on ice
- Topographic contour, in meters—Modified from RAMP digital elevation model (Byrd Polar Research Center)
- Unnamed outlet glacier or ice stream—Identified by World Glacier Monitoring Service geographic location code (AN7) and by latitude and longitude. See table 2 in pamphlet for description
- Named outlet glacier or ice stream
- Ice-velocity vector—Number shows ice velocity in kilometers per year (km a⁻¹)



Graph showing scale error of polar stereographic projection with standard parallel at 71°S. Modified from Slevers and Bennet (1989).



INDEX MAP TO LANDSAT 1 MSS COVERAGE FROM EARLY 1970s

Path/Row	Image No.	Date
020/114	1295-1404	13 Feb 75
020/113	1191-14270	30 Jan 75
020/114	1174-14205	13 Jan 75
020/113	1157-14383	27 Dec 72
004/114	1177-14550	16 Jan 75
000/112	1180-14551	30 Dec 72
000/113	1180-14554	30 Dec 72
000/114	1180-14560	30 Dec 72
010/113	1488-15160	23 Nov 75
010/114	1488-15163	23 Nov 75
011/114	1446-15191	16 Dec 72
010/114	1480-15324	26 Nov 73
014/113	1482-15390	27 Nov 73
010/114	1480-15392	27 Nov 73
010/114	1152-15523	22 Dec 72
011/112	1152-15524	22 Dec 72
010/112	1172-16026	11 Jan 75
010/113	1172-16042	11 Jan 75

INDEX MAP TO LANDSAT 4 AND 5 MSS AND TM COVERAGE FROM MID-1980s TO EARLY 1990s

Path/Row	Image No.	Date
001/113	51025-14104	21 Dec 86
001/114	51025-14111	21 Dec 86
001/114	42347-14240	18 Dec 88
004/113	42316-14241	22 Jan 89
004/113	42400-14420	09 Feb 89
004/114	42316-14241	22 Jan 89
000/112	56276-14521	02 Jan 88
000/113	56276-14524	02 Dec 84
000/113	42728-14525	02 Jan 88
000/113	41968-14580	02 Jan 88
000/113	42748-16079	22 Jan 88
011/112	51031-15122	27 Dec 90
011/112	51029-15244	24 Dec 88
011/113	51029-15250	24 Dec 88
010/112	42348-15522	24 Dec 88
010/112	42350-16013	25 Feb 88
010/113	42350-16015	25 Feb 88

*LandSAT MSS image was used only for velocity measurements. *LandSAT TM image was also used for velocity measurements.

Maps used in compilation and analysis:
U.S. Geological Survey Antarctica 1:250,000-scale Topographic Reconnaissance Series
Bear Peninsula
Crary Mountains
Dean Island
Main Peninsula
McCluskey Mountains
Mount Galla
Mount Hampton
Mount Murphy
Mount Sully
Toney Mountain
U.S. Geological Survey 1:500,000-scale Antarctica Sketch Maps
Bakutis Coast-Marie Byrd Land
Hobbs Coast-Marie Byrd Land
Thurston Island-Jones Mountains
Other information sources:
RADARSAT SAR-1 Image Map Mosaic of Antarctica (RADARSAT Antarctic Mapping Project (BAMAP), Byrd Polar Research Center, The Ohio State University; see full reference citation in accompanying pamphlet)
Antarctic digital database user's guide and reference manual (British Antarctic Survey and others, 1993; see full reference citation in accompanying pamphlet). This manual accompanies a CD-ROM. The Antarctic Digital Database (ADD) project provides a digital coastline and other cartographic information of Antarctica.
Map projection parameters have been used in accordance with the recommendations of the Working Group on Geodesy and Geographic Information of the Scientific Committee on Antarctic Research (SCAR). The accuracy of topographic features in relation to the graticule and to the satellite observation stations is approximately 1 mm (equals 1 km on the ground).
Image base from RADARSAT Image Mosaic of Antarctica (125-meter pixel)

AUTHOR AFFILIATIONS
¹Scott Polar Research Institute, University of Cambridge, Lensfield Road, Cambridge CB2 1ER, United Kingdom.
²U.S. Geological Survey, 284 Woods Hole Road, Woods Hole, MA 02543-1598.
³U.S. Geological Survey, Reston, VA 20192.
⁴U.S. Geological Survey, 2255 North Gemini Drive, Flagstaff, AZ 86001-1689.

COASTAL-CHANGE AND GLACIOLOGICAL MAP OF THE BAKUTIS COAST AREA, ANTARCTICA: 1972–2002

By
Charles Swithinbank,¹ Richard S. Williams, Jr.,² Jane G. Ferrigno,³ Kevin M. Foley,³ and Christine E. Rosanova⁴
2003

NOTE
This 2003 edition is the second edition of Map I-2600-F; the first edition, a prototype map using only annotated Landsat images for two time intervals and conventional ground-control points, was published in 1997 (Swithinbank and others, 1997). The second edition is intended to supersede, not supplement, the first edition. It is recommended that the second edition be cited as follows:
Swithinbank, Charles, Williams, R.S., Jr., Ferrigno, J.G., Foley, K.M., and Rosanova, C.E., 2003, Coastal-change and glaciological map of the Bakutis Coast area, Antarctica, 1972–2002, U.S. Geological Survey Geologic Investigations Series Map I-2600-F (2d ed.), 1 sheet, scale 1:1,000,000, with 10-p. pamphlet.

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