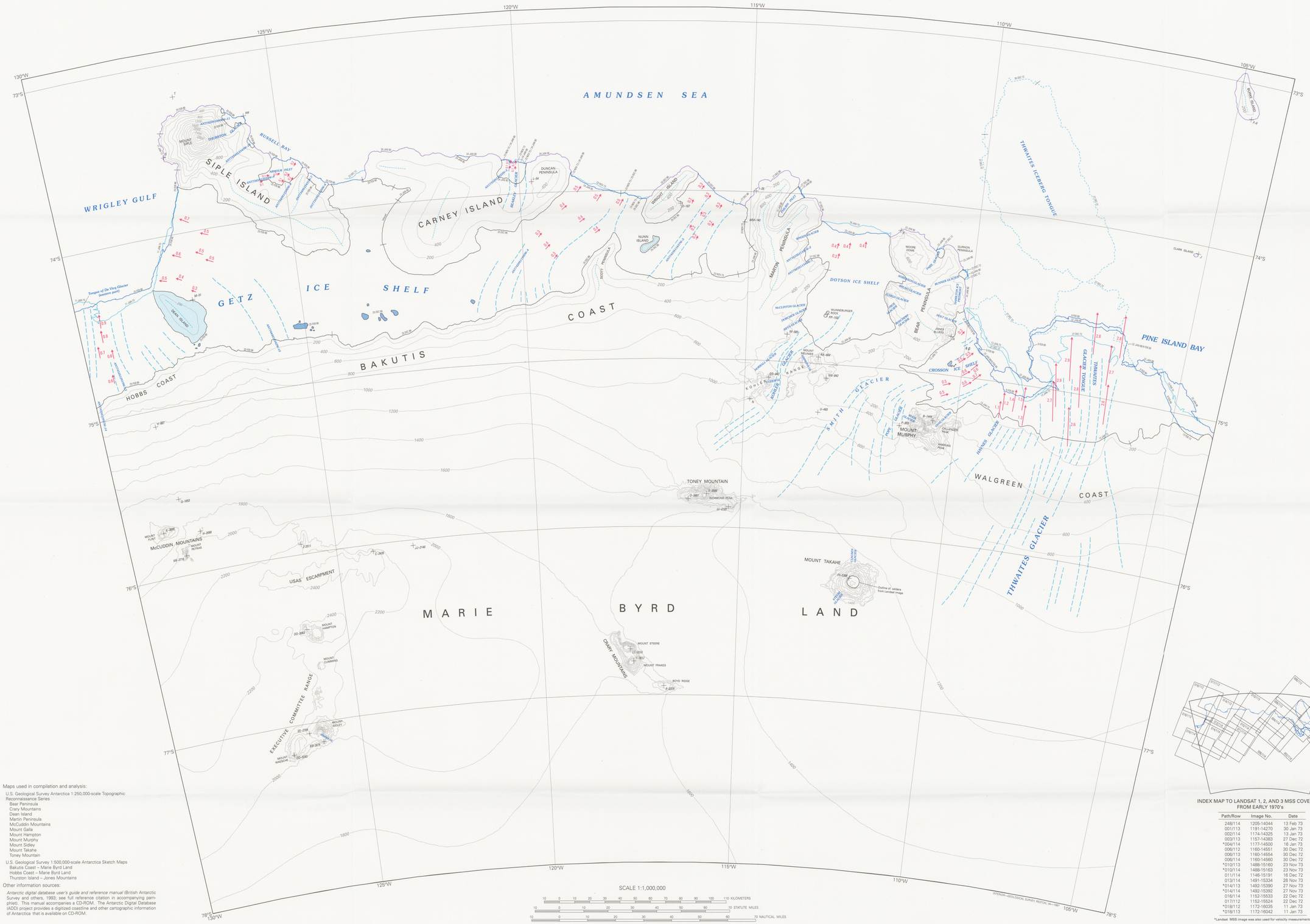
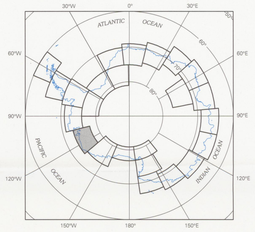
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

Prepared in cooperation with the
SCOTT POLAR RESEARCH INSTITUTE, UNIVERSITY OF CAMBRIDGE, U.K.

GEOLOGIC INVESTIGATIONS
MAP I-2600-F
Explanatory pamphlet accompanies map

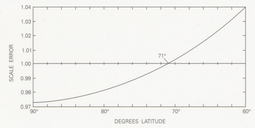




LOCATION MAP

EXPLANATION

- **Ice front**—Date of earlier observation shown
- **Ice front**—Date of later observation shown
- **Ice wall**—Date of observation shown
- **Grounding line**—Date of observation shown
- **Ice rumple**—Within a grounding line and (or) ice wall
- **Ice rise**—Within a grounding line and (or) ice wall
- **Iceberg tongue**—Date of observation shown
- **Flow line**
- **Ridge line on ice**
- **Topographic contour in meters**
- AN77427S11344W-1 **Unnamed outlet glacier or ice stream**—Identified by location code (AN7), latitude and longitude, and numbered sequence on map (suffix). See table 3 in pamphlet for description
- KEYS GLACIER **Named outlet glacier or ice stream**
- 1.3 **Ice-velocity vector**—Velocity in km a^{-1} (1.0 cm = 1 km a^{-1})
- X-2695 **Geodetic control station**—See table 1 in pamphlet for description. Number, where shown, gives elevation in meters



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

Maps used in compilation and analysis:

U.S. Geological Survey Antarctica 1:250,000-scale Topographic Reconnaissance Series
- Bear Peninsula
- Crary Mountains
- Dean Island
- Martin Peninsula
- McCuddin Mountains
- Mount Galla
- Mount Hampton
- Mount Murphy
- Mount Sidley
- Mount Takahe
- 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:

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 digitized coastline and other cartographic information of Antarctica that is available on CD-ROM.

SCALE 1:1,000,000

10 0 10 20 30 40 50 60 70 80 90 100 110 KILOMETERS
10 0 10 20 30 40 50 60 70 STATUTE MILES
10 0 10 20 30 40 50 60 70 NAUTICAL MILES

POLAR STEREOGRAPHIC PROJECTION – STANDARD PARALLEL 71°S

CONTOUR INTERVAL 200 METERS
(Contours modified from SCAR Antarctic Digital Database CD-ROM)
DATUM: MEAN SEA LEVEL

Map projection parameters have been used in accordance with the recommendations of the Working Group on Geodesy and Cartographic 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 1mm (equals 1km on the ground).

INDEX MAP TO LANDSAT 1, 2, AND 3 MSS COVERAGE FROM EARLY 1970's

Path/Row	Image No.	Date
248/114	1205-14044	13 Feb 73
001/113	1191-14270	30 Jan 73
002/114	1174-14325	13 Jan 73
003/113	1157-14383	27 Dec 72
*004/114	1177-14500	16 Jan 73
006/112	1160-14551	30 Dec 72
006/113	1160-14554	30 Dec 72
006/114	1160-14560	30 Dec 72
*010/113	1488-15160	23 Nov 73
*010/114	1488-15163	23 Nov 73
011/114	1146-15191	16 Dec 72
013/114	1491-15334	26 Nov 73
*014/113	1492-15390	27 Nov 73
*014/114	1492-15392	27 Nov 73
016/114	1152-15533	22 Dec 72
017/112	1152-15524	22 Dec 72
*018/112	1172-16035	11 Jan 73
*018/113	1172-16042	11 Jan 73

*Landsat MSS image was also used for velocity measurements.

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

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 86
004/113	42016-14341	22 Jan 88
004/113	42400-14430	09 Feb 89
004/114	42016-14343	22 Jan 88
†006/112	50276-14521	02 Dec 84
†006/113	50276-14524	02 Dec 84
*006/113	42734-14652	09 Jan 90
*008/113	41996-14580	02 Jan 88
008/113	42748-15073	23 Jan 90
011/112	51031-15122	27 Dec 86
013/112	51029-15244	25 Dec 86
*013/113	51029-15250	25 Dec 86
*016/112	42749-15502	24 Jan 90
*018/112	42050-16013	25 Feb 88
*018/113	42050-16015	25 Feb 88

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

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COASTAL-CHANGE AND GLACIOLOGICAL MAP OF THE BAKUTIS COAST, ANTARCTICA: 1972–1990

By
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