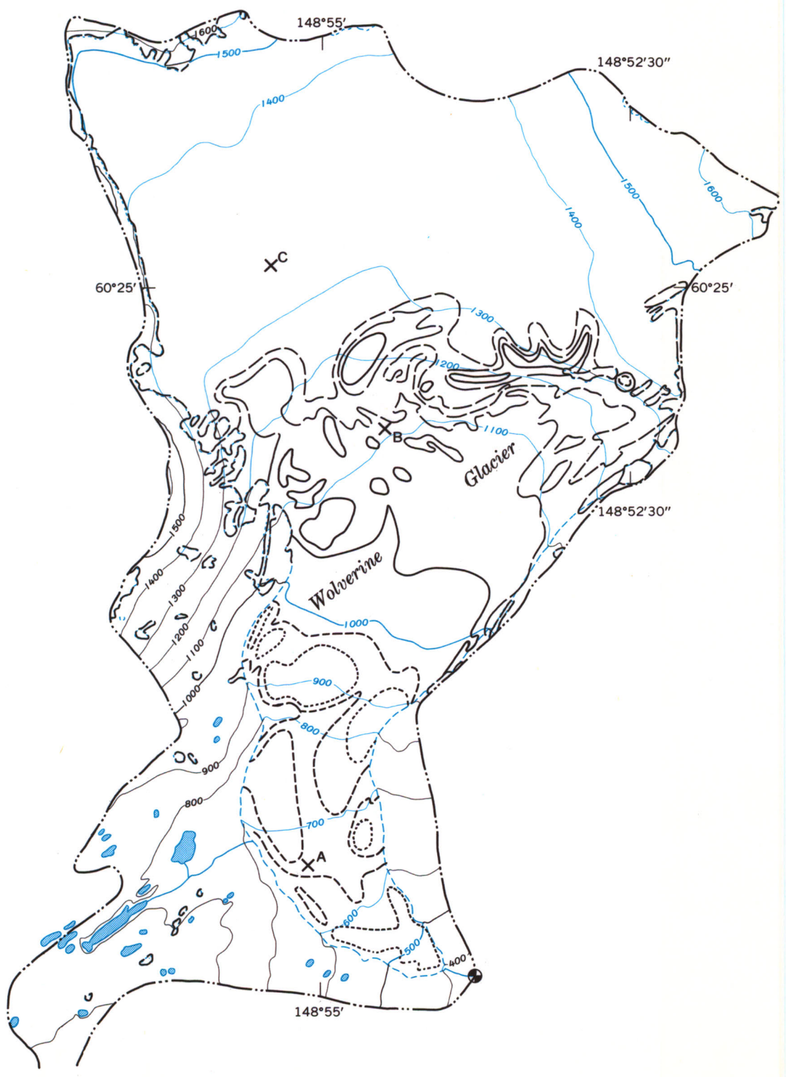


Base from U.S. Geological Survey
Seward B-5 and B-6 1:63,360, 1951

A. INSTRUMENT LOCATIONS AND SELECTED TRANSIENT SNOWLINES

EXPLANATION

Index station on glacier, and identification

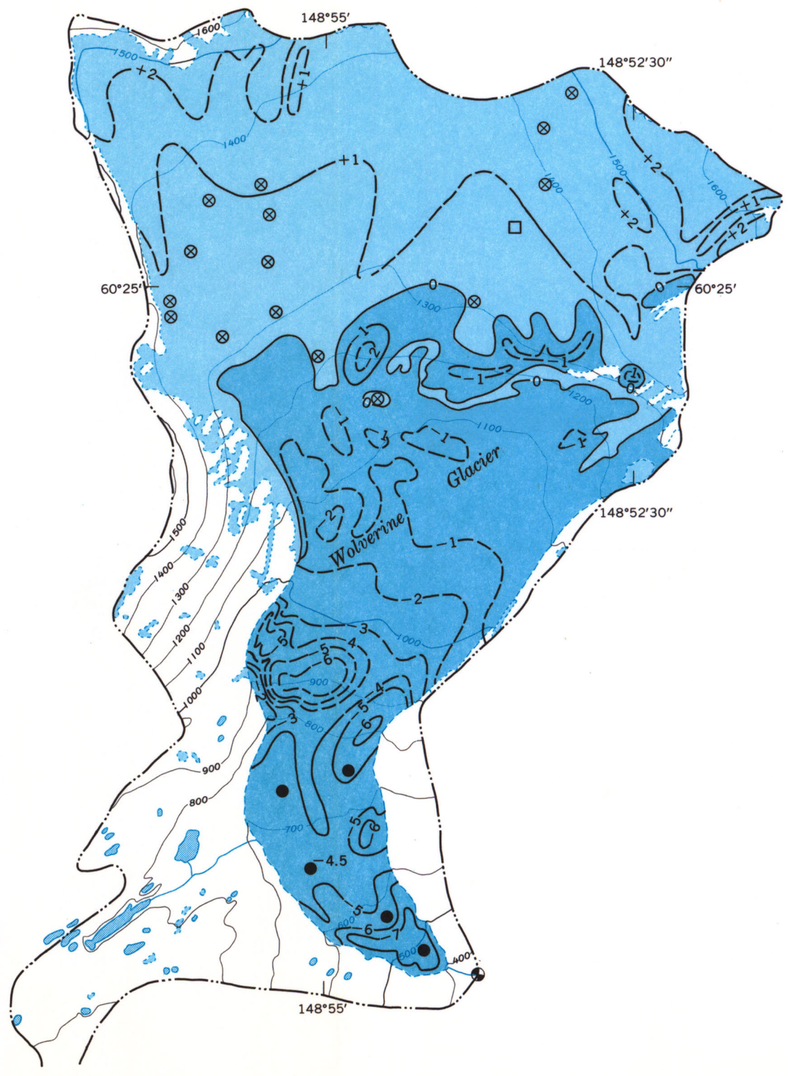
Stream-gaging station

April 23
June 17
July 18
Sept 3 (Snow edge)
Sept 3 (Firn edge)

Snowlines identified by date

Boundary of glacier ice
Coincides with September 3 snow edge snowline

Basin boundary



Base from U.S. Geological Survey
Seward B-5 and B-6 1:63,360, 1951

D. ANNUAL FIRN AND ICE BALANCE, $b_a(fi)$, SEPTEMBER 30, 1966

EXPLANATION

Accumulation area
Area of net firnification

Ablation area
Area of glacial ice and old firn

-4.5
Stake
Number is balance, in meters

Snow probe

Snow pit

Gaging station

+1
Line of equal annual firn and ice balance
Dashed where approximately located. Interval 1 meter. Based on measurements at stakes, snow probes, and snow pits and on transient snowline positions throughout the summer in the ablation areas and distribution of convex and concave surfaces in the accumulation areas

Boundary of glacier ice

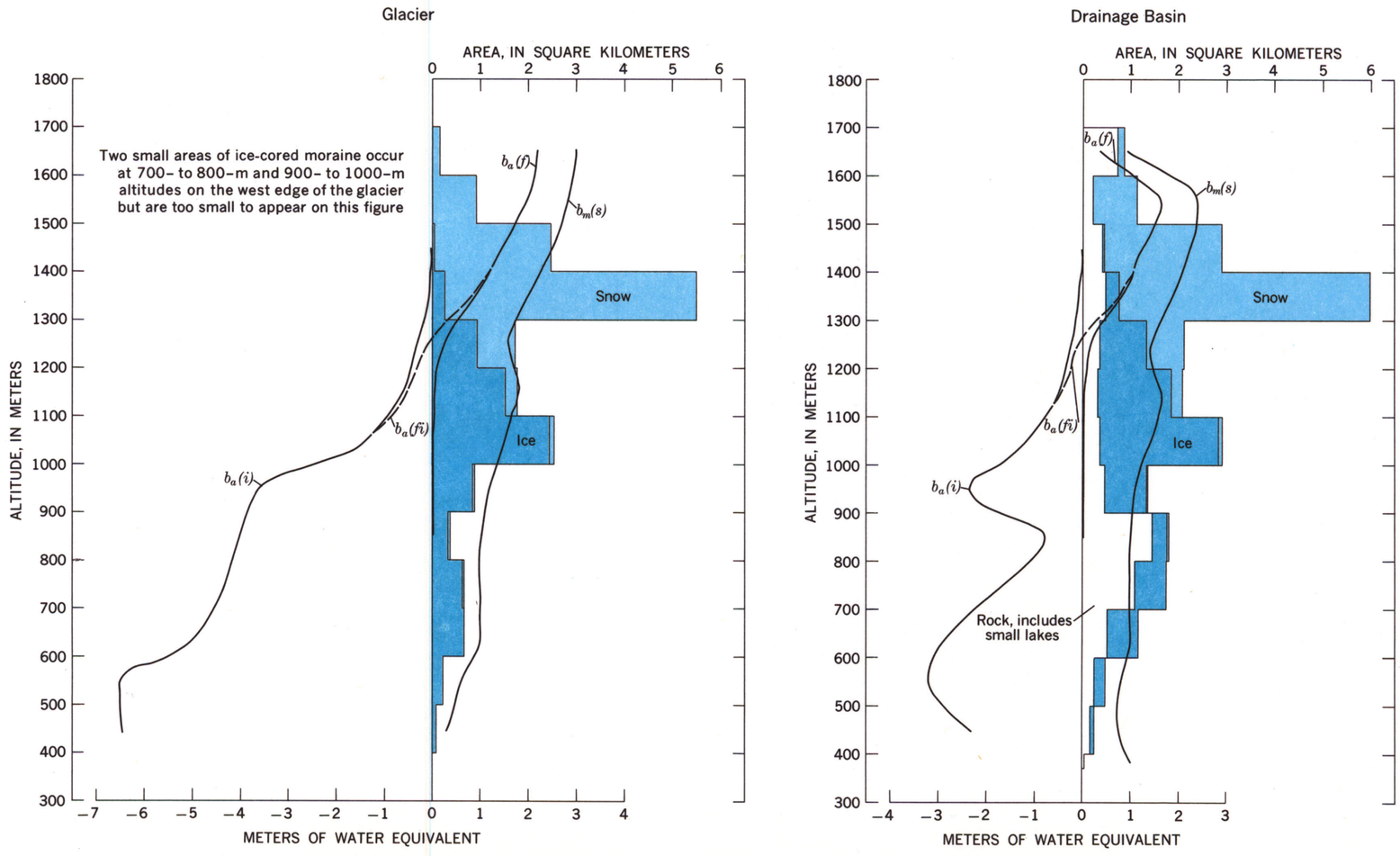
Basin boundary

SCALE 1:40 000

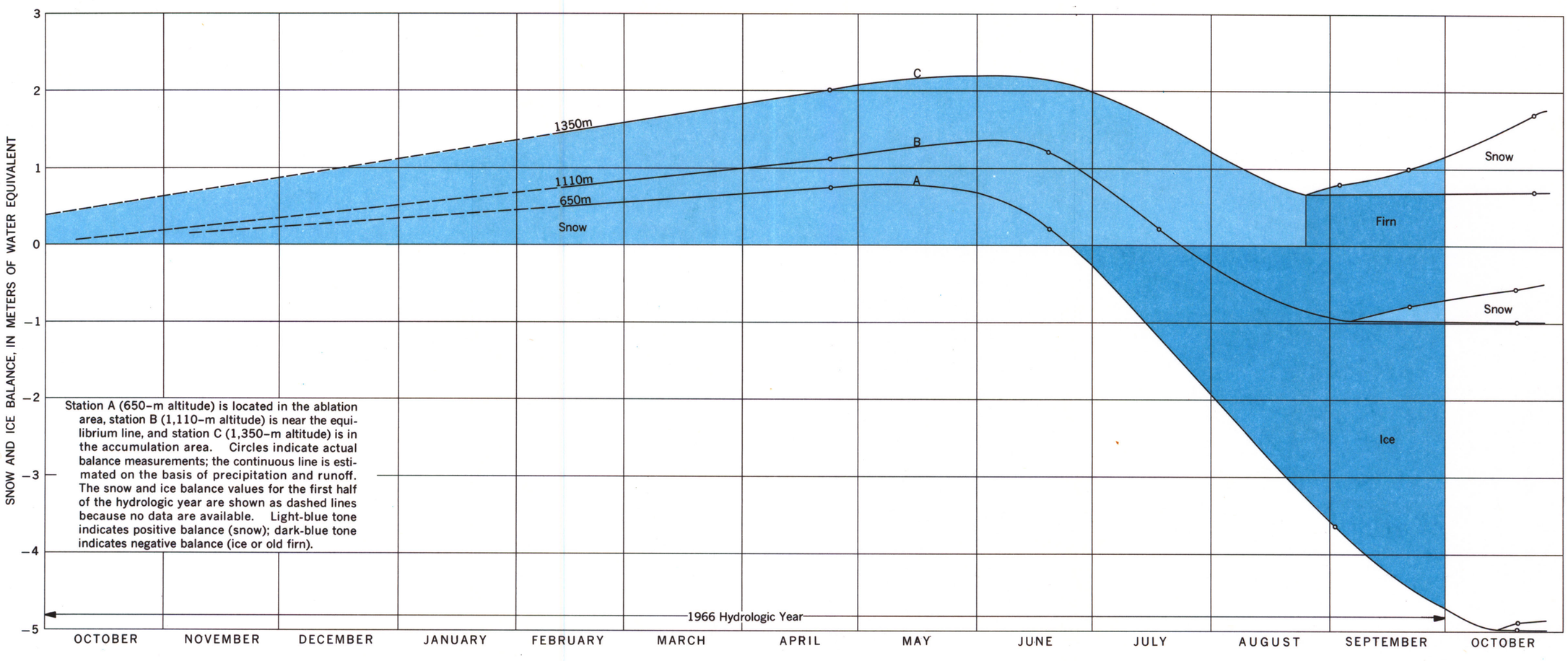
1 .5 0 1 2 3 4 5 KILOMETERS

1 ½ 0 1 2 MILES

CONTOUR INTERVAL 100 METERS
DATUM IS PRE-1964 MEAN SEA LEVEL



B. LATE-WINTER SNOW BALANCE, $b_m(s)$, ANNUAL FIRNIFICATION, $b_a(f)$, AND ANNUAL ICE BALANCE, $b_a(i)$, AS FUNCTIONS OF ALTITUDE



C. ICE BALANCE AT THREE INDEX STATIONS

MAPS AND GRAPHS SHOWING DATA FOR 1966 HYDROLOGIC YEAR WOLVERINE GLACIER, KENAI MOUNTAINS, ALASKA

429-265 O - 71 (In pocket)