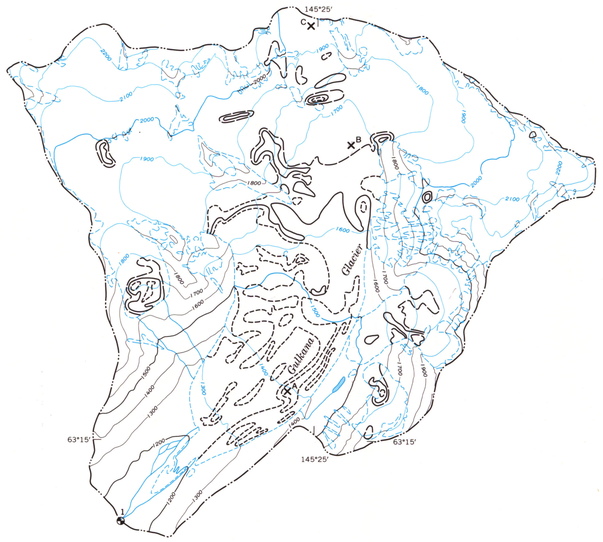


Updated and modified by authors to 1966 conditions

A. INSTRUMENT LOCATIONS AND SELECTED TRANSIENT SNOWLINES

EXPLANATION

A — Index station on glacier, and identification

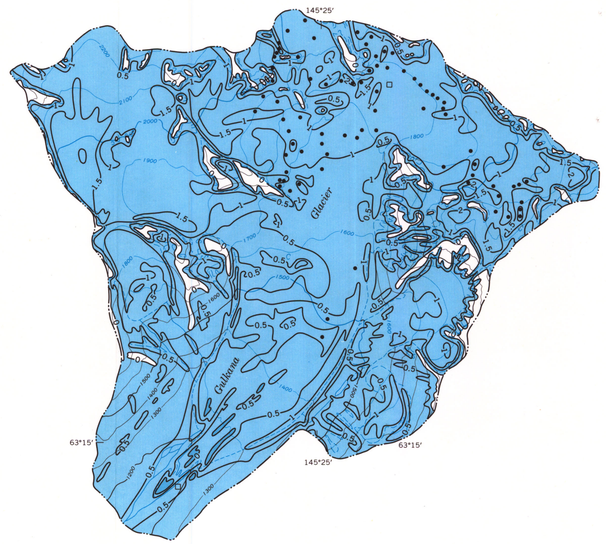
1 — Stream-gaging station and number
Installed September 16, 1966

June 25
July 13
July 26

Snowlines identified by date

Boundary of glacier ice

Basin boundary



Updated and modified by authors to 1966 conditions

B. LATE-WINTER SNOW BALANCE, $b_m(s)$, MAY 18, 1966

EXPLANATION

Area of snow cover

Ablation area
Area of glacial ice and old firn

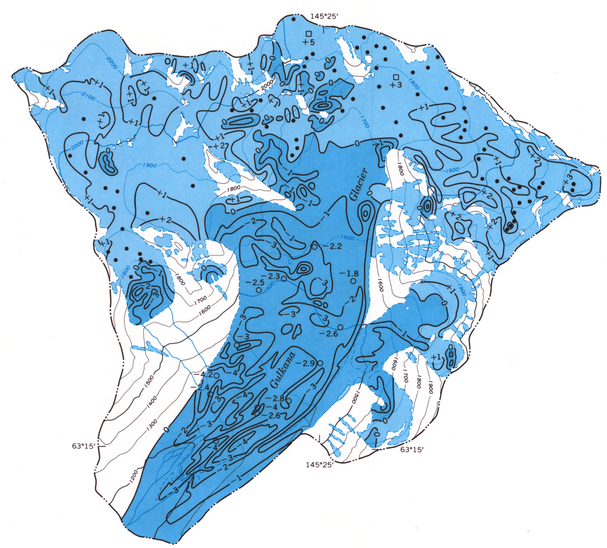
Snow probe
Snow depth measurements obtained

Snow pit
Snow density measurements obtained

0.5 — Line of equal late winter snow balance
Dashed where approximately located. Interval 0.5 meter. Based on measurements at snow probes and pits and on transient snowline positions later in season. Lines in the accumulation area of the glacier are shaped after the distribution of convex and concave areas and the location of large snow dunes

Boundary of glacier ice

Basin boundary



Updated and modified by authors to 1966 conditions

E. ANNUAL FIRN AND ICE BALANCE, $b_n(fi)$, SEPTEMBER 30, 1966

EXPLANATION

Accumulation area
Area of net firnification

Ablation area
Area of glacial ice and old firn

−1.8 — Stake
Number is balance, in meters

Snow probe

+3 — Snow pit
Number is snow accumulation, in meters

−2 — 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

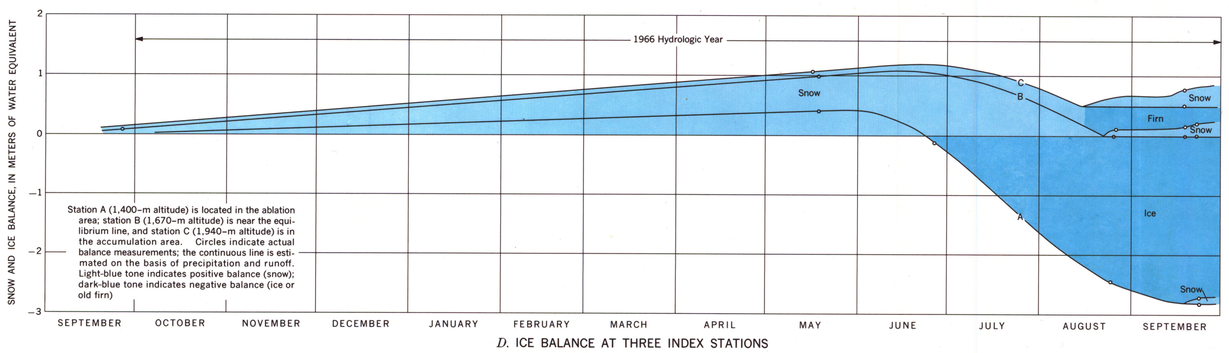
Basin boundary

SCALE 1:40 000

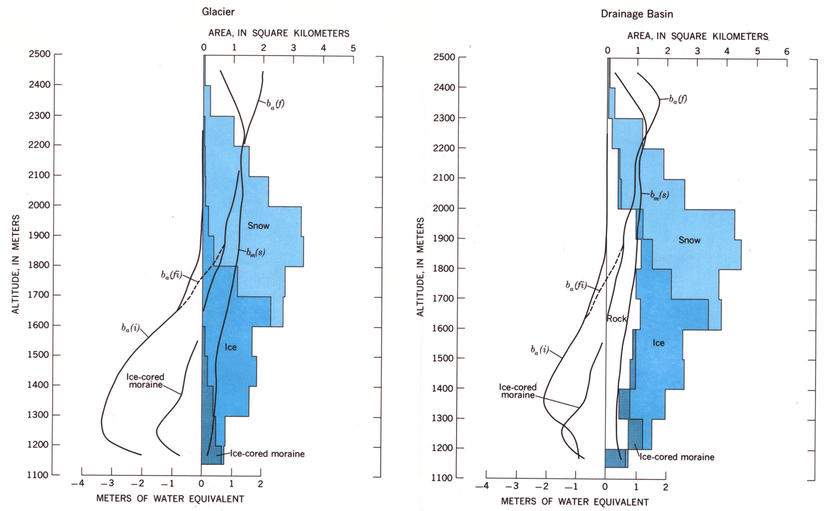
1 .5 0 1 2 3 4 5 KILOMETERS

1 ½ 0 1 2 MILES

CONTOUR INTERVAL 100 METERS
DATUM IS MEAN SEA LEVEL



D. ICE BALANCE AT THREE INDEX STATIONS



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

MAPS AND GRAPHS SHOWING DATA FOR 1966 HYDROLOGIC YEAR GULKANA GLACIER, ALASKA RANGE, CENTRAL ALASKA

429-265 O - 71 (In pocket)