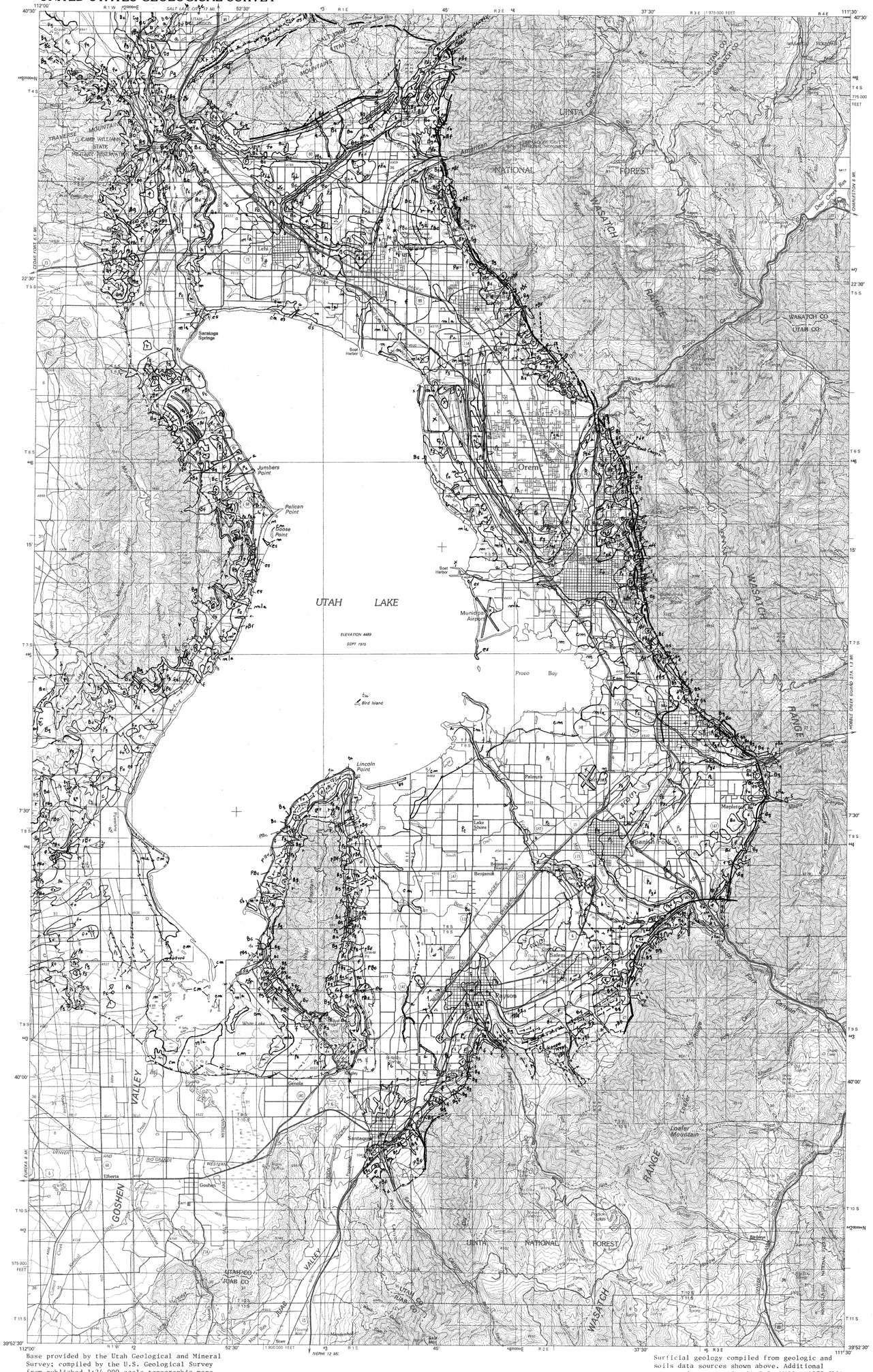
UT DNR Library
3258

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

MISCELLANEOUS FIELD STUDIES
MAP MF-1477
WASATCH FRONT, UTAH



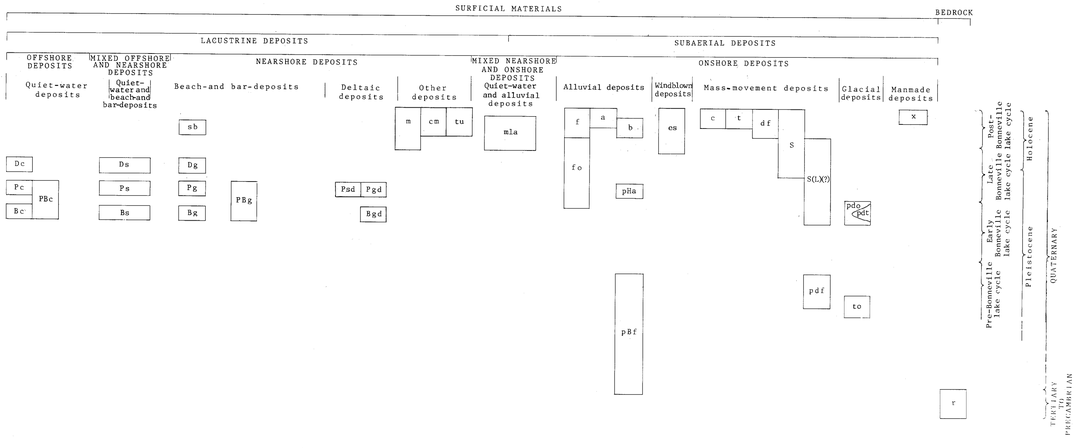
Base provided by the Utah Geological and Mineral Survey; compiled by the U.S. Geological Survey from published 1:24,000-scale topographic maps

Surficial geology compiled from geologic and soils data sources shown above. Additional reconnaisance mapping by R.D. Miller 1975-1981

INDEX TO 1:24,000--SCALE MAPS
(PR) Photorevised

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20

1 Jordan Narrows-1951 (75PR)
2 Lehi-1951 (75 PR)
3 Timpanogos Cave-1948 (75 PR)
4 Aspen Grove-1948 (75 PR)
5 Saratoga Springs-1951 (75 PR)
6 Pelican Point-1950 (75 PR)
7 Orem-1948 (75 PR)
8 Bridal Veil Falls-1948 (69 PR)
9 Soldiers Pass-1950 (69 PR)
10 Lincoln Point-1950 (69 PR)
11 Provo-1948 (75 PR)
12 Springville-1948 (75 PR)
13 Goshen Valley North-1950 (75 PR)
14 West Mountain-1950 (75 PR)
15 Spanish Fork-1948 (75 PR)
16 Spanish Fork Peak-1949 (75 PR)
17 Goshen-1978
18 Santaquin-1978
19 Payson Lakes-1978
20 Birdseye-1978



LIST OF MAP UNITS

Dc	Stansbury Lake silt and clay
Pc	Provo Lake silt and clay
Bc	Bonneville Lake silt and clay
PBc	Provo and Bonneville Lakes undifferentiated silt and clay
Ds	Stansbury Lake sand
Ps	Provo Lake sand
Bs	Bonneville Lake sand
sb	Modern bar sand
Dg	Stansbury Lake sand and gravel
Pg	Provo Lake sand and gravel
Bg	Bonneville Lake sand and gravel
PBg	Provo and Bonneville Lakes undifferentiated sand and gravel
Psd	Provo Lake deltaic sand
Pgd	Provo Lake deltaic sand and gravel
Bgd	Bonneville Lake deltaic sand and gravel
m	Marsh silt and clay
cm	Historic Utah Lake silt, clay, and sand
tu	Utah Lake tufa
mla	Mixed lake and alluvial silt and sand
f	Young alluvial fan deposits
fo	Old alluvial fan deposits
a	Alluvial deposits
b	Terrace alluvial deposits
pHa	Pre-Holocene alluvial deposits
pBf	Pre-Bonneville Lake-cycle alluvial fan deposits
es	Eolian sand
c	Colluvial deposits
t	Talus deposits
df	Debris-flow deposits
s	Landslide deposits
s(L)(?)	Possible landslide deposits, movement by lateral spreading
pdf	Pre-Bonneville Lake-cycle slide debris and flow deposits
pdo	Pinedale age glacial outwash
pdt	Pinedale age glacial till
to	Older glacial till
x	Manmade fill
r	Bedrock, undifferentiated

EXPLANATION

CONTACT--Approximately located. Hachures indicate erosional scarp along contact and point downslope

FAULT AND (OR) LINEAMENT--Approximately located. Traced from surface displacement or alinement; faults that do not displace surface are not shown

SCARP--Erosional scarp within a single geologic unit; hachures point downslope

STEEP-WALLED CHANNEL

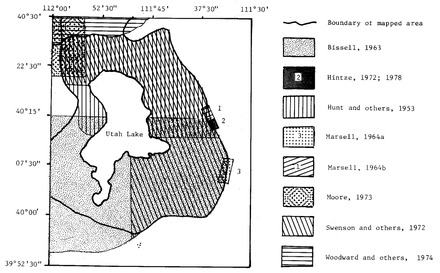
LANDSLIDE SCARP--Bounds source area of landslide or debris-flow deposits. Hachures point downslope. Symbols in parentheses indicate principal unit involved in the landslide

S—S—S SECONDARY SHORELINE SCARP--Hachures point downslope. Some shore strands are cut into underlying materials, others (symbols without hachures) consist of sand or sandy gravel deposits. Probably related to brief stillstands during lowering of lake. Principal shorelines coincide with contacts between deposits related to different lake stands

x—x LIMIT OF MAPPED SURFICIAL DEPOSITS

× GRAVEL PIT

DISTURBED AND (OR) EXCAVATED GROUND



SOURCES OF GEOLOGIC DATA

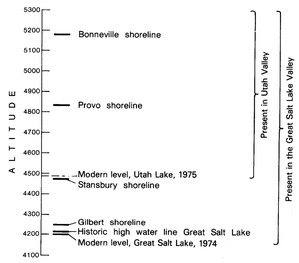
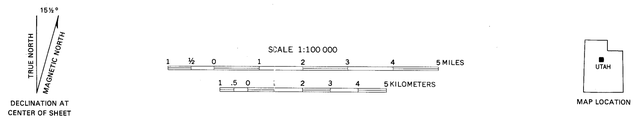


Figure 2.--Diagram showing approximate altitudes (in feet) of major shorelines of Lake Bonneville and the Great Salt Lake; altitudes vary locally because of differences in isostatic rebound.



SOUTHERN PART

SURFICIAL GEOLOGIC MAP ALONG PART OF THE WASATCH FRONT, GREAT SALT LAKE AND UTAH LAKE VALLEYS, UTAH

Compiled by
Robert D. Miller

1982

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1982

For sale by Branch of Distribution, U.S. Geological Survey, Box 25286, Federal Center, Denver, CO 80225