

SURFICIAL GEOLOGIC MAP OF NORTHERN GROWLER VALLEY, BARRY M. GOLDWATER AIR FORCE RANGE, SOUTHWESTERN ARIZONA

By
Philip A. Pearthree, Karen A. Demsey, and Jeanne E. Klawon

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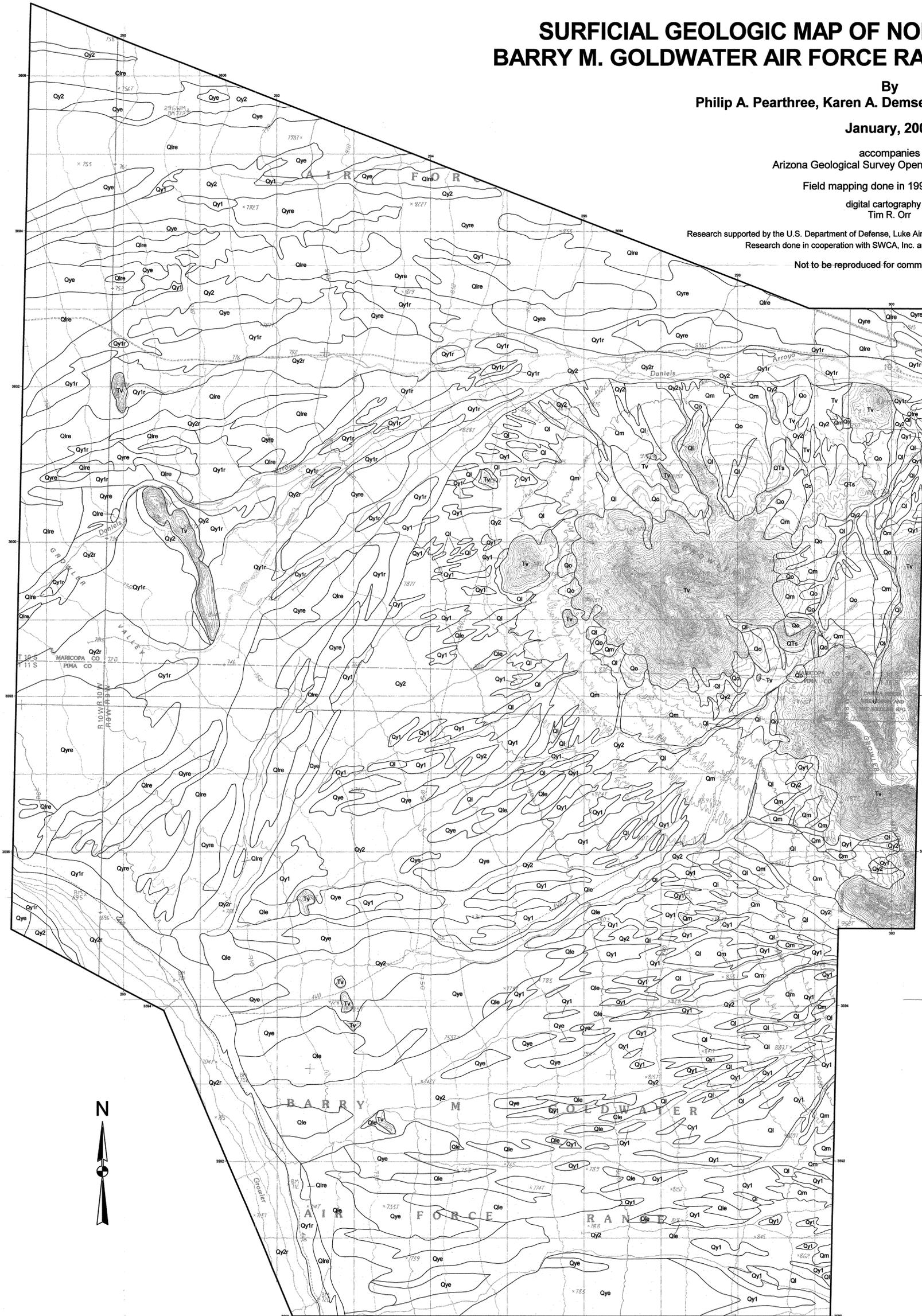
accompanies
Arizona Geological Survey Open-File Report 01-02

Field mapping done in 1997 and 1998

digital cartography by
Tim R. Orr

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MAP EXPLANATION

Geologic Contacts

- Accurately located contact (± 30 m)
- Map neat line

Geologic Map Units

Piedmont Alluvial Deposits

- Qy2** Late Holocene tributary alluvium (< 2 ka)
Channels, undissected floodplains, low terraces, and active or recently active alluvial fans deposited by piedmont tributary streams
- Qy1** Middle to early Holocene alluvium (2 to 10 ka)
Undissected terraces and alluvial fans deposited by piedmont tributary streams that are somewhat isolated from active fluvial systems
- Ql** Late Pleistocene alluvium (10 to 150 ka)
Weakly to moderately dissected alluvial fans and terraces deposited by piedmont tributary streams that are higher and either lighter-colored or grayer than surrounding Holocene surfaces
- Qm** Middle Pleistocene alluvium (150 to 750 ka)
Older relict fans deposited by piedmont tributary streams with moderate to strong soil development and well-developed, entrenched tributary drainage networks
- Qo** Early Pleistocene alluvium (750 ka to 2 Ma)
Oldest, deeply eroded relict fans deposited by piedmont tributary streams with moderate to strong soil development

Piedmont Eolian / Alluvial Mixed Units

- Qye** Holocene eolian and alluvial deposits (< 10 ka)
Mixed eolian coppice and young alluvium with minimal soil development
- Qle** Late Pleistocene alluvium and Holocene eolian deposits (< 150 ka)
Mixed young eolian coppice dunes and intermediate alluvium with weak to moderate, pebble-cobble pavements

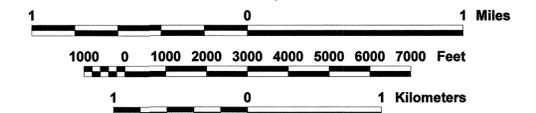
Deposits of Daniels Wash

- Qy2r** Late Holocene stream deposits (< 2 ka)
Sand, silt, clay, and gravel deposits in stream channels and on primary floodplains of the major washes
- Qy1r** Holocene stream terrace deposits (< 10 ka)
Generally fine-grained deposits associated with upper or secondary floodplains of major washes
- Qyre** Holocene stream terrace deposits and eolian deposits (< 10 ka)
Mixed low coppice dunes and intervening flat surfaces with minimal gravel lags and no pavement development
- Qlre** Late Pleistocene stream terrace deposits and Holocene eolian deposits (< 150 ka)
Mixed intermediate sandy to gravelly river terrace deposits and low coppice dunes

Bedrock Geology

- Qts** Late Tertiary deposits (2 to 10 Ma)
Deeply dissected, weakly to moderately consolidated relict alluvial fan deposits adjacent to the Growler Mountains
- Tv** Tertiary volcanic rock
Undivided basalt, andesite, rhyolite, and volcanic conglomerate

SCALE 1:24,000



INDEX MAP OF SOUTHWESTERN ARIZONA Showing the location of the Northern Growler Valley study area (OFR 01-02) and the Western Crater Range study area (OFR 01-03)

