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U.S. Department of the Interior
U.S. Geological Survey

Prepared in cooperation with the
National Park Service and Bureau of Land Management

Scientific Investigations Map 2900
Pamphlet accompanies map

Style Guide name: *MapStyleGuide_LMU_print_1sht_v1-1_01-15.pdf*
Note that this PDF file is an informational Style Guide only and does not contain any Paragraph or Character styles — to apply actual styles to a layout, please use the accompanying Illustrator Map Template file called *MapTemplate_LMU_print_1sht_v1-1_01-15.ai*

In the accompanying Map Template file, type specifications for each text element have been built as Paragraph Styles (for example, Map Series Headnote is specified as Univers 67 Bold Condensed, 14 pt, 17 pt leading). In addition, a few special type formats have been built as Character Styles (for example, map-unit names and ages in the LMU are specified as Times New Roman Bold, 10 pt, 12 pt leading). The styles are accessible from the Paragraph Styles and Character Styles palette windows.

Note also that the template contains examples of only the most basic, fundamental elements that will appear on a typical map layout. Also, the small size of the map layout and of the map itself is for example purposes only — it is not intended to restrict the actual size of a map or map layout. In reality, many factors (for example, the size of the map, the number of map units and symbols, and the presence of cross sections, tables, or figures) will affect the actual size of a map layout and the final positioning of map elements.

Before finalizing layout, delete any style names, notes, arrows, or guides, as well as any outlines of text boxes, image area, and map layout (artboard) area.

Important note about applying type styles in the accompanying Map Template file to a layout:
Sometimes type that has been formatted using styles will either change to Myriad font or revert back to its "pre-Style" formatting after certain functions such as copying and pasting are performed. If a "+" appears after the style name in the Paragraph Styles palette when type in a text element is selected, then one of three things has likely happened: the style has not been fully applied to that type; the font has changed to Myriad; or the type has reverted to its "pre-Style" formatting. Clicking once more on the style name in the palette will apply the style completely and cause the "+" after the style name to disappear.

Please be advised that the contents of this Style Guide and the accompanying Map Template file are for example purposes only and should not be used as guidelines for the representation of actual stratigraphic relations or other geologic situations.

Paragraph Styles built into the accompanying Map Template file:
(list of paragraph styles with specifications)

Fonts used in the accompanying Map Template file:
Univers 47 Condensed Light
Univers 47 Condensed Light Oblique
Univers 57 Condensed
Univers 57 Condensed Oblique
Univers 67 Condensed Bold
Univers 67 Condensed Bold Oblique
Times New Roman
Times New Roman Bold
Times New Roman Oblique
FGDCGeoAge
Arial [*in mean declination arrow, scale, and state location map*]
Arial Italic [*dip values*]

Character Styles built into the accompanying Map Template file:
(list of character styles)

CORRELATION OF MAP UNITS

[See Description of Map Units (in pamphlet) for precise unit ages]

UNCONSOLIDATED DEPOSITS

Qu — Holocene and Pleistocene — QUATERNARY

BEDROCK

NORTH SLOPE SUBTERRANE

KLIPPEN OF ENDICOTT MOUNTAINS AND DE LONG MOUNTAINS SUBTERRANES AND TOZITNA TERRANE NEAR MOUNT ANNETTE

Ki, Kksc

Volcanic Rocks

Kv, Kp, Kpt, Kpft, Kpwt, Kplt

Endicott Mountains Subterrane

Kk, Ko, Ke — Lower Cretaceous — CRETACEOUS

Unconformity

KPs, ThPss, Thss — TRIASSIC / PERMIAN

Tbp, Tbpt, Tbv, Tbpft, Tbpwt, Tbplt — TRIASSIC

Volcanic Rocks

LIST OF MAP UNITS

[See Description of Map Units (in pamphlet) for complete unit descriptions. Unit ages from Brabb and others (2000)]

UNCONSOLIDATED DEPOSITS
Qu — Surficial deposits, undivided (Holocene and Pleistocene)

BEDROCK
[Modified from Brabb and others (2000)]

NORTH SLOPE SUBTERRANE
Ki — Ipewik unit (Lower Cretaceous)
Pahrump Group (Lower Cretaceous)
Kingston Peak Formation
Surprise Member
Siltstone
Kksc — Coarse-grained subunit

Volcanic Rocks
Kv — Volcanic rocks, undivided (Lower Cretaceous)
Kp — Pyroclastic deposits and rocks (Lower Cretaceous)
Kpt — Coarse-grained ash-flow tuff
Kpft — Fine-grained to massive ash-flow tuff
Kpwt — Welded silicic tuff unit
Kplt — Lithic-rich tuff layer

KLIPPEN OF ENDICOTT MOUNTAINS AND DE LONG MOUNTAINS SUBTERRANES AND TOZITNA TERRANE NEAR MOUNT ANNETTE

Endicott Mountains Subterrane
Kk — Kongakut Formation of the This, That, and the Other Group (Lower Cretaceous)
Ko — Otuk Formation of the This, That, and the Other Group (Lower Cretaceous)
Ke — Etivluk Formation of the This, That, and the Other Group, undivided (Lower Cretaceous)
KPs — Sedimentary rocks, undivided (Lower Cretaceous to Permian)

ThPss — Arenaceous sandstone, siltstone, and shale (Triassic to Permian)
Thss — Undulating ribbon beds of fossiliferous siltstone and shale (Triassic)

Volcanic Rocks
Tbv — Volcanic rocks, undivided (Triassic)
Tbp — Pyroclastic deposits and rocks (Triassic)
Tbpt — Coarse-grained ash-flow tuff
Tbpft — Fine-grained to massive ash-flow tuff
Tbpwt — Welded silicic tuff unit
Tbplt — Lithic-rich tuff layer

EXPLANATION OF MAP SYMBOLS
Contact—Solid where location is accurate; dashed where location is approximate; dotted where location is concealed
Gradational contact
Faults—Solid where location is accurate; dashed where location is approximate; dotted where location is concealed
Thrust fault—Sawteeth on upper plate
Detachment faults
Detachment fault within metamorphic core complex block—Hachures on upper plate. Forms boundary beneath unit
Listric fault at head of detachment—Ticks on upper plate
Master detachment fault—Hachures on upper plate

PLANAR POINT FEATURES
[May be combined with other point features at point of observation]
Strike and dip of bedding
Inclined
Vertical

recommended column width 4.5"–5.5" (27–33 picas); minimum 4" (24 picas), maximum 6" (36 picas); use same column width for all columns of LMU, symbol explanation, and text

Geologic Map of the Palo Alto 7.5' Quadrangle, California

By

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2015

[1]U.S. Geological Survey;
[2]California Geological Survey

SCALE 1:24 000
CONTOUR INTERVAL 40 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

Base from U.S. Geological Survey, Palo Alto, 1997
Universal Transverse Mercator projection

Geology mapped by E.H. Pampeyan, E.E. Brabb, and G.J. Saucedo, 1982–1986; minor revisions, 1991–1992. Potassium-argon geochronology by L.B.G. Pickthorn from samples collected July 1985
GIS database and digital cartography by Karen L. Wheeler
Edited by Jan L. Zigler; digital cartographic production by Kathryn Nimz
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