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The Utah Geological Survey (UGS) created this digital geologic map dataset from georeferenced scans of sheet 1 (geology) and sheet 2 (topography) of the published map. The UGS strived to preserve the original geology and topography of the author. In a few cases, minor modifications were necessary in order to close or attribute polygons, or to fit the published geology to a different base map and lake layer. The original geologic map was published at a scale of 1:125,000 on an integrated version of the U.S. Geological Survey (USGS) 1:250,000 topographic map normally published at 1:250,000 scale. The UGS prepared this dataset on newer and more spatially accurate USGS 1:100,000-scale 30' x 60' quadrangles and overlaid a newer layer containing all significant lakes within the quadrangle.

Minor modifications are:

(1) Added a new lake layer and then formed or slightly shifted geologic lines in locations where the geologic contacts and faults intersect lakes that are shown in slightly different locations on the published source geologic map.

(2) Moved topographic contacts in the Lake Canyon drainage slightly to the west to better fit the two lakes in the drainage and the topography of the new base map. Note that in most parts of the map the UGS did NOT move geologic features to fit the topography; however, the top layer will notice places where stratum does not fit canyon topography or geologic contacts do not fit properly over ridges.

(3) Attributed the two unrelated units near Fagnon Water Spring as "Qac" - older sediment deposits.

(4) Changed the attributes of three small polygons above Red Creek Reservoir and one polygon near the East Fork of Farm Creek from "Qac" - sand and gravel deposits of high stand and regressive deposits of Lake Bonneville to "Qdp" - older prominent deposits; since Lake Bonneville did not extend into any part of this map area.

(5) Changed the attributes of two polygons in the northeast corner of the Duchesne 30' x 60' quadrangle from "Qdp" - sand and gravel deposits of high stand of Lake Bonneville to "Qdp" - terrace gravels (the outcrops could also be interpreted as "Qdp" - beach deposits of Pleistocene age).

(6) Changed the attributes of a small polygon on the border of the Kings Peak and Duchesne 30' x 60' quadrangles, near the western edge of the map, from "Tc" - conglomerate (a unit described as being in the Salt Lake salt in the west portion of the 1° x 2° quadrangle) to "Tic" - conglomerate.

GEOLOGIC MAP OF THE EAST HALF OF THE SALT LAKE CITY 1° x 2° QUADRANGLE (DUCHEсне AND KINGS PEAK 30' x 60' QUADRANGLES), DUCHEсне, SUMMIT, AND WASATCH COUNTIES, UTAH, AND UINTEA COUNTY, WYOMING
by
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2010
(digitized and modified from U.S. Geological Survey Miscellaneous Investigations Series Map I-1997, 1992)

Base from USGS Duchesne (1982) and Kings Peak (1983) 30' x 60' Quadrangles
Shaded Relief derived from USGS 30-meter National Elevation Dataset
Lakes from USGS National High-Resolution Hydrography Dataset
Only selected lakes, those shown in the base map or those with an area greater than 15,000 m², are shown. Some of the lakes shown are actually marshes.
Projection: UTM Zone 12
Datum: NAD 1983
Spheroid: Clarke 1886

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UTAH
MAP LOCATION

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This map was created from geographic information system (GIS) data. It contains many features that do not meet UGS cartographic standards, such as automatically generated labels that may overlap other labels and lines.

