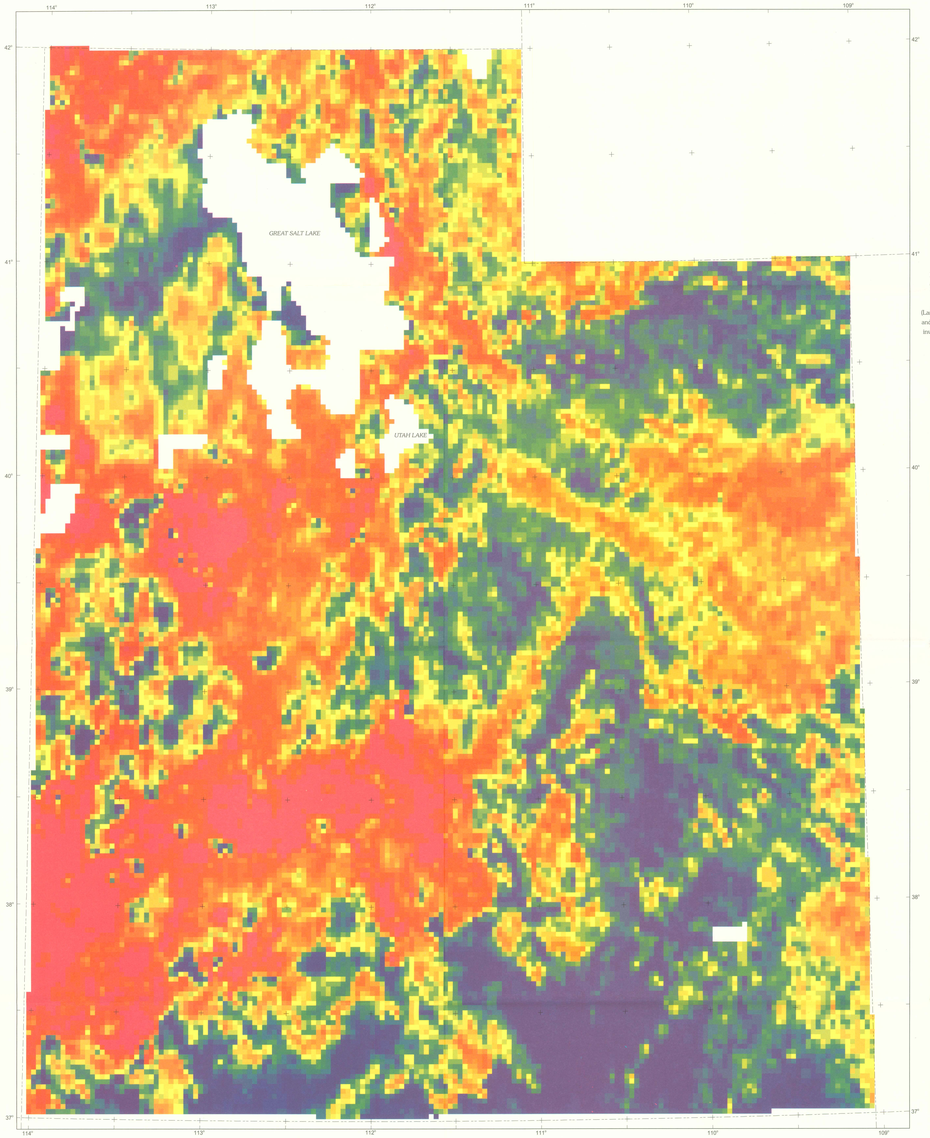


Planimetric base from National Technical Information Service, 1984
Lambert Conformal Conic projection

SCALE 1:1 000 000

25 0 25 50 75 100 MILES

25 0 25 50 75 100 KILOMETERS

EXPLANATION FOR MAP C
Thorium concentration, in parts per million equivalent thorium
(Larger labeled white areas are lakes and smaller white areas are areas of invalid data. See text for discussion)

MAP C. SURFACE CONCENTRATIONS OF THORIUM

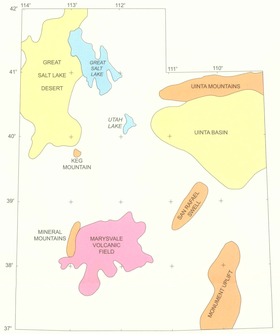
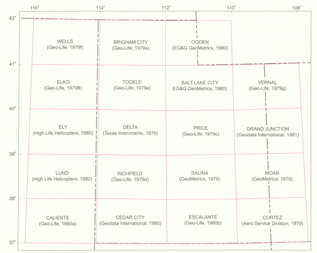


Figure 1. Location map of Utah showing selected regional features.

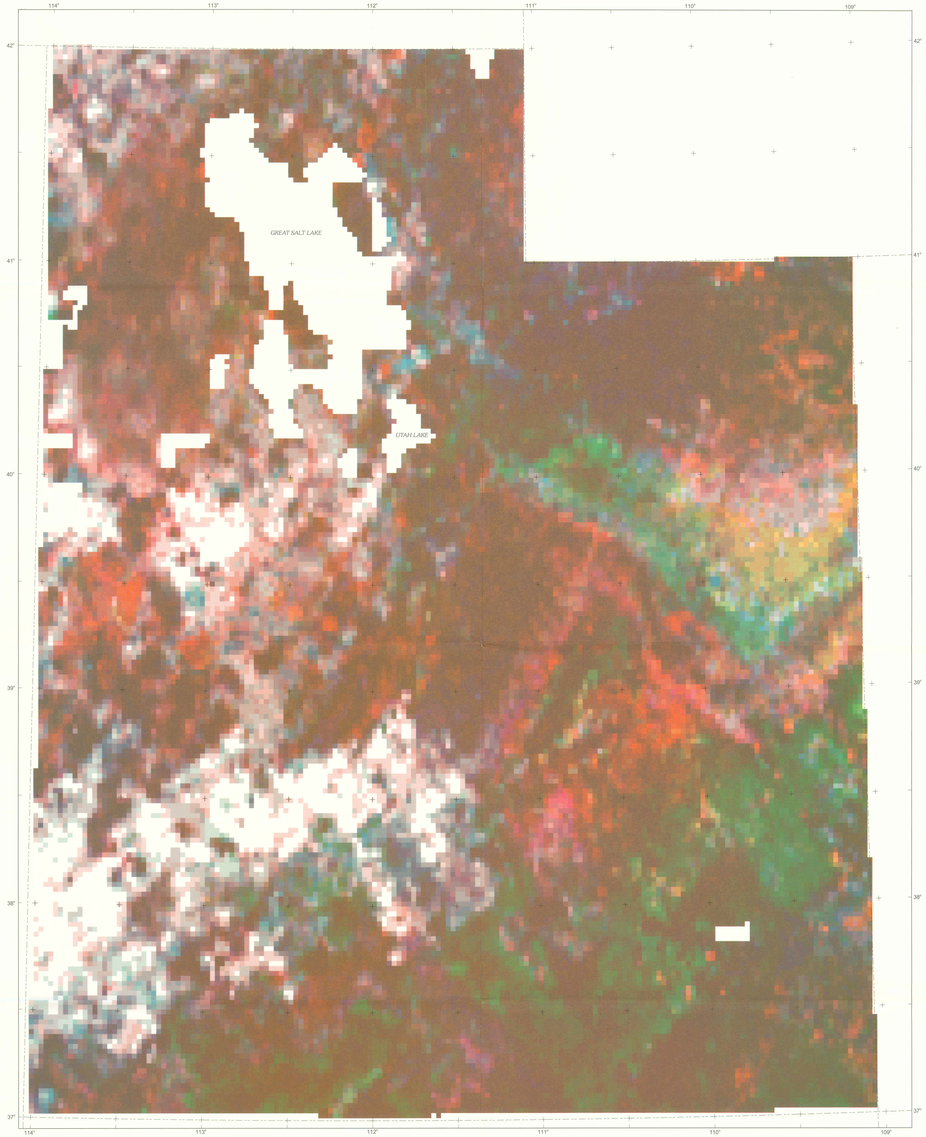


INDEX MAP OF 1° x 2° QUADRANGLES SHOWING REFERENCES FOR AERIAL GAMMA-RAY SURVEYS

EXPLANATION FOR MAP D

This color-composite map shows the relative proportions of potassium (K), uranium (U), and thorium (Th) in various shades of the primary colors green, red, and blue, respectively. This map should be interpreted only in terms of color patterns; for determination of concentration levels of an individual radioelement, the user should refer to maps A-C.

To interpret the color patterns, use diagrams 1 and 2 together. Diagram 1 shows a three-step progression—high, medium, and low—in the magnitude of values for each of the radioelements. Superimposing the three parts of diagram 1 results in a 27-box grid that depicts the combinations of the three three-step progressions. Diagram 2 shows the resulting colors for the grid when the primary colors are combined (additive color scheme). For example, when values for K are high and those for U and Th are low, the resulting color is green, the primary color for K. When values for U are high and those for K and Th are low, the resulting color is red, the primary color for U. When values for Th are high and K and U are low, the resulting color is blue, the primary color for Th. When values for all three parameters are high, the result is white, and when all three parameters are low, the result is black. High values of K and U and low values of Th result in yellow, high values of K and Th and low values of U result in cyan, and high values of U and Th and low values of K result in magenta. Of course, there are an unlimited number of combinations of concentrations of the three radioelements and a corresponding unlimited number of color permutations; the above examples cite only the basic combinations. Note that the map is designed in a color additive system, but the printing process is a color subtractive system; thus the primary colors are not perfectly reproduced.



Planimetric base from National Technical Information Service, 1984
Lambert Conformal Conic projection

SCALE 1:1 000 000

25 0 25 50 75 100 MILES

25 0 25 50 75 100 KILOMETERS

MAP D. COLOR-COMPOSITE MAP OF COMBINATIONS OF SURFACE CONCENTRATIONS OF POTASSIUM, URANIUM, AND THORIUM

AERIAL GAMMA-RAY MAPS OF REGIONAL SURFACE CONCENTRATIONS OF POTASSIUM, URANIUM, AND THORIUM IN UTAH

By

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