DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

OPEN FILE REPORT
79-1470
PLATE 1

Photolineaments mapped from Landsat images

Explanation

Lineament expressed by drainage or other topographic elements

Lineament defined by marked contrast in photographic tone

Lineament clearly controlled by rock fabric, structural attitude, or stratigraphic relations; commonly reflected in topography

Preliminary assessment of reliability (Landsat maps only):

1 - Strong lineament; probably confirmed by most observers
2 - Moderately well-defined lineament; some ambiguity with respect to both recognition and significance
3 - Poorly defined lineament; uncertain identification and/or significance

Area of major interest is bounded by heavy outline; lineaments in peripheral areas were noted in passing because of their apparent predominance, but analysis was not comprehensive.

Landsat frames used, listed by general area of coverage from north to south.

1094 - 18224
1093 - 18170
1075 - 18170
1004 - 18224
1397 - 18053
1075 - 18173
1092 - 18114
1380 - 18113
1163 - 18065

Boundaries of each frame, indicated by light outline, were sketched by visual comparison of map and image and are approximate only. Individual frame numbers are along all boundaries shown and are inside the area of coverage.

This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards and nomenclature.

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SCALE 1:250 000

5 0 5 10 15 20 MILES

5 0 5 10 15 20 25 30 KILOMETERS

CONTOUR INTERVAL 200 FEET

SUPPLEMENTARY CONTOURS AT 100-FOOT INTERVAL

PRELIMINARY MAPS OF PHOTOLINEAMENTS ALONG PARTS OF THE WESTERN SIERRA NEVADA FOOTHILLS AND EASTERN COAST RANGE FOOTHILLS, CALIFORNIA, BASED ON LANDSAT IMAGES AND U-2 AIRCRAFT PHOTOGRAPHS

By

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1979