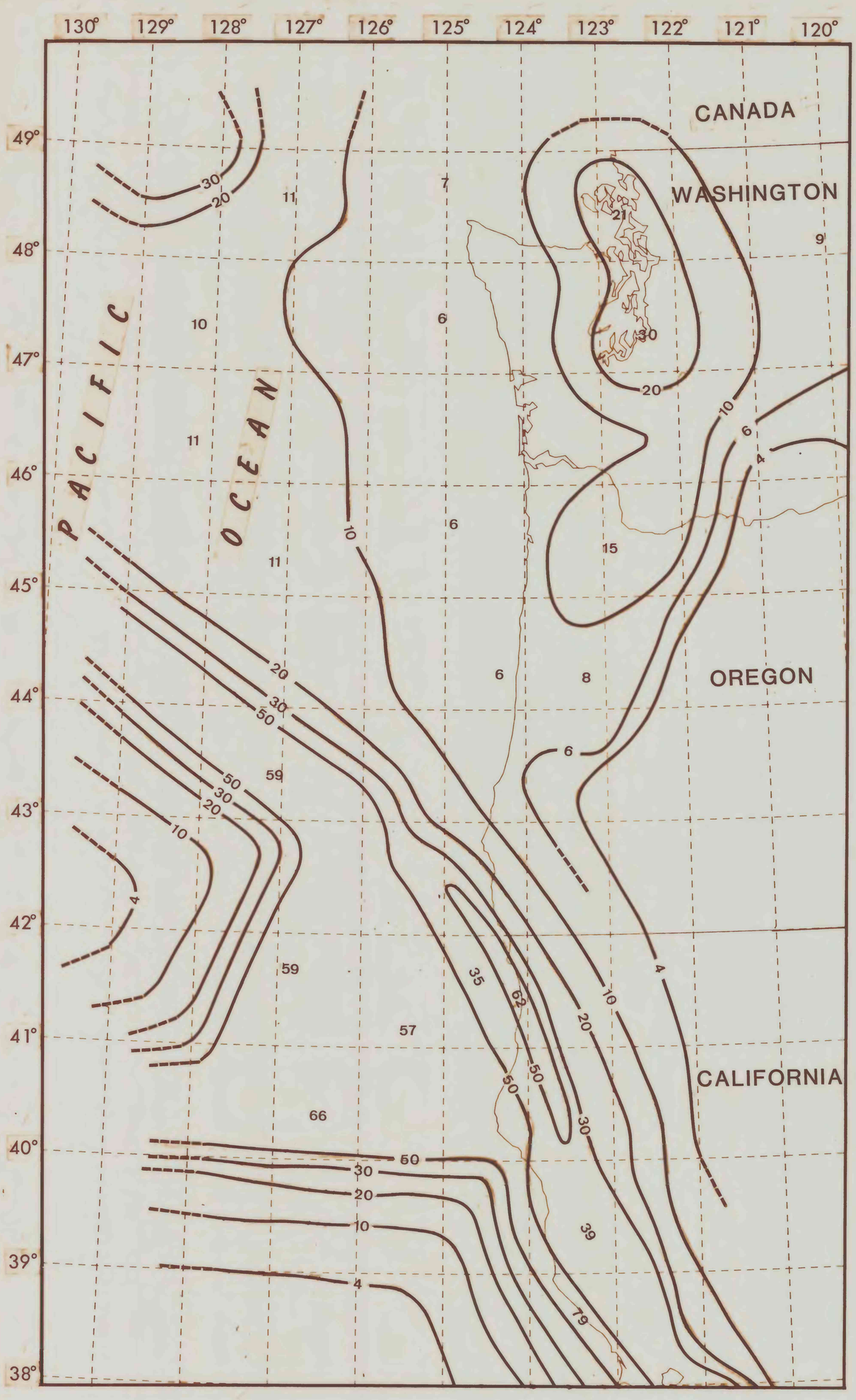
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

OPEN FILE REPORT

80-471



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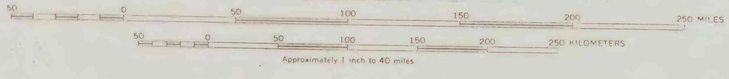

PLATE 3.- 500-YEAR RETURN PERIOD ACCELERATION ON ROCK

(90% PROBABILITY OF NOT BEING EXCEEDED IN 50 YEARS)

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

EXPLANATION

Contours are in percent of gravity.

Dashed contours indicate a continuation of the mapped ground motion level.

Numbers on individual faults represent values occurring only very near the fault.

Numbers within enclosing contours represent values which are constant over a relatively broad area around the location of that number.

Numbers between contours indicate values located other than where expected by linear interpolation.

The probability that a mapped value of acceleration (a) will not be exceeded in T years is given by $P(a) = \exp(-T/500)$.