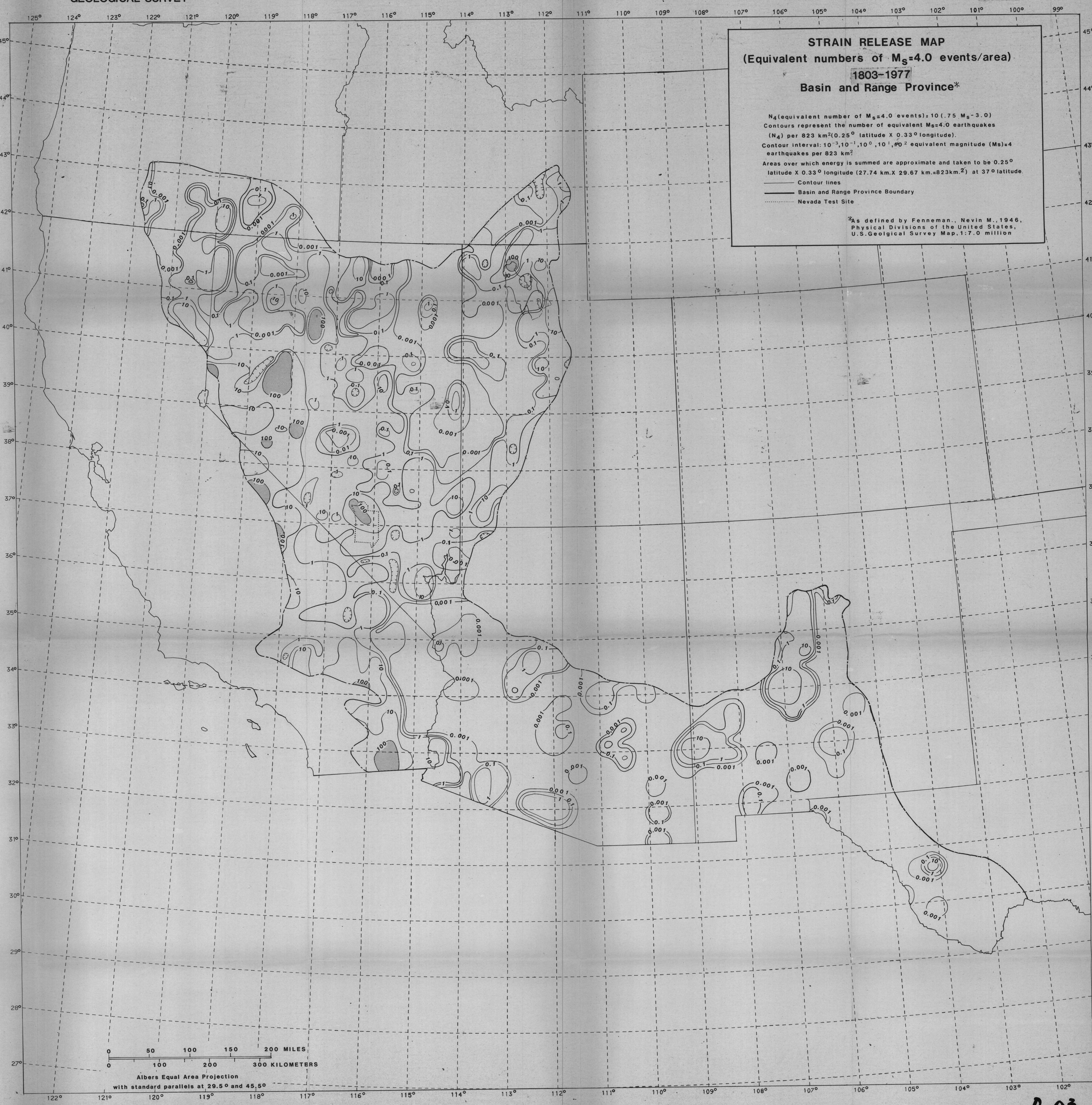


**STRAIN RELEASE MAP**  
**(Equivalent numbers of  $M_s=4.0$  events/area)**  
**1803-1977**  
**Basin and Range Province\***

$N_4$  (equivalent number of  $M_s=4.0$  events) =  $10^{(7.5 M_s - 3.0)}$   
Contours represent the number of equivalent  $M_s=4.0$  earthquakes  
( $N_4$ ) per 823 km<sup>2</sup> (0.25° latitude X 0.33° longitude).  
Contour interval:  $10^{-3}, 10^{-1}, 10^0, 10^1, 10^2$  equivalent magnitude ( $M_s$ )=4  
earthquakes per 823 km<sup>2</sup>  
Areas over which energy is summed are approximate and taken to be 0.25°  
latitude X 0.33° longitude (27.74 km X 29.67 km = 823 km<sup>2</sup>) at 37° latitude.

— Contour lines  
— Basin and Range Province Boundary  
..... Nevada Test Site

\*As defined by Fenneman, Nevin M., 1946,  
Physical Divisions of the United States,  
U.S. Geological Survey Map, 1:7.0 million



0 50 100 150 200 MILES  
0 100 200 300 KILOMETERS

Albers Equal Area Projection  
with standard parallels at 29.5° and 45.5°