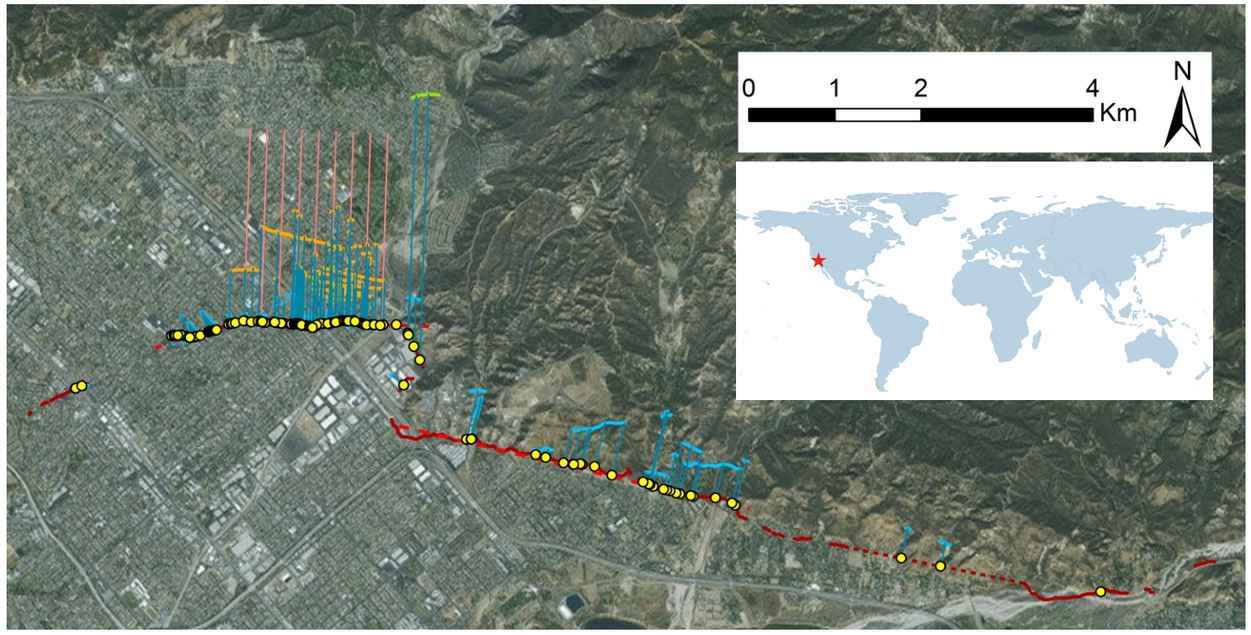
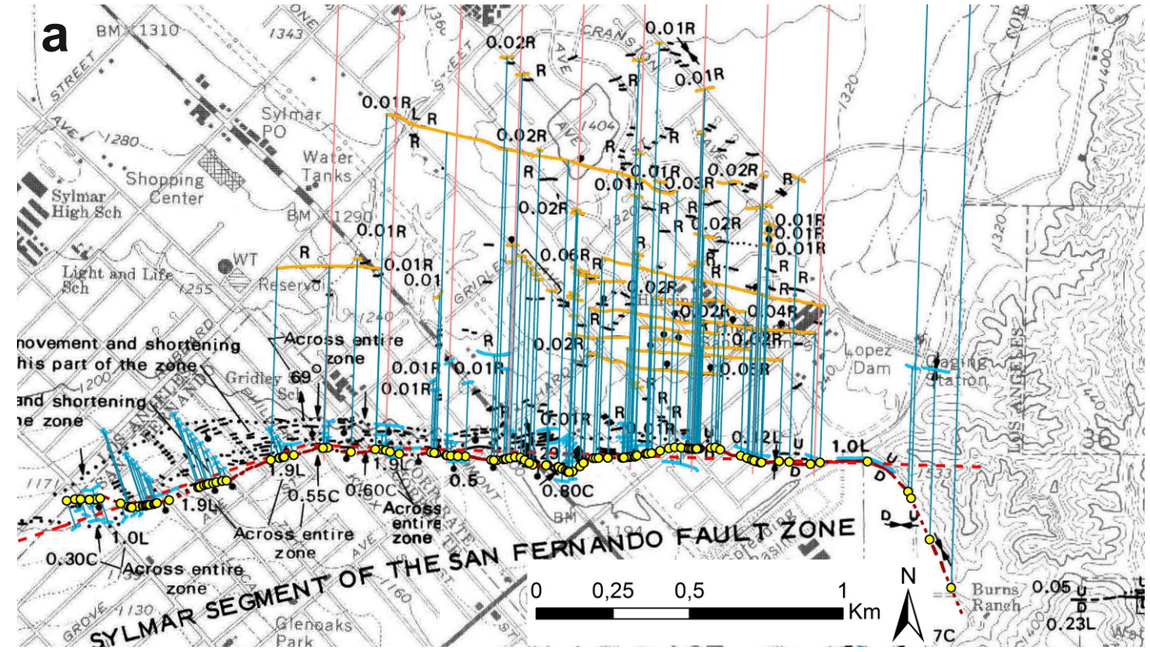
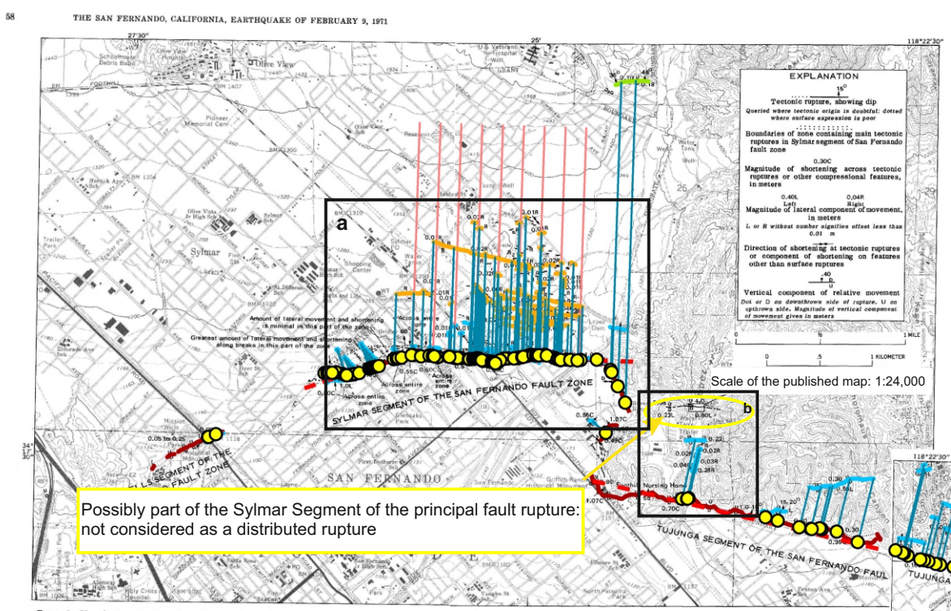




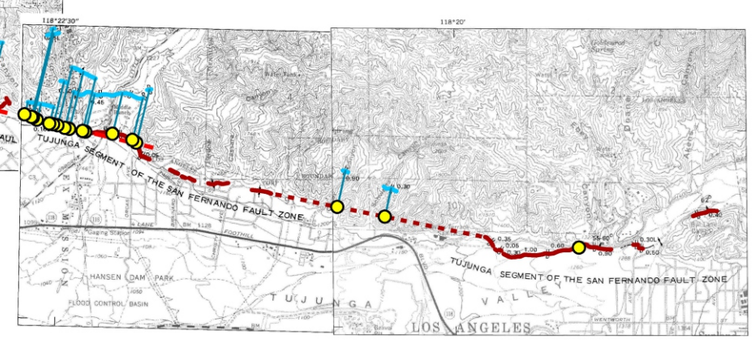
U.S. Geological Survey, 1971

Earthquake	**San Fernando, CA, USA**
Date	1971.02.09
Magnitude	M_s 6.5, M_w 6.6
Kinematics	R-LL
Surface rupture length (km)	16
Maximum displacement (m)	2.5
Depth (km)	8.9
References	See Table 1 and Table S1

Note:
When regarding the Sylmar Segment, which is the most fracturated zone, two measurement logics have been utilized in order to keep the database statistically equivalent respect to the other studied earthquakes. On the left most part of Sylmar segment the distributed ruptures selected to be considered were taken along every second street, which equals more or less 200 m of distance along the principal fault rupture. From Gridley School eastward, distributed ruptures were selected draving sampling lines in every 200 m along the principal fault rupture. All the distributed ruptures with dislocation information and those intersecting the sampling grid were considered in the study.

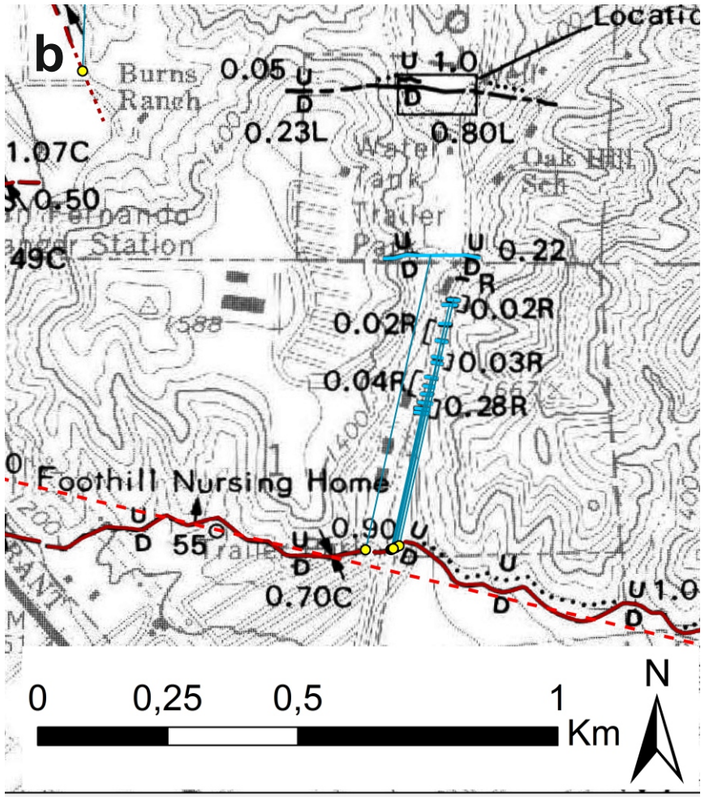


U.S. Geological Survey, 1971



Symbols

- Principal fault rupture (PF)
- Inferred trace of the principal geologic fault
- Average PF direction
- Distributed rupture (DR)
- Sylmar segment extensional zone, considered as bending-moment fault ruptures (B-M) of the Mission Hill anticline (distributed faulting)
- Sympathetic fault rupture (Sy) (distributed faulting)
- Measurement point
- Measured distance (r)
- Fixed distance (200 m) sampling grid line



U.S. Geological Survey, 1971

0 1 2 4 Km N

Figure S1