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sediment volumes for the five sediment-thickness domains (see table 7-1 in accompanying pamphlet). Subsideance in the San Francisco emb-dial delta paleovalley and the San Andreas graben can be partly attributed to the northward change in strike of both the San Francisco and San Andreas faults, and to the northward change in the dip of the San Andreas graben from contractional deformation to extensional deformation (Zoback and others 1999).

Map 4 of this sheet shows the regional pattern of major faults of earthquakes between 1967 and April 15, 2014 that have inferred or measured magnitudes of 2.0 or greater. Fault locations, which have been simplified, are compiled from our mapping within California's State Waters (see sheet 10) and from the U.S. Geological Survey's Quaternary fault and fold database (USFDB; <http://www.faults.computer.org/>). Fault locations in the eastern United States are from the National California Earthquake Data Center (2014), which is maintained by the U.S. Geological Survey and the University of California, Berkeley, Seismological Laboratory. Map 4 also shows the inferred location of the devastating great 1906 earthquake (M 7.9) that caused the largest loss of life and property in California. Fault outcrops of San Francisco (see, for example, Bell, 1968; Lomax, 2005; Map E) clearly show that the largest number of earthquakes in the region occur within the broad San Francisco Valley and the San Francisco Bay area. The San Francisco Bay area, the Gregory Fault Zone and east of the Golden Gate Fault are much less common.

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responsible herein in San Andreas Fault (see for example, Zoback and others, 1999). The uplift raises and exposes much of the shallow shelf to the high wave energy that is associated with the storm surge. The uplift also provides a mechanism by which the renewed and transported of the inner shelf and midshelf areas to deeper water. The uplift also provides a mechanism by which the inner shelf and midshelf areas are renewed and transported of the inner shelf and midshelf areas to deeper water. The uplift also provides a mechanism by which the inner shelf and midshelf areas are renewed and transported of the inner shelf and midshelf areas to deeper water.

## DISCUSSION

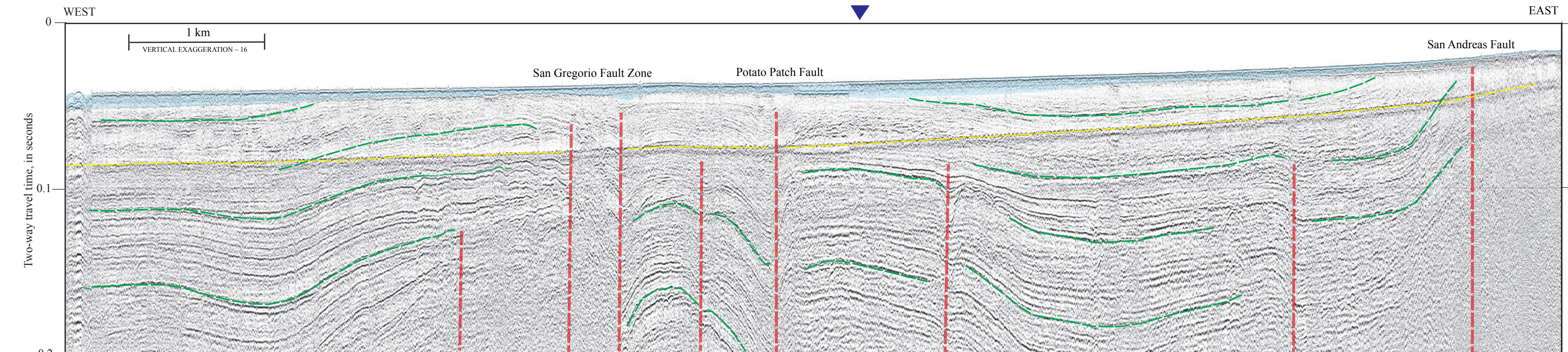
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Figure 1 USGS high-resolution mispickers seismic reflection profile MMS-21A collected in 2007 on survey F-2-07-NC, see Map A for location). Dashed red lines show faults. Blue shading shows inferred uppermost Pliocene and Holocene strata, deposited since last sea-level lowstand about 21,000 years ago. This upper unit unconformably overlies older strata, which continues to base of profile, that is characterized by folded and faulted, parallel to subparallel, moderate- to high-amplitude, variably continuous reflections. Thickness and distribution of upper unit provides data for Maps A, B, C, and D. Dashed green lines highlight continuous reflections that reveal structure (not distinctive stratigraphic markers). Dashed yellow line is seafloor multiple (echo of seafloor reflector). Purple triangle shows location of California's State Waters limit (yellow line on Maps A, B, C, D, E).

