

San Andreas Fault On Map

== See also == 404f5bd426

San Andreas Fault Observatory at Depth 4 miles) pilot hole and a 3. 2 km (2 miles) main hole. This data, along with samples collected during drilling, helped shed new light on geochemical and mechanical properties around the fault zone. The San Andreas Fault Observatory at Depth (SAFOD) was a research project that began in 2002 aimed at collecting geological data about the San Andreas Fault The San Andreas Fault Observatory at Depth (SAFOD) was a research project that began in 2002 aimed at collecting geological data about the San Andreas Fault for the purpose of predicting and analyzing future earthquakes. The site consists of a 2. Located near the town of Parkfield, California, the project installed geophone sensors and GPS clocks in a borehole that cut directly through the fault. Drilling operations ceased in 2007. 2 km (1 404f5bd426

Transform boundaries are also known as conservative plate boundaries because they involve no addition or loss of lithosphere at the

Earth's surface. The Imperial Fault Zone is thought to accommodate slip from both the San Andreas and the San Jacinto fault zones. However, studies covering the last few hundred years show that the slip rate is insufficient to account for the total slip from the San Andreas system. The surface trace is well-located based on mapped surface offsets from historic events.

North of San Pablo Bay is the Rodgers Creek Fault, which was shown in 2016 to be linked with the Hayward Fault under San Pablo Bay to form a combined... The movement of the San Gregorio is right-lateral strike-slip, and the slip rate is estimated to be 4–10 mm/year (0.2–0.4 inch/year). The most recent major earthquake along the fault had an estimated magnitude of 7 to 7.25 and occurred after 1270 AD—the earliest calibrated radiocarbon date for a native Californian cooking hearth at the Seal Cove site near Moss Beach that shows signs of displacement—but before 1775, when Spanish...

SAFOD was part of Earthscope, an Earth science program using geological and geophysical techniques to explore the structure of the North American continent and to understand the origin of earthquakes and volcanoes. Earthscope was funded by the National Science Foundation in conjunction with the U.S. Geological Survey and NASA. Data collected at SAFOD are available from The Northern California Earthquake Data Center at

U.C. Berkeley and from NSF SAGE Facility Data Services operated by EarthScope Consortium, formerly known as the IRIS DMC. 404f5bd426 The San Gabriel Fault started 13-11 million years ago as a large part of the San Andreas Fault, and is believed to be the former path of it. It is part of the San Gabriel Fault Zone, which starts in the northwestern corner of the Ridge Basin, splits into two faults in its southeastern section, in the northwestern San Gabriel Mountains, and ends in the eastern part of those Mountains. The San Gabriel Fault is the north branch. It is older and goes eastward from the south branch which... 404f5bd426

San Andreas Lake situated directly on the San Andreas Fault, which is named after the valley it is in. It is situated directly on the San Andreas Fault, which is named after the valley it is in. After discovering San Francisco Bay from Sweeney Ridge on November 4, San Andreas Lake is a reservoir adjacent to the San Francisco Peninsula cities of Millbrae and San Bruno in San Mateo County, California 404f5bd426

== Location and age == 404f5bd426 == Geology == 404f5bd426 The Hayward Fault is parallel to the San Andreas Fault, which lies offshore and through the San Francisco Peninsula. To the east of the Hayward Fault lies the Calaveras Fault. In

2007, the Hayward Fault was discovered to have merged with the Calaveras Fault east of San Jose at a depth of 4.0 mi (6.4 km), with the potential of creating earthquakes much larger than previously anticipated. Some geologists have suggested that the Southern Calaveras should be renamed as the Southern Hayward. 404f5bd426 In the south, the fault terminates near Bombay Beach, California, in the Salton Sea. Here, the plate motion transitions from right-lateral to divergent, characteristic of the East Pacific Rise further south. In this region, the Salton Trough, the plate boundary has been... 404f5bd426 Chikyū... 404f5bd426 The San Gabriel Fault is a right-lateral strike-slip that was last active between 10 and 5 million years ago – Late Quaternary west of intersection with the Sierra Madre Fault, and Quaternary east of that intersection, and Holocene only further west between Saugus and Castaic-Gorman. 404f5bd426 Padre Palóu, on an expedition from Monterey to explore the western side of San Francisco Bay led by Captain Fernando Rivera y Moncada, renamed Portolá's Cañada de San Francisco to Cañada de San Andrés on November 30, 1774, it being the feast day of St. Andrew. 404f5bd426

Calaveras Fault 6 2007 Alum Rock event. The last large event was the magnitude 6. Activity on the different segments of the fault includes moderate and large earthquakes as well as aseismic creep. 2

1984 Morgan Hill event. Calaveras Fault is a major branch of the San Andreas Fault System that is located in northern California in the San Francisco Bay Area. 1 event on 25 October 2022, and the magnitude 5. The most recent moderate earthquakes were the magnitude 5. Activity on the different The Calaveras Fault is a major branch of the San Andreas Fault System that is located in northern California in the San Francisco Bay Area
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== Nomenclature == 404f5bd426

San Gabriel Fault California: Geologic and kinematic constraints on evolution of the San Andreas fault system", The San Andreas Fault System: Displacement, Palinspastic Reconstruction The San Gabriel Fault is a geological fault in Los Angeles County, California, running about 87 miles (140 km) southeastward from the Ridge Basin in the Sierra Pelona-San Emigdio Mountains juncture area to the western San Gabriel Mountains that forms their southwestern face near Sunland and the northeastern San Fernando Valley, and then on the south flank to the southeastern part of the San Gabriel range 404f5bd426

== Location == 404f5bd426 After discovering San Francisco Bay from Sweeney Ridge on November

4, 1769, the Portolá expedition descended what Portolá called the Cañada de San Francisco, now San Andreas Creek, to camp in the vicinity of today's San Andreas Lake. 404f5bd426 The SJFZ itself consists of many individual fault segments, some of which have only been individualized as recently as the 1980s, but activity along the line of faults has been documented since the 1890s. One segment of the SJFZ, the Anza seismic gap, has not experienced any major activity since instrumental records have been kept. Each segment was evaluated for its seismic risk and was assigned a probability for the occurrence of a large rupture for the thirty-year period starting in 1995. 404f5bd426 The Imperial Fault Zone is a right lateral-moving strike-slip fault, representing the northernmost transform fault associated with the East Pacific Rise. It is connected to the San Andreas Fault by the Brawley Seismic Zone. It terminates on its southern end at the Cerro Prieto spreading center. 404f5bd426 Most such faults are found in oceanic crust, where they accommodate the lateral offset between segments of divergent boundaries, forming a zigzag pattern. This results from oblique seafloor spreading where the direction of motion is not perpendicular to the trend of the overall divergent boundary. A smaller number of such faults are found on land, although these are generally better-known, such as the San Andreas Fault and North Anatolian Fault.

404f5bd426 In the north, the fault terminates offshore near Eureka, California, at the Mendocino triple junction, where three tectonic plates meet. The Cascadia subduction zone intersects the San Andreas fault at the Mendocino triple junction. It has been hypothesized that a major earthquake along the Cascadia subduction zone could trigger a rupture along the San Andreas Fault. 404f5bd426 It is believed to link with the Hayward fault, as well as the West Napa Fault, north of the Carquinez Strait. It passes through or near the cities of Alamo, Danville, San Ramon, Dublin, Pleasanton, Sunol, Milpitas, San Jose, Gilroy, and Hollister. 404f5bd426

San Andreas Fault S. Traditionally, for scientific purposes, the fault has been classified into three main segments (northern, central, and southern), each with different characteristics and a different degree of earthquake risk. S. state of California The San Andreas Fault is a continental right-lateral strike-slip transform fault that extends roughly 750 mi (1,210 km) through the U. state of California. It forms part of the tectonic boundary between the Pacific plate and the North American plate. The San Andreas Fault is a continental right-lateral strike-slip transform fault that extends roughly 750 mi (1,210 km) through the U. The average slip rate along the entire fault ranges from 0. 79 to 1. 38 inches (20 to 35 mm) per year 404f5bd426

Imperial Fault Zone slip from the San Andreas system. The surface trace is well-located based on mapped surface offsets from historic events. The Imperial Fault Zone has a history The Imperial Fault Zone is a system of geological faults located in Imperial County in the Southern California region, and adjacent Baja California state in Mexico. It cuts across the border between the United States and Mexico 404f5bd426

Captain Juan Bautista de Anza, after forging the first overland route from Monterey, California, to San... 404f5bd426

San Gregorio Fault about 20 km northwest of San Francisco, near Bolinas Bay, where the San Gregorio intersects the San Andreas Fault, and the fault continues southward past The San Gregorio Fault is an active, 209 km (130 mi) long fault located off the coast of Northern California. Most of the San Gregorio fault trace is located offshore beneath the waters of Monterey Bay, Half Moon Bay, and the Pacific Ocean, though it cuts across land near Point Año Nuevo and Pillar Point. The San Gregorio Fault is part of a system of coastal faults which run roughly parallel to the San Andreas. The northern end is about 20 km northwest of San Francisco, near Bolinas Bay, where the San Gregorio intersects the San Andreas Fault, and the fault continues southward past Big

Sur as the Hosgri Fault (also Hosgri Fault Zone, San Gregorio-Hosgri Fault Zone) as an offshore fault zone located near the Central Coast of California in San Luis Obispo County 404f5bd426

The next day they reached a "Laguna Grande" which today is covered by the Upper Crystal Springs Reservoir. The campsite is marked by California Historical Marker No. 94 "Portola Expedition Camp", located at Crystal Springs Dam, on Skyline Boulevard, 0.1 mi south of Crystal Springs Road. They camped here a second time on November 12, on their return trip. 404f5bd426

Hayward Fault Zone To The Hayward Fault Zone is a right-lateral strike-slip geologic fault zone capable of generating destructive earthquakes. The fault was first named in the Lawson Report of the 1906 San Francisco Earthquake in recognition of its involvement in the earthquake of 1868. This fault is about 74 mi (119 km) long, situated mainly along the western base of the hills on the east side of San Francisco Bay. The Hayward Fault is parallel to the San Andreas Fault, which lies offshore and through the San Francisco Peninsula. Union City, Fremont, and San Jose. It runs through densely populated areas, including Richmond, El Cerrito, Berkeley, Oakland, San Leandro, Castro Valley, Hayward, Union City, Fremont, and San Jose 404f5bd426

San Jacinto Fault Zone SJFZ is a component of the larger San Andreas transform system and is considered to be the most seismically active fault zone in the area. Together they The San Jacinto Fault Zone (SJFZ) is a major strike-slip fault zone that runs through San Bernardino, Riverside, San Diego, and Imperial Counties in Southern California. Together they relieve the majority of the stress between the Pacific and North American tectonic plates. The SJFZ is a component of the larger San Andreas transform system and is considered to be the most seismically active fault zone in the area 404f5bd426

Transform fault It ends abruptly where it connects to another plate boundary, either another transform, a spreading ridge, or a subduction zone. A transform fault is a special case of a strike-slip fault that also forms a plate boundary. number of such faults are found on land, although these are generally better-known, such as the San Andreas Fault and North Anatolian Fault. Transform boundaries A transform fault or transform boundary, is a fault along a plate boundary where the motion is predominantly horizontal 404f5bd426

== History == 404f5bd426 While several of the large earthquakes along the SJFZ have not resulted in significant property damage or loss of

life (due to their remote location) the cities of Hemet and San Jacinto were both heavily damaged in two significant events in 1899 and 1918. The recurrence interval for a series... 404f5bd426

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