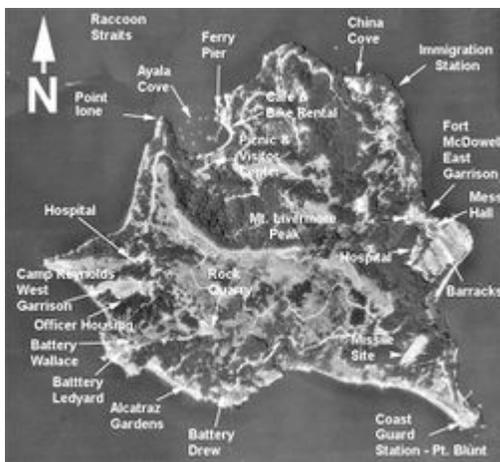


## Angel Island



Angel Island

### Geography

<b>Location</b>	San Francisco Bay
<b>Coordinates</b>	<a href="#">37°52′N 122°26′W</a> / <a href="#">37.86°N 122.43°W</a>
<b>Area</b>	1.2 sq mi (3.1 km <sup>2</sup> )
<b>Elevation</b>	788.76 ft (240.41 m)
<b>Highest point</b>	Mount Caroline Livermore

### Country

United States

<b>State</b>	California
<b>County</b>	Marin County City and County of San Francisco

### Demographics

<b>Population</b>	57
<b>Density</b>	18.35/km <sup>2</sup> (47.5/sq mi)

### Additional information

**California Historical Landmark**

**Reference #:** 529

**Angel Island** is an island in [San Francisco Bay](#) offering expansive 360° views of the [San Francisco](#) skyline, the [Marin County](#) Headlands and [Mount Tamalpais](#). The entire island is included within **Angel Island State Park** and is administered by California State Parks. The island, a California Historical Landmark, has been used for a variety of purposes, including military forts, a US Public Health Service Quarantine Station, and a US Bureau of Immigration inspection and detention facility. The Angel Island Immigration Station on the northeast corner of the island, where officials detained, inspected, and examined approximately one million immigrants, has been designated a [National Historic Landmark](#).

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# Geography



Port of Angel Island

Angel Island is the second largest island in area of the San Francisco Bay (Alameda is the largest). The island is so large that on a clear day, [Sonoma](#) and [Napa](#) can be seen from the north side of the island; [San Jose](#) can be seen from the south side of the island. The highest point on the island, almost exactly at its center, is **Mount Caroline Livermore** at a height of 788 feet (240 m). The island is almost entirely in the city of [Tiburon](#), in [Marin County](#), although, there is a small sliver (0.7%) at the eastern end of it (Fort McDowell) which extends into the territory of the [City and County of San Francisco](#). The island is separated from the mainland of Marin County by Raccoon Strait, the depth of the water approximately 90 feet. The [United States Census Bureau](#) reported a land area of 3.107 km<sup>2</sup> (1.2 sq mi) and a population of 57 people as of the [2000 census](#).

# History



Angel Island as seen from Tiburon.



San Francisco skyline & Alcatraz from  
Angel Island

Until about ten thousand years ago, Angel Island was connected to the mainland; it was cut off by the rise in sea levels due to the end of the last [ice age](#). From about two thousand years ago the island was a fishing and hunting site for [Coast Miwok Native Americans](#). Similar

evidence of Native American settlement is found on the nearby mainland of the Tiburon Peninsula upon [Ring Mountain](#). In 1775, the [Spanish](#) naval vessel *San Carlos* made the first [European](#) entry to the San Francisco Bay under the command of Juan de Ayala. Ayala anchored off Angel Island, and gave it its modern name (*Isla de los Ángeles*); the bay where he anchored is now known as Ayala Cove.

In his book *Two Years Before the Mast*, published in 1840, Richard Henry Dana, Jr. mentions in chapter 26, that in 1834 his sailing ship collected wood from "a small island, about two leagues from the Yerba Buena anchorage, called by us 'Wood Island' and by the Mexicans 'Isla de los Ángeles' and was covered with trees to the waters edge."

Like much of the California coast, Angel Island was subsequently used for cattle ranching. In 1863, during the [American Civil War](#), the [U.S. Army](#) was concerned about Confederate naval raiders attacking San Francisco. It decided to construct artillery batteries on Angel Island, first at Stuart (or Stewart) Point and then Point Knox. Col. René Edward De Russy was the Chief Engineer; James Terry Gardiner was the engineer tasked with designing and supervising the work. The Army established a camp on the island (now known as Camp Reynolds or the West Garrison), and it subsequently became an [infantry](#) garrison during the US campaigns against Native American peoples in the West.

## **Fort McDowell**



Battery Ledyard, near Point Knox, was active between 1899 and 1915.

In the later 19th century, the army designated the entire island as "Fort McDowell" and developed further facilities there, including what is now called the East Garrison or Fort McDowell. A [quarantine station](#) was opened in Ayala Cove (which at the time was known as Hospital Cove) in 1891. During the [Spanish–American War](#) the island served as a discharge depot for returning troops. It continued to serve as a transit station throughout the first half of the 20th century, with troops engaged in [World War I](#) embarking and returning there. At the end of World War I the disembarkation center was commanded by William P. Burnham, who had commanded the 82nd Division in [France](#) during the war.

In 1938, hearings concerning charges of membership in a proscribed political party against labor leader Harry Bridges were held on Angel Island before Dean James Landis of [Harvard Law School](#). After eleven weeks of testimony that filled nearly 8,500 pages, Landis found in favor of Bridges. The decision was accepted by the [United States Department of Labor](#) and Bridges was freed.

During World War II the need for troops in the Pacific far exceeded prior needs. The facilities on Angel Island were expanded and further processing was done at Fort Mason in San Francisco. Prior to the war the infrastructure had been expanded, including building the Army ferry USAT *General Frank M. Coxe*, which transported troops to and from Angel Island on a regular schedule. Fort McDowell was used as a detention station for Japanese, German and Italian immigrant residents of Hawaii arrested as potential fifth columnists (despite a lack of supporting evidence or access to due process). These internees were later transferred to inland Department of Justice and Army camps. Japanese and German [prisoners of war](#) were also held on the island, supplanting immigration needs, which were curtailed during the war years.

The army decommissioned the military post in 1947. In 1954 a Nike missile station was installed on the island. The missile magazines were constructed above Point Blunt on the island's southeast corner, and the top of Mount Ida (now Mount Caroline Livermore) was flattened and the associated radar and tracking station (IFC) was installed there. The missiles were removed in 1962, when the military finally left the island. The missile launch pad still exists, but the station atop Mount Caroline Livermore was completely removed and the mountaintop was later restored to its original contours.



Government building on Angel Island

## **Immigration station**

*Main page: United States Immigration Station, Angel Island*



Camp Reynolds (West Garrison) on Angel Island.

From 1910 to 1940, the Angel Island Immigration Station processed approximately 1 million Asian [immigrants](#) entering into the US, leading to it sometimes being referred to as "The Ellis Island of the West". Due to the restrictions of the Chinese Exclusion Act of 1882, many Chinese immigrants spent years on the island, waiting for entry. While waiting for entry into the United States, many of those at Angel Island began carving poetry in the walls of their barracks. Officers of the station puttyed over the walls as many as seven times between 1910 and 1940 to cover over the poetry. In time, the putty flaked off and the poetry was visible again. A fire destroyed the administration building in 1940, and subsequent immigration processing took place in San Francisco.

On 18 Jan. 1940, 512 surviving crewmen of the *SS Columbus* arrived here, awaiting their return to Germany. In Oct., 8 officers were able to flee on the *Asama Maru*.

In 1964, the Chinese American community successfully lobbied the State of California to designate the immigration station as a State Landmark. Today, the Angel Island Immigration Station is a federally

designated [National Historic Landmark](#). It was renovated by the California State Parks, which re-opened February 16, 2009. Docent tours for school groups can be made by appointment.

## Angel Island State Park



Aerial view of Angel Island

In 1955, the State Park Commission authorized California State Parks to purchase 38 acres (15 ha) around Ayala Cove, marking the birth of Angel Island State Park. Additional acreage was purchased four years later, in 1959. The last federal [Department of Defense](#) personnel withdrew in 1962, turning over the entire island as a state park in December of the same year.

There is one active [United States Coast Guard lighthouse](#) on the island at Point Blunt. The lighthouse at Point Stuart has been disestablished.

## Ecology

The island's native plant communities include coastal grassland and coastal scrub, mostly on the island's south- and west-facing slopes and ridge tops, and evergreen woodland – predominantly of Coast Live Oak (*Quercus agrifolia*), bay (*Umbellularia californica*), toyon (*Heteromeles arbutifolia*), and madrone (*Arbutus menziesii*), with California Hazelnut (*Corylus cornuta*) and Western Sword Fern (*Polystichum munitum*) in the understory – on the eastern and northern portions of the island sheltered from the westerly winds from the Golden Gate.

It is thought that the [Coast Miwoks](#) used regular fires to expand the grassland and shrublands at the expense of the woodlands. The grasslands and shrublands provided edible seeds and bulbs, and supported larger numbers of deer and small game.

The Angel Island Mole, *Scapanus latimanus insularis*, is a subspecies of Broad-footed mole [endemic](#) to Angel Island.

The military had planted 24 acres of Bluegum Eucalyptus (*Eucalyptus globulus*) on the island for windbreaks, beautification, timber, and erosion control. By the mid-1980s, the area covered by eucalyptus had expanded to 86 acres. In the 1980s, California State Parks undertook environmental studies to remove most of the Eucalyptus from the island, in order to restore native flora and reduce fire danger. The proposal generated controversy and received much local media coverage, and was approved to begin in 1990. Eucalyptus were removed from 80 acres between 1990 and 1997, and nursery-grown native plants were planted in the cleared areas. Six acres of historically significant eucalyptus trees were retained.

As elsewhere in California, intensive cattle grazing in the 19th Century allowed annual grasses introduced from Southern Europe to replace the native perennial grasses. Ongoing removal of non-native plants, including French broom (*Genista monspessulana*), Italian thistle (*Carduus pycnocephalus*) and Ice plant (*Carpobrotus edulis*), continues in an effort to restore the original evergreen woodland, perennial grassland, and coastal scrub plant communities.

In addition to the eucalyptus, plantings from the military period of Monterey Pine (*Pinus radiata*), Cork Oak (*Quercus suber*), Australian Blackwood (*Acacia melanoxylon*), Canary Island Date Palm (*Phoenix canariensis*), Century Plant (*Agave americana*), Japanese Redwood (*Cryptomeria japonica*), Incense Cedar (*Calocedrus decurrens*), Deodar Cedar (*Cedrus deodara*), Coast Redwood (*Sequoia sempervirens*), Giant Sequoia (*Sequoiadendron giganteum*), Norfolk Island Pine (*Araucaria heterophylla*), Monkey puzzle tree (*Araucaria araucana*) and others can be found in and around the former military bases and immigration station.

Mule Deer (*Odocoileus hemionus*) were reintroduced to the island by the army in 1915 for hunting. In the absence of predators, the deer population expanded and overgrazed the island. The deer population is now managed annually by California State Parks and the Department of Fish and Game.

In 2002, the summit of Mount Caroline Livermore, which had been flattened in the 1950s to build the Nike missile radar and tracking installation, was re-contoured to resemble its original appearance, and increased 16 feet in height as a result. The access road up the

west side of the mountain was removed, and replaced with a winding trail up the east side.

## 2008 fire



The fire at about 7 a.m. on October 13, 2008



A helicopter, faintly visible amid smoke near center of image, drops water on the [wildfire](#) in the morning on October 13, 2008.



*Fireboat Tiburon* deploys her watercannon on an otherwise inaccessible shoreline fire, on October 12, 2008.

On October 12, 2008 at approximately 9 p.m. PDT, a fire visible from all around the San Francisco Bay broke out on the island that spread to an estimated 100 acres (40 ha) within an hour. By 8 a.m. the next morning, the fire had scorched 250 acres (100 ha) — a third of the island — and was 20 percent contained.

Firefighters were ferried from the mainland and helicopters dropped water and fire retardants to protect the historical buildings and extinguish the fire that was fully contained by October 14, 2008 at approximately 7 p.m. 380 of the island's 740 acres (300 ha) were burned in the fire. With the exception of one abandoned water tank, no structures were lost in the fire.

The [United States Coast Guard](#) asserted that firefighting efforts were coordinated from the USCGC *Sockeye*.

In portions of the evergreen woodlands, the fire burned through quickly, consuming the understory, but leaving the trees mostly undamaged. The fire burned several stands of Monterey Pine (*Pinus*

*radiata*) originally planted by the U.S. Army, which will be restored to native evergreen woodlands.

Prior fires include one in 2005 that burned 25 acres (10 ha), and a smaller 2–3-acre blaze in 2004.

## **Access**

Access to the island is by private boat or public ferry from [San Francisco](#), [Tiburon](#) or [Vallejo](#). During the off-season (October–March), all ferries run a reduced schedule. All fares include park admission. The California State Park Annual Day Use Pass can be used to pay day use dock fees for private boats, but it is not accepted from visitors coming via the public ferries.

[Bicycles](#) can be brought on the ferry or rented seasonally on land and used on the island's main roads. Electric scooters and Segways can also be rented. Due to the terrain, roller skates, roller blades, skateboards, kick scooters, and personal Segway scooters are prohibited.

Dogs (except service dogs) are not allowed.

Wood fires are prohibited. Charcoal fires are allowed, but charcoal is not available for purchase on the island.

There are 11 environmental campsites, including an ADA site, 9 numbered sites (each site accommodating up to 8 people), and a kayak-accessible group site (holds up to 20 people).

Night travel on the island is prohibited in some areas for reasons of park security and public safety.

Metal detectors, while allowed, are not recommended, because digging or disturbing the soil or ground in the park is prohibited.

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