



## The Greening of the Park

The National Park Service serves as the steward for some of our country's finest natural and cultural resources. As caretakers, the parks are inspired to reduce, reuse and recycle. On a daily basis, San Francisco Maritime National Historical Park is fostering sustainability and getting greener.

The next time you walk out on Hyde Street Pier, look up at the roof of the Small Boat Shop. You will see a small array of solar panels (photo, top, left). This photovoltaic system is providing most of the lighting needs for the boat shop, shipwright shop, and ranger office. The system generates about 500 kilowatt hours monthly, reducing the electric bill by \$1000 a year. Because these kilowatts are generated by solar power, the park is helping to reduce the release of carbon dioxide, a common greenhouse gas, into the atmosphere.

As you step aboard the *Eureka* ferryboat car deck it may look dark, but your movements will trigger a motion sensor, turning on lights as needed immediately brightening your way. About eight years ago, park maintenance employees began installing motion sensors, twist timers on restroom lights, and replacing incandescent bulbs with energy saving and longer lasting compact fluorescents.

By replacing incandescent bulbs with longer lasting, lower watt, compact fluorescents in offices, public spaces, on the pier, and in the ships, the park has garnered significant savings. The compact fluorescent bulbs in the floodlights that illuminate the Hyde Street Pier have lasted for eight years!

Energy costs are soaring. By becoming more energy efficient, the park has reduced its electrical energy consumption by 60% over the last five years. On Hyde Street Pier alone this has meant a savings of \$22,000 per year.

As you sit on a bench in Aquatic Park, admiring the view, the gardener might be mowing the lawn. Take a deep breath and suck in the

diesel exhaust--no wait, what's that smell, vegetable oil? Yes, the new park mower runs on B100, a 100% vegetable-based diesel fuel (photo, top, right).

You might see maintenance employees hauling garbage and tools in small utility vehicles. Until last year, the park used gasoline-powered vehicles; we have now switched to an all electric-powered fleet.

Maintaining historic ships and buildings requires the use of paints, solvents, and cleaning products. A recent painting project used 55 gallons of low VOC (volatile organic compounds) paint. Paints release low levels of toxins into the air. Low VOC paints contains fewer petroleum-based solvents and give off fewer harmful emissions.

Over the last year, employees have worked to reduce the amount of hazardous materials stored in the park. Through their efforts, the park inventory of paints, varnishes, thinners, parts cleaners, greases and adhesives has been cut in half.

Office recycling bins allow employees to routinely recycle paper, bottles, cans, and batteries and green bins on Hyde Street Pier make it convenient for visitors to recycle bottles and cans. The park uses a techno-trash can to recycle "e (electronic) waste" including floppy discs, CDs, DVDs, cell phones, and cables.

An overnight education program for children on *Balclutha* includes the preparation of three meals. All the food waste is composted through the San Francisco City recycling program.

During your visit, we hope you enjoy the park, take away new ideas about maritime history, and continue to practice the three Rs -- Reduce, Reuse and Recycle -- no matter where you are.

### Go Green and Grey

At San Francisco Maritime we are working hard on getting greener. Our concentrated efforts began in 2005 when we held a two day workshop that included NPS and EPA (Environmental Protection Agency) employees, our cooperating association, park partners, City of San Francisco environmental workers, and neighbors.

Out of that workshop we developed a foundation and plan for the park to move toward using alternative energy sources, green materials and products, reducing the release of toxic chemicals into the environment, increasing recycling, reducing the amount of hazardous materials stored in the park, and providing information about sustainability to our visitors. Our job is by no means accomplished but the front page article details some of our successes.

National Park Service employees are sometimes referred to as those that wear the green and grey, referring to the green trousers and grey shirt that are part of the uniform. For many people the green reminds them of the color of forests. Increasingly that green also signifies the commitment of the National Park Service in taking a leadership role in promoting sustainability.



Kate Richardson  
Superintendent

### 1 The Greening of the Park

On a daily basis, San Francisco Maritime National Historical Park is fostering sustainability and getting greener.

### 2 Tug *Hercules* turns 100

Although long retired, and 100 years old, in her day, *Hercules* could pull anything that floated.

### 4 Of Flying Fish and Sailing Cats: Activity Page for Kids

The cook on *Balclutha* has a very interesting story to tell.

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National Park Service  
U.S. Department of the Interior

### San Francisco Maritime National Historical Park

Established in 1988, San Francisco Maritime National Historical Park encompasses only 34 acres, but contains the most national historic landmarks of any unit in the National Park Service. In addition to the fleet of ships at Hyde Street Pier, the park includes the Aquatic Park Historic District (Maritime Museum, urban beach, lawn area and bocce ball courts), a Visitor Center and a research library (in Fort Mason Center).

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# Steam Tug *Hercules* Turns 100

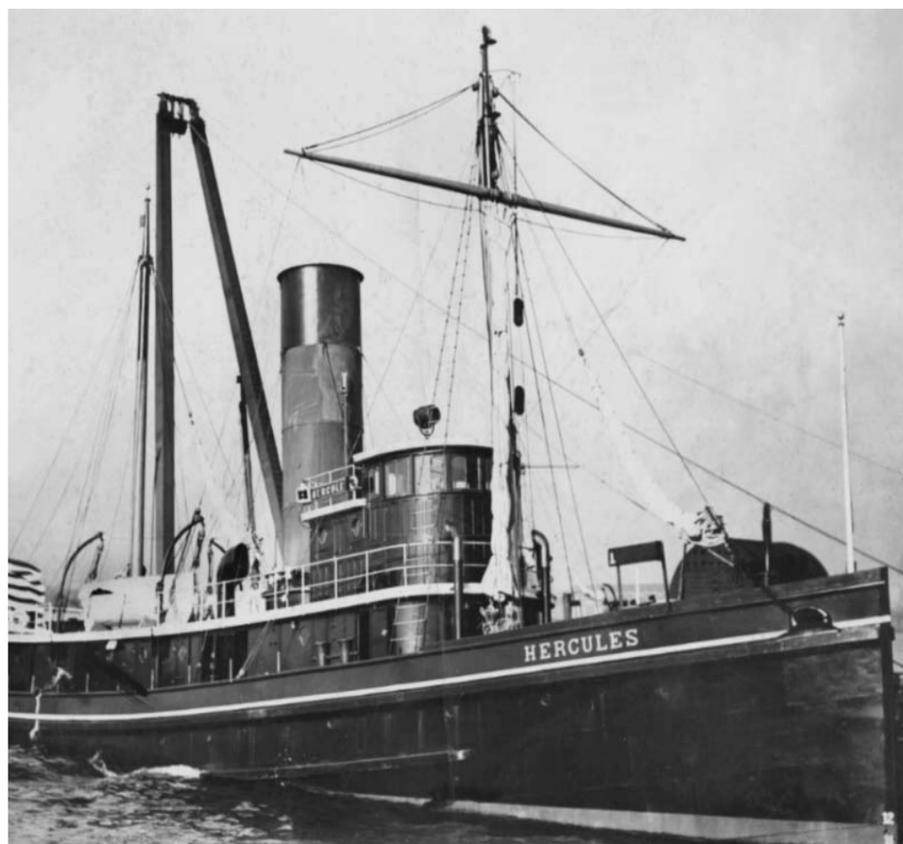
The ocean-going steam tug *Hercules* was built in 1907 for a job that is still performed today. Although long retired and approaching 100 years old, in her day, *Hercules* could tow anything that floated. On her maiden voyage from Camden, New Jersey to San Francisco, *Hercules* towed her sister tug *Goliah* and along the way weathered some severe storms. One storm produced waves that, as her captain described, had *Hercules* "snorting up on end." As *Hercules* climbed up the huge waves she almost sat straight up on her stern.

Today, looking out from the end of Hyde Street Pier, one can still catch sight of ocean tugs pulling their charges in from the mighty Pacific. Companies such as Crowley Maritime, Foss Maritime, and Pacific Tugboat Service all operate ocean tugs that are still hauling ocean barges which last century occupied so much of *Hercules*' time. Occasionally you'll see a ship being towed into or leaving the San Francisco Bay.

*Hercules* towed barges, sailing vessels like the schooner *C.A. Thayer* (another of the ships at San Francisco Maritime), and even giants like the battleship USS *California*. Her namesake would have been proud of her contribution to a job still very much in demand. In their way, *Hercules*, and the crew that sailed her, proved that oceans do not have to be barriers. They can also be highways.

By Chris Edwards, Park Ranger  
SF Maritime National Historical Park

Photo, top, right: *Hercules* in Camden, New Jersey in 1908 just prior to embarking on her 14,000 mile-long maiden voyage around Cape Horn to San Francisco. The *Hercules* has a triple expansion steam-powered 1000 HP (horsepower) engine. NPS Photo. Photo, right: The *Drew Foss*, a modern, ocean-going tug shown towing cranes on a barge in San Francisco Bay. The *Drew Foss* has a diesel-powered 3000 HP engine. Photo courtesy of Foss Maritime



## Volunteers Enrich Park Programs



Photo by Christobal Cortes

Historic Ship Preservationist Chris Jannini explains to a volunteer crew from the California State Automobile Association how to rig a block and tackle on *Balclutha*. A school group is also onboard for an overnight education program.

Volunteers at San Francisco Maritime help keep the park running by contributing their skills in a variety of ways. Many

spend time helping to maintain the historic ships and small craft by sanding, painting, and scraping. The year 2006 was notable in that volunteers contributed an increased number of hours to the interpretation and educational activities of the park.

During 2006 a fine art exhibit of the beautiful work of the maritime artist William A. Coulter drew thousands of visitors to the park's Visitor Center. The exhibit was the single largest collection of his art ever on public display. During the six-month long exhibit, dedicated volunteer docents provided a daily interpretive tour.

A hands-on interpretative tool of the park is the historic scow schooner *Alma*. Of the

nearly 400 scow schooners that once sailed the Bay *Alma* remains the only operational vessel of her type. During her heyday she transported hay, lumber, bricks, salt, and fertilizer between the growing city of San Francisco and the agricultural Bay Delta area.

Volunteers assist with educational programs that take place onboard the *Alma* and the historic ship *Balclutha*. Upon boarding these floating classrooms, volunteers and students quickly gain a new appreciation for sea life as it was over a century ago.

Docents greeted visitors at the Visitor Center information desk, on Hyde Street Pier, and provided tours of the historic ships.

They also served as living history re-enactors transforming historic Hyde Street Pier to the year 1901.

The volunteer department hosted several corporate volunteer project days providing maintenance to the historic ships. Special thanks go to our park partners including the California State American Automobile Association, The GAP, KOIT Broadcasting, Philip Morris USA, the California Department of Health, Hands-On Bay Area, and the Volunteer Centers of San Francisco and San Mateo Counties.

For more information call 415-556-1613 or email [terry\\_dorman@nps.gov](mailto:terry_dorman@nps.gov).

By Terry Dorman, Volunteer Coordinator  
SF Maritime National Historical Park

### Visitor Information

#### Dates and Hours of Operation

The *Hyde Street Pier*, located at Hyde and Jefferson Streets, is open 9:30AM-5:00PM—last entry at 4:30PM (October 1-May 27), and 9:30AM-5:30PM—last entry at 5PM (Memorial Day-September 30).

The *Maritime Museum* (Aquatic Park Bathhouse Building), is located on Beach Street at the foot of Polk Street. The museum was closed in July 2006 for major renovation work. For more information, call the Visitor Center, 415-447-5000.

The *Visitor Center*, located at the corner of Hyde and Jefferson Streets, is open 9:30AM-5:00PM (October 1-May 27) and 9:30AM-7:00PM (Memorial Day-September 30).

The *Maritime Library*, located on the third floor of Bldg. E in Fort Mason Center (auto entrance at Buchanan Street and Marina Blvd), is open by appointment, Monday through Friday from 1:00PM-4:00PM, call 415-561-7030.

#### No-Fee Areas

Visitor Center, Hyde Street Pier, Aquatic Park Historic District and the Maritime Library (Fort Mason Center).

#### Boarding Pass (Entrance Fee For Historic Vessels): \$5.00

Free for supervised children under 16. Free with National Parks Pass, Golden Eagle, Golden Age/Access Pass or Park Annual Pass.

#### Reservations/Permits

Reservations for school groups and other educational groups must be made at least two weeks prior to your visit. At least one month's notice and application for Special Use Permits is required. Filming permits are arranged on an individual basis.

#### Contact Information

General Park Information: 415-447-5000  
Maritime Store: 415-775-2665  
Maritime Library: 415-561-7030

USS *Pampanito*: 415-775-1943  
Park Website: [www.nps.gov/safr](http://www.nps.gov/safr)  
Association Website: [www.maritime.org](http://www.maritime.org)

# Music, Tours, Events, Living History and Films

## MUSIC

### CHANTEY SING

Saturdays, December 2, January 6 and February 3, 8PM-MIDNIGHT. No fee. Aboard the historic vessel *Balclutha* at Hyde Street Pier. Reservations required: call 415-561-7171 or email [peter\\_kasin@nps.gov](mailto:peter_kasin@nps.gov).

Sing traditional working songs aboard a historic floating vessel. Bring a mug for hot cider served from the ship's galley.

### MUSIC OF THE SEA FOR KIDS

Saturdays, December 16, January 20 and February 17, 2PM. Aboard *Balclutha* at Hyde Street Pier. Vessel admission (under 16 free). History comes alive for kids in this special program, where the songs are geared for younger ears and chosen especially for fun. Ages 7 and up. ☺

## HOLIDAY EVENT

### CHRISTMAS AT SEA

Saturday, December 9, 3:00PM. Aboard the historic vessels at Hyde Street Pier. Vessel admission (under 16 free). For information call 415-447-5000.

Bring the whole family down to Hyde Street Pier for an old fashioned holiday. Music, refreshments, ornament-making and a visit from Santa (by boat) will be part of the fun from 3PM to 4:45PM. Then, beginning at 6PM, the park's costumed Living History players will present a special holiday program aboard the ships. Reservations required for the 6PM program. ☺

## AFRICAN AMERICAN HISTORY MONTH

### CHANTEYS: THE AFRICAN AMERICAN AND CARIBBEAN CONNECTION

Saturday, February 24, 3PM. Aboard *Balclutha* at Hyde Street Pier. Vessel admission.

Join Park Ranger Peter Kasin and Park Volunteer Richard Adrianowicz in a program of African American and Caribbean based work songs of sailors and dock workers. The choruses to these chanteys are easy to sing and participants are encouraged to sing along.



### AFRICAN AMERICANS AND WORLD WAR II LIBERTY SHIPS

Sundays, February 11 and 18, 2PM. In the Visitor Center theater. No fee.

A slide program detailing the contributions of African Americans to the construction and operation of Liberty Ships during World War II.

### ☺FUN FOR FAMILIES PROGRAM

### EXHIBIT: AFRICAN AMERICANS IN THE MARITIME TRADES

Daily, throughout February. On Hyde Street Pier.

Photo exhibit about the contributions of African Americans in maritime industries.

## PROGRAMS

### CAULKING A SEAM

Sundays, December 17 and January 14, NOON. Aboard *Balclutha* at Hyde Street Pier. Vessel admission.

Watertight seams were essential on wooden sailing ships. Park Ranger Carol Kiser demonstrates the steps involved in caulking a deck seam. ☺

### EUREKA ENGINE ROOM TOUR

Sundays, December 17, January 21 and February 25, 2PM. Meet on Eureka's gangway. Vessel admission.

Take a special tour of the ferryboat *Eureka's* engine room and get a close-up look at what makes a steam ferry run.

### HERCULES ENGINEERING TOUR

Sundays, December 3 and January 7 at 2PM; February 4 at 3PM. Meet at the gangway on the Pier. Vessel admission. Tour includes climbing moderately steep ladders and entering cramped spaces.

Explore the major engineering spaces and learn about steam engine technology and its effects on the working environment of the marine steam engineer.

### THE OCEAN: BARRIER OR HIGHWAY?

Sundays, December 10 and January 14 at 2PM; February 11 at 3PM. In the Visitor Center.

Was the ocean a barrier or a highway for the vessels *Balclutha*, *Thayer* and *Hercules*? Join a ranger for a thirty minute slide presentation to examine this question.

### MARITIME HEROICS IN THE 1906 EARTHQUAKE AND FIRE

Saturdays, December 2, January 27 and February 24, 2PM. In the Visitor Center theater.

While San Francisco burned, sailors evacuated thousands of residents forced to flee to the shores of San Francisco Bay (at the present site of the park). Join a ranger for a slide presentation about these heroic efforts.

### SMALL CRAFT ON HYDE STREET PIER

Saturday, December 30 and Sunday, February 4, 2:00PM. Meet at the Small Boat Shop. No fee.

Join a Park Ranger for a special tour of the unique collection of small craft berthed on Hyde Street Pier's floating docks.

### SMALL CRAFT COLLECTION TOUR

Saturday, January 29, 9:30AM-2:30PM. Meet at the Small Boat Shop. No fee. Reservations required; call the Boat Shop at 415-556-4031.

Bring a bag lunch and ride with us over to our small craft warehouse in Alameda. We'll tour the collection of nearly 100 local historic boats, discussing interesting elements of their history, design and construction.

## MODELMAKING

### MODELERS' WORKSHOP

Saturdays, open throughout the fall, beginning at 9:30AM. On the car deck of the *Eureka*. Vessel admission.

The Hyde Street Pier Model Shipwrights will be conducting ship model building classes in the model shop on *Eureka* every Saturday. Classes begin at 9:30am and continue into the afternoon. Anyone interested in building ship models is invited to participate. Each participant will select

and obtain a model and receive individual instruction during each stage of construction. Modelmeister Paul Reck, who has built models on display in the Visitor Center and St. Francis Yacht Club, will be the primary instructor. Please drop by any Saturday morning. For information, contact Leo Kane at [kanebulota@sbc-global.net](mailto:kanebulota@sbc-global.net) or Paul Reck at [stoddardNH@comcast.net](mailto:stoddardNH@comcast.net).

## COSTUMED LIVING HISTORY

### A DAY IN THE LIFE: 1901

Saturday, December 9, 6PM-9PM. Aboard the historic vessels at Hyde Street Pier. Vessel admission.

See the Holiday Event description.

## IN THE LIBRARY

### THE RUSSIAN NAVY VISITS SAN FRANCISCO

Saturday, January 13, 6PM. In the Maritime Library, Building E, Fort Mason Center. Fee: \$5 (\$4 Library Friends and SFMNPA) Reservations: 415-561-7040.

During the Civil War, Russia alone of the great European states gave no support to the Confederacy. Doctor C. Douglas Froll will tell the story of the Russian Navy's surprise visit to San Francisco in 1863, lending support to the Union in the face of Confederate raids in the Pacific and influencing the course of events by its presence.



### CROSSING THE LINE — POLLYWOGS TO SHELLBACKS

Saturday, February 3, 2PM. In the Maritime Library, Building E, Fort Mason Center. Fee: \$5 (\$4 Library Friends and SFMNPA) Reservations: 415-561-7040.

When crossing the equator for the first time, sailors must be officially welcomed to the realm of King Neptune. San Francisco Maritime NHP's Living History Players will present a traditional line-crossing ceremony, and will talk about festivities that accompany it, then and now.

## VOLUNTEERS

### WOULD YOU LIKE TO GET INVOLVED AS A VOLUNTEER?

At San Francisco Maritime, our volunteers provide a variety of services that support the museum exhibit shop, ships division, small boat shop, maritime library, historic documents department and interpretation and education. We have the perfect challenge for you! Call the Volunteer Office at 415-556-1613, or visit [www.nps.gov/safr](http://www.nps.gov/safr) and join the crew.

### ARE YOU INTERESTED IN BEING A DOCENT AT THE PARK?

As a docent you will work in the visitor center providing information to visitors, give

tours of the historic ships, and get to work in a beautiful park right on San Francisco Bay. We will be offering a free docent training class this spring. Call 415-556-1613 for more information.



Cartoon by Phil Frank

## FILM FESTIVAL

SAN FRANCISCO OCEAN FILM FESTIVAL Friday and Saturday, January 14 and 15. Cowell Theater, Fort Mason Center.

The Festival features independent film works that reveal the beauty, power and mysteries of our oceans. Catch the fourth wave of the Ocean Film Festival. In partnership with San Francisco Maritime NHP. For details go to [www.oceanfilmfest.org](http://www.oceanfilmfest.org).

## AGE OF SAIL

The San Francisco Maritime National Park Association's Age of Sail education program is booking programs for the school year. These programs offer hands-on, student-centered learning, and take place aboard the park's historic vessels at Hyde Street Pier. Programs range in cost from \$25 to \$64 per student. For information call Lucas Lineback at 415-567-4653, [ageofsail@maritime.org](mailto:ageofsail@maritime.org) or [www.maritime.org/nmmaedu](http://www.maritime.org/nmmaedu).

## WWII SUBMARINE USS PAMPANITO

Open daily. At Pier 45, Fisherman's Wharf. Fee: adults, \$9; 6-12, \$4; under 6 free with adult; over 62, \$5; active duty military, \$4; family ticket, \$20. Information: 415-775-1943.

The Balao-class USS *Pampanito* (SS-383), a museum and memorial owned and operated by the San Francisco Maritime National Park Association, made six patrols in the Pacific during World War II. Admission includes a self-guided audio tour.

## Sign Aboard at the Park Association

You can show your support for the Park through membership in the Maritime Park Association, our non-profit partner organization. Your membership assists with preservation and education projects for Park ships and collections. Membership comes with special benefits at each level, including the *Sea Letter* magazine, free park admission, and Maritime Store discounts. For more information, call Member Services at 415-561-6662 x12, or go to [www.maritime.org](http://www.maritime.org).

## Today In The Park

### DECEMBER

- 2 Maritime Heroics in 1906 Earthquake and Fire Chantey Sing Modelmaking Workshop
- 3 Hercules Engineering Tour
- 8 Sea Music Concert on *Balclutha*
- 9 Cruise of the *CSS Shenandoah* Holiday Program: Christmas at Sea including the costumed Living History players Modelmaking Workshop
- 10 The Ocean: Barrier or Highway?
- 16 Music of the Sea for Kids Modelmaking Workshop
- 17 Caulking a Seam Eureka Engine Room Tour

- 23 Modelmaking Workshop
- 25 Park Closed
- 30 Small Craft on Hyde Street Pier Modelmaking Workshop

### JANUARY

- 1 Park Closed
- 6 Chantey Sing Modelmaking Workshop
- 7 Hercules Engineering Tour
- 13 Cruise of the *CSS Shenandoah* Modelmaking Workshop The Russian Navy Visits San Francisco
- 14 Caulking a Seam The Ocean: Barrier or Highway?
- 20 Small Craft Collection Tour Music of the Sea for Kids Modelmaking Workshop

- 21 Eureka Engine Room Tour
- 27 Maritime Heroics in 1906 Earthquake and Fire Modelmaking Workshop

### FEBRUARY

- 1 African American History Month exhibit opens
- 3 Crossing the Line: Pollywogs to Shellbacks Chantey Sing Modelmaking Workshop
- 4 Small Craft on Hyde Street Pier Hercules Engineering Tour
- 10 The Cruise of the *USS Shenandoah* Modelmaking Workshop
- 11 African Americans and World War II Liberty Ships The Ocean: Barrier or Highway?

- 17 Music of the Sea for Kids Modelmaking Workshop
- 18 African Americans and World War II Liberty Ships
- 24 Maritime Heroics in 1906 Earthquake and Fire Chanteys: The African American and Caribbean Connection Modelmaking Workshop
- 25 Eureka Engine Room Tour



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# Fun and Education for Younger Sailors

## Of Flying Fish and Sailing Cats

Over 110 years ago Joseph Knight was a cook on the full-rigged ship *Balclutha*. He loved to tell stories about shipboard life, but he liked to have a little fun with his listeners by mentioning objects in his stories that couldn't possibly have existed 110 years ago. Use your imagination and pretend Joseph Knight could see into the future. Read the story below and see if you can identify the five things that do not belong. Circle the words when you find them.

Being a cook aboard a sailing ship like *Balclutha* was a challenge every day. Not only did I have very little to work with, but I heard complaints all the time about the quality of the food. This is a story about the time I gave the sailors a challenge and they were outperformed by a cat.



foods I made were stews-lobscouse or crackerhash-and it was hard to make them appealing without fresh vegetables or fresh meat. There was simply nothing in the refrigerator. All I had to use were dried or preserved foods: hard tack; peas; beans; frozen pizza; a little bit of dried fruit; and beef or pork that had been preserved in salt. I had started to mash up some hard tack for a stew when one of the sailors stopped and made a not-very-nice comment about my planned meal. "Hey!" I said, "Why don't you do something about it and catch me a fish or two?"

That afternoon, he and some others went fishing, substituting a strip of canvas for bait. I guess the fish weren't fooled because an hour later none of them had

caught any fish. Discouraged, they lay around on the deck, watching television.

Stretch, the cat, was laying about as well but she had one eye open, ever alert. Suddenly, a school of flying fish leapt out of the water not ten feet from where the sailors were sitting. The sailors gasped in despair as they realized the fresh food they wanted was so close and yet seemingly impossible to catch. Then one of those fish misjudged its leap and soared over the side of the ship. The cat moved so quickly, the sailors didn't even have time to get up. She leapt upwards, snagging that fish right out of the air. It seems that Stretch knew something that's true even today: if you're far from home and you've run out things to eat, you can always have food delivered!

One calm day in the spring of 1890, we were several days out of San Francisco and I was thinking about dinner . . .well, actually I was thinking about dessert. There were only a few Oreo cookies left so I set about to make some "duff" for the crew. I chopped up some hard tack (a hard biscuit made of flour and water) until it was powdery and mixed it up with a little grease left over from the previous night's stew. Then I stirred in a handful of raisins. Usually I'd pour the batter into a canvas bag and boil the whole thing until it was cooked through, but on this particular day, I decided to just toss it in the microwave. Two minutes on medium and you're done!

The main course was more challenging. Most of the



NPS Photo

Kansas, the cook, sitting outside the galley. Kansas is a member of the park's costumed living history group.



NPS Photo

Beef preserved in salt and hard tack were typical foods eaten by sailors. What? No cheerios?

Microwaves for use in the home: 1967  
Portable television: 1959  
Oreo Cookies invented 1912  
Frozen pizza: 1957  
Electric refrigerator: 1927

