

**General Oceanography
Geology 105
Discovery Voyage on San Francisco Bay**



Students select one of the following:

Saturday March 5, 2011

Morning Voyage 7:40 am to 12:00

or

Afternoon Voyage 12:35 to 5:00 pm

Students will participate as scientists on a 4-hour marine research/education expedition with the Marine Science Institute on the R/V Robert G. Brownlee. During the voyage, students will work in teams sampling fish populations in the bay, determining water quality properties, analyzing plankton tows, and collecting and identifying samples of sediment and benthic (bottom-dwelling) organisms.

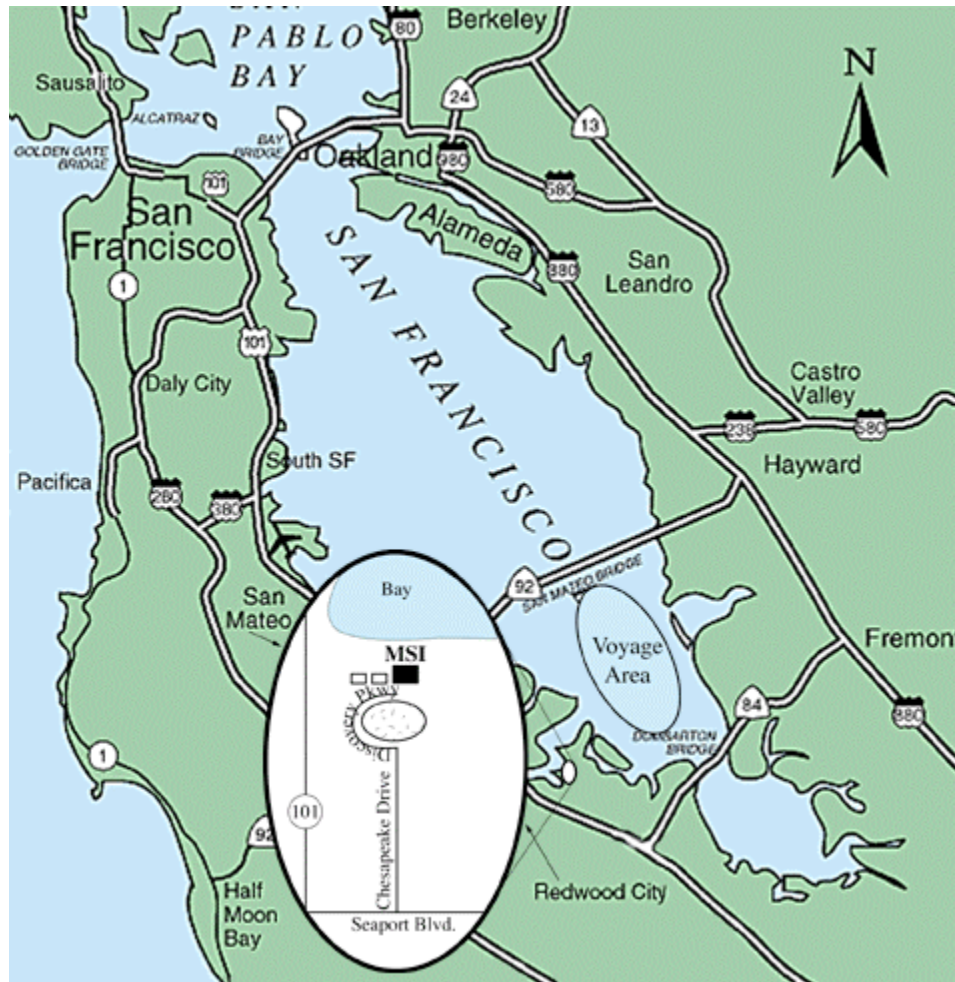
Location of Marine Science Institute is shown on the map below (phone 650-364-2760 at the Institute). Detailed directions are given later in this worksheet.

All data acquired during the cruise will become part of a scientific database on the ecological health of the San Francisco Bay-Delta-Estuary -- this is the real thing -- not play time (but fun)!

What to bring and wear?

- **Wear rubber soled shoes!!!!** Also shoes may get a little wet or muddy so do NOT wear your best pair.
- **NO OPEN-TOED SANDALS ARE ALLOWED - NO FLIP FLOPS!**
- Clothes may get some mud or fish scales on them -- so wear appropriate clothing - no fashion statements!
- You may get a little wet and muddy as the students handle the fish, mud and water samples!
- Bring a jacket as it can be cold, if there is a wind.
- Wear your clothes in layers that can be removed or put back on -- it may be either COLD or HOT even in the same day!
- Definitely bring a hat (maybe sunglasses) as it will be sunny plus a bright reflection off the water -- avoid SUNBURN!
- Bring SUNSCREEN! Here is a quote from a previous student "When Don tells you to put on sunscreen... please do it!"
- It is OK to bring some snack food, but not lunch.
- Eat breakfast before boarding the ship (there are picnic tables at the dock and you will have a little time to eat prior to departure on the boat.
- Water and restrooms are available on the ship and at the dock

Location



500 Discovery Parkway
Redwood City, CA 94063-4715
(650)-364-2760 (phone)
(650)-364-0416 (fax)

Please do not use address to map a route on the internet. You will receive incorrect directions!

From the North Bay:

Take 101 South from San Francisco, heading toward San Jose. Exit off of Highway 101 at Woodside Rd./Seaport Blvd. As you exit, take Seaport Rd. toward the Bay (to the East). Take Seaport Rd. to Chesapeake Dr. and turn left on Chesapeake into the business park. Follow Chesapeake and turn left on Saginaw. Then turn right on Cardinal Way. Follow Cardinal Way all the way to the end. The Marine Science Institute is located in the offices by the American Flag.

From the South Bay:

Take 101 North from San Jose, passing the exit for the Dumbarton Bridge. Exit off of 101 North at Woodside Rd./Seaport Blvd. As you exit, take Seaport Rd. toward the Bay (to the East). Take Seaport Rd. to Chesapeake Dr. and turn left on Chesapeake into the business park. Follow Chesapeake and turn left on Saginaw. Then turn right on Cardinal Way. Follow Cardinal Way all the way to the end. The Marine Science Institute is located in the offices by the American Flag.

From the East Bay:

Take 880 South from Oakland to the San Mateo Bridge (Hwy 92). Cross the San Mateo Bridge and get on Highway 101 South toward San Jose. Exit off of Highway 101 South at Woodside Rd./Seaport Blvd. As you exit, take Seaport Rd. toward the Bay (to the East). Take Seaport Rd. to Chesapeake Dr. and turn left on Chesapeake into the business park. Follow Chesapeake and turn left on Saginaw. Then turn right on Cardinal Way. Follow Cardinal Way clockwise all the way to the end. The Marine Science Institute is located in the offices by the American flag.