

# Mandatory Field Trip #1

## Coastal Geology/Tectonics and Marine Sediments

### Torrey Pines Beach - San Diego, CA

**Thursday, June 21, 2018**

#### Introduction

Students are required to attend this fieldtrip during normally-scheduled class time and complete a field trip worksheet during the fieldtrip. The fieldtrip worksheet is due at the end of the fieldtrip.

#### The First Mandatory Fieldtrip

**Date:** Thursday June 21 -- Meet at 11:15 AM Finish by 12:45 PM

**Extra Credit Option:** Arrive one hour early (10:00 am) and spend 1 hour in the ocean with the professor, or pick up trash on the beach for one hour and earn 3 extra points. Note that you must personally contact the instructor at the meeting location at 10:00 am and then at 11am to earn the extra credit.

**Where:** Torrey Pines State Reserve Beach, San Diego. We will meet across from the bathrooms near the park entrance located off the Pacific Coast Highway against a big hill next to the beach (**NOT** the bathrooms near the river mouth and bridge!). Park either along the highway (for free) or go into the park (pay an \$12 fee). Don't be late!

**How to Get There:** go to this site for maps and directions to the meeting place:

<http://www.torreypine.org/parks/basic-information.html>

**How long?:** The trip will probably take about one and a half hours to complete (11:15 am to 12:45 pm).

**Cancellation due to Weather:** The field trip will be cancelled if it rains (very unlikely!!).

**General Purpose:** To familiarize students with the coastal geology of San Diego County, and to better understand the concepts concerning sedimentary rocks, depositional environments, shoreline processes, geomorphology, weathering and erosion, with an emphasis on geologic history of San Diego.

**Activities:** Observe, study, and discuss the geology of the local rock formations and beaches of coastal San Diego.

**Field Assignment:** Students will be required to complete a short field trip question handout, which includes answering fill-in questions, observing ocean and bluff conditions, and writing a short reflection on the field trip experience to be turned in via the online classroom assignment portal.

**Grade Points:** Students will receive 30 credit grade points for completed the field trip, which includes attendance and the completion and submittal of a written reflection.

**What to Bring:** Students should bring the worksheet, a clipboard, writing tools, water, sunscreen, and a camera. Surfboard and Frisbee optional.

**Remember to bring a copy of the in-person fieldtrip worksheet - questionnaire. Download a copy from this link:**

[http://www.seascisurf.com/costa\\_ocean\\_fieldtrip1\\_worksheet.pdf](http://www.seascisurf.com/costa_ocean_fieldtrip1_worksheet.pdf)

**What to Wear:** Loose, comfortable clothes (T-shirt and shorts is good) along with a sweatshirt or windbreaker. Beach weather may range from sunny and warm to overcast and cool. So it is a good idea to be prepared either way.