

# Voluntary Extra Credit Field Trip #4

## Marine Life and Environmental Issues

### – BIRCH AQUARIUM AT THE SCRIPPS AT INSTITUTION OF OCEANOGRAPHY -

**Sunday May 5, 2019 -- 9:00 am to 1:00 pm**

#### Introduction

This fieldtrip assignment involves participating in a field trip to the Birch Aquarium in La Jolla, CA. The focus of this fieldtrip is on west coast marine life, their habitats, and the environmental issues that they face. Students must complete a field trip worksheet during the fieldtrip, and write a reflection. Students can earn 15 extra credit points for this fieldtrip.

**When:** Sunday, May 5<sup>th</sup>. Excursion starts at 9:00 am and will finish at 1:00 pm. Take note that this field excursion can also be done at any other time (self-guided), but that in order to get credit, you must include a photocopy of your admittance receipt with your completed worksheet.

**Meet Where:** The Birch Aquarium is near UCSD - next to Scripps Institute of Oceanography. We will meet out in front of the aquarium at 9:00 am sharp. The price of admission for students with an ID is \$12.00 with a student coupon purchased online. There is free parking.

**How long?:** The extra credit field excursion will take up to 3 hours to complete.

**Purpose:** To familiarize students with marine life, including the impacts humans have on nature, and the impact nature has on humans.

**Field Assignment:** Students will be required to complete a field trip handout, which includes observations and answering fill-in questions, and writing a short reflection on the field trip experience.

Download the questionnaire worksheet from this URL:

[http://www.seascisurf.com/inperson\\_fieldtrip4\\_worksheet.pdf](http://www.seascisurf.com/inperson_fieldtrip4_worksheet.pdf)

**What to Bring:** Students should bring a copy of the worksheet, a clipboard, and writing tools, water, and a camera.

**What to Wear:** Loose, comfortable clothes (T-shirt and shorts is good) along with a hat and 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.

**Birch Aquarium Info Page:**

<http://aquarium.ucsd.edu/visitor/>

**How to Get There:** Directions to fieldtrip with guide map and directions, and Birch Aquarium admission costs are found on the link below this one.

<http://maps.google.com/maps?hl=en&lr=&safe=off&rls=GGIC.GGIC:2006-50.GGIC:en&q=stone%20steps%20beach%20map&btnG=Search&ie=UTF-8&oe=UTF-8&sa=N&tab=w>

## **Optional Virtual Field Assignments:**

Students who do not go on the in-person fieldtrip may complete the online alternative assignments. Those students that opt for the alternative virtual assignment must answer a set of exercise questions that are included in the online Worksheet file included on this assignment page below. You need to return your written answers to those questions by the schedule deadline in order to receive credit. These alternate assignments also focus on west coast marine life, their habitats, and associated environmental concerns.

**Option #1 Alternate Assignment – Birch Aquarium Virtual Fieldtrip (6 E.C. points)**

**Option #2 – Alternative Fieldtrip Assignment – Marine Fisheries and Environmental Concerns (6 E.C. points)**

A copy of the complete virtual fieldtrip information and worksheet is found at this link:

**Worksheet link:** [http://www.seascisurf.com/virtual\\_fieldtrip4\\_info.htm](http://www.seascisurf.com/virtual_fieldtrip4_info.htm)

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## **Option #2 – Alternative Fieldtrip Assignment – Marine Fisheries and Environmental Concerns (not yet available)**

**Field Assignment:** Students need to complete a question-based worksheet on the virtual field trip experience to be turned in via the online classroom assignment portal. You need to return your written answers to those questions in the Fieldtrip #4 Assignment submit section) as a response to this assignment in order to receive extra credit. This “virtual” fieldtrip focuses on marine life and habitats under pressure from fishing, harmful fishing techniques, and other environmental concerns affecting the ocean, including over-nitrification and global warming. This assignment is composed of two parts: Fisheries and Ocean Pollution.

This assignment can be completed online, and is composed of two parts:

- I. Environmental Concerns of Fisheries: Overfishing, By-catch, and Bad Fishing Techniques**
- II. Coastal Marine Pollution: Major Types, Sources, Impacts, and Solutions**

A copy of the complete virtual fieldtrip information and worksheet is found at this link:

**Worksheet link:** [http://www.seascisurf.com/virtual\\_fieldtrip4\\_info.htm](http://www.seascisurf.com/virtual_fieldtrip4_info.htm)