

**UC Santa Barbara Diving Safety Program** Project ID #  
**Research Dive Plan Proposal**

**Date Submitted:** 07.28.2005

**Submitted By:** Scott Simon

**Dates Proposed:** 08.04.2005-08.08.2005

**Dept:** MSI/EEMB

**Principal Investigator:** G. Hofmann

**Project Dive Manager:** Scott Simon

**General Dive Site Location:** Bahia de Todas Santos

**Proposed # of Dives per day/week:** 1 /3

**Max. and Average Dive Depths:** 10/5 m **Min. Surface Interval Time:** 1:00:00

**Estimated # of Research Divers:** 2 **Use of Undergraduates:** Yes No Maybe

**Mode:**

Open Circuit (SCUBA)  Closed Circuit  Hookah  Surface-Supplied

**Environment:**

Coastal  Island  Blue water  Oil Platform  Seeps  Ice/Polar  Altitude

**Dive Entry:**

Shore  UCSB Boat  other R/V:  Other: private boat

**Breathing Gas:**

Air  Nitrox ( %O2)  Other:

**Air Compressor:** Is the compressor being used owned by the university.

Yes  No If No, then list owner:

**SCUBA Cylinders:** Hydrostatically tested within the past 5 yrs and visually inspected within 1 yr.

Yes  No

**Air Tools:** Will air tools (lift bag, vacuum, drill etc) be used for this project.

Yes  No

**Joint Diving Operations** (*Diving conducted jointly with other agencies/institutions*)

Yes  No If Yes, list agencies/institutions:

**Oxygen at Site:**

Yes  No

**First Aid at Site:**

Yes  No

**Dive Flag at Site:**

Yes  No

**Nearest Medical Treatment Facility to Dive Site:**

- Location: HOSPITAL DEL MAR Arenas 151,
- Telephone: (646) 173-4500(English spoken)
- Transportation Method & Distance: TBD/75 miles

**Nearest Recompression Treatment Facility to Dive Site:**

- Location: UCSD Medical Center hyperbaric chamber
- Telephone: Dr. Karen Vanhoesen 619 543-5222
- Transportation Method & Distance: TBD/13 miles

**Emergency Contact Numbers:**

- Local EMS telephone number - MexicoRedCross (Emergency):066
- United States Coast Guard – Channel 16 on Marine VHF Radio
- **Diver's Alert Network (DAN): 1-919-684-8111 or 1-800-326-3822**
- **UCSB's Diving Safety Cell Phone: (805) 451-5099**

**Detailed Dive Plan:**

*(Describe sub-tidal techniques: add separate pages, diagrams and/or a copy of the proposal if necessary)*

Dives to take place at slack high tides between 10 and 11 am. each day. Site 1: Arbolitos (south side of Punta Banda) Beach Entry. Site 2: Tres Hermanos (north side of Punta Banda,, Beach Entry. Site 3 Isla Todos Santos (~7 miles off Ensenada Coast) Boat Entry.

**List of sampling equipment and other tools not listed in dive plan:**

*(sampling equipment, compressor, air tools: drills, vacuum, lift bags, scooters, etc)*

**Hazardous Conditions Anticipated:** *(cold water, currents, deep depths, low visibility, etc)*

Surf and surge are only conditions which may be potentially anticipated.

**Safety Precautions/Training:**

My dive certification levels include Rescue and Asst. Instructor. All safety precautions will be maintained in accordance with this level of certification.

### Expected Dive Team Members *(if known)*

**UCSB Research Diver:**

Name	Depth Certification
<b>1. Diver in Charge: Scott Simon</b>	30ft
<b>2. Elizabeth Hoagland #1372</b>	30ft
<b>3.</b>	Select Depth
<b>4.</b>	Select Depth
<b>5.</b>	Select Depth
<b>6.</b>	Select Depth
<b>7.</b>	Select Depth
<b>8.</b>	Select Depth

**Visiting Research Diver:** *(AAUS Reciprocity Form also required from Agency/Institution's DSO)*

Name	Agency/Institution	Depth Certification
<b>1.</b>		
<b>2.</b>		
<b>3.</b>		
<b>4.</b>		
<b>5.</b>		

### General Dive Plan Considerations

- Any diver has the right to refuse to dive without fear of penalty if s/he feels the conditions are unsafe or unfavorable **OR** the dive violates the precepts of their training **OR** the regulations of the UCSB Diving Safety Program. UCSB Dive Manual: <http://ehs.ucsb.edu/units/diving/dsp/html/dsm.html>
- All Dive plans **MUST** be based on the competency of the least experienced diver.
- An ascent rate of **30ft/min** and a precautionary stop at **15-20ft for 3-5min** should be made for each dive.
- Depth certification levels may be extended only to the next deepest certification level and only if the diver with the limiting depth certification level is buddied with a diver certified to the deeper depth level.
- For all diving conducted under hazardous conditions a plan must be formulated to deal with such conditions.
- All divers using dive computers to plan dives and indicate or determine decompression status will follow the AAUS recommended dive computer guidelines noted in the Dive Manual.
- Plan dives conservatively and maximize surface intervals.
- A diver should wait at least **24hrs** before flying or traveling to altitude (1000+ft) after any dive.
- An Emergency Plan should be reviewed for each project including the following: emergency contact information (including name, relation and telephone number may be available on Webdiver) for each diver, nearest recompression chamber, nearest accessible hospital and anticipated means of transportation.

## **Diving Accident Emergency Management Plan**

A diving accident victim is any person who has been breathing air underwater regardless of depth. It is essential that emergency procedures are pre-planned and that medical treatment is initiated as soon as possible. It is the responsibility of the "Diver-In-Charge" to develop procedures for such emergencies including evacuation and medical treatment for each dive location.

### **General Procedures:**

Depending on and according to the nature of the diving accident, stabilize the patient, administer 100% oxygen, and initiate the local Emergency Medical System (EMS) for transport to nearest medical facility. Explain the circumstances of the dive incident to the evacuation team, medics and physicians. Do NOT assume that they understand why 100% Oxygen may be required for the diving accident victim or that recompression treatment may be necessary.

- 1. Rescue victim and/or position so the proper procedures may be initiated.**
- 2. Establish (A)irway, (B)reathing and (C)irculation as required.**
- 3. Administer 100% oxygen, if appropriate (in cases of Decompression Illness or Near Drowning).**
- 4. Activate the local EMS for transport to the nearest appropriate medical facility. (the local EMS will vary from site to site – it must be stated in dive plan)**
- 5. Contact the Diver's Alert Network as deemed necessary.**
- 6. Contact Diving Safety Officer (DSO) and Emergency Contact Person, as deemed necessary.**
- 7. Complete and submit Incident Report Form (in manual) to DSO.**

### **Diver's Alert Network (DAN): 1-919-684-8111 or 1-800-326-3822**

- 24 hour medical advise—if necessary call collect and state "I have a Medical Emergency"—Use to locate closest recompression chamber or physician consultations. The emergency procedures for all dive sites in the Santa Barbara area are in the Oxygen Kits.

***UCSB's Diving Safety Cell Phone # (805) 451-5099***