# 

***DATE:***

***Project P.I.:***

***Project Co-P.I.:***

***Lead Diver for the Project:***

**It is the responsibility of the P.I. and Lead Diver to ensure that all divers are current and that equipment used has recently been serviced prior to use in the field.**

***Name and Description of Project:***

***Project Location and Duration:***

***Estimated maximum depths and bottom times anticipated:***

***Estimated number of dives required to complete project:***

***List any special equipment, diving conditions, or boats to be used:***

***Names of divers (and affiliation, if other than SDSU) involved with the project:***

***Name Current Certification Depth Estimated Number of Career Dives***

***Please list the emergency information (i.e. nearest chamber, phone #'s, evacuation plans, etc.) for each project dive location:***

***Special Safety Concerns***

***Please list and provide resolution to any project-specific dive safety concerns***

# General Emergency Procedure

For non-diving injuries, first aid will be administered as appropriate for the injury commensurate with the first responder’s level of training. Injured will then be transported to the nearest medical facility for further treatment.

For suspected DCS or other dive-related injuries possibly requiring recompression, appropriate first aid and supplemental oxygen will be administered as quickly as possible, and DAN USA (1-919-684-9111) will be contacted immediately. DAN will provide guidance as to the treatment of the diving injury as well as arrange for any medical treatment/evacuations that are required. Following discussions with DAN, injured personnel will be treated onsite and transported to the nearest hospital/recompression chamber as directed by DAN. Numbers for regional DAN offices are listed below.

Prior to beginning work at any field site, local emergency response numbers and locations will be verified.

As early as possible during the emergency, the P.I. and SDSU DSO will be called to inform them of the situation.

# DIVERS ALERT NETWORK

# 24-Hour Emergency Hotline Numbers

|  |  |
| --- | --- |
| **DAN Asia-Pacific Philippines** | **02-632 1077 (within Philippines – English & Filipino)** |
| DAN Asia-Pacific Malaysia | 05-681 9485 (within Malaysia – English & Malay) |
| DES Australia (funded by DAN) | 1800-088 200 (toll free within Australia – English Only) |
| DES Australia (funded by DAN) | +61-8-8212 9242 (from outside Australia – English Only) |
| DES New Zealand (funded by DAN) | 0800-4DES 111 (within New Zealand – English Only) |
| DAN Asia-Pacific Korean Hotline | 010-4500 9113 (Korean & English) |
| DAN Asia-Pacific Chinese Hotline | +852-3611 7326 (Chinese & English) |
| Singapore Naval Underwater Medical Centre | 6758 1733 (English & Chinese) |
| DAN America | +1-919-684 9111 (collect)  1-800-446-2671 (toll-free) |
| DAN Non-Diving Assistance | 1-215-245-2461 (collect)  1-800-326-3822 |
| DAN Europe | +39-06-4211 8685 |
| DAN Japan | +81-3-3812-4999 |

List of Suggested Safety Equipment:

1) DAN Oxygen Kit

2) DAN REMO kit

3) Marine first aid kit

4) AED

5) EPIRB

6) Local Cell Phone

7) Global Satellite Phone

In addition, boats used at each location will be inspected for:

Marine radio

Personal floatation devices

Fire extinguisher

Bailing bucket

Spare parts

Diver safety equipment: All members of the team should be equipped with a dive computer, safety sausage, above water and underwater signal devices, and dive knife. All members of the dive team will practice with safety equipment with the lead divers and boatman prior to beginning diving activities to ensure familiarity of both divers and support personnel with the safety equipment.

Special Safety Procedures:

1. Air supply. Whenever possible, the compressor will be inspected to ensure that intake air cannot be contaminated by compressor exhaust or other exhaust sources. Ideally a portable CO detector will be used to further reduce risk of contamination in air supply.
2. Currents. To minimize the dangers of currents, most diving activities will occur in environments where exposure to currents will be minimal. In the event that the research requires diving in currents, such dives will only occur on slack tides low tides so that developing currents will carry divers into the sheltered areas.
3. Nitrogen saturation. As a guideline, no more than 10 dives will occur per each four-day period. Thus there will be less than three dives a day, on average. Once this limit has been reached, diving should be suspended to off-gas nitrogen. Following the end of the 4-day cycle, diving activities will resume, again, not exceeding 10 dives per 4-day period. No flights shall take place less than 24 hours following the diving activities. 48 hours will be allowed prior to long international flights.
4. Safety stops. All dives below 30 ft should be terminated with a minimum 3-minute safety stop at 12-15 ft to provide additional safety from decompression sickness.
5. When diving in shallow areas, divers will be reminded prior to diving activities that the pressure changes in the first 10m are the greatest, exposing the greatest risk of air embolism, and will be reminded to employ slow ascents, even under minimal nitrogen saturation.
6. Night diving. If night dives are to be performed, a day-time dive in the location to be visited at night should be performed by all the dive team members. All divers will have their own personal light source along with a “glow-stick” chemical lumen permanently attached to their tank valve.

Prior to the commencement of any diving activities, P.I. and Lead Diver will confer with the local divers to assess the conditions of the dive site, and provide a briefing about the conditions prior to diving. Based on the prevailing conditions, diving will only occur if conditions are deemed safe. All divers will have the right not to dive if the pre-dive briefing indicates conditions in which they are uncomfortable diving.

Pre-dive briefing will also include reading through a checklist reviewing the safety procedures, a review of the local evacuation plans) and a reminder that the participants have a right to not dive, should they feel uncomfortable in local conditions.

At the beginning of fieldwork, allow for a period of time where all participants are oriented to local diving conditions. Scientific diving protocols will be reviewed in detail, led by the P.I. and Lead Diver at the inception of diving activities, provide an extensive review of requirements for diving safely during the duration of the course. The Lead Diver will lead participants through a review of SCUBA rescue procedures. All participants will be oriented and practice using and handling all of the safety gear. Participants will be reminded that they always retain the right to not dive, for any reason.

**P.I. agrees that all diving done under the auspices of the San Diego State University will be carried out in accordance with the provisions of the current SDSU Diving Safety Manual. P.I. acknowledges that it is their responsibility to read the SDSU Diving Safety Manual and to comply with the regulations therein. P.I. understands that violation of any regulation may result in denial of, restriction of, or revocation of the diver’s SDSU scientific diver authorization.**

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P.I. Signature Date

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Lead Diver Signature Date

**Faculty Advisor Approval \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Diving Officer Approval \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_**