**\*Please fill in all areas highlighted in yellow with the relevant information for your group**

|  |  |
| --- | --- |
| **Field Site Location**: | **UCSB Santa Cruz Island Reserve** |
| **Activity Description:** | *Type, length, and intensity of activity (hiking, climbing, collections, capture)* |
| **Group Information:** | *Name of Research Group / Course, PI / Lead Instructor*  | *Revision number:*  | *1* | *Date of last revision:* | *Mo-Day-Yr* |
| **Travel Date(s):** | *If specific dates are not available please indicated a range or season. (3/15-28/2017, Fall 2018, garibaldi spawning season)* |

**A field safety plan serves as a tool to document your travel hazard assessment, communication plan, emergency procedures, and required training. Developing and using a field safety plan is part of the Cal/OSHA requirement of an effective Injury and Illness Prevention Plan (IIPP).**

**This plan should not only identify hazards but indicate how they will be addressed and mitigated. For any identified hazards indicate what steps will be taken to minimize the risk to participants.**

**Steps to prepare for field work:**

1. **Complete a field safety plan.**
2. **Complete appropriate training for your site and operations (heat illness, first aid, field communication, etc.).**
3. **Hold a pre-trip meeting to review your field safety plan, travel logistics, pack list (including first aid kit), etc. and cover any remaining training needs.**
4. **Register trips via** [**UC Away**](https://ehs.ucop.edu/away/) **for travel alerts, travel insurance documentation, and evacuation services.**

|  |
| --- |
| **Site Information** |
| **Geographic Location** | Name: Santa Cruz Island ReserveCoordinates (Latitude, Longitude): 34.03007N, -119.76725WLink to online map: https://santacruz.nrs.ucsb.edu/visiting/maps |
| **Site Information** | *Diverse habitats include rocky intertidal zones, coastal sage scrub, chaparral, grasslands, oak woodlands, and bishop pine forests* |
| **Travel to Site** | *Boat travel from Ventura, CA to Prisoners’ Harbor, Santa Cruz Island; 4x4 vehicle from Prisoners’ Harbor to the SCIR Field Station; on-island transportation needs will depend on individual groups’ site locations and needs. Please elaborate as necessary.* |
| **Wildlife** | *Mice found on the island may have hantavirus. Ticks are also present.*  |
| **Regional Stability** |  *Within California – no regional instability* |
| **Go/No Go Criteria** | *Ocean conditions can limit access and Island Packers Company will cancel boats in these cases; please call Island Packers Company (805-642-1393 x4) after 5:30am on the day of your departure to check trip status. Please elaborate on go/no go criteria as necessary for your group.* |
| **Site Access** | *Ocean conditions can limit access and Island Packers Company will cancel boats in these cases. Research site access can be limited due to on-island road conditions, weather, and other criteria. Please consult with SCIR staff in advance of your trip to confirm site access.* |
| **Expected Weather** | *Inland temperatures can reach 100 degrees (F) during summer months and nights can go below 30 degrees (F) during winter; temperature conditions can change rapidly on Santa Cruz Island and groups should plan to carry layers of clothing and enough water for the full day.* |
| **Drinking Water Availability** | *If forecast exceeds 80*°*, Cal/OSHA requires access to at least one quart (4 cups) per person per hour for the entire shift, i.e., an 8 hour shift requires 2 gallons per person. Water must be fresh and suitably cool.* [x] *Plumbed water available* [ ]  *Water cooler with ice to be provided* [ ]  *Bottled water provided* *If your group will be in the field for extended periods of time, please plan on bringing extra water bottles or coolers to refill your water. Tap water from the SCIR field station is potable and you can fill water bottles and coolers at the field station.*  |
| **Access to Shade/Shelter** | *If forecast exceeds 80*°*, shade must be provided by any natural or artificial means for rest breaks. Shade is not considered adequate when heat in the area does not allow the body to cool (e.g. sitting in a hot car). ­* [x]  *Building structures ­* [x]  *Trees ­* [ ]  *Temporary Canopy/Tarp ­* [ ]  *Vehicle with A/C ­* [ ]  *Other:**If forecasted temperatures are expected to be excessively hot, please plan your days accordingly and provide extra time for your group to rest in cool areas.* |
| **High Heat Procedures**  | *Required when temperatures are expected to exceed 95° F. If possible limit strenuous tasks to morning or late afternoon hours. Rest breaks in shade must be provided at least 10 minutes every 2 hours (or more if needed). Effective means of communication, observation and monitoring for signs of heat illness are required at all times. Pre-operations meeting required.* [ ]  *Direct supervision* [ ]  *Buddy system* [ ]  *Reliable cell or radio contact* [ ]  *Other:* |
| **Emergency Services and Contact Information** |
| **Local Contact** | *Jay Reti – Reserve Director* *805-550-5341**jayreti@ucsb.edu* | **University Contact****(Not participating in trip)** | *Name, number, email; may be a Professor/PI, department contact, supervisor back on campus, etc.* *Frequency of check ins: daily or other?*  |
| **Nearest Emergency Medical Services (EMS)** | *Sequoia National Park Dispatch 559-565-4221**Channel Islands National Park Dispatch 805-658-5720Santa Barbara Sheriff Office 805-683-2724**Garmin Inreach units are mandatory at the SCIR. The SCIR rents units to groups on a daily basis; if your group provides your own satellite-based communication, please update its contacts to include SCIR staff:**Jay Reti: 805-550-534; Lyndal Laughrin: 805-451-4038; Brian Guerrero: 805-448-2705**In an emergency scenario helicopter air transport will be utilized through SB Sheriff or US Coast Guard. Costs associated with emergency transport will be paid by the user group requiring its services.* |
| **Nearest Emergency Department (ED)** | *Community Memorial Hospital**147 N Brent St. Ventura, CA 93003805-652-5011* |
| **Cell Phone Coverage** | **Device carried?** [ ] yes [ ] no**Type:** **Coverage:** limited – Verizon and ATT**Nearest location with coverage:** SCIR Field Station, TNC Main Ranch, Christy Ranch all have WiFi enabled calling abilities. | **Satellite device (phone or locator)** | **Device carried?** [ ] yes [ ] no**Type:** **Coverage:** **Nearest location with coverage:**  |
| **Nearby Facilities** | *No facilities on island other than the field station* |
| **Participant Information** |
| **Field Team/ Participants** | *Primary Field Team Leader: Name, phone number Secondary Field Team Leader: Name, phone number*[ ]  *Field Team/Participant list is attached as training documentation* [ ]  *Other attachment: e.g. course roster* *Is anyone working alone?* [ ]  *Yes* [ ]  *No* *If yes, develop a communications plan with strict check-in procedures; carry a satellite communication device for remote locations without cell coverage.*  |
| **Physical Demands** | *List any physical demands required for this trip and training/certification provided. Diving, swimming, hiking, climbing, high altitudes, respirators, heights, confined or restricted spaces, etc. (consult with EH&S regarding appropriate training & documentation).*  |
| **Mental Demands** | *Will there be a high level of stress in the participant’s work? (e.g. work requiring constant alertness for long periods of time, such as a security monitor, or work with high levels of emotional stress such as working in an Emergency Room)*  |
| **First Aid Training** | *Cal/OSHA requires at least one trained person (with current certification) for work in remote locations. List team members trained in first aid and the type of training received.* *Location and description of group medical/first aid kit: Who is carrying it, where is it stored. Brief description of components.*  |
| **Immunizations or Medical Evaluation (if applicable)** | *List required immunizations/prophylaxis or required medical evaluation. (CDC provides recommendations based on location, wwwnc.cdc.gov/travel. For additional medical guidance and immunization services please contact UrgencyMED, (831) 704-3030 or your primary care physician. Allow at least six weeks prior to trip.*  |
| **Equipment and Activities** |
| **Fieldwork Transportation** | *The SCIR rents 4x4 vehicles for field work as long the driver has been certified by SCIR staff (see* [*SCIR Emergency Operations Plan Appendix C*](https://santacruz.nrs.ucsb.edu/sites/default/files/docs/SCIR%20Emergency%20Operations%20Plan%202022.pdf) *for details). Groups can also walk from the SCIR field station to their research site, if possible. With advance notice SCIR staff can drive groups to their field location for a fee (*[*see SCIR Rate and Recharge*](https://santacruz.nrs.ucsb.edu/user-fees)*).* |
| **Research Activities** | *Detail the goal of field operations. Collection of samples, observation of animals/environment, capture of animals, …*  |
| **Research Hazards** | *Mice on Santa Cruz Island are known to carry Hanta Virus; ticks present on Santa Cruz Island may carry Lyme Disease; sediments in some regions of California can transmit Valley Fever; poison oak is present on Santa Cruz Island. Please refer to the* [*SCIR Emergency Operations* Plan](https://santacruz.nrs.ucsb.edu/sites/default/files/docs/SCIR%20Emergency%20Operations%20Plan%202022.pdf) for details. |
| **Research Tools** | *Brief description of tools or equipment that will be used to access research site or during research activities. Indicate if any specific training is required before use. Sharps (knives, razors, needles), hand tools, power tools, heavy machinery, specialty equipment, firearms.*  |
| **Personal Protective Equipment** | **Required—***Boots, safety glasses, PFDs, hardhats, etc.* **Recommended—***Walking sticks, gloves, long pants, etc.*  |
| **Export Controls** | *Note that you must comply with all export control regulations. Please consult with Dr. Jay S. Reti (805-550-5341 or* *jayreti@ucsb.edu**) for any physical samples that your group requires, whether those samples remain on Santa Cruz Island or are intended for transport to a lab or facility. Please list all intended samples here.* |

**Additional Considerations -** **Contact UCSB EH&S at 805-893-7534 for guidance.**

[ ]  One or more of the following will be handled/transported: hazardous biological, chemical, or radioactive materials, pesticides, animals, or fireworks.

[ ]  Activities involve any special hazards: ATVs, tractors or other motorized vehicles; rigging, climbing, fall protection; shoring/trenching, digging/excavations, caves, other confined spaces or egress/access limitations; chainsaws, hand held power tools, mechanical blades, bits and pinch points, other hazardous energy (lock-out/block-out); explosives and fire arms; lasers, high pressure vacuum, portable welding/soldering devices, other hazardous equipment or tools?

[ ]  Modes of transportation other than regularly scheduled commercial carriers (e.g. chartering a boat, plane)?

[ ]  Reviewed the [University Auto Insurance Policy](https://www.ehs.ucsb.edu/riskmanagement/automobiles) for university vehicles, personal vehicles, and rental vehicles?

[ ]  Visas/permits, finances, import/export controls, transportation of specialized equipment, and data security have been considered? [UC Global Operations](http://ucgo.org/) provides some resources.

[ ]  Considered and discussed personal safety risks during free time, e.g. alcohol or drug use, leaving the group alone, situational awareness, or sexual harassment?

[ ]  Contacted the SCIR Director, Jay Reti, regarding transportation of any samples from the Santa Cruz Island Reserve.

|  |
| --- |
| **First Aid Reference – Signs & Symptoms of Heat Illness** |
| **Signs & Symptoms** | **Treatment** | **Response Action:**  |
| **HEAT EXHAUSTION*** Dizziness, headache
* Rapid heart rate
* Pale, cool, clammy or flushed skin
* Nausea and/or vomiting
* Fatigue, thirst, muscle cramps
 | 1. Stop all exertion.
2. Move to a cool shaded place.
3. Hydrate with cool water.
 | Heat exhaustion is the most common type of heat illness. Initiate treatment. If no improvement, call 911 and seek medical help. Do not return to work in the sun. Heat exhaustion can progress to heat stroke.  |
| **HEAT STROKE*** Disoriented, irritable, combative, unconscious
* Hallucinations, seizures, poor balance
* Rapid heart rate
* Hot, dry and red skin
* Fever, body temperature above 104 °F
 | 1. Move (gently) to a cooler spot in shade.
2. Loosen clothing and spray clothes and exposed skin with water and fan.
3. Cool by placing ice or cold packs along neck, chest, armpits and groin (Do not place ice directly on skin)
 | **Call 911 or seek medical help immediately.** **Heat stroke is a life-threatening medical emergency. A victim can die within minutes if not properly treated. Efforts to reduce body temperature must begin immediately!**  |

**Signature of Academic Supervisor/PI:**

**I acknowledge that this safety plan has been prepared in accordance with the requirements of the University of California, Santa Cruz “Field Research Safety” Policy and EH&S “Procedure for Field Research Safety.”**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Signature** | **Date** | **Phone Number** |
|  |  |  |  |

**Field Team/Participant Roster - Training Documentation**

**I verify that I have read this Field Safety Plan, understand its contents, and agree to comply with its requirements.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name/Phone Number** | **Affiliation** | **Signature** | **Date** | **Emergency Contact/Phone Number** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |