

Field Equipment Checklist



Tick (✓)	Item		
	Suitable maps of relevant shore segments, ideally on waterproof writing paper and other relevant maps (e.g. road or topographical maps for access) or nautical charts of area		
	Oiled Shoreline Assessment Forms, ideally printed on waterproof writing paper	1. GENERAL INFORMATION Insident: SO Septemble: 2. SURVEY TEAM OVER	
	Clipboard		
	Spare blank waterproof writing paper or waterproof field notebooks		
	Stationery - pencils, waterproof markers, rulers, paperclips		
	Compass		
	Small shovel or spade	70	
	Tape measure	0	
	Digital camera		
	Video camera and storage media (if required)		
	Batteries, charged battery packs (for GPS, cameras, etc.)		
	10 cm or 25 cm long photo scale with 1 cm increments	W 12.00	
	Portable Global Positioning System (GPS) device		
	Communication device (e.g. radio or mobile telephone)		
	The surveyors should also have appropriate clothing and personal protective equipment for the conditions, for example: - rain gear, sun screen, hat, rubber boots, non-skid soles - first aid kit - hand wipes/cleaner and rags for decontamination		
	Refreshments should be carried in remote locations		

Packing list for International Tropical Research Biology

and



Biol 320 January 2022

In general, most items are available for purchase in Costa Rica, but we suggest you bring the following items to better enjoy your stay at OTS field stations.

Check List #1: Clothing and Personal Items (field work items in list #2)

This check list has been compiled to assist people who visit the tropics for the first time, and guide more seasoned travelers to what may or may not be available locally.

<u>Essential</u>
Valid passport
Money, ATM card, and/or credit card
It is a good idea to have at least a little cash (US dollars or Costa Rican colones) on hand when you arrive. ATM machines are accessible near most sites, including the luggage claim section of the San José airport. Most ATMs accept foreign cards and issue colones, while fewer give US dollars. Traveler's checks are hard to change. Be sure to inform your credit card company of your travel.
Shirts
Long-sleeved field shirts are good for bugs; roll them up when too hot. Lightweight cotton or wicking synthetic field shirts are best. You will appreciate having quickdrying clothes. Consider a shirt that is appropriate for dinner in the city.
Pants
Although blue jeans are good for casual wear or the city, they do not make good field pants. Denim is hot, heavy, and very slow-drying. For the field, we recommend lightweight but sturdy pants. Although it is warm this will protect your legs. You will appreciate having quick-drying clothes and at least 2 pairs of field pants. We do not recommend rain pants. Some researchers prefer "zipoff" field pants.
Shorts
Underwear (cotton recommended)
Socks. If you bring rubber boots (see below), consider knee-high socks. Fleece jacket, sweater, sweatshirt, or a woolshirt
Although you will be in the tropics, it can get coldand the air conditioning in buildings can be frigid. If you plan to go to highland sites, low temperatures can even be near freezing in some places. Even in San Jose, it can get chilly at night and there are no heaters.
Rainwear
Bring a light breathable rain jacket (or poncho). Rain pants are not recommended.

<u>Footwear</u>
1 pair of breathable/quickdrying shoes or boots for fieldwork. It will be muddy, shoes may
not recover after the trip. You may bring rubber boots if you have them and prefer them. Fancy leather hiking boots are not recommended, because the soles can get caked with
mud
1 pair of sneakers to wear around camp as the field shoes dry
1 pair of sandals/flip flops to wear in the shower. Please be aware that for your own safety you will <u>not be allowed</u> to wear this type of footwear either in the forest or while moving from building to building at the field sites.
Towel
It's good to bring a thin towel for traveling, as some economy hotels and hostels do not provide towels. OTS stations do provide towels.
Medical supplies
The OTS station has some basics, and Melinda and Justin will have some basic first aid materials. Things you should consider bringing for yourself
-Your personal required prescription medications —in their original container
-Tylenol/Advil: your preferred mild pain reliever
-Imodium or any insurance for stomach upset, just in case
-Anti-itch cream in case of bug bites
-Anything else you anticipate you might want/need
Insect repellent
Chiggers can make your life miserable. Be sure your insect repellent choice is effective against these. Natural or 5-30% DEET types are recommended. 100% DEET melts plastic and is unnecessary.
Recommended
Hat
Could be a baseball hat, or anything that will provide shade from the strong sun, or keep your head covered in the forest if you prefer. Wide- brimmed hats recommended. Umbrella
SPF 15+ sunscreen
Tropical sun is dangerously intense. Although you can purchase sunscreen in Costa Rica, it will be more expensive.
Books, if you are a reader and think you will have timeToiletries
Travel size soaps/shampoo/toothpaste. This won't be glamourous, you shouldn't need much! Tampons can be purchased in-country, but women should bring a supply for emergencies.

	Optional
	Eyeglasses or contact lenses
	Bring extra solution for contacts as it is expensive and many types are unavailable in Costa Rica.
	Anaphylaxis kit (i.e. Epipen)
	If you are allergic to bee stings, bring an emergency anaphylaxis kit with epinephrine,
	such as an Anakit or Epipen, available by prescription. Please inform OTS staff of your allergy.
	Pocket knife (must go in checked baggage)
Chec	k List #2: Basic Field Equipment
	ential
	Flashlight and headlamp
	A good light is an absolute must. It is DARK walking back to your bunks. A headlamp can be better than a flashlight because your hands are free. In addition to a headlamp or strong and reliable handheld flashlight, bring a small backup flashlight to keep with you at all times. Wristwatch (inexpensive and water-resistant). This serves as a data collection device as well as an alarm clock.
	Daypack: (e.g., small backpack) for field use
	Those that come with a water bladder and hose can be useful.
	Personal journal
	We will provide Rite-in-the-Rain data collection books, but you must have a separate (non-waterproof) journal for cultural observation entries.
	Pencils/pens
	Sharpie pens and mechanical pencils work best with Rite-in-the-Rain notebooks. Bring a few. ***Don't bank on technology for data collection (ie taking notes in your phone). You're out of luck if the battery isn't up to snuff and the wet weather will be very hard on it. _Water bottle: 1-2 water bottles about 1-liter size
Rec	ommended
	_Binoculars if you have some. Justin and Melinda will bring a few pair to borrow if there is something
ama	azing to see.
	Spanish/English dictionary
	Batteries
	If you use rechargeable batteries, bring several sets, along with your own charger. They are expensive and sometimes unavailable in Costa Rica. If you have specialty (lithium) batteries, see the airline restrictions to make sure you comply.
	Camera
	SLR cameras will benefit from an extra lens cap and/or skylight filter as well as a waterproof case or other item to protect it from the rain. A waterproof/shockproof camera is a plus.
	"Ziploc" plastic bags
	Useful for electronics and everything, really. Garbage bags could also be useful for your boots. If you store binoculars or cameras inside zip-lock bags during the rain, do not close the bag tightly, for they will fog.

OptionalLaptop computer (electric supply in Costa Rica is 110W). You shouldn't need it for the data collection There is wireless available. You're welcome to bring it if you wishField guidesTravel games
One bag to check (\$25 fee at airport is your responsibility) and one carry on is recommended.

Electric toiletry items (hair dryers/razors) are allowed, but we encourage you to go as simple as possible.

Do NOT bring fresh fruit, drugs or alcoholic beverages.

Standard Field Equipment Checklist

	Field Note Book & Sharpie		
	Work Plan QAPP H&S Plan		
	First aid kit		
	Fire extinguisher		
	Field Tool Kit		
	Static Water Level Indicator (100' 150' 200' 300'); SWL Indicator for micro-well/probe? Y		
	Disposable bailer - 3' QNT 4' QNT 5' QNT		
	Stainless Steel bailer QNT		
	HydraSleeve QNT		
	Kabis Sampler		
	Sediment Sampler		
	Surface Water Sampler with pole		
	Koehler Bottom Sediment Sampler		
	Extension sampling pole		
	Poly tubing Feet		
	Check valves		
	Sampling twine		
	Decontamination Equipment (Alconox, DI, water sprayer, 5 gal buckets, paper towels)		
	Power washer		
	Potable water tank (50 gallon)		
	Purge tank (65 or 250 gallon)		
	Measuring wheel (Roller Wheel)		
	Concrete mix QNT		
	Bentonite Size QNT		
	Asphalt patch		
	Traffic Cones		
Field In	struments & Pumps		
ricia iii.	struments & rumps		
	PID Mini RAE		
	GPS Unit		
	Camera		
	Radiation Survey meter (Ludlum)		
	RAE PID/4 gas meter		
	Well transducer QNT		
	Inno-X XRF		
	YSI Multi-parameter meter		
	Mercury analyzer		
	Drager pump & tubes		
	Metal detector		
	Peristaltic pump		
	Submersible pump		
	Bladder pump		

	Hand held vacuum pump			
Hand to	ools			
	Trowel Shovel (round nose, spad Mattock Hand auger with extension Post hole auger Slam-bar Hammer Slam-bar Extensions Hoe Wheelbarrow Bolt cutters Crowbar/ pry bar Rake Weed trimmer Sledge hammer			
Well Co	nstruction			
	PVC Riser Casing Schedule PVC Riser Casing Schedule PVC Screen Schedule 40 PVC Screen Schedule 80 Filter pack sand Flush mount well vault Stick up well vault J Plug		Diameter Diameter Diameter Diameter	Feet Feet Feet
Specialt	y Equipment			
	Survey equipment Geophysical equipment Grout pump Vapor Intrusion equipment	nt		
Machin	ery Geoprobe Model		Da	te
	Rods - 4 ft QNT			
	Rods - 5 ft QNT			
	Dual Tube Sampler			
	MacroCore Soil Sampler QNT			
	MacroCore Shoes QNT			
	SP-16 Groundwater Samp		_	
	Drive Points (groundwate	r) QNT		

	Acetate liners (MacroCore and/or Dual Tube Essential Tooling for Geoprobe	e) Box: Type	Length	QNT
Equipment Functional/Good Condition Y N (Explain)				
Matrix/Parameters/Number of Each provided by PM Laboratory: Sample Input LIMS/Chain of Custody (EA), Cooler/Sample Containers picked up by EA				
Project	Manager Initial/Date	Environmental Associate Initia	al/Date	



Environmental Health and Safety

Field Safety Checklist

This form is designed to assist the Principal Investigator (PI), or Supervisor with assessing potential hazards of fieldwork. The completed checklist must be shared with all the members of the field team and a copy must be kept on file on campus. Multiple trips to the same location can be covered by a single checklist, as long as any changes in hazards and/or participants are documented. NAU's Regulatory Compliance groups are available to review these plans, and will conduct periodic reviews of departmental checklists.

Before you go:

- This checklist must be completed, with a copy maintained on campus, prior to departure for any fieldwork.
- Prepare first aid kit and any documentation needed (SOPs, Chemical Safety Data Sheets, etc)

Assemble and check safety provisions			
Check to assure all required immunizations are current for all team members			
Check to assure all emergency health care and insurance requirements have been met.			
Principal Investigator/Supervisor:			
Type of Field Work: Academic Field Trip Field Research Observation Other			
Dates of Travel: (List multiple dates if more than one trip is planned)			
Mode of Transportation:			
Location of Field Work:			
Country: Geographical Site:			
Nearest City: Distance from Site:			
Nearest Hospital/Distance (Attach map when applicable):			
Field Work: (Please include a brief description of the field work)			
No-Go Criteria: (Any circumstance that would require cancellation of field work such as lightning, or otherwise)			
Emergency Procedures: (Please include detailed plans for field location including evacuation and			
emergency communication; Include a separate sheet if necessary)			
University Contact (Name/ Phone):			
Local Field Contact (Name/ Phone):			
Special Medical Requirements: (bee sting kits, insulin, etc.)			
First Aid Training: (Please list any team members who are first aid trained and the type of training they have)			
Physical Demands: (Please list any physical demands required for this field work, e.g., Diving, Climbing, Temperature Extremes, High Altitude)			

Risk Assessment : Please list identified risks associated with the activity or the physical environment and the appropriate safety measures to be taken to reduce the risks (personal protective equipment, training, SOPs, etc); Include a separate sheet if necessary. Attach Safety Data Sheets (SDSs) and training documentation for any chemicals that will be used.			
Identified Risk	Safety Measures		
Temperature Extremes			
Work in Remote Locations			
Limited Communication			
Working at Heights (Ladders/Climbing/Rappelling)			
Chemical Hazards (Cleaners, Sample Preservatives, etc)			
Biological Hazards			
Radiation Hazards			
Wild Animals			
☐ Venomous Reptiles/Insects			
Endemic Diseases			
Zoonotic Diseases			
Firearms/Explosives			
Regional Hazards (Hunting season, civil unrest, crime)			
Heavy Machinery/Tools (Saws, Excavators, etc.)			
Open Water/River Crossings			
Other			
Animal Studies: A field study is defined as any study conducted on free-living wild animals that doesnot involve an invasive procedure or materially alter the behavior of the animal under study. In order to help you determine if your study fits this criteria, please answer the following questions.			
 Does your study greatly disturb the animals under study? Yes No (ex. testing predator vocalization, supplemental feeding, nest manipulation) 			
 Does your study involve an invasive procedure? Yes No (ex. blood sampling, tagging) 			
3. Does your study cause potential harm/injury to the animal? Yes No (ex. net and trap capture, bagging)			
If you answered YES to any of these questions, your study involves invasive procedures or materially alters the behavior of the animal under study. Please fill out the full IACUC protocol application form. https://nau.edu/nau-research/research-safety-and-compliance/animal-care/animal-use-forms/			
If you answered NO to all three of these questions and your study will only involve observation of free ranging animals, then an IACUC protocol is not required.			

Field Team Membership (Please list the names of all members of the field team, and the Field Team Leader.) <i>Include a separate sheet if necessary.</i>			
Name/Cell Phone Number (if applicable on site)			
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Adventure Travel Checklist

When packing for an international adventure trip, keep your most important documents with you at all times and your essentials in your carry-on. Remember, you want to go as light as possible, so try to choose items that will do double duty whenever possible.

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Travel Documents	Travel Gear	Packs & Luggage
□ Passport	☐ Water bottles and/or reservoir	☐ Travel pack or duffel
☐ Driver's license (or equivalent)	☐ Water disinfection system	☐ Daypack or waist pack
☐ Travel insurance	or tablets	☐ Packing organizers
☐ Entry visa (and other paperwork)	☐ Headlamp or flashlight	☐ Pack raincover
☐ Scanned copies of above (stored	☐ Binoculars	☐ RFID wallet or money belt
on phone and shared securely	☐ Trekking poles	☐ Dry bag (for wet clothes)
with contacts at home)	☐ Knife or multi-tool (in	☐ Resealable plastic bags
☐ Photocopy of passport (carried	checked luggage)	☐ Luggage locks (TSA approved)
with you in separate location	☐ Book/reading material	☐ Luggage tags (2 per bag)
from the original)	☐ Field guides; historical	-
☐ Currency valid at destination	guidebooks	-
☐ Trip itinerary	☐ Language phrase book	
☐ Reservation confirmations	☐ Journal or sketchbook with	Personal Items
(travel, hotel, car, etc.)	pens/pencils	
☐ International health card with	☐ Quick-dry travel towel	☐ Cellphone (with
immunizations	☐ Sleep sheet (or sleeping	weatherproof case)
☐ List of key phone numbers	bag liner)	☐ Charging cables and plugs
(stored separately from	☐ Travel pillow	☐ Headphones
your phone)		☐ Electrical adapters/converter
		☐ Portable power
	o	☐ Camera or action camera
	o	☐ Camera bags
	o	☐ Extra batteries
	o	o
		П

Clothing/Footwear		Other Items	
☐ Moisture-wicking underwear	☐ Bandana or neck gaiter		
☐ Moisture-wicking T-shirts	☐ Socks (synthetic or wool)	-	
☐ Quick-drying pants/shorts	☐ Hiking footwear, sandals and	O	
☐ Long-sleeve shirts	other shoes		
☐ Lightweight fleece or jacket	For cold weather add:	-	
☐ Rainwear (jacket and pants)	☐ Warm insulated jacket or vest		
☐ Sun-shielding cap or hat	☐ Long underwear	o	
☐ Sleepwear	☐ Gloves or mittens	o	
☐ Swimsuit	☐ Warm hat		
☐ Clothing for casual or		o	
evening use		-	
		O	
Health & Hygiene		o	
Health & Hygiene		o	
☐ Hand sanitizer	☐ Sleep aids (eyeshades, earplugs)		
☐ Alcohol or antiseptic wipes	☐ Travel clothesline and packets of	o	
☐ Skin lotion	detergent	o	
☐ Spare eyeglasses or	☐ Sun and bug protection		
contact lenses	☐ Sunglasses or glacier glasses	o	
☐ First-aid kit	(+ retainer leash)		
☐ Prescription medication	☐ Sunscreen		
☐ Toiletry kit	☐ SPF-rated lip balm	o	

☐ Insect repellent

☐ Toothbrush

☐ Cosmetics

☐ Tissue or toilet paper

☐ Brush and/or comb

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Field Camp: Equipment checklist

Required	Recommended
Sturdy tent	Extra blanket/light sleeping bag
Ground cloth	Extra tent stakes
Air mattress/Therma-rest	Tent patch kit
Sleeping bag and liner	Camp chair
Travel pillows	Head lamp
Rain gear (jacket, etc.)	Pocket knife
Warm hat	Trowel for personal use
Sun hat	Chisel
Sun glasses	Binoculars
Working gloves	Hammer holster
Long field pants*	Field belt pouches
Shorts	Tennis shoes/sandals
Long sleeve shirts	Towels
Sturdy hiking boots	Casual clothes (e.g. sweats, jeans, etc.)
Wool hiking socks	Sewing kit
Sturdy belt	Ziploc bags/trash bags
Wrist watch	Tissues
Daypack (ideally with rain cover)	Baby wipes
Rock hammer	Toilet paper (for in-field use)
Hand lens	Cold medications
Field notebook	Pain relievers
Colored pencils	Coffee (if you're picky)

^{*}Pants you wouldn't mind getting destroyed. Jeans are \underline{not} recommended for use in the field.

Required	Recommended
Sharpies	Insulated mug (for coffee/tea)
Ballpoint pens	Travel clock/alarm
Pencils**	External battery for cell phone
Metric rulers	Cell phone + charger (+ car adapter)
Erasers	Extra batteries for personal use
Flashlight	Radio (there will be reception issues)
Chapstick	Board games
Water bottles/Camelbak***	Compact personal instruments
Lunch box/container	Books/magazines
Personal first aid kit	Bug repellent
Tetanus shot	Solar shower bag
Sunscreen	Small sledgehammer (<5lbs)
Duct tape	Petroleum jelly/personal lotion
	Shower caddy/bag

^{**}If not mechanical, bring a sharpener.

^{***3} liters minimum; more is better.

Provided by SJSU	
General	Drafting supplies
Acid (3N HCl) & acid bottles	Scales/protectors
Measuring tapes (100 ft, 15 m, and 30 m)	Masking tape
Stereonets (mounted on wooden boards)	Thumb tacks
Brunton Compass	Scissors
Emergency First Aid kit	Pens
Relevant literature: regional field reports, mineralogical, petrological, structural, sedimentological, and paleontological references	Rubber bands
Camping supplies	Mylar
Coleman lanterns (for office/kitchen only)	Tracing paper
Bug repellent (for camp use only; for infield use, please bring your own)	Cross sectional paper
Emergency space blanket	Topographic maps
Plates, cups, knives, forks, spoons, cooking pans	
Complete field kitchen with stoves, oven, and refrigerator	
Emergency tool kit	
Shovel, axe	

FIELD GEOLOGY EQUIPMENT CHECKLIST

Essential Field Gear

Seriuai Fielu Geai
Field text book as assigned (see p. 2)
10x hand lens (best: Hastings Triplet)
Rock hammer (~22 oz.)
Two (2) field notebooks (see p. 2)
Two technical pens (widths: 0.25mm, 0.5mm)
Two-mechanical pencils (0.5mm)
Replacement pencil lead (0.5mm)
Stick-style eraser
Two Plastic ruler-protractors (bookstore)
Sharpee/permanent marker
Set of colored pencils (at least 12)
Safety pin (for marking maps/photos)
Pocket knife (2-4" blade)
Small first-aid kit
Sturdy field boots (see note above)
Two liter canteens or water bottles
Waterproof-breathable parka
Sun hat
Sun glasses
Sun screen (SPF 30 or greater)
Wrist/pocket watch/phone
Field back-pack
Field belt – w/non-magnetic buckle (to carry compass/pouch/etc.)

Recommended Field Gear

Wind/rain pants
Large waterproof garbage bag for pack
Leather work gloves
Hammer holder for belt
Small binoculars
Camera (or phone)
Photo scale
Plastic box/organizer for drafting supplies
Field pouch (for notebook/pencils)

^{*} Customized Plateau Designs field pouches with the MSU Field Camp logo will be available for purchase at the beginning of field camp.

Expendables to Bring

Quality drafting vellum 8.5"x11" (50 sheets)

Essential Personal Gear

Duffel/backpack
Field clothing
Underclothing & work socks
Cold-weather clothing layers (sweaters etc.)
Warm hat
Warm winter coat
Warm gloves or mittens
Personal toilet kit
Prescription medicines, contact lenses, personal health needs
Sleeping bag
Tent (share w/1-2 friends if possible)
Towel/washcloth

Recommended Personal Gear

Camp/town clothing	
Camp shoes or sandals	
Reading book, stationary, stamps	
Travel alarm clock/phone	
D-cell headlamp/flashlight & batteries	
Laundry bag & detergent	
Camp chair or stool	
Musical instruments (compact)	
Compact toys (frisbee, ball, fly rod, slackl	ine)
Radio/iPod/phone/personal stereo	

Equipment Supplied by MSU

	These items will be signed out to you and must be returned in good condition.		
	Brunton or Silva compass		
	GPS or altimeter (as needed)		
	Tablet computer/iPad (as needed)		
	Acid dropper bottle		
7	These items are yours to keep		
	Field Course Manual – spiral bound		
	Plexiglas map board		

Expendables Supplied by MSU

Base maps, air photos, etc.
Stereonet/equal area template/thumbtack
Cross-section paper
10% HCl

^{*}DO NOT bring large coolers, camp stoves or cooking gear. Meals and all cooking gear and dishes are provided. You may bring a <u>small</u> personal cooler and/or <u>small</u> backpacking stove.

Textbooks

- 1. Geological Field Techniques (2012) Coe, Angela, Wiley-Blackwell, 336 pages.
 - MSU Bookstore: http://www.msubookstore.org/home.aspx
 - Wiley-Blackwell (publisher): http://www.wiley.com/WileyCDA/WileyTitle/productCd-1118445082.html
 - Amazon: http://www.amazon.com/Geological-Field-Techniques-Angela-Coe/dp/1444330624
- 2. MSU Geology Field Manual (distributed at start of field course no charge)

Equipment Recommendations

- Field Notebooks. Need two (2) copies, at least 100 pages each. Should have ruled pages on right for notes and cross-section gridded pages on left for sketches. Good choices include: Rite-in-the-Rain Geological Field Book (No. 540F) special water-resistant paper, includes geologic reference material in back, expensive. Sokkia Engineer's Field Book (N. 8152-30) trig, math and slope reference in back. Forestry Suppliers Transit Field Book (# 49361) Good value.
- **Hand lenses (10x).** Hastings Triplet provides has best optics, but Coddington-type or doublet lenses are also great choices. Look for quality metal construction for durability.
- **Drafting pencils & pens.** High-quality mechanical pencils and drafting pens are the best choice to draw consistent, precise lines. Re-fillable *Rapidograph*-type pens (e.g. *Rotring, Koh-i-Noor*) make the best lines, but are expensive and difficult to maintain. Good felt-tip drafting pens by *Micron, Pentel*, and *Prismacolor* are good options. I like pencils with large erasers and a thick barrel like *Pentel Twist-Erase*, but other prefer thin pencils with tiny erasers... whatever works for you.
- **Colored pencils.** *Prismacolor* and *Verithin* pencils are the best for precise and consistent color. *Verithin* have hard lead and are best for use in the field. Prismacolor have softer lead that is better for coloring large areas and 'office' use. Get both if you can afford it. *Verithin* if you want to save.
- **Drafting Vellum.** Get good quality <u>translucent</u> drafting vellum with 100% cotton fiber like *Clearprint Design Vellum.* Cheap 'onion-skin' tracing paper is OK for some uses, but is <u>unacceptable</u> for stereonets and final work of any kind.
- Field Pouches. Highly recommended to keep your notebook and pens/pencils close at hand. Lightweight nylon pouches (e.g. Plateau Designs) are the most versatile, although some prefer leather cases (e.g. Gfeller Casemakers). We will have the outstanding Plateau Designs field pouches with the MSU field camp logo for sale at the start of field camp.

Equipment Suppliers

Bozeman

- MSU Bookstore: Text, drafting equipment & supplies, field notebooks (Rite in the Rain), etc. http://www.msubookstore.org/home.aspx.
- Selby's Engineering Supplies: Wide selection of drafting supplies, field equipment, field notebooks, GPS receivers, topo maps etc. 525 Professional Drive, 587-9597. http://www.selbys.com/.
- REI: Outdoor gear. 2220 Tschache Street (N. 19th), 587-1938. http://www.rei.com/.
- Sportsman's Warehouse: 2220 Tschache Street (N. 19th). http://www.sportsmanswarehouse.com/.
- Northern Lights: Outdoor gear. 1716 W. Babcock, 586-7544. http://northernlightstrading.com/bzn/.
- **Bob Ward's**: Outdoor gear. 3011 max Avenue (N. 19th Target shopping center). 586-4381.

Online

- Miners Supply: Good variety of geology-specific gear http://www.minerox.com/.
- Forestry Suppliers: Field gear, field notebooks, drafting supplies, compasses, GPS receivers, etc. http://www.forestry-suppliers.com/.
- Ben Meadows: Field gear field notebooks, drafting supplies, compasses http://www.benmeadows.com/.
- Dick Blick: Drafting supplies (good prices) http://www.dickblick.com/.
- Adventure Medical Kits: First aid kits & supplies http://www.adventuremedicalkits.com/.

Fieldwork Checklist

The following is a list of items that may be useful for fieldwork. I would be grateful for any comments or improvements of the list. Please let me know if you don't want me to mention you by name in the Acknowledgements section.

EQUIPMENT

Equipment Specifics

Item	Comments	Extras
Laptop Computer	Get a light computer. You may have to take it everywhere with you, both because you need to work on it, and because it is safer with you. Things to keep in mind when selecting a computer: (1) how much memory does it have? (2) can you burn CDs/DVDs (for backup)? (3) will it be compatible with the software you are planning to use? (4) will your funding agency pay for it? Some funding agencies explicitly state that they will not pay for a laptop. ³	 extras extra battery / large battery power cable cables to connect other equipment power adapter plug that will fit the outlet in the country you are going carrying case (especially sturdy, extra padding, etc.) international warranty (is there a service center near where you are going?)
Digital Video Camera	Again, this should be as light as possible. However, there will probably be tradeoffs between how light it is and what quality the recordings will be. Make sure that it records to the format you want, or if not, that you have the capabilities of converting the data in the field. Things to keep in mind: (1) how much memory does it have? (2) how long can it run on its battery at the setting you need? (3) what kinds of batteries does it take? Can you get them in the field, or can you bring rechargeable ones? (4) how do you connect it to your computer? (5) will you be recording at night? (6) are you satisfied with the quality of the audio? Try to get one with a microphone input.	 memory card/stick power cable? Charging station? batteries? connection to computer? warranty carrying case

Item	Comments	Extras
Digital Still	Things to keep in mind:	> memory card/stick
Camera	 (1) how much memory does it have? (2) at what resolution can you shoot pictures? Will they be publishable?⁸ (3) how long can it run on its battery at the setting you need? (4) what kinds of batteries does it take? Can you get them in the field, or can you bring rechargeable ones? (5) how do you connect it to your computer? (6) how close can you get to something to take pictures? (if you are planning to take pictures of local flora and fauna, this may be relevant.) 	 cables to connect to computer warranty carrying case batteries
Voice Recorder	You may want to get one that records at 44 KHz. Lower settings may work if you are only concerned with vocabulary, syntax, etc. You only need 22 KHz for phonetic analysis ⁴ , but archives require 44KHz. Funding agencies will most likely require that you be able to record at 44KHz. You may want to consider a mini disk recorder. ¹ Things to keep in mind: (1) how much memory does it have? (2) how long can it run on its battery at the setting you need? (3) what kinds of batteries does it take? Can you get them in the field, or can you bring rechargeable ones? (4) how do you connect it to your computer? (5) What format does it record in? Can you record in a non-proprietary format? ⁸	 memory card/stick warranty carrying case cables to connect to computer batteries
Tape Recorder ^{1,3}	For backup. Also, you can usually find tape equipment anywhere in the world, and this is a good format to leave at the field site.	>

Item	Comments	Extras
Microphones	Things to keep in mind: (1) your sound will only be as good as your microphone (2) do you need different types of microphones for different types of data collection, e.g. headmounted, clip-on, etc.? (3) does your microphone need batteries? If you can plug it in to an electronic outlet, do you have the cable you need? (4) does it need to be grounded? (5) are the plugs of your microphones the same ones your recorder takes? ⁵ (6) you may be able to plug your microphone into your recorder, but that does not mean that the sound quality you get is acceptable. Check this before going into the field.	batteriescables
Surge Protector	You may need this to protect your equipment if the area you are going to has frequent power surges.	>
Printer ³	Heavy and may take up a lot of space, but can be extremely useful. You can make printouts for informants or yourself to check. Also, you can leave copies at the field site.	connecting cablecartridgespaper
Solar Panel ¹	Is there a reliable energy source where you are going? Will you have regular access to it? If not, you may consider a solar panel. Things to keep in mind: (1) weight. Will you have to carry it everywhere? (2) Voltage and Amperage: is it sufficient for everything you need to charge, especially your computer? (3) can the solar panel be connected to everything you need to charge? (4) how sturdy is it? Do you expect that it will get kicked around a lot?	 battery to store 'extra energy'. You may also need this if the solar panel does not output enough amperage connecting cables
Thumbdrive ⁶	This is great for backup and easy to carry.	>
Battery Recharger	There are some that take AA as well as AAA, which are usually the ones you need. Make sure to double-check your equipment	 rechargeable batteries adapter and plug for the country you are going to

General Equipment Notes

Summary of things to check for all your equipment.

Item	Comments
Weight	How much does the item weigh, including all extras (cables, storage media, battery or batteries, protective cases, etc.)?
Storage Media	 Do you have the proper storage media for your equipment (memory card, memory stick, etc.)? How much data fits on the storage medium? Do you need to get one with more space? Do you need more than one? Do you want to be able to plug the storage medium directly into your computer, or is it OK if you have to connect the equipment to the computer? Can you get storage media locally?
Connectivity	 Can all your equipment be connected with any other equipment as planned? Do you have the proper cables? Does your equipment have the proper ports? Maybe you need an adapter of some sort? Depending on which method of transfer you use, how lossy is the transfer? How fast is the transfer?
Battery Endurance / Power	 How long can your equipment run on a normal setting / high setting without changing the battery? (This may depend on the temperature.) Can you get a battery with more endurance? Does the equipment have to be plugged in to perform certain functions? Do you have the proper plugs for the electric outlets? Do you have an adapter? Do you need rechargeable batteries (e.g. for a digital still camera)? Can your battery recharger be connected to your adapter? Take two sets of rechargeable batteries for everything.⁸ Can you get batteries locally? For the converter/adapter, make sure that: all your equipment that needs to be plugged in can be connected to your converter/adapter¹ your adapter has plugs for any outlet you might encounter (some countries have more than one type of outlet)
Climate / Environment	 If you are going to a place with an extreme climate, you may want to check the following: can you equipment be exposed to extreme (low and high) temperatures? what about extreme fluctuations in temperature? do you have any way to protect your equipment from extreme temperatures (e.g. keeping all batteries in inside pockets close to your body) what about extreme humidity or dryness/static? how much being kicked around can your equipment put up with? do you have a way to protect your equipment from dust/sand?

TRAVEL

Item	Comments	Extras
Tickets to your destination	Things to keep in mind: (1) what will be the price of the tickets at the time of year you are planning to travel? (2) can you get directly where you need to go, or will you need to buy additional tickets once you get into the country? (3) will you be able to get there by plane, or will you need to take other types of transportation? Train, car, boat, horse, camel, (4) long trips: if you are staying over 8 months, a return ticket may not be available and there may be a surcharge for an open return ticket. (5) In some cases a return ticket may be required for the visa. Things to keep in mind: (a) what will be the price of the tickets once you get into the country? (b) the time to the time to get there by plane, or will you need to take other types of transportation? Train, car, boat, horse, camel, (4) long trips: if you are staying over 8 months, a return ticket may not be available and there may be a surcharge for an open return ticket. The time to the time to get there by plane, or will you need to take other types of transportation? Train, car, boat, horse, camel, (5) In some cases a return ticket may be required for the visa.	
Daily Transportation	How will you get around once you get to your destination?	
Insurance	Things to keep in mind: (1) does your insurance cover you while you travel? (2) is medical evacuation covered? Up to what amount? (3) is your equipment and other luggage insured? (4) keep a number of copies of your insurance information (contact number, insurances, etc.) with you²	

PERSONAL ITEMS

T DINDOI WILD II	Livi g	
Item	Comments	Extras
Tent	Things to keep in mind: (1) weather (2) size	
Sleeping Bag	Things to keep in mind: (1) weather	

Item	Comments	Extras
Water Purification	Depending where you go, you may need a water filter. 3 Other options: - water purification tablets (don't taste very good, and may take several hours to work, but more portable) - consider metallic iodine. - electrical units that plugs into a wall socket Things to keep in mind: (1) what do you want to filter out? Giardia? Cryptosporidium? other bacteria? viruses? particles? (2) do you want one that comes with a pump? (3) do you need/want hoses? (4) how long will it take to filter your water? (5) how much water can you filter with one cartridge? (6) do you need a replacement filter/cartridge, or can your filter be cleaned in the field?	> extra filters
Mosquito Net	Check whether you need one. Things to keep in mind: (1) can you get one that is specially treated?	 mosquito spray¹ mosquito coil¹ (can you get these locally?)
Mosquito Cream / Spray ²	You may want to bring something reliable with you. Things to keep in mind: (1) sprays may be confiscated at the airport	>
First Aid Supplies	Check what specials you may need locally.	 band aides bandages surgical gloves disinfectant antibiotic cream prescription medication such as antibiotics, diarrhea medication, etc any prescription medication you need regularly include copy of any eyewear prescription
Medical Bracelet ²	If you have any medical allergies, wear a medical bracelet or dog tag. Things to keep in mind: (1) can you get it translated into the local language?	>

Item	Comments	Extras
Inoculations	Check with your doctor what you will need in the region you are going to. Make sure that inoculations you got in the past are up do date. You may want to start this at least 6 months before you leave, since some inoculations cannot be taken together at the same time, and for some inoculations you may need a series of shots.	
Things to do ¹	You may not be able to work all the time. Take something to do during the time you can't work: knitting, fishing kit, books, music. You may not be able to get it locally.	

OTHERS

Item	Comments	Extras
CDs/DVDs	Things to keep in mind: (1) can you get them where you are going? (2) do you want cases (weigh more, but may provide more protection)	> cases
Flashlight ¹	To read in bed at night and go to the bathroom, etc. Things to keep in mind: (1) head-mounted it very convenient (but in any case try to get something that will leave your hands free) (2) power: batteries, or powered by movement	> batteries?
Desiccation bags ¹	To dry out you electronic equipment. Especially if you are going to a humid place, e.g. rain forest.	
Consultant Payments	Things to keep in mind: (1) can you find out what would be a reasonable daily/hourly fee in the country you are going to? (2) will you also need to pay a translator? (3) if cash payments are not culturally acceptable, what are acceptable gifts?	
Rent	Where are you going to live? Find out how much you can be expected to pay per day/month.	
Food	Again, check with a person who knows the area.	

Item	Comments	Extras
Luggage	What kind of luggage will you take? It will probably depend on how 'portable' you need to be. Consider backpacks, duffel bags, suitcases (?). Things to keep in mind: (1) water proofing (2) discouraging tampering/theft	
Money	Give some thought to how you are going to carry/get money. Things to keep in mind: (1) can you convert travelers checks where you are going? ⁴ (2) which currency/currencies will be the most convenient? US\$? Euro? Something else? (3) you may not be able to use you credit/debit/bank card where you are going. There may be no ATMS, they may not accept your card, or the fee may be prohibitive. Check before you go. (4) is there any way you can open a bank account locally? Can you transfer/wire money from your home account to your 'abroad account'? How much will your bank charge? How much will the local bank charge? (5) you may want to invest in a money belt	
Mailing / Internet Access	How are you planning to do back-ups? Will you be able to mail back hard copies? Are you going to email backups? Things to keep in mind: (1) how fast is the internet connection where you are going? Will you be able to email large attachments? (2) how much does it cost to use the internet connection? (3) how much will it cost you to mail out regular back-ups by snail mail?	
Incidentals	 I have found the following items useful: duct tape twine/string sewing kit (thread, sewing needles, small scissors, piece of fabric for patches) scotch tape re-sealable plastic bags in various sizes little plastic bottles with screw-on lid (for shampoo, soap, disinfectant, etc.) 	

Item	Comments	Extras
Gifts	What is an appropriate gift will depend on a number of different factors. Here are some suggestions: > fabric¹ > clothes¹ > food¹ > flashlights¹	Extras
	 toys for children¹ hair ornaments¹ pictures (of the area/people)¹ small keepsakes from your home country/town 	

PAPERWORK

Item	Comments
Passport	➤ In most cases, you will need a passport that is valid for at least another year.
Visa	 Where do you apply for your visa? Do you need to apply in person, or can your travel agency take care of it? How much will it cost? How long will it take? What kind of visa do you need (student, tourist, professional; 1 month, 3 months, 1 year; single entry or multiple entry)? Can you renew/extend your visa locally? How much will it cost and how long does it take? Which forms do you need to fill out? Where can you get them? Do you need specially formatted pictures (size, angle, background color, etc.)?
Letters / Proofs	You may need the following for your grant application and/or your visa application, or to work efficiently in the field: > letter of introduction > letter of recommendation > proof of employment > proof of enrollment (school/university)
All papers	 leave copies of everything with a person you trust at home take one set of copies with you

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⁵ Laura Robinson

⁶ Piet Lincoln

⁷ Anonymous 8 Dr. Joe Grimes

[version 7, 6/28/07]

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Field Equipment Checklist

Essen	tials		Saline nasal spray
	Identification		Ibuprofen
	Drivers license		Eyedrops
	Plane ticket		Antihistamine
	Reservations info		
	Phone numbers	Camp	ing - equipment
	Credit cards		Tent
	Sunglasses		Tent repair kit
	Swiss army knife		Ground cover
			Stakes
Clothe	9 S		Bungee cord
	6-7 T-shirts		Sleeping bag
	3-4 long sleeved shirts/ turtlenecks		Mattress/thermarest
	2-3 pair Old blue jeans or light-		Blanket and/or sheet
	weight pants		Pillow
	2-3 pair shorts		Sunshower
	Leggings		Tent lamp
	Clean airplane/travel clothes, in		
	plastic bag	Camp	ing – food/water
	Underwear		10 gal water containers
	Socks		Collapsible water containers
	Hats		Water bottles/canteens
	Bandana		Canteen tops
	Warm jacket/polar fleece		Silverware
	Rain jacket		Bowls
	Hiking shoes		Coffee pot
	Cheap in-camp shoes		
	Sneakers	Camp	ing – communication/logistics
			Altimeter (2)
Toilet			GPS (4)
	Sun block with SPF 15 or above		GPS cable
	Towel		Walkie talkies (4)
	Washcloth		Maps
	Soap & Shampoo		Compass
	Vaseline		
	Toothbrush & Toothpaste	Misce	llaneous
	Hairbrush		Magnifying lens
	Razor		Headlamp
	Nail clippers		Batteries
			Flashlight
First a			Field notebook
	First aid kit		Books
	Bandaids		Camera and film
	Hydrogen peroxide		Sewing kit, safety pins
	Bug repellant, after bite		Sharpie marking pens
	Sam splints		Calculator
	Ace bandage		Duct tape
	Instant cold compresses		

Field Equipment Checklist

Collec	ting equipment		Knee pads
	Ice picks		Gloves
	Baggies, very small, med., Ig		Clothes pins
	Brushes - 1", 1-1/2", 2 1/2"		Dust masks
	Film canisters		Consolidant bottles
	Loupes		Empty glue bottles
	·		Empty dish soap bottles (for
	Chisel end rock hammer`		consolidant)
	Pointed end rock hammer (2)		Cheesecloth
	18" chisels (2)		Rubber bands
	12" chisels		Sharpening stone
	6" chisels		Spatulas
	Small pry bars (2)		Funnel
	Paint scrapers		Gauze
	Trowel		Rubber gloves
	Hoe pick handle		Pipettes
	Hoe-pick head		Tongue depressors
	Marsh pick handle		Small brushes
	Marsh pick head		Brushes - ½", 1", 1-½", 2-½"
	Sm folding shovel		Wisk broom
			Butvar B76
	Plaster		Vinac B15
	Burlap		Paraloid B72
	Plaster bandages		
	Plaster bowls	Tools	
		Tools	Philips screwdriver
	3 lb. Mallet		Philips screwdriver Regular screwdriver
_			· · · · · · · · · · · · · · · · · · ·
	3 lb. Mallet 5 lb. Mallet 50 ft tape measure		Regular screwdriver
	3 lb. Mallet 5 lb. Mallet		Regular screwdriver Wrench vise grips
	3 lb. Mallet 5 lb. Mallet 50 ft tape measure Flags		Regular screwdriver Wrench vise grips Wire
	3 lb. Mallet 5 lb. Mallet 50 ft tape measure Flags Saw		Regular screwdriver Wrench vise grips Wire Needle nose pliers
	3 lb. Mallet 5 lb. Mallet 50 ft tape measure Flags		Regular screwdriver Wrench vise grips Wire Needle nose pliers File
	3 lb. Mallet 5 lb. Mallet 50 ft tape measure Flags Saw Sieve box Stretcher		Regular screwdriver Wrench vise grips Wire Needle nose pliers File Scissors
	3 lb. Mallet 5 lb. Mallet 50 ft tape measure Flags Saw Sieve box Stretcher Tarp		Regular screwdriver Wrench vise grips Wire Needle nose pliers File Scissors Sharp knife X-acto, round blades, extra blades
	3 lb. Mallet 5 lb. Mallet 50 ft tape measure Flags Saw Sieve box Stretcher		Regular screwdriver Wrench vise grips Wire Needle nose pliers File Scissors Sharp knife X-acto, round blades, extra blades
	3 lb. Mallet 5 lb. Mallet 50 ft tape measure Flags Saw Sieve box Stretcher Tarp Strainer		Regular screwdriver Wrench vise grips Wire Needle nose pliers File Scissors Sharp knife X-acto, round blades, extra blades Straps/bungees
Prepa	3 lb. Mallet 5 lb. Mallet 50 ft tape measure Flags Saw Sieve box Stretcher Tarp Strainer ration equipment	Miscel	Regular screwdriver Wrench vise grips Wire Needle nose pliers File Scissors Sharp knife X-acto, round blades, extra blades Ilaneous Straps/bungees Field notebooks
Prepa	3 lb. Mallet 5 lb. Mallet 50 ft tape measure Flags Saw Sieve box Stretcher Tarp Strainer ration equipment Baggies, very small, med., large	Miscel	Regular screwdriver Wrench vise grips Wire Needle nose pliers File Scissors Sharp knife X-acto, round blades, extra blades Ilaneous Straps/bungees Field notebooks Pens, pencils, sharpies
Prepa	3 lb. Mallet 5 lb. Mallet 50 ft tape measure Flags Saw Sieve box Stretcher Tarp Strainer ration equipment Baggies, very small, med., large Mallet	Miscel	Regular screwdriver Wrench vise grips Wire Needle nose pliers File Scissors Sharp knife X-acto, round blades, extra blades Ilaneous Straps/bungees Field notebooks Pens, pencils, sharpies Garbage bags
Prepa	3 lb. Mallet 5 lb. Mallet 50 ft tape measure Flags Saw Sieve box Stretcher Tarp Strainer ration equipment Baggies, very small, med., large Mallet Small shovel	Miscel	Regular screwdriver Wrench vise grips Wire Needle nose pliers File Scissors Sharp knife X-acto, round blades, extra blades Ilaneous Straps/bungees Field notebooks Pens, pencils, sharpies Garbage bags Twine
Prepa	3 lb. Mallet 5 lb. Mallet 50 ft tape measure Flags Saw Sieve box Stretcher Tarp Strainer ration equipment Baggies, very small, med., large Mallet Small shovel Paint scraper	Miscel	Regular screwdriver Wrench vise grips Wire Needle nose pliers File Scissors Sharp knife X-acto, round blades, extra blades Ilaneous Straps/bungees Field notebooks Pens, pencils, sharpies Garbage bags Twine Work gloves (1pr)
Prepa	3 lb. Mallet 5 lb. Mallet 50 ft tape measure Flags Saw Sieve box Stretcher Tarp Strainer ration equipment Baggies, very small, med., large Mallet Small shovel Paint scraper X-acto, round blades, extra blades	Miscel	Regular screwdriver Wrench vise grips Wire Needle nose pliers File Scissors Sharp knife X-acto, round blades, extra blades llaneous Straps/bungees Field notebooks Pens, pencils, sharpies Garbage bags Twine Work gloves (1pr) North arrows (2)
Prepa	3 lb. Mallet 5 lb. Mallet 50 ft tape measure Flags Saw Sieve box Stretcher Tarp Strainer ration equipment Baggies, very small, med., large Mallet Small shovel Paint scraper X-acto, round blades, extra blades Small chisels, var. Sizes	Miscel	Regular screwdriver Wrench vise grips Wire Needle nose pliers File Scissors Sharp knife X-acto, round blades, extra blades Ilaneous Straps/bungees Field notebooks Pens, pencils, sharpies Garbage bags Twine Work gloves (1pr) North arrows (2) Notebooks
Prepa	3 lb. Mallet 5 lb. Mallet 50 ft tape measure Flags Saw Sieve box Stretcher Tarp Strainer ration equipment Baggies, very small, med., large Mallet Small shovel Paint scraper X-acto, round blades, extra blades Small chisels, var. Sizes Points	Miscel	Regular screwdriver Wrench vise grips Wire Needle nose pliers File Scissors Sharp knife X-acto, round blades, extra blades Ilaneous Straps/bungees Field notebooks Pens, pencils, sharpies Garbage bags Twine Work gloves (1pr) North arrows (2) Notebooks Toilet paper
Prepa	3 lb. Mallet 5 lb. Mallet 50 ft tape measure Flags Saw Sieve box Stretcher Tarp Strainer ration equipment Baggies, very small, med., large Mallet Small shovel Paint scraper X-acto, round blades, extra blades Small chisels, var. Sizes Points Empty tubes	Miscel	Regular screwdriver Wrench vise grips Wire Needle nose pliers File Scissors Sharp knife X-acto, round blades, extra blades Ilaneous Straps/bungees Field notebooks Pens, pencils, sharpies Garbage bags Twine Work gloves (1pr) North arrows (2) Notebooks Toilet paper Dust masks
Prepa	3 lb. Mallet 5 lb. Mallet 50 ft tape measure Flags Saw Sieve box Stretcher Tarp Strainer ration equipment Baggies, very small, med., large Mallet Small shovel Paint scraper X-acto, round blades, extra blades Small chisels, var. Sizes Points	Miscel	Regular screwdriver Wrench vise grips Wire Needle nose pliers File Scissors Sharp knife X-acto, round blades, extra blades Ilaneous Straps/bungees Field notebooks Pens, pencils, sharpies Garbage bags Twine Work gloves (1pr) North arrows (2) Notebooks Toilet paper

Packing Checklist



<u>stri.si.edu/plan-your-visit/packing-checklist</u>

July 19, 2017

This helpful checklist covers a variety of general things that are useful for visitors to STRI. This may not be a comprehensive list for everyone. It may be helpful to ask your advisor/PI if they have any other recommendations. You can also ask them to put you in contact with their other interns, fellows or visiting scientists who may be able to offer you helpful advice.

General

- Laptop computer and charger
- Camera, charger or batteries, memory cards
- Waterproof sunscreen (min SPF 15 or stronger)
- Insect repellent (Deet is best, Permethrin is good for pre-treating clothes)
- Sunglasses
- · First aid kit
- Reusable water bottles (drinking water provided in coolers at each STRI location)
- Backpack/day pack and pack cover to protect against rain
- Headlamp or flashlight
- Tall rubber boots (similar to "Wellies") are necessary for working on BCI
- Hiking boots
- Socks: thicker, tall hiking socks are good with the rubber boots
- Pants and shorts
- Lightweight, long-sleeved shirts to wear out in the field
- T-shirts
- A few long sleeve shirts, or sweater/jacket (cold AC in most buildings)
- Wide-brimmed hat or baseball hat
- Bandanas
- Poncho (not rain jacket) and/or umbrella (rainy season is generally April-November)
- Personal hygiene supplies: shampoo, soap, contact solution, toothpaste, etc.
- Prescription medications for the length of your stay (bring a copy of your prescription)
- Wristwatch
- Smarter clothes for visiting the city

Optional

- Compass and whistle
- Bird guide, binoculars
- Field journal
- Books, card/board games
- Swiss army knife or Leatherman-type tool

- Zip-lock bags/dry bags
- Towel, bathing suit, goggles
- Snorkeling equipment/dive mask
- Sandals/flip flops
- Tennis/running/gym shoes
- Alarm clock
- Headset with microphone for Skype
- Panama guide book
- Spanish dictionary/phrase book
- Sleeping bag
- Mosquito net
- Special snacks/foods

Important documents and paperwork

- Valid Passport (the expiration date must be more than 6 months after the end date of your STRI visit)
- Round-trip and/or onward airline ticket
- Proof of solvency (money/how you will pay for your expenses in Panama)
- International Driver's License
- Visa (if applicable)
- STRI Award Letter (hard copy)
- If you are traveling with your children, any documentation that may be required
- Certificate of marriage, if you are traveling with your spouse
- $\bullet\;$ Birth certificates of your children, if they are traveling with you
- Credit and ATM Cards (inform your banks before you travel) and US Dollars (denominations of \$20 and below only)

Informed Consent Process Checklist

IRB St	udy #:						
Subje	ct Identifier:	Αp	prove	ed Age Crit	erion for Sub	jects:	
Date Consent was Obtained:		Αį	Approval Period of the ICF Used:				
	n Obtaining Consent ompleting this Form:						
		Yes	No	Date	Staff Initials	Consent Note to File (for any of the items checked "No"; i.e., handwritten changes, signatures missing, etc.)	
1	Discussed study with potential subject, parent, and/or LAR.						
2	Copy of ICF given to subject and time for review and discussion with family or others was provided.						
3	The subject met all eligibility requirements (i.e., age, all inclusion criteria, and etc.)						
4	The subject signed and dated the ICF.						
5	The parent and/ or LAR signed and dated the ICF.						
6	IRB-approved LAR provided permission for subject to participate and relationship to the subject was indicated.						
7	Assent obtained if applicable.						
8	ICF was signed and dated by IRB- approved research personnel (listed as study staff to obtain consent)						
9	Did the subject, parent/LAR, and study staff enter the same date on the ICF?						
10	ICF free of strikeouts or changes.						
11	Subject consented with valid, IRB-01 approved version of the ICF.						
12	Consent was obtained before initiation of study procedures or collection of data (demographic info, questionnaires, testing, and etc.)						
13 14	Original signed ICF on file Copy of signed ICF given to subject/family.						
Signat		<u> </u>		1		Date:	

Protocol Adherence Checklist

This checklist is for researchers to ensure that **all** of your human research procedures are performed as indicated and approved by the UF IRB. Any changes to your research activities must be submitted and approved by the IRB **before implementation**.

Adherence to and Documentation for the UF IRB-Approved Protocol
☐ IRB approval for the study was continuous (Continuing Review(s) were submitted to the IRB in time and did not expire)
 If the study was expired during a certain timeframe, no study activity can occur without IRB approval (includes but not limited to enrollment, study procedures, follow-up, data analysis)
 If it is in the subject's best interest to receive study related procedures, notify the IRB immediately
Research subjects were only enrolled on the study (signed the informed consent form) during IRB-approved study periods
• If enrollment occurred during the time a study had expired or was closed to enrollment, complete a Deviation Report form and add the event to the Deviation Tracking Log
 Permission will have to be obtained from the IRB to keep the subject and data
 All Research staff have been IRB approved prior to engaging in study activities A revision must be submitted prior to allowing a new co-investigator/study staff member participate in any study related activities If a co-investigator/study staff member participates in study activity prior to IRB approval, submit a Deviation Report from to the IRB and add the event to the Deviation Tracking Log
 The number of enrolled research subjects was within the total enrollment number approved by the IRB. If the investigator over-enrolled, complete a Deviation Report form and add the event to the Deviation Tracking
 Log Permission will have to be obtained from the IRB to keep the subject and data
☐ The IRB-approved methods of recruiting/screening subjects were met and documented for each subject enrolled
 Examples of some recruitment/screening methods are, but are not limited to: advertisements (posting on bulletin boards, flyers, newspapers, television, and radio), referrals, IRB-approved research databases, medical records, inpatient population, clinic visits, etc.
 All inclusion/exclusion criterion were met and source documents for eligibility exist for each research subject If a subject does not meet all eligibility criteria but the investigator still wants to enroll them, permission from the sponsor (if applicable) and approval from the IRB must be obtained prior to enrollment (submit a Revision) If an ineligible subject has been enrolled, complete a Deviation Report form and add the event to the Deviation Tracking Log Permission will have to be obtained from the IRB to keep the subject and data
☐ IRB-approved study procedures were met and documented for each research subject
• If a procedure was not performed, a note to file should be created, signed, dated and filed with the subject's research file
Add this to the Deviation Tracking Log to report at time of CR
Follow-up procedures (return visits, phone calls, etc.) indicated in the IRB-approved protocol were met and documented for each research subject
If a subject does not show for clinic or return phone calls, a note to file should be created, signed, dated and filed.

with the subject's research file
 Add this event to the Deviation Tracking log to report at time of CR
All revisions to your protocol were approved by the UF IRB prior to their implementation
• Please note, if research procedures were performed different from those defined in the IRB-approved protocol,
they must be reported to the UF IRB as a protocol deviation.
Source documents were available to validate that the tests and measures specified in the IRB-approved
protocol were performed.
• Examples: laboratory results, pathology notes, x-rays, MRIs, psychological assessments, and questionnaires
Adverse Events/Unanticipated Problems are reported appropriately for each subject, either on at time of CR
Adverse Events/Unanticipated Problems are reported appropriately for each subject, either on at time of CR on the Cumulative Adverse Event Table or by a Serious Adverse Event Report submitted to the IRB (and add
on the Cumulative Adverse Event Table or by a Serious Adverse Event Report submitted to the IRB (and add
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