

UCAR/NCAR/UOP Field Project Health, Safety, and Security Review

Principal Investigator: Dr. C.B. Emmanuel

Project Location: Mexico, Pacific coast and Baja Peninsula

Project Dates: 6/1- 9/7/04

Reviewed by: Milenda Powers

Date: 01/04

Project Description: NAME. A primary objective of Tier 1 activities is to resolve the wind, temperature, and moisture fields at fine spatial and temporal scales around the Gulf of California, sufficient to develop stable monthly means during the summer. There is also an emphasis on the synoptic-scale (and regional scale) signal associated with Gulf of California surge events. Proposed NAME observational elements include rain gauges, radiosondes, pilot balloons, wind profilers, radars, NOAA Research Vessel Ron Brown, and NOAA P-3 aircraft.

Field Project Safety Officer: XXXXX

Condition	Hazard	Control
Equipment/Instruments: 3 – ISS GLASS SPOL 4 radar units – Mexico owned	To be documented.	To be documented.
Chemicals, compressed gasses, radioactive materials: He, N ₂	Compressed gas cylinder hazards	Secure cylinders to immobile object with non-elastic strap or chain. Transport with cap in place. Use Haz-Mat licensed shipper.
Weather Expected: Hot, rainy, thunderstorms	Heat stress, lightening, flood	Avoid work in heat of the afternoon, use umbrellas or ‘tents’ to provide shade, wear sunscreen, drink adequate water, replace electrolytes as necessary. Remain indoors during lightening storms. Set up away from flood plain.
Security and political stability:	Urban crime, including pick pocketing, purse	Travel in groups of 2 or more. Avoid traveling at

iJet rating: moderate	snatching, kidnapping, car jacking.	night. Carry a local cell phone. Hotel staff and police may be of assistance during emergencies. Keep phone numbers handy. Inexperienced travelers should be paired with experienced travelers who are familiar with Spanish language and local customs.
Local Health Issues: Food and water borne illness Mosquito borne illness	Drinking untreated water and eating raw foods. Mosquito bites from an infected mosquito.	Eat only cooked foods, or fresh fruits/vegetables that you have peeled/washed with treated water. Drink only bottled or treated water. Brush teeth with only bottled or treated water. Use ice made from bottled or treated water only. Visit Passport Health for a diarrhea kit and prescription for antibiotics. Wear long sleeves and pants. Use mosquito repellent on exposed skin. Mosquitoes are active both during daylight and night.
Student/Volunteer Participation: ~ 20 students, ½ from Mexico and ½ from US – mostly CSU	Inexperienced decisions. Students will be positioned along the Pacific coast conducting balloon launches, as back up operators for ISS and SPOL, involved with data collection and evaluation.	Train students for their assignments prior to the beginning of the project. Maintain phone contact between student teams and NCAR staff. NCAR staff to regularly visit student teams. Pair US students with host students, who are familiar with local customs and language.
Mode of Transportation: Commercial airline to Mexico Rental cars for local transport	Driving in unfamiliar location where US style traffic rules are not well followed.	Drive defensively. Take full insurance coverage. Keep rental car company phone number and hotel phone number with you to call in case of emergency.