



Terceira Island, Azores

Lajes Air Field

ATom Deployment Guide

(revised Sept 2016)

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BEFORE ARRIVAL

TRAVEL DOCUMENTATION

Citizens of the US, EU, GB, Australia and Canada do not require visas to enter Portugal. Non-U.S. citizen legal residents in the United States should check the Portuguese Embassy website (http://www.embassyportugal-us.org/Embassy_of_Portugal/Visas.html) for further visa requirements.

CDC RECOMMENDATIONS

The Center for Disease Control recommends that all travelers have their routine vaccinations (MMR, diphtheria-tetanus-pertussis, chickenpox, polio and a yearly flu shot). Further, the CDC recommends some travelers get a hepatitis A vaccination.

CURRENCY

Portugal's currency is the Euro. The exchange rate as of the writing of this document was 1 USD = .92 EU.

SITE ORIENTATION

Google Maps provides very accurate information regarding the island of Terceira. Please refer to the maps at the end of this section for a general orientation and how to get to your hotel from the airfield. Keep your passport safely stored and carry a photocopy of your passport with you at all times.

As a U.S. government aircraft the DC-8 will be parked on the military side of the airfield. Upon arrival, personnel will receive a one-week Lajes Air Field identification badge and will be bussed to the AMC terminal with their luggage for Customs and Immigration processing. Subsequent to Customs and Immigration processing personnel will be bussed to the Angra Auto car rental desk on the commercial side of the airport. Rental cars will be staged at the AMC terminal. On instrument access days, all personnel will park at Building T-810 and walk to the aircraft.

ESPO SITE SUPPORT

Name	Phone	E-mail
Dave Jordan (Site Manager)	+1 (650) 417 8812	dave.e.jordan@nasa.gov
Erin Czech (Site Support)	+1 (650) 450 6538	erin.czech@nasa.gov

PER DIEM

FY17 Per Diem rates as set by the Department of Defense

<http://www.defensetravel.dod.mil/site/perdiemCalc.cfm>

Locality	Maximum Lodging	Local Meals	Local Incidental	Maximum Per Diem	Effective Date
PORTUGAL [OTHER]	98	52	13	163	05/01/2016

* All rates are in US Dollars

SCHEDULE

Wednesday, February 15	Thursday, February 16	Friday, February 17	Saturday, February 18
≈ 16:30 arrival from Ascension Island	Instrument access	Instrument access	≈ 09:30 departure for Thule

DAILY SCHEDULE

While work and aircraft access schedules will generally follow normal business hours (08:00-17:00) schedule details and updates will be posted to the list serve and posted on the ATom website -

<https://espo.nasa.gov/atom>.

LODGING

ESPO has booked rooms in three hotels. The aircraft crew (flight and ground) will be staying at the Atlantida Mar hotel. The science crew will be split between the Varandas do Atlantico and Praia Marina Hotels. The details of who, of the science crew, will be staying in which hotel were not known at the time of the writing of this document. Members of the science crew will be informed where they are staying at a later date.

TRANSPORTATION

RENTAL CARS

ESPO has made arrangements with AngrAuto (a local car rental company) and cars will be picked up on the commercial side of the airport after going through the car rental business at the AngrAuto rental desk in the commercial terminal arrivals area. The AngrAuto rental cars have a special sticker on the windshield that permits the vehicles to be driven onto the Lajes Air Field base. ESPO will have arranged for one rental car for every two people in the science team. One member of each group will pay for their group's rental car.

COMMUNICATIONS

INTERNET

All hotel rates include free access to high speed internet.

We recommend turning off data roaming on any mobile device while in Portugal as data roaming rates are \$2.05 per MB.

VOICE AND TEXT

For AT&T customers without a package or if Portugal is not included in their package the "Pay per Use" rate is \$1.5/minute. For Verizon customers the "Pay per Use" rate is \$1.79/minute. Text message costs vary depending on the service provider. Rates can vary widely depending on your "Plan" or "Package".

- The Portugal country code is 351
- The Terceira code is 295
- To call a U.S. number while in Portugal enter the plus sign, then 1 then the 10 digit phone number

- To call a local number while in Portugal from a U.S. cell phone enter the plus sign, then 351, then 295 then the local number

ELECTRICAL POWER

Electrical power at the hotels in Praia da Vittoria is 230V/50Hz. The plug type used is "Type F".

Take care when plugging in your electronic devices. Bring universal plug adapters with you.

Unlike at the hotels, power is delivered on base at Lajes Air Field as in the U.S. (i.e., 120V/50Hz, Type A/B (U.S.) style outlets)

In Portugal the power sockets used are of type F:



Type F: This socket also works with plug C and E

AIRCRAFT ACCESS

The aircraft will be parked in the Foxtrot ramp area, which is the ramp area closest to building T-810. You will be able to park your vehicles at the OSS building (T-810) and walk to/from the aircraft. You will need to wear your ATom Badge and a reflective vest whenever you are on the ramp and/or walking to/from the DC-8. An escort for ATom badged people is not required. The ramp is an active area of the airport and can be quite dangerous if you don't keep in mind where you are and stay alert for operational aircraft. The LN2 and dry ice will be stored in building T-822 that is next to building T-810.

AIRFIELD SAFETY

- Always use Personal Protective Equipment when handling hazardous products/materials or performing tasks that require additional protection (i.e., transferring LN2)
- You are NOT allowed free roaming on the aircraft ramp
- No open-toed shoes are allowed when working on the aircraft or walking on the ramp.
- Be extremely aware of aircraft and trip hazards when walking to the aircraft.
- No photographs of airport operations on the ramp are permitted.

SHIPPING

We were told to allow at least a week for shipping through FedEx or DHL.

Please coordinate all unscheduled shipments to and from Terceira Island with the ESPO site manager, Dave Jordan (contact info above).

HEALTH

Dial 112 for all emergencies.

HOSPITALS & CLINICS

The main hospital on Terceira Island is Hospital de Santo Espírito da Ilha Terceira. The hospital is right off of the "Via Rápida" (VR) just outside of Angra do Heroísmo – the largest city on Terceira Island. The VR is the main highway connecting Praia and Angra. The hospital is about a 20-minute drive from Praia. The hospital provides comprehensive medical and emergency care 24/7.

STORES/RESTAURANTS

There is a large full-service supermarket called Continente (open daily from 08:30-22:00) just outside the Praia town center that has a small pharmacy and also sells office supplies, power adapters, batteries, etc. Next to Continente is Worden, a consumer electronics store that sells some computer peripherals.

Praia has several restaurants along Avenida Beira Mar, which is a small street that runs along the shoreline. On the streets running up from the shoreline are ATMs, pharmacies and various shops.

UPON DEPARTURE

Preflight for the departure to Thule will begin approximately three hours prior to takeoff. People with cars should drop passengers and luggage off at the AMC Terminal and drive back to the commercial side of the airport to drop off their car. Leave the keys in the car. There will be a bus that will take those that have dropped off cars from the commercial terminal back to the AMC Terminal. All personnel will go through departure Customs and Immigration processing at the AMC Terminal and then shall be bused to the aircraft.

If this plan changes you will be notified via an e-mail from the Site Manager prior to your arrival in Terceira.

You are responsible for obtaining the food you want to take on the outbound flight. The options available are getting food to go from the hotel or buying food at a local supermarket.

WEATHER

The average wind speed varies from 14 mph (January) to 8 mph (August). The probability of precipitation at some point in the day varies from 71% in February to 43% in July. The average daily low temperature varies from 54° (February) to 67°F (August) and the average daily high temperature varies from 62°F (February) to 77°F (August).

NATURAL HAZARDS/EMERGENCY PLANS

EARTHQUAKES

Please review the Earthquake preparedness guidelines from the CDC below before the deployment.

If a major earthquake occurs during our stopover in American Samoa,

- On base - The team will follow the instructions of 65th Operations Support Squadron.
- At hotel or elsewhere - Shelter in place using the CDC guidelines.

Following an earthquake, all team members must check in with the ESPO site manager when it is safe to do so (either in person or by phone). The ESPO site manager will do a head count to ensure that everyone on the team is safe and accounted for.

DURING AN EARTHQUAKE (FROM CDC.GOV)

Indoor Safety

If you are inside, stay inside. DO NOT run outside or to other rooms during shaking.

In most situations, you will reduce your chance of injury from falling objects and even building collapse if you immediately:

- DROP down onto your hands and knees before the earthquake knocks you down. This position protects you from falling but allows you to still move if necessary.
- COVER your head and neck (and your entire body if possible) under the shelter of a sturdy table or desk. If there is no shelter nearby, get down near an interior wall or next to low-lying furniture that won't fall on you, and cover your head and neck with your arms and hands.

HOLD ON to your shelter (or to your head and neck) until the shaking stops. Be prepared to move with your shelter if the shaking shifts it around.

DO NOT stand in a doorway. You are safer under a table. In modern houses, doorways are no stronger than any other part of the house. The doorway does not protect you from the most likely source of injury—falling or flying objects. Most earthquake-related injuries and deaths are caused by falling or flying objects (e.g., TVs, lamps, glass, bookcases), or by being knocked to the ground.

You can take other actions, even while an earthquake is happening, that will reduce your chances of being hurt.

- If possible within the few seconds before shaking intensifies, quickly move away from glass and hanging objects, and bookcases, china cabinets, or other large furniture that could fall. Watch for falling objects, such as bricks from fireplaces and chimneys, light fixtures, wall hangings, high shelves, and cabinets with doors that could swing open.
- If available nearby, grab something to shield your head and face from falling debris and broken glass.
- If you are in the kitchen, quickly turn off the stove and take cover at the first sign of shaking.

If you are in bed, hold on and stay there, protecting your head with a pillow. You are less likely to be injured staying where you are. Broken glass on the floor has caused injury to those who have rolled to the floor or tried to get to doorways.

Outdoor Safety

If you are outside, stay outside, and stay away from buildings utility wires, sinkholes, and fuel and gas lines.

The area near the exterior walls of a building is the most dangerous place to be. Windows, facades and architectural details are often the first parts of the building to collapse. Also, shaking can be so strong that you will not be able to move far without falling down, and objects may fall or be thrown at you. Stay away from this danger zone--stay inside if you are inside and outside if you are outside.

If outdoors, move away from buildings, utility wires, sinkholes, and fuel and gas lines. The greatest danger from falling debris is just outside doorways and close to outer walls. Once in the open, get down low (to avoid being knocked down by strong shaking) and stay there until the shaking stops.

TSUNAMIS

If a tsunami warning takes effect during our stopover on Terceira Island,

- At airport - The team will follow the instructions of airport management and the airport Emergency Operations Staff.
- At hotel - Move in an orderly, calm and safe manner to a higher floor if necessary and follow the advice of local emergency and law enforcement authorities.
- Elsewhere - If you are at the beach or near the ocean and you feel the earth shake, move immediately to higher ground. DO NOT wait for a tsunami warning to be announced. Stay away from rivers and streams that lead to the ocean, as you would stay away from the beach and ocean in the event of a tsunami. A tsunami from a local earthquake could strike some areas before a tsunami warning could be announced.

When the situation has stabilized, all team members must check in with the ESPO site manager (either in person or by phone). The ESPO site manager will do a head count to ensure that everyone on the team is safe and accounted for.

MAPS



Route to get from the first round-a-bout to either the Varandas Atlantico or the Praia Marina Hotels

4 min (1.5 km)

via EN1-1A

4 min without traffic

EN1-1A 111

Praia da Vitória, Portugal

↑ Head east on EN1-1A

26 m

📍 At the roundabout, continue straight

700 m

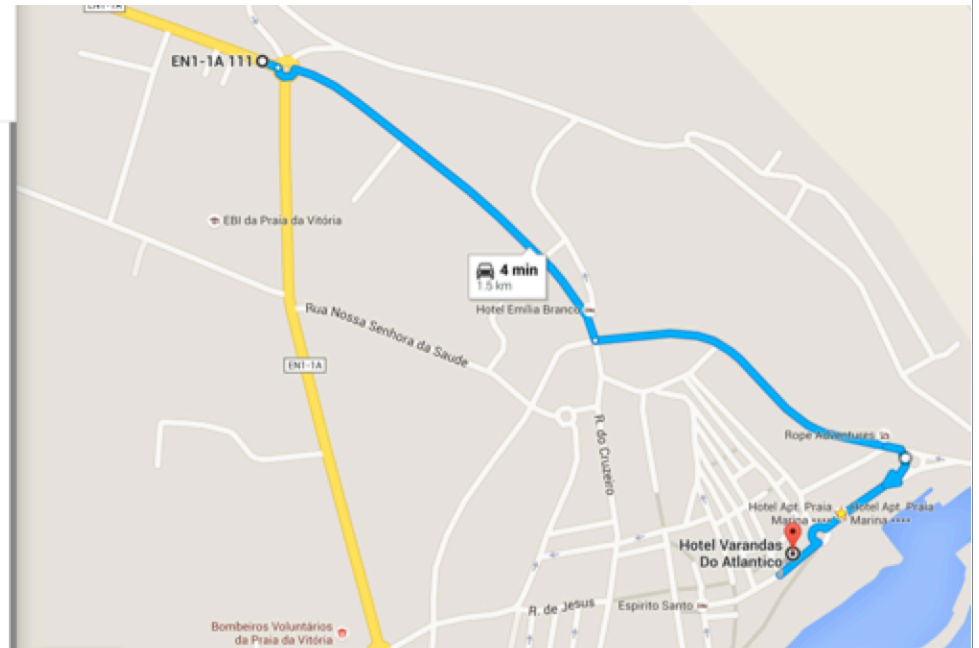
↩ Turn left

550 m

📍 At the roundabout, take the 1st exit

📍 Go through 1 roundabout

📍 Destination will be on the right



Route to get from first round-a-bout to Atlântida Mar Hotel

4 min (2.0 km)

via EN1-1A

4 min without traffic



EN1-1A 111

Praia da Vitória, Portugal

↑ Head east on EN1-1A

37 m

📍 At the roundabout, take the 1st exit and stay on EN1-1A

📍 Go through 2 roundabouts

📍 Destination will be on the left

2.0 km

Atlântida Mar Hotel, Rua Boavista, 9 - Praia da Vitória

9760-557, Portugal

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.

