



KORUS-AQ MISSION PARTICIPANT INFORMATION PACKAGE

Osan AB Mission Information Package

WELCOME TO OSAN AB

This document will get you started and answer most of your questions ahead of your arrival to Osan AB.

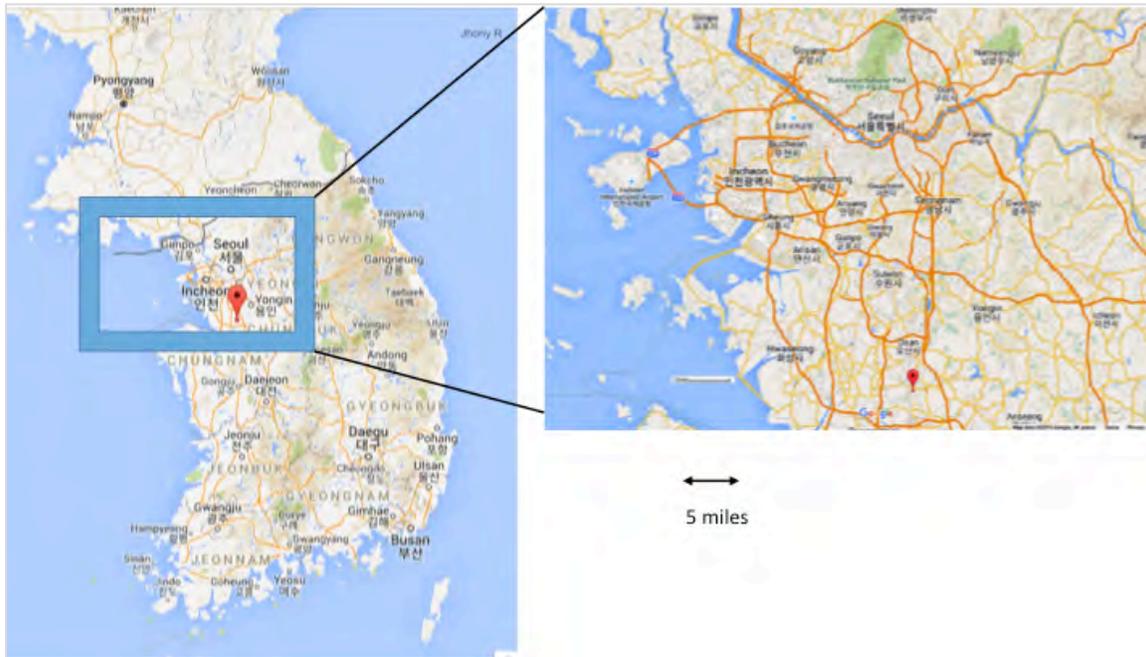
*For further questions email
the Earth Science Project
Office osan@espo.nasa.gov
(ver. April 11, 2016)*



KORUS-AQ Mission Information Package

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Osan Air Base, Republic of Korea



Upon Initial Arrival to Osan Air Base

The following pages will navigate you through the different options on how to arrive to Osan Air Base. However, it is very important (and it will make your travel a lot smoother) if you do the following:

- **Keep the ESPO database up-to-date** with your arrival information.
- Fully **READ** this information package.
- For any further help or **assistance**, email the ESPO personnel at Osan AB: osan@espo.nasa.gov, the email address is for “all things ESPO” at Osan AB. The reply will come from whomever is at Osan AB at that time.
- ESPO personnel will always be reachable by cell phone at the numbers below:
 - o +82 10-6884-4363
 - o +82 10 6884-8911

All new arrivals (including Korean nationals) must meet ESPO personnel at 0740am in the lobby of the Turumi lodge. For most -if not all- this will be the day after your arrival to Incheon International airport. ESPO personnel will escort you to the Pass and Registration Office and from there to the KORUS-AQ operations area. **You must wait in the hotel or immediate area until you are issued a USFK Form 37EK Identification card. DO NOT leave the base until you have been issued a USFK Form 37EK identification card.**

Transportation from Incheon International Airport to Osan Air Base

There are several transportation options to arrive at Osan Air Base, these vary depending on several factors. The options listed below (and gate locations) are described in more detail later in this document:

1. **ITT bus:** the bus runs three times a day from Incheon International Airport non-stop to Osan Air Base. The bus enters the base through the Morin Gate and it stops at several places on-base including the Turumi Lodge. **Participant's name MUST be on the Entry Authorization List (EAL) for that day.** ESPO will provide this list to Security Forces based on your arrival dates as reflected on the mission registration database, **ensure it is always up to date.**
2. **Inter-city bus:** It runs every hour from Incheon International Airport and only stops twice before reaching your destination: Songtan Station. Songtan station is located less than a mile from the Osan Air Base Main Gate. The cost is 11200Won (~\$10USD) A taxi to the Osan Air Base Main gate costs about 3000 Won (~\$3USD). The transit time, compared to the ITT bus is about the same. Once inside the main gate, taxies can take you to the Turumi lodge for about 3000Won (~\$3USD)
3. **Subway:** It takes about the same time as the bus, about 2.5 hours. It involves two (2) transfers and costs about 4950Won (~ \$5USD)
4. **Rental Car or Privately owned vehicles:** Must have an escort meet you at the Doolittle gate to obtain a base day-pass for the vehicle. These passes must be renewed daily. Base access for rental cars or privately owned vehicles is through the Morin gate. **This option will not be reimbursed unless previously authorized.**
5. Taxi service from Incheon Airport to Osan Air Base is prohibitively expensive (upwards of \$250USD) and will still take about two (2) hours. **This option is not authorized and will not be reimbursed.**

Everyone **EXCEPT participants from designated countries (DCP)** may choose from any of the four (4) options above for their **initial arrival** to Osan Air Base. Once on base, participants **MUST NOT leave the base** until they have received their Osan Air Base ID card (Form 37EK) and must confine themselves to the Turumi lodge and the restaurants around the area. The KORUS-AQ operations area and aircraft parking areas are inside Restricted Areas and therefore off-limits until a proper identification has been issued.

Korean Nationals are to be met by an authorized escort at the Main Gate during regular business hours and escorted to the the base Pass and Registration office. Once there, KN will be issued an unescorted base access ID card (Form 37EK).

Failure to keep your information in the ESPO database updated will result in your name missing from the daily EAL and prevent you from entering the base.

DCP personnel are to be met by an authorized escort at the Main Gate during regular business hours and escorted to the the base Pass and Registration office. Once there, DCP personnel will be issued an escorted base access ID card.

ITT Bus

The bus runs 7-days a week and departs the airport at 0900, 1830, and 2230 hours (unless there are delayed arrivals). The trip to/from Osan Air Base is about 1 hour and 40 minutes, but it could take up to 4 hours in bad traffic. The **ITT Airport Shuttle Bus** (Fig. 1) to Osan Air Base departs from the **Joint Reception Center Counter** (Fig. 2) located by Bus Stop #1 (see red arrow in Fig. 3) at the Incheon International Airport. Approach the counter, and add your name to the passenger list. The cost is **\$35USD, payable in cash only and with exact change**.

The bus brings passengers directly to Osan Air Base via the Morin gate where access authorization is verified. Participant's name must be on the EAL for that day, two forms of government issued identification ID will be required (a government issued badge, passport, or driver license.) The bus then drops passengers off at the **Turumi Lodge (Bldg 772)** and at the **Information Tickets & Travel (ITT, Bldg 924)**. See Fig. 8 for the locations of different buildings on base.



Fig. 1: One of the ITT Buses.



Fig. 2: Joint Reception Center Counter.

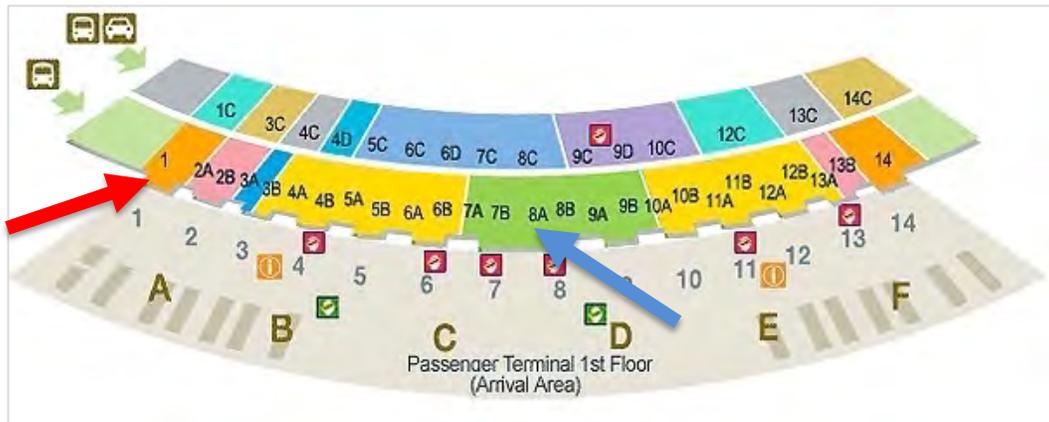


Fig. 3: Bus counter locations at the Incheon International Airport terminal (Red arrow for ITT Bus and Blue arrow for Inter-City Bus).

Note: From Osan AB to Incheon International Airport, the bus departs from the ITT building at 0600, 1130, and 1530 hours. It stops at the **Turumi Lodge 30 min before the indicated departure times** and at ITT 15 min prior to departure.

Inter-City Bus

The buses depart every 30-45 min, sometimes every 2-hr if demand is low. The first bus departs at 0640 hours; the last bus departs at 2220 hours. Tickets for this bus can be purchased at the kiosk/booth around **Gate 8A of the Incheon International Airport** (see blue arrow in Fig. 3); the cost is around 11,200Won. (~\$10USD). The bus stop is located just outside the terminal, **Bus Stop 8A**, the bus is purple with "**Airport Limousine**" written on its sides; catch the one that has **Pyongtaek**, **Songtan** or **Osan AB** written on the window (it will be going in the direction to **Gyeonggi**).

Fig. 4b is a picture of a bus ticket, Fig 4b shows the Counter #20 where you buy the ticket. There are two counters inside the terminal, #20 and #47. Note that the ticket indicates the **time**, the destination (**SONGTAN**, in this case it also shows **Airbase**). The number **02** indicates the assigned seat number. Be at the bus stop about 10-15 minutes before departure. The driver will open the bus storage bins. Ensure that your luggage goes in the cargo hold for **SONGTAN**.

승차권 (회수용) TICKET 15228425#0673 [리무진요금] 대원고속 인천국제공항 Incheon International Airport 안성우등 송탄(오산Airbase) 승차장번호 08A Bus Stop Number 발매일 16/02/21 Date Of Issue 출발일 16/02/21 Date Of Departure 출발시간 17:10 Departure Time 요금 11,200(정상) 현금 Fare	(승객용) 15228425 영수권 안성우등 Anseong 송탄(오산Airbase) Songtan 0100001234 (11,200원) 현금 (자진발급) 승인일자 2016-02-21 승인번호 149492551 요금 11,200(정상) <table border="1"> <tr> <td>승차일</td> <td>출발시간</td> </tr> <tr> <td>16/02/21</td> <td>17:10</td> </tr> <tr> <td>좌석</td> <td>담당자</td> </tr> <tr> <td>02</td> <td>박정희</td> </tr> </table>	승차일	출발시간	16/02/21	17:10	좌석	담당자	02	박정희	운송약관 1. 승차권 구입 시에는 해당 운송사의 운송약관에 따릅니다. 2. 지방노선 사전예매표의 환불은 - 출발 전에는 10%의 수수료를 - 출발 후 3일까지는 20%의 수수료를 - 출발 후 4일부터 30일까지는 50%의 수수료를 공제한 잔액을 환불합니다. - 출발 후 30일 이후에는 환불불가입니다. (승차권 교환/변경도 환불과 동일하게 적용됩니다.) 3. 승차권 유효기간은 출발일로부터 30일까지입니다. 4. 승차권 구매 후 분실(일부 분실) 또는 훼손시 재발권 및 환불이 불가합니다. 5. 무임승차물은 승차권 1매당 2개(12kg20kg) 이하로 합니다. 6. 차내휴대물은 승객 각자의 책임하에 보관합니다. 발행처 (주)인천에어네트워크 (사업자등록: 121-81-48940) 400-340 인천광역시 중구 공항로 271, 여객터미널 B012호(운서동) www.airportbus.or.kr 032/741-6400~4 (월~금 09:00~12:00, 13:00~18:00) 현금영수증 자진등록처 국세청 126번 http://현금영수증.kr
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Fig. 4a.: Intercity bus ticket.



Fig. 4b: Inter-City bus counter (Counter #20)

The bus makes one or two stops on the way -and again- your destination is the **Songtan Terminal, not the Osan terminal**. From the Songtan bus station catch a taxi –or walk to Osan Air base (about ½ mile). The transit time to your stop is usually 2 hours. (Fig. 5).

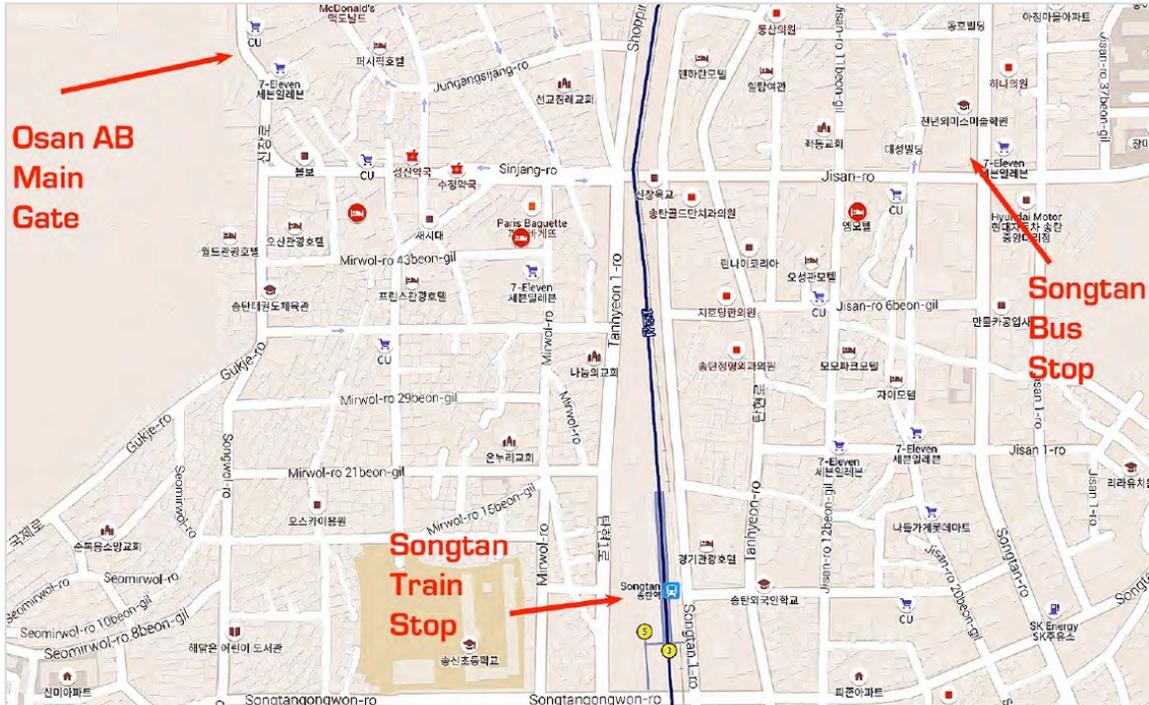


Fig. 5: Location of Osan AB Main gate, bus and train (subway) stations.

Subway Transportation

Another method of transportation is the Seoul Metro (*Fig. 6*). The cost of the fare is around 5000Won and the transit time is around 2.5 hrs.

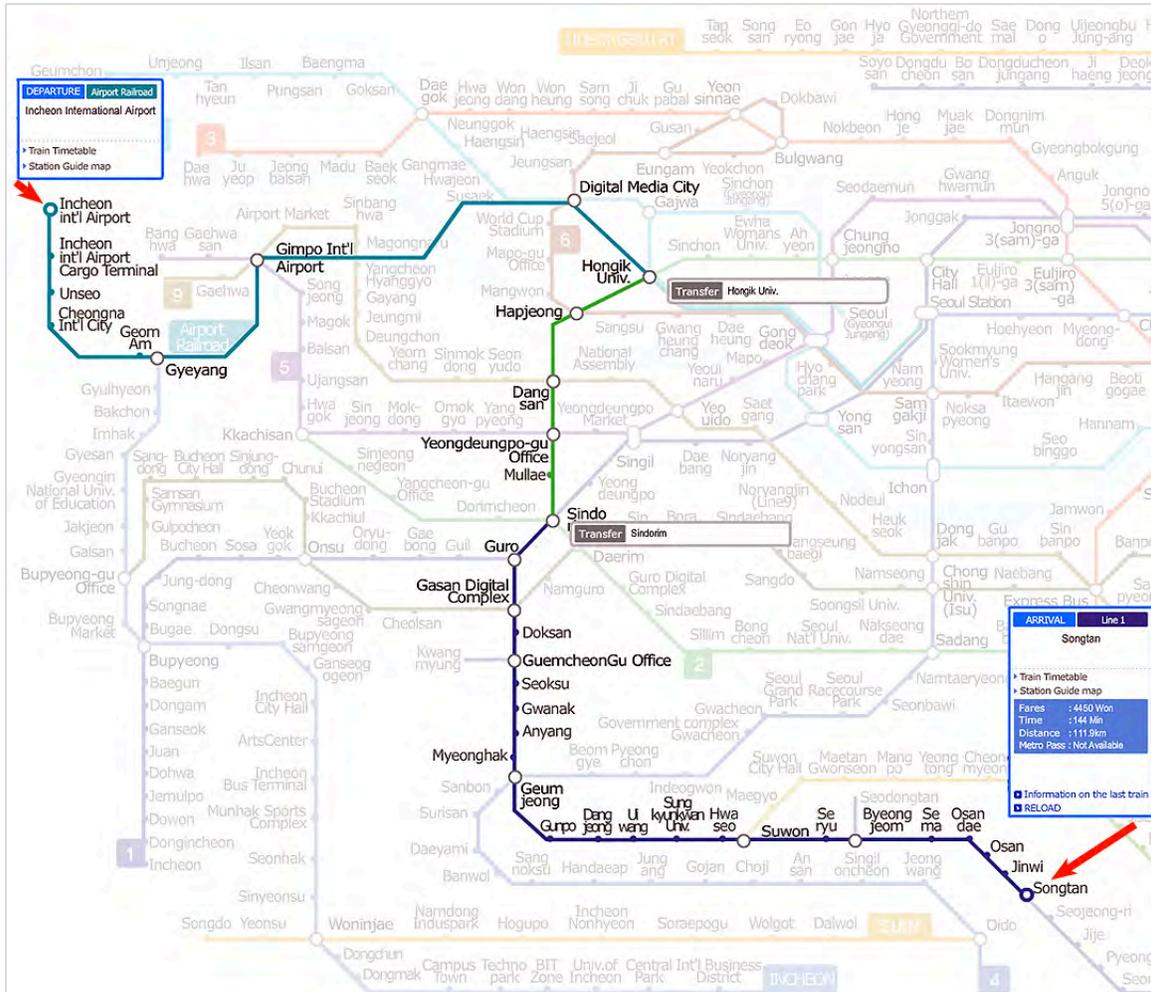


Fig. 6: Metro route from Incheon International Airport to Songtan (near Osan Air Base)

Directions:

- At the Incheon International Airport purchase a ticket for the entire journey, with Songtan as your final destination. Then take the **Airport Railroad line** to **Hongik University** station.
- Transfer to the **Green line (Line 2)** and get off at the **Sindorim** station.
- Transfer to the **Blue line (Line 1)** and get off at the **Songtan** station.
- Take a taxi or walk to Osan Air Base (about half a mile away) or to your hotel.

Always ensure that you follow the signs in the subway towards your next metro line (color coded) and that you go in the right direction (see the stop names at the end of the line). You can check the real time Metro information and plan your route at the following website: <http://dmzap1.seoulmetro.co.kr/station/eng/linemap.action> There are several

great **apps** for iPhone and Android phones that you may want to download before you travel: *Explore Seoul Subway* and *Subway Korea*. These are highly recommended.

Lodging Information

We have two lodging venues reserved for the duration of the mission, these are the Turumi Lodge, building 772 on Osan Air Base; and the Osan Hotel, right outside the Main Gate. ***No contact with any of these hotels is required***, ESPO has submitted names and arrival/departure dates based on the information provided on the registration database. Upon checking in, please provide them with your method of payment. If the arrival date changes, please update the database immediately, notify ESPO personnel. After checking-in, changes to check-out dates can be handled directly with the hotel. The confirmation numbers and basic hotel information is as follows:

Turumi Lodge

Rate: \$60/night

Room block name: NASA

Reservation number: **20980094403**

Phone Number: +82-31-661-1844

Email: turumilodge.reservat@us.af.mil

For hotel services, amenities, and more information: <http://www.51fss.com/Lodge.html>

Note: Calling the hotel is not required, they will hold the room without a credit card on file even after 6pm. Failure to show up on the specified day, however, will result in the cancellation of the entire reservation.



Fig. 7: Turumi Lodge

Osan Hotel

Rate: \$70/night (includes breakfast)

Room block name: NASA KORUS-AQ

Confirmation number **1642450**

Address: 298-151 Sinjang 2(i)-dong, Pyeongtaek-si, Gyeonggi-do, South Korea

Phone Number: +82-31-664-8960

Email: osanhotel01@naver.com

Website: www.osanhotel01.kr

Amenities:

- Air conditioning, TV, desk, microwave, small refrigerator, iron and ironing board.
- 220V to 120V transformer
- Laundry services available for a fee



Fig. 8: Standard room

Notes:

- The Osan Hotel doesn't require a credit card to hold the hotel if arrival is past 6pm.
- The breakfast buffet starts at 0630 and it takes place on the 5th Floor at the World Hotel (across the street). (Fig 9)

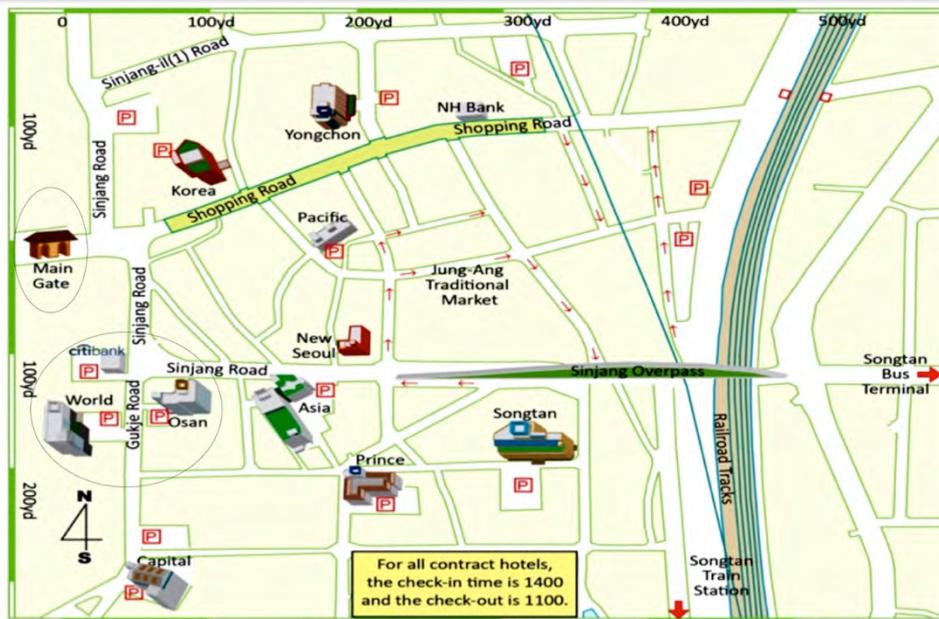


Fig. 9: Location of the Osan Air Base Main Gate and the Osan and World Hotels.

Per Diem

Although Osan Air Base and Pyongtaek are almost one and the same, they have different per diem rates. The per diem at Pyongtaek is \$79 lodging / \$61 M&I; Osan Air Base has a per diem of \$74 for lodging / \$49 M&I.

Car Rentals & Privately Owned Vehicles

This option will not be reimbursed unless previously authorized. Car Rentals are available on base by Korea First Rent-a-car (KFR) and the rates start at \$60USD/day for a compact sedan. Insurance coverage is an additional charge (average cost \$240 per month). You might get a 30% off on the daily rate for a 30-day rental period. Driver **MUST** have an **international driver license**. A vehicle rented on base has the advantage of having a base sticker that allows it to go in/out (assuming that the driver has vehicle privileges). You can make reservations email kfrcar@gmail.com or Bestrent@daum.net and by phone to +82-31-617-5800, their hours are: 10am – 7pm (Korea time.)

Everything on base is within walking distance, with only 1/2 mile from the Turumi Lodge to either the main gate or the KORUS-AQ mission operations area. **Taxis are the best and most efficient way of transportation.** They are quickly and readily available 24/7 and cost less than \$3 per ride on average.

Privately Owned Vehicles (POV) and vehicles rented outside the base require that the drivers have Vehicle Privileges indicated on their 37EK ID. These vehicles must proceed to the Doolittle Gate to obtain a vehicle pass and then proceed to enter the base via the Morin Gate. This pass must be renewed daily. An authorized escort with driving privileges is required if the driver doesn't have a USFK Form 37EK. Once on base -if desired- a 30-day vehicle pass can be obtained at the Pass & Registration office. Documentation required includes: driver license, vehicle registration, and proof of insurance. See ESPO personnel for assistance.

Dialing Phone Numbers in Korea

The numbers you dial depend on the phone you are using and where you are calling from. If using a US cell phone in Korea, or when calling from the US:

- For all 783-XXXX numbers, dial 011 82 31 660 XXXX / + 82 31 660 XXXX
 - For all 784-XXXX numbers, dial 011 82 31 661 XXXX / + 82 31 661 XXXX
- Once in Korea & when using a Korean cellphone dial the following numbers:
- For all 783-XXXX numbers, dial 0505-783-XXXX and
 - For all 784-XXXX numbers, dial 0505-784-XXXX

Note: When travelling abroad it makes a big difference how you have stored your contacts' phone numbers in your phone. While some phones might have some sort of "International Dial Assist" feature, these are not always reliable. Dialing a number stored as (650) 604-2000 might give different result and end up dialing a local number. A better option –and good habit- is to include the country code for the United States (+1) as part of your contacts' phone number. Dialing +1 650 604-2000 will always work, even when you are back in the US.

Mobile Telephone & Data Communications

A few **recommendations** regarding cell phone use during the mission:

- Before departing the US or home country, it might be a good idea to have an international data/voice plan setup even if you are planning not to use your phone for roaming data and phone calls. Roaming data can cost as much as \$20USD/Mb.
- Ensure that **ROAMING is turned off** in your smart phone before you depart the US or your home country. A single “sync” upon landing can use several Mb of data.
- Free Wi-Fi is available almost everywhere including airport, cafes. Similarly, on base, free Wi-Fi is available at the hotel, restaurants, food courts, gym. *Common sense and standard security practices are recommended when connecting to public networks, use VPN for maximum security. See your organization’s IT support for details.*
- When connected to Wi-Fi (and roaming turned off) many apps allow text messaging, voice and video calls at virtually no charge. These apps include –but are not limited to: *Whatsapp, Facebook Messenger, Voxter, Skype, Hangout*, and others.

Obtaining a Local Phone/Data Plan

Look for the **Prepaid SIM** booth at/near the KT Roaming Center at Incheon International Airport’s arrival terminal. It is best to rent them upon arrival & cancel them when you depart. Cancellations **MUST** be done in person at the same office where SIM card was obtained. Details are as follows:

- You must have an unlocked GSM **smart phone** (check with your carrier). SIM cards for regular phone-only devices are not available.
- You will need to put a credit card on file
- Cost: ~33,000 Won for 10 days / ~44,000Won for one month / 100,000W deposit
- Unlimited data
- Incoming calls are free
- Outgoing calls: 20c/min within Korea and 8c/min to the US

For more information visit: <http://roaming.kt.com/rental/eng/custom/center.asp>

Office Phone Lines

We will have several land lines available to us during the mission (numbers and locations to be posted/distributed at a later time.) These are phones that can dial anywhere on base and receive calls from anywhere in the world. However, these phones cannot be used to make long distance international calls to the US.

Internet Connectivity on Base

ESPO will provide internet connectivity at the buildings that are part of KORUS-AQ mission operations. Passwords will be emailed to the team. Every restaurant and base facility has open wireless internet connections.

Shipping to/from the US (and other countries)

The FedEx office located inside the BX mall (see map at the end of the document) is the most convenient and fastest method for small shipments, it usually takes 2-3 days in either direction. For FedEx shipments to Osan, send items to:

Name/NASA & Local Phone Number (such as your room phone number)
Osan AB FedEx World Service Center
Pyeongtaek City, Postal Code: 459-122
Korea

Notes:

- It is extremely important to include Sender's and receiver's phone number (local number preferred) in the shipment.
- To Hold item at location, check special handling (HAL) on Airway bill.
- Regular shipments only (68Kg or 150lb)
- Seek advice from ESPO for shipments exceeding FedEx capacity.

Base Access and Restrictions

Osan AB Gates & Schedule

Main Gate: This gate is open 24/7 for pedestrians. Escorted visitor requests are processed here. **No vehicle passes are issued at this gate.**

Pedestrians: 24/7 pedestrian access.

Cars: 5am – 10pm, (must already have a vehicle and visitor pass).

Morin Gate: No vehicle nor visitor passes are issued here.

24/7 for vehicles only (must already have a vehicle and visitor pass).

Doolittle Gate: There is no access through the Doolittle gate, it is only intended for processing of vehicle passes. Once a pass is obtained, vehicle must proceed to enter the base via the Morin Gate. Vendors, suppliers, cargo transport, etc. must also request access at this gate.

The hours of operation are daily from 0600 – 0000

Base Restrictions

- **No Photography** on the flight line or towards the runway. No photographing of military aircraft.
- **Designated country personnel (DCP) MUST** be escorted at all times.
- Always carry the following identification:
 - Form 37EK: issued by Osan Air Base
 - ESPO issued ID mission badge: Allows you to visit KORUS-AQ restricted areas.
 - KID /passport
 - Special access/training as needed (i.e.: base issued forklift authorization.)

- **High visibility reflective vests** must be worn at all times inside the restricted areas. Bring your own if you have one, if not ESPO can **loan** you one if you don't have one available.
- **Appropriate working attire:** no open toe shoes nor heels.
- **Do not meander or walk into buildings not authorized for our use.**
- **Last minute visitors:**
 - Must be escorted at all times
 - No after-hour access, therefore last minute visitors CANNOT stay on base.
 - No last minute DCP.

Note: Base personnel -anyone, not just base security- will challenge your authorization and identification at any time while operating inside the restricted areas. **ALWAYS** carry identification.

KORUS-AQ Mission Areas of Operation

The mission operates from several buildings in relatively close proximity (Fig. 10 & 11). All these buildings have power available at 120V/60Hz (on 20A circuits). No plug adapters are required. Building 1187 has a *small kitchenette* on the second floor, ESPO will setup a couple of *small refrigerators and microwave ovens* for everyone's use.

- Building 1187: hangar floor and office space (Fig. 12 – 15)
- Building 1161: Hangar floor/ office space for LaRC & Hanseo University aircraft. (Fig 16 - 17)
- Building 1171: Office and meeting space. (Fig 18-19)

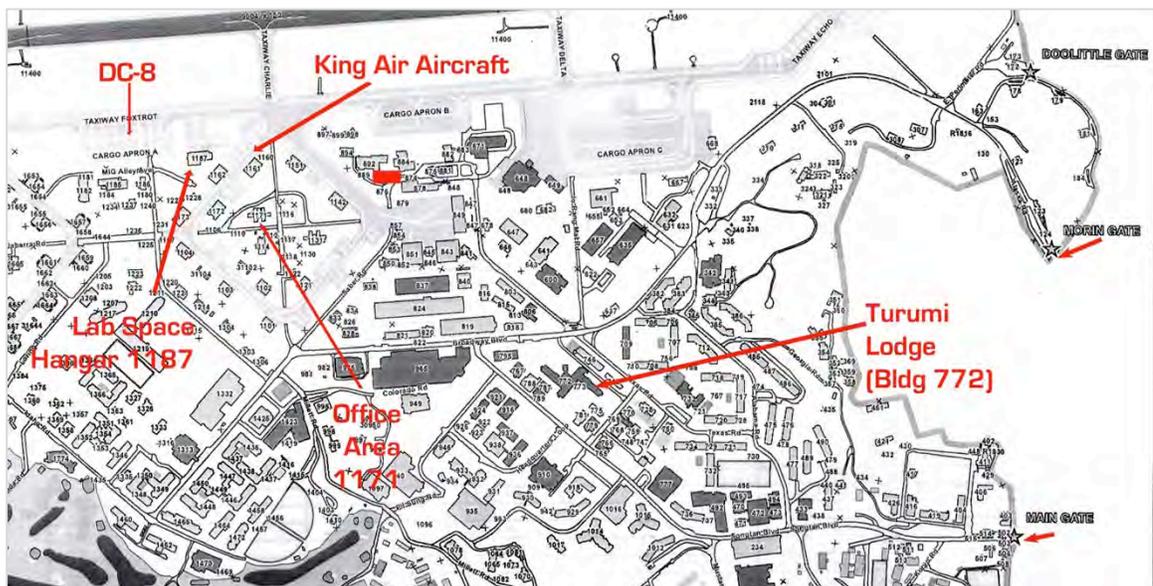


Fig. 10: Main Buildings used for KORUS-AQ



Fig. 11: Main Buildings used for KORUS-AQ (Satellite view)



Fig. 12: Bldg 1187, parking and entrance area (door by the truck)



Fig. 13: Bldg 1187 lab/storage space..



Fig 14.: Ramp view of Bldg. 1187.

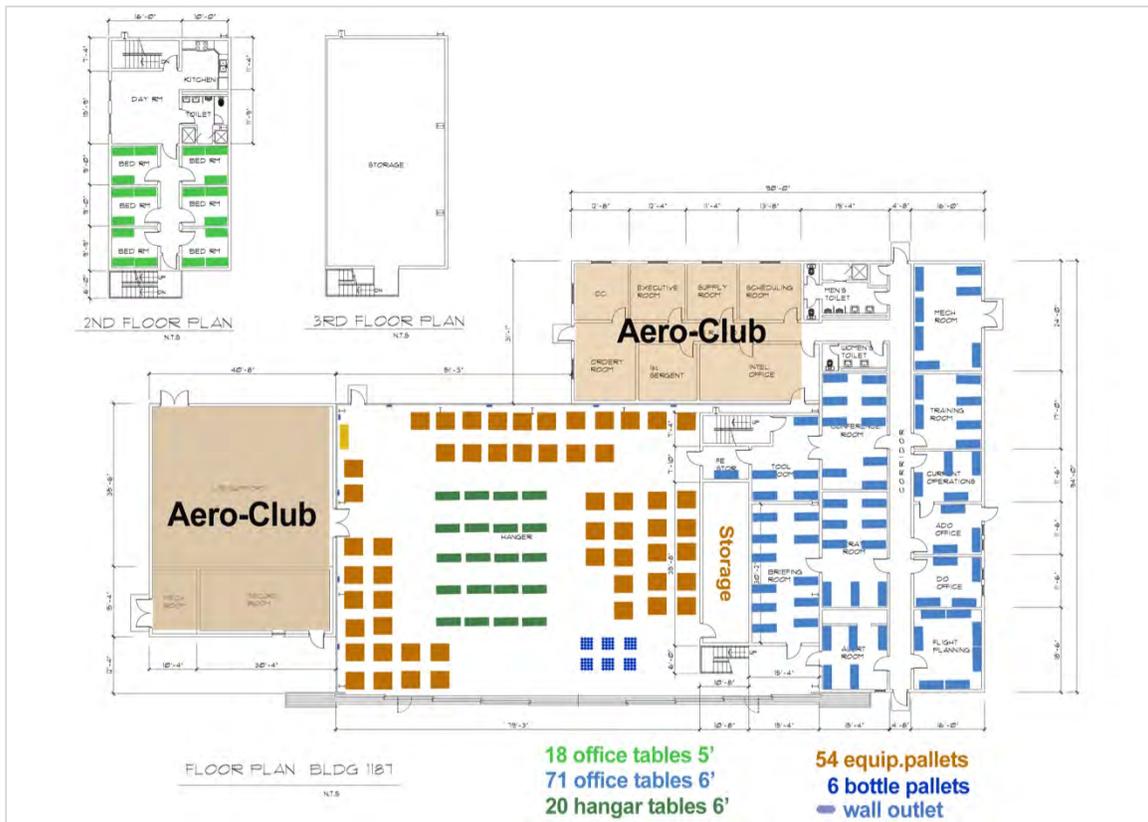


Fig 15: Bldg. 1187 diagram of planned KORUS-AQ office and hangar floor usage

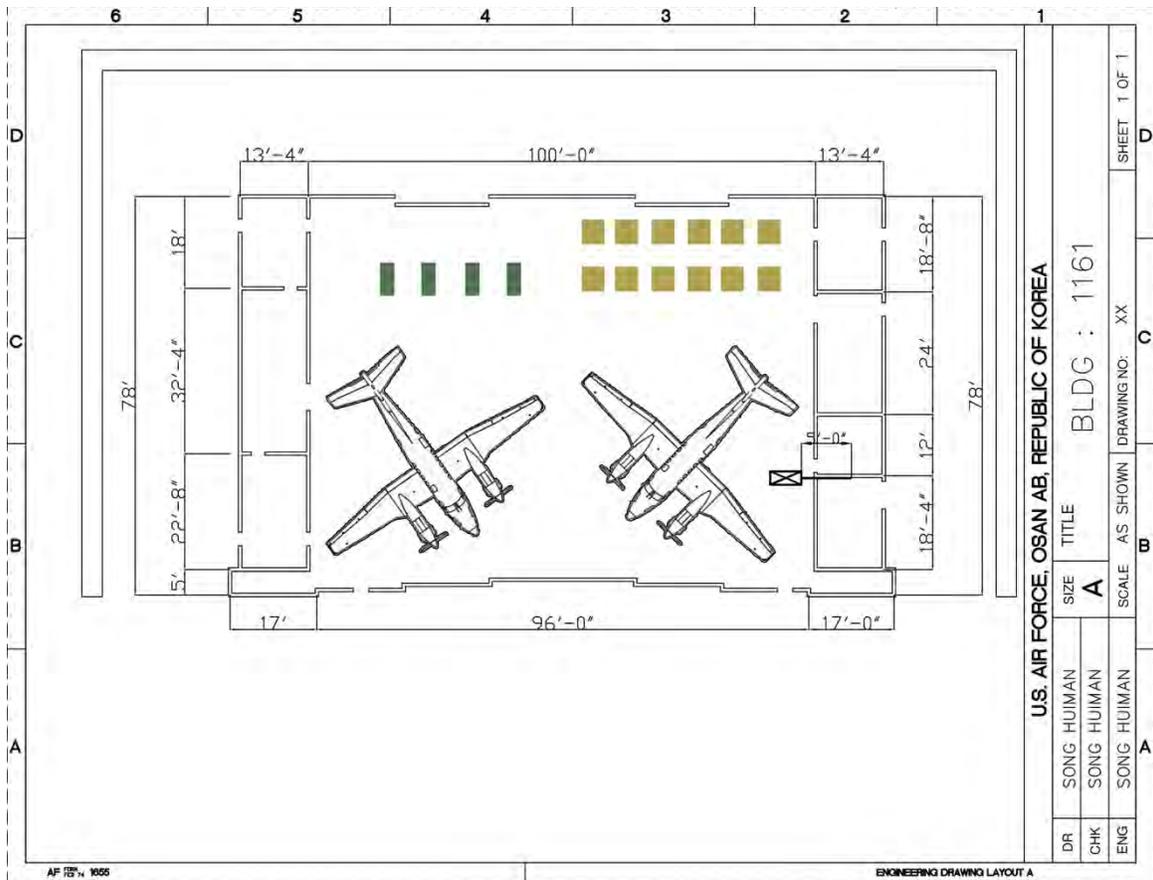


Fig. 16: Bldg 1161, King Air aircraft hangar floor, lab space diagram.



Fig. 17: Bldg 1161, King Air aircraft hangar floor, lab space.



Fig. 18: Bldg 1171: Office space & Meeting Space

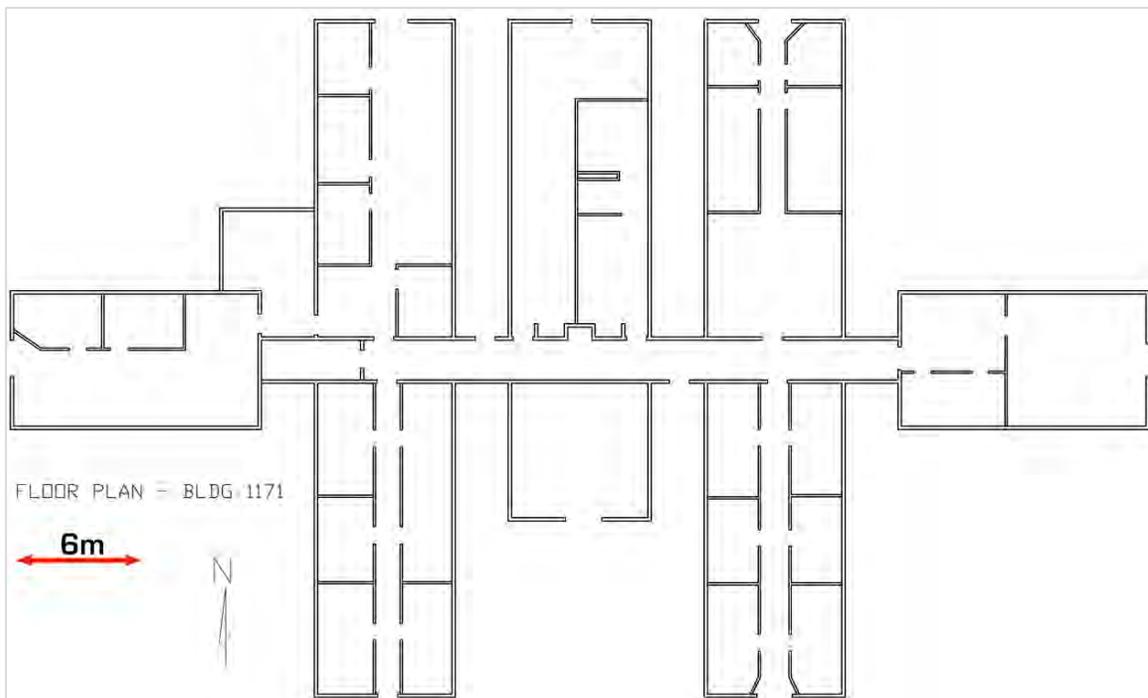


Fig. 19: Bldg 1171: Office space & Meeting Space layout.

Walking to/from Main Gate

Osan AB is very pedestrian and bicycle friendly with crosswalks and bike lanes well delineated. The walking distance from the Main gate to the Turumi lodge is about half-mile, and the distance from the Turumi lodge to the KORUS0AQ operations area is also about half-mile. Figures below show in blue the most direct route in between points of interest for the mission.

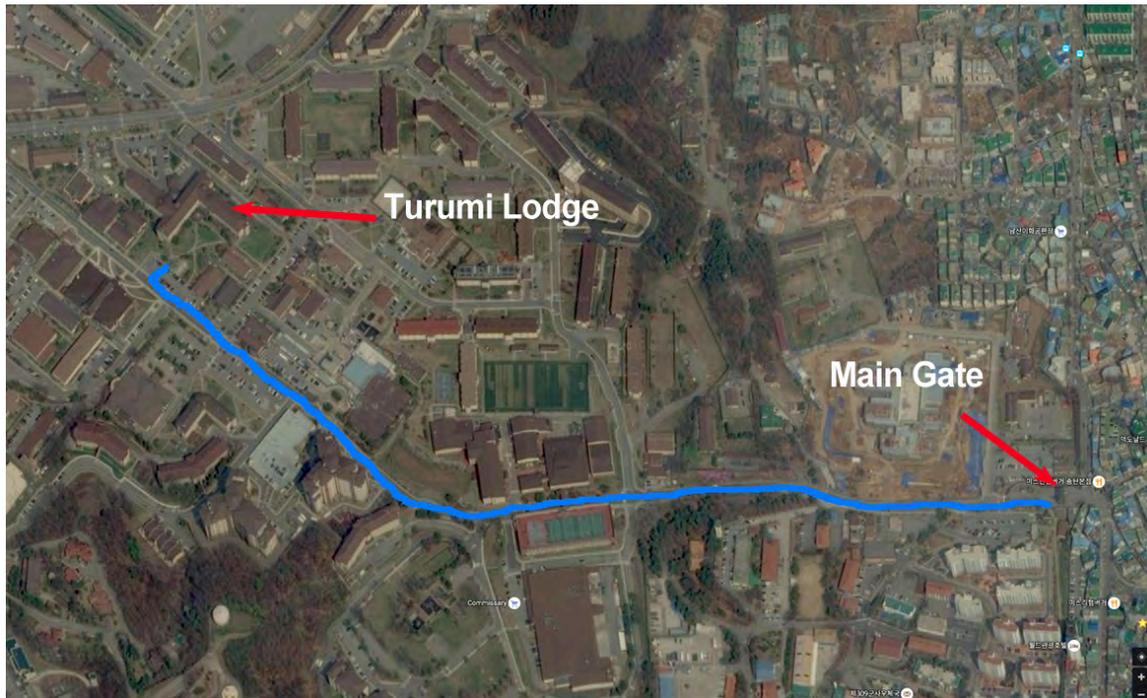


Fig. 20: Walking path from Turumi Lodge (rear entrance) to Main gate.

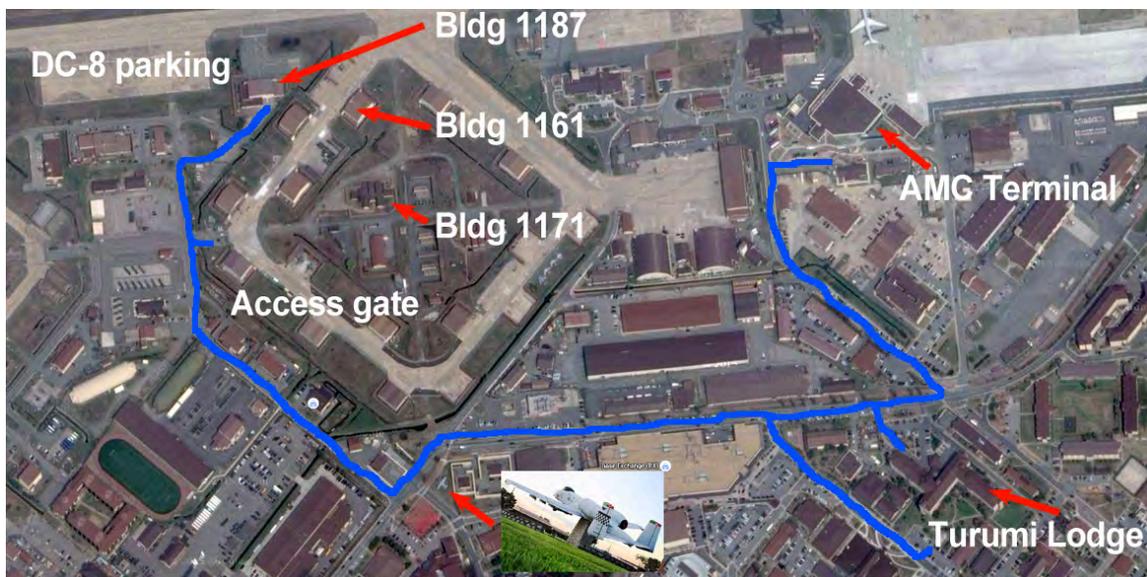


Fig. 21: Walking path from Turumi Lodge to KORUS-AQ operations

Social Media

- Mission RSS Feed:
- <https://espo.nasa.gov/home/korus-aq/daily-schedule/rss.xml>
- (Short URL: <https://goo.gl/nSRvAj>)
- Twitter: https://twitter.com/korus_aq
- Facebook: <https://www.facebook.com/sciflychannel>

Weather Averages

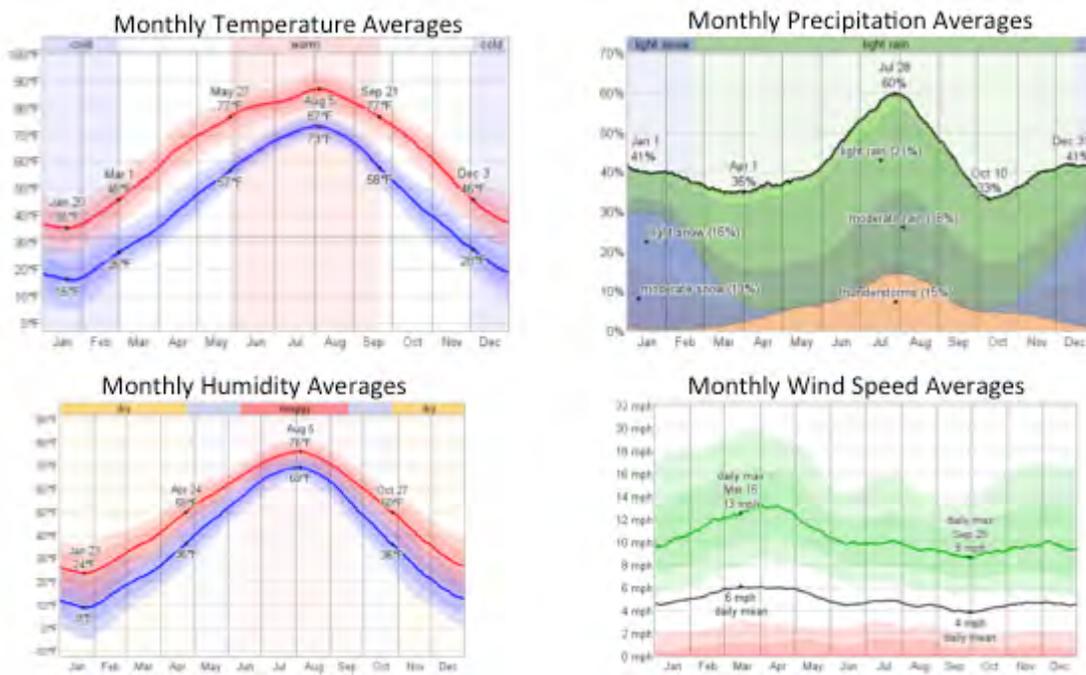


Fig. 22: Yearly weather averages

Links of Interest

KORUS-AQ Mission website:

KORUS-AQ Mission Schedule: <https://espo.nasa.gov/home/korus-aq/calendar>

51st Force Service Support Group: <http://www.51fss.com/Odr.html>

Osan Air Base: <http://www.osan.af.mil/>

Osan AB phonebook:

<http://www.osan.af.mil/search/generalsearch.asp?q=base+phonebook&btnG.x=0&btnG.y=0&site=Osan>

ITT Bus Facebook page: <https://www.facebook.com/notes/osan-passenger-terminal/bus-schedule/728013533981545/>

Osan AB Facilities and Amenities Open to KORUS-AQ Personnel

Shopping

Osan AB is conveniently located with many shops, restaurants, shopping centers and supermarkets located just outside the Main gate. On base, we have access to ALL of the facilities indicated below *with the exception* of the Commissary (groceries) Osan Exchange Mall Main Store (similar to a Target or Wal-Mart in the US), and the Osan Military Clothing. We can use the Osan Express which is similar to a convenience store like a 7-Eleven. Most businesses on base accept either Korean Won or US dollars.

US civil servants have been approved to shop at the commissary and Osan Main Store, please contact ESPO upon arrival for further instructions.

ATM Locations

ATMS –dispensing both, US dollars and Korean Won, are located at several places on base including: The Turumi lodge lobby, the BX, and the enlisted club restaurant.

Dining

KORUS-AQ personnel has access to all of the dining facilities on base such as the E-Club, officer club, food court, fast food chain restaurants, etc.

Fitness Center

The fitness center is located in building 1423 and opens 24 hours/7 days a week, however, for KORUS-AQ personnel it is only available during hours when there is a person at the counter. Must show 37EK at the entrance.

0500 – 2200 Mon-Fri

0800 – 1700 Sat, Sun, & Holidays

Local Tours

The Information Tickets & Travel office (ITT) has many options available for tourism around Korea, and these are usually cheaper than ones offer outside the base. For more information see their website at <http://www.51fs.com/Itt.html>

