KORUS-AQ Fall AGU Science Team Meeting
15 December 2015

Agenda

Detailed Mission Schedule

Transit Flight Plans

Open Issues

Shipping Update

Registration

Osan Air Base Logistics

(Comments and questions from participants are welcome throughout the meeting)

February 2016

Sun	Mon	Tue	Wed	Thu	Fri	Sat
31	1	2	3	4	5	6
7	8	9	10	11	12 **Deadline for Sea shipment items to Palmdale**	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	1	2	3	4	5

March 2016

Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	29	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2

CEAS, COLAS, DACOM, DLH, NOxyO$_3$, DIAL Install Begins

Instrument Upload

Aircraft Access

Lab Access Only

SAGA, AVOCET, ATHOS, LARGE Install Begins

K-AMS, K-SP2, K-CCN, HD-SP2, CAMS, HR-AMS Install Begins

Instrument Upload

Aircraft Access

April 2016

Sun	Mon	Tue	Wed	Thu	Fri	Sat
27	28	29	30	31	1	2
3 Lab Access Only	4 Instrument Upload	5 4STAR, CAFS, K-CIMS, TD-LIF, WAS, CIT-CIMS Install Begins	6	7 PTR-MS, K-PTR-MS, GT-CIMS Install Begins	8	9 Aircraft Access
10 Lab Access Only	11 Instrument Upload	12	13 Lidar Calibrations	14	15	16 Aircraft Access
17 Lab Access Only	18 Shakedown Flight	19	20	21 Test Flight #1	22 Sea Shipment Arrives	23 Aircraft Access
24 Lab Access Only	25 Test Flight #2	26 Pack Day	27 Air Shipment Departs	28 Hard Down Day	29 Transit to Korea	30

May 2016

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
Unpack	Media Day	First Possible Science Flight	Air Shipment Arrives		Latest chance for Hard Down Day	
8	9	10	11	12	13	14
15	16				20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4

Campaign Expectations:

130 Local Science Flight Hours (DC-8)
120 Local Science Flight Hours (LaRC King Air)
42 Operational Days for possible science flights
16-17 Flight Days
5-6 Hard Down Days
19-21 Planning/Maintenance Days

June 2016

Sun	Mon	Tue	Wed	Thu	Fri	Sat
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	1	2

- 12: Last possible day for science flight
- 13–14: Pack Day
- 14: Transit to Palmdale
- 15–16: Hard Down Day / Aircraft Access
- 17: SARP Flight #1
- 18: SARP Flight #2
- 18: Download begins
- 19–20: Download
- 21: ATom access and upload begins

Transit Flight Plans

The transit from Palmdale to Osan will be conducted on the following schedule:

Stage 1 – Palmdale to Anchorage (~5 hours)
DC-8 Crew Swap (~2 hours, with power to instruments maintained)
Stage 2 – Anchorage to Osan Air Base (~8 hours)

-Current expected takeoff from Palmdale is 0600 (local) on 29 April
-Flights will be at cruise altitude, with the exception of a descent over Rikubetsu (TCCON) and missed approach at Memanbetsu airport.
-Overpass of TCCON is estimated to be at 0200 UTC
-Arrival at Osan is expected to be after 0400 UTC (1300 local)

Open Issues

Waiver for travel in excess of 30 continuous days

The Langley travel office is in communication with the travel office at NASA HQ. The initial conversation is positive, but we are still waiting on a final ruling. We also hope this ruling will apply across all NASA centers.

Transit cargo space on the DC-8 for experimenters

This is still being determined, but investigators should keep expectations low.

Open Issues (cont.)

Registrations on the ESPO website need to be completed

Location	Completed	Missing	Incomplete
Palmdale	116	91	19
Osan	161	95	30

*These numbers only account for team members that have been identified and emailed

Specific Travel Dates

With release of the detailed calendar, it is important that teams enter travel dates that are consistent with the manpower needs described in their proposals.

Open Issues (cont.)

Family and Friends visiting Korea

Some team members may be joined by spouses, family members, or significant others. Will it be possible for them to enter Osan Air Base? If so, will the process be the same as for team members?

Shipping

KORUS-AQ Mission Website
Regularly Updated with Shipping and POC information

Shipping

Registration Help
Instrument Teams
Participants
Mission Planning
Science
Logistics
Shipping
Travel Contract
Shared Files
Platforms
Photos
Meetings

Add to Calendar
Add Daily Schedule Entry
Add Daily Forecast Entry
Add News Item
Submit Science Report
Upload Image
Upload Document
Add Mailing List

KORUS-AQ Shipping

Current as of: December 9, 2015

KORUS-AQ Shipping Overview

There will be two modes of shipping that will be utilized during the mission, a sea shipment and an air shipment.

Please return the completed sea shipment manifest to Steven Todorov by 1/16/16.
Please return the completed air shipment manifest to Steven Todorov by 3/4/16.

Palmdale to Osan AFB
Sea Shipment- All Items To Be Delivered to the PMD Hangar by February 12, 2016
The sea shipment is scheduled to arrive at Osan AB on 22nd of April. Some items that are classified as dangerous goods can not be shipped via aircraft and still others may be prohibitively expensive to do so. In either case we will need to arrange for the advance shipment of these items on this February shipment. Please make any advance arrangements to ship any required calibration gasses in this shipment.

Shipments to Palmdale

Please pack any fragile of sensitive equipment in hard shell cases with plenty of cushioning and avoid shipping loose items whenever possible. Clearly label all boxes with "KORUS-AQ" the instrument name, the PI's name, and contact mobile phone number. Before you ship your items to Palmdale, please email Steven Todorov and Karen Richards with the number, size and weights of each shipment. Include the expected arrival date and carrier information.

Shipping Point of Contact (POC) Info

ESPO Steven Todorov (steven.m.todorov@nasa.gov) (650) 996-9335
DC-8/Palmdale Karen Richards (karen.l.richards@nasa.gov) (661) 276-3675 / (661) 209-6569

Shipping Address - Palmdale CA
NASA Aircraft Operations Facility
2825 East Avanue P
Palmdale, CA 93550
Attn: (your name)/Karen Richards
(661) 276-3675

Palmdale to Osan AFB
Air Shipment- 28 APRIL to 5 MAY (TENTATIVE)
Please return the completed air shipment manifest to Steven Todorov by 3/4/16.

ESPO NASA

Shipping

Sea Shipment

Sea shipment **manifest** is due on **1/18/16**

All **items to be shipped** must be **in Palmdale by 2/12/16**

Sea Shipment Manifest

Instrument Name:	ABC Instrument	Email:	
Instrument POC:	John Q Researcher	Mobile:	

Case Number	Item Number	Item Description	Manufacturer	Model Number and Serial Number		Country of Manufacture	Estimated Value (US $)	Item Quantity	Total Value (US $)	Case Description	Case Dims Inches Length	Width	Height	Case Weight (pounds)
1	1	Osciliscope (Example)	Acme Manufacturing	Model:	ABC-123	USA	$1,000	4	$4,000	Black Plastic	48	24	18	100
				S/N:	987450984752098437									
	2	LED Monitor (Example)	Dell	Model:	Latitude 2430	China	$200	1	$200					
				S/N:	98374098347									
	3	Power Supply, 220v (Example)	El Acme Manufacturing	Model:	PS-210	Mexico	$500	2	$1,000					
				S/N:	123546EN-12KT									
	4	Hand Tool Kit (Example)	NA	Model:	NA	China	$300		$0					
				S/N:	NA									
	5	Box of Nitrile Glove (Example)	Sani-Glove Co.	Model:	34	China	$30	2	$60					
				S/N:	NA									
	6	Misc. Air Fittings (Example)	NA	Model:	NA	NA	$50	1	$50					
				S/N:	NA									
	7			Model:					$0					
				S/N:										
	8			Model:					$0					
				S/N:										
	9			Model:					$0					
				S/N:										
	10			Model:					$0					
				S/N:										
2	1			Model:					$0					
				S/N:										
	2			Model:					$0					
				S/N:										
	3			Model:					$0					
				S/N:										
	4			Model:					$0					
				S/N:										
	5			Model:					$0					
				S/N:										
	6			Model:					$0					
				S/N:										
	7			Model:					$0					
				S/N:										

Sea Shipment Manifest

Haz Mats

UN No. Or ID No.	Proper Shipping Name	Hazard Class	Packing Group (Subsidiary Risk)	Quantity and type of Packaging	Packing Instr.	Authorization	Manufacturer	Country of Manufacture	Cost	Unit Quantity	Total Unit Cost
UN 1002	AIR, COMPRESSED	2.2		1			Scott-Marin	USA	$500	1	$500
								USA			
								USA			
								USA			
								USA			
								USA			
								USA			
								USA			
								USA			
								USA			
								USA			
								USA			

DO NOT FILL IN THIS SECTION. ESPO WILL COMPLETE.

Air Shipment Manifest

Instrument Name:	ABC Instrument	Email:	
Instrument POC:	John Q Researcher	Mobile:	

Case Nu	Item Nu	Item Description	Manufacturer	Model Number and		Manufacture	Estimated Value	Item Qu	Total Value (US $)	Case Descrip	Case Dims Inches L e	W idt	H ei	Case Weight
1	1	Osciliscope (Example)	Acme Manufacturing	Model:	ABC-123	USA	$1,000	4	$4,000	Black Plastic	48	24	18	100
				S/N:	987450984752098437									
	2	LED Monitor (Example)	Dell	Model:	Latitude 2430	China	$200	1	$200					
				S/N:	98374098347									
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				S/N:	123546EN-12KT									
	4	Hand Tool Kit (Example)	NA	Model:	NA	China	$300		$0					
				S/N:	NA									
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				S/N:	NA									
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				S/N:	NA									
	7			Model:					$0					
				S/N:										
	8			Model:					$0					
				S/N:										
	9			Model:					$0					
				S/N:										
	10			Model:					$0					
				S/N:										
	1			**Model**					**$0**					
				S/N:										
	2			**Model**					**$0**					
				S/N:										

Air Shipment Manifest

Lithium Batteries as Cargo in 2016

Background

The 25th meeting of the ICAO Dangerous Goods Panel meeting (DGP/25), which was held in Montreal 19 – 30 October 2015, considered a number of proposals to address safety concerns associated with the carriage of lithium batteries as cargo, including:

- a total prohibition on the carriage of lithium ion batteries (UN 3480) as cargo on passenger aircraft;
- deletion of Section II of Packing Instructions 965 and 968;
- restricting the transport of lithium ion batteries to be at no more than 30% state of charge (SoC);

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Shipping Address - Palmdale CA
NASA Aircraft Operations Facility
2825 East Avanue P
Palmdale, CA 93550
Attn: (your name)/Karen Richards
(661) 276-3675

Palmdale to Osan AFB

Shipping to the PMD Hangar

All items to be shipped must be in Palmdale by **2/12/16**

Currently I am planning on shipping:

- 30 Pallets
- 120 cylinders of compressed gas

<u>This requires planning for receiving and staging prior to the shipment.</u>

Please email **Karen Richards** and **Steven Todorov** when you ship.

Return Shipping Dates

AIR SHIPMENT	6/21
SEA SHIPMENT	8/8

Consumables

Cryogens

Dry Ice	LN2
• SAGA • NOxyO3	• CIT-CIMS

Consumables

Zero Air and UHP Nitrogen Requests

Zero Air	UHP Nitrogen
• AMS* • DACOM/DLH • HR-ToF-AMS • CAFE	• HR-ToF-AMS • AMS* • CIT-CIMS • CAMS

Consumables

Gasses Procured in South Korea

The KORUS mission is providing UHP NI and Zero Air in steel cylinders.

I will be posting vendor information on the website for those wanting gasses in aluminum cylinders

Detailed Regulator and Adaptor Info is forthcoming

Shipping Point of Contact Information

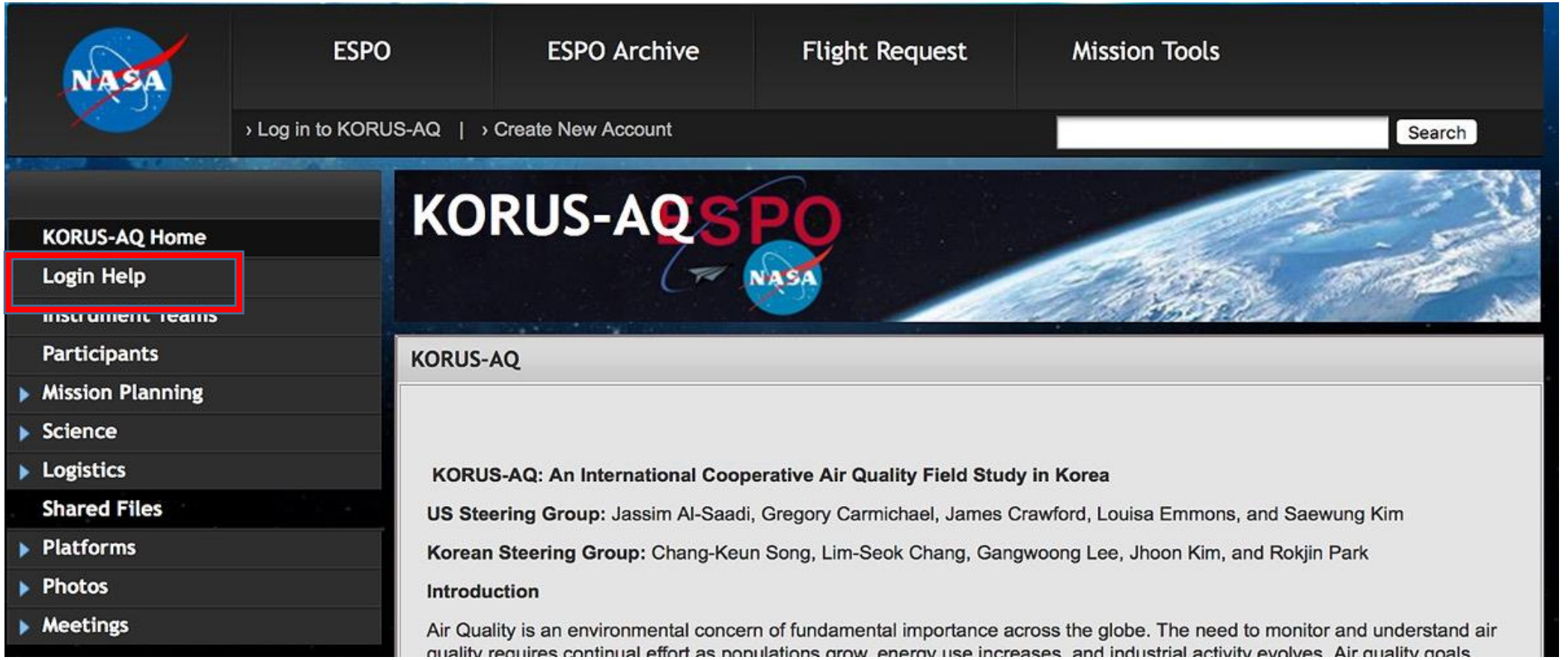
Steven Todorov
Earth Science Project Office
Steven.m.todorov@nasa.gov
(650) 996-9335

Mission Registration
Base Information
Logistics

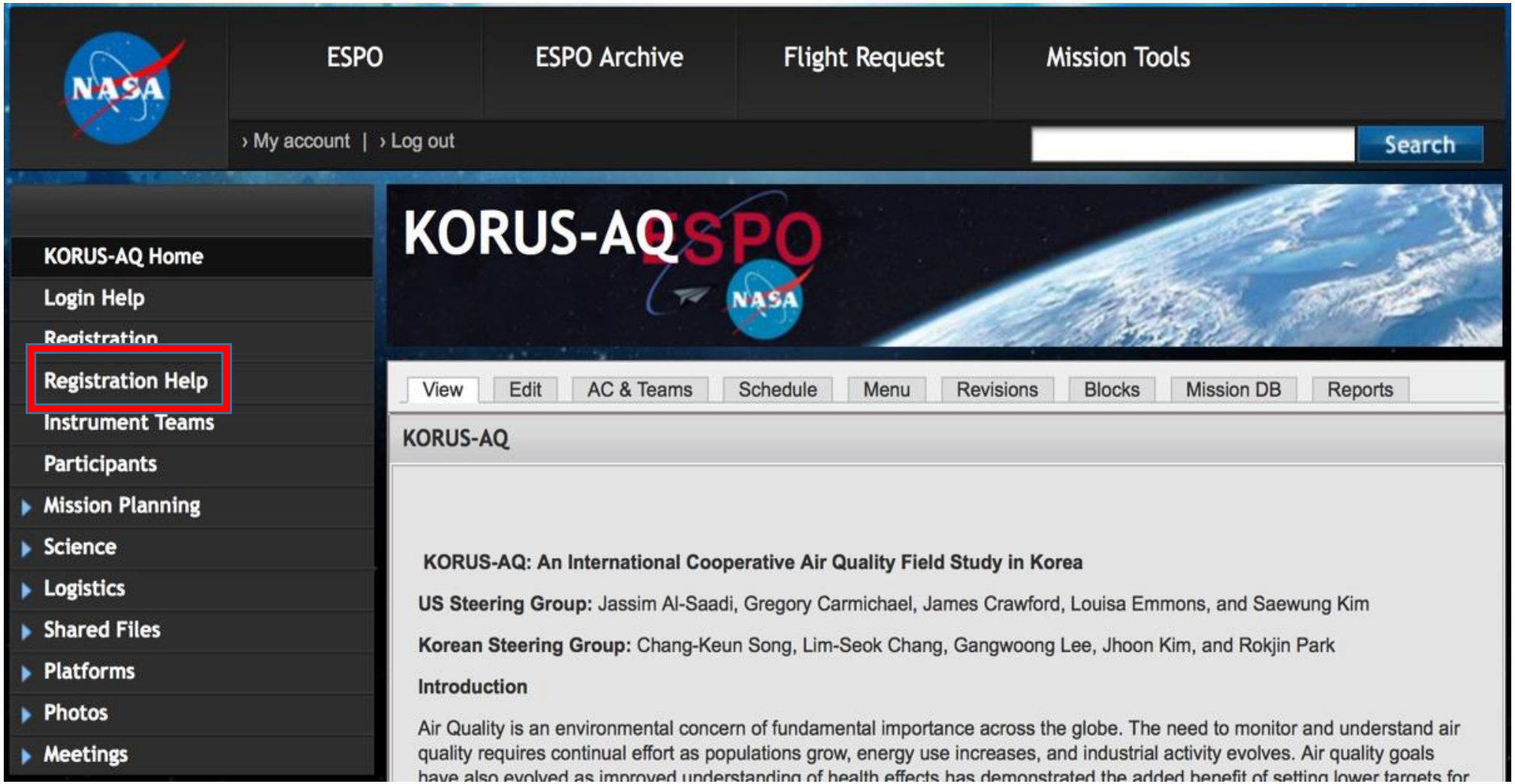
Earth Science Project Office

Jhony Zavaleta, Kent Shiffer, Steven Todorov

ESPO Website Mission Registration



ESPO Website Mission Registration



ESPO Website Registration

- Provide separate travel information for specific activities:
  - Integration (March 21st – April 29th)
    - Armstrong Flight Research Center (AFRC) in Palmdale, CA
  - Deployment (April 30 – June 14)
    - Osan Air Base, Republic of Korea
  - De-integration (June 14 – June June 20)
    - Armstrong Flight Research Center (AFRC) in Palmdale, CA
- Dates should indicate arrival date and departure date at the site.
  - (*NOT the departure and arrival date from your starting point)*

ESPO Website Registration

- Provide separate travel information for specific activities:
  - NO TRAVEL
    - No information is requested.
  - PLANNED
    - All travel details are requested
  - CONFIRMED
    - All travel details are requested
  - CONTINGENCY
    - Only information for base access is requested. No travel plans are requested.

Citizens from Designated Countries

- Need to identify specific escorts no later than ***February 1st, 2016***
- Citizens from Designated countries: **must be escorted at all times** and **cannot** stay on base.

OVERDUE. Base access requests go out in January.

ESPO Website Registration

- **Korean Nationals**
  - USFK Form 82-E
  - Korean ID (KID)/Passport* scan
  - Passport style photo for badging.

  **If visiting AFRC*

- **All others ****
  - USFK Form 82-E
  - Passport Scan
  - Passport style photo for badging.

** Retired US military: No Osan ID card to be issued, notify ESPO, name will be submitted to DBIS.

If planning to bring a vehicle, include vehicle information:

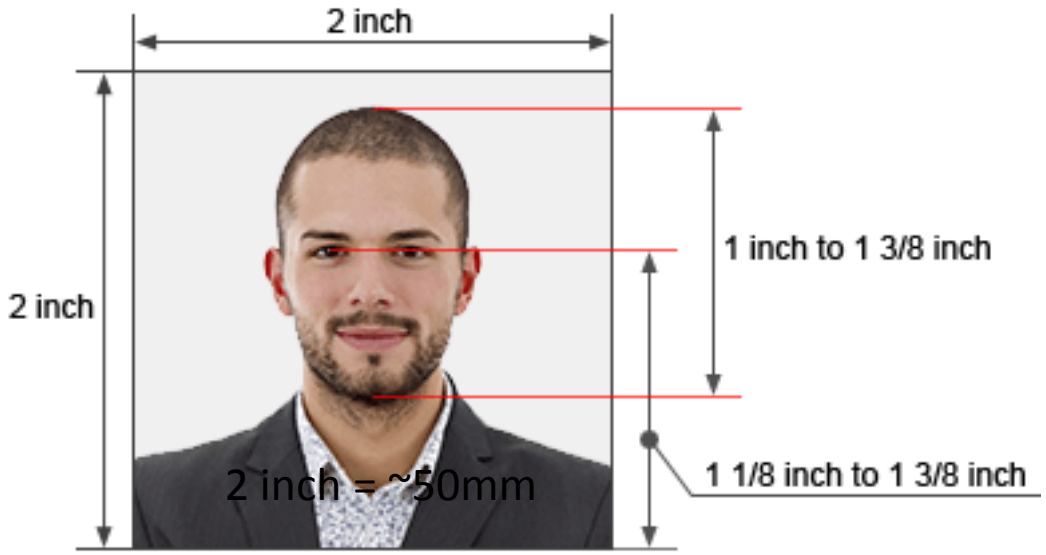
- Make, model, year, Registration number, & Insurance policy number

ESPO Website Registration

- MUST upload requested photographs/scans (head/face - passport style)

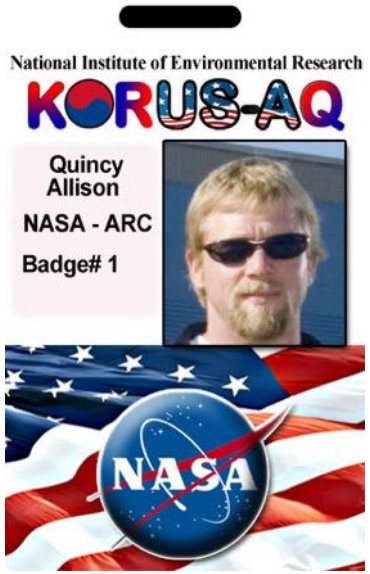
Passport Scan

Badge Photo



Osan Air Base Access

- Identification while on base:
  - Base Issued ID
  - KID or passport
  - ESPO issued mission badge



  - US citizens can escort up to **3 people** and **one vehicle**.

Notes

- Ensure that information is entered accurately
  - Watch out for Default Values (i.e. Citizenship)

Mission Updates & 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

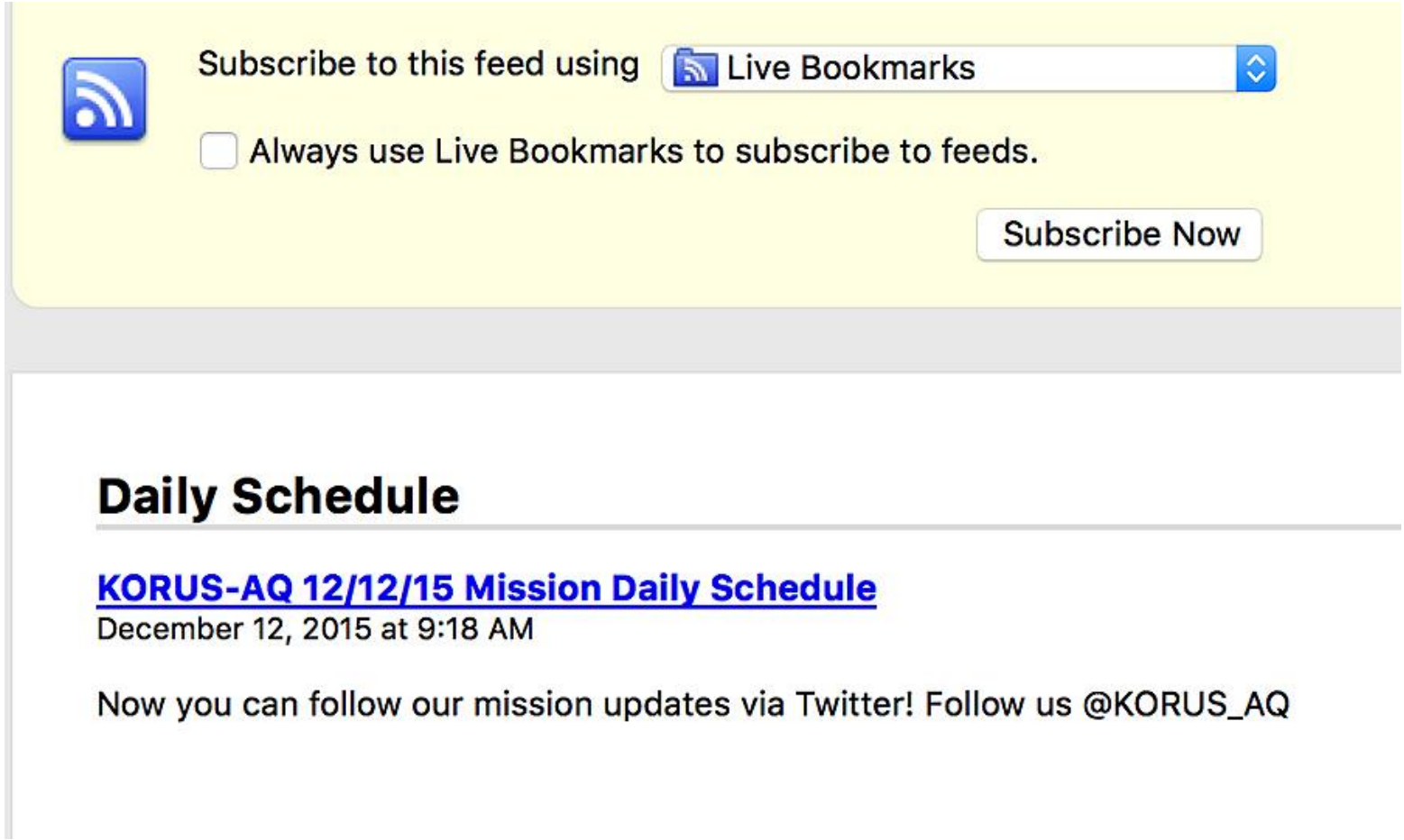
ESPO NASA

More Information

- ESPO will distribute a comprehensive *Traveler Information Package* before the deployment ***(End of March, 2016)***. Check website for information.

Extra slides

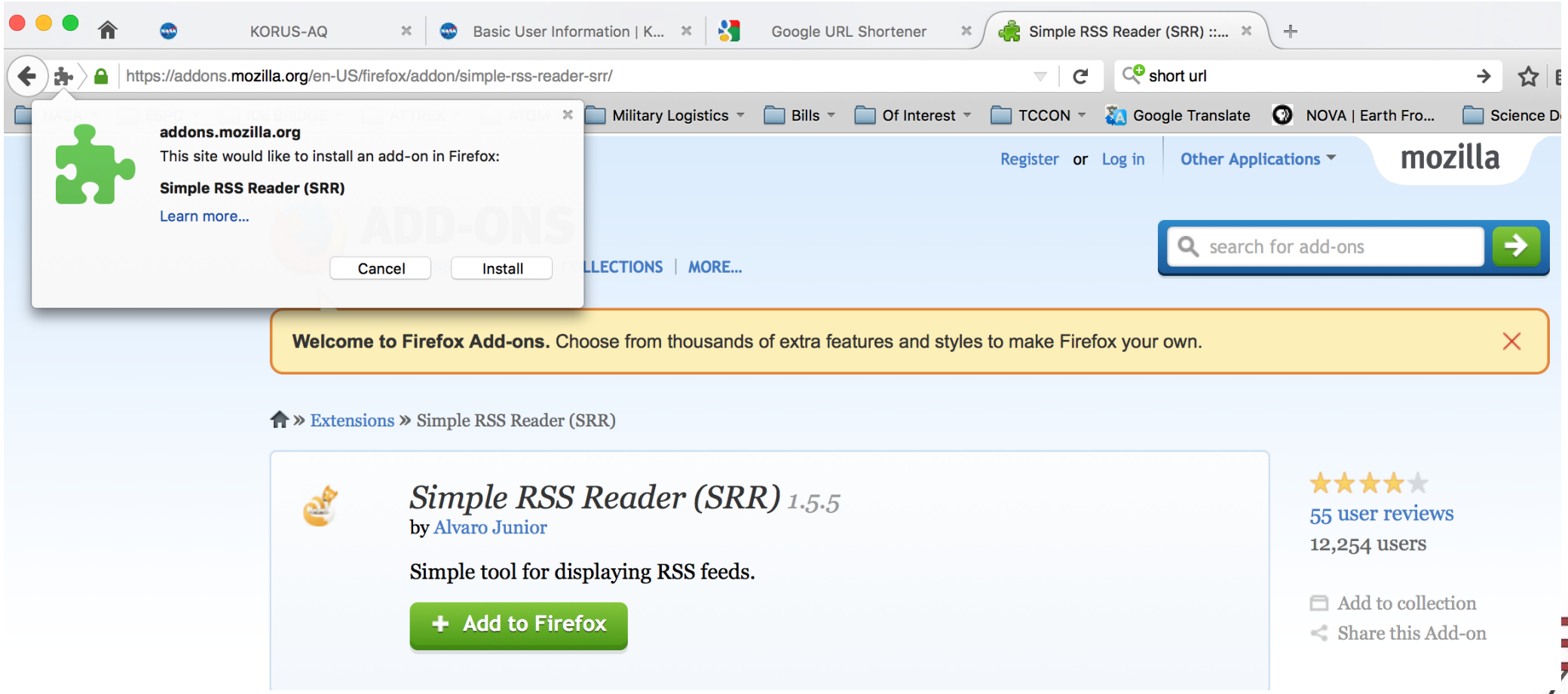
https://espo.nasa.gov/home/korus-aq/daily-schedule/rss.xml



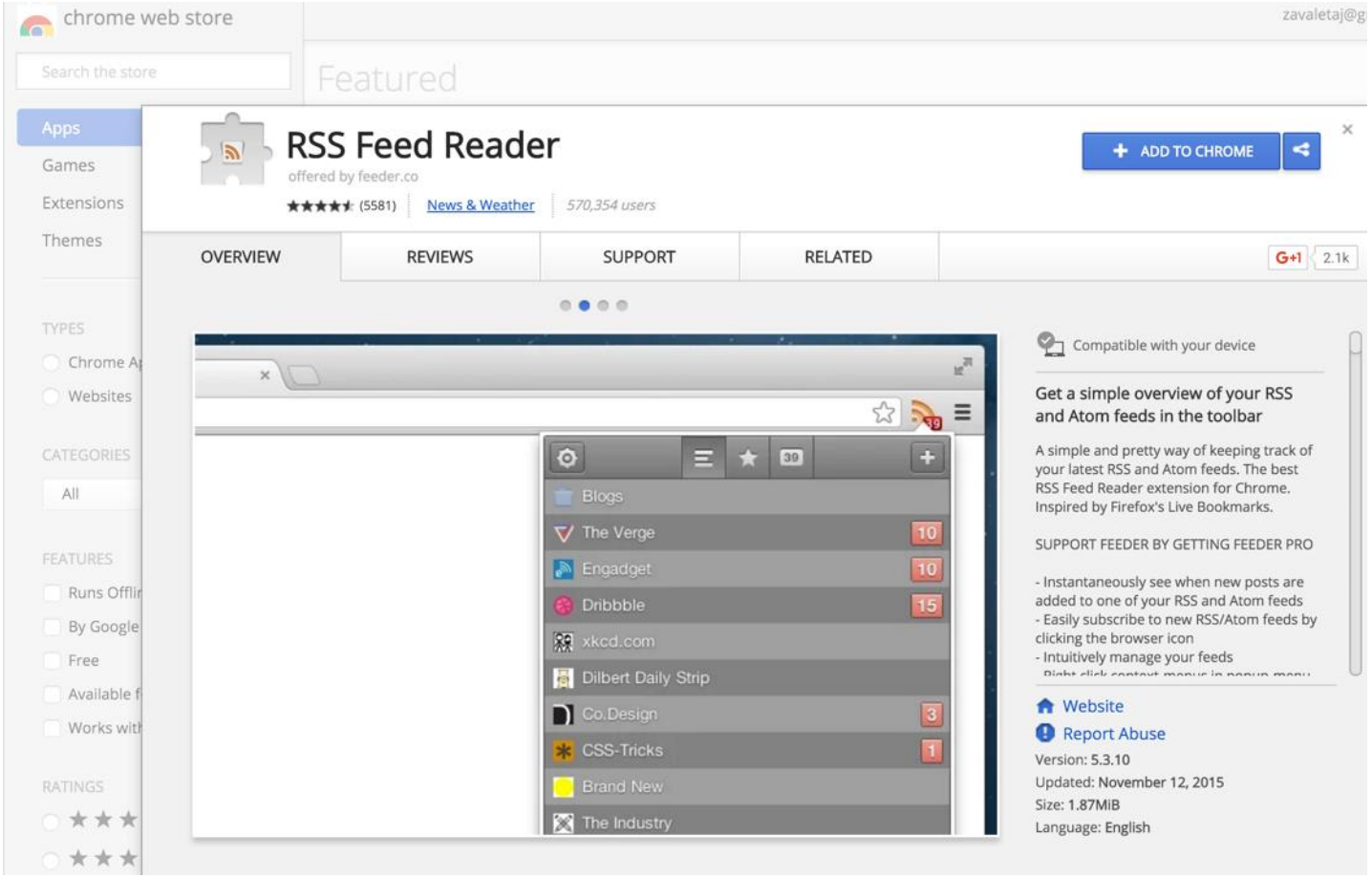
- SAFARI


espo.nasa.gov/home/korus-aq
Dashboard - M... Tools Suite
Google Translate
NASA
ESPO
Ice Bridge
KORUS-AQ
Bills
Of Interest
Military Logistics
NOVA | Earth From Spac
Inbox – zavaletaj@gmail.com
KORUS-AQ
ESPO Calendar | NASA Airborn...
Mission Updates (@KORUS_AQ...
XFINITY Connect: Inbox
Daily Schedule
KORUS-AQ 12/12/15 Mission Daily Schedule
Now you can follow our mission updates via Twitter! Follow us @KORUS_AQ
NASA Ames Research...
NASA Small Satellites to Demonstrate Swarm Communications and Autonomy
NASA's two Nodes small satellites hitched a ride to the International Space Station on the fourth Orbital ATK cargo mission, which launched on Dec. 3.
NASA Ames Research...
NASA Invites Media to Tour Quantum Computing Lab, Talk to Experts
For the first time, NASA is inviting members of the news media to tour the Quantum Artificial Intelligence Laboratory (QuAIL) located at the NASA Adva...
NASA Ames Research...
First Steps Toward Drone Traffic Management
NASA recently successfully demonstrated rural operations of its unmanned aircraft systems (UAS) traffic management (UTM) concept, integrating operator
Subscriptions
KORUS-AQ Home
Login Help
Registration
Registration Help
Instrument Teams
Participants
Mission Planning
Science
Logistics
Shared Files
Platforms
Photos
Meetings
Add to Calendar
Add Daily Schedule Entry
Add Daily Forecast Entry
Add News Item
Submit Science Report
Upload Image
Upload Document
Add Mailing List
Daily Schedule
Saturday, December 12, 2015
Now you can follow our mission updates via Twitter! Follow us @KORUS_AQ
Past Daily Schedules
KORUS-AQ ESPO
NASA
View
Edit
AC & Teams
Schedule
Menu
Revisions
Blocks
KORUS-AQ
KORUS-AQ: An International Cooperative Air Quality Field Study in Korea
US Steering Group: Jassim Al-Saadi, Gregory Carmichael, James Crawford, Louisa Emmons,
Korean Steering Group: Chang-Keun Song, Lim-Seok Chang, Gangwoong Lee, Jhoon Kim,
Introduction
Air Quality is an environmental concern of fundamental importance across the globe. The need
quality requires continual effort as populations grow, energy use increases, and industrial activity
have also evolved as improved understanding of health effects has demonstrated the added be
exposure of humans and ecosystems to ozone, fine particles, and other toxic pollutants in the a
primarily on ground-based observations to diagnose regions of poor air quality and modeling to
In recent years, satellites in low Earth orbit (LEO) have demonstrated the ability to observe the
quality. However, the impact of LEO observations has been limited by their infrequent nature an
respect to source distributions and timing (approximately once per day at horizontal scales of te
observe the details of air quality events that can develop over timescales of a single day. The pr
observations as a vantage point for studying air quality can overcome these problems by provid
throughout the day and at higher spatial resolution by taking advantage of longer viewing times.
limited viewing domain, preventing global observations with a single satellite. This has led to an
constellation of satellite instruments focused on air quality over Asia, North America, and Europe
provide hourly observations of those regions throughout the day at horizontal resolutions of bett
GEO atmospheric chemistry instruments expected to launch in 2018-2019 include GEMS by the
the US, and Sentinel-4 by Europe (Figure 1). Also, with its planned launch in 2016 the Sentinel-
begin providing the next generation of once-daily global measurements from LEO at horizontal
missions.
TEMPO (hourly)
Sentinel-4 (hourly)
GEMS (hourly)
Sentinel-5P (once per day)
60 50 40 30 20 10 0 -10 -20 -30 -40
-180 -150 -120 -90 -60 -30 0 30 60 90 120 150 180
Figure 1. Global air quality satellite constellation showing expected fields of view for hourly geostationary observations from satellites positioned over North America (NASA-TEMPO), Europe (ESA-Sentinel-4), and Asia (KARI-GEMS). These observations will be supplemented by daily global views from TROPOMI onboard ESA's LEO satellite, Sentinel-5P. The background image is the global distribution of NO_2 as seen from space

Firefox


KORUS-AQ
Basic User Information | K...
Google URL Shortener
Simple RSS Reader (SRR) ::...
https://addons.mozilla.org/en-US/firefox/addon/simple-rss-reader-srr/
short url
Military Logistics
Bills
Of Interest
TCCON
Google Translate
NOVA | Earth Fro...
addons.mozilla.org
This site would like to install an add-on in Firefox:
Simple RSS Reader (SRR)
Learn more...
Cancel
Install
Register or Log in
Other Applications
mozilla
search for add-ons
Welcome to Firefox Add-ons. Choose from thousands of extra features and styles to make Firefox your own.
» Extensions » Simple RSS Reader (SRR)
Simple RSS Reader (SRR) 1.5.5
by Alvaro Junior
Simple tool for displaying RSS feeds.
+ Add to Firefox
55 user reviews
12,254 users
Add to collection
Share this Add-on

Chrome


chrome web store
Search the store
Featured
Apps
Games
Extensions
Themes
TYPES
Websites
CATEGORIES
All
FEATURES
RATINGS
RSS Feed Reader
offered by feeder.co
(5581)
News & Weather
570,354 users
ADD TO CHROME
OVERVIEW
REVIEWS
SUPPORT
RELATED
G+1
2.1k
Blogs
The Verge
Engadget
Dribbble
xkcd.com
Dilbert Daily Strip
Co.Design
CSS-Tricks
Brand New
The Industry
Compatible with your device
Get a simple overview of your RSS and Atom feeds in the toolbar
A simple and pretty way of keeping track of your latest RSS and Atom feeds. The best RSS Feed Reader extension for Chrome. Inspired by Firefox's Live Bookmarks.
SUPPORT FEEDER BY GETTING FEEDER PRO
- Instantaneously see when new posts are added to one of your RSS and Atom feeds
- Easily subscribe to new RSS/Atom feeds by clicking the browser icon
- Intuitively manage your feeds
Website
Report Abuse
Version: 5.3.10
Updated: November 12, 2015
Size: 1.87MiB
Language: English

IE

To subscribe to a feed using Internet Explorer

1. Open Internet Explorer by clicking the Start button . ...
2. Go to the website that offers a feed.
3. Click the Feeds button to view feeds on the webpage. ...
4. Click a feed (if more than one is available). ...
5. Click Subscribe to this feed.

More items...

How to use RSS feeds in Internet Explorer 9 - Windows

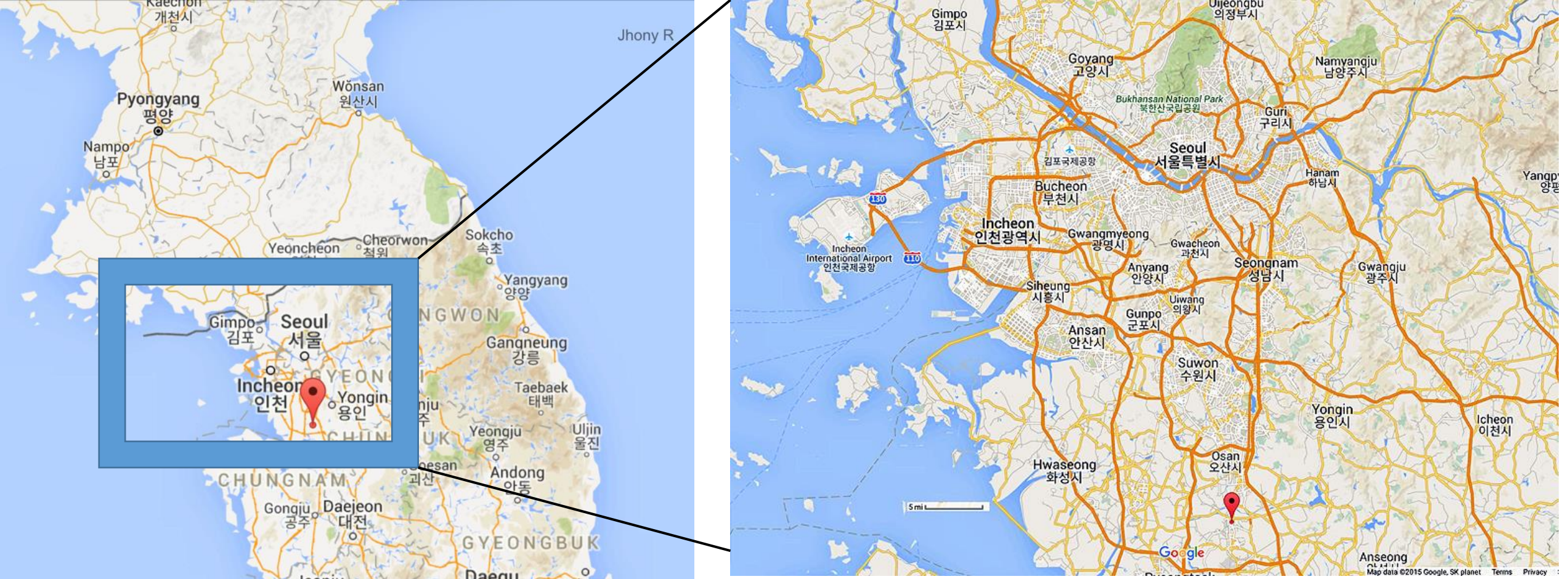
windows.microsoft.com/.../how-to-use-**rss**-feeds-in-**inte**... Microsoft Windows

Feedback

Orientation - Osan Air Base

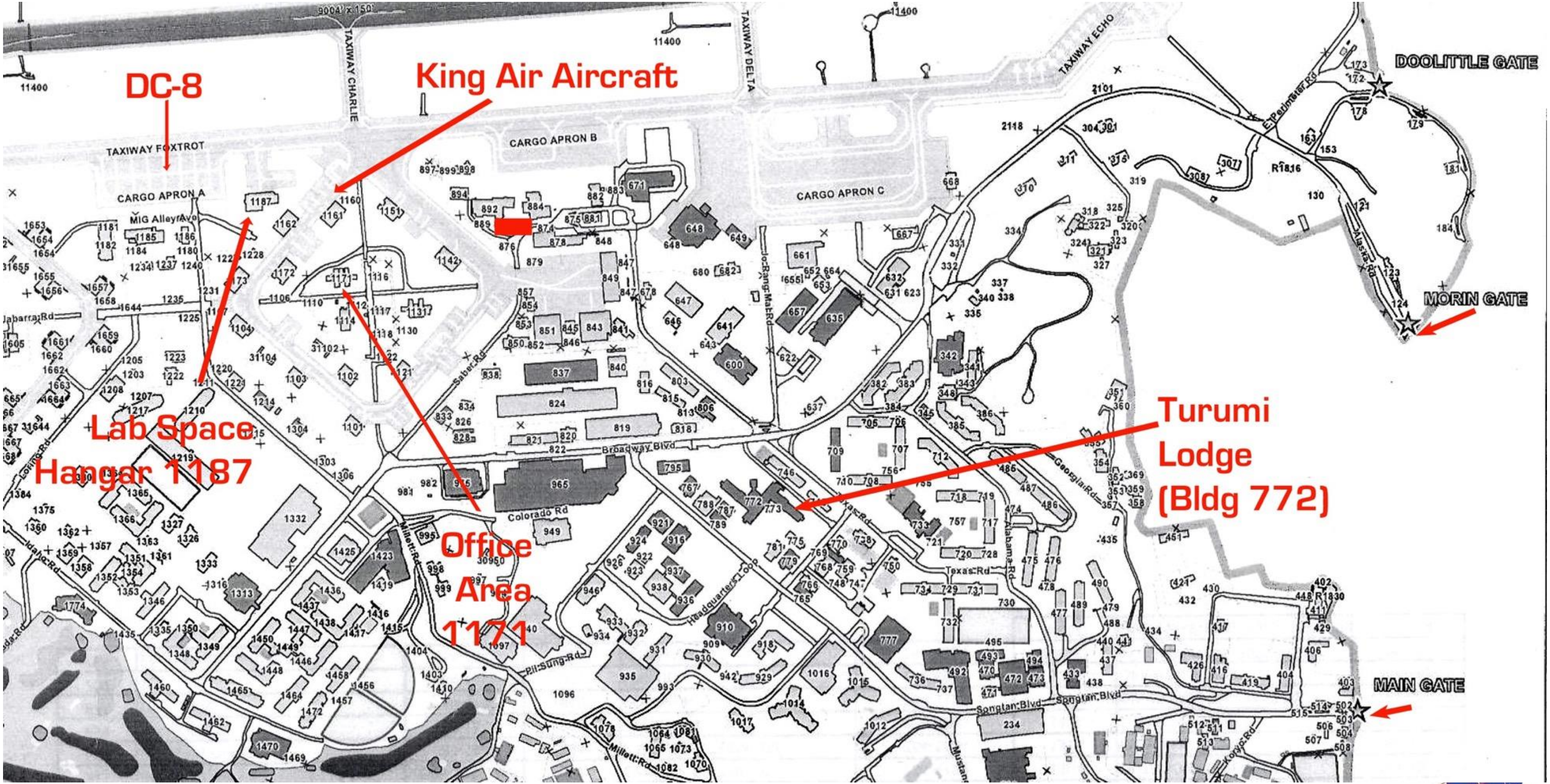
Earth Science Project Office

Jhony Zavaleta, Kent Shiffer, Steven Todorov



5 miles

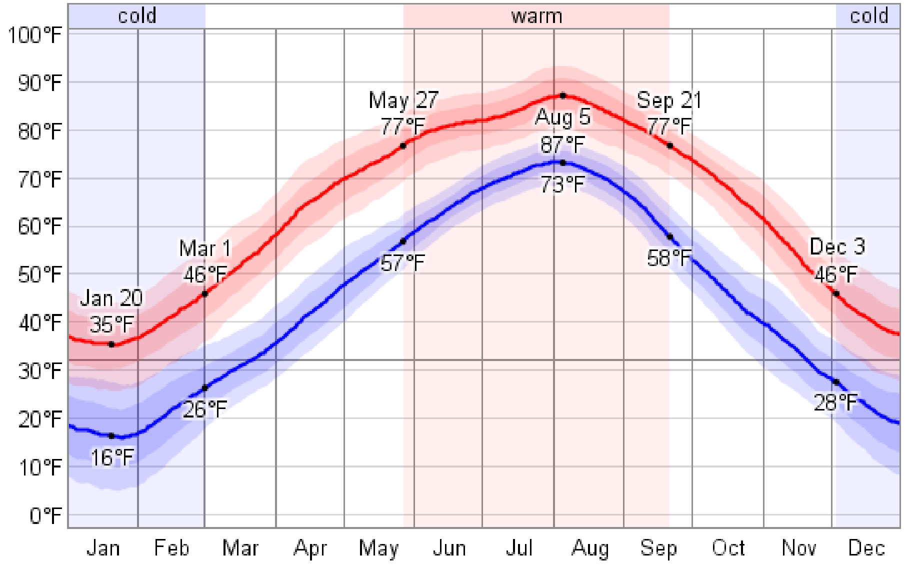
ESPO
NASA


DC-8
King Air Aircraft
Lab Space
Hangar 1187
Office
Area
1171
Turumi
Lodge
(Bldg 772)
DOOLITTLE GATE
MORIN GATE
MAIN GATE
TAXIWAY FOXTROT
TAXIWAY CHARLIE
TAXIWAY DELTA
TAXIWAY ECHO
CARGO APRON A
CARGO APRON B
CARGO APRON C
9004' x 150'
Broadway Blvd
Colorado Rd
Songtan Blvd
Texas Rd
Alabama Rd
Georgia Rd
Alaska Rd
Headquarters Loop
Millett Rd
Pil Sung Rd
Saber Rd
MIG Alley Ave

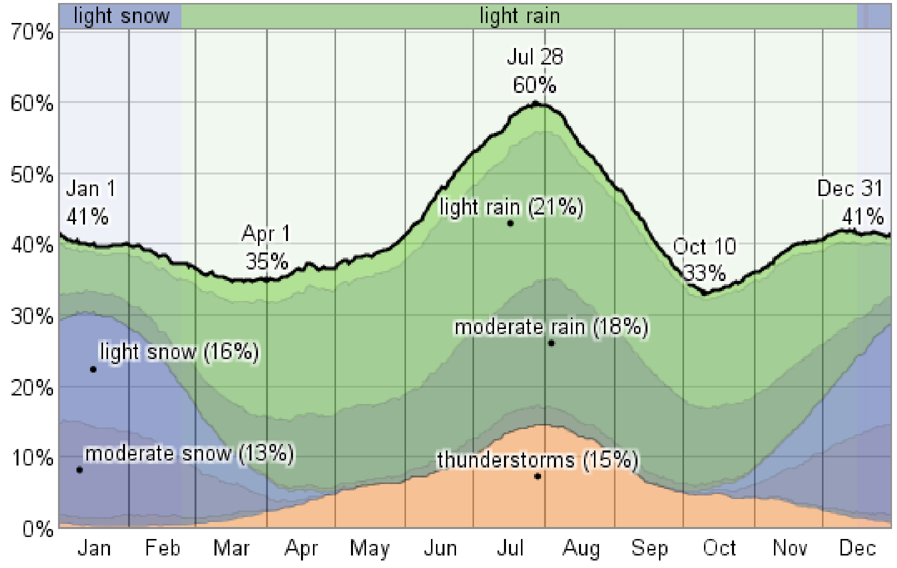

DC-8
Parking
King Air Parking
Lab Work
Area
Office Work Area
Turumi
Lodge
Aquatic Frontier
500ft / 152m
Google

Osan AB - Weather Averages

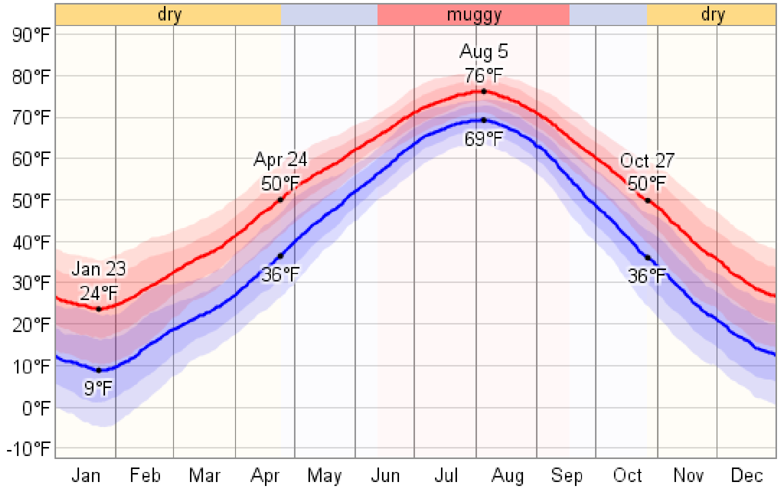
Monthly Temperature Averages



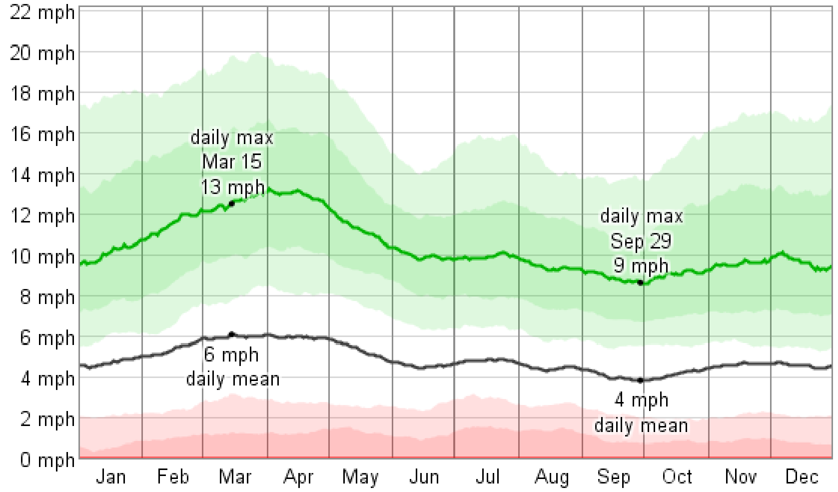
Monthly Precipitation Averages



Monthly Humidity Averages



Monthly Wind Speed Averages

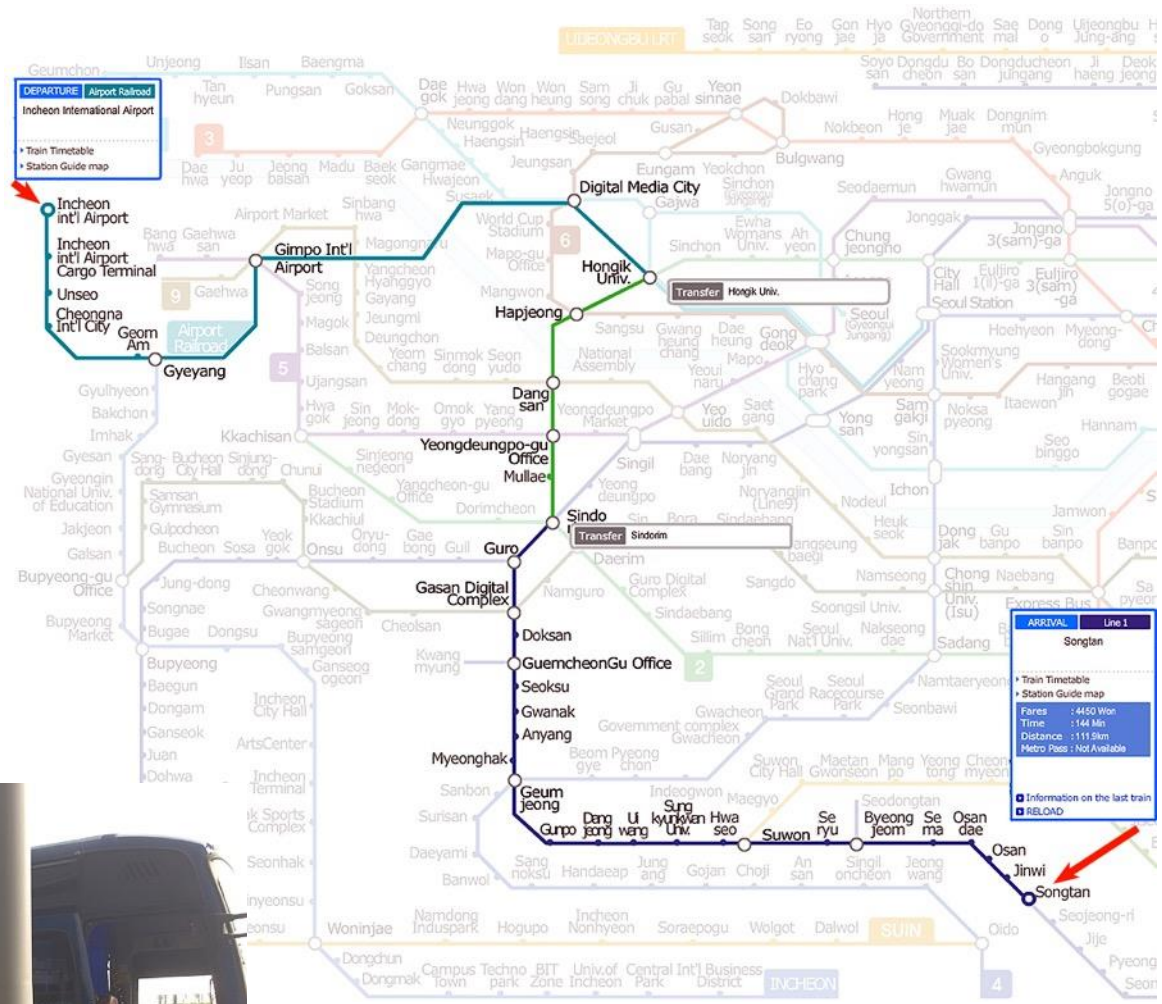


Osan Air Base Restrictions

- No Photography in the flight line or towards the runway. No photographing of military aircraft.
- DCP escorted at all times
- Always carry Identification: and proof of any special access/training as needed.
- Last minute visitors:
  - Must be escorted at all times
  - No after hours access
  - Cannot stay on base
  - No DCP
  - Still, must notify ESPO

Transportation

- From Airport to Osan AB
  - Bus Transportation
  - Metro
  - *Taxi (not recommended)*

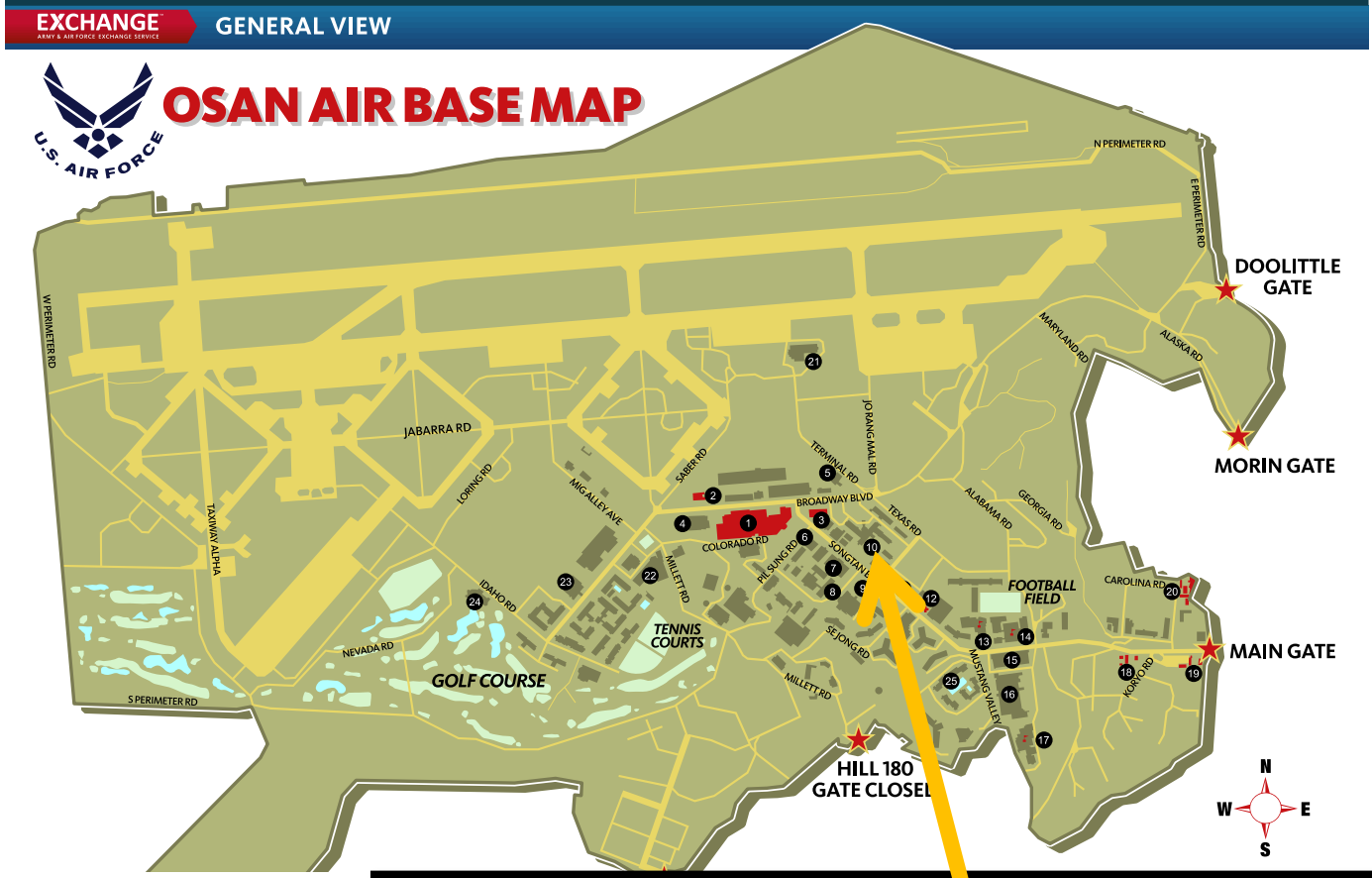


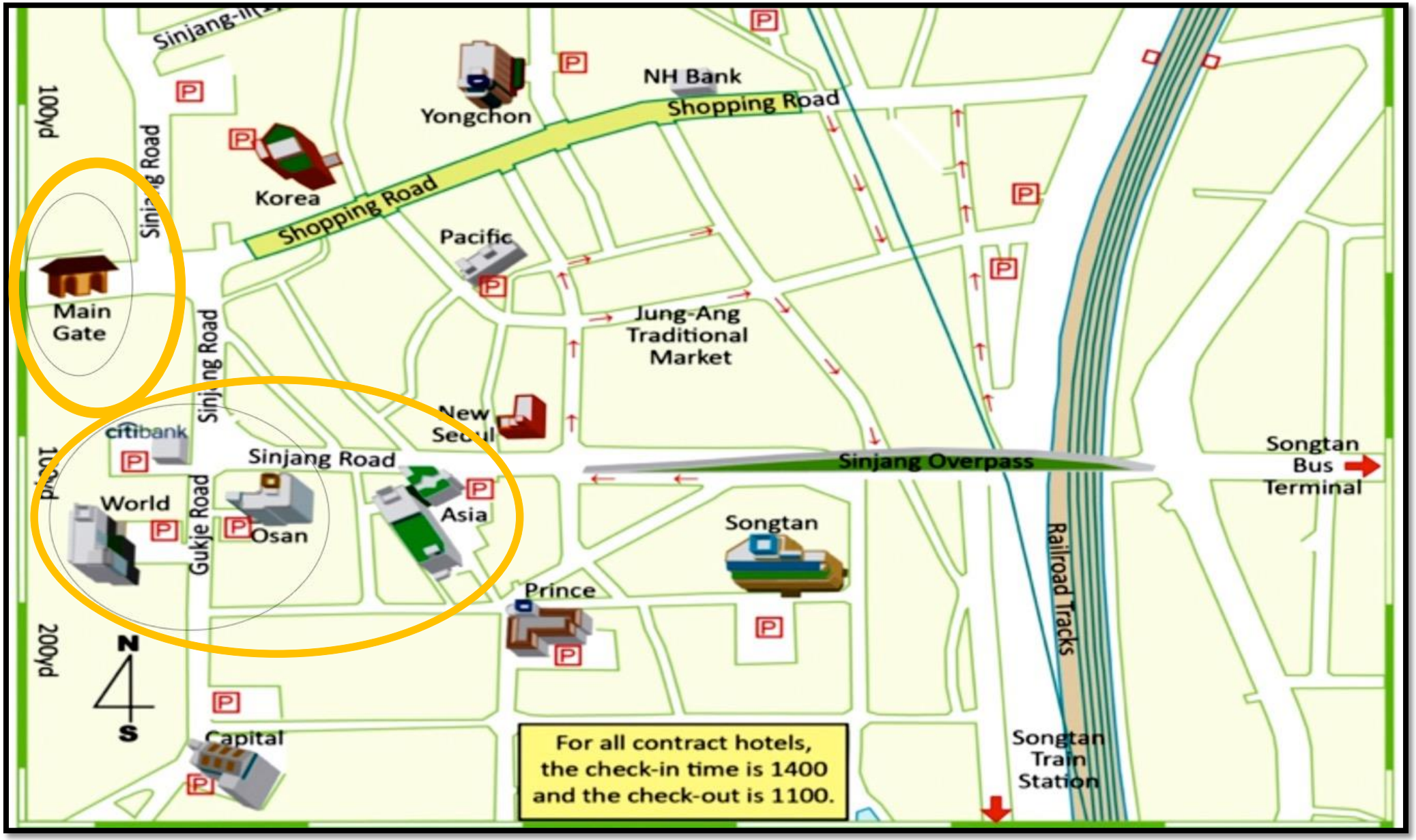
Transportation

- On base (everything is within 1.5Km (1 mile) distance)
  - Privately owned vehicles are OK
  - Taxi (~3000 Won/~$3USD)
  - Walking
  - Bike
- Off base: (See the orientation package)
  - Train
  - Bus

Lodging

- On base: Turumi Lodge
  - Rate: $60/night
- Off base:
  - Contract hotels just outside the base
  - Rate: ~$85USD
- Per Diem rates are different in each case.
  - Osan Air Base (Other):$77/$52
  - Off-base hotels (Pyongtaek City): $82/$63




Sinjang-ro
100yd
Sinjang Road
Yongchon
NH Bank
Shopping Road
Shopping Road
Korea
Pacific
Main Gate
Jung-Ang Traditional Market
New Seoul
citibank
Sinjang Road
Sinjang Road
Sinjang Overpass
Songtan Bus Terminal
World
Gukje Road
Osan
Asia
Songtan
Railroad Tracks
Prince
200yd
N
S
Capital
For all contract hotels, the check-in time is 1400 and the check-out is 1100.
Songtan Train Station

Work and Lab Spaces

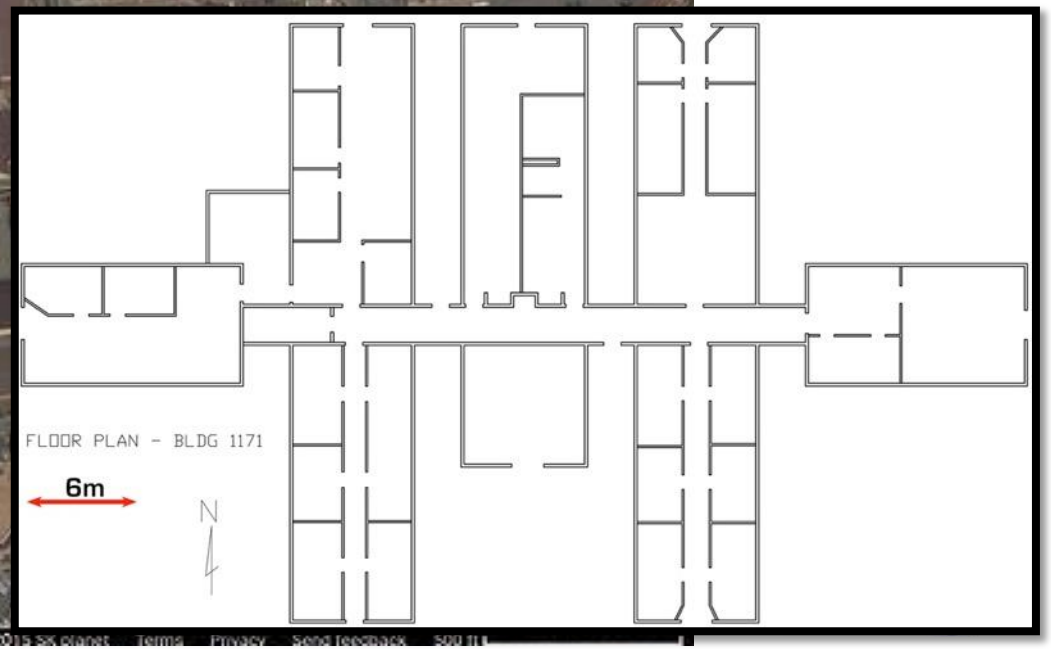
- **Office Space** (building 1171)
- Science team, forecast teams, flight crews, etc.
- Power available is 120V/60Hz (on 20A circuits)
  - If needed, higher amperage can be requested.
- Wi-Fi (100Mbs). Is a static IP needed?

DC-8 Parking

King Air Parking

Lab Work Area

Office Work Area



Aquatic Frontier

Google

500ft / 152m


1171

Work & Lab Spaces

- Hangar Space (building 1187): Instrument Work
- Closest proximity to DC-8
- No air conditioning
- Power available is 120V/60Hz (on 20A circuits)
  - If needed, higher amperage can be requested.
- Wi-Fi (100Mbs). Is a static IP needed?

DC-8 Parking

King Air Parking

Lab Work Area

Office Work Area

Aquatic Frontier

500ft / 152m

Google