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)
Deadline for Sea shipment items to Palmdale
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apr 3</td>
<td>Instrument Upload</td>
</tr>
<tr>
<td>Apr 10</td>
<td>Instrument Upload</td>
</tr>
<tr>
<td>Apr 17</td>
<td>Instrument Upload</td>
</tr>
<tr>
<td>Apr 24</td>
<td>Instrument Upload</td>
</tr>
<tr>
<td>Apr 4</td>
<td>4STAR, CAFS, K-CIMS, TD-LIF, WAS, CIT-CIMS Install Begins</td>
</tr>
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<td>Apr 11</td>
<td>Lidar Calibrations</td>
</tr>
<tr>
<td>Apr 28</td>
<td>Shakedown Flight</td>
</tr>
<tr>
<td>Apr 5</td>
<td>4STAR, CAFS, K-CIMS, TD-LIF, WAS, CIT-CIMS Install Begins</td>
</tr>
<tr>
<td>Apr 12</td>
<td>Lidar Calibrations</td>
</tr>
<tr>
<td>Apr 29</td>
<td>Test Flight #1</td>
</tr>
<tr>
<td>Apr 6</td>
<td>PTR-MS, K-PTR-MS, GT-CIMS Install Begins</td>
</tr>
<tr>
<td>Apr 13</td>
<td>Lidar Calibrations</td>
</tr>
<tr>
<td>Apr 30</td>
<td>Transit to Korea</td>
</tr>
<tr>
<td>Apr 7</td>
<td>Test Flight #1</td>
</tr>
<tr>
<td>Apr 14</td>
<td>Lidar Calibrations</td>
</tr>
<tr>
<td>Apr 31</td>
<td>Test Flight #2</td>
</tr>
<tr>
<td>Apr 8</td>
<td>Test Flight #2</td>
</tr>
<tr>
<td>Apr 15</td>
<td>Pack Day</td>
</tr>
<tr>
<td>Apr 22</td>
<td>Sea Shipment Arrives</td>
</tr>
<tr>
<td>Apr 16</td>
<td>Test Flight #2</td>
</tr>
<tr>
<td>Apr 23</td>
<td>Test Flight #2</td>
</tr>
<tr>
<td>Apr 24</td>
<td>Air Shipment Departs</td>
</tr>
<tr>
<td>Apr 30</td>
<td>Hard Down Day</td>
</tr>
<tr>
<td>Apr 25</td>
<td>Lab Access Only</td>
</tr>
<tr>
<td>Apr 26</td>
<td>Lab Access Only</td>
</tr>
<tr>
<td>Apr 31</td>
<td>Lab Access Only</td>
</tr>
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</table>

Lab Access Only

Aircraft Access

Sea Shipment Arrives

Aircraft Access
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Unpack</td>
</tr>
<tr>
<td>9</td>
<td>Media Day</td>
</tr>
<tr>
<td>10</td>
<td><strong>First Possible Science Flight</strong></td>
</tr>
<tr>
<td>11</td>
<td>Air Shipment Arrives</td>
</tr>
<tr>
<td>13</td>
<td>Latest chance for Hard Down Day</td>
</tr>
</tbody>
</table>

**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

- Last possible day for science flight
- Pack Day
- Transit to Palmdale
- Hard Down Day
- Aircraft Access
- SARP Flight #1
- SARP Flight #2
- Download begins
- ATom access and upload begins
- Download
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

<table>
<thead>
<tr>
<th>Location</th>
<th>Completed</th>
<th>Missing</th>
<th>Incomplete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Palmdale</td>
<td>116</td>
<td>91</td>
<td>19</td>
</tr>
<tr>
<td>Osan</td>
<td>161</td>
<td>95</td>
<td>30</td>
</tr>
</tbody>
</table>

*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?
KORUS-AQ Mission Website
Regularly Updated with Shipping and POC information
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 3/16.
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 cannot 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) (861) 276-3675 / (661) 209-6569

Shipping Address - Palmdale CA
NASA Aircraft Operations Facility
2825 East Avenue P
Palmdale, CA 93550
Attn: (your name) / Karen Richards
(861) 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.
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

<table>
<thead>
<tr>
<th>Case Number</th>
<th>Item Number</th>
<th>Item Description</th>
<th>Manufacturer</th>
<th>Model Number and Serial Number</th>
<th>Country of Manufacture</th>
<th>Excluded Value (USD)</th>
<th>Item Quantity</th>
<th>Total Value (USD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>O'scalcope (Example)</td>
<td>Acme Manufacturing</td>
<td>ABC-123 VIN 987458984752098437</td>
<td>USA</td>
<td>$1,000</td>
<td>4</td>
<td>$4,000</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>LED Monitor (Example)</td>
<td>Dell</td>
<td>Latitude 2430 VIN 98374989347</td>
<td>China</td>
<td>$200</td>
<td>1</td>
<td>$200</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>Power Supply, 220v (Example)</td>
<td>ElAcme Manufacturing</td>
<td>PS-210 VIN 123456789-12KT</td>
<td>Mexico</td>
<td>$500</td>
<td>2</td>
<td>$1,000</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td>Hand Tool Kit (Example)</td>
<td>NA</td>
<td></td>
<td>China</td>
<td>$300</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>5</td>
<td>Box of Nitrile Glove (Example)</td>
<td>Sani-Glove Co.</td>
<td>Model 34 VIN NA</td>
<td>China</td>
<td>$30</td>
<td>2</td>
<td>$60</td>
</tr>
<tr>
<td>6</td>
<td>6</td>
<td>Misc. Air Fittings (Example)</td>
<td>NA</td>
<td></td>
<td>NA</td>
<td>$50</td>
<td>1</td>
<td>$50</td>
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</tbody>
</table>

**Case Description:**
- Back Plastic
- Case Description: Length 48, Width 24, Height 18, Case Weight 100
# Sea Shipment Manifest

## Haz Mats

<table>
<thead>
<tr>
<th>UN No. Or ID No.</th>
<th>Proper Shipping Name</th>
<th>Hazard Class</th>
<th>Packing Group (Subsidiary Risk)</th>
<th>Quantity and type of Packaging</th>
<th>Packing Instr.</th>
<th>Authorization</th>
<th>Manufacturer</th>
<th>Country of Manufacture</th>
<th>Cost</th>
<th>Unit Quantity</th>
<th>Total Unit Cost</th>
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<tr>
<td>UN 1002</td>
<td>AIR, COMPRESSED</td>
<td>2.2</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td>Scott-Marin</td>
<td>USA</td>
<td>$500</td>
<td>1</td>
<td>$500</td>
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DO NOT FILL IN THIS SECTION. ESPO WILL COMPLETE.
# Air Shipment Manifest

<table>
<thead>
<tr>
<th>Case N.</th>
<th>Item N.</th>
<th>Item Description</th>
<th>Manufacturer</th>
<th>Model Number and S/N</th>
<th>Quantity</th>
<th>Est. Total Value (US $)</th>
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<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>Oscilloscope (Example)</td>
<td>Acme Manufacturing</td>
<td>ABC-123</td>
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<tr>
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<td>2</td>
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<td>Latitude 2430</td>
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<tr>
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<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Case Description</th>
<th>Case Dims</th>
<th>Case Weight</th>
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<tbody>
<tr>
<td></td>
<td>48 x 24 x 18</td>
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</tr>
</tbody>
</table>
Air Shipment Manifest

Lithium Batteries as Cargo in 2016

Background

The 25\textsuperscript{th} 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);
KORUS-AQ Shipping Overview
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Shipments to Palmdale
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(661) 276-3675

Palmade to Osan AFB
Air Shipment / HANSON AFB (TENTATIVE)
NASA Aircraft Operations Facility
2825 East Avenue P
Palmdale, CA 93550
Attr: (your name) / Karen Richards
(661) 276-3675
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

This requires planning for receiving and staging prior to the shipment.

Please email Karen Richards and Steven Todorov when you ship.
Return Shipping Dates

AIR SHIPMENT  6/21

SEA SHIPMENT  8/8
## Consumables

### Cryogens

<table>
<thead>
<tr>
<th>Dry Ice</th>
<th>LN2</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAGA</td>
<td>CIT-CIMS</td>
</tr>
<tr>
<td>NOxyO3</td>
<td></td>
</tr>
<tr>
<td>Zero Air</td>
<td>UHP Nitrogen</td>
</tr>
<tr>
<td>------------------------</td>
<td>-------------------------</td>
</tr>
<tr>
<td>• AMS*</td>
<td>• HR-ToF-AMS</td>
</tr>
<tr>
<td>• DACOM/DLH</td>
<td>• AMS*</td>
</tr>
<tr>
<td>• HR-ToF-AMS</td>
<td>• CIT-CIMS</td>
</tr>
<tr>
<td>• CAFE</td>
<td>• CAMS</td>
</tr>
</tbody>
</table>
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

KORUS-AQ: An International Cooperative Air Quality Field Study in Korea

**US Steering Group:** Jassim Al-Saadli, Gregory Carmichael, James Crawford, Louisa Emmons, and Saewung Kim

**Korean Steering Group:** Chang-Keun Song, Lim-Seok Chang, Gangwoong Lee, Jhoon Kim, and Rokjin Park

**Introduction**

Air quality is an environmental concern of fundamental importance across the globe. The need to monitor and understand air quality requires continual effort as populations grow, energy use increases, and industrial activity evolves. Air quality goals have also evolved; as improved understanding of health effects has demonstrated the added benefit of setting lower targets for...
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.
ESPO Website Registration

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

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

*If visiting AFRC

** 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

OVERDUE. Base access requests go out in January.
ESPO Website Registration

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

Passport Scan

Badge Photo

2 inch = ~50mm
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
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

Daily Schedule

KORUS-AQ 12/12/15 Mission Daily Schedule
December 12, 2015 at 9:18 AM

Now you can follow our mission updates via Twitter! Follow us @KORUS_AQ
SAFARI

KORUS-AQ: An International Cooperative Air Quality Field Study in Korea

US Steering Group: Jassim Al-Saadi, Gregory Carmichael, James Crawford, Louisa Emmons, Robert Honeyman

Korean Steering Group: Chang-Keun Song, Lim-Seok Chang, Gangwoong Lee, Jhoon Kim, and

Introduction

Air Quality is an environmental concern of fundamental importance across the globe. The need for better air quality requires continual effort as populations grow, energy use increases, and industrial activity has also evolved as improved understanding of health effects has demonstrated the added exposure of humans and ecosystems to ozone, fine particles, and other toxic pollutants.

In recent years, satellites in low Earth orbit (LEO) have demonstrated the ability to observe air quality. However, the impact of LEO observations has been limited by their infrequent nature and respect to source distributions and timing (approximately once per day at horizontal scales of 100-1000 km) to observe the details of air quality events that can develop over timescales of a single day. The primary purpose of the KORUS-AQ mission is to address these problems by providing high spatial and temporal resolution required for global observations and continue to improve our understanding of the regional scale through the use of space-based instruments.

KORUS-AQ will operate in the constellation of satellite instruments focused on air quality over Asia, North America, and Europe. The mission will provide hourly observations of these regions through the day at horizontal resolutions of better than 10 km. GEO atmospheric chemistry instruments expected to launch in 2018-2019 include GEMS by the US, and Sentinel-5P by Europe (Figure 1). The mission will begin the next generation of once-daily global measurements from LEO at horizontal scales.
Firefox
Chrome

RSS Feed Reader

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: 1.87MB
Language: English
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
Orientation - Osan Air Base

Earth Science Project Office
Jhony Zavaleta, Kent Shiffer, Steven Todorov
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
For all contract hotels, the check-in time is 1400 and the check-out is 1100.
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
Lab Work Area
King Air Parking
Office Work Area

500ft / 152m
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

500ft / 152m