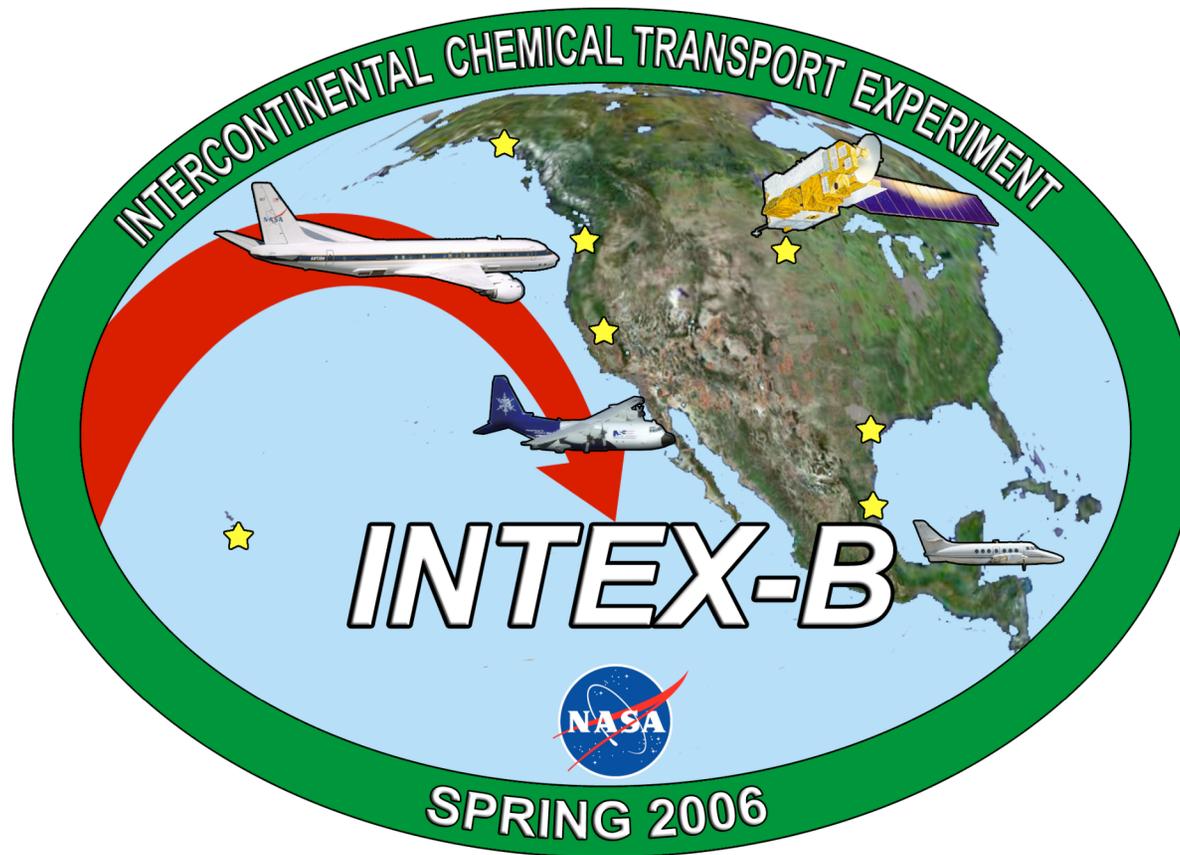




# Intercontinental Chemical Transport Experiment

## Logistics and Communication



Michael T. Gaunce  
NASA ESPO  
October 29, 2005



# Presentation Overview

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- Deployment Schedule
- Labs
- Accommodations
- Shipping & Logistics
- Communications
- Contacts

***BIG CAVEAT: This is preliminary planning info and subject to change!***



## INTEX-B/DC8 Schedule\*

<b>Location</b>	<b>Event</b>	<b>Date (2006)</b>	<b>Flights</b>	<b>Flight hours</b>
UND (Grand Forks)	Integration	1/16-2/16	0	0
UND	Test flights	2/17-2/27	2	8
Transit to Houston	Transit	2/28	1	4
Houston	Science Flights	3/1-3/21	5	42
Transit to UND	Transit	3/22	1	4
Break	Break	3/23-4/12	0	0
UND Prep	Preparation	4/13-4/16	0	0
Transit to Hawaii	Transit	4/17	1	9
Hawaii	Science Flights	4/18-4/29	3	24
Transit to Anchorage	Transit	4/30	1	8
Anchorage	Science Flights	5/1-5/14	4	35
Transit to UND	Transit	5/15	1	6
<b>Total</b>			<b>19</b>	<b>140</b>

\*Additional flight hours, if available, will be use to add 1 flight each at Houston & Anchorage



# Travel & Accommodations

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- Individuals responsible for their own reservations.
- SAIC Travel
  - For non-Civil Servants, the SAIC Project Support Office is handling air and rental car arrangements.
- Hotels
  - Room Blocks/Rates are under negotiation. Should be available by 12-1-05.
  - Exploring Base Housing at Hickam.
    - Roughly 25% cost of local hotels.
    - U.S. Citizens only.
    - No guest privileges.
- DC-8 Passengers: ESPO will help you with rental cars.
- Cost Control is important - High cost deployment sites.
  - Tax exemptions where available.
  - FYI: Twice weekly charter service HNL-ANC for about \$375.



# Lab Description & Support

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- Lab Space
  - Identified for all locations.
  - Layouts to be provided.
- Network
  - Labs have 1.0 MB minimum shared connection.
  - Ethernet connection plus wireless.
  - DHCP to be provided(details still in work).
  - Please be sure to have virus protection SW on your computer.
  - Administration & support provided by ESPO.
- No in-field data archive.



# Lab Description & Support

## (Cont)

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- Project Office will supply furniture, printers, copy machine, fax.
- Please advise ESPO of your lab and network requirements.



# Security & Access

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- Badging
  - Badging requests required for four sites:
    - GFAFB, EFD, Hickam, Kulis.
    - Will try to coordinate/combine approvals b/n facilities.
  - Flightline badges for ground/flight crew required.
    - Training may be required.
  - Escorting for Foreign National personnel is required at military facilities.
  - Badges must be displayed.
- Vehicle passes required at GFAFB and HAFB.



# Shipping & Logistics

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- Project Office will supply standard gasses and cryogenes.
  - Compressed nitrogen, compressed air, liquid nitrogen and dry ice.
  - Specialty gasses, calibration gasses and chemicals will need to be shipped.
- ESPO will ship instrument & aircraft support equipment from UND to each deployment site and will return the equipment to UND at the end of the project.
- We plan to leave equipment in Houston for airlift to Hawaii.
- Tentative Shipping Schedule
  - 25 Feb: One shipment leaving UND to Houston.
  - 15 Apr: Airlift from EFD to Hickam AFB.
  - 29 Apr: Airlift from Hickam AFB to ANC/Kulis.
  - 16 May: One shipment leaving Kulis to UND.
  - Dates could change depending on flight schedule.





# Communications

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- Meetings & Briefings
  - On Science Flight days: Pre-flight briefing 2 hours prior to T/O.
  - On non-flight days:
    - Flight Planning team mtgs (joint w/NSF?)
    - Science team mtgs.
    - Joint coordination telecons/videocons as required.
- Cell phone coverage at all deployment sites.
- Conferencing
  - Videoconferencing or internet meet-me service being studied.
    - Cost and feasibility TBD.
  - Back-up: Telecon meet-me with posted/e-mailed files.
- Public Affairs, Education, and Outreach
- In the field.....
  - Phone lists provided after site arrival.
  - Daily message phone.
  - News & activities posted in office areas.

# INTEX-B Spring 2006

## North America

Home

Science

Platforms

Participants

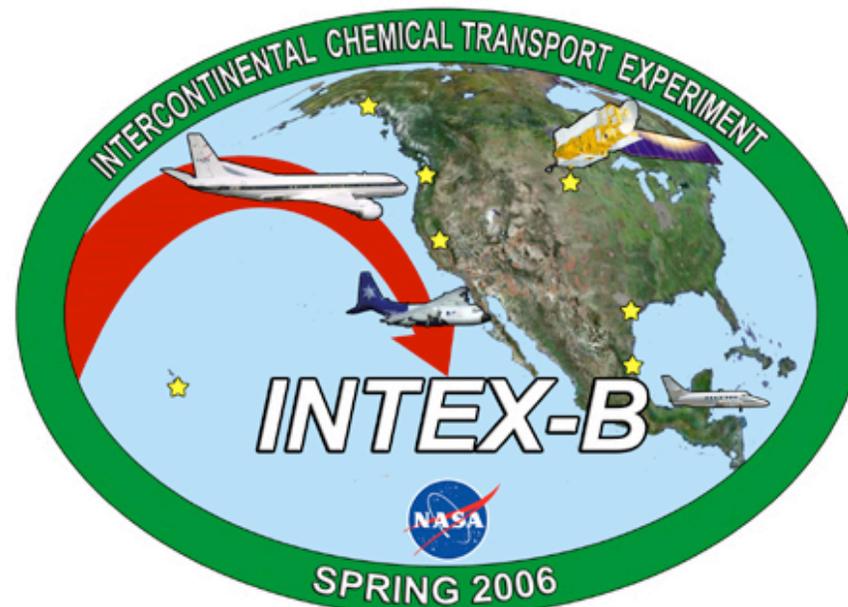
Mission  
Planning

Logistics

Photo  
Gallery

Reference

Press and  
Public  
Affairs



[INTEX-NA](#) is a two phase experiment that aims to understand the transport and transformation of gases and aerosols on transcontinental/intercontinental scales and to assess their impact on air quality and climate. The primary constituents of interest are ozone and its precursors, aerosols and their precursors, and the long-lived greenhouse gases. The first phase (INTEX-A) was completed in the summer of 2004 and the second phase (INTEX-B) will be performed in the spring of 2006.

INTEX-B will be performed during an 8-week period from March 1 to April 30, 2006. The first part of the study will be performed during March and will focus on Mexico City pollution outflow while the second part will be performed during April and will focus on Asian pollution inflow.

The INTEX-B mission is sponsored by the Tropospheric Chemistry Program at NASA Headquarters. Further programmatic enquiries should be directed to [Dr. Bruce Doddridge](#), Tropospheric Chemistry Program Manager.

### What's New

#### Planning Meeting

A science team meeting for INTEX-B/MILAGRO is scheduled for October 27-28, 2005 in Boulder Colorado.

To view the INTEX-B meeting agenda, click [here](#).

For the MILAGRO meeting agenda, click [here](#).

[Top of the page](#)

NASA Official Responsible for Contents: Mike Craig

Web Site Administrator: Greg Klinedinst



# Other Misc Information

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- INTEX web sites:
  - Mission: <http://cloud1.arc.nasa.gov/intex-b>
  - Data Archive: <http://www-air.larc.nasa.gov/missions/intex-b/intexb.html>
  - NSF/MILAGRO: <http://www.joss.ucar.edu/milagro>



# Deployment Contact Info

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- ESPO Contact Info
  - Mike Gaunce                      Sites: Veracruz, Honolulu, Anchorage  
[mgaunce@arc.nasa.gov](mailto:mgaunce@arc.nasa.gov)                      650-604-1266 C: 650-455-4964
  - Mike Craig                      Sites: Grand Forks, Houston  
[mcraig@arc.nasa.gov](mailto:mcraig@arc.nasa.gov)                      650-604-6586
  - Kent Shiffer                      Sites: Seattle  
[kshiffer@arc.nasa.gov](mailto:kshiffer@arc.nasa.gov)                      650-604-4151
  - Quincy Allison                      Shipping & Logistics  
qallison@mail.arc.nasa.gov                      650-604-3493 C: 650-575-9415
  - Kathy Thompson                      Project Coordinator  
[kathyathompson@qwest.net](mailto:kathyathompson@qwest.net)                      303-494-9360
- DC-8
  - Rick Shetter                      NSERC Director  
r.shetter@nserc.und.edu                      701-777-6040                      C: 701-330-2126
  - Dave Easmunt                      Mission Manager  
[David.P.Easmunt@nasa.gov](mailto:David.P.Easmunt@nasa.gov)                      757-824-1376
- SAIC Travel
  - Web site: <http://lposun.larc.nasa.gov/pso>.
  - POC: Roy Chesson, (757) 827-4686



# Open Issues

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- Confirm Room Blocks & Rates.
- Confirm conferencing requirements.
- Needs detailed requirements from PIs:
  - Network
  - Shipping
  - Hazardous Items
  - Gases
  - Other
  - Follow-up requests coming.

*Note: Please provide web content (e.g., instrument descriptions) you would like to have posted to web site.*



# Back-up Charts



# AK Local Area Info

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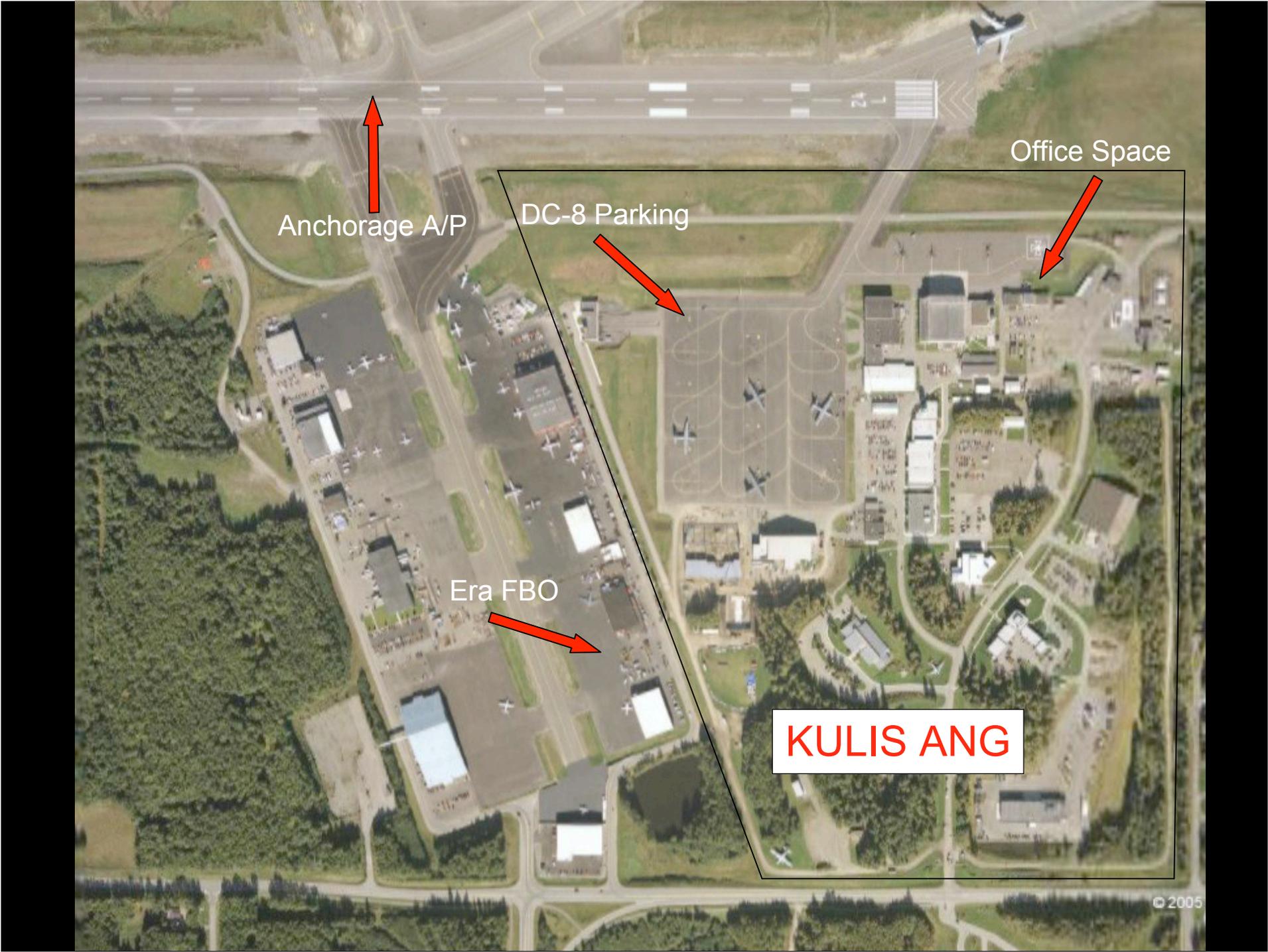
- Kulis ANG: 5 miles WSW of downtown Anchorage; adjacent to ANC
- Lat/Long: 61° N, 149° W
- Getting There:
  - Multiple daily flights via Seattle (Alaska, Continental).
  - Daily non-stops through some hubs.
- Average Spring weather: 28 - 43 °F
  - Likelihood of sunshine: 51%
- Time: AKST (GMT- 9)
- Area code: 907
- Per diem rates: \$95 lodging, \$65 M&IE per day (before 4/30).  
\$170 lodging, \$71 M&IE per day (after 4/30).
- Local Links:
  - Kulis: <http://www.akang.ang.af.mil>
  - Anchorage: <http://www.anchorage.net>
- Local tip: Don't Feed Moose.



# Kulis ANG/ANC

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- Runways at ANC with taxi-ways:
  - 14/32 at 11,500 ft
  - 07R/25L at 10,900 ft
  - 07L/25R at 10,600 ft
- Kulis would provide ramp space, lab space, fuel, and most GSE.
  - Labs located about 300 yards from A/C.
- NASA would provide:
  - Lab set-up and facility operation
  - Network
  - Some GSE (TBD)
  - Some mobile office space (TBD)
  - Reimbursement for: Fuel, Phones, etc.
- Badging and access approval required.
- Core hours: 8-4 M-F. NASA would have 24/7, but would need to schedule after hour support.



Anchorage A/P

DC-8 Parking

Era FBO

Office Space

**KULIS ANG**



# Kulis ANG General Views





# HI Local Area Info

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- Hickam: 10 miles W of downtown Honolulu; adjacent to HNL
- Lat/Long: 21° N, 157° W
- Getting There:
  - Multiple daily flights via LAX & SFO (United, American).
  - Daily non-stops through some hubs.
- Average Spring weather: 69 - 82 °F
  - Likelihood of sunshine: 70%
- Time: GMT- 10
- Area code: 808
- Per diem rates: \$129 lodging, \$77 M&IE per day.
- Local Links:
  - Hickam: <http://www2.hickam.af.mil>
  - Oahu: <http://www.visit-oahu.com/home.aspx>
- Local tip: Da kine, haole.



# Hickam AFB/HNL

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- Runways at HNL with taxi-ways:
  - 04R/22L at 9000 ft
  - 04L/22R at 7000 ft
  - 08R/26L at 12,000 ft
  - 08L/26R at 12,300 ft
- Hickam would provide ramp space, lab space, fuel, and GSE.
  - Labs located adjacent to A/C ramp.
- NASA would provide:
  - Lab set-up and facility operation
  - Network
  - Reimbursement for: Fuel, Phones, etc.
- Badging and access approval required.
  - Foreign Nationals to be escorted.
- NASA would have 24/7 access.



Hickam  
Air Force Base



Image © 2005 Sanborn

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# Hickam AFB

## General Views





# TX Local Area Info

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- Ellington Field: 15 miles SE of downtown Houston in Clear Lake
- Lat/Long: 29° N, 95° W
- Getting There:
  - IAH: 35 miles (Continental hub).
  - Hobby: 8 miles (Southwest hub).
- Average March weather: 51 - 73 °F
  - Likelihood of sunshine: 52%
- Time: CST (GMT- 6)
- Area code: 281
- Per diem rates: \$92 lodging, \$59 M&IE per day
- Local Links:
  - Ellington: <http://efd.houstonairportsystem.org>
  - Houston: <http://www.houston-guide.com>
- Local tip: March is the best month to be in Houston.



Hangar 990

B-994

DC-8 Parking

Ellington Field

SW Services Terminal



Pointer 29°38'28.94" N 95°10'00.82" W elev 28 ft

Streaming 100%

© 2005 Google

Eye alt 2734 ft



# Ellington Field

## General Views





# INTEX-B 2006

## Key Personnel

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Bruce Doddridge	Program Manager	NASA HQ
Hanwant Singh	Lead Mission Scientist	ARC
Daniel Jacob	Co-Mission Scientist, Flight Planning	Harvard Univ
Jim Crawford	Co-Mission Scientist, Data	LaRC
Bill Brune	Co-Mission Scientist, C-130	Penn State
Mike Gaunce	Project Manager	ARC
Michael Craig	Project Co-Manager	ARC
Kent Shiffer	IMPEX Project Manager	ARC
Dave Easmunt	Mission Manager	WFF
Kathy Thompson	Project Coordinator	CSC
Sue Tolley	Logistics & Coordination	ARC
Quincy Allison	Logistics & Network	ARC
Ali Aknan	Data Manager	LaRC
Greg Klinedinst	Web Administrator	ARC