

# WINTER Logistics and C-130 Integration

07 November 2014





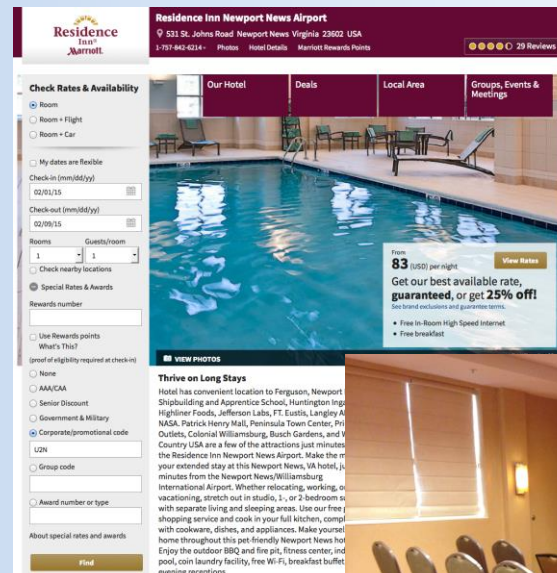
# Field Logistics



# WINTER Hotel and Operations Center



- Residence Inn Newport News Airport
  - \$83 per night
  - [www.marriott.com/phfn](http://www.marriott.com/phfn)
    - Enter your dates, select Special Rates and Awards, and enter the code U2N in Corporate/promotional code
- Operations Center
  - Daily planning meeting (time TBD)
  - Work space
    - Projector, printer, scanner, TV monitor w/ Apple Airplay
    - Secure wifi
    - Linux server w/ 4 TB local storage
  - Good availability
    - Except: 2/12, 3/12, Sunday a.m.
  - Specific computing needs?
    - IDL, Matlab, etc.

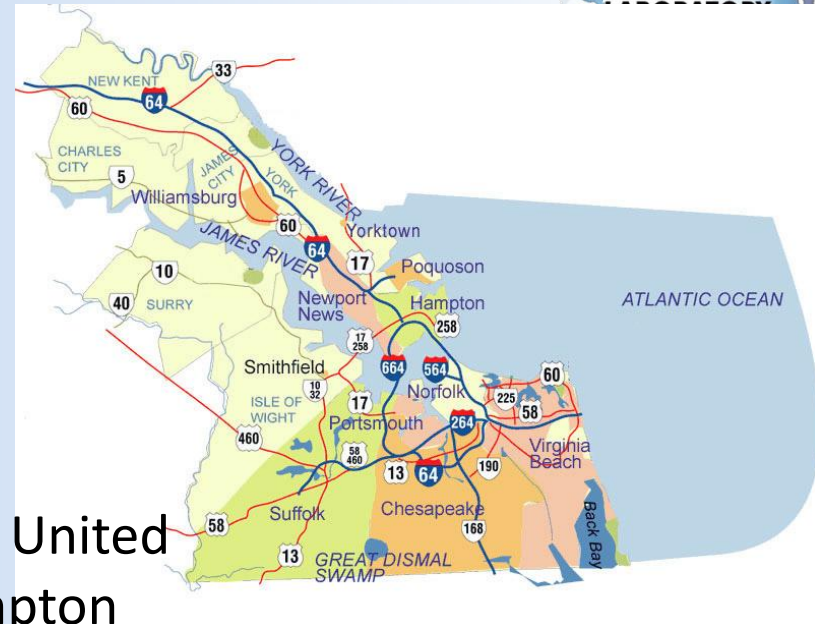




# Getting to Hampton



- Nearby Airports
  - Newport News (PHF)
    - Delta and US Airways
    - Closest to hotel (< 2 miles)
  - Norfolk (ORF)
    - PHF plus American, Southwest, United
    - Across bridge/tunnel from Hampton
      - avoid during rush hour
  - Richmond (RIC)
    - ORF plus jetBlue
    - ~70 miles west of PHF
  - Washington D.C. (IAD)
    - ~170 miles from Hampton
    - Nearest with a direct flight from DEN





# NASA Access

- Before arrival – no later than January 1
  - Send to NASA (through Cory)
    - Full Name
    - Email Address
    - Phone Number
    - Date of Birth
    - Place of Birth
    - Home Address
    - Citizenship
    - Copy of Documentation – green card, naturalization papers, Visa
    - SSN
  - Sensitive information will be collected, stored, and transmitted safely
    - Direct phone call, fax
    - Stored directly on encrypted laptop



# NASA Access



- Arrival at NASA
  - Go to badge and pass office, next to main gate
    - Weekdays: 0630 – 1500
  - 2 forms of ID – driver's license, passport, social security card
  - Green card, naturalization papers, or Visa (if needed)
- Safety briefing upon arrival and halfway through as new rotation comes in
- Base access only
  - Building access – coordinate with NASA
  - Escorted at all times by NASA staff





# Specialty Gases

- Instrument team responsibility
- Available suppliers
  - Praxair – Richard Sperber 804.229.3119
  - Airgas – 757.262.1530
  - Air Liquide – not available
- Delivery address:
  - C/O Dale R Bowser
  - NASA LaRC
  - 6 Taylor Street Bldg. 1244 M/S 255
  - Hampton, VA 23681

Wintertime Investigation of Transport, Emissions, and Reactivity

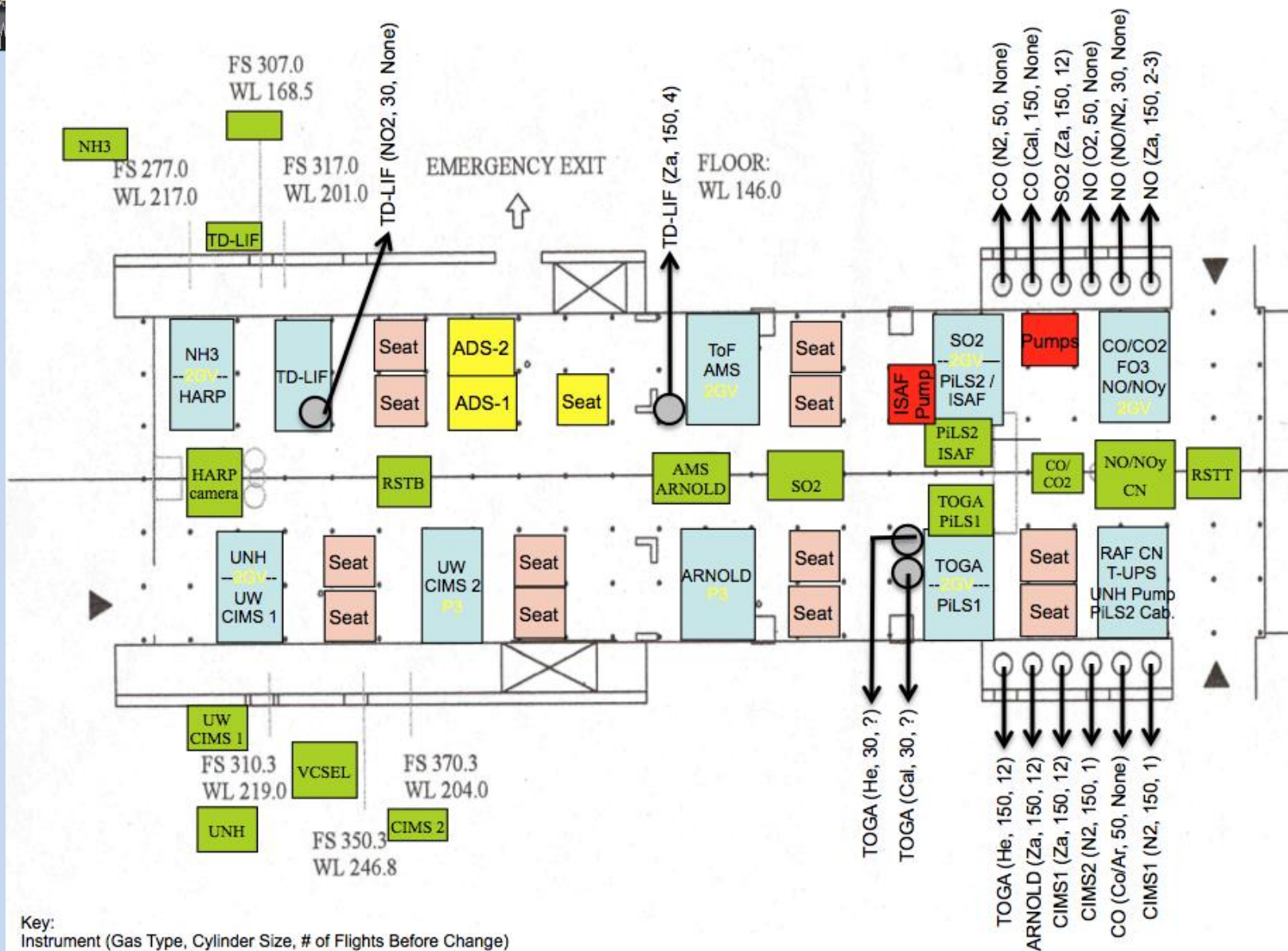
# C-130 Integration



WINTER  
2015



# Payload



Key:  
Instrument (Gas Type, Cylinder Size, # of Flights Before Change)

# Upload schedule for WINTER November 2014 - January 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
11/2	11/3	11/4	11/5	11/6 Prep for Install	11/7 Science and Planning Meeting	11/8
			Put ISAF in Rack			
11/9	11/10	11/11	11/12	11/13	11/14	11/15
	Install CIMS1					
	Install NH3					
	Install Wing Probes					
11/16	11/17	11/18	11/19	11/20	11/21	11/22
	Install HARP					
	Install TD-LIF					
	Install Wing Probes					
11/23	11/24	11/25	11/26	11/27	11/28	11/29
11/30	12/1	12/2	12/3	12/4	12/5	12/6
	Install UNH rack, plate, and tubing					
	Install CIMS2					
	Install ToF AMS					
12/7	12/8	12/9	12/10	12/11	12/12	12/13
	Install ToF AMS					
	Install PILS1					
	Put PILS2 in ISAF Rack					
			RAF Closed - No Hangar or Aircraft Access		ARNOLD / SO2 Preparation	
12/14	12/15	12/16	12/17	12/18	12/19	12/20
	Install ARNOLD / SO2					
12/21	12/22	12/23	12/24	12/25	12/26	12/27
12/28	12/29	12/30	12/31	1/1	1/2	1/3
	Install ISAF/PILS2 Rack					
1/4	1/5	1/6	1/7	1/8	1/9	1/10
	Install TOGA					
	Install CO/CO2, O3, NO/NOy					
	Install CN and UNH Pump					
1/11	1/12	1/13	1/14	1/15	1/16	1/17
	Payload Flight Ready	Weigh C130 SAR	EMI FRR	FRR Corrections	Pilot Pro	
1/18	1/19	1/20	1/21	1/22	1/23	1/24
	Safety Brief	TF01			TF02	
1/25	1/26	1/27	1/28	1/29	1/30	1/31
Hard Down	TF03 (if needed)			Ferry		
2/1	2/2	2/3	2/4	2/5	2/6	2/7
Hard Down	Begin Flight Ops					

## Important Dates

- 11 December
  - RAF closed
- 12 January
  - Payload flight ready
- 21 January
  - First test flight
- 29 January
  - Ferry flight



## Things to Know

- SAR – System Acceptance Review
  - Informal process to determine the readiness of your instrument
- EMI – Electromagnetic Interference Test
  - Must be present or have someone there to turn on your instrument
- FRR – Flight Readiness Review
  - RAF activity to determine if instrument and components are acceptable for flight
- Pilot Proficiency
  - Checkout flights on the C-130
- Safety Briefing
  - Required for anyone who will be flying on the aircraft
  - Also conducted 2-3 times in the field



# Shipping to NASA



- RAF Shipment
  - Arrival by 28 January
  - Leaving Broomfield ~22 January
  - All items to RAF by 16 January

- Shipments on your own

NCAR C-130 WINTER Project

C/O Dale R Bowser

NASA LaRC

6 Taylor Street Bldg. 1244 M/S 255

Hampton, VA 23681



# Miscellaneous



- HazMat Forms and MSDS
- Tool Control
- Ferry Flight
  
- Questions and Discussion