

# General Workshop Information

**Wireless access** is available from this room. To connect, go to <http://www.wireless.ucar.edu> The group name and password are **RICO**. If you have trouble connecting, please contact Jay Alipit, x8527 or pager 303-497-1104 (when prompted, enter 210), or email: [alipit@ucar.edu](mailto:alipit@ucar.edu)

**Lunch** is available in the cafeteria in this building. The menus for today and tomorrow are:

## Wednesday, September 1

Navy Bean Soup  
Greek Salad Pita, Pepperoncini  
Ham & Brie Baguette, Chips  
Salisbury Steak, Macaroni & Cheese,  
and Stewed Tomatoes

## Thursday, September 2

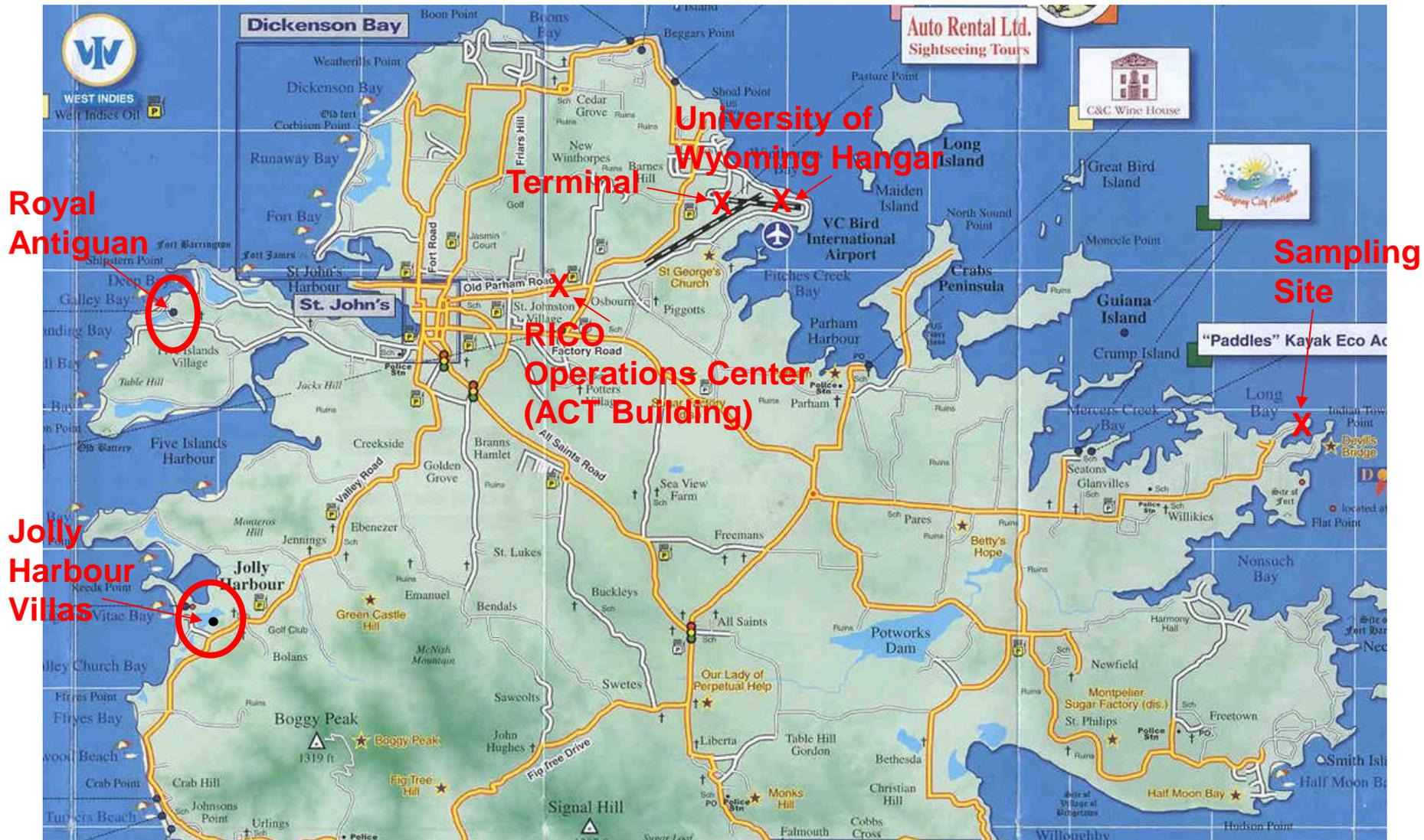
Light Vegetable Barley Soup  
Tex-Mex Salad Plate  
Roma Panini with Pasta Salad  
Jamaican Jerk Pork Loin with Fruit  
Salsa, Black Beans & Rice

**Breaks:** There will be continental breakfast provided in the building's lobby beginning at 8am on both days. There will be an afternoon break of cookies and cold drinks at 2:30pm on Wednesday, and a reception with beer, wine and snacks beginning at 5:30pm on Wednesday.

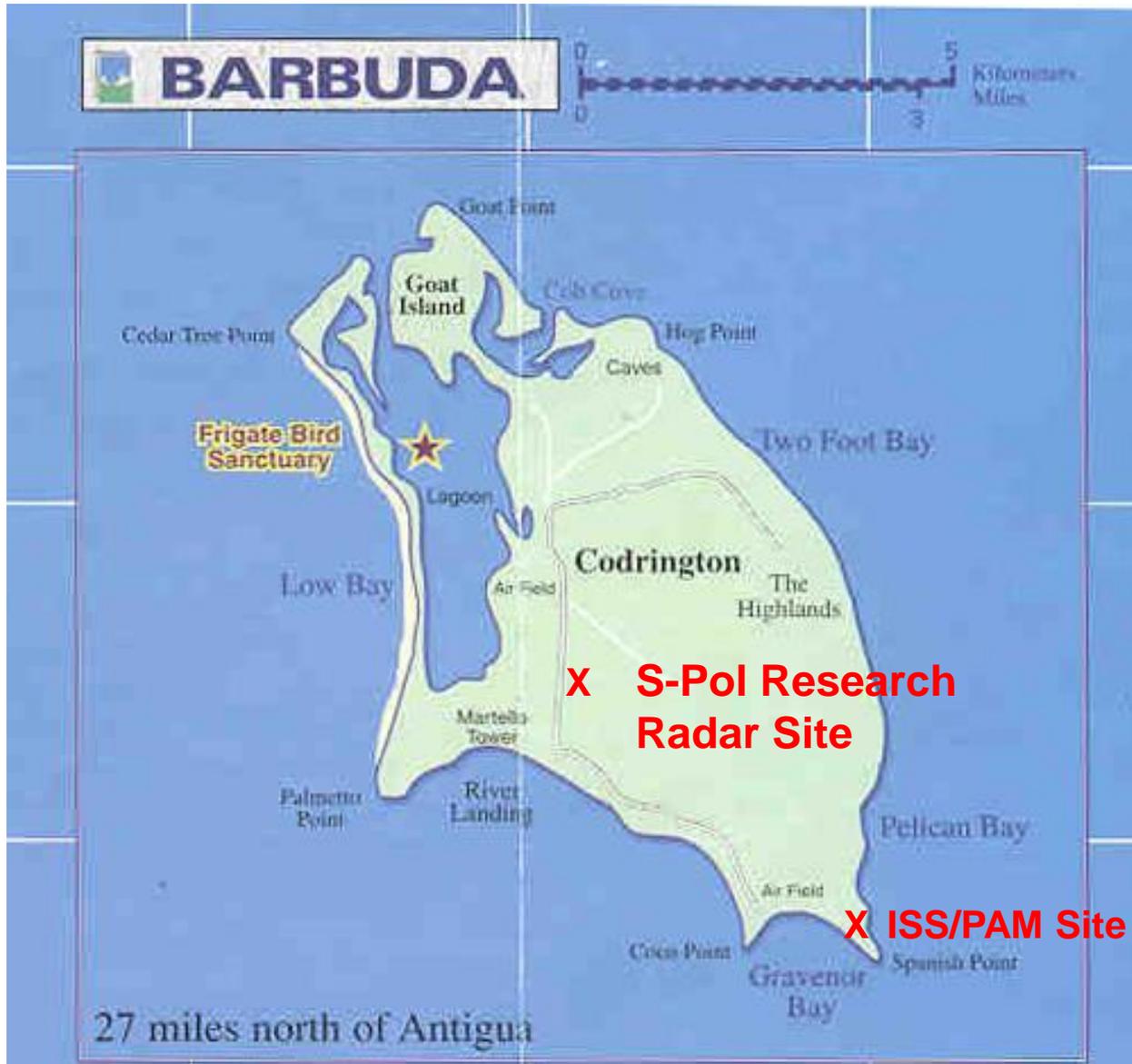
**There is no printer or copier in this building.** If you need something printed or copied, please email it to Sara Metz with instructions at [smetz@joss.ucar.edu](mailto:smetz@joss.ucar.edu)

# **RICO Facilities Introduction**

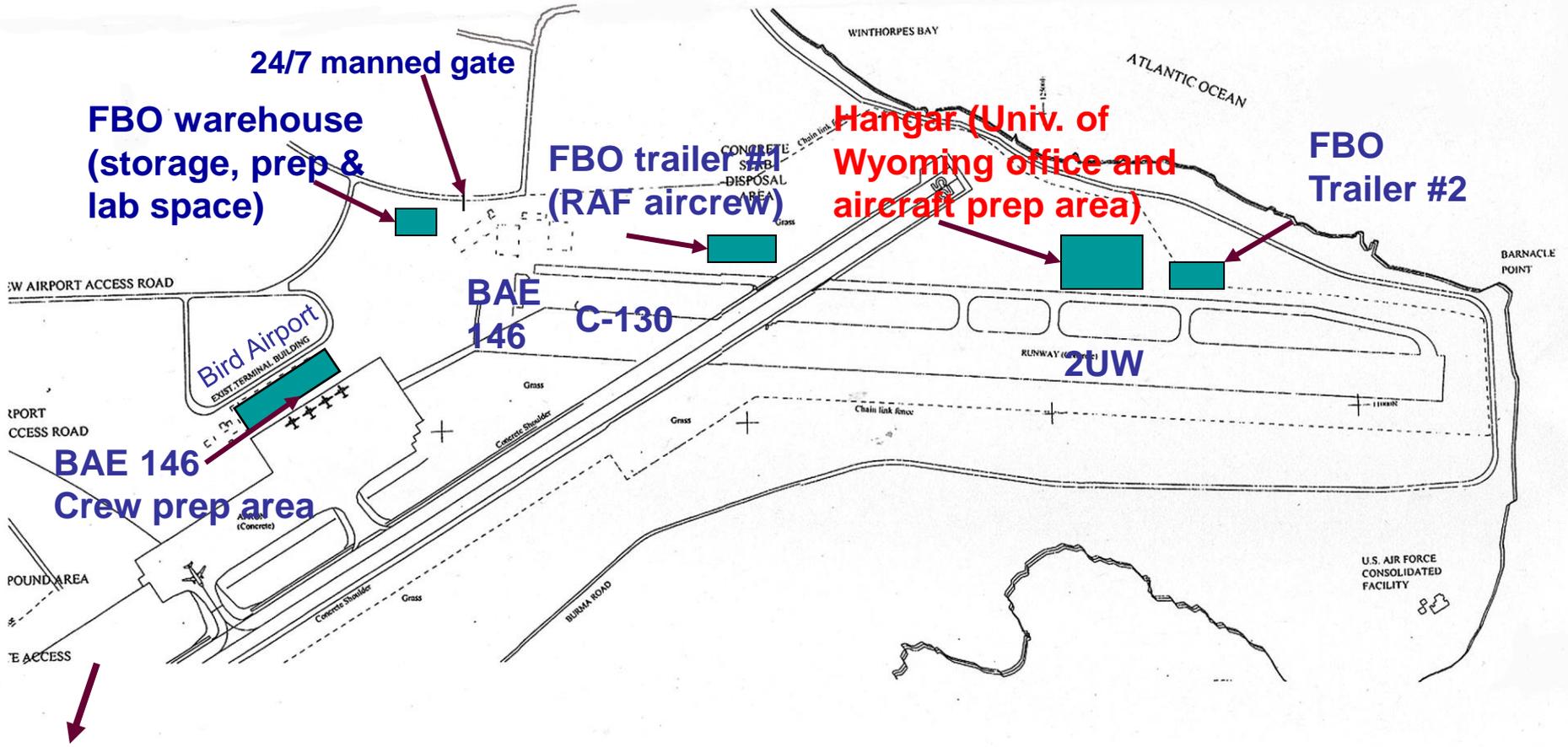
# Antigua



# Barbuda



# RICO Project Preliminary Support Facilities Layout Bird Airport



**(RICO Operations Center)  
ACT Building (3-4 miles)**

# RICO Facilities at V.C. Bird International Airport

- Univ. of Wyoming K/A Aircraft and Support
- NCAR C-130 Aircraft and Support
- UK BAE146 Aircraft and Support
- Aircraft facilities and support equipment storage
- Project hazardous materials storage
- Laboratory space for airborne sensor maintenance and in-field sample analysis

# RICO Operations Center Facility Support

- Main meeting space for Daily Planning Meeting, Seminars and Mission Briefings/Debriefings
- Forecast/Nowcast center
- Operations coordination area
- Analysis center (scientist workstation space)
- Specialized workstations (IDV, SPOL, Email/Webserver, etc)

# **Facilities Communications and Logistics**

# Operations Center Layout

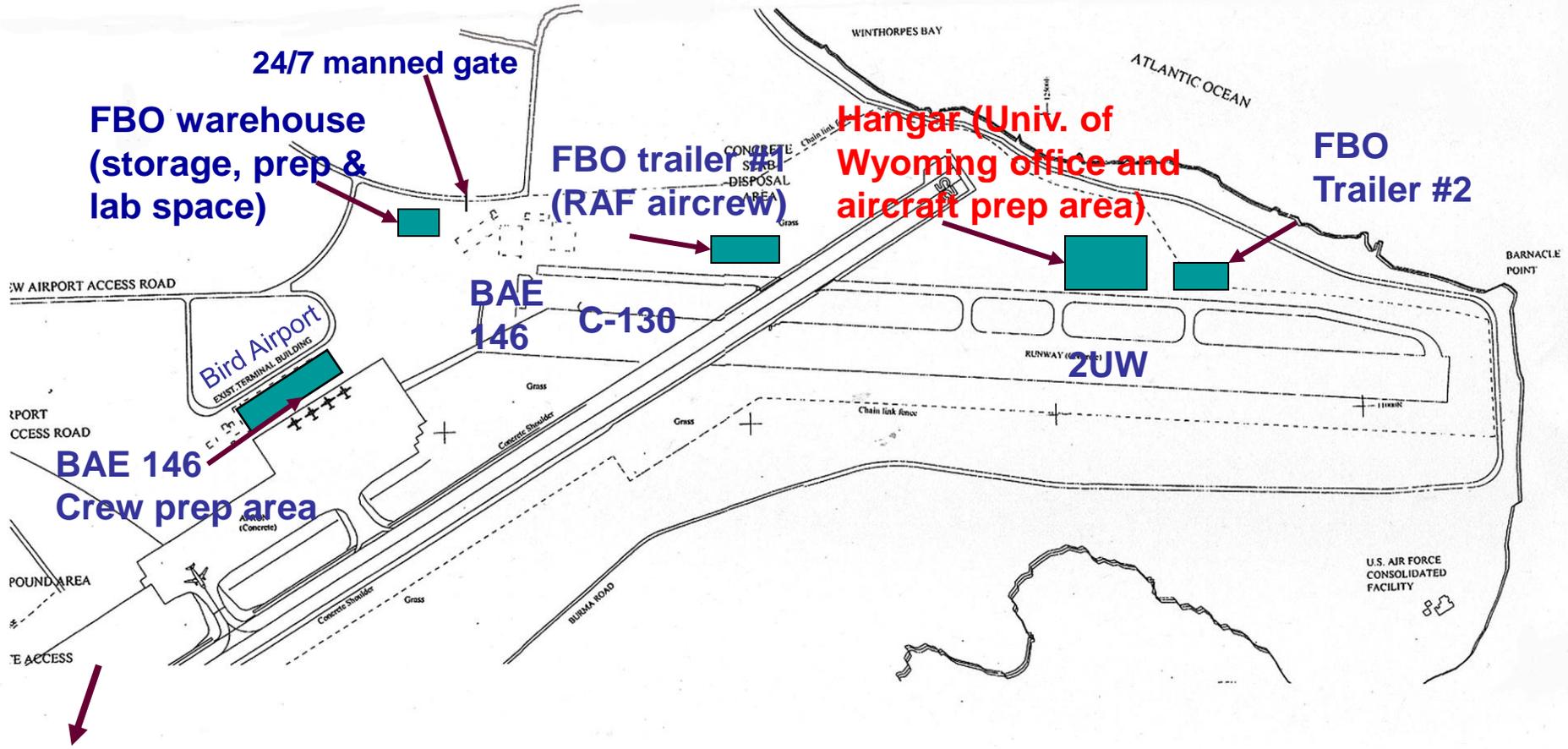


- 2000 sq. feet total space
- 110v/60Hz “US” outlets
- 24/7 access and back-up power
- Secure building
- Adjacent parking

# Operations Center Functions

- Main meeting space for Daily Planning Meeting, Seminars and Mission Briefings/Debriefings
- Forecast/Nowcast center
- Operations coordination area
- Analysis center (scientist workstation and desk space)
- Specialized workstations (IDV, SPOL, Email/Webserver, etc)

# RICO Project Preliminary Support Facilities Layout Bird Airport

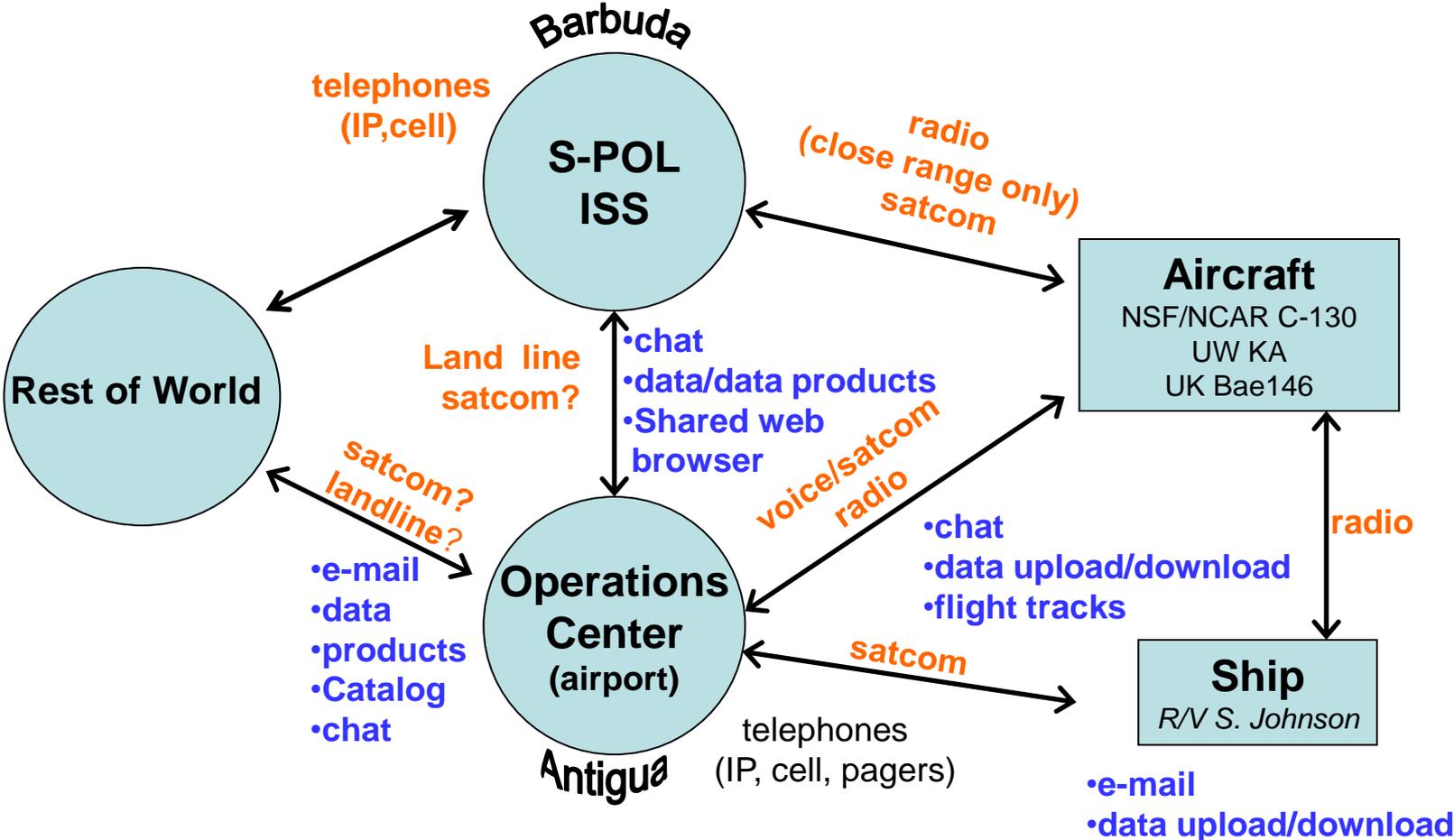


**(RICO Operations Center)  
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# Airport Functions

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# RICO Communications Schematic



# Mission Planning

# Mission Scientific Staff

Science Director

Mission Scientist

Flight Scientist

Ship Chief Scientist

SPOL Chief Scientist

Scientific Operator/Observer

# Operations Coordination Team

Operations Director

Aircraft Coordinator

Surface Observing Systems Coordinator

Antigua Site Coordinator

Barbuda Site Coordinator

Communications/Networking Coordinator

In-Field Data Management Coordinator

Weather Forecaster/Nowcaster Coordinator

# Staffing Table

(as of 9/1/04)

## FUNCTION

Science Director (SD)

Mission Scientist (MS)

Operations Director (OD)

Aircraft Coordinator (AC)

Sfc Obs Systems Coord

Antigua Site Coordinator

Barbuda Site Coordinator

Comms/Network Coord.

Field DM Coord.

Forecast/Nowcast Coord

## PARTICIPANT

Rauber, Ochs, Stevens

Rauber, Ochs, Stevens

Dirks, Moore, Stossmeister, Williams

Moore, Dirks, Stossmeister, Williams

Dirks, Moore

Bauerle, Gates...

Daniels, Bradford, Russ,..

Stossmeister, Roberts, Williams

Rauber, Stevens, Trapp

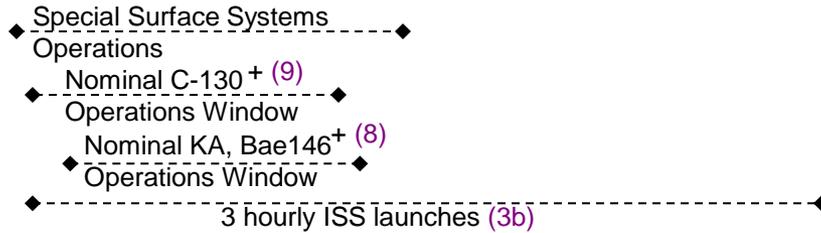
# Daily Planning Meeting Content

- Status of aircraft, mobile facilities and remote observing systems
- Data management and communications status report
- Forecast discussion from 24-36 hours, special products; outlook to 72 hours
- Report on the status of scientific objectives and results of the last mission and/or update on the status of an on-going mission
- Mission Selection, staff assignment, and schedule of operations
- Logistics or administrative matters
- Other announcements

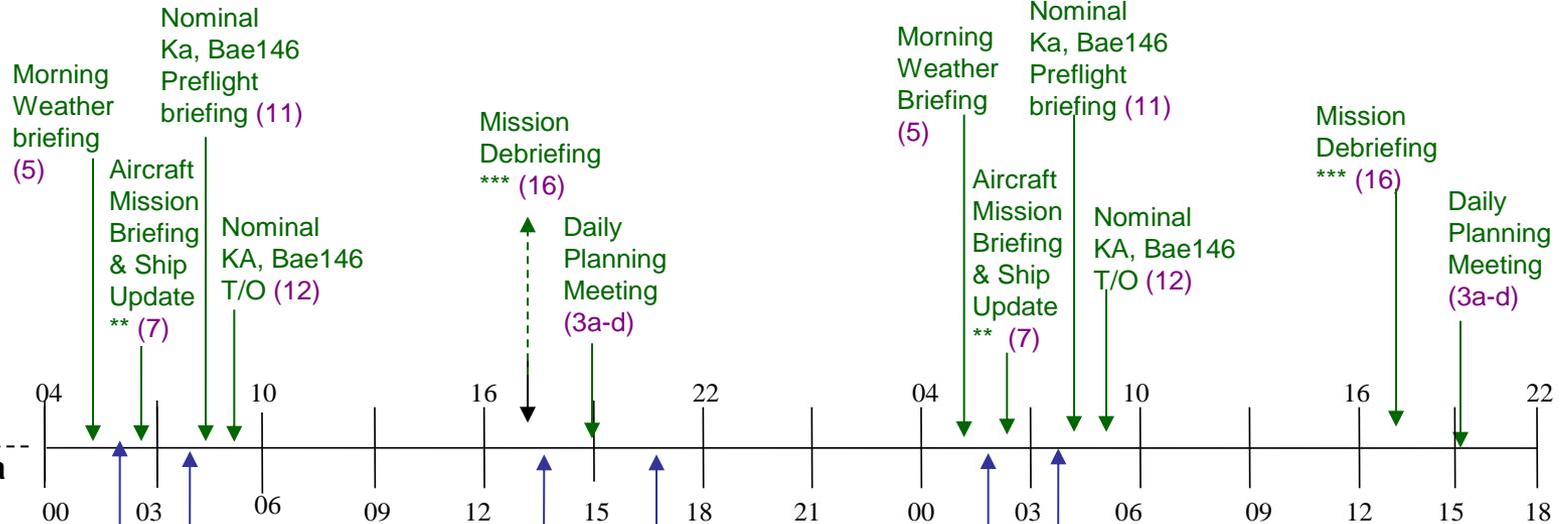
# RICO Daily Planning/Operations Scenario

(Numbers refer to timeline description in Sec. 4.4)

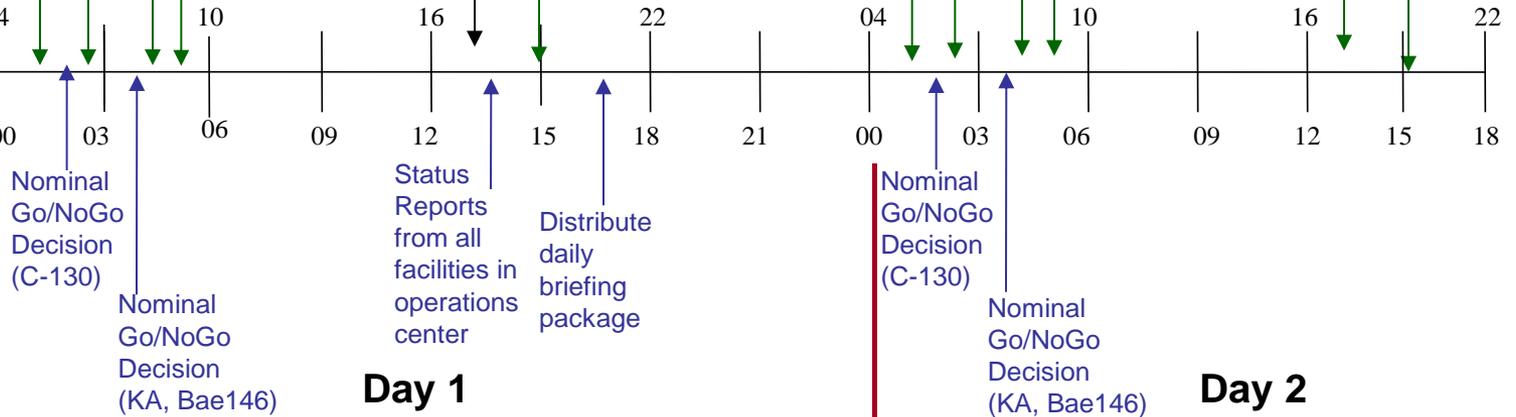
## Operations



## Meetings



## Reporting



Day 1

Day 2

- \* As required
- \*\* Pre-flight briefing for air crew/scientists ~90 min. before takeoff
- \*\*\* Flight debriefing should occur within 30 minutes of landing
- + All science flight crew at airport ~1 hr before planned departure

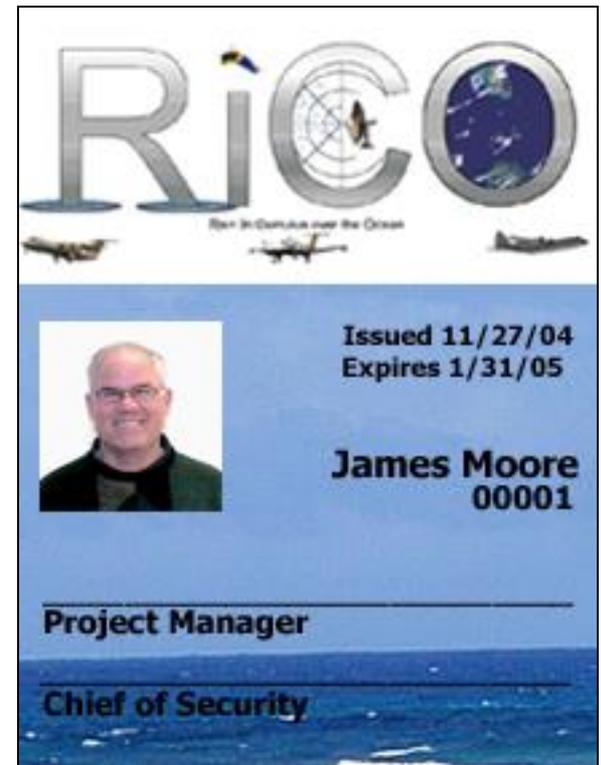
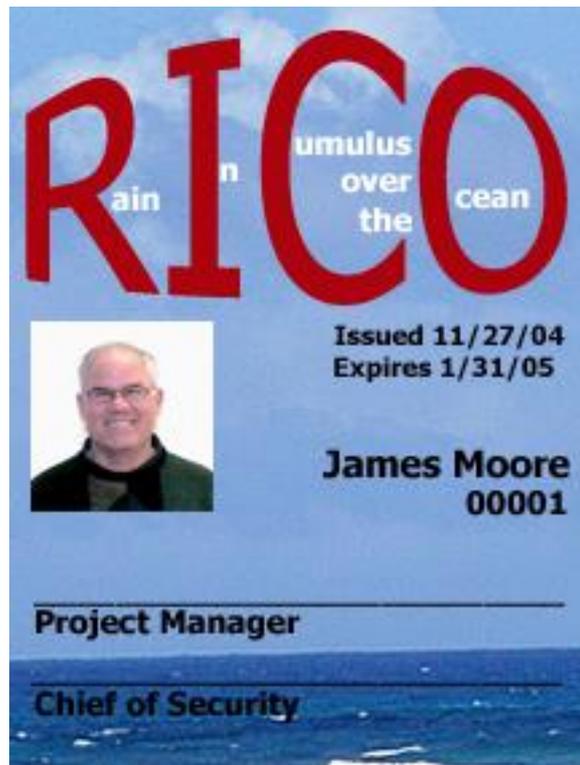
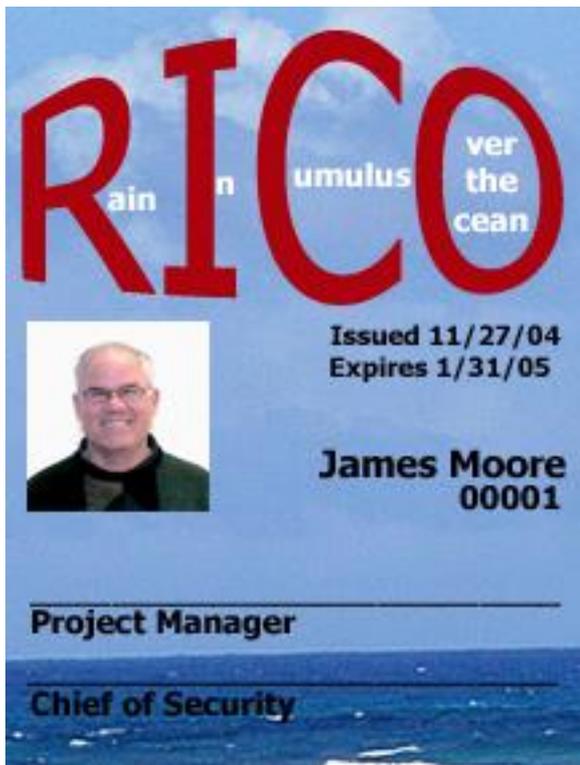
# RICO Forecast Support

- Planning and conduct of aircraft flight and ship operations in and around precipitating cumulus clouds
- Provide forecasting and nowcasting support from 5-20 December 2004 and 2-24 January 2005
- Developing 12-48 hr planning forecasts for this domain
- Short-term forecasting including generation of 1-12 hr guidance
- Nowcasting in the very short-range (0-1 hour) and extrapolation of mesoscale weather conditions
- A 2 person forecast team is envisioned
- Forecasts include general flow and stability regimes, airmass and mesoscale boundaries, and general convective weather conditions
- Test and evaluation of forecasting and nowcasting techniques and model products



# Logistics – Personal

- US citizens do not need a visa and are exempt from work permit requirements
- Duty-free import of scientific equipment, computers, and expendables. A complete list of all equipment to be imported must be submitted to the Customs Department and the Ministry of International Transportation prior to arrival in Antigua.
- Waiver of aircraft parking/ramp fees has been received. A 50 % reduction in landing fees has been approved.
- Security (Airport, ACT): 24/7 access, keys and entry cards (for vehicles) will be provided, badges for participants will be prepared by JOSS and issued by the VCBI Airport Security Office.



**RICO Security Badge mock-ups**

# Shipping

Shipping destination address for RICO (sent to “self” in care of FBO):

Your name

Your facility

In care of FBO 2000 Antigua, Limited

V.C. Bird International Airport

St. John's, Antigua

There is also a freight forwarder that was recommended. The name is:

Caribbean Forwarders, Limited

Attn. Foster George

Phone 268-480-1106

# RICO Lodging Information

- **Royal Antiguan Resort** ([www.eliteislandresorts.com](http://www.eliteislandresorts.com))

35 rooms blocked: 20 standard @ \$110 per night, 15 bayview @ \$139/night. Taxes are included in this rate; meals are not.

## Hotel rooming list (as of 8/31/04):

NAME	CHECK-IN	CHECK-OUT
ALBRECHT	12/1/2004	12/21/2004 (2 rooms)
BOYNTON	12/1/2004	12/21/2004 (2 rooms)
CALVIN	12/3/2004	12/16/2004
CAMPOS	12/4/2004	12/21/2004
CUSACK	12/4/2004	12/21/2004 (2 rooms)
DANIELS	12/4/2004	12/21/2004
EAGAN	12/4/2004	12/21/2004 (2 rooms)
EMMETT	12/4/2004	12/21/2004 (2 rooms)
GATES	12/4/2004	12/21/2004 (4 rooms)
GENZLINGER	12/4/2004	12/21/2004 (2 rooms)
GERBER	12/4/2004	12/21/2004 (2 rooms)
HOLDEN	12/4/2004	12/21/2004
HUDSON	12/4/2004	12/21/2004 (3 rooms)
IRWIN	12/4/2004	12/21/2004 (2 rooms)
JENSEN	12/5/2004	12/20/2004
JENSEN	12/5/2004	12/21/2004
KORN	12/7/2004	12/21/2004
KORN	1/3/2005	1/12/2005
LASHER-TRAPP	1/3/2005	1/18/2005
MAYOR	1/3/2005	1/22/2005
MCFARLAND	1/3/2005	1/25/2005 (2 rooms)
MORLEY	1/3/2005	1/25/2005
NICOLL	1/3/2005	1/26/2005 (2 rooms)
OLSON	1/3/2005	1/26/2005 (2 rooms)
RAGNI	1/3/2005	1/26/2005

NAME	CHECK-IN	CHECK-OUT
RINGLEMAN	1/3/2005	1/26/2005 (2 rooms)
ROCHESTER	1/3/2005	1/26/2005
ROGERS	1/3/2005	1/26/2005 (2 rooms)
SCANNELL	1/3/2005	1/26/2005
SCHANOT	1/3/2005	1/26/2005 (2 rooms)
SHERTZ	1/3/2005	1/26/2005
SPOWART	1/3/2005	1/26/2005
STEPHENS	1/3/2005	1/26/2005
STITH	1/3/2005	1/26/2005 (2 rooms)
STRONG	1/4/2005	1/25/2005
WEBSTER	1/9/2005	1/14/2005
WEBSTER	1/15/2005	1/16/2005



# RICO Lodging Information

- **Jolly Harbour Villas** ([www.jollyharbour-marina.com](http://www.jollyharbour-marina.com))

12 units blocked: 1-2 person units @ \$125 per night, 3-4 person units @ \$150/night. 18.5% taxes is not included in this rate; neither are meals or maid service.

## Villa rooming list (as of 8/30/04):

NAME	No. in villa	Arr.	Dep.
ANDERSON	2	11/29/04	12/21/04
ANDERSON	2	12/1/04	12/21/04
BLYTH	2	12/1/04	12/21/04
BLYTH	2	12/1/04	12/21/04
BURNETT/BREN-UIER	2	12/1/04	12/21/04
BURNETT/BREN-UIER	2	12/3/04	12/21/04
COTTON/ZAROVY	3	12/4/04	12/21/04
DIRKS	2	12/1/04	12/21/04
HEIKES	3	12/5/04	12/21/04
HEIKES	2	12/5/04	12/21/04
KRUEGER	2	12/8/04	12/21/04
LASHER-TRAPP	2	12/12/04	12/21/04
LASHER-TRAPP	3	1/3/05	1/25/05
LAWSON	2	1/3/05	1/25/05
LAWSON	2	1/3/05	1/26/05
LAWSON	3	1/3/05	1/25/05
LAWSON	3	1/3/05	1/26/05
MOORE	3	1/3/05	1/26/05
OCHS	2	1/3/05	1/25/05
OCHS	2	1/3/05	1/25/05
OCHS	2	1/3/05	1/25/05
OCHS	2	1/3/05	1/25/05

NAME	CHECK-IN	CHECK-OUT
SMALL/CHUANG	2 1/3/05	1/26/05
STEVENS	2 1/3/05	1/25/05
STEVENS	2 1/3/05	1/26/05
THORNTON	2 1/4/05	1/18/05
TWOHY/RAGNI	3 1/11/05	1/22/05



# Did you see a mistake with your reservation?

If so, please contact the property at which you made your reservation:

## Royal Antiguan

Janine Hills

Tel: 800-345-0356 *or*  
954-481-8787 ext. 126

Fax: 954-481-1661

Email:

[jhills@eliteislandresorts.com](mailto:jhills@eliteislandresorts.com)

## Jolly Harbour

Annie Liverpool

Tel: 268-462-6166

Fax: 268-462-6167

Email:

[jollyhbr@candw.ag](mailto:jollyhbr@candw.ag)