

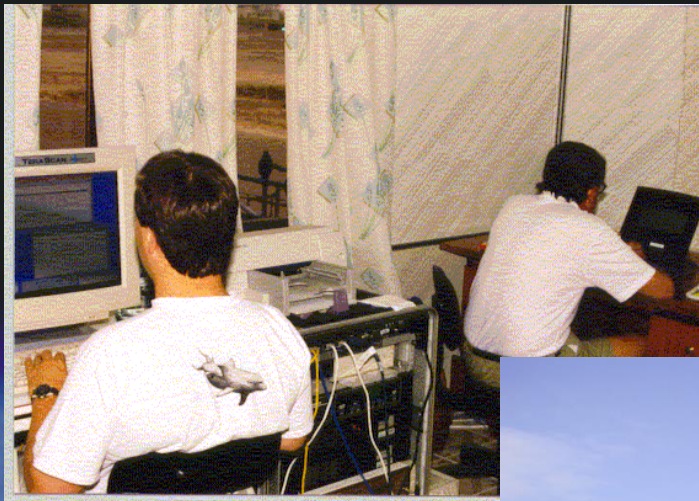
JOSS Portable Satellite Receiving Station

Reception Capabilities:

GOES, Meteosat, GMS, MTSAT data

HRPT data from NOAA POES

SeaWiFS data



JOSS Portable Satellite Receiving Station

Previous deployments:

Male, Maldives – INDOEX

Iwakuni, Japan – ACE-Asia

Huatulco, Mexico – EPIC 2001

Continuous reception of GOES-W in cooperation
with NCAR/RAP

JOSS Portable Satellite Receiving Station

System Specifics:

- Dual Receivers allow simultaneous reception of Geostationary and Polar Orbiter telemetries
- Capable of 24/7 Operations
- On-site archival to DAT tape
 - NOAA POES
 - SeaWiFS
- GOES archival to NCAR Mass Store
- SeaWiFS decryption requires temporary real-time license

JOSS Portable Satellite Receiving Station

System Specifics:

- Terascan software

Rapid processing of incoming data

Interactive capabilities

Image analysis and manipulation

Re-navigation

Looping

Overlays

Ability to sector, generate specialized products

SST

Color Composites

AOD, etc.

Ability to view Sounder data

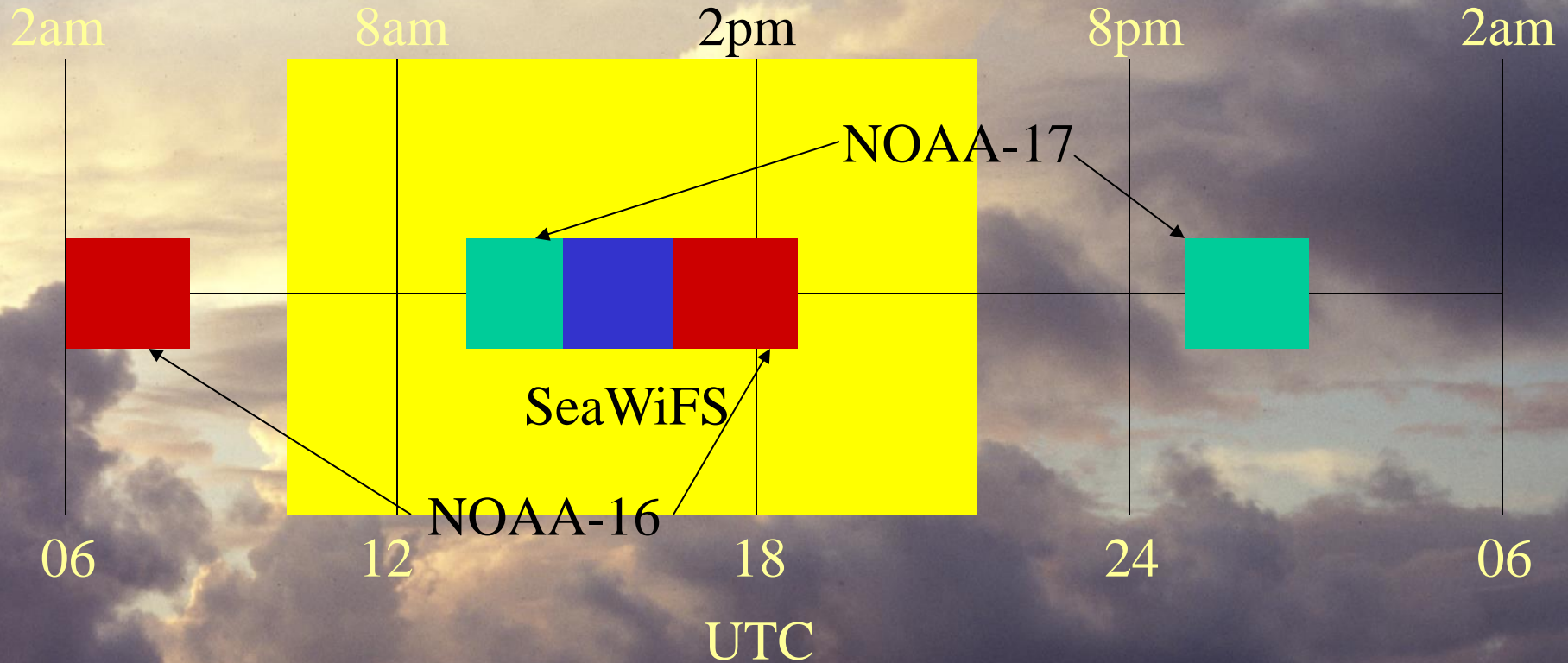
1615

8.5

11.3

RICO Overpasses – AVHRR and SeaWiFS

Antigua Local Time (-0400)



Sunrise 1020-1040 UTC

Sunset 2130-2200 UTC

NOAA-12, 14, 15 – backup
NOAA-18 – Oct 2004 Launch

JOSS Portable Satellite Receiving Station

Satellite Data Collection Issue for RICO

Portable system in Antigua

- Satellite data files on site
- Data available with little delay
- Ensure all available HRPT, SeaWiFS data collected
- Ability to deal interactively with data at the Ops Center

Data collection in Boulder

- GOES data only
- Images only sent to Field
- Limited product set
- Imagery may be delayed
- HRPT, SeaWiFS data may not be collected
- No interactive capabilities in the field

JOSS Portable Satellite Receiving Station

Other Satellite Data Issues for RICO

Need more input on satellite data needs – Data Questionnaire

http://www.joss.ucar.edu/cgi-bin/rico/q_dataneeds

RICO Sector definition

Need for Super Rapid Scan from GOES-12?

- Normal GOES coverage of RICO area is half-hourly
- SRSO is 1-min resolution but max 8 scans at a time, max 6 hours/day.

Data Format

McIDAS Area?

Terascan TDF?

Example of Super-Rapid Scan Strategy

10:30:00 CONTINENTAL US (CONUS) 4:43

10:35:00 SRSO SECTOR 8:00

10:45:00 NORTHERN HEMISPHERE 9:44

10:55:00 SRSO SECTOR 1:00

10:59:05 CONTINENTAL US (CONUS) 4:43

11:04:00 SRSO SECTOR 8:00

11:15:00 NORTHERN HEMISPHERE 9:44

11:25:00 SRSO SECTOR 1:00

11:30:00 CONTINENTAL US (CONUS) 4:43

11:35:00 SRSO SECTOR 8:00

11:45:00 FULL DISK 26:06

12:15:00 NORTHERN HEMISPHERE 9:44

12:25:00 SRSO SECTOR 1:00

12:30:00 CONUS 4:00

12:45:00 NORTHERN HEMISPHERE 9:44

12:55:00 SRSO SECTOR 1:00

12:59:05 CONTINENTAL US (CONUS) 4:43