

# **Program Scientist Perspective**

- **The LCLUC program continues to be a vibrant and important part of the NASA earth science program**
- **The program has continued to grow, due to cross-cutting of a number of programs and focus areas**
- **LCLUC has benefited from a Science Team approach – developing a sense of community in a strongly diverse and fragmented discipline**
  - **Good response to diverse NRA's – a sense of program direction**
  - **The long awaited Book !**
  - **Thematic workshops and group proposals**
- **The initial investment in process case studies has shifted more towards impacts and modeling**
  - **ESE's emphasis on physical science – reviewers**
  - **Community responsiveness**
  - **There remains a need for process studies to drive regional models**

# Program Scientist Perspective (Cont'd)

- **LCLUC strategy has been to develop partnerships with other agencies able to invest in other aspects of Land Use Land Cover Change (LULCC) research – through USGCRP/CCSP Land Use Interagency Working Group (LUIWG)**
  - Program partnerships being actively sought – joint NRA's
  - Developing a common research agenda for USG agencies – Strategic Science Plan and Community recommendations
  - Community leaders have helped provide program guidance – now being formalized in to an advisory group
  - Activities planned e.g. community review of land use modeling
- **NASA has a major role to play in terms of space observations of land cover**
  - Moderate Resolution in good shape (MODIS>VIIRS)
  - High Resolution heading for a crisis (L7 > ???? > NPEOSS)
- **LCLUC societal relevance provides an opportunity for NASA**
  - However early, proactive attempts to partner with NASA Applications program did not work

# **Program Scientist Perspective (Cont'd)**

- **LCLUC has maintained a balanced international perspective**
  - **Interaction with IGBP/IHDP LUCC > Land Project**
  - **Support of the IGOS Agenda through GOFC/GOLD and IGOL is strategically important as Observations are getting more national and international attention (GEO/GEOS)**
  - **Active participation in regional Initiatives with strong land cover components – LBA, NEESPI, CARPE**
    - **Need to strengthen link to NACP Landcover - invite NACP PI's to participate in LCLUC ST meetings**
  - **Fostering linkages with other International Science Programs e.g. GEWEX, Global Carbon Project**

# Current Concerns

- **The future of Earth Science at NASA!**
  - NASA has a unique role to play in earth observations in terms of technology development, science and operational applications prototyping
  - Other agencies are not positioned to replace this role for land remote sensing
  - Recognizing NASA is a Space Agency
    - In terms of planetary ‘priorities’ - at this time there is nothing more important than understanding the changes taking place on Planet Earth
  - Land cover/land use change is the one of the most immediate and important forms of global change
  - The community needs to send this message to those who can influence the agency’s direction

# High Resolution Observation Capabilities (Landsat)

*An LCLUC GOAL - develop the capability to perform repeated global inventories of land-use and land-cover from space, to develop the scientific understanding and models necessary .....*

- High resolution data (10-30m) is the principle means for measuring regional LCC (clearly LCLUC is not the only rationale for Landsat capability)
- The current state of the Landsat program prevents us from meeting this goal
- Landsat 5 and 7 are on their last legs - we are on the brink of an unprecedented data gap - an LCDM proposal was rejected in 2003
- There are now plans for a Landsat capability on NPOESS (late 2009 or later) which would provide a necessary operational status for the observations but there has been little information to the community on what exactly this capability would be and which observation requirements would be met (heritage of MODIS/ASTER synergy?)
- Proposals within NASA for a bridging mission prior to NPOESS have recently been rejected – this is an important mission for LCLUC
- A Data Gap Study is underway led by NASA HQ to assess the options for obtaining the necessary observations using the available national and international assets – report due in February 05
- This meeting provides a unique opportunity for discussion of LCLUC community coordination in response to this current situation

# Maintaining Program Momentum

## Active community participation is essential

- Good and compelling research – outreach of results
- Providing quality peer review – papers and proposals
- Organizing community workshops
- Sharing data
  - Satellite and Field Data - Prog. Scientist will be contacting PI's
  - Utilize the REASON projects
- Helping program management promote the importance, relevance and achievements of the research and the program
  - Significant Science results is an integral part of this
  - Keeping the LCLUC Web site up-to-date
  - Working within the constraints of diverse funding mechanisms
- Participating in the agency and interagency advisory process
  - helping LUIWG succeed
- Raising community concerns at the right level
- Providing program feedback and new ideas – THIS MEETING

# **LCLUC MEETING Logistics**

- **The conference center is located at 3501 University Blvd, East (Room 2100/2102/2104)**
- **Rooms 2109 & 2117 are for posters - we have these room for the entire meeting**
- **Lunch will be provided on site at the Mount Clare Café. Meal tickets will be passed out as we break for lunch.**
- **Parking is complimentary. As you leave the garage, inform the attendant that you're with the LCLUC Science Team Meeting.**
- **Make sure your presentation is saved to the main laptop prior to your talk**
- **Questions about or information for the LCLUC Web Site – See Deirdre Smith**
- **Other logistical questions – Regina Oglesby**

# **Wireless Internet Capability**

**All wireless cards that will connect to the UMUC wireless network require these 2 pieces of info:**

**SSID: GUEST-NET (This must be in all caps)**

**Key: 1wifi (that's the number 'one' as the first character)**

**Hex key: 3177696669 (same key as '1wifi' but in hexadecimal for some cards)**