

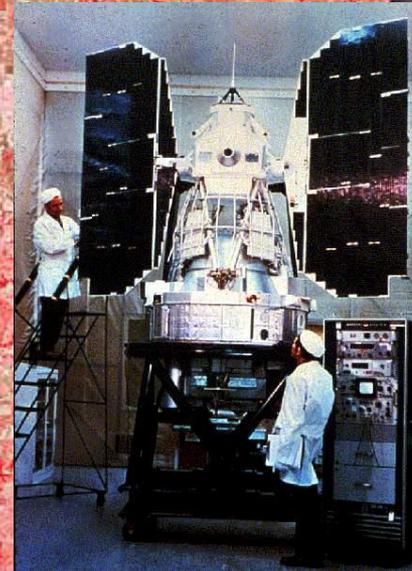


# 2015 International Workshop on Evapotranspiration Mapping for Water Security

## Workshop Objectives

Forrest Melton  
NASA ARC-CREST  
[forrest.s.melton@nasa.gov](mailto:forrest.s.melton@nasa.gov)

# First Landsat Scene July 25, 1972



Dallas

Trinity River



## IBM announces the new 5100 Portable Computer

A compact problem-solving aid for engineers, statisticians, scientists and financial and business analysts.

Now you can have a computer right on your desk. Compact, where you need it, when you need it. The new IBM 5100 Portable Computer is the most compact, powerful, and portable computer ever designed. It features a built-in keyboard and a 10.5 inch color display screen. An optional magnetic tape drive and 100,000 characters of memory.

Optional accessories with the 5100 include a 1600 baud communications adapter, a printer, a communications adapter, and additional memory options. IBM 5100 is the most powerful portable computer available in a communications feature which allows the 5100 to be used as a terminal.

The 5100 is compatible with other AT, or BASIC, languages. It is also compatible with other languages. IBM 5100 is the most powerful portable computer available in a communications feature which allows the 5100 to be used as a terminal.

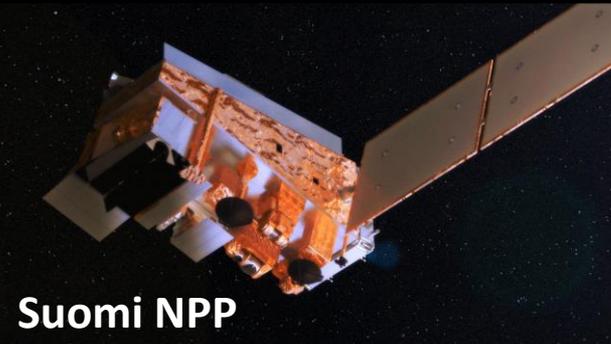
**IBM**  
International Business Machines Corporation  
110 North Dearborn Street  
Chicago, Illinois 60601  
Telephone: (312) 499-1000  
Teletype: (312) 499-1000  
Cable: 5100  
Fax: (312) 499-1000

# First Landsat 8 Composite for the U.S. March, 2013

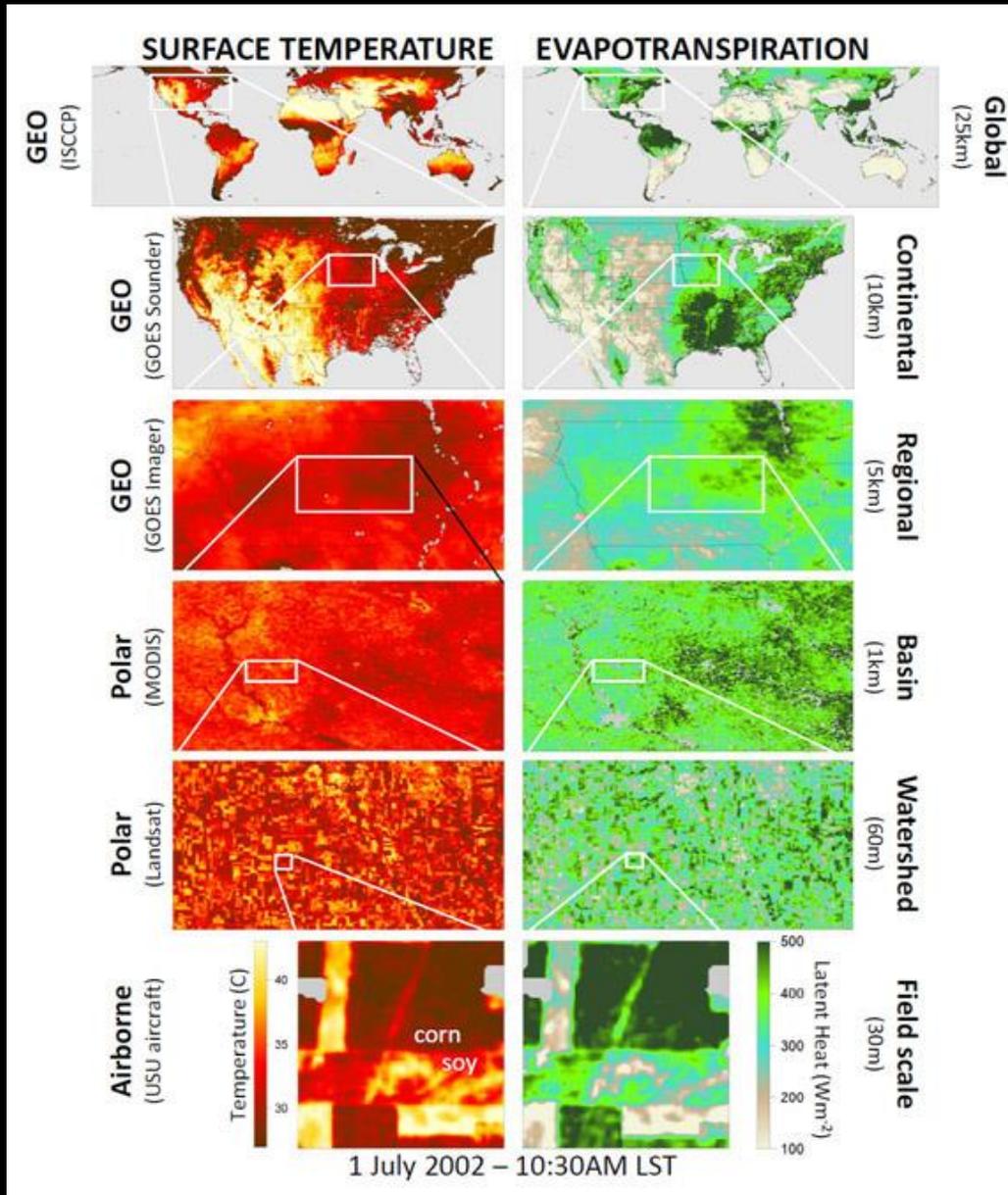


500 km

# Remote Sensing Platforms for Mapping ET



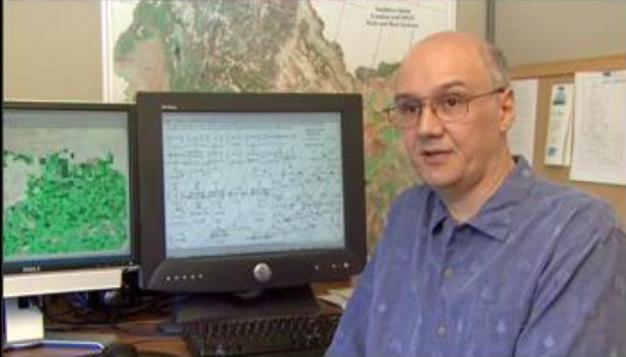
# Applications of ET



- Water Planning
- Aquifer Depletion
- Water Rights Compliance
- Agricultural Water Use
- Irrigation Management
- Nutrient Management
- Hydrologic Modeling
- Endangered Species
- Legal Finding-of-Fact
- Water Rights Buy-Back
- In-Season Water Demand
- Tribal Water Rights Negotiations
- ... and more ...

Figure: Martha Anderson, USDA ARS

# Paving the Way



# Workshop Objectives

1. Raise awareness among U.S. and international water resource managers and other stakeholders of the potential benefits of using satellite-based mapping of ET.
1. Highlight successful U.S. and international examples of operational water resource management applications that use remotely sensed ET in decision-making from the field to regional scales, emphasizing the benefits and impacts for water resource management.
1. Identify opportunities to increase the use of satellite-based mapping of ET to enhance water resource security and sustainability in the U.S. and internationally.

# Workshop Objectives

4. Identify constraints on expanded use of remote sensing of ET, for example due to relatively low numbers and revisit frequencies of current field-scale satellite systems. Identify current challenges and existing barriers to use of remotely-sensed ET internationally.
5. Identify information needs and data requirements from the water resources and ET user communities to inform planning for future satellite missions, including requirements for accuracy, spatial resolution, and revisit frequency.
6. Facilitate coordination with the World Bank, USAID, and other agencies to develop a strategy for international research and applied science partnerships to address existing challenges and accelerate the use of remotely sensed ET in water resources management.

# Workshop Organizing Committee



Rick Allen, Martha Anderson, Rita Cestti, N. Harshadeep, Ayse Kilic, Bill Kustas, Forrest Melton, Tony Morse, John Tracy, David Toll, Jim Verdin



University of Idaho

