



# **“SOUTH DAKOTA”**

## **NASA-EPSCoR Program**

- Planning grants were awarded in 1999 and 2000 in the amount of \$225K per year (NASA funds) to develop a proposal to conduct NASA EPSCoR research in South Dakota.
- South Dakota submitted a proposal package to NASA in December 2000 titled "[The Use of Remote Sensing for Monitoring, Prediction, and Management of Hydrologic, Agricultural, and Ecological Processes in the Northern Great Plains.](#)"
- NASA funded three of the four proposed elements of South Dakota's proposal package in September 2001 and the SD NASA-EPSCoR Program was initiated.

### **✓ Core Grant**

**✓ Cross-Calibration of Landsat and IKONOS Sensors for Use in Precision Agriculture**

**✓ Leaf Area Index for Fire Chronosequences of the Black Hills and Southern Siberia: A Comparative Study**

**Improved Precipitation Estimation in the Northern Great Plains by Remote Sensing Approaches**



# “SOUTH DAKOTA” NASA-EPSCoR Program

- Focused on enhancement of NASA-related research in earth system science and corresponding infrastructure development to support this theme.
- Hence, the program has adopted a strategy that keys on research projects that
  - a) establish quantitative links between geospatial information technologies and fundamental climatic and ecosystem processes in the Northern Great Plains (NGP), and
  - b) develop and use coupled modeling tools to provide reliable predictions and management guidance for hydrologic, agricultural, and ecological systems of the NGP.



# **SD NASA-EPSCoR Program Management, Coordination and Evaluation**

**Director – Dr. Sherry Farwell**

**Deputy Director – Tom Durkin**

**Steering Committee**

**Technical Advisory Committee (TAC)**



# **Steering Committee SD NASA-EPSCoR**

Five-person Steering Committee provides recommendations to Dr. Farwell in regard to research priorities, partnership building, NASA linkages, and overall programmatic strategies.

## **Steering Committee Members**

Daniel Swets – Augustana College

Dave Clay – SDSU

Dennis Helder – SDSU

Lee Vierling – SDSM&T

Pat Zimmerman – SDSM&T



# Technical Advisory Committee (TAC) SD NASA-EPSCoR

TAC provides consultation, evaluation, and advice to the State NASA-EPSCoR Director, Dr. Sherry Farwell. Purposes of the TAC are to:

- **Advise on related State research and economic priorities;**
- **Assist in planning research areas that align with applicable State priorities;**
- **Provide technical and political guidance to the State NASA EPSCoR program;**
- **Identify new potential sources of cost share; and**
- **Review program progress and accomplishments.**

The TAC will meet at least once each year.



# Program Initiation Grants (PIGs) SD NASA-EPSCoR Program

- An allocation of SD's NASA EPSCoR core funding will be used to seed meritorious Program Initiation Grants (PIGs).
- Six PIG projects were awarded funds under a previous SD NASA-EPSCoR announcement, and those projects are currently underway. The TAC will hear from them today.
- The July 2003 PIG "Call for Proposals" represents the second such announcement.



# Program Initiation Grants (PIGs) cont...

## SD NASA-EPSCoR Program

- Deadline for applications for SD NASA-EPSCoR PIGs is August 15, 2003.
- Funding range of \$5,000 to \$20,000 (NASA dollars) per project will be available.
- Proposals that involve only one organization can submit a budget for a maximum of \$10,000. Collaborative projects between two or more organizations can propose a budget of up to \$20,000 of NASA funds.
- Collaborations with industry and state government are especially encouraged.
- All NASA dollars requested must be matched at a rate of 1:1 with non-federal funds.
- The SD NASA EPSCoR Program Steering Committee anticipates funding from 2 to 8 projects during next year. It is anticipated that award announcements will be made on September 15, 2003. Projects must be completed and final reports filed with the Steering Committee and the SD NASA-EPSCoR Director's Office by July 31, 2004.



# South Dakota NASA EPSCoR Travel Opportunity

Short proposals are considered to fund travel to visit NASA HQs or Centers for discussions about current and/or future research projects.

Funds can also be requested to participate in NASA-related conferences and workshops.

Requests will be considered starting August 1, 2004 and compelling requests will be awarded until funds are expended.

If travel funds are awarded, a one-two page report is required at the conclusion of the travel that summarizes the linkages to NASA personnel and/or projects as a direct consequence of the trip.





## **Success of the SD NASA-EPSCoR program will be evaluated at NASA by a set of key metrics**

- Number of new research proposals submitted from SD to NASA programs.**
- Number of new research awards received in SD from NASA along with corresponding total NASA obligations for R&D in SD.**
- Number of new research awards in SD from other Federal agencies where the funded projects are related to the State's strategic plan for earth system science.**
- Number of publications and presentations by SD personnel that describe research supported by NASA-EPSCoR and other NASA programs.**
- Number of SD investigators who travel to NASA Headquarters, Centers, and other NASA related events.**



## Metrics continued ...

- **Number of NASA scientists/engineers who visit SD to interact with investigators involved with the NASA-EPSCoR program.**
- **Number of SD NASA-EPSCoR investigators who participate in TBED.**
- **Number of State/Regional individuals who become either direct participants in the SD NASA-EPSCoR program or end-users of the results from the corresponding projects.**
- **Timely preparation of required project reports/documentation specified by the NASA-EPSCoR grant requirements.**



**More Info on  
South Dakota NASA-EPSCoR Program  
at**

**[www.sdsmt.edu/space/nasaepscor/](http://www.sdsmt.edu/space/nasaepscor/)**