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# Dark Energy Survey Collaboration Meeting

## Data Management Status

December 11, 2006  
Chicago



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NCSA -- University of Illinois at Urbana-Champaign

*National Center for Supercomputing Applications*





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# Outline

- *Progress to date*
- *Funding for the DM component*
- *Data Challenge Two*
  - *Goals and Schedule*



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# Schedule and Milestones

- ☑ DM meeting: February 20, 2006 (Urbana)
- ☑ DM Session at Collaboration meeting: May 18-20, 2006 (Barcelona)
- ☑ DM meeting: last week of August, 2006 (Urbana)
- ☑ DC2 begins (October 2, 2006)
  - Proposal to NSF – due December 20, 2006
  - DC2 ends (January 31, 2007)
  - Review (February 2007)



# 2005 DES DM Proposal to NSF

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- DES DM 2005 proposal timeline
  - Submitted September 30, 2005
  - May – June 2006 – encouraging news from NSF
  - June 30 – we were announced that the proposal won't be funded
- Main reasons cited:
  - NSF won't pay for its own telescope time – misreading of the MOU
  - why not take the computing to the data rather than taking the data to the computing
  - no firm DOE commitment
  - the need to see the entire project (DECam plus DM in one place) with description of full costs (including operations) and all sources of funding



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# Bridge Funding

- New commitment from NCSA director – 1 FTE for 1 year (FY2007)
  - 50% of Dora Cai and Patrick Duda
- New team member: Patrick Duda – middleware developer
- Greg Daues officially off the DES DM team



# DES DM Participation to Conferences

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- The Future of Photometric, Spectrophotometric and Polarimetric Standardization, May 2006, Blankenberge (Belgium)
  - Main author: Douglas Tucker
- SPIE Astronomical Telescopes and Instrumentation Conference, May 2006, Orlando, Florida
  - Main author: Choong Ngeow
- AAS 208th Meeting, Jun 2006, Calgary, Alberta
  - Main author: Wayne Barkhouse
- Canadian Astronomical Society Annual Meeting, Jun 2006, Calgary, Alberta
  - Main author: Wayne Barkhouse
- TeraGrid '06 , "Advancing Scientific Discovery", Jun 2006, Indianapolis
  - Main author: Greg Daues
- ADASS 2006 Astronomical Data Analysis Software and Systems, Oct 2006, Tucson
  - Main author: Joe Mohr
- SC2006, Nov 2006, Tampa
  - Greg Daues and Dora Cai
- AAS 208th Meeting, Jan 2007, Seattle
  - Main author: Choong Ngeow



# Data Challenge 2 Overview

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- October 2, 2006 to January 31, 2007
- Next stage of development of the DES Data Management system
- Build upon DC1
  - integrated archive
  - catalog database
  - pipeline processing system
- Plus
  - new components
  - higher levels of automation
  - quality assurance testing and fault flagging for pipeline stages
  - first attempt to meet the data quality requirements (SRD)