



DARK ENERGY  
SURVEY

# Overview of the Nov-Jan PreCam Observing Run

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Douglas L. Tucker

PreCam Observing Run Wrap-up Telecon

27 January 2011



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# The Data

- 64 nights allocated (Nov 16-Jan 20 minus Dec 24-25)
  - 0 nights lost to weather
  - 2 nights lost to software meltdown on precam1
  - 2 nights lost to shutter breaking
  - 4 nights devoted to engineering due to shutter-sticking
  - 1 night lost due to venting dewar to ambient atmospheric pressure
  - 1 night lost due to problems with installing new 12-channel DAQ card
  - 2 nights devoted to end-of-run engineering tests
- 52 nights on sky (c. 80% of the 64 nights allocated)
- ~24,000 images



# Original PreCam Survey Strategy

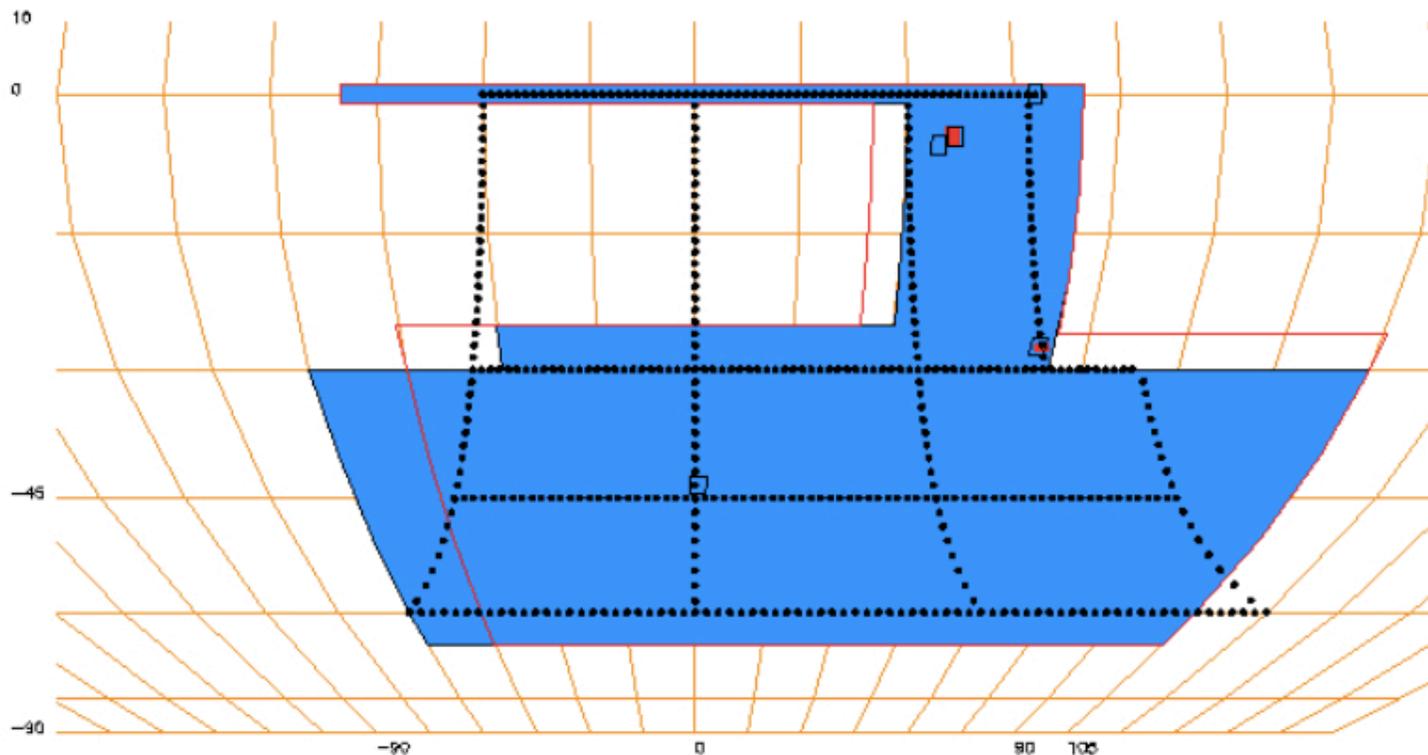
(Jim Annis, des-doc#4559-v9)

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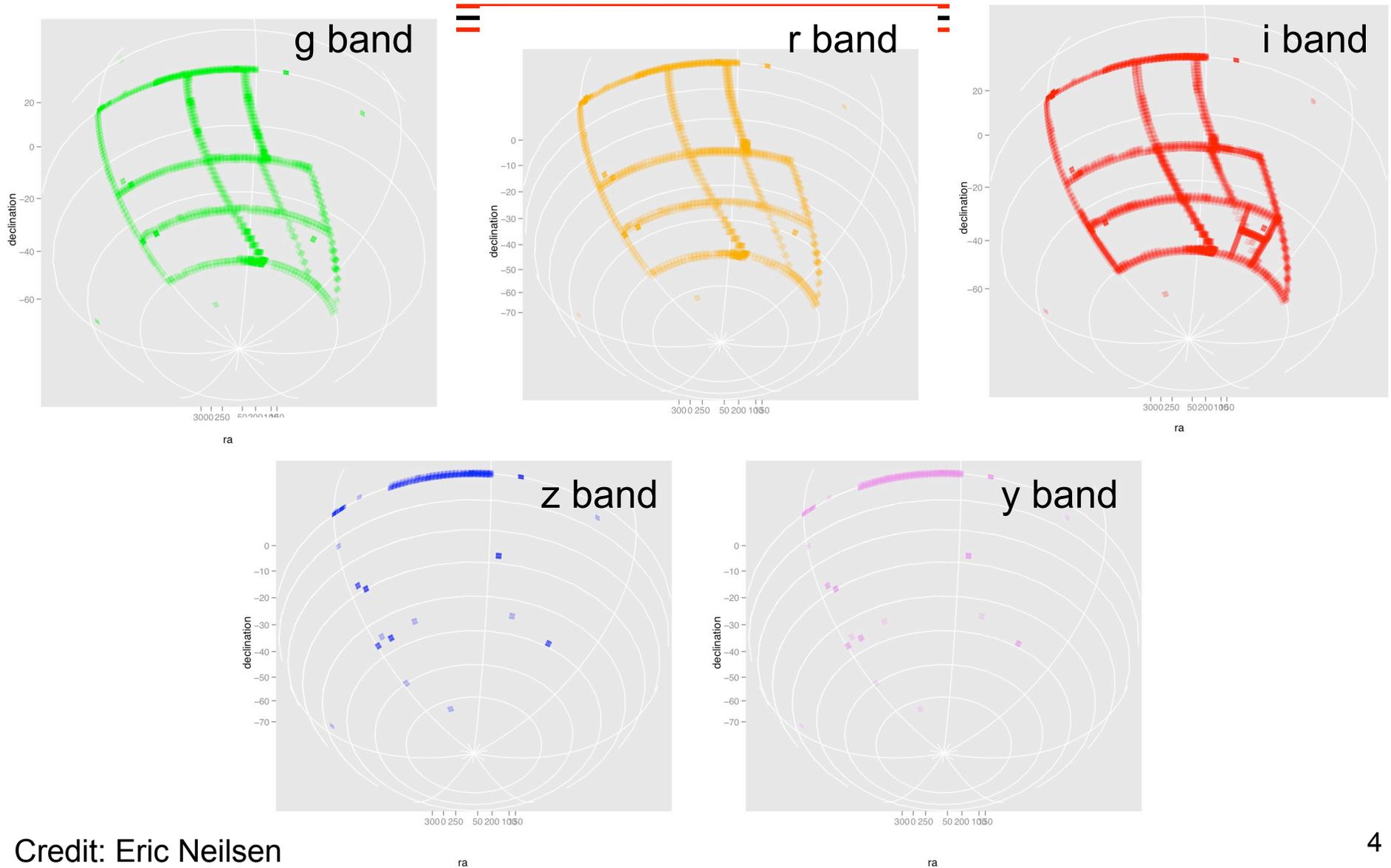
I. Sept 15-Sept 27, Nov 16-30, Dec 9-Jan 24 is devoted to observing  $30^\circ$  grid



version 5  
modified  $30^\circ$  grid  
454 hexes  
~6 tilings



# PreCam ObsTac Coverage



Credit: Eric Neilsen

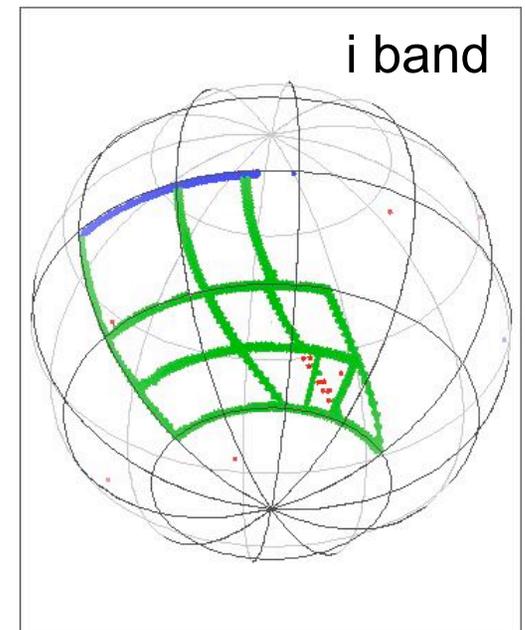
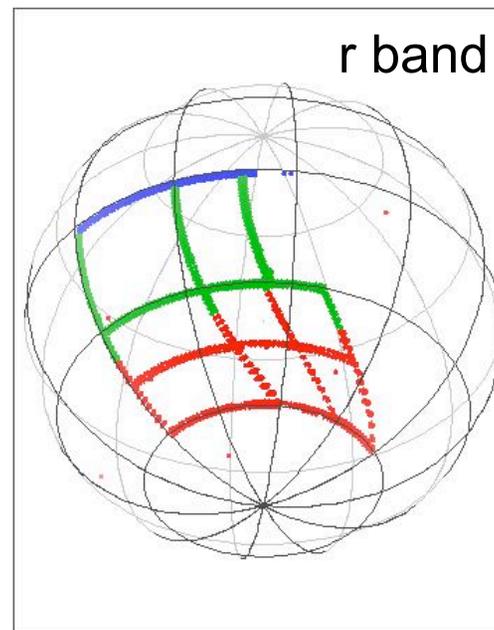
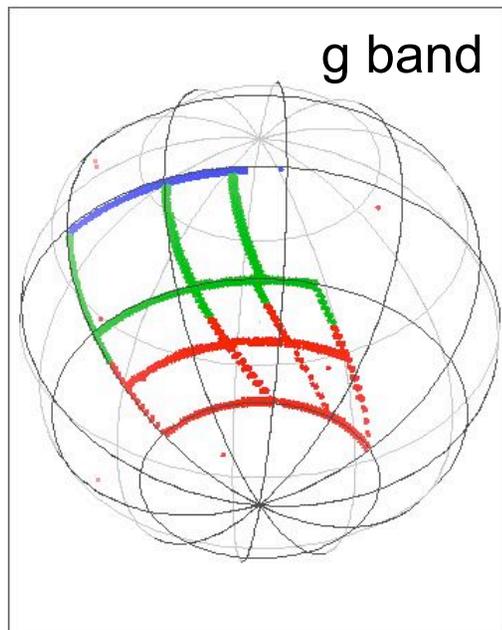


# PreCam ObsTac Linkage: Friends-of-Friends Algorithm

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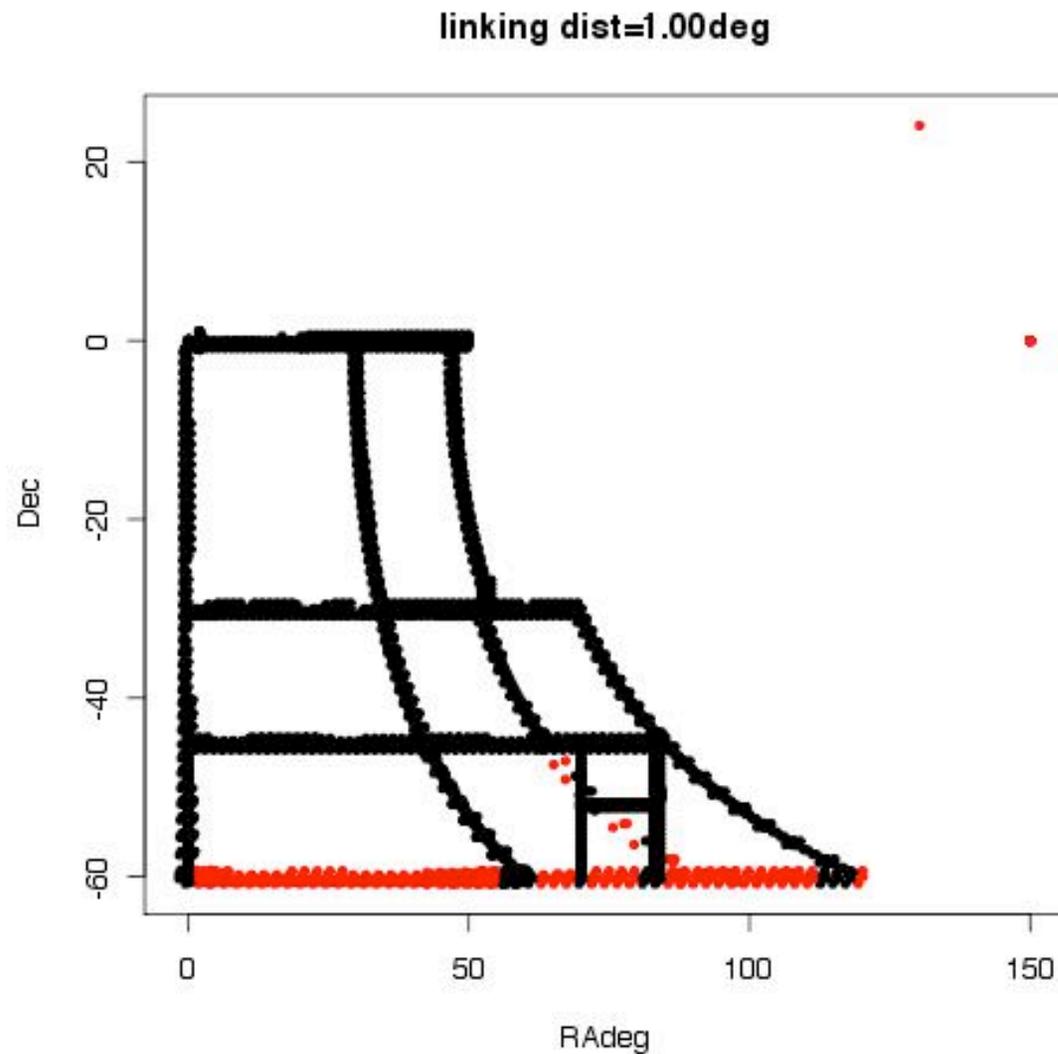


- **Stripe 82 (Calibrated/Reference)**
- **Connected by overlaps to Stripe 82 (Calibrateable)**
- **Isolated from Stripe 82 (Not calibrateable... at least not directly via overlaps from Stripe 82)**



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# PreCam ObsTac Linkage: Minimal Spanning Tree



Credit: Sahar Allam