## Impact of Aqua MODIS VIS/NIR Misregistration on Cloud Properties (MYD06)

## Two approaches:

- 1. <u>Improve VIS/NIR</u> focal plane registration by adjusting 250m pixel position (Bennartz, Moeller, Holz, Dutcher)
  - Empirically-derived weights for correcting focal-plane mismatch from 250m resolution channels (cross-correlation minimization of the aggregated VIS vs. NIR channels for selected scenes using Levenberg-Marquardt minimization).
  - Apply weights to 250m data and replaces data in the 1 km file.
  - Process one day of global 1° aggregated MYD06 results at Wisconsin PEATE.
- 2. <u>Understand sensitivity</u> by de-registering Terra MODIS 250m pixels (Platnick, Hubanks, Kuyper, Xiong)
  - "Move" 250m pixel location by 1 (along-track) and 2 (cross-track) positions.
  - Aggregate to 1km per usual.
  - Process one month of MOD06 Level-3 data (April 2005).





