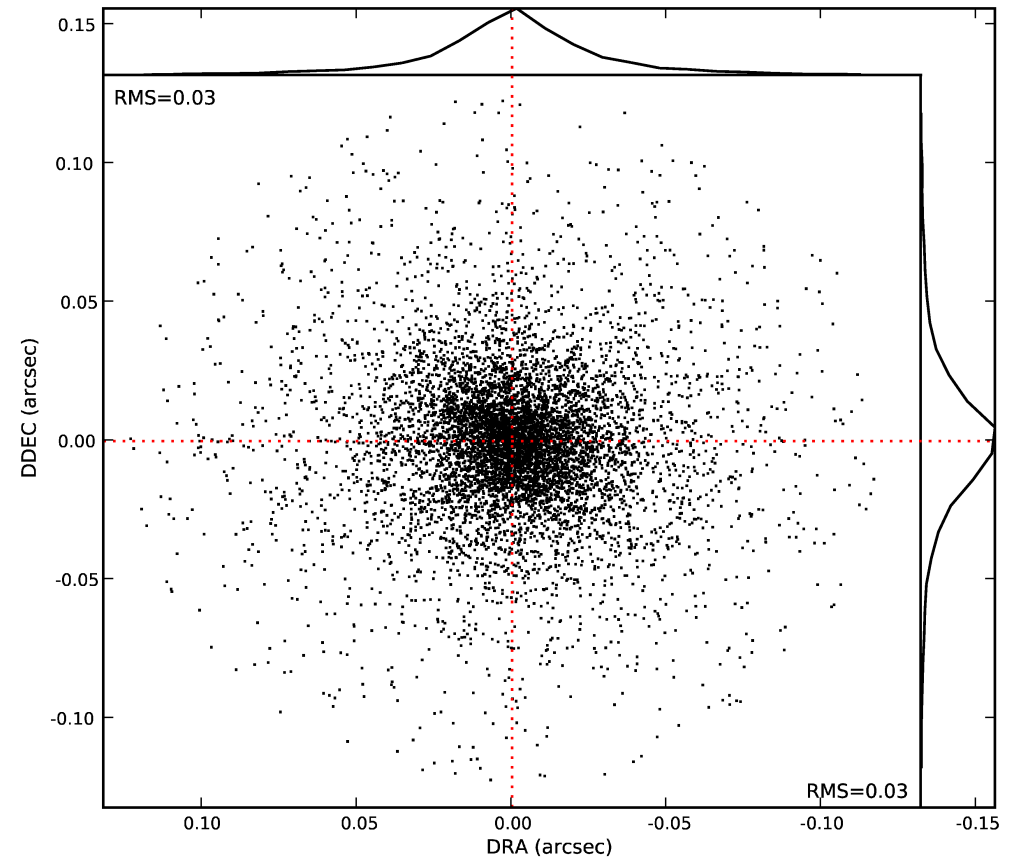
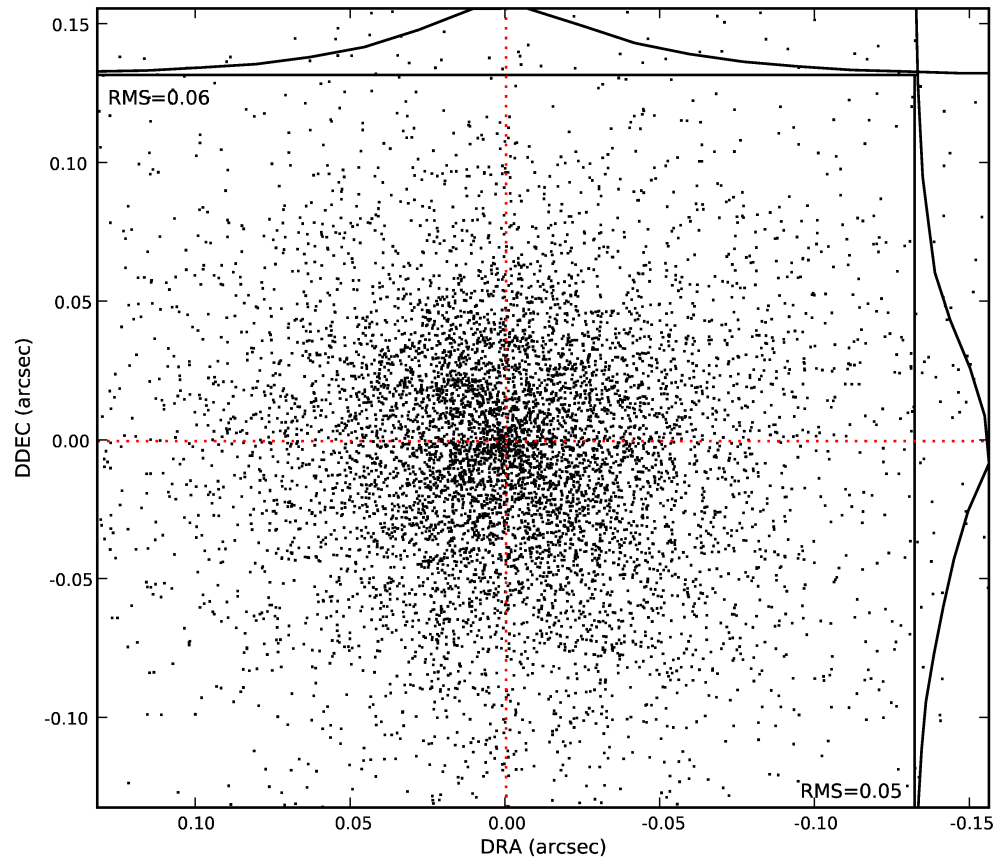


# Astrometry in AWE

## Astro-WISE Global Astrometry at Work

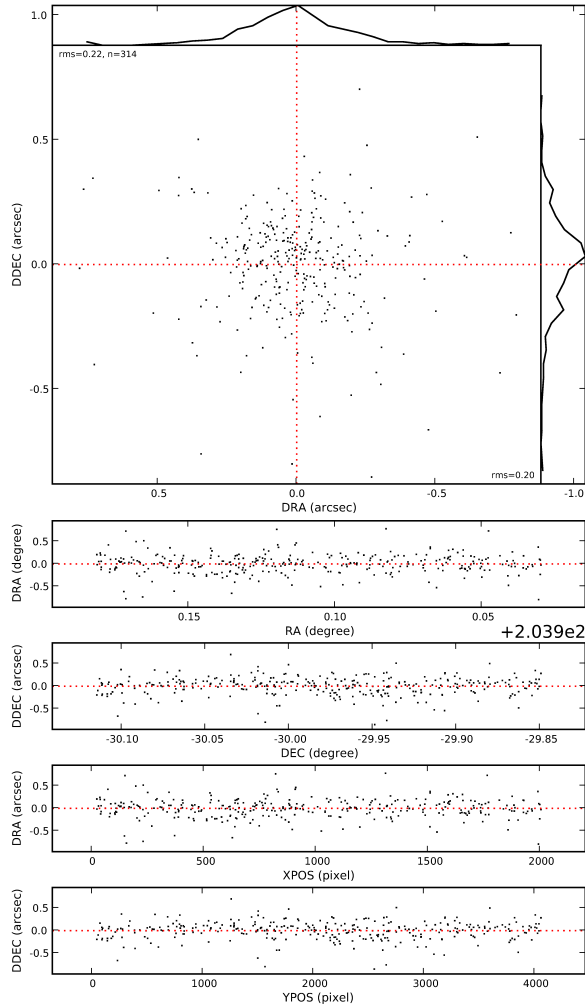


# Local Astrometry

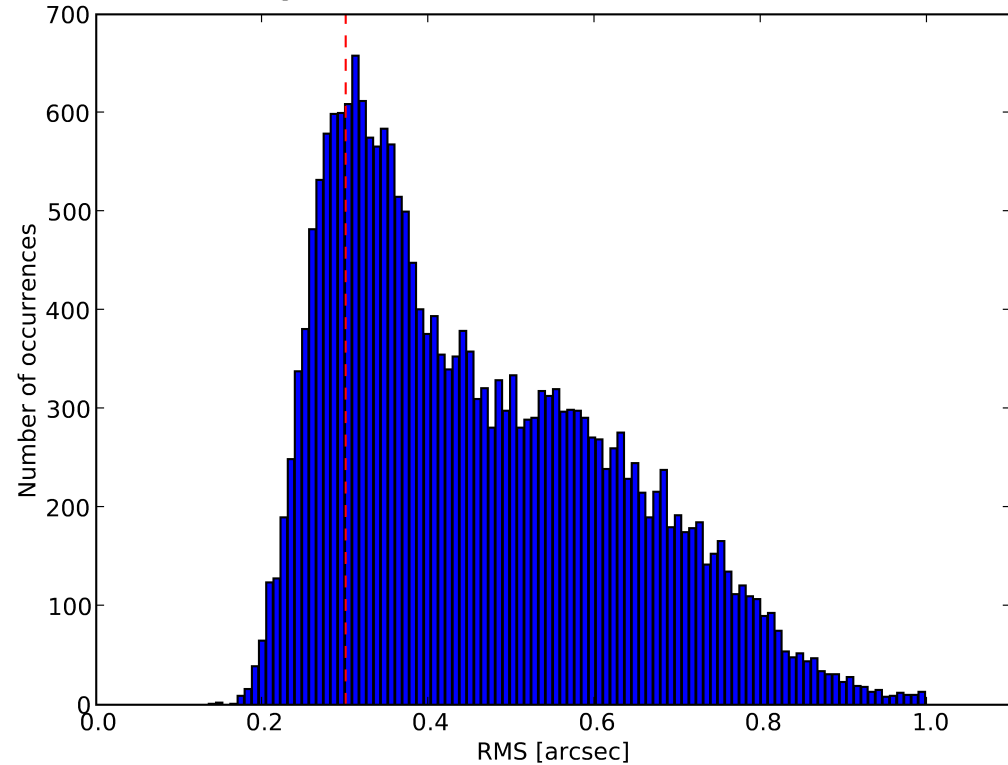
DATE\_OBS = 2002-06-15 02:46:22      <DRA> = 0.00290 +- 0.21901  
<RA> = 204.01109                      <DDEC> = -0.00039 +- 0.20422  
<DEC> = -29.97980                      RMS = 0.29946  
N = 314                                      Max = 0.89420

CHIP: ccd54  
Residuals for

Sci-PHERAUDEAU-WFI-----#843-ccd54---Sci-53404.5266354.fits



Histogram of RMS for 23178 Astrometric Solutions

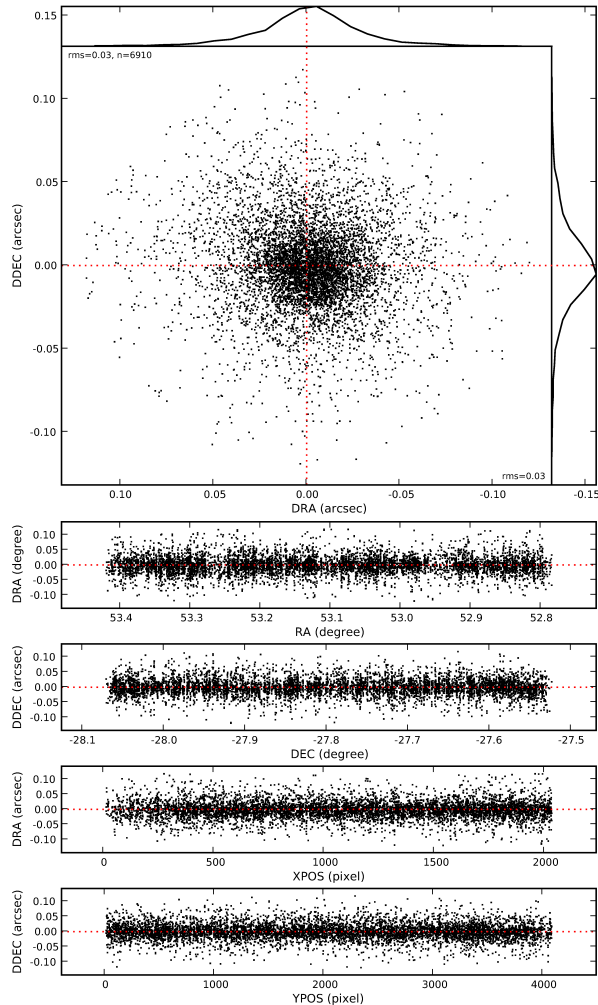


# Global Astrometry

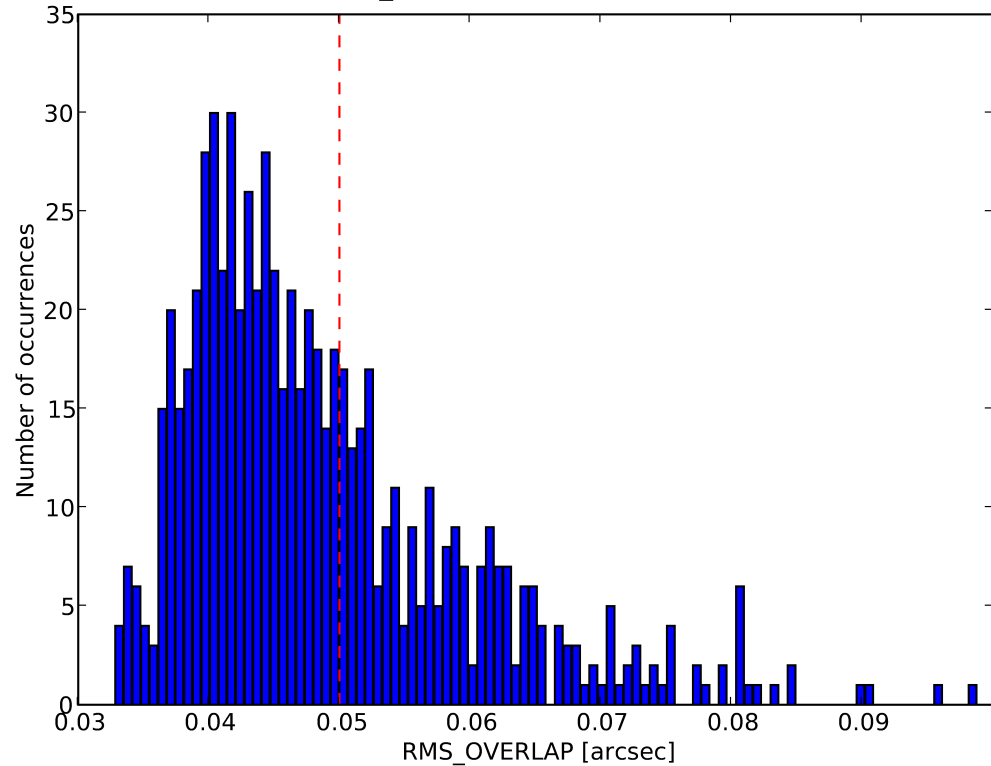
DATE\_OBS = N/A  
<RA> = 53.11194  
<DEC> = -27.79373  
N = 6910

<DRA> = -0.00093 ± 0.02919  
<DDEC> = -0.00005 ± 0.02728  
RMS = 0.03996  
Max = 0.11972

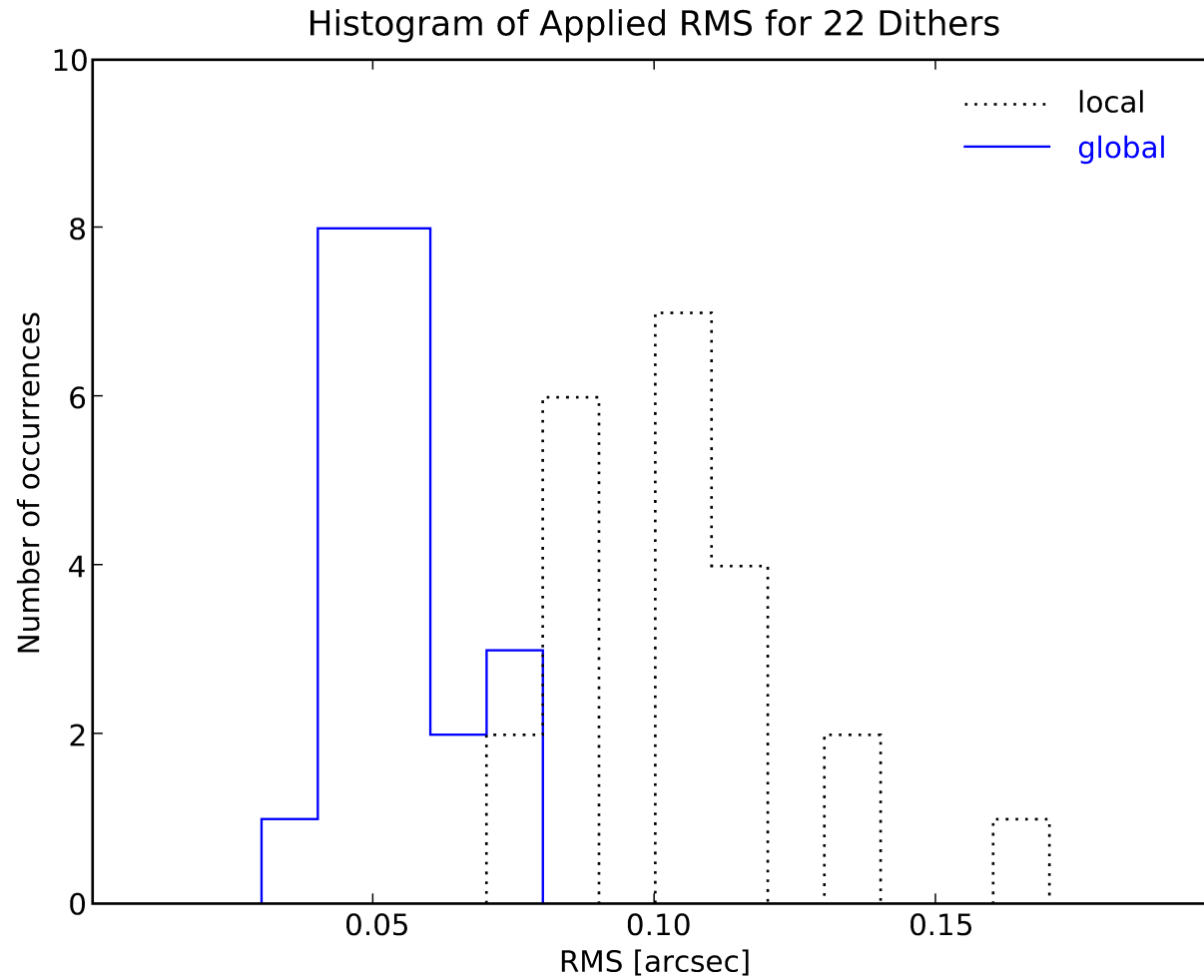
All Overlap Residuals for  
GAS-GOODS\_R-54527.8474477



Histogram of RMS\_OVERLAP for 710 Astrometric Solutions



# Improvement



# Data Ingestion in Astro-WISE

- Calibrate Instruments
  - HeaderTranslator
  - All data uniform in appearance
- Data Types
  - raw pixel data (sacred)
    - RawScienceFrame, RawBiasFrame, etc.
  - reduced pixel data (no history)
    - ReducedScienceFrame, RegriddedFrame, etc.
  - catalog data (instrument independent)

# Data Ingestion in Astro-WISE

- Instrument Projects
  - Ingest into instrument-specific projects ([WFI@2.2m](#), [WFC@INT](#), [MEGACAM@CFHT](#), etc.)
- Proprietary Data
  - Ingest with privileges = 1 (MyDB)
  - Can publish to higher privileges (more public)
- Public Data
  - Always ingest with privileges > 1
    - Allows all users access
- Calibration Data always public

# Context

- Projects
  - Group
  - Public
- Privileges
  - 1: owner (MyDB)
  - 2: group (project)
  - 3: Astro-WISE
  - 4: World
  - 5: VO

# Context

- Publishing
  - Privileges 1 -> 2 or 2 -> 3,4,5
- Methods
  - `print context.get_current_project()`
  - `context.get_current_privileges()`
  - `context.set_project()`
  - `context.set_privileges()`
  - `context.publish()`
  - Deleting and updating and informational