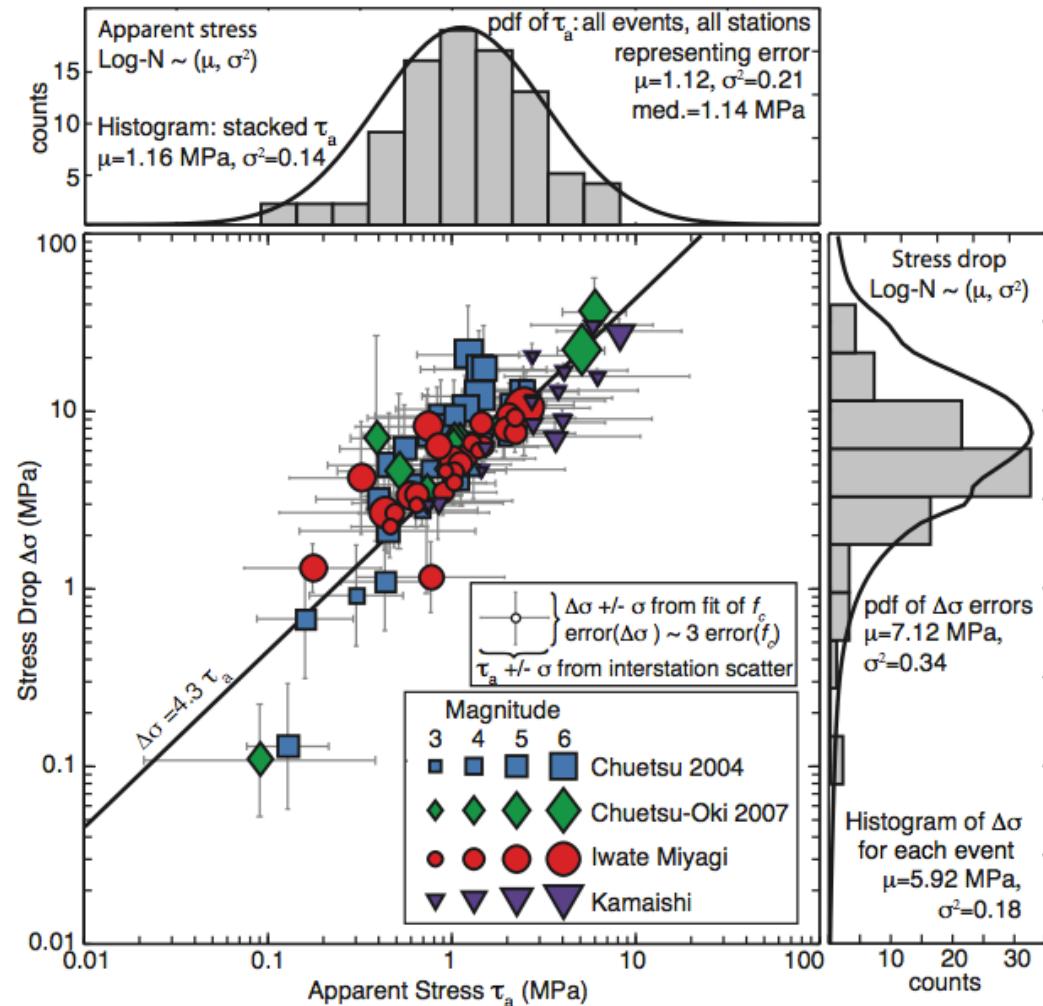
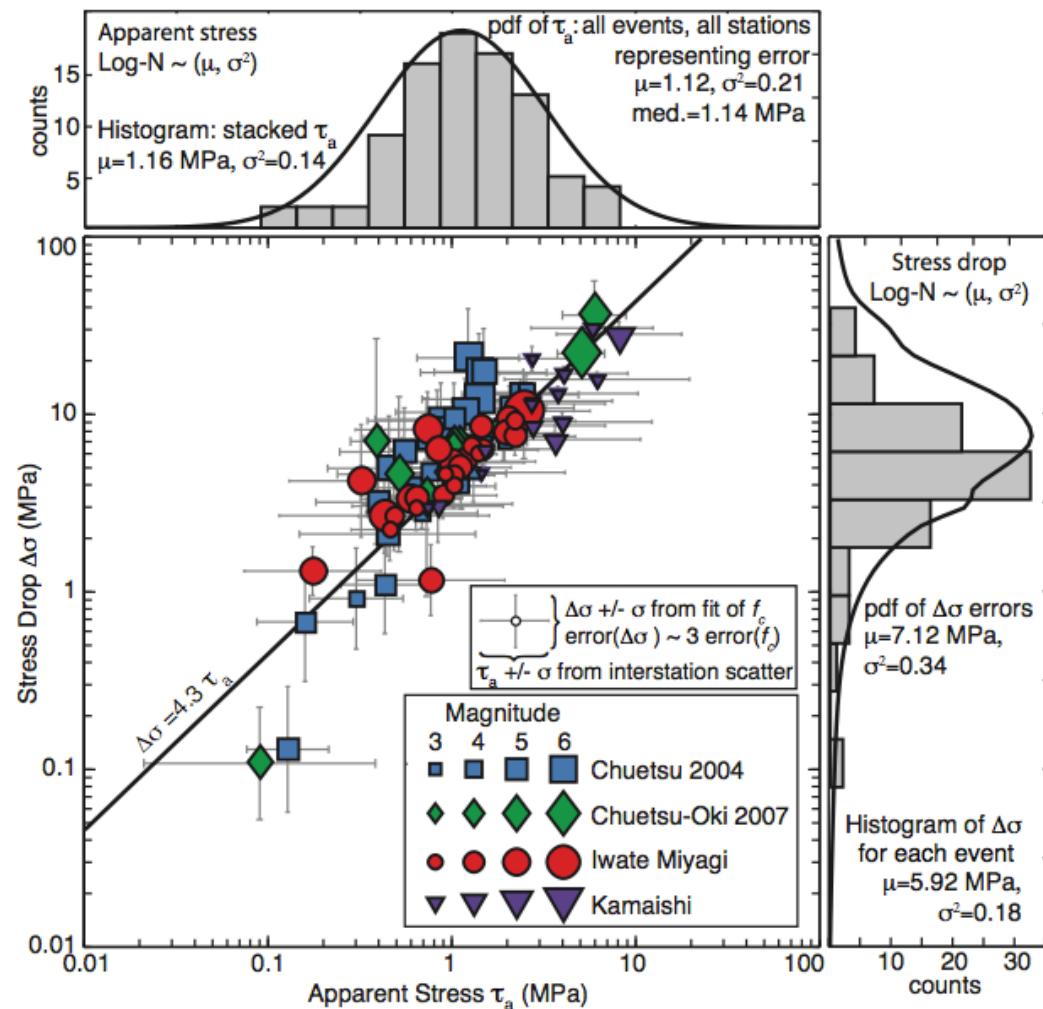


# Key issue for discussion #1: Source parameter variability



# Key issue for discussion #1: Source parameter variability

- Determine Uncertainties
- Understanding Variability
- Verify Outliers

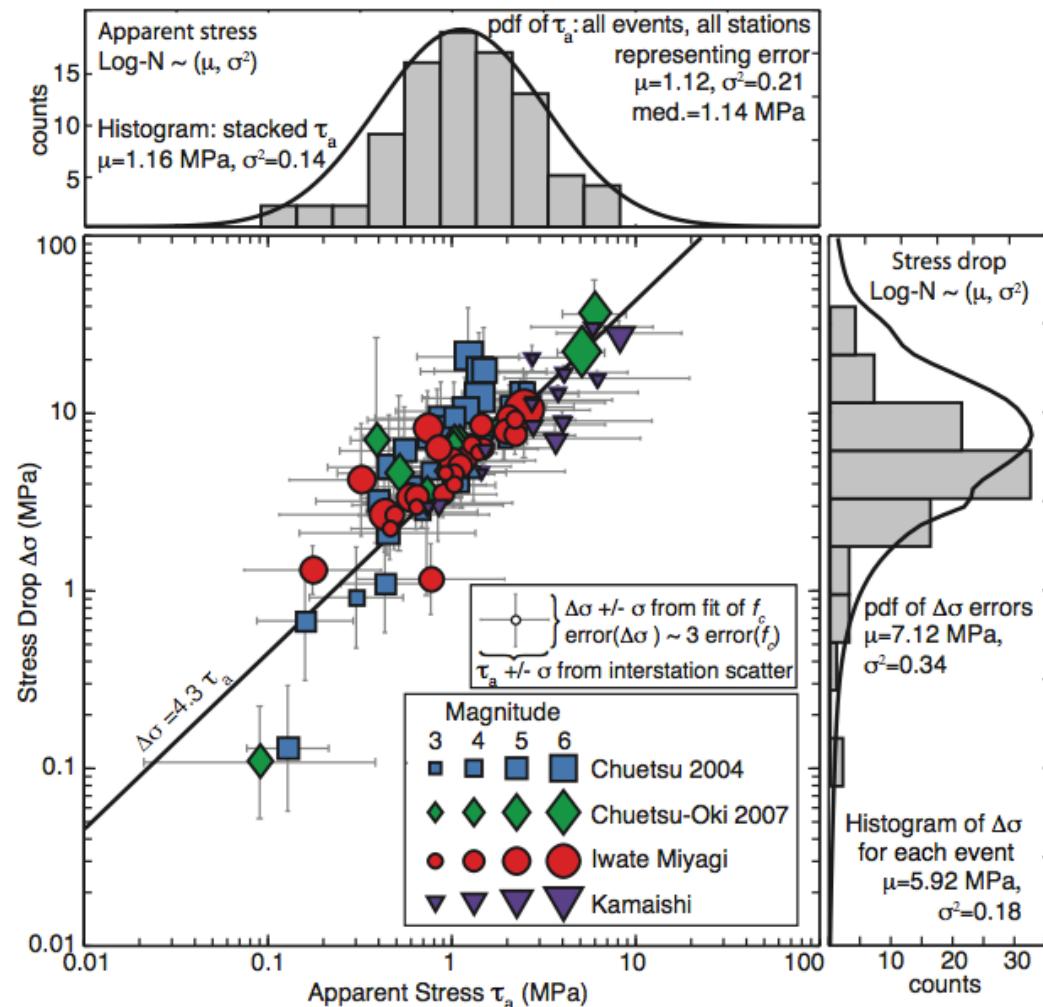


# Key issue for discussion #1: Source parameter variability

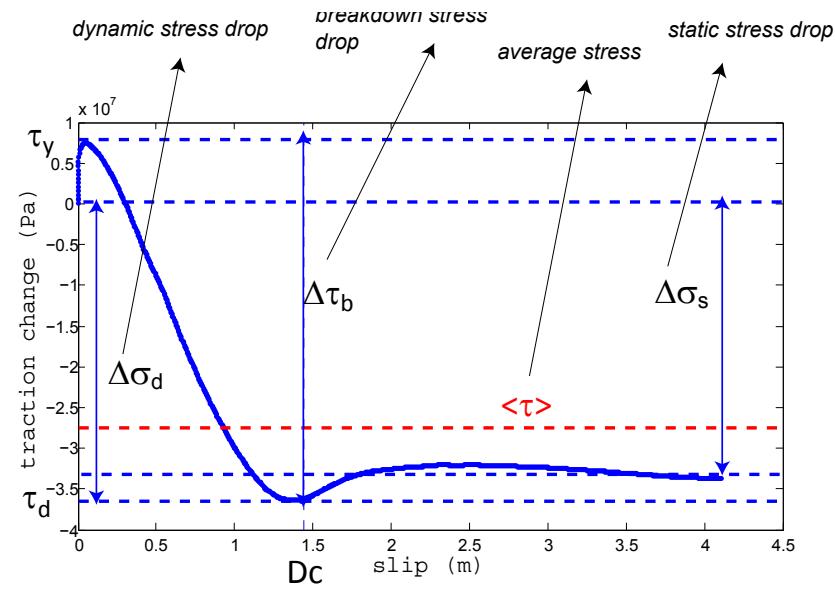
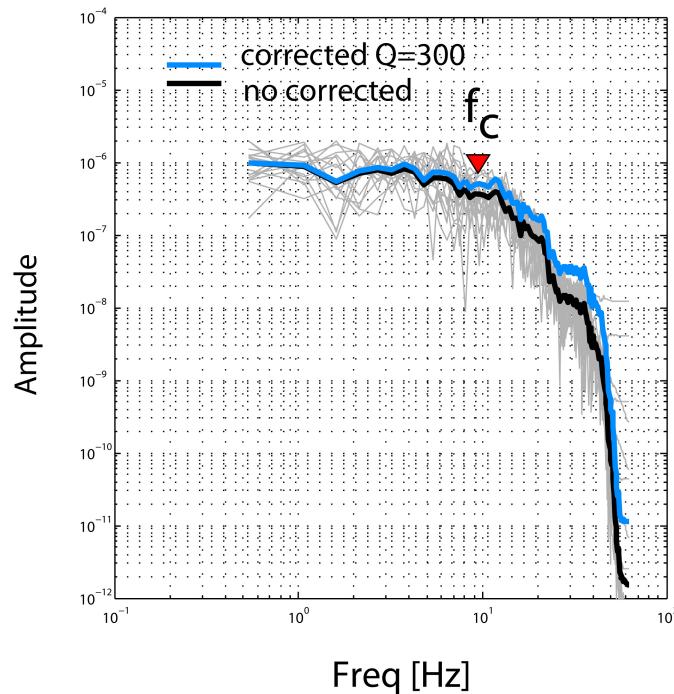
- Determine Uncertainties
- Understanding Variability
- Verify Outliers

**Practical Action #1: Identify  
5 sequences for testing  
methodologies**

**Different focal mechanisms,  
magnitude range, slip  
distributions, existing scaling  
relationships, large event  
with finite-fault model.**



# Key issues for discussion #2: Testing modeling assumptions



What do we measure?  
What should we measure?

# Key issues for discussion #2:

## Testing modeling assumptions

- Extended faults, check for
  - Rupture velocity  $V_r$
  - Source Time Function
  - Initial stress
- Check variability
- Use of stochastic models

# Statements for discussion

- Stress drop varies over 3 decades in amplitude for a large range of seismic moment
- Individual sequences might show trend of increasing stress drop with earthquake size
- Impact of modeling
  - Understanding underlying physics
  - Ground motion prediction and hazard assessment

# Statements for discussion

- Need for Source Inversion Validation
- Reconciling Lab, seismological, geological observations - dedicated/motivated experiments
- Scientific deep drilling.