

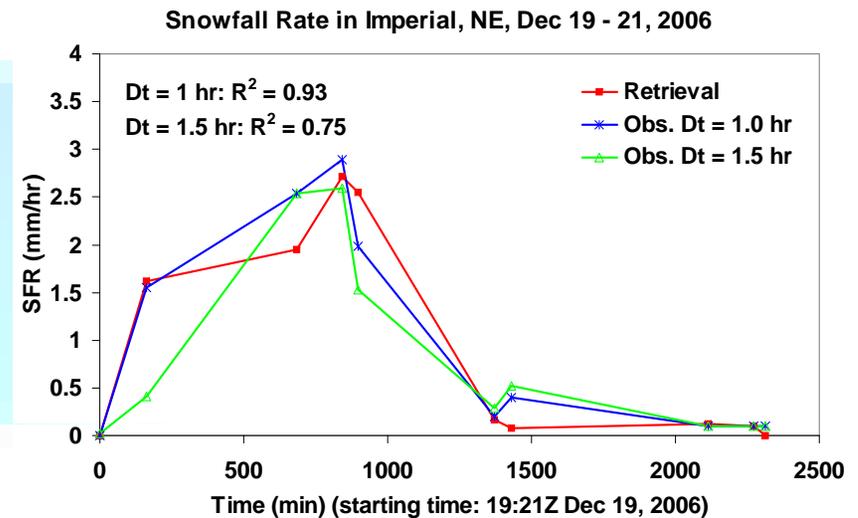
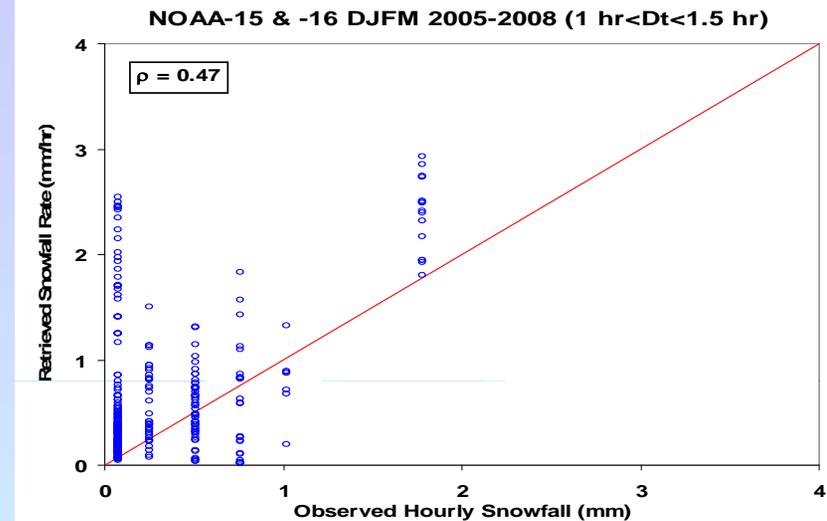
# Developmental Snowfall Rate Product

- Approach

- Retrieve IWP using a two-stream RTM under snowing condition
- Derive cloud top height from vapor and temperature profiles
- Compute ice water content
- Assume constant fall velocity
- Derive snowfall rate (water equivalent rate)

- Validation

- Use NCDC local climatological hourly snowfall observations
- Highest correlation is between retrieved snowfall rate and hourly snowfall observations with 1-1.5 hr time lag



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