

WECC Baseline Data Analysis

PNNL portion of the BPA, Montana Tech, and PNNL project

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Goals

▶ Investigate associations in

- PMU data
- SCADA data
- Mode Meter estimates

▶ Data

- June 2008 to May 2009

▶ Accomplishments

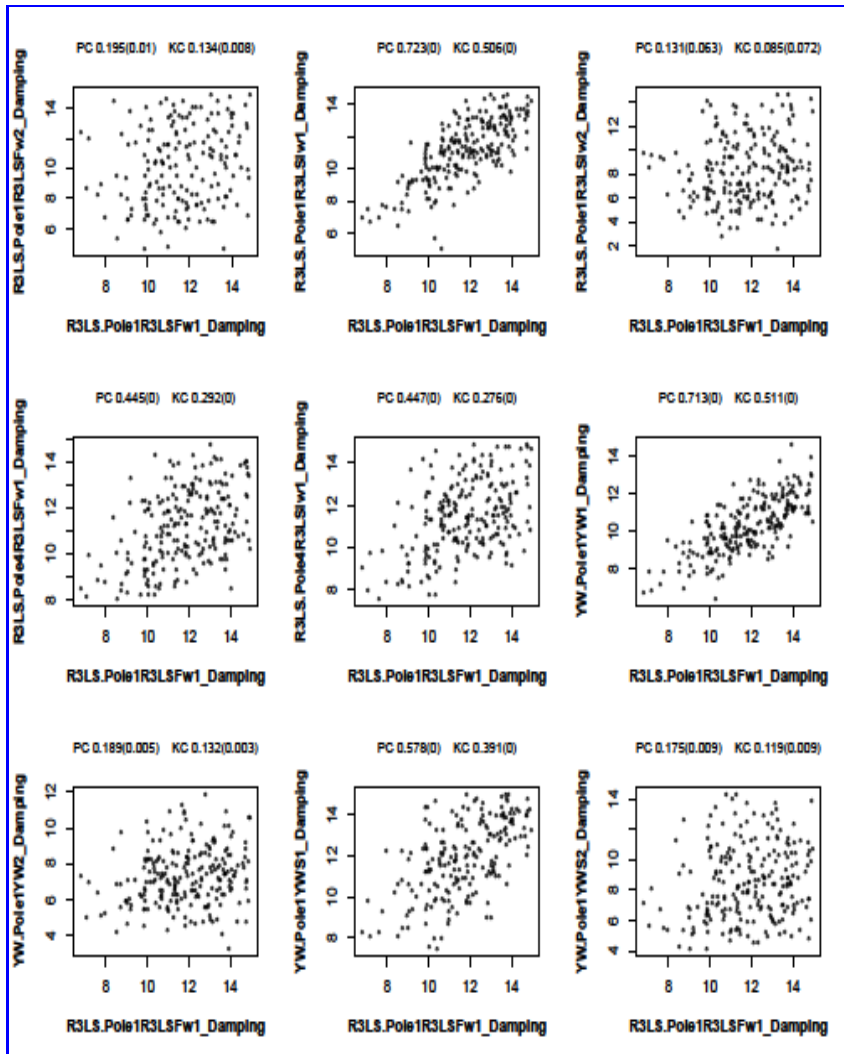
- Data ingestion
- Analysis code partially complete



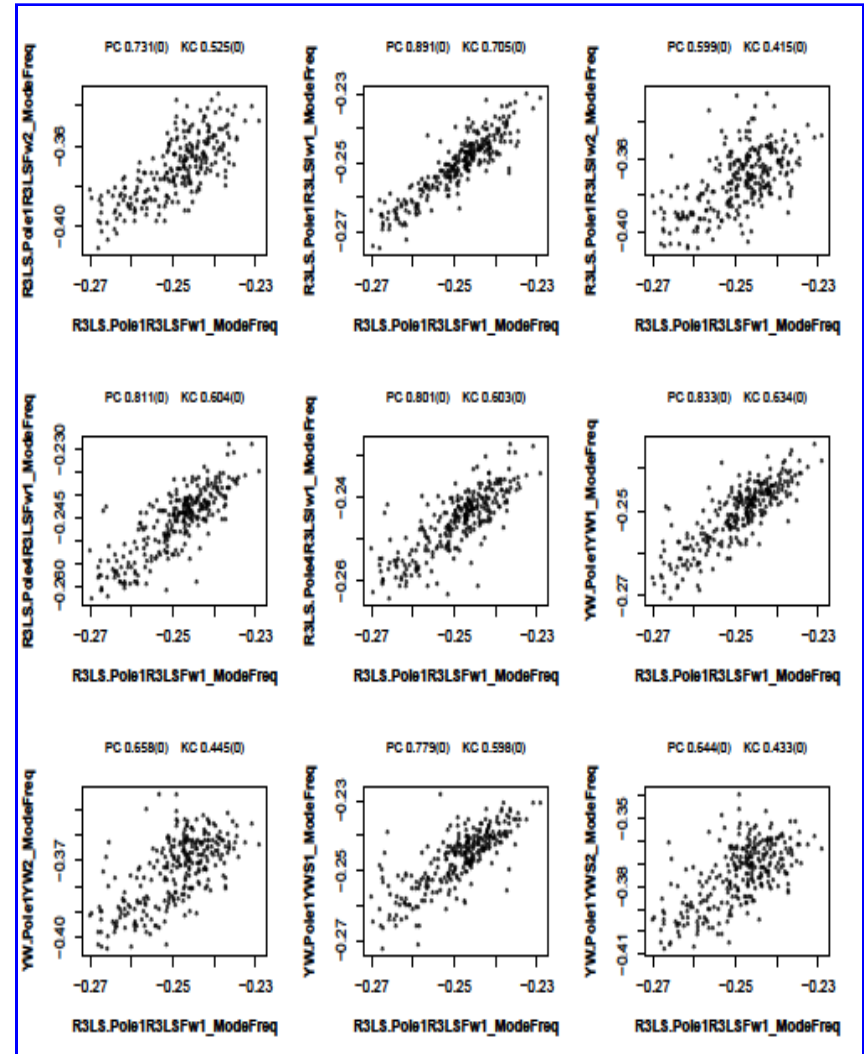
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Investigate Mode Meter Calculation Methods

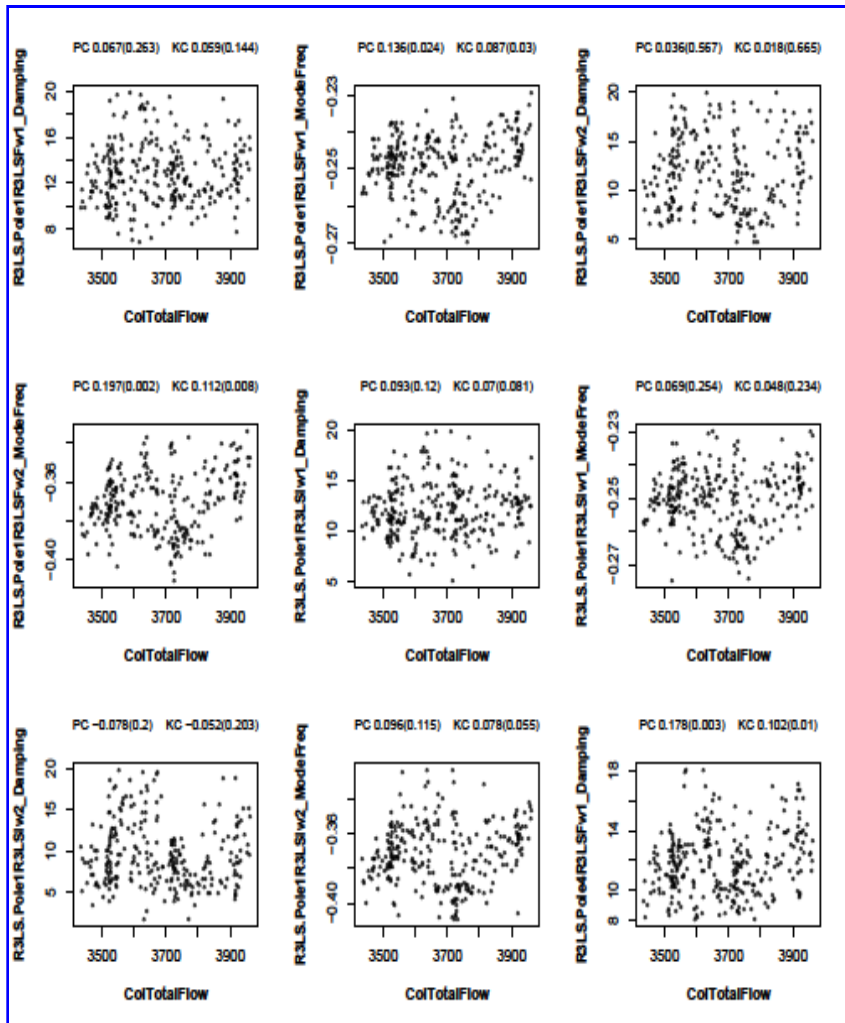


Damping

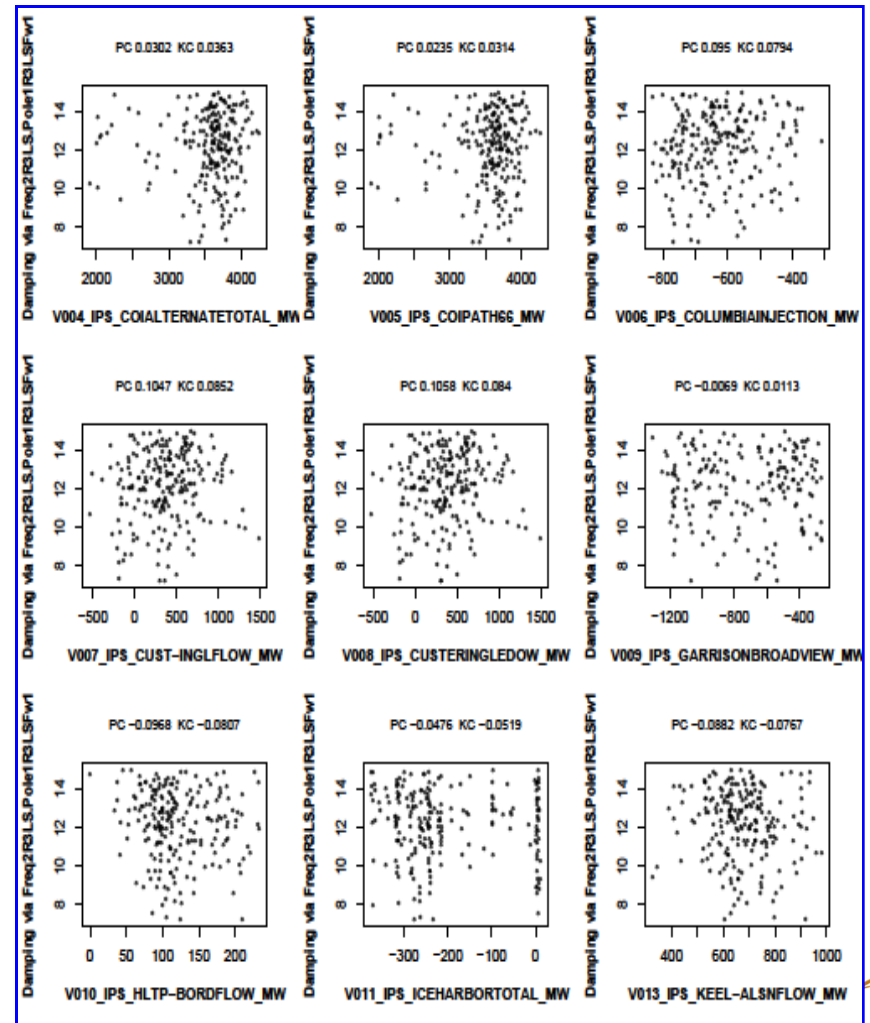


Mode Freq

Investigate Mode Meter Association with PMU and Scada data



PMU data



Scada data

Next Steps

▶ Continue analysis effort

- Compare various Mode Meter calculation results
- Compare PMU data to Scada data
- Associate Mode Meter results to
 - PMU data
 - Scada data

▶ Analysis methods

- Univariate
- Multivariate
- Domain driven models
- Data driven models
- Models relating Date/Time factors (Seasonal, DayOfWeek, TimeOfDay, Holidays)



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