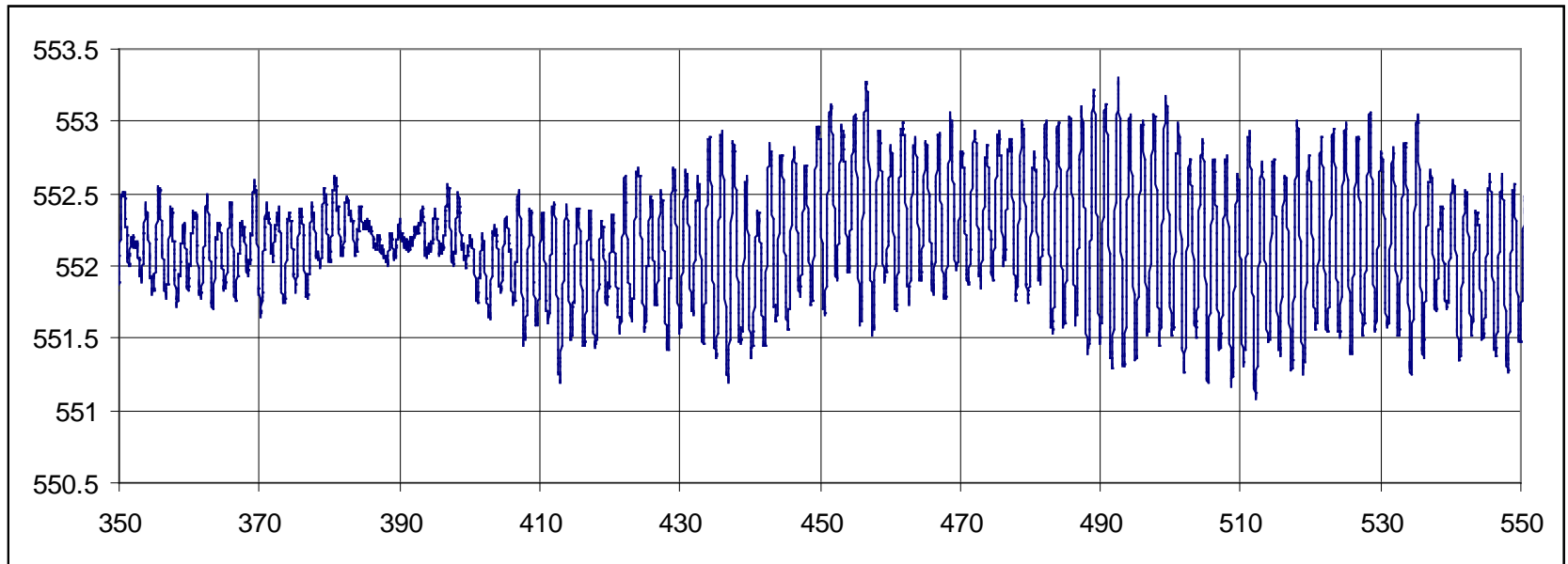


Why All Raw Synchro-Phasor Data Must be Archived

Dmitry Kosterev(BPA)

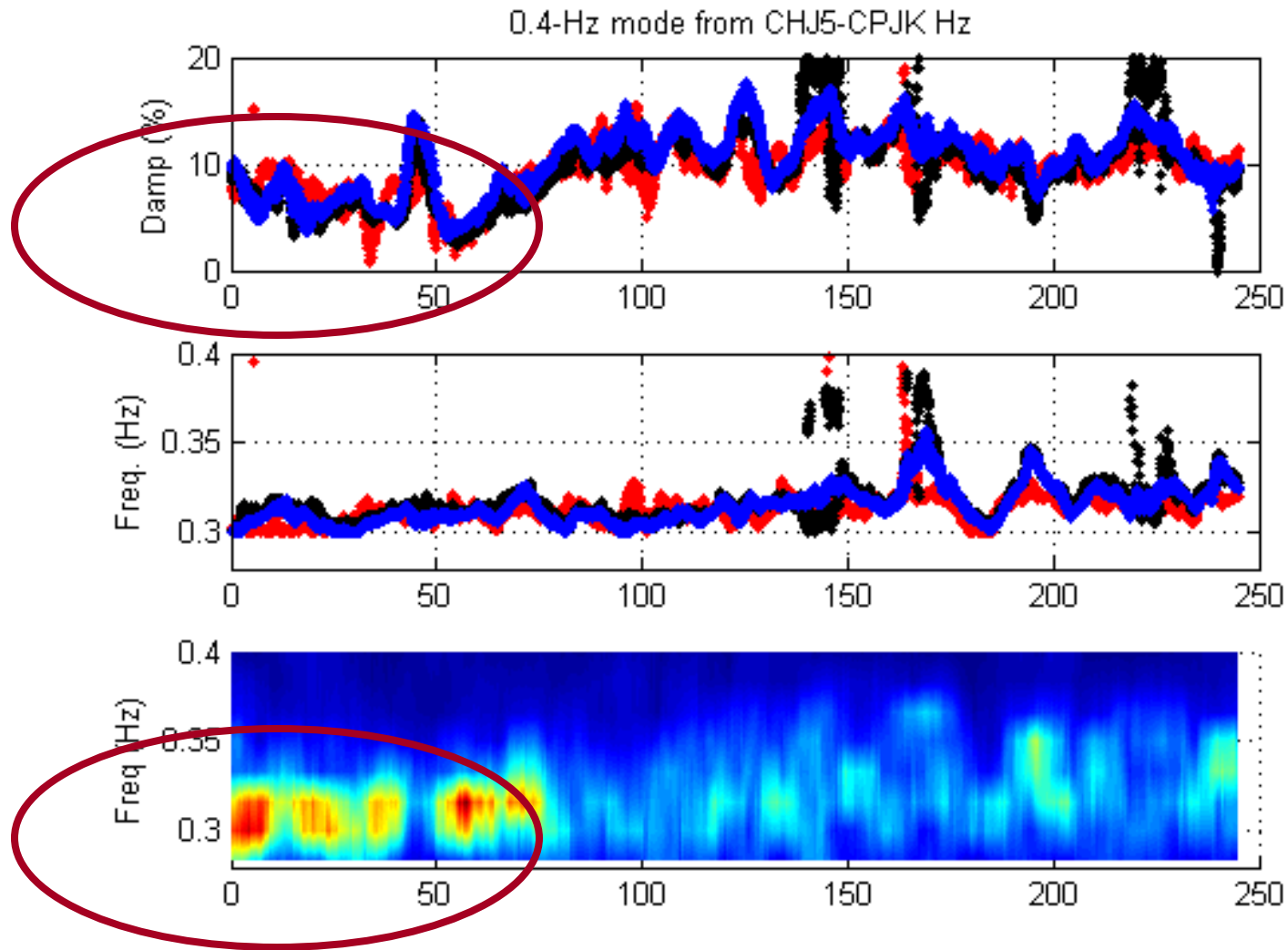
August 4, 2010

We want to see the “sizzle”

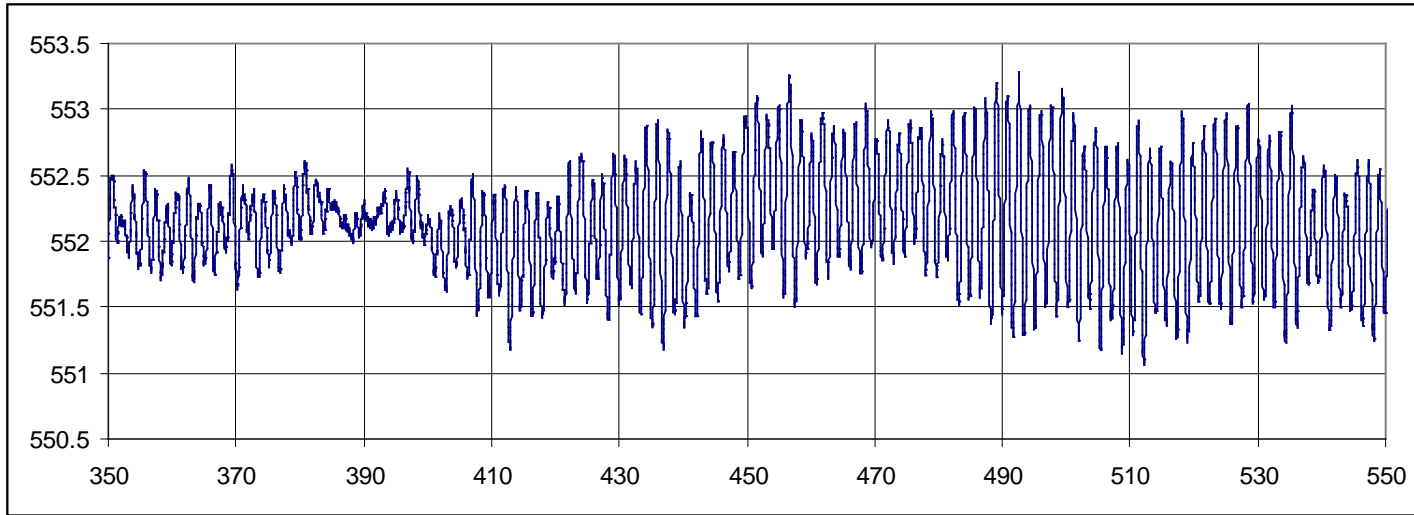


- The “sizzle” contains useful information on small signal system performance, used in:
 - Dynamic performance baselining
 - Mode meters
 - Voltage stability indicators
 - Model Validation

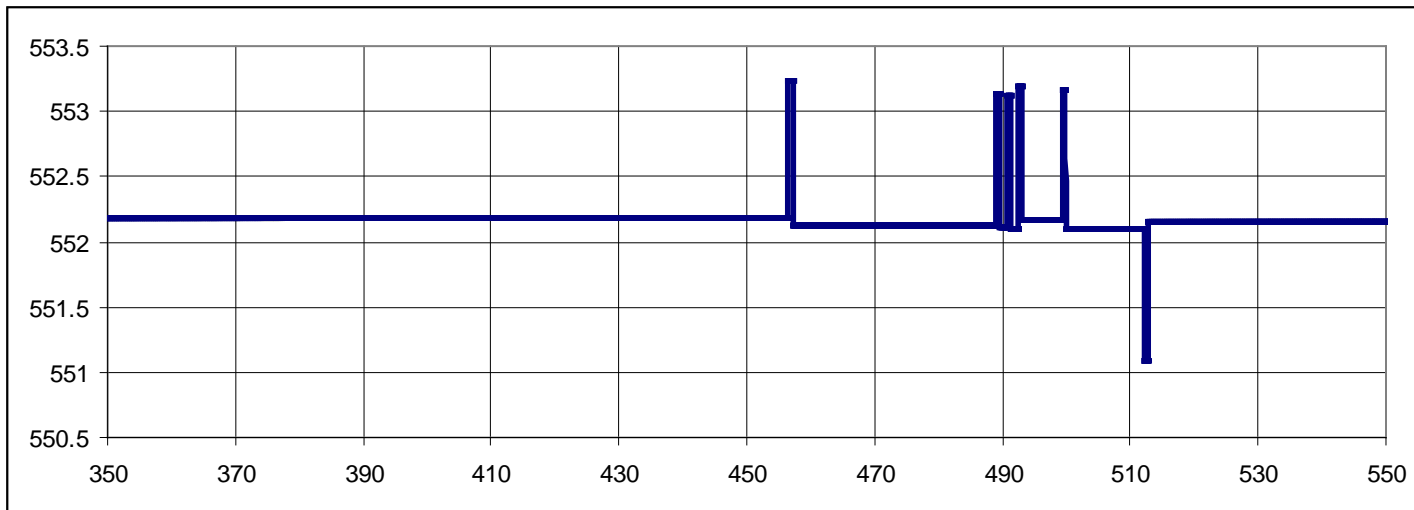
Mode Meter Estimates Damping and Mode Shapes from Small-Signal Oscillations



Data Compression May Remove the "sizzle"



Raw



Compressed

Observations

- Data compression may lead to loss of valuable information on small-signal dynamic performance
- Data storage is cheap and getting cheaper
- **We recommend continuous archiving of all raw synchro-phasor data**