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Uncertainty Budget Requirements of In Situ and Airborne Spectrometers for Satellite CAL/VAL

CALCON 2016, Logan (UT)

A. Hueni (UZH)

calcon www.calcon.sdl.usu.edu

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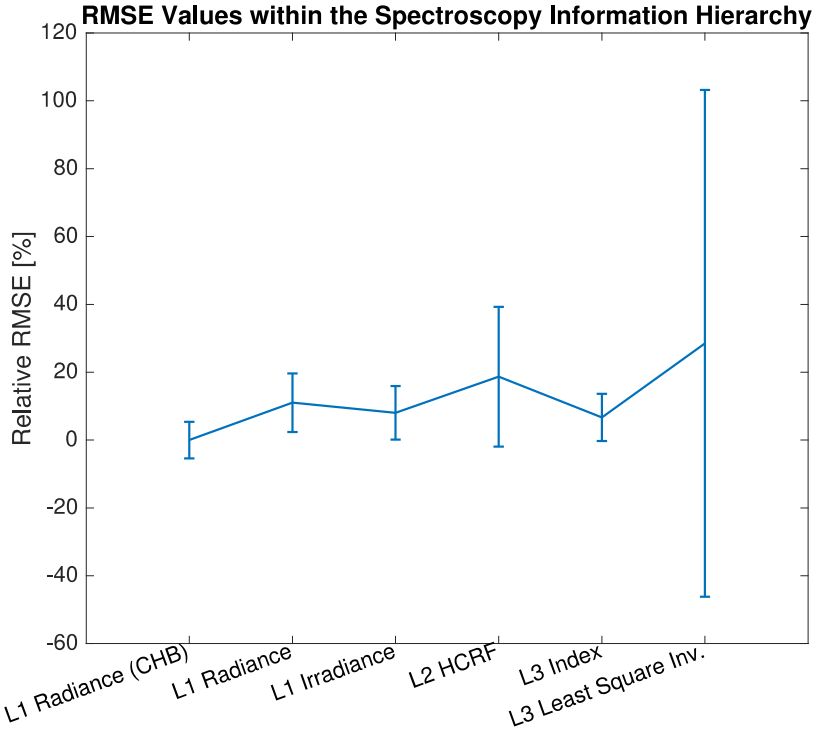
Uncertainty Estimates from in site and airborne X-VAL



Hueni, A., Damm, A., Kneubuehler, M., Schläpfer, D. and Schaepman, M. (2016). "Field and Airborne Spectroscopy Cross-Validation - Some Considerations." JSTARS **accepted**.

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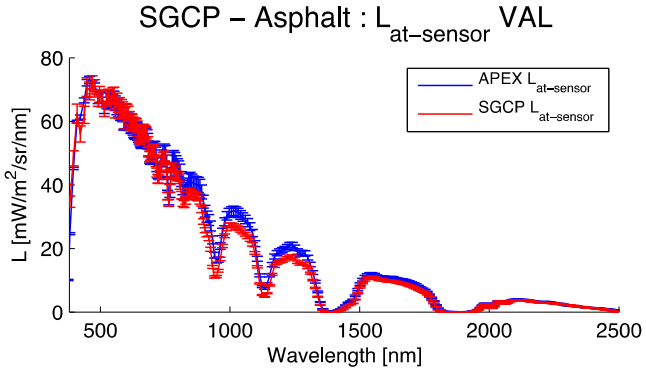
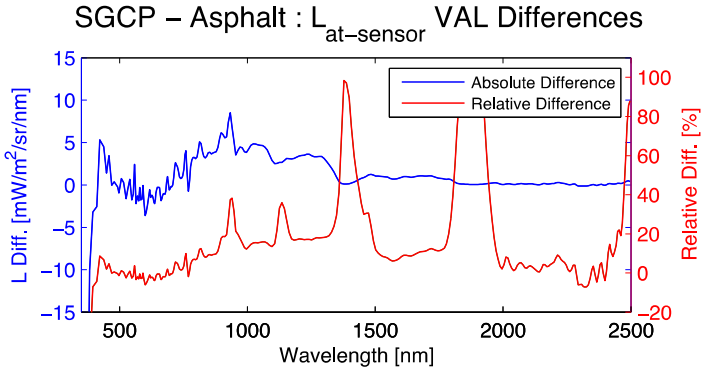
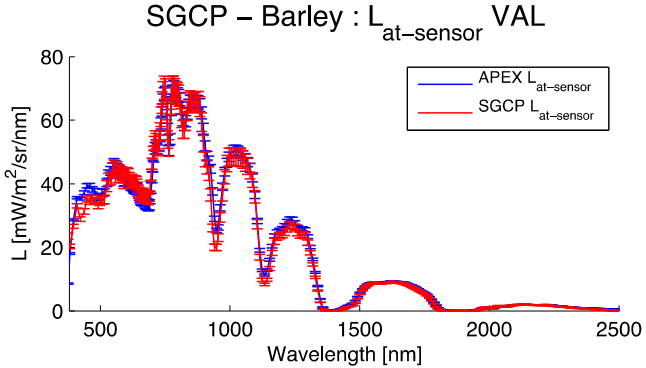
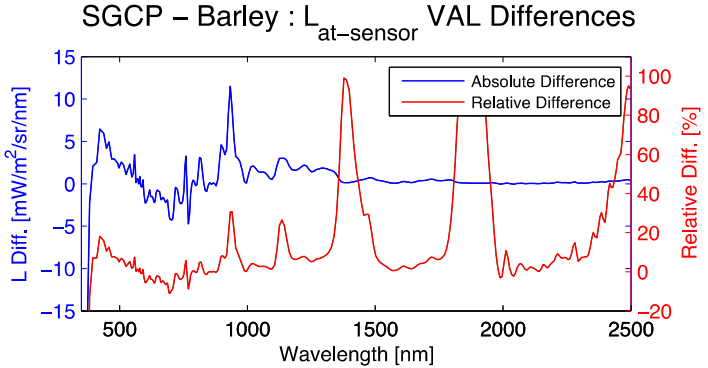
Radiance Level X-VAL









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Irradiance Estimation Issues

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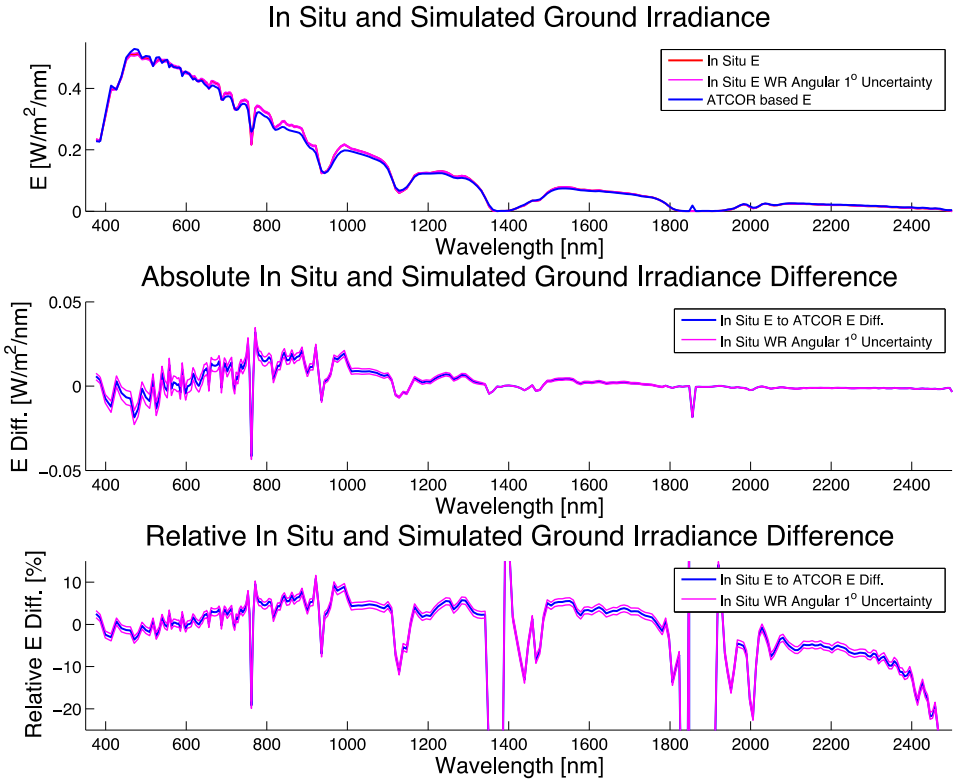

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Some Thoughts …

- Uncertainties will drop for CAL/VAL of broader band sensors
- The presented target suffer from size and homogeneity issues, and are in a non-desert environment -> Basing on Gobabeb, Railroad Valley, etc would likely be more accurate
- What uncertainty should we strive for to provide useful data for satellite CAL/VAL?