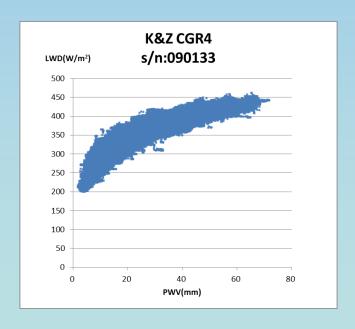
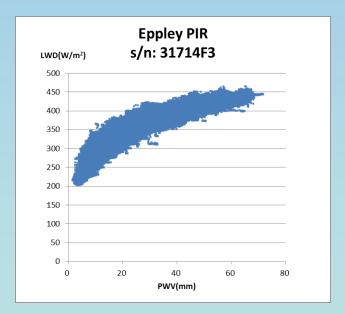
BSRN IR Working Group report

Members: J. Gröbner (chair), J. Michalsky (emeritus), K. Behrens, I. Reda, N. Ohkawara, T. Carlund, B. Gorman, B. Forgan, T. Kirk, J. Konings, J. Mes, L. Vuilleumier, J. Celso Thomaz, K. Hoogendijk



- 1) How do CG4 and Eppley PIR behave in wet climate with high IWV?
 - Nozomu : Comparison between CG4 & PIR for IWV at Tateno, Japan for IWV 10 mm to 70 mm







- Resolve discrepancies in IRIS-Pyrgeometer comparisons from DWD (Klaus) (Recalibration at PMOD/WRC)
 - Klaus: Instruments participated at IPgC-II. Analysis is still ongoing

- 3) Organisation of next Pyrgeometer comparison during IPC-XII (2015)
 - > IPgC-II, Report to be written.
 - Please contact Julian if you are interested in analysing some of the data.

- 4) Upwelling longwave Which Calibration to use : BB or WISG? First check how large an effect to expect.
 - Laurent: Check thermopile signals for upwelling radiation from Payerne
 - Reda, Jörgen : Check signals from NREL data



- 5) How-to eventually recalibrate BSRN Data
 - > Stephan: NF Project and presentation at BSRN. Report & Publication TBD
 - Laurent: Investigate the uncertainty of 1 minute data versus 1 second data
 - Reda: Document available from a previous ARM Meeting on this effect due to the T⁴ term.
- 6) Comparison of pyrgeometer calibrations from different sources
 - Tom Kirk compared different calibration coefficients from his pyrgeometer which participated at IPgC-II – analysis ongoing. Report to be submitted within a few weeks.
 - Reda: Comparison of NREL, NOAA, Eppley, PMOD calibrations: ARM science team meeting document to be forwarded to WG IR members
 - Julian, Tom: Comparison of PMOD Eppley PIR cals (BB and WISG) with Eppley cals from Archive

- 7) Stability of pyrgeometers over time: can a recent calibration be used backwards in time?
 - Stephan: Analysis of BSRN calibration records from PMOD archive
 - Reda: NREL reruns calibrations with stable coefficients and compare to Eppley cal.
 - Julian, Joe, Reda: Investigate stability of K dome term over time from past BB calibrations.



WG IR Activities - summary

- 1) How do CG4 and Eppley PIR behave in wet climate with high IWV?
- 2) Resolve discrepancies in IRIS-Pyrgeometer comparisons from DWD
- 3) Organisation of next Pyrgeometer comparison during IPC-XII (2015)
- 4) Upwelling longwave Which Calibration to use: BB or WISG?
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- 6) Comparison of pyrgeometer calibrations from different sources
- 7) Stability of pyrgeometers over time: can a recent calibration be used backwards in time?

