Update for Large-Scale Forcing Data (VARANAL) for GOAmazon 2014-2015

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Current Status

• Forcing with SIPAM precip and with TRMM precip (IOP1 and IOP2 2014)

• Forcing with updated SIPAM precipitation (2014-2015)

Available in the ARM Archive (http://www.archive.arm.gov/discovery/)

• Forcing incorporating observed surface fluxes and satellite data are also available for IOP1 and IOP2
Impact of SIPAM precipitation update to the Large-Scale Forcing

From Courtney Schumacher: SIPAM radar is calibrated against the TRMM PR and GPM DPR and the calibration for both satellite radars has been changed by \sim 1\ dB. SIPAM radar has been updated for the new calibration.

Updated radar precipitation increases upward motion in VARANAL
Incorporating more measurements

• Satellite data: available 2014-2015
• Surface stations: available for specific periods
• Radiosonde
  • Potential issues: inconsistency between ECMWF and radiosonde causes unrealistic gradient
  • Need to think about a way to incorporate sounding into the analysis

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More impacted by radiosonde

More impacted by ECMWF