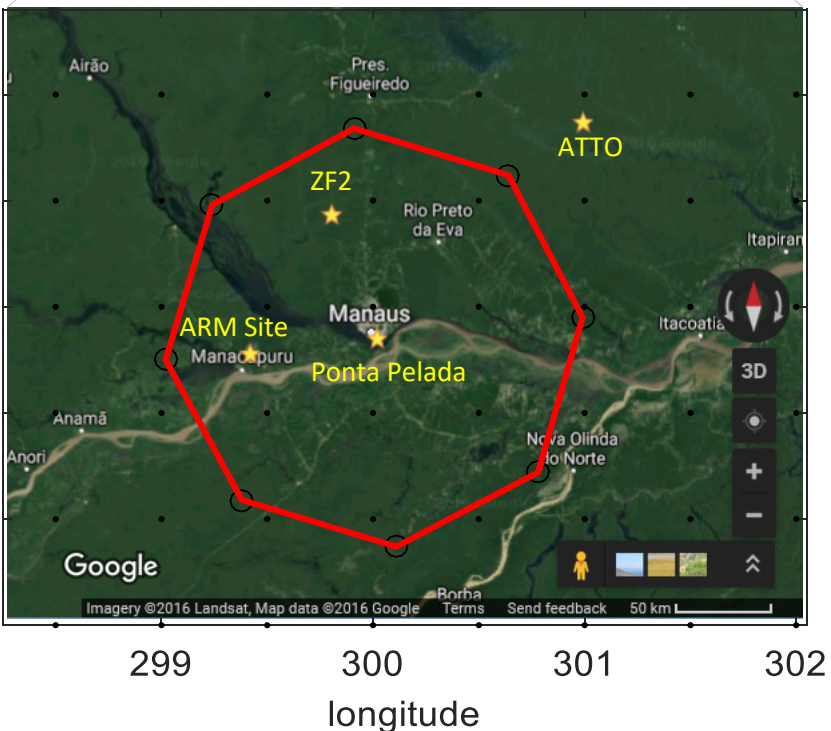
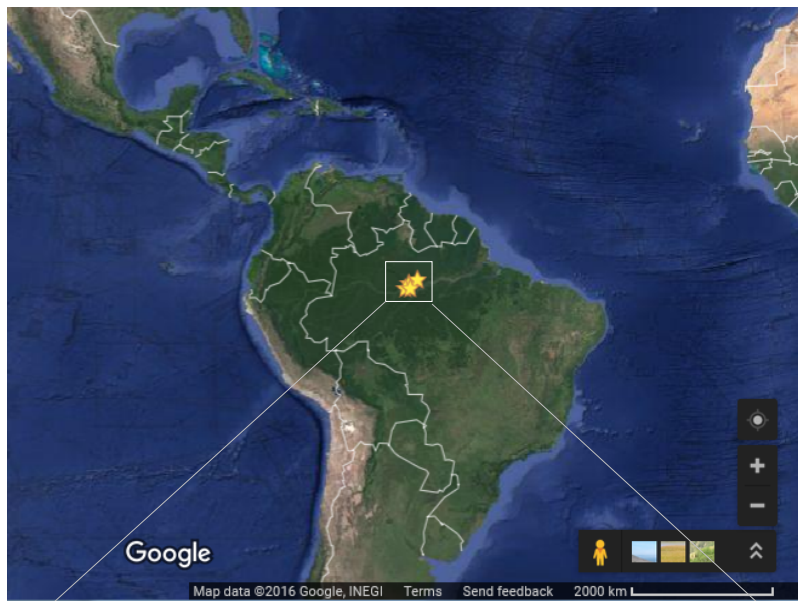


Update for Large-Scale Forcing Data (VARANAL) for GOAmazon 2014-2015



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Acknowledgement: Courtney Schumacher and Aaron Funk

Current Status

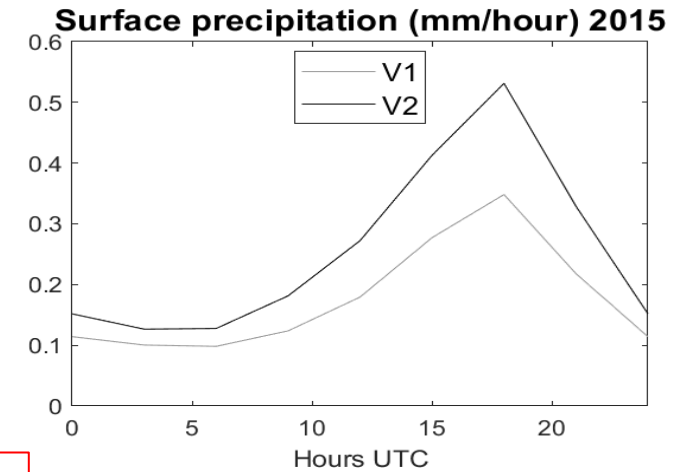
- Forcing with SIPAM precip and with TRMM precip (IOP1 and IOP2 2014)
- Forcing with updated SIPAM precipitation (2014-2015)

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

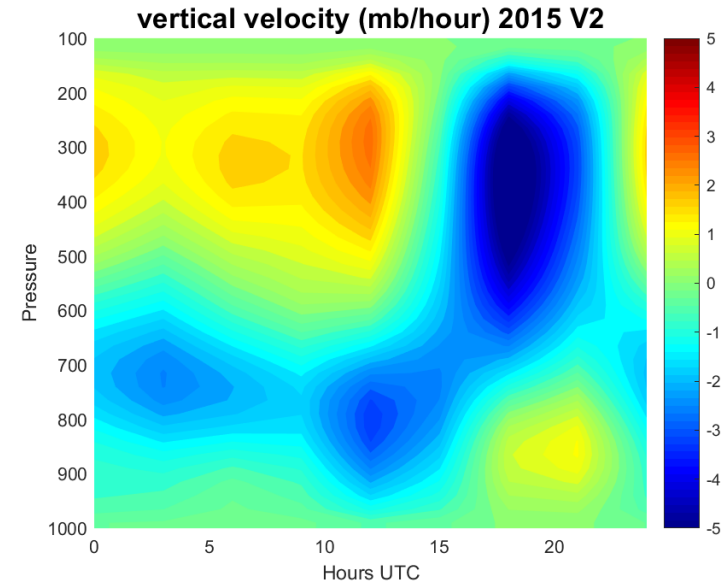
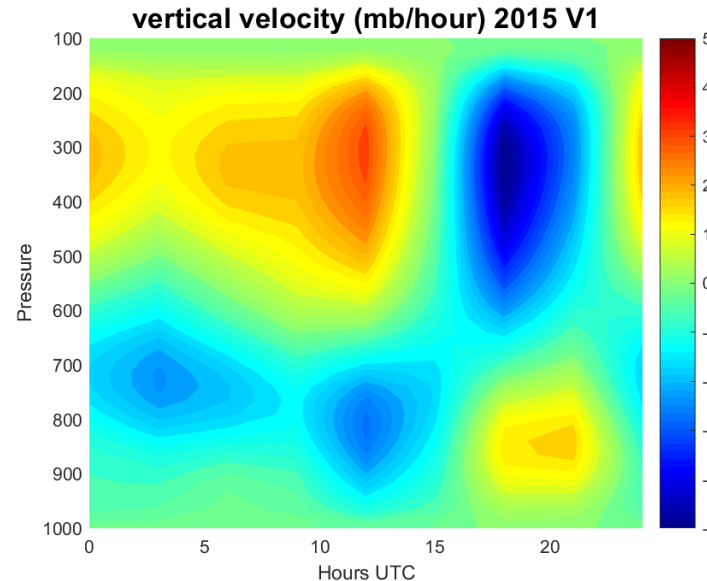
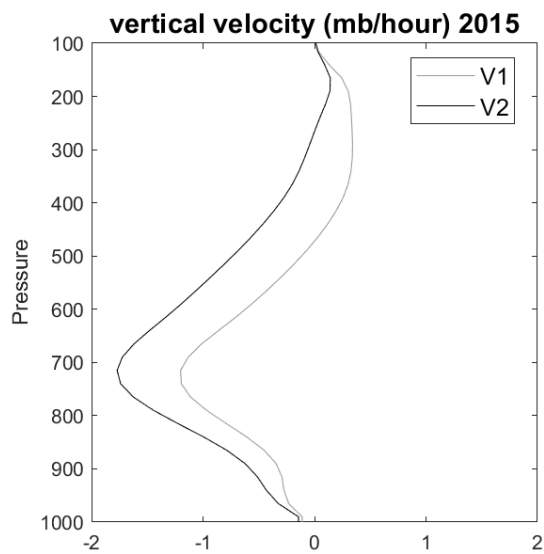
- Forcing incorporating observed surface fluxes and satellite data are also available for IOP1 and IOP2

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 ~ 1 dB. SIPAM radar has been updated for the new calibration.



Updated radar precipitation increases upward motion in VARANAL

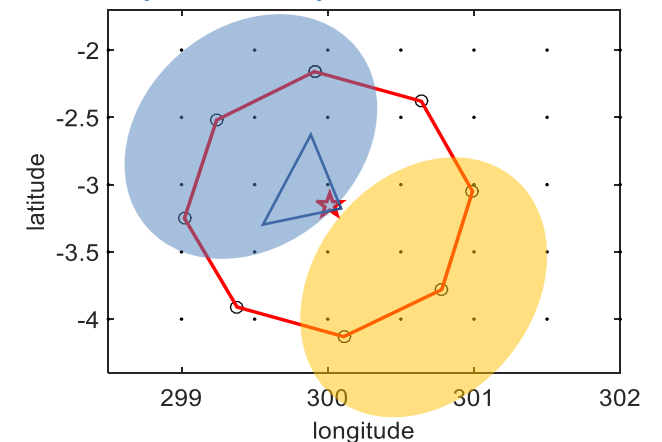


Incorporating more measurements

- 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