

Value-Added Product Highlights from the Cloud Lifecycle Working Group

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VAP name	Description	FY12 Highlights	Poster
VARANAL	SCM Forcing Data derived using constrained variational analysis approach (Zhang and Lin 1997, Zhang et al. 2001)	Updated MC3E forcing with improved soundings, developed forcing for SPARTICUS (00Z 1 January – 21Z 30 June 2010), and developed an initial version of forcing for AMIE-Gan (11/13/2011-12/13.2011)	Xie et al.
ACRED	ARM Cloud Retrieval Dataset – multi-year cloud microphysical property ensemble dataset	Updated ACRED by incorporating additional cloud microphysical algorithms	Zhao et al.
ARMBE	ARM Best Estimate – Best estimate of several selected cloud, radiation and atmospheric quantities	Completed transition from CMBE to ARMBE and improved the cloud identification algorithm for the ARMBE cloud fraction	McCoy et al.
QCECOR	Quality Controlled Eddy Correlation Flux	Released as an evaluation product for SGP and most AMF1 sites	McCoy et al.
QPE	Quantitative Precipitation Estimates from the C-SAPR	QPE is available as an evaluation product for SGP(MC3E+)	Collis et al.
CMAC	Corrected Moments in Antenna Coordinates	CMAC available as an evaluation product for CSAPR during MC3E	Collis et al.
KAZR-ARSCL	Same as ARSCL but for KAZR/MPL/CEIL	KAZR-ARSCL available as an evaluation product for GAN(AMIE) and SGP(MC3E).	
MICROBASE	Radar-based estimates of LWC, IWC, R _{eff}	New version of MICROBASE that uses KAZR-ARSCL as an input is available as an evaluation product for GAN(AMIE) and SGP(MC3E)	
Micro-ARSCL	Provides detailed summary of the characteristics of the radar Doppler spectra	GPU processing capabilities used to create very efficient processing code. All data to be available soon.	
SACR VAPS	Value-added products from the Scanning ARM cloud radar systems	Prototype velocity de-aliasing, attenuation correction and significant detection masks algorithms	Johnson et al.
INTERP SONDE	Radiosonde profiles interpolated to high time resolution for use as input to near real-time radar retrieval algorithms	INTERPSONDE available as an evaluation product GAN, SGP and TWP	
VERVELSR	Vertical Velocity in Stratiform Rain based on Giangrande et al. 2010	VERVELSR available as an evaluation product for select periods at NIM, SGP	

