The ARSCL Suite of VAPs

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What is ARSCL?

Active Remote Sensing of CLouds

The **ARSCL** Value-Added Product combines

- MMCR moments
- Lidar
- Ceilometer
- Surface measurements

to determine cloud locations and properties. Available at all fixed sites.

The ARSCL Suite:

ARSCL + Micro-ARSCL + WACR-ARSCL

Coming Soon!

Micro-ARSCL

Based on MMCR Doppler Spectra

Provides:

- Hydrometeor Phase discrimination
- Greatly improved insect detection
- Doppler moments and uncertainties
- Spectra slope, skewness, kurtosis
- Native modes' time resolution

WACR-ARSCL

Based on WACR dual-polarization moments and LDR

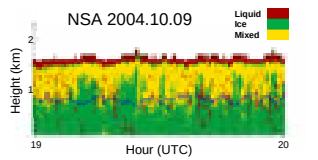
Provides:

- ARSCL capability at AMF sites
- Improved insect discrimination
- Also available at SGP

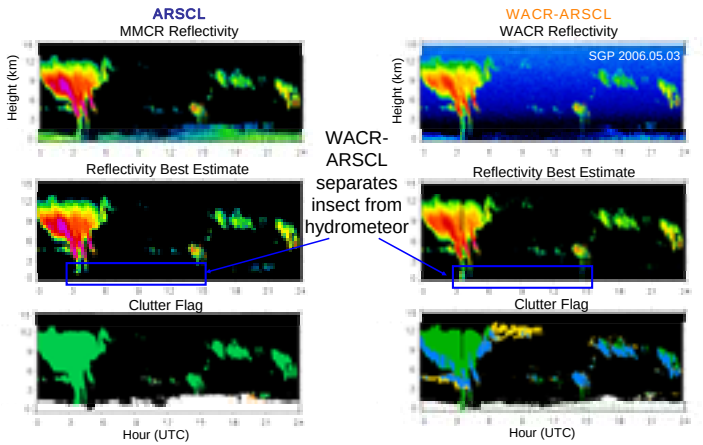
Summary

Two new **ARSCL-like** VAPs are coming soon: MMCR spectra-based **Micro-ARSCL** at all MMCR sites and 95 GHz radar-based **WACR-ARSCL** at AMF sites and SGP.

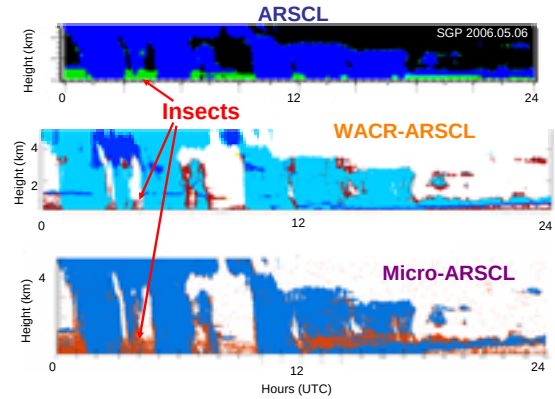
Micro-ARSCL Hydrometeor Phase Detection



ARSCL and WACR-ARSCL at SGP

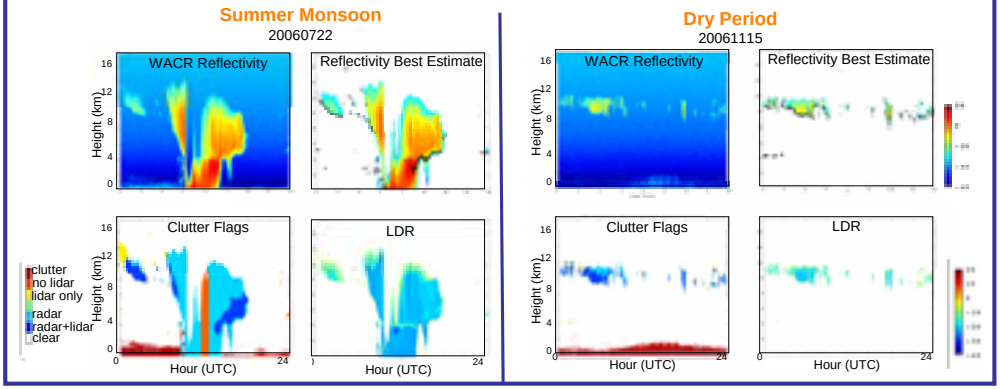


Improved Insect Detection



Niamey WACR-ARSCL

Beta Version Soon



Status of ARSCL Processing

Site	Dates Available
NSA	1998.03.25 - 2006.09.27
SGP	1996.11.08 - 2006.08.09
TWP-C1	1999.07.01 - 2004.12.31 2006.10.01 - 2007.01.09
TWP-C2	1998.11.01 - 2005.01.31 2006.09.01 - 2006.11.27
TWP-C3	2005.11.04 - 2006.08.24 2006.12.01 - 2006.12.31