



Pacific Northwest
NATIONAL LABORATORY

*Proudly Operated by **Battelle** Since 1965*

LASIC Radars – Status Update

BRADLEY ISOM

Pacific Northwest National Laboratory
ASR/ARM PI Meeting – March 2017





WACR

- ▶ Installed October 2016
- ▶ Operational October 13
- ▶ Modulator issue Feb. 27
- ▶ No data collected since
- ▶ Troubleshooting is ongoing



KAZR

- ▶ Installed July 2016
- ▶ Operational July 13
- ▶ Continues to run and collect data



Pacific Northwest
NATIONAL LABORATORY

Proudly Operated by **Battelle** *Since 1965*





SACR

- ▶ Installed July 2016
- ▶ Operational July 20
- ▶ UPS Issue
 - No data Sept. 12 - Nov. 21
- ▶ No WSACR Rx data since
- ▶ KaSACR continues to run and collect data
- ▶ Troubleshooting is ongoing





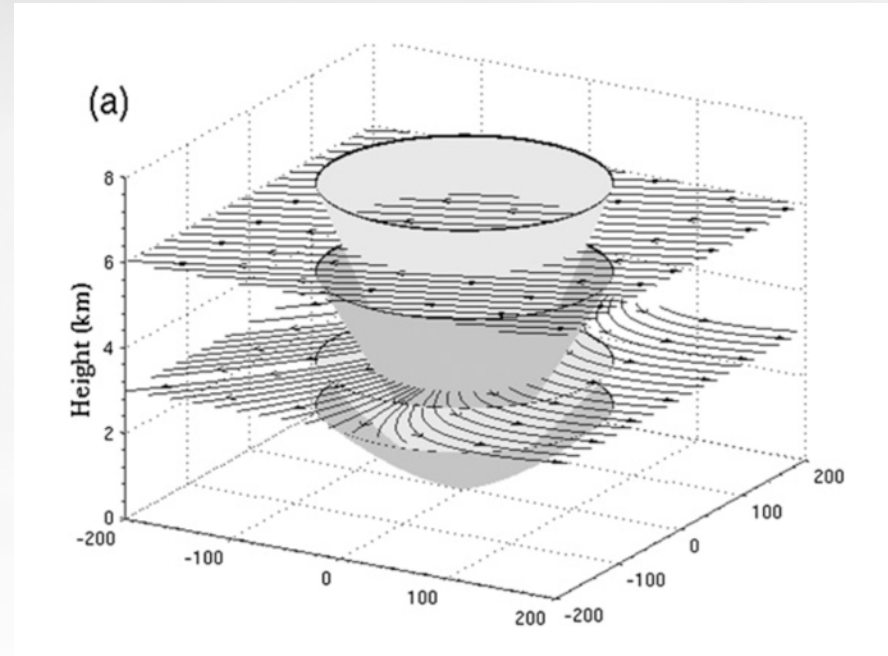
SACR – Scan Strategy

▶ Original Scan Strategy

■ Repeat 4x

● Sector Plan Position Indicator (PPI)

◆ Az: 90-→270, El: 0:3:42



Kollias, P., N. Bharadwaj, K. Widener, I. Jo, and K. Johnson, 2014:
Scanning ARM Cloud Radars. Part I: Operational Sampling Strategies. *J Atmos Ocean Tech*, **31**, 569-582.

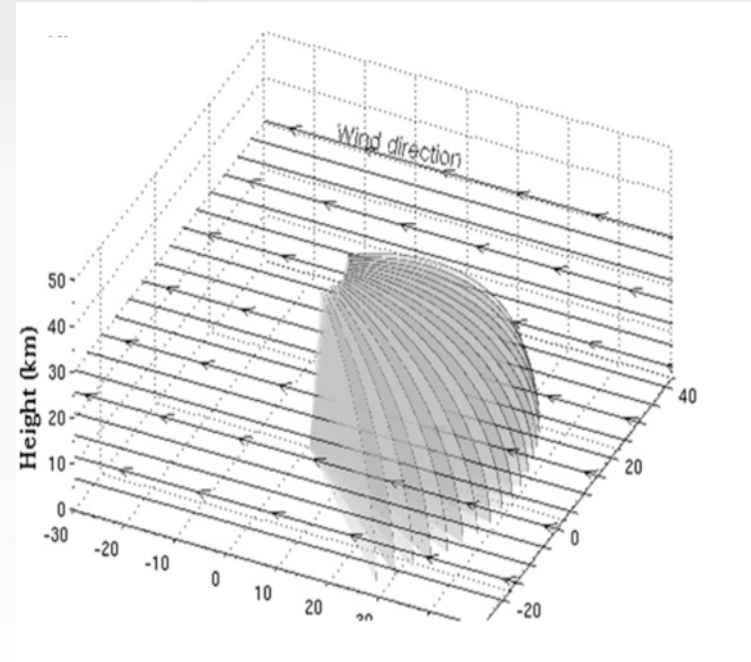


SACR – Scan Strategy

▶ Original Scan Strategy

■ Repeat 4x

- Sector Plan Position Indicator (PPI)
 - ◆ Az: 90-→270, El: 0:3:42
- Boundary Layer Range-Height Indicator (BLRHI)
 - ◆ Az: 90:2:180, El: 0-→45





SACR – Scan Strategy

▶ Original Scan Strategy

■ Repeat 4x

● Sector Plan Position Indicator (PPI)

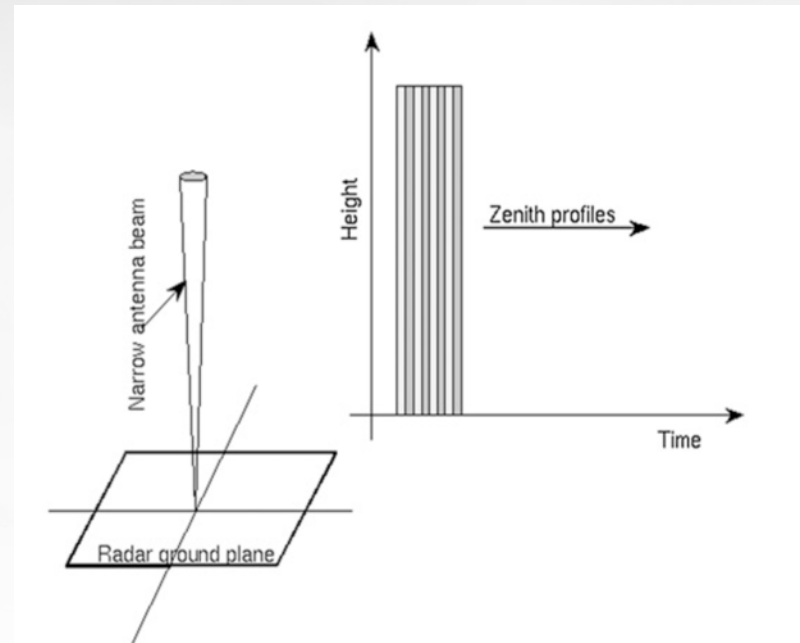
◆ Az: 90-→270, El: 0:3:42

● Boundary Layer Range Height Indicator (BLRHI)

◆ Az: 90:2:180, El: 0-→45

■ VPT (~4 minutes)

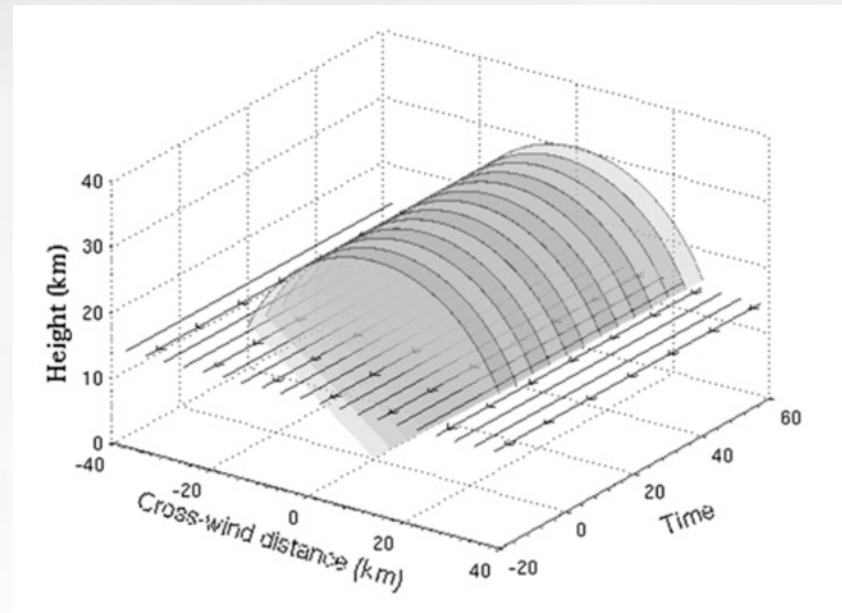
1 Hour





SACR – Scan Strategy

- ▶ Modified Scan Strategy
 - Implemented Feb. 16
 - Repeat 3x
 - Sector PPI
 - BLRHI
 - 40 Cross Wind RHI scans (CWRHI)
 - Az: 90, El: 0->180
 - VPT



1 Hour