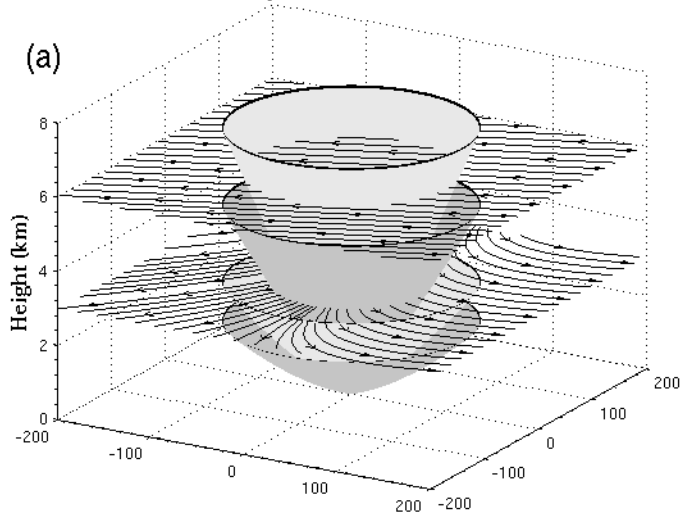


ARM Radars Scans Strategy

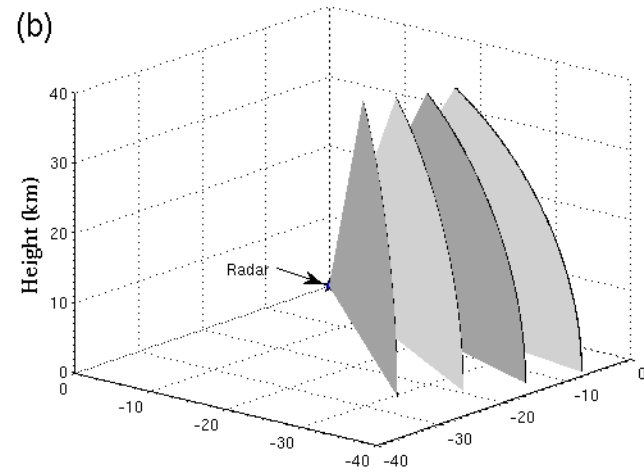


Scan Nomenclature

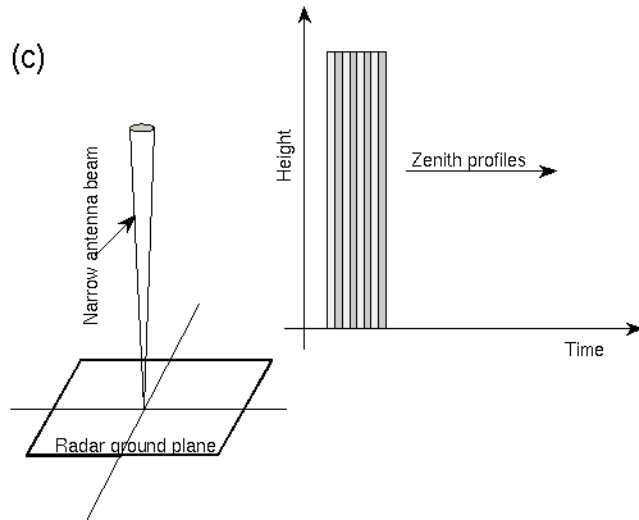
❑ PPI: Plan position indicator



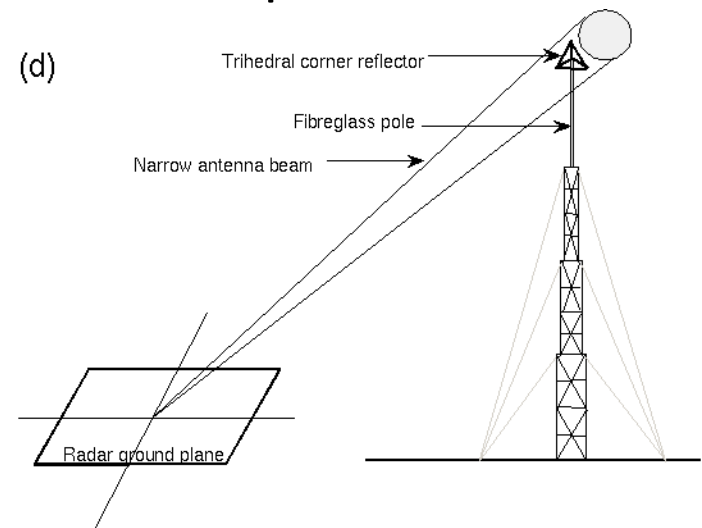
❑ RHI: Range height indicator



❑ VPT: Vertically pointing profile



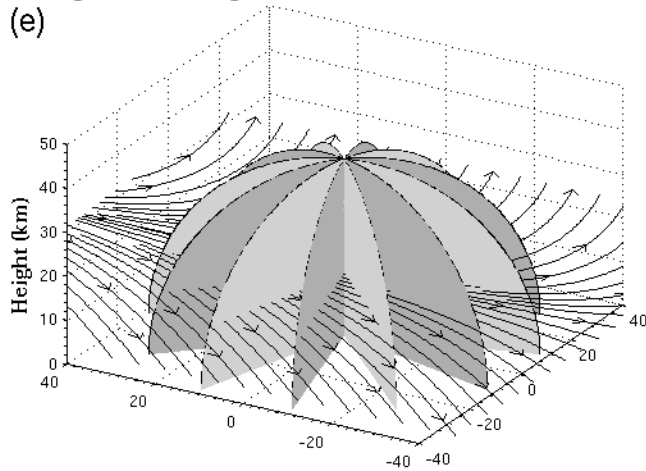
❑ CRCAL: Corner reflector calibration profile



Scan Nomenclature

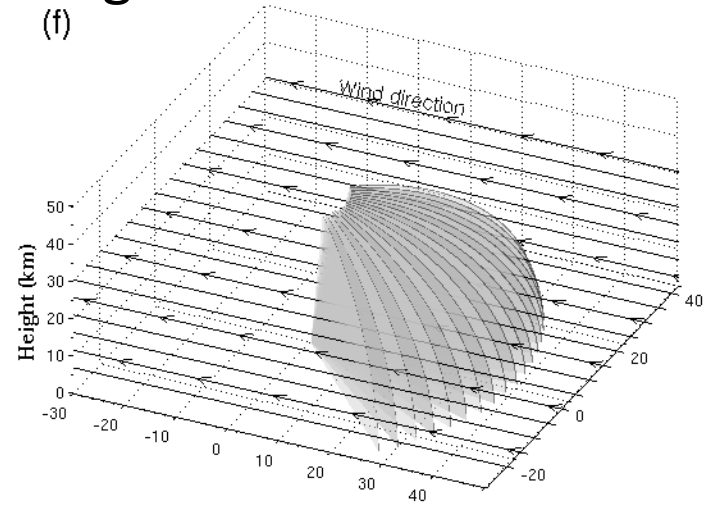
□ HSRHI: Horizon-to-horizon range height indicator

(e)



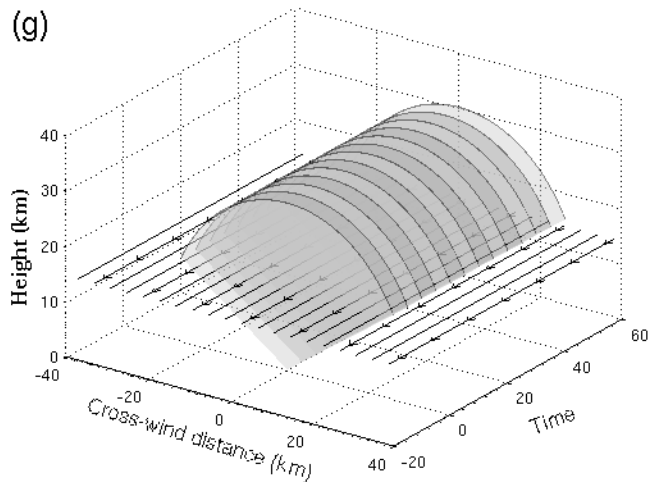
□ BLRHI: Boundary layer range height indicator

(f)



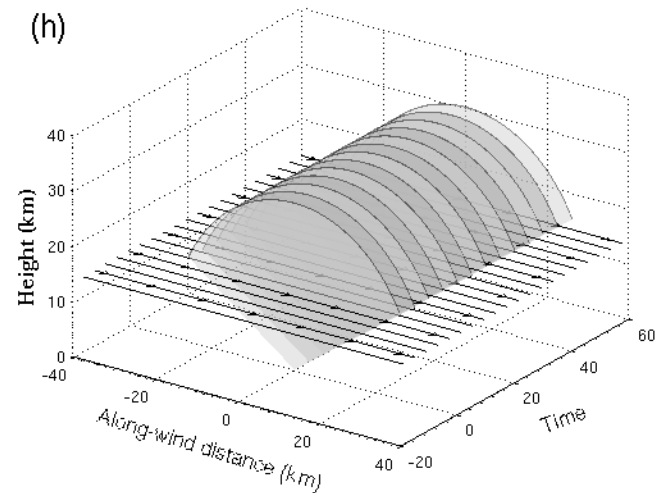
□ CWRHI: Cross-wind range height indicator

(g)



□ AWRHI: Along-wind range height indicator

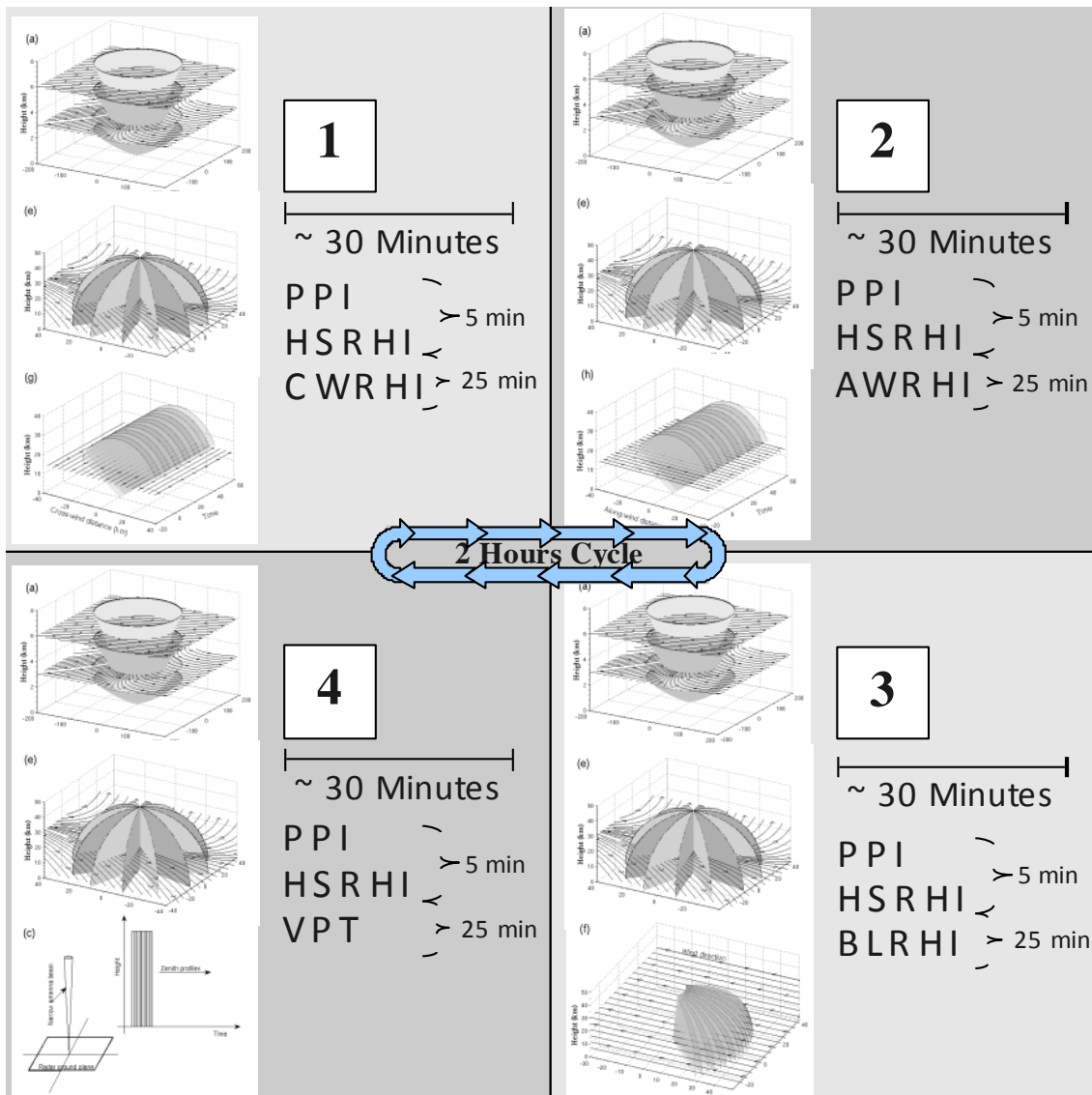
(h)



SACR first generation scan strategy

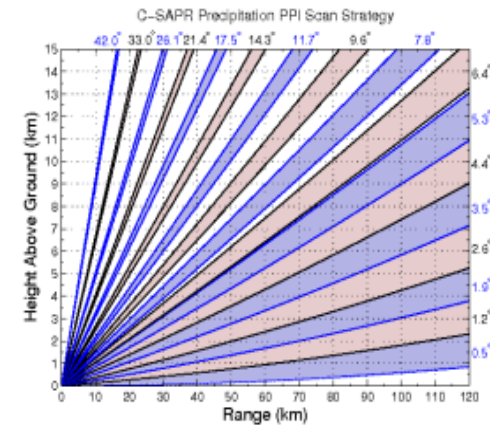
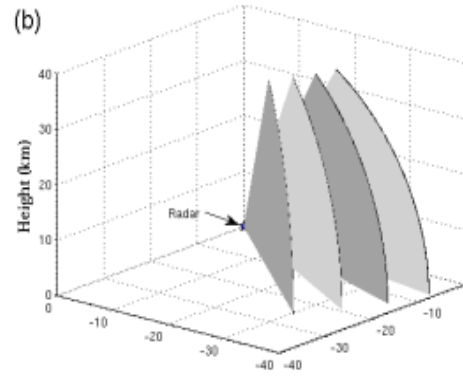
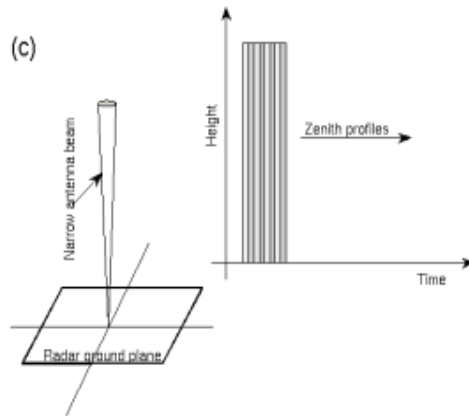
- ❑ The profile integration time is set to sample at the beam-width of the antenna
- ❑ Cloud surveillance scans every 30 minutes: low level PPI sweep at 2 degree elevation and HSRHI scan
- ❑ The wind directions is preliminarily selected based on the climatology of the site
- ❑ Routine corner reflector calibration scan is planned and will become part of the scan pattern once the calibration procedure is verified
- ❑ Data files stored in one cycle (2 hours):

- 1) PPI : 4 files
- 2) HSRHI : 4 files
- 3) CWRHI : 2 files
- 4) ALRHI : 2 files
- 5) VPT : 1 file
- 6) BLRHI : 4 files



C-SAPR first generation scan strategy

10 minutes



PPI: Bird bath; 360 degree sweeps at zenith

RHI: Range height indicator ; sweeps over KAZR

PPI: Plan position indicator

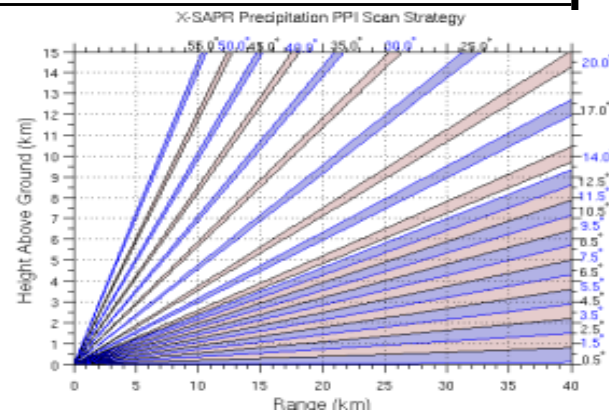
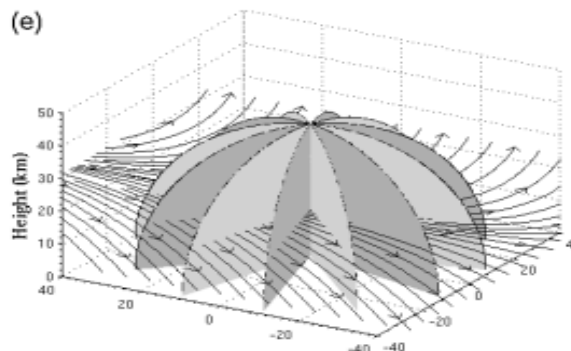
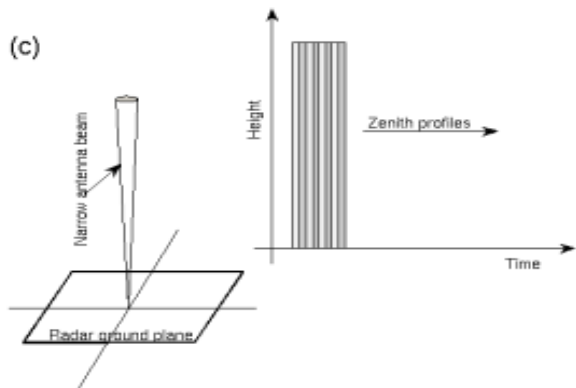
The profile integration time is set to sample at the beam-width of the antenna

Data files stored in one cycle (10 minutes):

- 1) VPT (Bird bath): 1 file
- 2) RHI : 3 sweeps over KAZR, 1 file
- 3) PPI : 17 tilts, 1 file

X-SAPR first generation scan strategy: non-targeted scanning

10 minutes



PPI: Bird bath;
360 degree
sweeps at zenith

HSRHI: Horizon-to-
horizon range height
indicator; sweeps
over KAZR

PPI: Plan position
indicator

The profile integration time is set to sample at the beam-width of the antenna

Data files stored in one cycle (10 minutes):

- 1) VPT (Bird bath): 1 file
- 2) HSRHI : sweeps over KAZR, 1 file
- 3) PPI : 23 tilts, 1 file