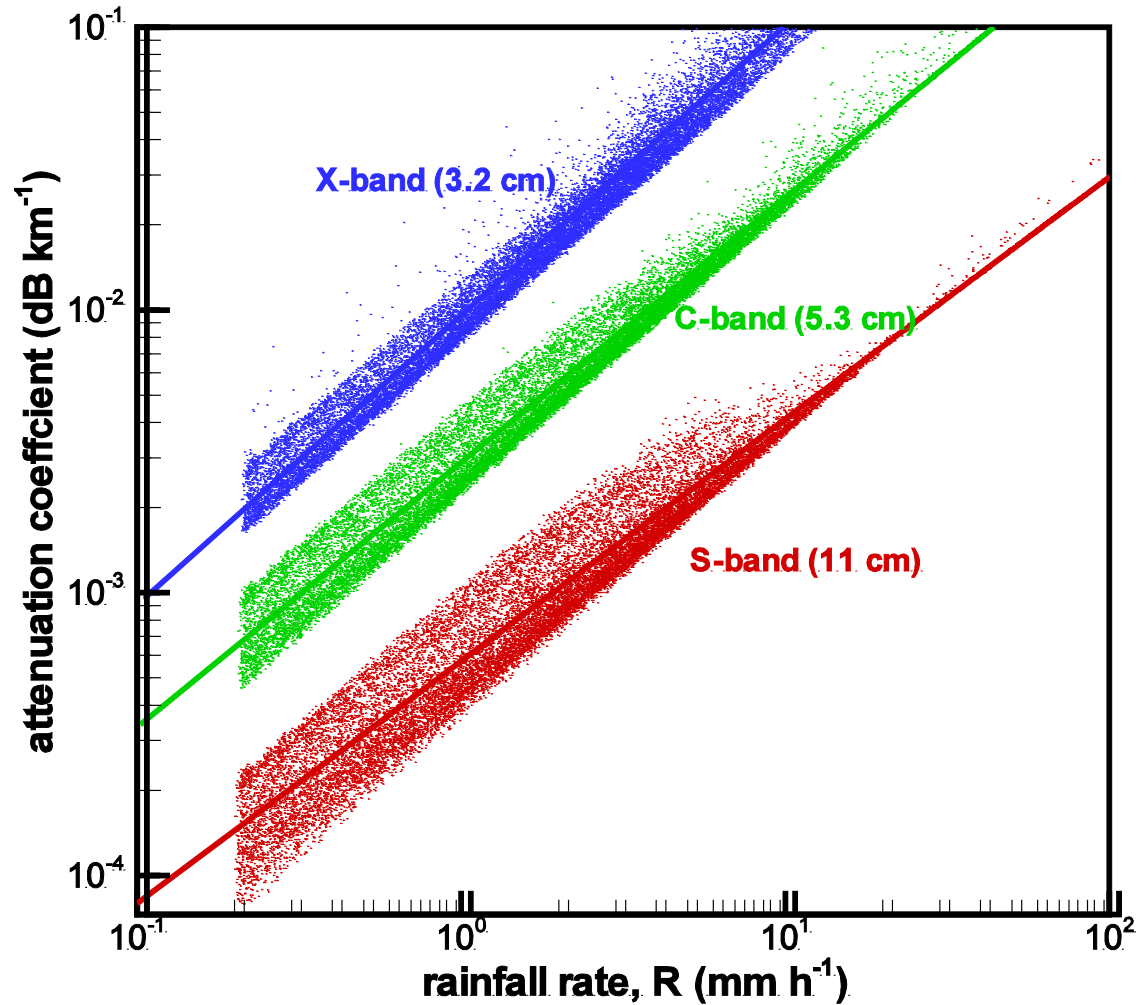


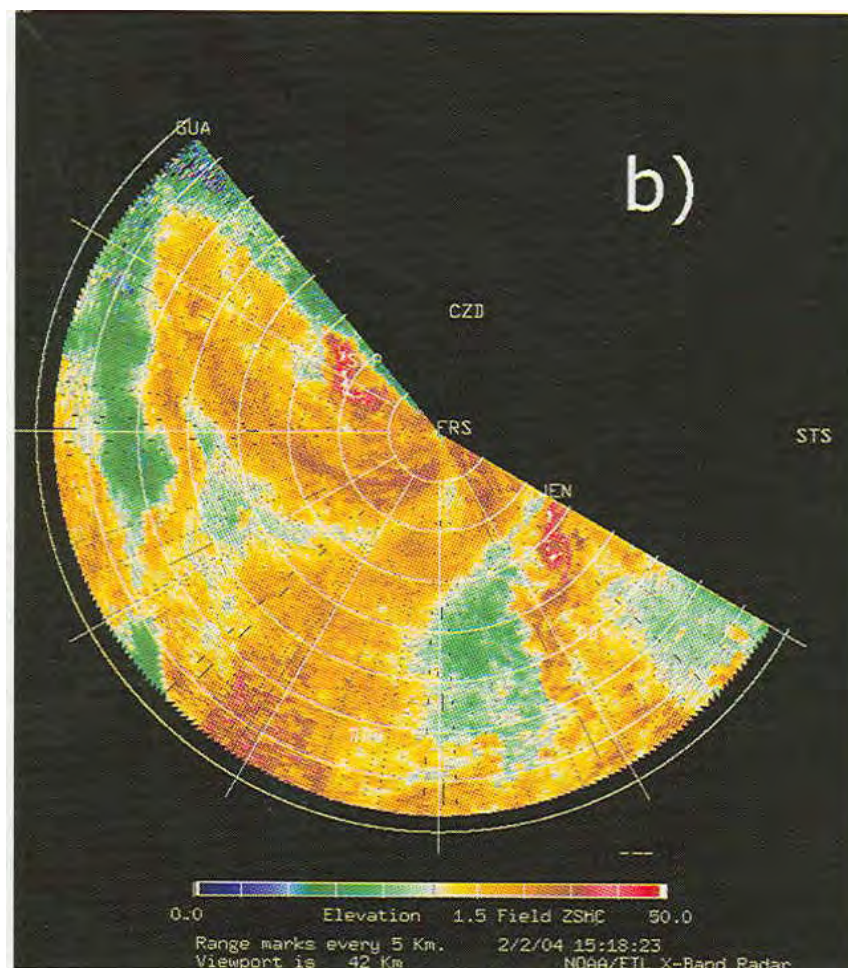
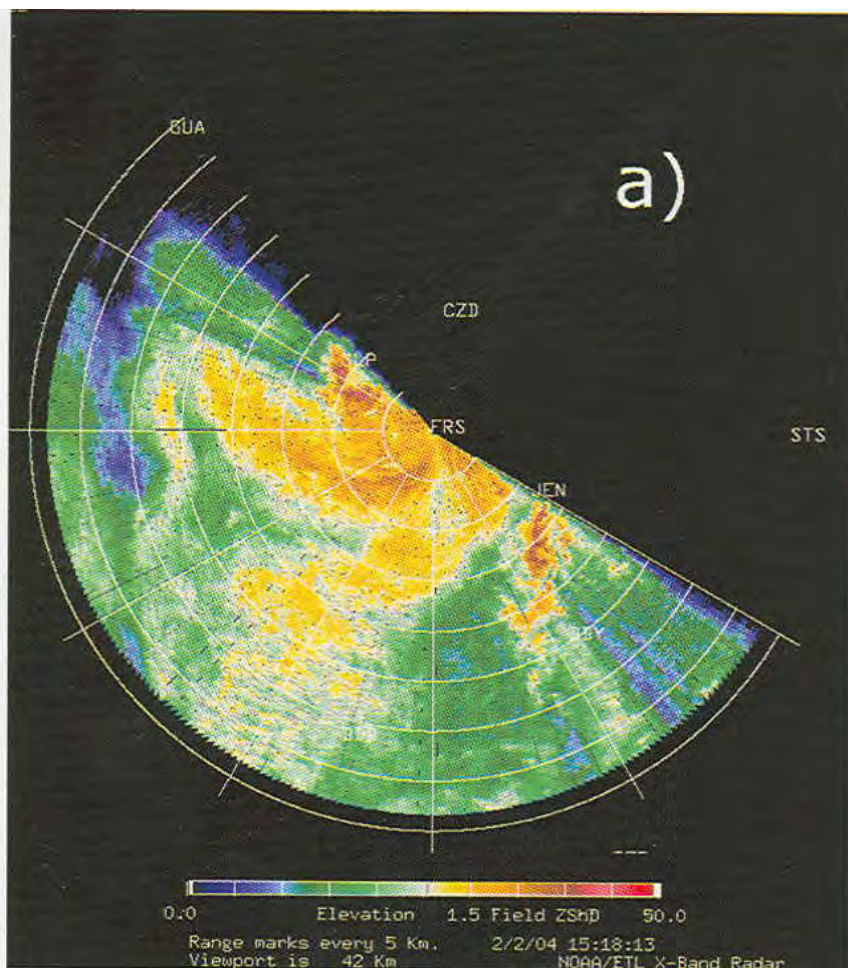
Examples of NOAA X-POL scanning radar measurements

Attenuation is the main problem for X-band radar measurements in rainfall
Polarimetry allows correcting for attenuation effects

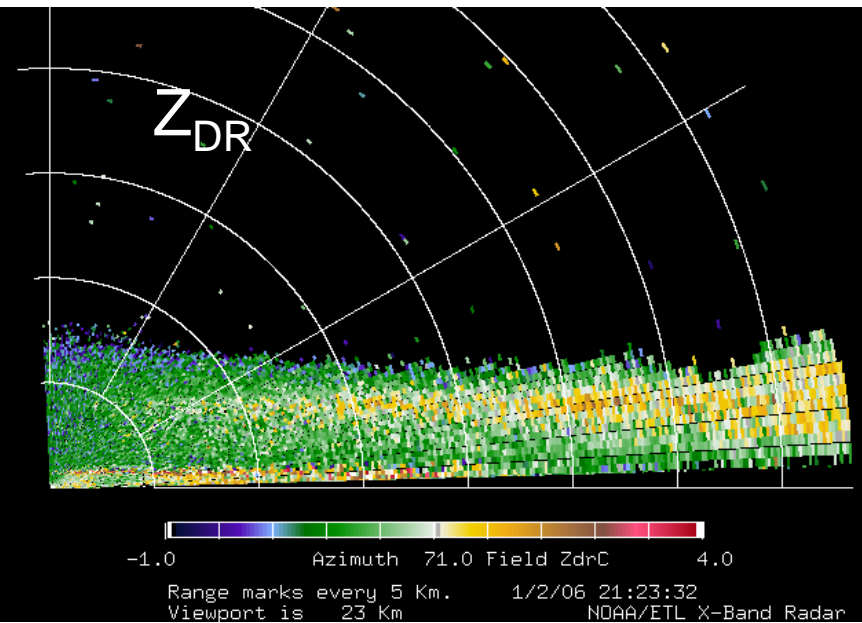
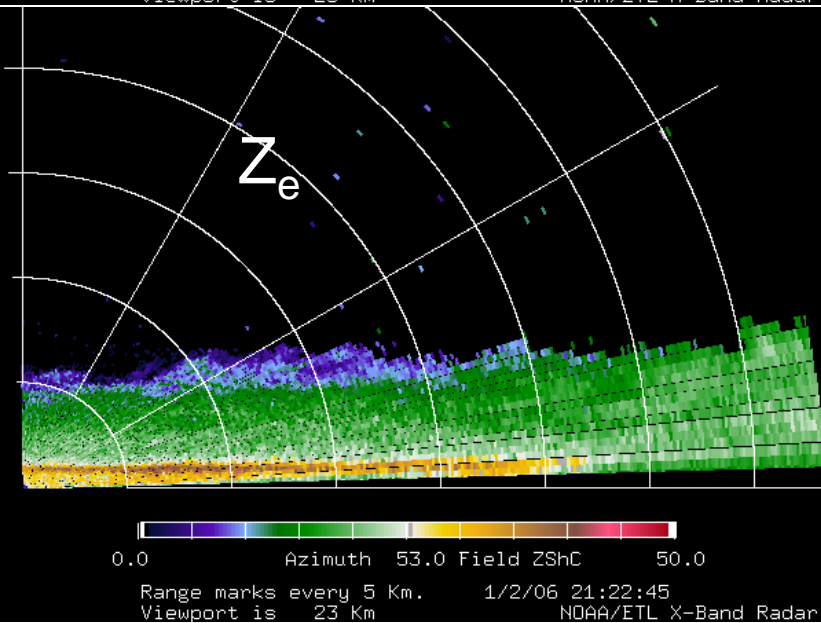
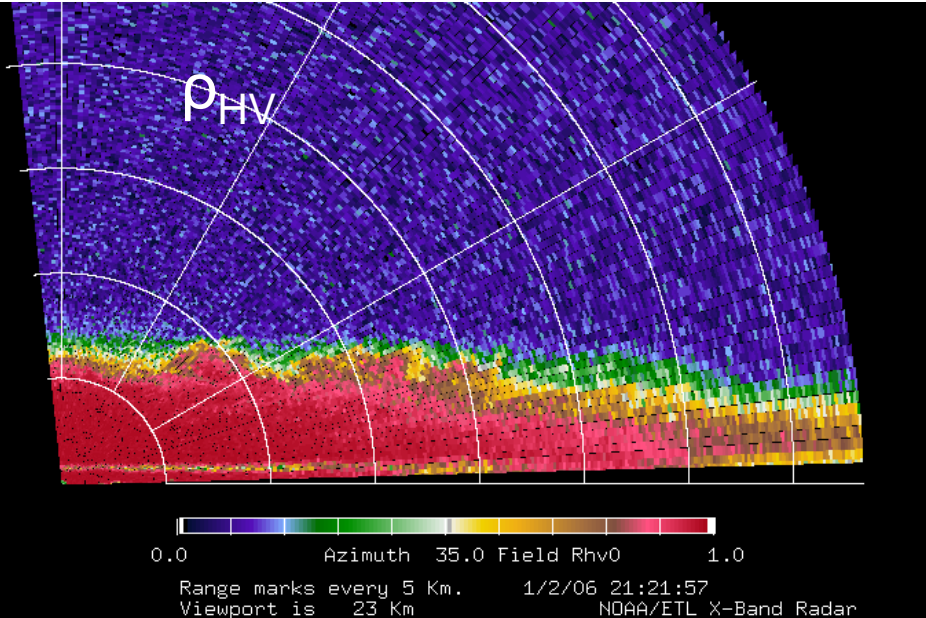


Importance of attenuation correction of X-band radar measurements in rain

- a) observed (i.e., attenuated) X-band radar reflectivity in rain
 - b) for the same scene attenuation – corrected reflectivity
- max range is 40 km in this example



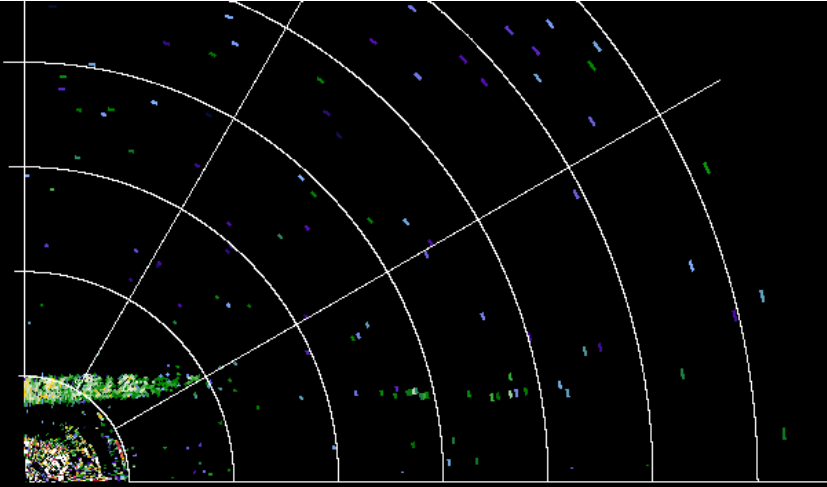
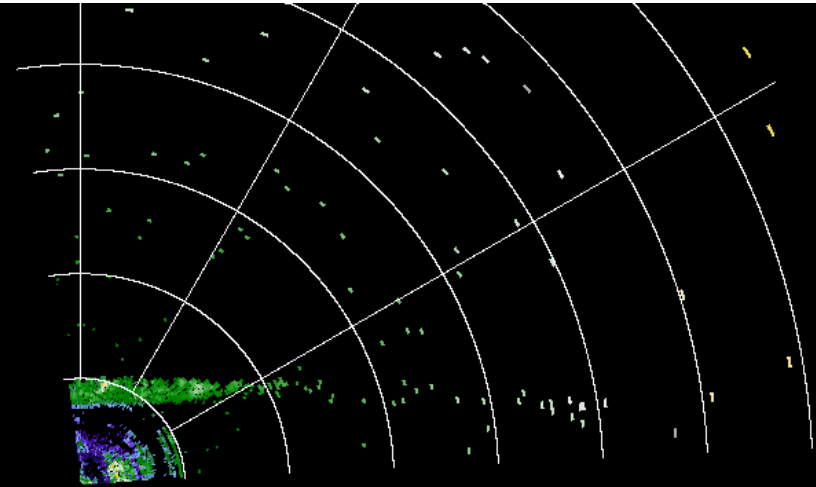
Examples of X-Pol RHIs in precipitation



An example of observations of a stratus cloud with X-Pol in RHI scan

Z_e

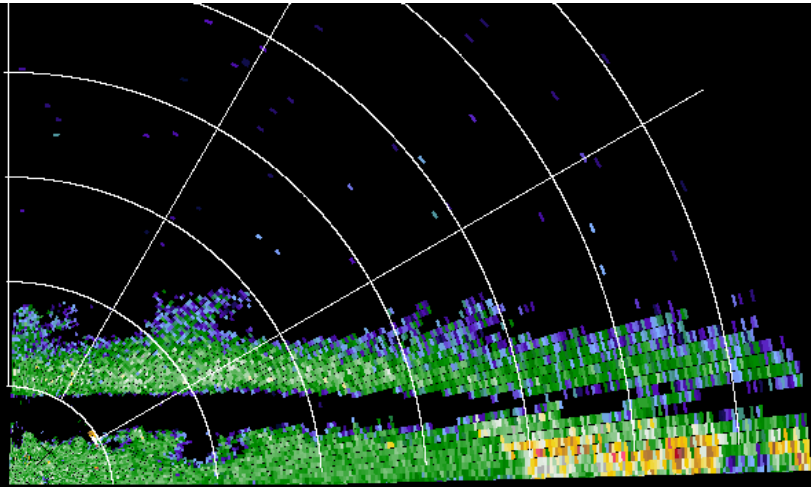
Z_{DR}



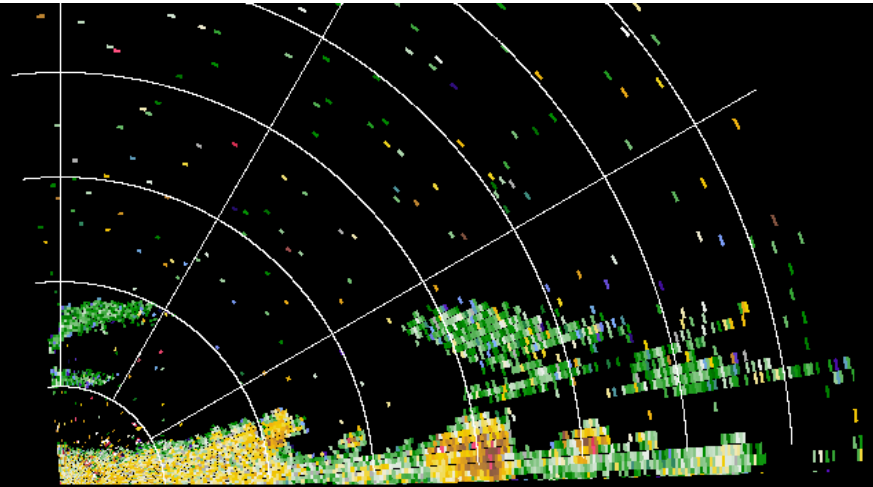
-20.0 Azimuth 61.0 Field ZShD 30.0
Range marks every 5 Km. 1/12/06 19:07:38
Viewport is 23 Km NOAA/ETL X-Band Radar

-1.0 Azimuth 61.0 Field ZdrD 4.0
Range marks every 5 Km. 1/12/06 19:07:43
Viewport is 23 Km NOAA/ETL X-Band Radar

Examples of observations of clouds over precipitation with X-Pol in RHI scan (Z_{DR})



-1.0 Azimuth 41.0 Field ZdrD 4.0
Range marks every 5 Km. 1/11/06 15:28:19
Viewport is 23 Km NOAA/ETL X-Band Radar



-1.0 Azimuth 61.0 Field ZdrC 4.0
Range marks every 5 Km. 1/11/06 10:21:46
Viewport is 23 Km NOAA/ETL X-Band Radar