

How Much Did It Rain? II - Data! Data!! Data!!!

"Remember that the key to this competition is in reducing all the individual radar readings into features that reliably predict rainfall at a weather station."

Any info/links for data(columns) and plots

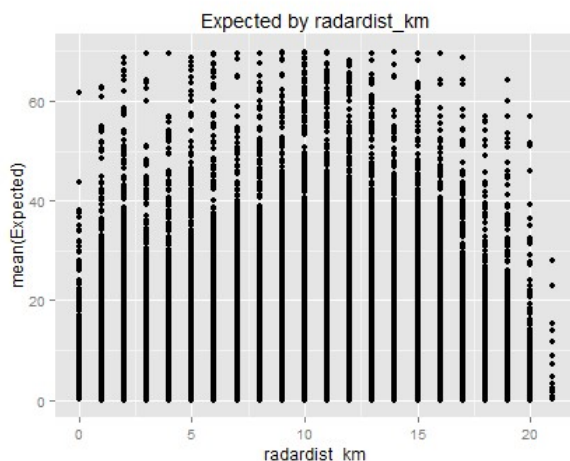
Write any useful information you find below whether online or forums(cite link). Also attach any plots you run. This will save a LOT of time and prevent duplication of effort.

Format for plots:

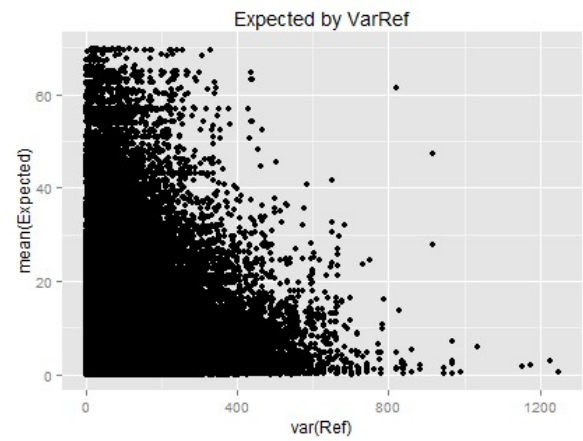
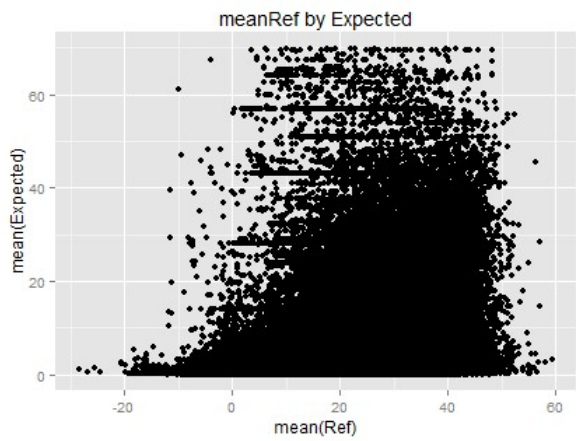
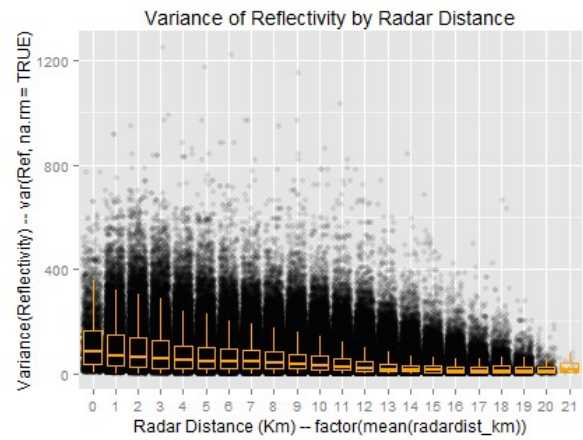
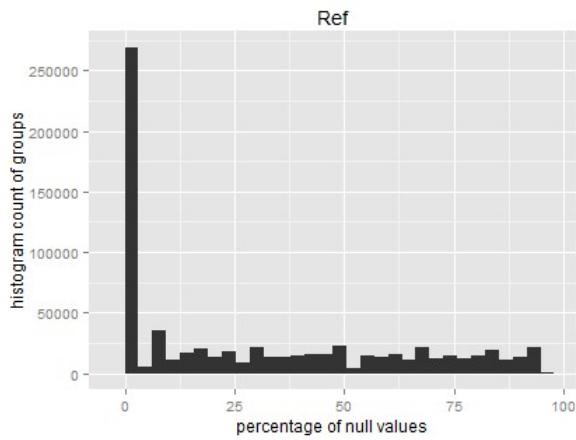
- Upload image using Drag-Drop over the Bitbucket's online Markdown editor
- Label plots correctly -> Title, X-axis, Y-axis

Column Description and Plots

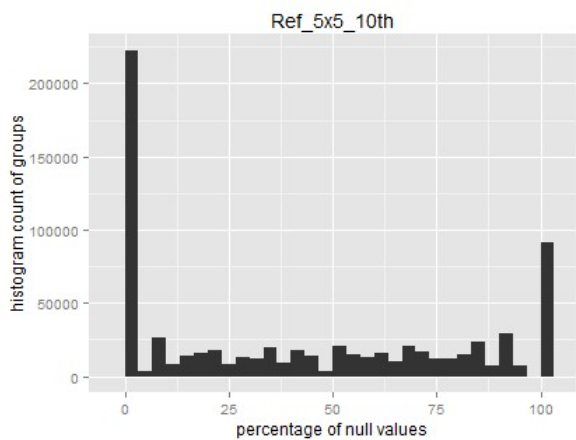
- Id: 'A unique number for the set of observations over an hour at a gauge'. Entries are randomly shuffled. Only need to make predictions where an 'Id' has atleast one non-NA value in 'Ref' column.
DD: *[non_null][long][unique for each group/hour]*
- minutes_past: 'For each set of radar observations, the minutes past the top of the hour that the radar observations were carried out. Radar observations are snapshots at that point in time.'
DD: *[non_null][int][unique within each group/hour]*
- radardist_km: 'Distance of gauge from the radar whose observations are being reported.'
DD: *[non_null][int][unique for each group/hour]*



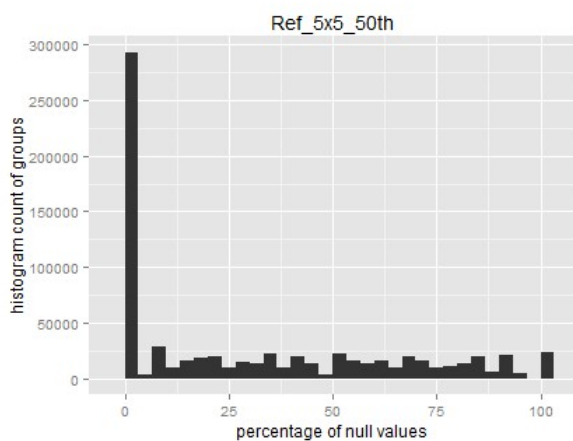
- Ref: 'Radar reflectivity in dBZ(not km)'
DD: *[nullable][float]*
Missing rows: 30.4203 %, Missing rows(exp<70): 30.1291 %



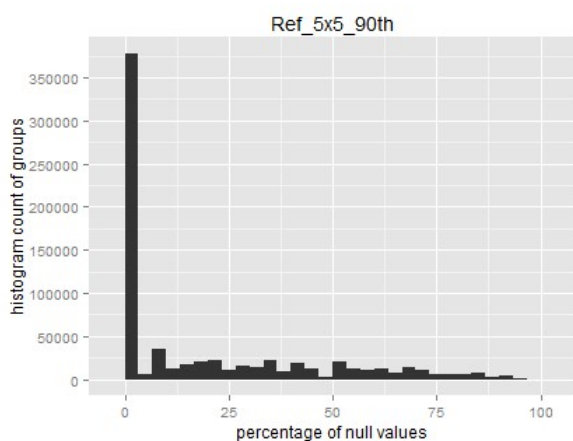
- Ref_5x5_10th: '10th percentile of reflectivity values in 5x5 neighborhood around the gauge.'
 DD: `[nullable][float]`
 Missing rows: 42.0959%, Missing rows(exp<70): 41.7357



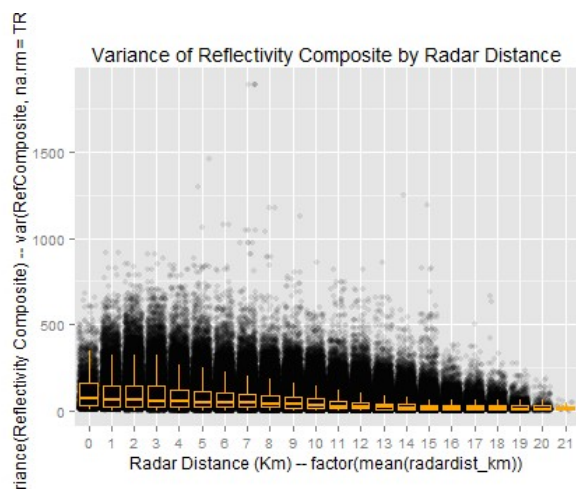
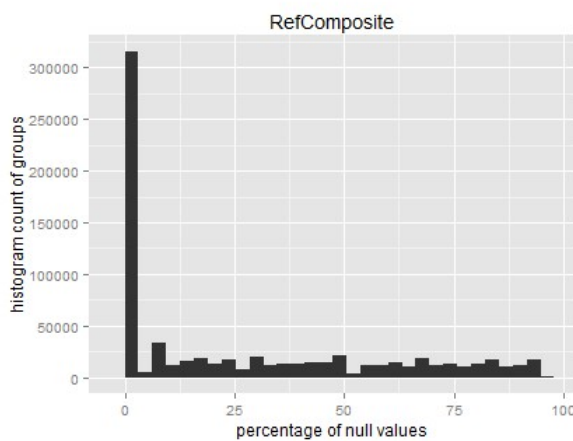
- Ref_5x5_50th: '50th percentile'
 DD: `[nullable][float]`
 Missing rows: 30.3813%, Missing rows(exp<70): 30.0563%

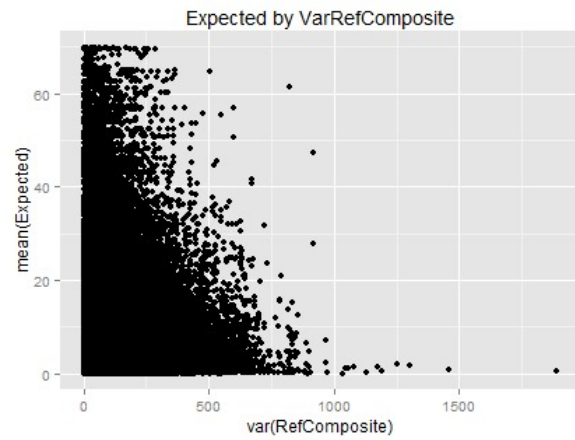
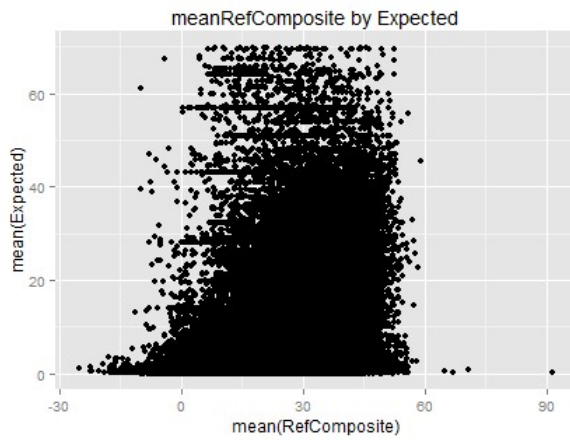


- Ref_5x5_90th: '90th percentile'
DD: `[nullable][float]` Missing rows: 18.7013%, Missing rows(exp<70): 18.4878%

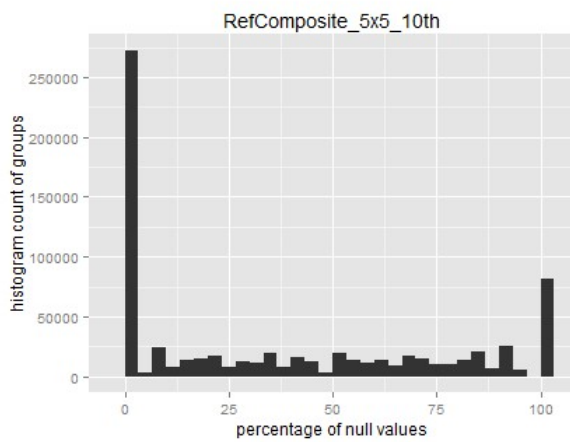


- RefComposite: 'Maximum reflectivity in the vertical column above gauge. In dBZ.'
DD: `[nullable][float]`
Missing rows: 26.6234%, Missing rows(exp<70):26.3359 %

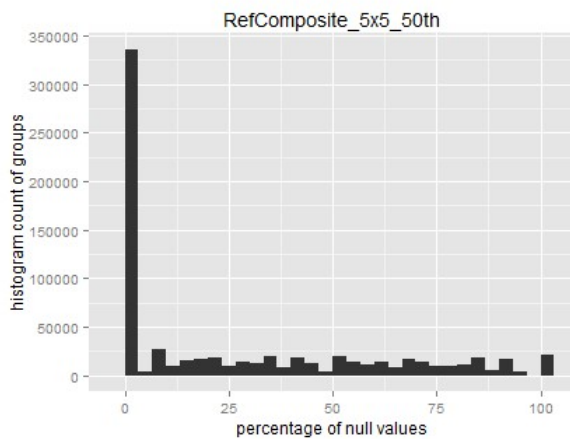




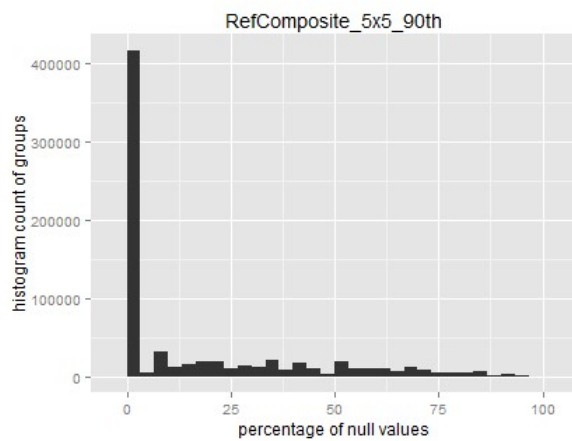
- RefComposite_5x5_10th
Missing rows: 37.0161%, Missing rows(exp<70): 36.6406%



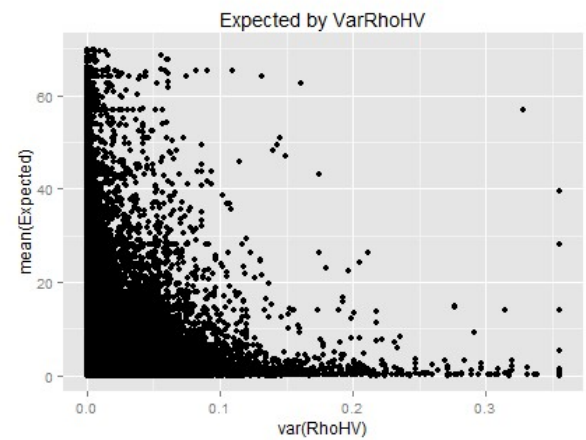
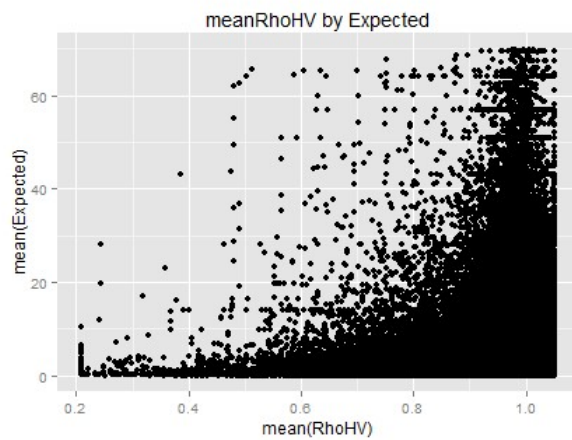
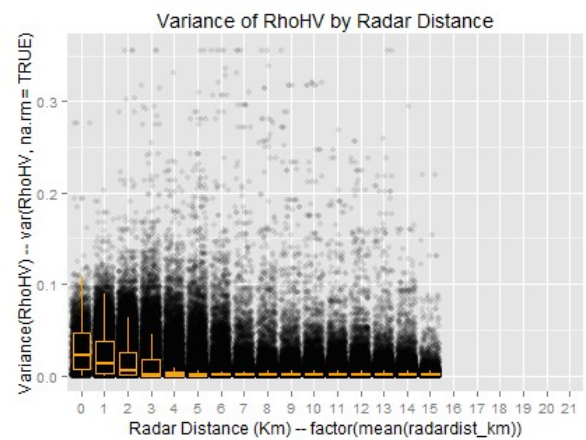
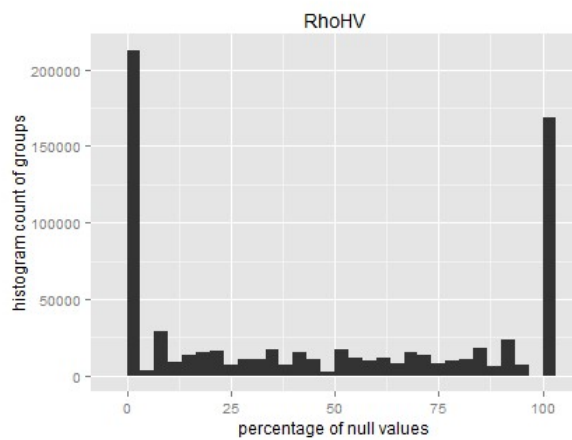
- RefComposite_5x5_50th
Missing rows: 26.6737%, Missing rows(exp<70): 26.3554%



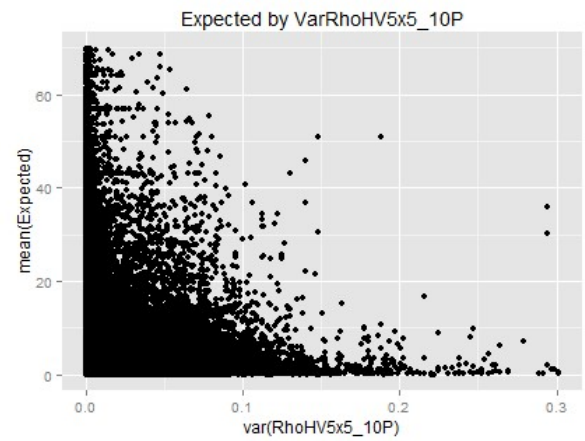
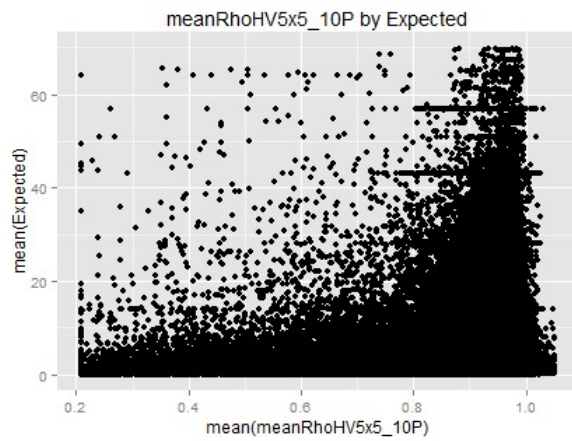
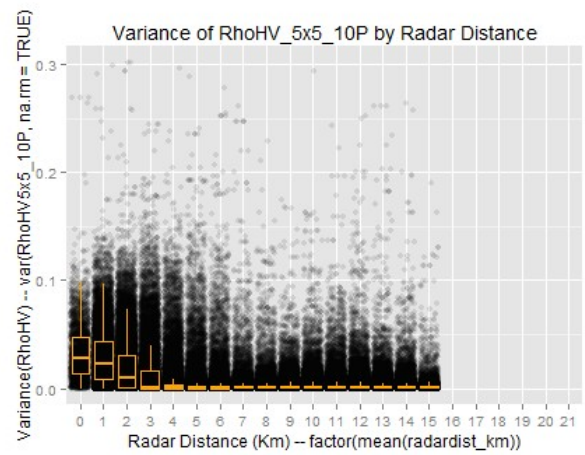
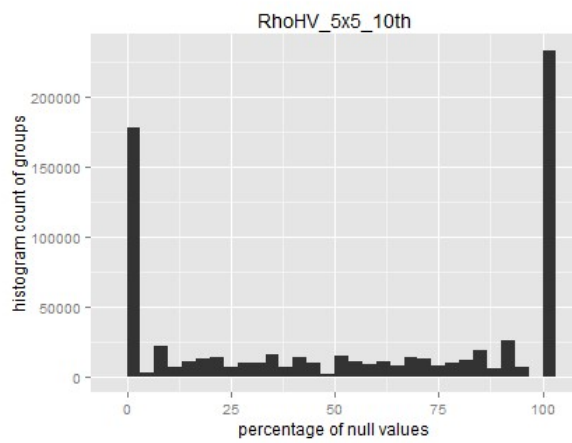
- RefComposite_5x5_90th
Missing rows: 16.1253%, Missing rows(exp<70): 15.9302%



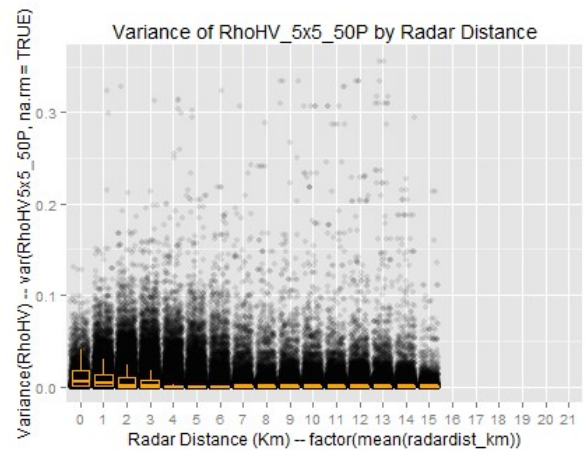
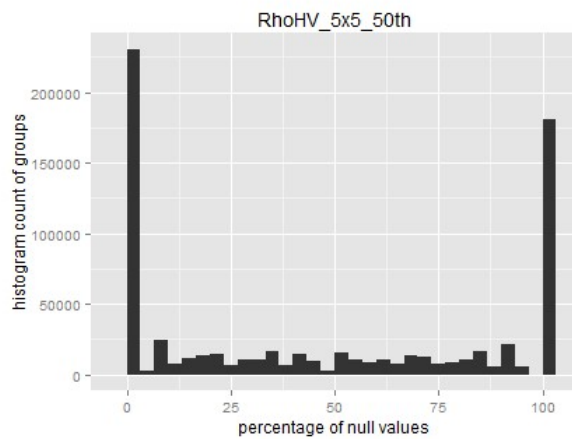
- RhoHV: 'Correlation coefficient (unitless)'
Missing rows: 47.2759%, Missing rows(exp<70): 46.9695%

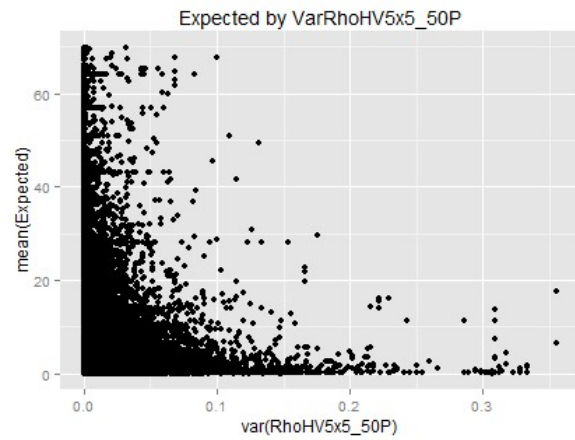
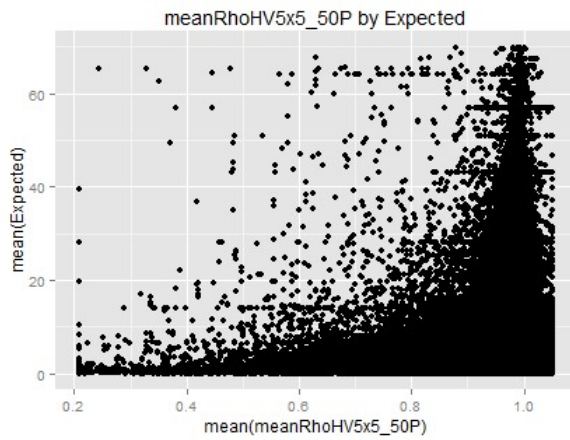


- RhoHV_5x5_10th
Missing rows: 55.3643%, Missing rows(exp<70): 55.0373%

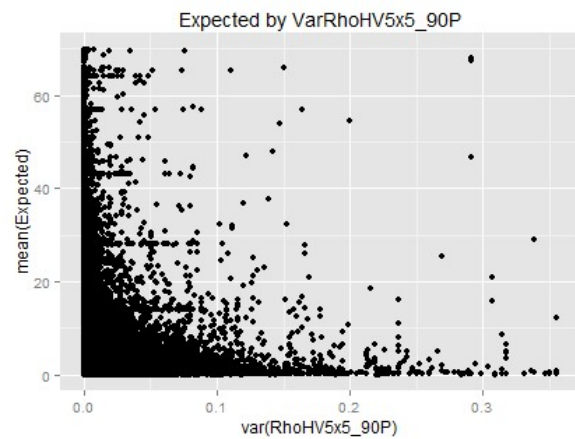
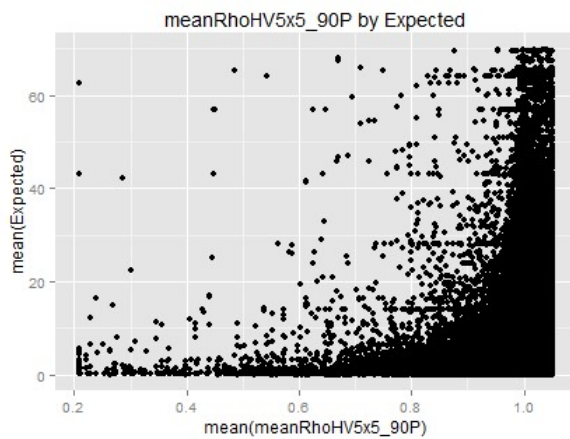
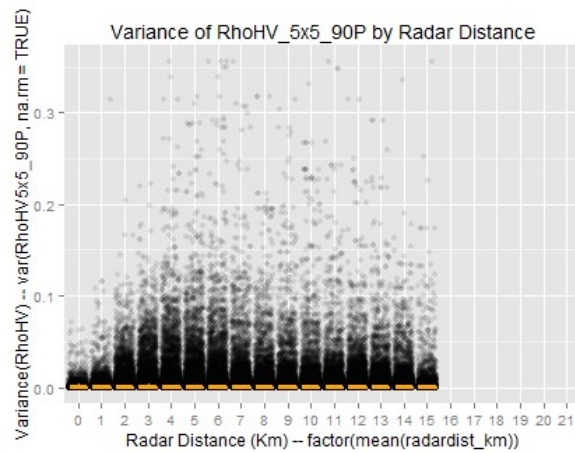
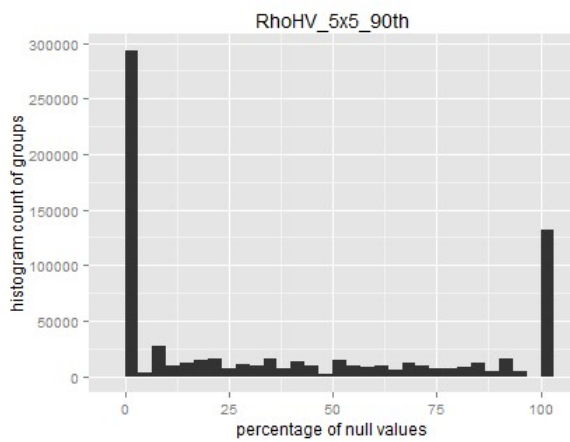


- RhoHV_5x5_50th
Missing rows: 47.1279%, Missing rows(exp<70): 46.8108%

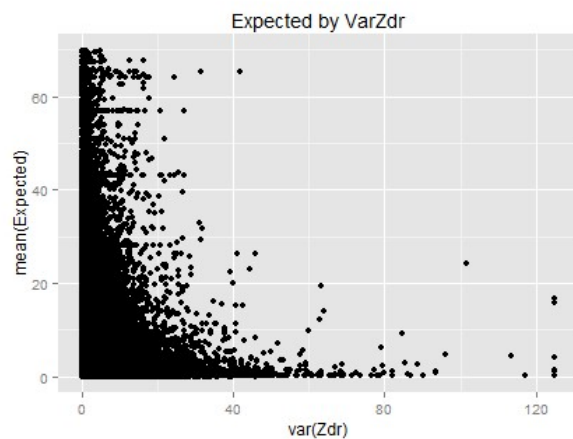
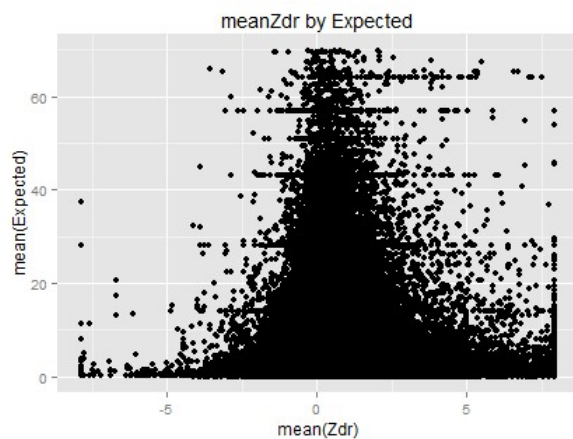
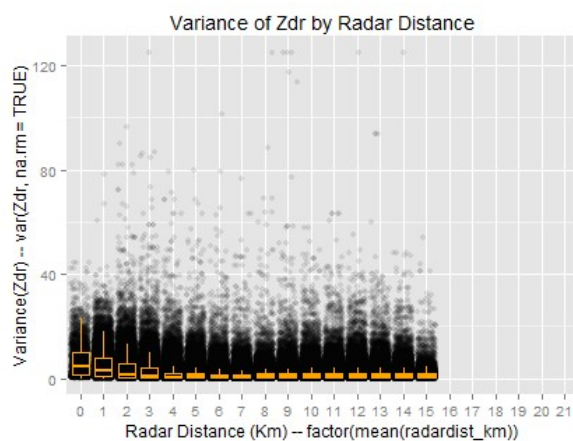
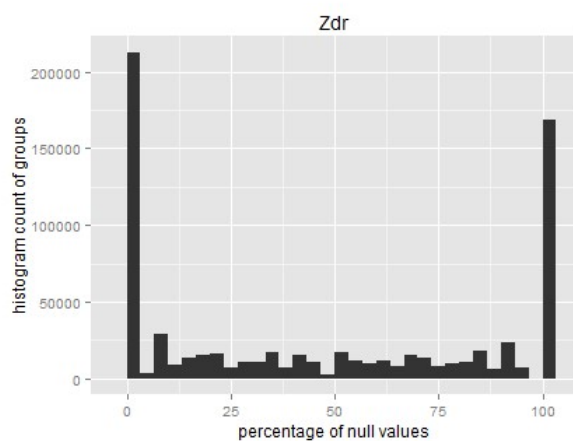




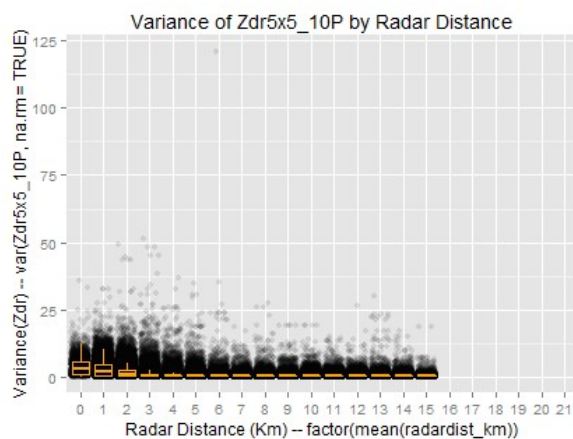
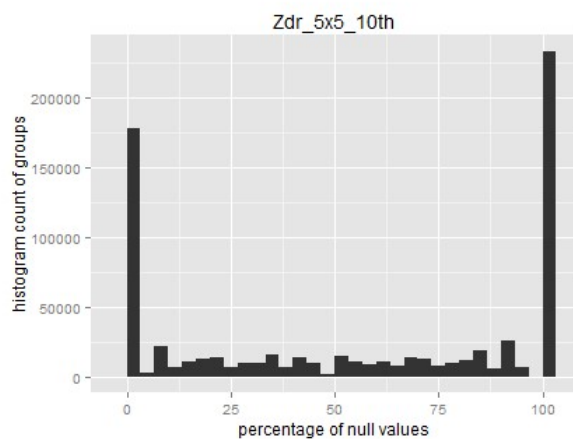
- RhoHV_5x5_90th
Missing rows: 37.8991%, Missing rows(exp<70): 37.6312%

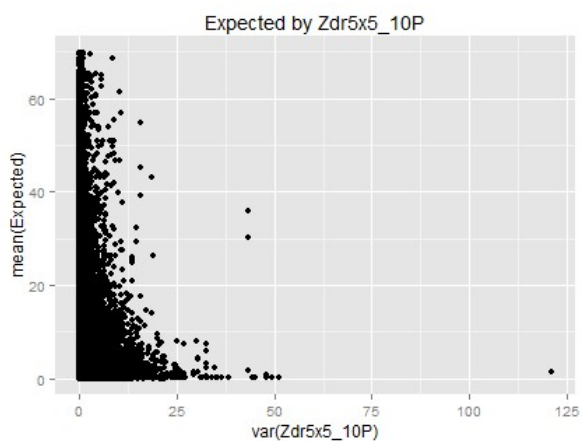
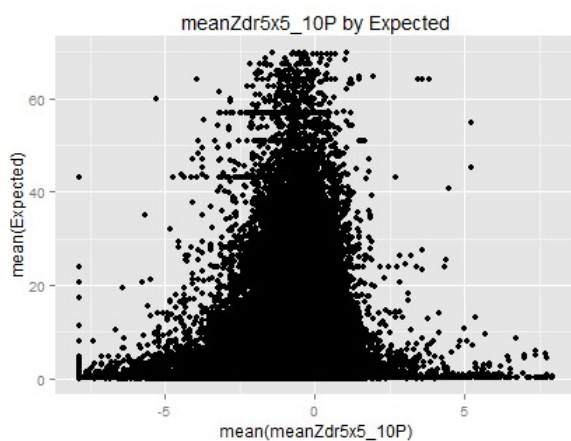


- Zdr: 'Differential reflectivity in dBZ'
Missing rows: 47.2759%, Missing rows(exp<70): 46.9695%

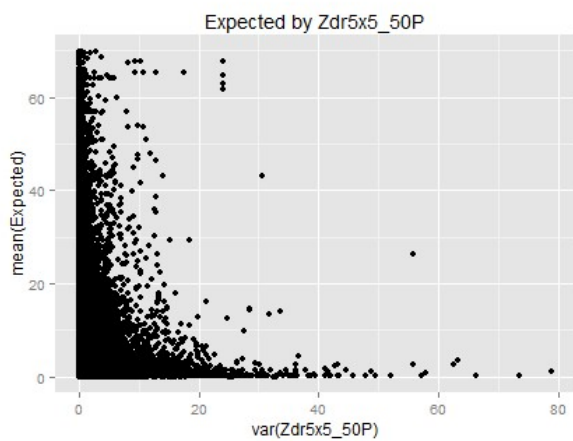
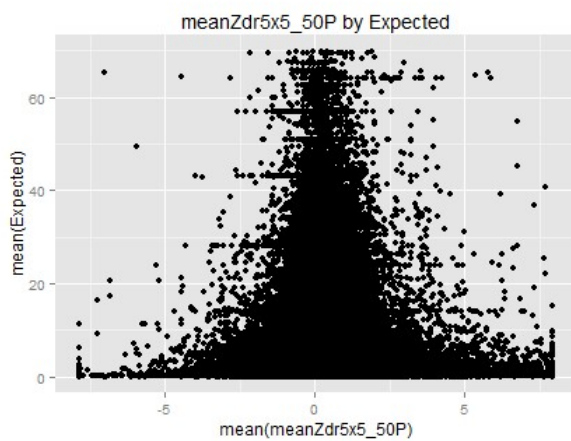
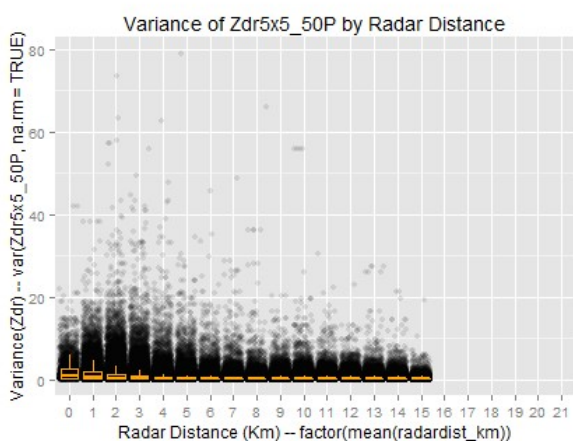
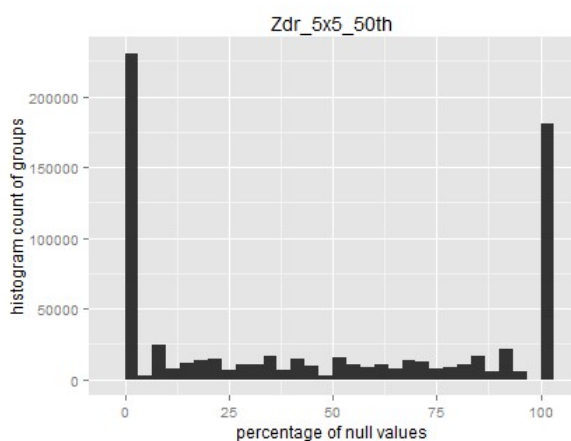


- Zdr_5x5_10th
Missing rows: 55.3643%, Missing rows(exp<70): 55.0373%

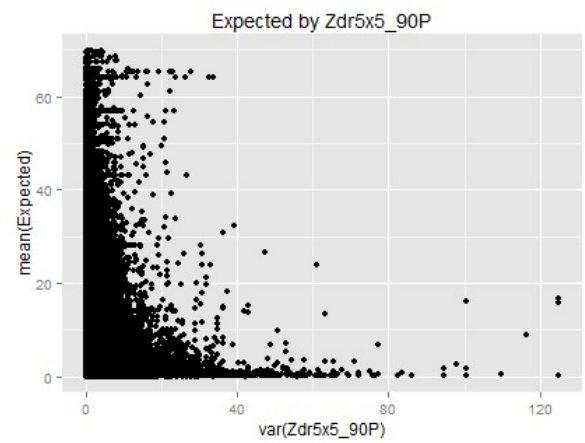
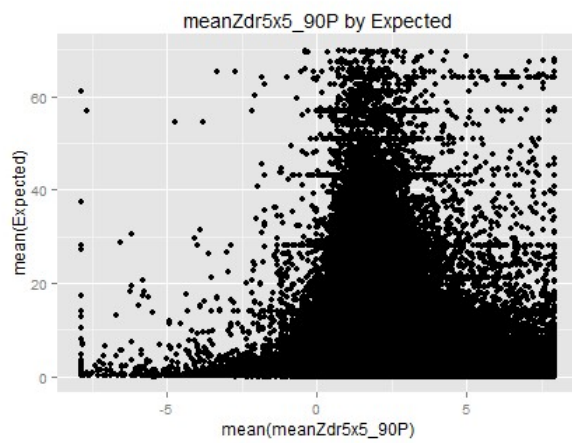
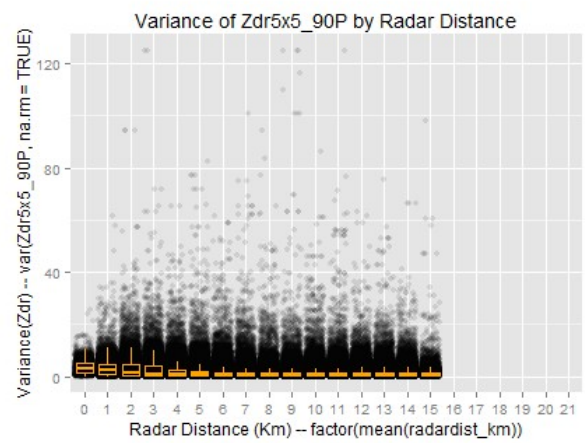
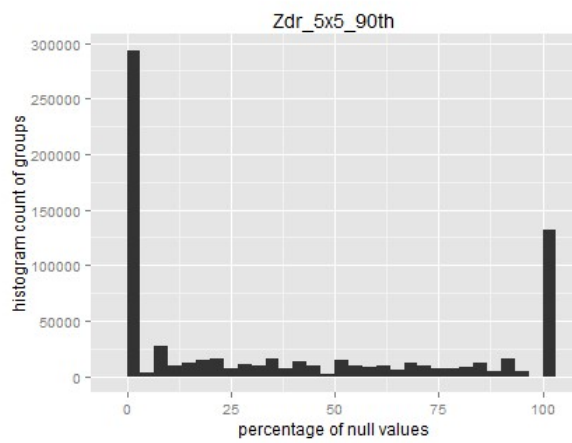




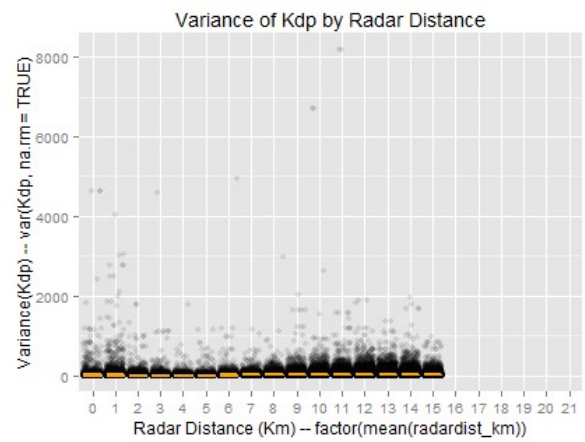
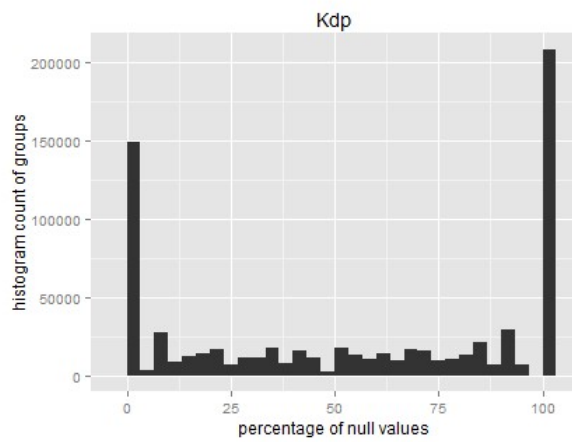
- Zdr_5x5_50th
Missing rows: 47.1279%, Missing rows(exp<70): 46.8108%

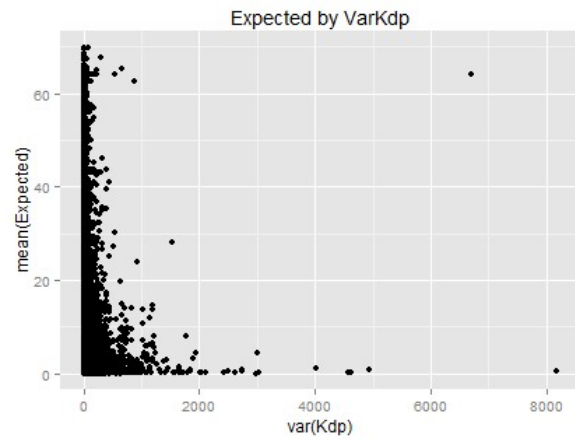
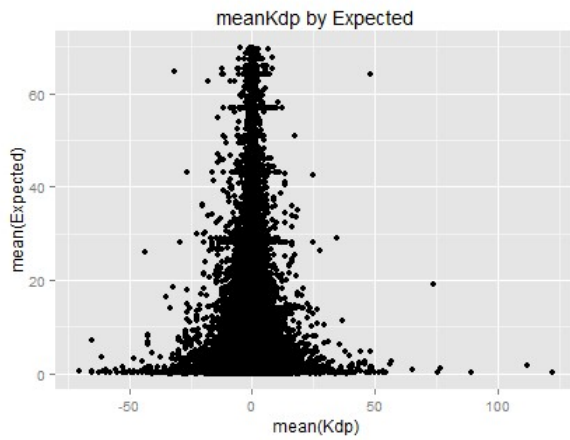


- Zdr_5x5_90th
Missing rows: 37.8991%, Missing rows(exp<70): 37.6312%

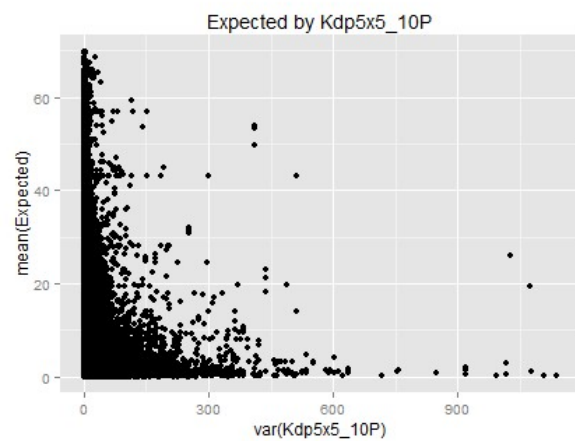
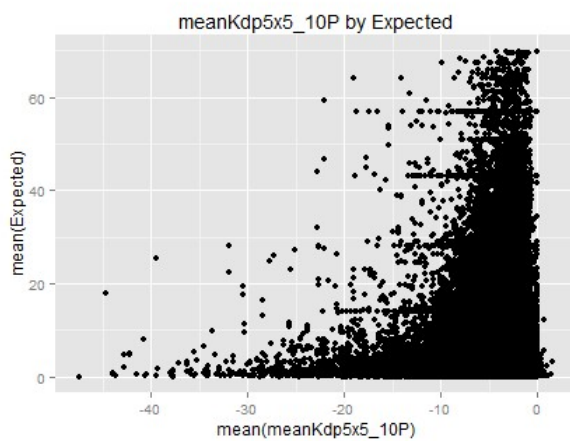
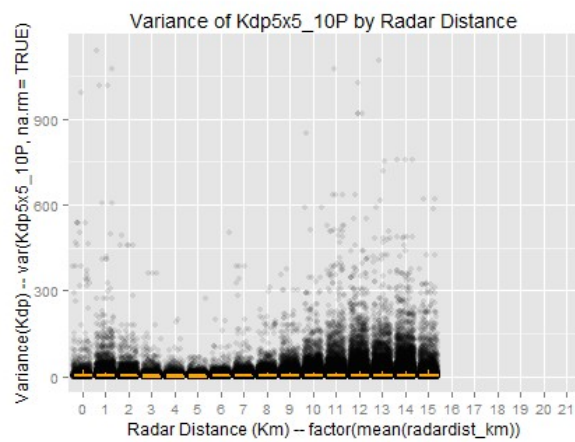
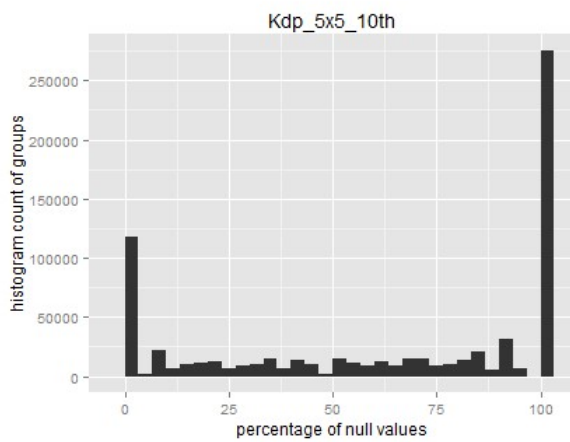


- Kdp: 'Specific differential phase (deg/km)'
- Missing rows: 55.1931%, Missing rows(exp<70): 54.9185%

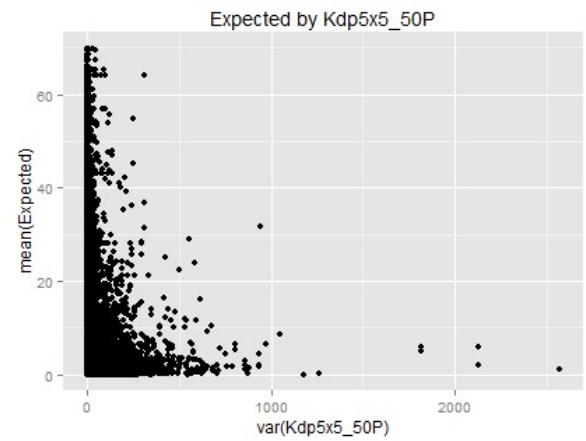
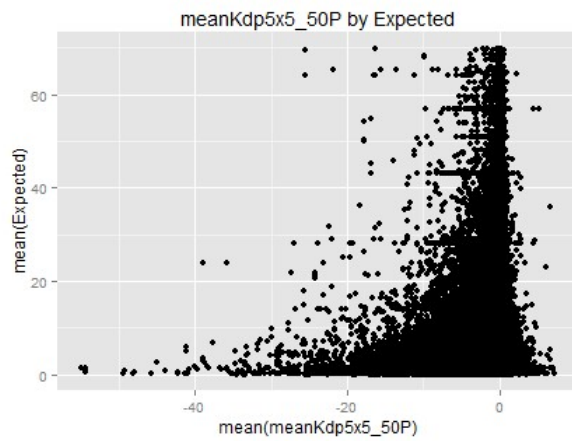
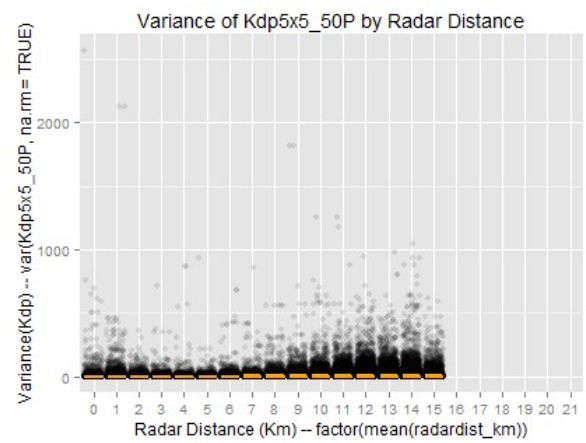
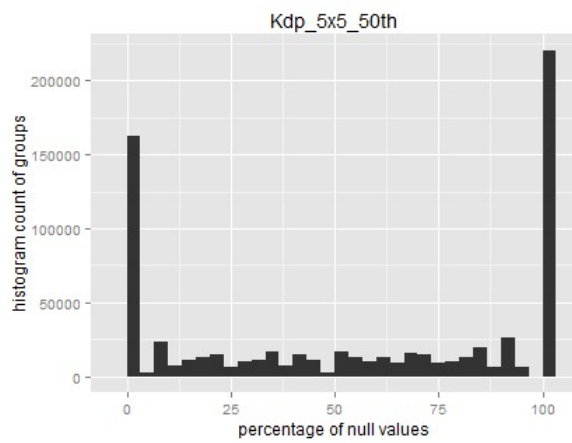




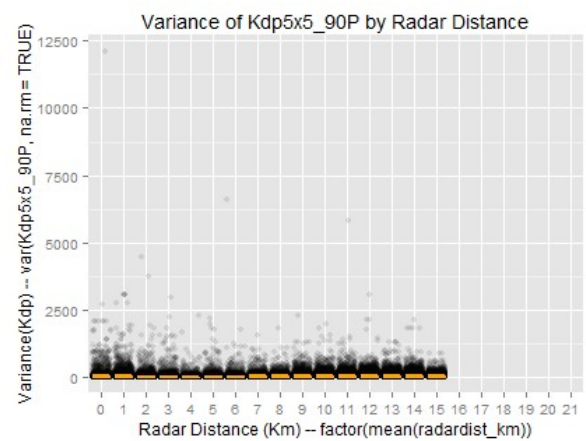
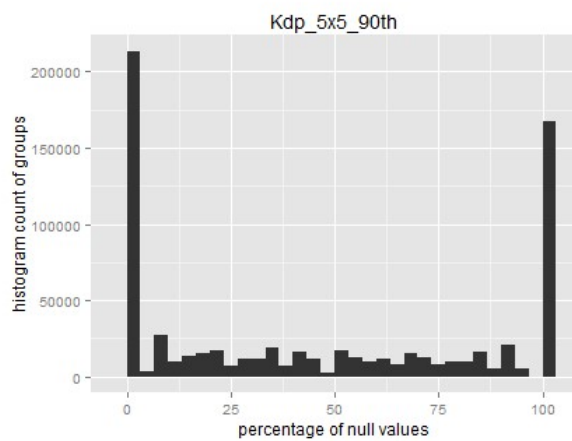
- Kdp_5x5_10th
Missing rows: 62.9656%, Missing rows(exp<70): 62.7051%

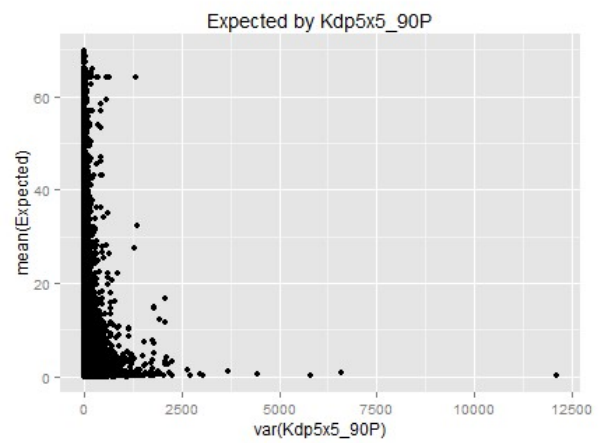
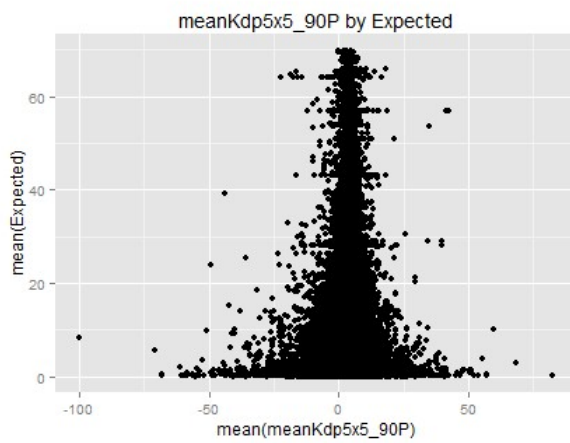


- Kdp_5x5_50th
Missing rows: 55.0810%, Missing rows(exp<70): 54.8043%



- Kdp_5x5_90th
Missing rows: 46.3749%, Missing rows(exp<70): 46.0879%





- Expected: 'Actual gauge observation in mm at the end of the hour.'
DD: *[non-null][float]*

Updated 2015-11-05

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