

KLSX Ku-adjusted DSD vs. DPR 2ADPR/NS/V05A  $\geq 50\%$  bins above threshold  
 Orbit: 22820 -- GR Start Time: 2018-03-05 12:59:01

DPR 2ADPR-GR Reflectivity difference statistics (dBZ) - GR Site: KLSX

Orbit: 22820 Version: V05A Swath Type: NS

DPR time = 2018-03-05 13:01:11 GR start time = 2018-03-05 12:59:01

Required percent of above-threshold DPR and GR bins in matched volumes >= 50%

Thresholding by reflectivity cutoffs and by GR\_blockage.

GR reflectivity has S-to-Ku frequency adjustments applied.

Mean Reflectivity Statistics grouped by fixed height levels (km):

Vert.	Any Rain Type		Stratiform		Convective		Dataset Statistics			
Layer	DPR-GR	NumPts	DPR-GR	NumPts	DPR-GR	NumPts	AvgDist	DPRMaxZ	GRMaxZ	
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
1.0	1.239	20	1.094	18	3.111	2	83.481	26.420	25.801	
2.0	1.698	77	0.995	36	2.257	41	69.302	42.626	41.793	@ BB
3.0	2.482	66	1.756	27	2.942	39	61.333	40.115	37.973	@ BB
4.0	3.504	31	2.719	6	3.689	25	62.604	37.692	33.824	
5.0	2.800	13	1.601	3	3.082	10	65.532	34.362	31.505	
6.0	2.218	2	-99.999	0	2.218	2	58.997	26.687	26.370	

Mean Reflectivity Statistics grouped by proximity to Bright Band:

Surface	Any Rain Type		Stratiform		Convective		Dataset Statistics			
type	DPR-GR	NumPts	DPR-GR	NumPts	DPR-GR	NumPts	AvgDist	DPRMaxZ	GRMaxZ	
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
Below	1.247	15	1.162	11	1.431	4	34.924	37.230	41.260	

GR Dm field is being directly compared to DPR Dm.

Mean Drop Diameter (Dm, in mm) Statistics grouped by fixed height levels (km):

Vert.	Any Rain Type		Stratiform		Convective		Dataset Statistics		
Layer	DPR-GR	NumPts	DPR-GR	NumPts	DPR-GR	NumPts	AvgDist	DPRMaxDm	GRMaxDm
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
1.0	-0.061	5	0.009	3	-0.185	2	66.582	1.388	1.312

No above-threshold points at height 2.000

No above-threshold points at height 3.000

No above-threshold points at height 4.000

No above-threshold points at height 5.000

No above-threshold points at height 6.000

Mean Drop Diameter (Dm, in mm) Statistics grouped by proximity to Bright Band:

Surface	Any Rain Type		Stratiform		Convective		Dataset Statistics		
type	DPR-GR	NumPts	DPR-GR	NumPts	DPR-GR	NumPts	AvgDist	DPRMaxDm	GRMaxDm
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Below	-0.028	15	0.006	11	-0.103	4	34.924	1.840	1.657

GR NW field is being directly compared to DPR Nw.

Mean Normalized Intercept Parameter (  $\log_{10}(\text{Nw})$  ) Statistics grouped by fixed height levels (km):

Vert.	Any Rain Type		Stratiform		Convective		Dataset Statistics		
Layer	DPR-GR	NumPts	DPR-GR	NumPts	DPR-GR	NumPts	AvgDist	DPRMaxNw	GRMaxNw
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
1.0	0.403	5	0.137	3	0.877	2	66.582	3.660	3.294

No above-threshold points at height 2.000

No above-threshold points at height 3.000

No above-threshold points at height 4.000

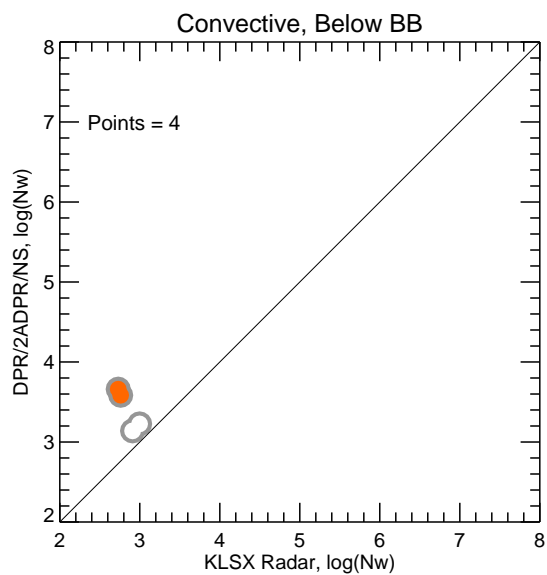
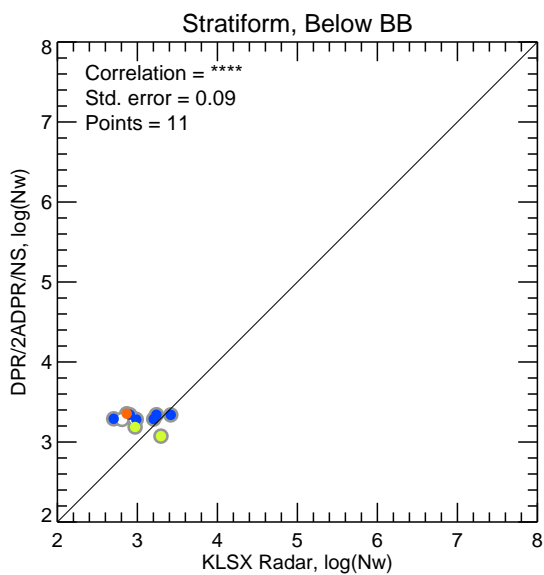
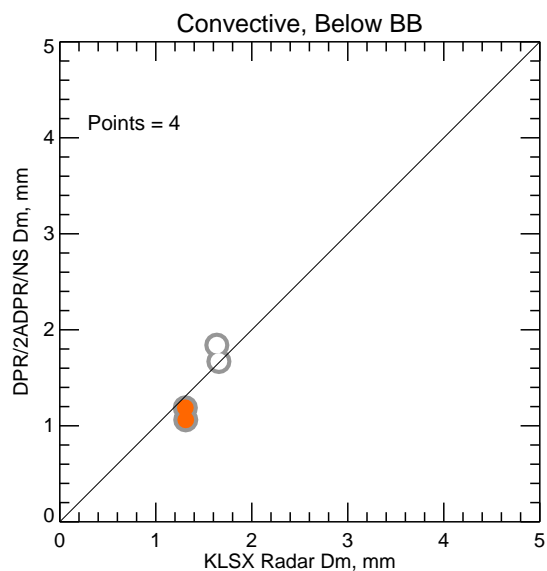
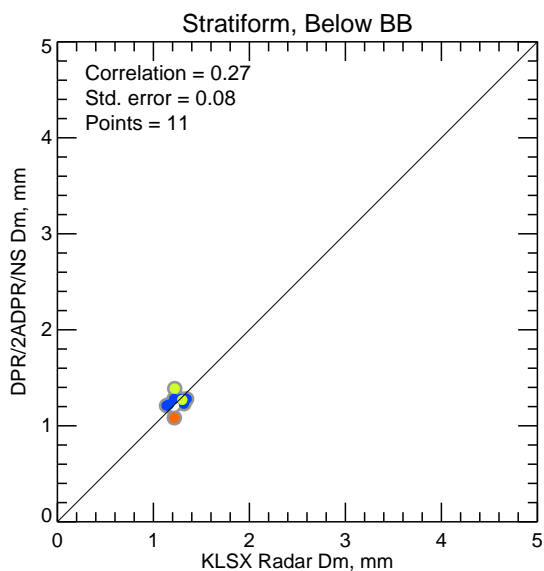
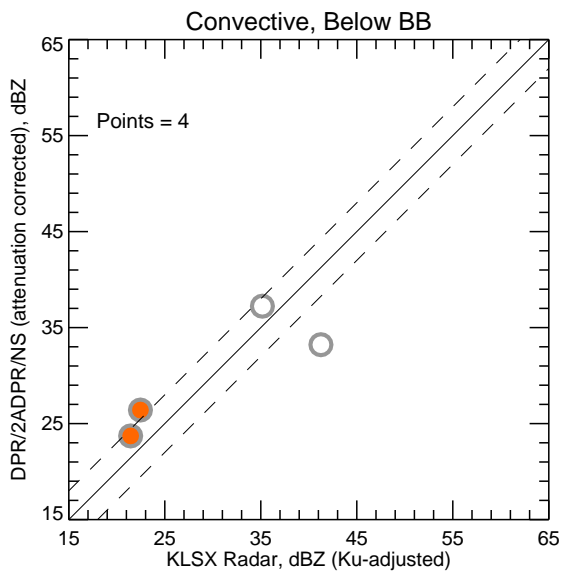
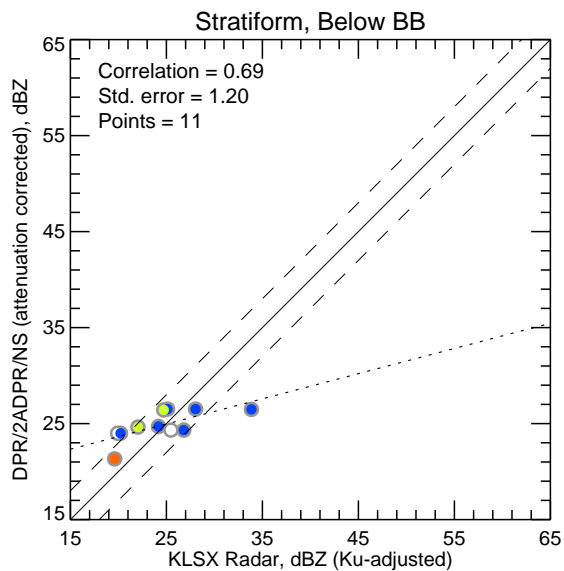
No above-threshold points at height 5.000

No above-threshold points at height 6.000

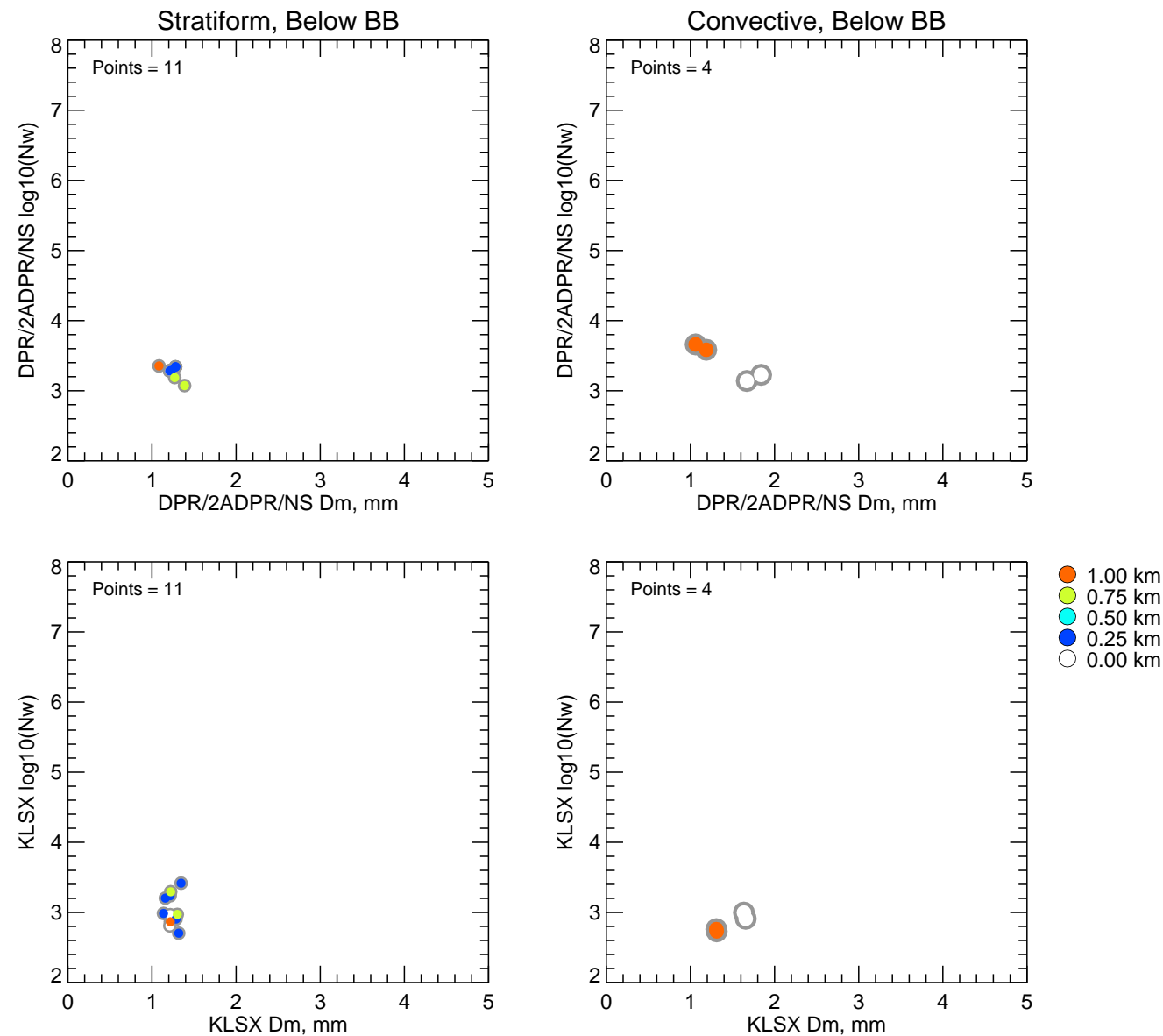
Mean Normalized Intercept Parameter (  $\log_{10}(\text{Nw})$  ) Statistics grouped by proximity to Bright Band:

Surface	Any Rain Type		Stratiform		Convective		Dataset Statistics		
type	DPR-GR	NumPts	DPR-GR	NumPts	DPR-GR	NumPts	AvgDist	DPRMaxNw	GRMaxNw
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Below	0.357	15	0.199	11	0.696	4	34.924	3.660	3.417

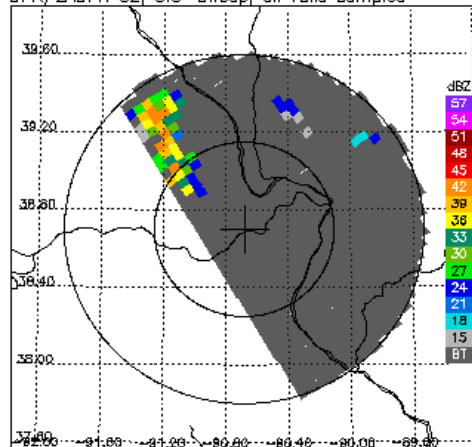
# KLSX Ku-adjusted DSD vs. DPR 2ADPR/NS/V05A >=50% bins above threshold



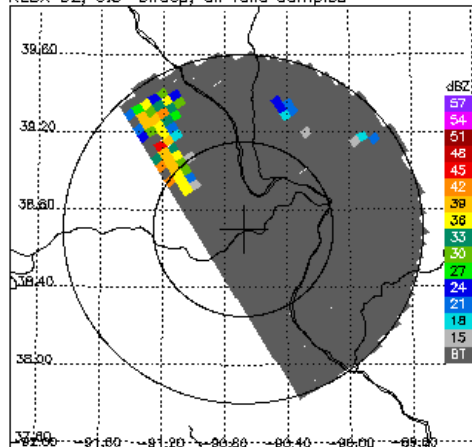
Dm vs. log10(Nw) for DPR 2ADPR/NS/V05A and KLSX >=50% bins above threshold



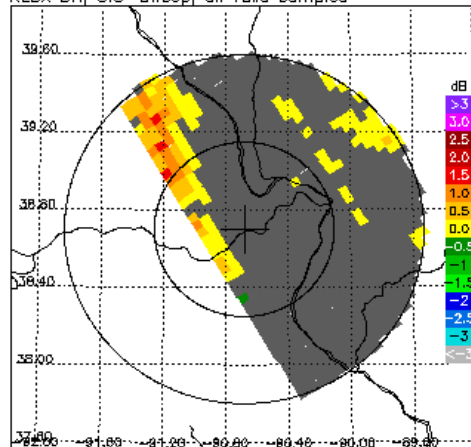
DPR/2ADPR CZ, 0.5° sweep, all valid samples



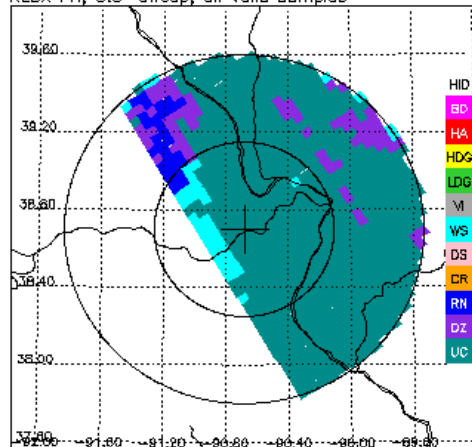
KLSX CZ, 0.5° sweep, all valid samples



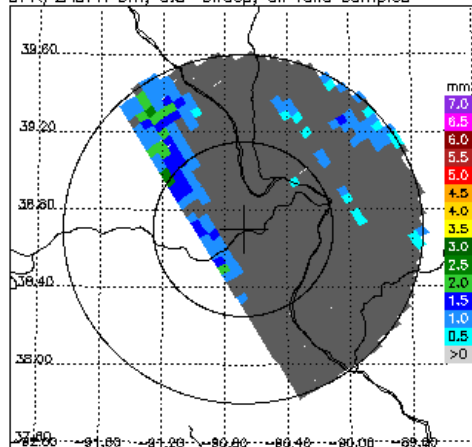
KLSX DR, 0.5° sweep, all valid samples



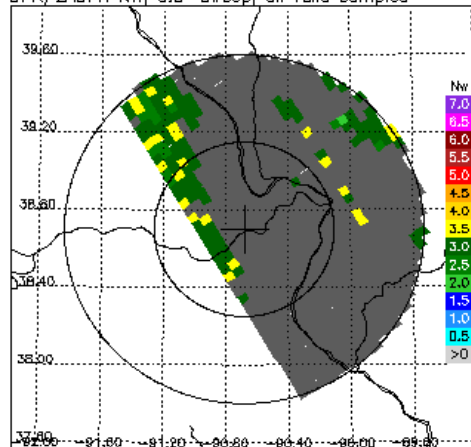
KLSX FH, 0.5° sweep, all valid samples



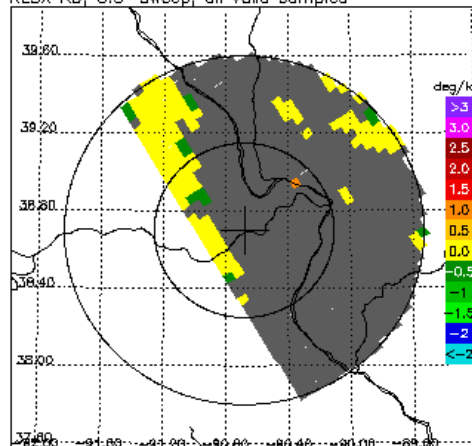
DPR/2ADPR Dm, 0.5° sweep, all valid samples



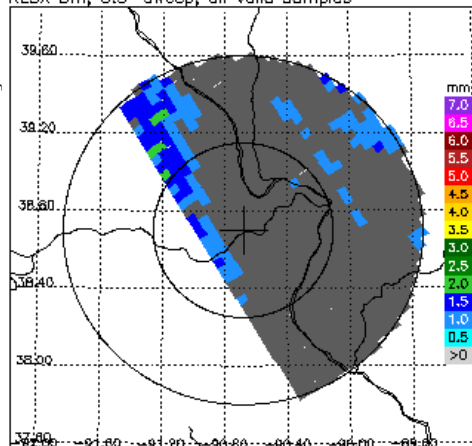
DPR/2ADPR NW, 0.5° sweep, all valid samples



KLSX KD, 0.5° sweep, all valid samples



KLSX Dm, 0.5° sweep, all valid samples



KLSX NW, 0.5° sweep, all valid samples

