

KMKX Ku-adjusted DSD vs. DPR 2ADPR/NS/V05A $\geq 50\%$ bins above threshold
 Orbit: 22620 -- GR Start Time: 2018-02-20 16:29:57

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

Orbit: 22620 Version: V05A Swath Type: NS

DPR time = 2018-02-20 16:29:18 GR start time = 2018-02-20 16:29:57

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

Thresholding by reflectivity cutoffs only.

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	0.752	60	0.248	27	1.170	33	88.453	43.813	42.701	@ BB
2.0	-1.396	96	-1.930	46	-0.908	50	87.939	42.752	42.117	@ BB
3.0	-1.870	90	-3.295	37	-0.753	52	90.037	39.933	39.370	
4.0	0.849	61	-1.286	19	2.143	40	90.147	39.225	36.475	
5.0	1.386	28	-1.599	10	3.030	18	90.459	37.588	30.692	
6.0	1.606	6	0.074	3	3.164	3	96.161	25.954	24.254	

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	2.320	1	-99.999	0	2.320	1	47.761	36.704	34.384	

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	0.509	1	-99.999	0	0.509	1	47.761	1.923	1.414 @ BB

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	0.509	1	-99.999	0	0.509	1	47.761	1.923	1.414

GR NW field is being directly compared to DPR Nw.

Mean Normalized Intercept Parameter (log10(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	-0.269	1	-99.999	0	-0.269	1	47.761	3.008	3.277 @ BB

No above-threshold points at height 2.000

No above-threshold points at height 3.000

No above-threshold points at height 4.000

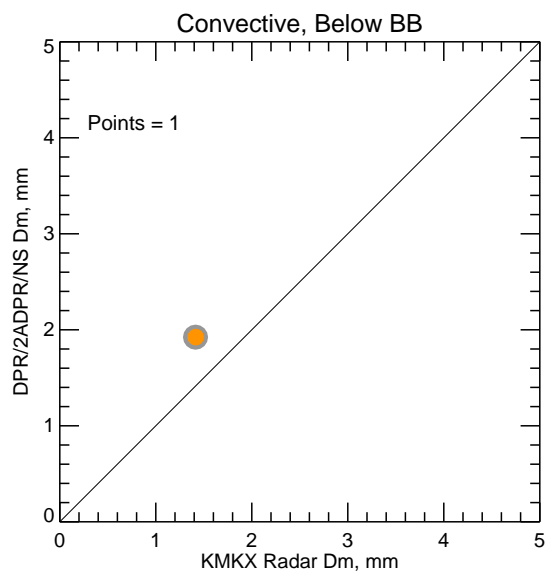
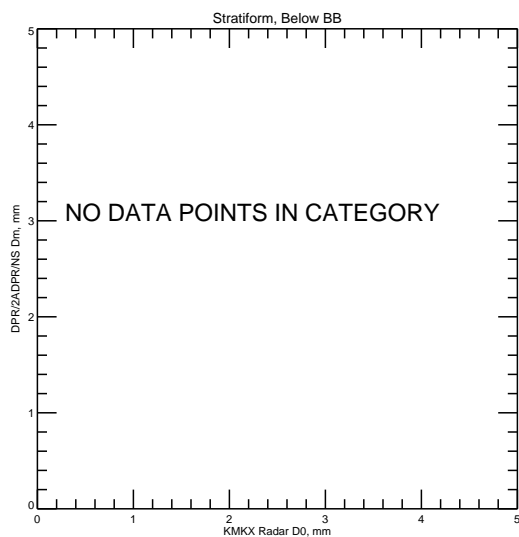
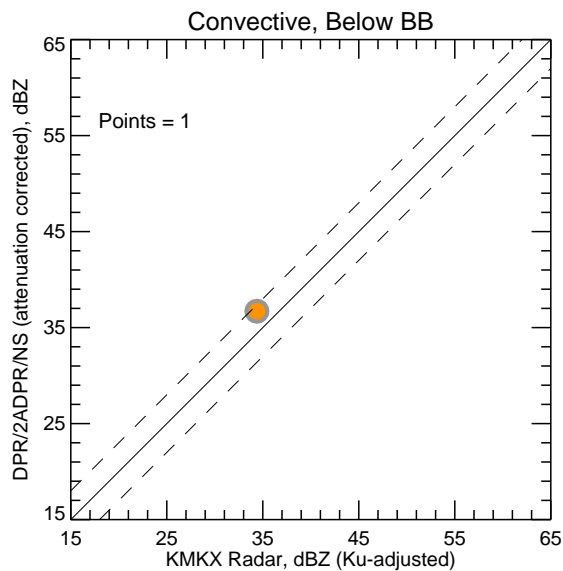
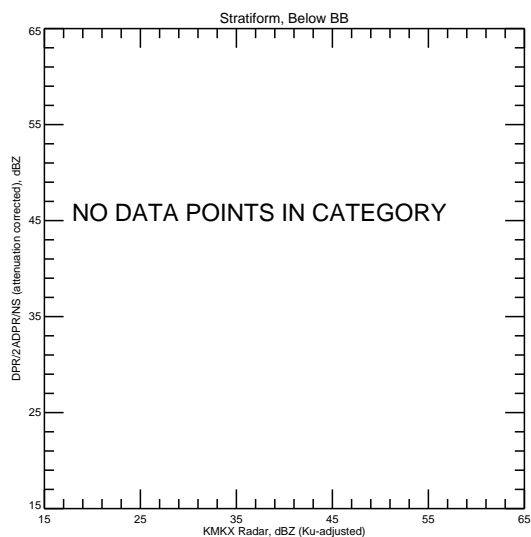
No above-threshold points at height 5.000

No above-threshold points at height 6.000

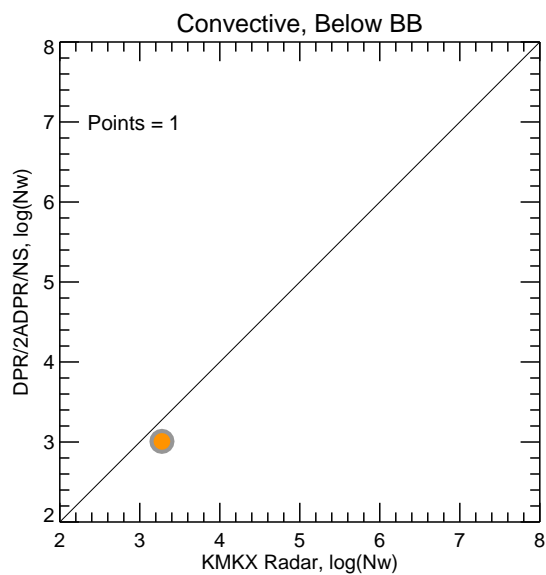
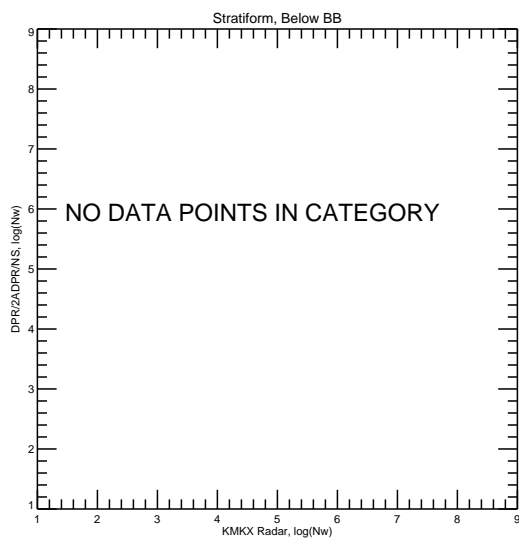
Mean Normalized Intercept Parameter (log10(Nw)) Statistics grouped by proximity to Bright Band:

Surface	Any Rain Type		Stratiform		Convective		Dataset Statistics		
type	DPR-GR	NumPts	DPR-GR	NumPts	DPR-GR	NumPts	AvgDist	DPRMaxNw	GRMaxNw
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Below	-0.269	1	-99.999	0	-0.269	1	47.761	3.008	3.277

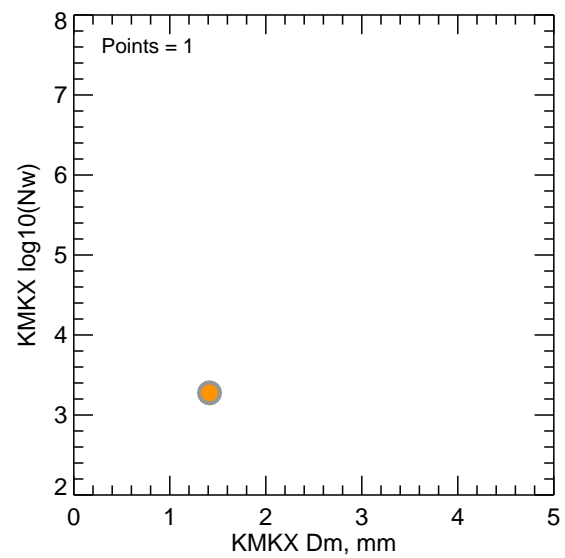
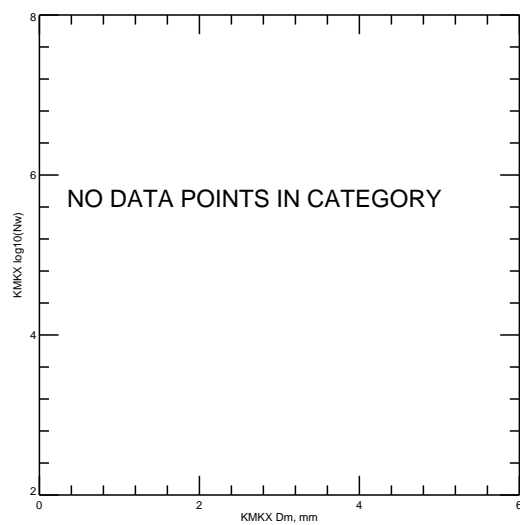
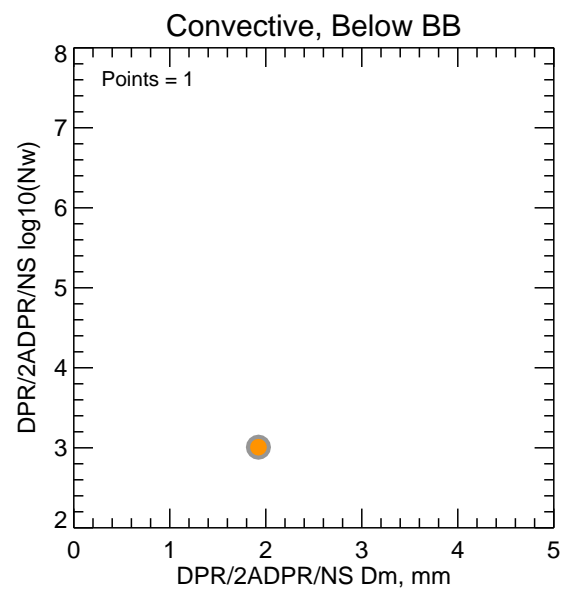
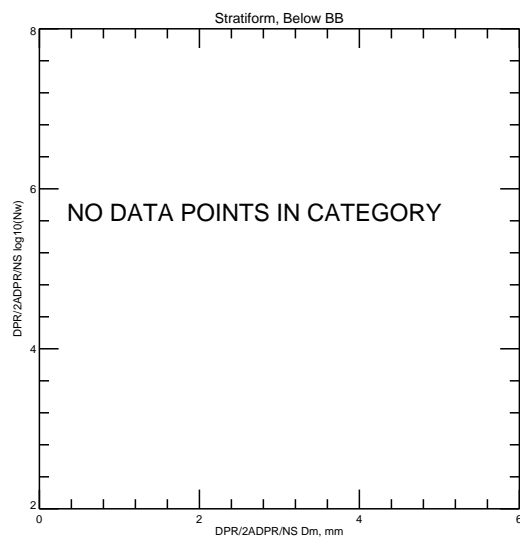
KMKX Ku-adjusted DSD vs. DPR 2ADPR/NS/V05A >=50% bins above threshold



● 0.75 km

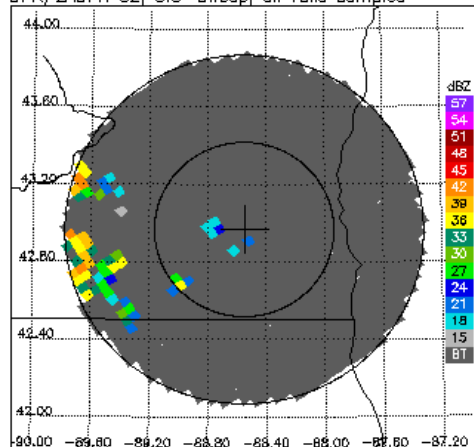


Dm vs. $\log_{10}(N_w)$ for DPR 2ADPR/NS/V05A and KMKX $\geq 50\%$ bins above threshold

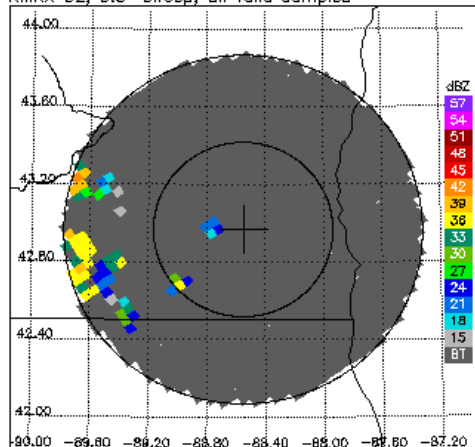


0.75 km

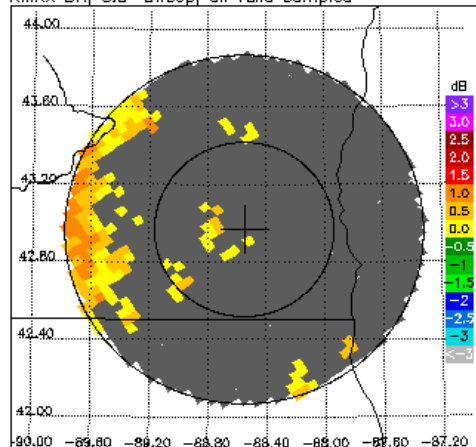
DPR/2ADPR CZ, 0.5° sweep, all valid samples



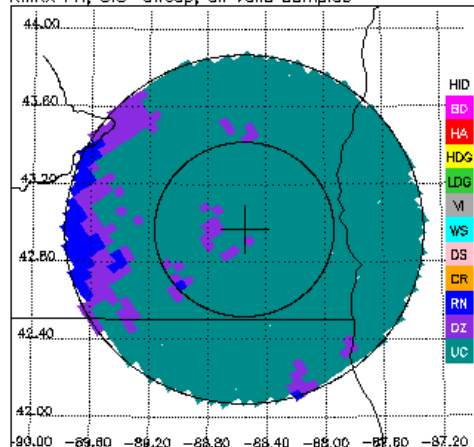
KMKX CZ, 0.5° sweep, all valid samples



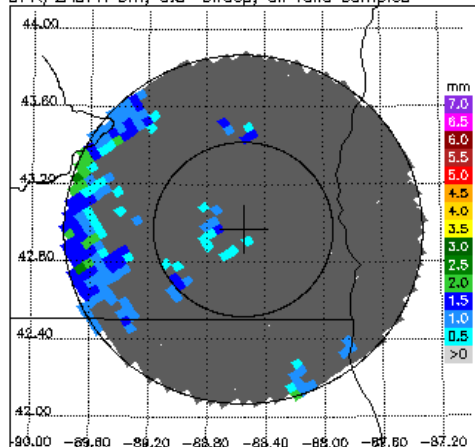
KMKX DR, 0.5° sweep, all valid samples



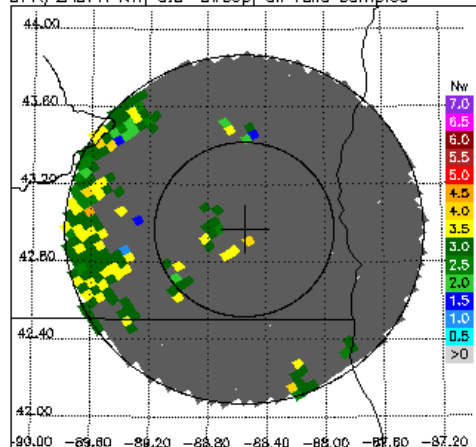
KMKX FH, 0.5° sweep, all valid samples



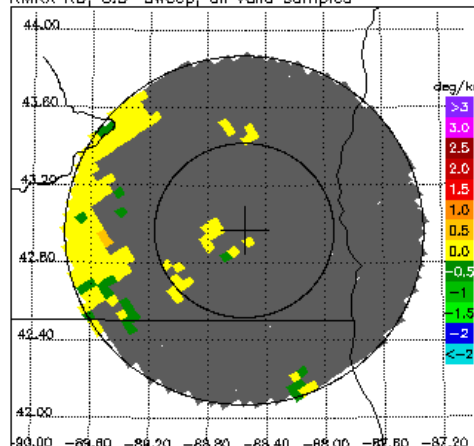
DPR/2ADPR Dm, 0.5° sweep, all valid samples



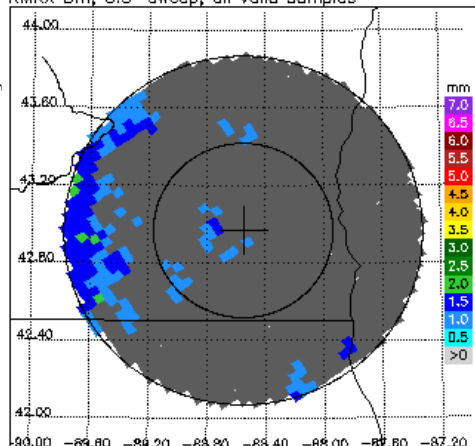
DPR/2ADPR NW, 0.5° sweep, all valid samples



KMKX KD, 0.5° sweep, all valid samples



KMKX Dm, 0.5° sweep, all valid samples



KMKX NW, 0.5° sweep, all valid samples

