

KFSD Ku-adjusted DSD vs. DPR 2ADPR/NS/V05A $\geq 50\%$ bins above threshold

Orbit: 22815 -- GR Start Time: 2018-03-05 04:58:11

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

Orbit: 22815 Version: V05A Swath Type: NS

DPR time = 2018-03-05 04:56:19 GR start time = 2018-03-05 04:58:11

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. Layer	Any Rain Type		Stratiform		Convective		Dataset Statistics		
	DPR-GR	NumPts	DPR-GR	NumPts	DPR-GR	NumPts	AvgDist	DPRMaxZ	GRMaxZ
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
1.0	0.108	2	4.287	1	-4.445	1	49.804	39.826	40.817
2.0	0.592	31	-0.377	5	0.996	24	55.363	48.630	52.393
3.0	1.320	43	0.977	5	1.598	31	59.460	47.335	46.458 @ BB
4.0	0.153	71	0.273	9	1.100	31	61.951	45.212	47.747 @ BB
5.0	1.704	80	0.690	7	1.828	32	62.134	45.320	42.742
6.0	1.335	51	0.786	5	1.517	33	55.624	42.915	39.526
7.0	0.729	34	0.186	4	0.821	24	55.545	40.969	39.856
8.0	2.096	20	-99.999	0	1.976	17	58.295	41.784	36.564

Mean Reflectivity Statistics grouped by proximity to Bright Band:

Surface type	Any Rain Type		Stratiform		Convective		Dataset Statistics		
	DPR-GR	NumPts	DPR-GR	NumPts	DPR-GR	NumPts	AvgDist	DPRMaxZ	GRMaxZ
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Below	-0.472	21	-1.537	4	-0.254	17	55.195	48.630	52.393

GR Dm field is being directly compared to DPR Dm.

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

Vert. Layer	Any Rain Type		Stratiform		Convective		Dataset Statistics		
	DPR-GR	NumPts	DPR-GR	NumPts	DPR-GR	NumPts	AvgDist	DPRMaxDm	GRMaxDm
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
1.0	0.367	2	0.403	1	0.328	1	49.804	1.980	1.646
2.0	1.168	19	-0.040	3	1.368	16	55.763	5.000	1.583

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

No above-threshold points at height 7.000

No above-threshold points at height 8.000

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

Surface type	Any Rain Type		Stratiform		Convective		Dataset Statistics		
	DPR-GR	NumPts	DPR-GR	NumPts	DPR-GR	NumPts	AvgDist	DPRMaxDm	GRMaxDm
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Below	1.111	21	0.057	4	1.326	17	55.195	5.000	1.646

GR NW field is being directly compared to DPR Nw.

Mean Normalized Intercept Parameter (log10(Nw)) Statistics grouped by fixed height levels (km):

Vert. Layer	Any Rain Type		Stratiform		Convective		Dataset Statistics		
	DPR-GR	NumPts	DPR-GR	NumPts	DPR-GR	NumPts	AvgDist	DPRMaxNw	GRMaxNw
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
1.0	-0.310	2	-0.013	1	-0.633	1	49.804	3.237	3.535
2.0	-1.219	19	0.083	3	-1.435	16	55.763	3.286	4.482

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

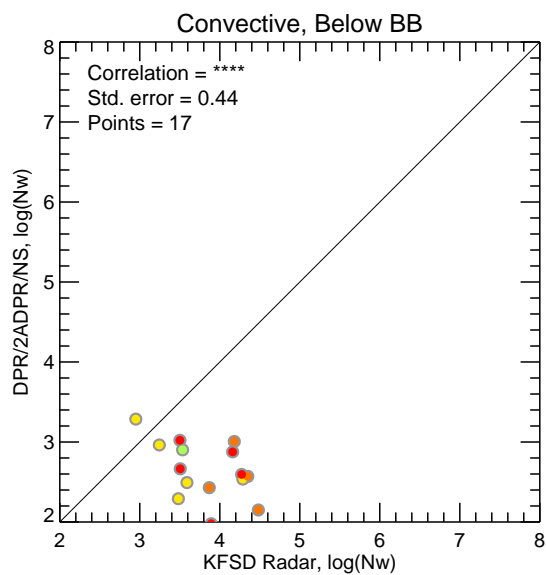
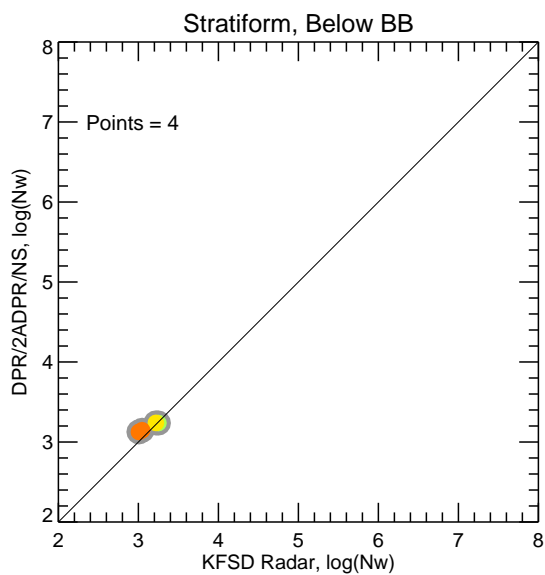
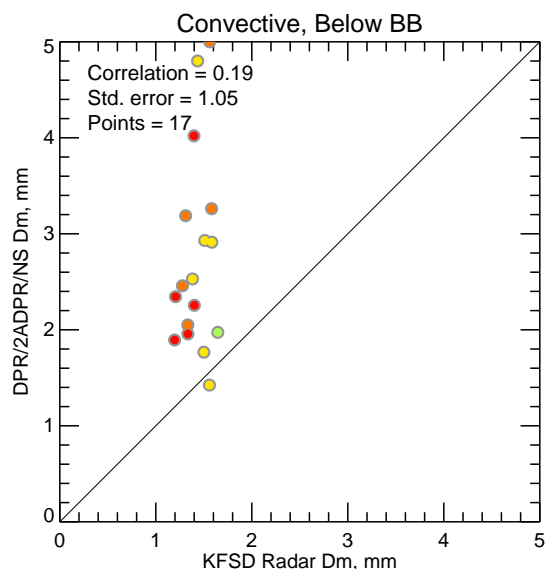
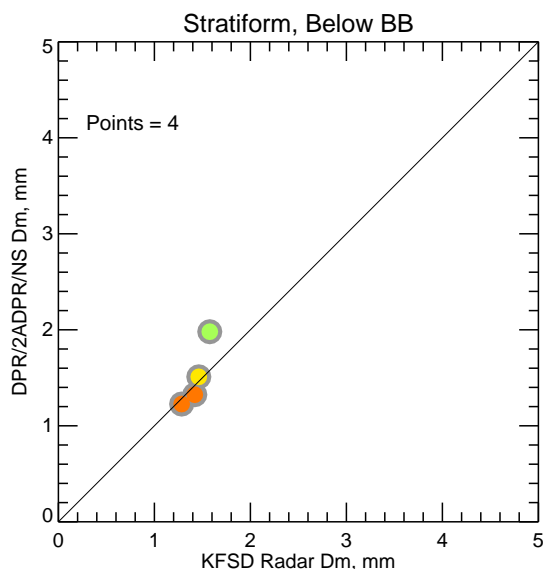
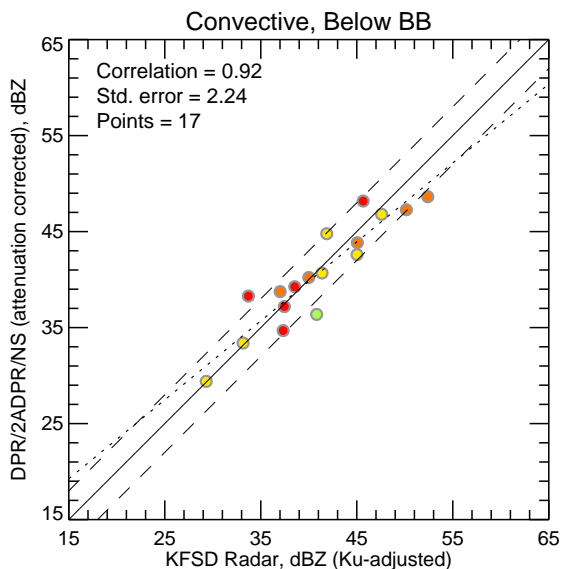
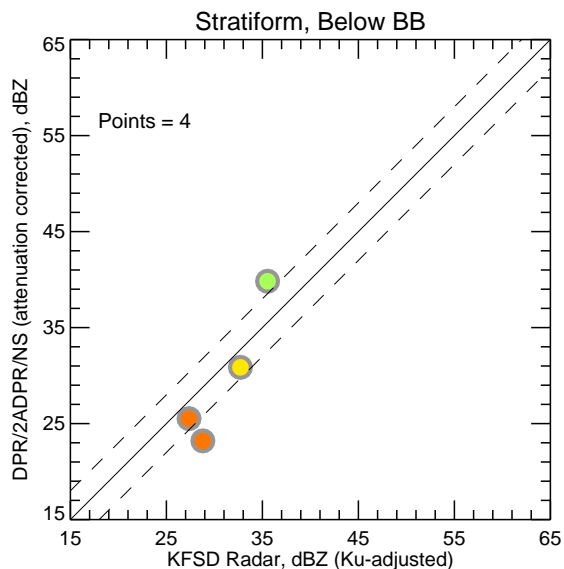
No above-threshold points at height 7.000

No above-threshold points at height 8.000

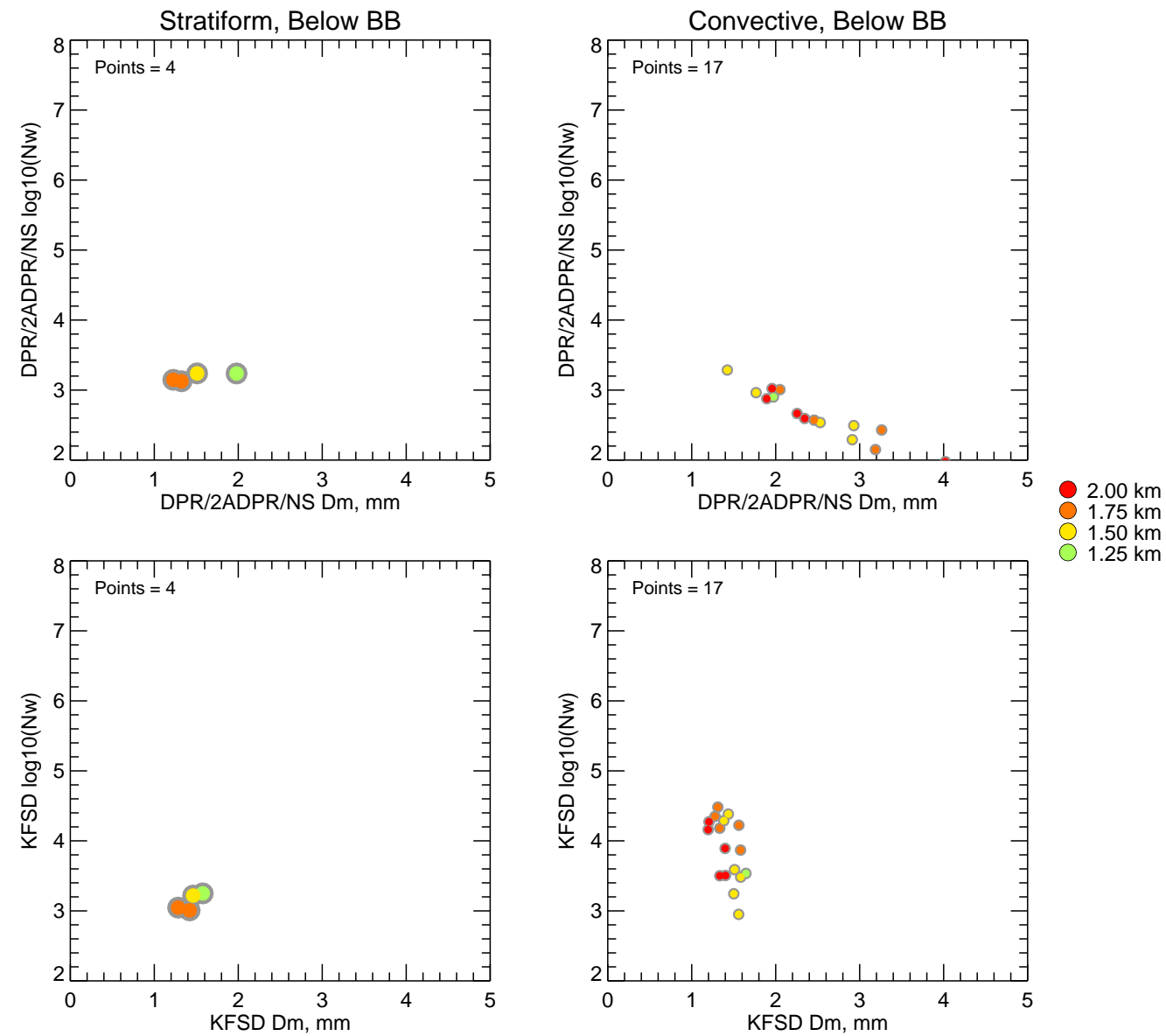
Mean Normalized Intercept Parameter (log10(Nw)) Statistics grouped by proximity to Bright Band:

Surface type	Any Rain Type		Stratiform		Convective		Dataset Statistics		
	DPR-GR	NumPts	DPR-GR	NumPts	DPR-GR	NumPts	AvgDist	DPRMaxNw	GRMaxNw
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Below	-1.154	21	0.062	4	-1.402	17	55.195	3.286	4.482

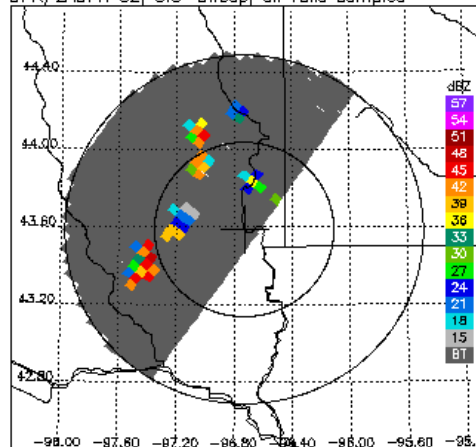
KFSD Ku-adjusted DSD vs. DPR 2ADPR/NS/V05A >=50% bins above threshold



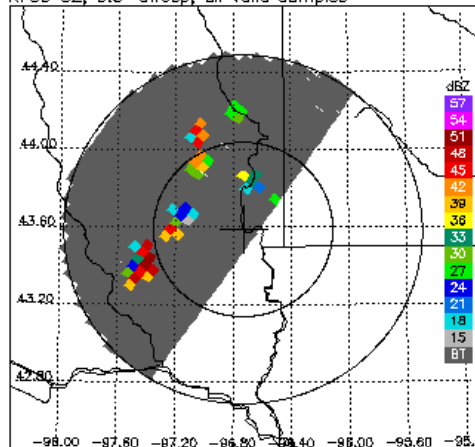
Dm vs. $\log_{10}(N_w)$ for DPR 2ADPR/NS/V05A and KFSD $\geq 50\%$ bins above threshold



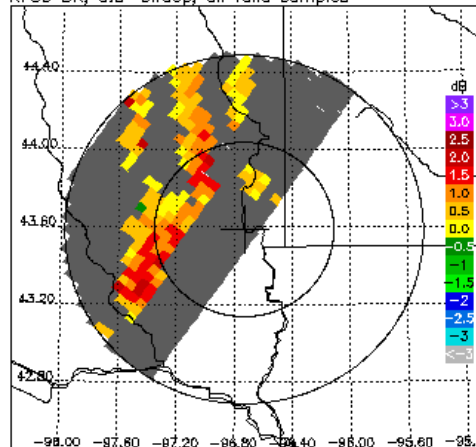
DPR/2ADPR CZ, 0.5° sweep, all valid samples



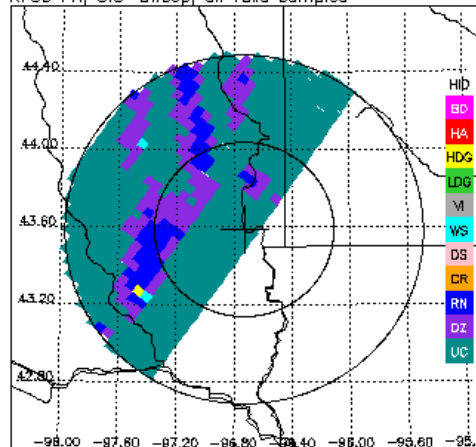
KFSD CZ, 0.5° sweep, all valid samples



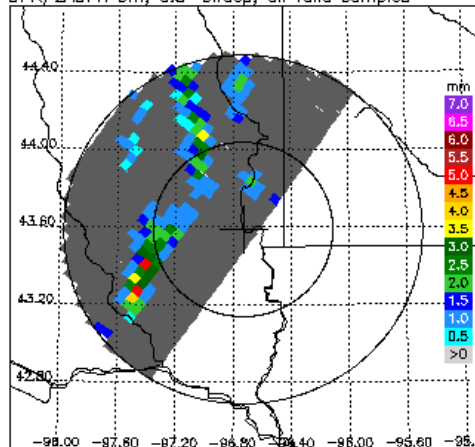
KFSD DR, 0.5° sweep, all valid samples



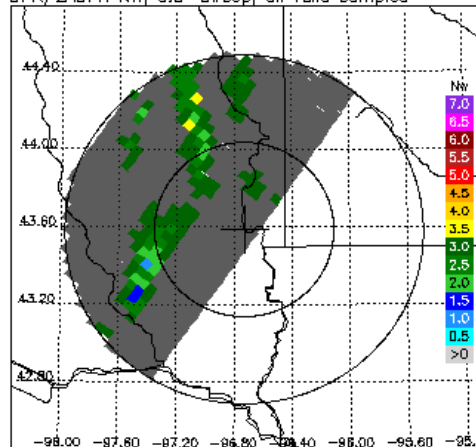
KFSD FH, 0.5° sweep, all valid samples



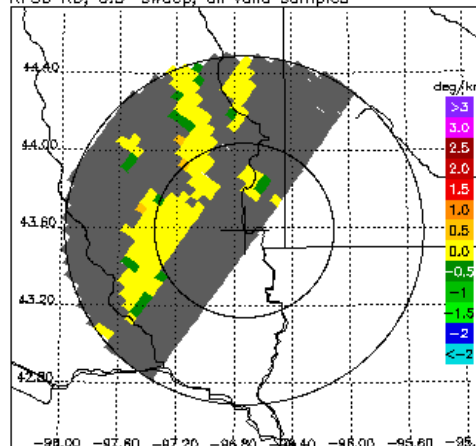
DPR/2ADPR Dm, 0.5° sweep, all valid samples



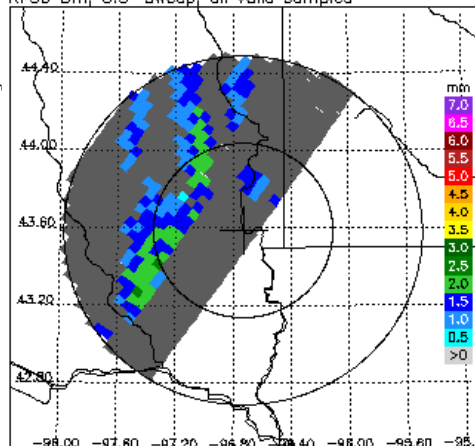
DPR/2ADPR NW, 0.5° sweep, all valid samples



KFSD KD, 0.5° sweep, all valid samples



KFSD Dm, 0.5° sweep, all valid samples



KFSD NW, 0.5° sweep, all valid samples

