

KHGX Ku-adjusted DSD vs. DPR 2ADPR/NS/V05A $\geq 50\%$ bins above threshold
 Orbit: 22630 -- GR Start Time: 2018-02-21 07:31:41

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

Orbit: 22630 Version: V05A Swath Type: NS

DPR time = 2018-02-21 07:29:30 GR start time = 2018-02-21 07:31:41

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	-2.433	40	-4.710	11	-1.490	29	80.968	45.985	46.330	
2.0	-4.109	29	-5.722	9	-3.344	20	67.688	45.707	45.953	@ BB
3.0	-4.042	29	-5.675	8	-3.531	21	76.792	45.291	44.352	@ BB
4.0	-3.047	24	-6.523	5	-2.156	19	77.612	42.055	42.852	
5.0	-3.084	10	-1.834	2	-4.059	7	76.938	32.213	35.839	
6.0	-1.636	11	-2.559	2	-0.884	8	69.422	34.086	31.020	

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	
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Below	-2.544	44	-4.512	13	-1.672	31	78.809	45.985	46.330	

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	0.226	40	0.224	11	0.227	29	80.968	2.760	2.175
2.0	0.253	4	0.376	2	0.126	2	57.219	2.286	2.156 @ BB

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	0.228	44	0.241	13	0.223	31	78.809	2.760	2.175

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	-0.168	40	-0.415	11	-0.066	29	80.968	5.551	3.658
2.0	-0.369	4	-0.500	2	-0.233	2	57.219	3.164	3.118 @ BB

No above-threshold points at height 3.000

No above-threshold points at height 4.000

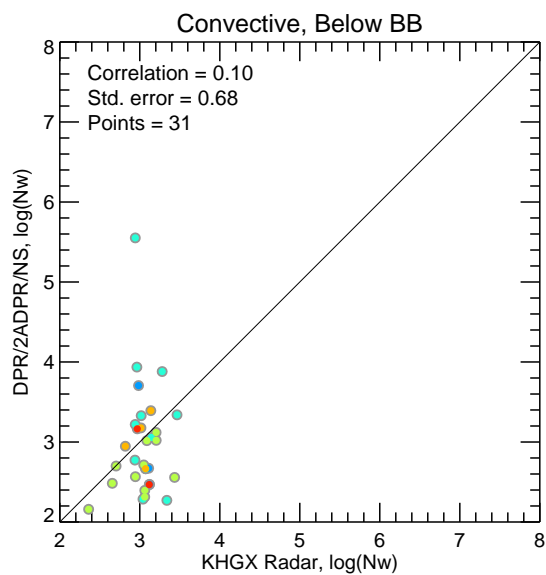
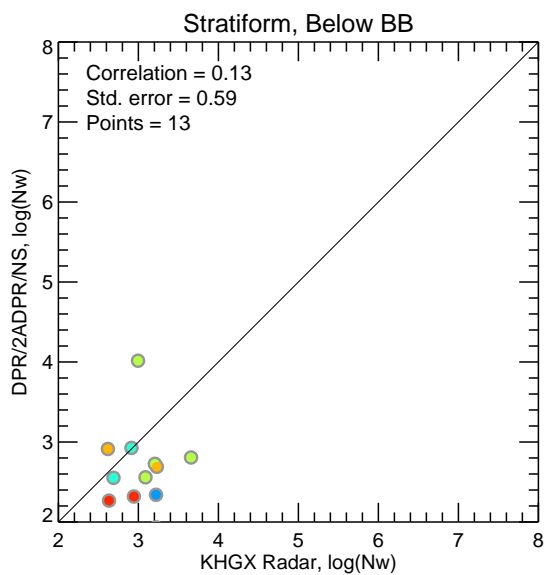
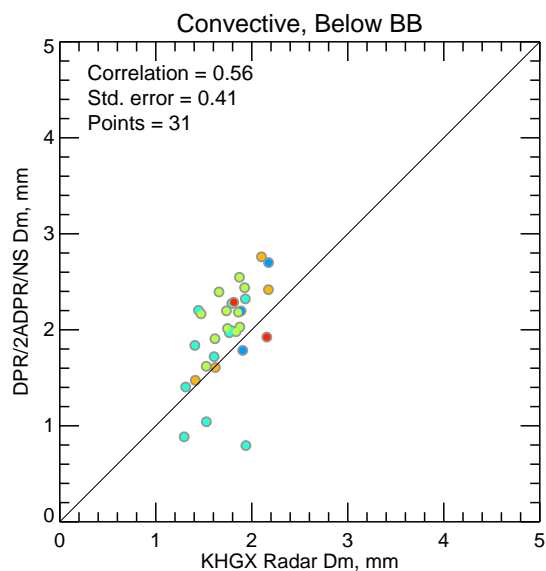
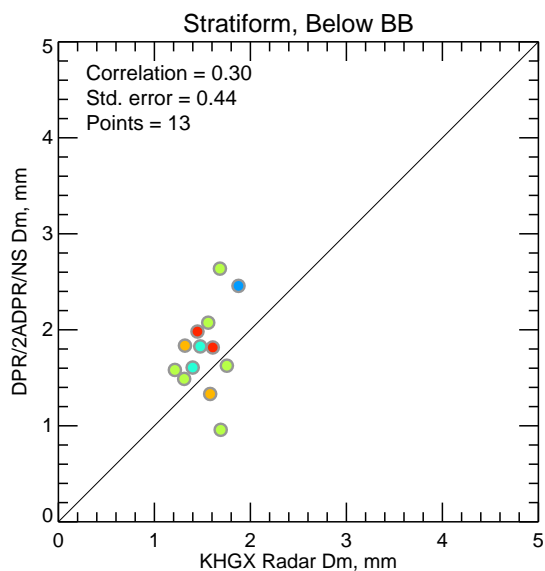
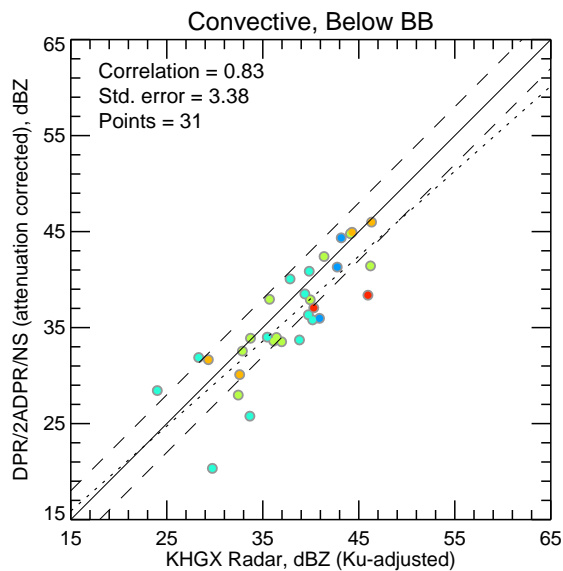
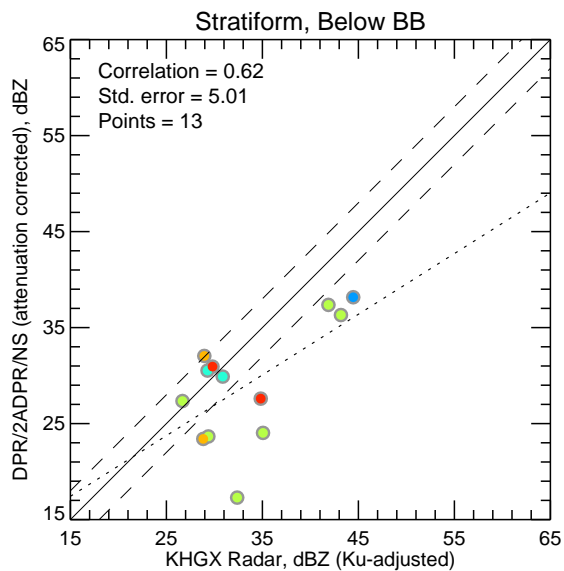
No above-threshold points at height 5.000

No above-threshold points at height 6.000

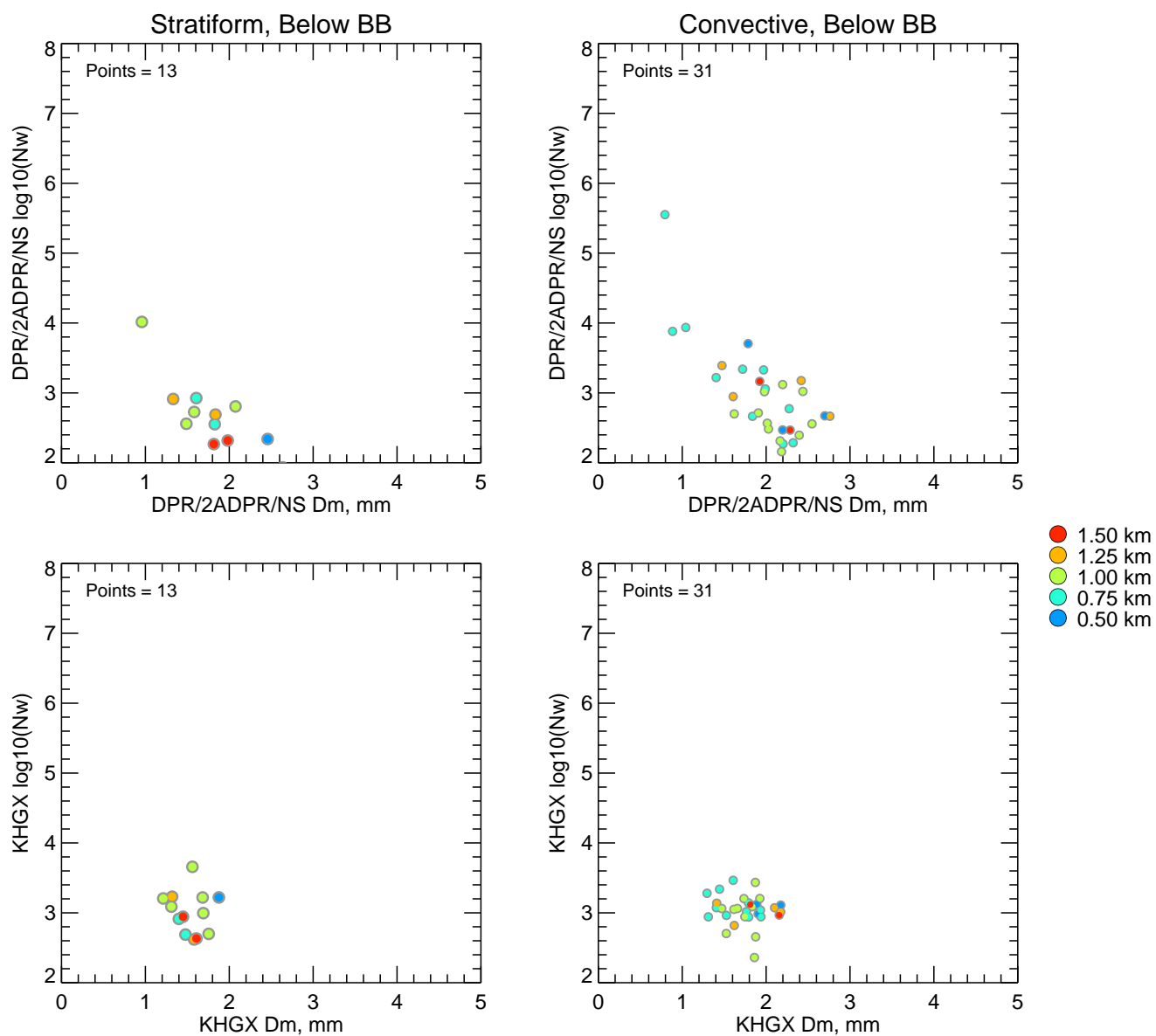
Mean Normalized Intercept Parameter (log10(Nw)) Statistics grouped by proximity to Bright Band:

Surface	Any Rain Type		Stratiform		Convective		Dataset Statistics		
type	DPR-GR	NumPts	DPR-GR	NumPts	DPR-GR	NumPts	AvgDist	DPRMaxNw	GRMaxNw
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Below	-0.182	44	-0.424	13	-0.074	31	78.809	5.551	3.658

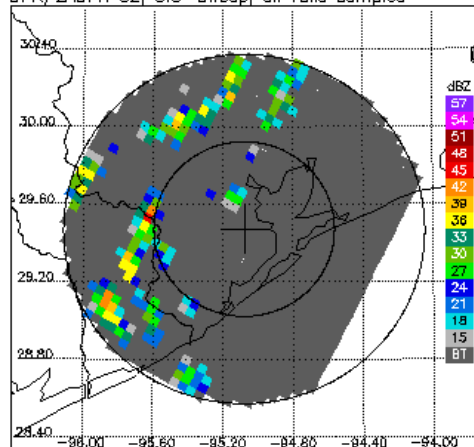
KHGX Ku-adjusted DSD vs. DPR 2ADPR/NS/V05A >=50% bins above threshold



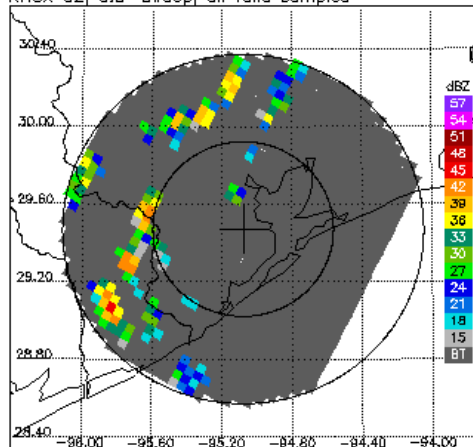
Dm vs. $\log_{10}(N_w)$ for DPR 2ADPR/NS/V05A and KHGX $\geq 50\%$ bins above threshold



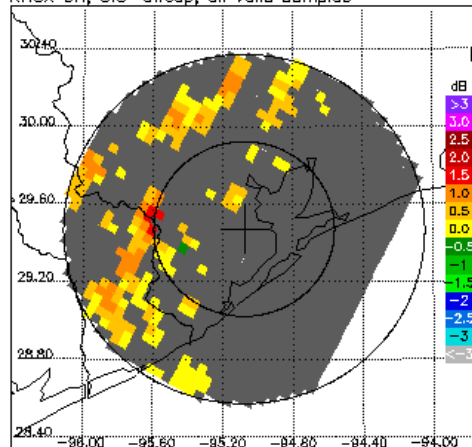
DPR/2ADPR CZ, 0.5° sweep, all valid samples



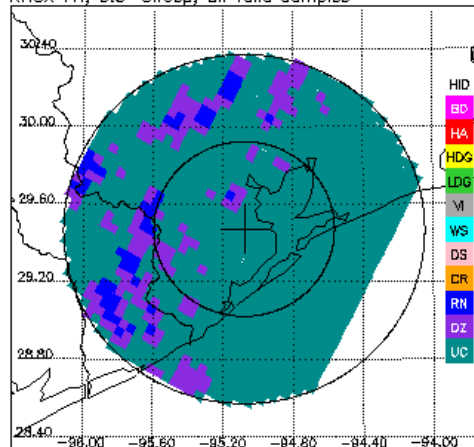
KHGX CZ, 0.5° sweep, all valid samples



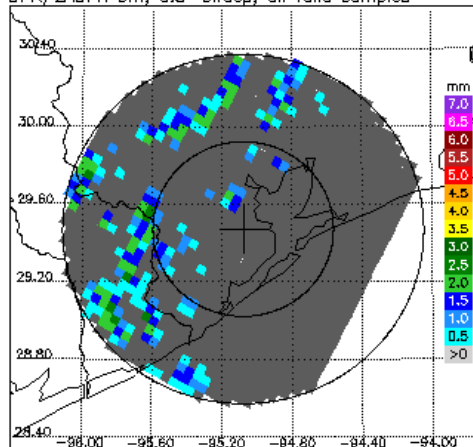
KHGX DR, 0.5° sweep, all valid samples



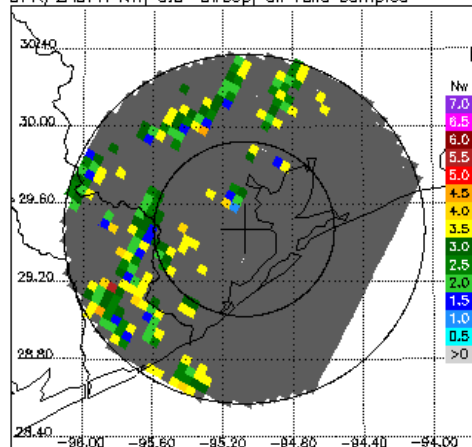
KHGX FH, 0.5° sweep, all valid samples



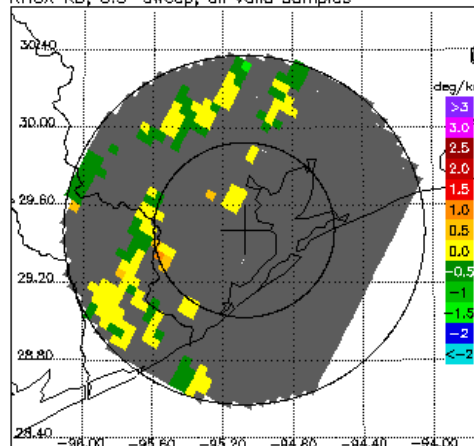
DPR/2ADPR Dm, 0.5° sweep, all valid samples



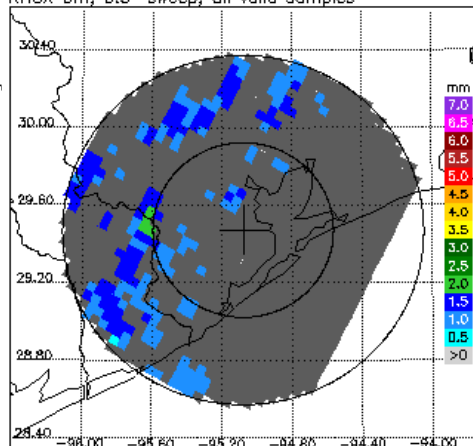
DPR/2ADPR NW, 0.5° sweep, all valid samples



KHGX KD, 0.5° sweep, all valid samples



KHGX Dm, 0.5° sweep, all valid samples



KHGX NW, 0.5° sweep, all valid samples

