

KSHV Ku-adjusted DSD vs. DPR 2ADPR/NS/V05A  $\geq 50\%$  bins above threshold  
 Orbit: 22636 -- GR Start Time: 2018-02-21 17:14:42

DPR 2ADPR-GR Reflectivity difference statistics (dBZ) - GR Site: KSHV  
Orbit: 22636 Version: V05A Swath Type: NS  
DPR time = 2018-02-21 17:13:34 GR start time = 2018-02-21 17:14:42  
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. Layer	Any Rain Type		Stratiform		Convective		Dataset Statistics		
	DPR-GR	NumPts	DPR-GR	NumPts	DPR-GR	NumPts	AvgDist	DPRMaxZ	GRMaxZ
1.0	2.878	82	3.216	48	2.379	34	86.273	44.227	41.211
2.0	3.648	479	3.623	301	3.687	178	74.568	46.614	41.365
3.0	2.615	413	2.375	248	2.988	165	74.866	46.822	43.025 @ BB
4.0	3.555	285	3.473	174	3.786	110	73.717	44.337	39.998 @ BB
5.0	4.648	192	4.513	118	4.876	74	73.912	38.031	33.577
6.0	3.648	109	3.724	65	3.533	44	73.580	30.187	24.535
7.0	2.959	40	2.816	28	3.381	12	67.335	24.023	20.388
8.0	3.582	4	5.756	1	2.911	3	56.136	21.426	18.058

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
Below	2.890	323	3.095	203	2.542	120	78.622	44.476	41.365

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
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1.0	0.337	82	0.274	48	0.430	34	86.273	2.608	1.787
2.0	0.302	241	0.232	155	0.427	86	76.019	3.262	1.818

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	0.311	323	0.243	203	0.428	120	78.622	3.262	1.818

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
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1.0	-0.337	82	-0.229	48	-0.497	34	86.273	4.431	4.298
2.0	-0.254	241	-0.152	155	-0.437	86	76.019	4.409	4.379

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

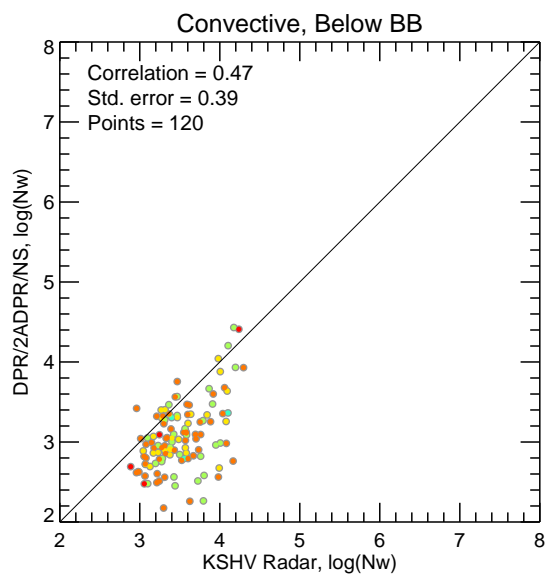
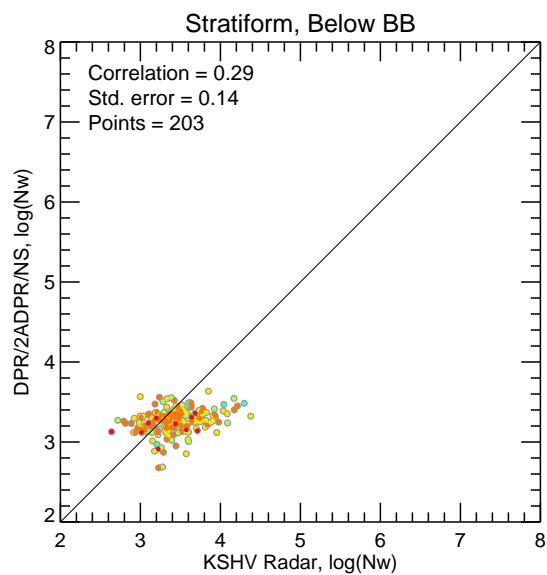
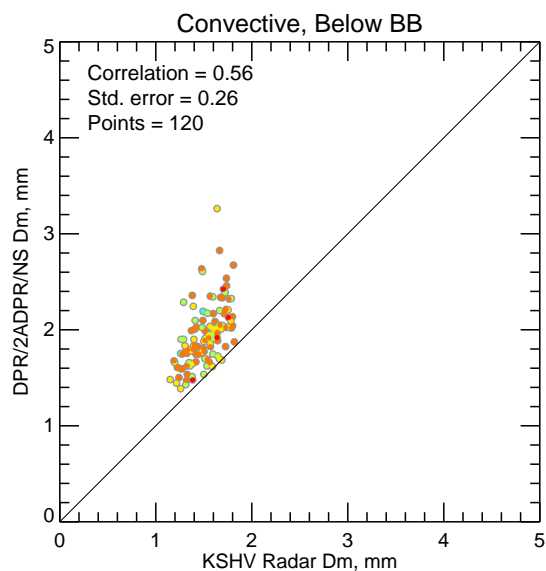
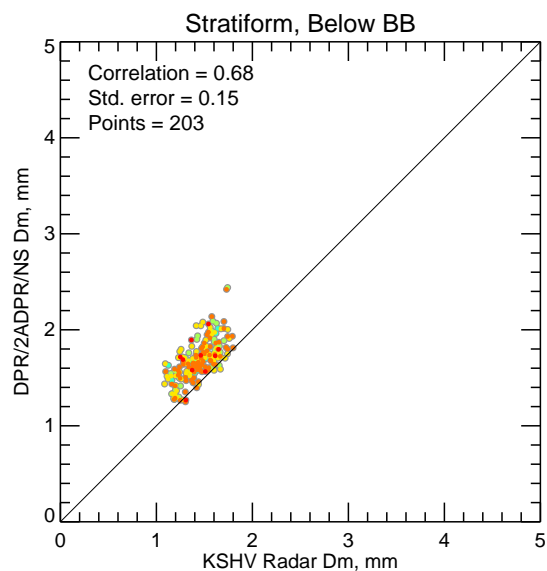
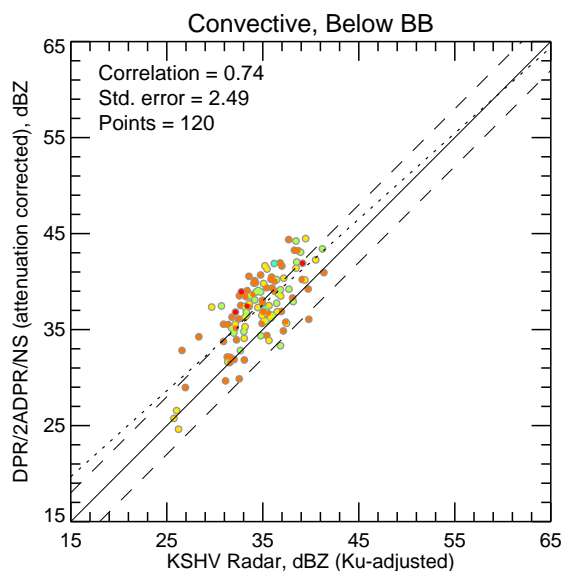
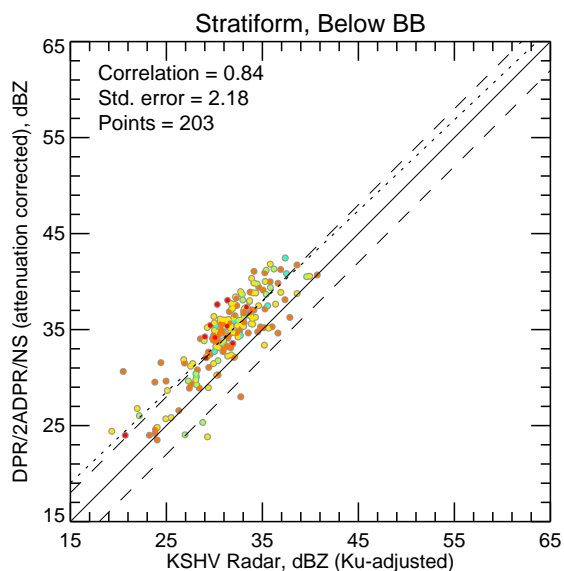
No above-threshold points at height 7.000

No above-threshold points at height 8.000

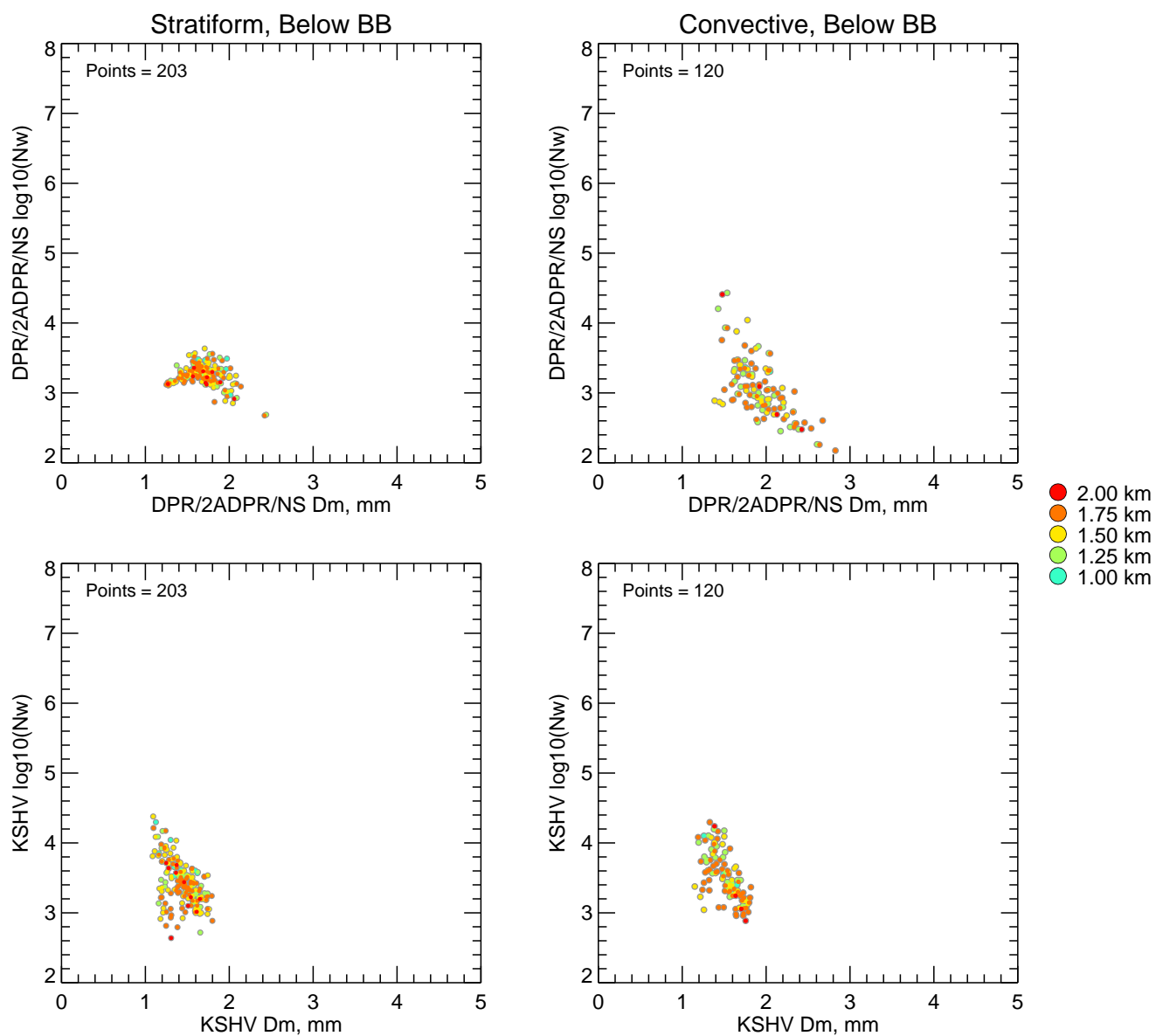
Mean Normalized Intercept Parameter ( log10(Nw) ) Statistics grouped by proximity to Bright Band:

Surface type	Any Rain Type		Stratiform		Convective		Dataset Statistics		
	DPR-GR	NumPts	DPR-GR	NumPts	DPR-GR	NumPts	AvgDist	DPRMaxNw	GRMaxNw
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Below	-0.276	323	-0.171	203	-0.454	120	78.622	4.431	4.379

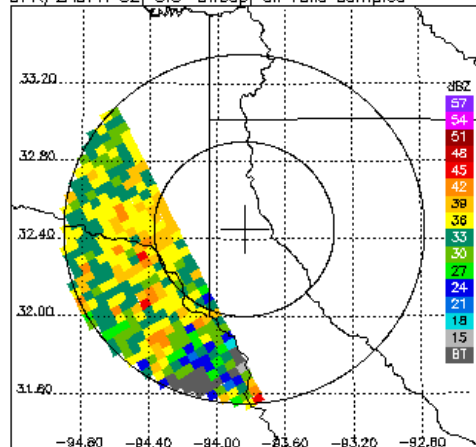
# KSHV Ku-adjusted DSD vs. DPR 2ADPR/NS/V05A >=50% bins above threshold



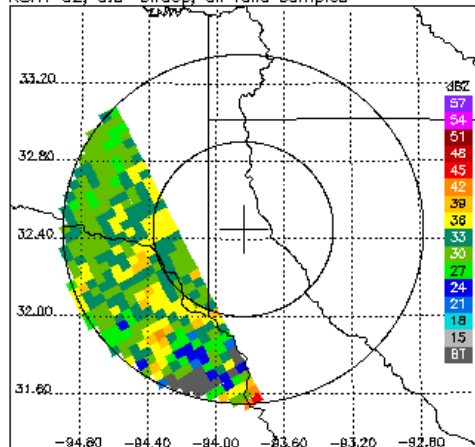
Dm vs.  $\log_{10}(N_w)$  for DPR 2ADPR/NS/V05A and KSHV  $\geq 50\%$  bins above threshold



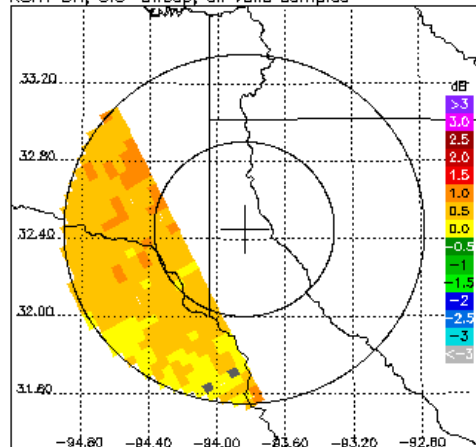
DPR/2ADPR CZ, 0.5° sweep, all valid samples



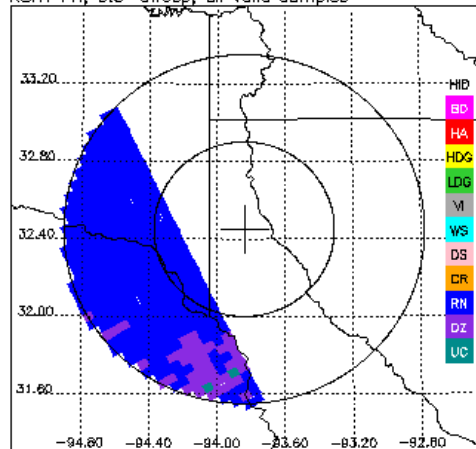
KSHV CZ, 0.5° sweep, all valid samples



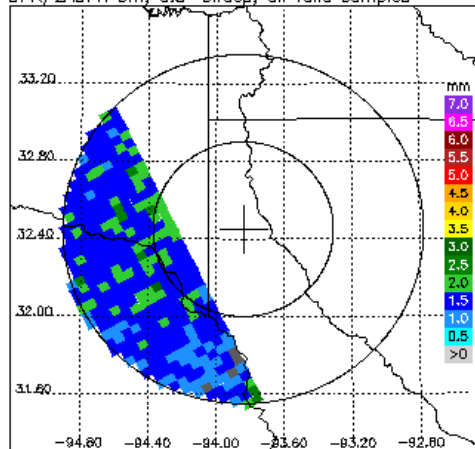
KSHV DR, 0.5° sweep, all valid samples



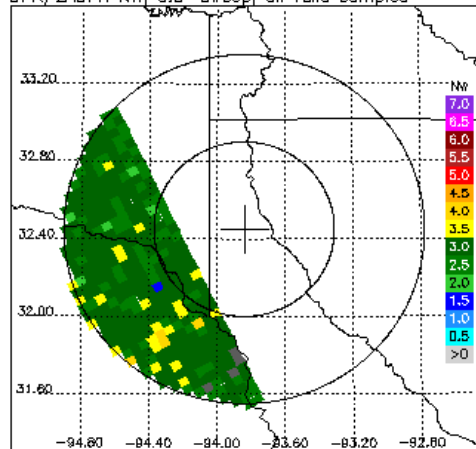
KSHV FH, 0.5° sweep, all valid samples



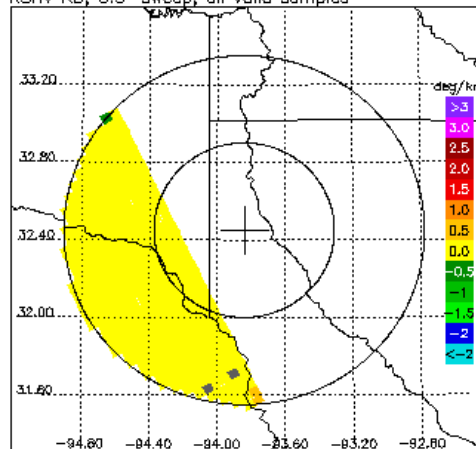
DPR/2ADPR Dm, 0.5° sweep, all valid samples



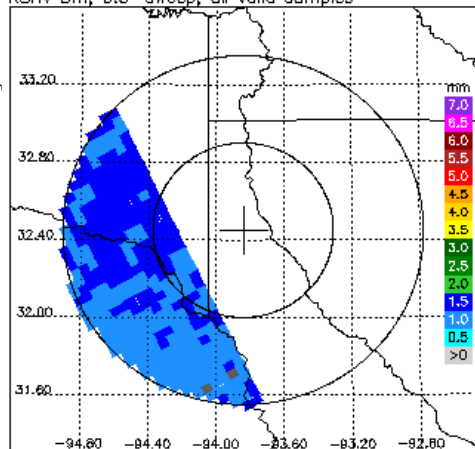
DPR/2ADPR NW, 0.5° sweep, all valid samples



KSHV KD, 0.5° sweep, all valid samples



KSHV Dm, 0.5° sweep, all valid samples



KSHV NW, 0.5° sweep, all valid samples

