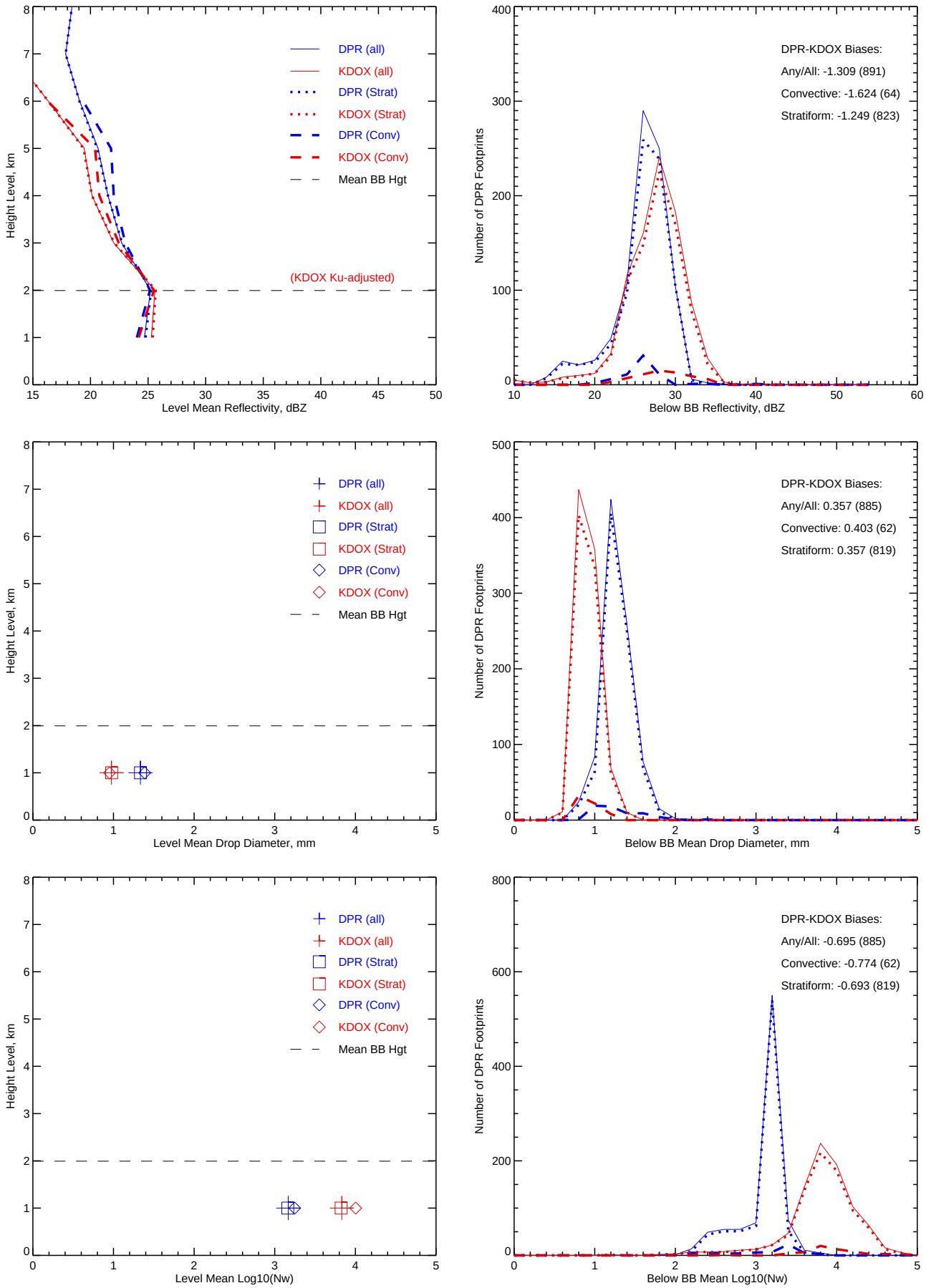


KDOX Ku-adjusted DSD vs. DPR 2ADPR/NS/V05A -- All non-missing pairs

Orbit: 5775 -- GR Start Time: 2015-03-05 20:32:17

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

Orbit: 5775 Version: V05A Swath Type: NS

DPR time = 2015-03-05 20:35:14 GR start time = 2015-03-05 20:32:17

Required percent of above-threshold DPR and GR bins in matched volumes >= 0%

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	-0.603	1232	-0.618	1137	-0.165	89	53.817	40.890	36.840	@ BB
2.0	-0.387	858	-0.398	804	-0.347	49	48.756	33.703	37.975	@ BB
3.0	0.685	842	0.674	792	0.570	43	60.154	30.407	33.465	
4.0	1.388	600	1.391	560	1.254	37	61.724	31.850	29.397	
5.0	1.203	413	1.191	386	1.384	27	64.400	28.099	27.265	
6.0	2.724	261	2.697	241	3.087	20	68.762	25.135	24.310	
7.0	4.701	28	4.701	28	-99.999	0	69.696	21.751	18.564	
8.0	6.361	3	6.361	3	-99.999	0	78.340	19.427	13.406	

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	-1.309	891	-1.249	823	-1.624	64	36.210	40.890	36.840

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	0.359	562	0.357	520	0.435	38	42.371	2.600	1.481	@ 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
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	Any Rain Type		Stratiform		Convective		Dataset Statistics		
type	DPR-GR	NumPts	DPR-GR	NumPts	DPR-GR	NumPts	AvgDist	DPRMaxDm	GRMaxDm
Below	0.357	885	0.357	819	0.403	62	36.241	2.600	1.504

GR N2 field is being directly compared to DPR Nw.

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

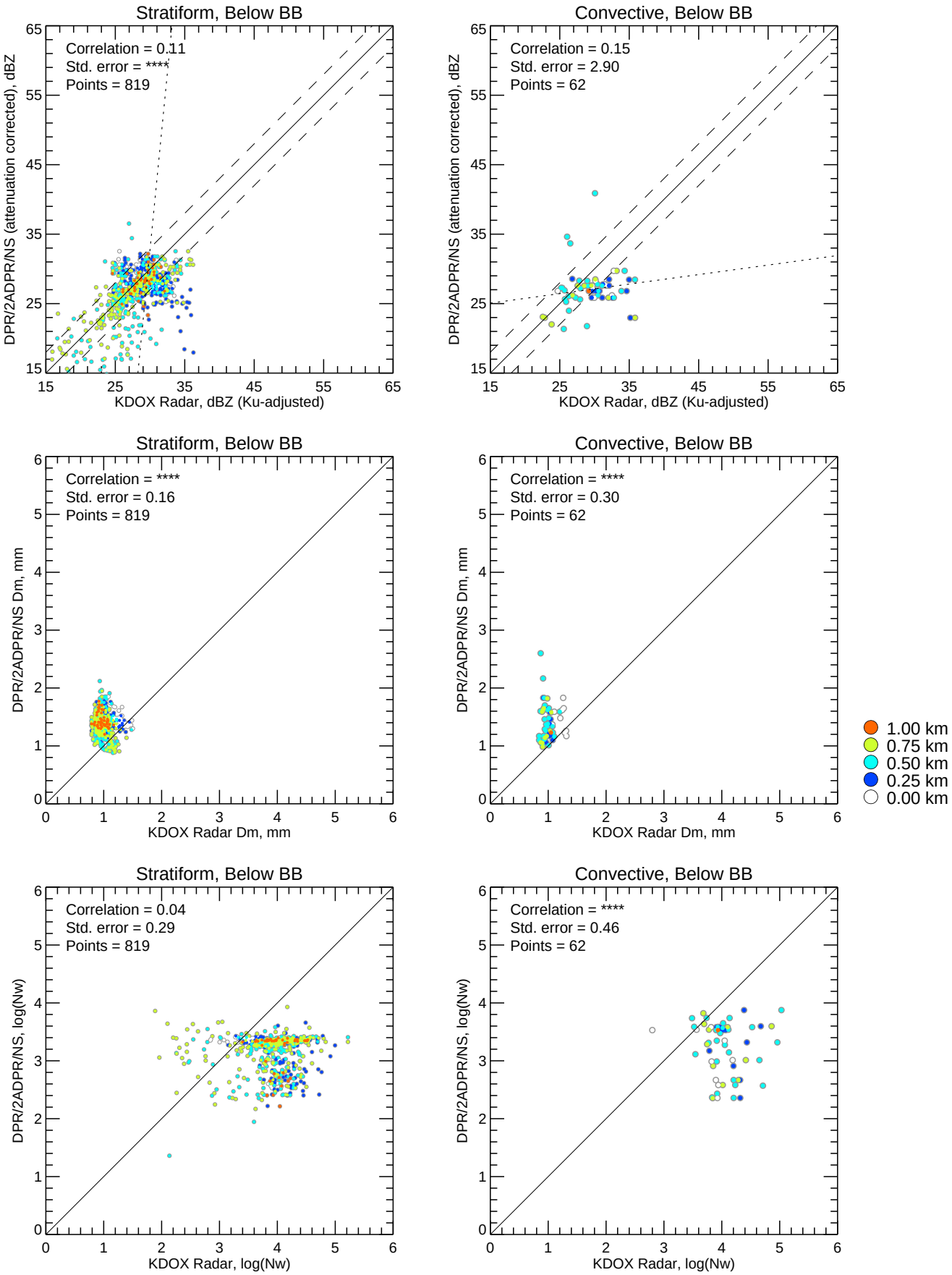
Vert.	Any Rain Type		Stratiform		Convective		Dataset Statistics			
Layer	DPR-GR	NumPts	DPR-GR	NumPts	DPR-GR	NumPts	AvgDist	DPRMaxNw	GRMaxNw	
1.0	-0.665	562	-0.661	520	-0.757	38	42.371	3.930	5.220	@ BB

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
No above-threshold points at height 7.000
No above-threshold points at height 8.000

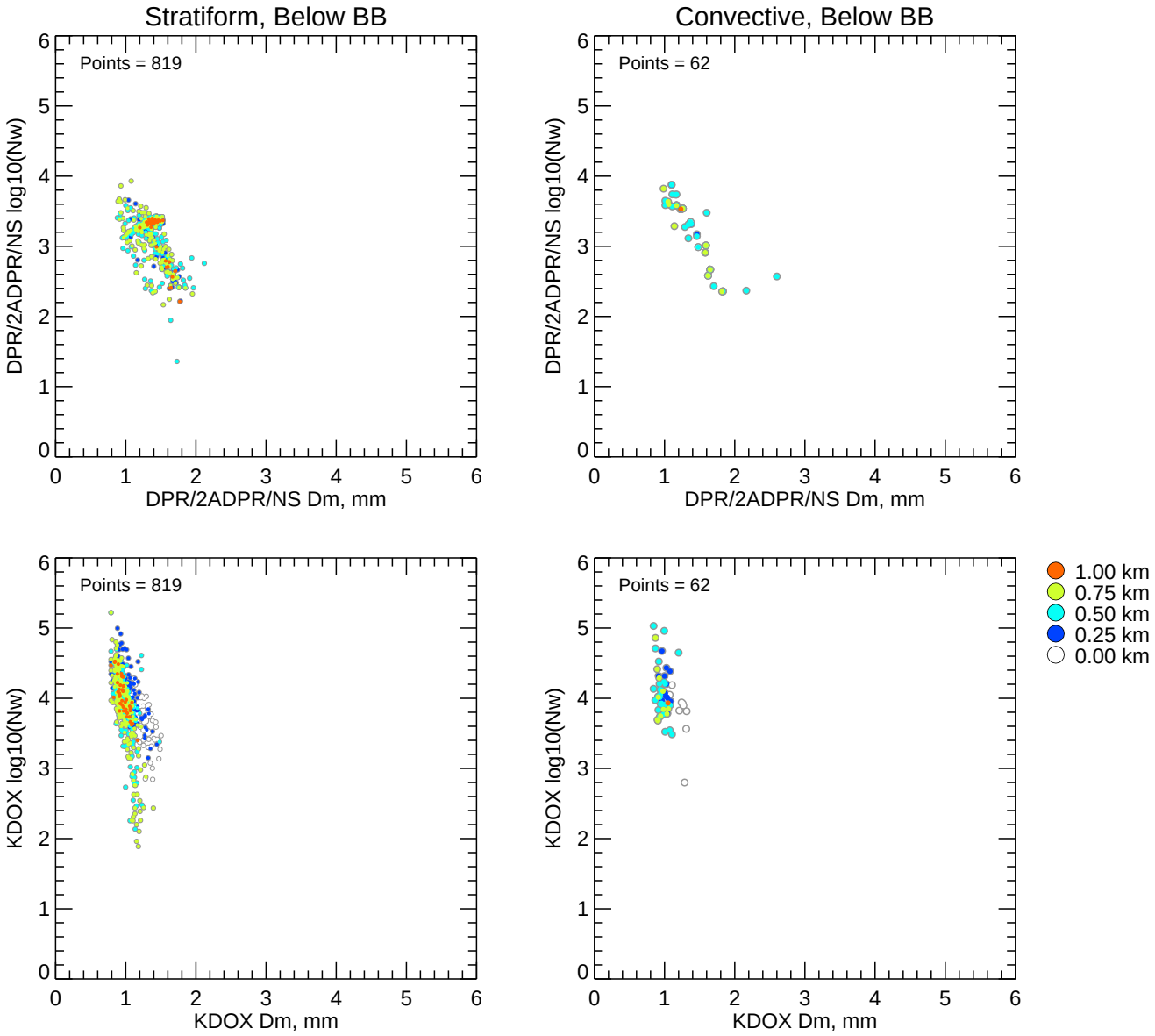
Mean Normalized Intercept Parameter (log10(Nw)) Statistics grouped by proximity to Bright Band:

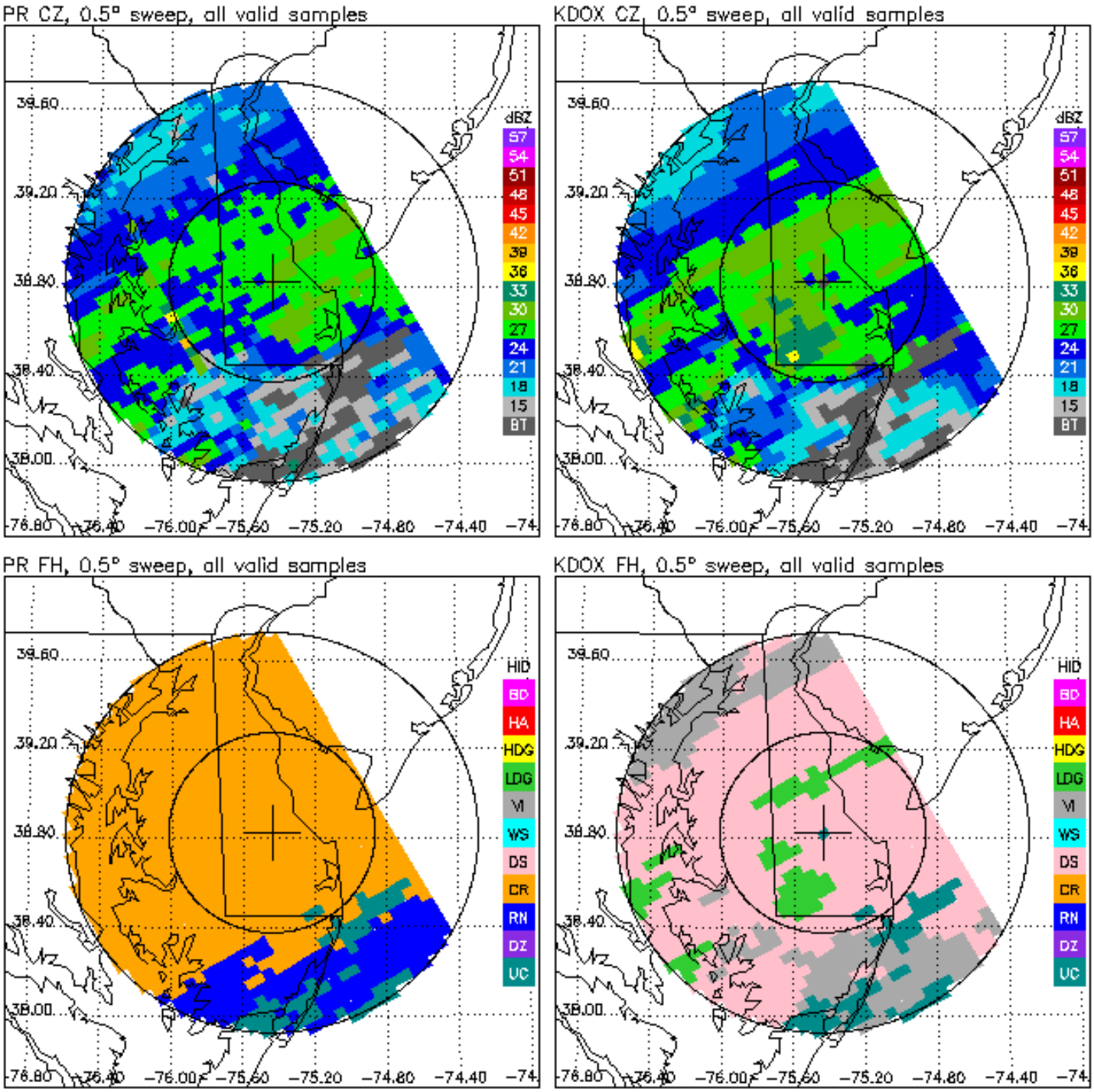
Surface	Any Rain Type		Stratiform		Convective		Dataset Statistics		
type	DPR-GR	NumPts	DPR-GR	NumPts	DPR-GR	NumPts	AvgDist	DPRMaxNw	GRMaxNw
Below	-0.695	885	-0.693	819	-0.774	62	36.241	3.930	5.220

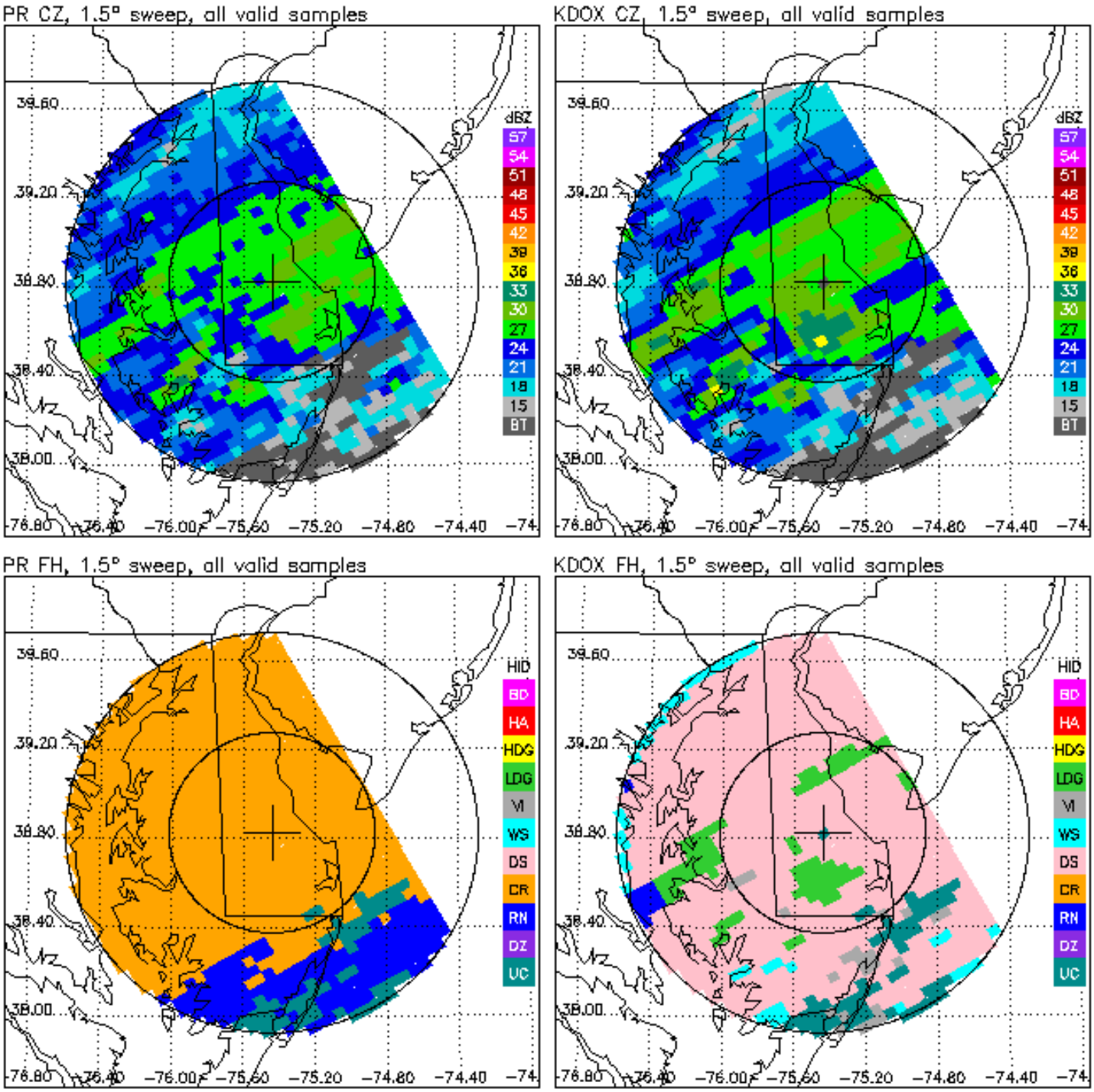
KDOX Ku-adjusted DSD vs. DPR 2ADPR/NS/V05A -- All non-missing pairs



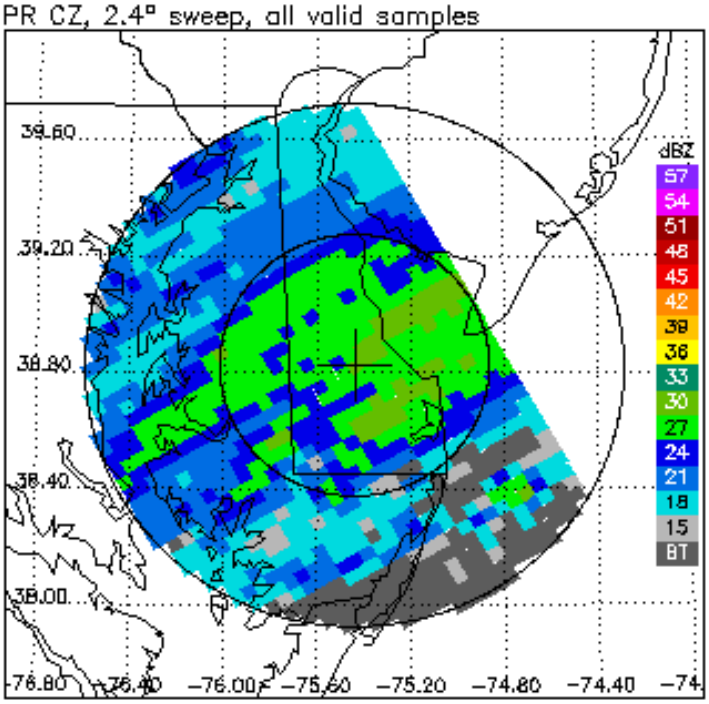
Dm vs. log10(Nw) for DPR 2ADPR/NS/V05A and KDOX -- All non-missing pairs



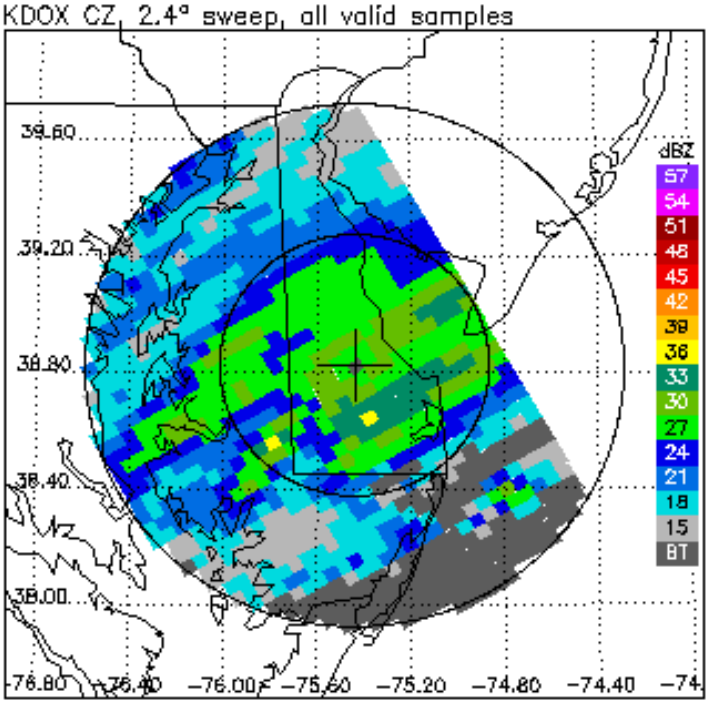

PR CZ, 0.5° sweep, all valid samples
KDOX CZ, 0.5° sweep, all valid samples
PR FH, 0.5° sweep, all valid samples
KDOX FH, 0.5° sweep, all valid samples
dBZ
57
54
51
48
45
42
39
36
33
30
27
24
21
18
15
BT
HID
BD
HA
HDG
LDG
VI
WS
DS
CR
RN
DZ
UC
39.60
39.20
38.80
38.40
38.00
-76.80
-76.40
-76.00
-75.60
-75.20
-74.80
-74.40
-74


PR CZ, 1.5° sweep, all valid samples
KDOX CZ, 1.5° sweep, all valid samples
PR FH, 1.5° sweep, all valid samples
KDOX FH, 1.5° sweep, all valid samples
dBZ
57
54
51
48
45
42
39
36
33
30
27
24
21
18
15
BT
HID
BD
HA
HDG
LDG
VI
WS
DS
CR
RN
DZ
UC
39.60
39.20
38.80
38.40
38.00
-76.80
-76.40
-76.00
-75.60
-75.20
-74.80
-74.40
-74

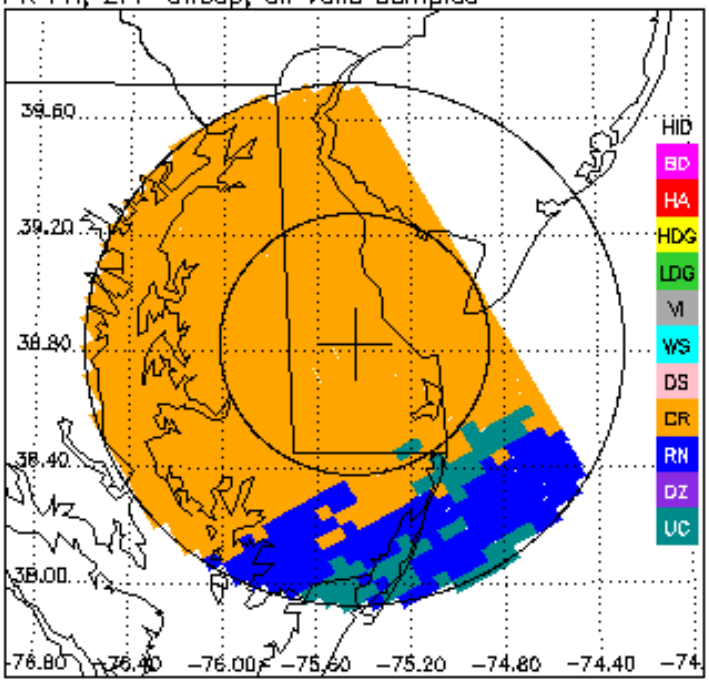
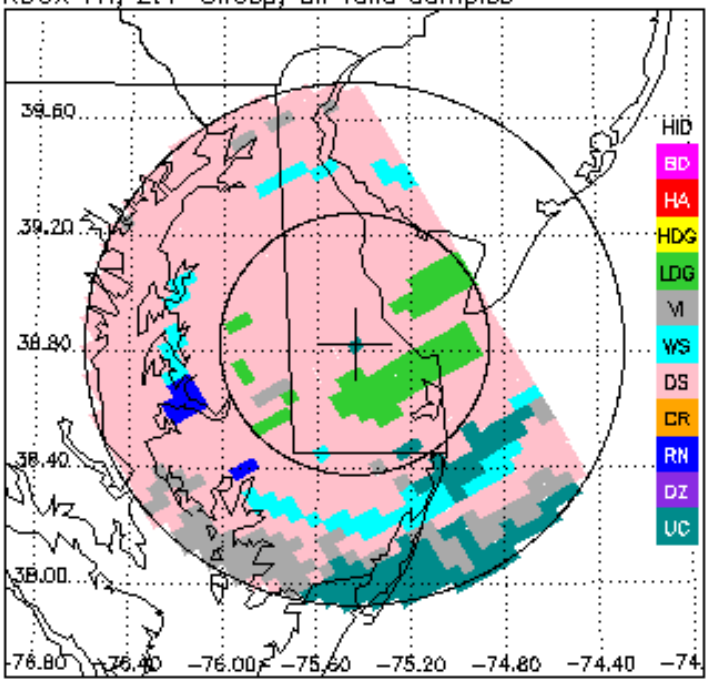
PR CZ, 2.4° sweep, all valid samples



KDOX CZ, 2.4° sweep, all valid samples



PR FH, 2.4° sweep, all valid samples



KDOX FH, 2.4° sweep, all valid samples