

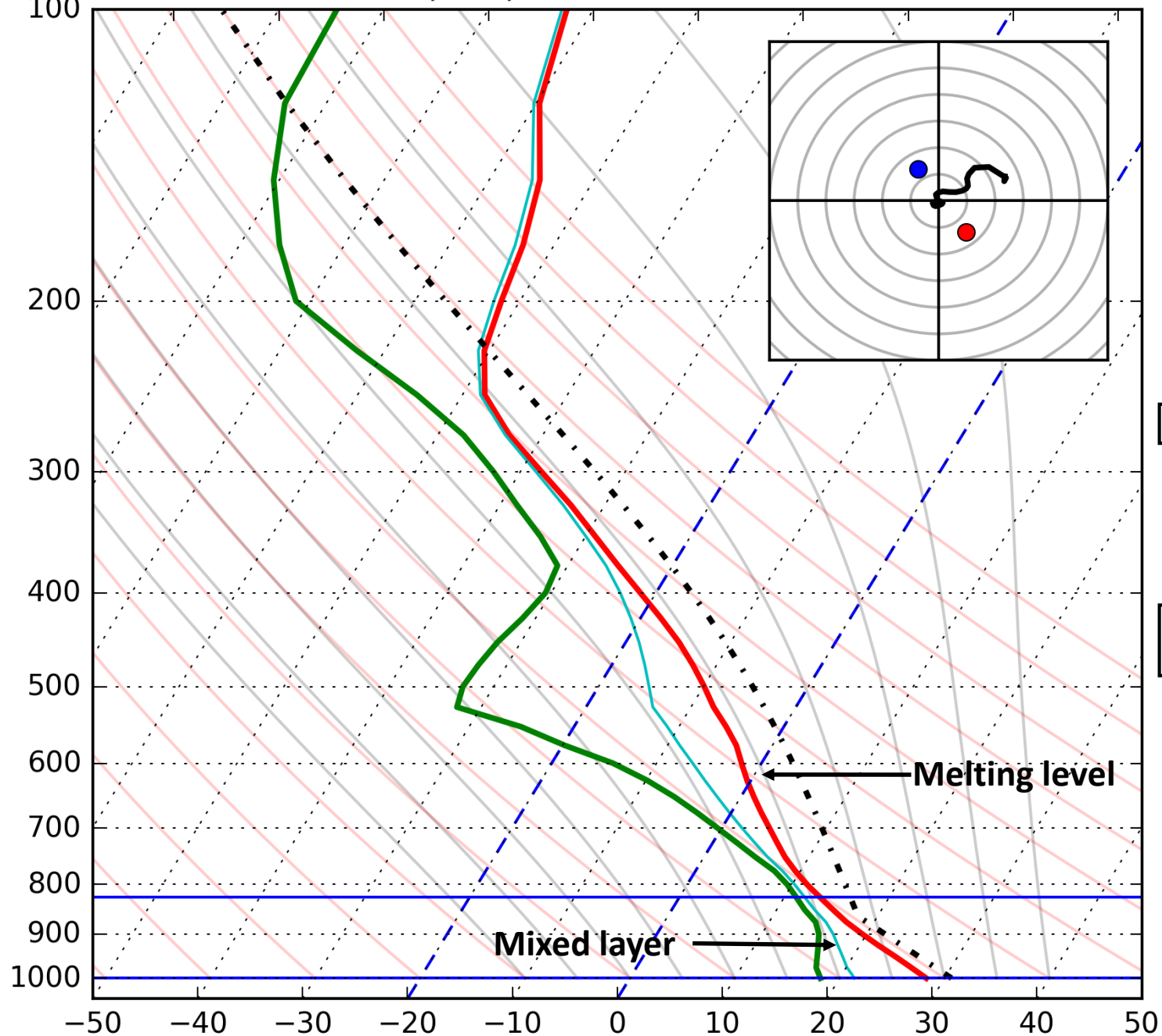
A Remote Microphysical Study of Severe Wind-producing Convective Storms

Figures for Paper No. 245

KENNETH L. PRYOR

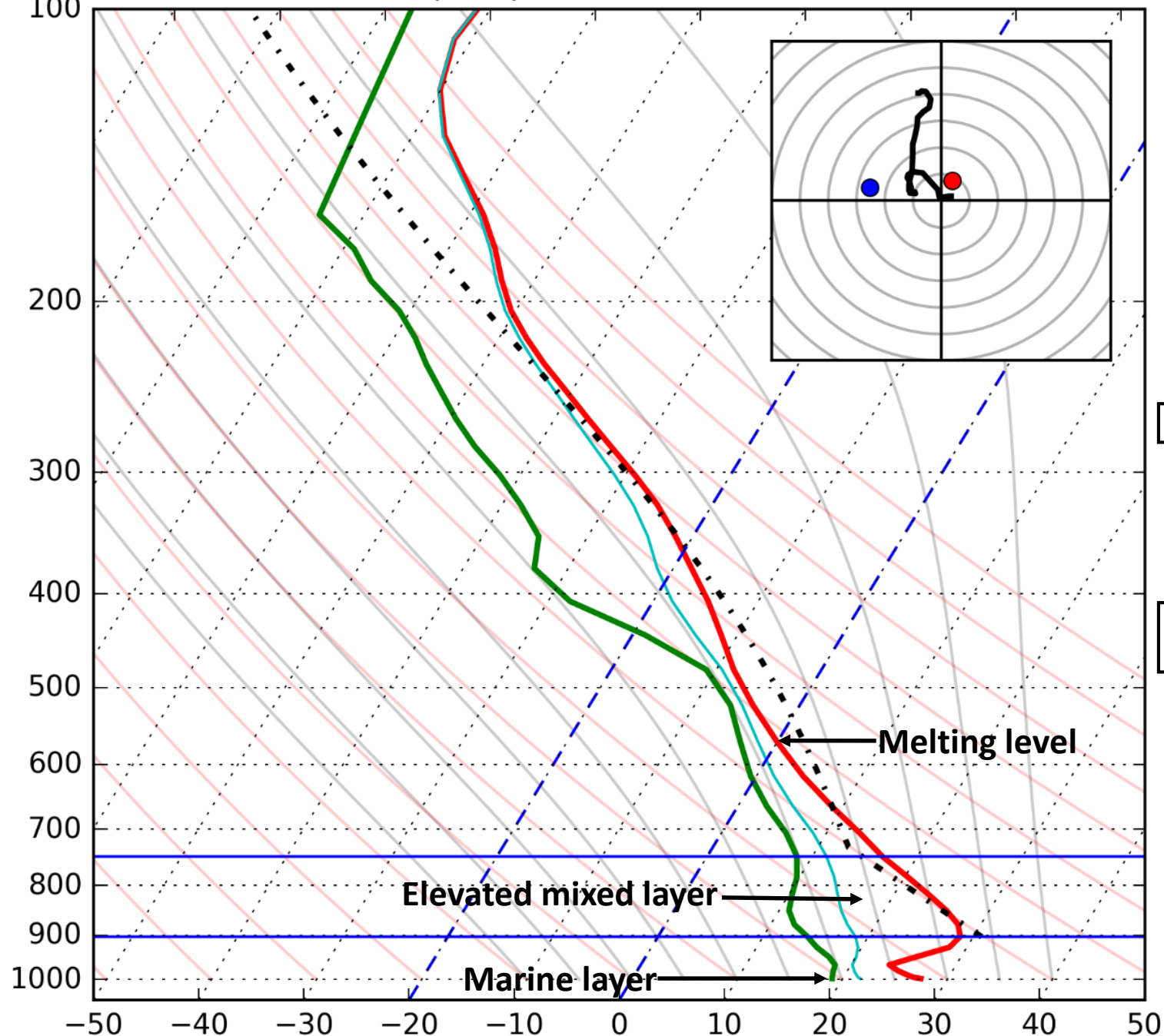
NOAA/NESDIS/Center for Satellite Applications and Research, College
Park, Maryland

a) FDK 170801/1800 (RAP)



0-1 km SRH: -2 m²/s²
 0-1 km Shear: 0 kts
 0-3 km SRH: 1 m²/s²
 EBWD: 1 kts
 Eff. SRH: -6 m²/s²
 K-index: 33
 MLCAPE: 1311 J/kg
 MLCIN: -2 J/kg
 MLEL: 10945 m AGL
 MLLCL: 1313 m AGL
 MLLFC: 1443 m AGL
 MLLI: -3 C
MUCAPE: 1546 J/kg
 MUCIN: -2 J/kg
 MUEL: 11088 m AGL
 MULCL: 1223 m AGL
 MULFC: 1346 m AGL
 MULI: -4 C
MWPI: 5
PWV: 1.46 inch
 SBCAPE: 1546 J/kg
 SBCIN: -2 J/kg
 SBEL: 11088 m AGL
 SBLCL: 1223 m AGL
 SBLFC: 1346 m AGL
 SBLI: -4 C
 SCP: -0.0
 SHIP: 0.2
 STP(cin): -0.0
 STP(fix): -0.0

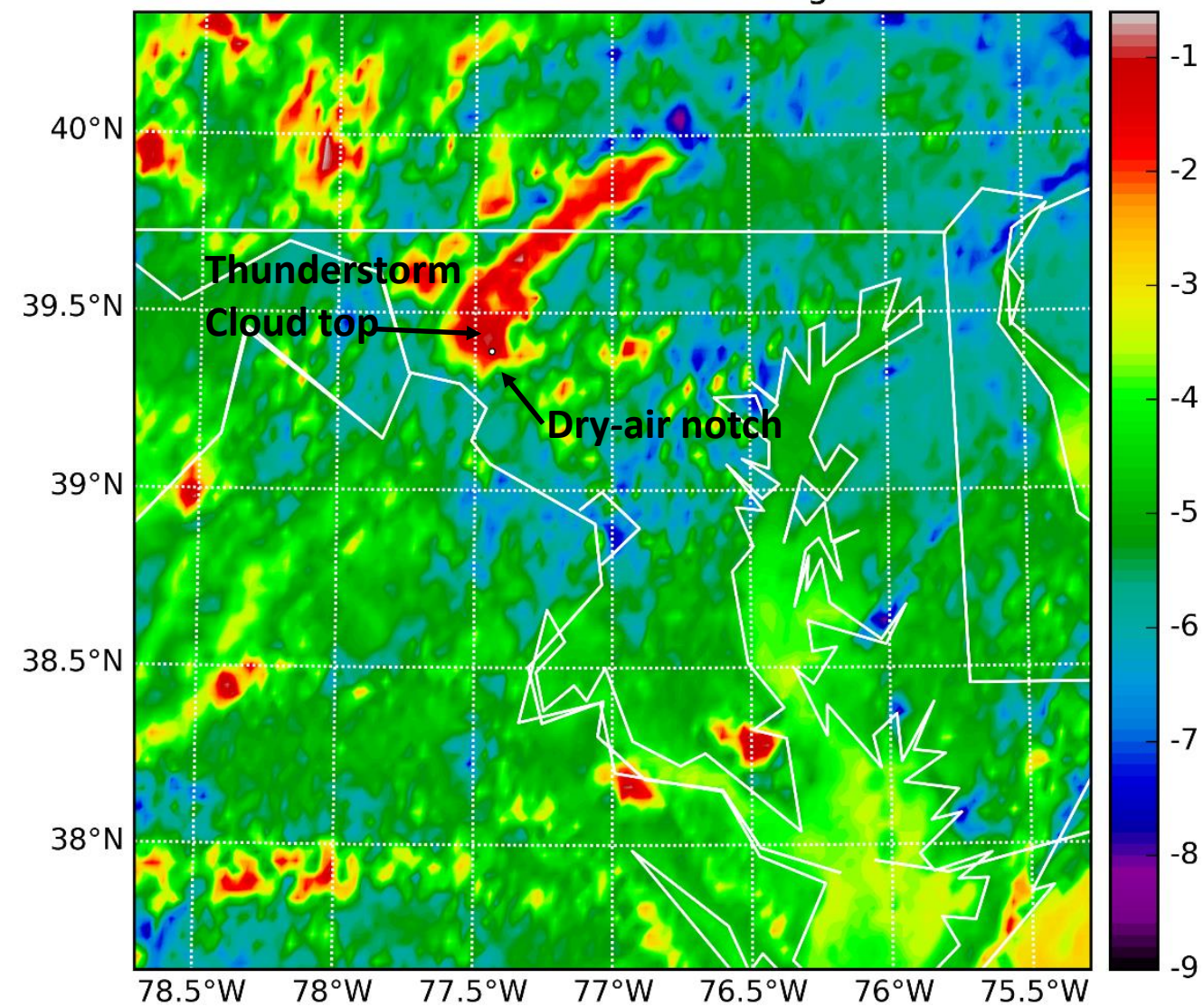
b) NKX 170801/2100 (RAP)



0-1 km SRH: 20 m2/s2
 0-1 km Shear: 16 kts
 0-3 km SRH: -12 m2/s2
 EBWD: 8 kts
 Eff. SRH: -32 m2/s2
 K-index: 36
 MLCAPE: 109 J/kg
 MLCIN: -621 J/kg
 MLEL: 7662 m AGL
 MLLCL: 1552 m AGL
 MLLFC: 4330 m AGL
 MLLI: -1 C
 MUCAPE: 268 J/kg
 MUCIN: -238 J/kg
 MUEL: 8745 m AGL
 MULCL: 2719 m AGL
 MULFC: 4131 m AGL
 MULI: -2 C
 MWPI: 4
 PWV: 1.86 inch
 SBCAPE: 65 J/kg
 SBCIN: -730 J/kg
 SBEL: 7381 m AGL
 SBLCL: 1092 m AGL
 SBLFC: 4793 m AGL
 SBLI: -1 C
 SCP: -0.0
 SHIP: 0.0
 STP(cin): -0.0
 STP(fix): 0.0

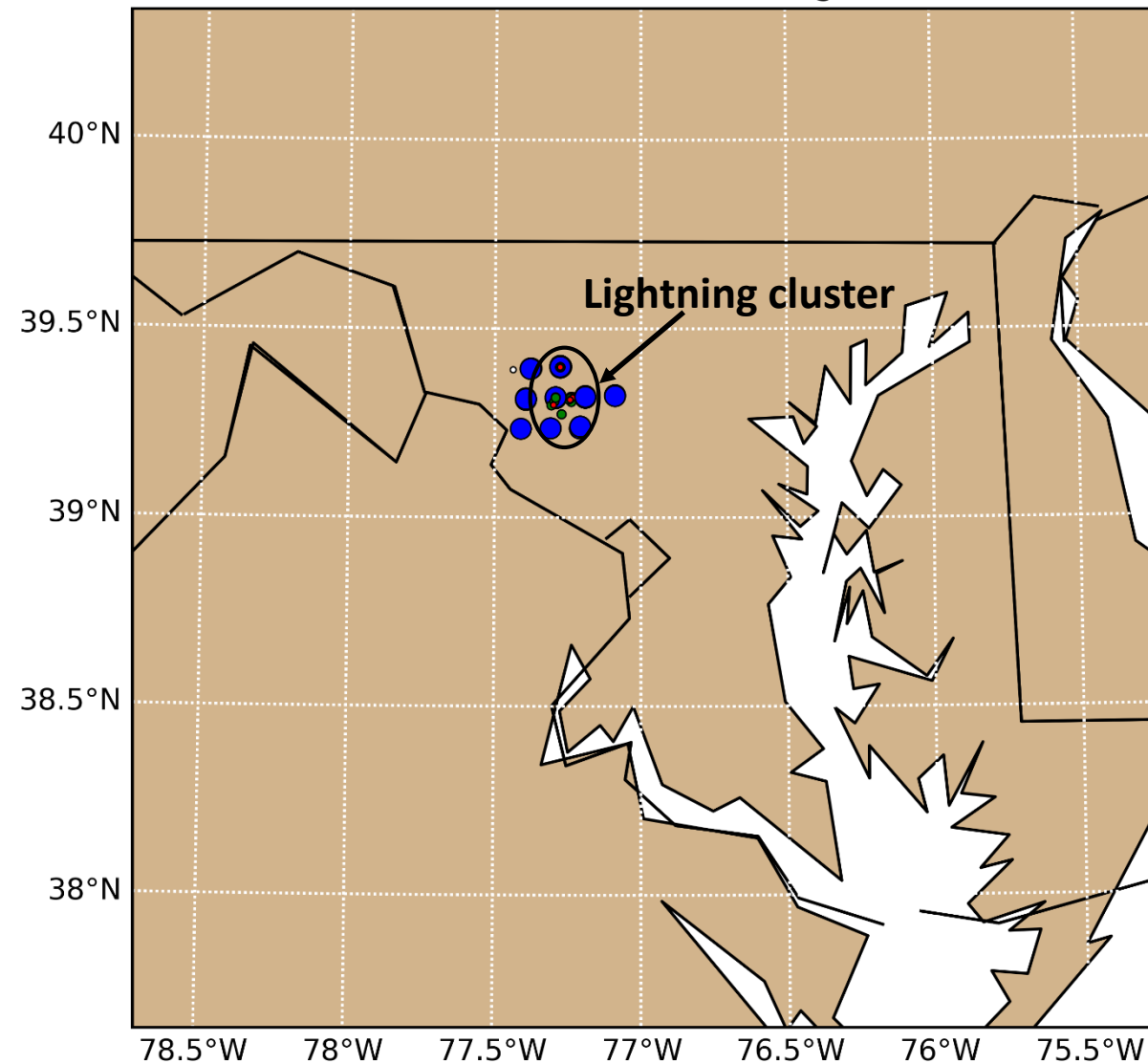
a)

GOES-16 IR BTD 1800 UTC 1 August 2017



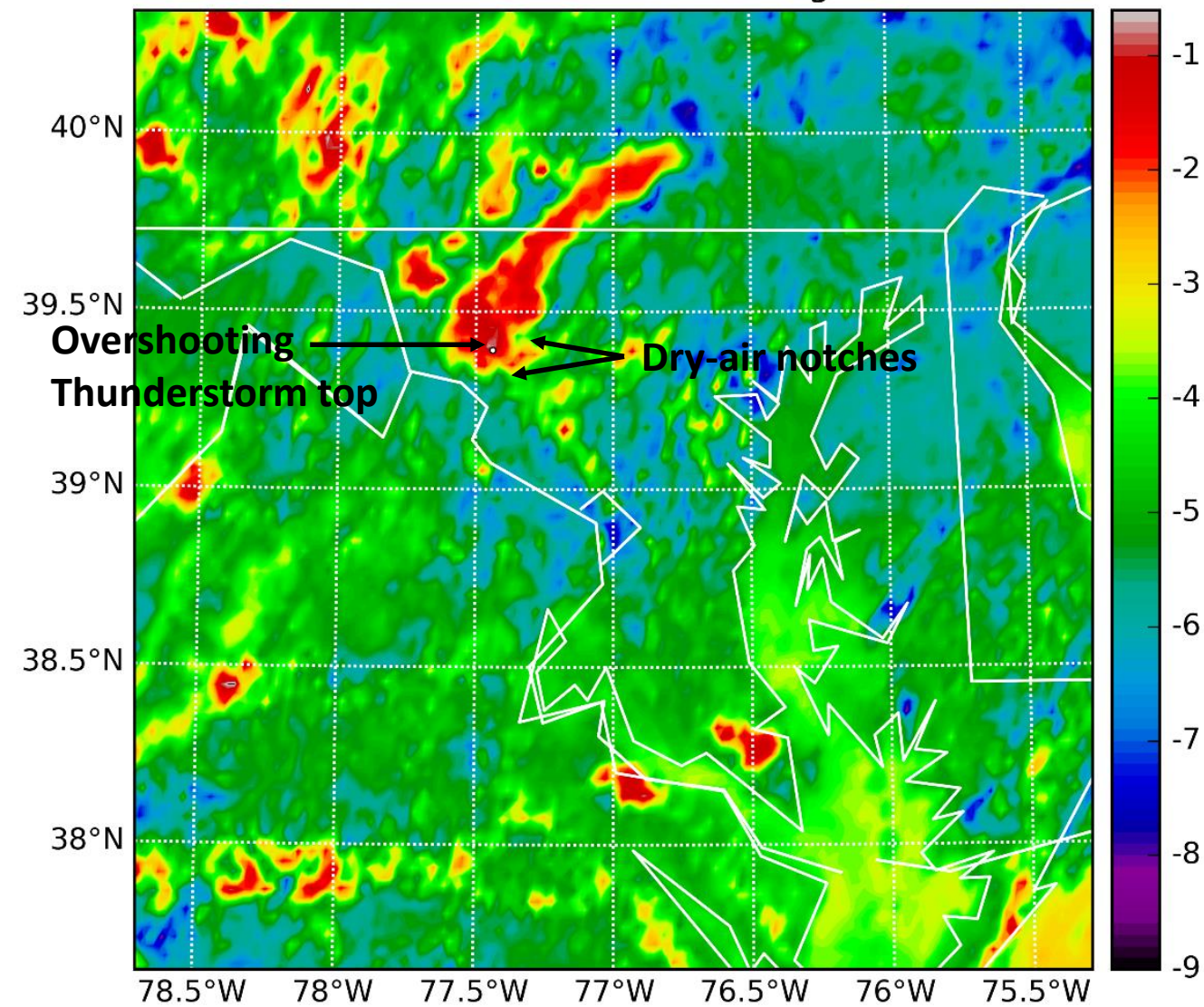
b)

GOES-16 GLM 1800 UTC 1 August 2017



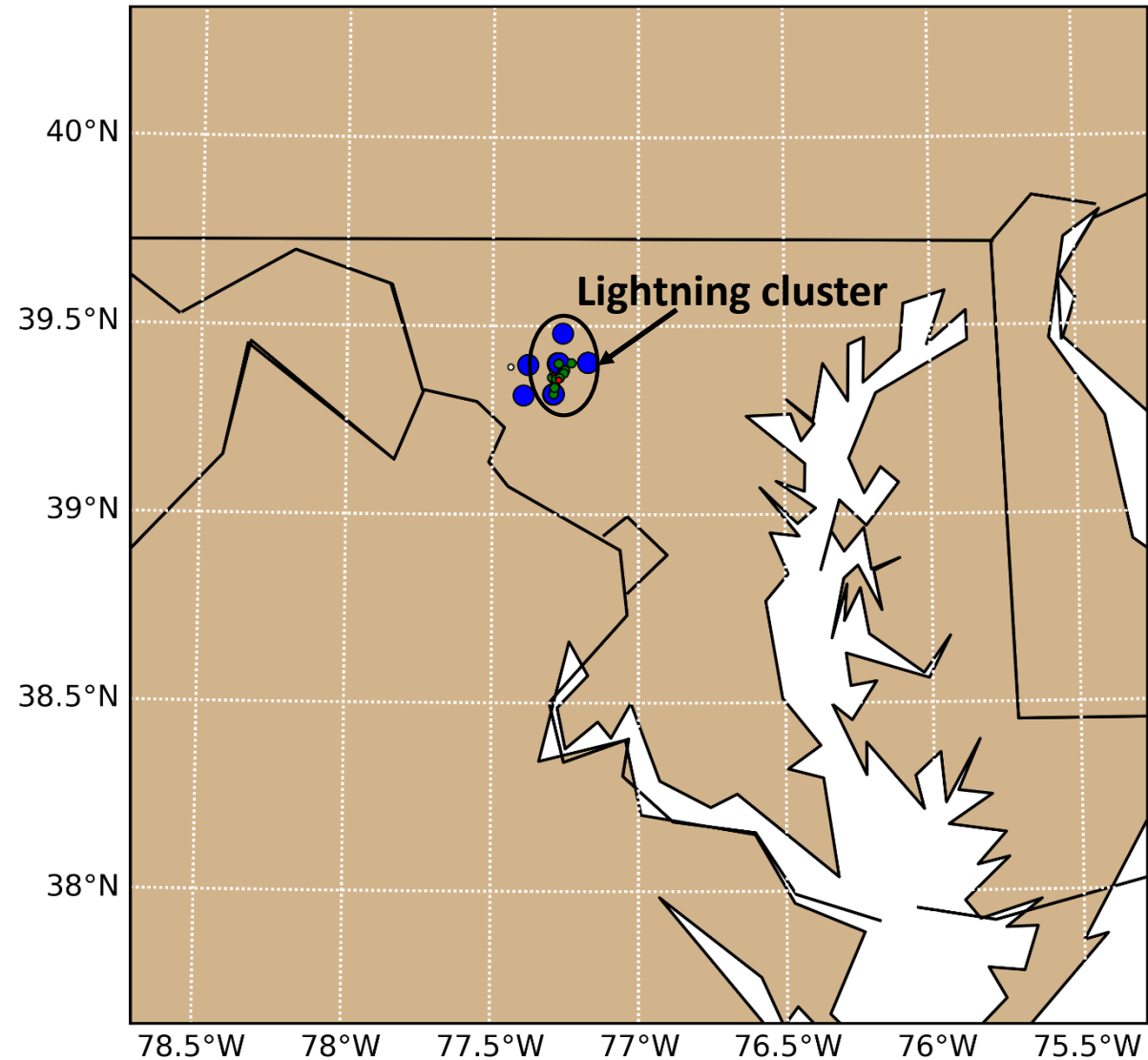
a)

GOES-16 IR BTD 1805 UTC 1 August 2017

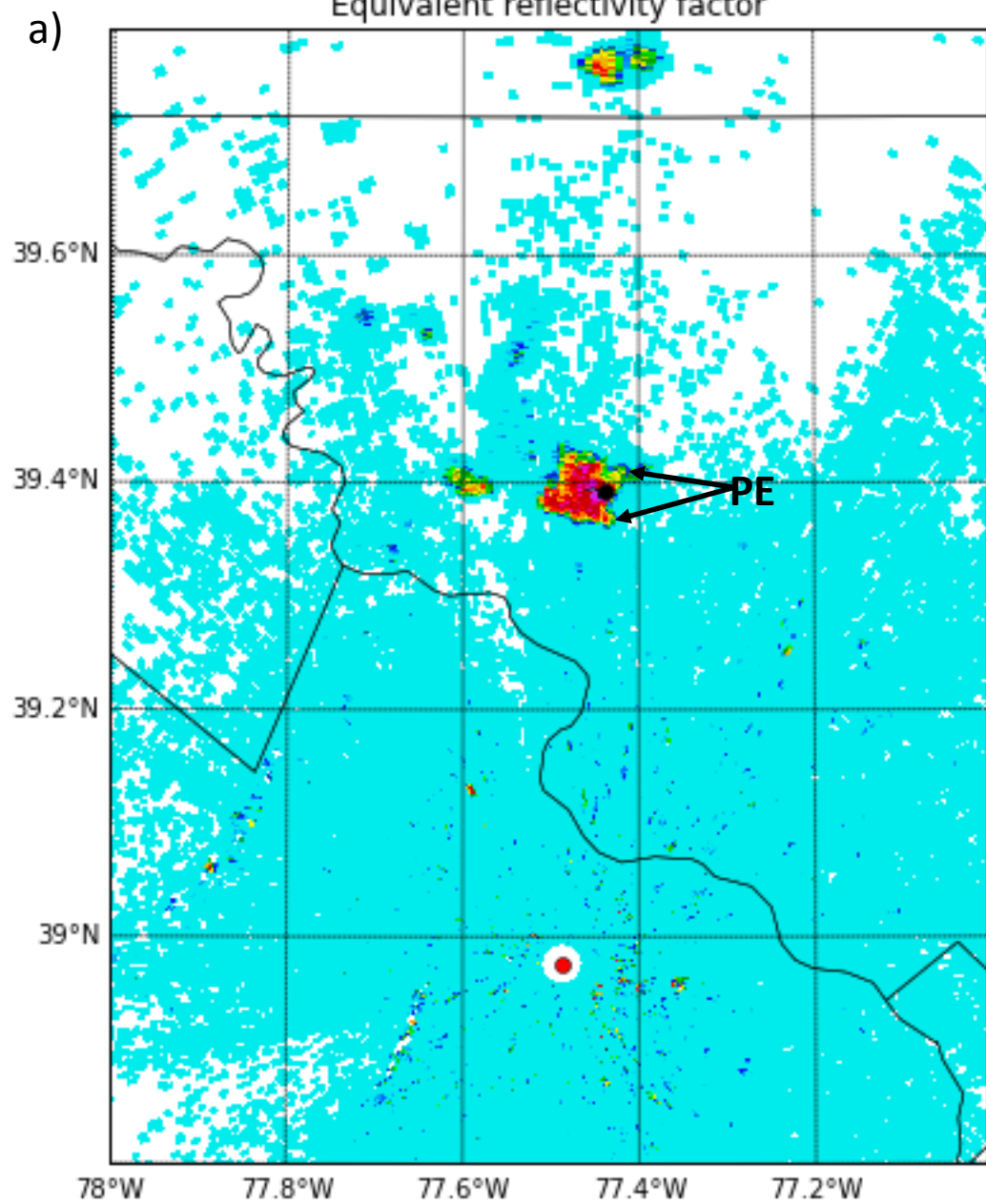


b)

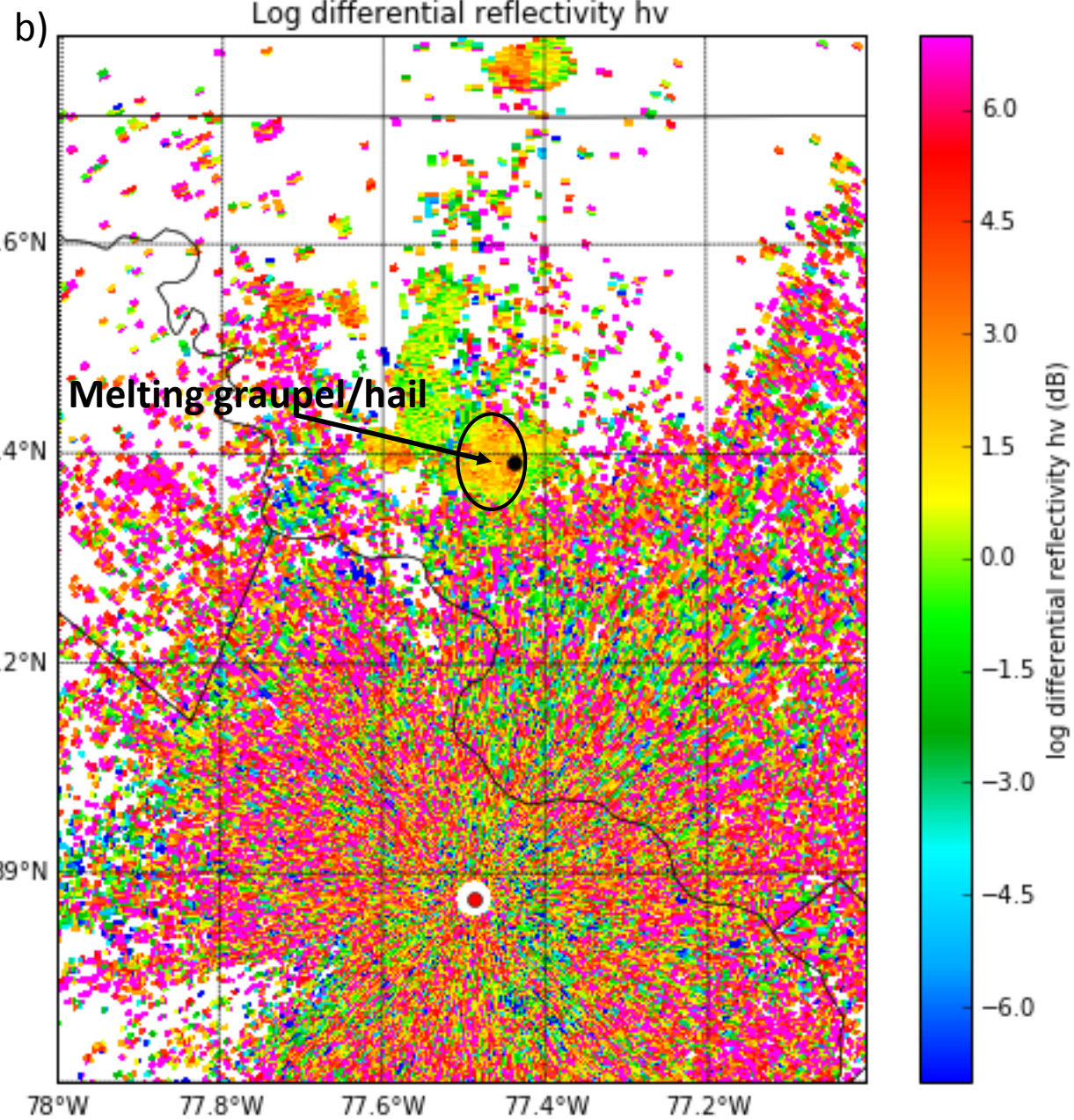
GOES-16 GLM 1805 UTC 1 August 2017



0.5 Deg. 2017-08-01T18:01:39.230000Z
Equivalent reflectivity factor

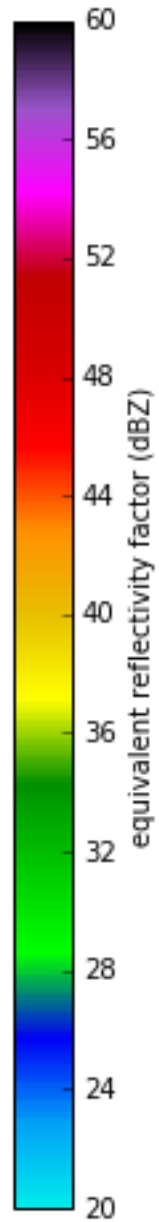
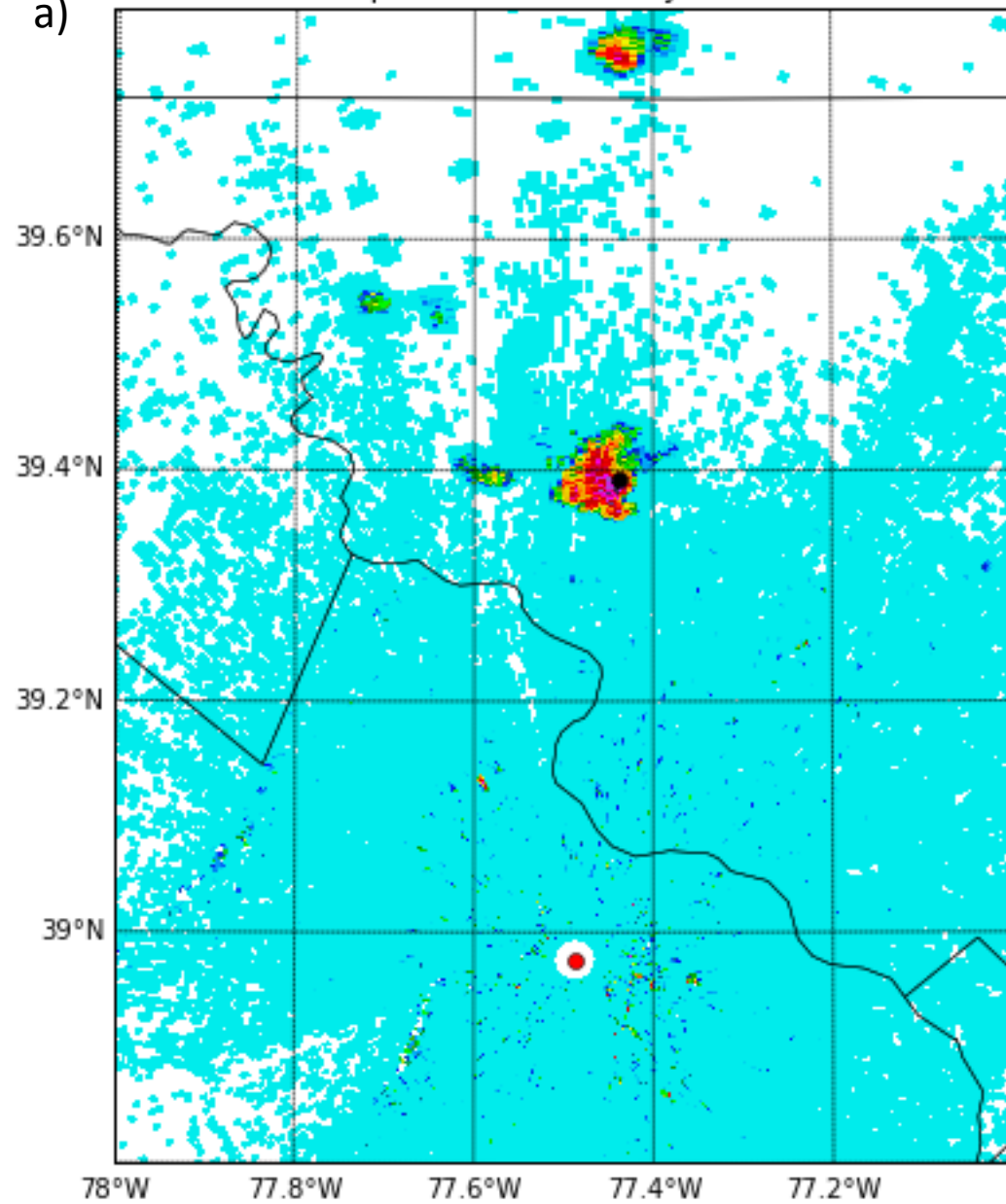


0.5 Deg. 2017-08-01T18:01:39.230000Z
Log differential reflectivity hv



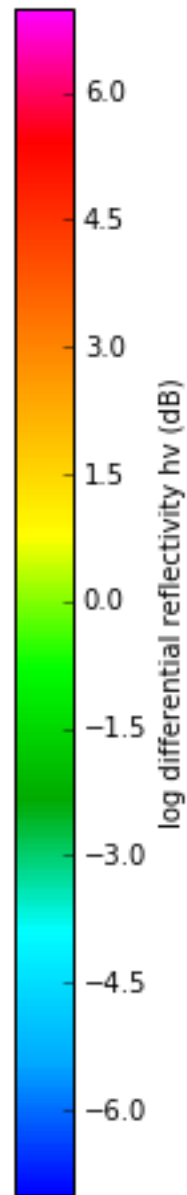
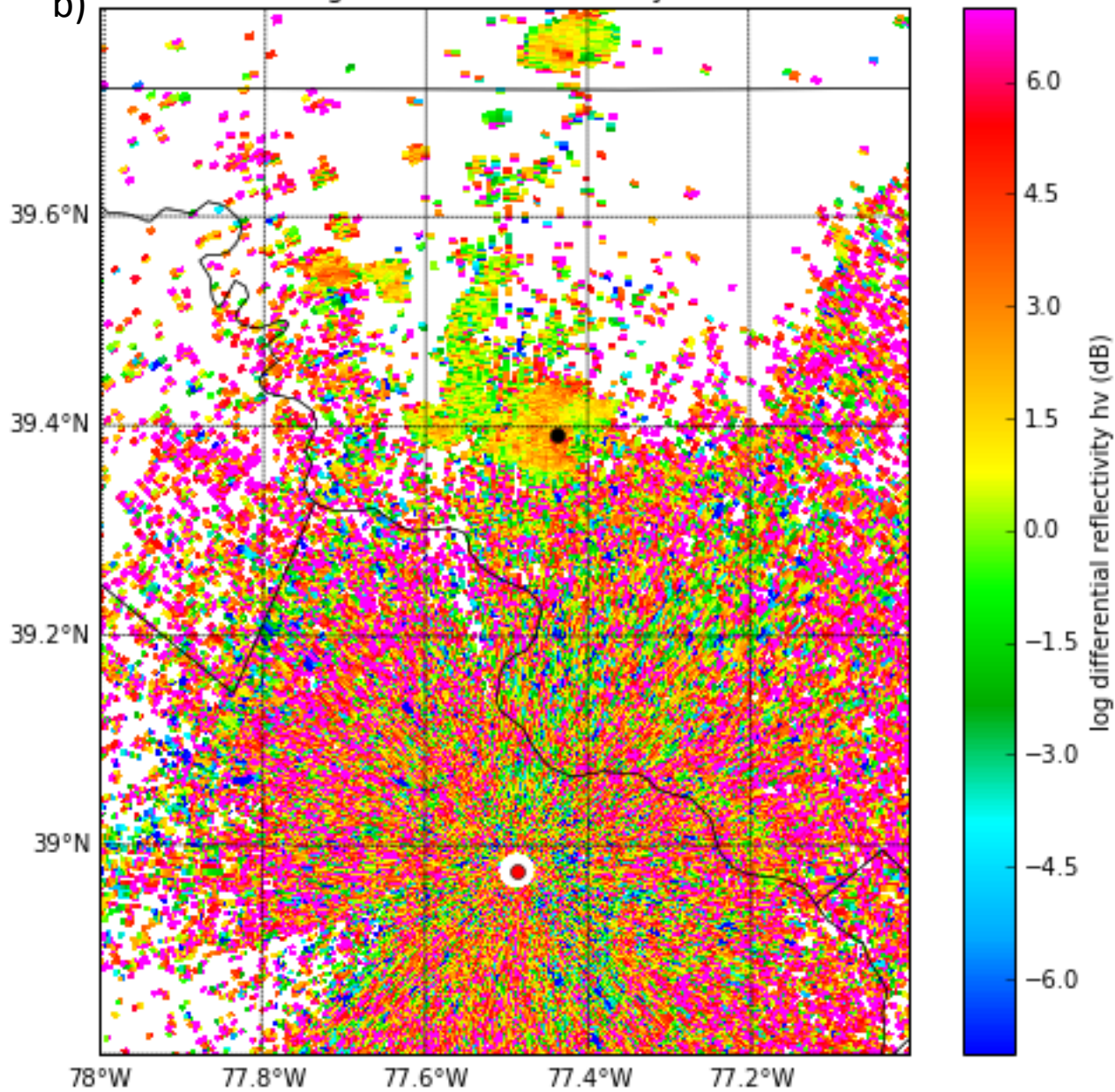
0.5 Deg. 2017-08-01T18:05:44.455000Z
Equivalent reflectivity factor

a)



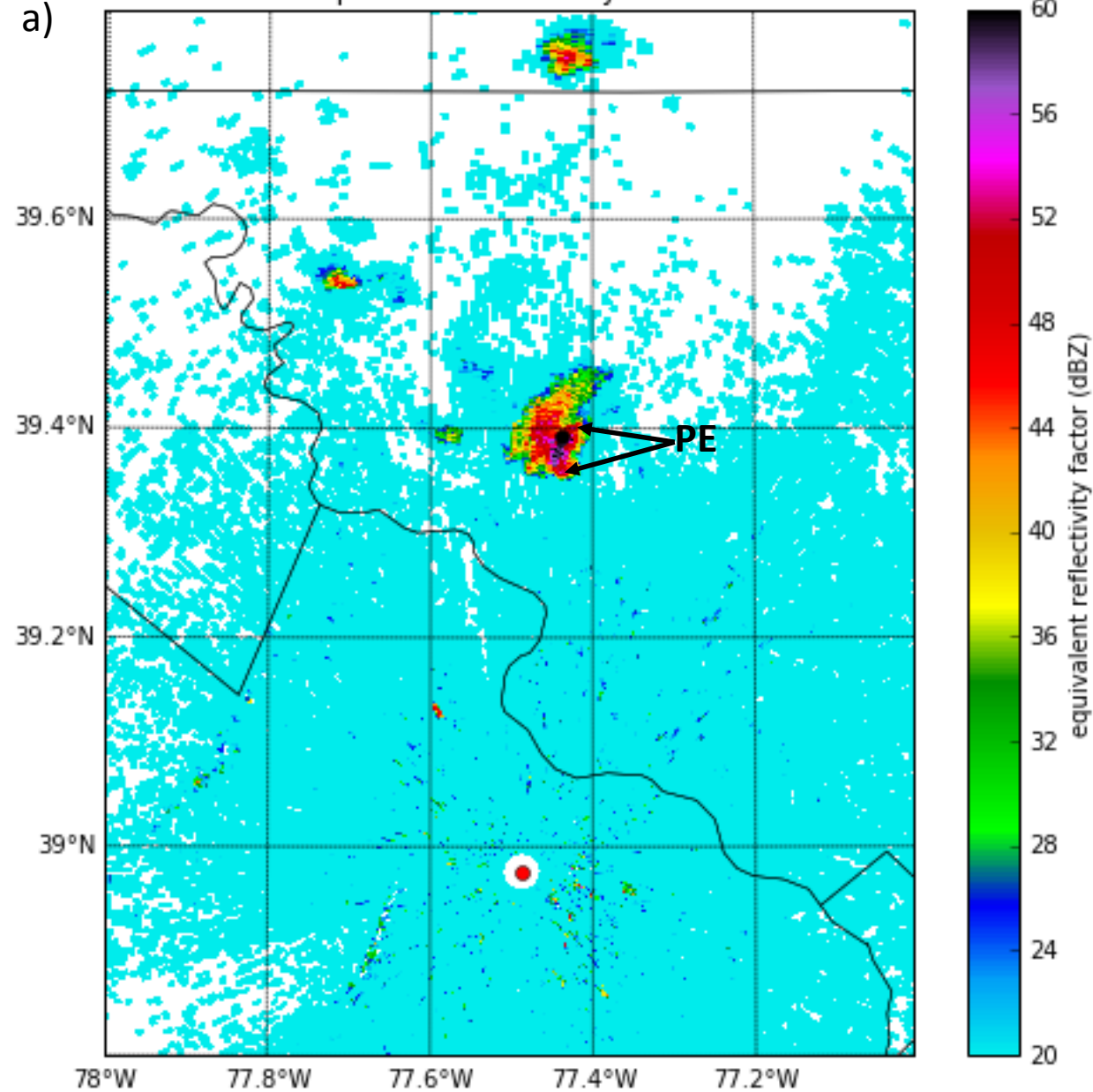
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Log differential reflectivity hv

b)



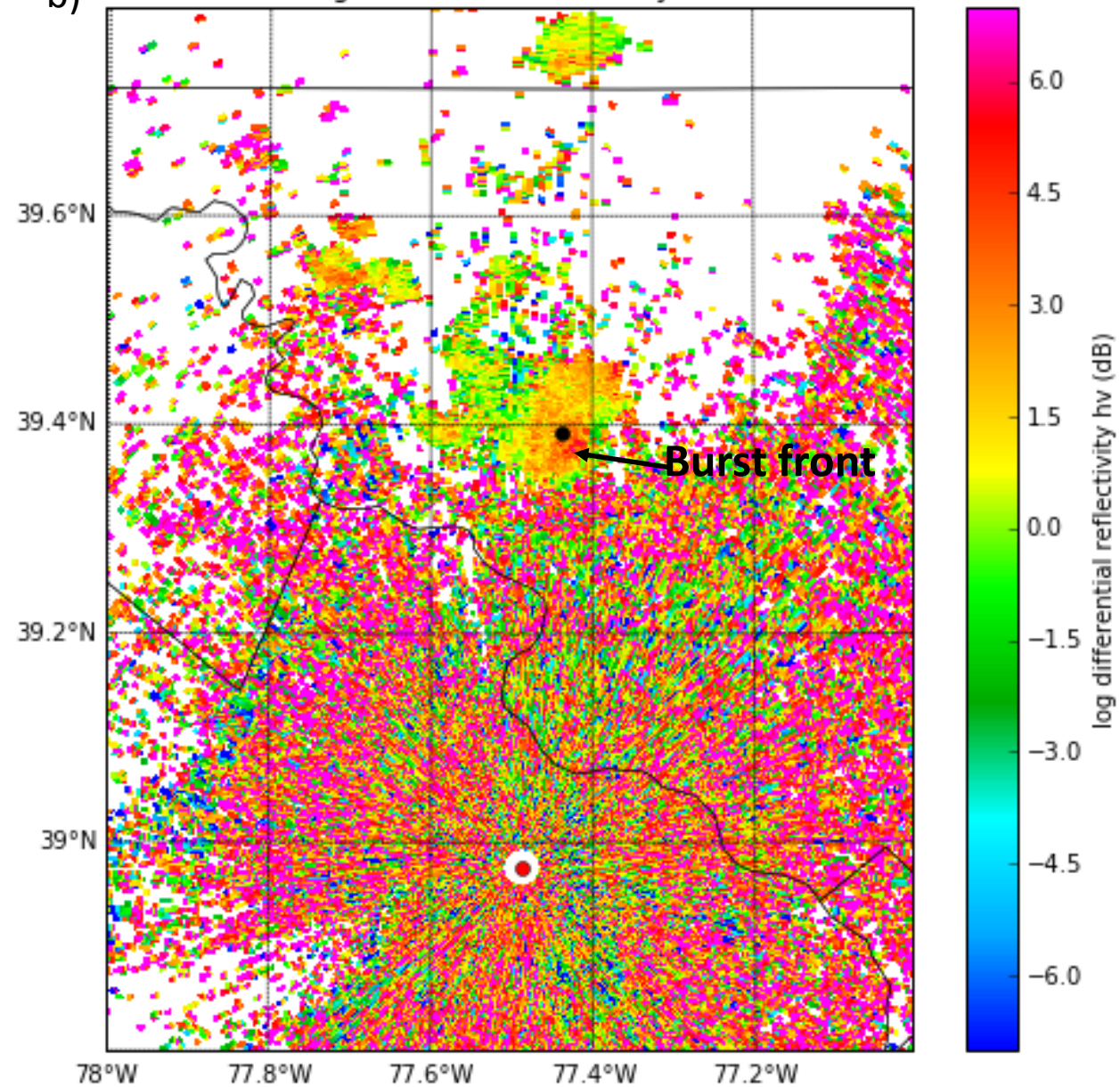
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Equivalent reflectivity factor

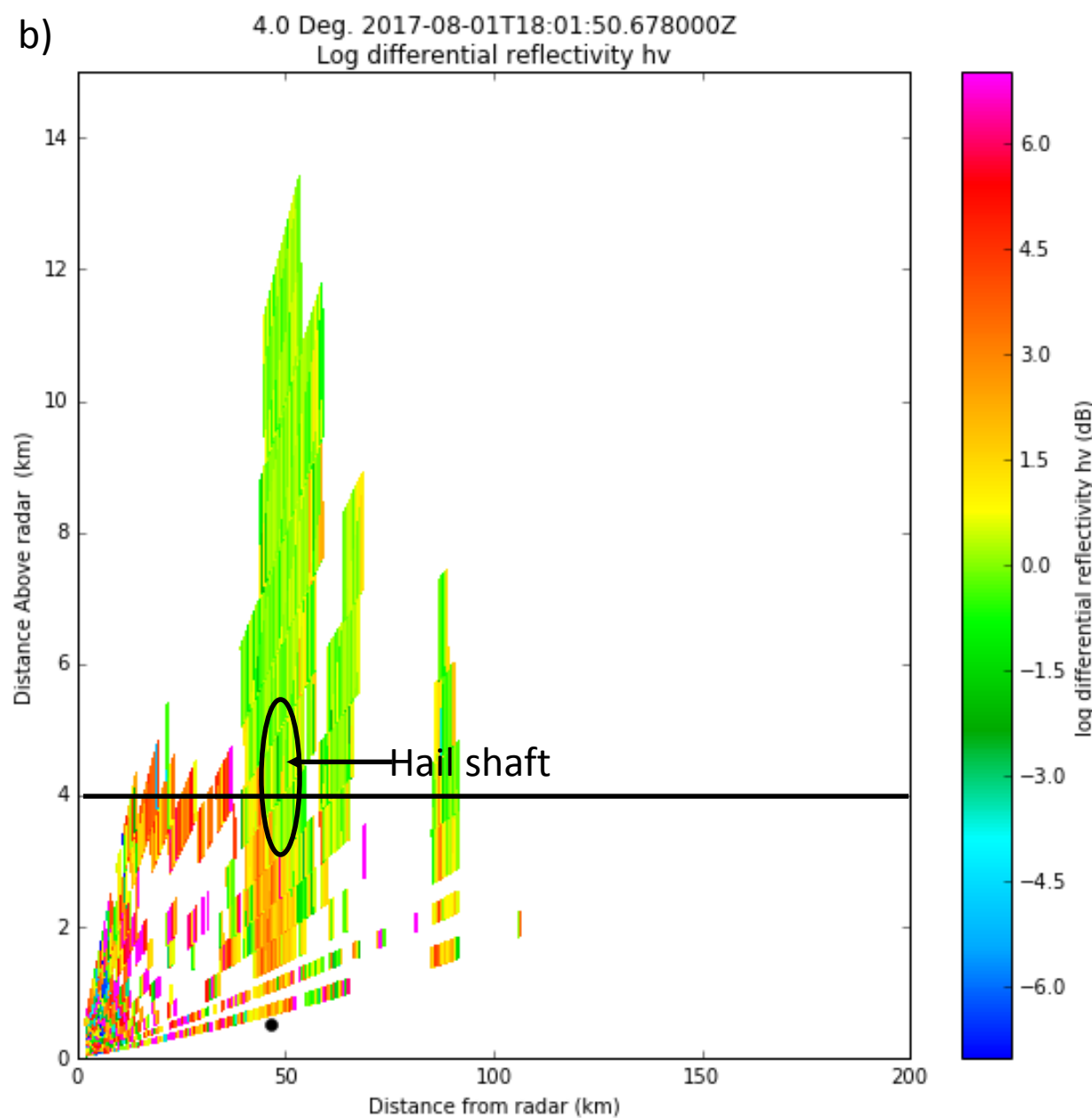
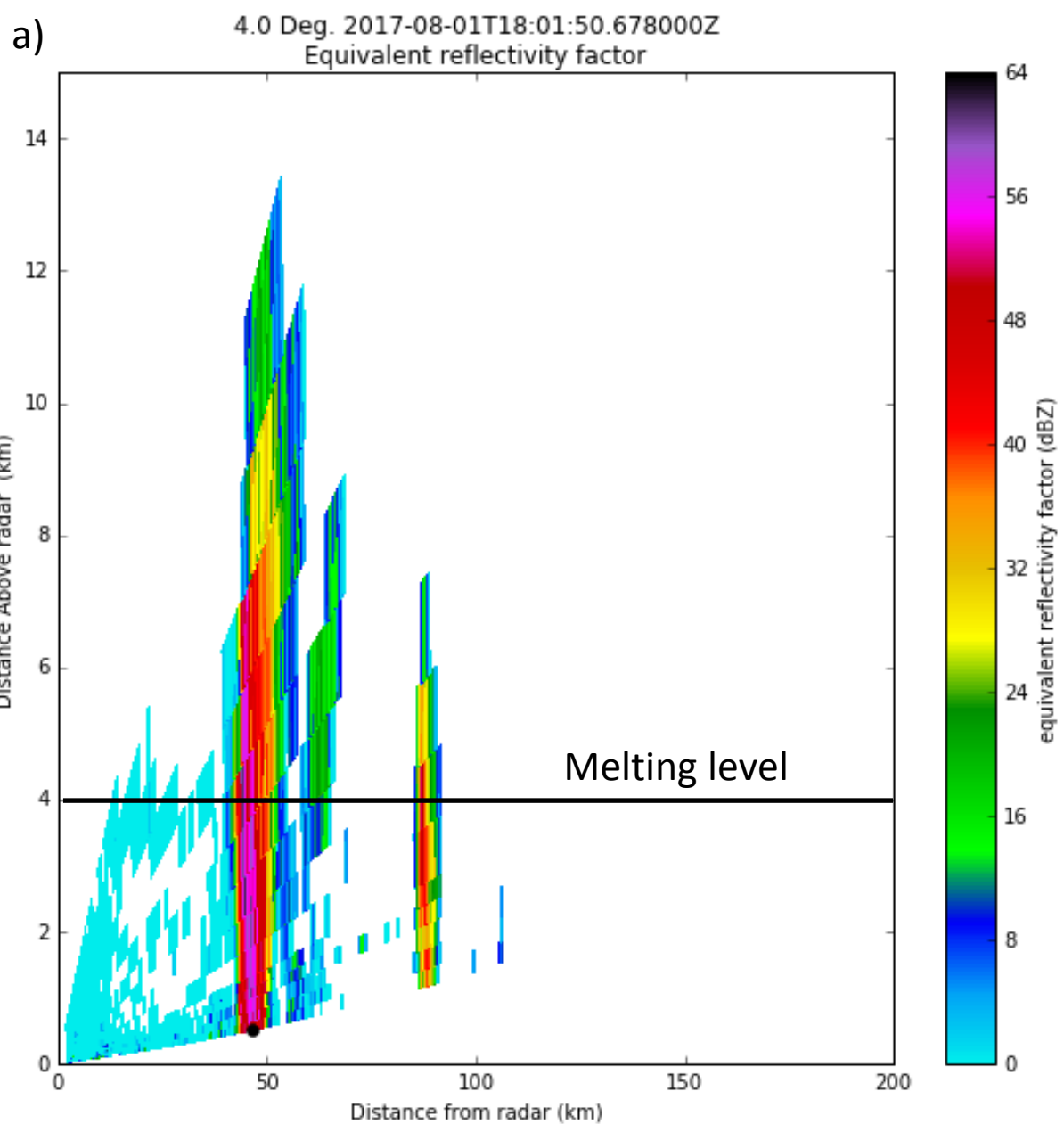
a)

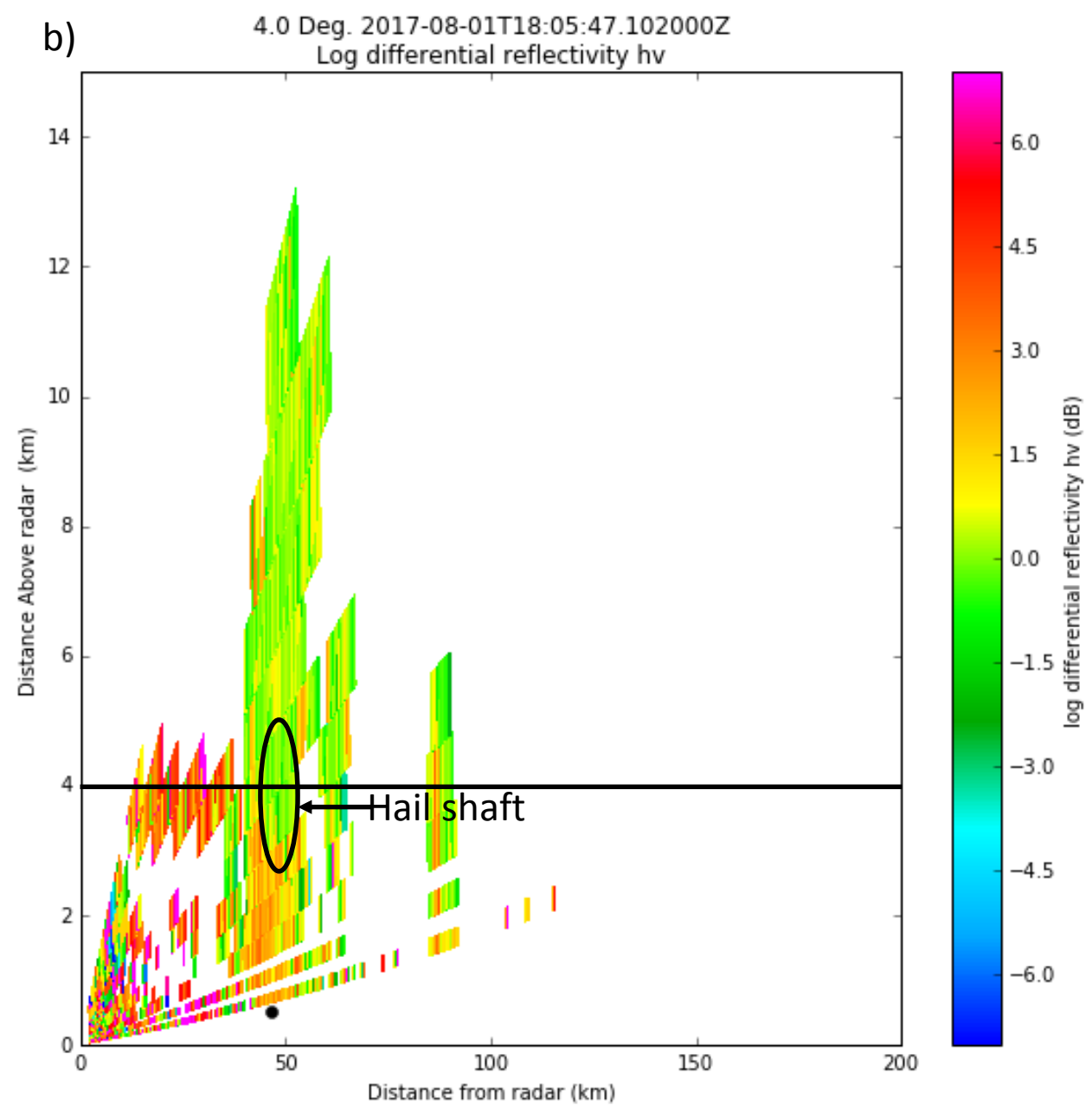
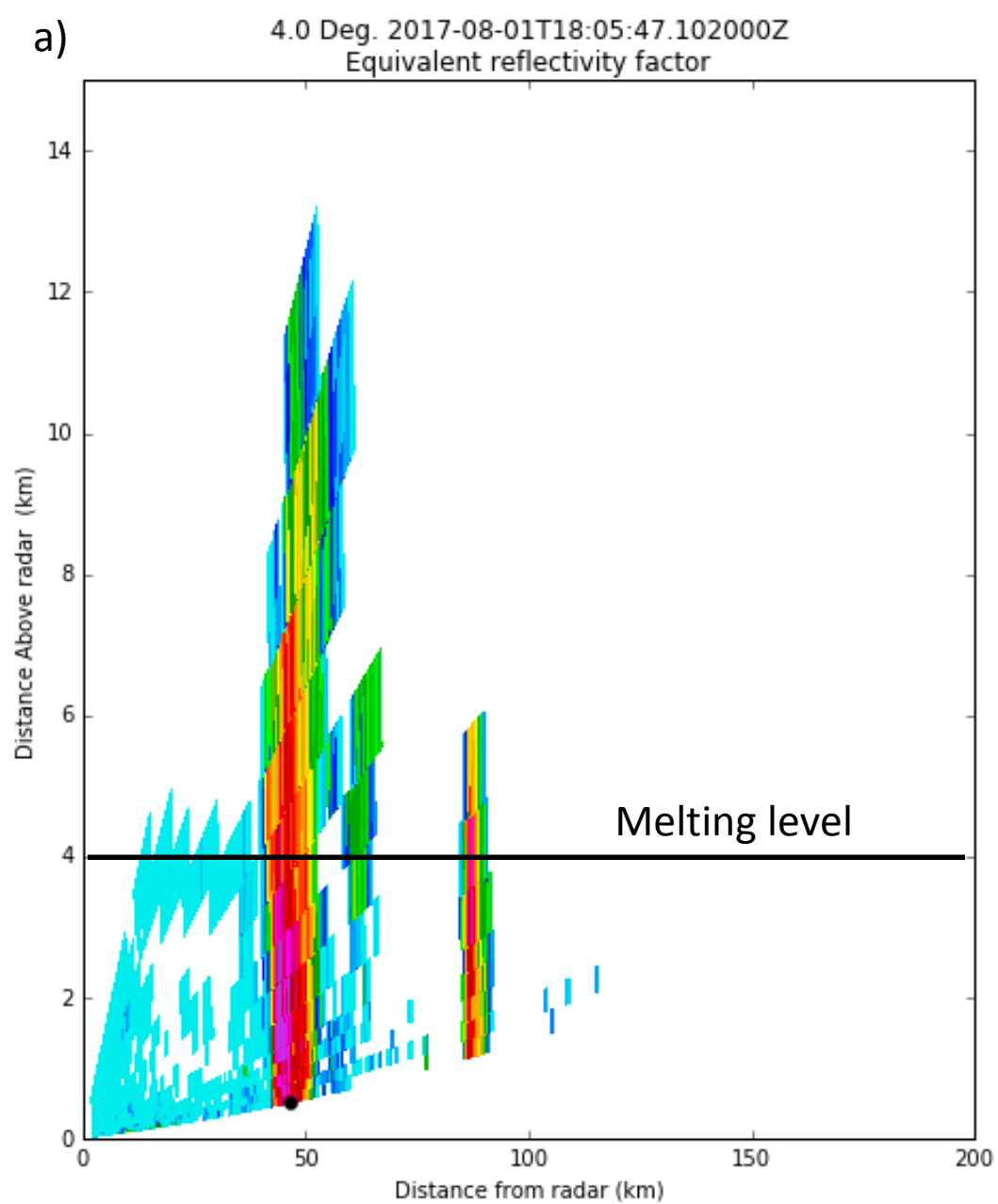


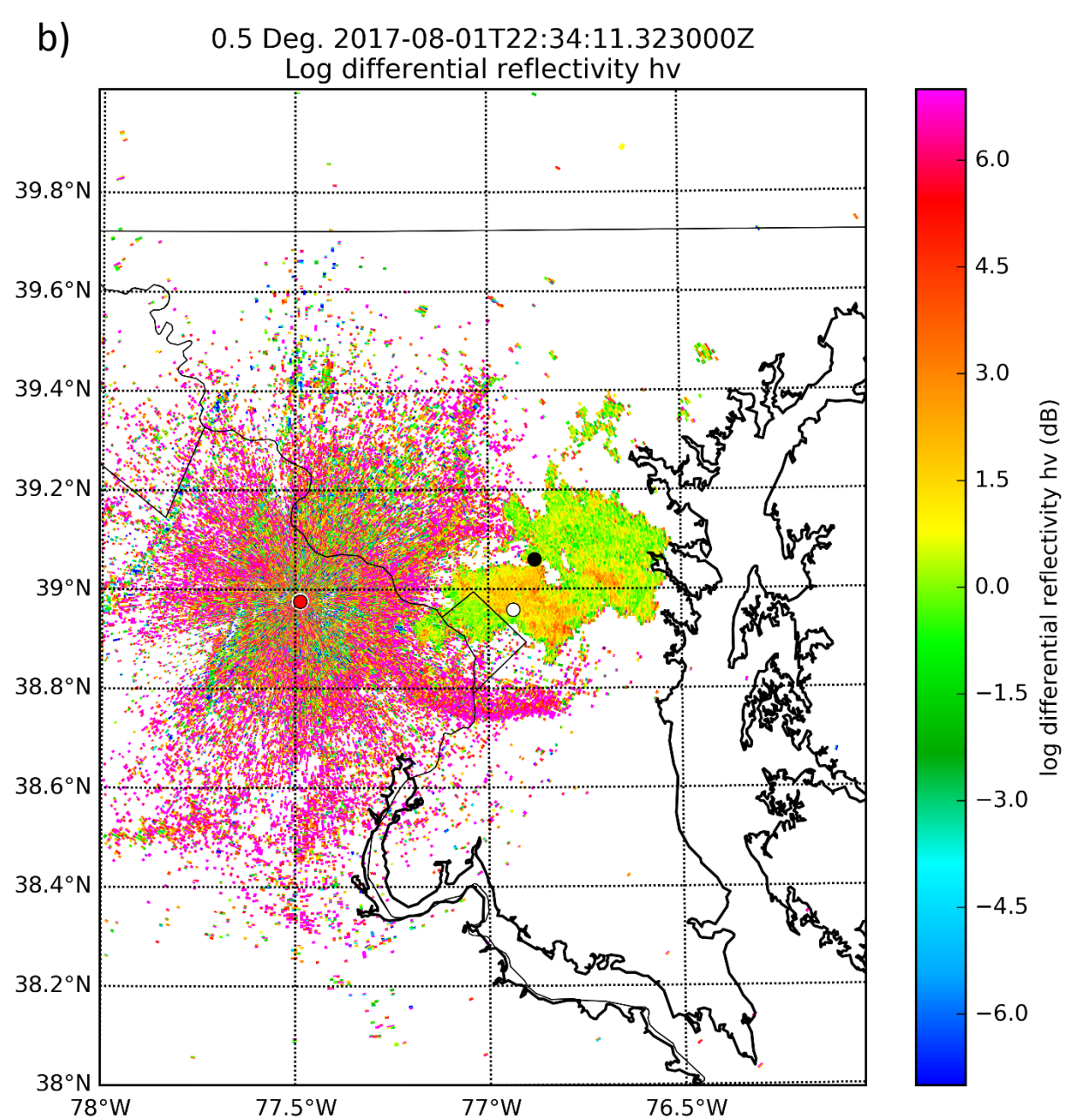
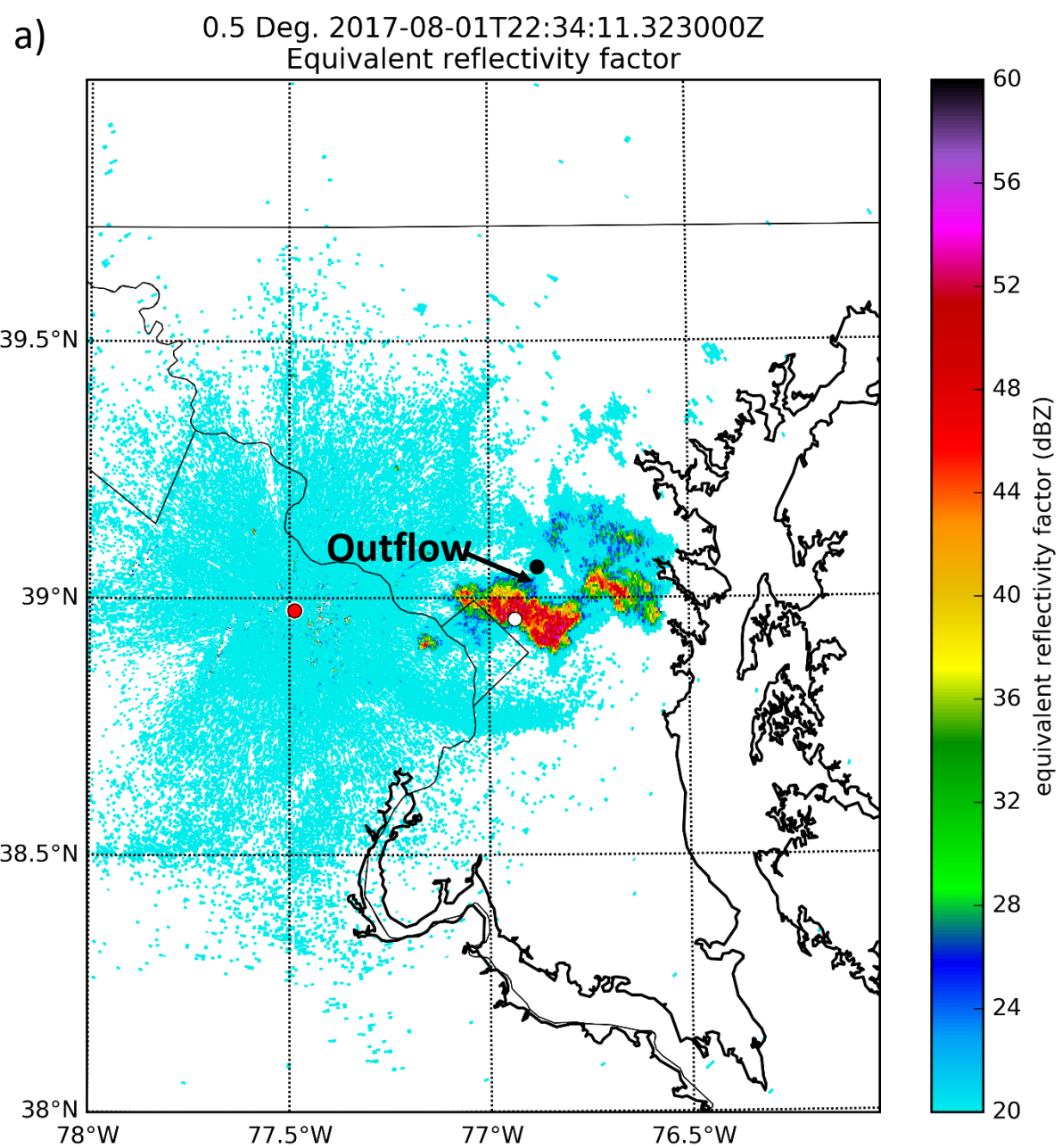
0.5 Deg. 2017-08-01T18:09:49.846000Z
Log differential reflectivity hv

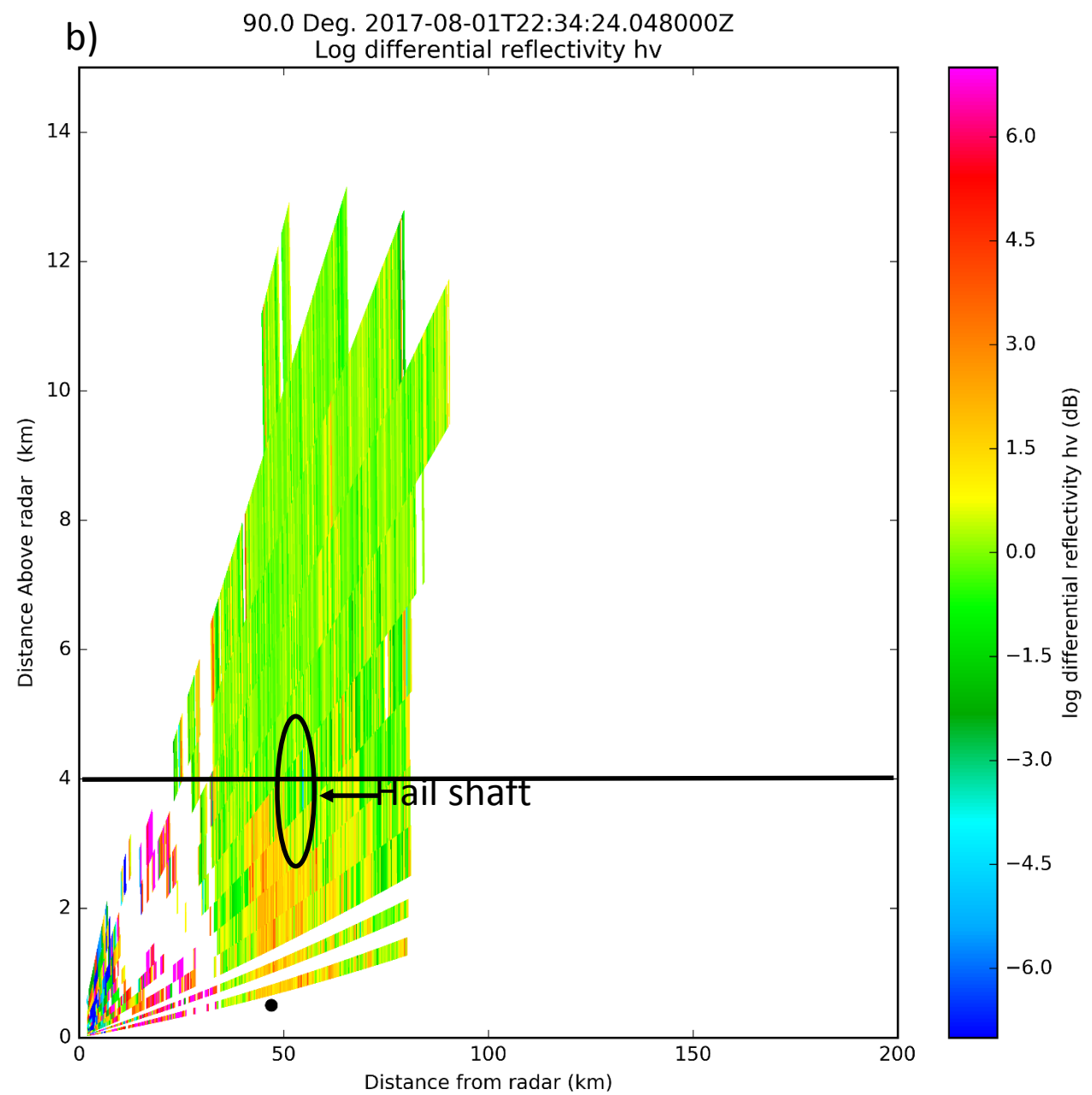
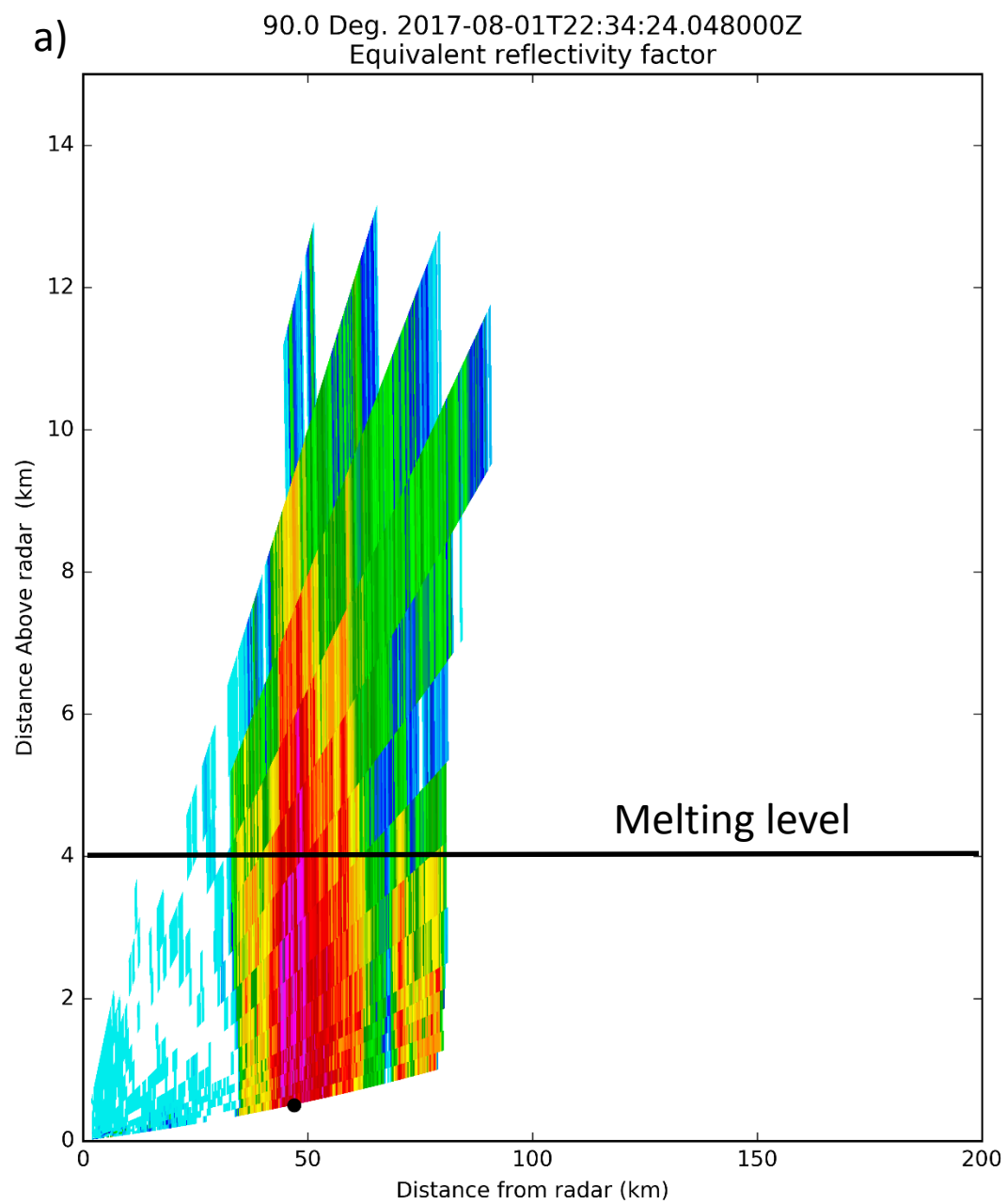
b)





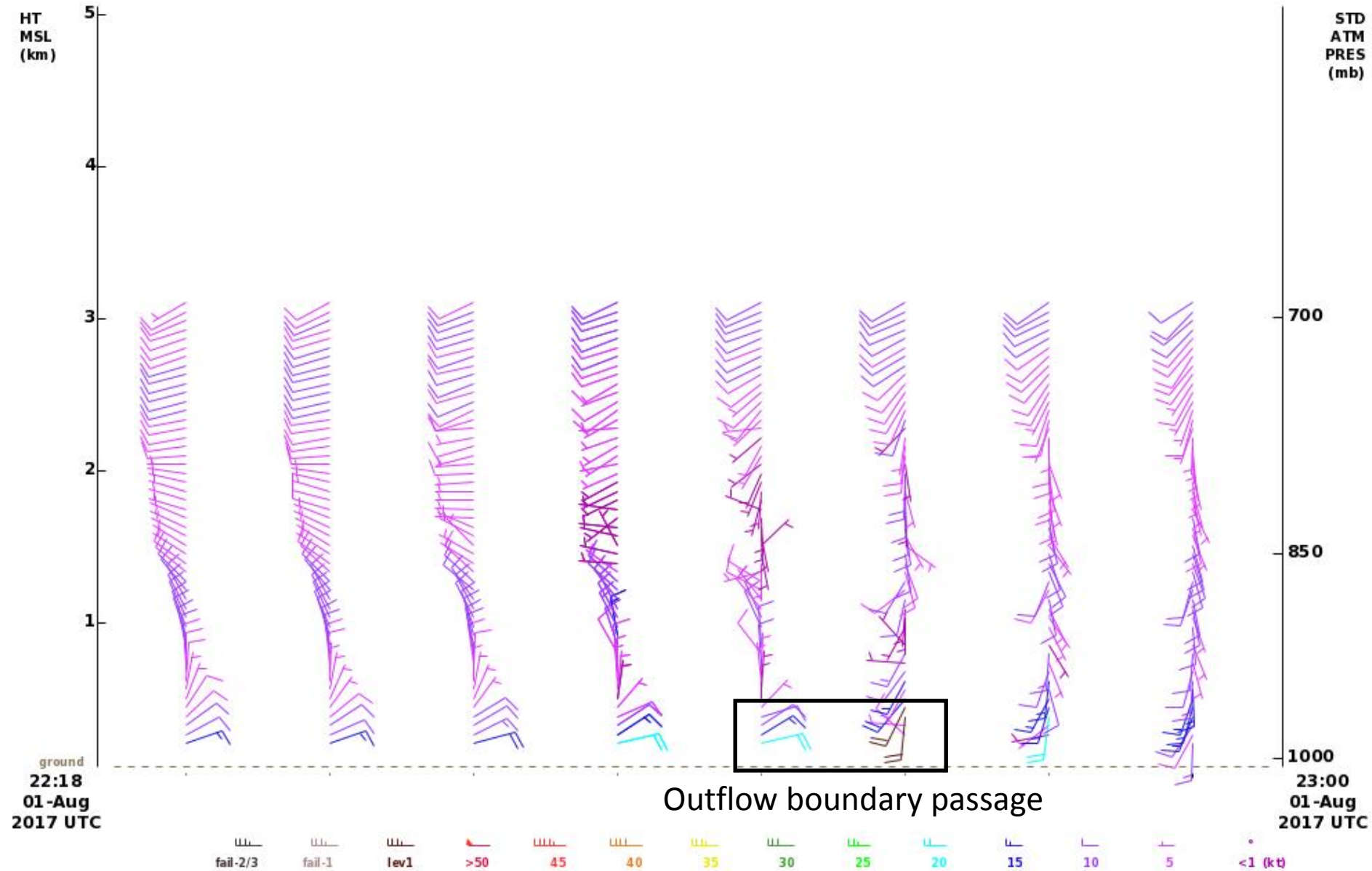


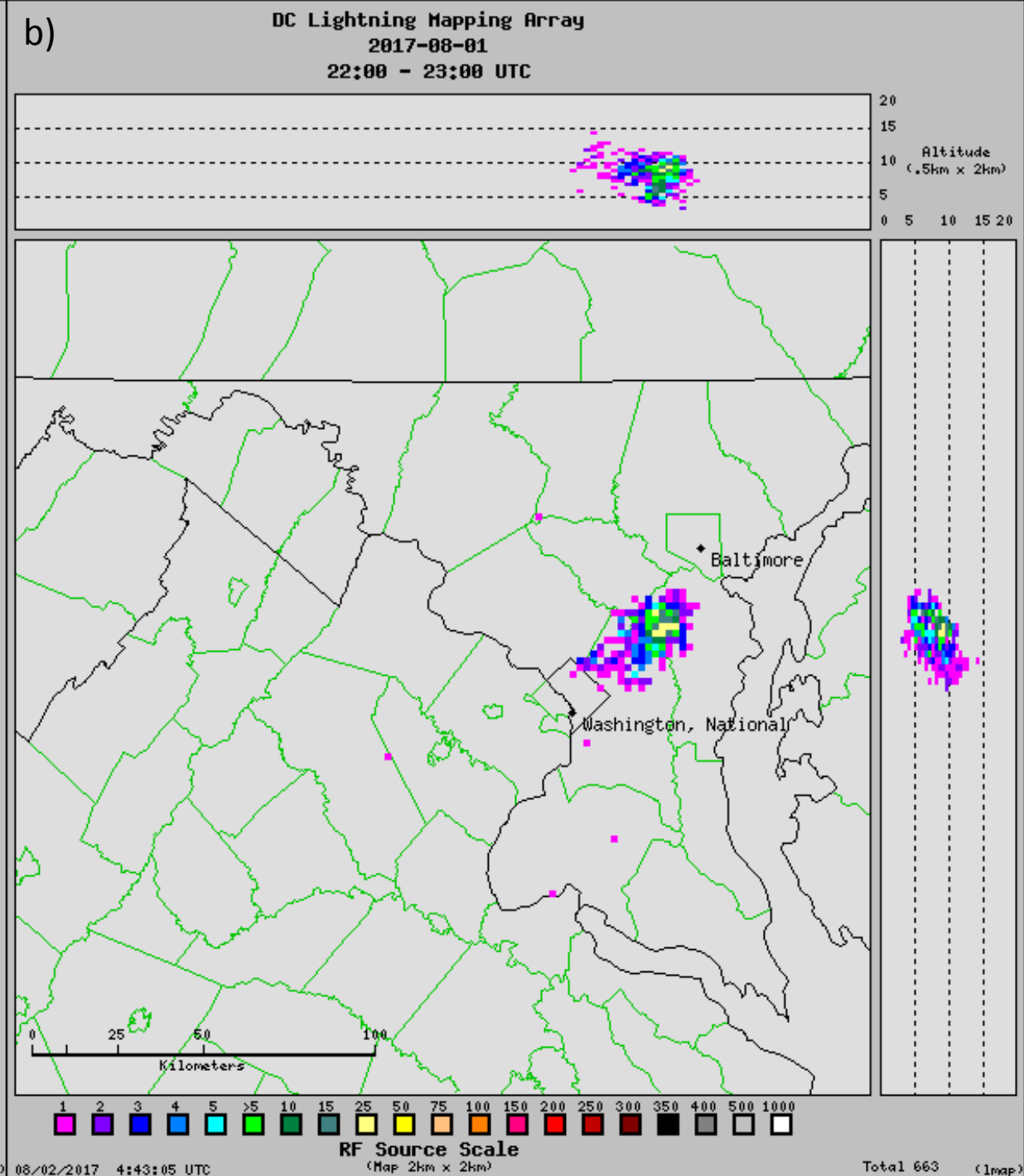
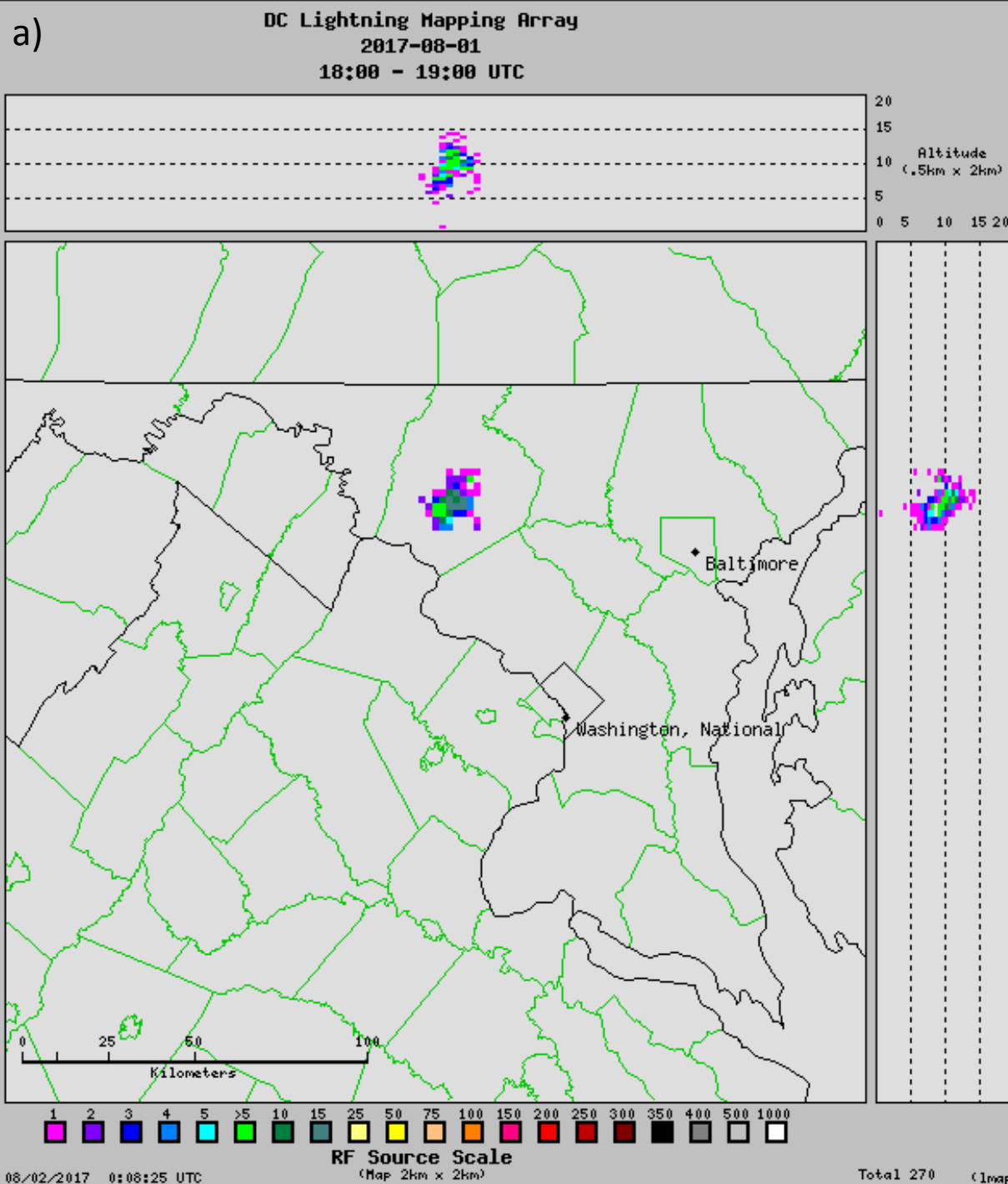






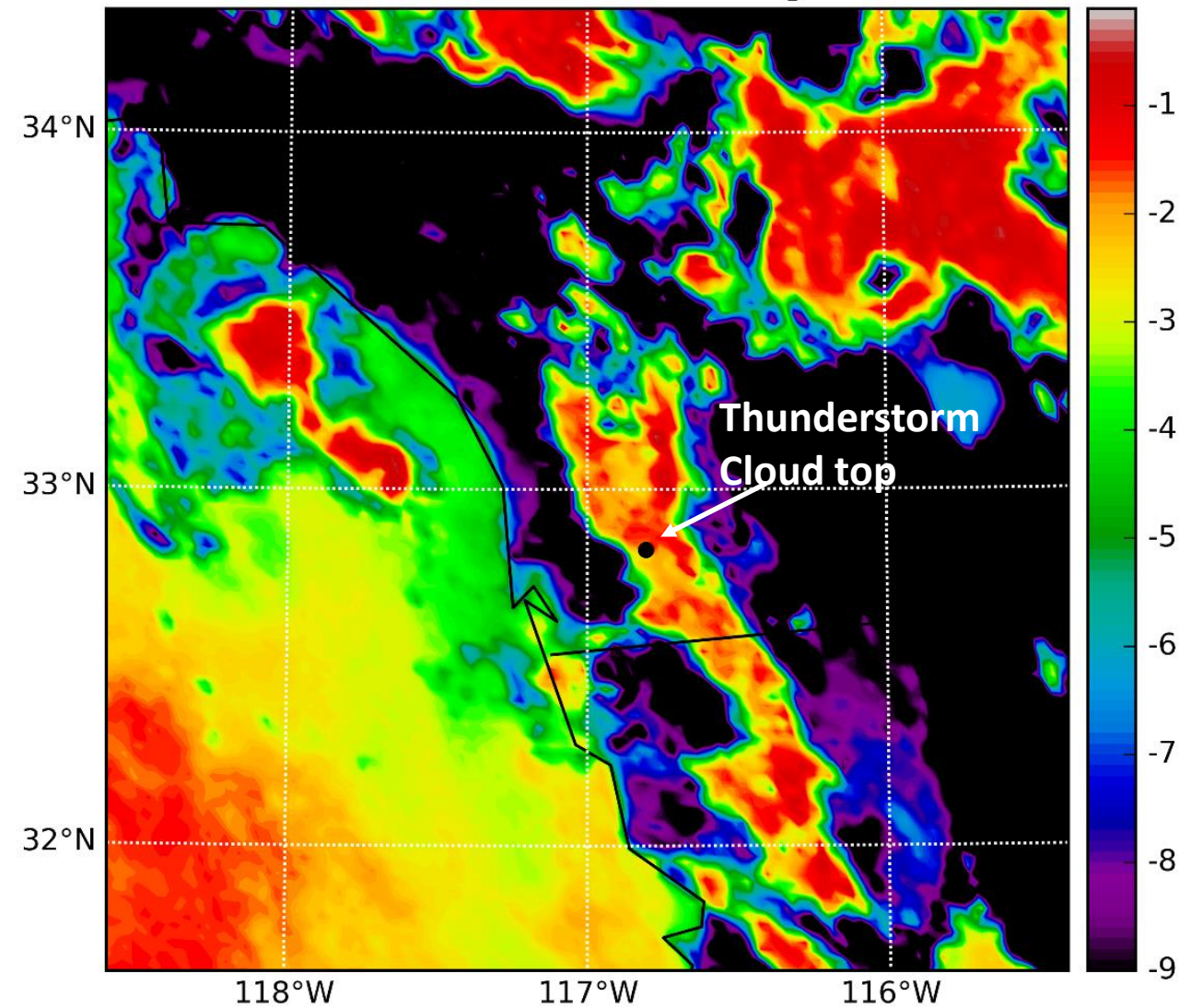
BLTMD Lat:39.06 Lon:-76.88 Elev:53m
WindSpeedDirection| Mode:194m | Res:6min | QC:LEVEL 1 OR BETTER
MARYLAND DEPARTMENT OF THE ENVIRONMENT





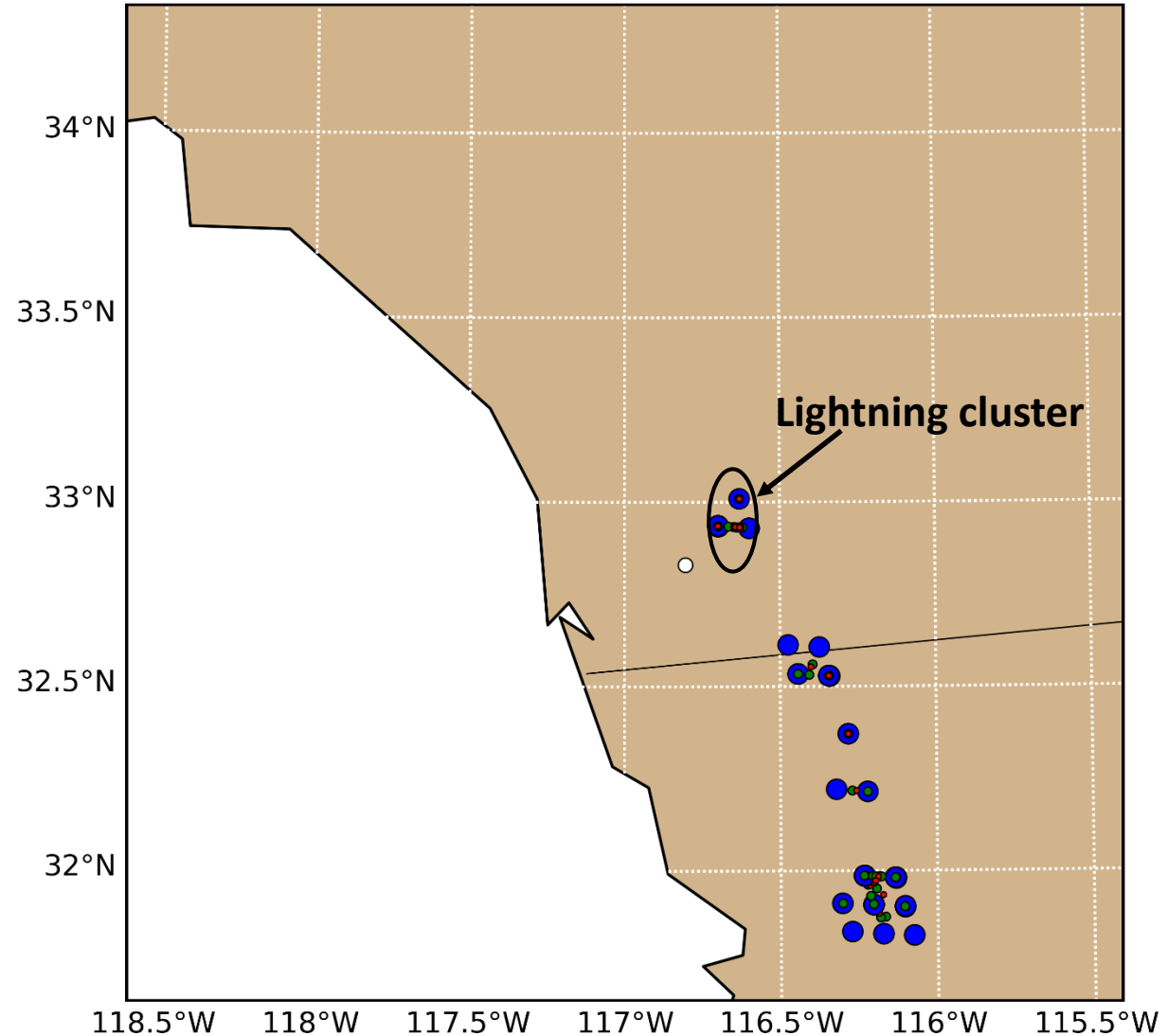
a)

GOES-16 IR BTD 2025 UTC 1 August 2017



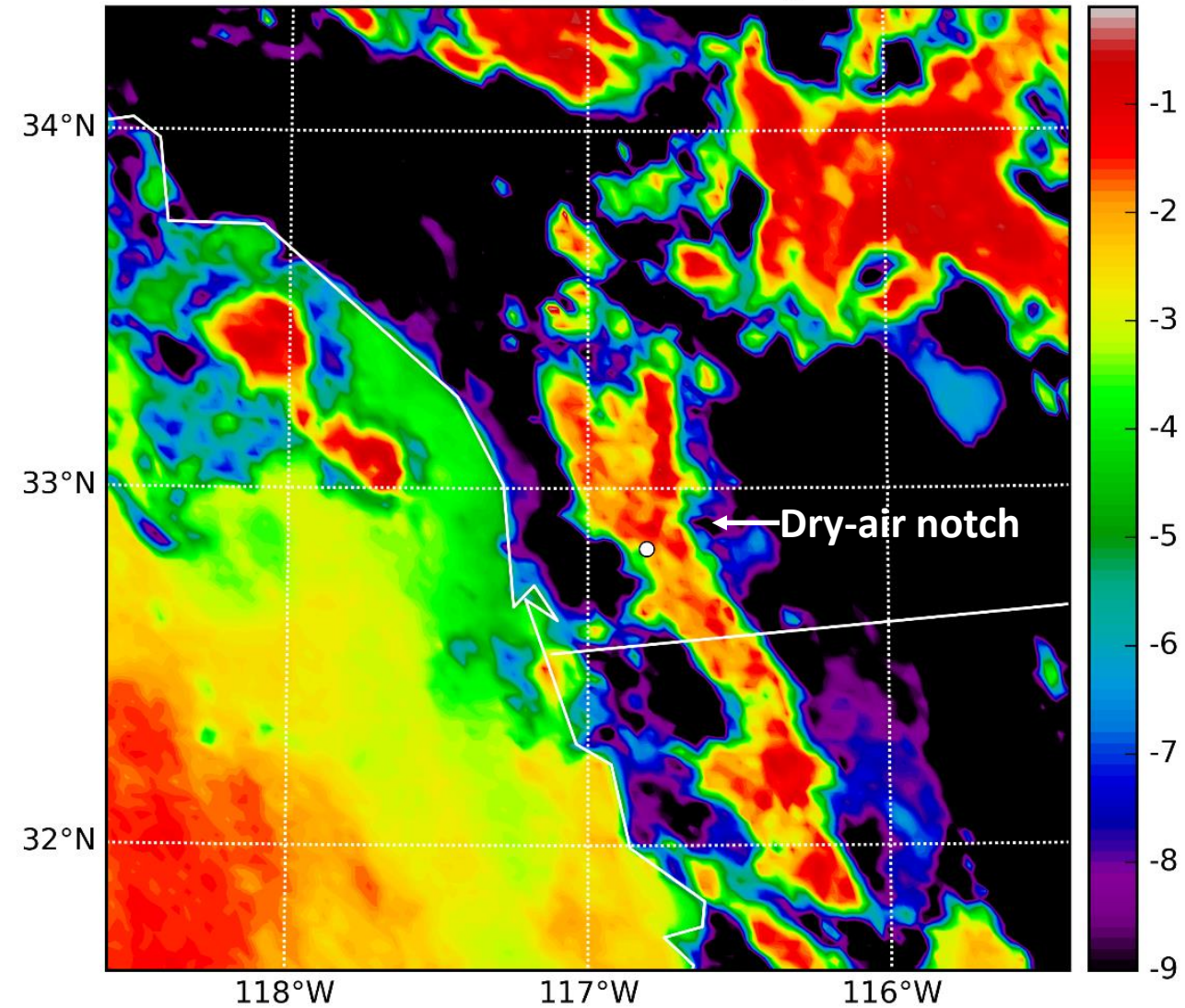
b)

GOES-16 GLM 2025 UTC 1 August 2017



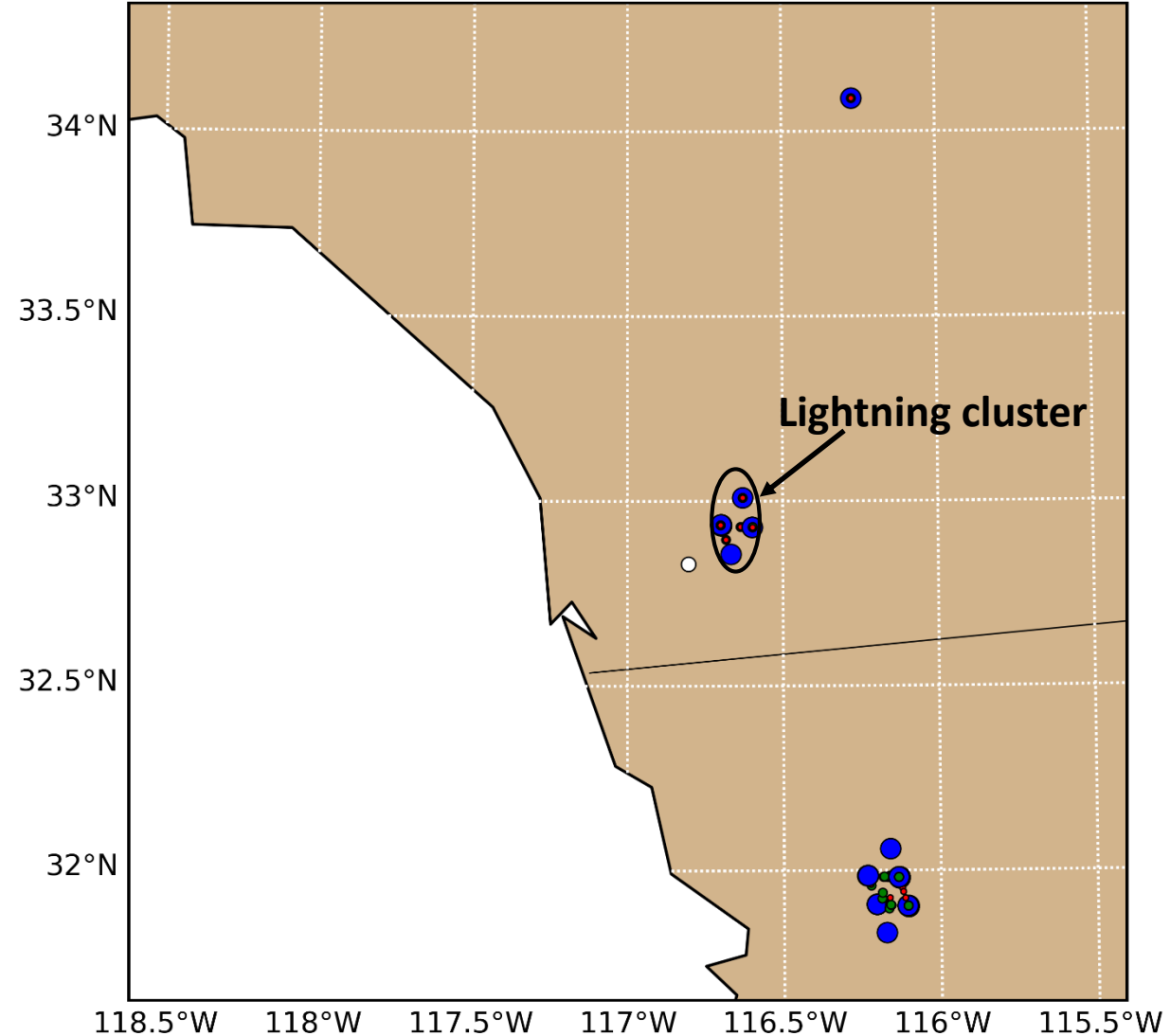
a)

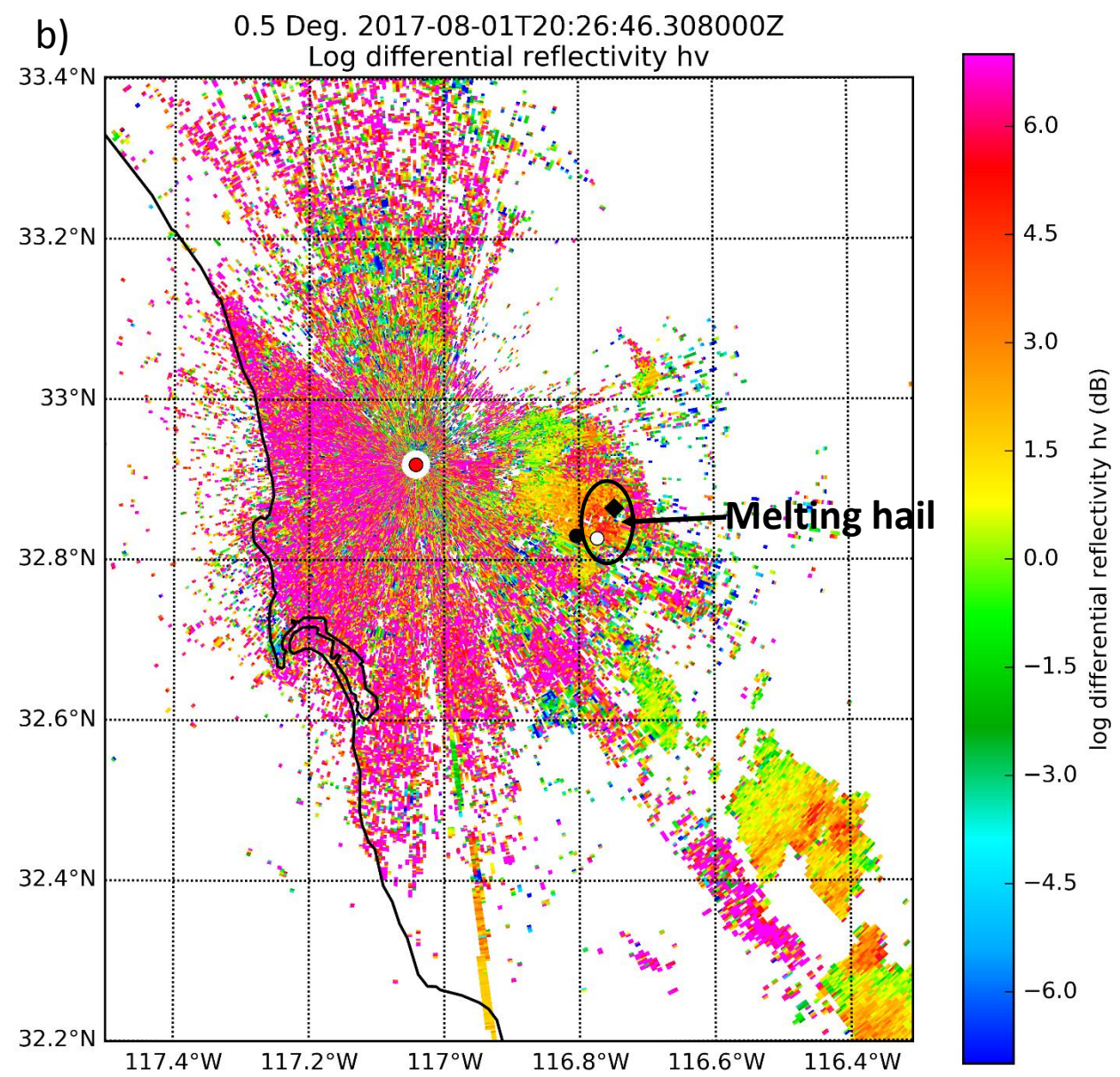
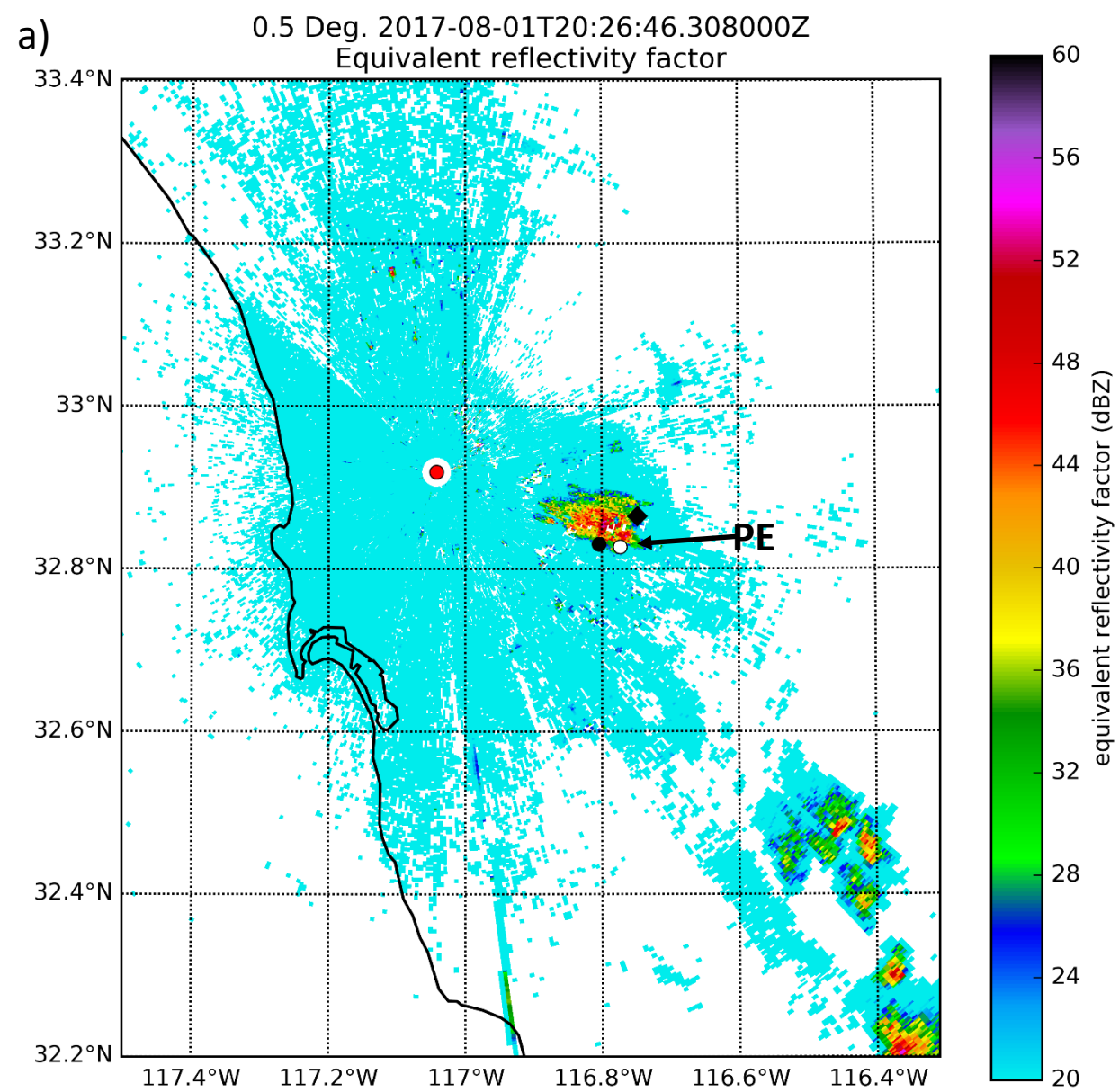
GOES-16 IR BTD 2030 UTC 1 August 2017

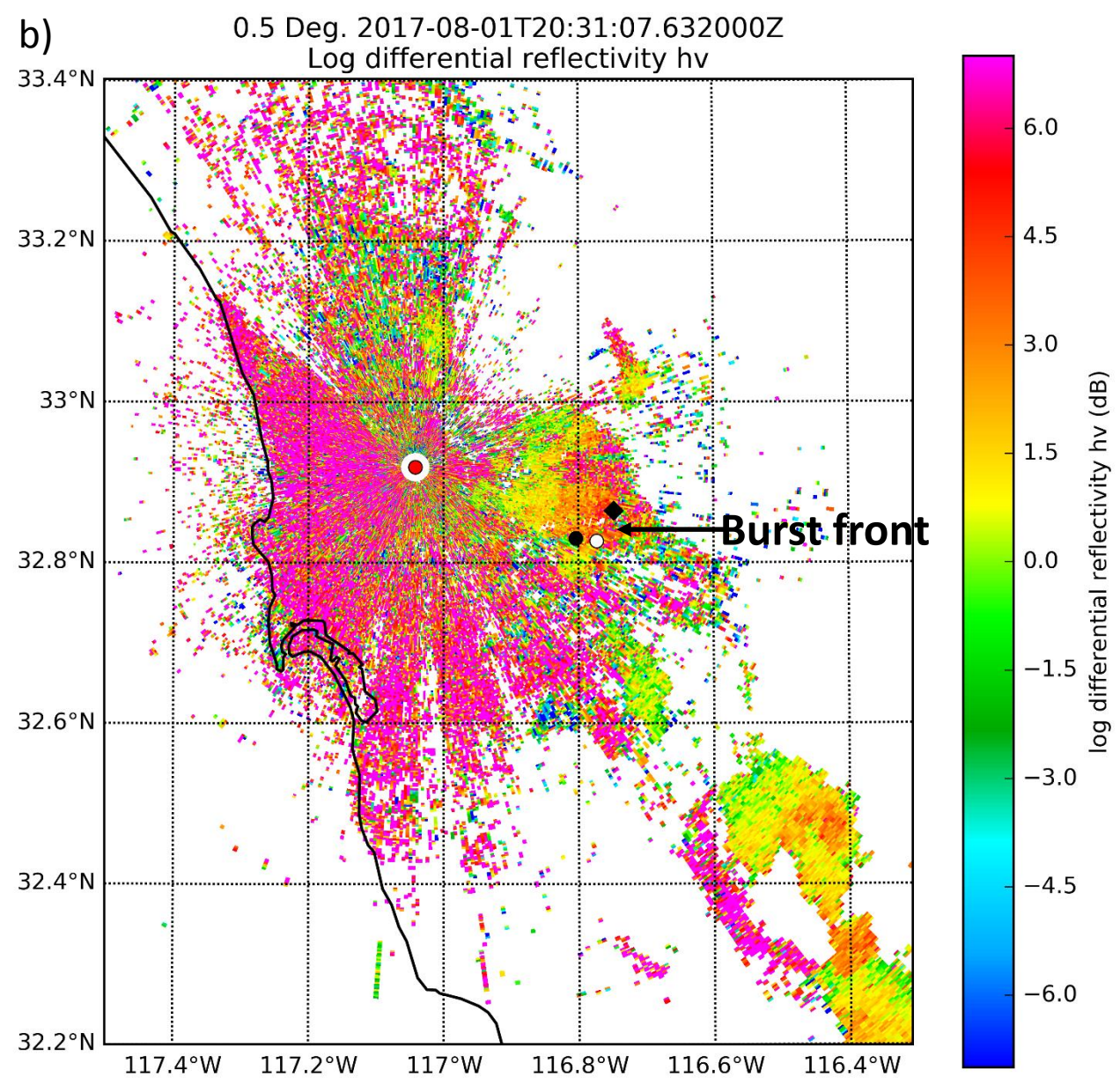
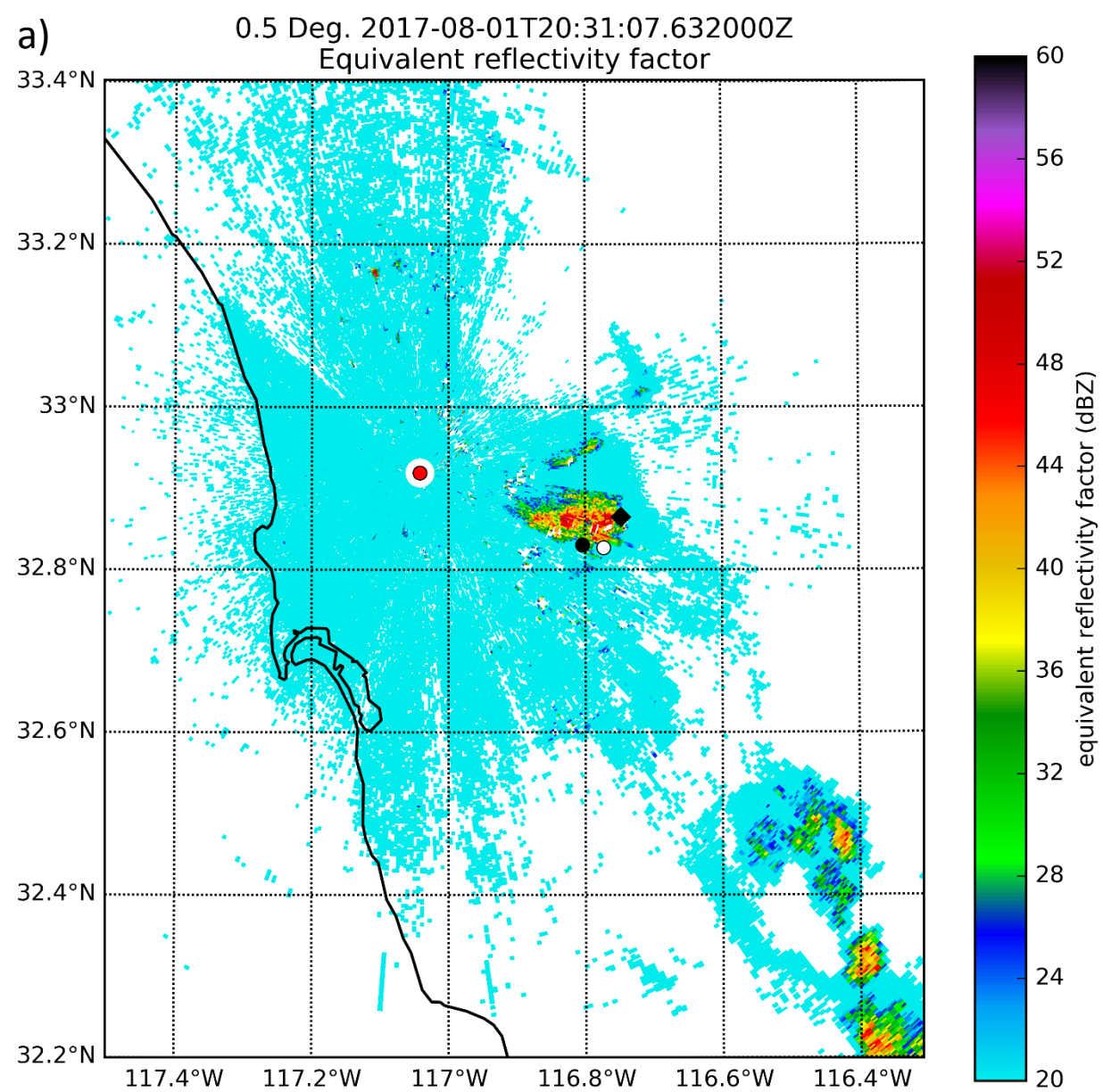


b)

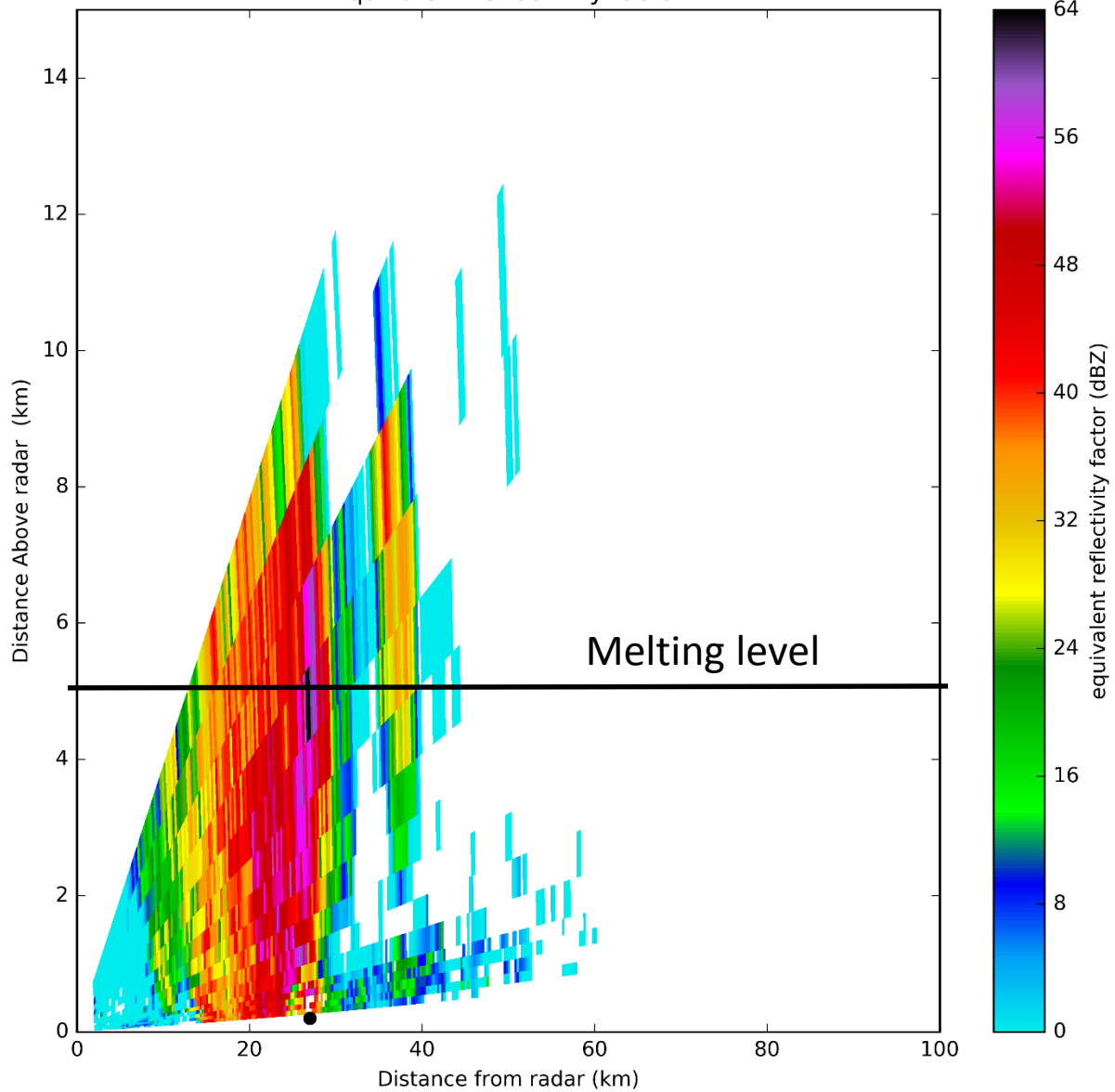
GOES-16 GLM 2030 UTC 1 August 2017







a)

107.0 Deg. 2017-08-01T20:27:02.108000Z
Equivalent reflectivity factor

b)

107.0 Deg. 2017-08-01T20:27:02.108000Z
Log differential reflectivity hv