

## **Appendix D-2**

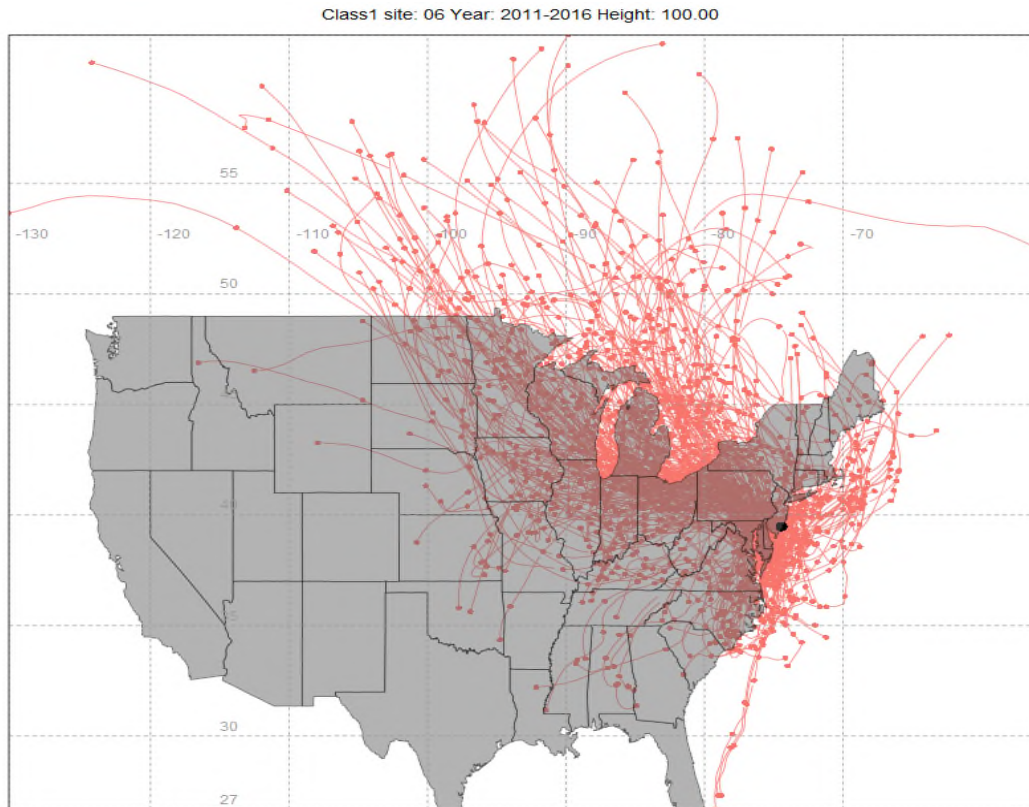
### **Part 1**

# **Area of Influence and HYSPLIT Graphics for VISTAS and Nearby Class I Areas**

## Table of Contents

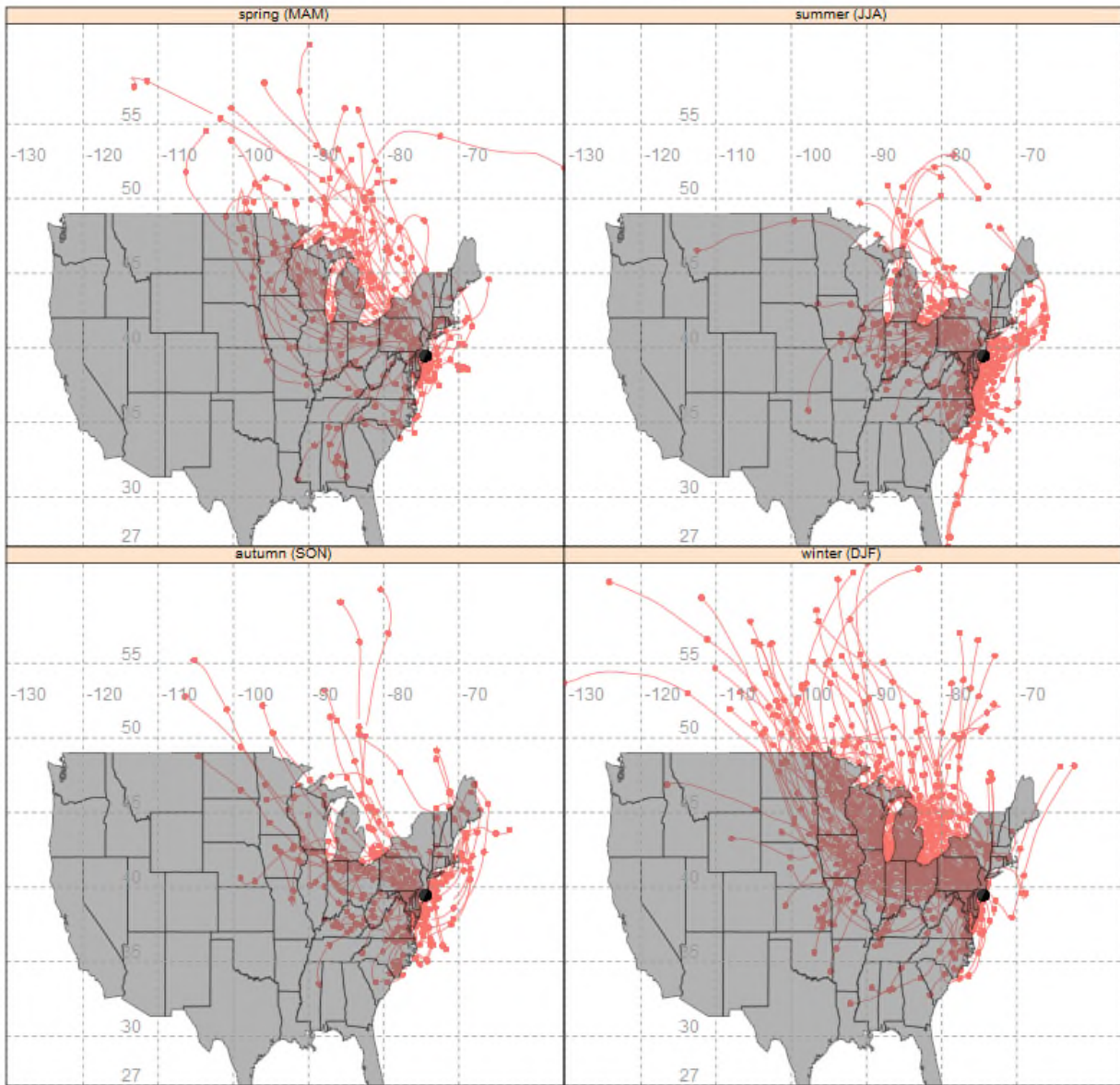
Brigantine Wilderness Area.....	3
Breton Wilderness Area.....	12
Caney Creek Wilderness Area.....	21
Chassahowitza Wilderness Area.....	30
Cohutta Wilderness Area.....	39
Dolly Sods Wilderness Area.....	48
Otter Creek Wilderness Area.....	57
Everglades National Park.....	66
Great Smoky Mountains National Park.....	75
Joyce Kilmer/Slickrock Wilderness Area.....	84
Hercules Glade Wilderness Area.....	93
James River Face Wilderness Area.....	102
Linville Gorge Wilderness Area.....	111
Mammoth Cave National Park.....	120
Mingo Wilderness Area.....	129
Okefenokee Wilderness Area.....	138
Wolf Island Wilderness Area.....	147
Cape Romain Wilderness Area.....	156
St Marks Wilderness Area.....	165
Shenandoah National Park.....	174
Shining Rock Wilderness Area.....	183
Sipsey Wilderness Area.....	192
Swanquarter Wilderness Area.....	201
Upper Buffalo Wilderness Area.....	210

## Brigantine Wilderness Area

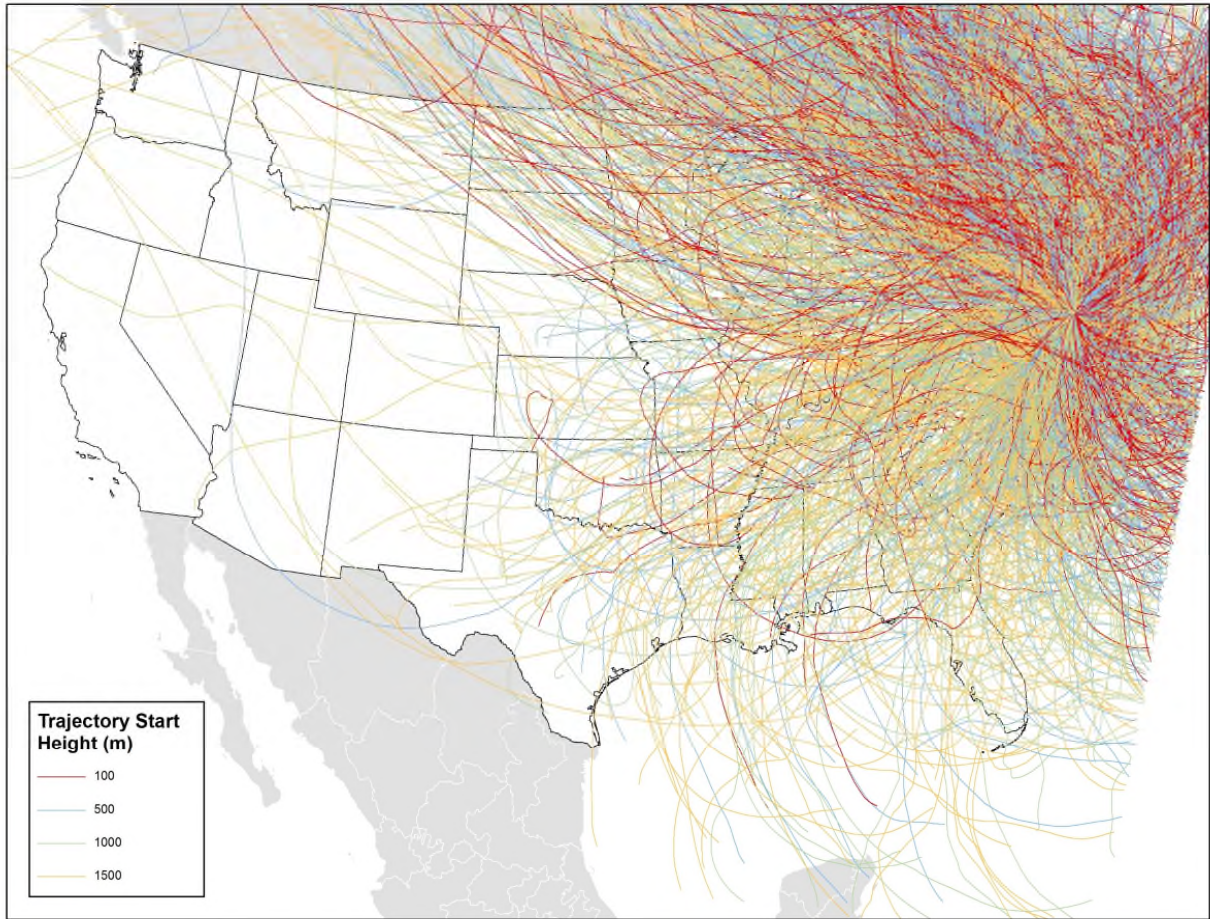


**Figure 1: 100-Meter Back Trajectories for the 20% Most Impaired Visibility Days (2011-2016), from Brigantine Wilderness Area**

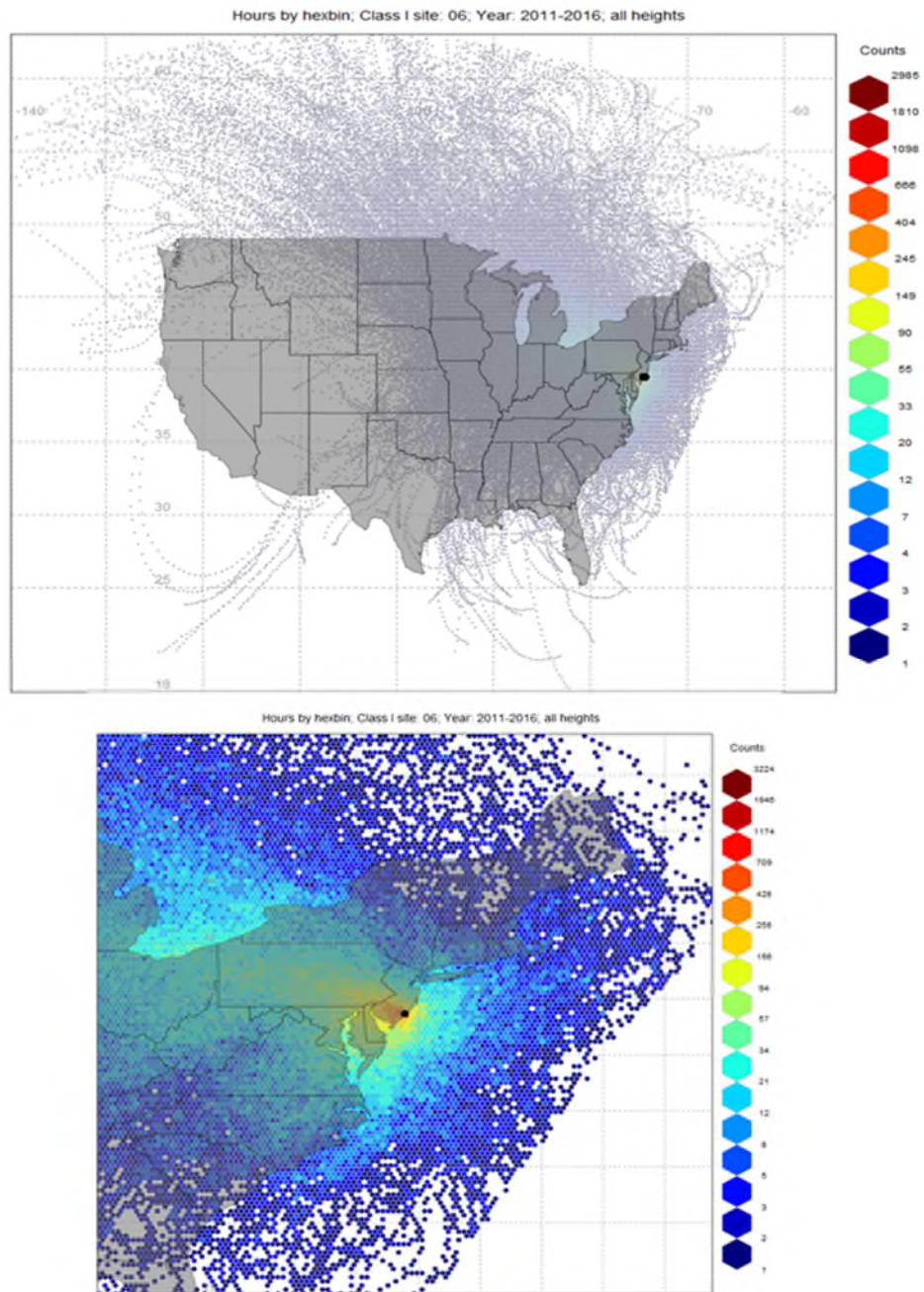
Class1 site: 06 Year: 2011-2016 Height: 100.00



**Figure 2: 100-Meter Back Trajectories by Season for the 20% Most Impaired Visibility Days (2011-2016) from Brigantine Wilderness Area**



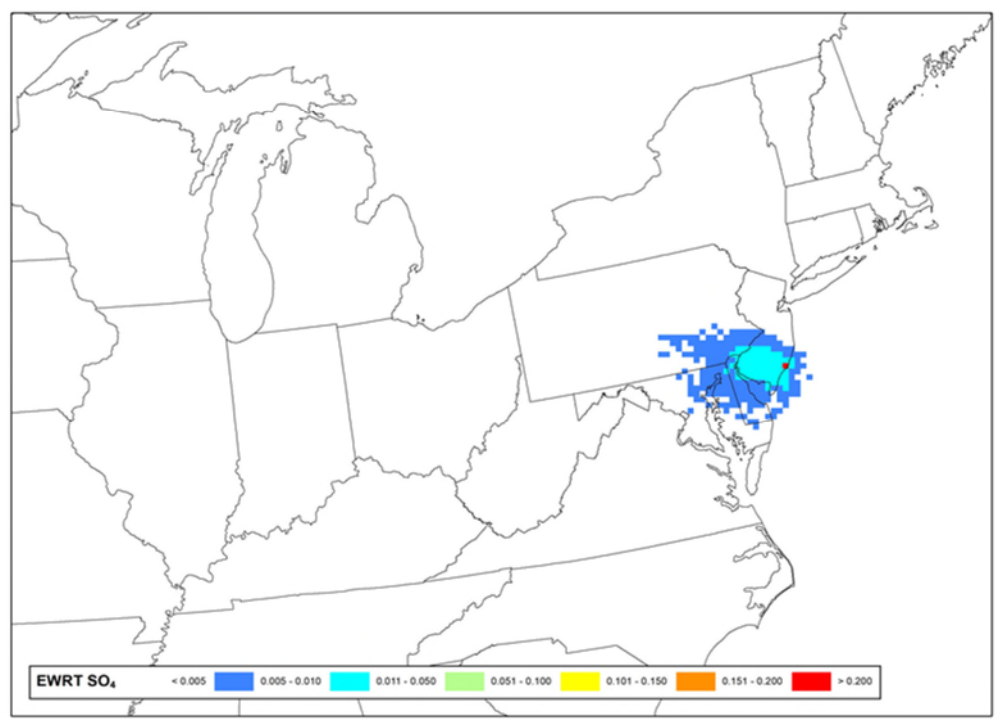
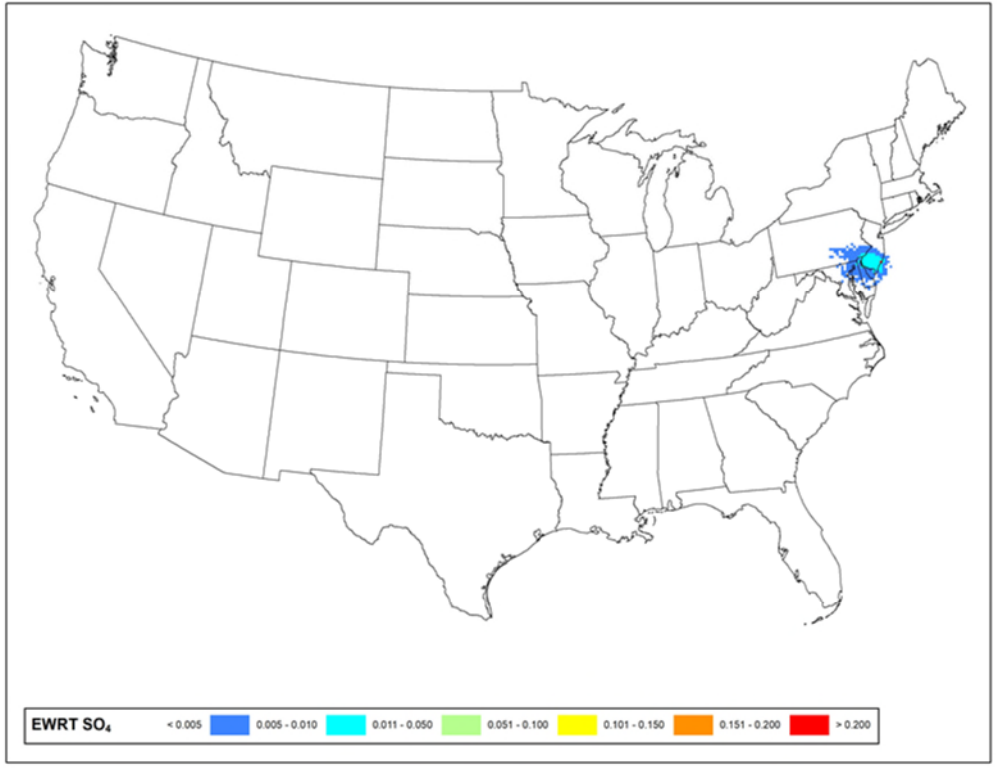
**Figure 3: 100-Meter, 500-Meter, 1000-Meter, and 1500-Meter Back Trajectories for the 20% Most Impaired Days (2011-2016) from Brigantine Wilderness Area**



**Figure 4: Residence Time (Counts per 12km Modeling Grid Cell) for Brigantine Wilderness Area – Full View (top) and Class I Zoom (bottom)**

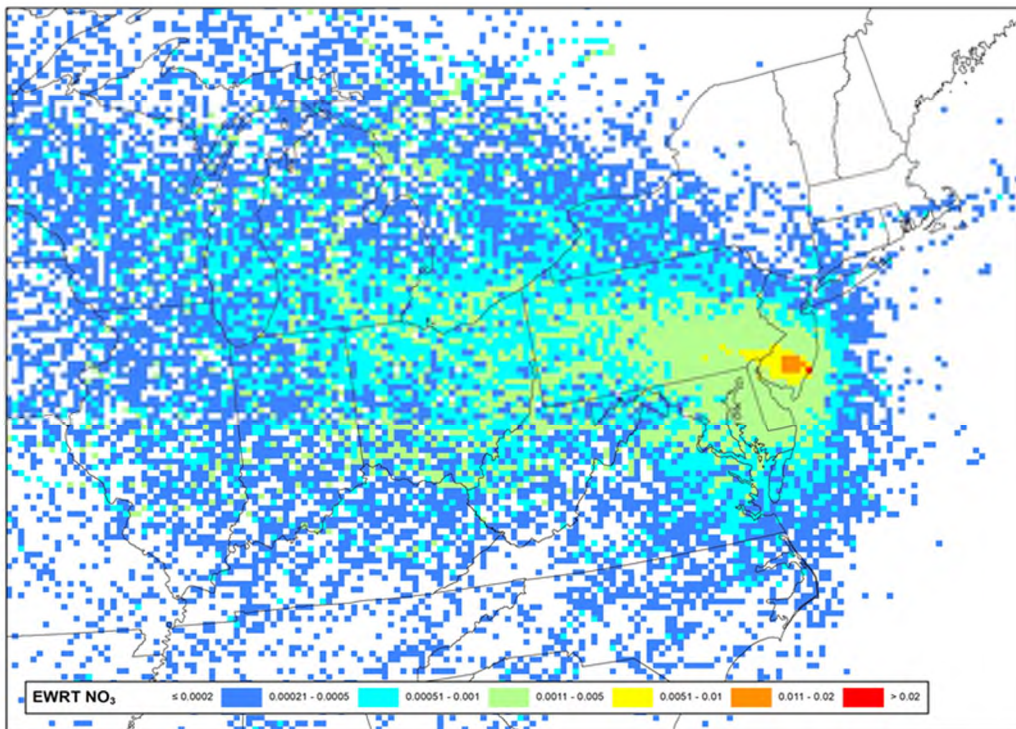
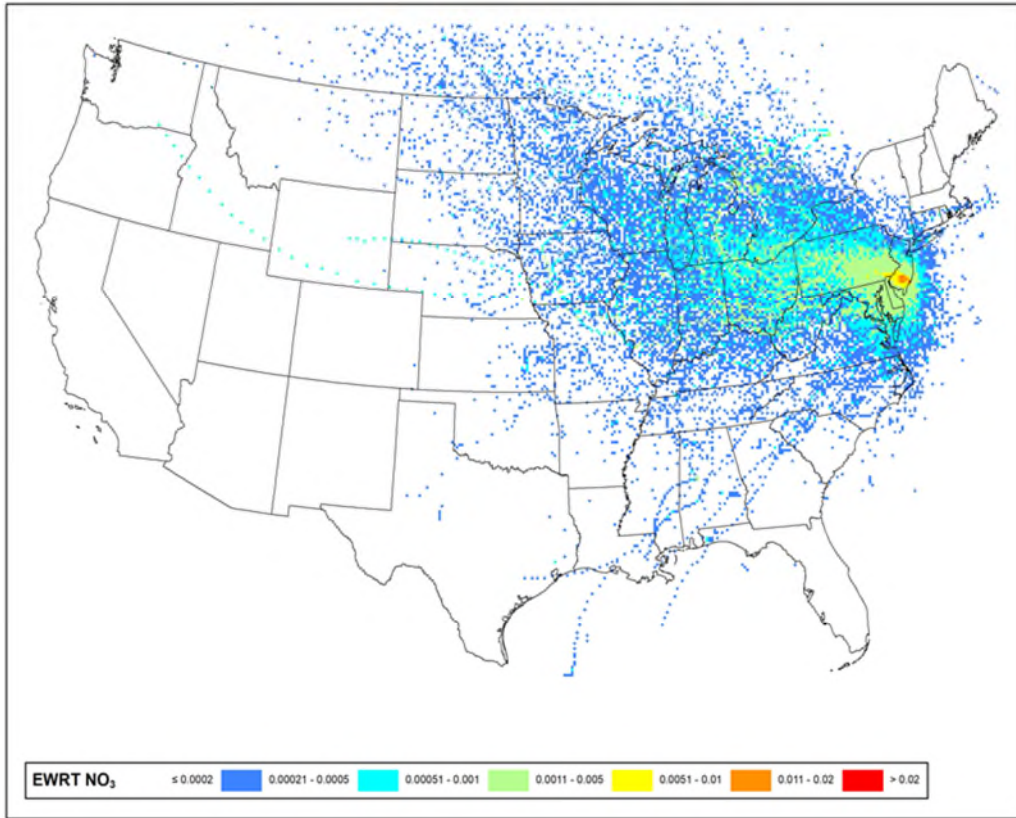


**Figure 5: Residence Time (% of Total Counts per 12km Modeling Grid Cell for Brigantine Wilderness Area – Full View (top) and Class I Zoom (bottom)**

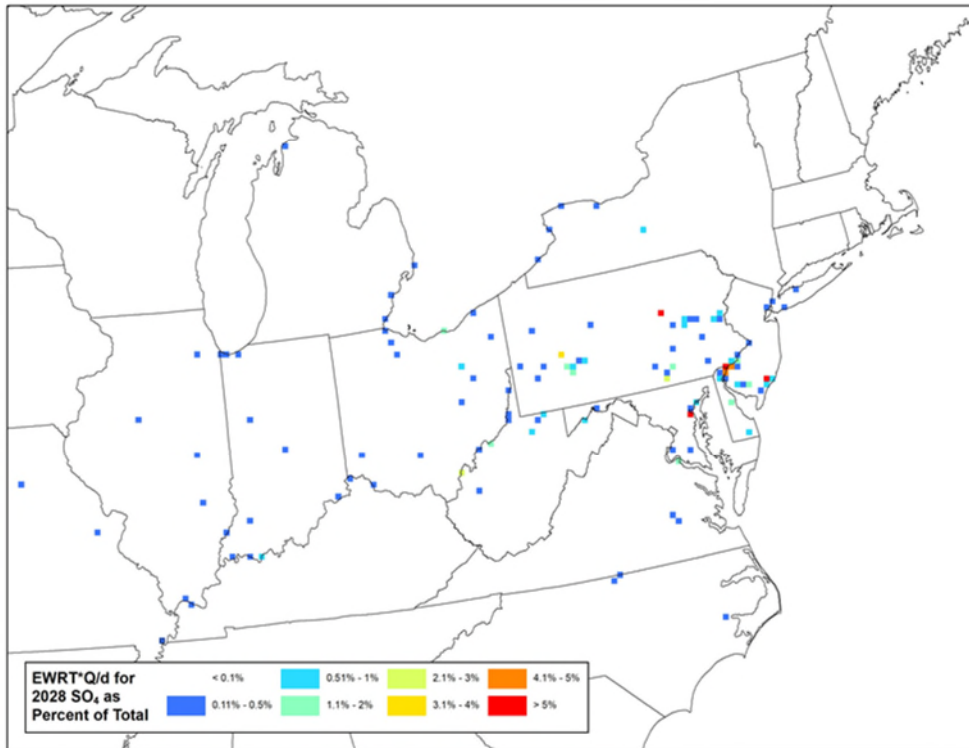
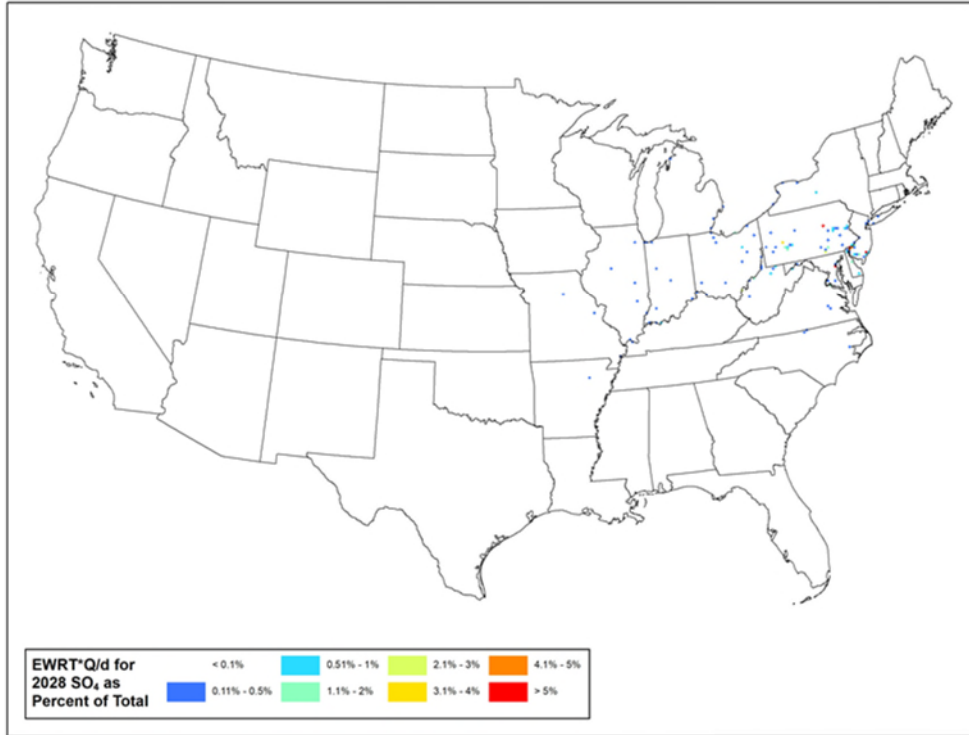


**Figure 6: Sulfate Extinction Weighted Residence Time (Sulfate EWRT per 12km Modeling Grid Cell) for Brigantine Wilderness Area - Full View (top) and Class I Zoom (bottom)**

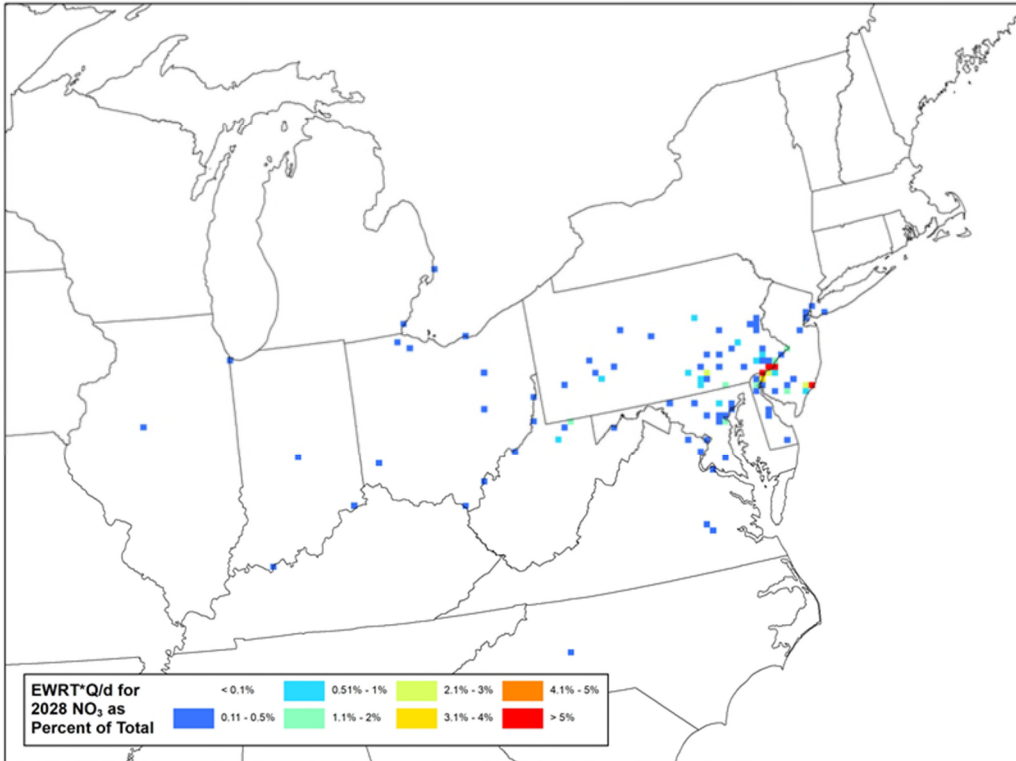
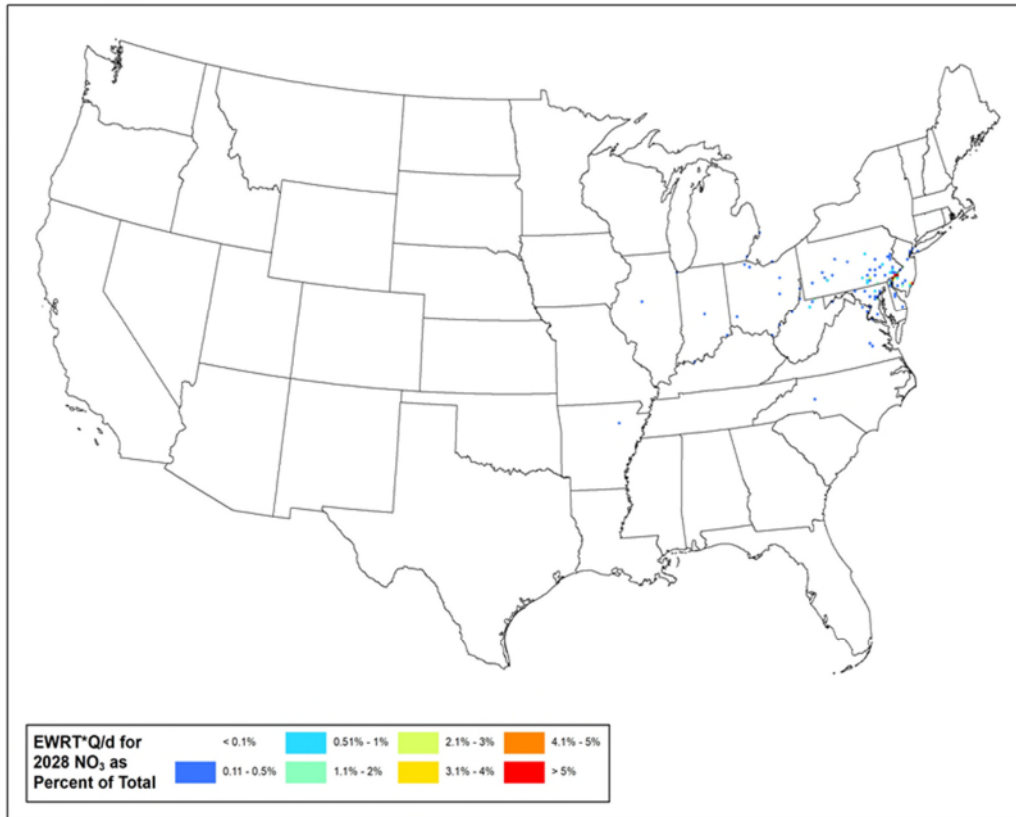




**Figure 7: Nitrate Extinction Weighted Residence Time (Nitrate EWRT per 12-km Modeling Grid Cell) for Brigantine Wilderness Area - Full View (top) and Class I Zoom (bottom)**

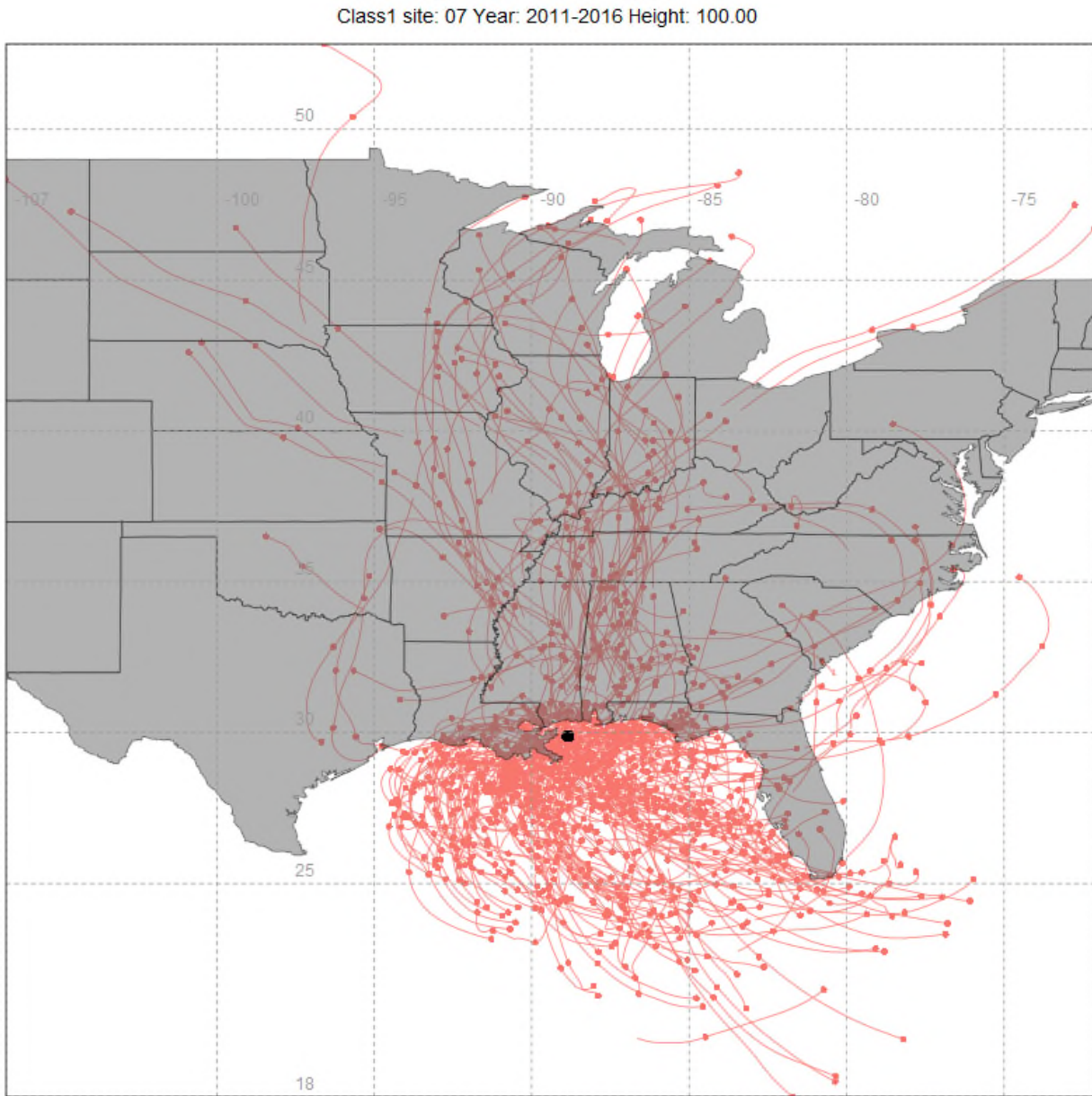


**Figure 8: Sulfate Emissions/Distance Extinction Weighted Residence Time (% of Total Q/d\*EWRT per 12km Modeling Grid Cell) for Brigantine Wilderness Area – Full View (top) and Class I Zoom (bottom)**



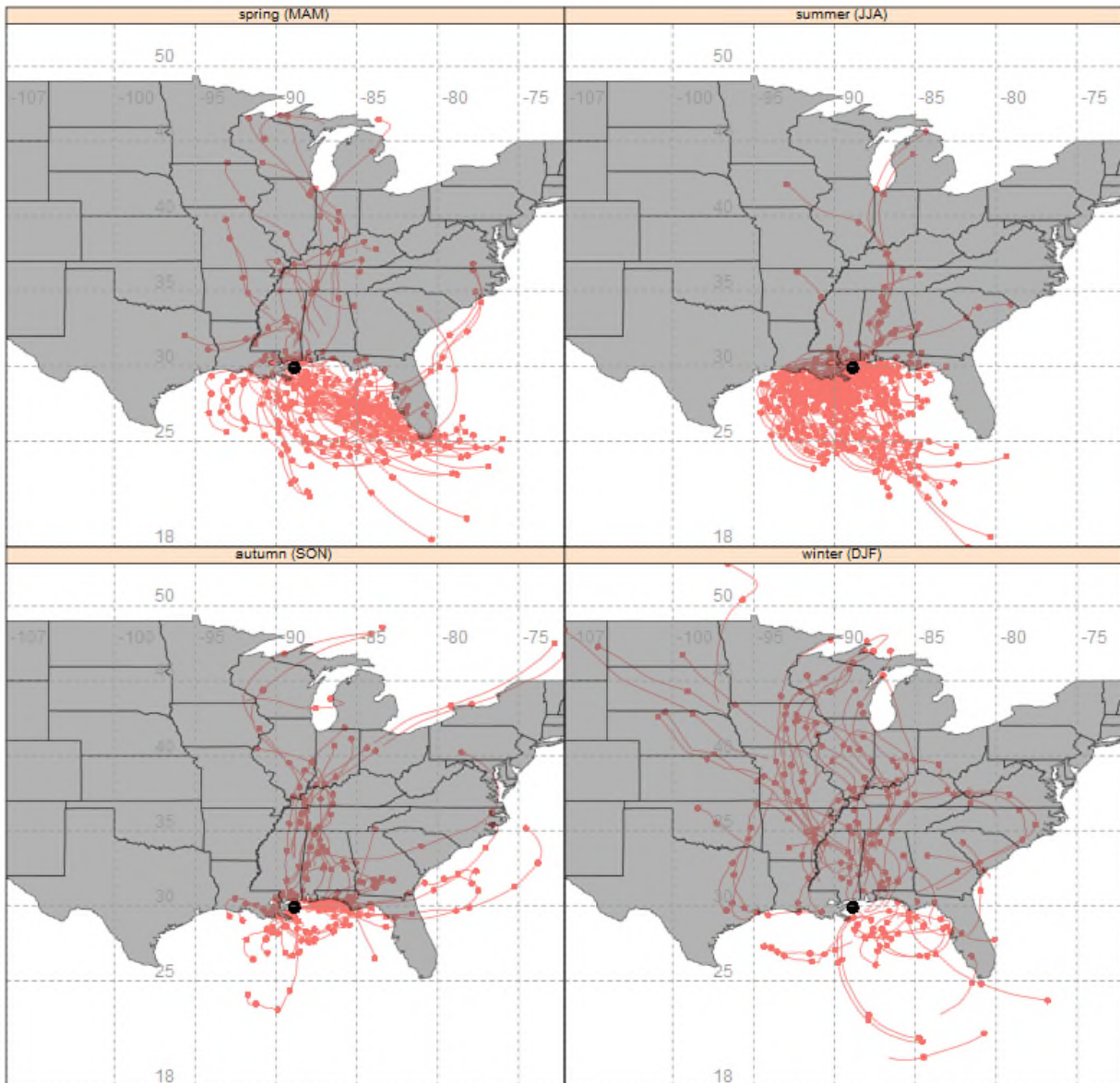
**Figure 9: Nitrate Emissions/Distance Extinction Weighted Residence Time (% of Total Q/d\*EWRT per 12km Modeling Grid Cell) for Brigantine Wilderness Area – Full View (top) and Class I Zoom (bottom)**

# Breton Wilderness Area

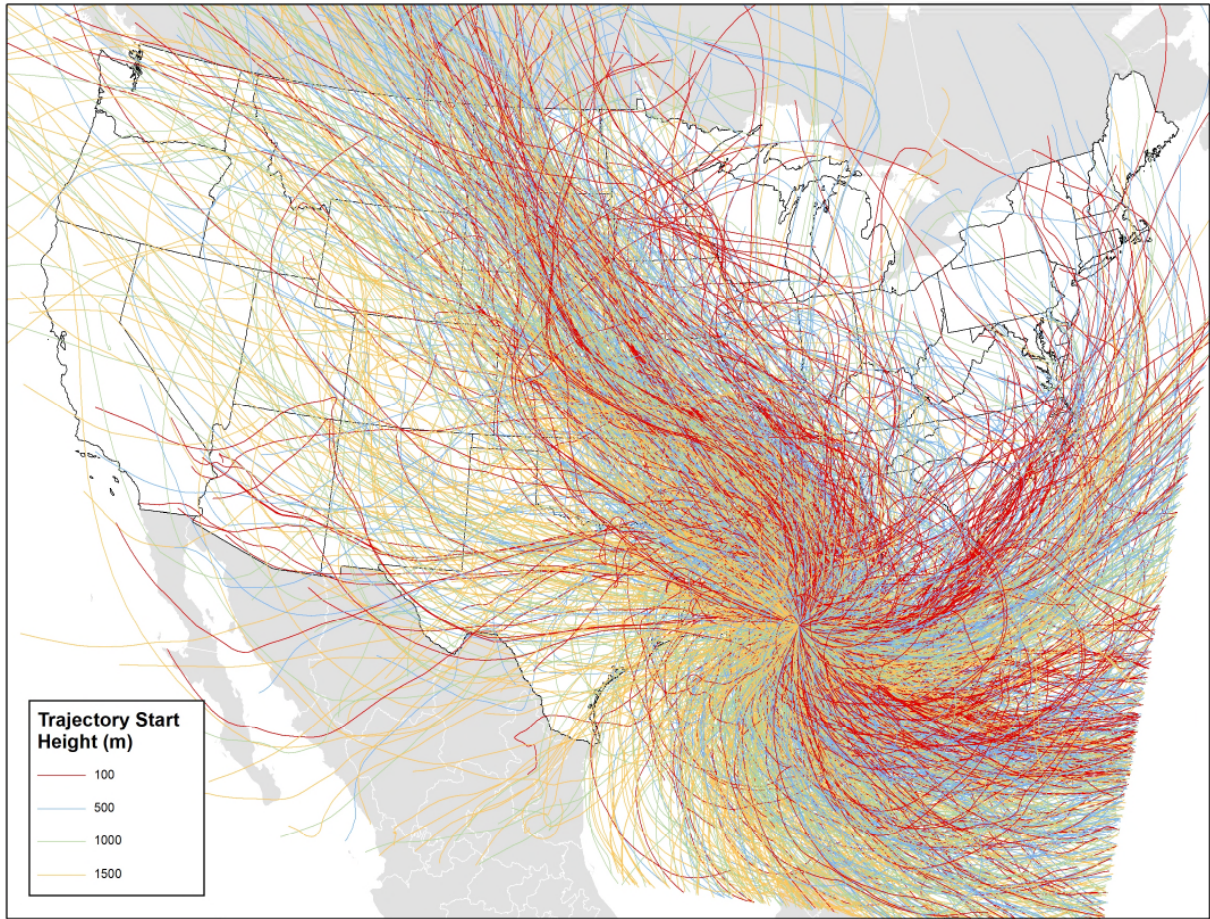


**Figure 1: 100-Meter Back Trajectories for the 20% Most Impaired Visibility Days (2011-2016), from Breton Wilderness Area**

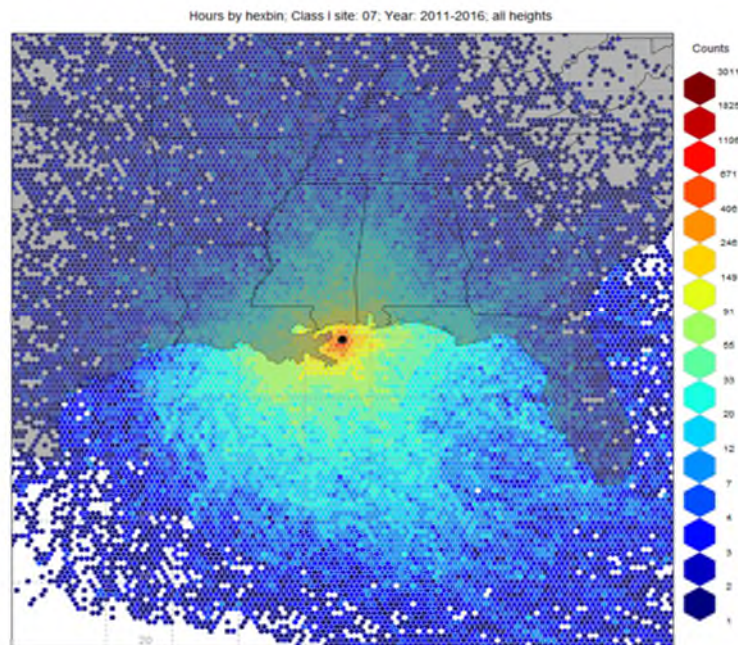
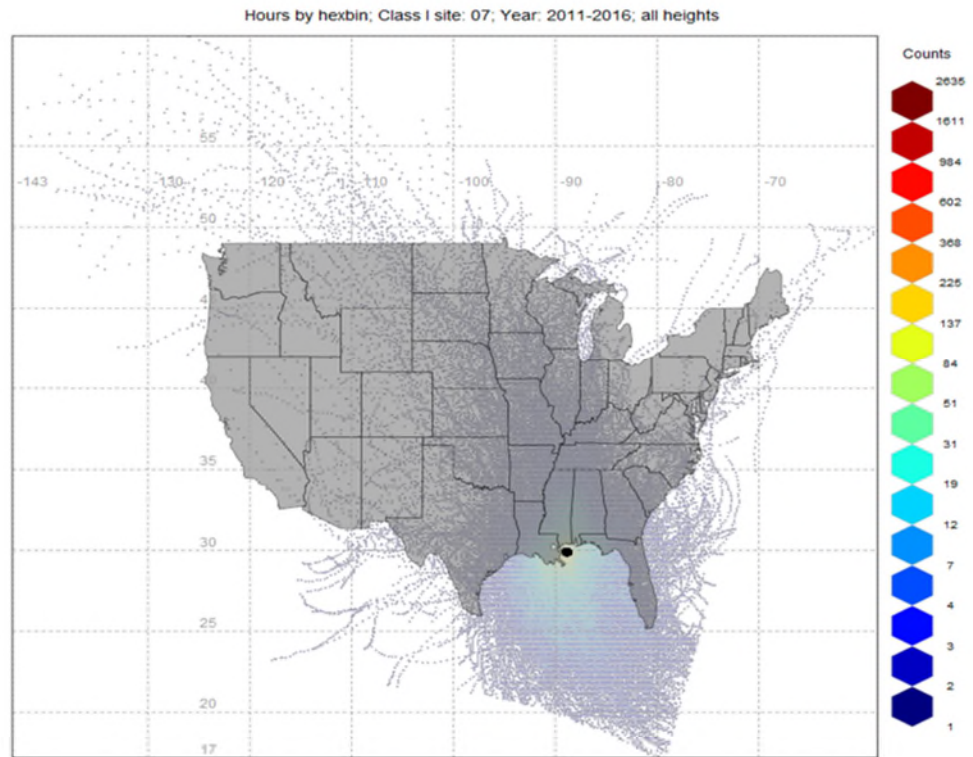
Class1 site: 07 Year: 2011-2016 Height: 100.00



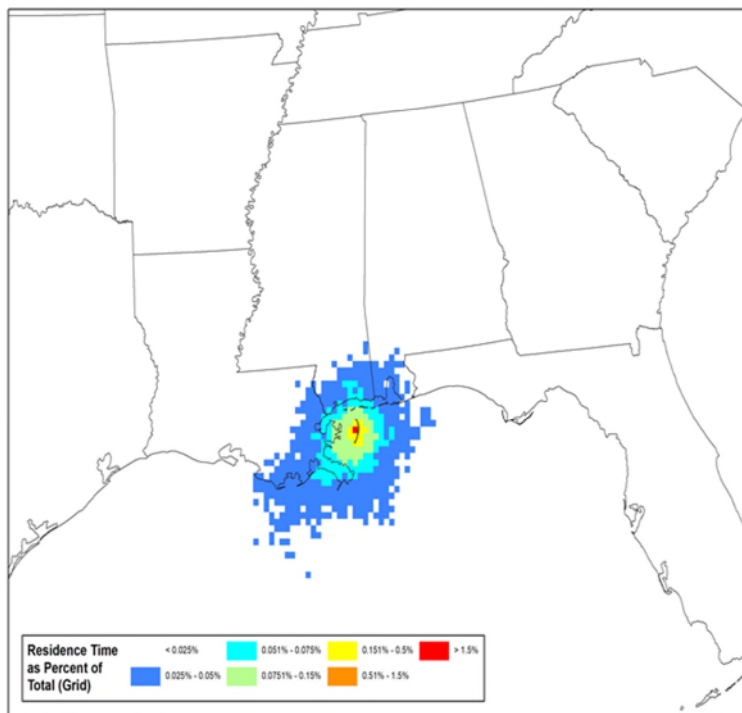
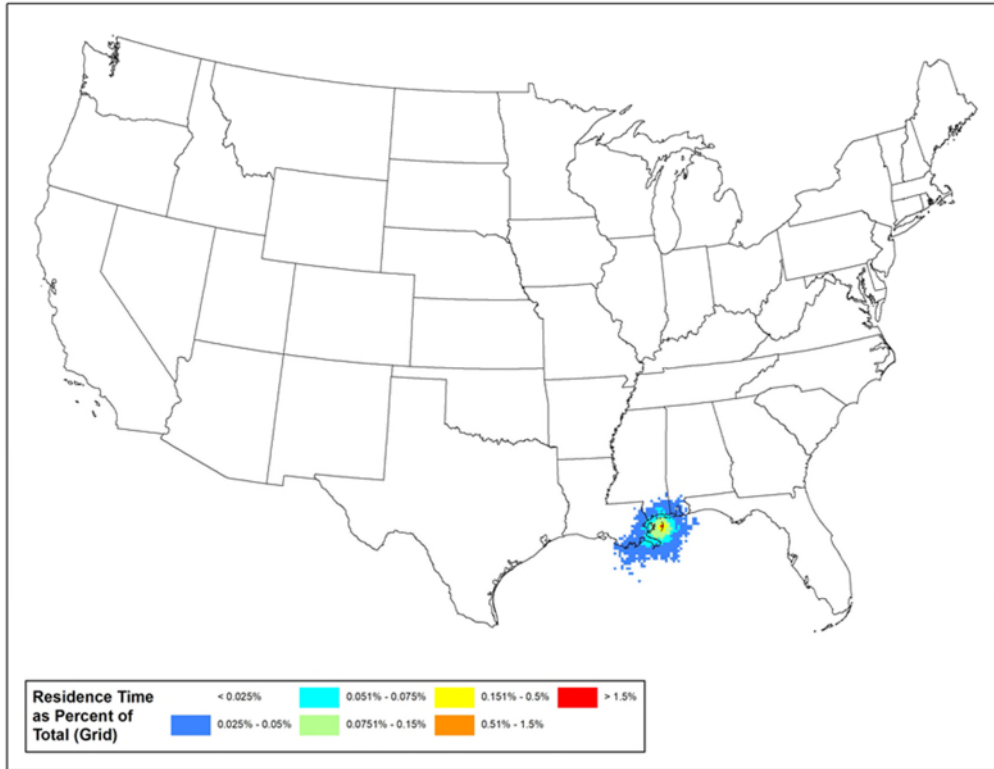
**Figure 2: 100-Meter Back Trajectories by Season for the 20% Most Impaired Visibility Days (2011-2016) from Breton Wilderness Area**



**Figure 3: 100-Meter, 500-Meter, 1000-Meter, and 1500-Meter Back Trajectories for the 20% Most Impaired Days (2011-2016) from Breton Wilderness Area**

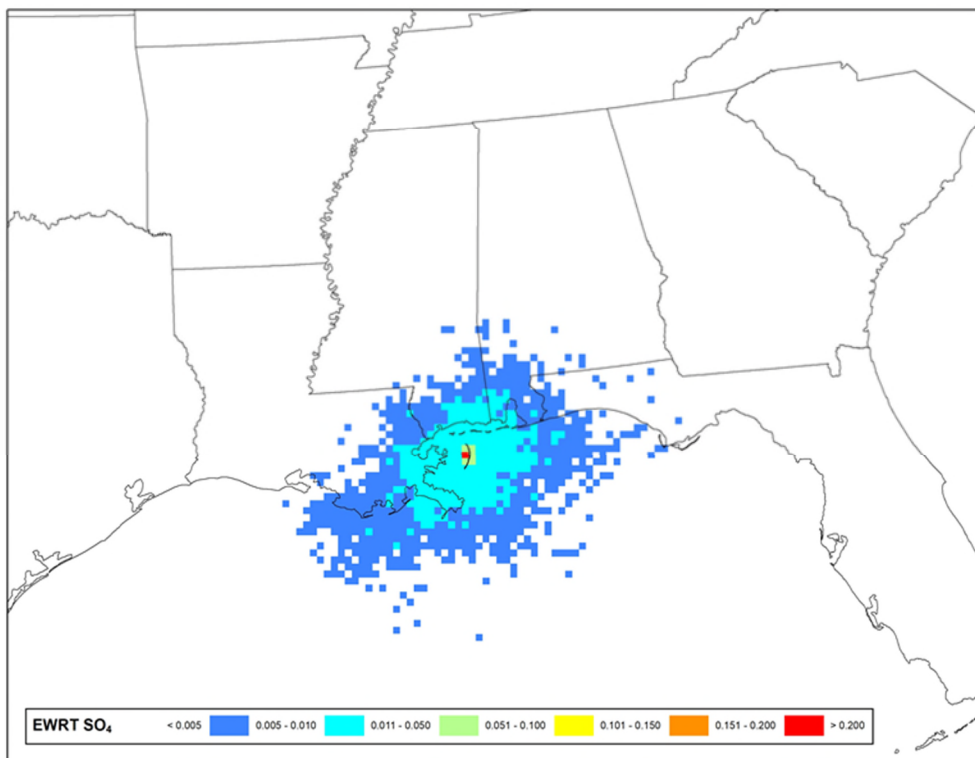
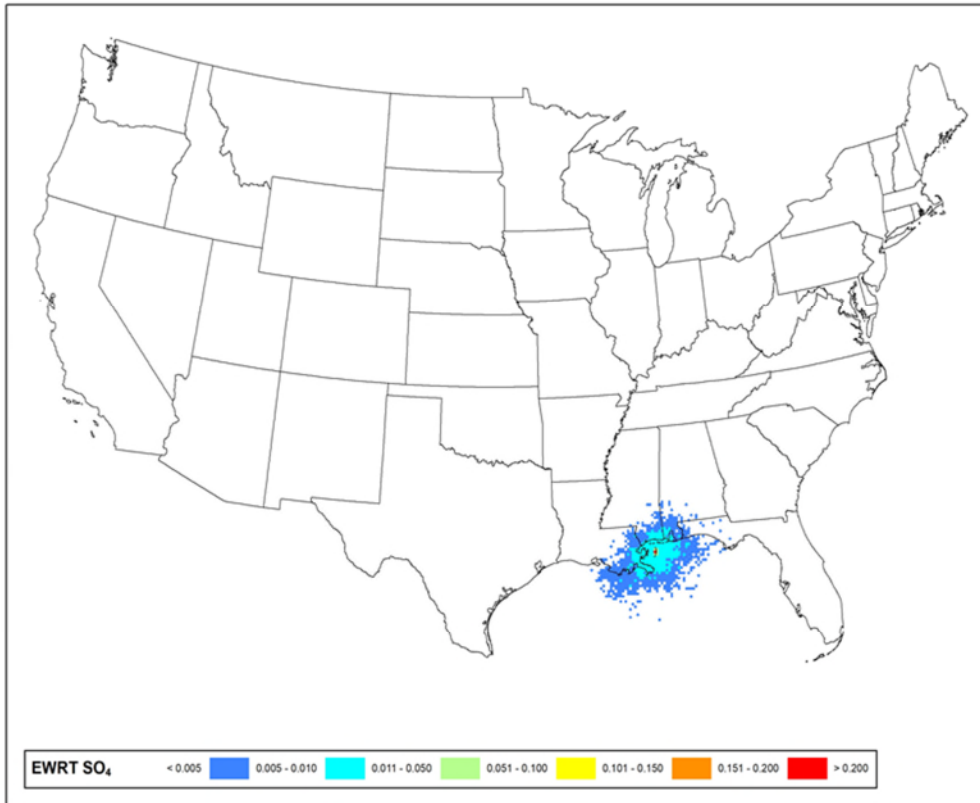


**Figure 4: Residence Time (Counts per 12km Modeling Grid Cell) for Breton Wilderness Area – Full View (top) and Class I Zoom (bottom)**

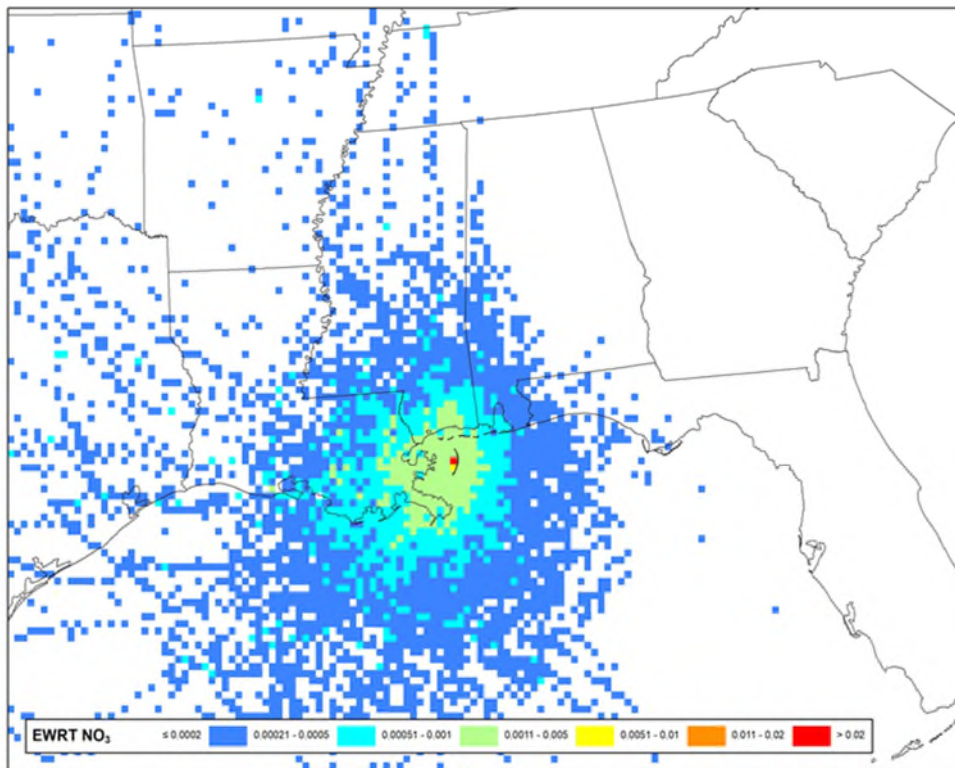
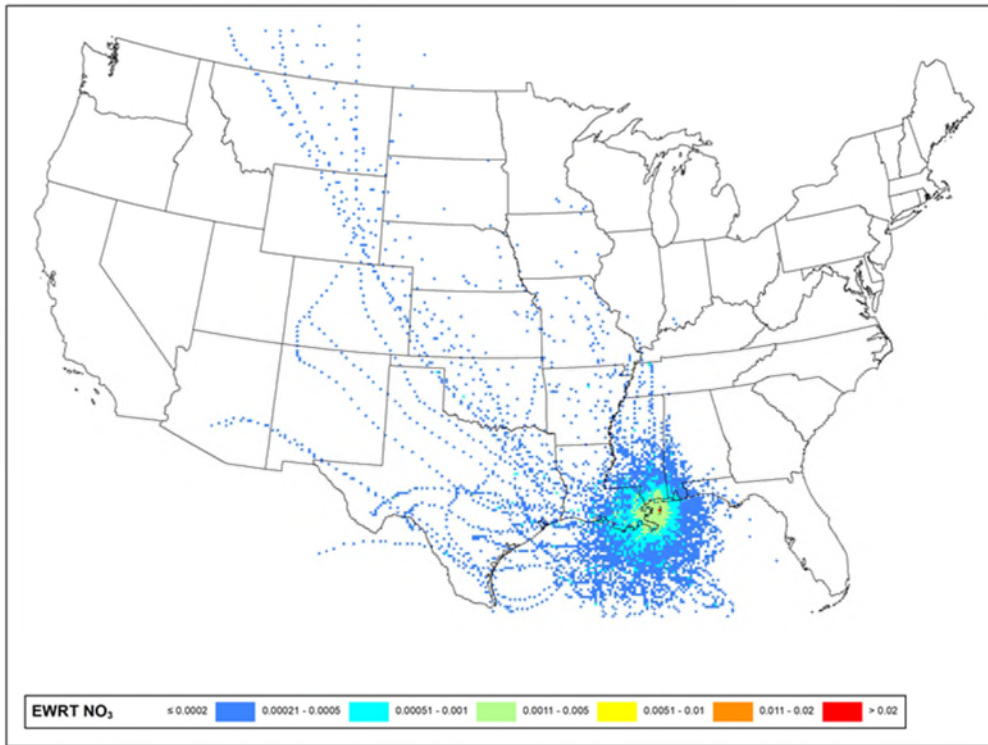


**Figure 5: Residence Time (% of Total Counts per 12km Modeling Grid Cell for Breton Wilderness Area – Full View (top) and Class I Zoom (bottom))**





**Figure 6: Sulfate Extinction Weighted Residence Time (Sulfate EWRT per 12km Modeling Grid Cell) for Breton Wilderness Area - Full View (top) and Class I Zoom (bottom)**



**Figure 7: Nitrate Extinction Weighted Residence Time (Nitrate EWRT per 12-km Modeling Grid Cell) for Breton Wilderness Area - Full View (top) and Class I Zoom (bottom)**

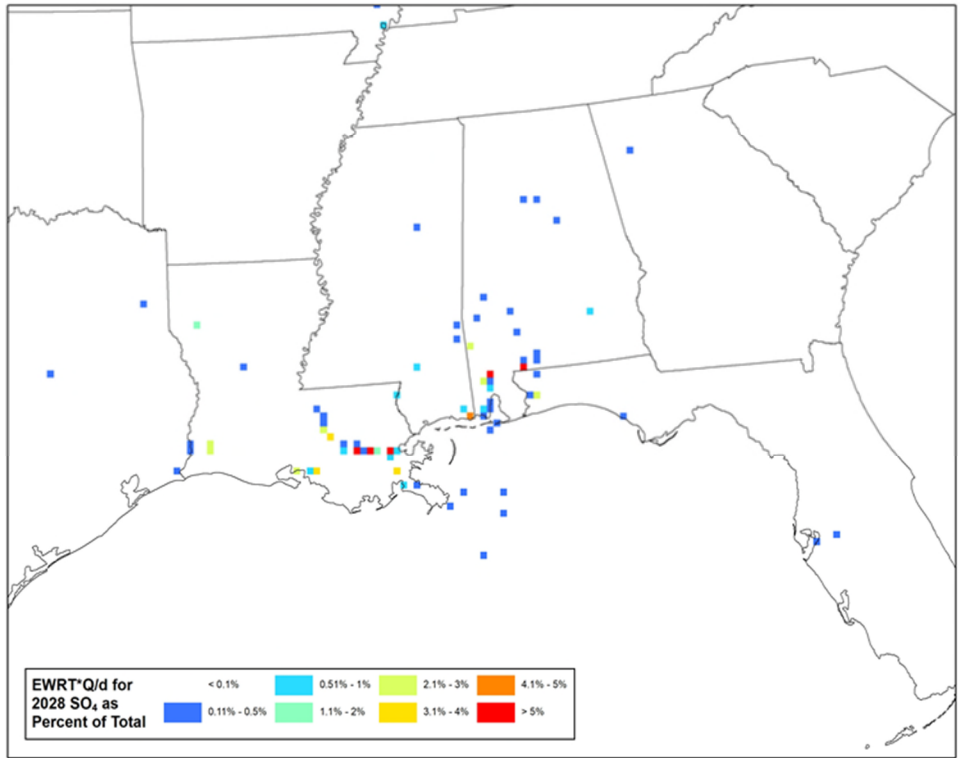
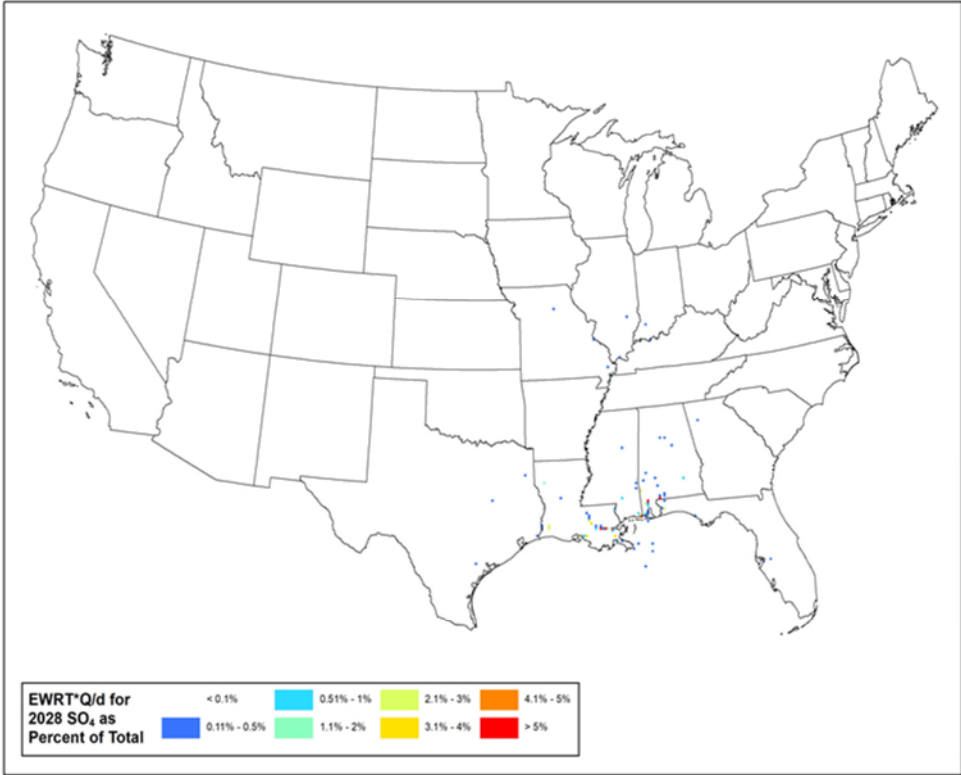
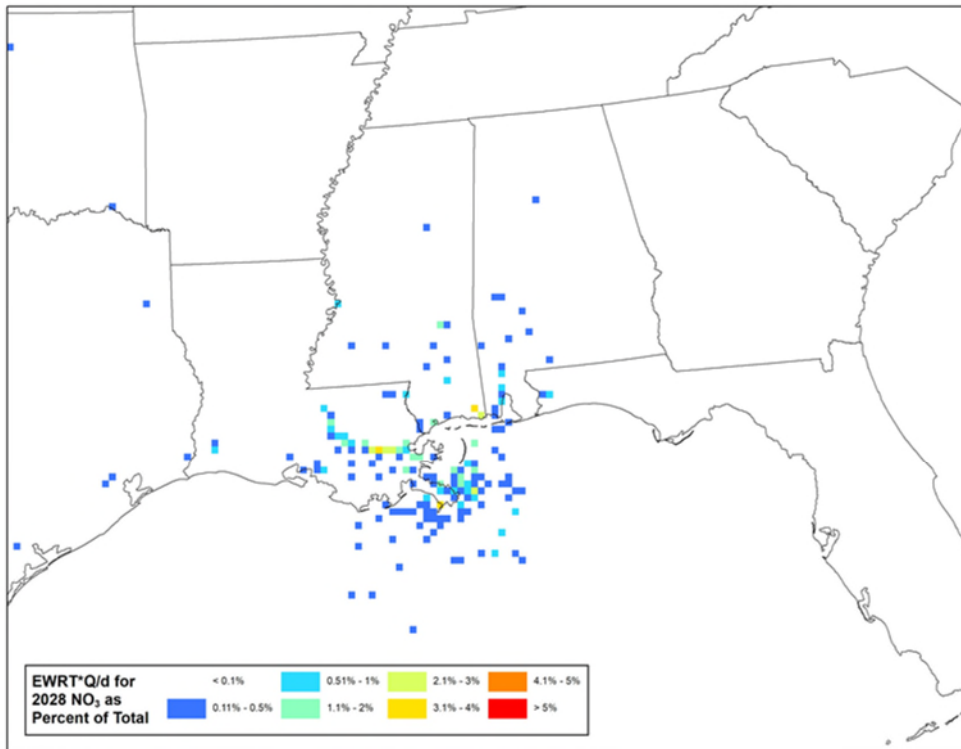
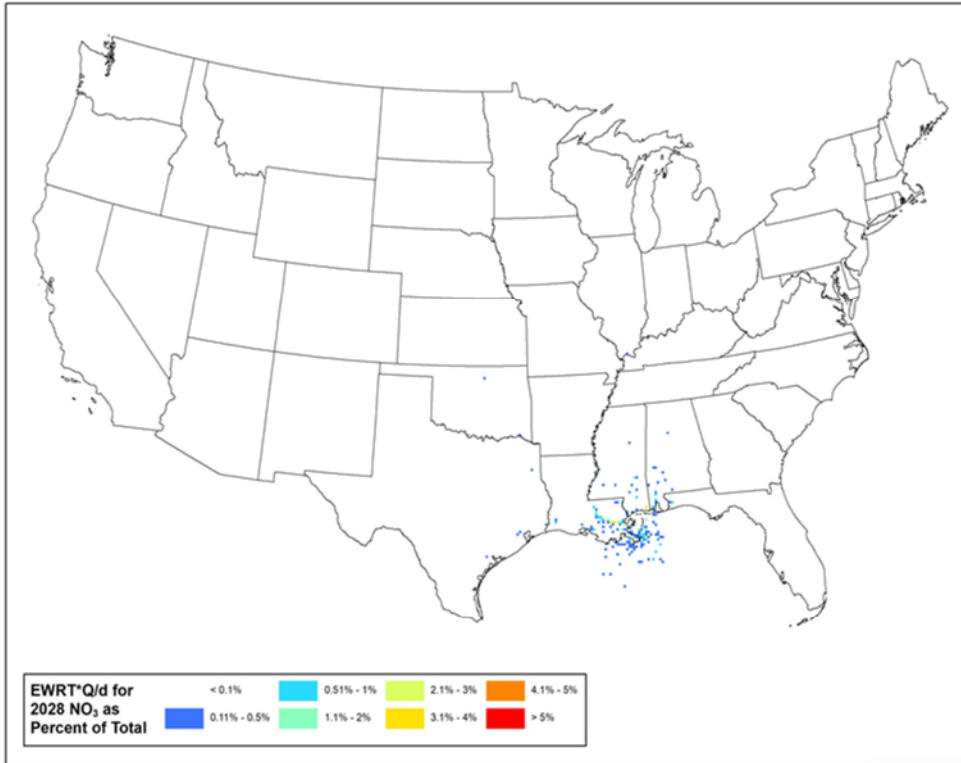


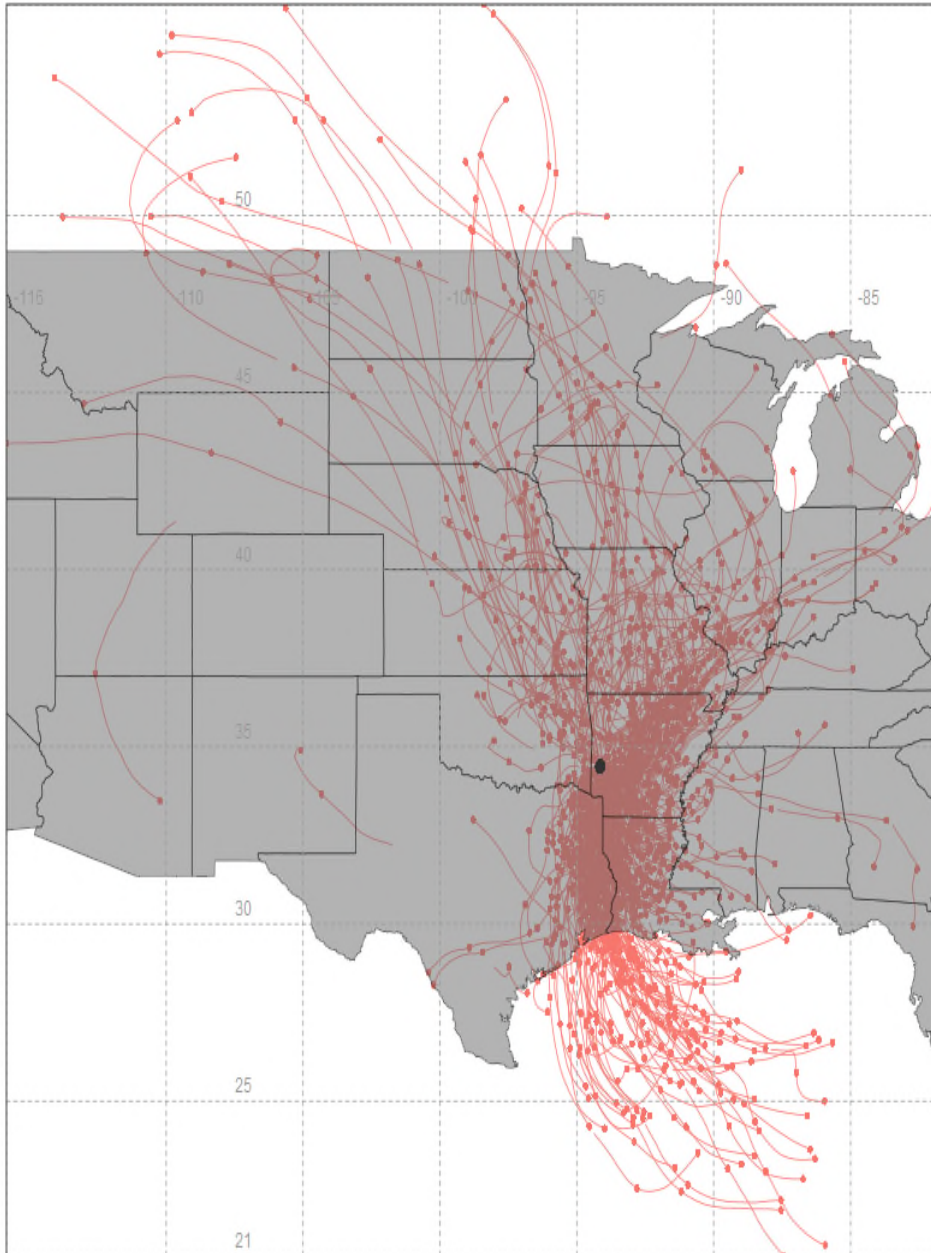
Figure 8: Sulfate Emissions/Distance Extinction Weighted Residence Time (% of Total Q/d\*EWRT per 12km Modeling Grid Cell) for Breton Wilderness Area – Full View (top) and Class I Zoom (bottom)



**Figure 9: Nitrate Emissions/Distance Extinction Weighted Residence Time (% of Total Q/d\*EWRT per 12km Modeling Grid Cell) for Breton Wilderness Area – Full View (top) and Class I Zoom (bottom)**

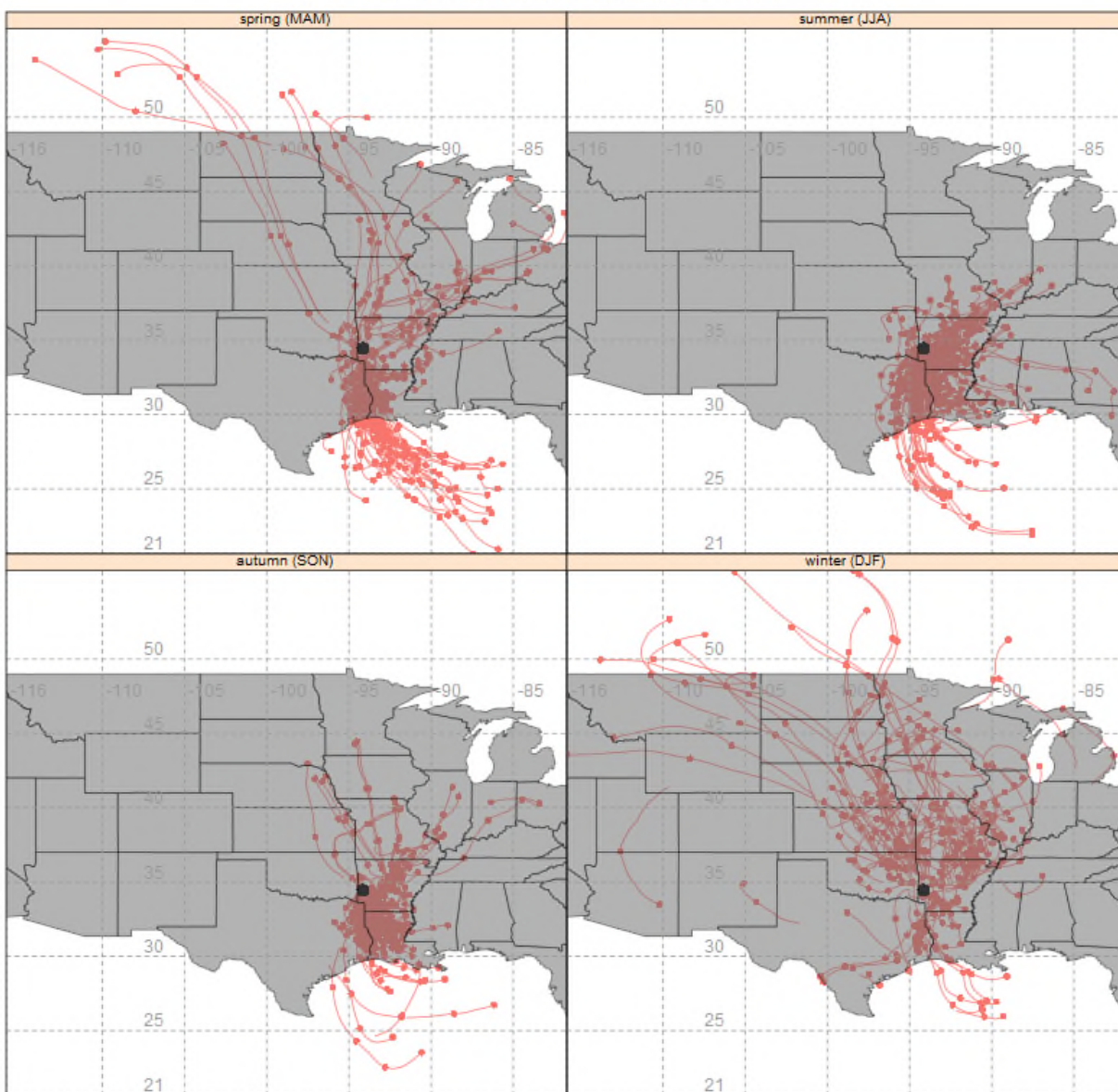
# Caney Creek Wilderness Area

Class1 site: 08 Year: 2011-2016 Height: 100.00

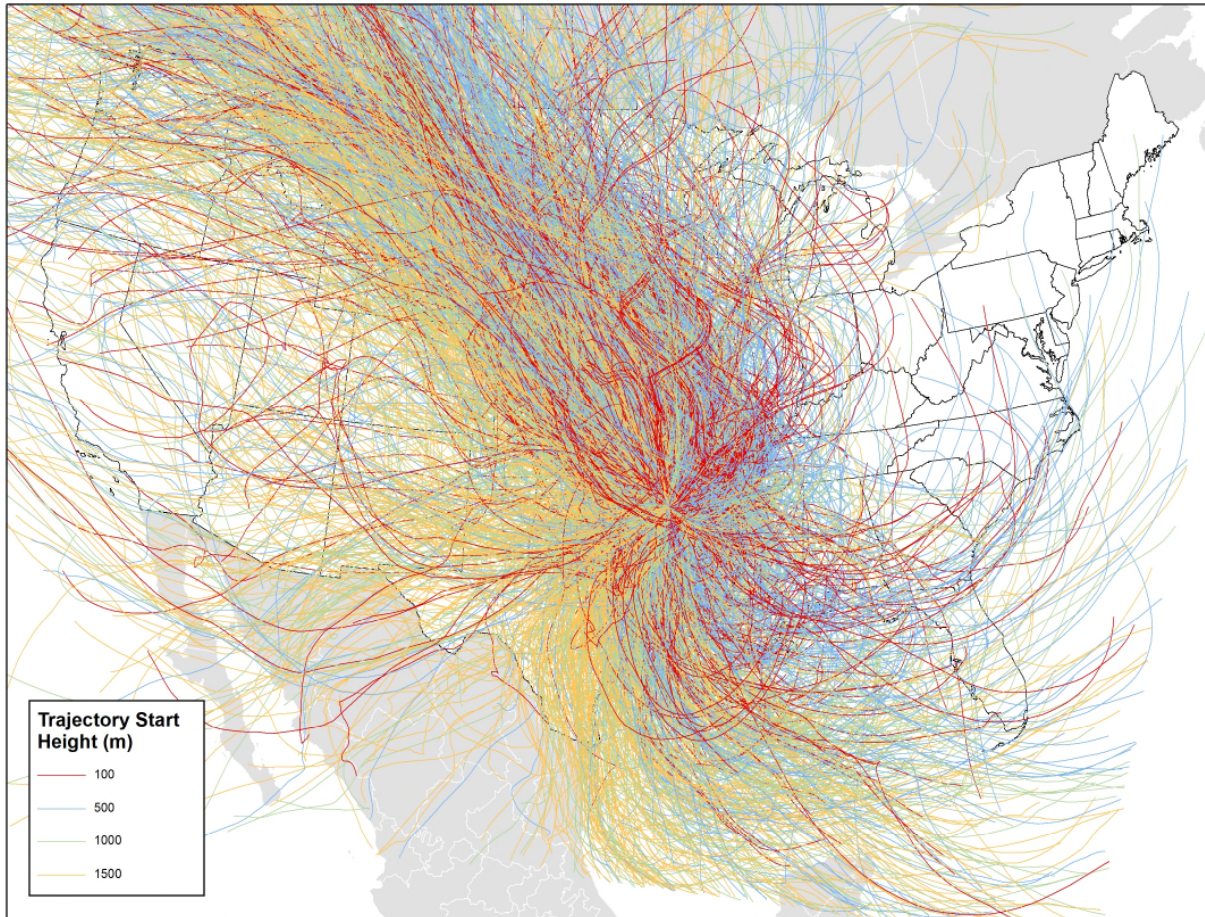


**Figure 1: 100-Meter Back Trajectories for the 20% Most Impaired Visibility Days (2011-2016), from Caney Creek Wilderness Area**

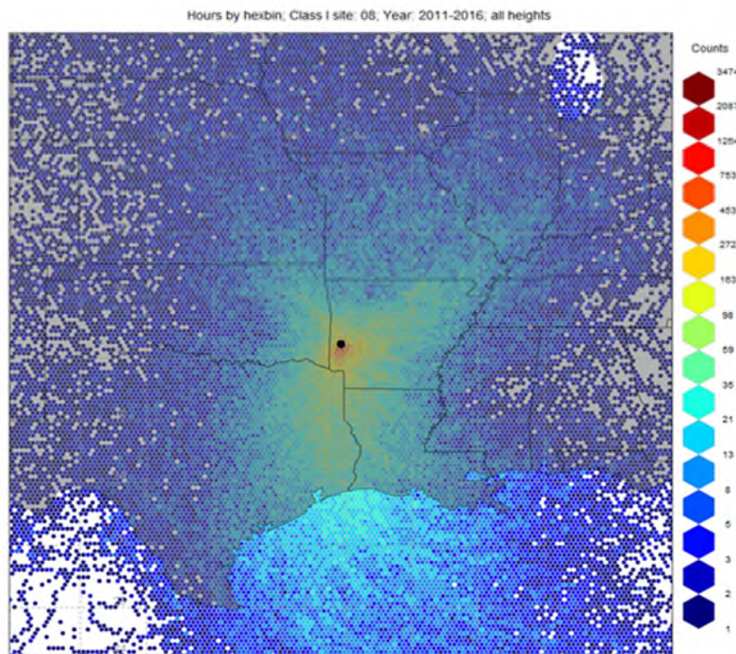
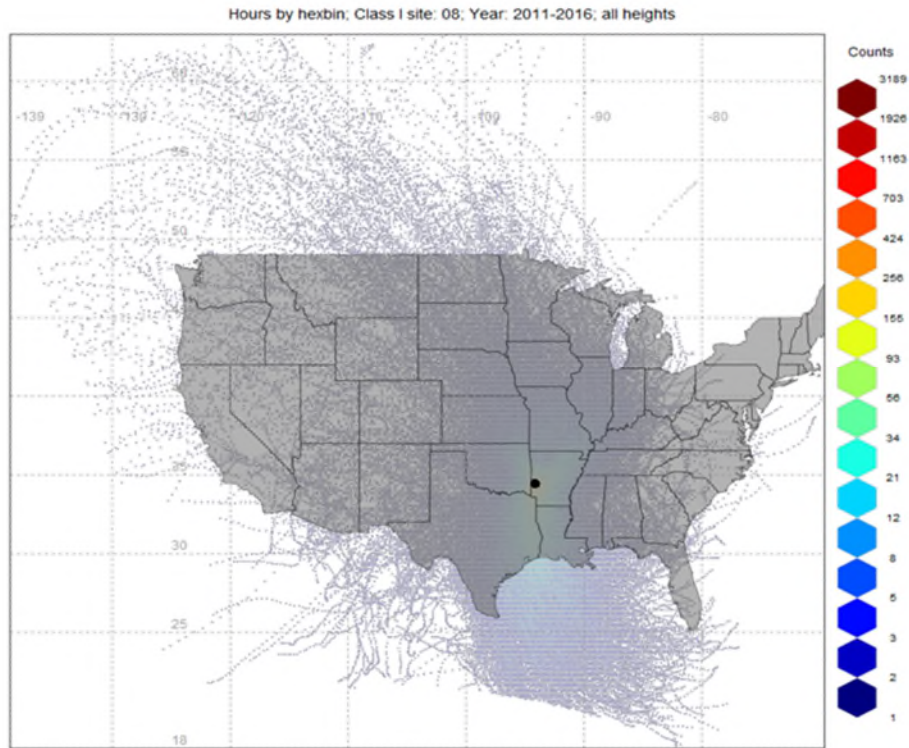
Class1 site: 08 Year: 2011-2016 Height: 100.00



**Figure 2: 100-Meter Back Trajectories by Season for the 20% Most Impaired Visibility Days (2011-2016) from Caney Creek Wilderness Area**

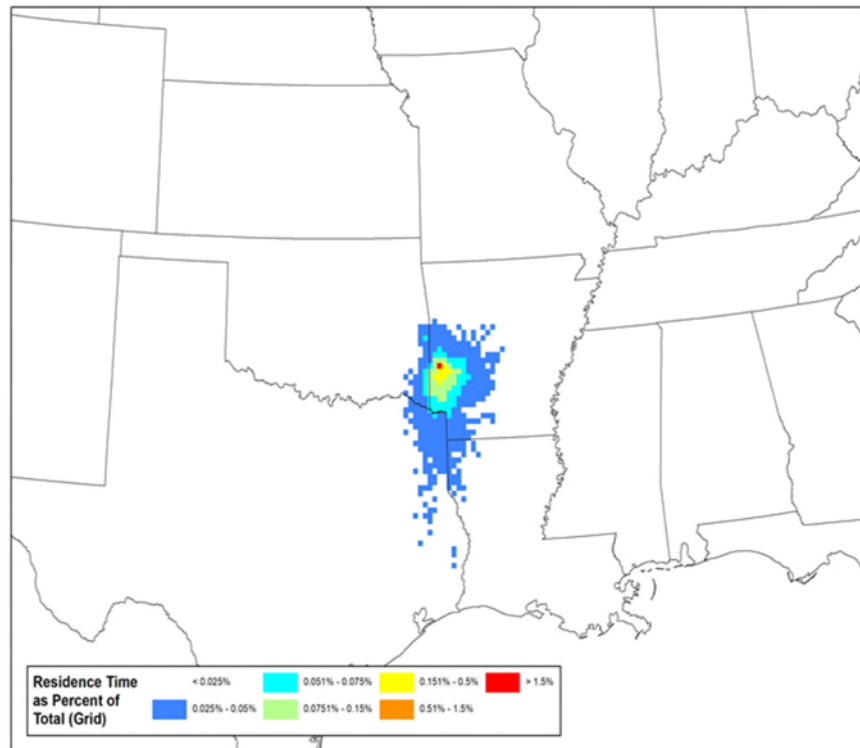
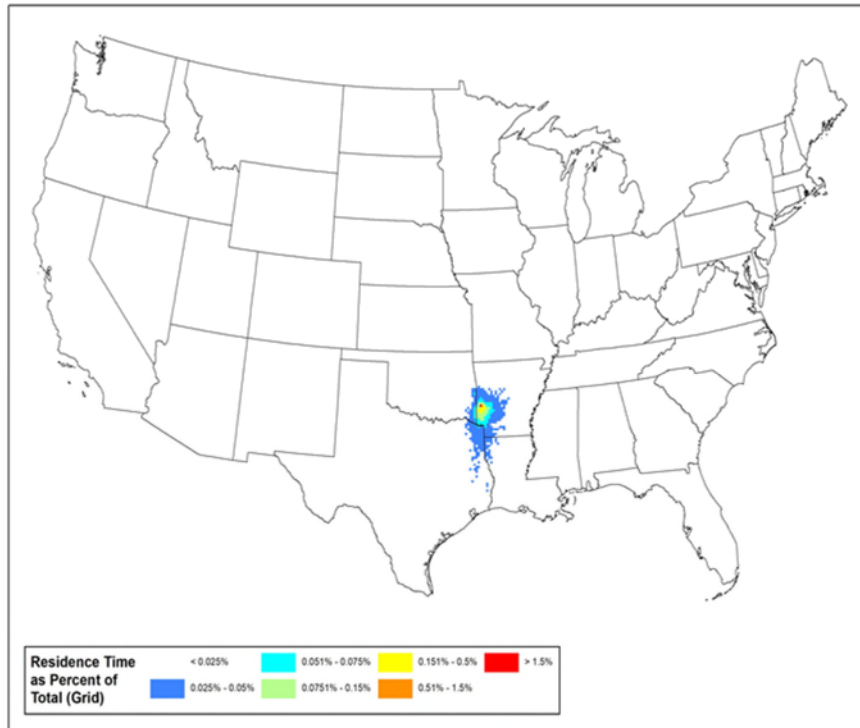


**Figure 3: 100-Meter, 500-Meter, 1000-Meter, and 1500-Meter Back Trajectories for the 20% Most Impaired Days (2011-2016) from Caney Creek Wilderness Area**

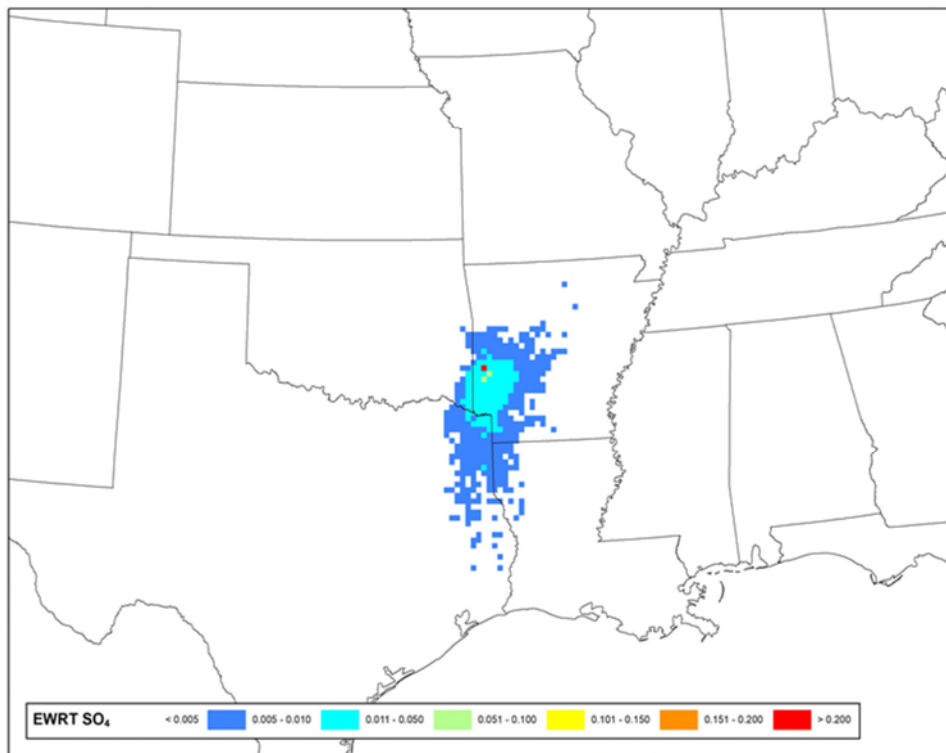
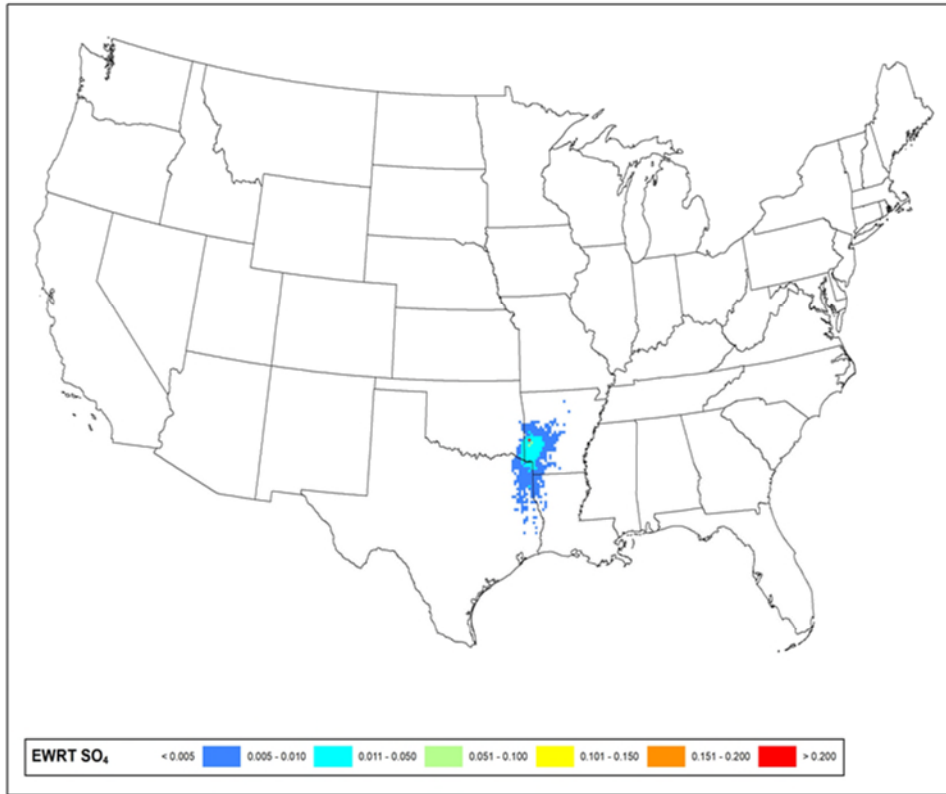


**Figure 4: Residence Time (Counts per 12km Modeling Grid Cell) for Caney Creek Wilderness Area – Full View (top) and Class I Zoom (bottom)**

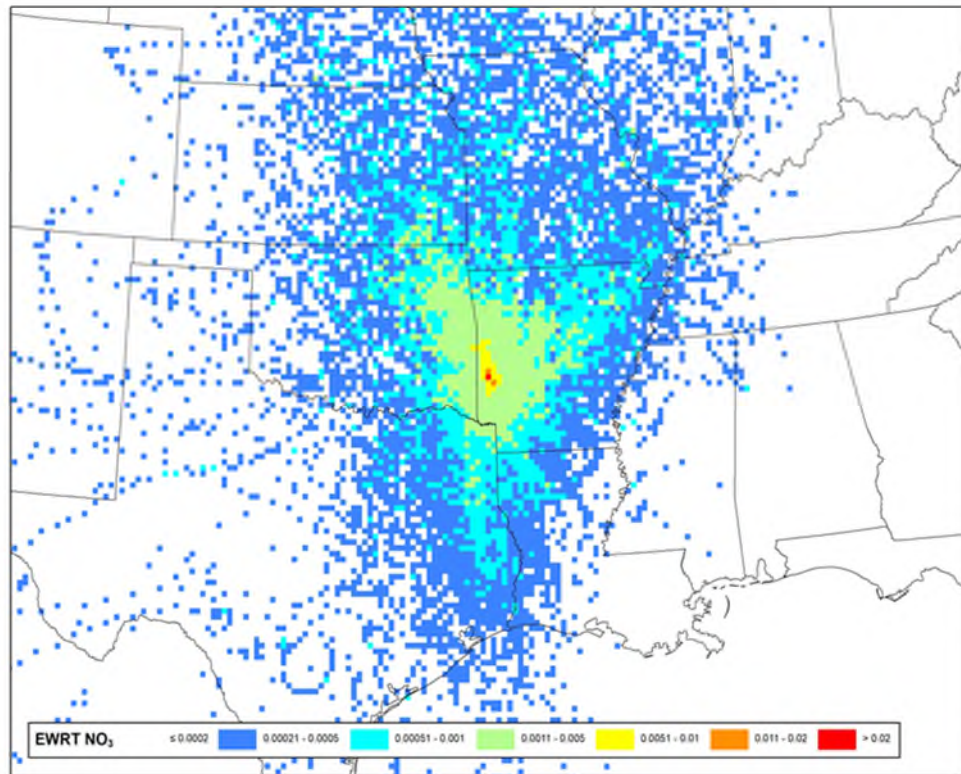
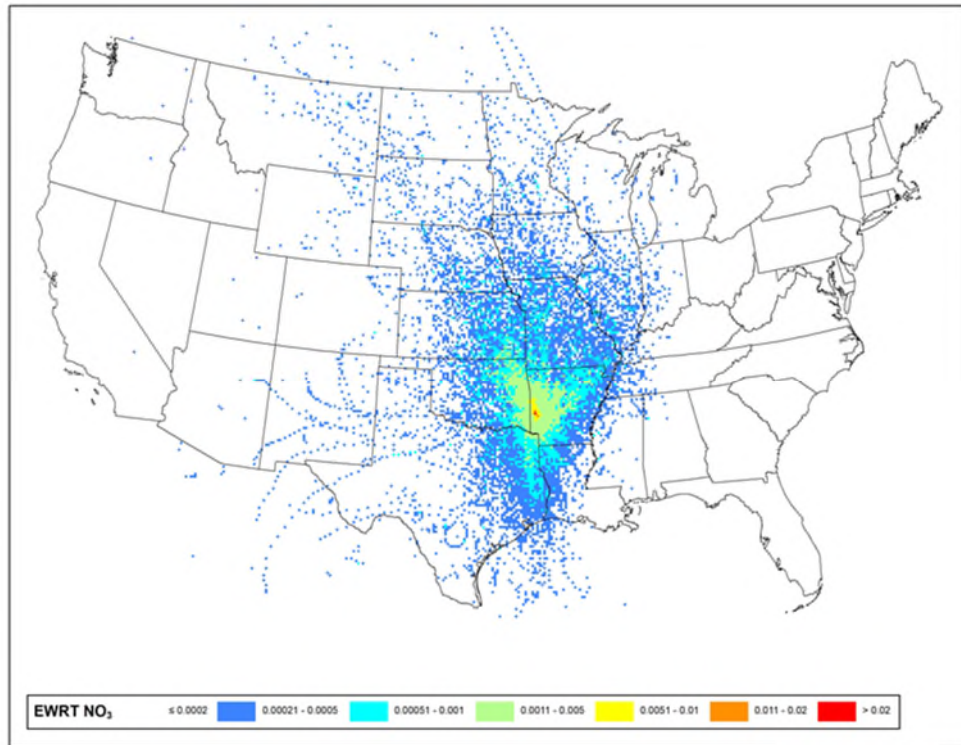




**Figure 5: Residence Time (% of Total Counts per 12km Modeling Grid Cell for Caney Creek Wilderness Area – Full View (top) and Class I Zoom (bottom))**



**Figure 6: Sulfate Extinction Weighted Residence Time (Sulfate EWRT per 12km Modeling Grid Cell) for Caney Creek Wilderness Area - Full View (top) and Class I Zoom (bottom)**



**Figure 7: Nitrate Extinction Weighted Residence Time (Nitrate EWRT per 12-km Modeling Grid Cell) for Caney Creek Wilderness Area - Full View (top) and Class I Zoom (bottom)**

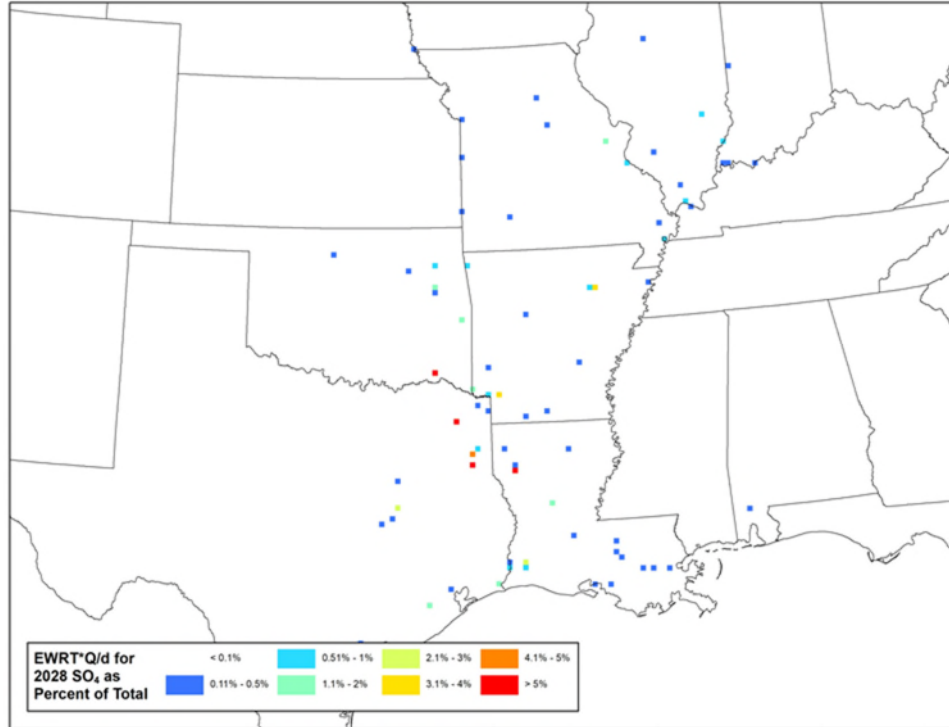
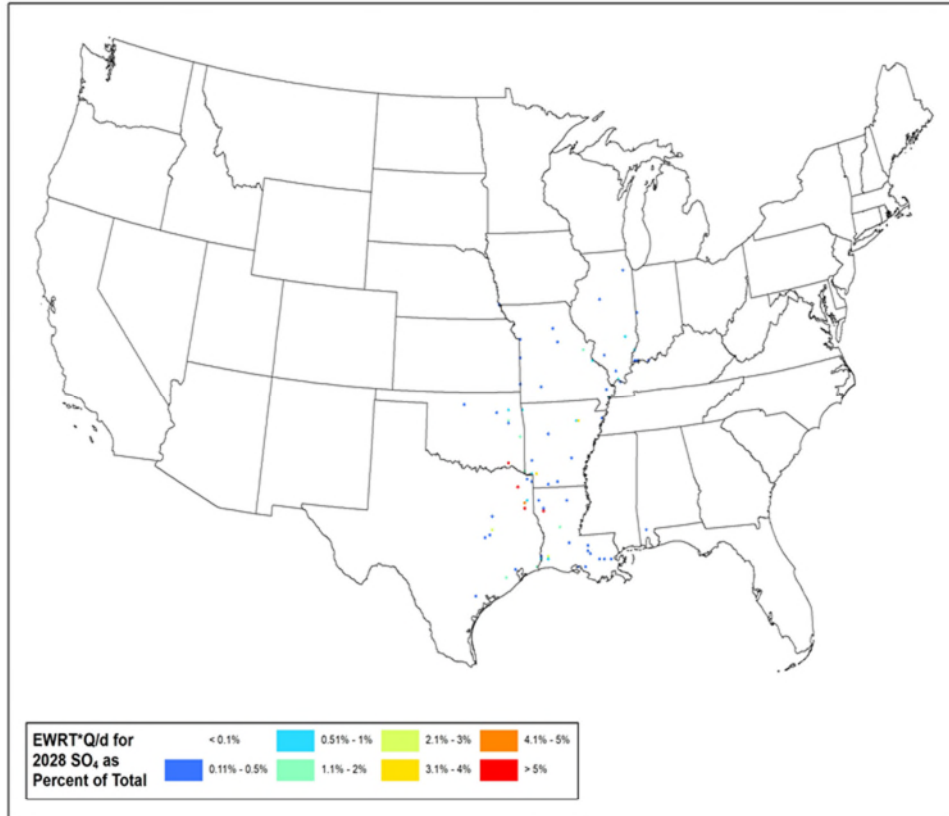
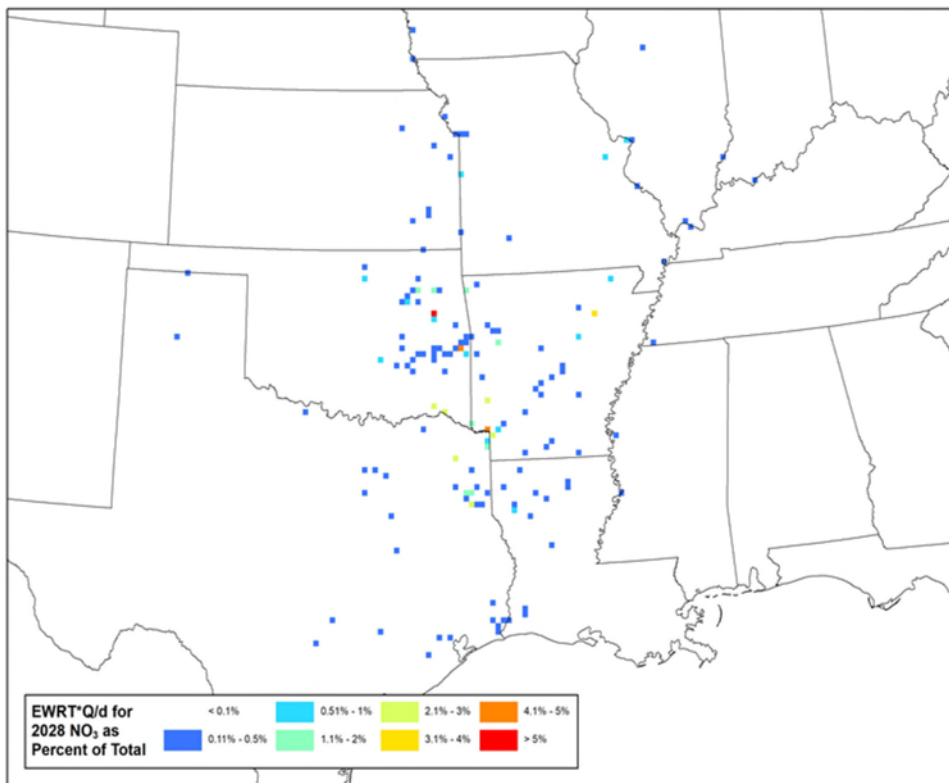
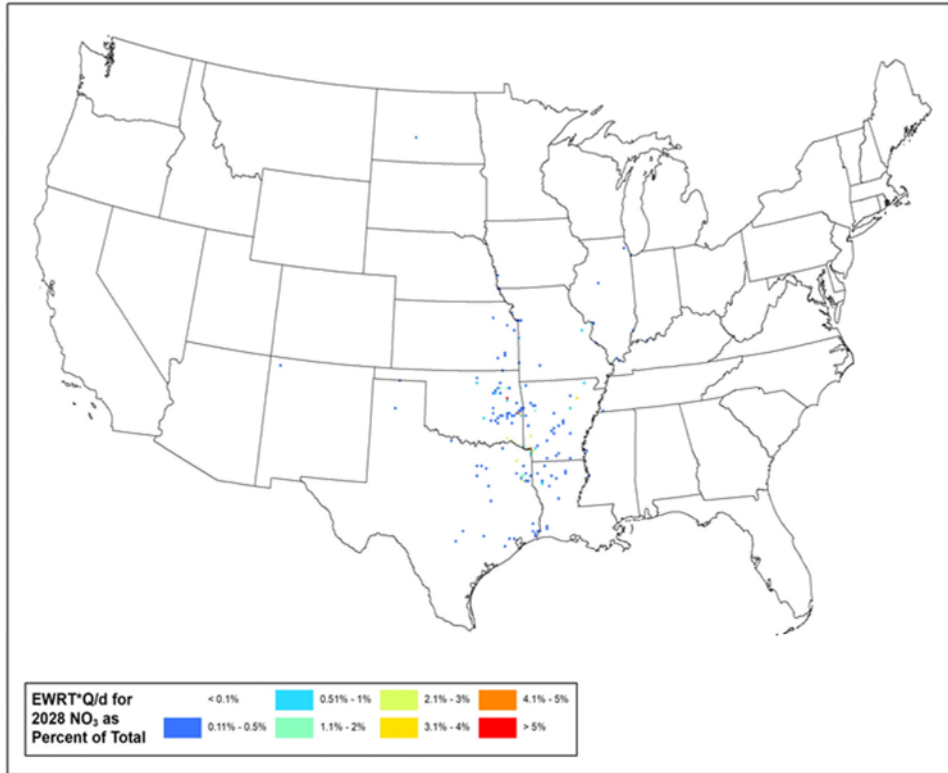


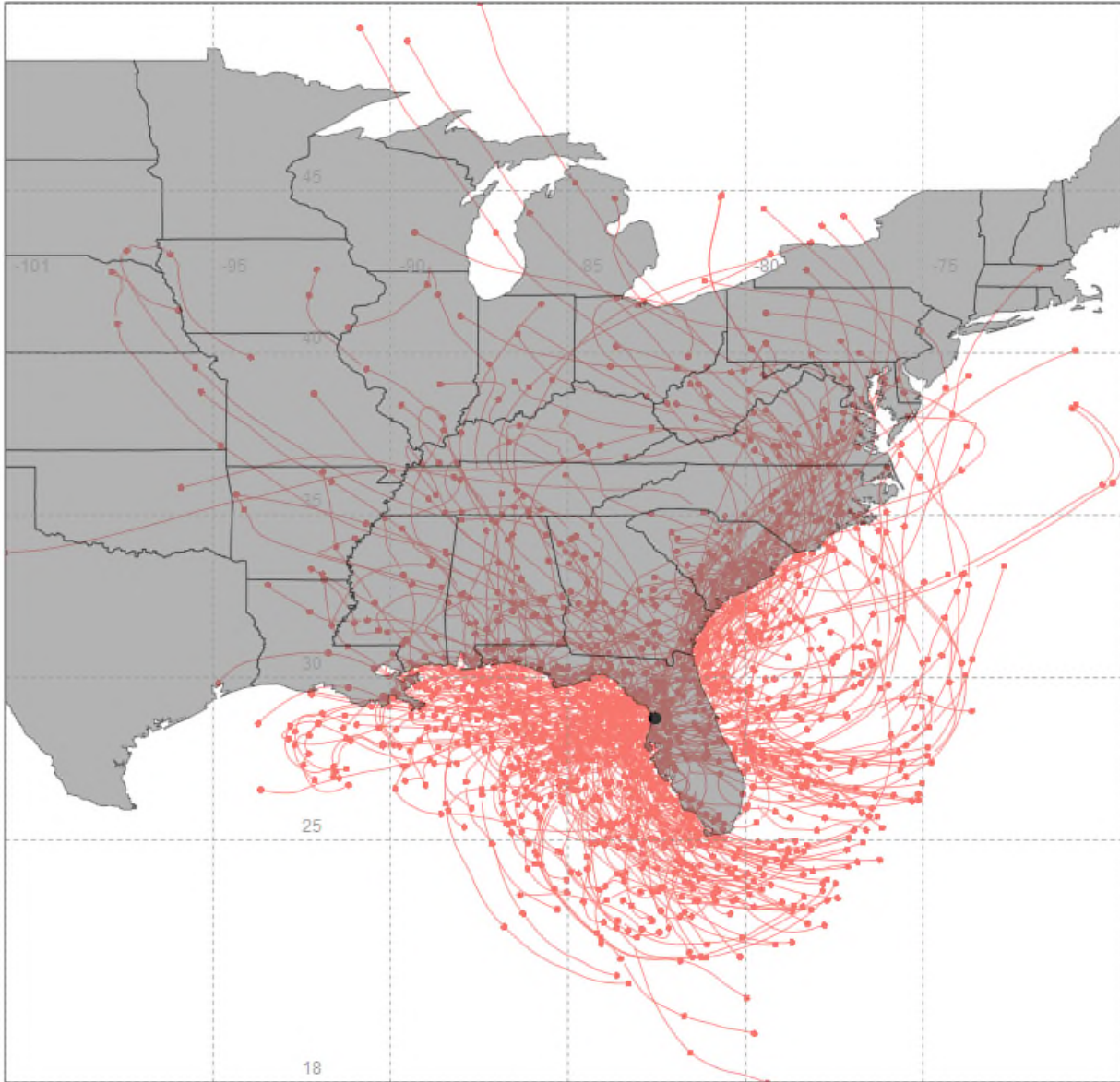
Figure 8: Sulfate Emissions/Distance Extinction Weighted Residence Time (% of Total Q/d\*EWRT per 12km Modeling Grid Cell) for Caney Creek Wilderness Area – Full View (top) and Class I Zoom (bottom)



**Figure 9: Nitrate Emissions/Distance Extinction Weighted Residence Time (% of Total Q/d\*EWRT per 12km Modeling Grid Cell) for Caney Creek Wilderness Area – Full View (top) and Class I Zoom (bottom)**

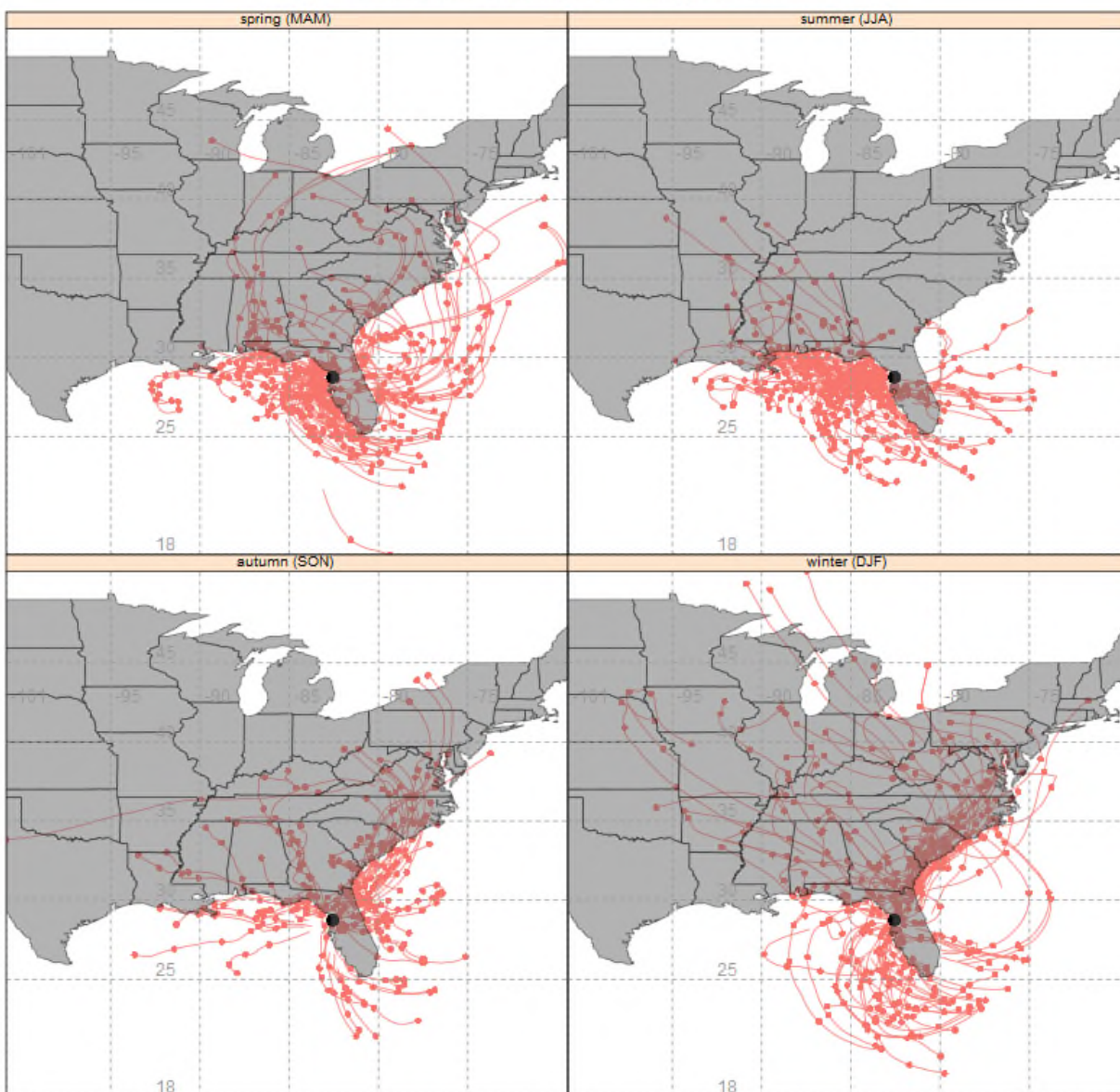
# Chassahowitza Wilderness Area

Class1 site: 09 Year: 2011-2016 Height: 100.00

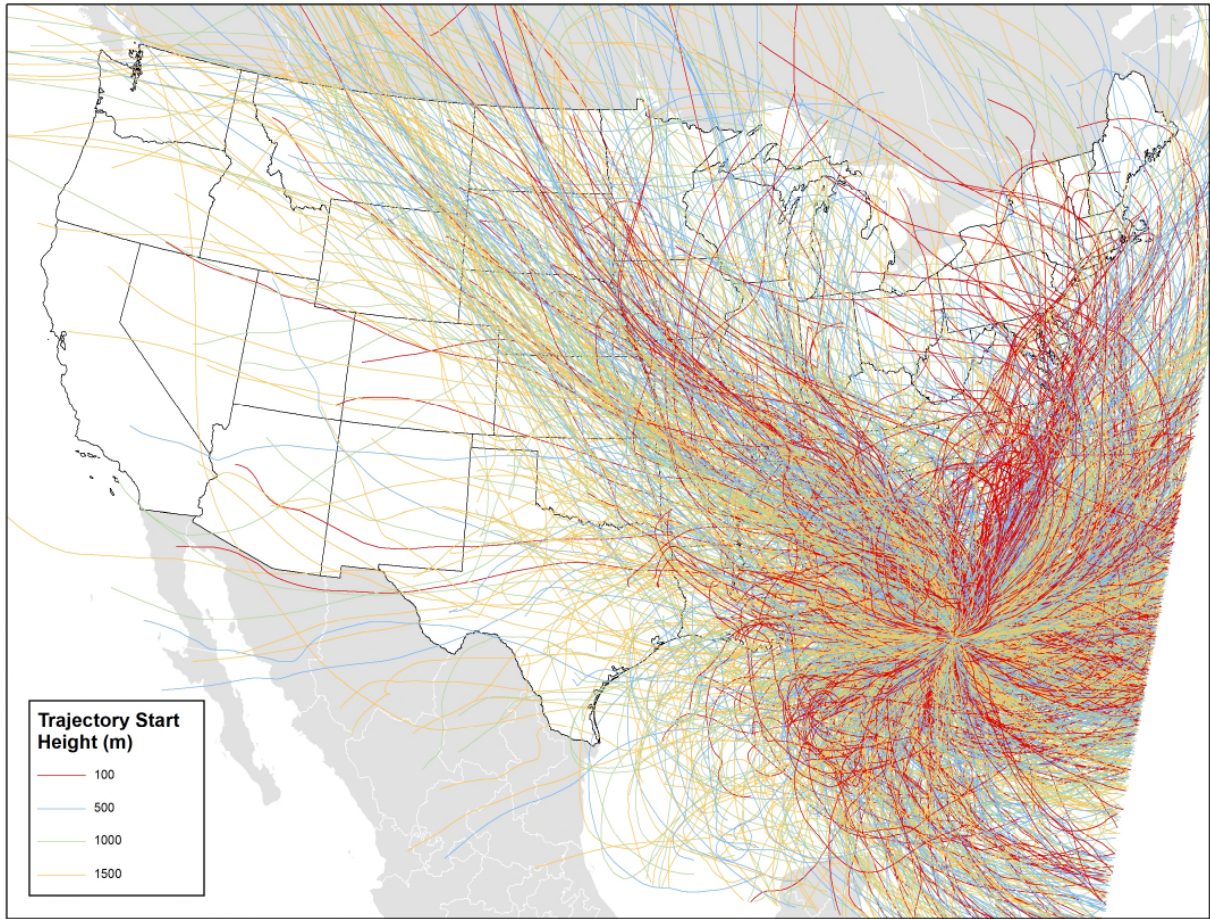


**Figure 1: 100-Meter Back Trajectories for the 20% Most Impaired Visibility Days (2011-2016), from Chassahowitza Wilderness Area**

Class1 site: 09 Year: 2011-2016 Height: 100.00

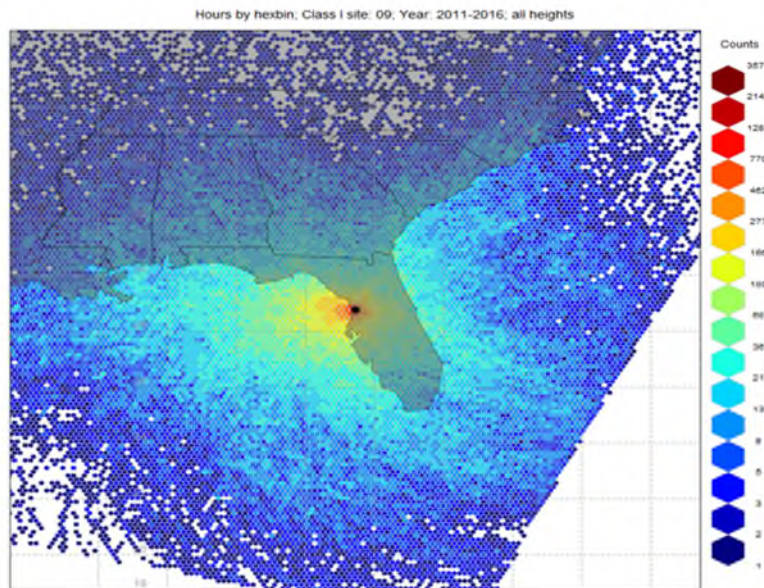
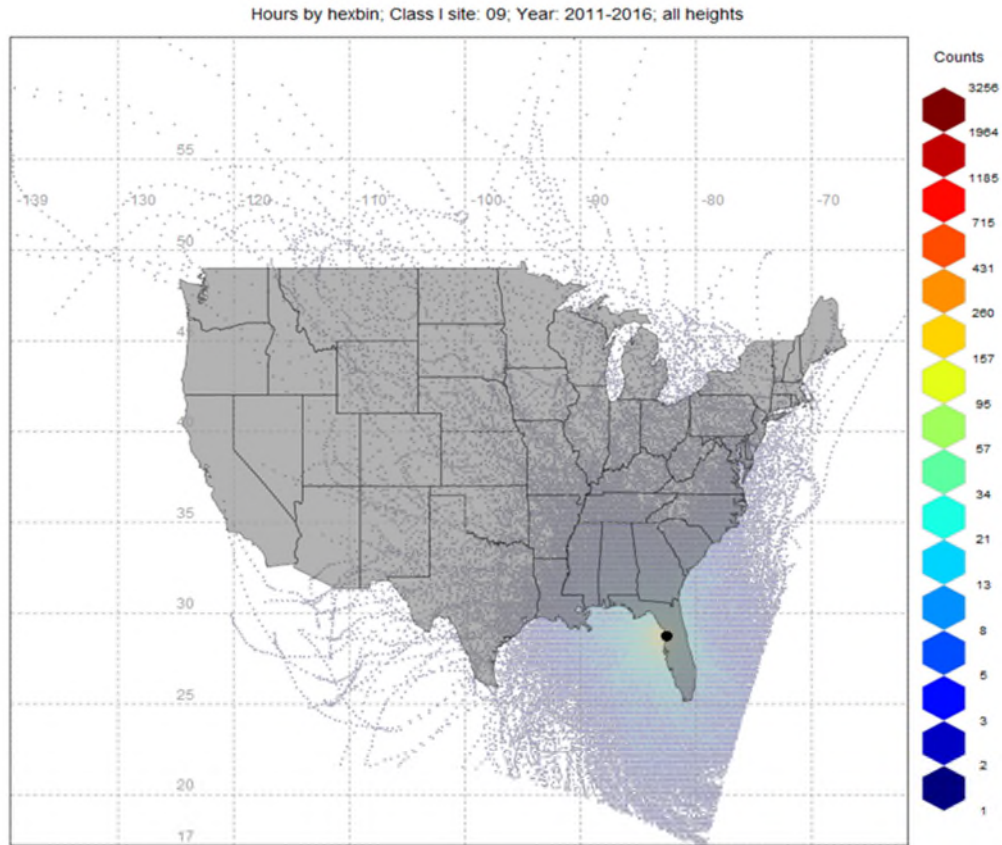


**Figure 2: 100-Meter Back Trajectories by Season for the 20% Most Impaired Visibility Days (2011-2016) from Chassahowitzka Wilderness Area**

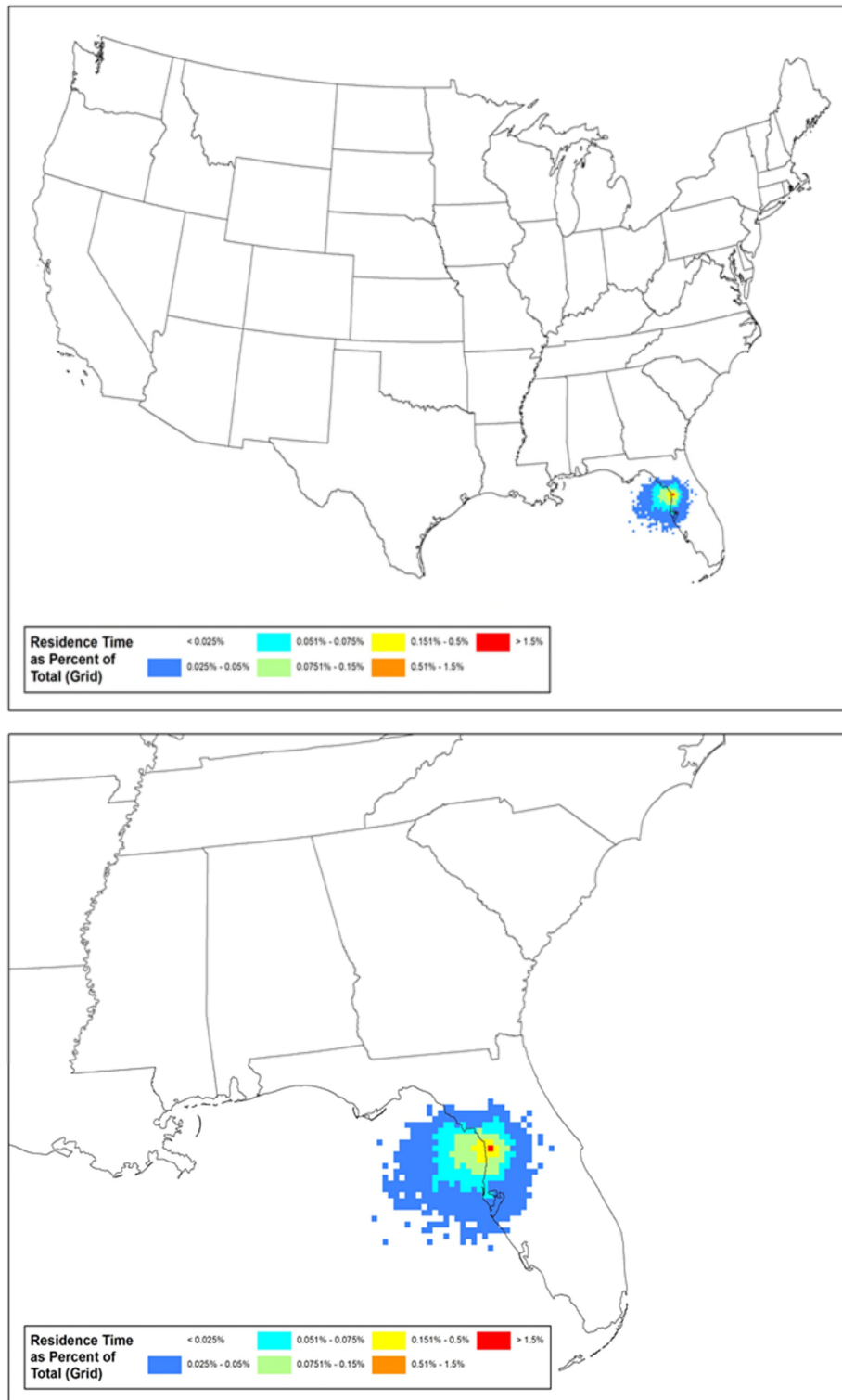


**Figure 3: 100-Meter, 500-Meter, 1000-Meter, and 1500-Meter Back Trajectories for the 20% Most Impaired Days (2011-2016) from Chassahowitzka Wilderness Area**

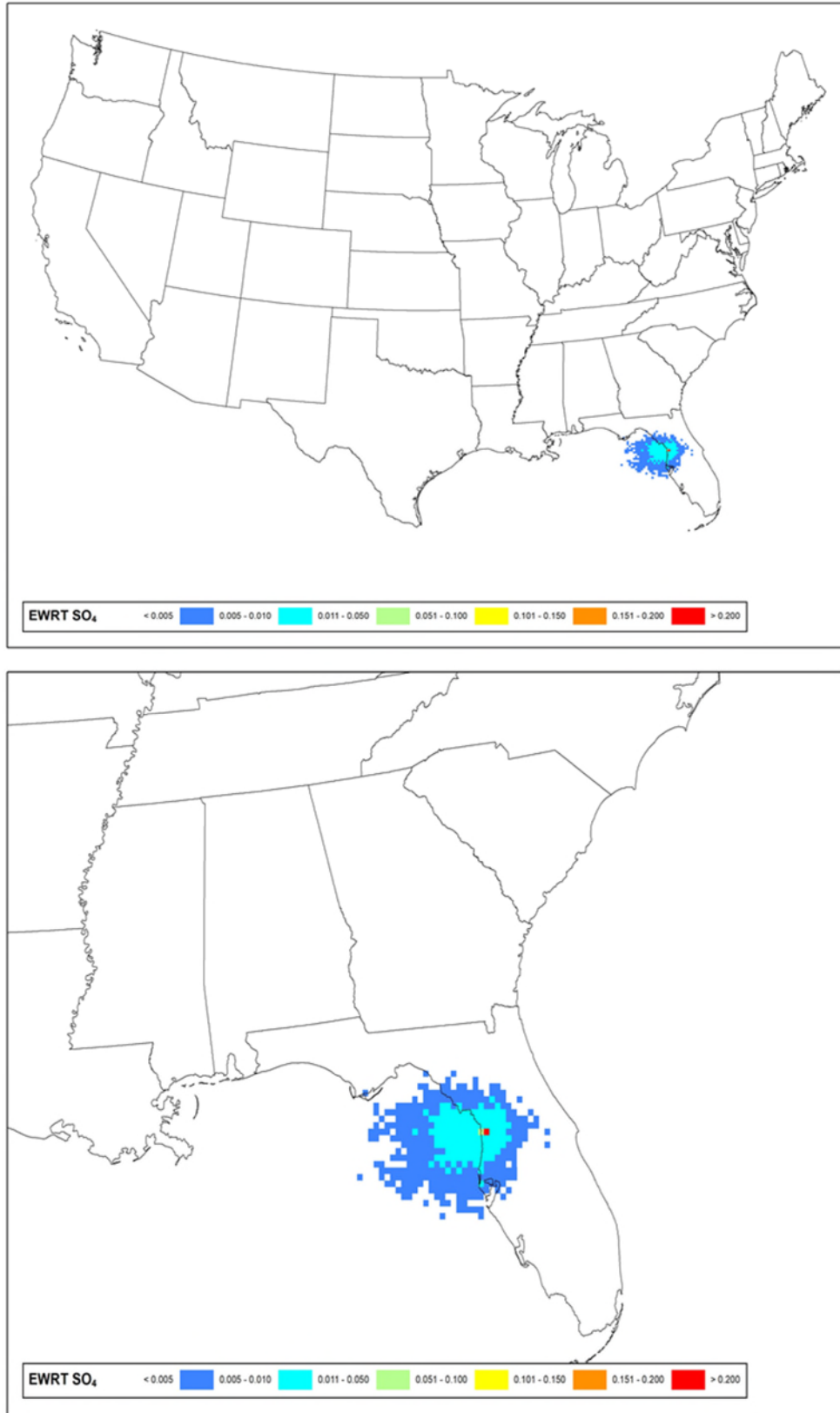




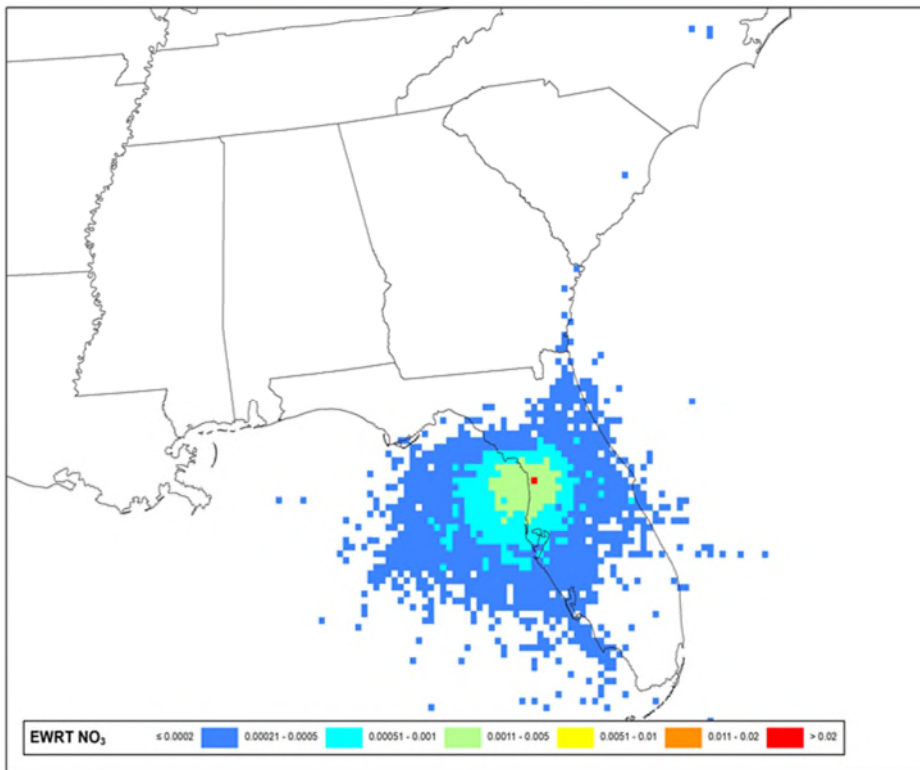
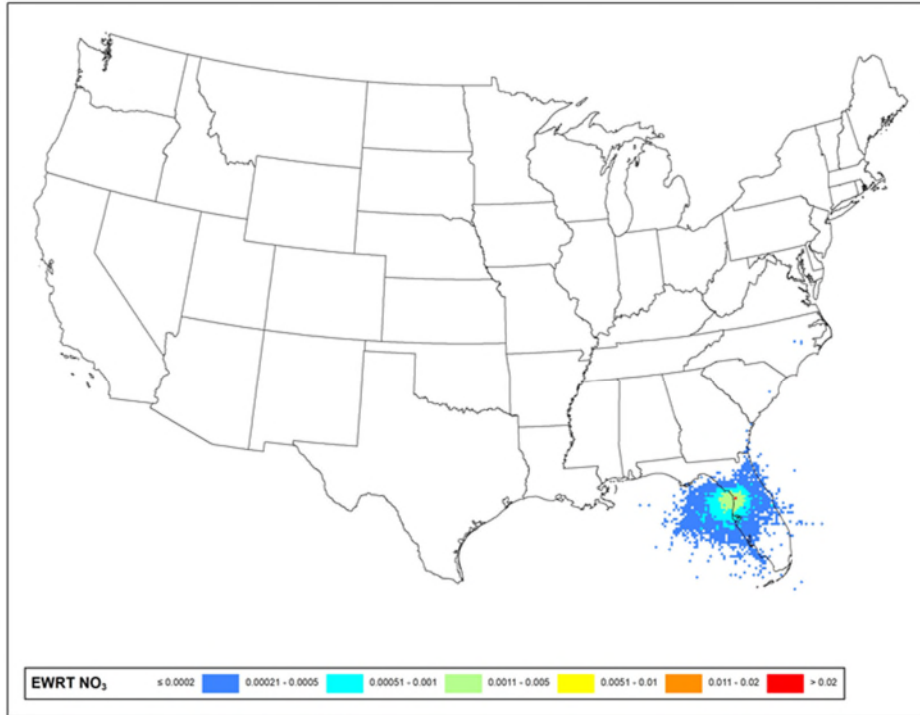
**Figure 4: Residence Time (Counts per 12km Modeling Grid Cell) for Chassahowitzka Wilderness Area – Full View (top) and Class I Zoom (bottom)**



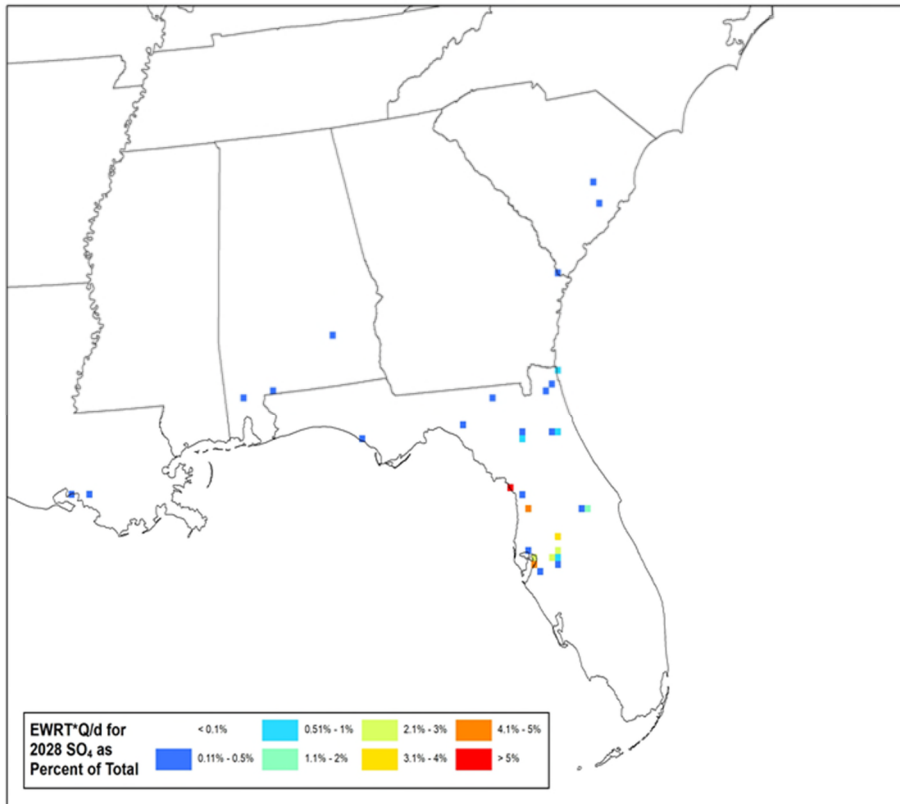
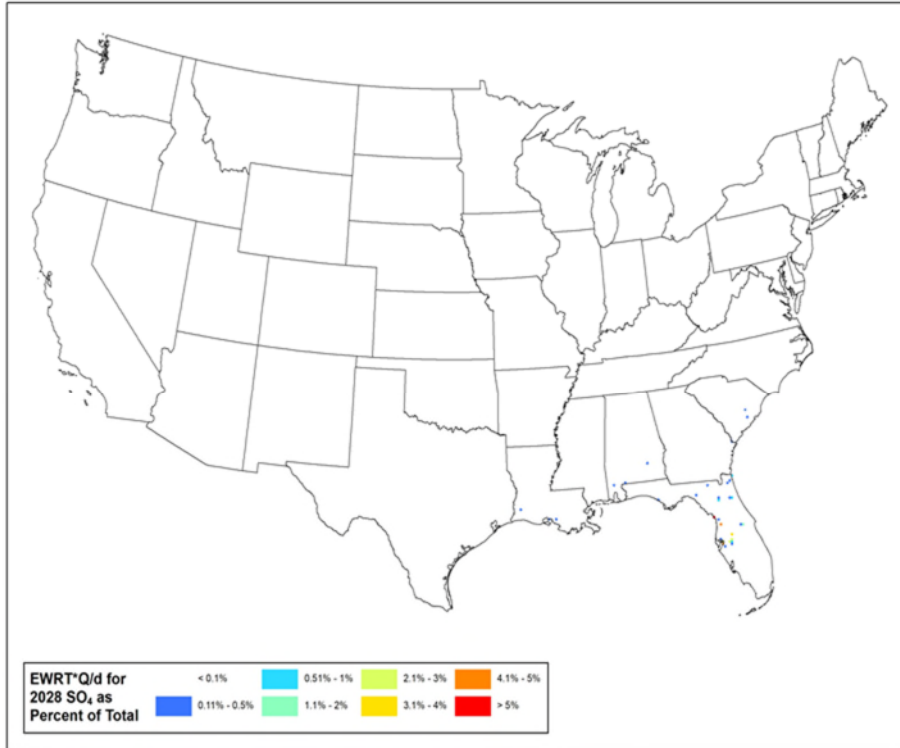
**Figure 5: Residence Time (% of Total Counts per 12km Modeling Grid Cell for Chassahowitzka Wilderness Area – Full View (top) and Class I Zoom (bottom)**



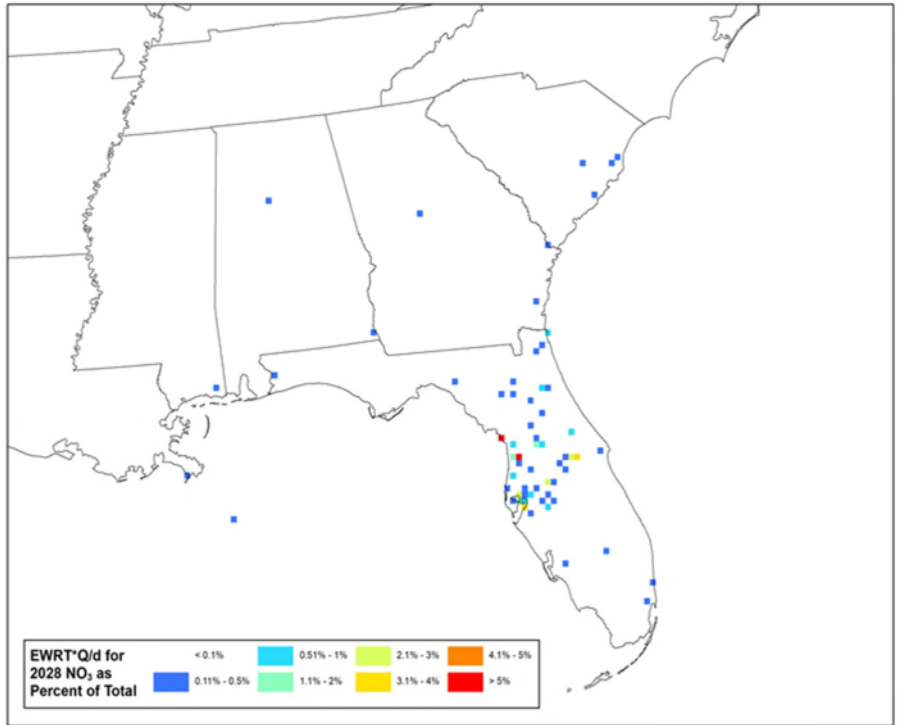
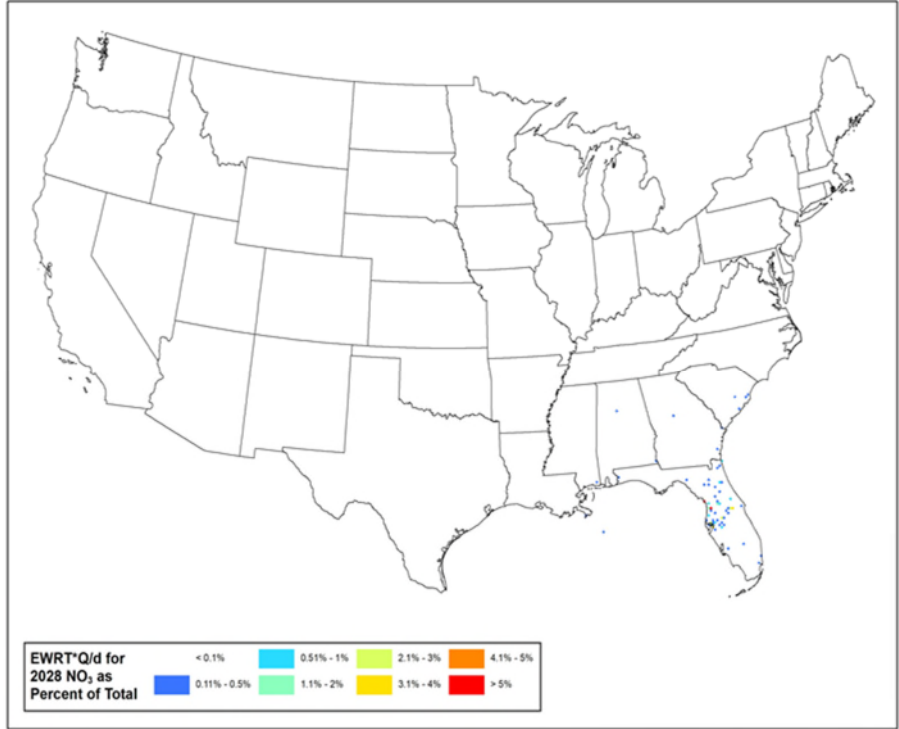
**Figure 6: Sulfate Extinction Weighted Residence Time (Sulfate EWRT per 12km Modeling Grid Cell) for Chassahowitzka Wilderness Area - Full View (top) and Class I Zoom (bottom)**



**Figure 7: Nitrate Extinction Weighted Residence Time (Nitrate EWRT per 12-km Modeling Grid Cell) for Chassahowitzka Wilderness Area - Full View (top) and Class I Zoom (bottom)**



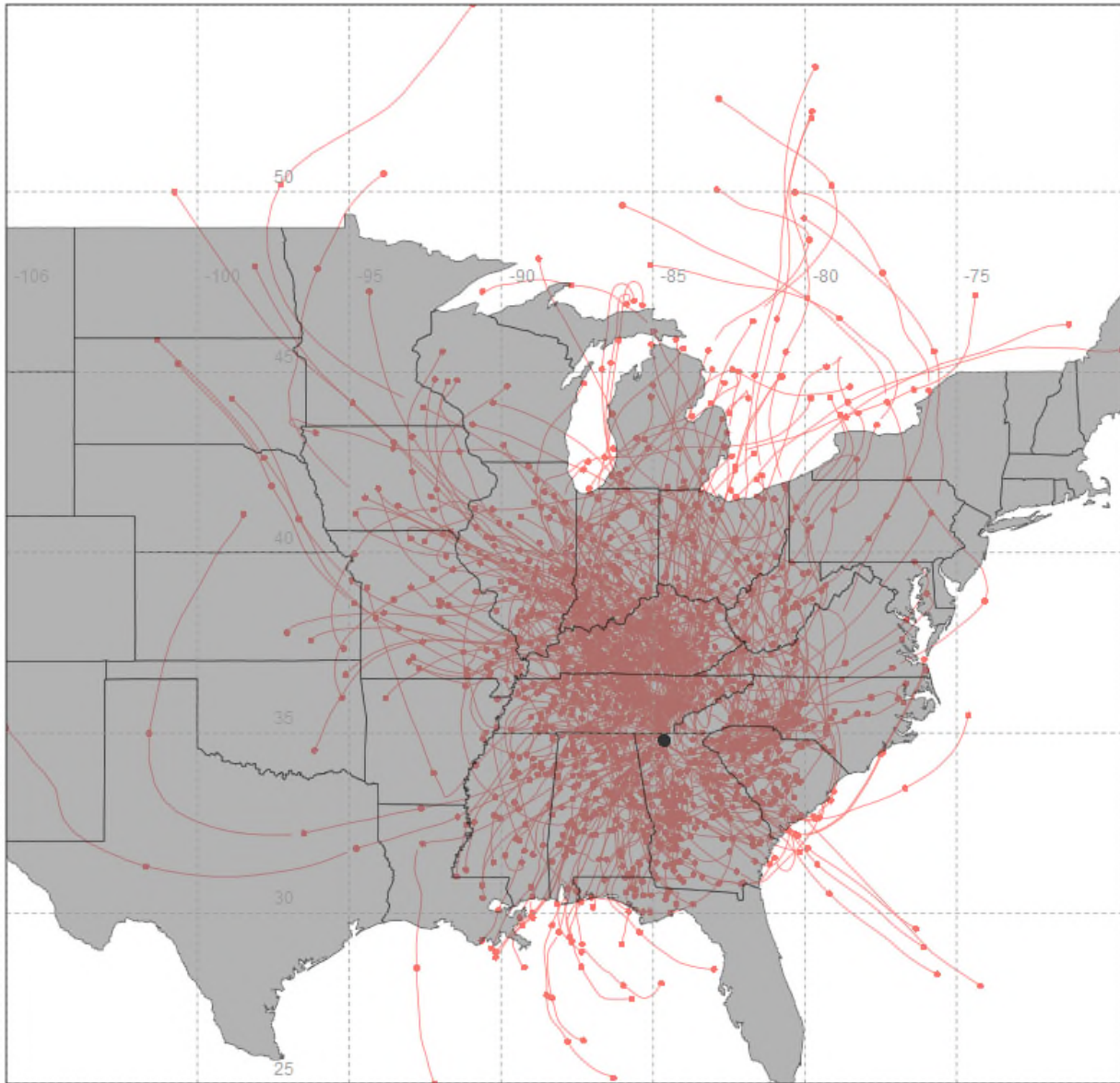
**Figure 8: Sulfate Emissions/Distance Extinction Weighted Residence Time (% of Total Q/d\*EWRT per 12km Modeling Grid Cell) for Chassahowitzka Wilderness Area – Full View (top) and Class I Zoom (bottom)**



**Figure 9: Nitrate Emissions/Distance Extinction Weighted Residence Time (% of Total Q/d\*EWRT per 12km Modeling Grid Cell) for Chassahowitzka Wilderness Area – Full View (top) and Class I Zoom (bottom)**

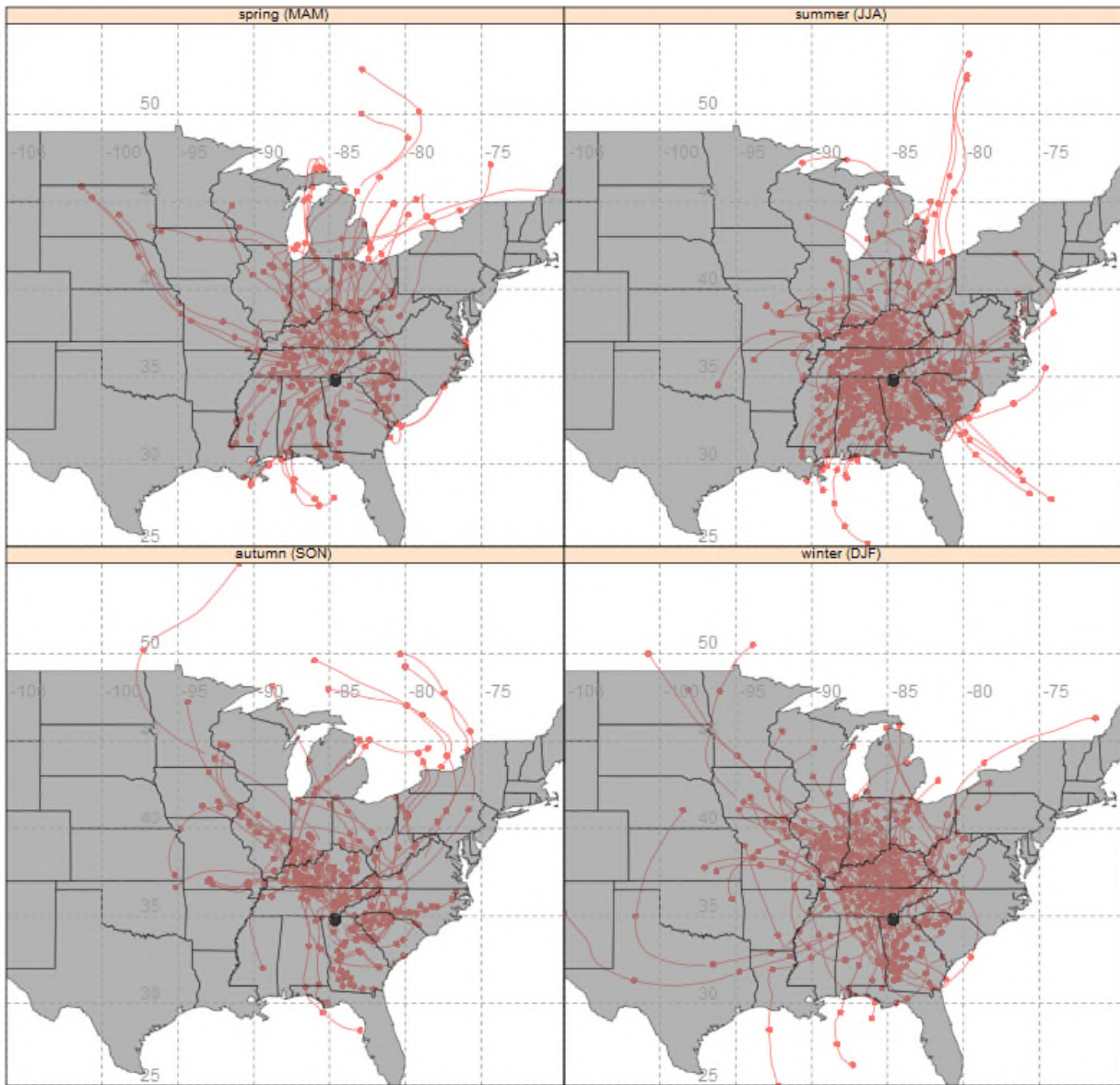
# Cohutta Wilderness Area

Class1 site: 10 Year: 2011-2016 Height: 100.00



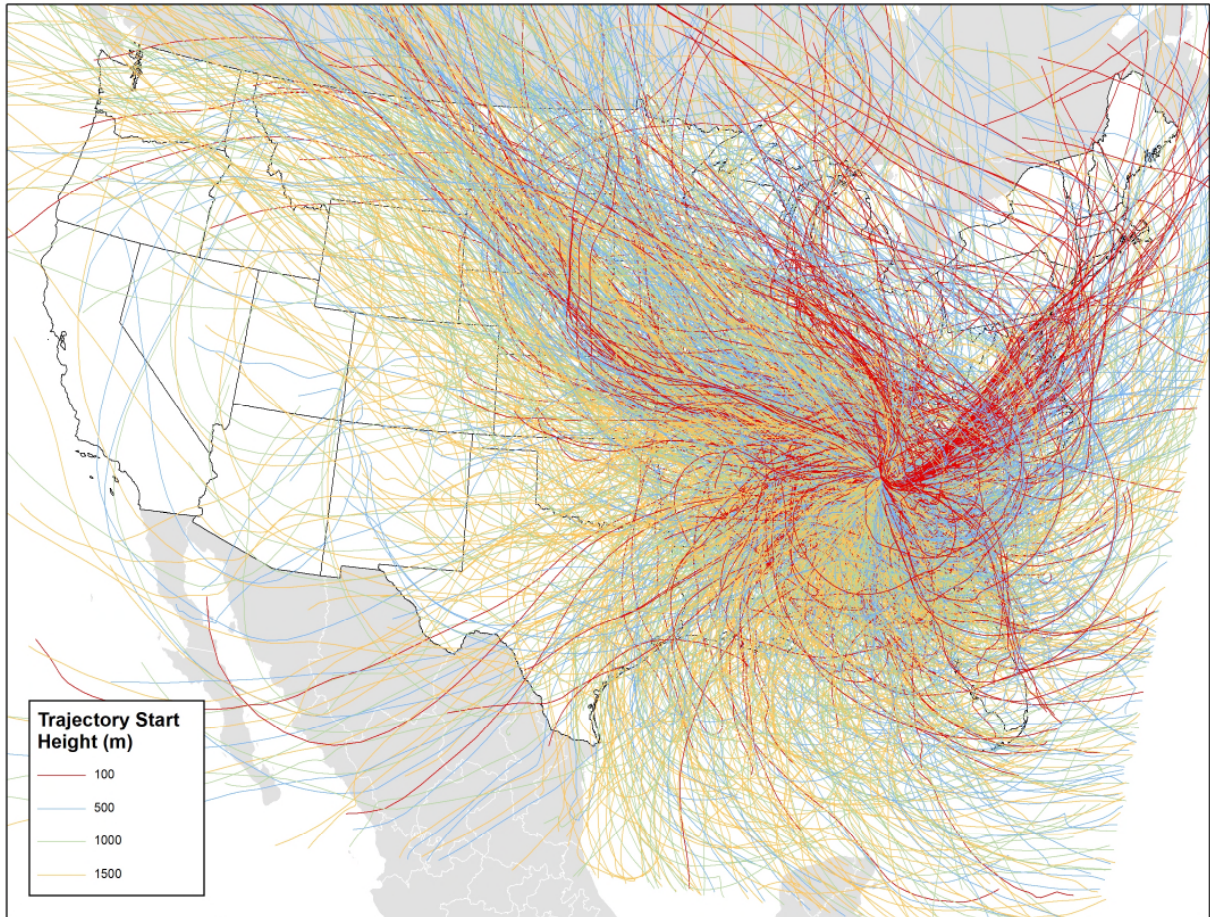
**Figure 1: 100-Meter Back Trajectories for the 20% Most Impaired Visibility Days (2011-2016), from Cohutta Wilderness Area**

Class1 site: 10 Year: 2011-2016 Height: 100.00

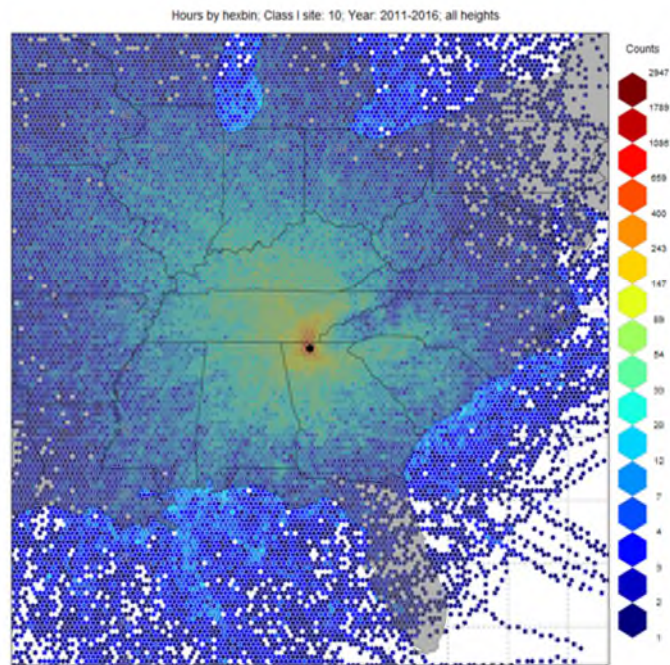
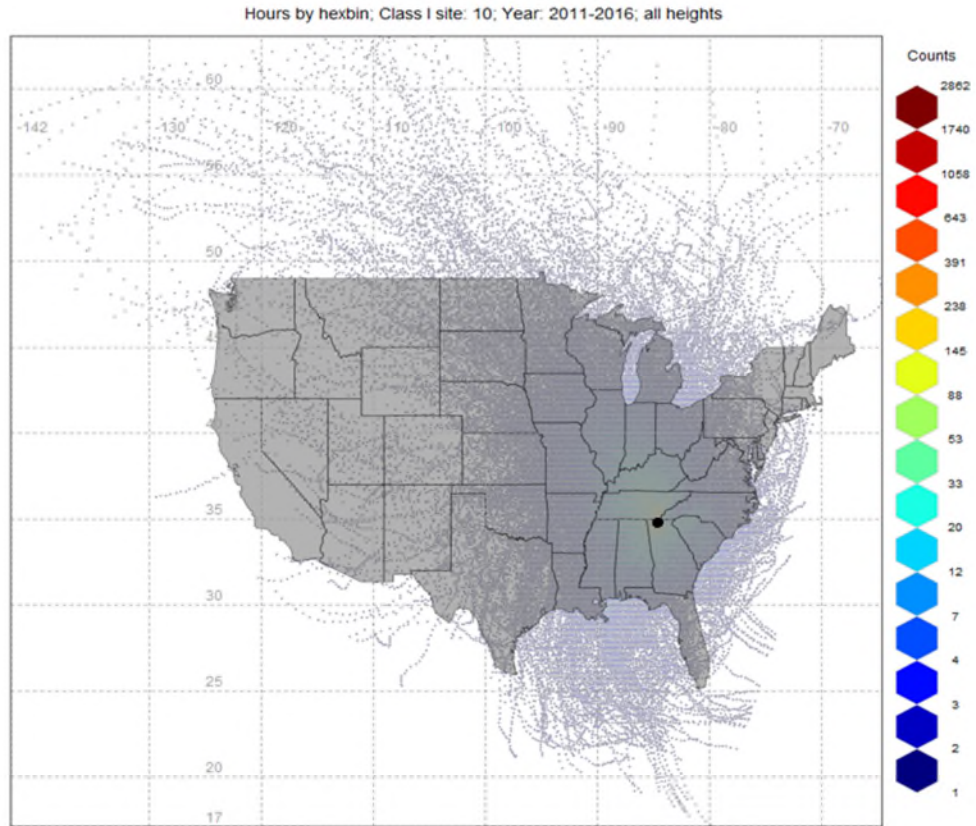


**Figure 2: 100-Meter Back Trajectories by Season for the 20% Most Impaired Visibility Days (2011-2016) from Cohutta Wilderness Area**

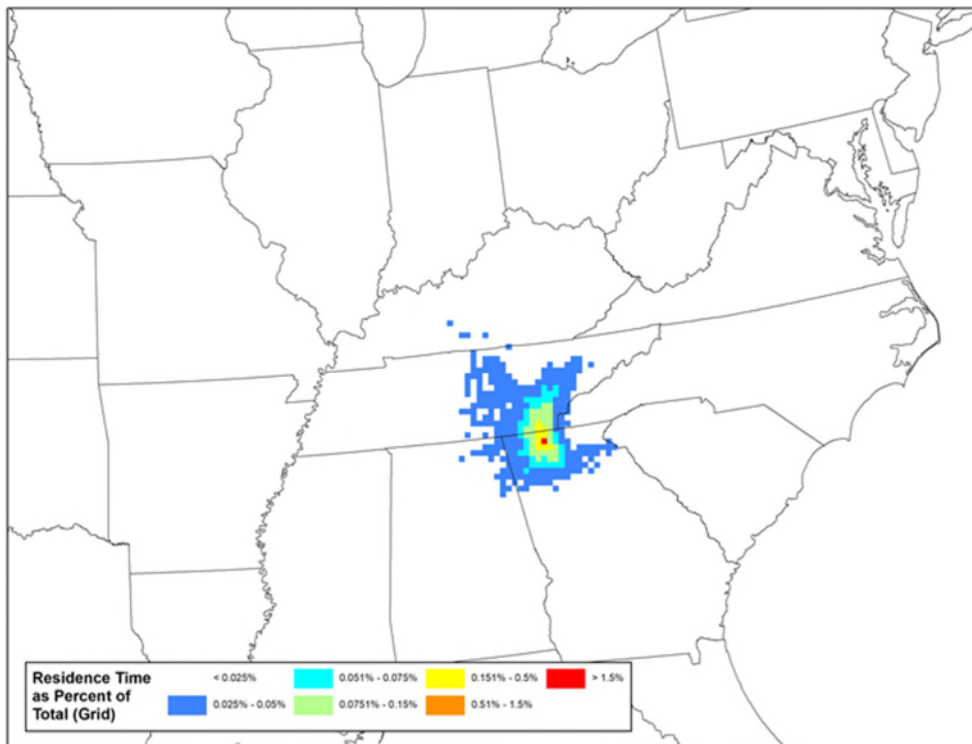
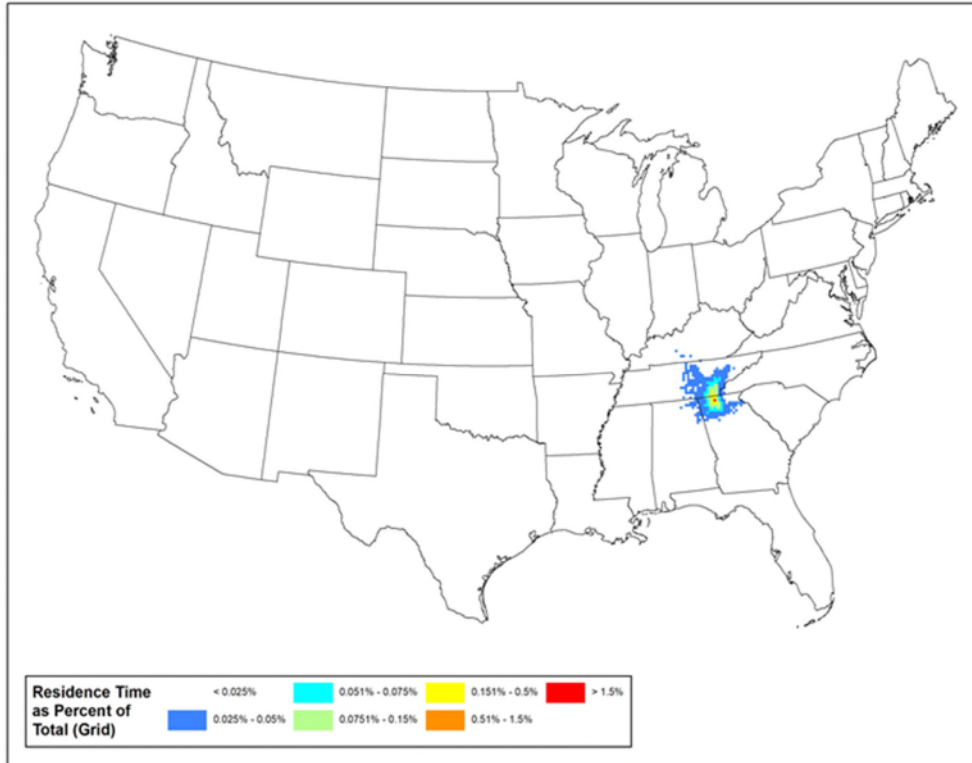




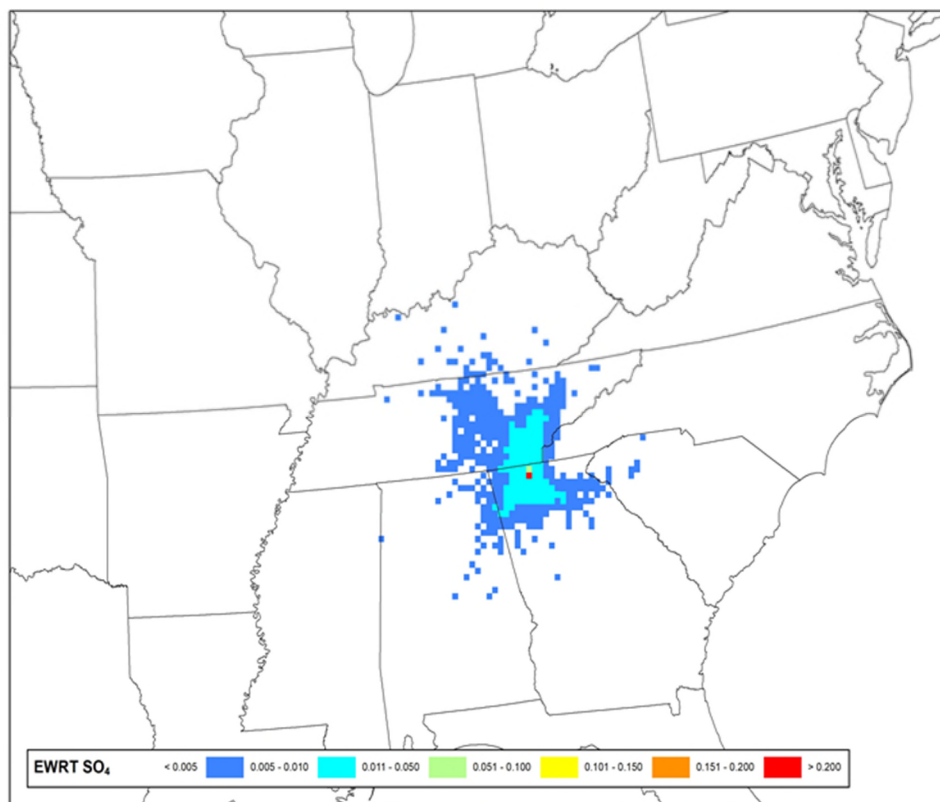
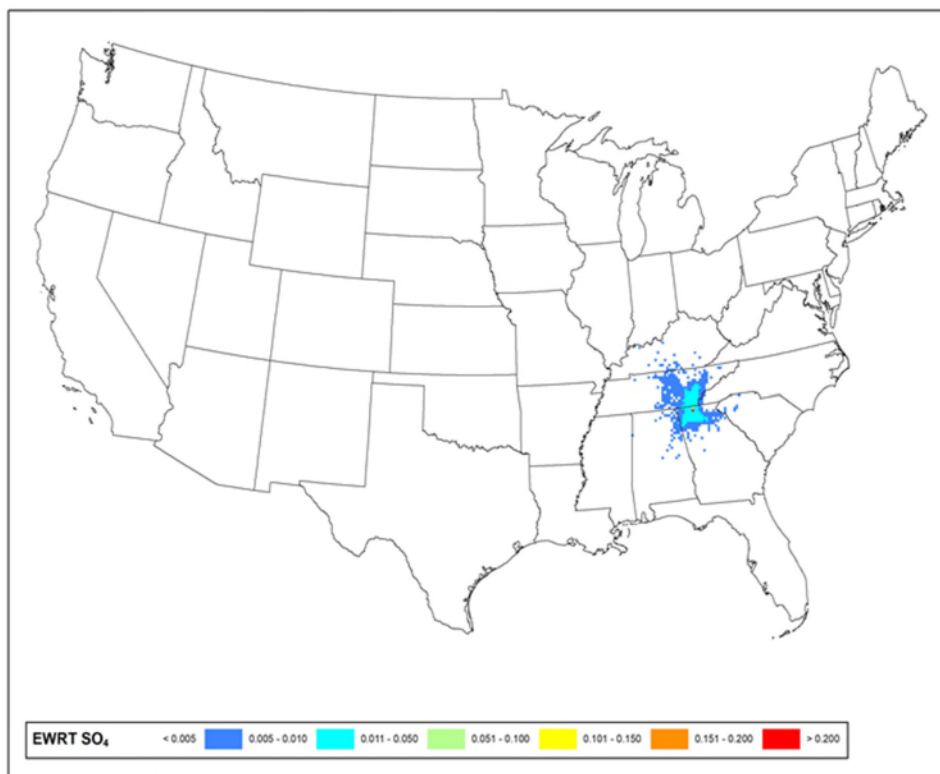
**Figure 3: 100-Meter, 500-Meter, 1000-Meter, and 1500-Meter Back Trajectories for the 20% Most Impaired Days (2011-2016) from Cohutta Wilderness Area**



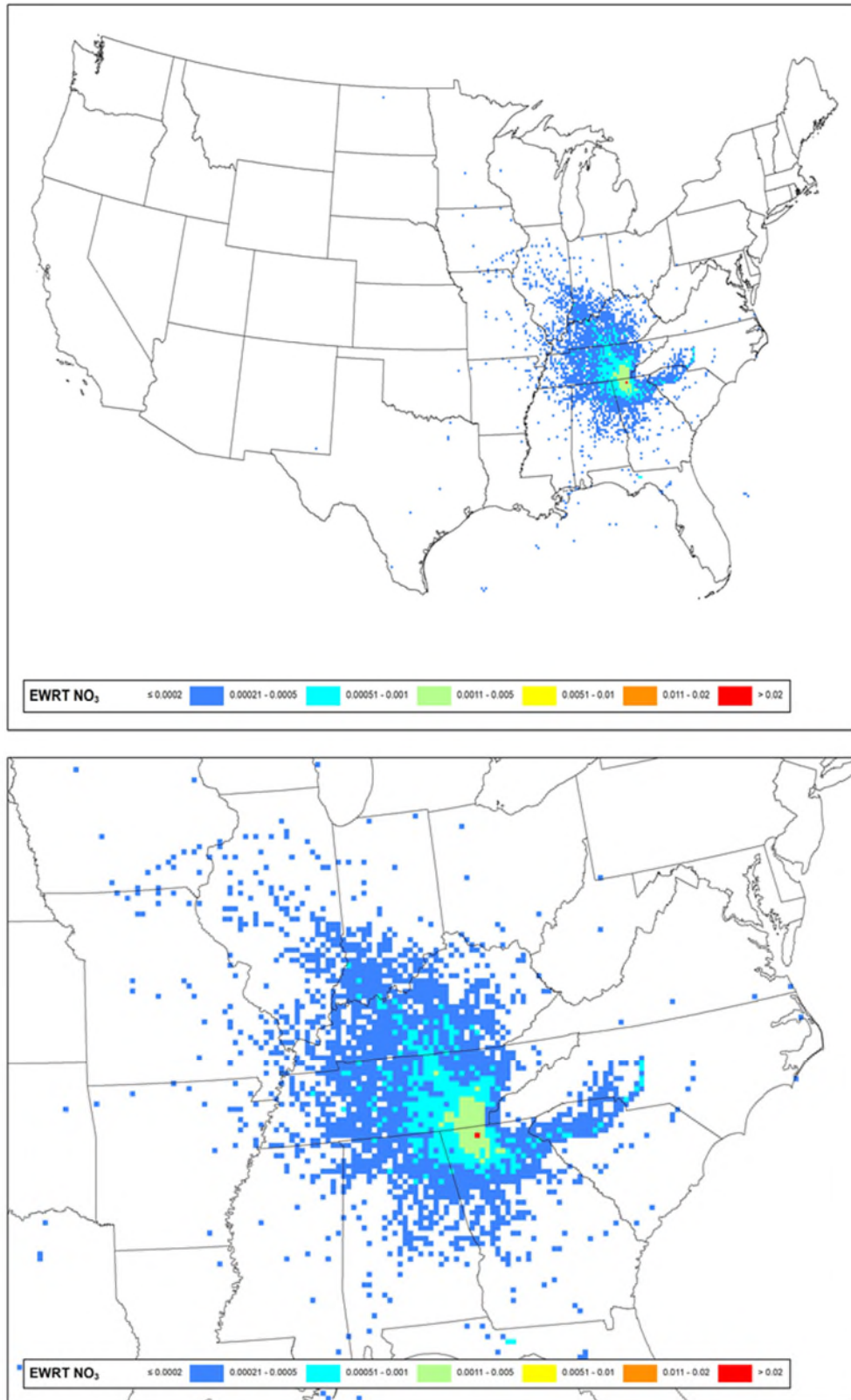
**Figure 4: Residence Time (Counts per 12km Modeling Grid Cell) for Cohutta Wilderness Area – Full View (top) and Class I Zoom (bottom)**



**Figure 5: Residence Time (% of Total Counts per 12km Modeling Grid Cell for Cohutta Wilderness Area – Full View (top) and Class I Zoom (bottom))**



**Figure 6: Sulfate Extinction Weighted Residence Time (Sulfate EWRT per 12km Modeling Grid Cell) for Cohutta Wilderness Area - Full View (top) and Class I Zoom (bottom)**



**Figure 7: Nitrate Extinction Weighted Residence Time (Nitrate EWRT per 12-km Modeling Grid Cell) for Cohutta Wilderness Area - Full View (top) and Class I Zoom (bottom)**

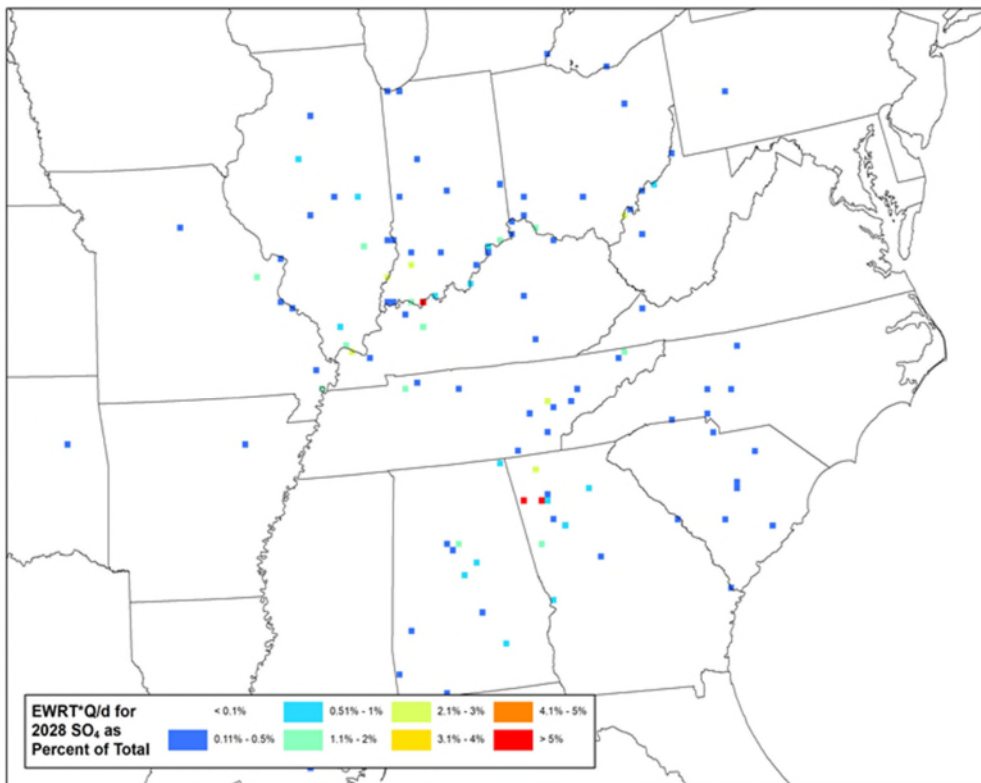
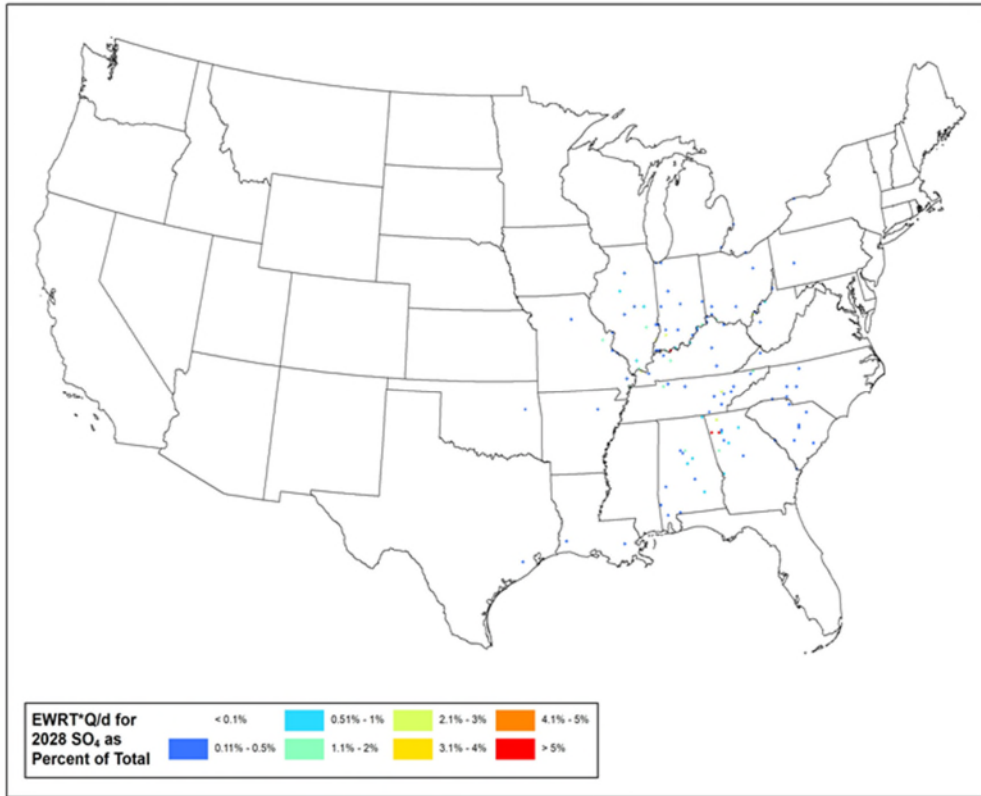
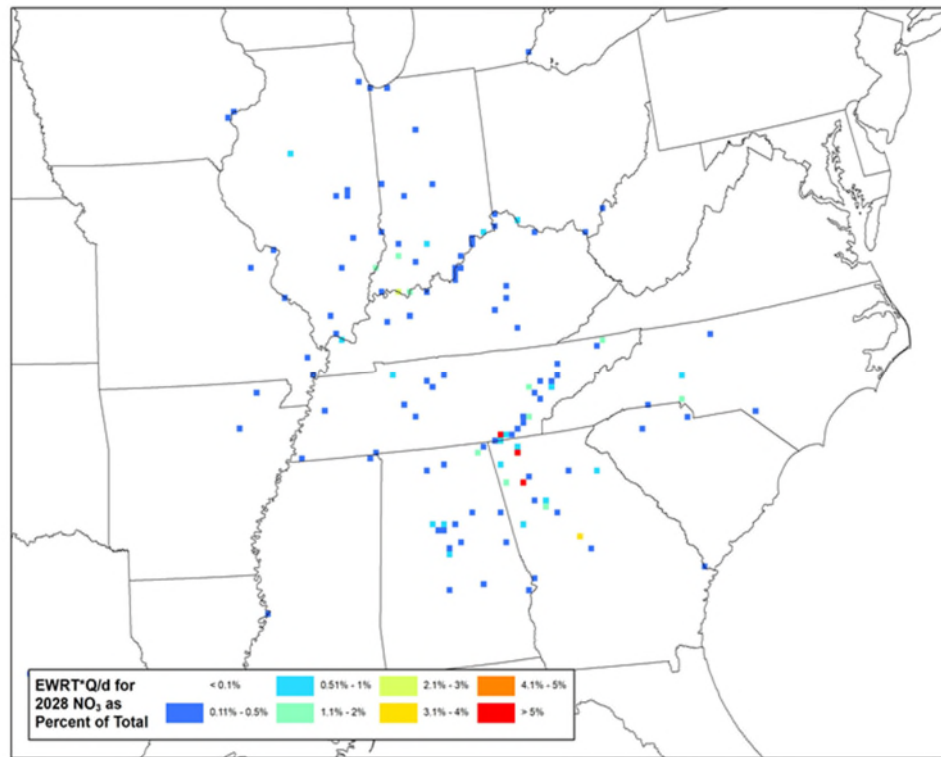
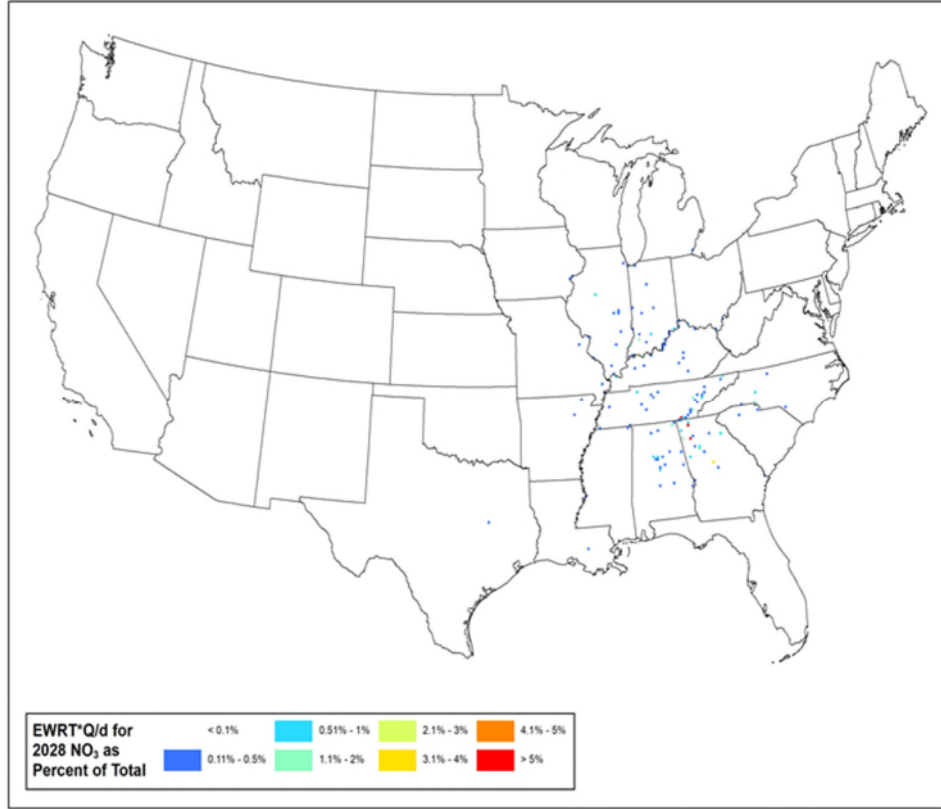


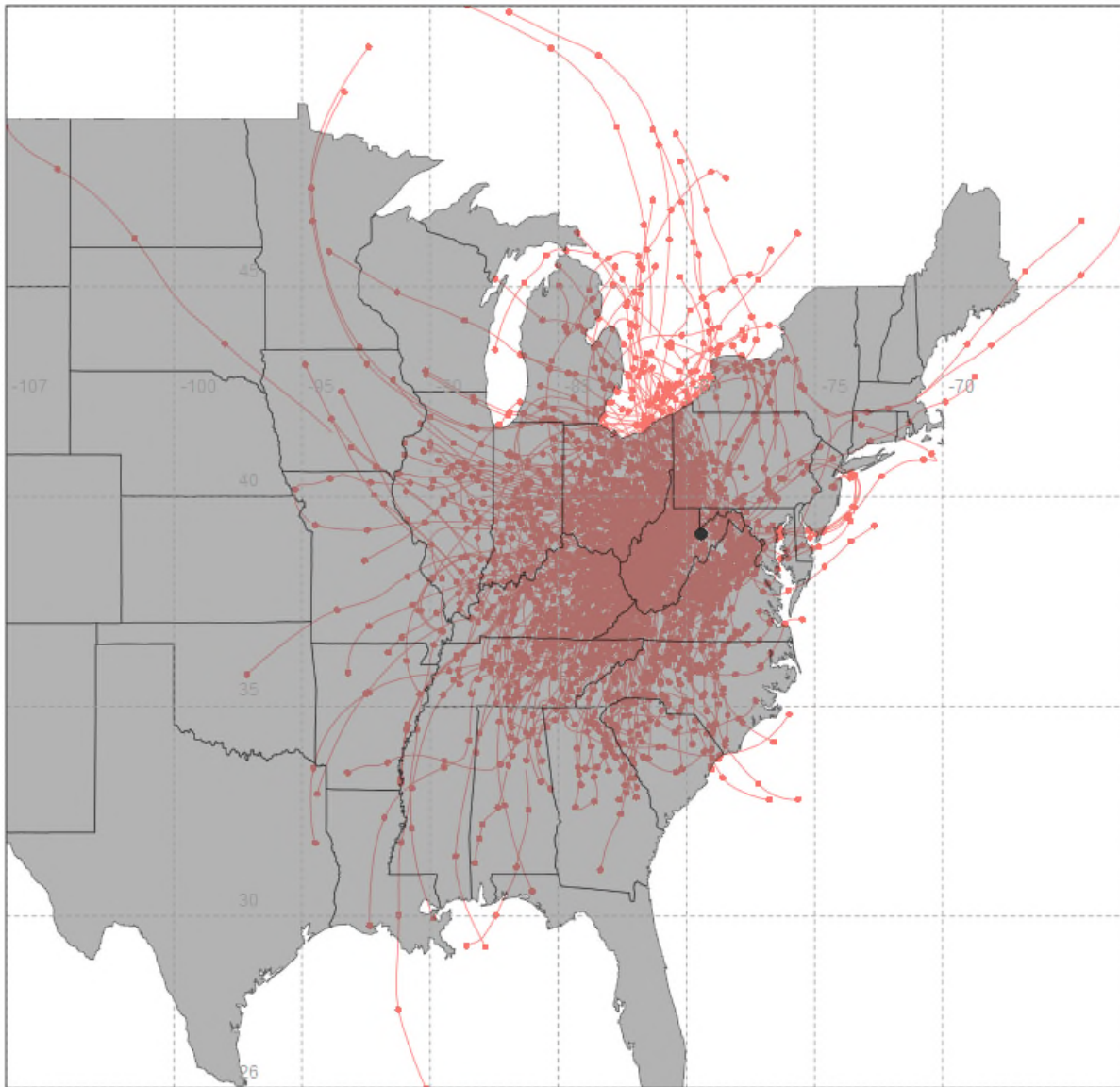
Figure 8: Sulfate Emissions/Distance Extinction Weighted Residence Time (% of Total Q/d\*EWRT per 12km Modeling Grid Cell) for Cohutta Wilderness Area – Full View (top) and Class I Zoom (bottom)



**Figure 9: Nitrate Emissions/Distance Extinction Weighted Residence Time (% of Total Q/d\*EWRT per 12km Modeling Grid Cell) for Cohutta Wilderness Area – Full View (top) and Class I Zoom (bottom)**

## Dolly Sods Wilderness Area

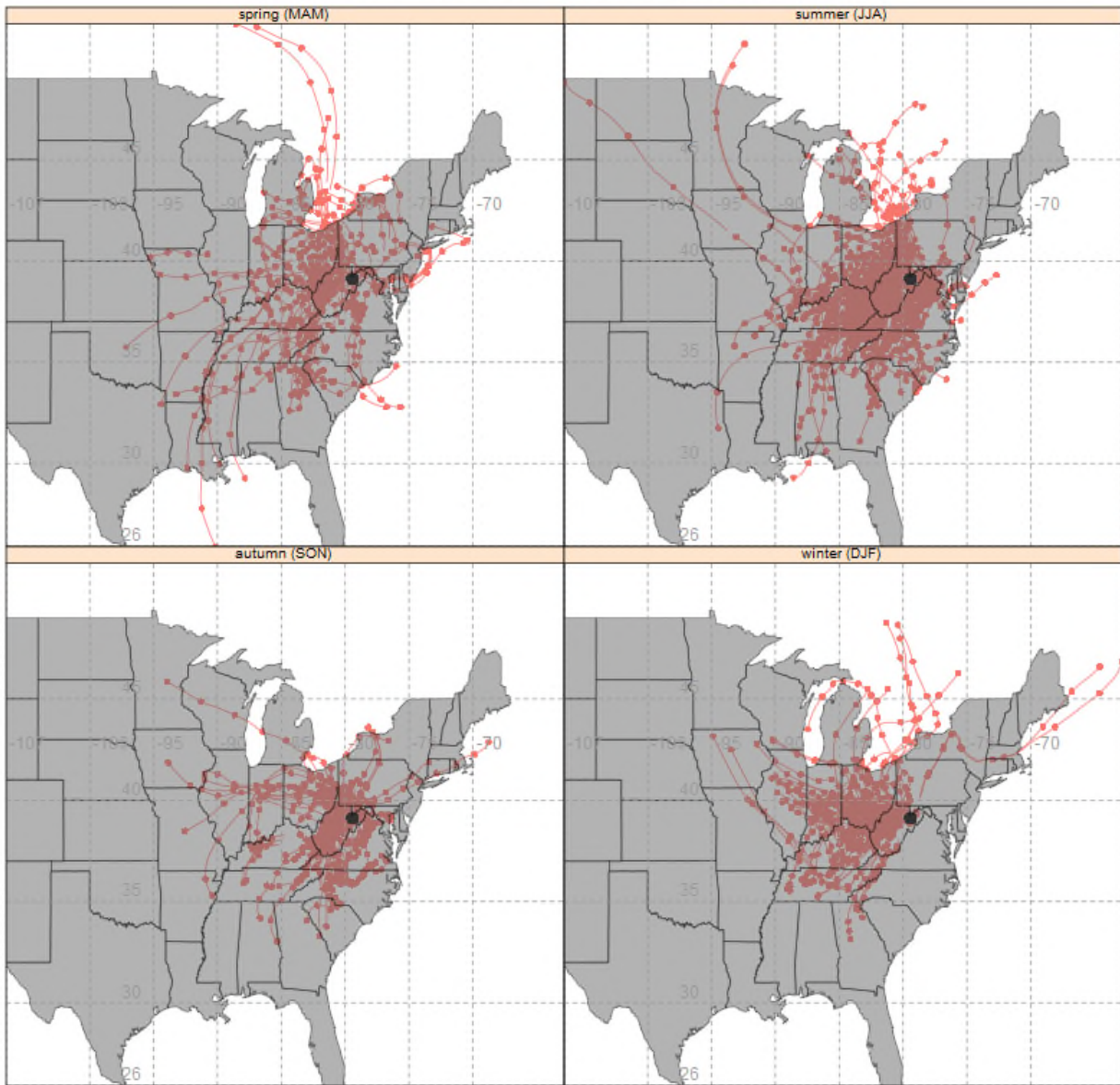
Class1 site: 11 Year: 2011-2016 Height: 100.00



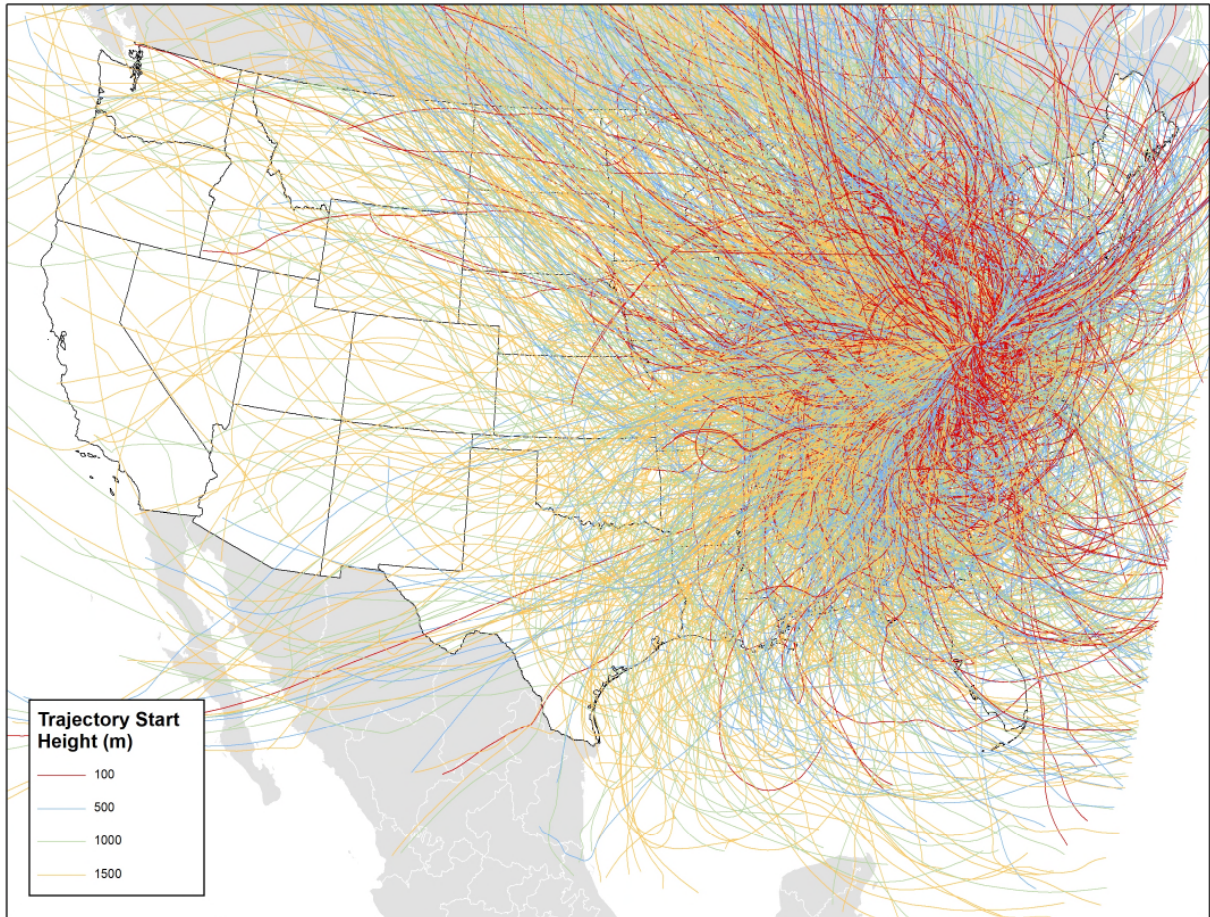
**Figure 1: 100-Meter Back Trajectories for the 20% Most Impaired Visibility Days (2011-2016), from Dolly Sods Wilderness Area**



Class1 site: 11 Year: 2011-2016 Height: 100.00



**Figure 2: 100-Meter Back Trajectories by Season for the 20% Most Impaired Visibility Days (2011-2016) from Dolly Sods Wilderness Area**



**Figure 3: 100-Meter, 500-Meter, 1000-Meter, and 1500-Meter Back Trajectories for the 20% Most Impaired Days (2011-2016) from Dolly Sods Wilderness Area**

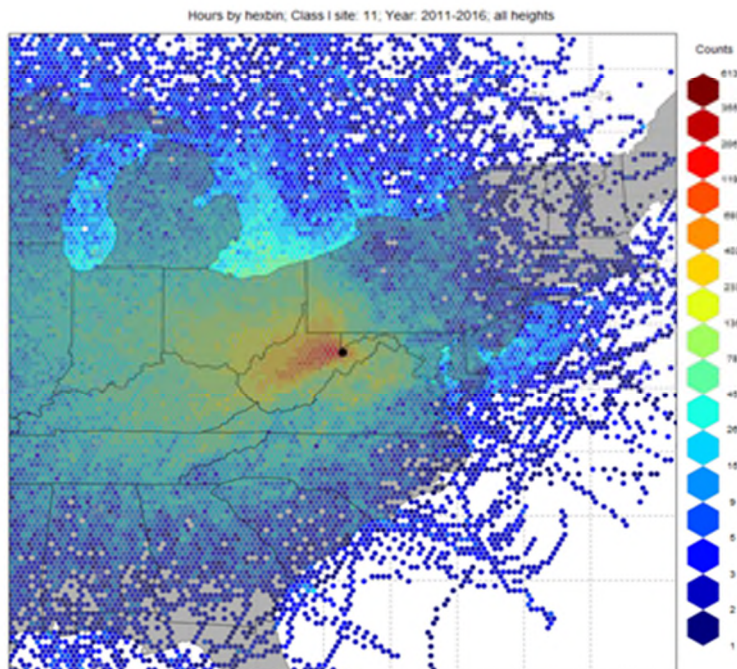
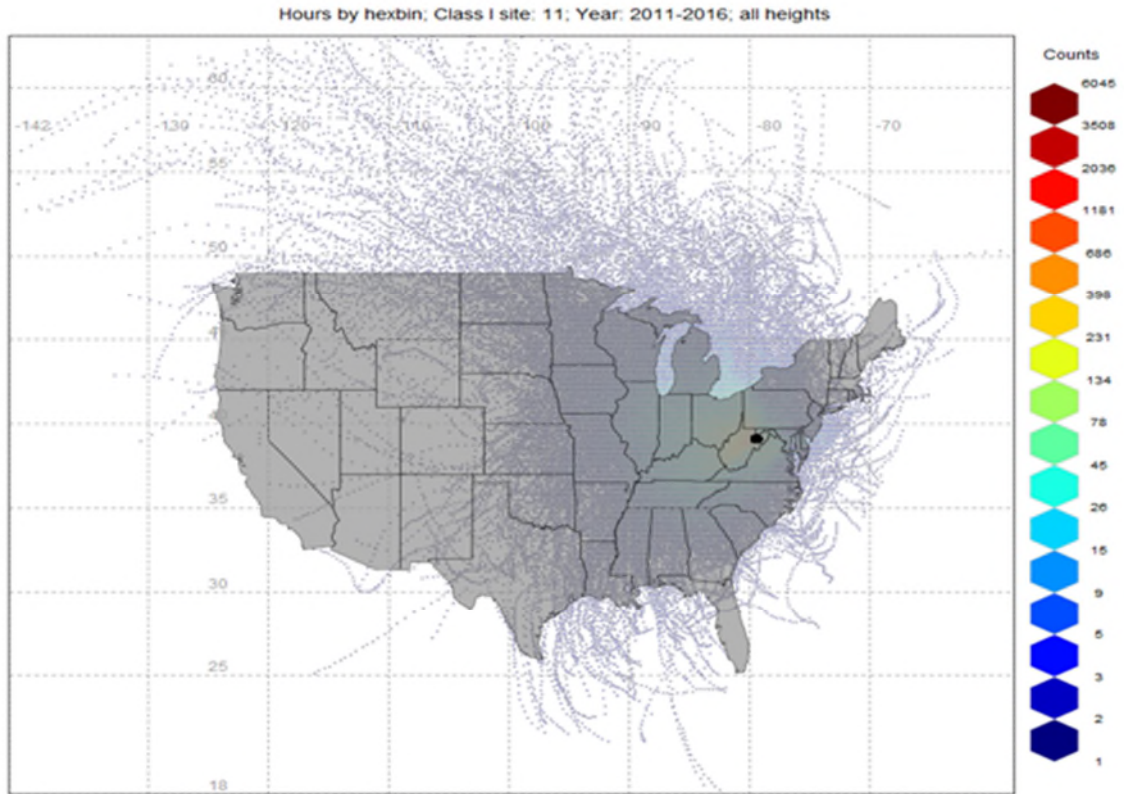
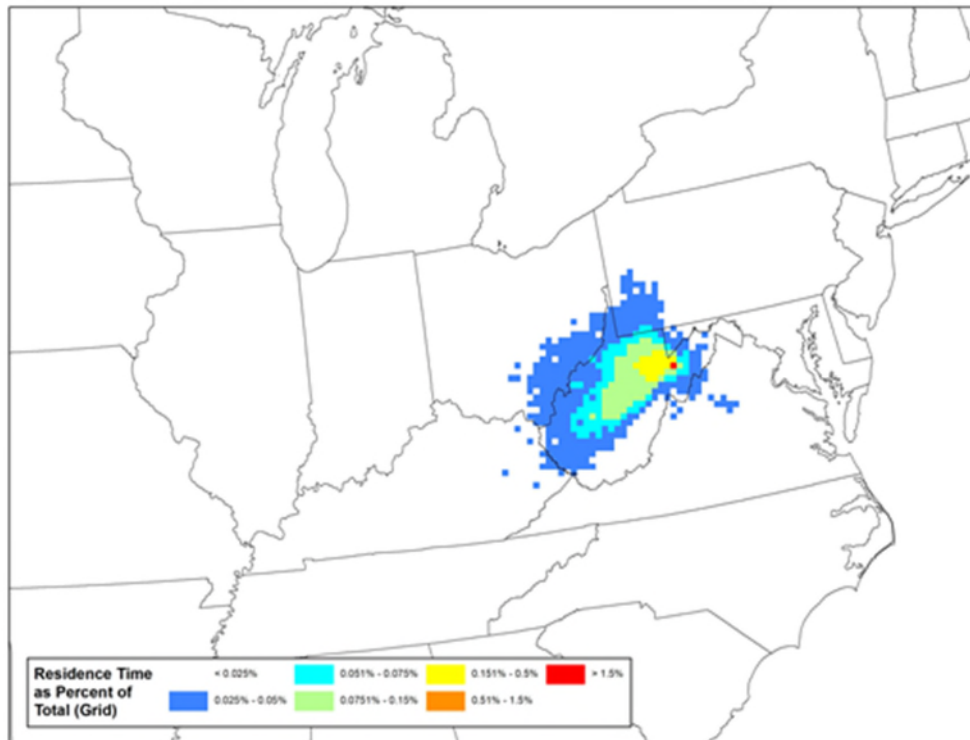
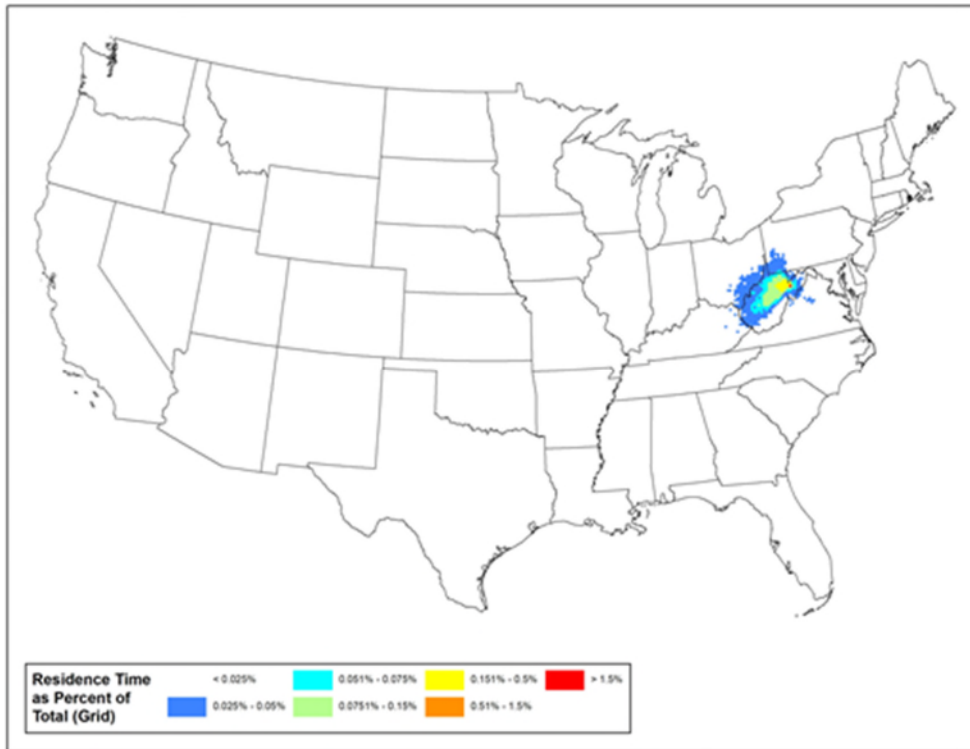
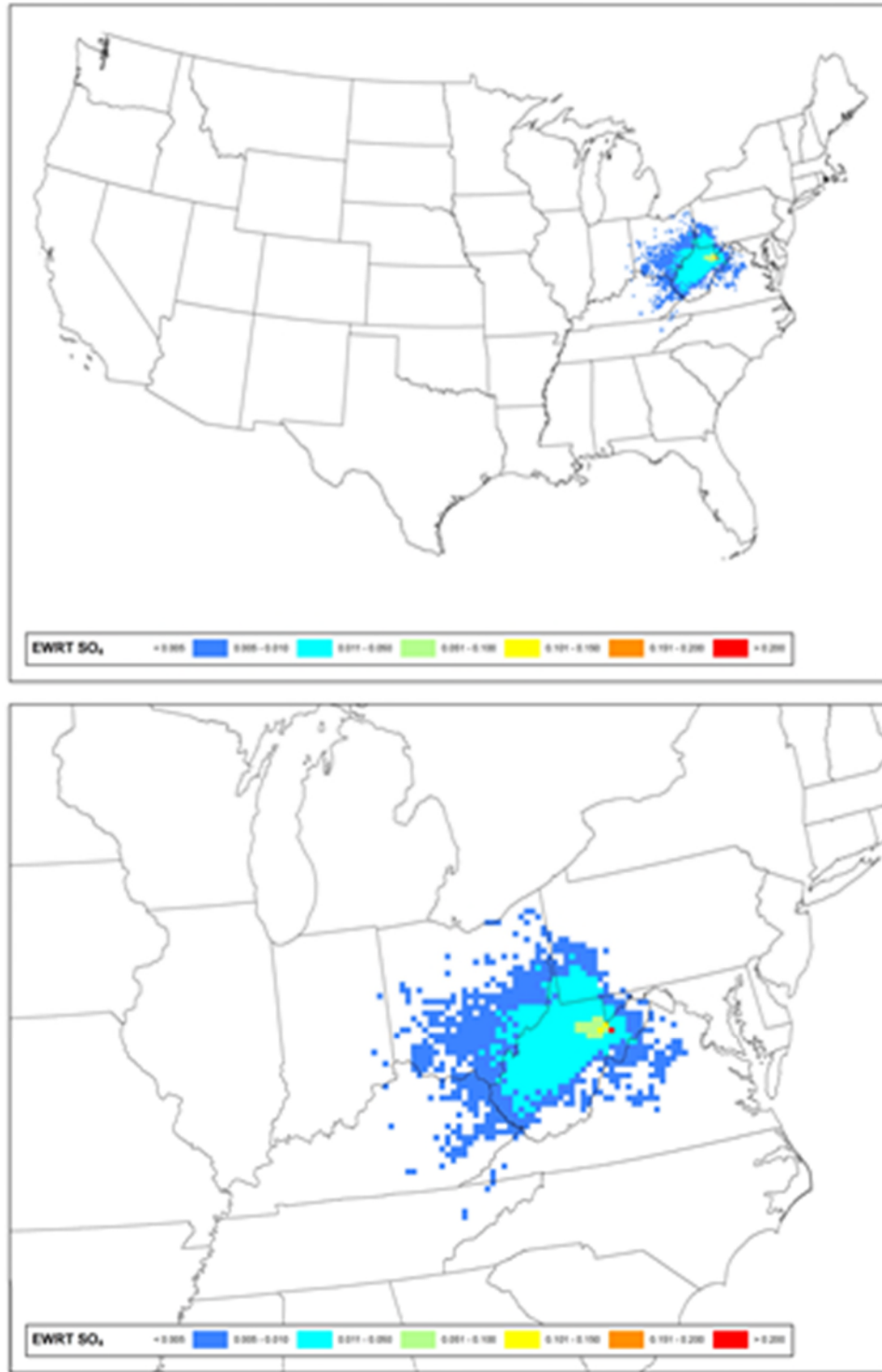


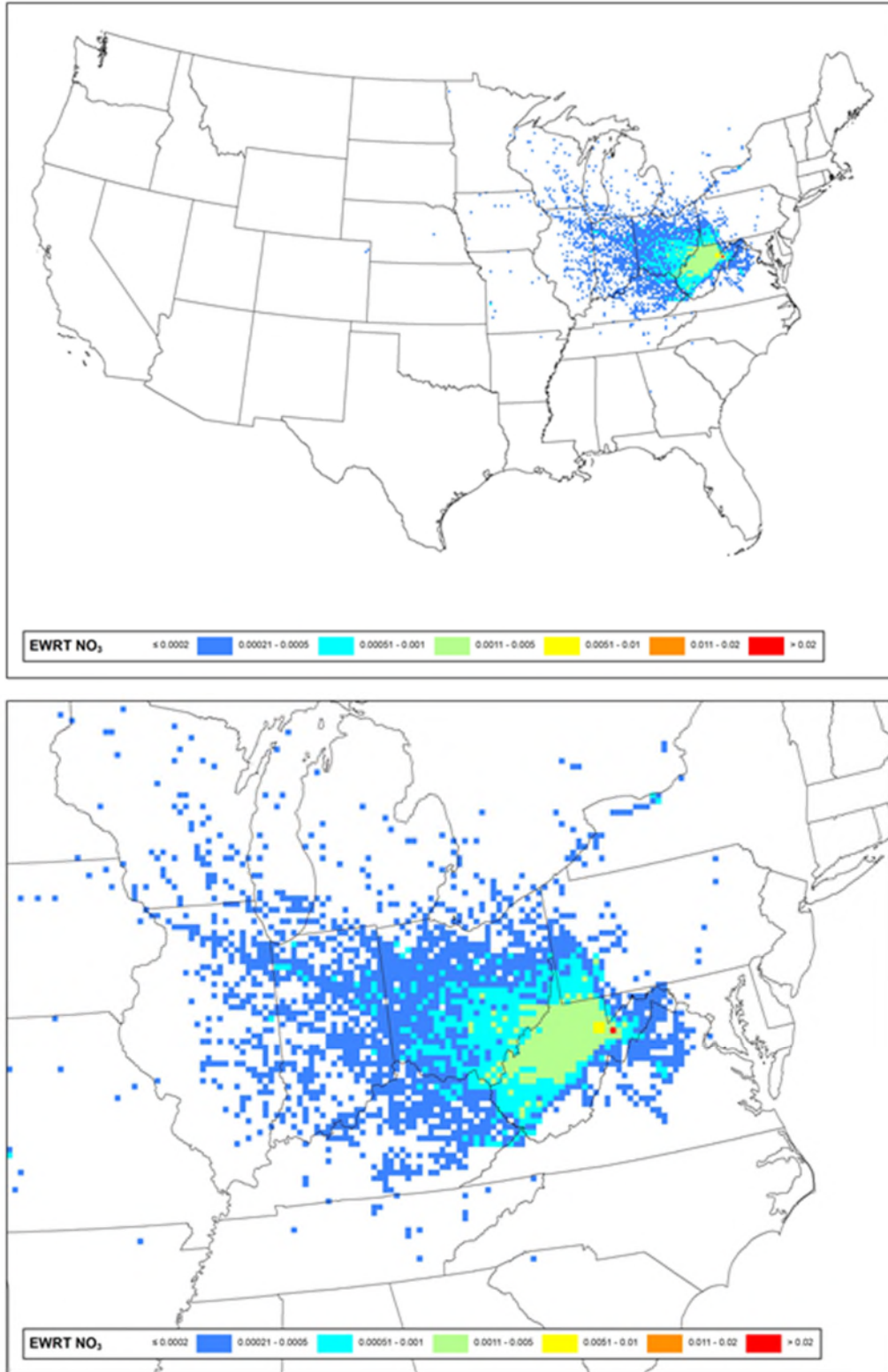
Figure 4: Residence Time (Counts per 12km Modeling Grid Cell) for Dolly Sods Wilderness Area – Full View (top) and Class I Zoom (bottom)



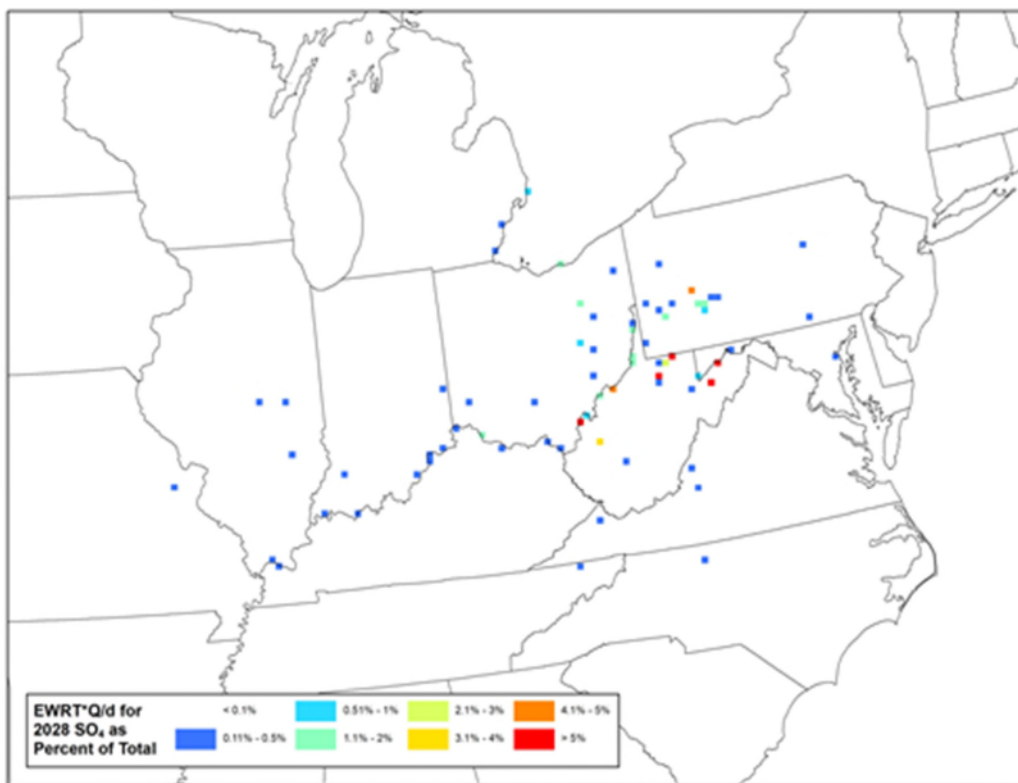
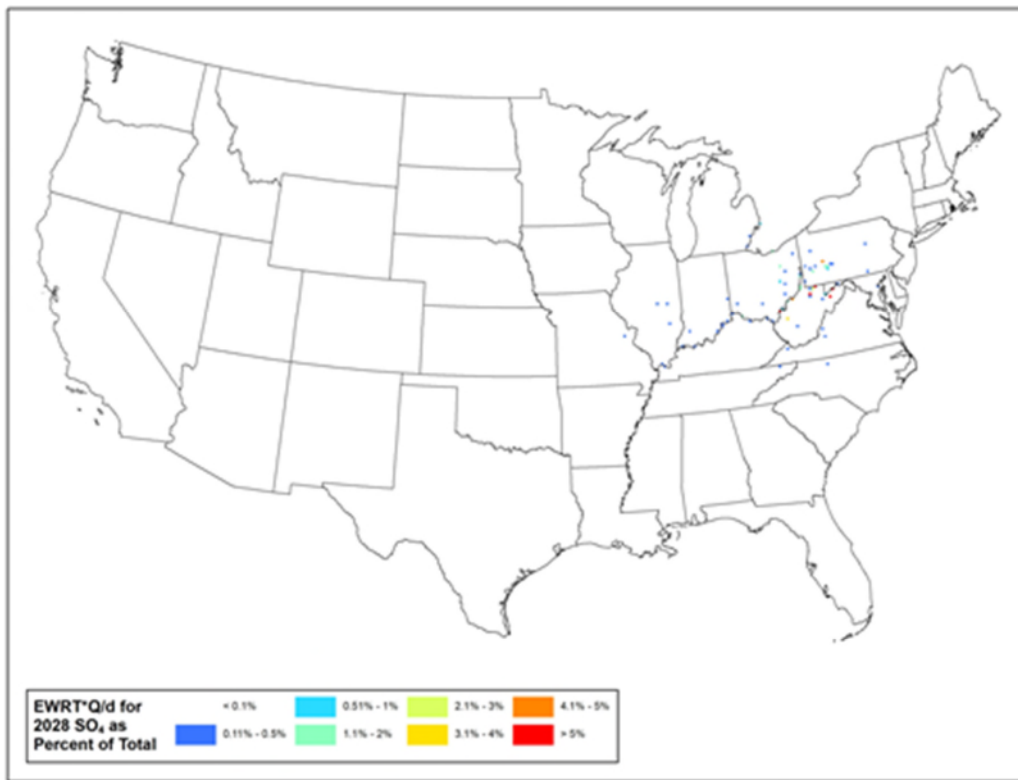
**Figure 5: Residence Time (% of Total Counts per 12km Modeling Grid Cell for Dolly Sods Wilderness Area – Full View (top) and Class I Zoom (bottom))**



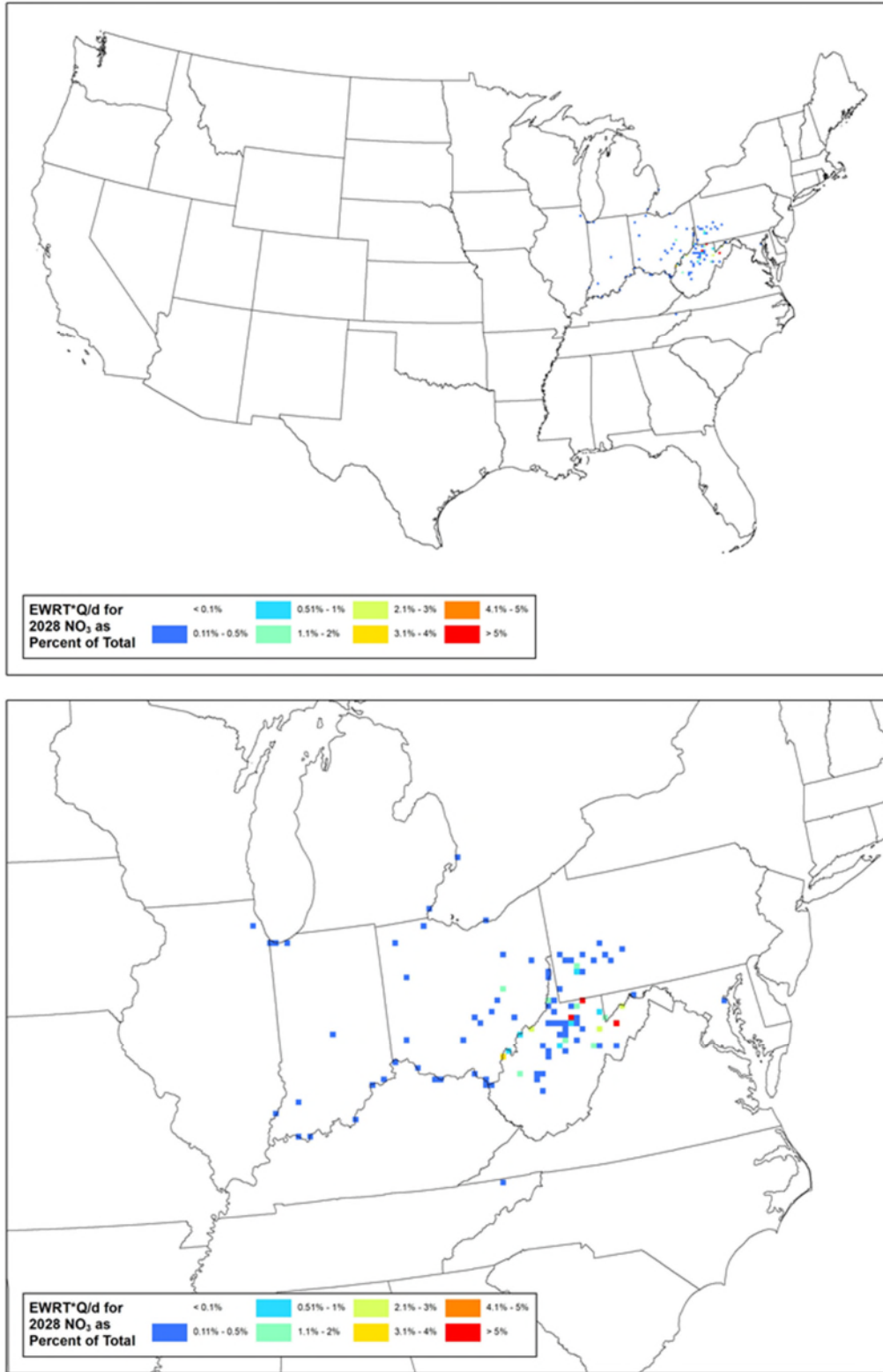
**Figure 6: Sulfate Extinction Weighted Residence Time (Sulfate EWRT per 12km Modeling Grid Cell) for Dolly Sods Wilderness Area - Full View (top) and Class I Zoom (bottom)**



**Figure 7: Nitrate Extinction Weighted Residence Time (Nitrate EWRT per 12-km Modeling Grid Cell) for Dolly Sods Wilderness Area - Full View (top) and Class I Zoom (bottom)**



**Figure 8: Sulfate Emissions/Distance Extinction Weighted Residence Time (% of Total Q/d\*EWRT per 12km Modeling Grid Cell) for Dolly Sods Wilderness Area – Full View (top) and Class I Zoom (bottom)**

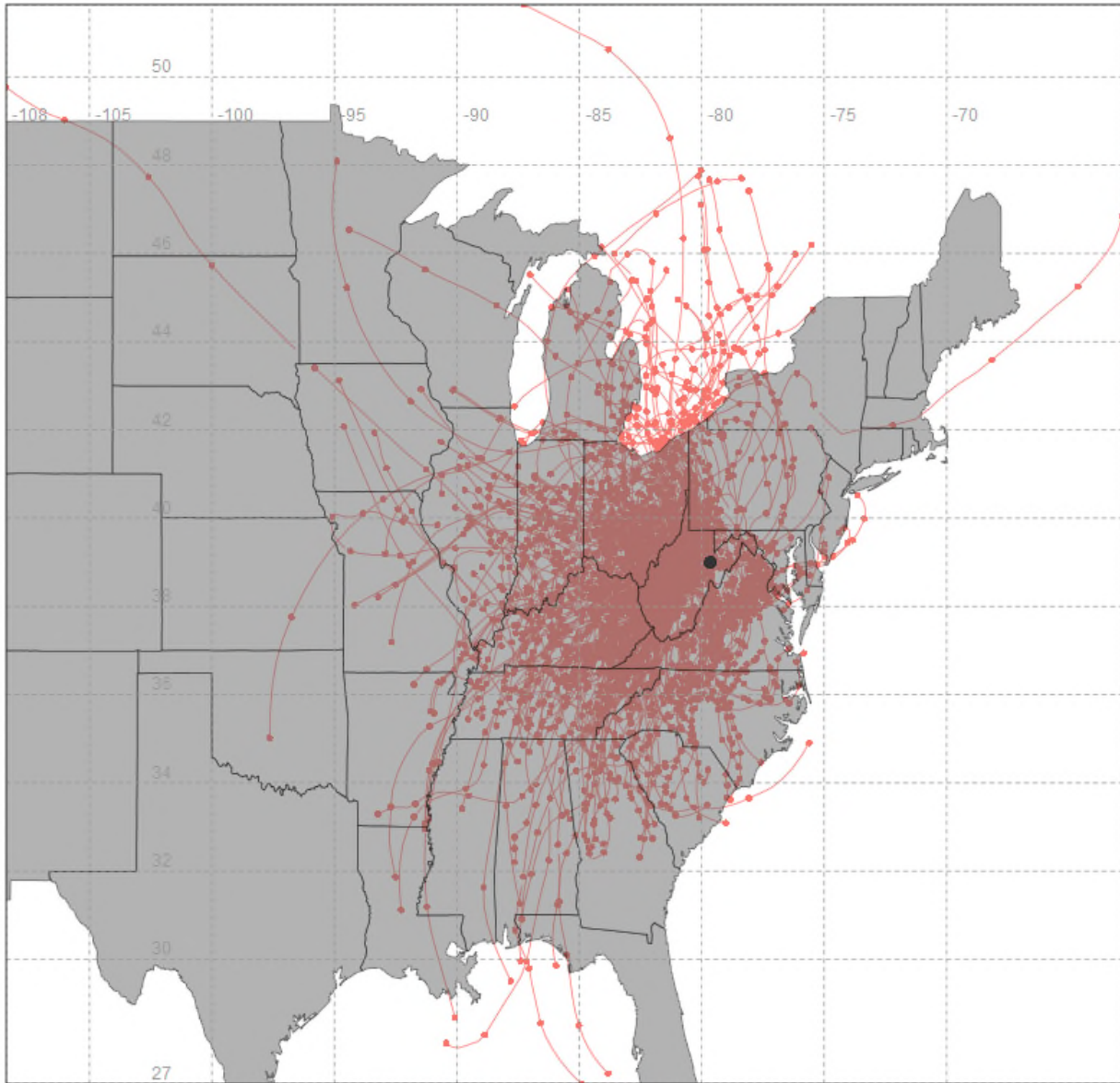


**Figure 9: Nitrate Emissions/Distance Extinction Weighted Residence Time (% of Total Q/d\*EWRT per 12km Modeling Grid Cell) for Dolly Sods Wilderness Area – Full View (top) and Class I Zoom (bottom)**



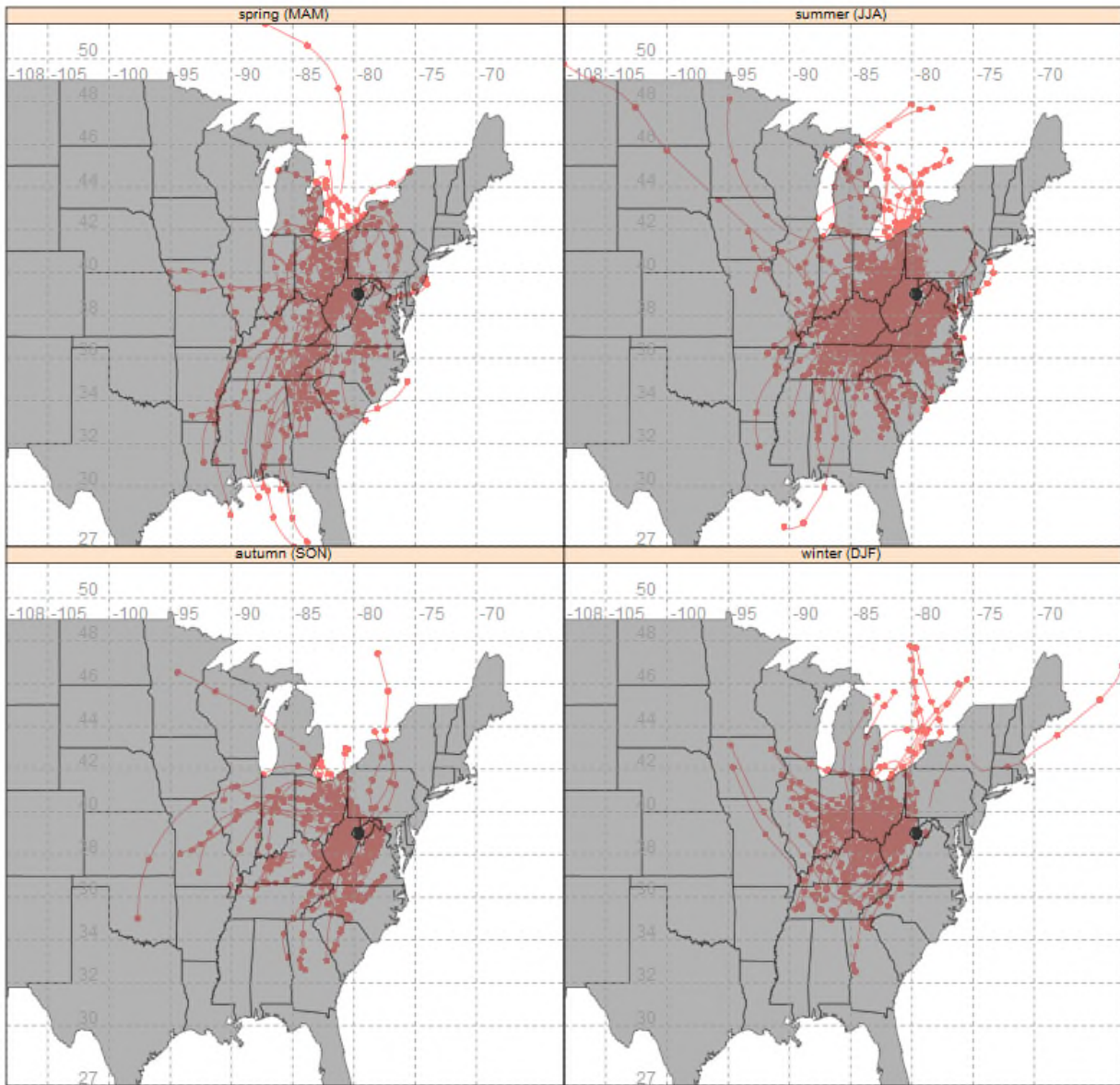
# Otter Creek Wilderness Area

Class1 site: 12 Year: 2011-2016 Height: 100.00

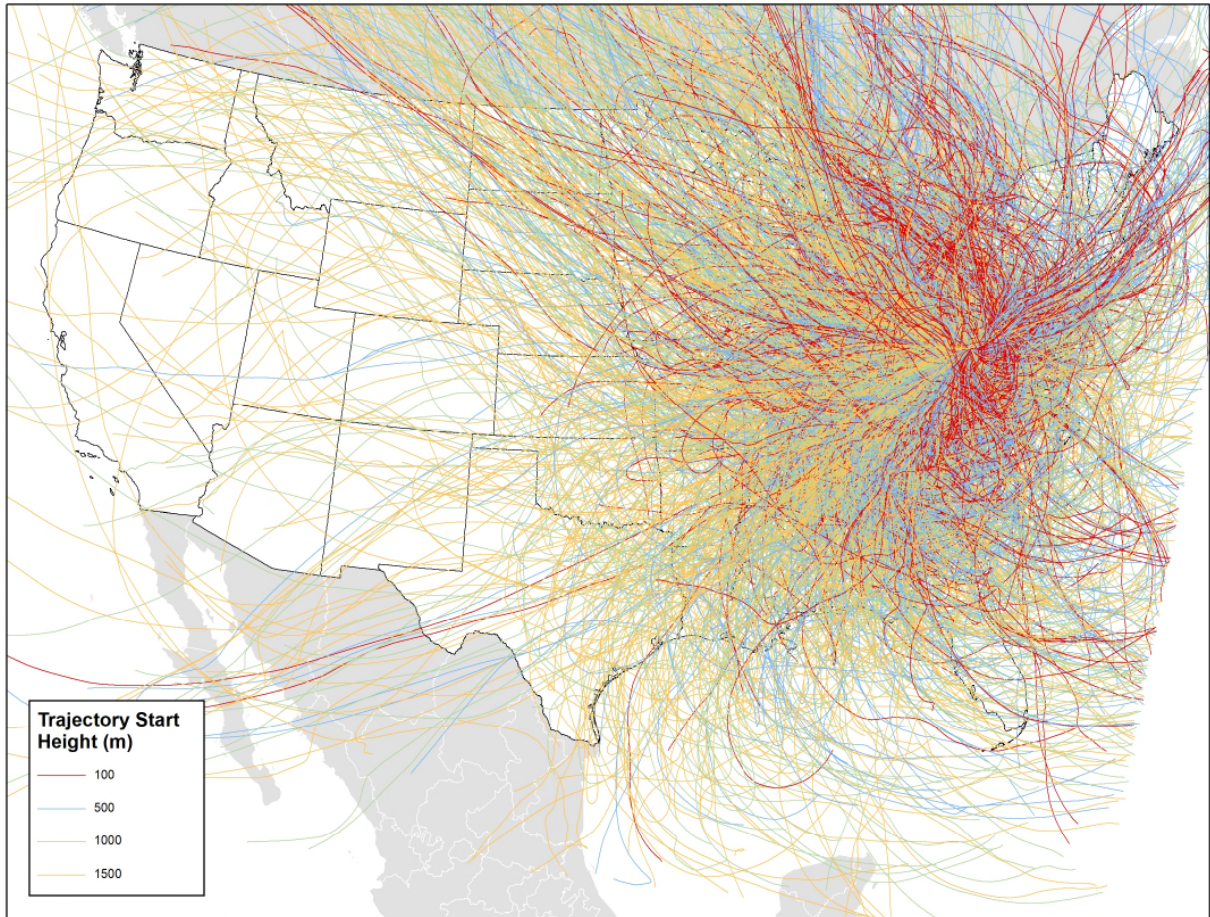


**Figure 1: 100-Meter Back Trajectories for the 20% Most Impaired Visibility Days (2011-2016), from Otter Creek Wilderness Area**

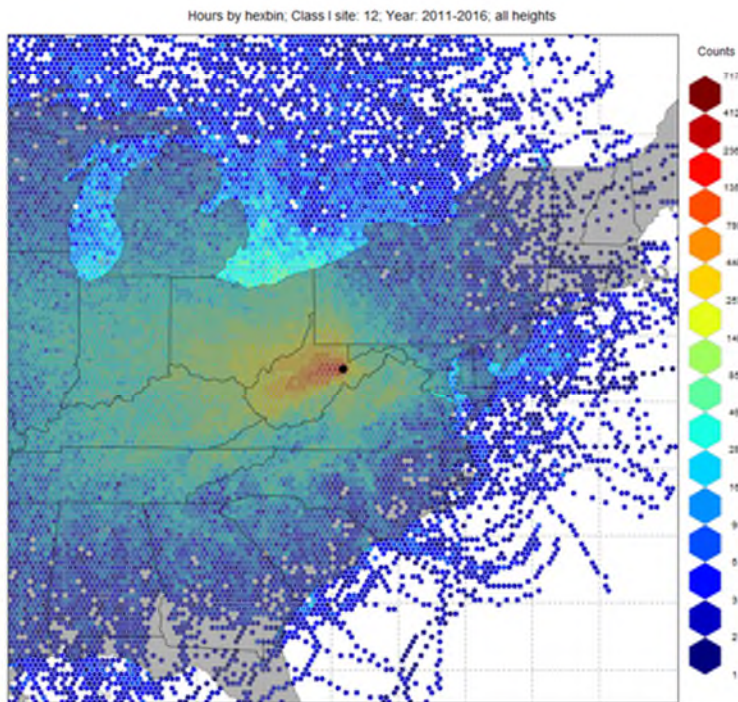
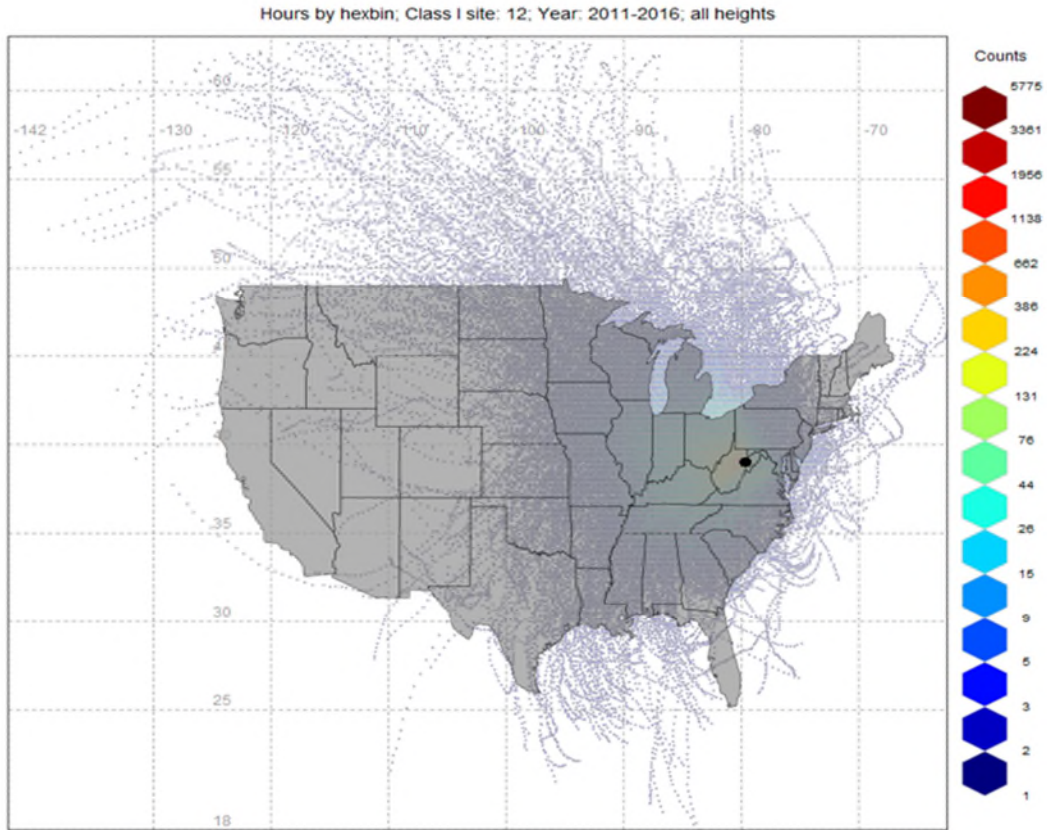
Class1 site: 12 Year: 2011-2016 Height: 100.00



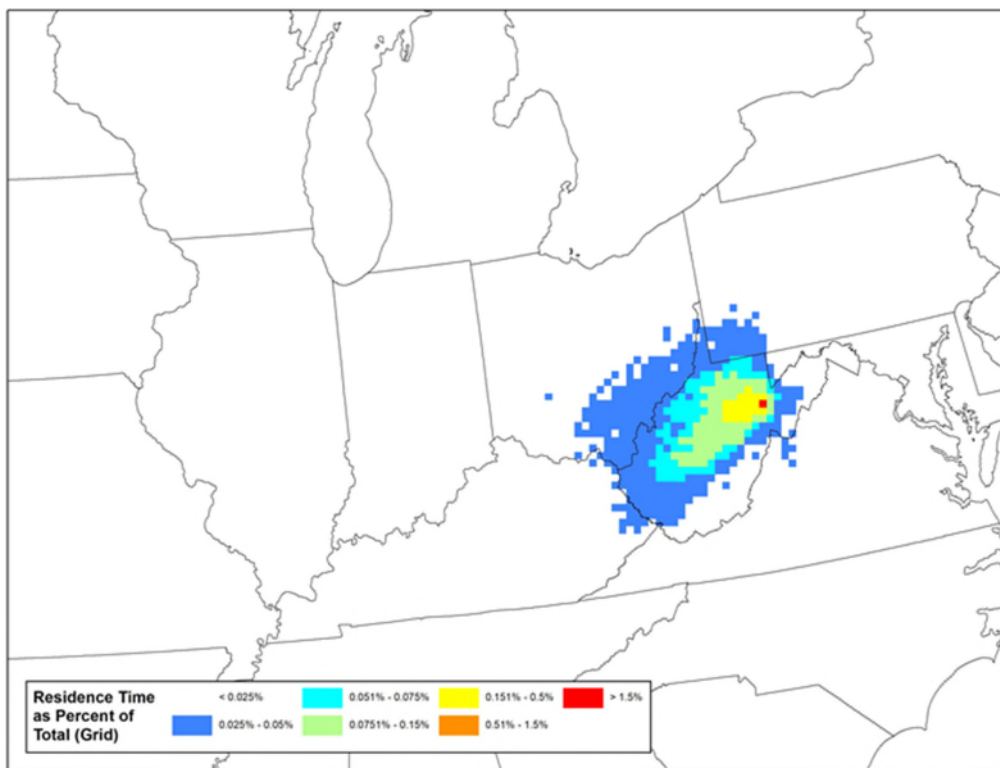
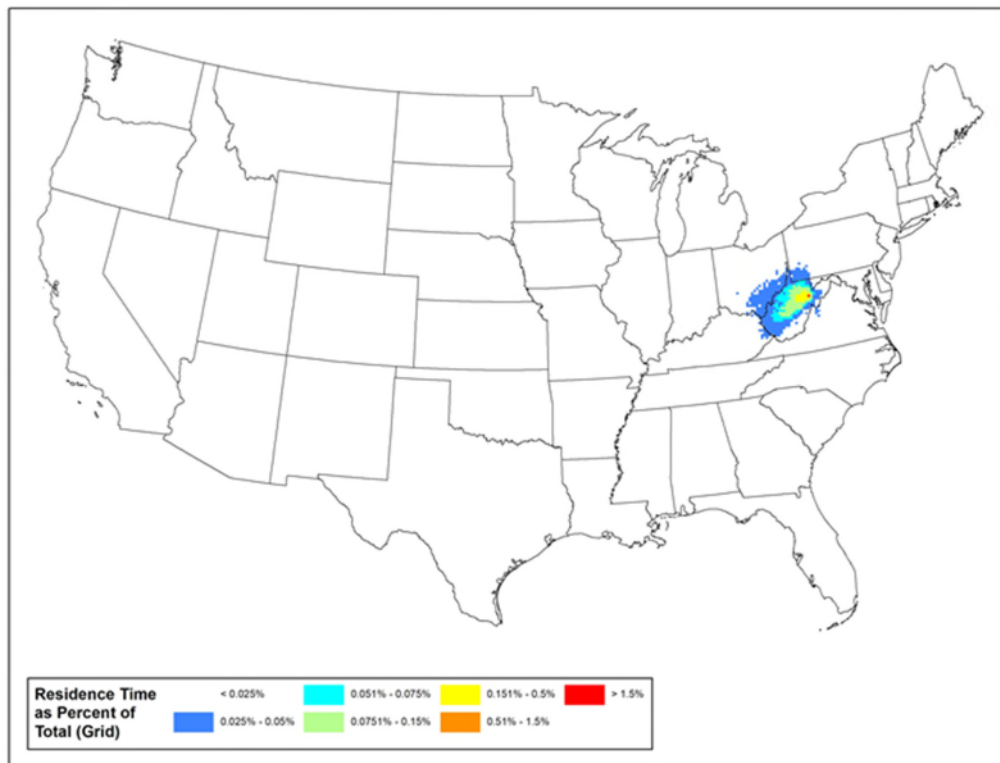
**Figure 2: 100-Meter Back Trajectories by Season for the 20% Most Impaired Visibility Days (2011-2016) from Otter Creek Wilderness Area**



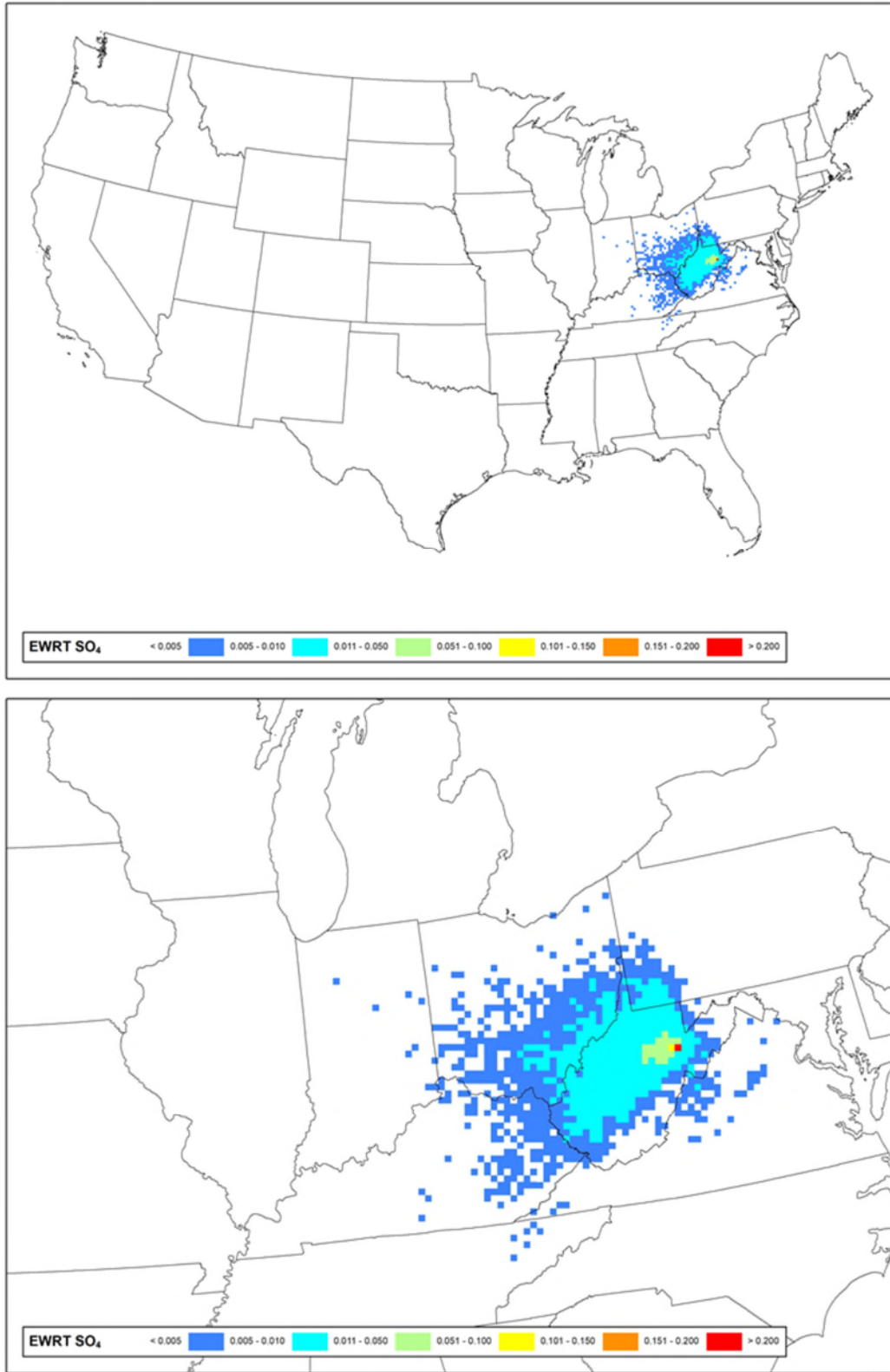
**Figure 3: 100-Meter, 500-Meter, 1000-Meter, and 1500-Meter Back Trajectories for the 20% Most Impaired Days (2011-2016) from Otter Creek Wilderness Area**



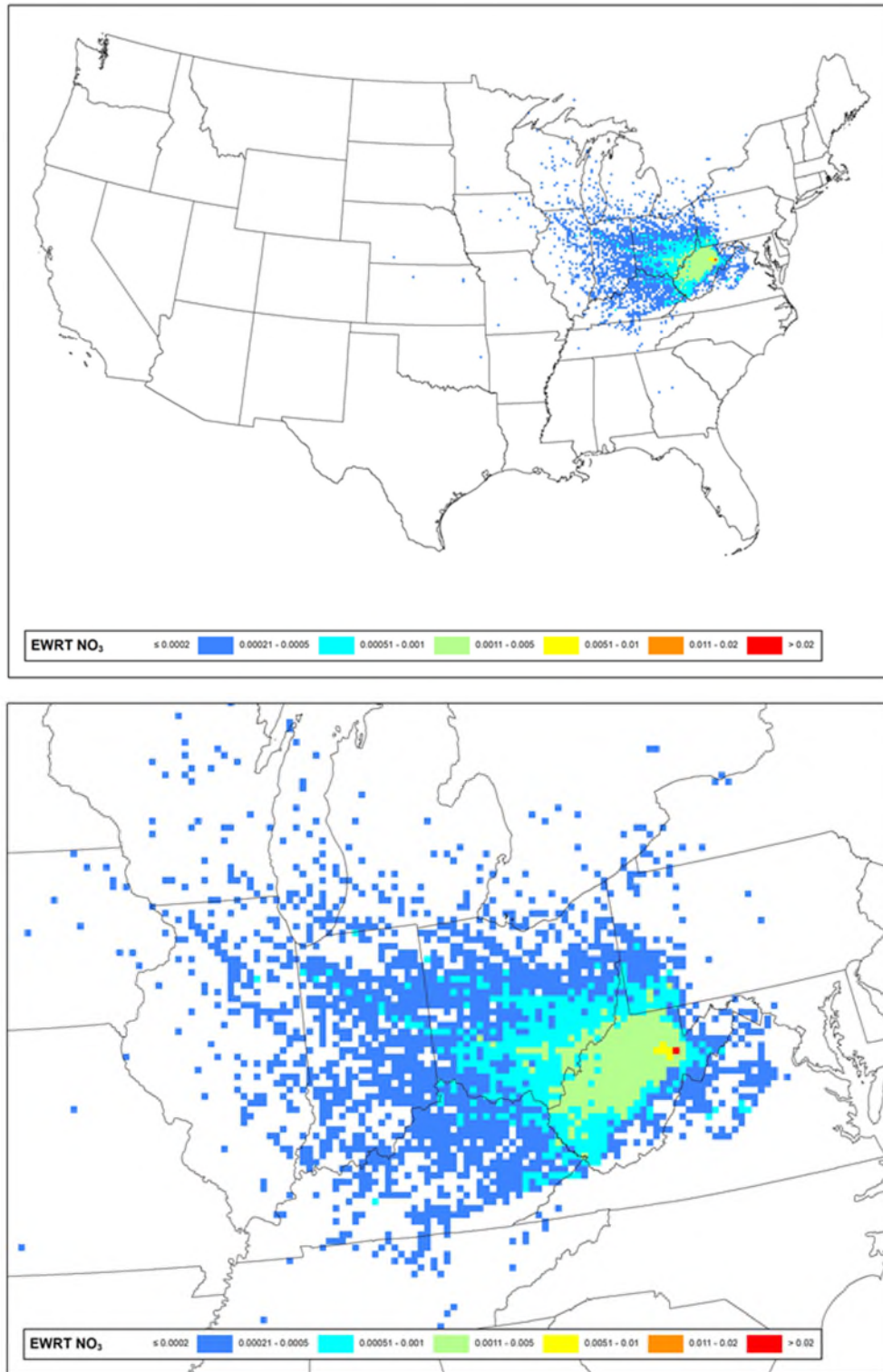
**Figure 4: Residence Time (Counts per 12km Modeling Grid Cell) for Otter Creek Wilderness Area – Full View (top) and Class I Zoom (bottom)**



**Figure 5: Residence Time (% of Total Counts per 12km Modeling Grid Cell for Otter Creek Wilderness Area – Full View (top) and Class I Zoom (bottom)**



**Figure 6: Sulfate Extinction Weighted Residence Time (Sulfate EWRT per 12km Modeling Grid Cell) for Otter Creek Wilderness Area - Full View (top) and Class I Zoom (bottom)**



**Figure 7: Nitrate Extinction Weighted Residence Time (Nitrate EWRT per 12-km Modeling Grid Cell) for Otter Creek Wilderness Area - Full View (top) and Class I Zoom (bottom)**

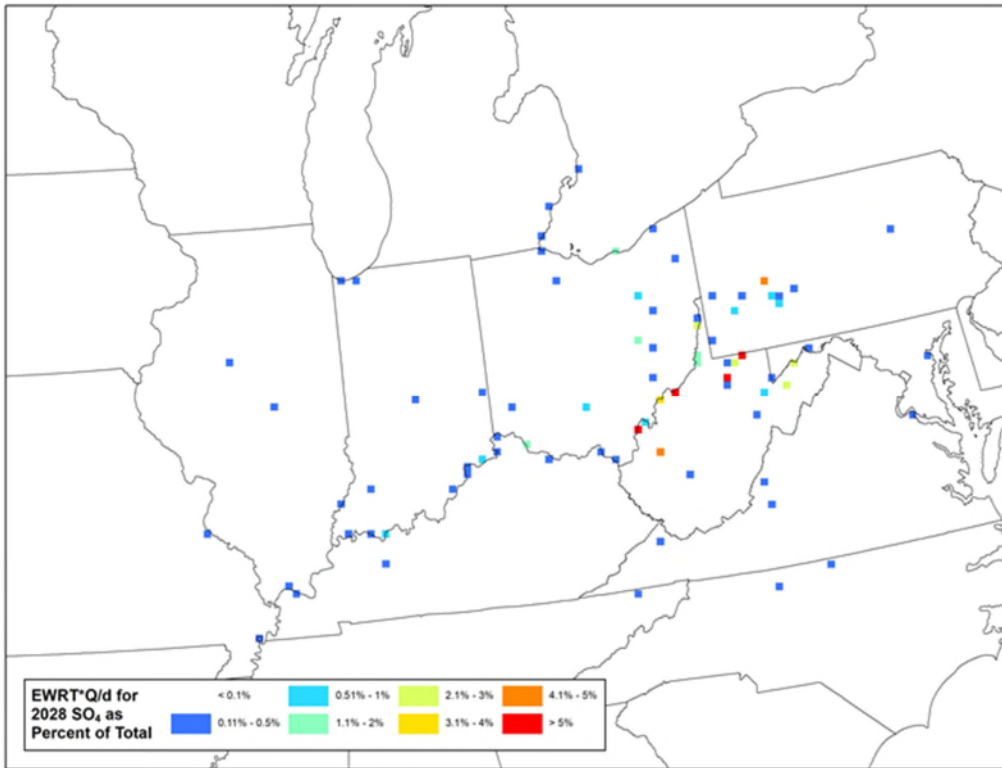
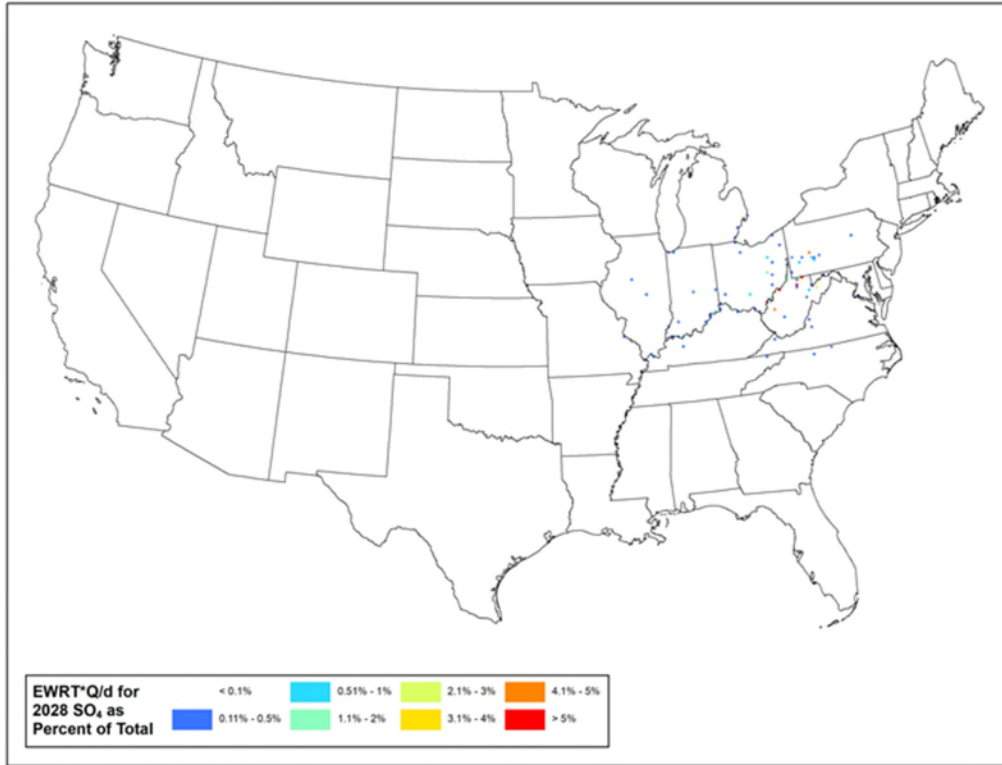
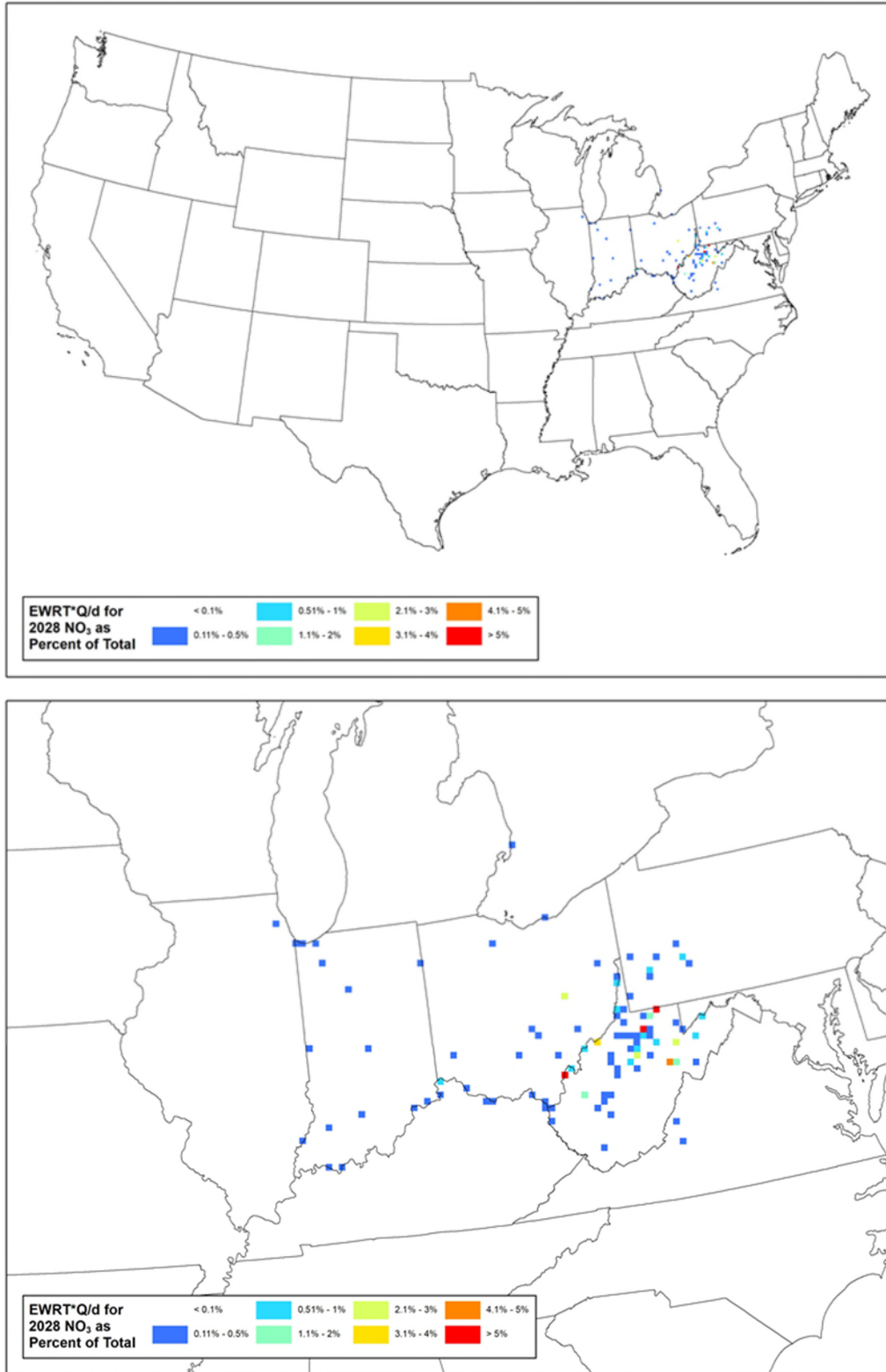


Figure 8: Sulfate Emissions/Distance Extinction Weighted Residence Time (% of Total Q/d\*EWRT per 12km Modeling Grid Cell) for Otter Creek Wilderness Area – Full View (top) and Class I Zoom (bottom)

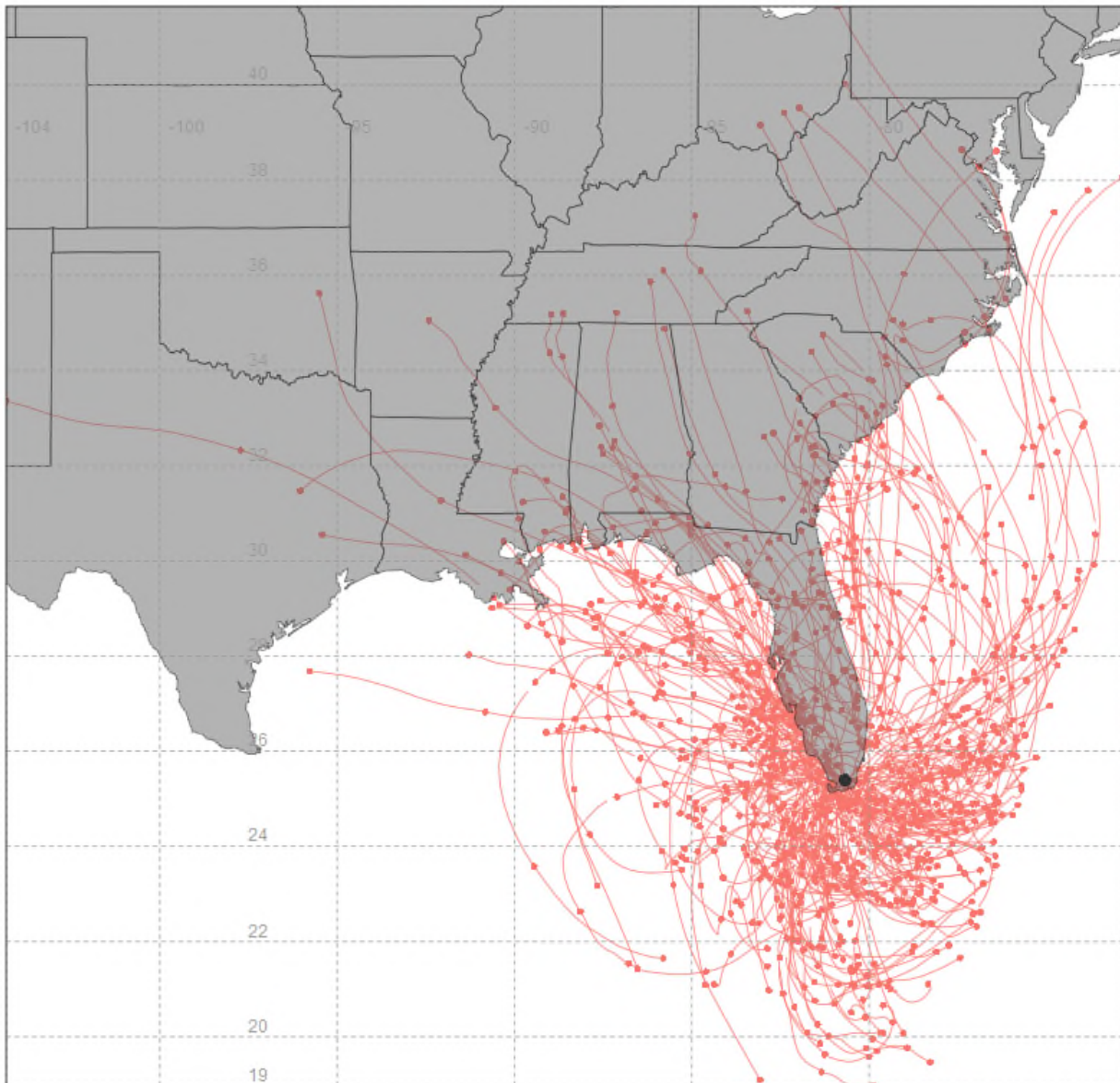




**Figure 9: Nitrate Emissions/Distance Extinction Weighted Residence Time (% of Total Q/d\*EWRT per 12km Modeling Grid Cell) for Otter Creek Wilderness Area – Full View (top) and Class I Zoom (bottom)**

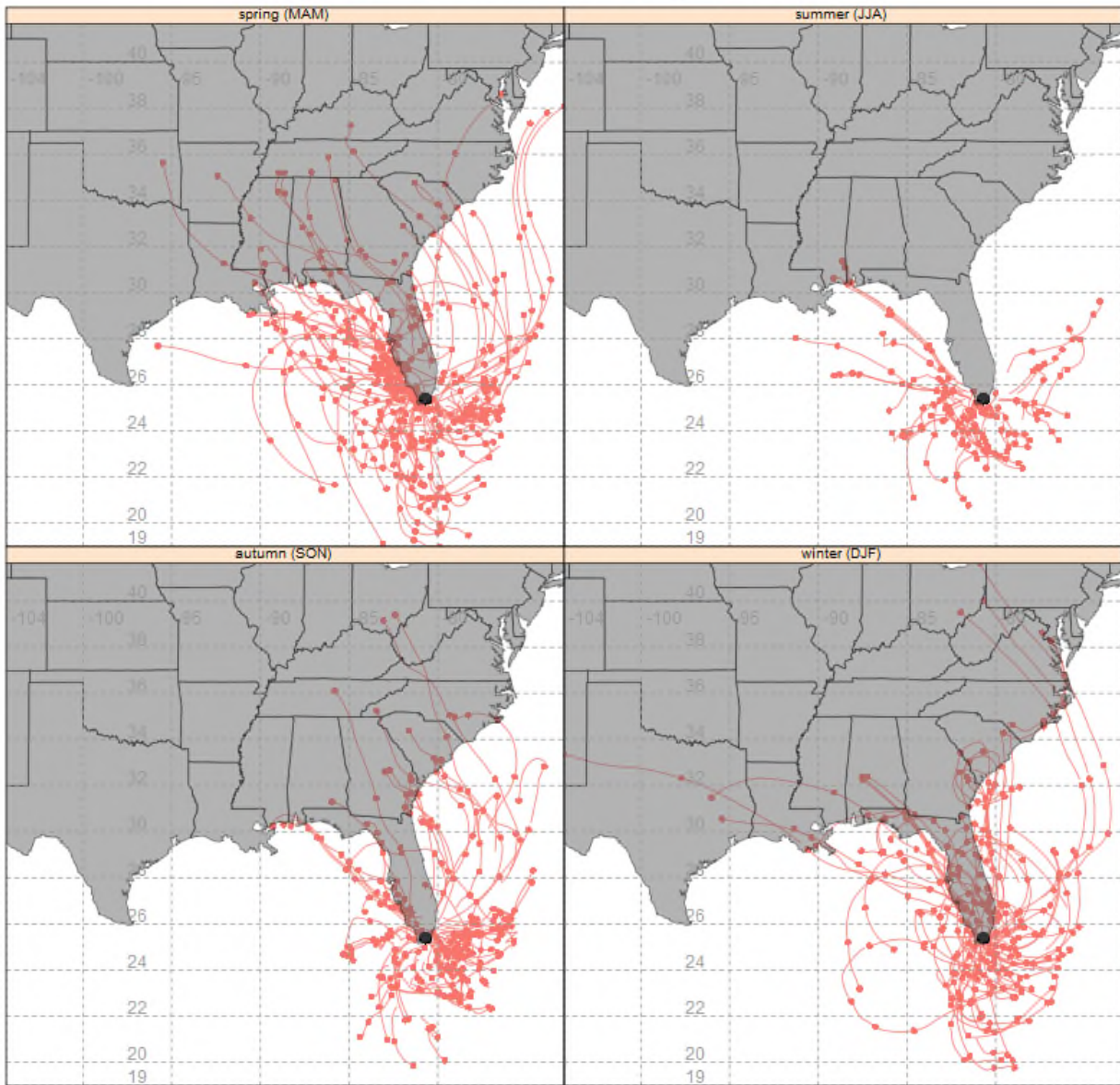
# Everglades National Park

Class1 site: 13 Year: 2011-2016 Height: 100.00

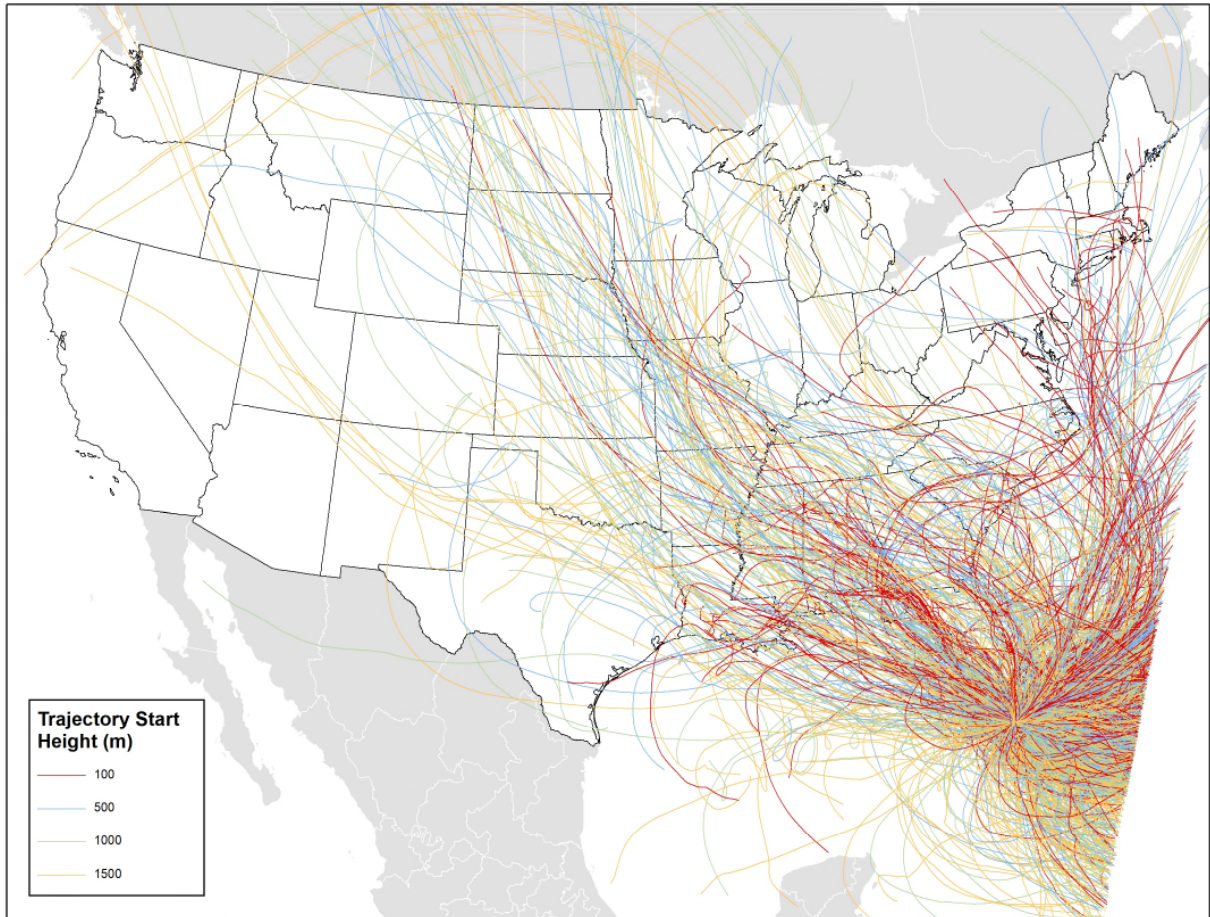


**Figure 1: 100-Meter Back Trajectories for the 20% Most Impaired Visibility Days (2011-2016), from Everglades National Park**

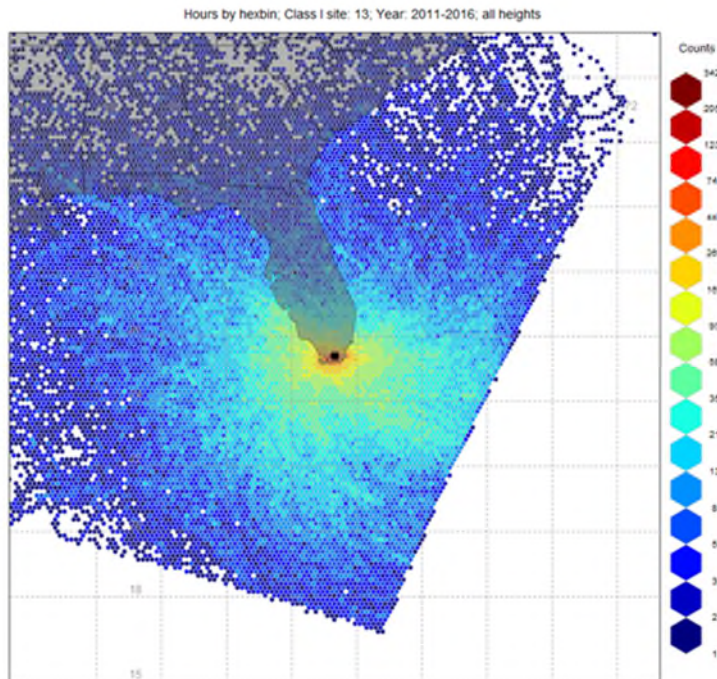
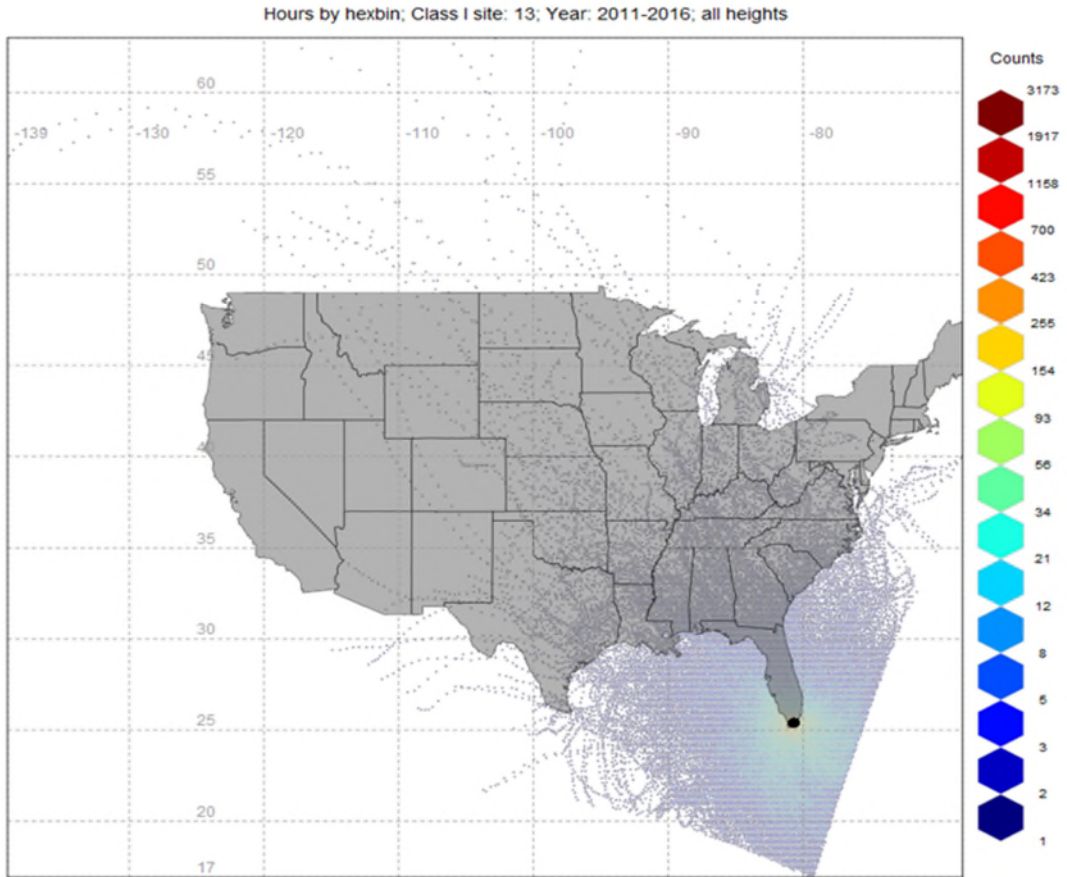
Class1 site: 13 Year: 2011-2016 Height: 100.00



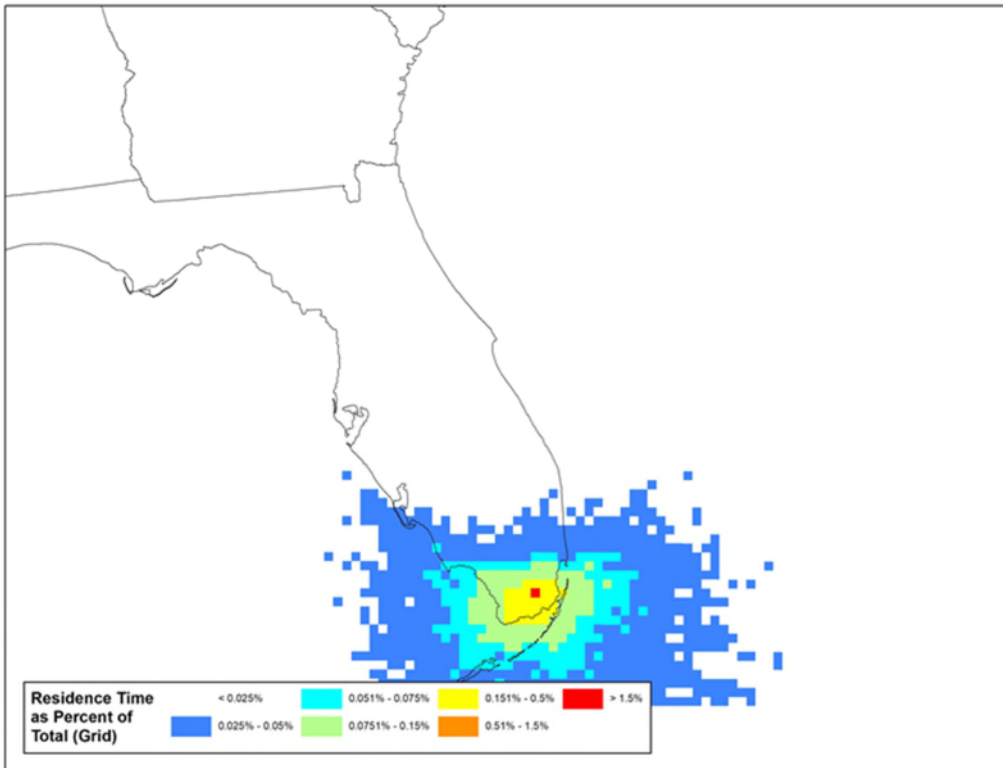
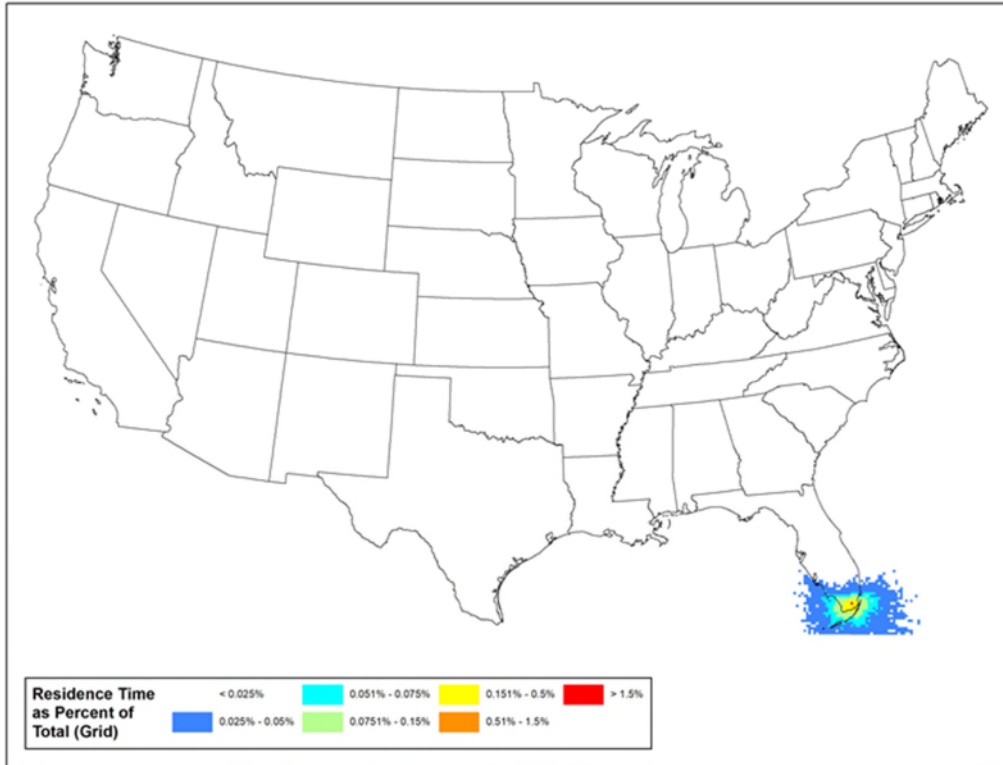
**Figure 2: 100-Meter Back Trajectories by Season for the 20% Most Impaired Visibility Days (2011-2016) from Everglades National Park**



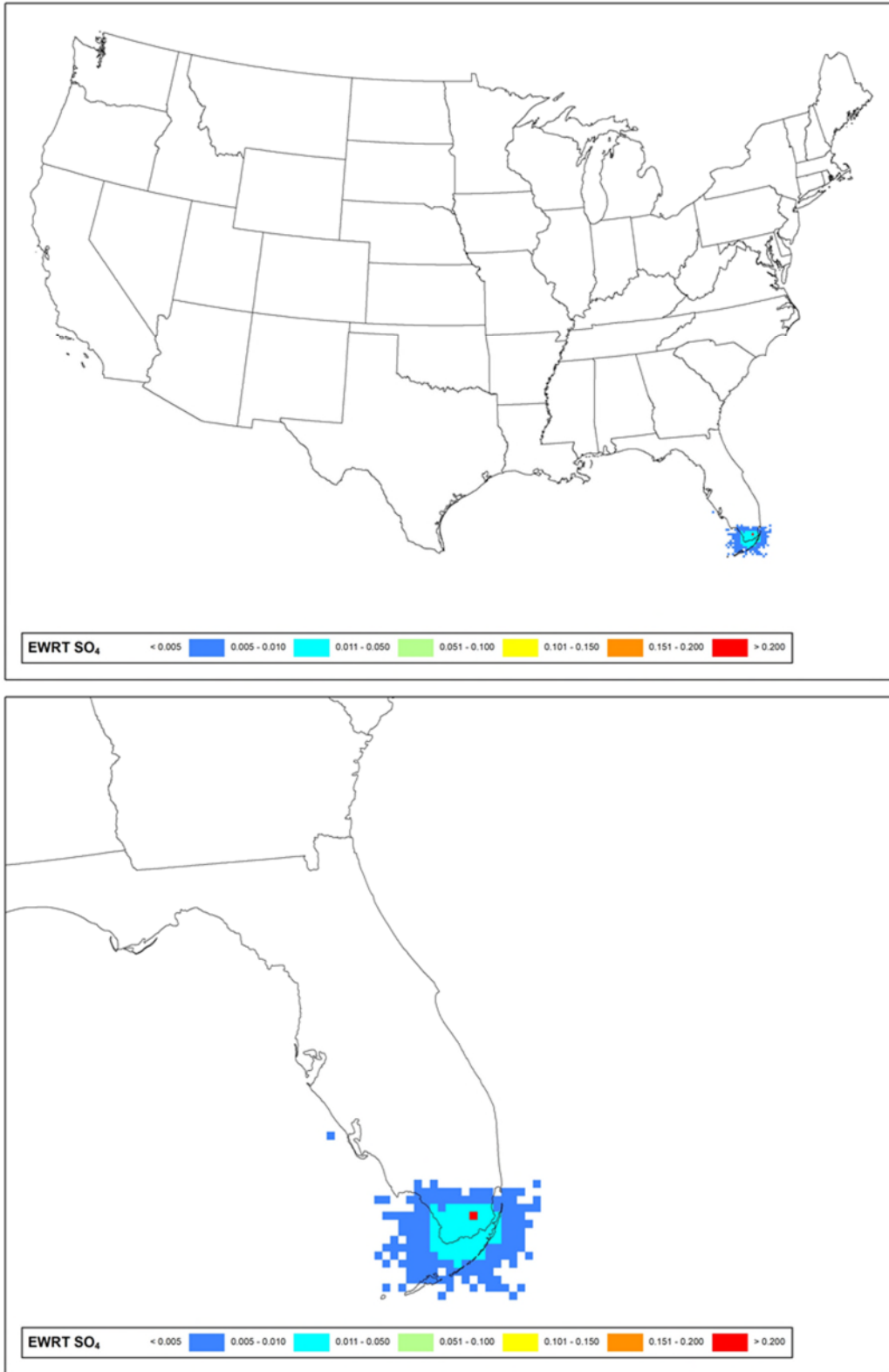
**Figure 3: 100-Meter, 500-Meter, 1000-Meter, and 1500-Meter Back Trajectories for the 20% Most Impaired Days (2011-2016) from Everglades National Park**



**Figure 4: Residence Time (Counts per 12km Modeling Grid Cell) for Everglades National Park – Full View (top) and Class I Zoom (bottom)**



**Figure 5: Residence Time (% of Total Counts per 12km Modeling Grid Cell for Everglades National Park – Full View (top) and Class I Zoom (bottom)**



**Figure 6: Sulfate Extinction Weighted Residence Time (Sulfate EWRT per 12km Modeling Grid Cell) for Everglades National Park - Full View (top) and Class I Zoom (bottom)**

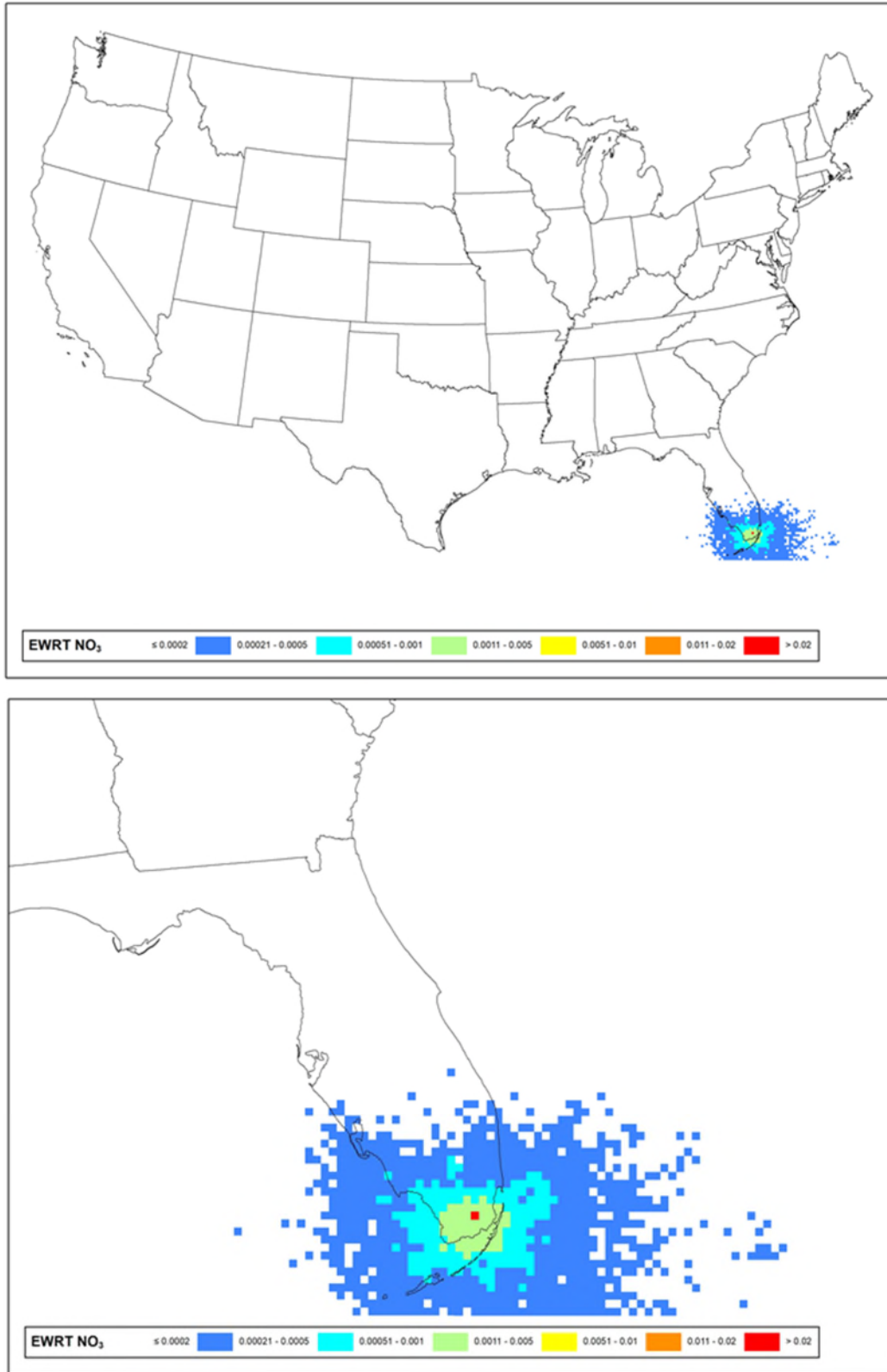


Figure 7: Nitrate Extinction Weighted Residence Time (Nitrate EWRT per 12-km Modeling Grid Cell) for Everglades National Park - Full View (top) and Class I Zoom (bottom)



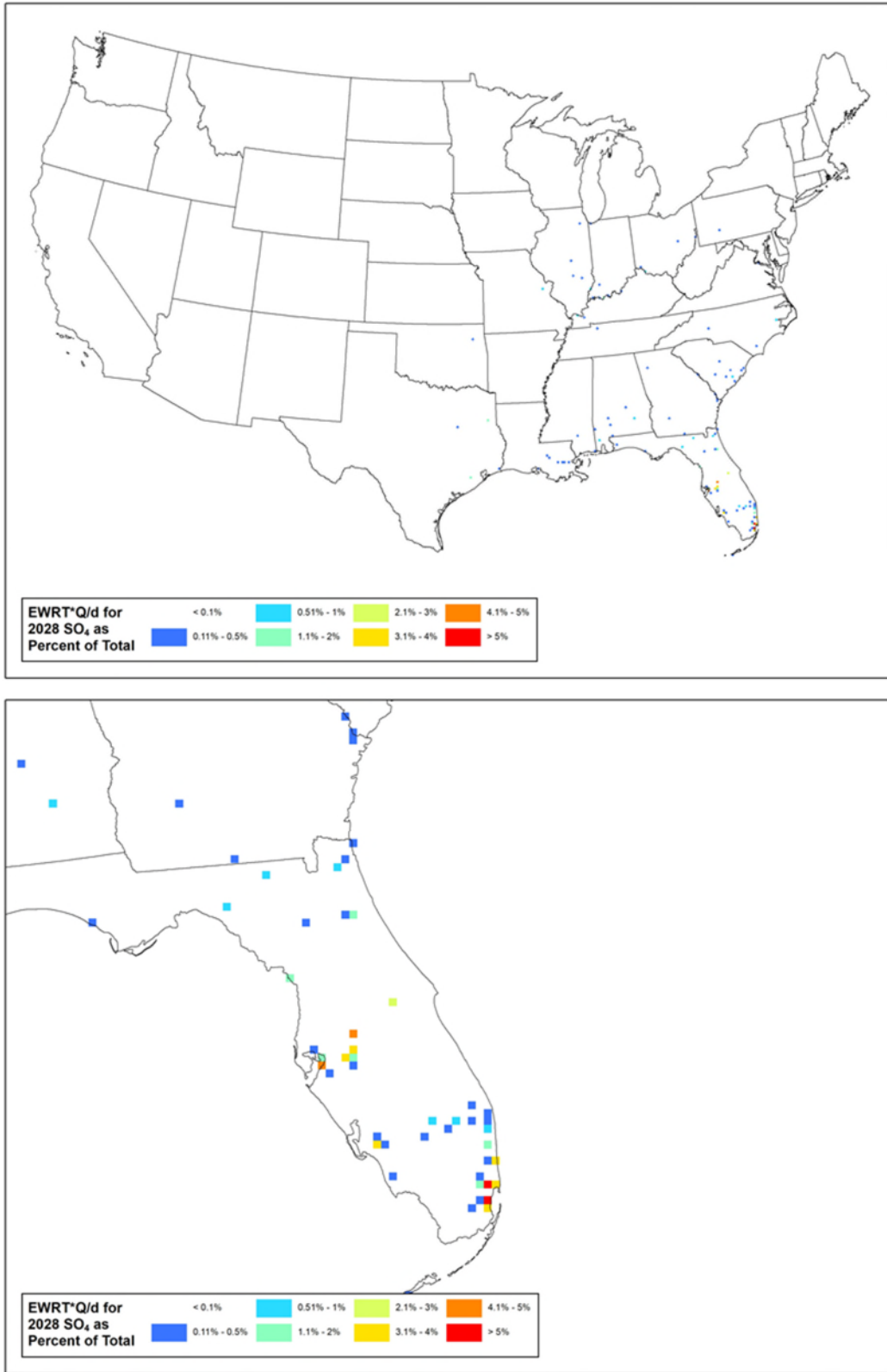
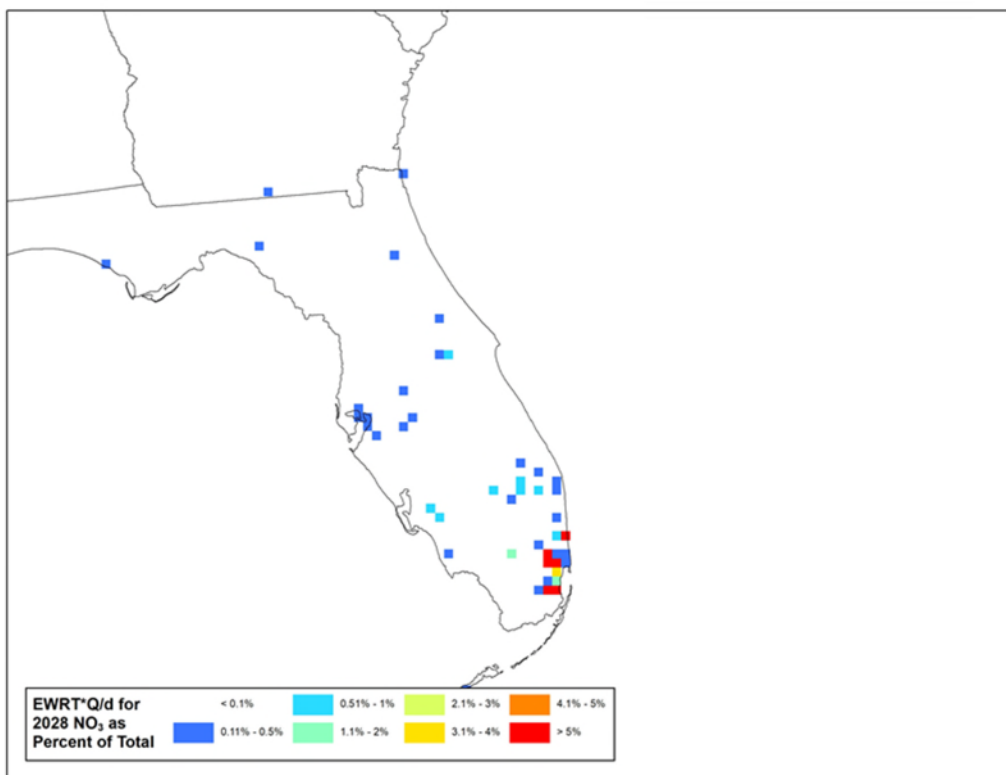
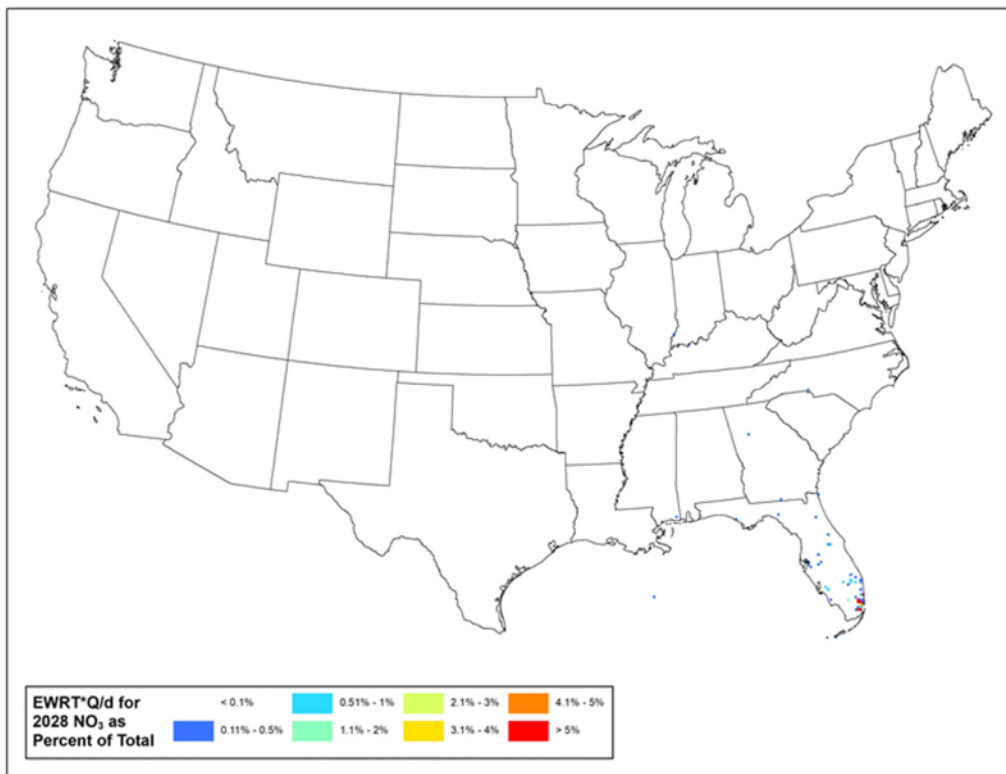
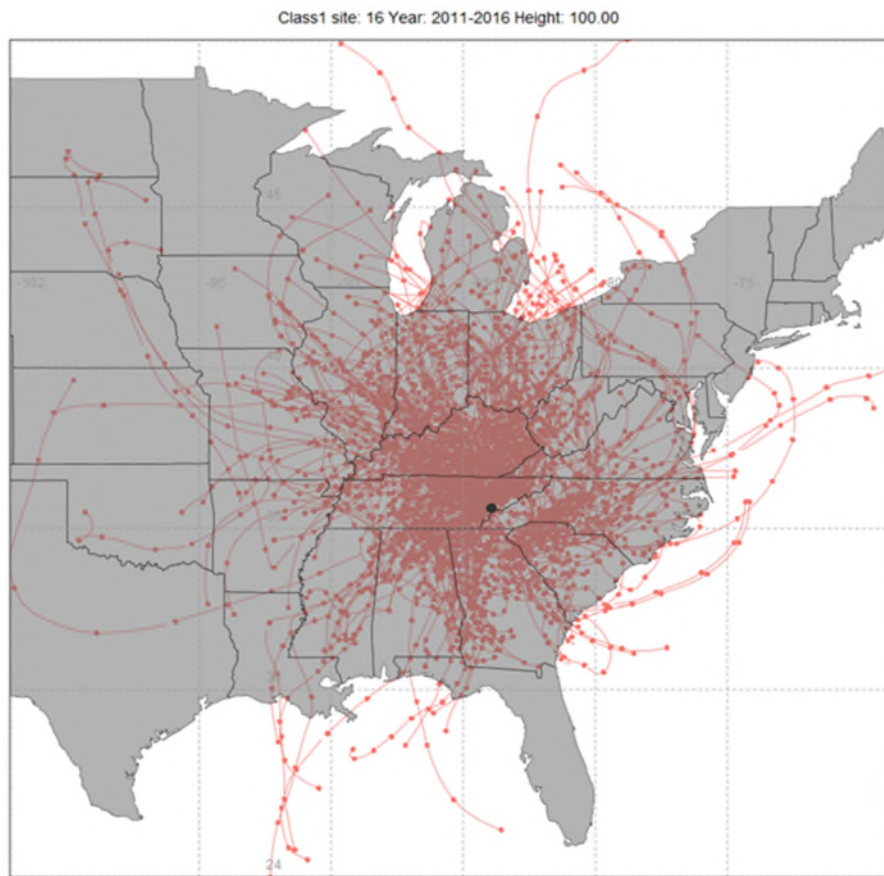


Figure 8: Sulfate Emissions/Distance Extinction Weighted Residence Time (% of Total Q/d\*EWRT per 12km Modeling Grid Cell) for Everglades National Park – Full View (top) and Class I Zoom (bottom)



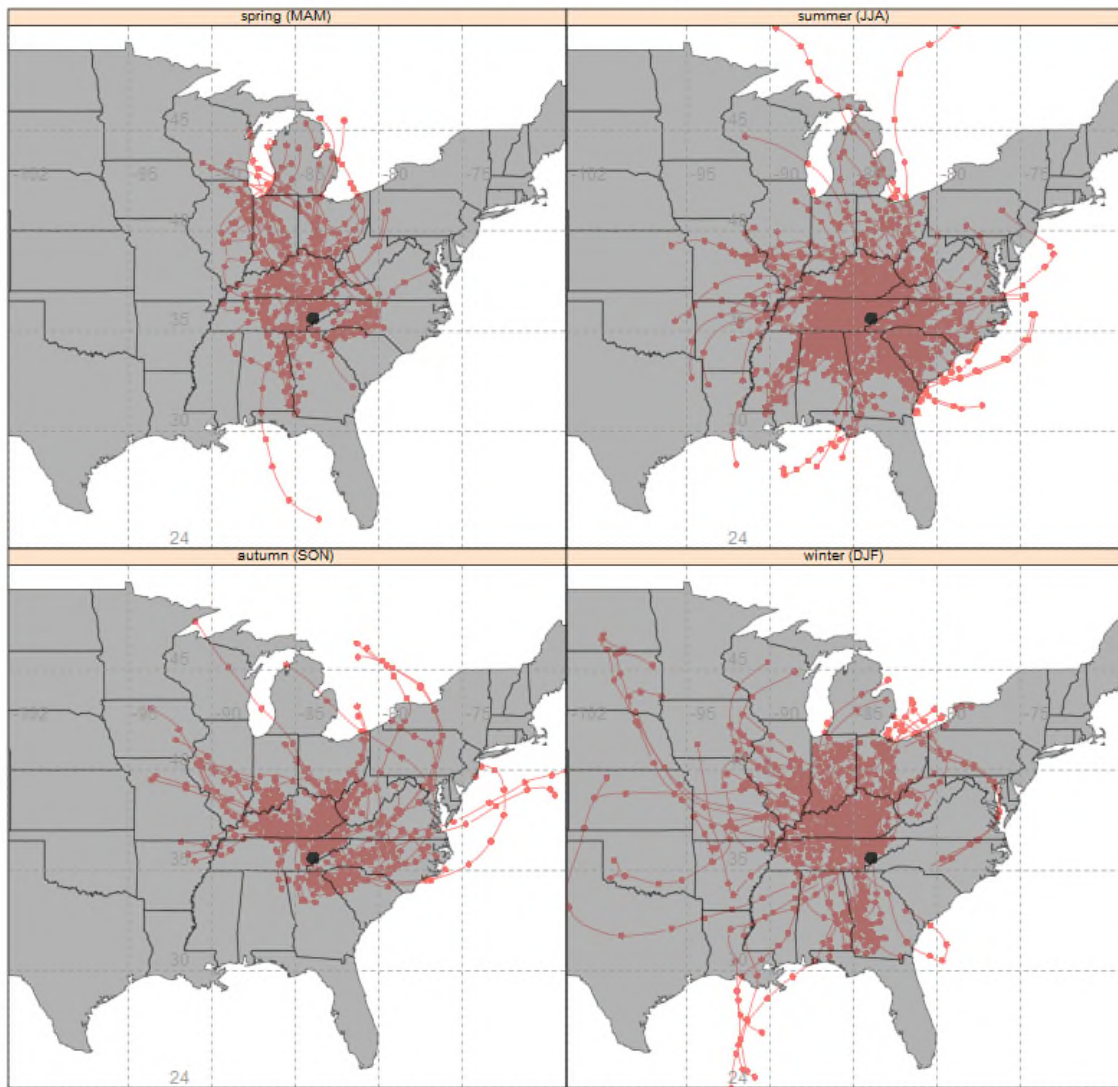
**Figure 9: Nitrate Emissions/Distance Extinction Weighted Residence Time (% of Total Q/d\*EWRT per 12km Modeling Grid Cell) for Everglades National Park – Full View (top) and Class I Zoom (bottom)**

# Great Smoky Mountains National Park

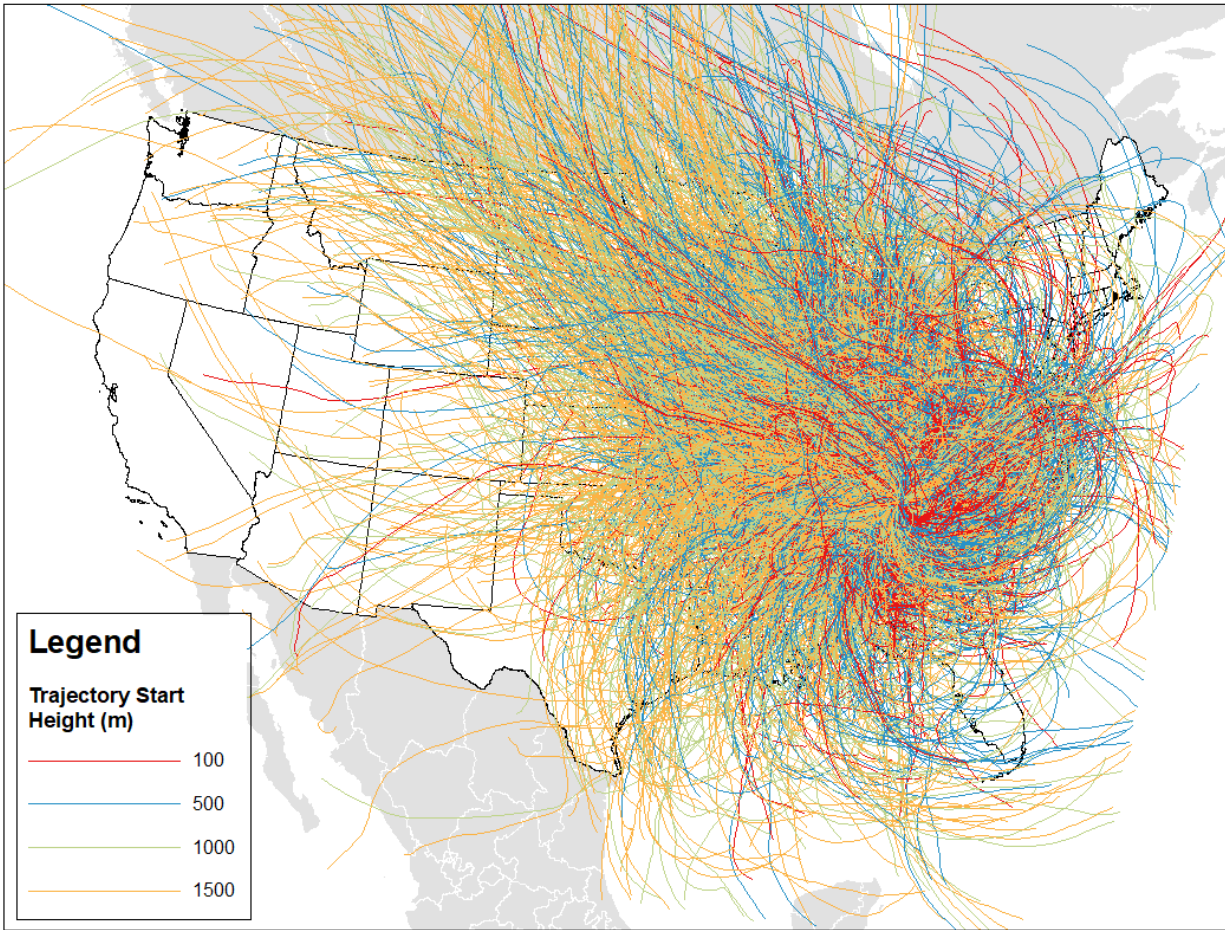


**Figure 1: 100-Meter Back Trajectories for the 20% Most Impaired Visibility Days (2011-2016), from Great Smoky Mountains National Park**

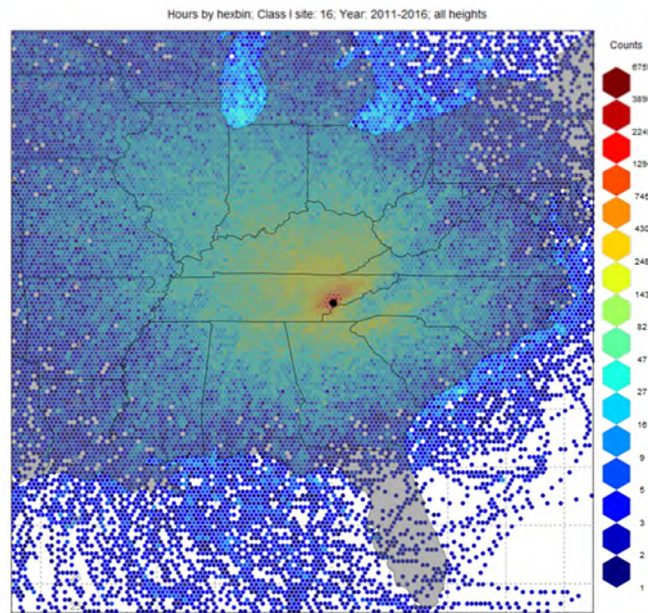
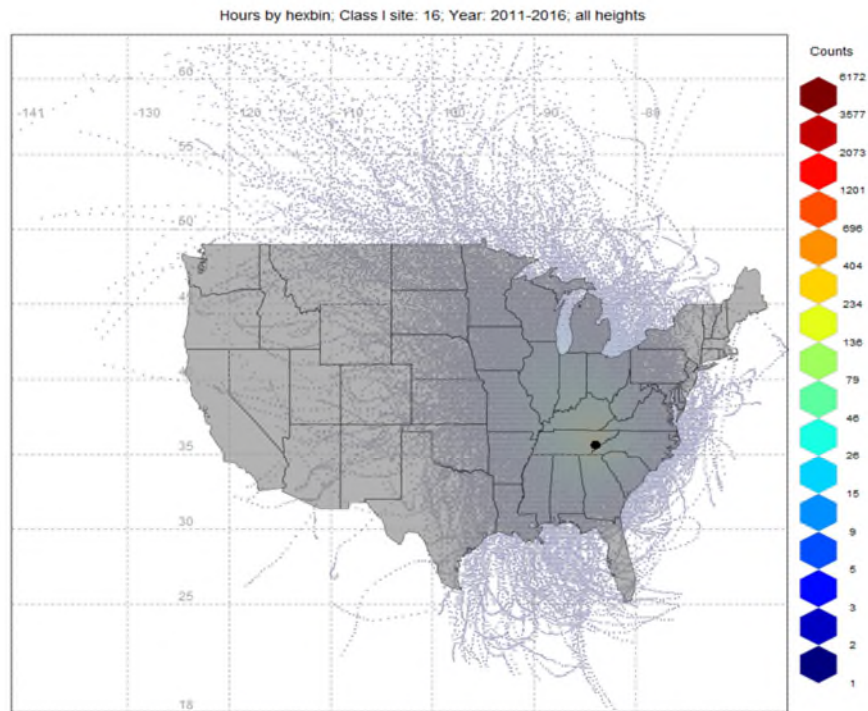
Class1 site: 16 Year: 2011-2016 Height: 100.00



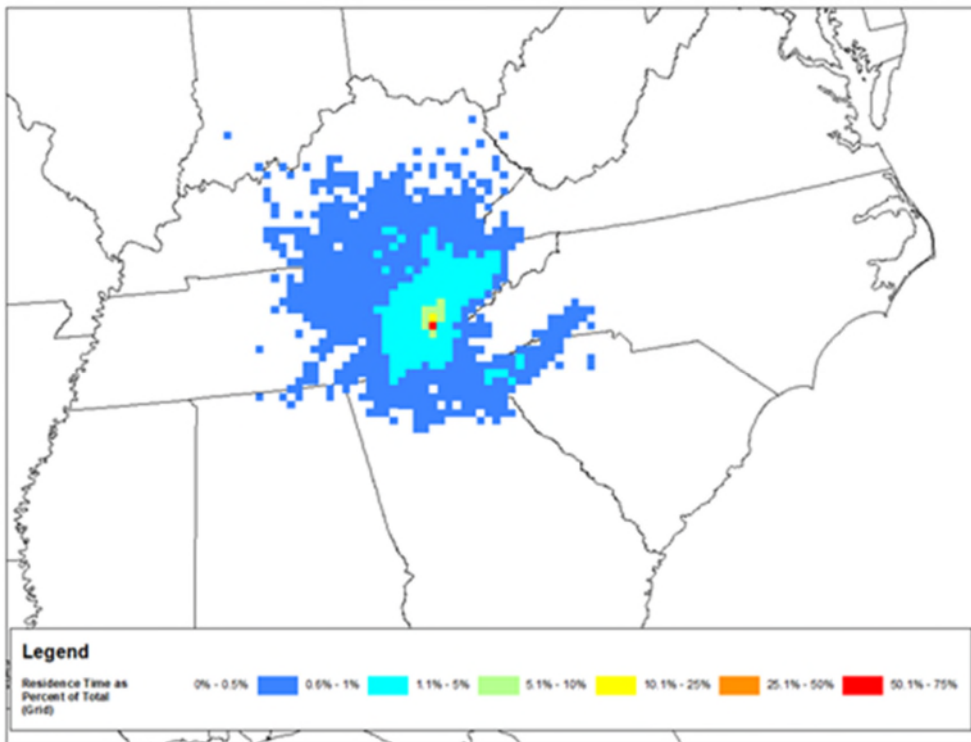
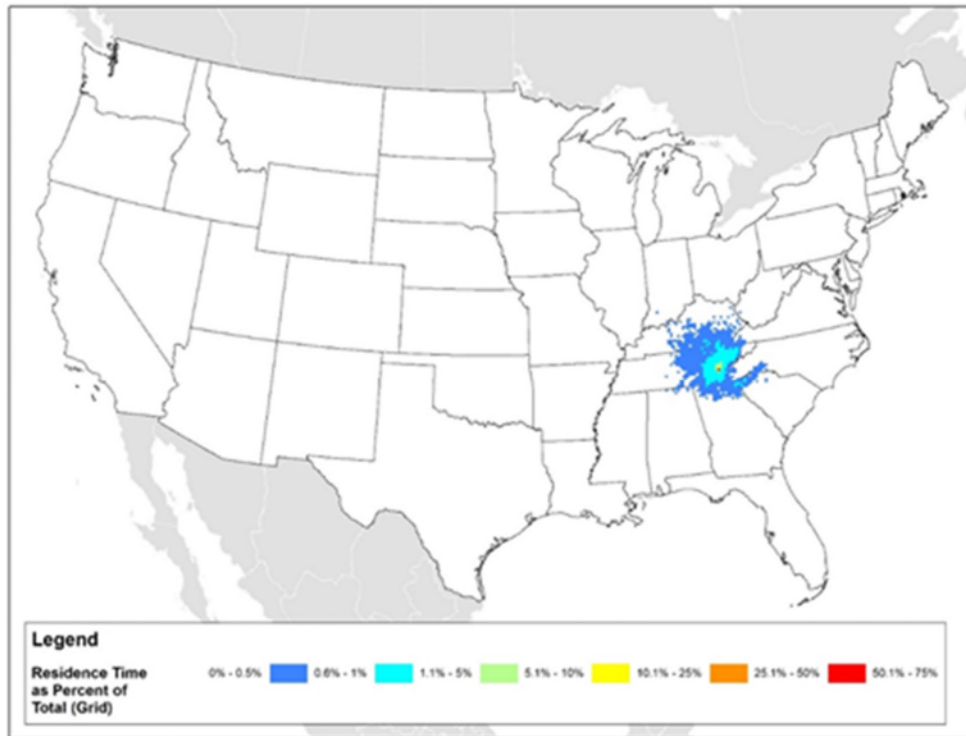
**Figure 2: 100-Meter Back Trajectories by Season for the 20% Most Impaired Visibility Days (2011-2016) from Great Smoky Mountains National Park**



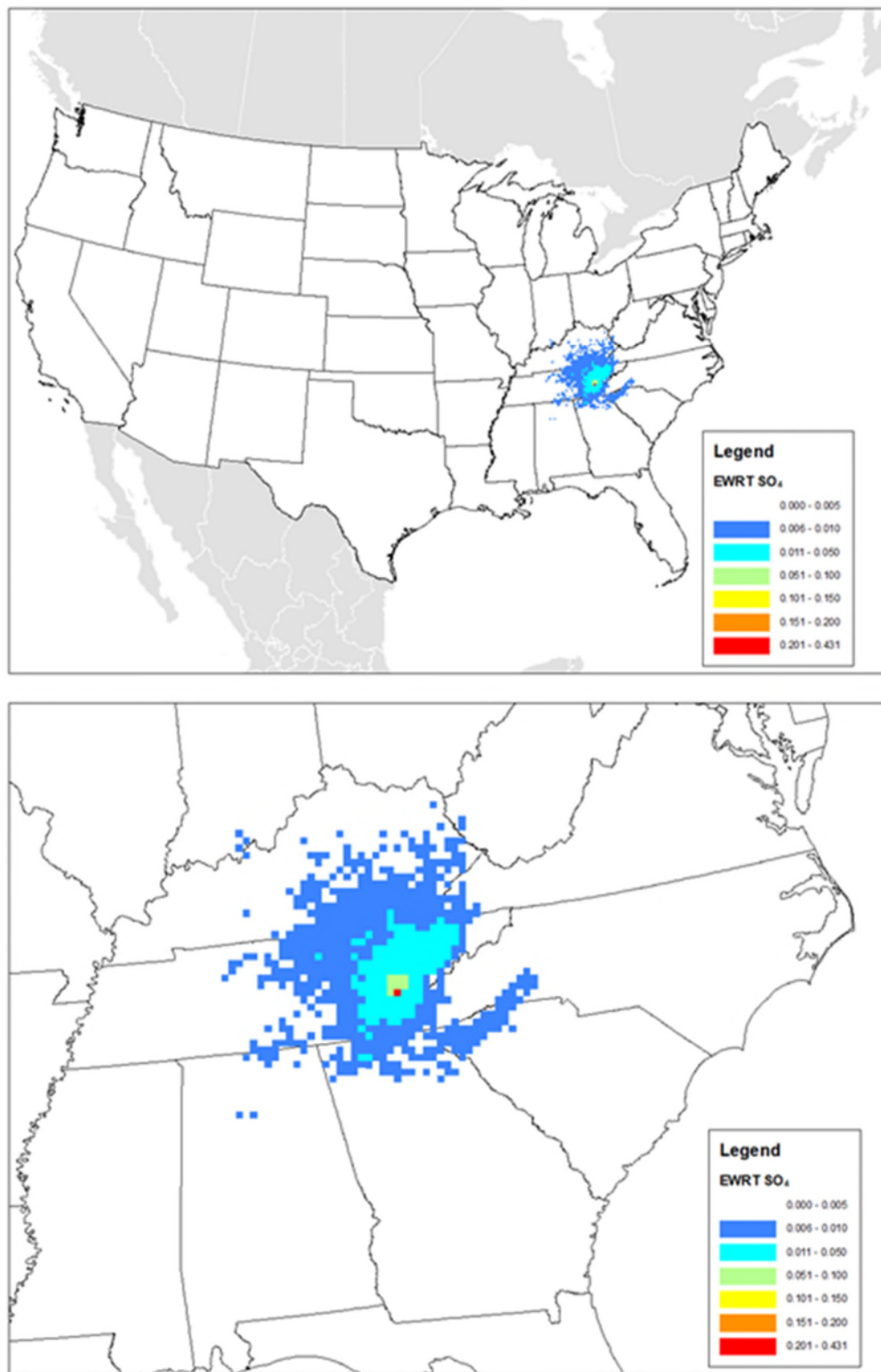
**Figure 3: 100-Meter, 500-Meter, 1000-Meter, and 1500-Meter Back Trajectories for the 20% Most Impaired Days (2011-2016) from Great Smoky Mountains National Park**



**Figure 4: Residence Time (Counts per 12km Modeling Grid Cell) for Great Smoky Mountains National Park – Full View (top) and Class I Zoom (bottom)**

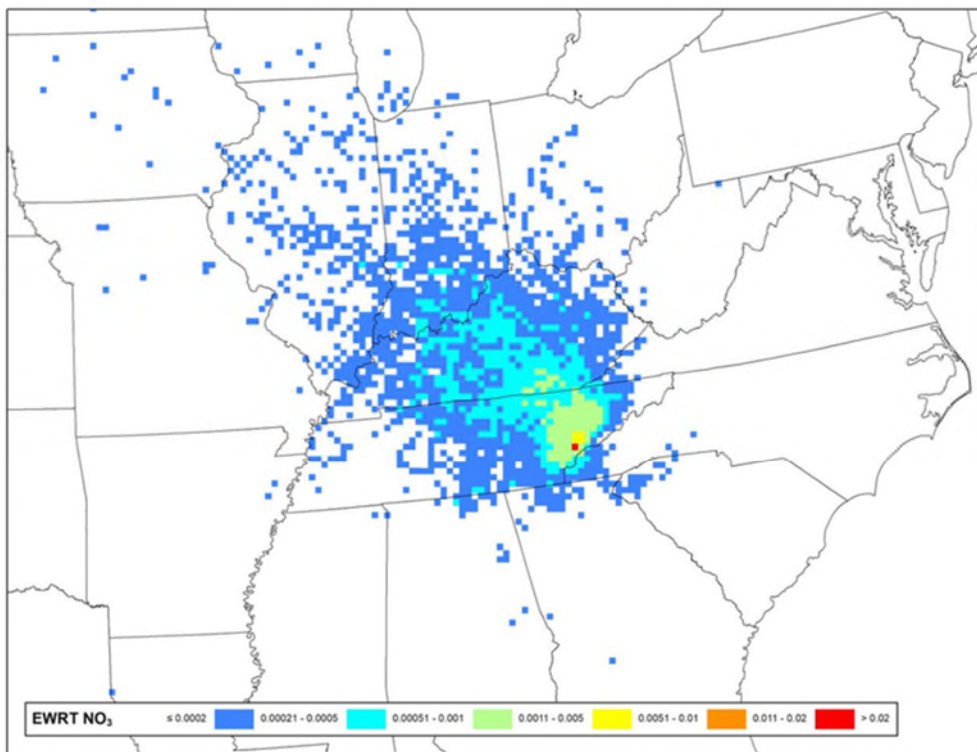
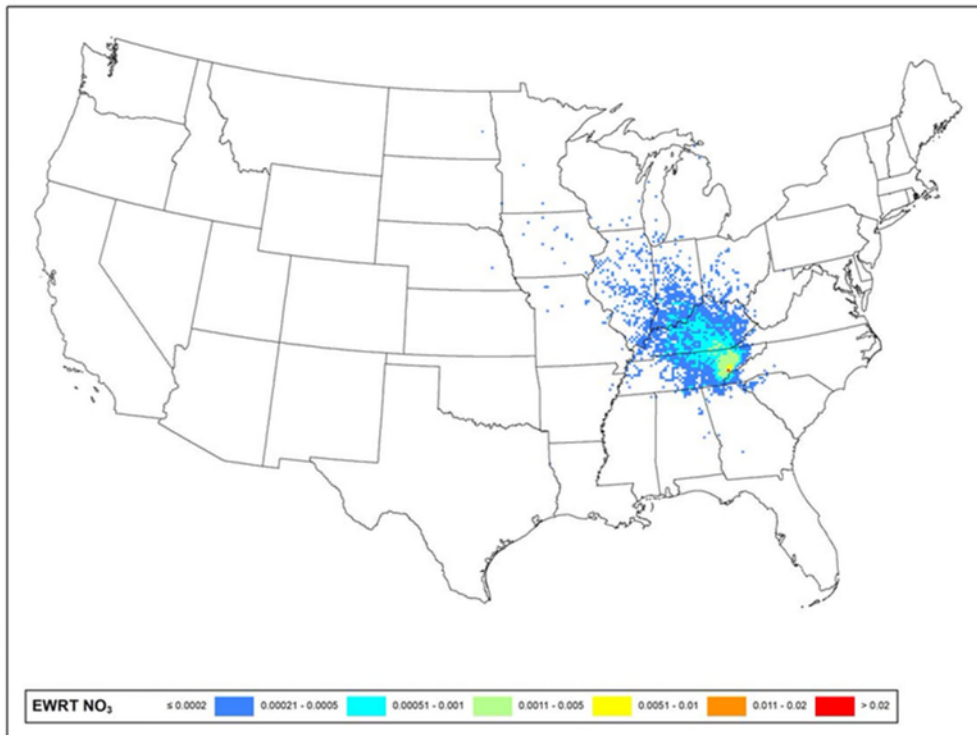


**Figure 5: Residence Time (% of Total Counts per 12km Modeling Grid Cell for Great Smoky Mountains National Park – Full View (top) and Class I Zoom (bottom))**

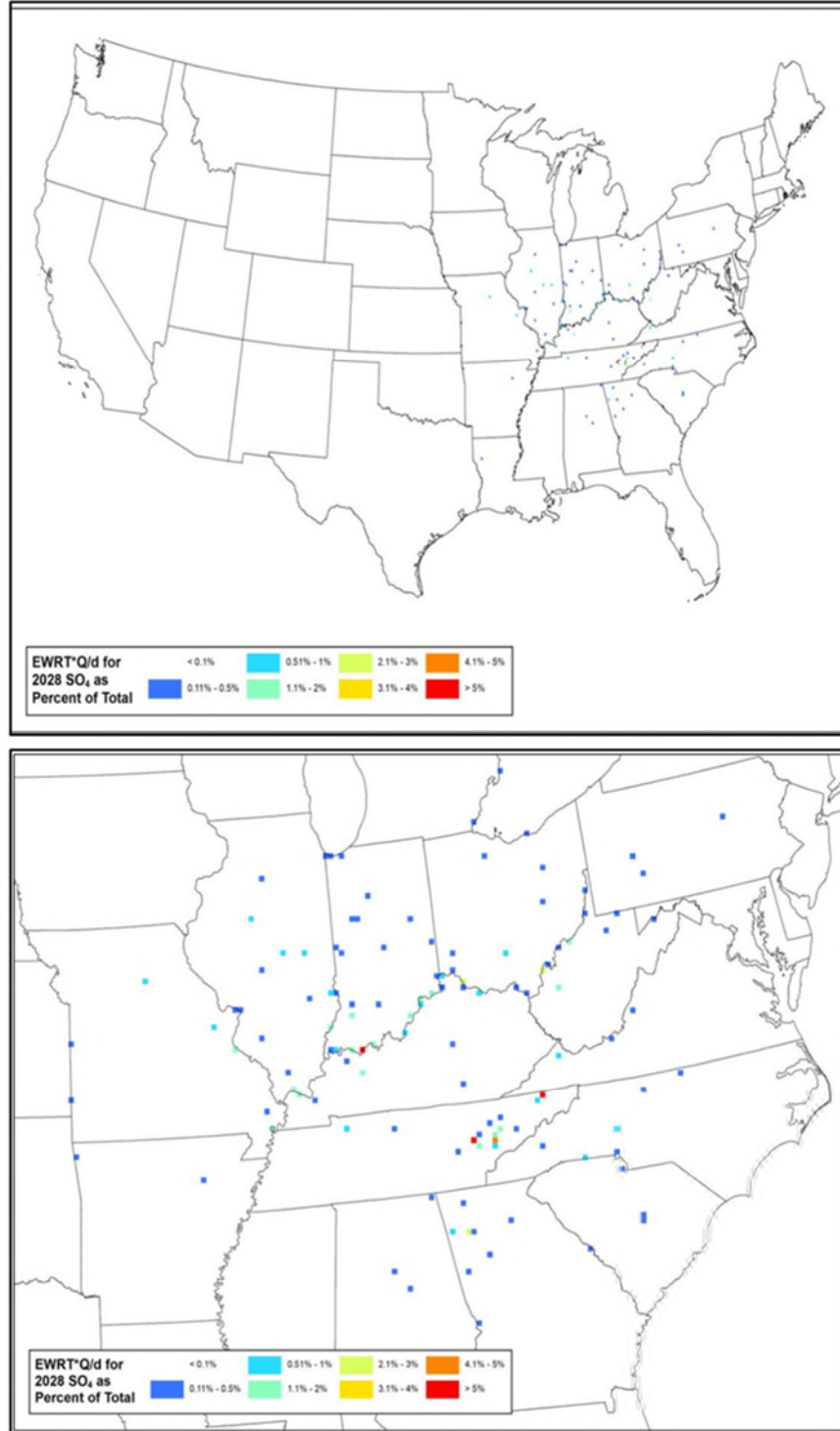


**Figure 6: Sulfate Extinction Weighted Residence Time (Sulfate EWRT per 12km Modeling Grid Cell) for Great Smoky Mountains National Park - Full View (top) and Class I Zoom (bottom)**

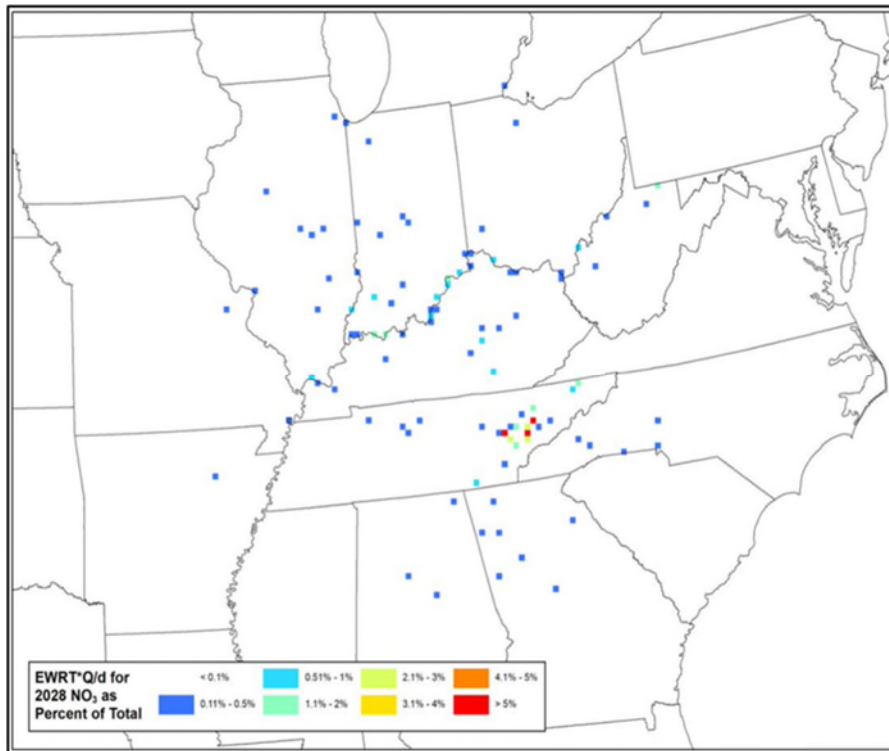
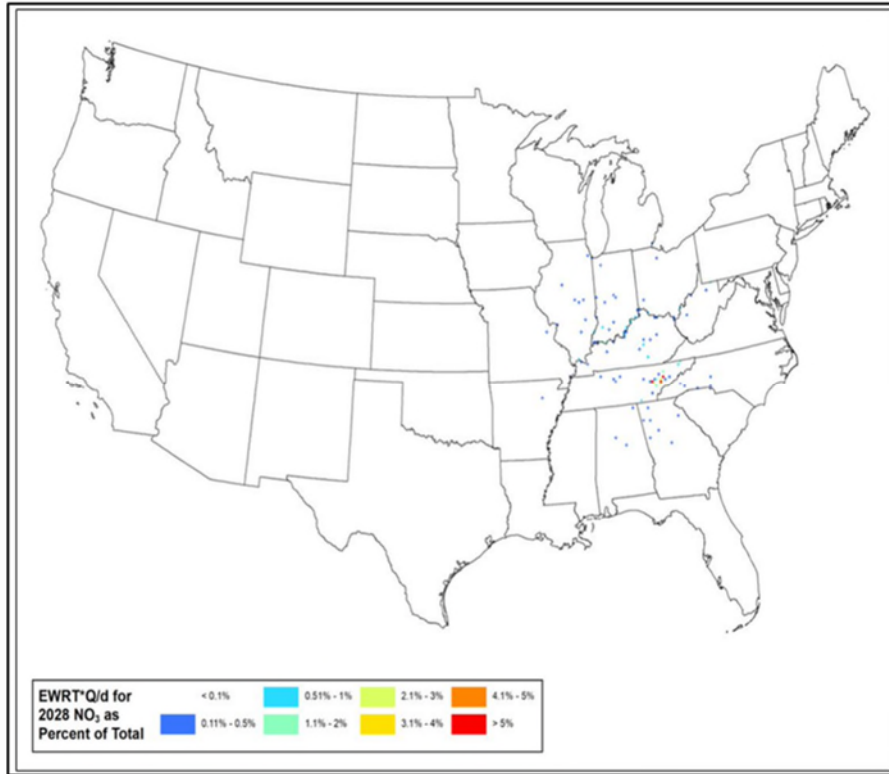




**Figure 7: Nitrate Extinction Weighted Residence Time (Nitrate EWRT per 12-km Modeling Grid Cell) for Great Smoky Mountains National Park - Full View (top) and Class I Zoom (bottom)**



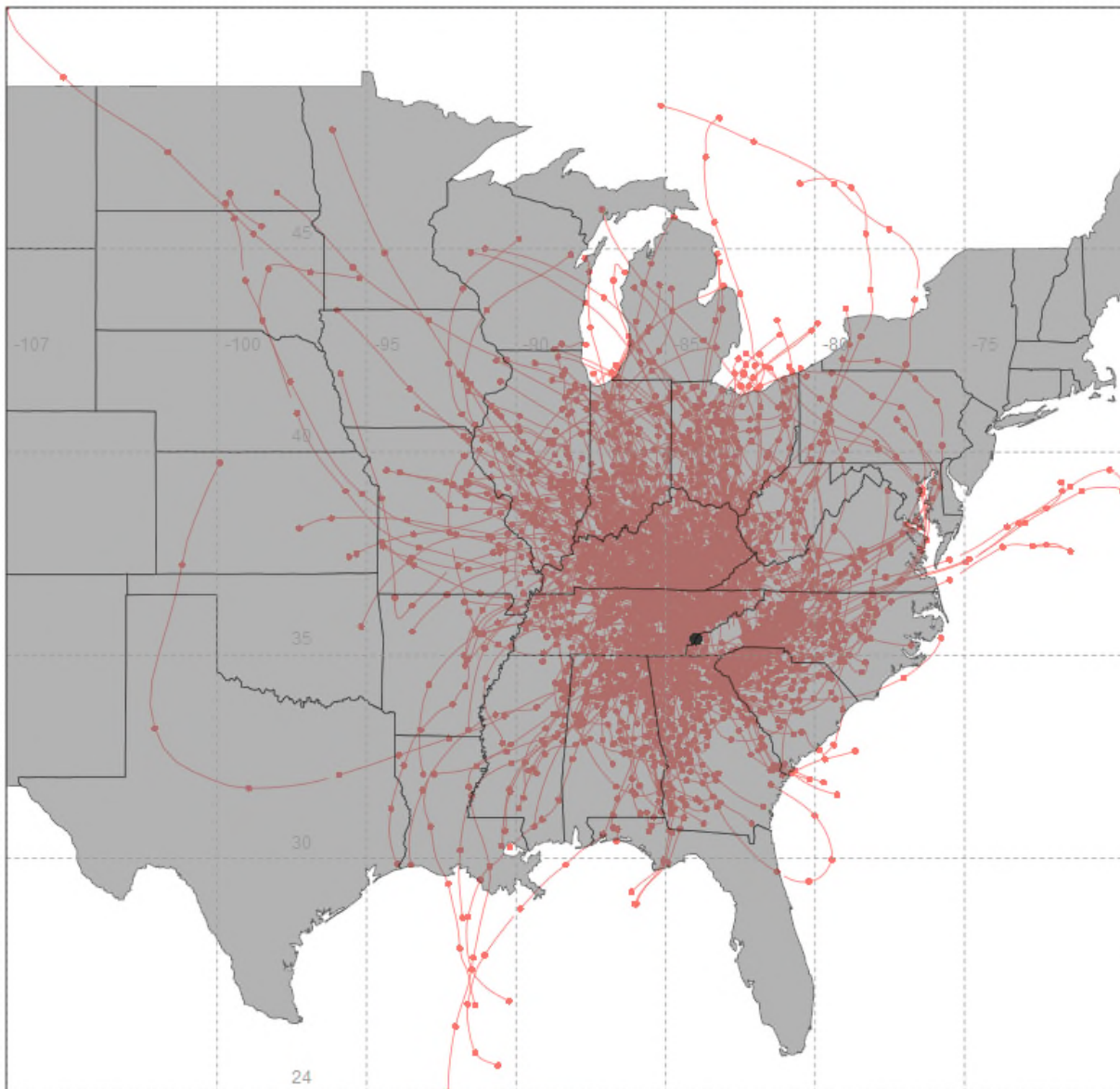
**Figure 8: Sulfate Emissions/Distance Extinction Weighted Residence Time (% of Total Q/d\*EWRT per 12km Modeling Grid Cell) for Great Smoky Mountains National Park – Full View (top) and Class I Zoom (bottom)**



**Figure 9: Nitrate Emissions/Distance Extinction Weighted Residence Time (% of Total Q/d\*EWRT per 12km Modeling Grid Cell) for Great Smoky Mountains National Park – Full View (top) and Class I Zoom (bottom)**

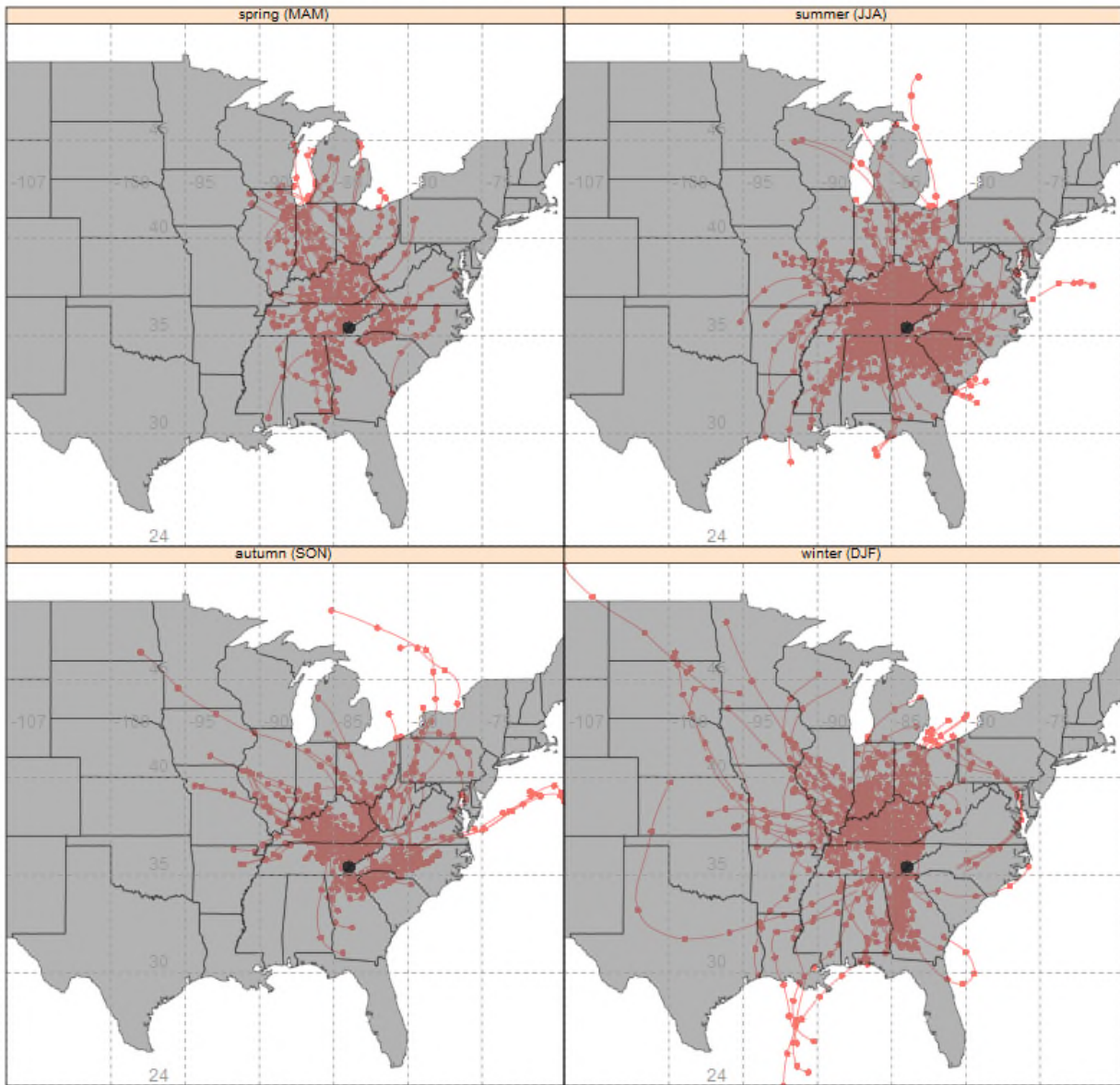
## Joyce Kilmer/Slickrock Wilderness Area

Class1 site: 17 Year: 2011-2016 Height: 100.00

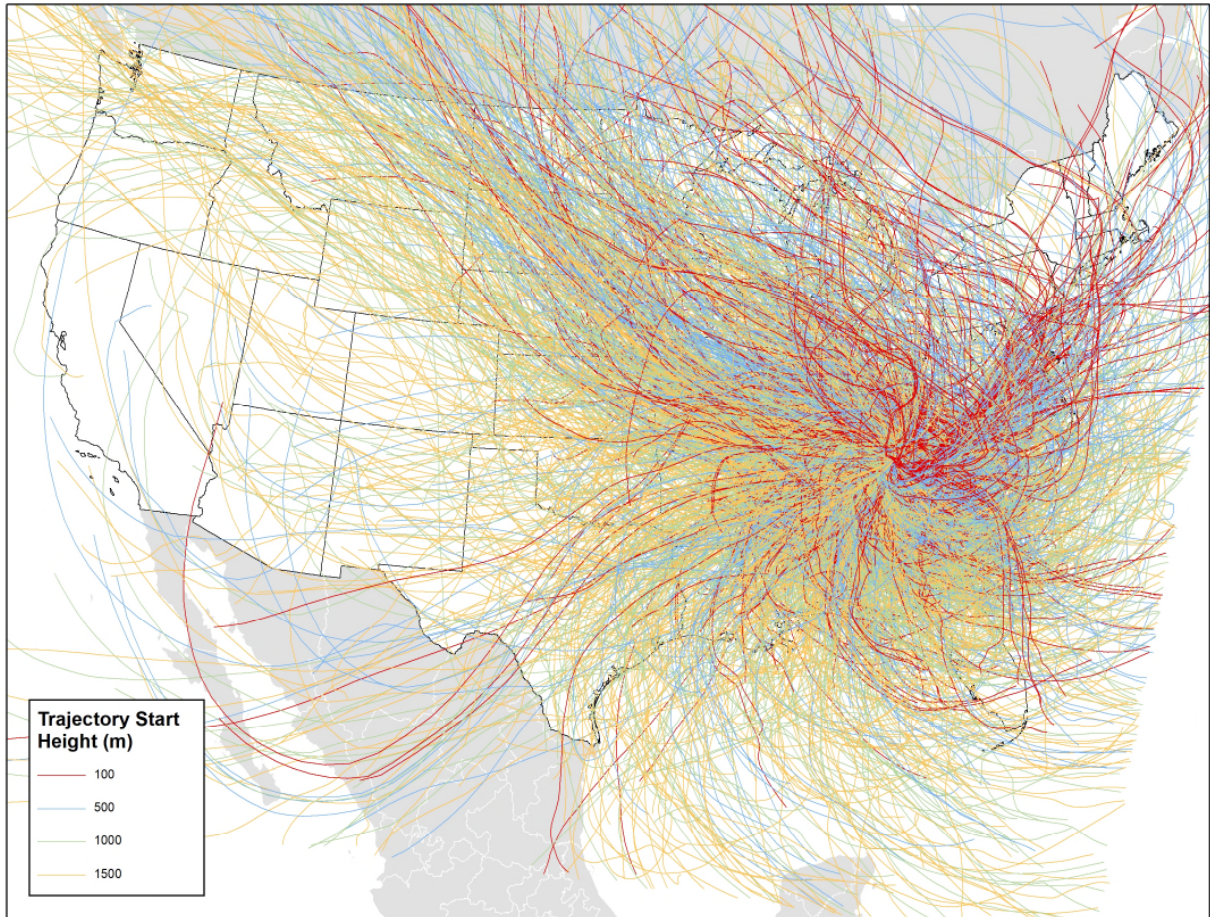


**Figure 1: 100-Meter Back Trajectories for the 20% Most Impaired Visibility Days (2011-2016), from Joyce Kilmer/Slickrock Wilderness Area**

Class1 site: 17 Year: 2011-2016 Height: 100.00



**Figure 2: 100-Meter Back Trajectories by Season for the 20% Most Impaired Visibility Days (2011-2016) from Joyce Kilmer/Slickrock Wilderness Area**



**Figure 3: 100-Meter, 500-Meter, 1000-Meter, and 1500-Meter Back Trajectories for the 20% Most Impaired Days (2011-2016) from Joyce Kilmer/Slickrock Wilderness Area**

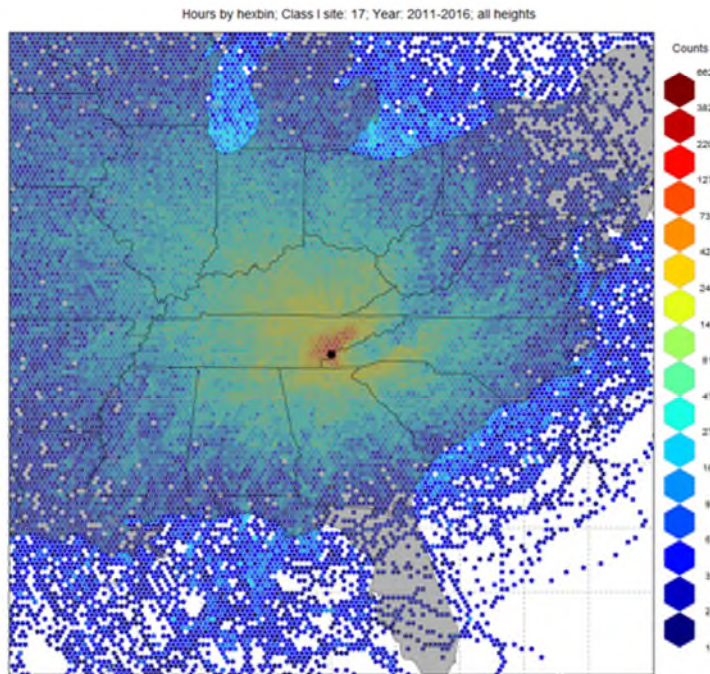
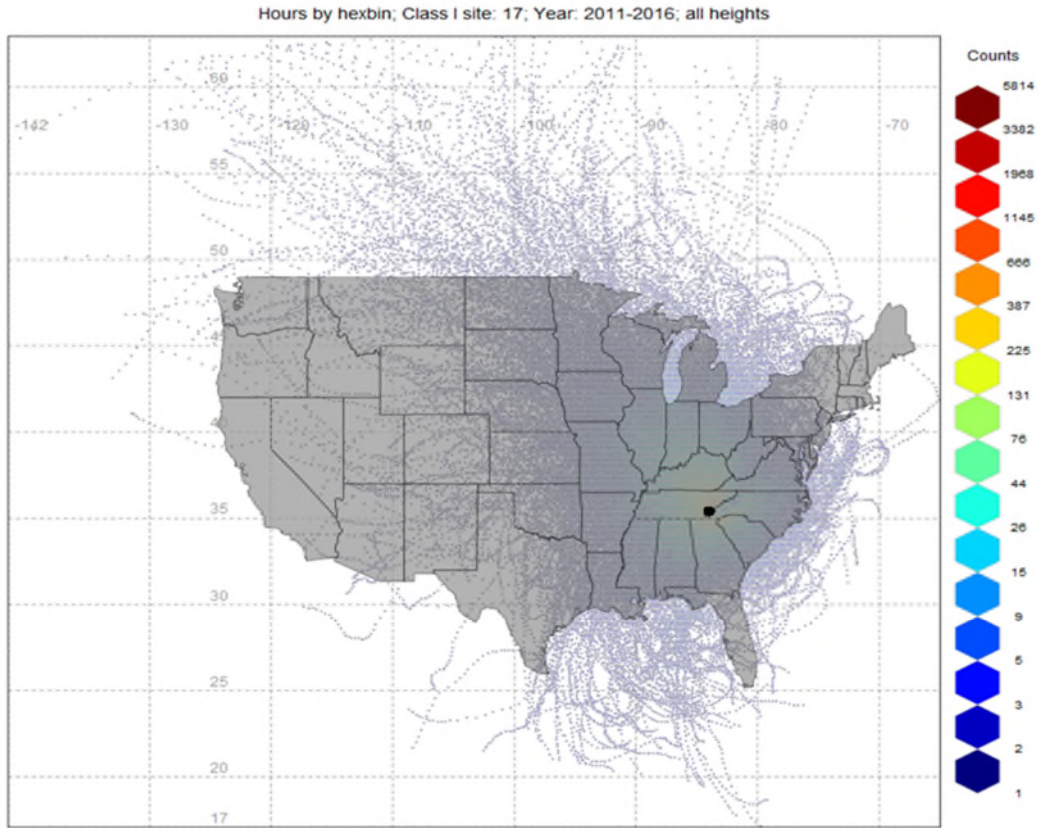
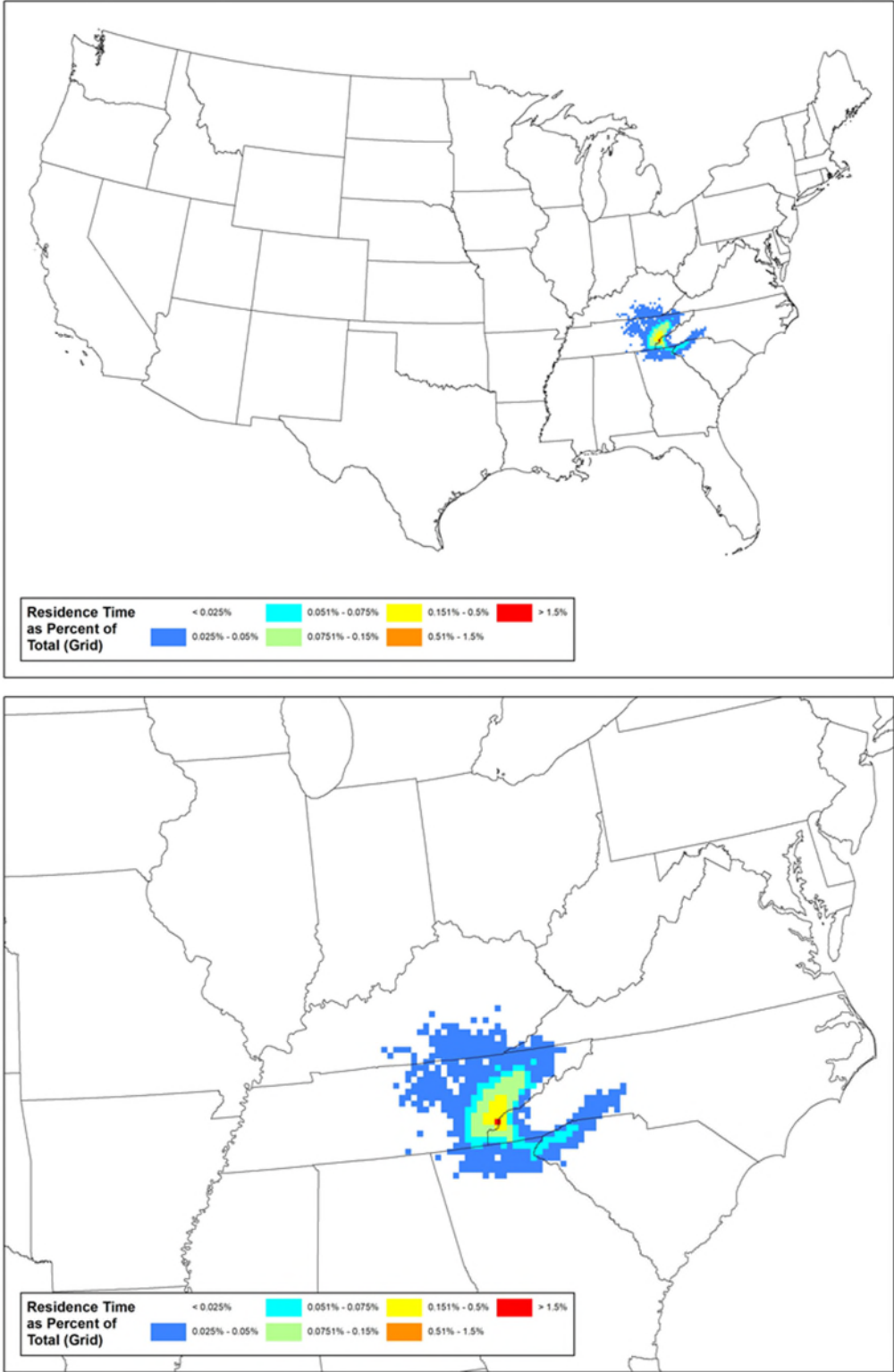
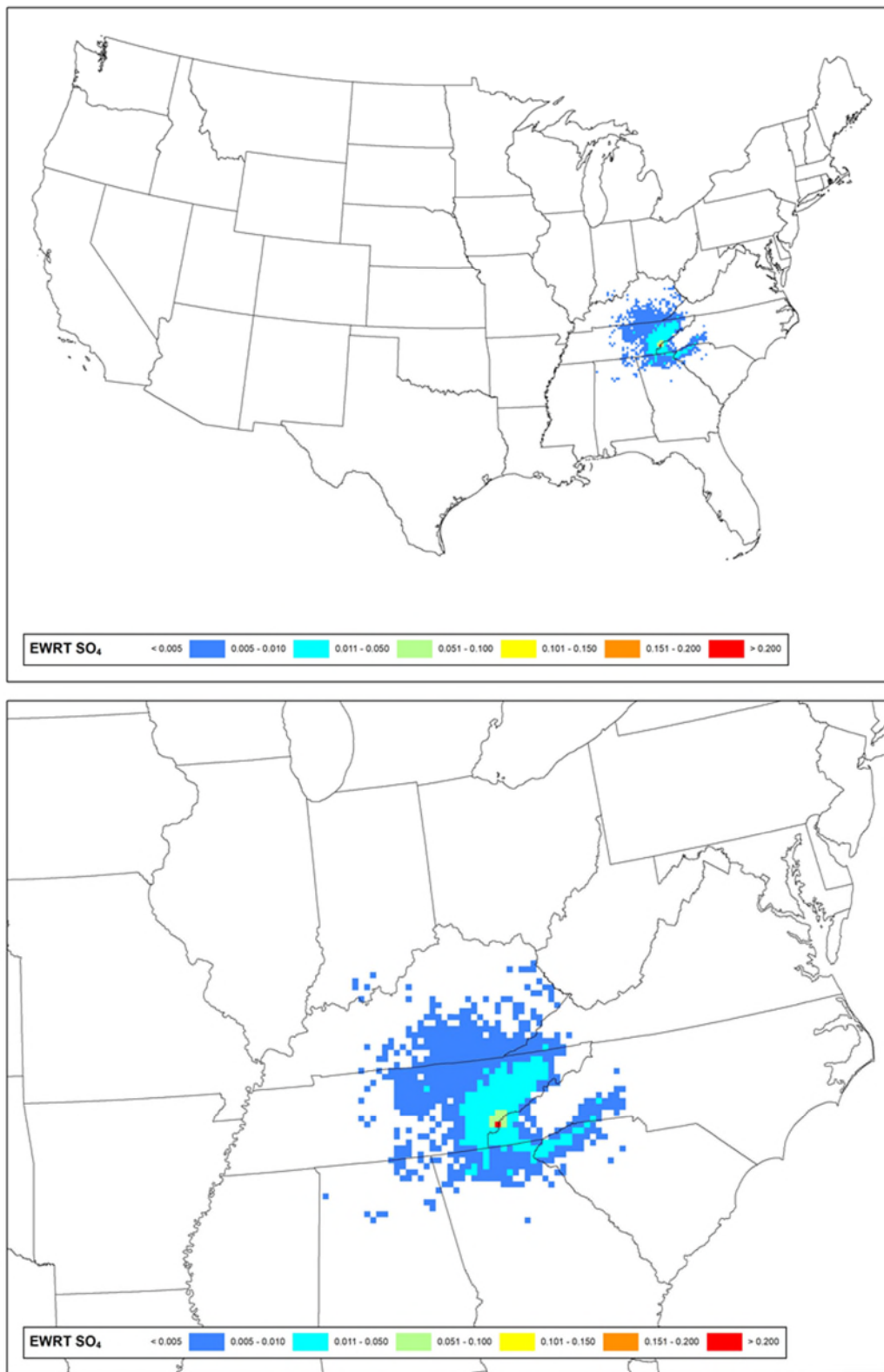


Figure 4: Residence Time (Counts per 12km Modeling Grid Cell) for Joyce Kilmer/Slickrock Wilderness Area – Full View (top) and Class I Zoom (bottom)

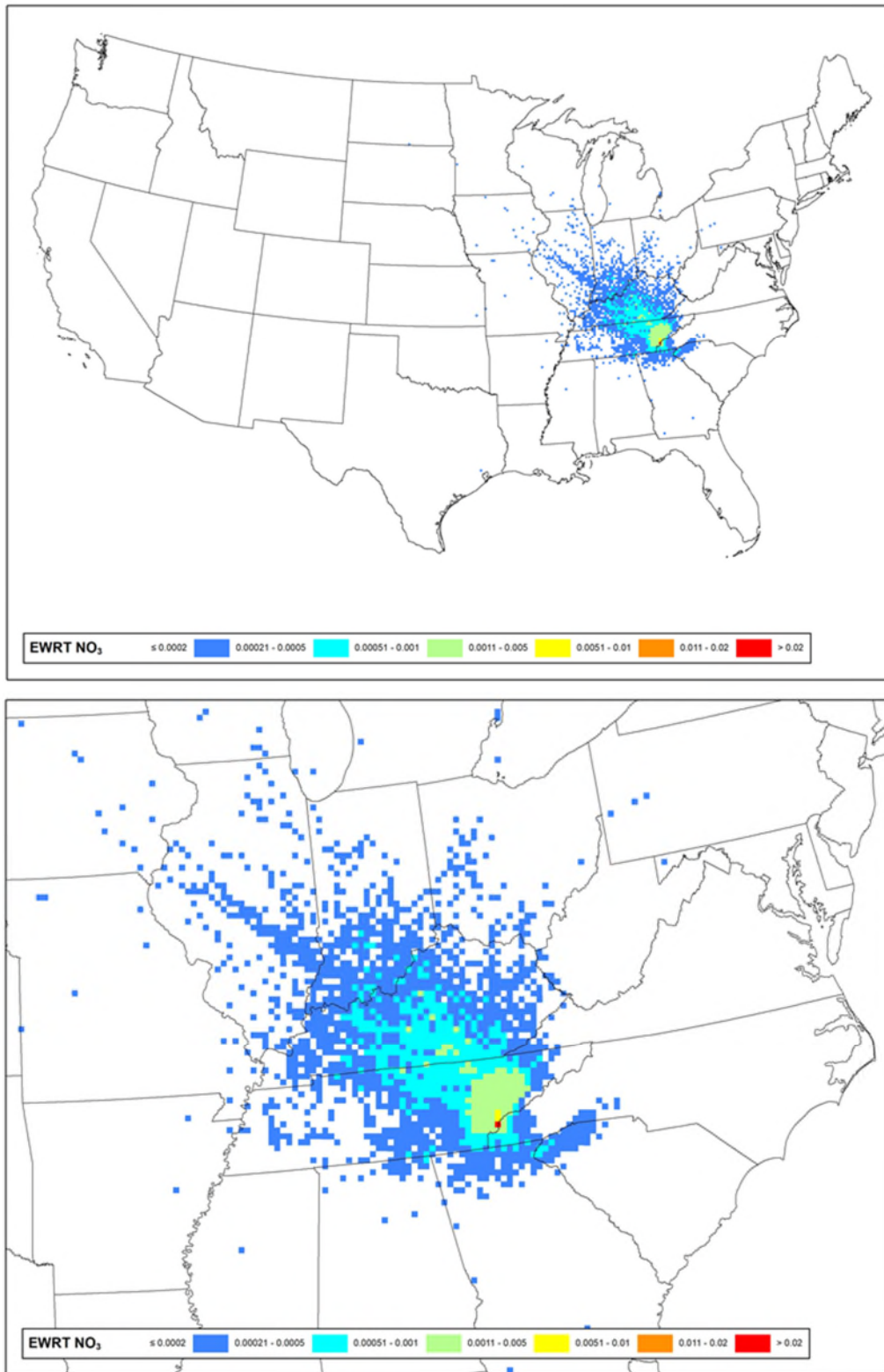


**Figure 5: Residence Time (% of Total Counts per 12km Modeling Grid Cell for Joyce Kilmer/Slickrock Wilderness Area – Full View (top) and Class I Zoom (bottom))**

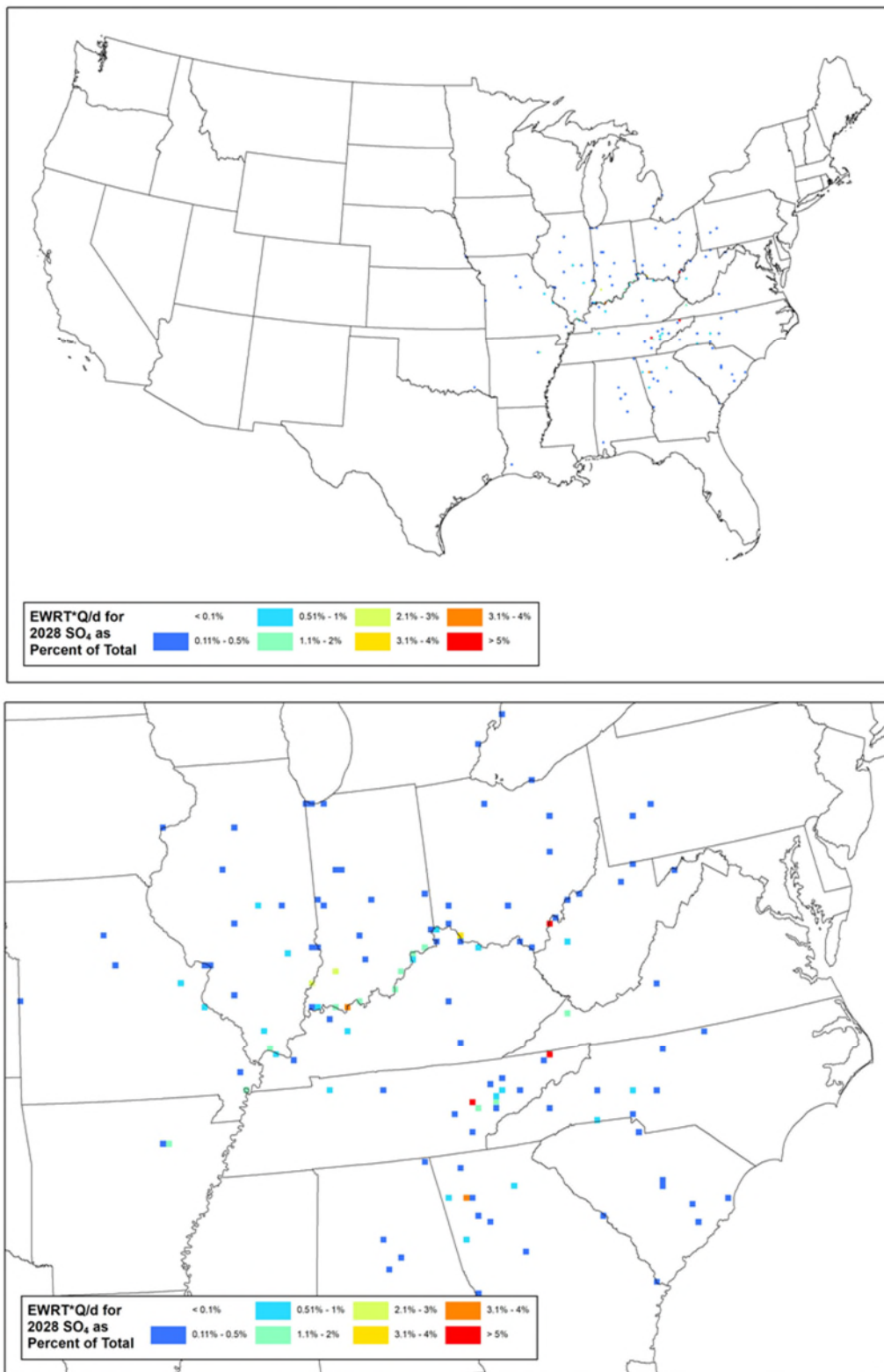




**Figure 6: Sulfate Extinction Weighted Residence Time (Sulfate EWRT per 12km Modeling Grid Cell) for Joyce Kilmer/Slickrock Wilderness Area - Full View (top) and Class I Zoom (bottom)**



**Figure 7: Nitrate Extinction Weighted Residence Time (Nitrate EWRT per 12-km Modeling Grid Cell) for Joyce Kilmer/Slickrock Wilderness Area - Full View (top) and Class I Zoom (bottom)**



**Figure 8: Sulfate Emissions/Distance Extinction Weighted Residence Time (% of Total Q/d\*EWRT per 12km Modeling Grid Cell) for Joyce Kilmer/Slickrock Wilderness Area – Full View (top) and Class I Zoom (bottom)**

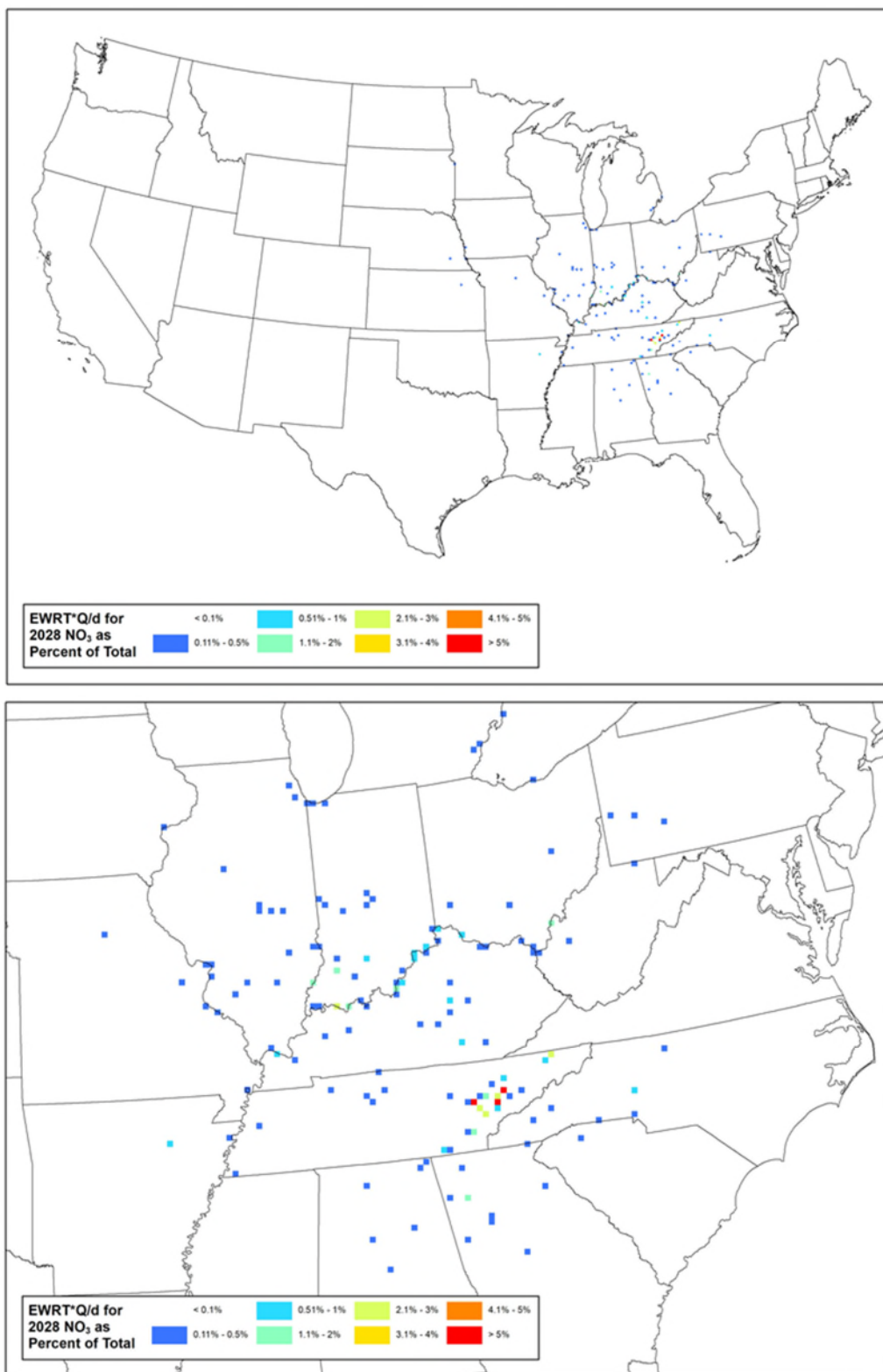
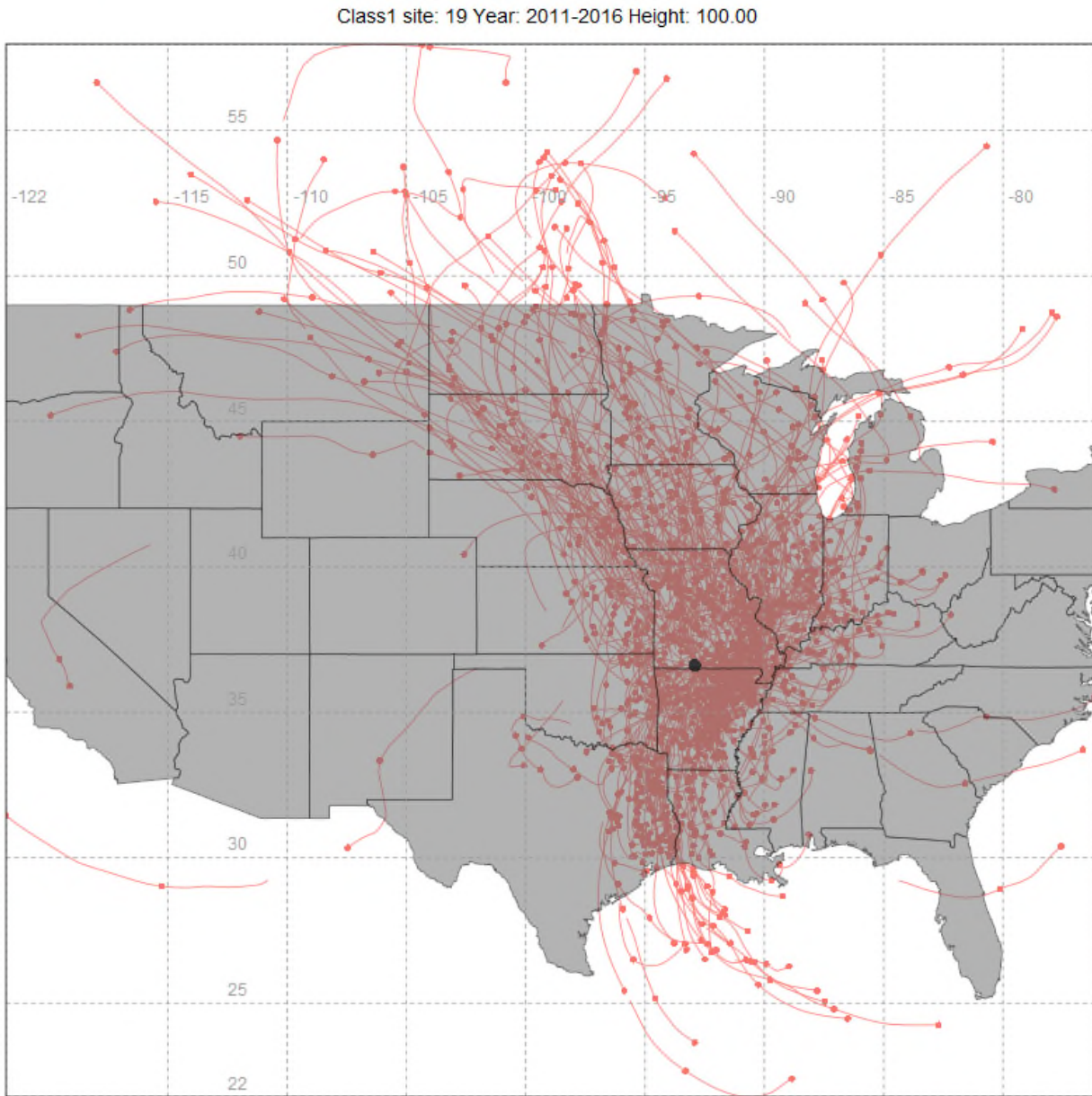


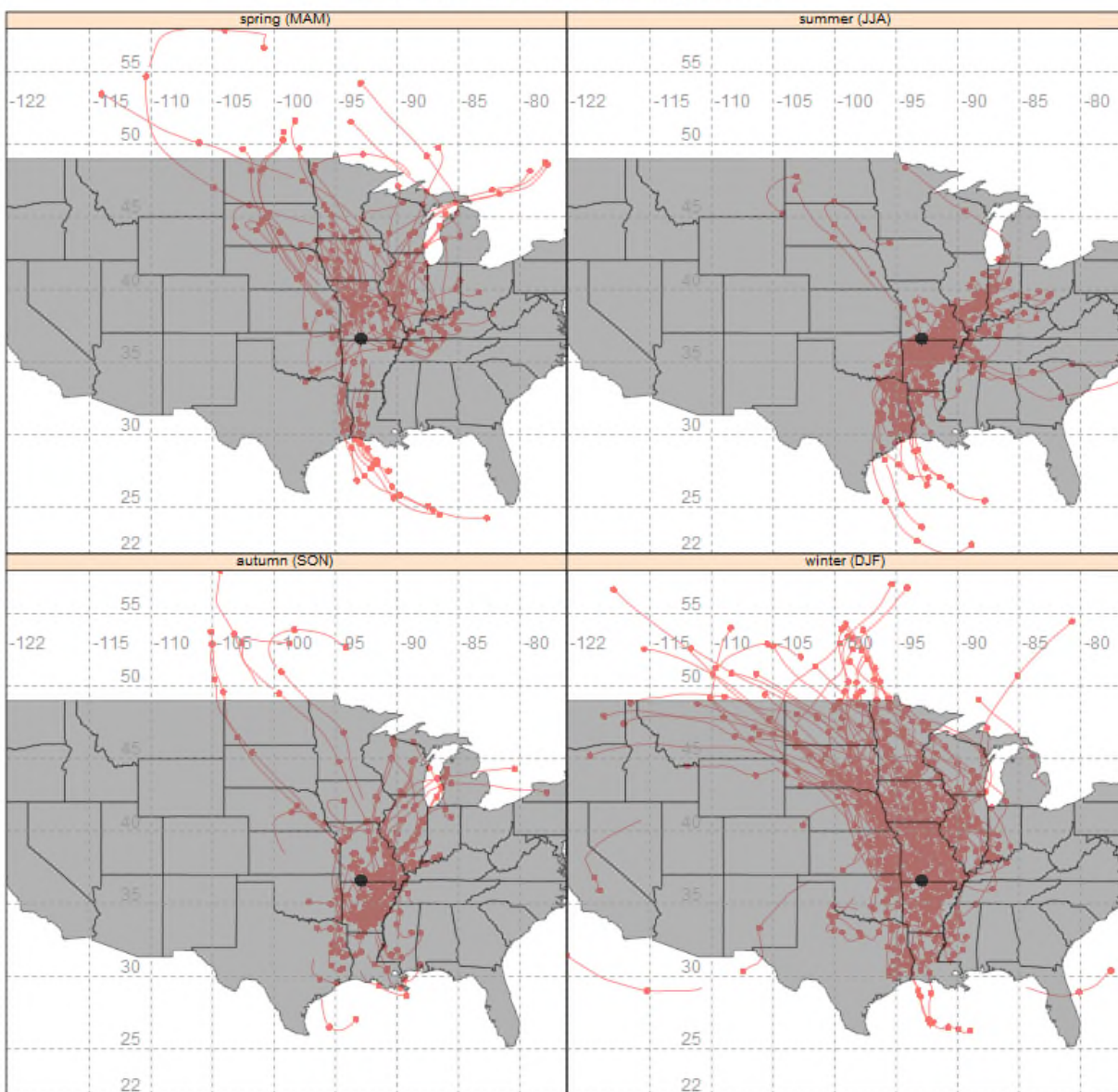
Figure 9: Nitrate Emissions/Distance Extinction Weighted Residence Time (% of Total Q/d\*EWRT per 12km Modeling Grid Cell) for Joyce Kilmer/Slickrock Wilderness Area– Full View (top) and Class I Zoom (bottom)

# Hercules Glade Wilderness Area

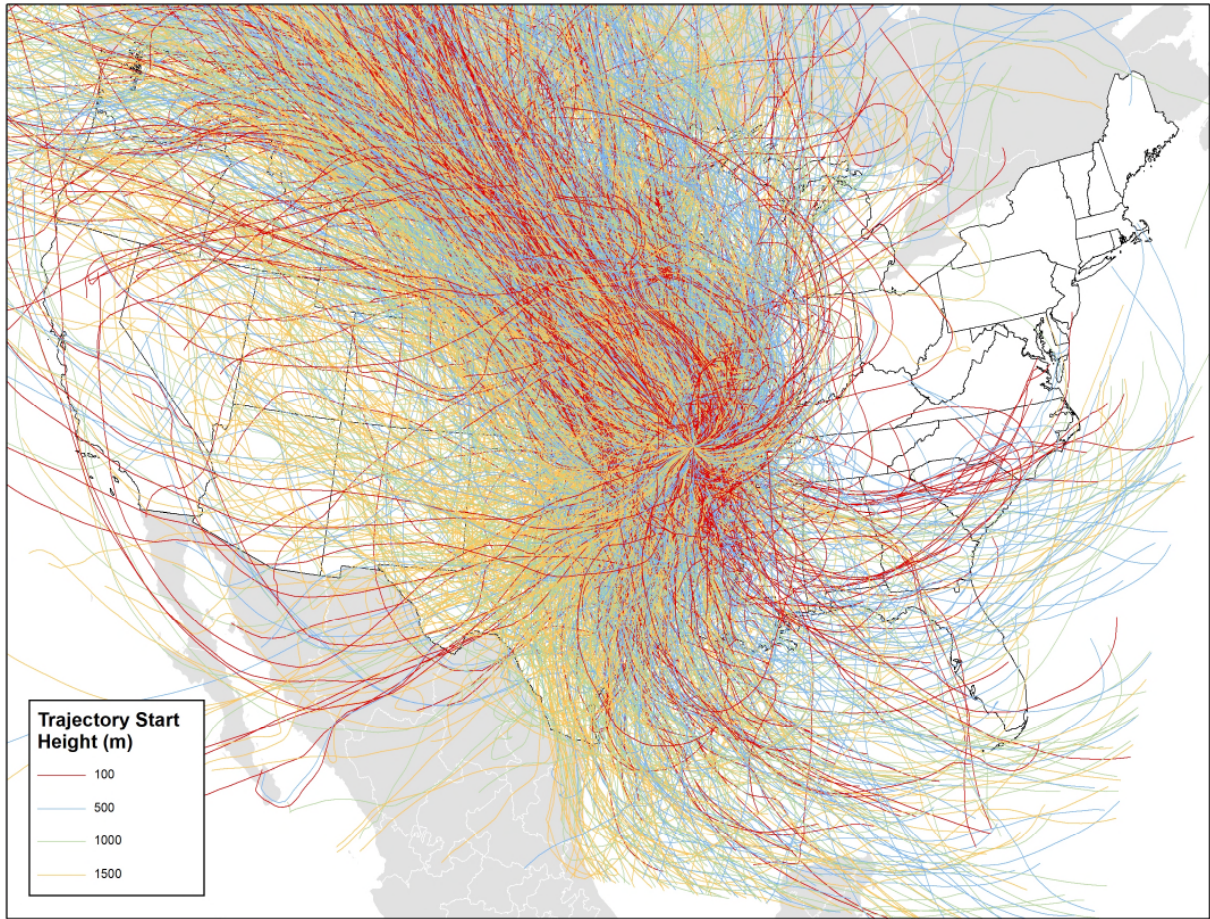


**Figure 1: 100-Meter Back Trajectories for the 20% Most Impaired Visibility Days (2011-2016), from Hercules Glade Wilderness Area**

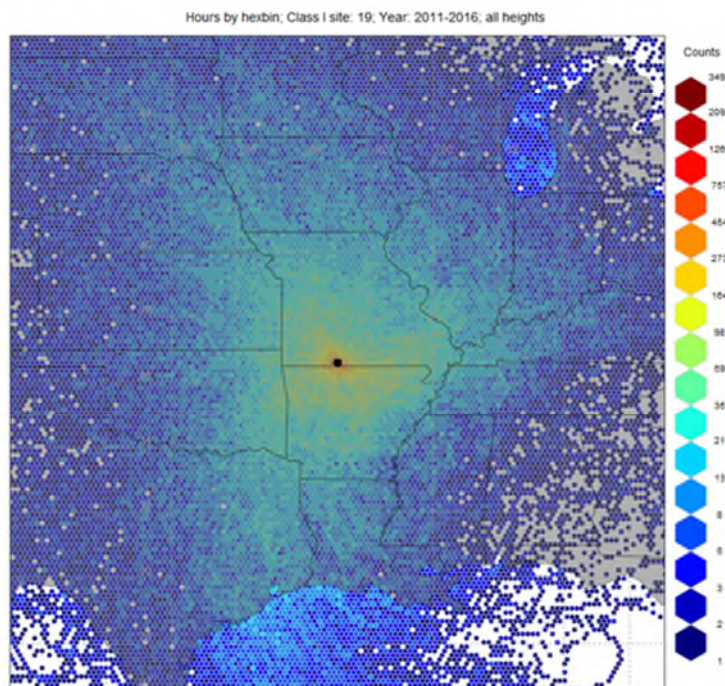
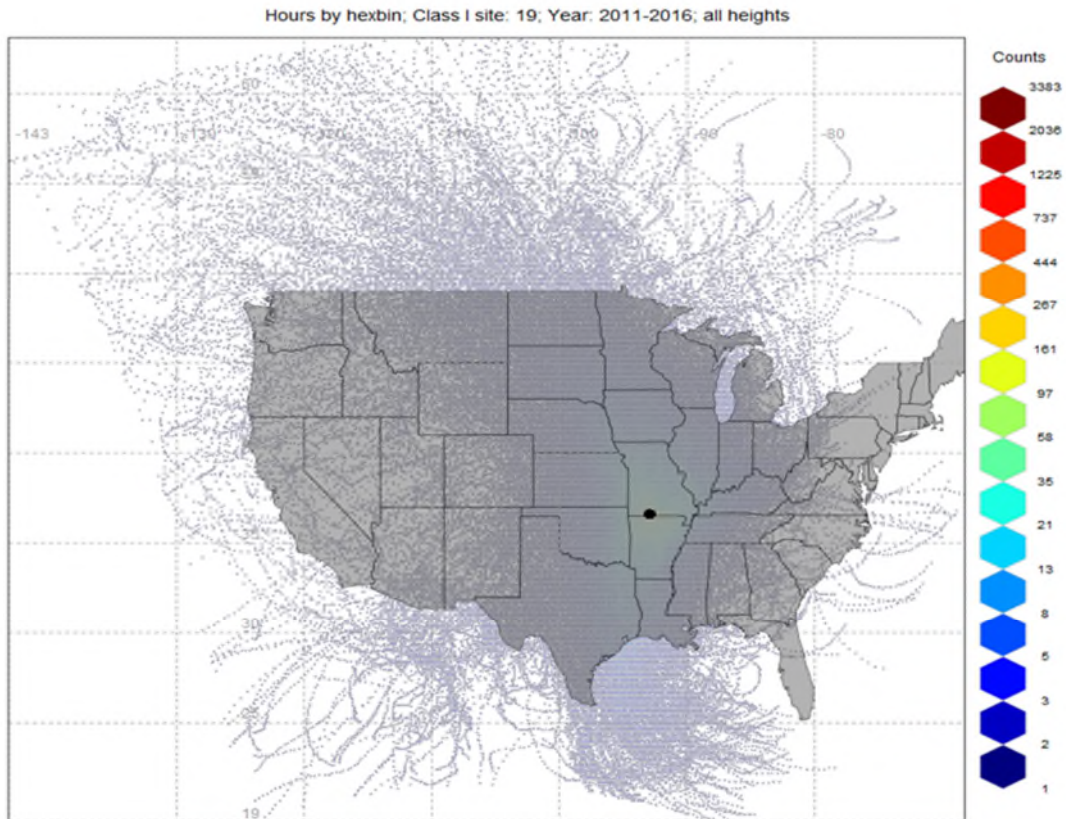
Class1 site: 19 Year: 2011-2016 Height: 100.00



**Figure 2: 100-Meter Back Trajectories by Season for the 20% Most Impaired Visibility Days (2011-2016) from Hercules Glade Wilderness Area**

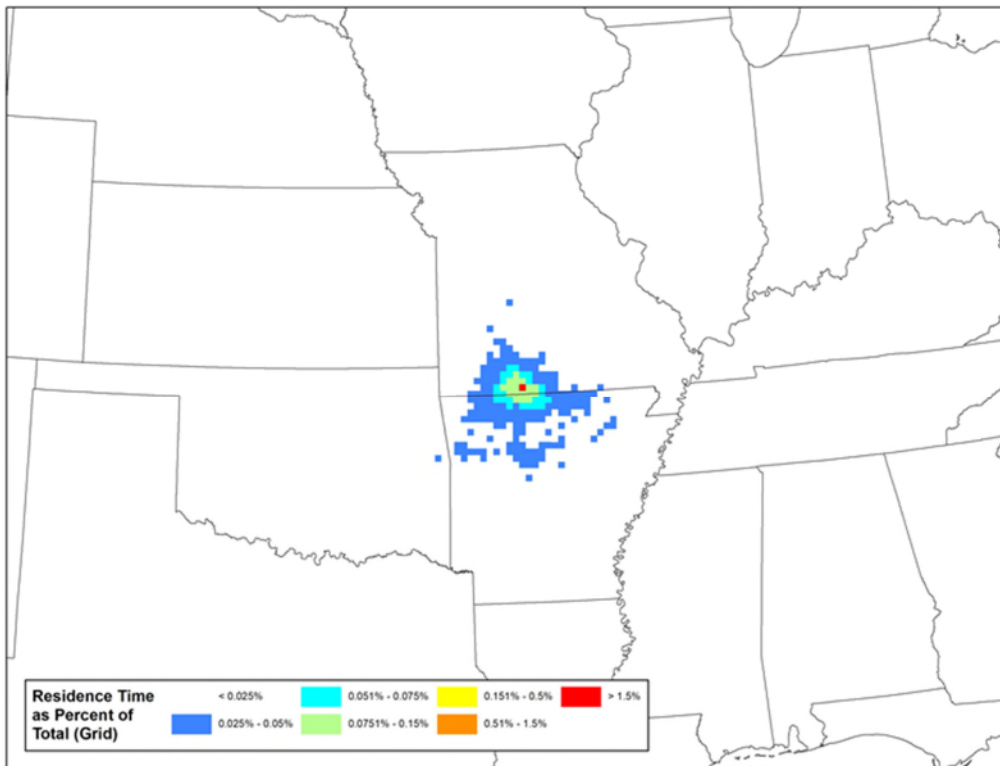
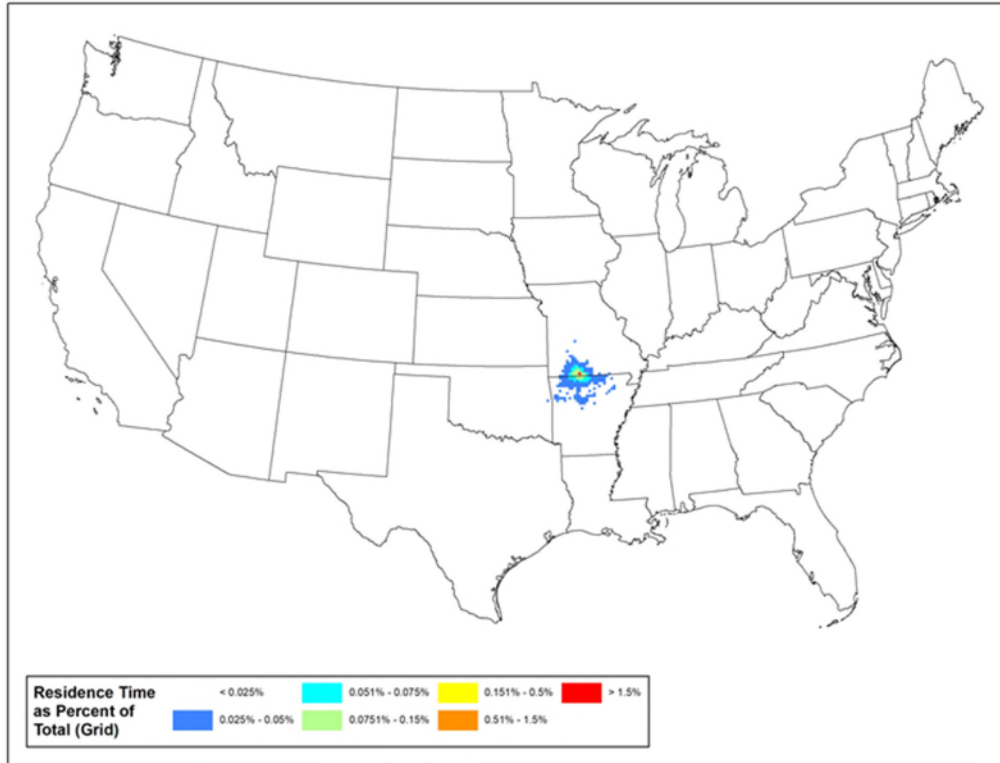


**Figure 3: 100-Meter, 500-Meter, 1000-Meter, and 1500-Meter Back Trajectories for the 20% Most Impaired Days (2011-2016) from Hercules Glade Wilderness Area**

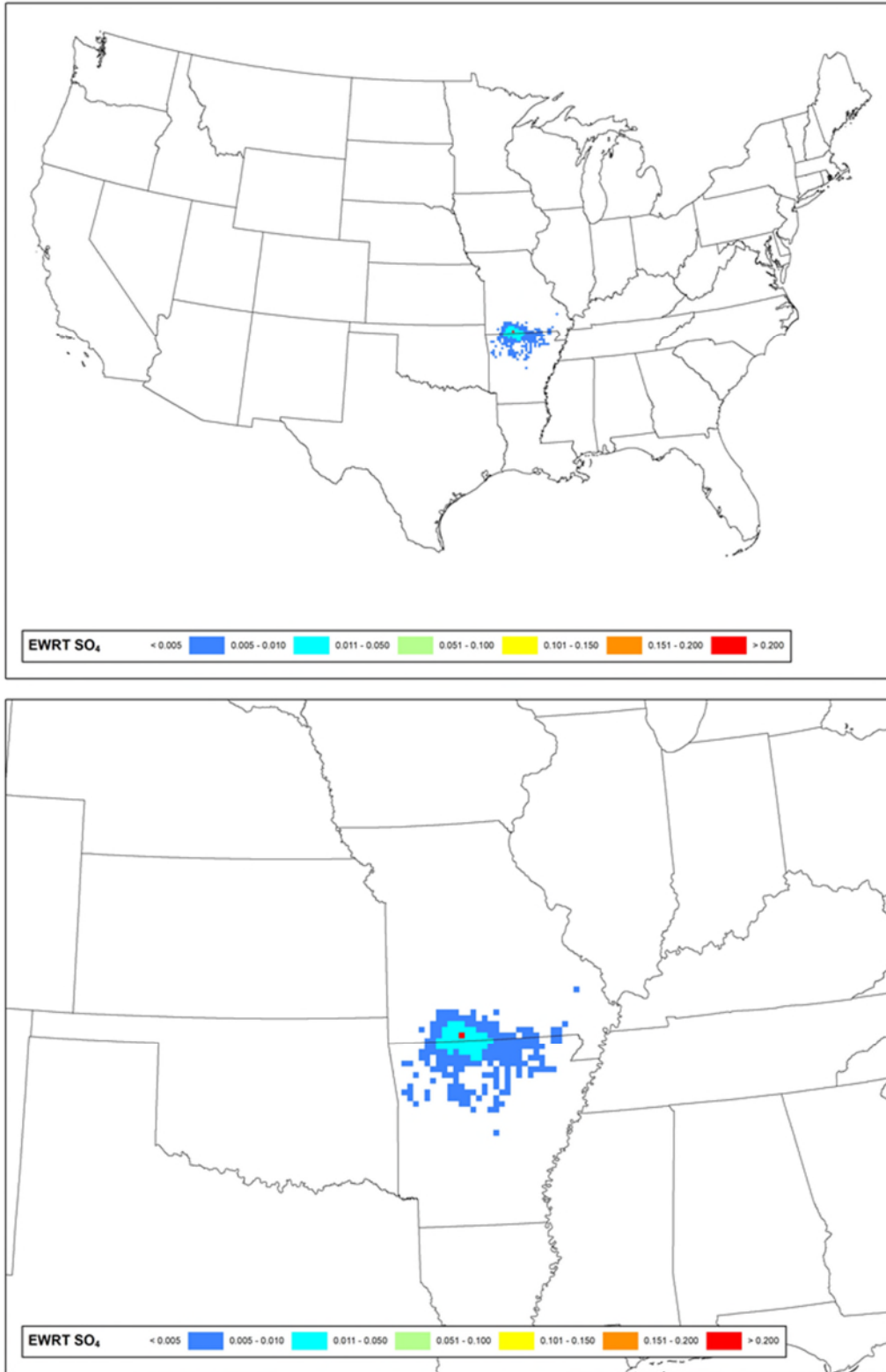


**Figure 4: Residence Time (Counts per 12km Modeling Grid Cell) for Hercules Glade Wilderness Area – Full View (top) and Class I Zoom (bottom)**

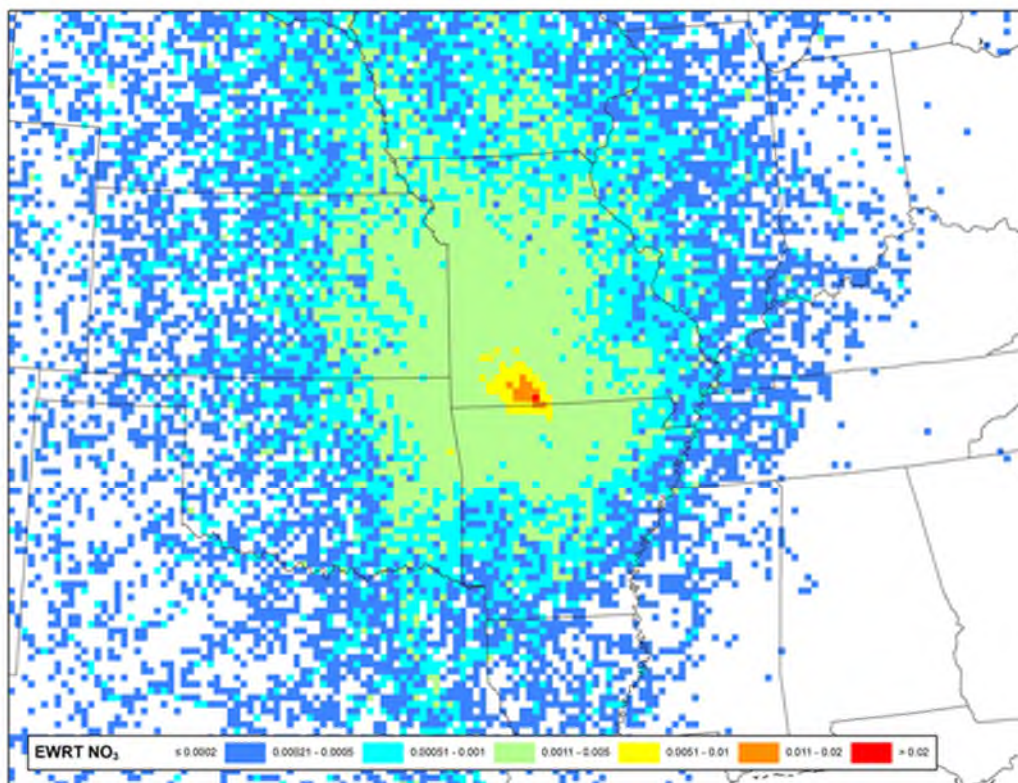
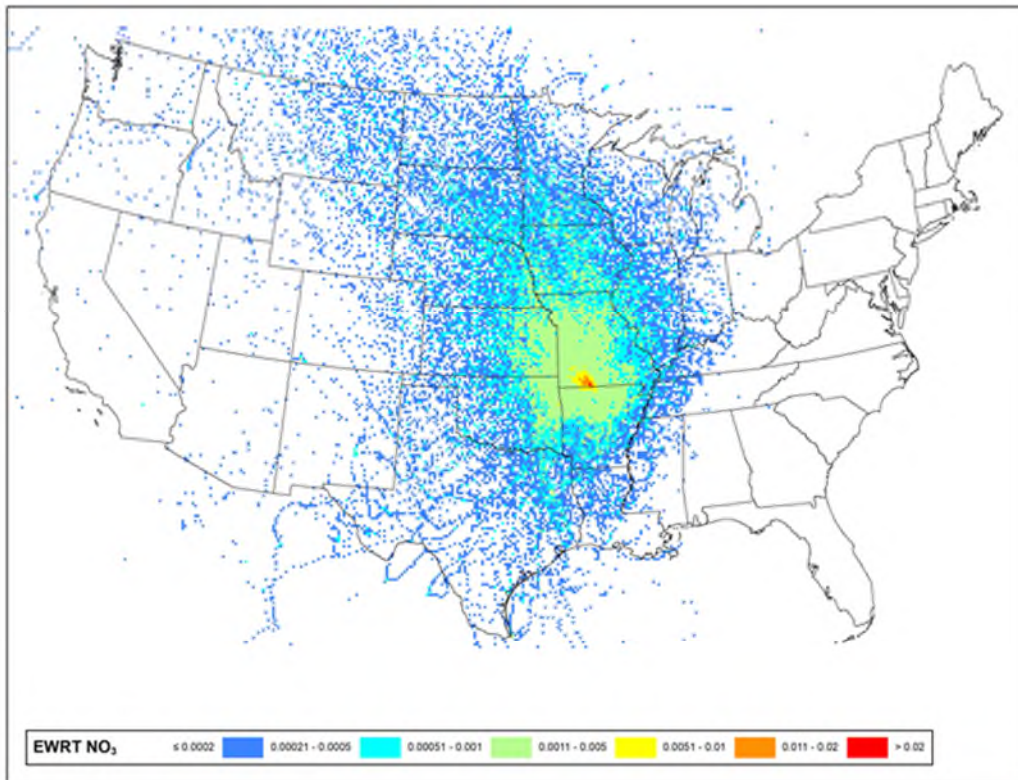




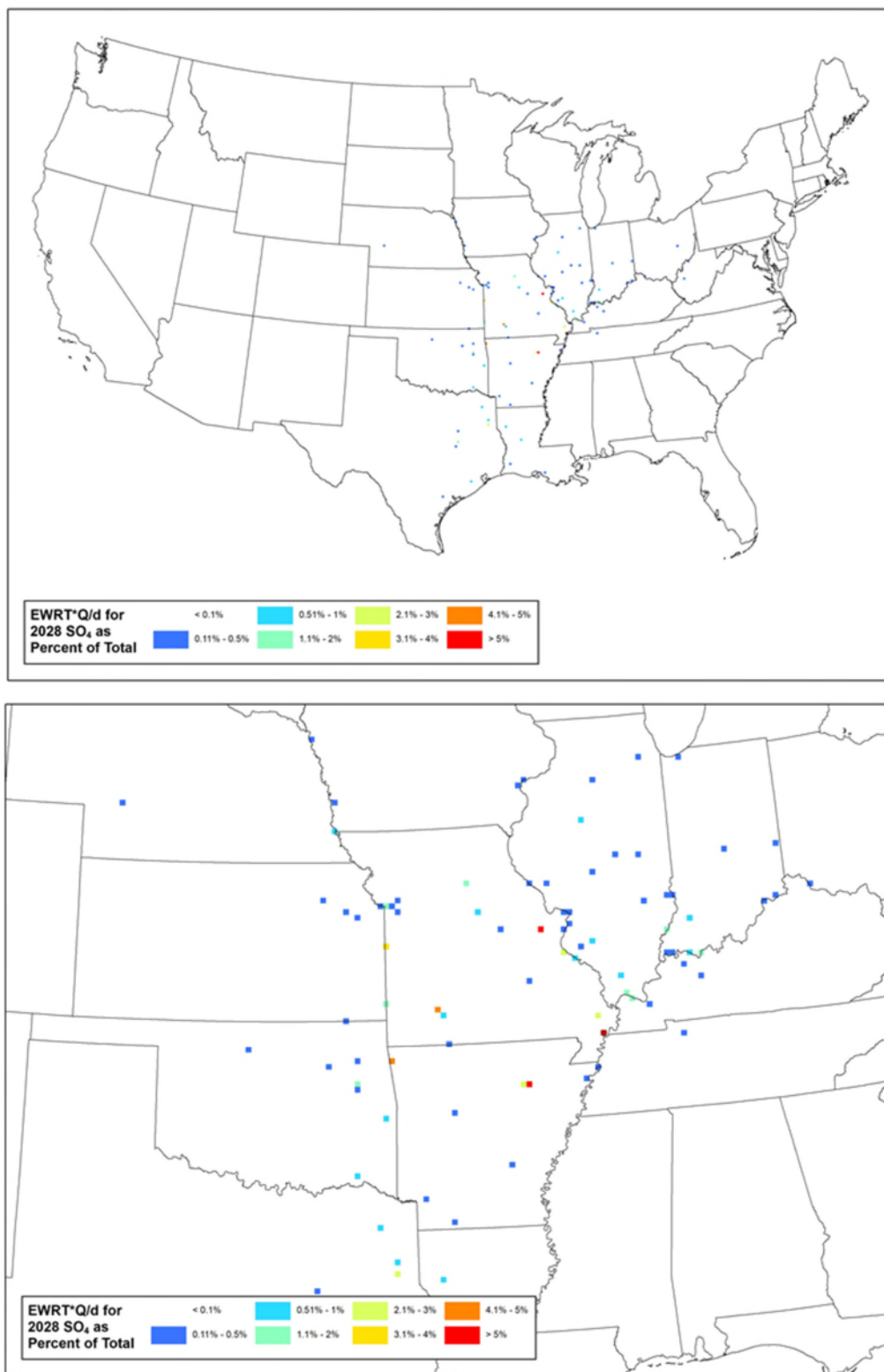
**Figure 5: Residence Time (% of Total Counts per 12km Modeling Grid Cell for Hercules Glade Wilderness Area – Full View (top) and Class I Zoom (bottom))**



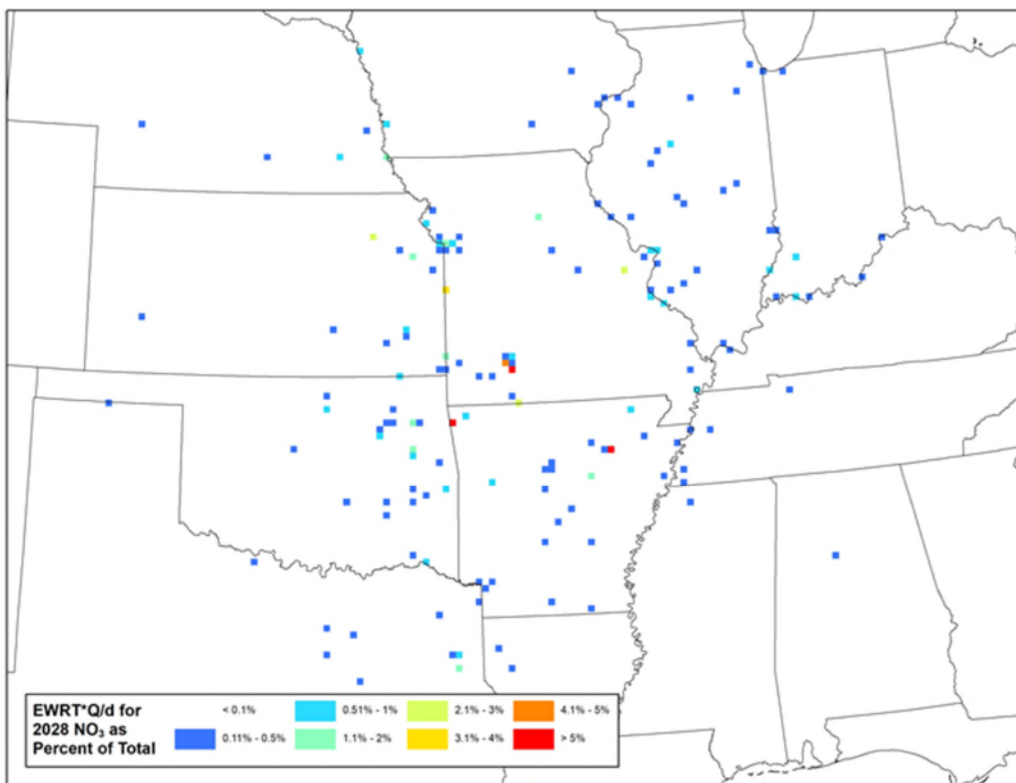
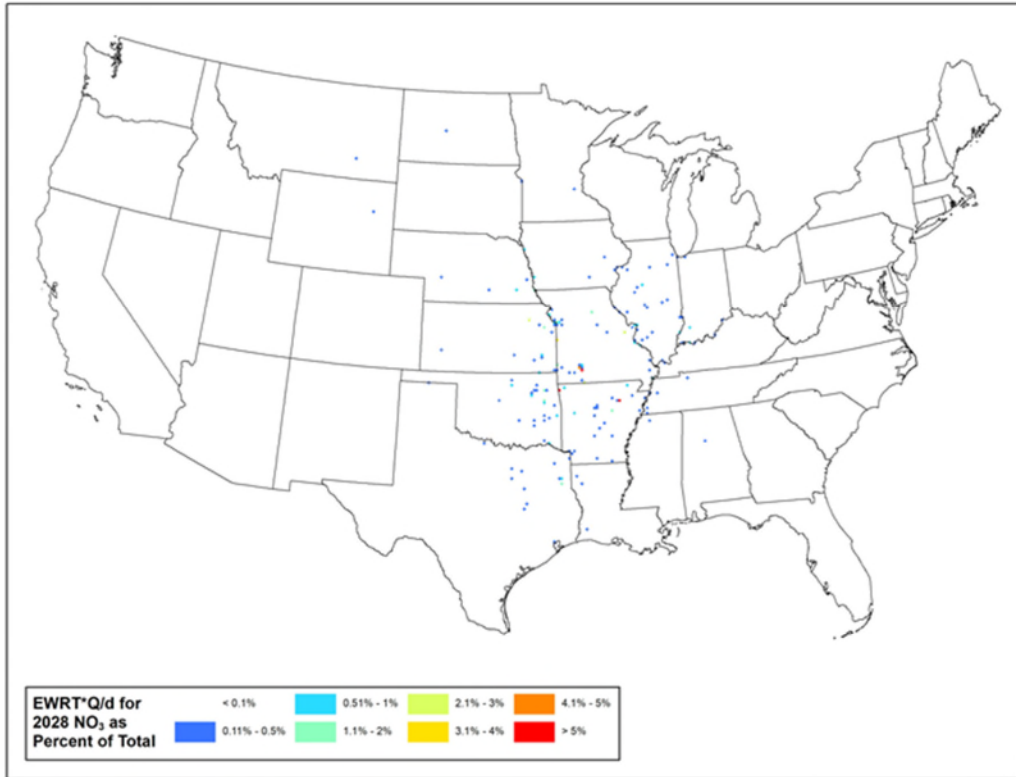
**Figure 6: Sulfate Extinction Weighted Residence Time (Sulfate EWRT per 12km Modeling Grid Cell) for Hercules Glade Wilderness Area - Full View (top) and Class I Zoom (bottom)**



**Figure 7: Nitrate Extinction Weighted Residence Time (Nitrate EWRT per 12-km Modeling Grid Cell) for Hercules Glade Wilderness Area - Full View (top) and Class I Zoom (bottom)**



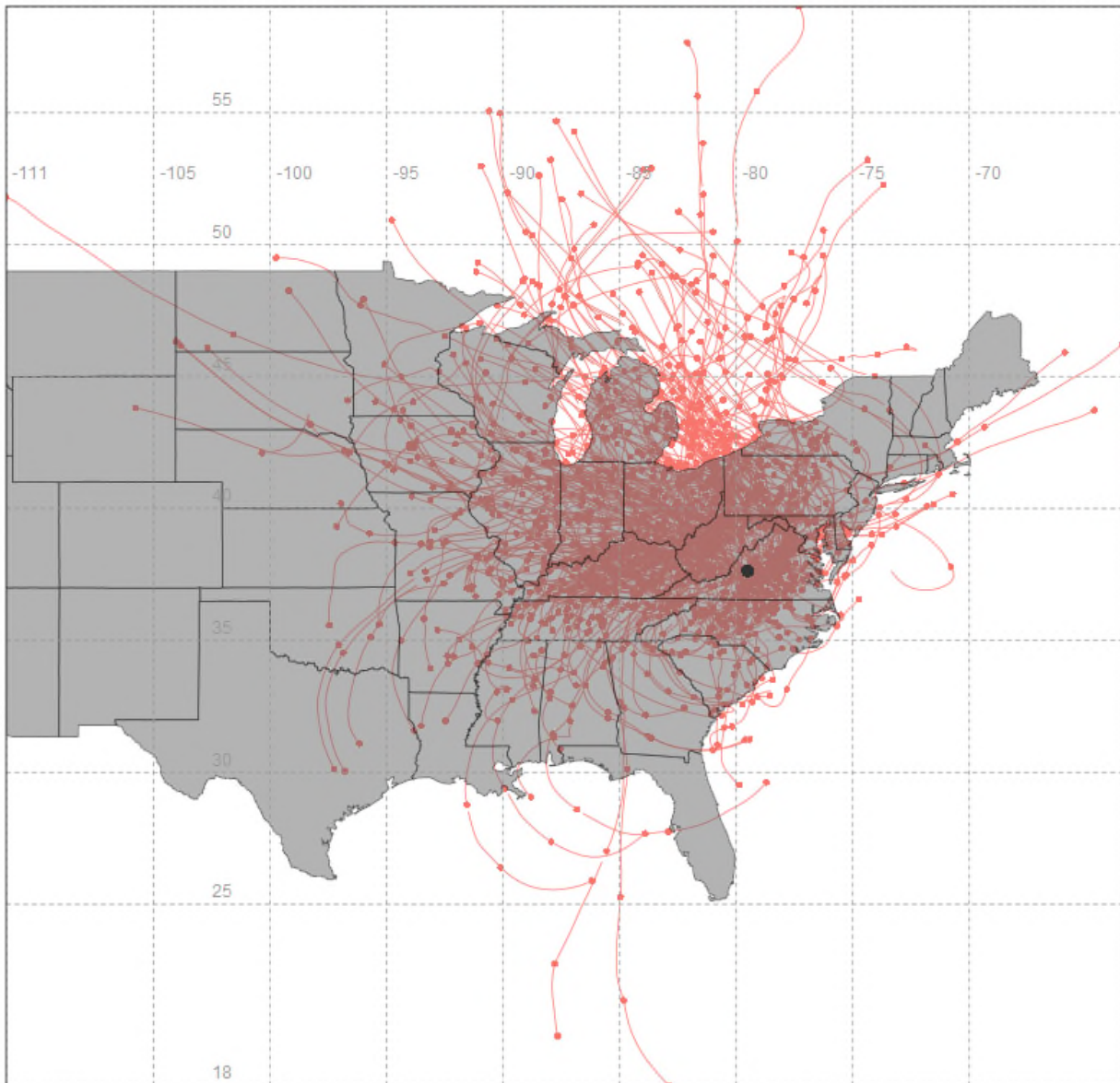
**Figure 8: Sulfate Emissions/Distance Extinction Weighted Residence Time (% of Total Q/d\*EWRT per 12km Modeling Grid Cell) for Hercules Glade Wilderness Area – Full View (top) and Class I Zoom (bottom)**



**Figure 9: Nitrate Emissions/Distance Extinction Weighted Residence Time (% of Total Q/d\*EWRT per 12km Modeling Grid Cell) for Hercules Glade Wilderness Area– Full View (top) and Class I Zoom (bottom)**

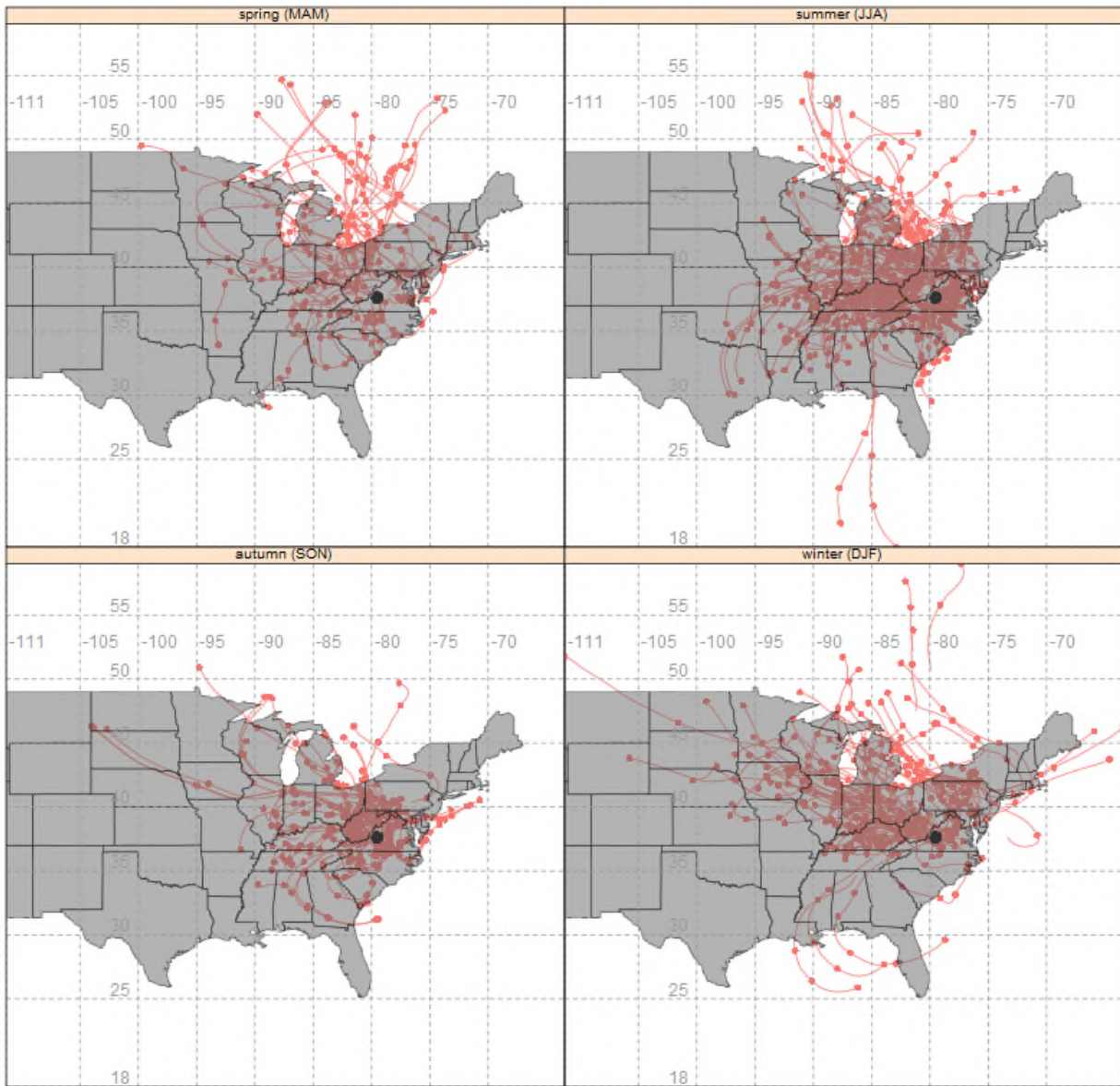
# James River Face Wilderness Area

Class1 site: 21 Year: 2011-2016 Height: 100.00

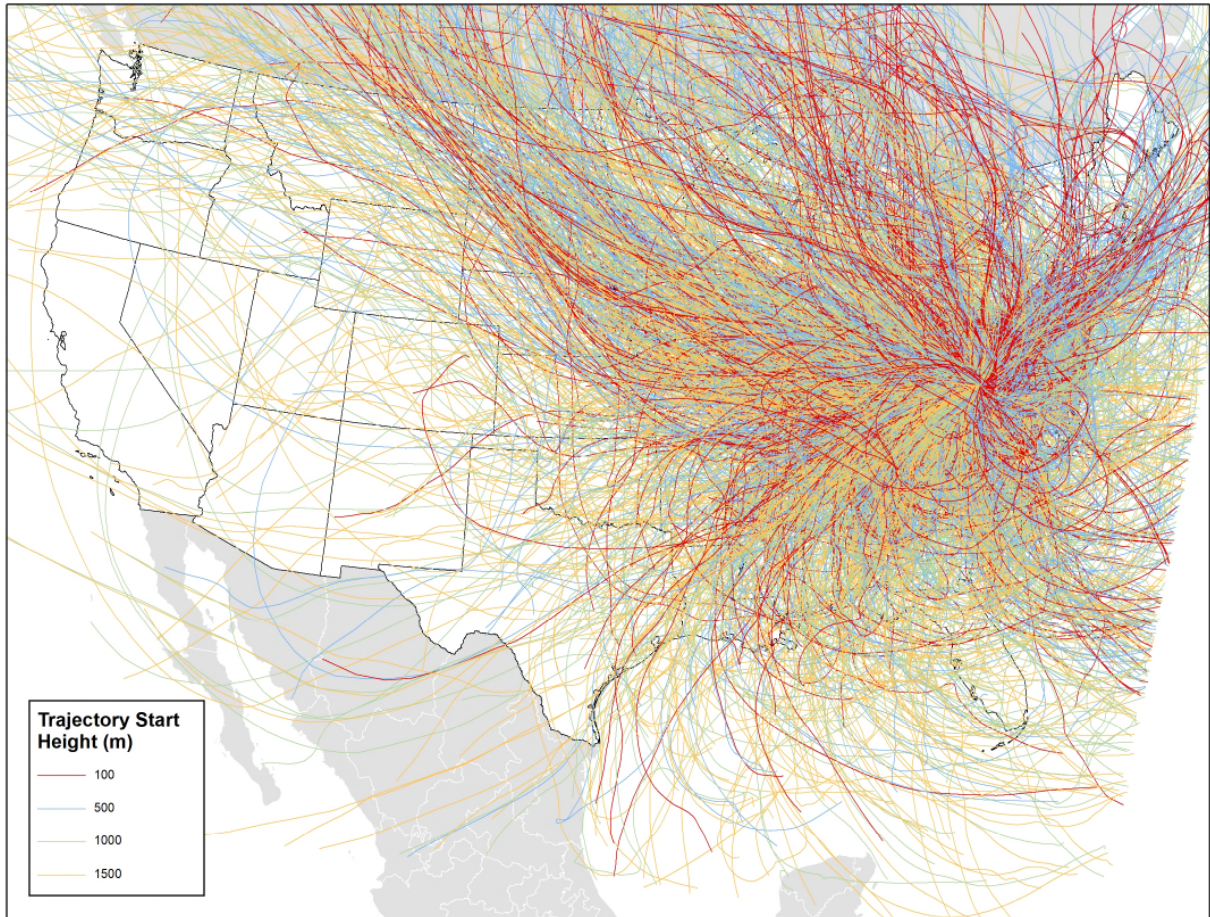


**Figure 1: 100-Meter Back Trajectories for the 20% Most Impaired Visibility Days (2011-2016), from James River Face Wilderness Area**

Class1 site: 21 Year: 2011-2016 Height: 100.00

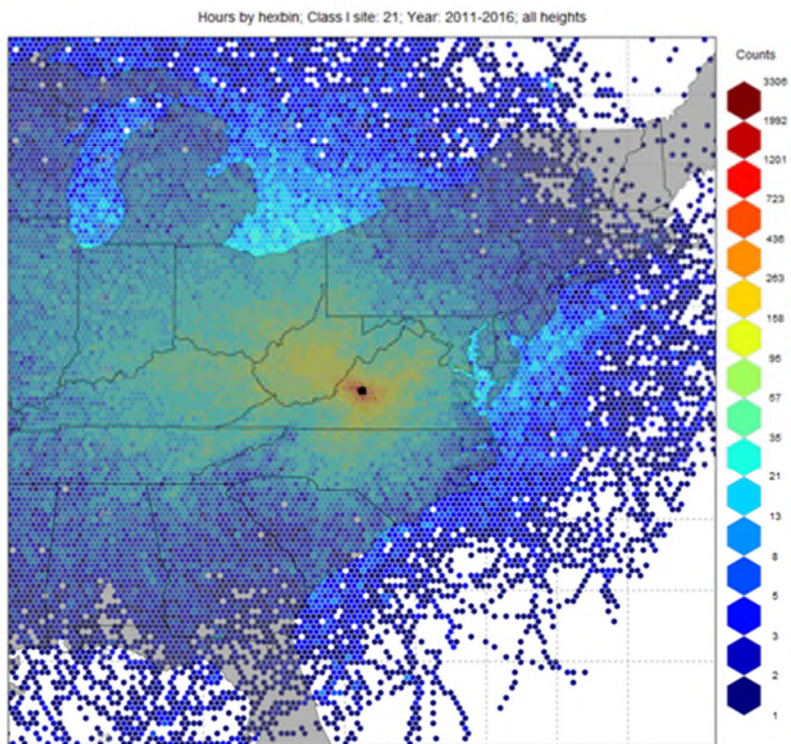
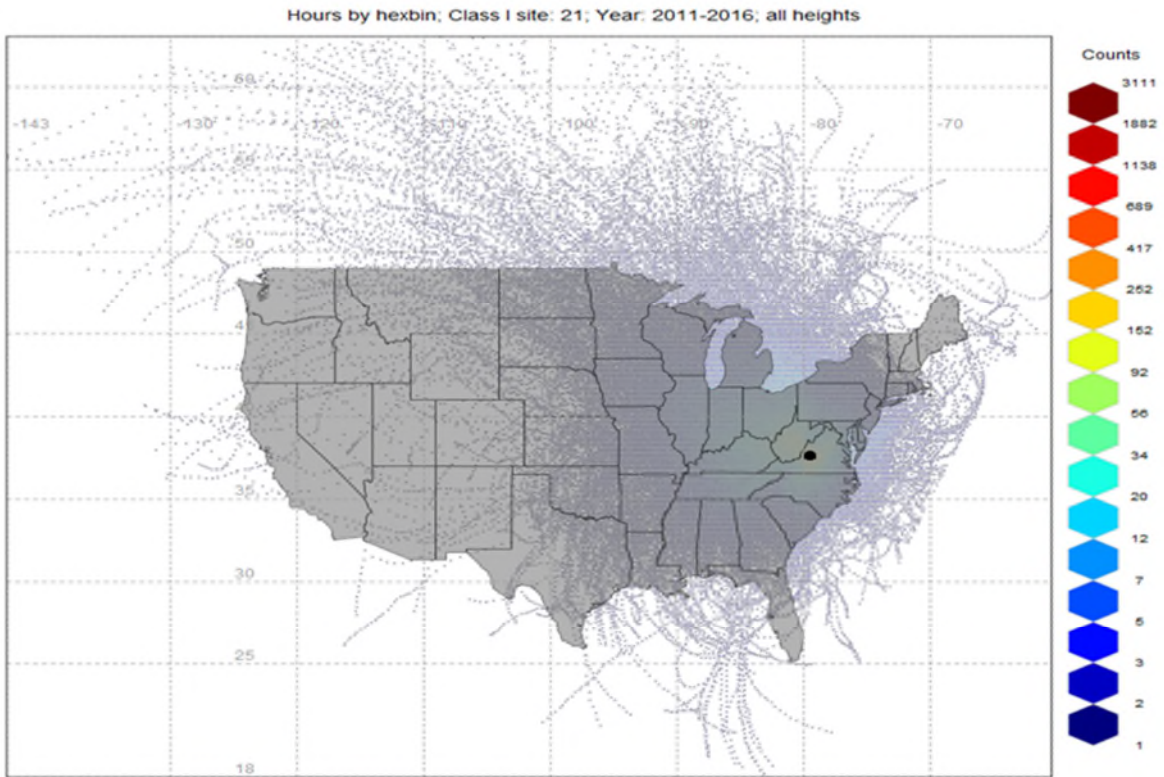


**Figure 2: 100-Meter Back Trajectories by Season for the 20% Most Impaired Visibility Days (2011-2016) from James River Face Wilderness Area**

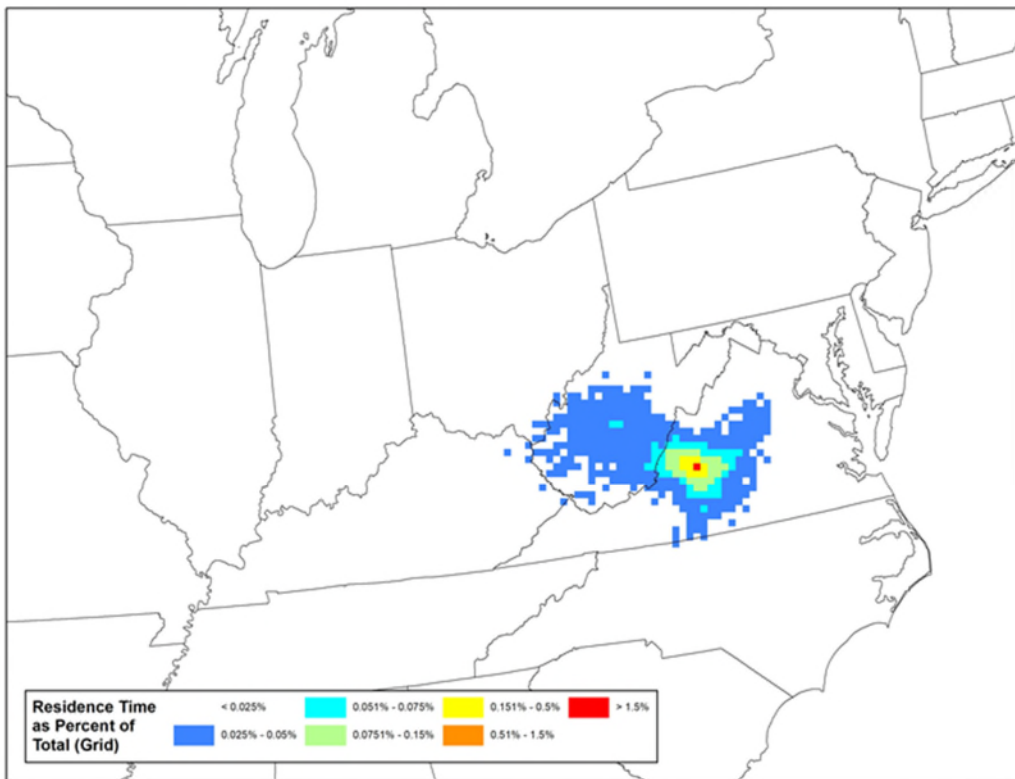
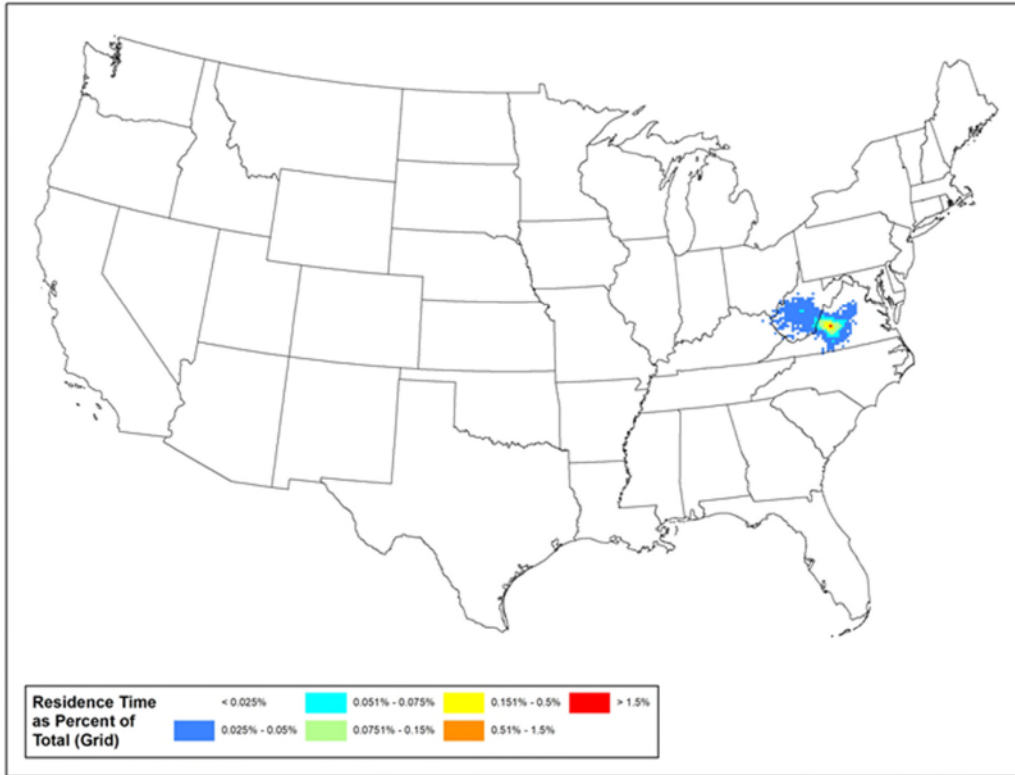


**Figure 3: 100-Meter, 500-Meter, 1000-Meter, and 1500-Meter Back Trajectories for the 20% Most Impaired Days (2011-2016) from James River Face Wilderness Area**

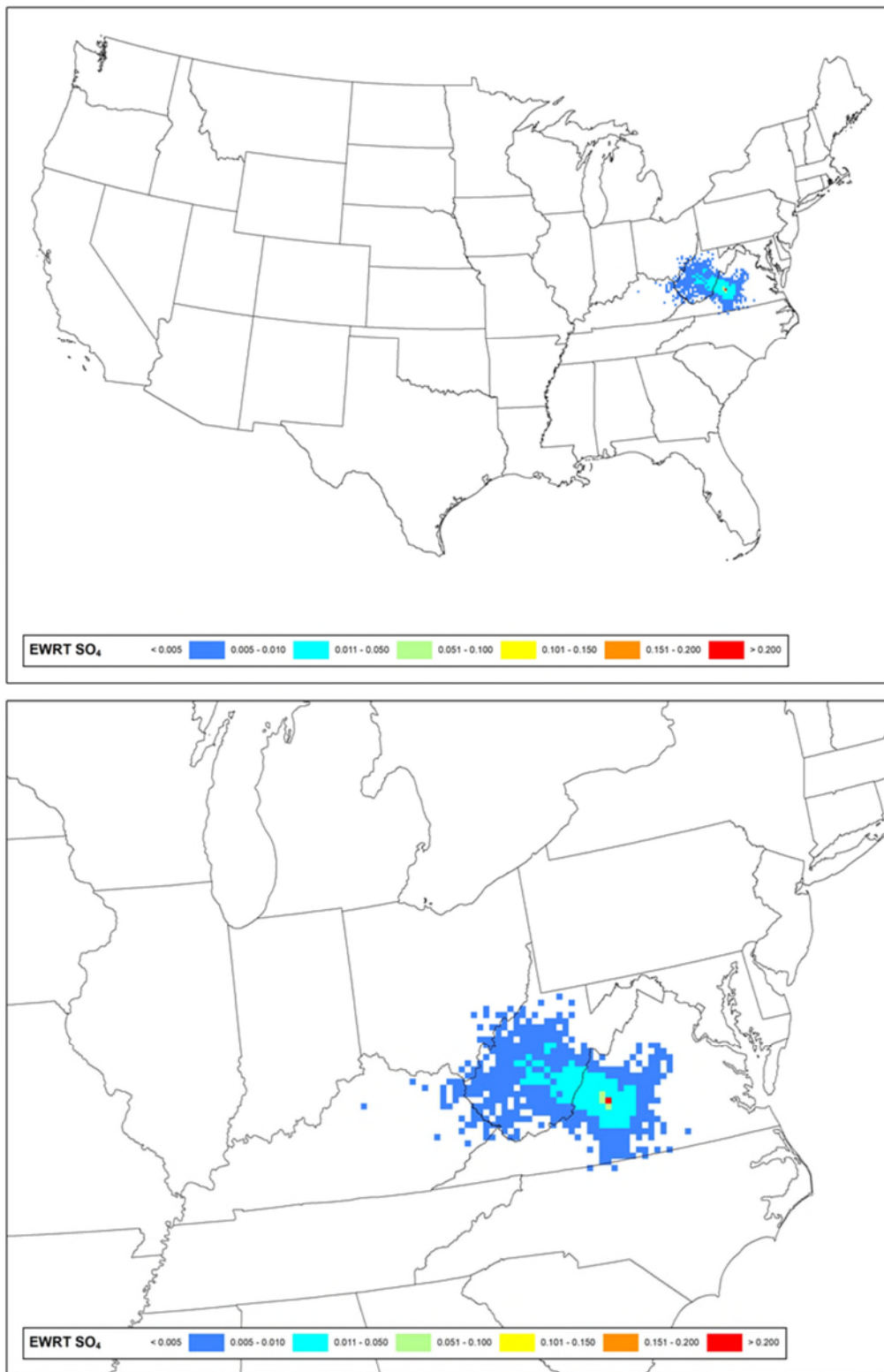




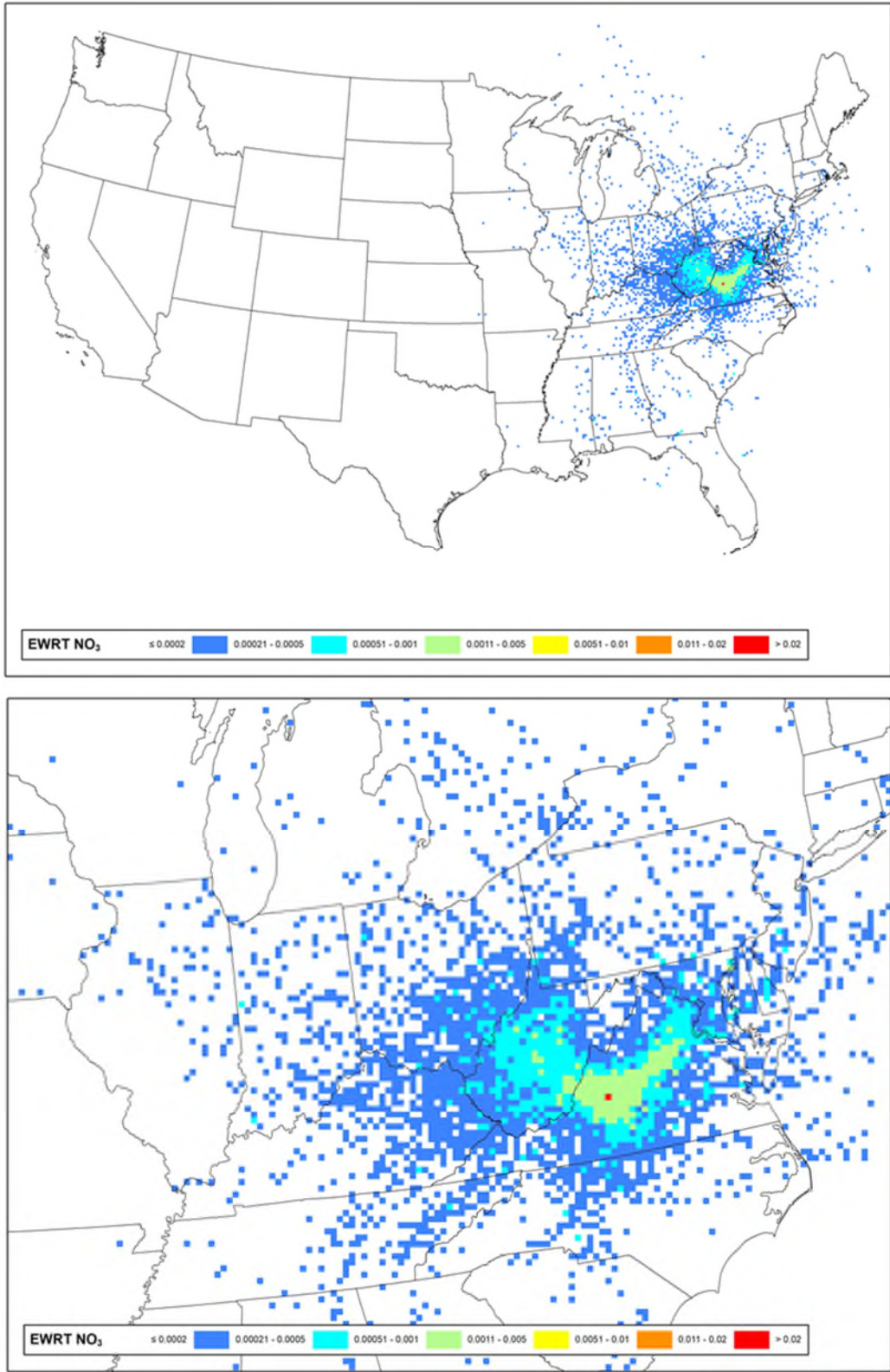
**Figure 4: Residence Time (Counts per 12km Modeling Grid Cell) for James River Face Wilderness Area – Full View (top) and Class I Zoom (bottom)**



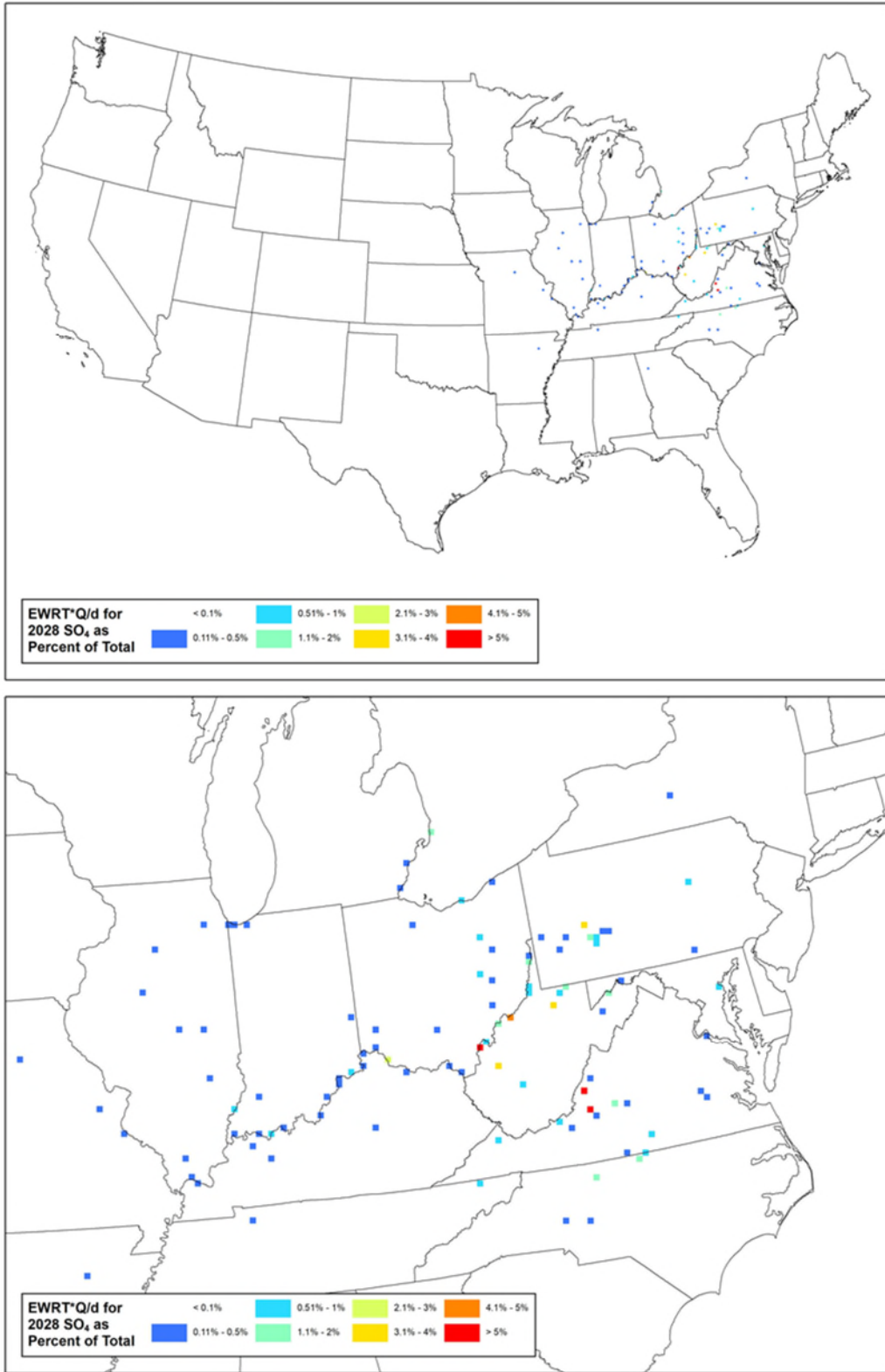
**Figure 5: Residence Time (% of Total Counts per 12km Modeling Grid Cell for James River Face Wilderness Area – Full View (top) and Class I Zoom (bottom)**



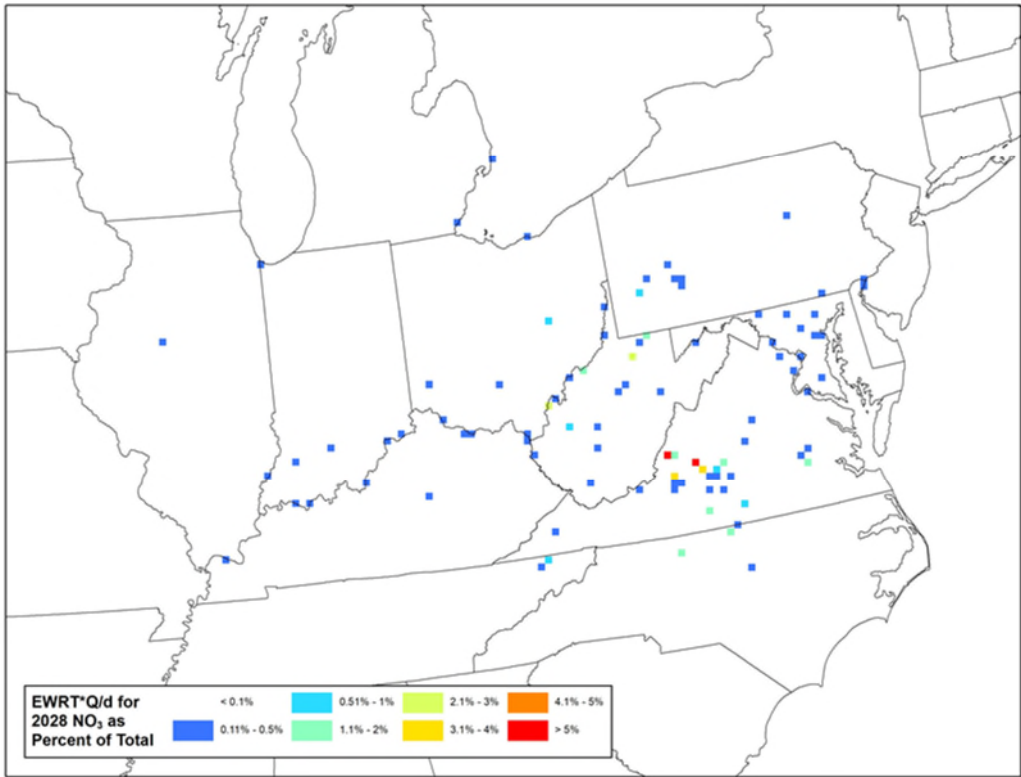
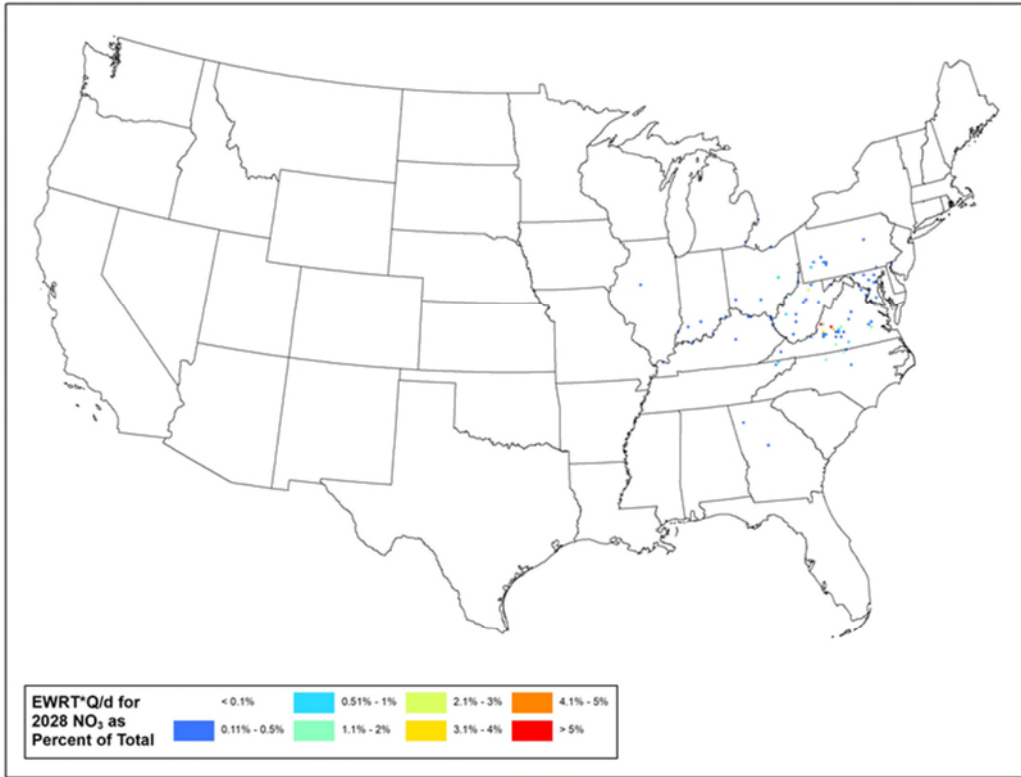
**Figure 6: Sulfate Extinction Weighted Residence Time (Sulfate EWRT per 12km Modeling Grid Cell) for James River Face Wilderness Area - Full View (top) and Class I Zoom (bottom)**



**Figure 7: Nitrate Extinction Weighted Residence Time (Nitrate EWRT per 12-km Modeling Grid Cell) for James River Face Wilderness Area - Full View (top) and Class I Zoom (bottom)**



**Figure 8: Sulfate Emissions/Distance Extinction Weighted Residence Time (% of Total Q/d\*EWRT per 12km Modeling Grid Cell) for James River Face Wilderness Area – Full View (top) and Class I Zoom (bottom)**



**Figure 9: Nitrate Emissions/Distance Extinction Weighted Residence Time (% of Total Q/d\*EWRT per 12km Modeling Grid Cell) for James River Face Wilderness Area– Full View (top) and Class I Zoom (bottom)**