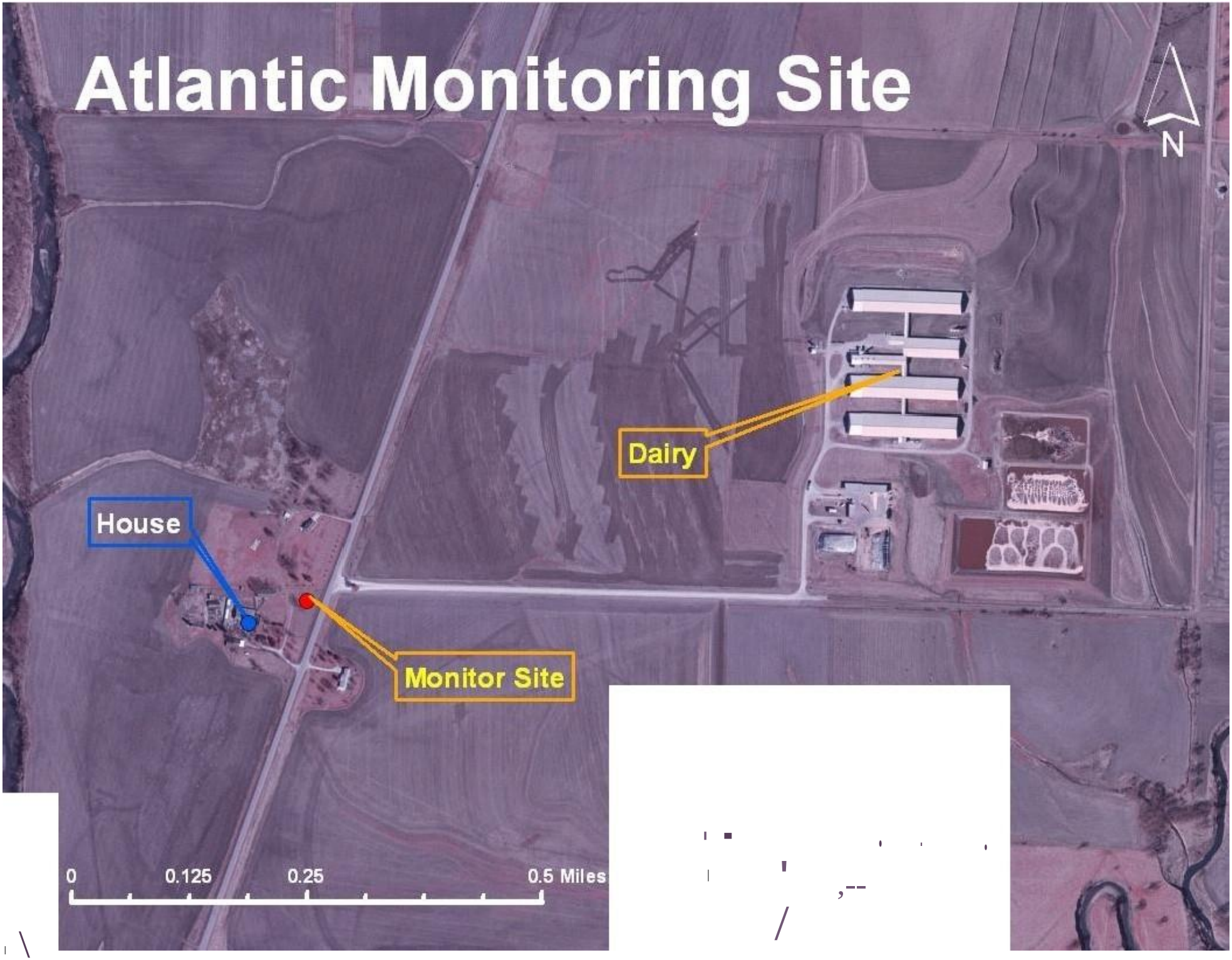
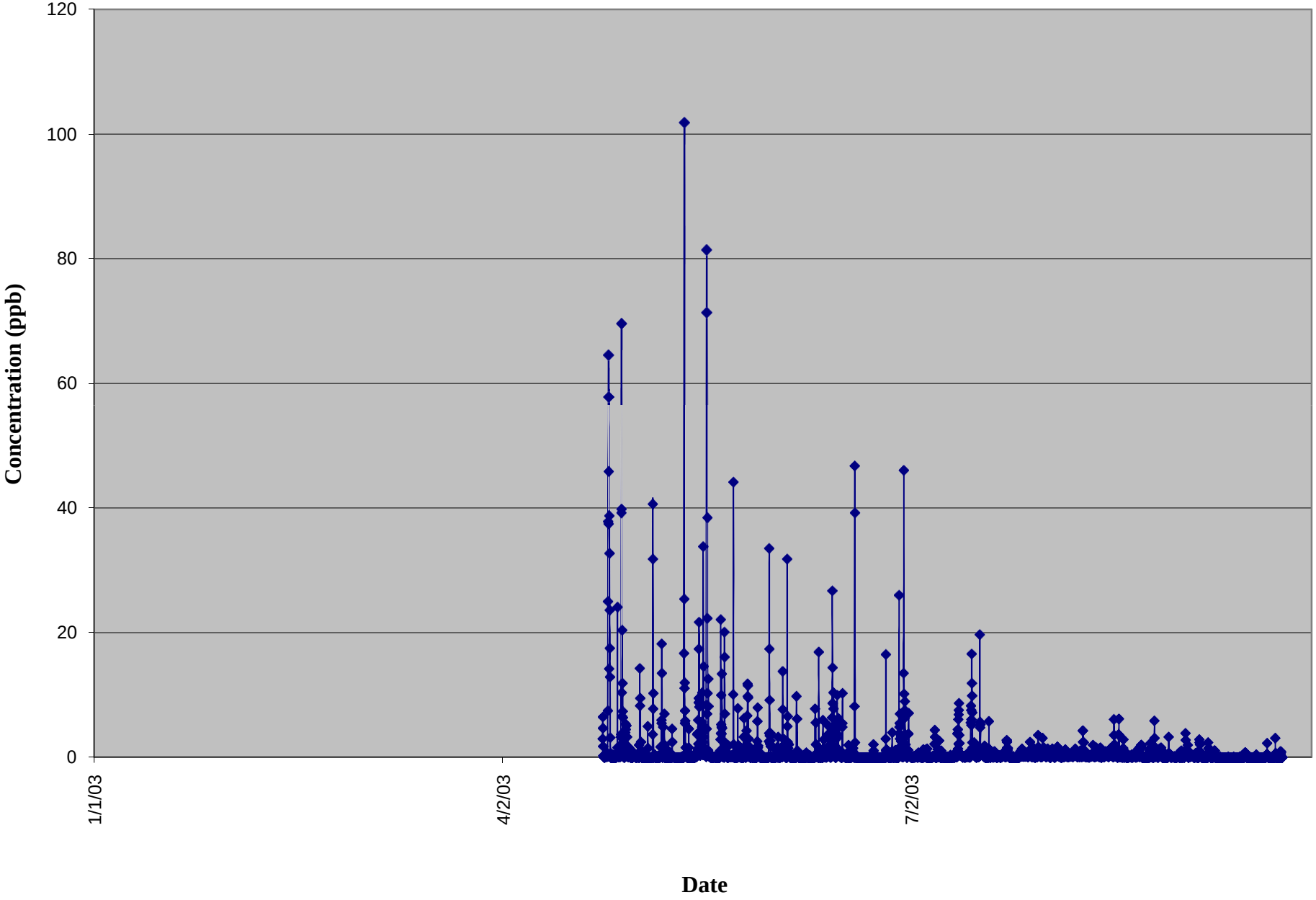
Atlantic

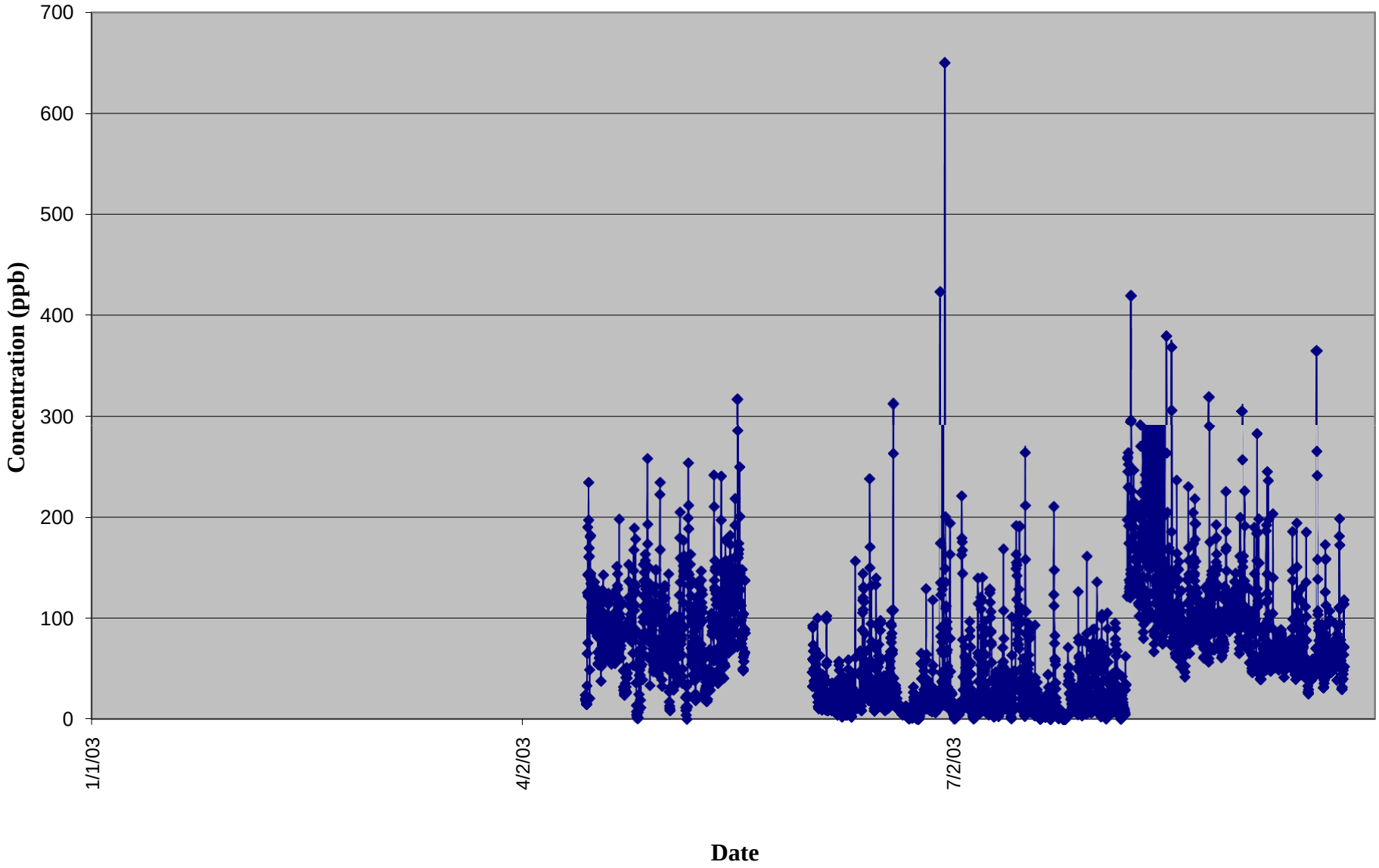
The Atlantic monitoring site was located in Cass County, Iowa. Monitoring for ammonia began on April 15, 2003 and for hydrogen sulfide on April 24, 2003. Monitoring for both gases ended on September 23, 2003. This monitoring site was located near the Dairy Cattle operation owned by Milk Unlimited, which was permitted for 4,320,000 pounds of livestock. The monitors were located in ambient air, on property associated with a residence, and within 100 meters of a house. In late 2003 the property associated with the residence was purchased by Milk Unlimited, which ended the department's ability to monitor at the site. Also, since the house was owned by the owner of the CAFO, it was no longer a separated location. Atlantic has an AQS identification number of 19-029-0003.


Atlantic Monitoring Site
N
Dairy
House
Monitor Site
0
0.125
0.25
0.5 Miles

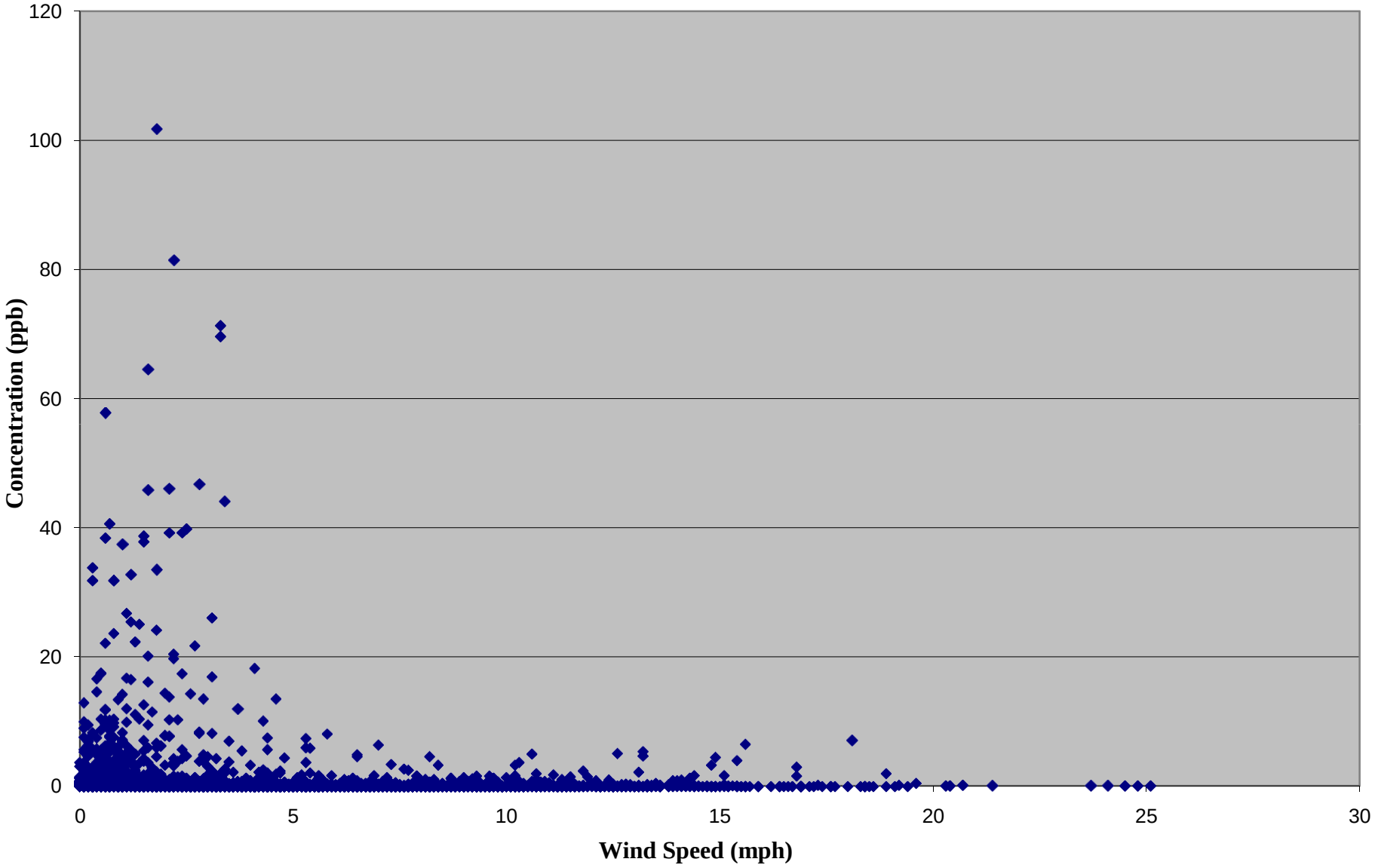
Atlantic CAFO: Hydrogen Sulfide vs Time (2003)

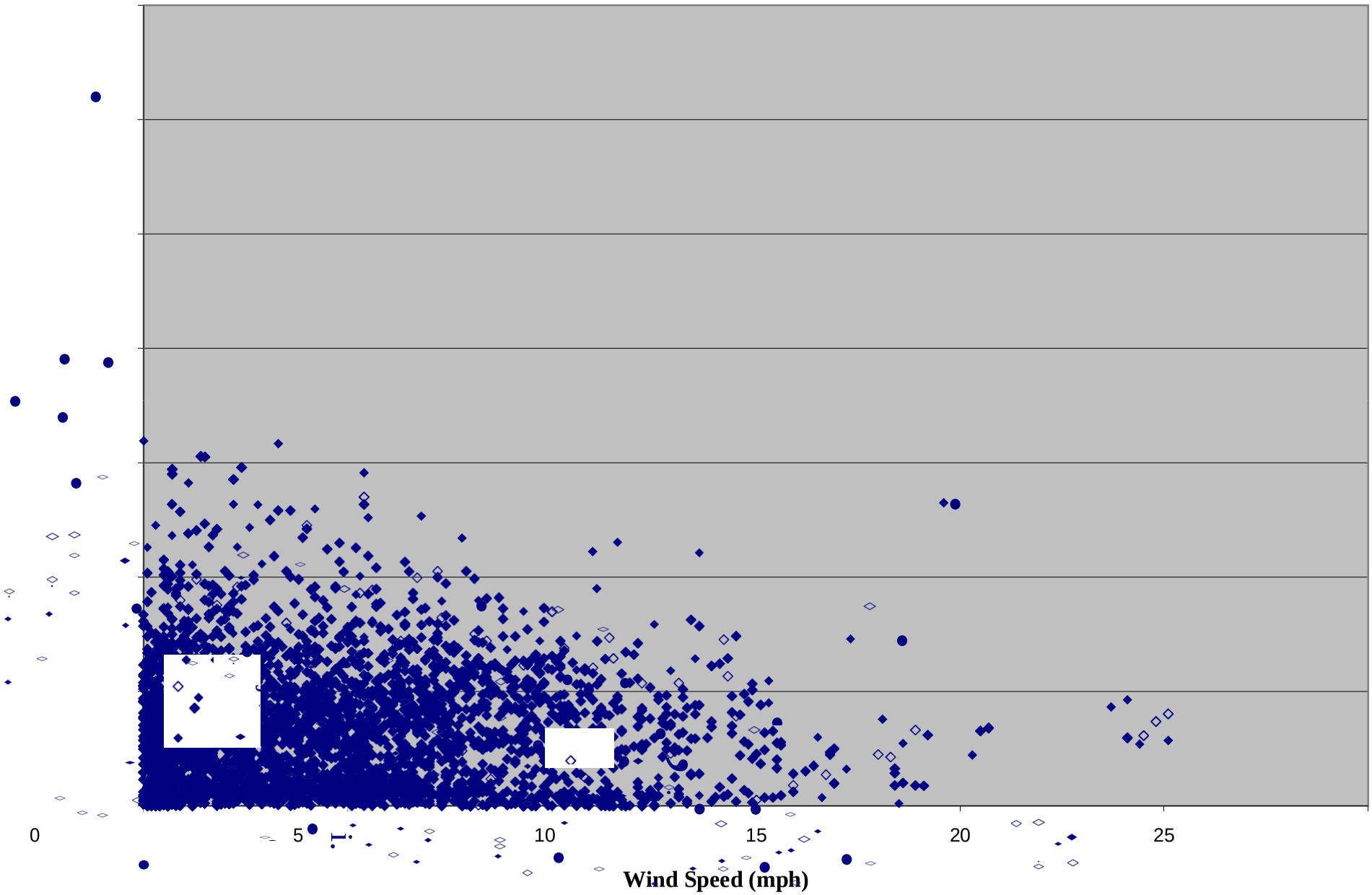


Atlantic CAFO: Ammonia vs Time (2003)

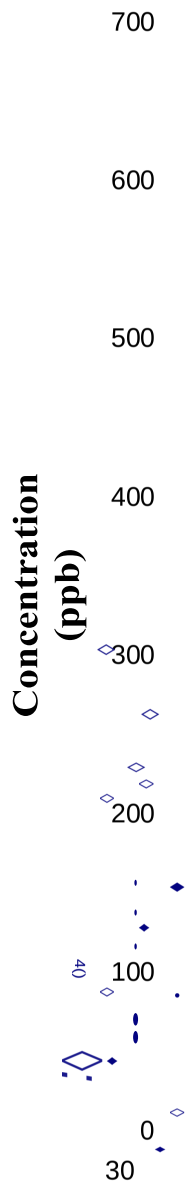


Atlantic CAFO: Hydrogen Sulfide vs Wind Speed (2003)

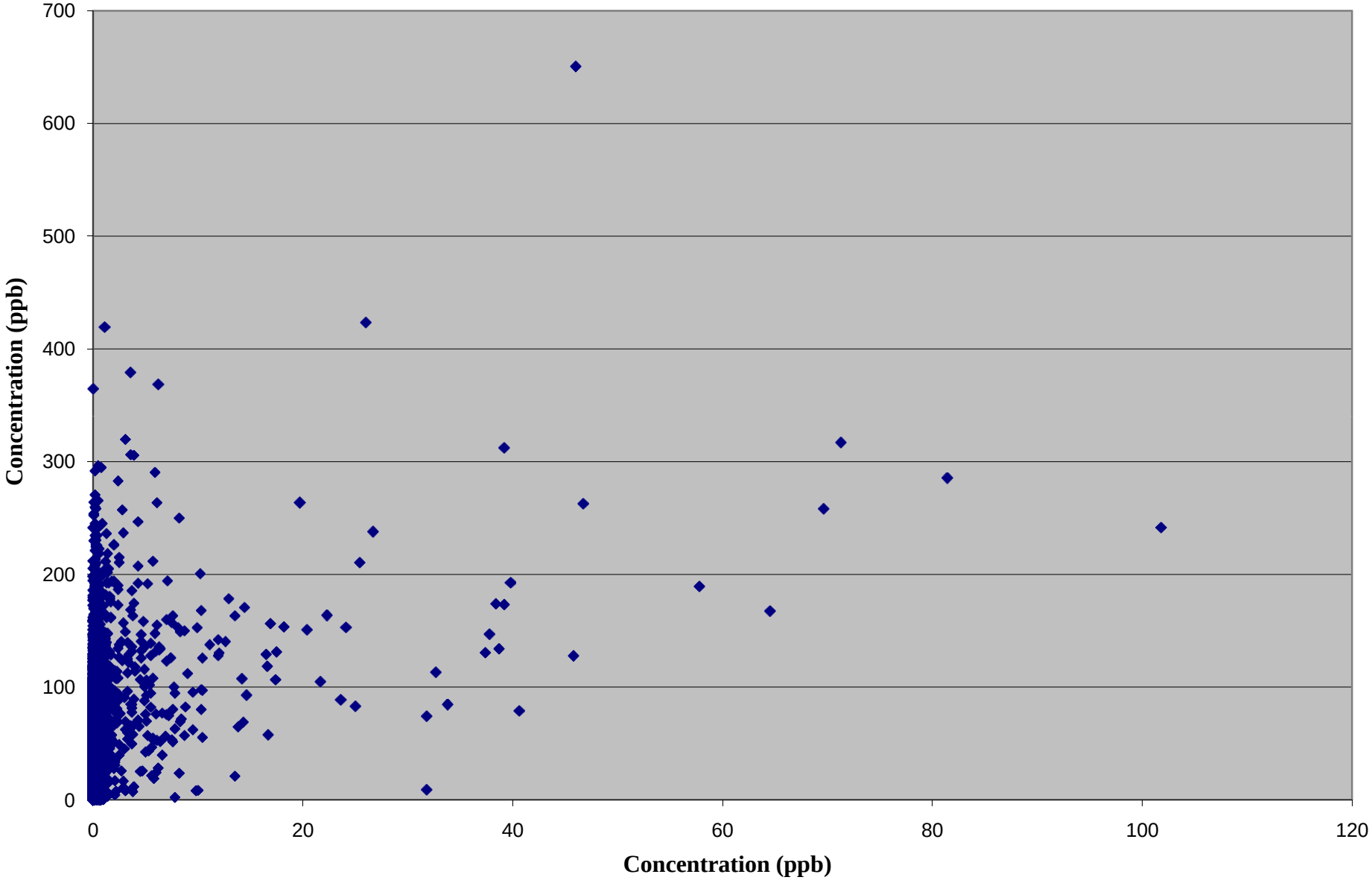



0
5
10
15
20
25
Wind Speed (mph)

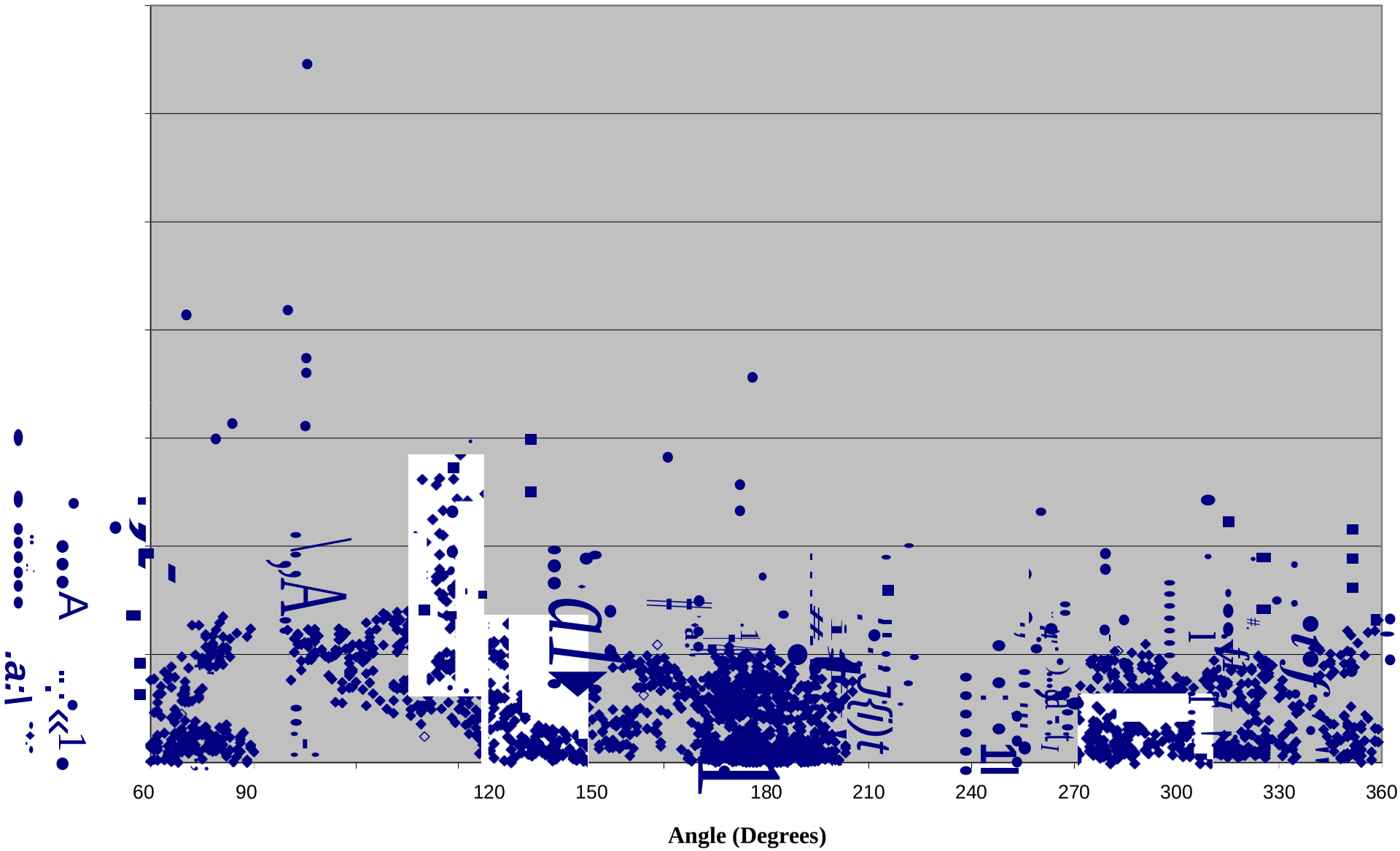
Atlantic CAFO: Ammonia vs Wind Speed (2003)



Atlantic CAFO: Ammonia vs Hydrogen Sulfide (2003)

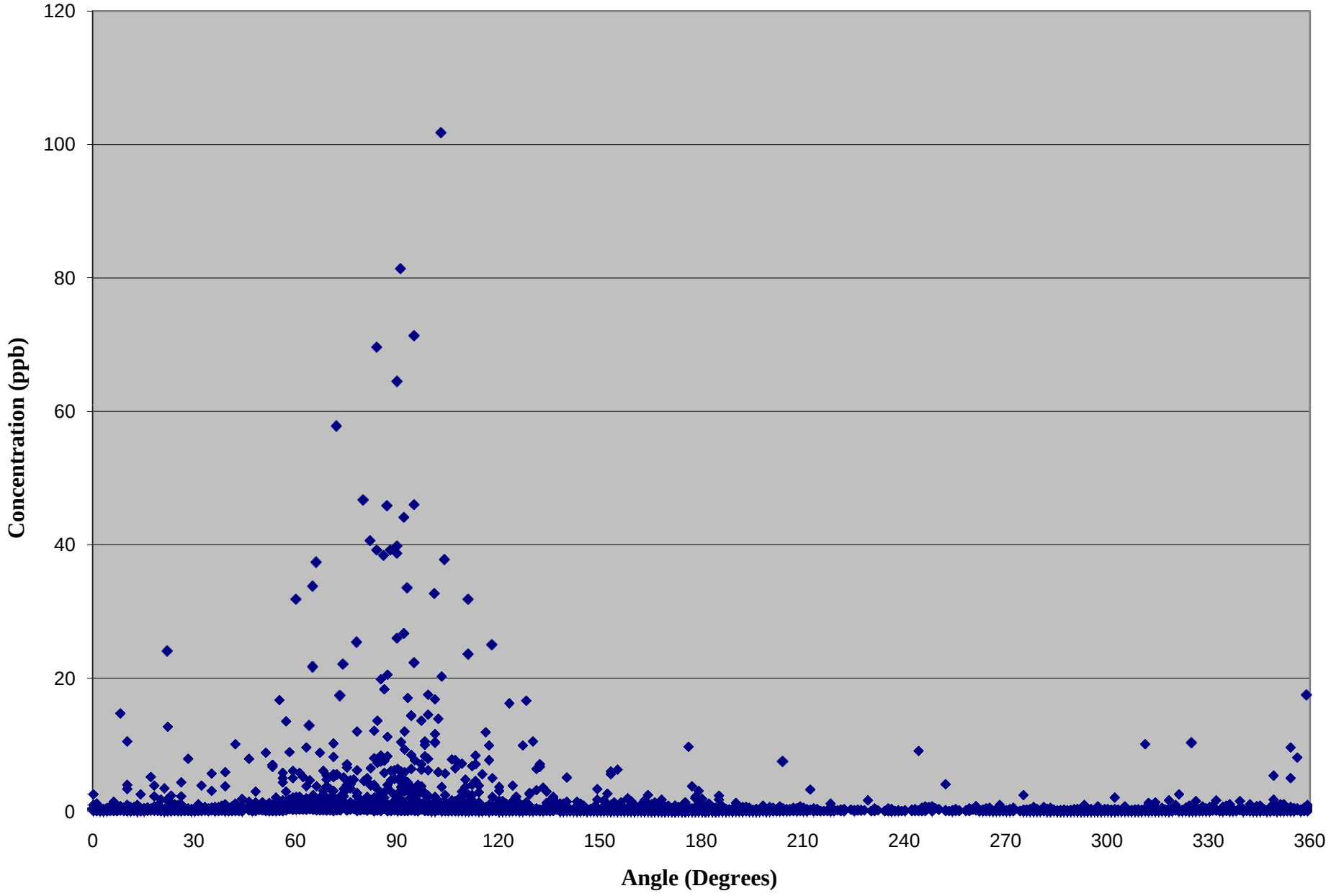


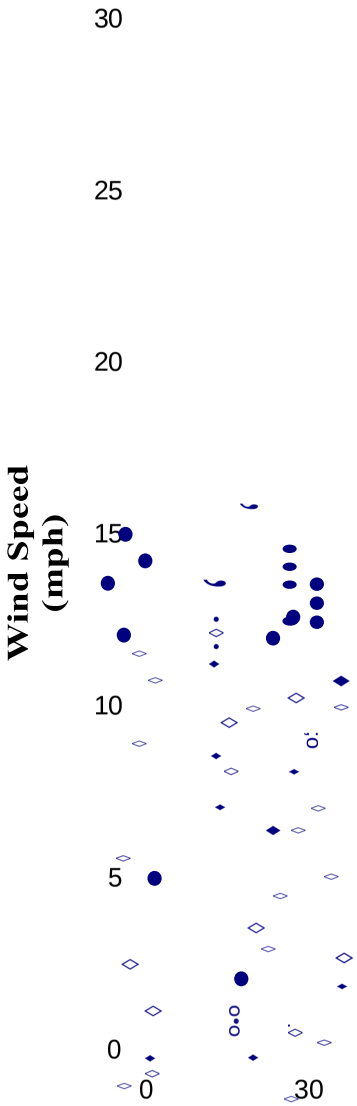
Atlantic CAFO: Ammonia vs Wind Direction (2003)



Concentration
(ppb)
700
600
500
400
300
200
100
0
30
0
0

Atlantic CAFO: Hydrogen Sulfide vs Wind Direction (2003)



Wind Direction (degrees)
60
90
120
150
180
210
240
270
300
330
360

Atlantic CAFO: Wind Speed vs Wind Direction (2003)