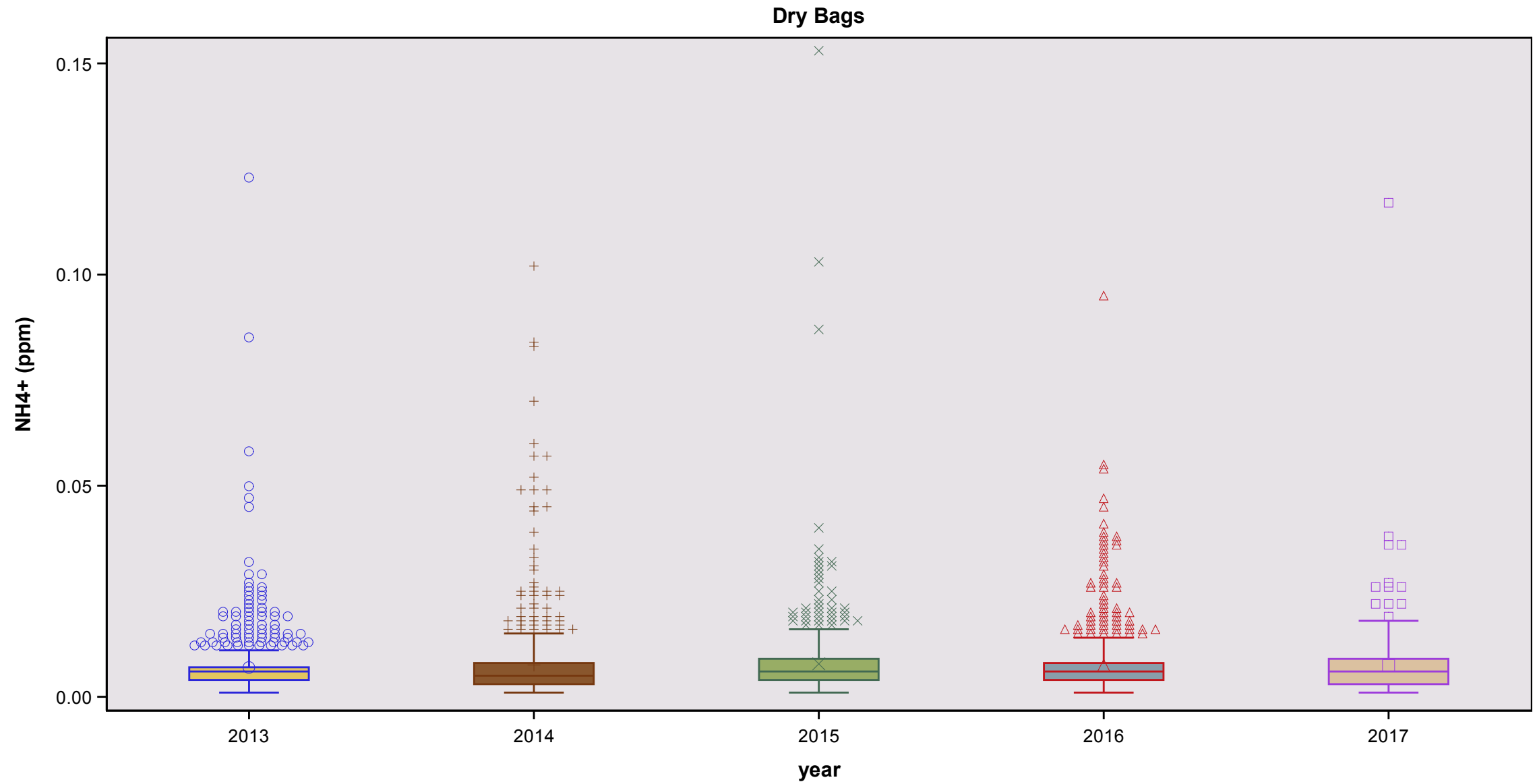


The Canadian Air and Precipitation Monitoring Network

Réseau canadien d'échantillonnage des précipitations et de l'air

CAPMoN Precip: Laboratory Database Report
Dry Bag Samples--All stations and all dry bag samples

19MAY2017



For use by CAPMoN staff only

**CAPMoN Precip: Laboratory Database Report
Dry Bag Samples--All stations and all dry bag samples**

*The UNIVARIATE Procedure
Variable: NH4 (NH4+ (ppm))*

year=2013

Moments			
N	702	Sum Weights	702
Mean	0.00698148	Sum Observations	4.90100003
Std Deviation	0.00766904	Variance	0.00005881
Skewness	7.88676038	Kurtosis	94.951269
Uncorrected SS	0.075445	Corrected SS	0.04122876
Coeff Variation	109.848349	Std Error Mean	0.00028945

Basic Statistical Measures			
Location		Variability	
Mean	0.006981	Std Deviation	0.00767
Median	0.006000	Variance	0.0000588
Mode	0.006000	Range	0.12200
		Interquartile Range	0.00300

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	24.11987	Pr > t	<.0001
Sign	M	351	Pr >= M	<.0001
Signed Rank	S	123376.5	Pr >= S	<.0001

**CAPMoN Precip: Laboratory Database Report
Dry Bag Samples--All stations and all dry bag samples**

*The UNIVARIATE Procedure
Variable: NH4 (NH4+ (ppm))*

year=2013

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.123
99%	0.029
95%	0.017
90%	0.012
75% Q3	0.007
50% Median	0.006
25% Q1	0.004
10%	0.002
5%	0.002
1%	0.001
0% Min	0.001

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.001	682	0.047	461
0.001	679	0.050	506
0.001	648	0.058	505
0.001	634	0.085	336
0.001	588	0.123	501

CAPMoN Precip: Laboratory Database Report
Dry Bag Samples--All stations and all dry bag samples

The UNIVARIATE Procedure
Variable: NH4 (NH4+ (ppm))

year=2014

Moments			
N	679	Sum Weights	679
Mean	0.00754639	Sum Observations	5.12400004
Std Deviation	0.00943979	Variance	0.00008911
Skewness	5.19395558	Kurtosis	35.0959726
Uncorrected SS	0.099084	Corrected SS	0.06041629
Coeff Variation	125.090066	Std Error Mean	0.00036227

Basic Statistical Measures			
Location		Variability	
Mean	0.007546	Std Deviation	0.00944
Median	0.005000	Variance	0.0000891
Mode	0.003000	Range	0.10100
		Interquartile Range	0.00500

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	20.83109	Pr > t	<.0001
Sign	M	339.5	Pr >= M	<.0001
Signed Rank	S	115430	Pr >= S	<.0001

CAPMoN Precip: Laboratory Database Report
Dry Bag Samples--All stations and all dry bag samples

The UNIVARIATE Procedure
Variable: NH4 (NH4+ (ppm))

year=2014

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.102
99%	0.057
95%	0.019
90%	0.013
75% Q3	0.008
50% Median	0.005
25% Q1	0.003
10%	0.002
5%	0.002
1%	0.001
0% Min	0.001

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.001	1332	0.060	821
0.001	1280	0.070	904
0.001	1210	0.083	1177
0.001	1129	0.084	1175
0.001	1075	0.102	1173

CAPMoN Precip: Laboratory Database Report
Dry Bag Samples--All stations and all dry bag samples

19MAY2017

The UNIVARIATE Procedure
Variable: NH4 (NH4+ (ppm))

year=2014

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.15	100.00

CAPMoN Precip: Laboratory Database Report
Dry Bag Samples--All stations and all dry bag samples

The UNIVARIATE Procedure
Variable: NH4 (NH4+ (ppm))

year=2015

Moments			
N	749	Sum Weights	749
Mean	0.00780641	Sum Observations	5.84700003
Std Deviation	0.00870728	Variance	0.00007582
Skewness	9.38445338	Kurtosis	130.838815
Uncorrected SS	0.102355	Corrected SS	0.05671093
Coeff Variation	111.540169	Std Error Mean	0.00031816

Basic Statistical Measures			
Location		Variability	
Mean	0.007806	Std Deviation	0.00871
Median	0.006000	Variance	0.0000758
Mode	0.006000	Range	0.15200
		Interquartile Range	0.00500

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	24.53633	Pr > t	<.0001
Sign	M	374.5	Pr >= M	<.0001
Signed Rank	S	140437.5	Pr >= S	<.0001

CAPMoN Precip: Laboratory Database Report
Dry Bag Samples--All stations and all dry bag samples

The UNIVARIATE Procedure
Variable: NH4 (NH4+ (ppm))

year=2015

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.153
99%	0.032
95%	0.018
90%	0.014
75% Q3	0.009
50% Median	0.006
25% Q1	0.004
10%	0.002
5%	0.002
1%	0.001
0% Min	0.001

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.001	2134	0.035	1871
0.001	2095	0.040	1874
0.001	2093	0.087	1915
0.001	2048	0.103	1875
0.001	1988	0.153	1473

CAPMoN Precip: Laboratory Database Report
Dry Bag Samples--All stations and all dry bag samples

19MAY2017

The UNIVARIATE Procedure
Variable: NH4 (NH4+ (ppm))

year=2015

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	4	0.53	100.00

CAPMoN Precip: Laboratory Database Report
Dry Bag Samples--All stations and all dry bag samples

The UNIVARIATE Procedure
Variable: NH4 (NH4+ (ppm))

year=2016

Moments			
N	757	Sum Weights	757
Mean	0.00744518	Sum Observations	5.63600003
Std Deviation	0.00733324	Variance	0.00005378
Skewness	4.6676211	Kurtosis	35.7035749
Uncorrected SS	0.082616	Corrected SS	0.04065497
Coeff Variation	98.4965102	Std Error Mean	0.00026653

Basic Statistical Measures			
Location		Variability	
Mean	0.007445	Std Deviation	0.00733
Median	0.006000	Variance	0.0000538
Mode	0.003000	Range	0.09400
		Interquartile Range	0.00400

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	27.93361	Pr > t	<.0001
Sign	M	378.5	Pr >= M	<.0001
Signed Rank	S	143451.5	Pr >= S	<.0001

CAPMoN Precip: Laboratory Database Report
Dry Bag Samples--All stations and all dry bag samples

The UNIVARIATE Procedure
Variable: NH4 (NH4+ (ppm))

year=2016

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.095
99%	0.038
95%	0.019
90%	0.013
75% Q3	0.008
50% Median	0.006
25% Q1	0.004
10%	0.002
5%	0.002
1%	0.001
0% Min	0.001

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.001	2884	0.045	2314
0.001	2837	0.047	2645
0.001	2821	0.054	2634
0.001	2809	0.055	2676
0.001	2782	0.095	2870

CAPMoN Precip: Laboratory Database Report
Dry Bag Samples--All stations and all dry bag samples

19MAY2017

The UNIVARIATE Procedure
Variable: NH4 (NH4+ (ppm))

year=2016

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	2	0.26	100.00

**CAPMoN Precip: Laboratory Database Report
Dry Bag Samples--All stations and all dry bag samples**

*The UNIVARIATE Procedure
Variable: NH4 (NH4+ (ppm))*

year=2017

Moments			
N	250	Sum Weights	250
Mean	0.007376	Sum Observations	1.84400001
Std Deviation	0.00914424	Variance	0.00008362
Skewness	7.56492735	Kurtosis	83.7308305
Uncorrected SS	0.034422	Corrected SS	0.02082066
Coeff Variation	123.972859	Std Error Mean	0.00057833

Basic Statistical Measures			
Location		Variability	
Mean	0.007376	Std Deviation	0.00914
Median	0.006000	Variance	0.0000836
Mode	0.004000	Range	0.11600
		Interquartile Range	0.00600

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	12.75391	Pr > t	<.0001
Sign	M	125	Pr >= M	<.0001
Signed Rank	S	15687.5	Pr >= S	<.0001

**CAPMoN Precip: Laboratory Database Report
Dry Bag Samples--All stations and all dry bag samples**

*The UNIVARIATE Procedure
Variable: NH4 (NH4+ (ppm))*

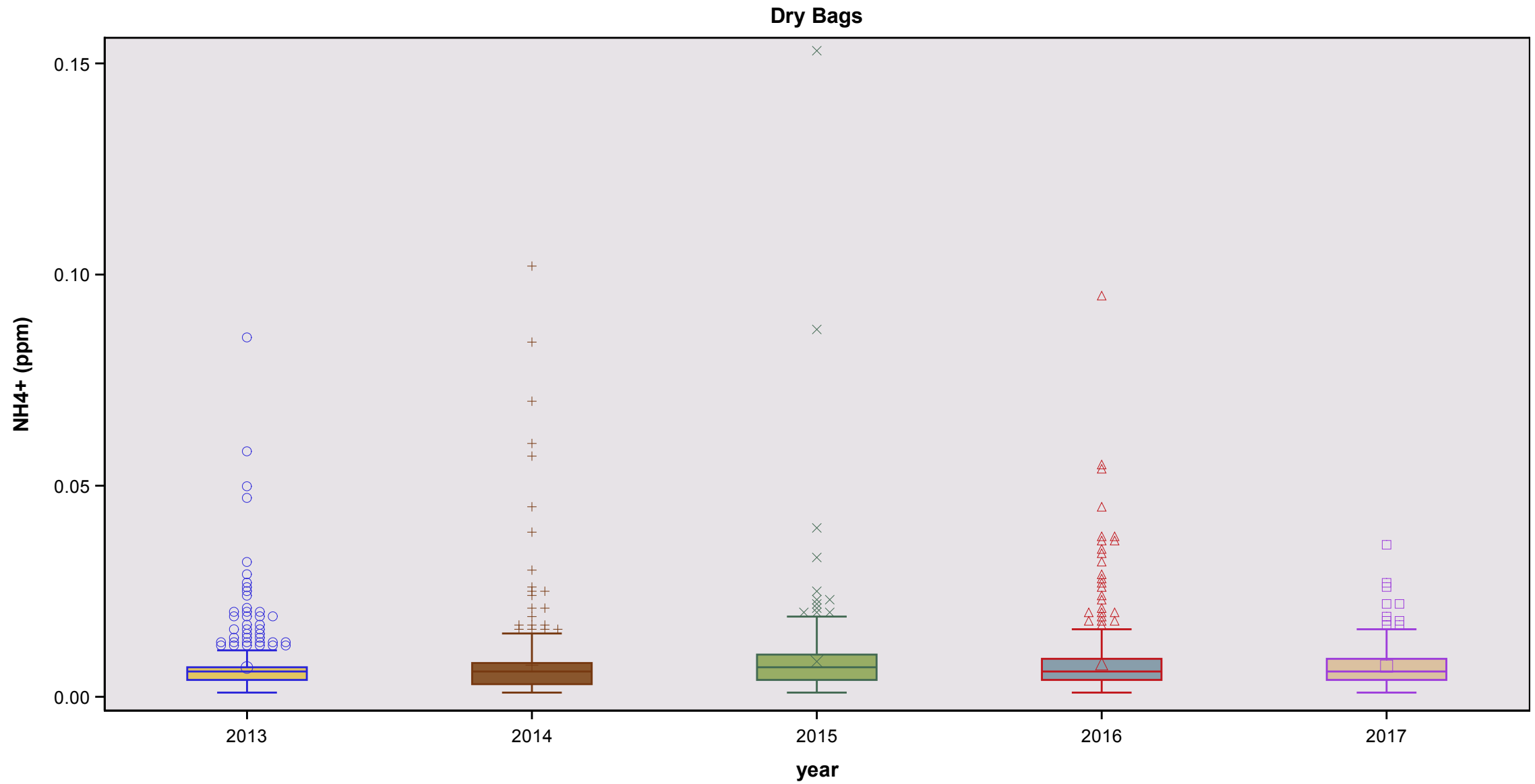
year=2017

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.117
99%	0.036
95%	0.018
90%	0.014
75% Q3	0.009
50% Median	0.006
25% Q1	0.003
10%	0.001
5%	0.001
1%	0.001
0% Min	0.001

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.001	3144	0.027	3127
0.001	3135	0.036	2923
0.001	3134	0.036	3052
0.001	3133	0.038	3053
0.001	3132	0.117	3038

CAPMoN Precip: Laboratory Database Report
Dry Bag Samples--All stations using only the first dry bag in each month

19MAY2017



For use by CAPMoN staff only

CAPMoN Precip: Laboratory Database Report
Dry Bag Samples--All stations using only the first dry bag in each month

The UNIVARIATE Procedure
Variable: NH4 (NH4+ (ppm))

year=2013

Moments			
N	346	Sum Weights	346
Mean	0.0070578	Sum Observations	2.44200002
Std Deviation	0.00752596	Variance	0.00005664
Skewness	5.56624932	Kurtosis	43.8611872
Uncorrected SS	0.036776	Corrected SS	0.01954084
Coeff Variation	106.633226	Std Error Mean	0.0004046

Basic Statistical Measures			
Location		Variability	
Mean	0.007058	Std Deviation	0.00753
Median	0.006000	Variance	0.0000566
Mode	0.005000	Range	0.08400
		Interquartile Range	0.00300

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	17.44398	Pr > t	<.0001
Sign	M	173	Pr >= M	<.0001
Signed Rank	S	30015.5	Pr >= S	<.0001

CAPMoN Precip: Laboratory Database Report
Dry Bag Samples--All stations using only the first dry bag in each month

The UNIVARIATE Procedure
Variable: NH4 (NH4+ (ppm))

year=2013

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.085
99%	0.047
95%	0.019
90%	0.012
75% Q3	0.007
50% Median	0.006
25% Q1	0.004
10%	0.002
5%	0.002
1%	0.001
0% Min	0.001

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.001	336	0.032	255
0.001	322	0.047	231
0.001	291	0.050	252
0.001	234	0.058	251
0.001	203	0.085	170

CAPMoN Precip: Laboratory Database Report
Dry Bag Samples--All stations using only the first dry bag in each month

The UNIVARIATE Procedure
Variable: NH4 (NH4+ (ppm))

year=2014

Moments			
N	335	Sum Weights	335
Mean	0.00747164	Sum Observations	2.50300002
Std Deviation	0.00995732	Variance	0.00009915
Skewness	5.86141814	Kurtosis	42.5252535
Uncorrected SS	0.051817	Corrected SS	0.03311548
Coeff Variation	133.268113	Std Error Mean	0.00054403

Basic Statistical Measures			
Location		Variability	
Mean	0.007472	Std Deviation	0.00996
Median	0.006000	Variance	0.0000991
Mode	0.003000	Range	0.10100
		Interquartile Range	0.00500

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	13.73397	Pr > t	<.0001
Sign	M	167.5	Pr >= M	<.0001
Signed Rank	S	28140	Pr >= S	<.0001

CAPMoN Precip: Laboratory Database Report
Dry Bag Samples--All stations using only the first dry bag in each month

The UNIVARIATE Procedure
Variable: NH4 (NH4+ (ppm))

year=2014

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.102
99%	0.060
95%	0.017
90%	0.013
75% Q3	0.008
50% Median	0.006
25% Q1	0.003
10%	0.002
5%	0.002
1%	0.001
0% Min	0.001

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.001	632	0.057	577
0.001	536	0.060	412
0.001	533	0.070	451
0.001	477	0.084	582
0.001	472	0.102	581

CAPMoN Precip: Laboratory Database Report
Dry Bag Samples--All stations using only the first dry bag in each month

The UNIVARIATE Procedure
Variable: NH4 (NH4+ (ppm))

year=2015

Moments			
N	363	Sum Weights	363
Mean	0.00835813	Sum Observations	3.03400001
Std Deviation	0.01002255	Variance	0.00010045
Skewness	9.87579706	Kurtosis	129.983096
Uncorrected SS	0.061722	Corrected SS	0.03636344
Coeff Variation	119.913825	Std Error Mean	0.00052605

Basic Statistical Measures			
Location		Variability	
Mean	0.008358	Std Deviation	0.01002
Median	0.007000	Variance	0.0001005
Mode	0.004000	Range	0.15200
		Interquartile Range	0.00600

Note: The mode displayed is the smallest of 2 modes with a count of 31.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	15.88854	Pr > t	<.0001
Sign	M	181.5	Pr >= M	<.0001
Signed Rank	S	33033	Pr >= S	<.0001

CAPMoN Precip: Laboratory Database Report
Dry Bag Samples--All stations using only the first dry bag in each month

The UNIVARIATE Procedure
Variable: NH4 (NH4+ (ppm))

year=2015

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.153
99%	0.033
95%	0.018
90%	0.015
75% Q3	0.010
50% Median	0.007
25% Q1	0.004
10%	0.003
5%	0.002
1%	0.001
0% Min	0.001

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.001	1047	0.025	924
0.001	981	0.033	787
0.001	940	0.040	927
0.001	915	0.087	947
0.001	830	0.153	728

CAPMoN Precip: Laboratory Database Report
Dry Bag Samples--All stations using only the first dry bag in each month

19MAY2017

The UNIVARIATE Procedure
Variable: NH4 (NH4+ (ppm))

year=2015

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	0.82	100.00

CAPMoN Precip: Laboratory Database Report
Dry Bag Samples--All stations using only the first dry bag in each month

The UNIVARIATE Procedure
Variable: NH4 (NH4+ (ppm))

year=2016

Moments			
N	369	Sum Weights	369
Mean	0.00779404	Sum Observations	2.87600002
Std Deviation	0.00853801	Variance	0.0000729
Skewness	4.89762775	Kurtosis	35.8449751
Uncorrected SS	0.049242	Corrected SS	0.02682635
Coeff Variation	109.545449	Std Error Mean	0.00044447

Basic Statistical Measures			
Location		Variability	
Mean	0.007794	Std Deviation	0.00854
Median	0.006000	Variance	0.0000729
Mode	0.003000	Range	0.09400
		Interquartile Range	0.00500

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	17.53553	Pr > t	<.0001
Sign	M	184.5	Pr >= M	<.0001
Signed Rank	S	34132.5	Pr >= S	<.0001

CAPMoN Precip: Laboratory Database Report
Dry Bag Samples--All stations using only the first dry bag in each month

The UNIVARIATE Procedure
Variable: NH4 (NH4+ (ppm))

year=2016

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.095
99%	0.045
95%	0.020
90%	0.014
75% Q3	0.009
50% Median	0.006
25% Q1	0.004
10%	0.002
5%	0.002
1%	0.001
0% Min	0.001

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.001	1394	0.038	1291
0.001	1368	0.045	1141
0.001	1364	0.054	1296
0.001	1363	0.055	1317
0.001	1324	0.095	1405

CAPMoN Precip: Laboratory Database Report
Dry Bag Samples--All stations using only the first dry bag in each month

19MAY2017

The UNIVARIATE Procedure
Variable: NH4 (NH4+ (ppm))

year=2016

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.27	100.00

CAPMoN Precip: Laboratory Database Report
Dry Bag Samples--All stations using only the first dry bag in each month

The UNIVARIATE Procedure
Variable: NH4 (NH4+ (ppm))

year=2017

Moments			
N	124	Sum Weights	124
Mean	0.00726613	Sum Observations	0.901
Std Deviation	0.00582413	Variance	0.00003392
Skewness	2.01875597	Kurtosis	5.56237092
Uncorrected SS	0.010719	Corrected SS	0.00417222
Coeff Variation	80.1544828	Std Error Mean	0.00052302

Basic Statistical Measures			
Location		Variability	
Mean	0.007266	Std Deviation	0.00582
Median	0.006000	Variance	0.0000339
Mode	0.004000	Range	0.03500
		Interquartile Range	0.00500

Note: The mode displayed is the smallest of 2 modes with a count of 13.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	13.89258	Pr > t	<.0001
Sign	M	62	Pr >= M	<.0001
Signed Rank	S	3875	Pr >= S	<.0001

CAPMoN Precip: Laboratory Database Report
Dry Bag Samples--All stations using only the first dry bag in each month

The UNIVARIATE Procedure
Variable: NH4 (NH4+ (ppm))

year=2017

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.036
99%	0.027
95%	0.018
90%	0.015
75% Q3	0.009
50% Median	0.006
25% Q1	0.004
10%	0.002
5%	0.001
1%	0.001
0% Min	0.001

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.001	1536	0.022	1494
0.001	1518	0.022	1537
0.001	1510	0.026	1497
0.001	1481	0.027	1534
0.001	1473	0.036	1496