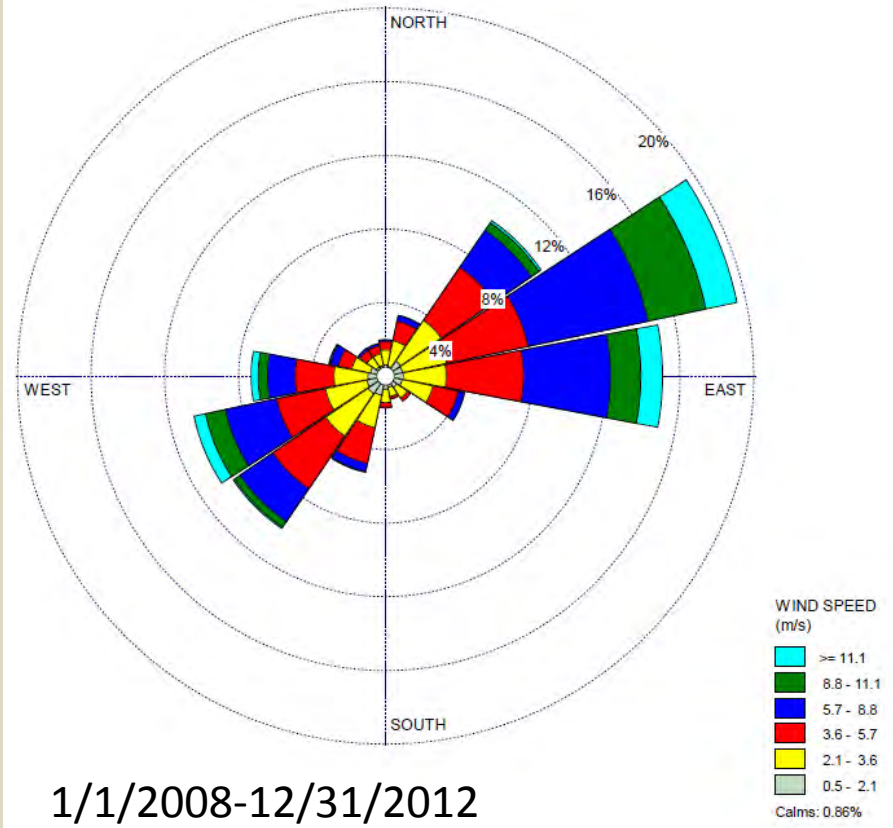


Monitoring Data

Data Summary

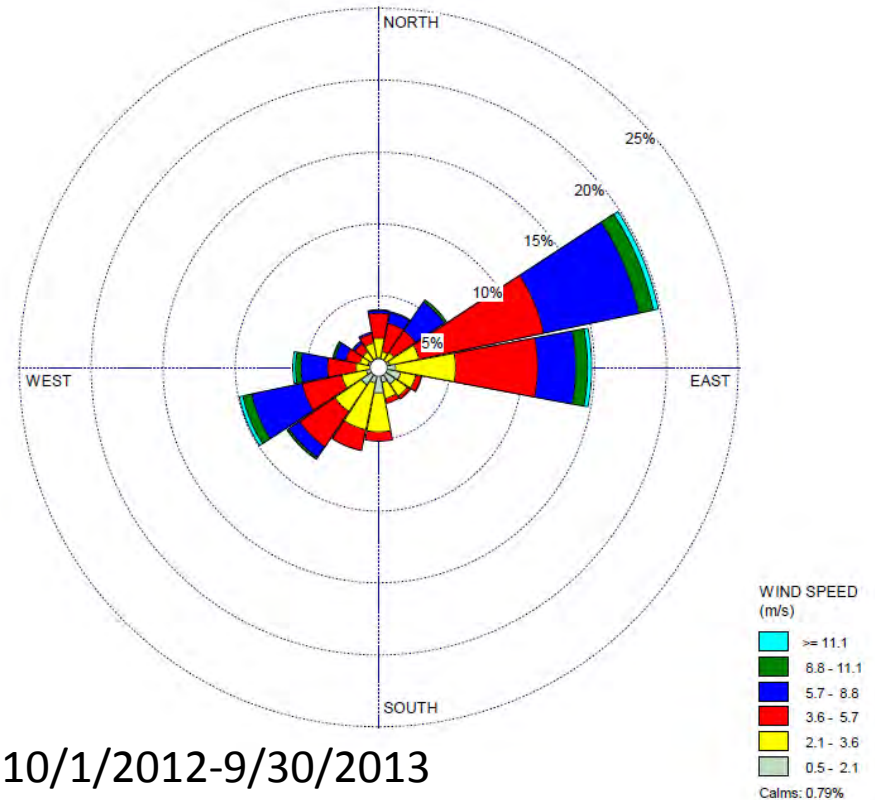
<u>Station</u>	<u>Data Status</u>	<u>Contributing Sources</u>	<u>No. of Years</u>
A-Pad	ADEC Review	Rig & nearby Title V sources	26
CD-1	ADEC Review	Rig & Title V sources	1
CD-3	ADEC Review	Rig dominated	0.25
Deadhorse	ADEC/EPA Review	Neighborhood scale – multiple Title V & minor source influence	4
DS-1F	ADEC Review	Rig & nearby Title V sources	4
Nuiqsut	ADEC Review for select years	Neighborhood /Regional scale-community minor sources and nearby Title V sources	14
Point Thompson	ADEC Review	Rig dominated	1.5
Wainwright (Near-Term)	EPA Review	Regional scale background	1
Wainwright (Permanent)	EPA Review	Regional scale background	4
Endicott (MPI)	ADEC Review	Title V source dominated, occasional Rig influence	1
Liberty	ADEC Review	Drill rig impacts	1
Tesoro	Meteorological Data Only	Regional	1

Aerial Photo A-Pad

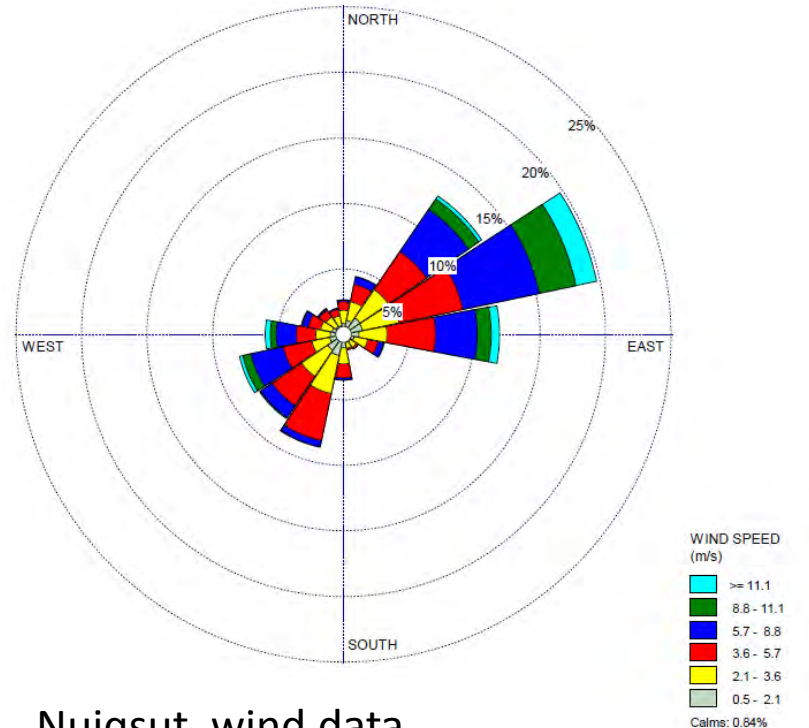


1/1/2008-12/31/2012

Aerial Photo CD-1

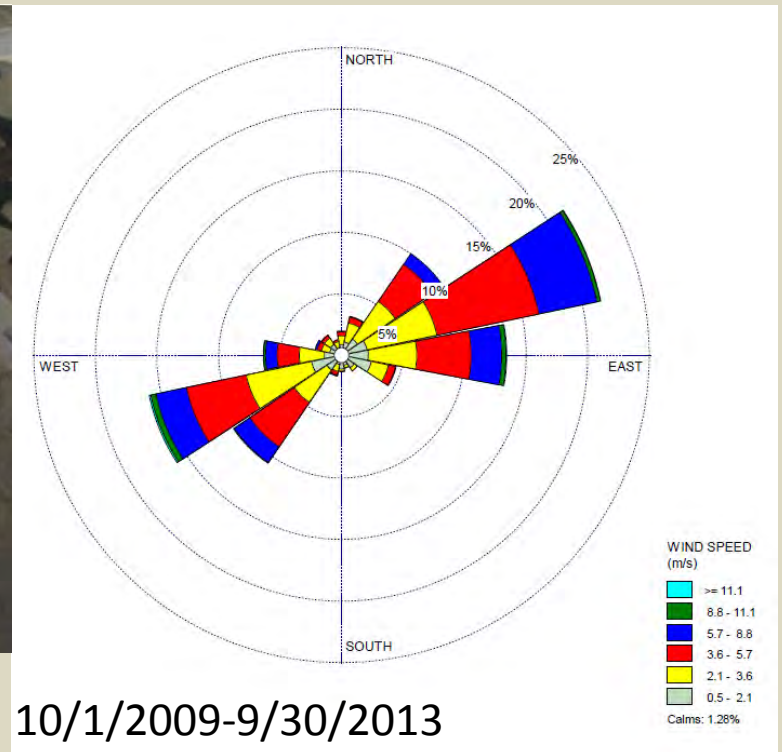


Aerial Photo CD-3

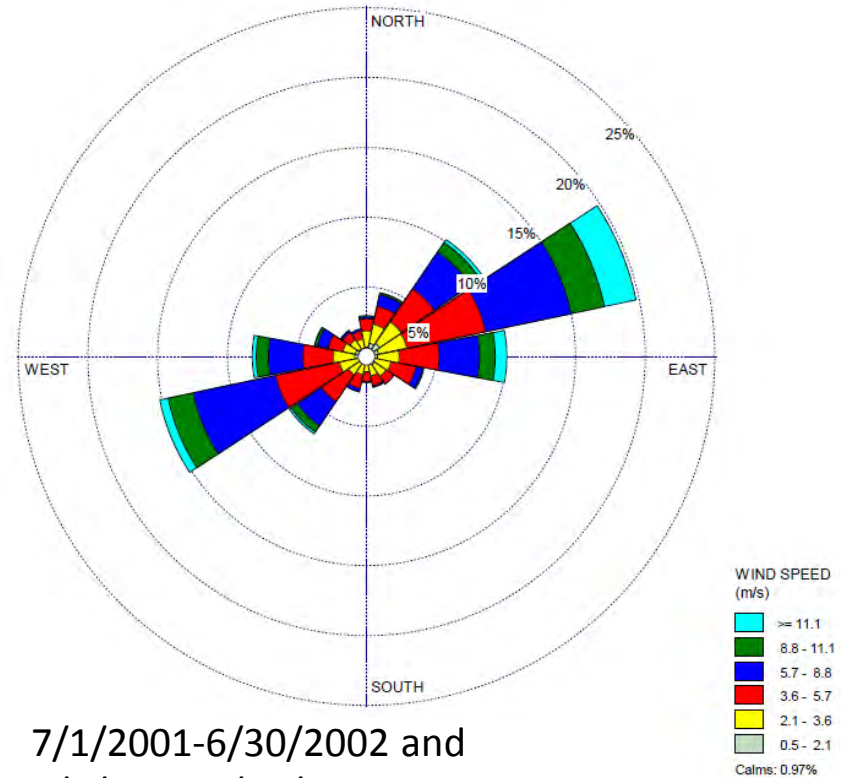


Nuiqsut wind data
1/1/2008-12/31/2012

Aerial Photo Deadhorse



Aerial Photo DS-1F



7/1/2001-6/30/2002 and
5/1/2012-4/30/2013

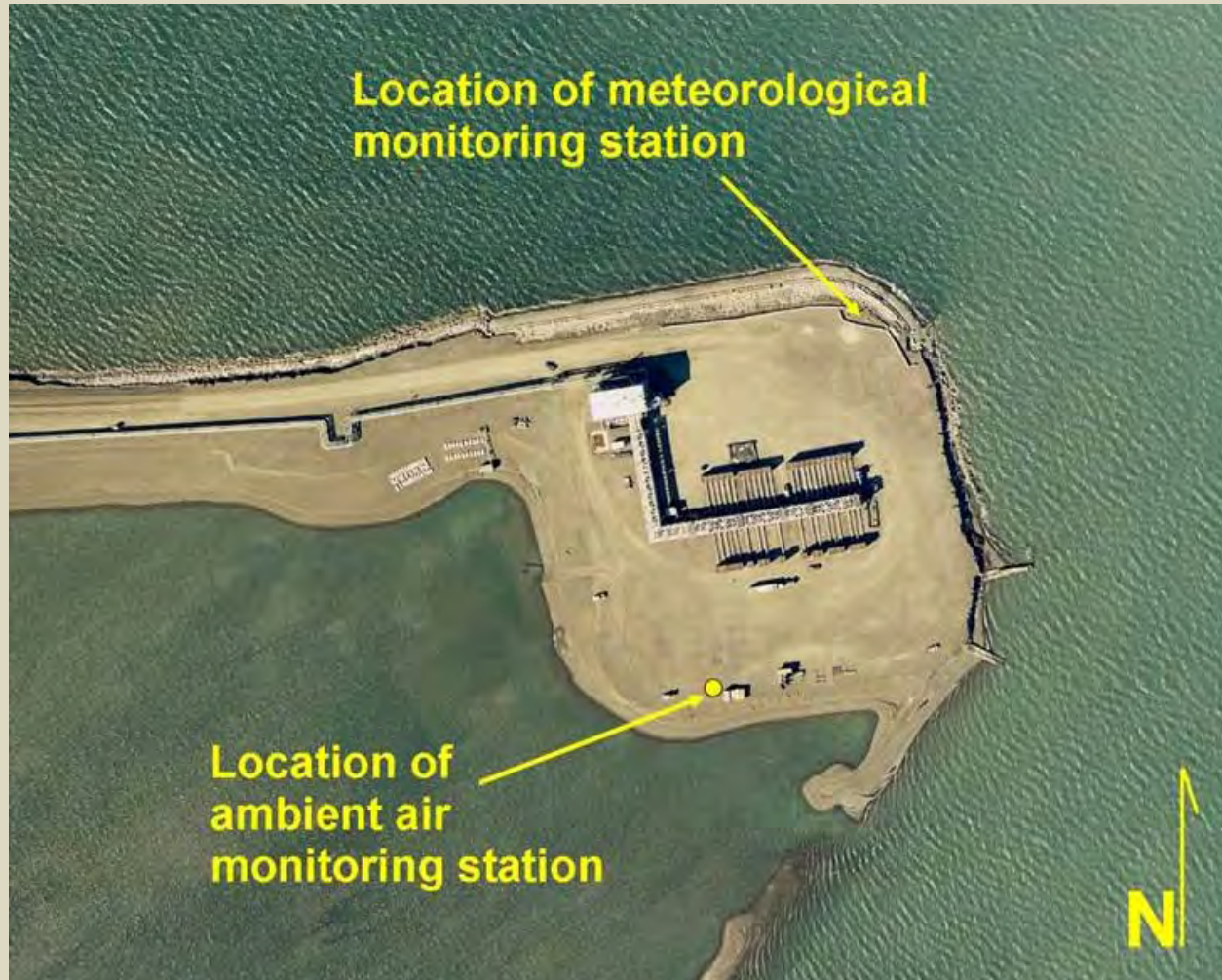
Monitoring and
Meteorological
Station Location

On grid power

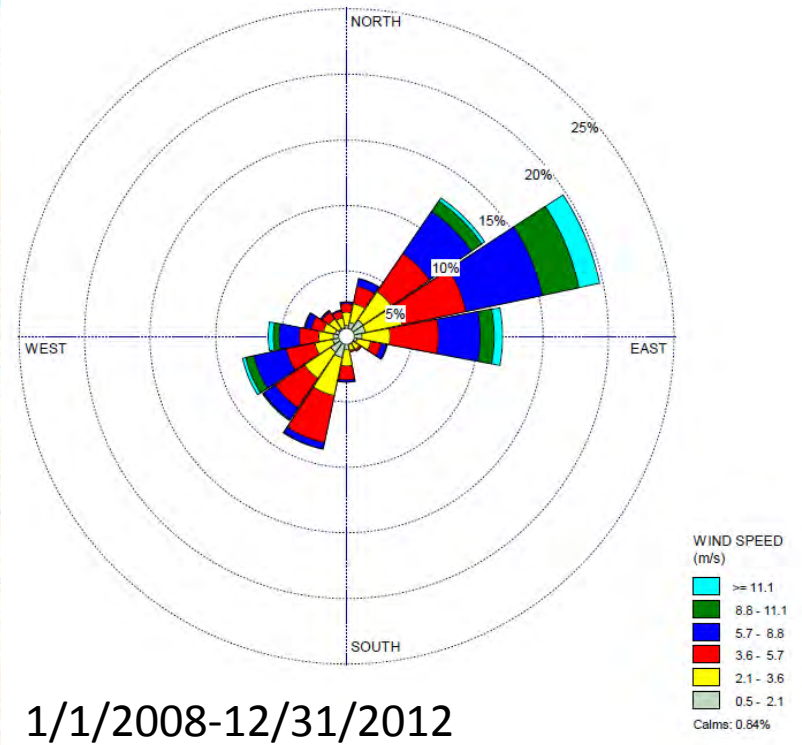
Aerial Photo Endicott (MPI)



Aerial Photo Liberty



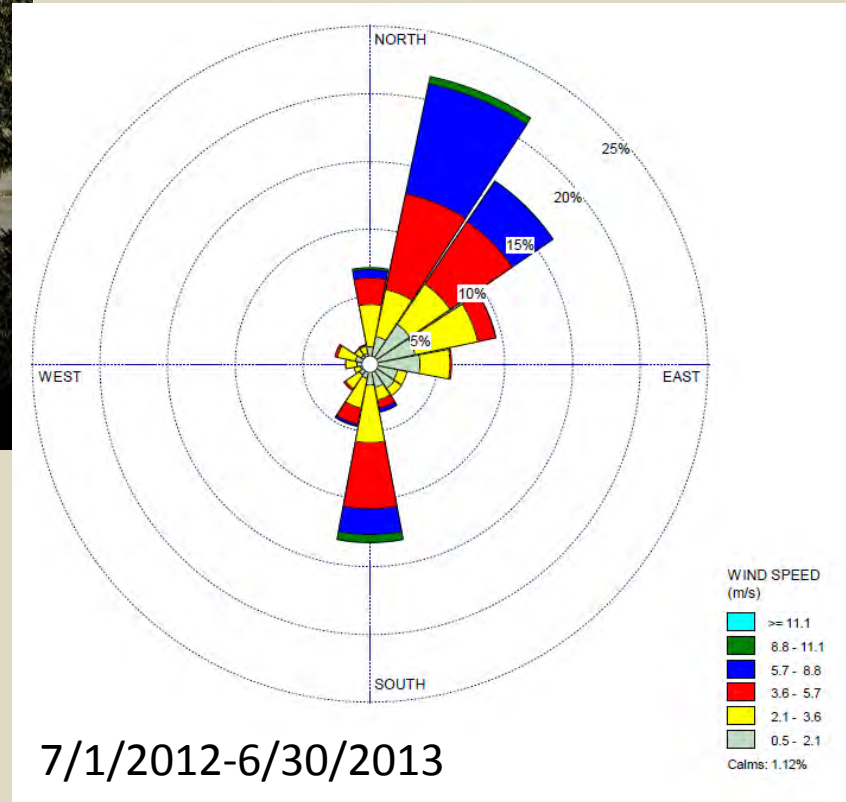
Aerial Photo Nuiqsut



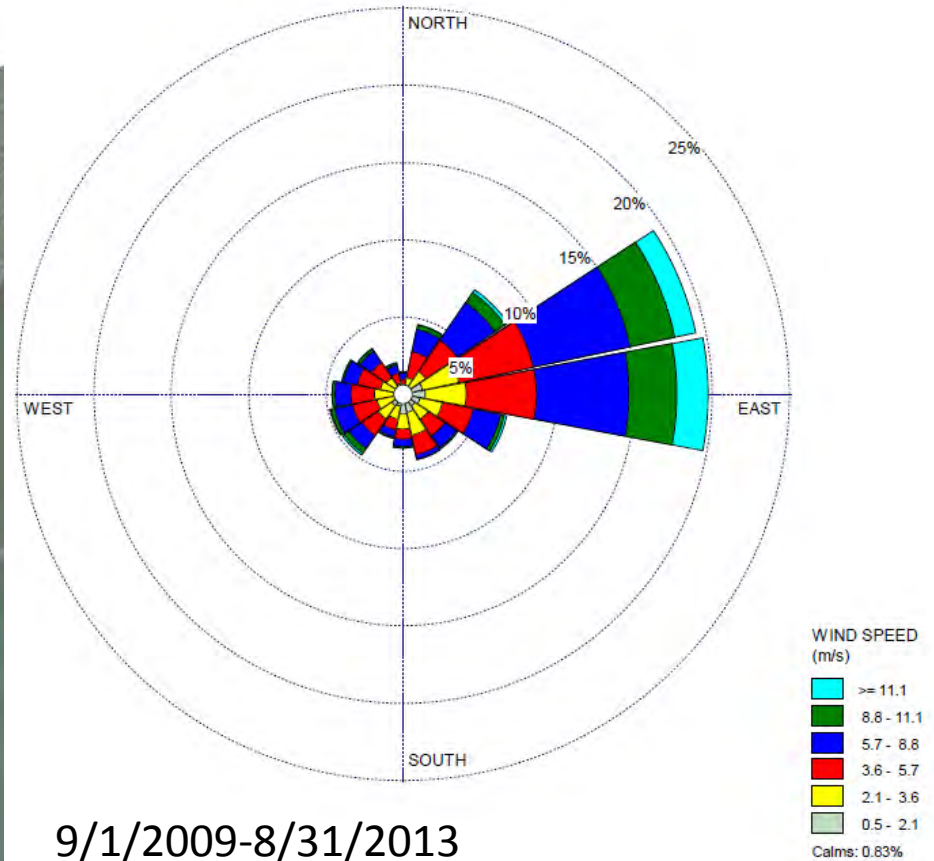
Aerial Photo Tesoro



Meteorological Station Location



Aerial Photo Wainwright (Permanent)

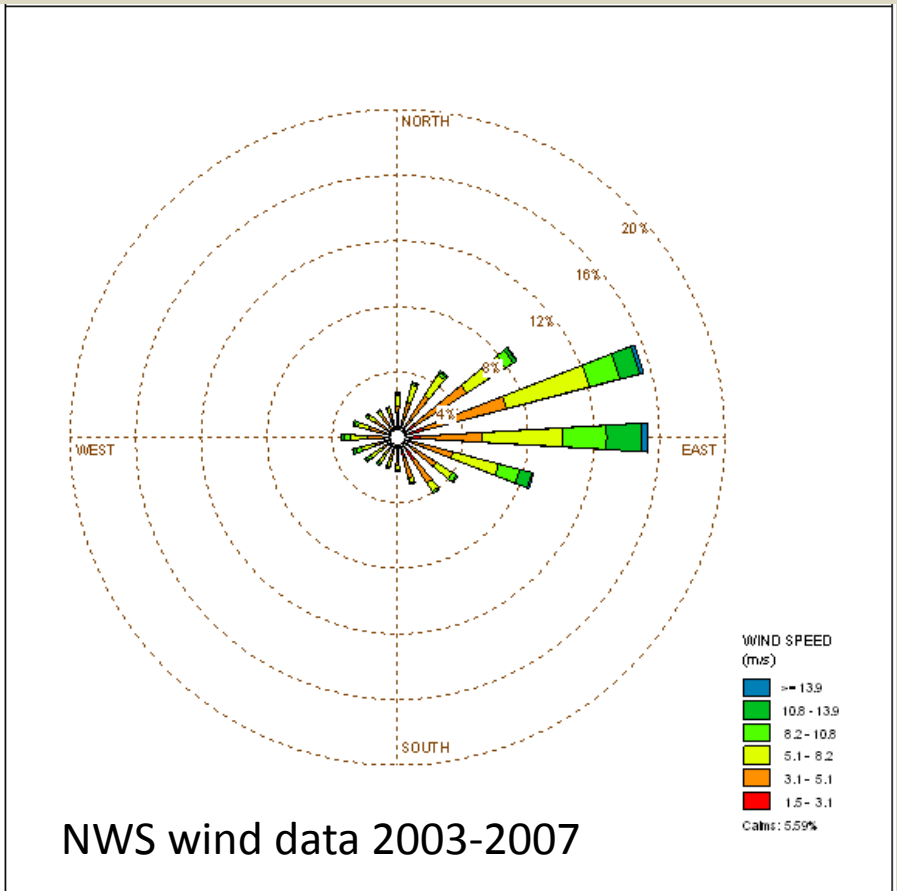


Aerial Photo Wainwright (Near-Term)



Monitoring Station Location

NWS Meteorological Station Location



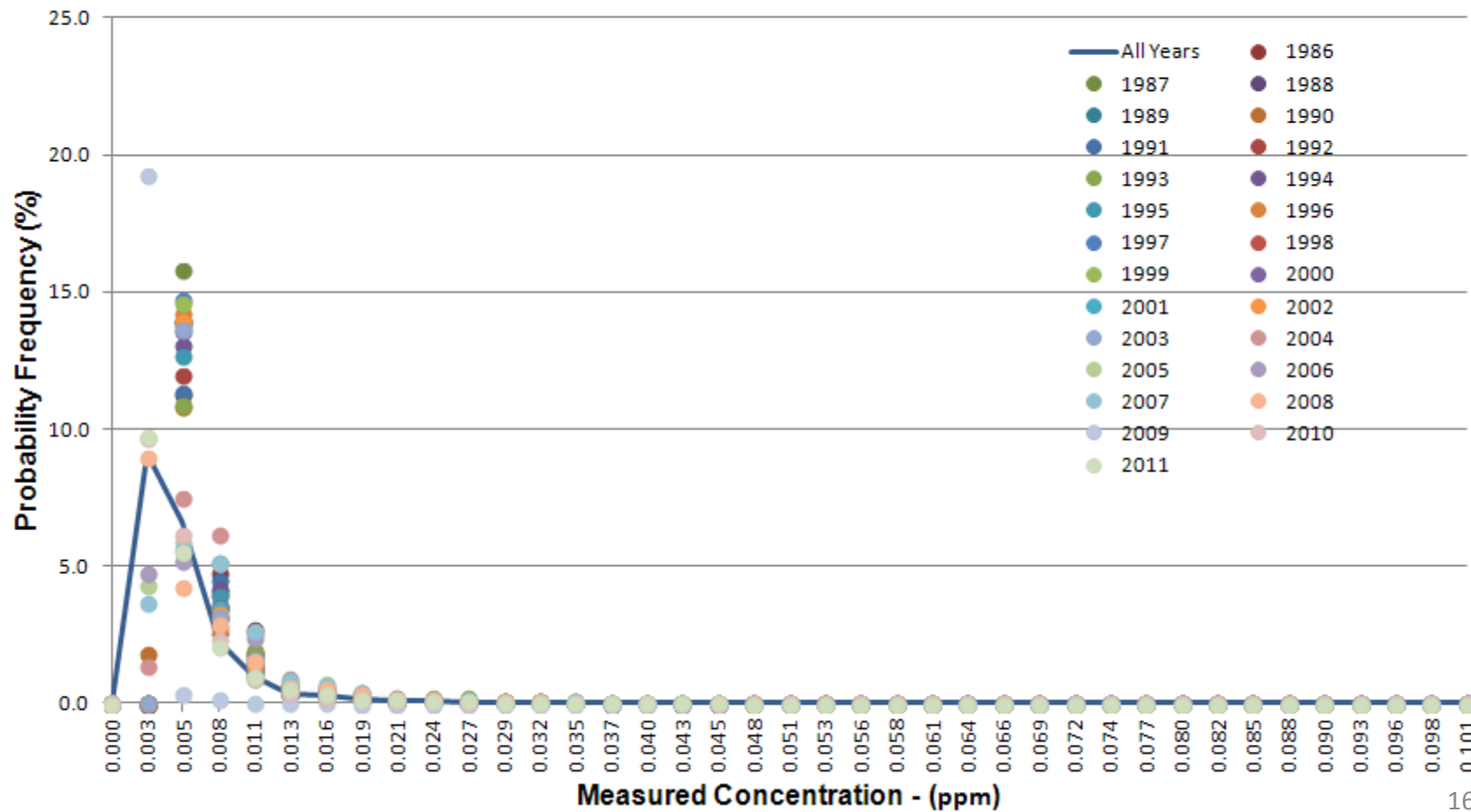
1-hour NO₂ Data by Station

A-Pad 98th Percentile

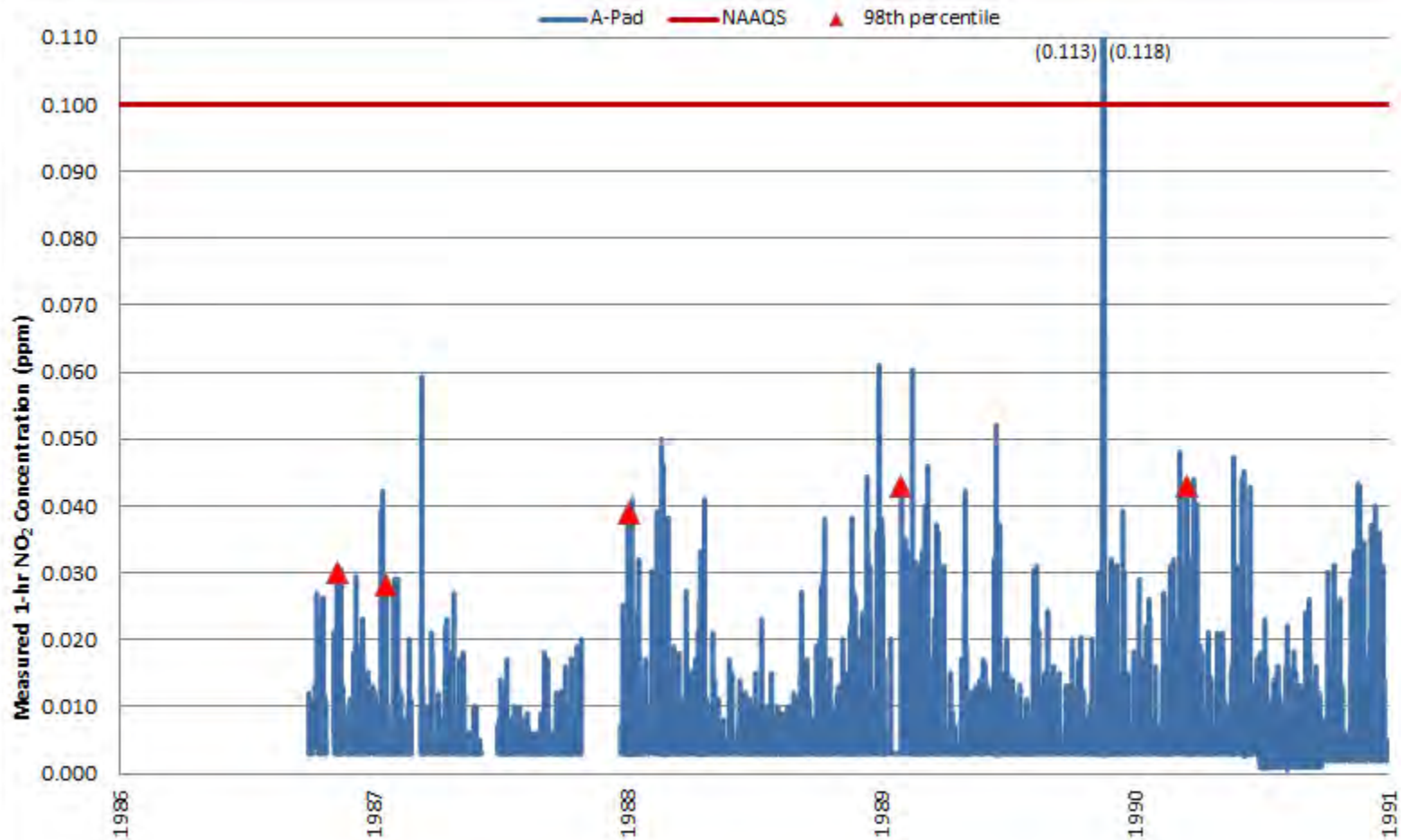
Year	Possible Values	Data Recovery (%)	Concentration Measured at the A-Pad Wellsite		
			(ppm)		
			Maximum	98th Percentile	3-year Average of the 98th Percentile
1986	2208	84	0.030	0.030	0.036
1987	8760	70	0.059	0.027	0.033
1988	8784	97	0.061	0.039	0.032
1989	8760	95	0.118	0.043	0.036
1990	8760	95	0.048	0.043	0.042
1991	8760	95	0.172	0.067	0.051
1992	8784	97	0.092	0.052	0.054
1993	8760	98	0.126	0.078	0.066
1994	8760	97	0.080	0.038	0.056
1995	8760	98	0.092	0.050	0.055
1996	8784	98	0.132	0.045	0.044
1997	8760	99	0.058	0.033	0.043
1998	8760	98	0.141	0.036	0.038
1999	8760	98	0.042	0.031	0.033
2000	8784	99	0.075	0.041	0.036
2001	8760	97	0.039	0.035	0.036
2002	8760	98	0.050	0.035	0.037
2003	8760	98	0.078	0.044	0.038
2004	8784	93	0.100	0.038	0.039
2005	8760	94	0.068	0.034	0.039
2006	8760	95	0.156	0.072	0.048
2007	8760	98	0.111	0.046	0.051
2008	8784	82	0.058	0.043	0.054
2009	8760	97	0.072	0.045	0.045
2010	8760	95	0.054	0.036	0.041
2011	8760	96	0.090	0.043	0.041

A-Pad

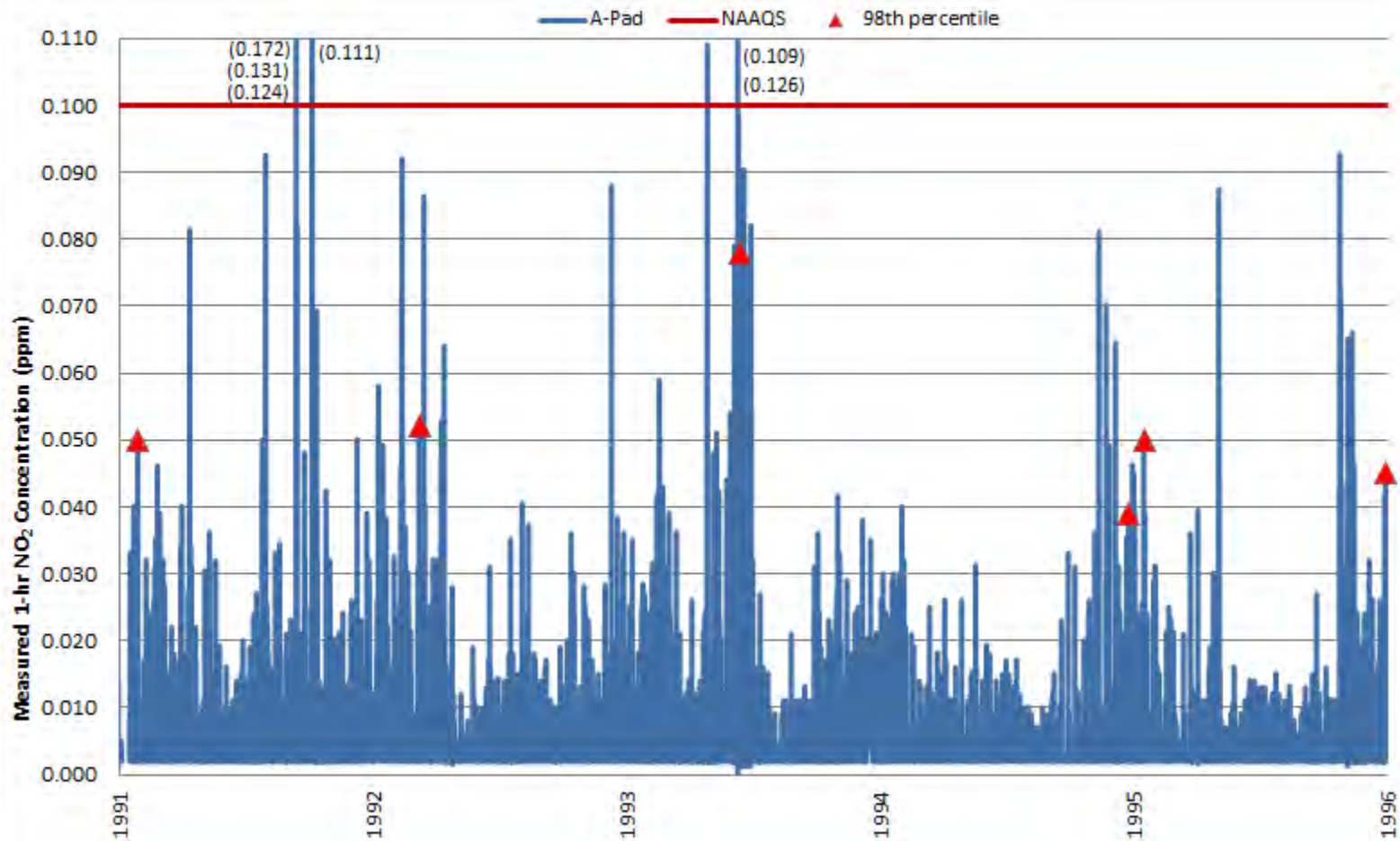
Probability Frequency Distribution of NO₂ Measurements at the Wellsite



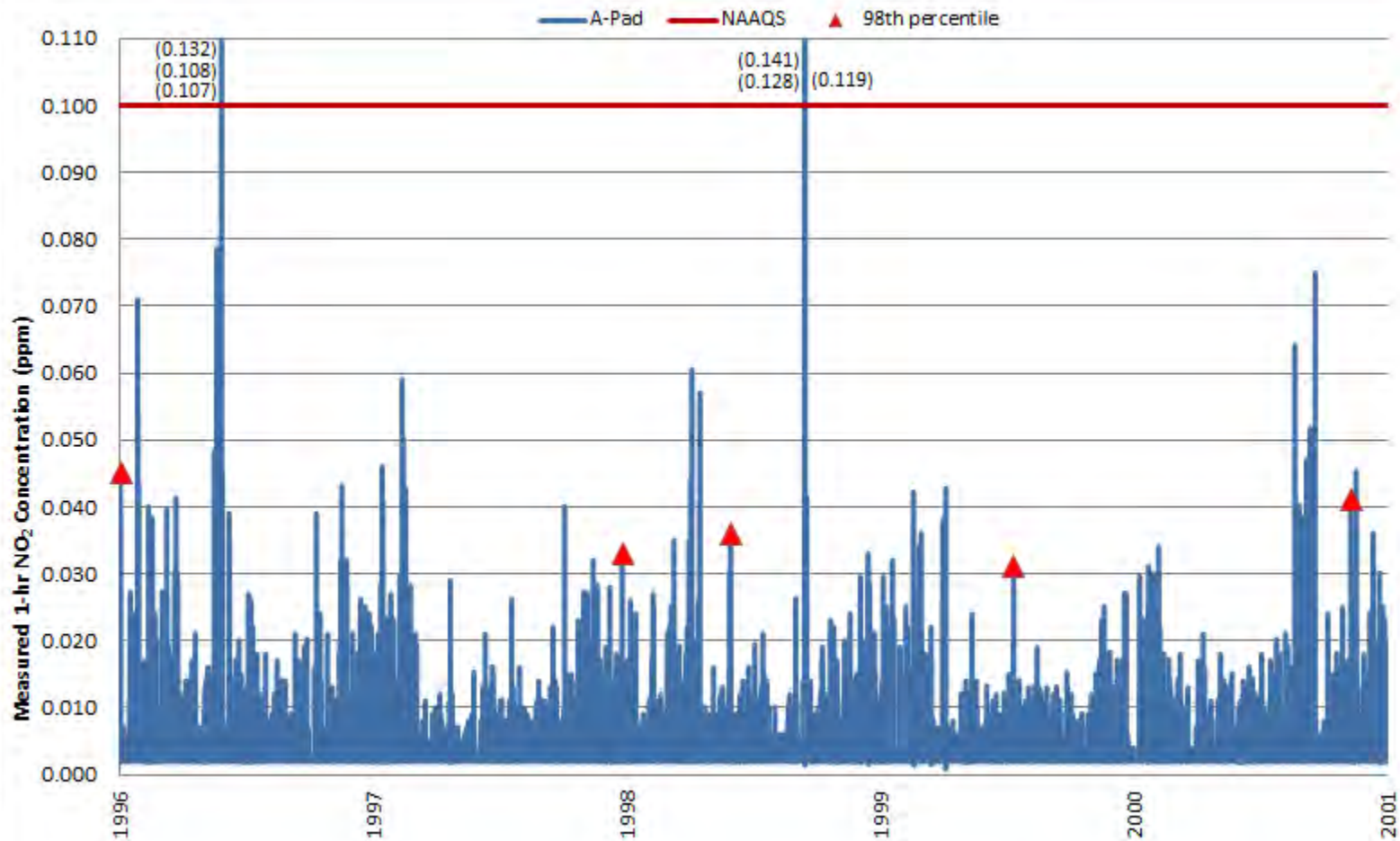
A-Pad



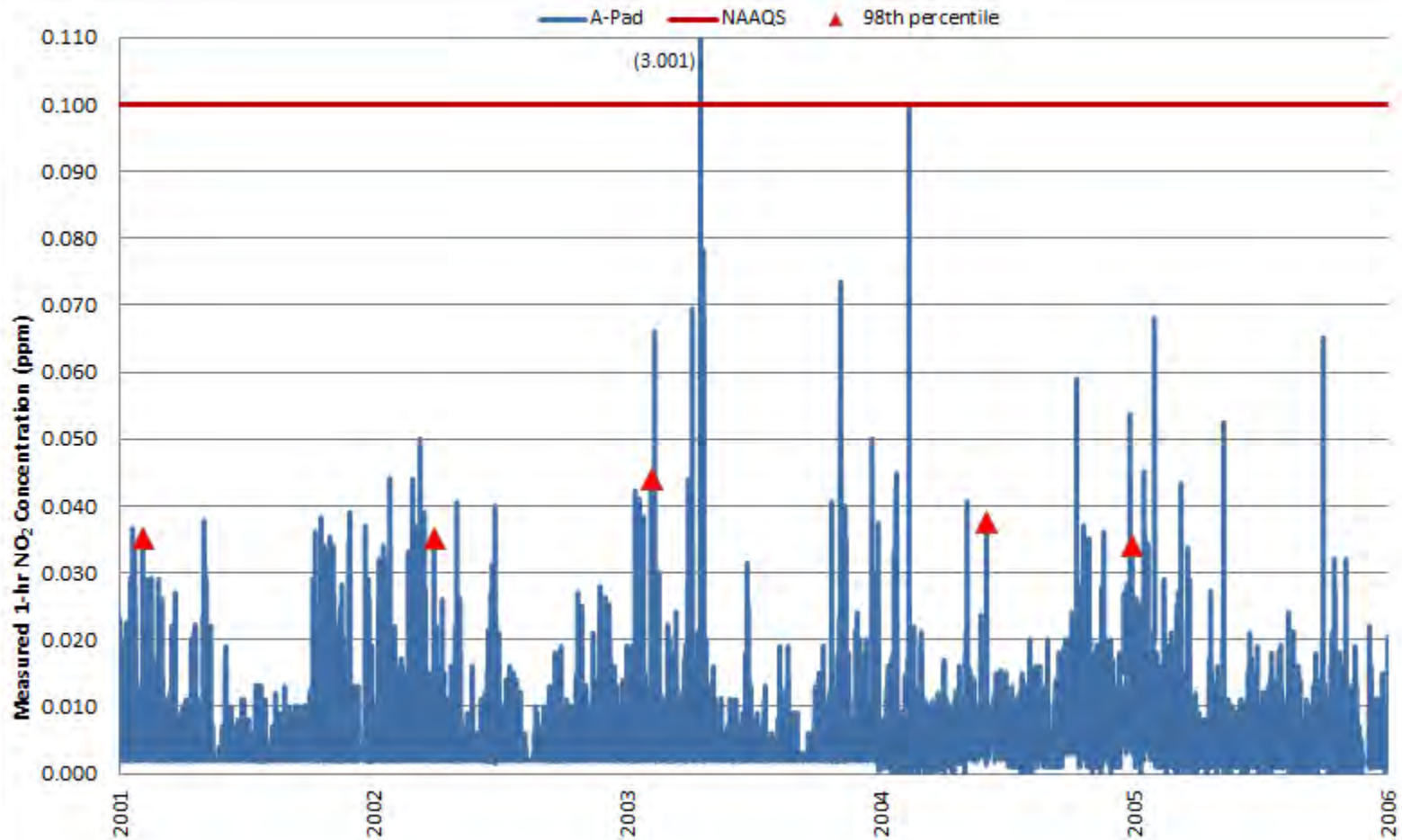
A-Pad



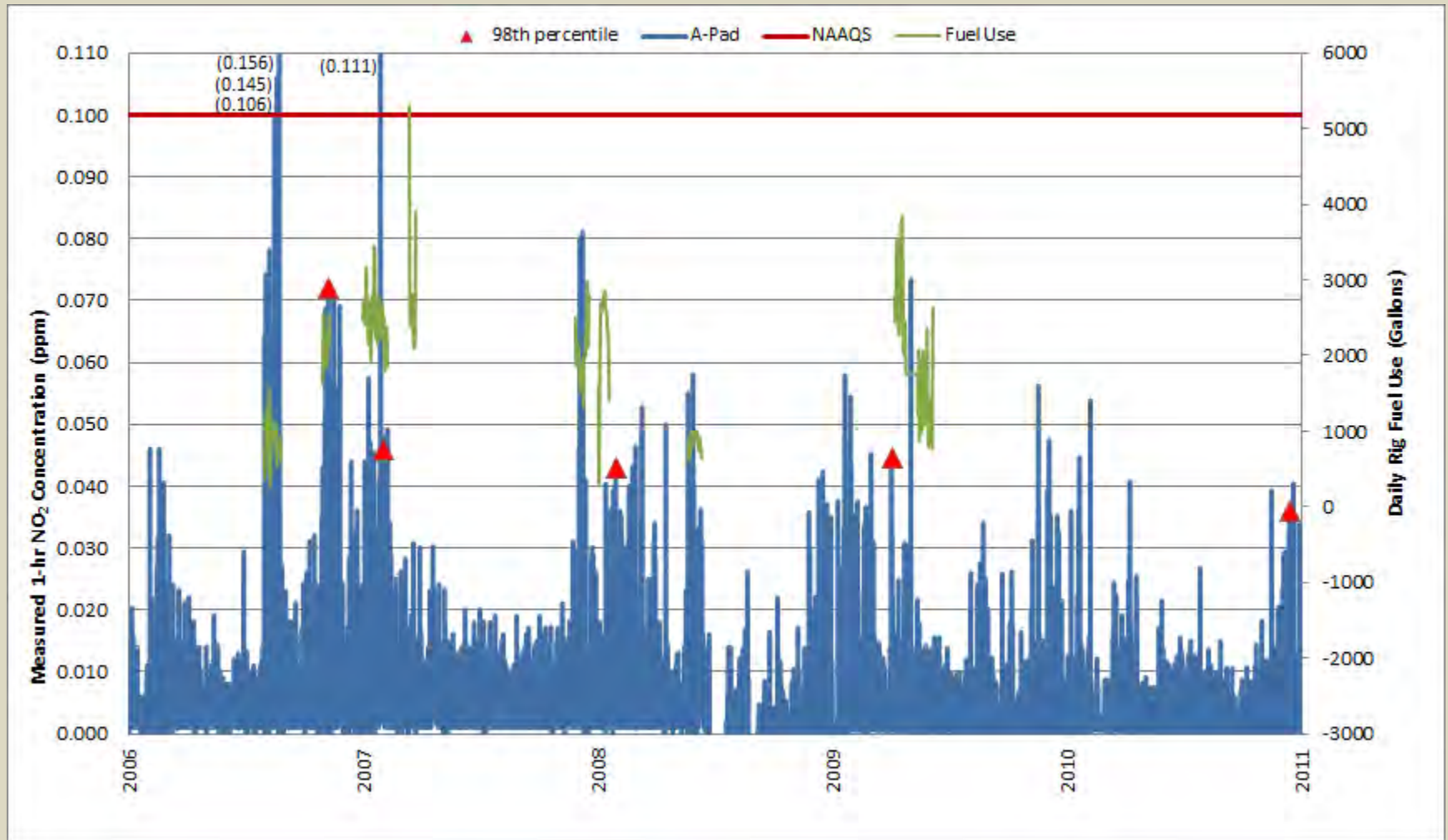
A-Pad



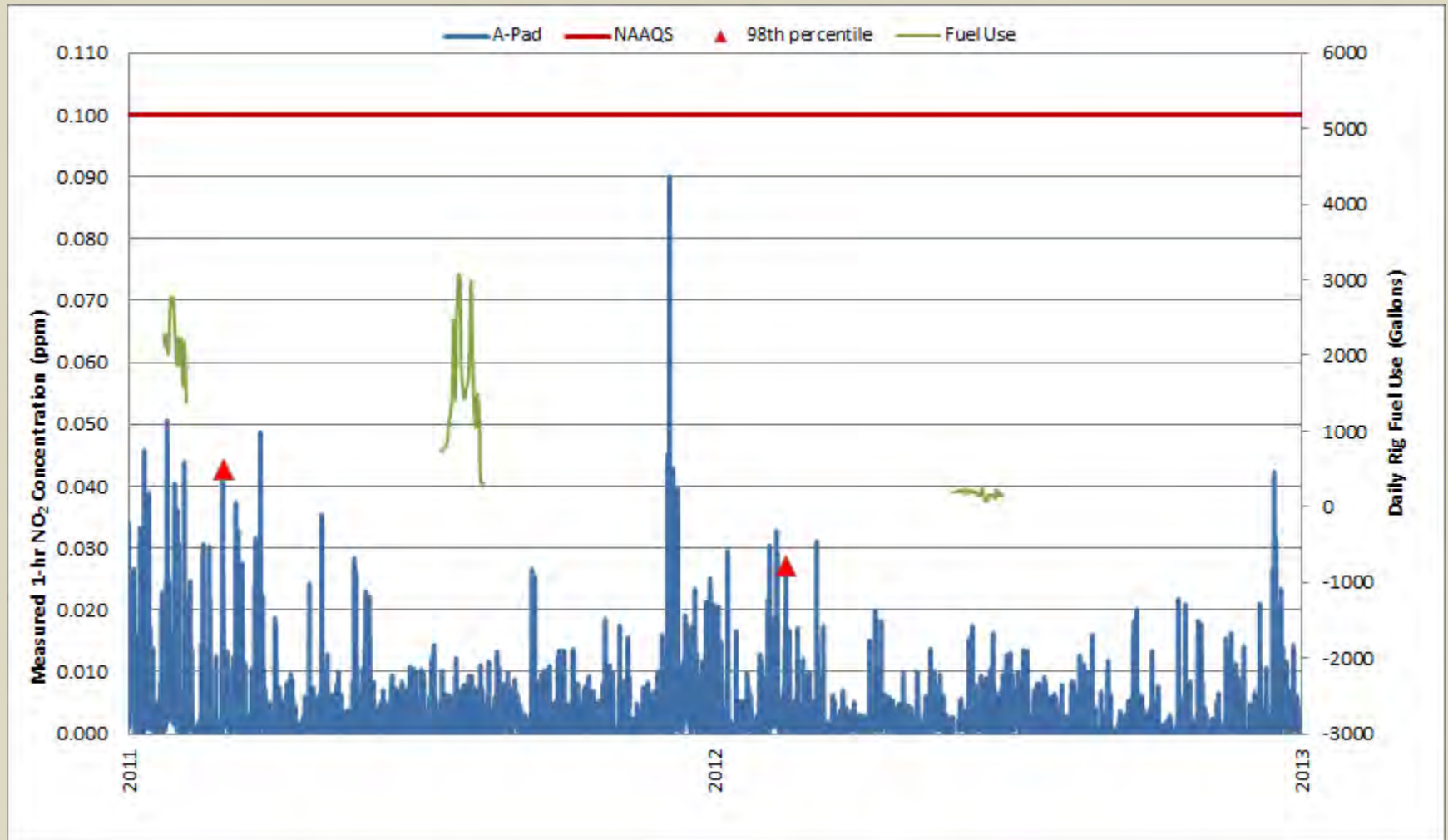
A-Pad



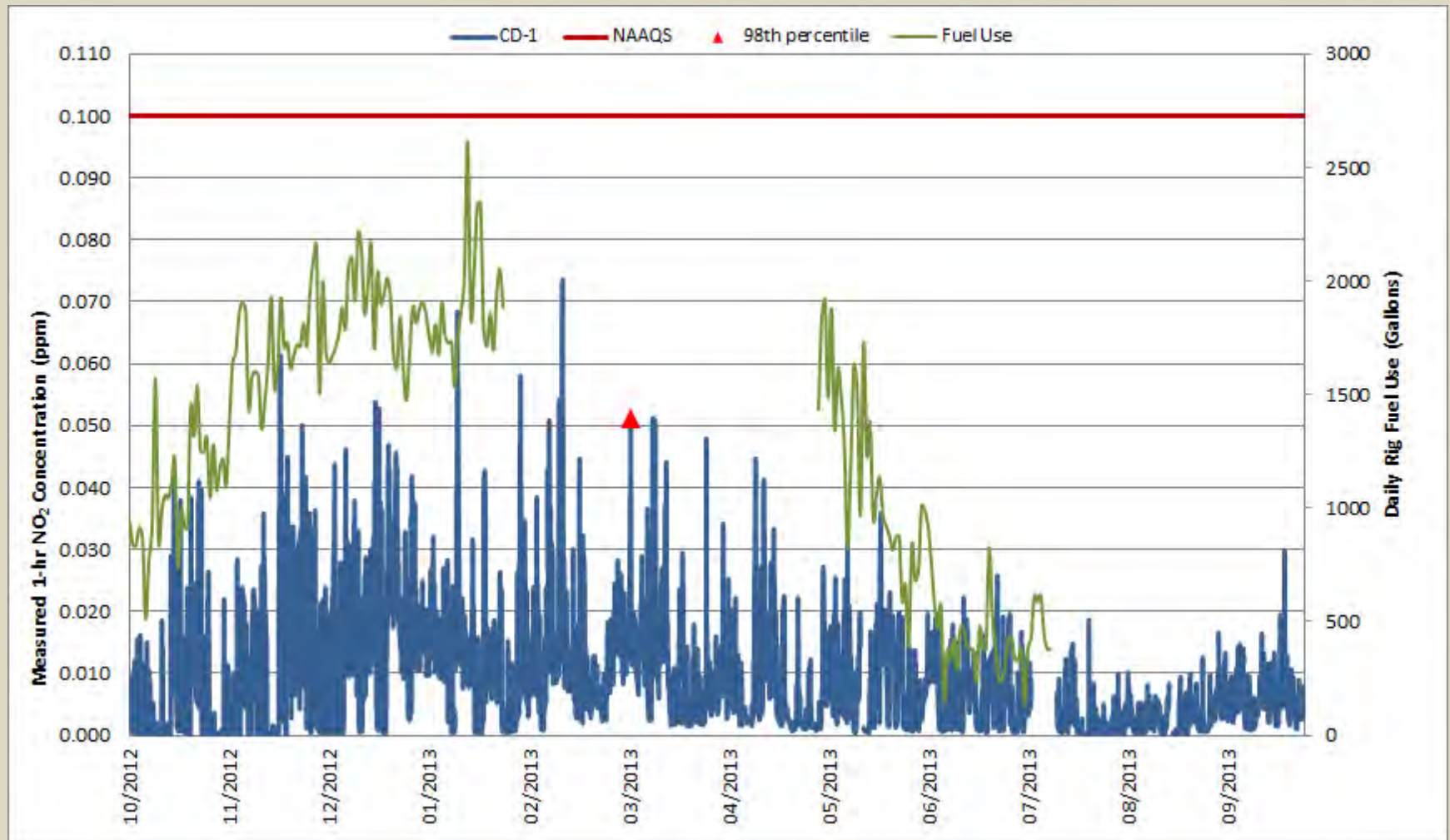
A-Pad



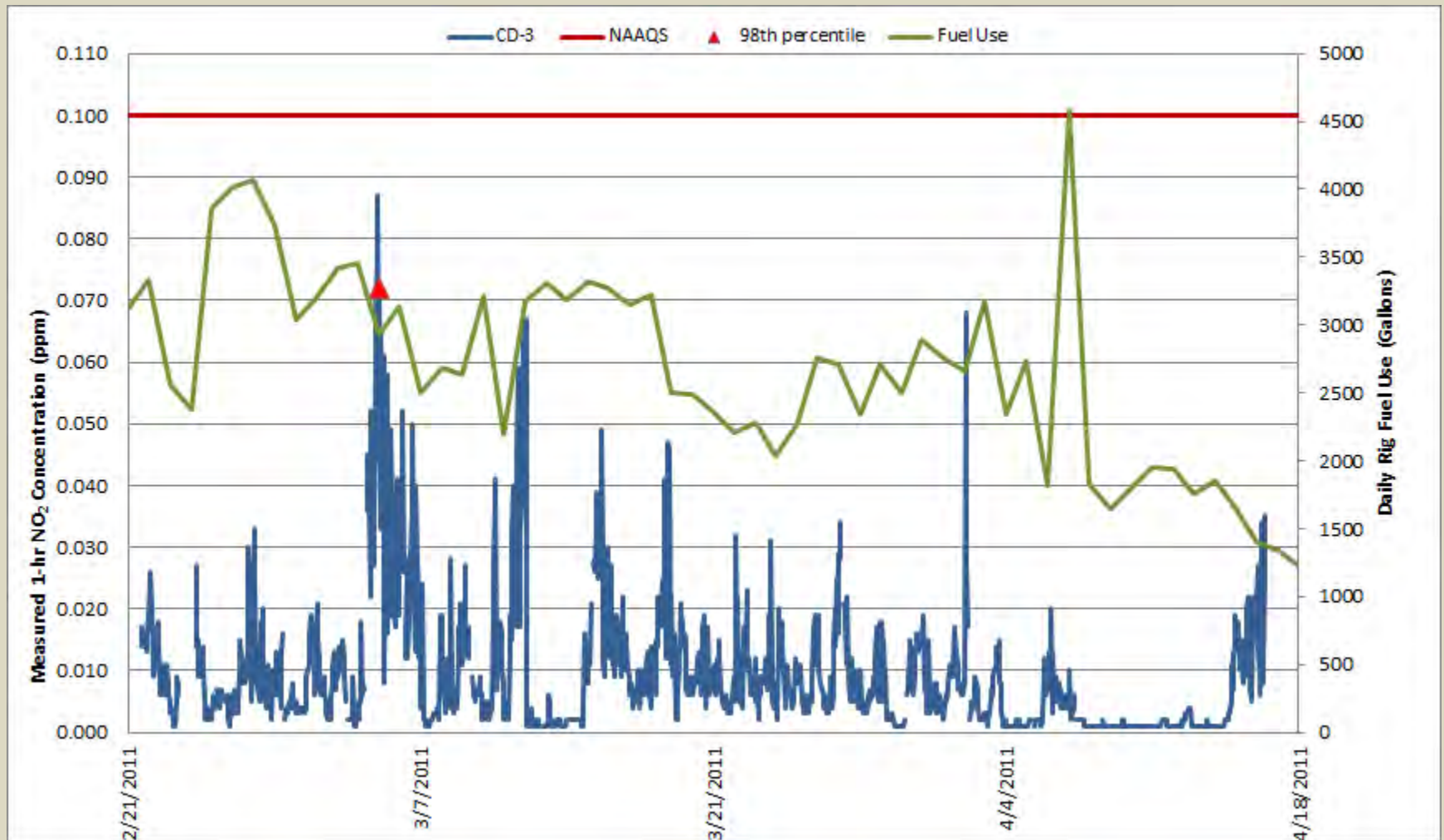
A-Pad



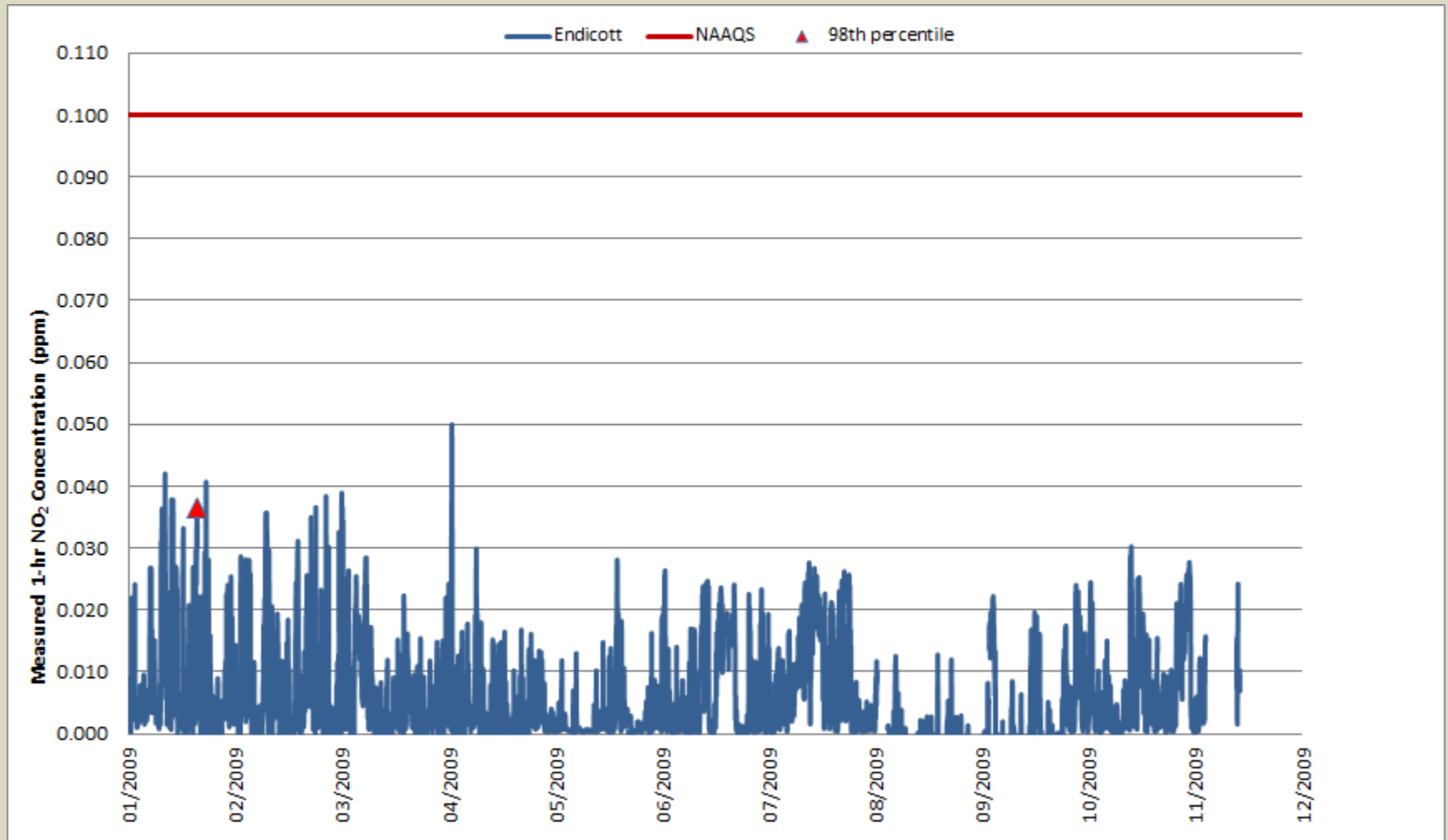
Alpine CD-1



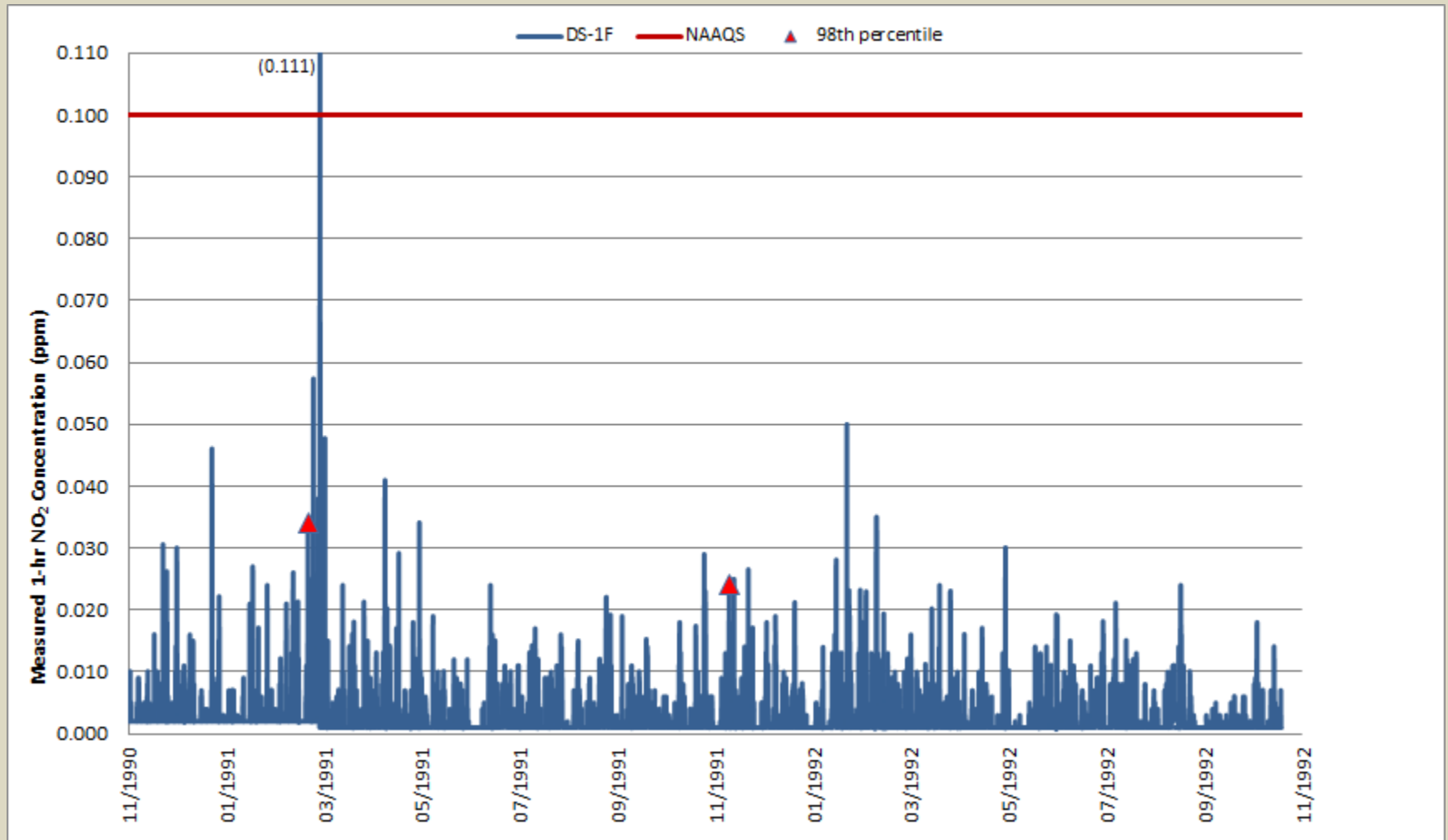
Alpine CD-3



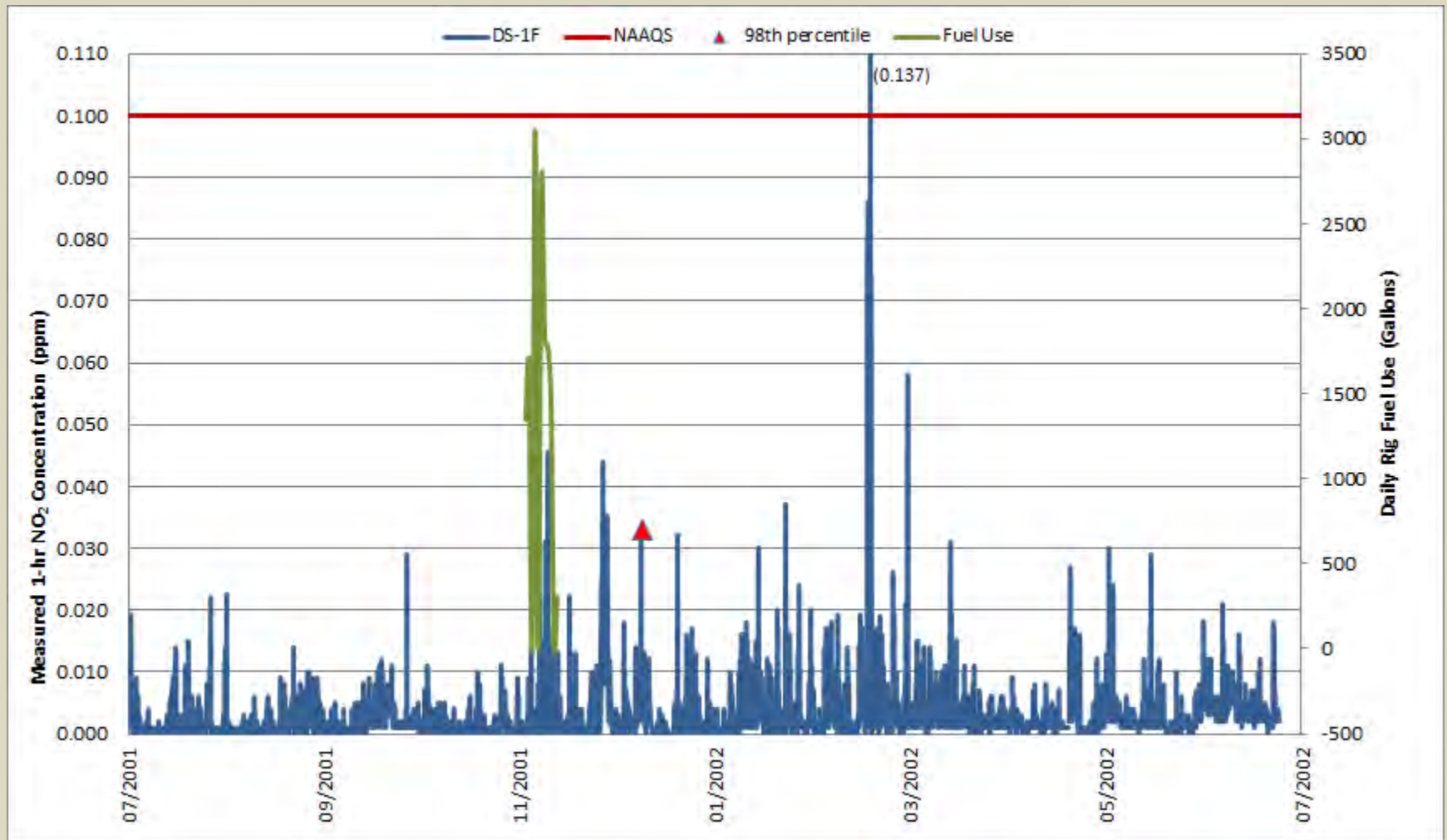
Endicott (MPI)



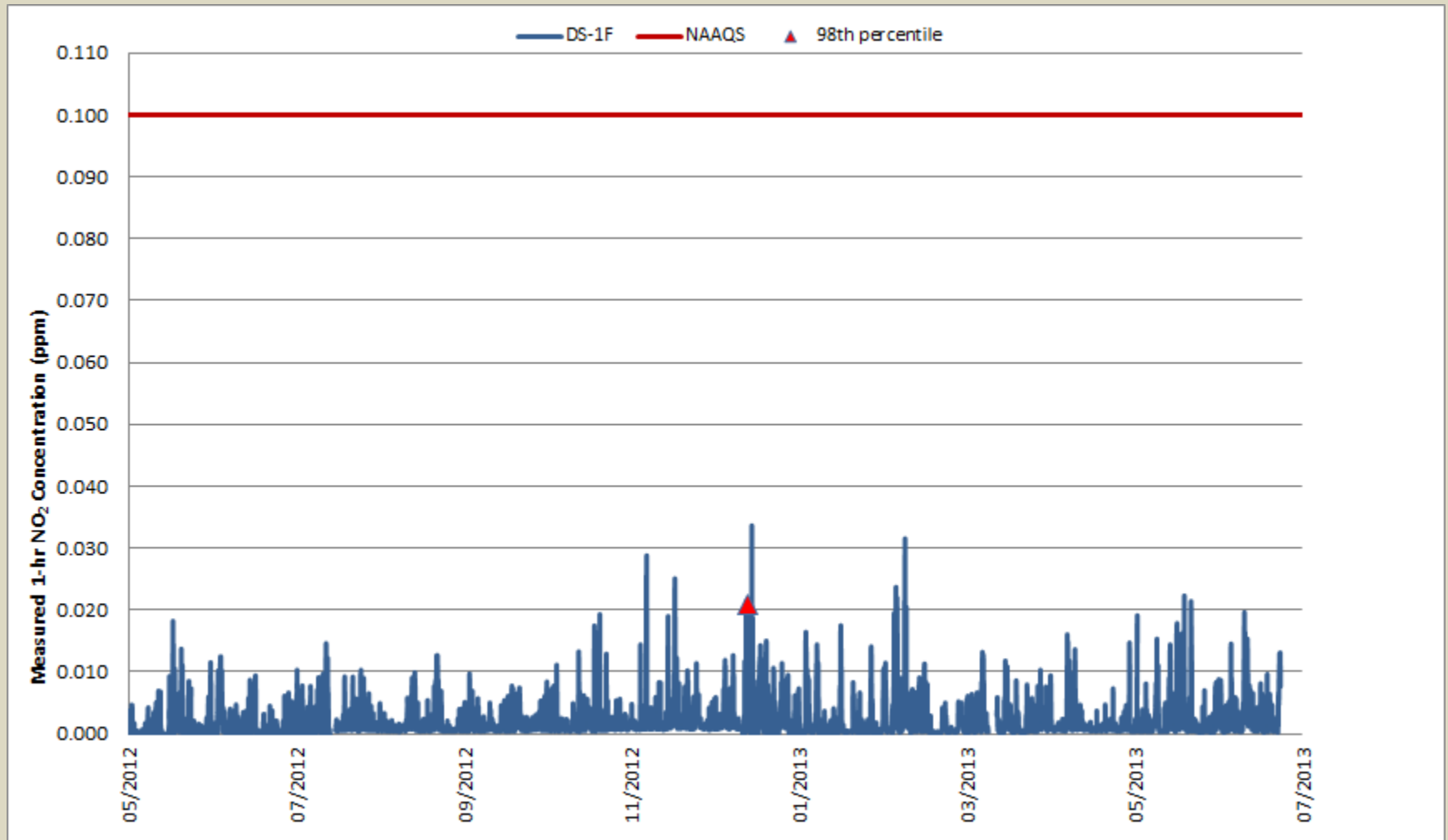
Kuparuk DS-1F



Kuparuk DS-1F

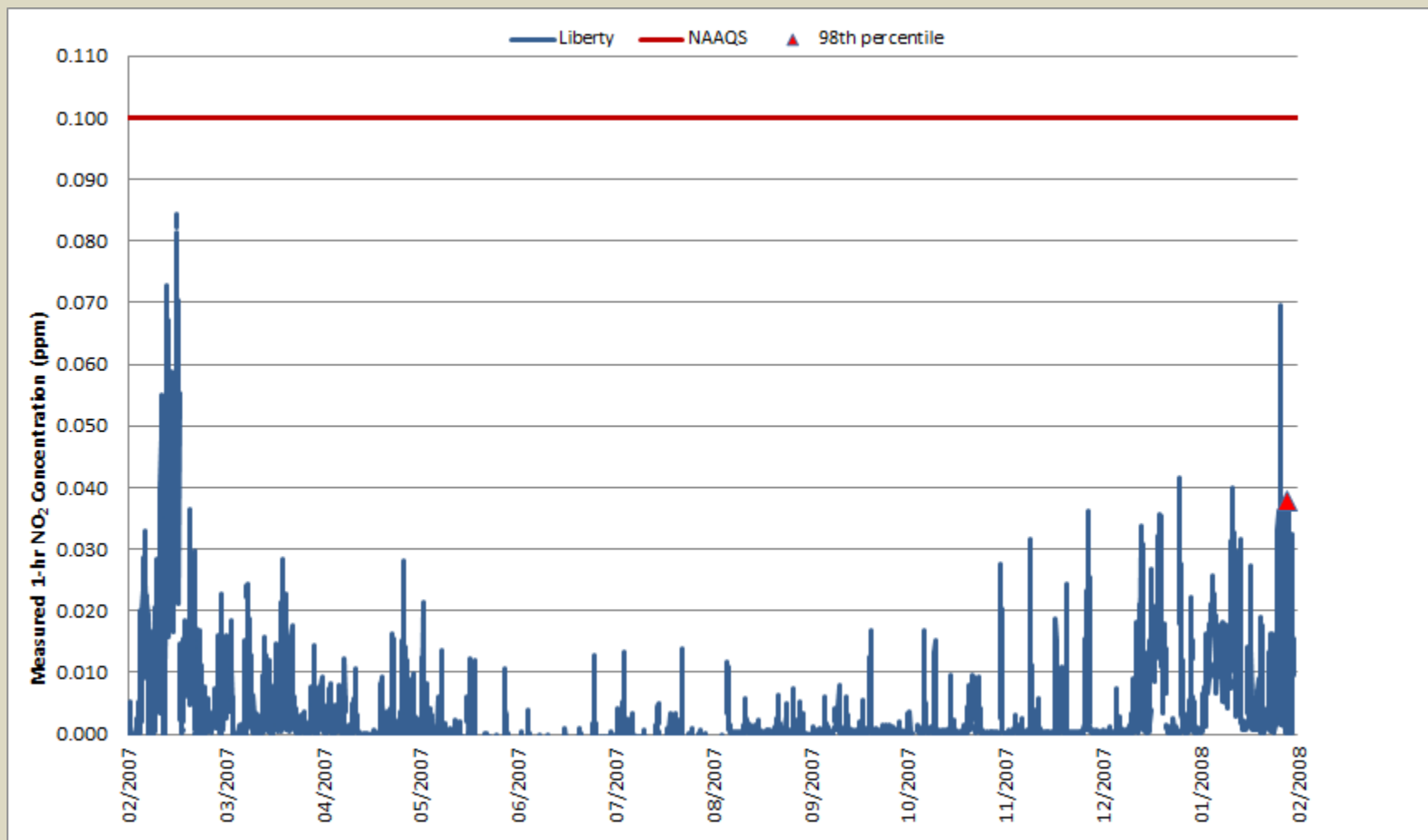


Kuparuk DS-1F

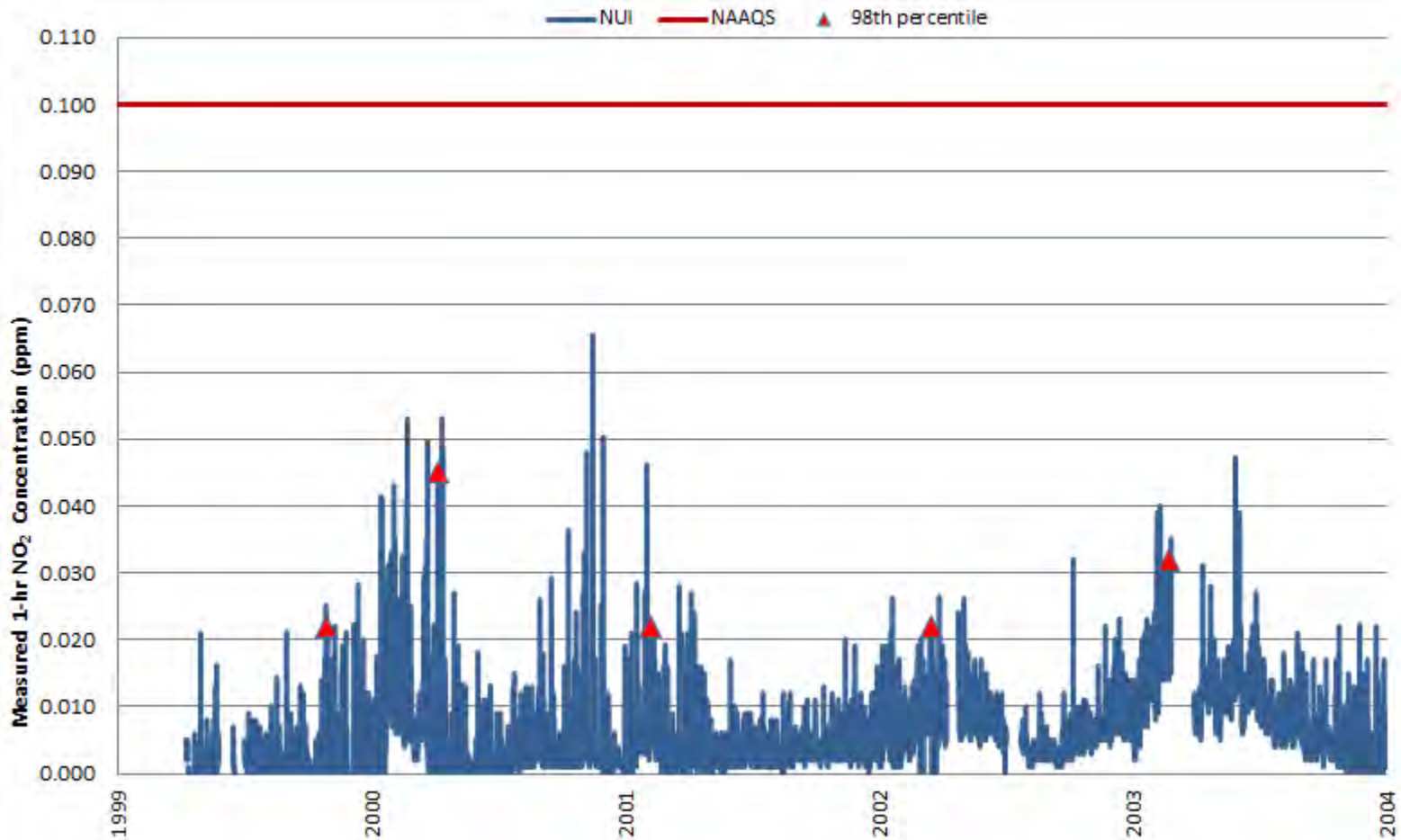


No drill rig activity during monitoring period.

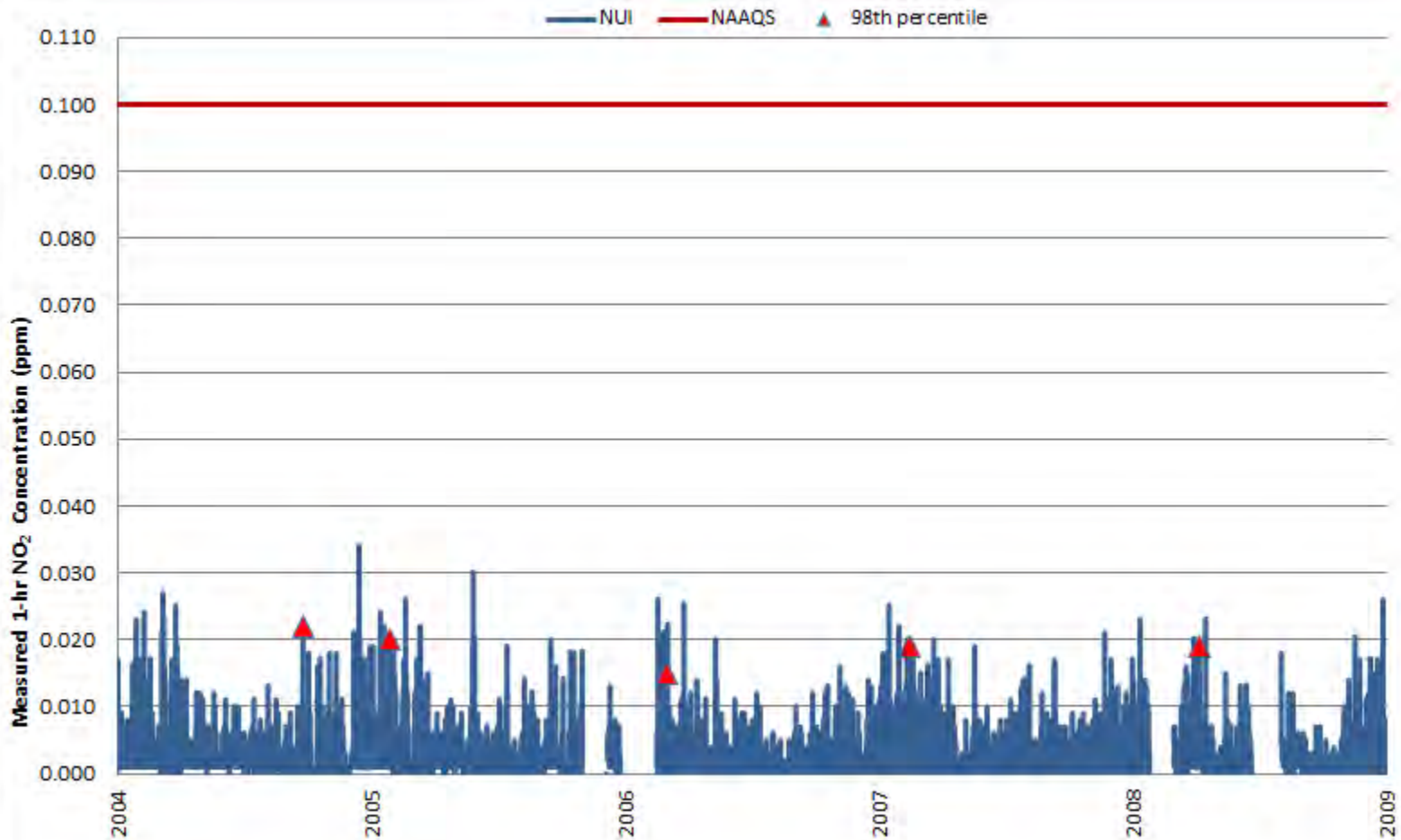
Liberty



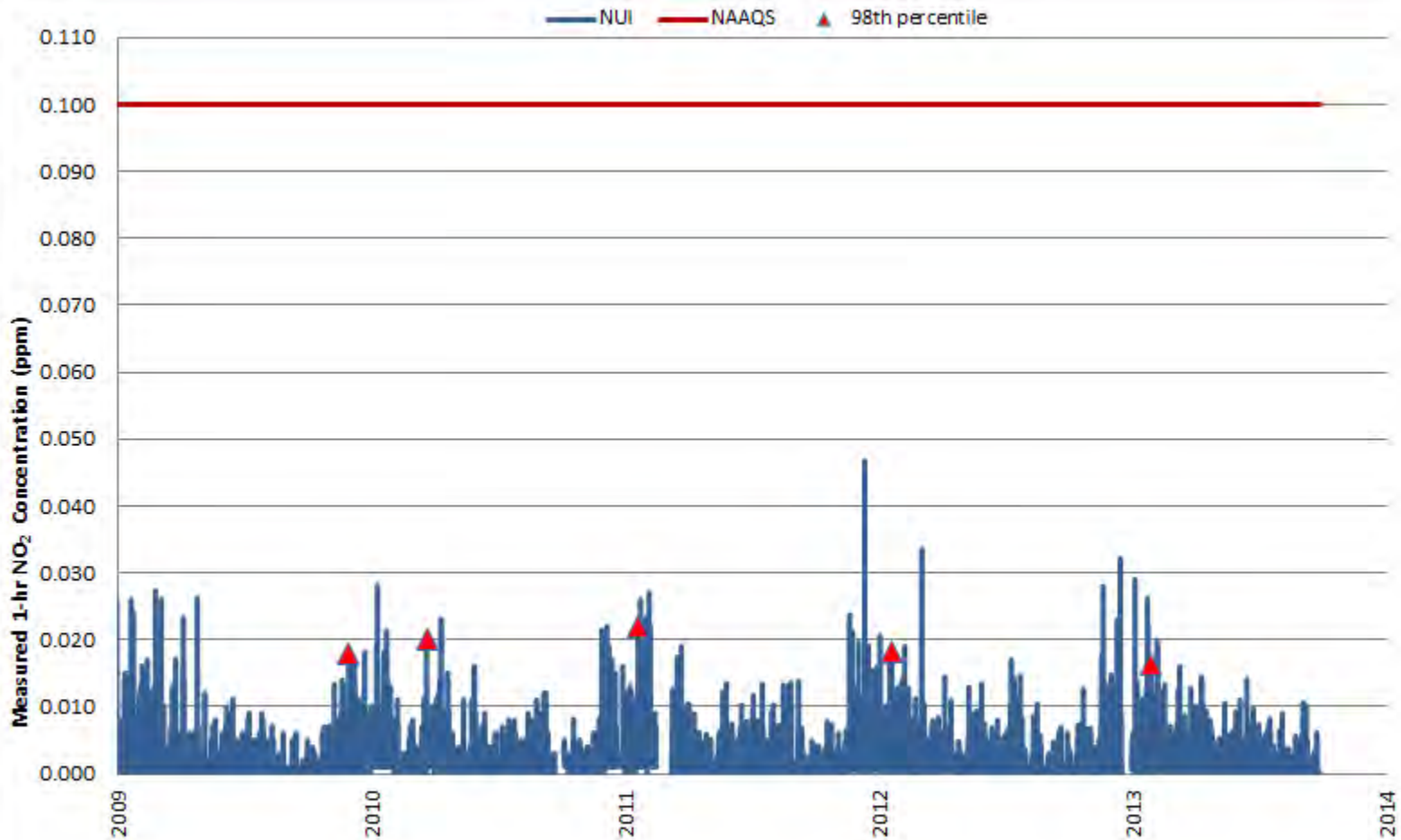
Nuiqsut



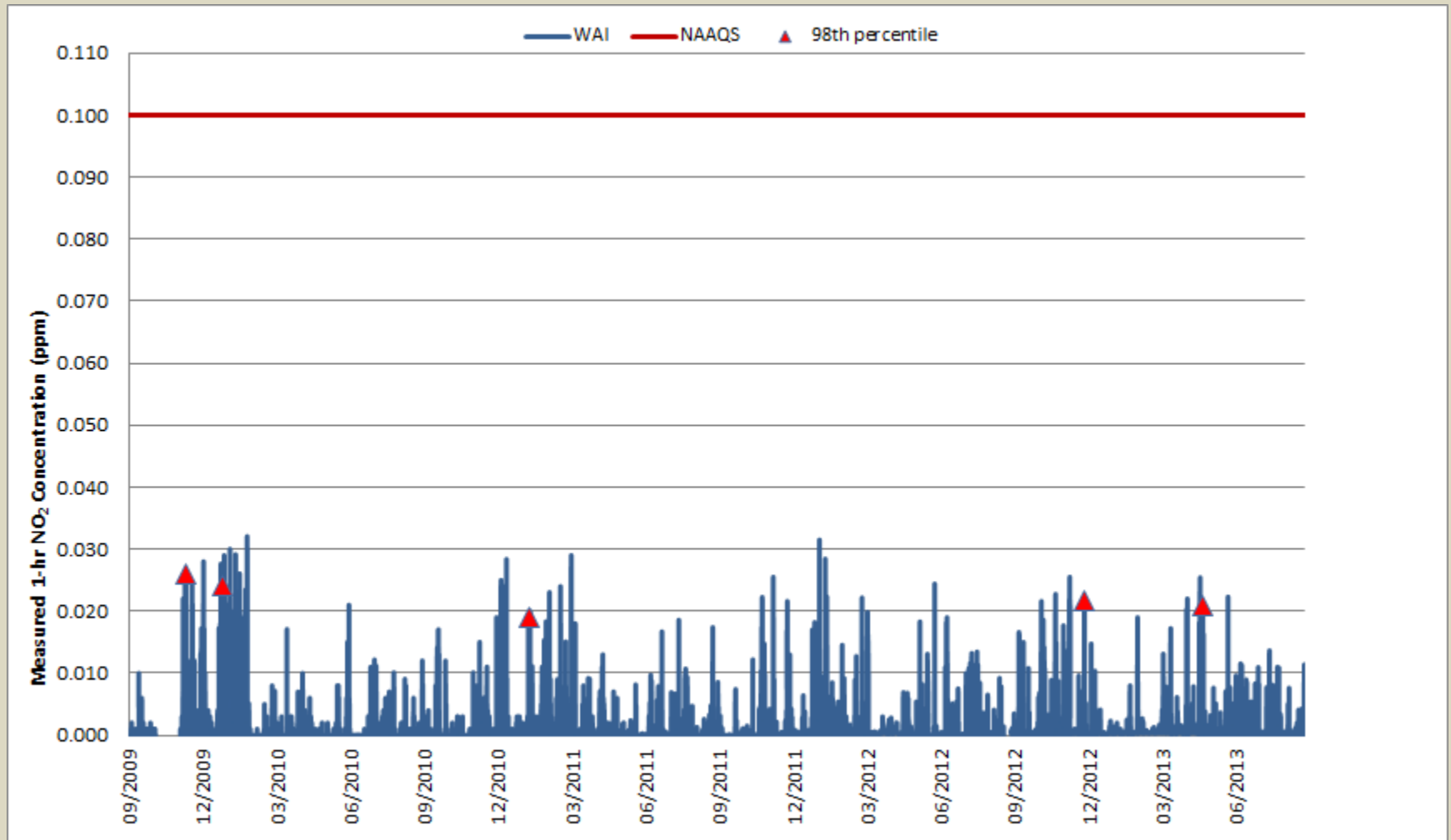
Nuiqsut



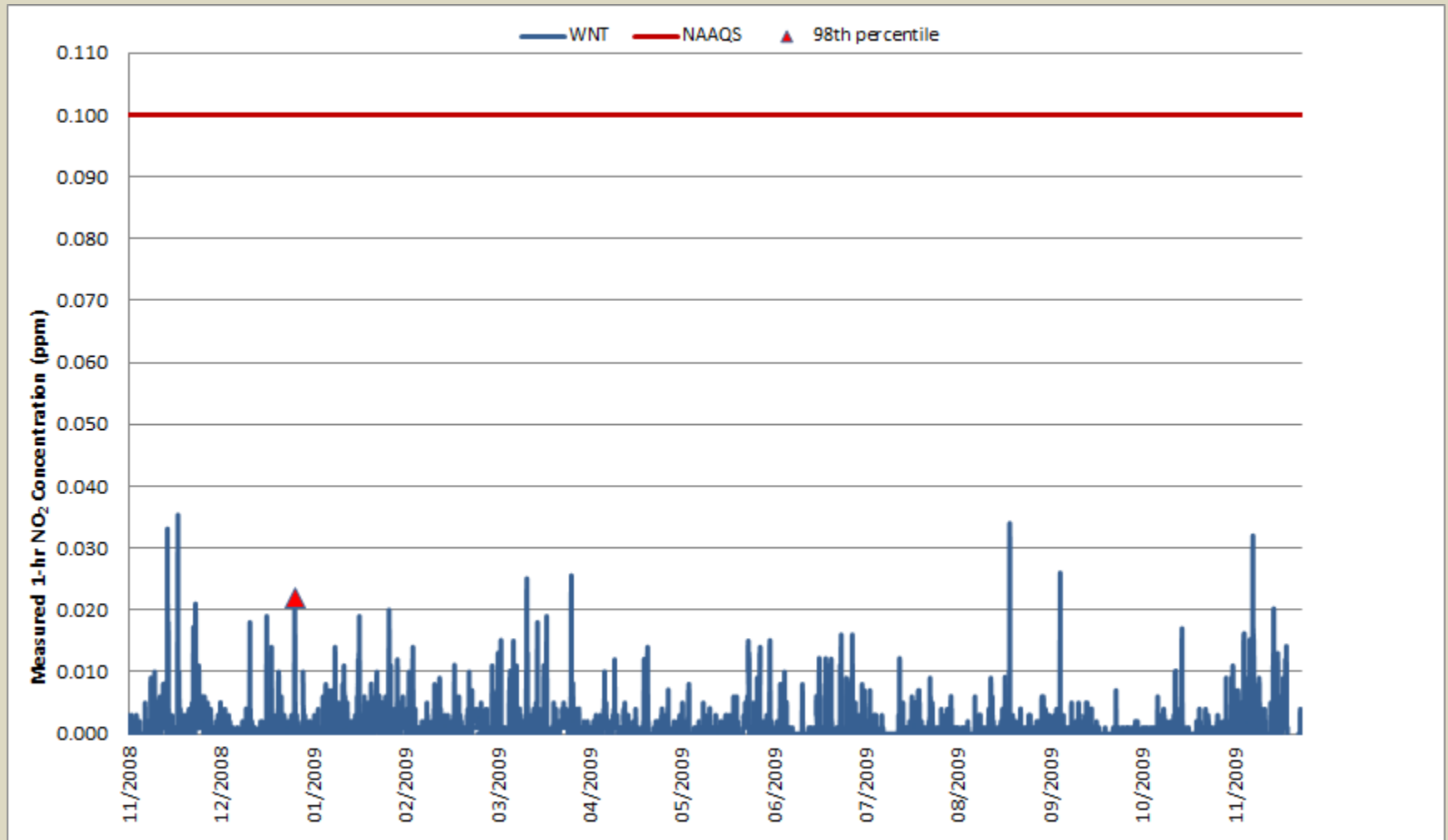
Nuiqsut



Wainwright (WAI)

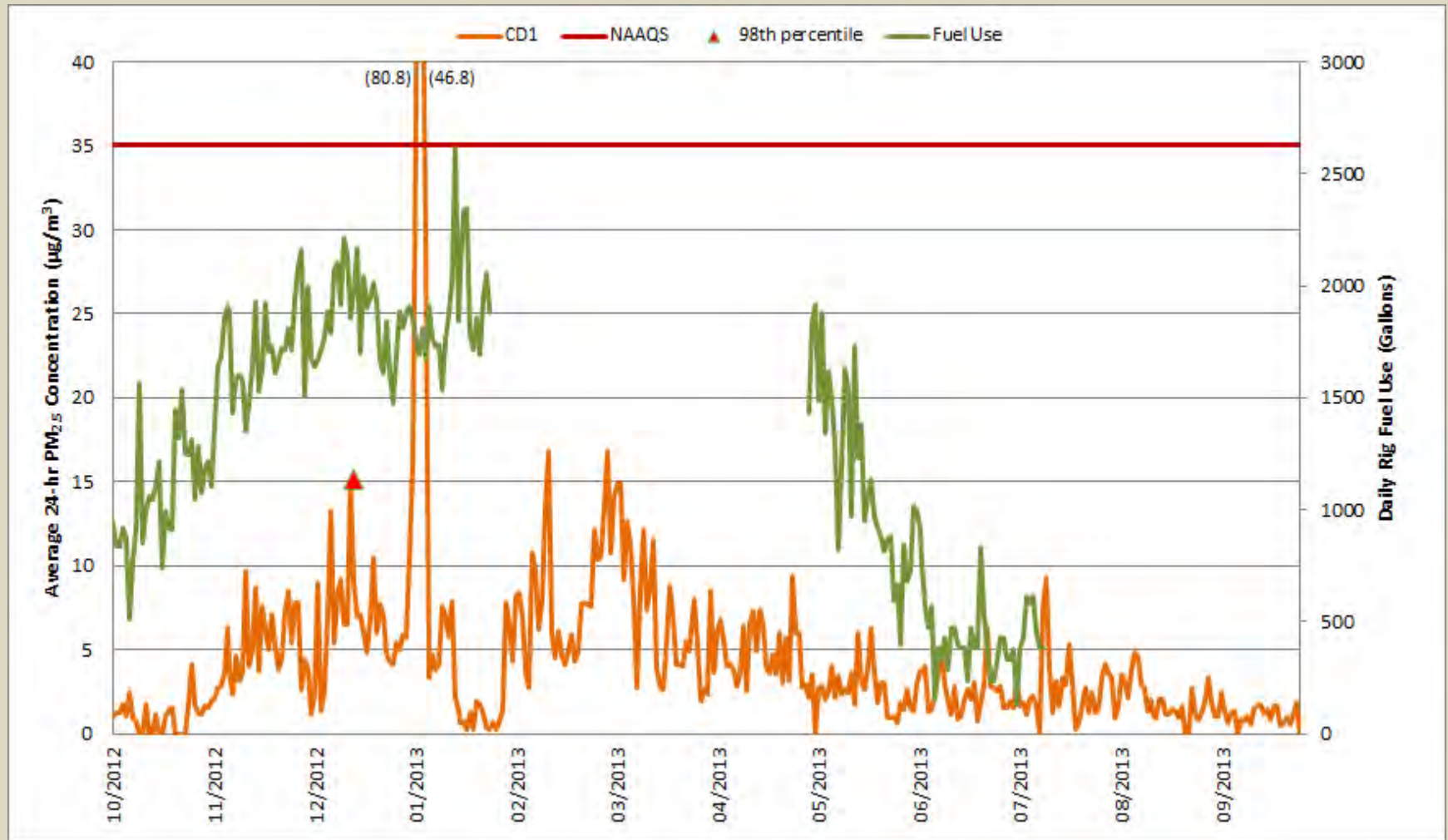


Wainwright Near-Term (WNT)

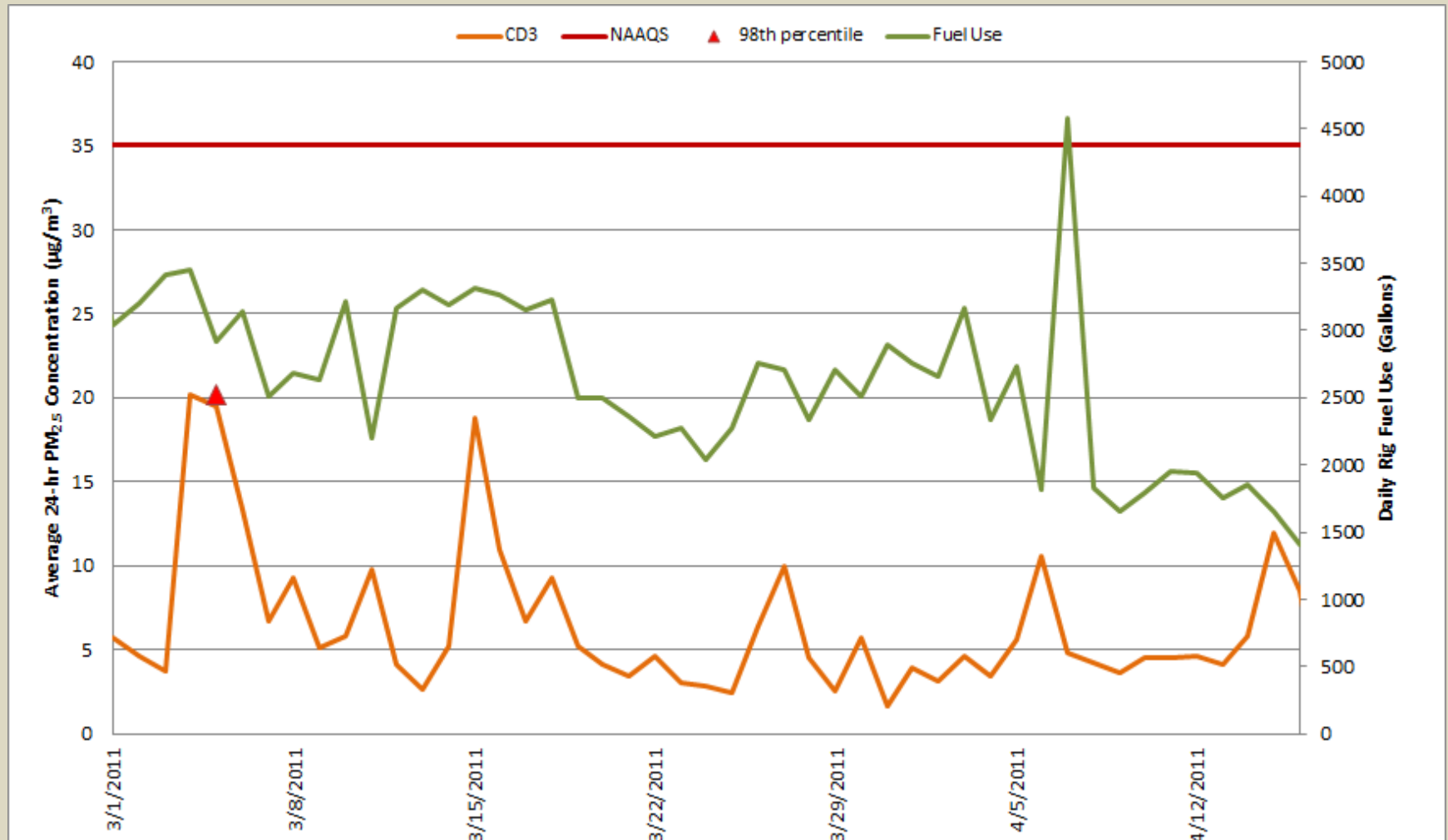


24-hour PM_{2.5} Data

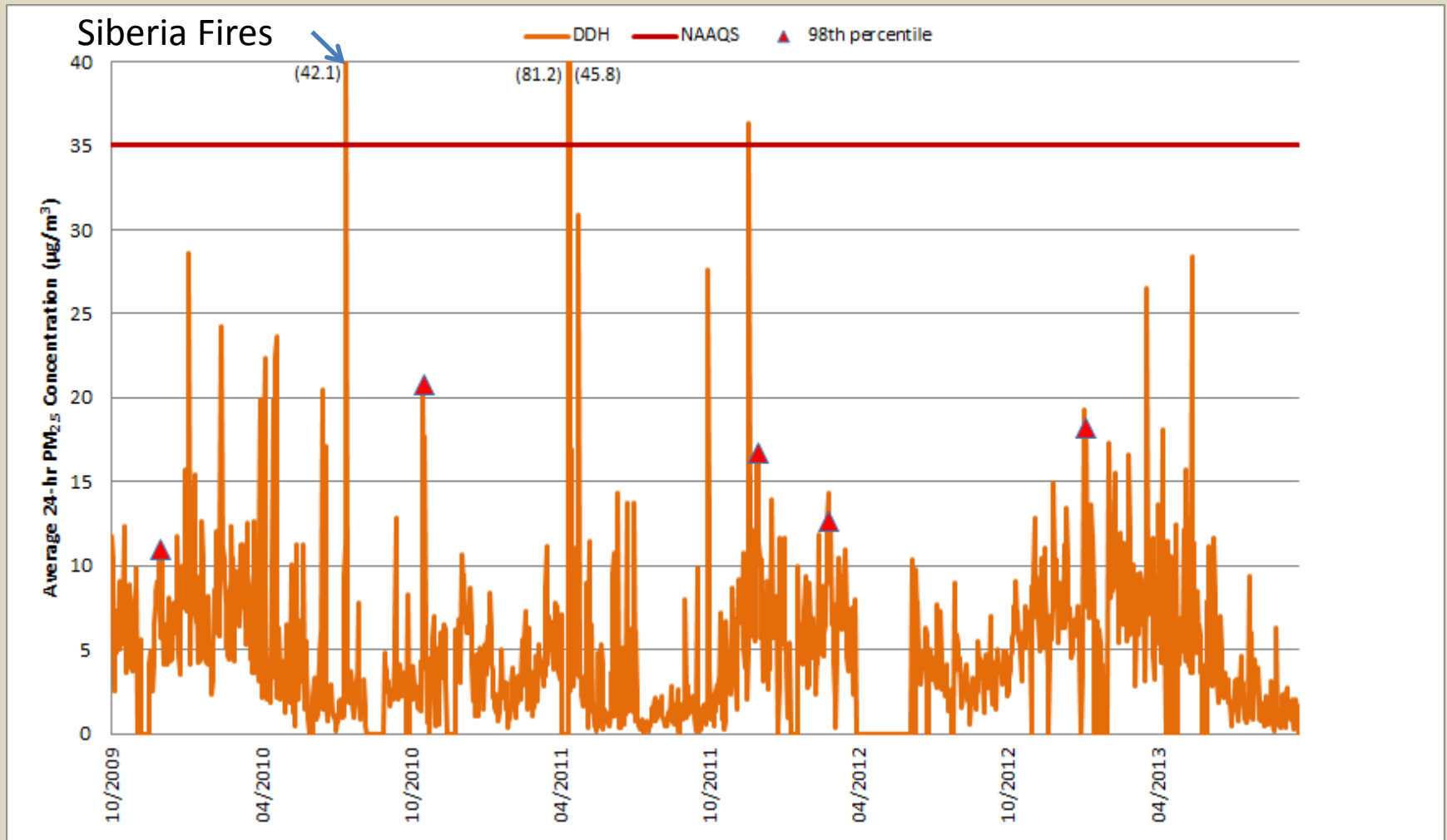
Alpine CD-1



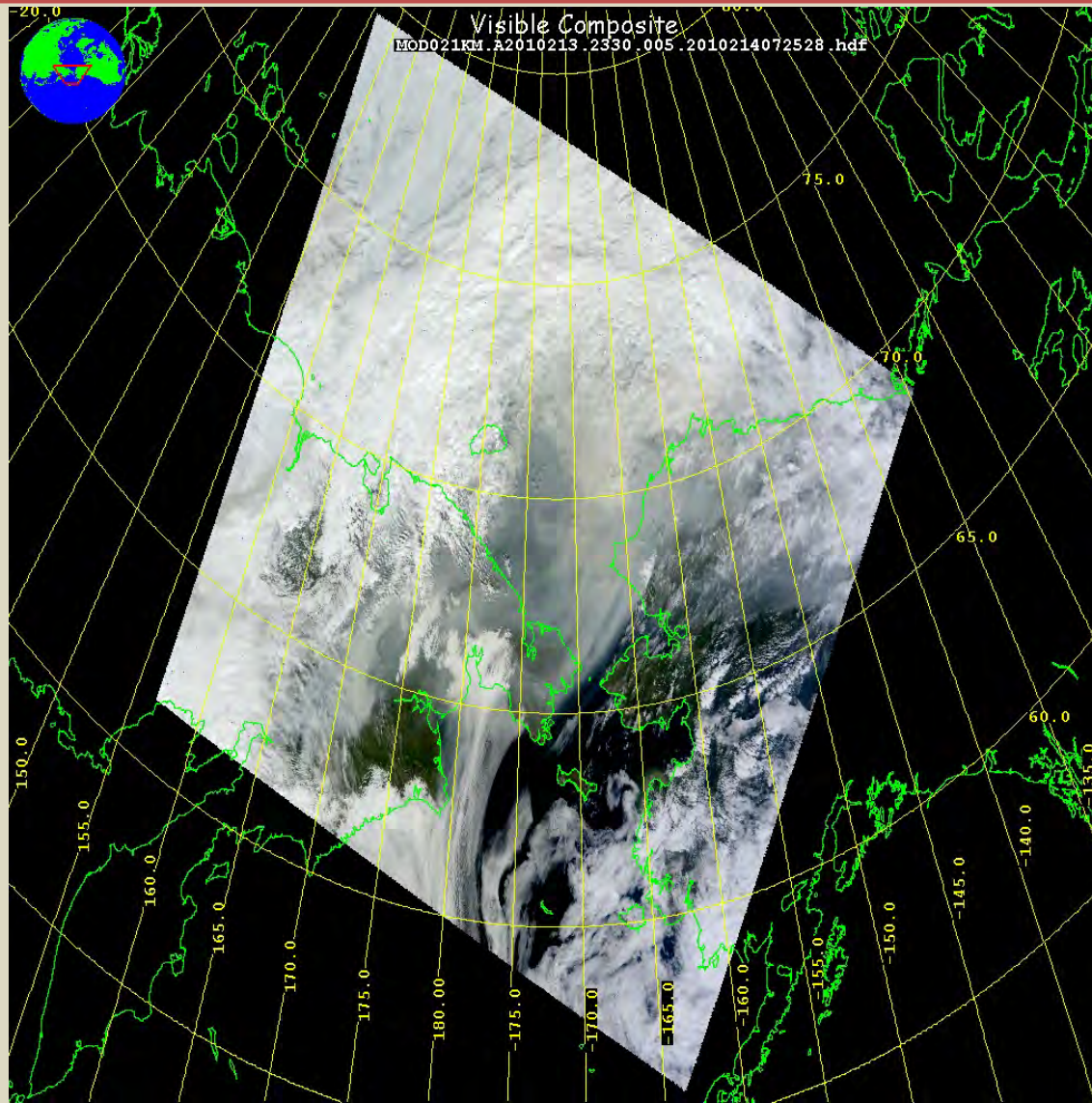
Alpine CD-3



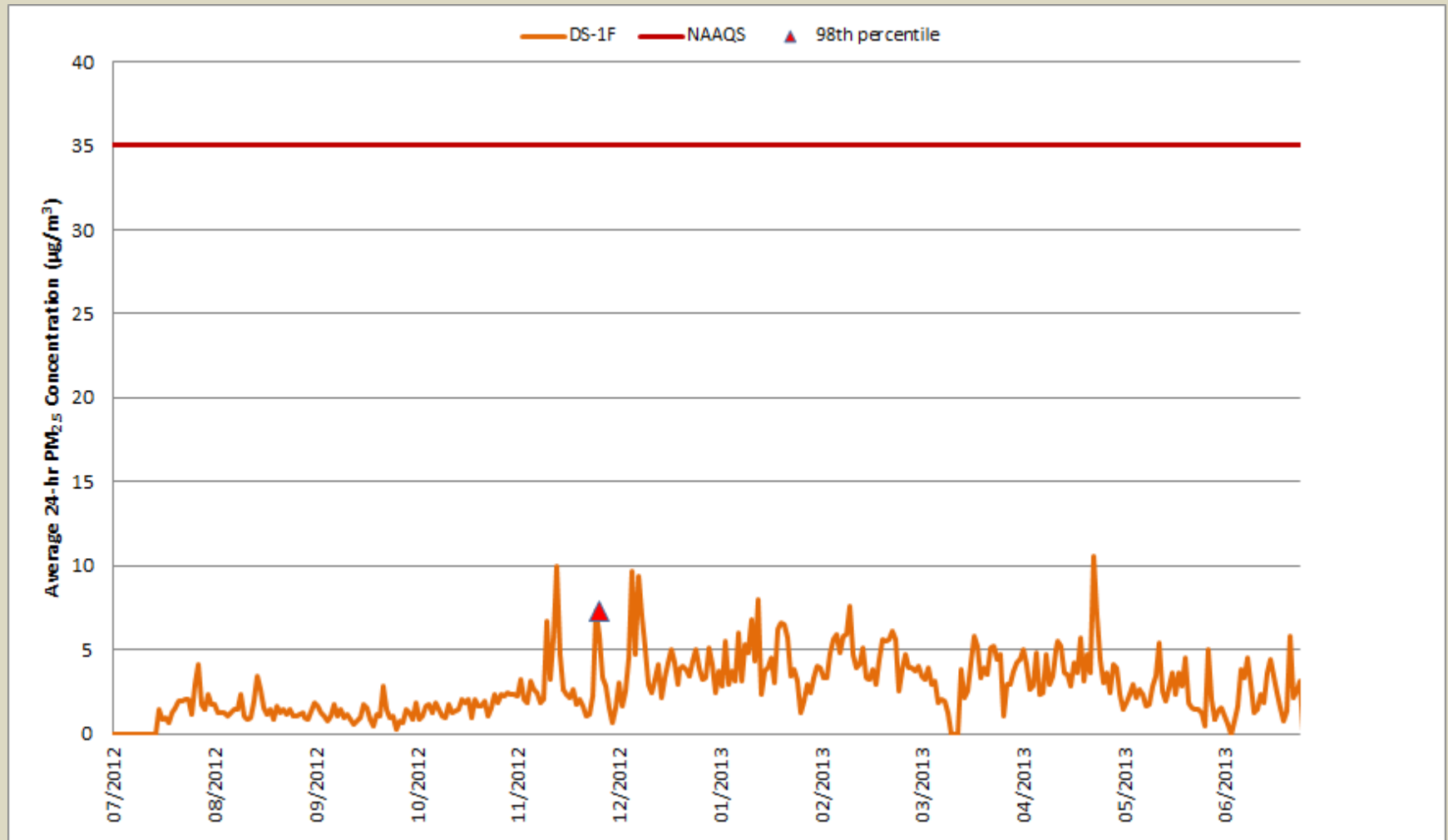
Deadhorse (DDH)



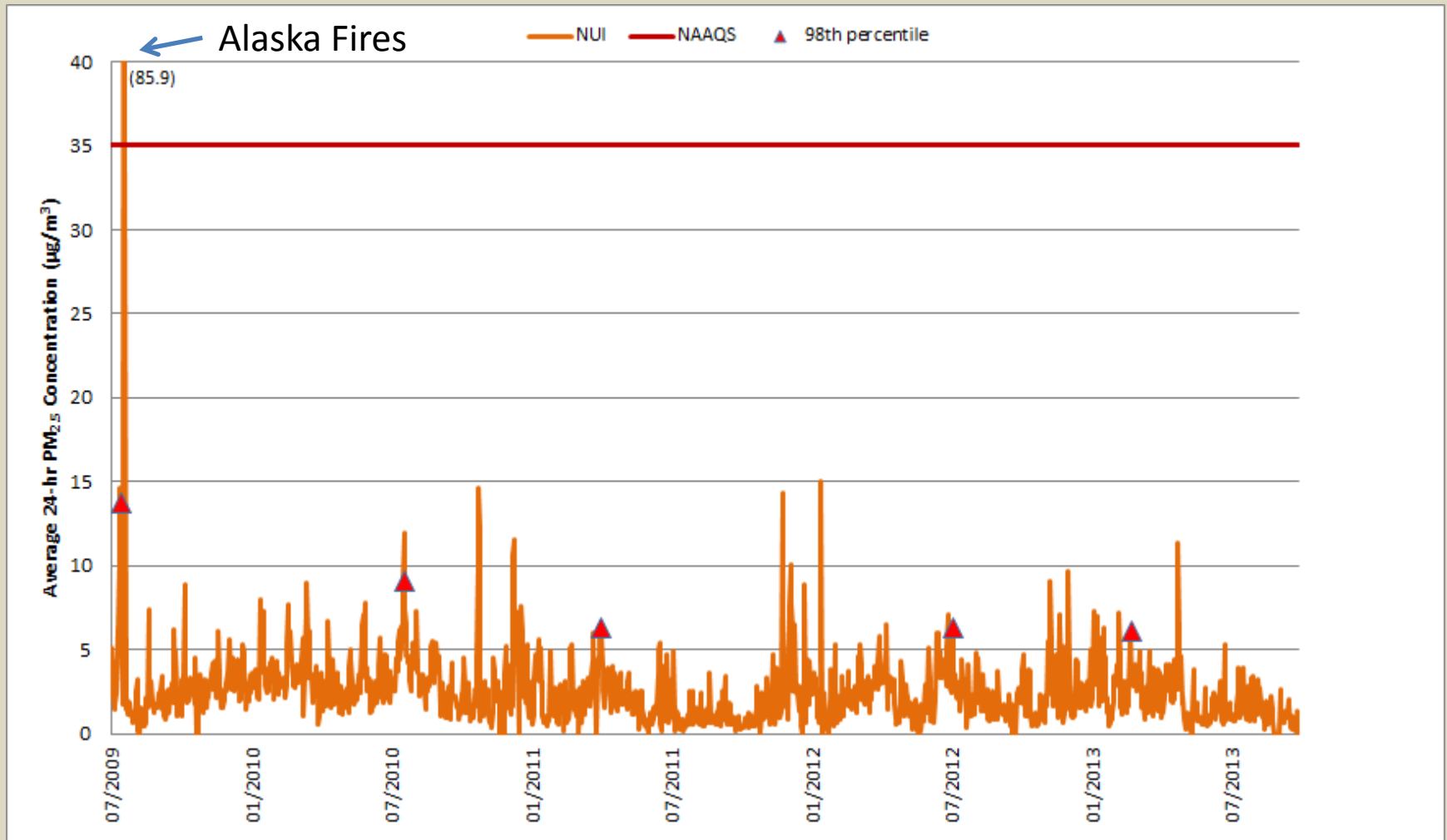
Siberian Smoke August 1, 2010



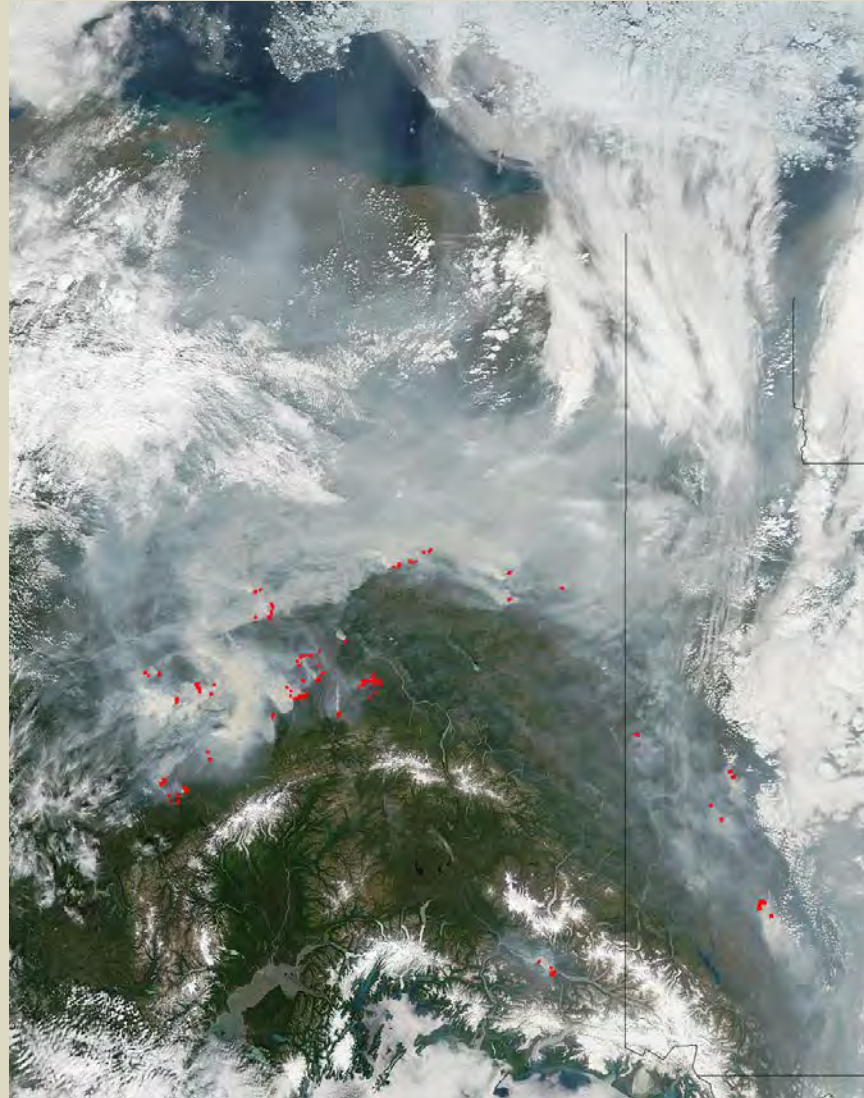
Kuparuk DS-1F



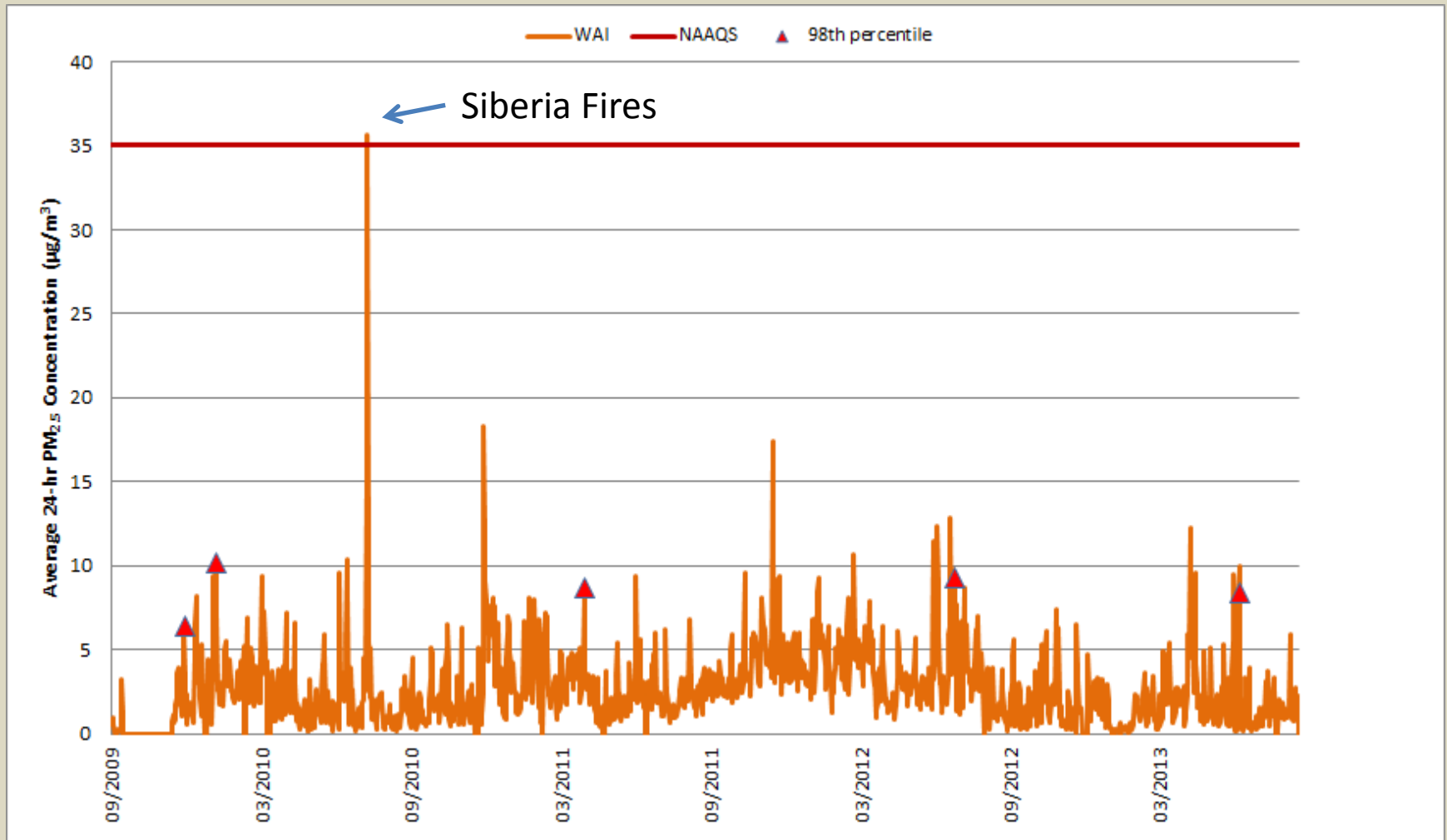
Nuiqsut



Alaska August 3, 2009



Wainwright (WAI)



Wainwright Near-Term (WNT)

