File #	Original File Name
1	PAC2001_LNEL_WRL_HYGGRO_HTDMA_20010816D16_V1.csv

Data Exchange Standard Version	Principal Investigator Namelast first			As	Sampling Frequency Of Data in	Quality	Organization Acronym	Organization Name
NARSTO 2002/05/28 (2.301)	Richard	Service of	Hyg_Growth_Fac ; Hygroscopic Growth Factors for 50 nm and 100 nm Particles		Variable interval	1		Environment Canada, Meteorological Service of Canada

Data Usage Acknowledgement	Acronym	Network Name	Country Code	Code	Principal Investigator Contact Information	Co-investigator Namelast first	Co-investigator Affiliation
Air Quality Research Branch, Meteorological Service of Canada, 4905 Dufferin Street, Toronto, Ontario, M3H 5T4, and Colorado State University, Department of Atmospheric Science, Fort Collins, CO 80523			CA (CANADA)		Air Quality Research Branch, Meteorological Service of Canada, 4905 Dufferin Street, Toronto, Ontario M3H 5T4, Tel. 416-739-4616, Richard.Leaitch@ec.gc.ca	Anthony	Colorado State University, Department of Atmospheric Science

Name And Affiliation Of Person Who Generated	Modification To Data In	Used To Create	File Name format And	archive Version		Table Explanation Of Reported Detection Limit
This File	Main Table			Number	Table Explanation Of Zero Or Negative Values	Values
Dr. Anthony J. Prenni,		MS Excel 2000	,		F	No below-detection-limit
Colorado State					5 ·	values are reported
University					peak was observed	in this table.

Table Explanation Of Reported Uncertainty		User	User	Table User Note4
	humidities. Additional variability results because of time needed to systematically determine dry particle size. Large gaps in data result because instrument was not	None		

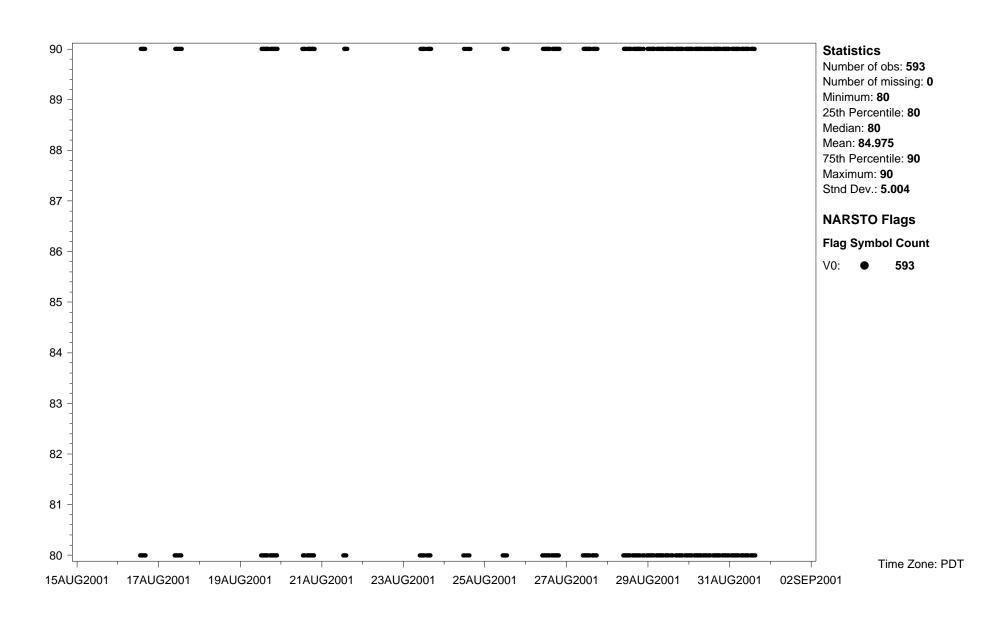
Table Name	Table Focus
Hygroscopic_Growth_Factors	Surfacefixed

Site Information

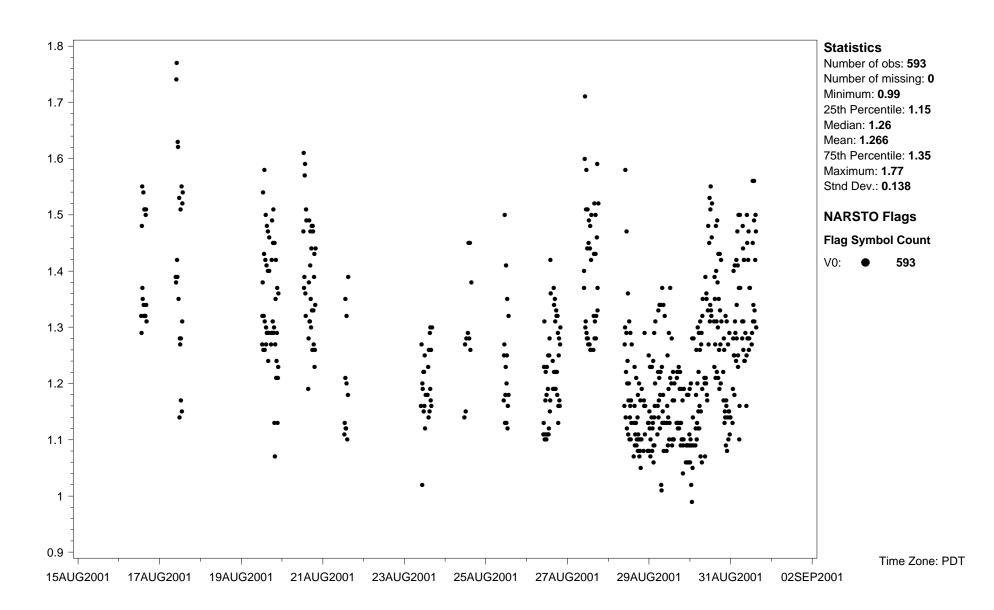
ſ						Sampling	Ground							
						height	elevation							
- 1			State	Latitude:	Longitude:	above	above		Site				Study	Lat
- 1			Province	decimal	decimal	ground	sea level	Site land	location	Measurement	Measurement	Co-incident	site	lon
-	Site ID	Name	code	degree	degree	(m)	(m)	use	setting	start date	end date	measurements	ID	accuracy
	PC01CABCLNEL	Langley Ecole Lochiel	BC	49.028400	-123.603600	5.0	94.0	Agricultural	Rural	2002/08/16	2002/08/31	See project plan		

Flag: NARSTO	Description
H1	Historical data that have not been assessed or validated
M1	Missing value because no value is available
M2	Missing value because invalidated by data originator
V0	Valid value
V1	Valid value but comprised wholly or partially of below detection limit data
V2	Valid estimated value
V3	Valid interpolated value
V4	Valid value despite failing to meet some QC or statistical criteria
V5	Valid value but qualified because of possible contamination (e.g., pollution source, laboratory contamination source)
V6	Valid value but qualified due to non-standard sampling conditions (e.g., instrument malfunction, sample handling)
V7	Valid value but set equal to the detection limit (DL) because the measured value was below the DL

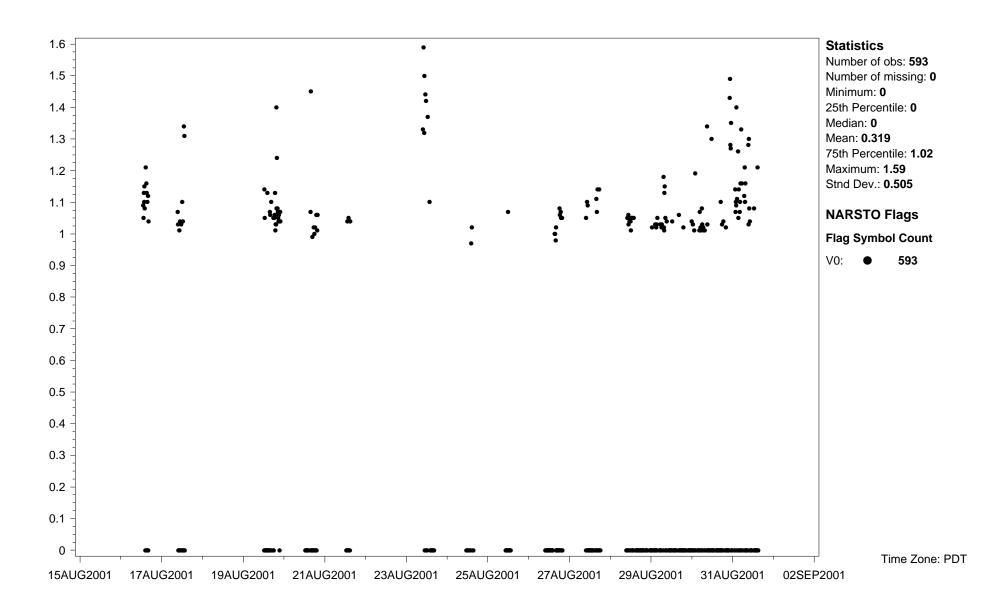
Site ID: **PC01CABCLNEL** Variable name: **Humidity: relative (sampling humidity control)** Units: % Sampling interval: **10 minute** Observation type: **Other** Field sampling or measurement principle: **Capacitance thin film humidity** Sampling humidity or temperature control: **Humidification** Sample preparation: **Temperature and humidity equilibration** Volume standardization: **30 deg. C; ambient pressure**Instrument name and model number: **HydroClip Type S** Measurement principal investigator: **Richard Leaitch**



Site ID: PC01CABCLNEL Variable name: Particles: hygroscopic growth factor Units: dimensionless Basis: Peak #1 Sampling interval: 10 minute Observation type: Particles Field sampling or measurement principle: SMPS Inlet type: Hat or hood Sampling humidity or temperature control: Humidification Sample preparation: Temperature and humidity equilibration Volume standardization: 30 deg. C; ambient pressure Sampling Height above ground (m): 5 Instrument name and model number: TSI SMPS Measurement principal investigator: Richard Leaitch



Site ID: PC01CABCLNEL Variable name: Particles: hygroscopic growth factor Units: dimensionless Basis: Peak #2 Sampling interval: 10 minute Observation type: Particles Field sampling or measurement principle: SMPS Inlet type: Hat or hood Sampling humidity or temperature control: Humidification Sample preparation: Temperature and humidity equilibration Volume standardization: 30 deg. C; ambient pressure Sampling Height above ground (m): 5 Instrument name and model number: TSI SMPS Measurement principal investigator: Richard Leaitch



Site ID: PC01CABCLNEL Variable name: Particles: size Units: nm Sampling interval: 10 minute Observation type: Particles

Particle diameter--median (UM): Varies--see variable Dry Field sampling or measurement principle: DMA Inlet type: Hat or hood

Sampling humidity or temperature control: Diffusion dryer Sample preparation: Temperature and humidity equilibration

Volume standardization: 30 deg. C; ambient pressure Sampling Height above ground (m): 5 Instrument name and model number: TSI 3071A DMA

Measurement principal investigator: Richard Leaitch

