<u>.</u>		
Original	File	Name

File #

1 PAC2001_CONV_SML_PART-CNT+O3_FL-02_PR-03_20010815_V1.csv

Dataset Key Phrases

	Principal Investigator Namelast		File Contents Descriptionshort	
Data Exchange Standard Version	first	Principal Investigator Affiliation	long	Sampling Interval As Reported in Main Table
NARSTO 2002/05/28 (2.301)	Li ; Dr. Shao-Meng	Air Quality Research Branch,	Aerosol_size+O3 ; Aerosol elemental	1 second
		Meteorological Service of Callada		

Sampling Frequency Of Data in Main Table	Quality Control Level	Organization Acronym	Organization Name	Data Usage Acknowledgement	Study Or Network Acronym
Same as sampling interval	1	ENVCAN	Environment	Meteorological Service of Canada,	PAC2001
			Canada	Environment Canada, 4905 Dufferin St.,	
				Toronto, Ont. Canada M3H 5T4	

				Co-investigator Namelast	
Study Or Network Name	Country Code	State Or Province Code	Principal Investigator Contact Information	first	Co-investigator Affiliation
PACIFIC 2001	CA (CANADA)	BC	Dr. Shao-Meng Li, 4905 Dufferin St., Toronto ON, CANADA, M3H 5T4 Shao-Meng.Li@ec.gc.ca	None ; None	Air Quality Research Branch, Meteorological Service of Canada

Name And Affiliation Of Person Who Generated This File	Date Of Last Modification To Data In Main Table	Name And Version Of Software Used To Create This File
Greg Skelton, SKELTON TECHNICAL SERVICES INC	2003/09/19	Excel/2000

1	Companion File Name	Date This File Generated		
	format And Version	archive Version Number	Table Explanation Of Zero Or Negative Values	Table Explanation Of Reported Detection Limit Values
	PAC2001_AIRCRAFT_REPORT.zip ; Adobe	2004/07/19 ; 1	Zero values for particle count measurements	Information not available
	Acrobat 4.0		represent actual values	

Table Explanation Of Reported Uncertainty	Table User Note	Table User Note2	Table User Note3	Table User Note4	Table Name	Table Focus
Information not available	None	None			Aerosol_size_distr+O3	Aloftaircraft

Site Information

Site ID	Name	State Province code	Latitude: decimal degree	Longitude: decimal degree	Sampling height above ground (m)	Ground elevation above sea level (m)	site_land_use
PC01CABCABTF	Abbotsford	BC	49.02347	-122.34375		72	
PC01CABCCONV	Convair 580	BC	-99.99999	-99.99999		-99.9	

				Co-incident		Lat
Site ID	site_location_setting	Measurement start date	Measurement end date	measurements	Study site ID	Ion accuracy
PC01CABCABTF		2001/08/14	2001/08/30			
PC01CABCCONV		2001/08/14	2001/08/30			

NARSTO Standard Flags

Flag: NARSTO	Description
M1	Missing value because no value is available
M2	Missing value because invalidated by data originator
VO	Valid value

Site ID: PC01CABCCONV Variable name: Altitude: above ground level Units: m Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Supplementary data Field sampling or measurement principle: Radar Sampling Height above ground (m): Varies--see variable Alti Instrument name and model number: Information not available Measurement principal investigator: Dr. Shao-Meng Li Detection Limit: 35 m



Site ID: PC01CABCCONV Variable name: Altitude: above mean sea level Units: m Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Supplementary data Field sampling or measurement principle: Aircraft instrumentation Sampling Height above ground (m): Varies--see variable Alti Instrument name and model number: Information not available Measurement principal investigator: Dr. Shao-Meng Li Detection Limit: 35 m



Site ID: **PC01CABCCONV** Variable name: **Humidity: relative** Units: % Sampling interval: **1 second** Sampling frequency: **Same as sampling interval** Observation type: **Supplementary data** Field sampling or measurement principle: **Aircraft instrumentation** Sampling Height above ground (m): **Varies--see variable Alti** Measurement principal investigator: **Dr. Shao-Meng Li**



Site ID: PC01CABCCONV Variable name: Latitude: decimal degrees Units: decimal degree Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Supplementary data Field sampling or measurement principle: GPS Sampling Height above ground (m): Varies--see variable Alti Instrument name and model number: North Star and Trimble GPS Measurement principal investigator: Dr. Shao-Meng Li Detection Limit: 15 m



Site ID: PC01CABCCONV Variable name: Longitude: decimal degrees Units: decimal degree Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Supplementary data Field sampling or measurement principle: GPS Sampling Height above ground (m): Varies--see variable Alti Instrument name and model number: North Star and Trimble GPS Measurement principal investigator: Dr. Shao-Meng Li Detection Limit: 15 m



Site ID: PC01CABCCONV Variable name: Mixing ratio Units: g/kg Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Supplementary data Field sampling or measurement principle: Ultraviolet absorption Sampling Height above ground (m): Varies--see variable Alti Measurement principal investigator: Dr. Shao-Meng Li



Site ID: PC01CABCCONV Variable name: Ozone Units: ppbv Sampling interval: 1 second Sampling frequency: Same as sampling interval CAS ID: C10028-15-6 Observation type: Gas Field sampling or measurement principle: Ultraviolet absorption Inlet type: Filter in front of sampling line Blank Correction: Not blank corrected Sampling Height above ground (m): Varies--see variable Alti Instrument name and model number: TECO 49 Measurement principal investigator: Dr. Shao-Meng Li Detection Limit: 2 to 3



Site ID: PC01CABCCONV Variable name: Particles: count Units: number/cm3 Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Particles Field sampling or measurement principle: Optical particle counter/size spectrometer Inlet type: Isokinetic Sampling humidity or temperature control: Temperature controlled Sampling Height above ground (m): Varies--see variable Alti Instrument name and model number: Passive Cavity Aerosol Spectrometer Probe Measurement principal investigator: Dr. Shao-Meng Li Detection Limit: Not available



Site ID: PC01CABCCONV Variable name: Particles: count Units: number/cm3 Basis: channel 1 Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Particles Particle diameter--lower bound (UM): 0.130 Particle diameter--upper bound (UM): 0.150 Particle diameter--median (UM): 0.140 Field sampling or measurement principle: Optical particle counter/size spectrometer Inlet type: Isokinetic Sampling humidity or temperature control: Temperature controlled Sampling Height above ground (m): Varies--see variable Alti Instrument name and model number: Passive Cavity Aerosol Spectrometer Probe Measurement principal investigator: Dr. Shao-Meng Li Detection Limit: Not available



Site ID: PC01CABCCONV Variable name: Particles: count Units: number/cm3 Basis: channel 10 Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Particles Particle diameter--lower bound (UM): 0.730 Particle diameter--upper bound (UM): 0.930 Particle diameter--median (UM): 0.830 Field sampling or measurement principle: Optical particle counter/size spectrometer Inlet type: Isokinetic Sampling humidity or temperature control: Temperature controlled Sampling Height above ground (m): Varies--see variable Alti Instrument name and model number: Passive Cavity Aerosol Spectrometer Probe Measurement principal investigator: Dr. Shao-Meng Li Detection Limit: Not available



Site ID: PC01CABCCONV Variable name: Particles: count Units: number/cm3 Basis: channel 11 Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Particles Particle diameter--lower bound (UM): 0.930 Particle diameter--upper bound (UM): 1.200 Particle diameter--median (UM): 1.065 Field sampling or measurement principle: Optical particle counter/size spectrometer Inlet type: Isokinetic Sampling humidity or temperature control: Temperature controlled Sampling Height above ground (m): Varies--see variable Alti Instrument name and model number: Passive Cavity Aerosol Spectrometer Probe Measurement principal investigator: Dr. Shao-Meng Li Detection Limit: Not available



Site ID: PC01CABCCONV Variable name: Particles: count Units: number/cm3 Basis: channel 12 Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Particles Particle diameter--lower bound (UM): 1.200 Particle diameter--upper bound (UM): 1.500 Particle diameter--median (UM): 1.350 Field sampling or measurement principle: Optical particle counter/size spectrometer Inlet type: Isokinetic Sampling humidity or temperature control: Temperature controlled Sampling Height above ground (m): Varies--see variable Alti Instrument name and model number: Passive Cavity Aerosol Spectrometer Probe Measurement principal investigator: Dr. Shao-Meng Li Detection Limit: Not available



Site ID: PC01CABCCONV Variable name: Particles: count Units: number/cm3 Basis: channel 13 Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Particles Particle diameter--lower bound (UM): 1.500 Particle diameter--upper bound (UM): 2.000 Particle diameter--median (UM): 1.750 Field sampling or measurement principle: Optical particle counter/size spectrometer Inlet type: Isokinetic Sampling humidity or temperature control: Temperature controlled Sampling Height above ground (m): Varies--see variable Alti Instrument name and model number: Passive Cavity Aerosol Spectrometer Probe Measurement principal investigator: Dr. Shao-Meng Li Detection Limit: Not available



Site ID: PC01CABCCONV Variable name: Particles: count Units: number/cm3 Basis: channel 14 Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Particles Particle diameter--lower bound (UM): 2.000 Particle diameter--upper bound (UM): 2.500 Particle diameter--median (UM): 2.250 Field sampling or measurement principle: Optical particle counter/size spectrometer Inlet type: Isokinetic Sampling humidity or temperature control: Temperature controlled Sampling Height above ground (m): Varies--see variable Alti Instrument name and model number: Passive Cavity Aerosol Spectrometer Probe Measurement principal investigator: Dr. Shao-Meng Li Detection Limit: Not available



Site ID: PC01CABCCONV Variable name: Particles: count Units: number/cm3 Basis: channel 15 Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Particles Particle diameter--lower bound (UM): 2.500 Particle diameter--upper bound (UM): 3.000 Particle diameter--median (UM): 2.750 Field sampling or measurement principle: Optical particle counter/size spectrometer Inlet type: Isokinetic Sampling humidity or temperature control: Temperature controlled Sampling Height above ground (m): Varies--see variable Alti Instrument name and model number: Passive Cavity Aerosol Spectrometer Probe Measurement principal investigator: Dr. Shao-Meng Li Detection Limit: Not available



Site ID: PC01CABCCONV Variable name: Particles: count Units: number/cm3 Basis: channel 2 Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Particles Particle diameter--lower bound (UM): 0.150 Particle diameter--upper bound (UM): 0.165 Particle diameter--median (UM): 0.157 Field sampling or measurement principle: Optical particle counter/size spectrometer Inlet type: Isokinetic Sampling humidity or temperature control: Temperature controlled Sampling Height above ground (m): Varies--see variable Alti Instrument name and model number: Passive Cavity Aerosol Spectrometer Probe Measurement principal investigator: Dr. Shao-Meng Li Detection Limit: Not available



Site ID: PC01CABCCONV Variable name: Particles: count Units: number/cm3 Basis: channel 3 Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Particles Particle diameter--lower bound (UM): 0.165 Particle diameter--upper bound (UM): 0.190 Particle diameter--median (UM): 0.178 Field sampling or measurement principle: Optical particle counter/size spectrometer Inlet type: Isokinetic Sampling humidity or temperature control: Temperature controlled Sampling Height above ground (m): Varies--see variable Alti Instrument name and model number: Passive Cavity Aerosol Spectrometer Probe Measurement principal investigator: Dr. Shao-Meng Li Detection Limit: Not available



Site ID: PC01CABCCONV Variable name: Particles: count Units: number/cm3 Basis: channel 4 Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Particles Particle diameter--lower bound (UM): 0.190 Particle diameter--upper bound (UM): 0.220 Particle diameter--median (UM): 0.205 Field sampling or measurement principle: Optical particle counter/size spectrometer Inlet type: Isokinetic Sampling humidity or temperature control: Temperature controlled Sampling Height above ground (m): Varies--see variable Alti Instrument name and model number: Passive Cavity Aerosol Spectrometer Probe Measurement principal investigator: Dr. Shao-Meng Li Detection Limit: Not available



Site ID: PC01CABCCONV Variable name: Particles: count Units: number/cm3 Basis: channel 5 Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Particles Particle diameter--lower bound (UM): 0.220 Particle diameter--upper bound (UM): 0.263 Particle diameter--median (UM): 0.242 Field sampling or measurement principle: Optical particle counter/size spectrometer Inlet type: Isokinetic Sampling humidity or temperature control: Temperature controlled Sampling Height above ground (m): Varies--see variable Alti Instrument name and model number: Passive Cavity Aerosol Spectrometer Probe Measurement principal investigator: Dr. Shao-Meng Li Detection Limit: Not available



Site ID: PC01CABCCONV Variable name: Particles: count Units: number/cm3 Basis: channel 6 Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Particles Particle diameter--lower bound (UM): 0.263 Particle diameter--upper bound (UM): 0.340 Particle diameter--median (UM): 0.302 Field sampling or measurement principle: Optical particle counter/size spectrometer Inlet type: Isokinetic Sampling humidity or temperature control: Temperature controlled Sampling Height above ground (m): Varies--see variable Alti Instrument name and model number: Passive Cavity Aerosol Spectrometer Probe Measurement principal investigator: Dr. Shao-Meng Li Detection Limit: Not available



Site ID: PC01CABCCONV Variable name: Particles: count Units: number/cm3 Basis: channel 7 Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Particles Particle diameter--lower bound (UM): 0.340 Particle diameter--upper bound (UM): 0.470 Particle diameter--median (UM): 0.405 Field sampling or measurement principle: Optical particle counter/size spectrometer Inlet type: Isokinetic Sampling humidity or temperature control: Temperature controlled Sampling Height above ground (m): Varies--see variable Alti Instrument name and model number: Passive Cavity Aerosol Spectrometer Probe Measurement principal investigator: Dr. Shao-Meng Li Detection Limit: Not available



Site ID: PC01CABCCONV Variable name: Particles: count Units: number/cm3 Basis: channel 8 Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Particles Particle diameter--lower bound (UM): 0.470 Particle diameter--upper bound (UM): 0.590 Particle diameter--median (UM): 0.530 Field sampling or measurement principle: Optical particle counter/size spectrometer Inlet type: Isokinetic Sampling humidity or temperature control: Temperature controlled Sampling Height above ground (m): Varies--see variable Alti Instrument name and model number: Passive Cavity Aerosol Spectrometer Probe Measurement principal investigator: Dr. Shao-Meng Li Detection Limit: Not available



Site ID: PC01CABCCONV Variable name: Particles: count Units: number/cm3 Basis: channel 9 Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Particles Particle diameter--lower bound (UM): 0.590 Particle diameter--upper bound (UM): 0.730 Particle diameter--median (UM): 0.660 Field sampling or measurement principle: Optical particle counter/size spectrometer Inlet type: Isokinetic Sampling humidity or temperature control: Temperature controlled Sampling Height above ground (m): Varies--see variable Alti Instrument name and model number: Passive Cavity Aerosol Spectrometer Probe Measurement principal investigator: Dr. Shao-Meng Li Detection Limit: Not available



Site ID: PC01CABCCONV Variable name: Particles: mass Units: ug/m3 Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Particles Field sampling or measurement principle: Optical particle counter/size spectrometer Inlet type: Isokinetic Sampling humidity or temperature control: Temperature controlled Sampling Height above ground (m): Varies--see variable Alti Instrument name and model number: Passive Cavity Aerosol Spectrometer Probe Measurement principal investigator: Dr. Shao-Meng Li Detection Limit: Not available



Site ID: PC01CABCCONV Variable name: Particles: size Units: um Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Particles Field sampling or measurement principle: Optical particle counter/size spectrometer Inlet type: Isokinetic Sampling humidity or temperature control: Temperature controlled Sampling Height above ground (m): Varies--see variable Alti Instrument name and model number: Passive Cavity Aerosol Spectrometer Probe Measurement principal investigator: Dr. Shao-Meng Li Detection Limit: Not available



Site ID: PC01CABCCONV Variable name: Pressure: atmospheric barometric Units: mb Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Supplementary data Field sampling or measurement principle: Aircraft instrumentation Sampling Height above ground (m): Varies--see variable Alti Instrument name and model number: Information not available Measurement principal investigator: Dr. Shao-Meng Li



Site ID: PC01CABCCONV Variable name: Temperature: air Units: deg C Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Supplementary data Field sampling or measurement principle: Ultraviolet absorption Sampling Height above ground (m): Varies--see variable Alti Instrument name and model number: Rosemount Static Temperature Measurement principal investigator: Dr. Shao-Meng Li Detection Limit: 2 to 3



Site ID: PC01CABCCONV Variable name: Temperature: dew point Units: deg C Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Supplementary data Field sampling or measurement principle: Aircraft instrumentation Sampling Height above ground (m): Varies--see variable Alti Instrument name and model number: EG+G Hygrometer Measurement principal investigator: Dr. Shao-Meng Li Detection Limit: Not available



Site ID: PC01CABCCONV Variable name: Temperature: potential equivalent Units: K Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Supplementary data Field sampling or measurement principle: Aircraft instrumentation Sampling Height above ground (m): Varies--see variable Alti Measurement principal investigator: Dr. Shao-Meng Li

Site Name: Convair 580, British Columbia Flight ID: Flight_02_P03 Start Date: 2001-08-14 End Date: 2001-08-30



Temperature: potential equivalent (K)

Site ID: PC01CABCCONV Variable name: Temperature: pseudoequivalent potential Units: K Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Supplementary data Field sampling or measurement principle: Aircraft instrumentation Sampling Height above ground (m): Varies--see variable Alti Measurement principal investigator: Dr. Shao-Meng Li



Site ID: PC01CABCCONV Variable name: Temperature: surface Units: deg C Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Supplementary data Field sampling or measurement principle: Radiometer Sampling Height above ground (m): Varies--see variable Alti Instrument name and model number: Barns RadiometerPRT-5 Measurement principal investigator: Dr. Shao-Meng Li



Site ID: PC01CABCCONV Variable name: Temperature: wet-equivalent potential Units: K Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Supplementary data Field sampling or measurement principle: Aircraft instrumentation Sampling Height above ground (m): Varies--see variable Alti Measurement principal investigator: Dr. Shao-Meng Li



Site ID: PC01CABCCONV Variable name: Wind direction: horizontal resultant vector mean Units: degree from true north Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Supplementary data Field sampling or measurement principle: Aircraft instrumentation Sampling Height above ground (m): Varies--see variable Alti Instrument name and model number: Information not available Measurement principal investigator: Dr. Shao-Meng Li



Site ID: PC01CABCCONV Variable name: Wind speed: horizontal scalar mean Units: m/s Sampling interval: 1 second Sampling frequency: Same as sampling interval Observation type: Supplementary data Field sampling or measurement principle: Aircraft instrumentation Sampling Height above ground (m): Varies--see variable Alti Instrument name and model number: Information not available Measurement principal investigator: Dr. Shao-Meng Li

