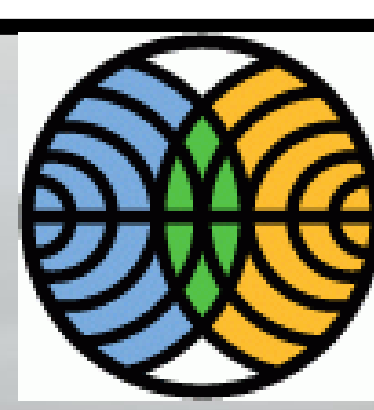
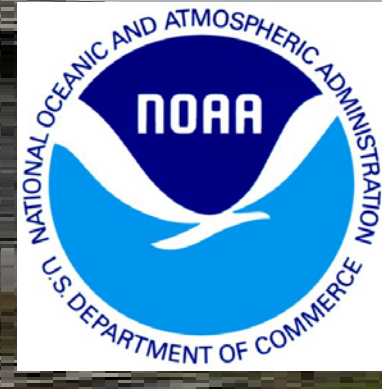


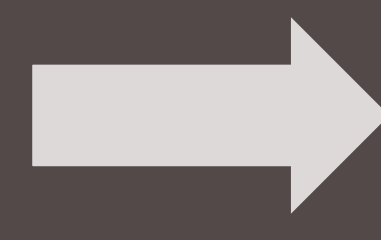
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Datagrams: Tiksi Aerodynamic Particle Sizer



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10.31.112.109

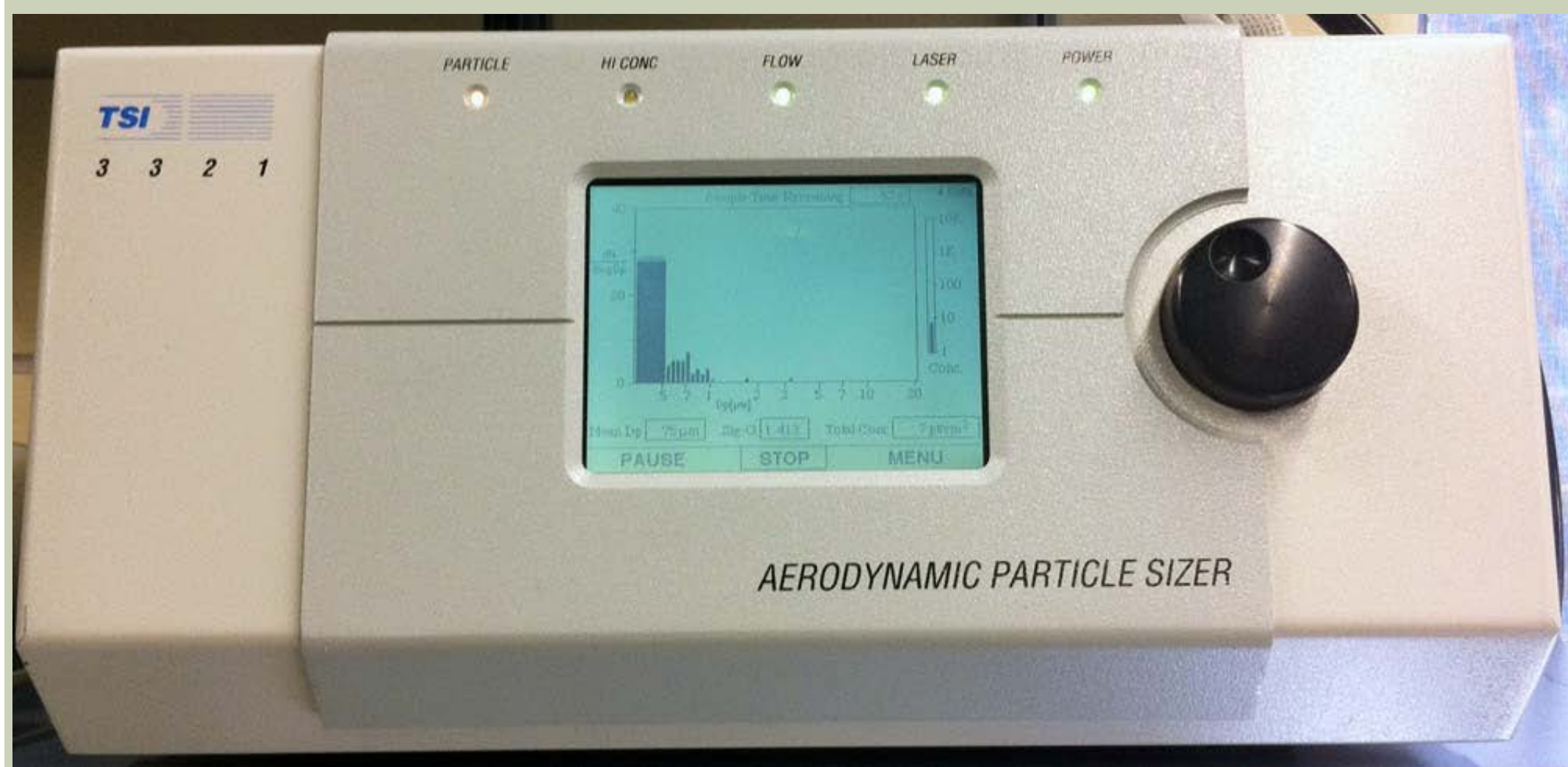
Location: Clean Air Facility Central Room
 File name: Tiksi_APS_YYYY-MM-DD.csv
 File location in Tiksi:

System Info:	Datetime_UTC+10:00 hour YYYY-MM-DD HH:MM:SS	Measurement interval (s)	Measurement interval (s)	Inlet pressure (Pa)	Sheath delta P	Total delta P	Aerosol flow (lpm)	Sheath flow (lpm)	Total flow (lpm)	Box temperature (K)	APD detector temperature (K)	Inlet temperature (K)	Diameter 1 (nm)	...	Diameter 53 (nm)
	2011-04-11 00:02:00	300	300	984	117.75	129.34	1	3.98	4.98	305.2	302.7	294.8	487	...	20535
Measured Aerodynamic Aerosol # Size Distribution Data	Datetime (UTC+10:00 hour) YYYY-MM-DD HH:MM:SS	Checksum	Aerodynamic data record = D	Mode information (ADX=averaging autocal mode)	Time index 0	Hex value for status flag (0=ok)	Sample time (s)	Dead time (ms)	Number of single hump events	Number of 3+ hump events	Number of timer overflow events	Total particles measured	Concentration 1	...	Concentration 53
	2011-04-11 00:03:00	1F5C	D	ADX	0	0	300	297994	14285	375	0	15526	3088	...	0
	2011-04-11 00:08:00	1E97	D	ADX	0	0	300	298265	17704	458	0	15710	3056	...	0
	2011-04-11 00:13:00	1F64	D	ADX	0	0	300	298639	26070	576	0	16277	3508	...	0

Data Diagnostics Logger Info

Instrument:

TSI Aerodynamic particle sizer (APS), model 3321,
 Size ranges: 500-10000 nm



Tiksi Data Center

NOAA

Processing

Quicklooks

FTP File locations at NOAA:

From Tiksi Data Center to:
[/home/ari-Aerosol/APS/Incoming/](#)
 then transferred to:
[/storage/arctic/tiksi/aerosol/aps/raw/YYYY/](#)

Example Plots:

- Modify Data Format:
1. Include header information
 2. Include Day-Fraction (time)
 3. Standardize file naming convention

Ingest

Folder Name	File Name	FTP Location
Raw	Tiksi_APS_YYYY-MM-DD.csv	ftp://ftp.etl.noaa.gov/psd3/arctic/tiksi/aerosol/aps/raw/YYYY/
Ingest		ftp://ftp.etl.noaa.gov/psd3/arctic/tiksi/aerosol/aps/ingest/YYYY/
Products		ftp://ftp.etl.noaa.gov/psd3/arctic/tiksi/aerosol/aps/products/YYYY/
Quicklooks		ftp://ftp.etl.noaa.gov/psd3/arctic/tiksi/aerosol/aps/quicklooks/YYYY/
Example:		ftp://ftp.etl.noaa.gov/psd3/arctic/tiksi/aerosol/aps/products/YYYY/

Standardized Data Format:
 Definitions:
 sss - site identifier (e.g., tik)
 inst - base instrument abbreviation
 Fn - facility abbreviation (e.g., caf[0:1], cow[0:1], twr[0:1])
 data qualifier – daily or monthly
 data processing level - raw=c1, ingest=c2, products=c3

Product

Example Product File:

IASOA Portal

Home:
<http://www.esrl.noaa.gov/psd/iasoa/>
 Data:
<http://www.esrl.noaa.gov/psd/iasoa/dataataglance>