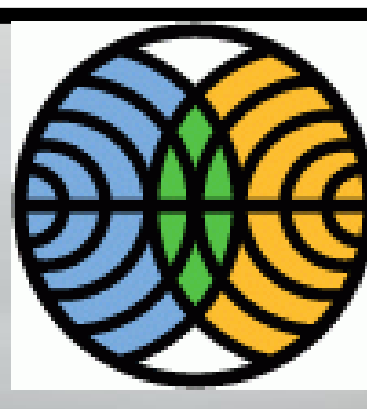
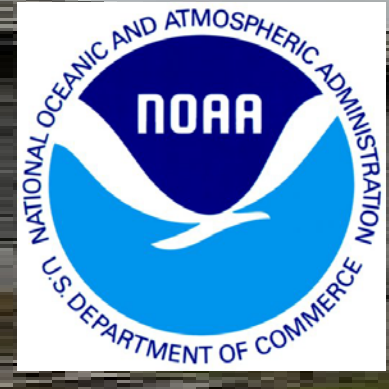


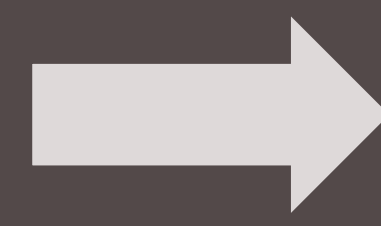
NOAA Contacts
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Datagrams: Tiksi nephelometer



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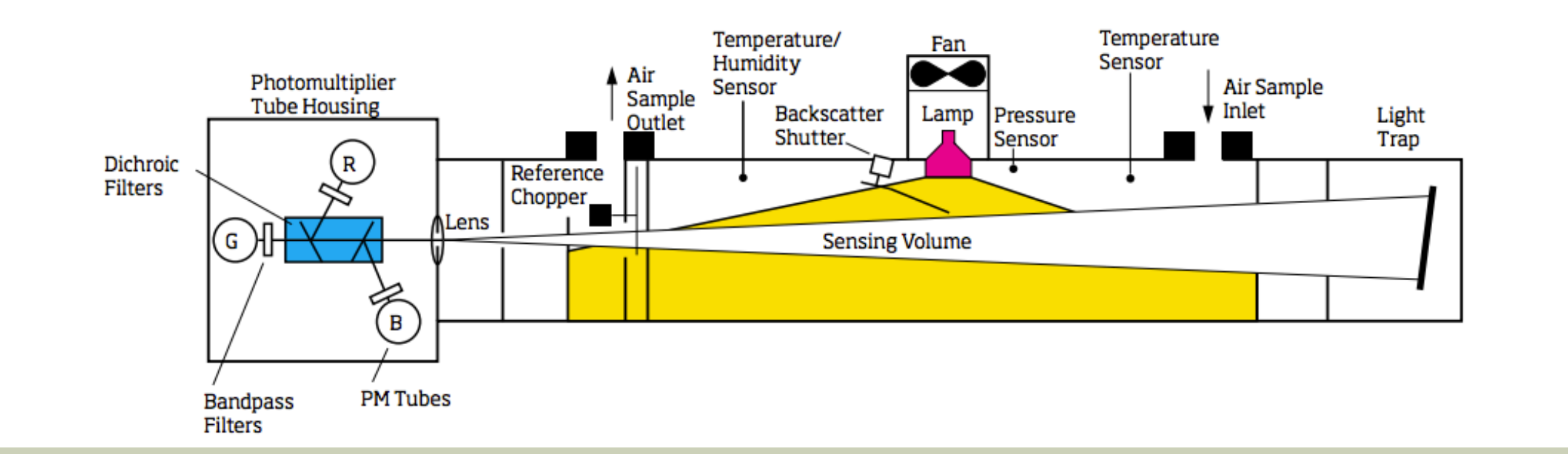
10.31.112.109

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

Data units/column header information on next page →

Instrument:

TSI integrating Nephelometer, model 3563



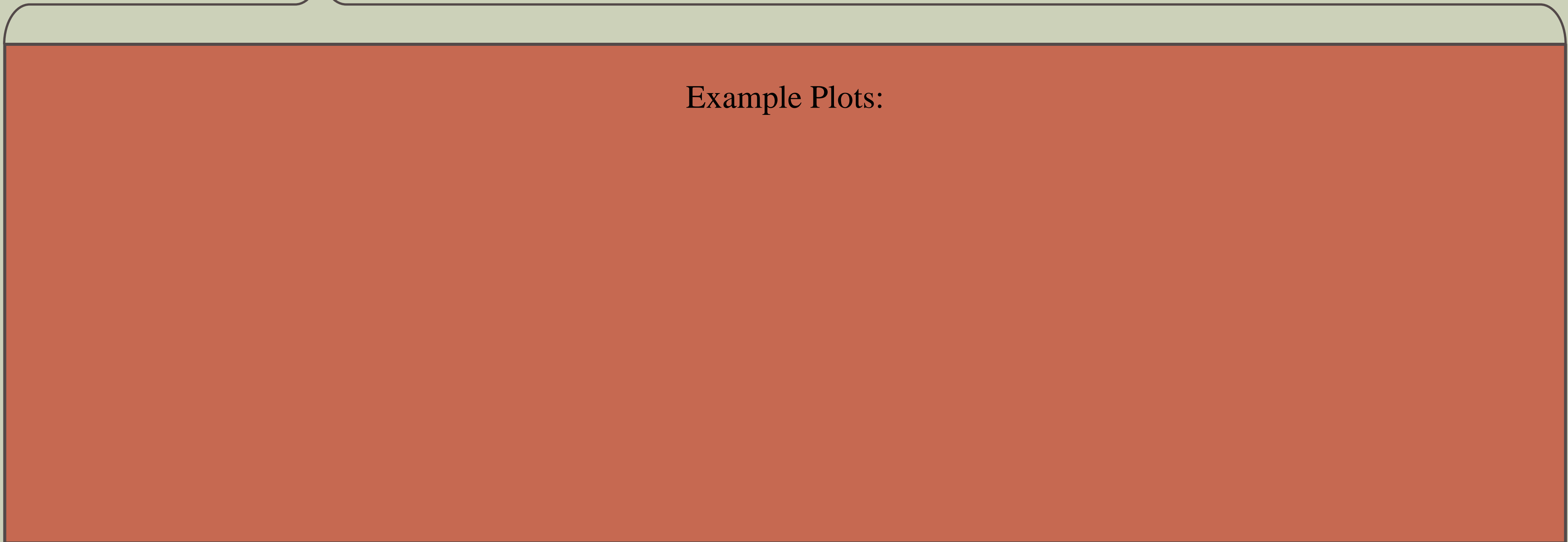
Tiksi Data Center

NOAA

Processing

Quicklooks

FTP File locations at NOAA:
 From Tiksi Data Center to:
[Home: /arctic/Aerosol/Nephelometer/Incoming/](#)
 then transferred to:
[Storage: /arctic/tiksi/aerosol/nephelometer/raw/YYYY/](#)



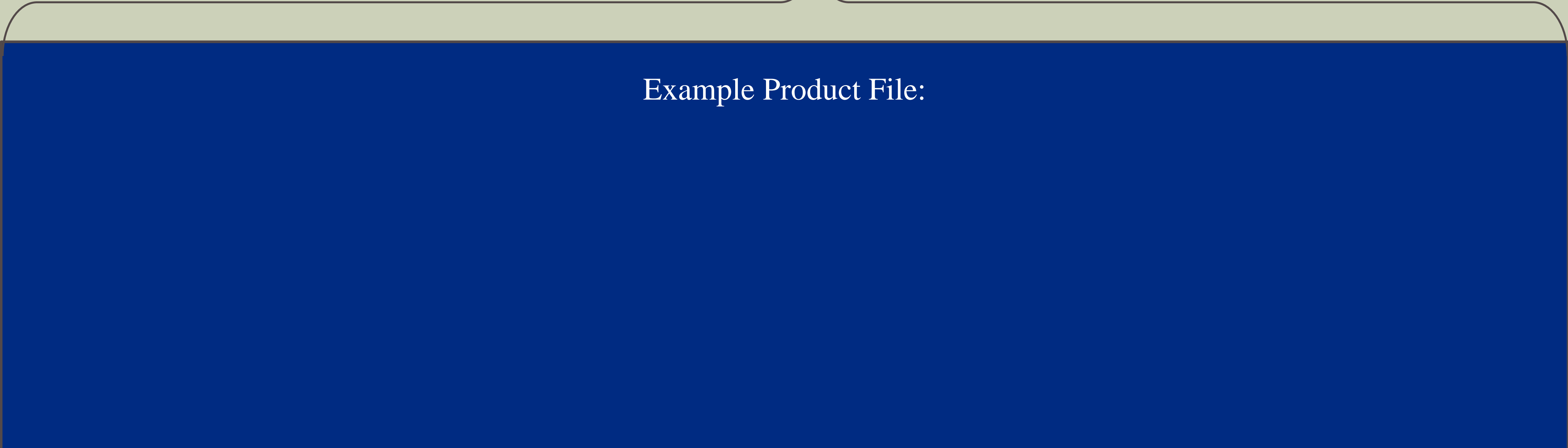
Modify Data Format:
 1. Include header information
 2. Include Day-Fraction (time)
 3. Standardize file naming convention

Ingest

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

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

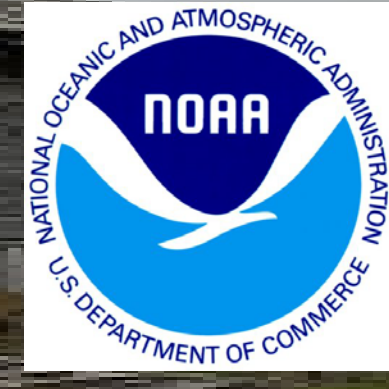
Product



IASOA Portal

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

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 tiksi_center@aari.ru

Data units/column header information

*1st letter (N=normal, Z=zero, B=blanking mode), 2nd letter (T=total, B=backscatter mode), 3rd letter (X), 4th letter (X)

Row 1: Time records											
Date time					T	Year	Month	Day	Hour	Minute	Second
2013-07-08 00:00:25					T	2013	07	08	02	00	04
Row 2: Photon Count Records											
Date time	B (blue wavelength, 450 nm)	Photon counts from calibrator (total scatter)	Photon counts from measure (total scatter)	Photon counts from dark	Revolutions of chopper for total scatter measurement	Photon counts from calibrator (backscatter)	Photon counts from measure (backscatter)	Photon counts from dark (backscatter)	Revolutions of chopper for backscatter measurement	Pressure (mbar)	Sample temperature (K)
2013-07-08 00:00:25	B	549978	20221	16	690	279310	10028	7	689	1002.4	303.9
Row 3: Photon Count Records											
Date time	G (green wavelength, 550 nm)	Photon counts from calibrator (total scatter)	Photon counts from measure (total scatter)	Photon counts from dark	Revolutions of chopper for total scatter measurement	Photon counts from calibrator (backscatter)	Photon counts from measure (backscatter)	Photon counts from dark (backscatter)	Revolutions of chopper for backscatter measurement	Pressure (mbar)	Sample temperature (K)
2013-07-08 00:00:25	G	796042	13599	30	690	406894	6610	18	689	1002.4	303.9
Row 4: Photon Count Records											
Date time	R (red wavelength, 700 nm)	Photon counts from calibrator (total scatter)	Photon counts from measure (total scatter)	Photon counts from dark	Revolutions of chopper for total scatter measurement	Photon counts from calibrator (backscatter)	Photon counts from measure (backscatter)	Photon counts from dark (backscatter)	Revolutions of chopper for backscatter measurement	Pressure (mbar)	Sample temperature (K)
2013-07-08 00:00:25	R	544928	10193	584	690	275040	7807	589	689	1002.4	303.9
Row 5: Data Records											
Date time	D (data record)	Current mode*	Time remaining in current state (s)	Scattering coefficient in blue (Mm-1)	Scattering coefficient in green (Mm-1)	Scattering coefficient in red (Mm-1)	Backscattering coefficient in blue (Mm-1)	Backscattering coefficient in green (Mm-1)	Backscattering coefficient in red (Mm-1)		
2013-07-08 00:00:25	D	NBXX	3217	6.285e-7	2.163e-7	2.006e-7	3.810e-9	1.059e-7	-5.142e-8		
Row 6: Auxiliary Status Record											
Date time	Y	Sensitivity based on green channel (proton frequency)	Barometric pressure (mbar)	Sample temperature (K)	Inlet temperature (K)	Relative humidity (%)	Lamp voltage (V)	Lamp current (A)	BNC input voltage (mV)	Status flags (hex) (0000=normal)	
2013-07-08 00:00:25	Y	236862	1002.4	303.9	300.3	32.1	13.2	5.7	0	0000	
Row 7: Zero Background Data Record											
Date time	Z	Scattering value from last zero (blue)	Scattering value from last zero (green)	Scattering value from last zero (red)	Scattering value from last zero (backscatter blue)	Scattering value from last zero (backscatter green)	Scattering value from last zero (backscatter red)	Rayleigh scattering value from last zero (blue)	Rayleigh scattering value from last zero (green)	Rayleigh scattering value from last zero (red)	
2013-07-08 00:00:25	Z	544928	10193	584	690	275040	7807	589	689	1002.4	

Data	Diagnostics	Logger Info
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