NOAA Contacts
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Datagrams: Tiksi fluxtower – Sonic and Licor

Roshydromet Contacts
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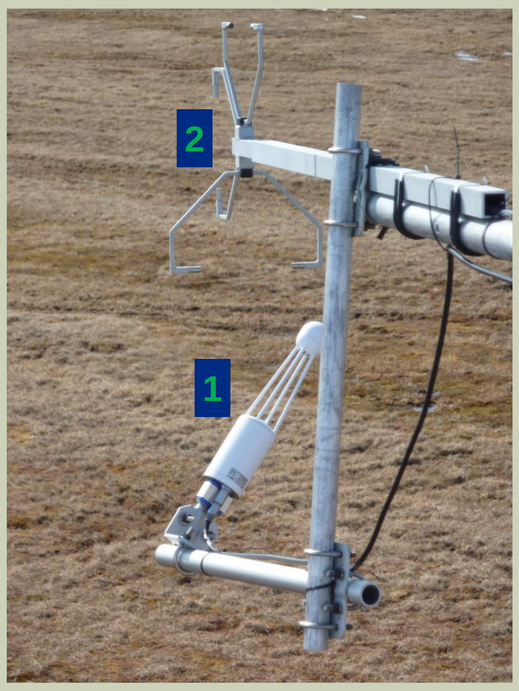
Location: Clean Air Facility Tower Office
File name sonic/licor: tik(0-3)YYJJJHH_raw.txt (as of 2/11/14)
File location in Tiksi:E:\(sonic/licor)

Licor						Sonic Anemometer				
Time Stamp (Milliseconds) [UTC]	Identifier	co_2 # density (mmol/m^3)	h_2o # density (mmol/m^3)	Temp (degC)	Pressure (kPa)	Time Stamp (Milliseconds) [UTC]	U-axis (m/s)	V-axis (m/s)	W-axis (m/s)	Temp (degC)
0000043	247	20.9387	138.3	-15.94	101.9	0000007	-541	417	-64	395
0000153	247	20.896	138.256	-15.94	101.9	0000101	-508	426	-46	380
0000247	247	20.9635	138.242	-15.94	102	0000195	-496	435	-33	373

Data | Diagnostics | Logger Info



Sonic Height Level	Serial # of Board	Serial # of Housing	COM port	Filename Identifier
3 meters	SN 120803	SN 090503	COM6	tik0
9 meters	SN 120802	SN 090501	COM5	tik1
15 meters	N/A	SN 090502	COM3	tik2
Licor Height Level	Instrument Serial #	Serial # of Housing	COM port	Filename Identifier
9 meters	75H-1694	75H-1694	COM4	tik3

History of Sonic(s) Location and Maintenance at the Tiksi Station Located Here:
ftp://ftp.etl.noaa.gov/psd3/arctic/tiksi/surface_properties/fluxtower/sonic/9meter/0_docs/Sonic_Notebook.xlsx

Instrument Details

Specifications	1	2
Measurement	Licor: CO_2, H_2O, temp, pressure	Sonic: Wind direction, temp
Instrument Manufacturer	Licor	ATI
Type	7500	SAIK-3K
Height Location on Tower	a. 9m	a. 3m b. 9m c. 15m
Instrument Specifications	n/a	n/a
Measurement Unit	CO_2: mmol/m^3 H_2O: mmol/m^3 Temp: Degree Celsius Pressure: kPa	Direction: m/s Temp: Degree Celsius
Calibration factors (y/n/value)	no	no
Unit after Applied Calibration or Conversion	CO_2: mmol/m^3 H_2O: mmol/m^3 Temp: Degree Celsius Pressure: kPa	Direction: m/s Temp: Degree Celsius
Additional Corrections Applied (y/n/explain)	no	no

Standardized Data Format:
Definitions:
sss - site identifier (e.g., tik)
inst - base instrument abbreviation
Fn - facility abbreviation (e.g., caf, cow, twr)
data processing level - ingest=a1, products=b1

IASOA Portal

Home:
http://www.esrl.noaa.gov/psd/iasoa/
Data:
http://www.esrl.noaa.gov/psd/iasoa/dataatglance

Tiksi Data Center

Sonic FTP File locations at NOAA:
From Tiksi Data Center to:
/home/aari/FLUXTOWER/incoming/sonic/tik[0-2]/
Then transferred to:
/storage/arctic/tiksi/surface_properties/fluxtower/sonic/[3,9,15]meter/raw/YYYY/

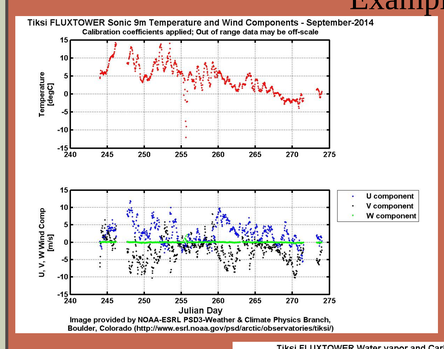
Licor FTP File locations at NOAA:
From Tiksi Data Center to:
/home/aari/FLUXTOWER/incoming/licor/
Then transferred to:
/storage/arctic/tiksi/surface_properties/fluxtower/licor/raw/YYYY/

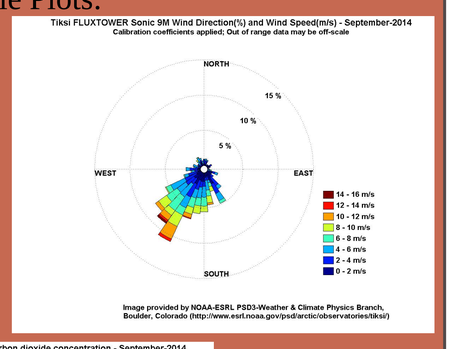
NOAA

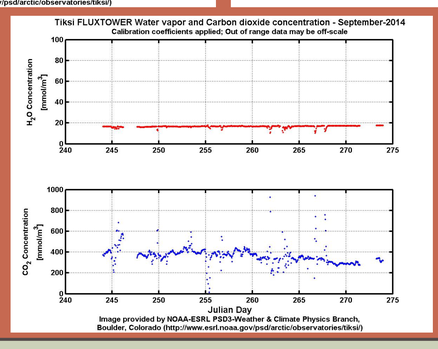
Processing

Quicklooks

Example Plots:







Ingest

Folder Name	File Name	FTP Location
Raw		ftp://ftp.etl.noaa.gov/psd3/arctic/tiksi/surface_properties/fluxtower/[sonic,licor]/raw/YYYY/
Ingest		ftp://ftp.etl.noaa.gov/psd3/arctic/tiksi/surface_properties/fluxtower/[sonic,licor]/ingest/YYYY/
Products		ftp://ftp.etl.noaa.gov/psd3/arctic/tiksi/surface_properties/fluxtower/[sonic,licor]/products/YYYY/
Quicklooks		ftp://ftp.etl.noaa.gov/psd3/arctic/tiksi/surface_properties/fluxtower/[sonic,licor]/quicklooks/YYYY/

Product

Example Product File:

Official Data Submission to an Archive | Data Cable | rsync | NOAA server