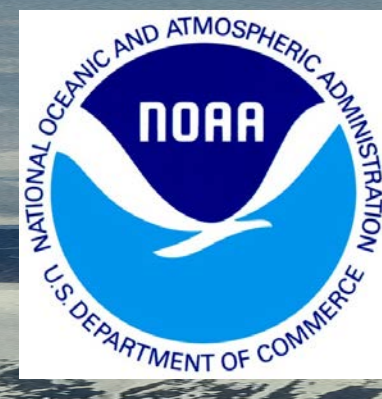


Contacts

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Datagrams:  
**Eureka**



**Lufft Wspeed/Wdirection & Soil Met**

Contacts

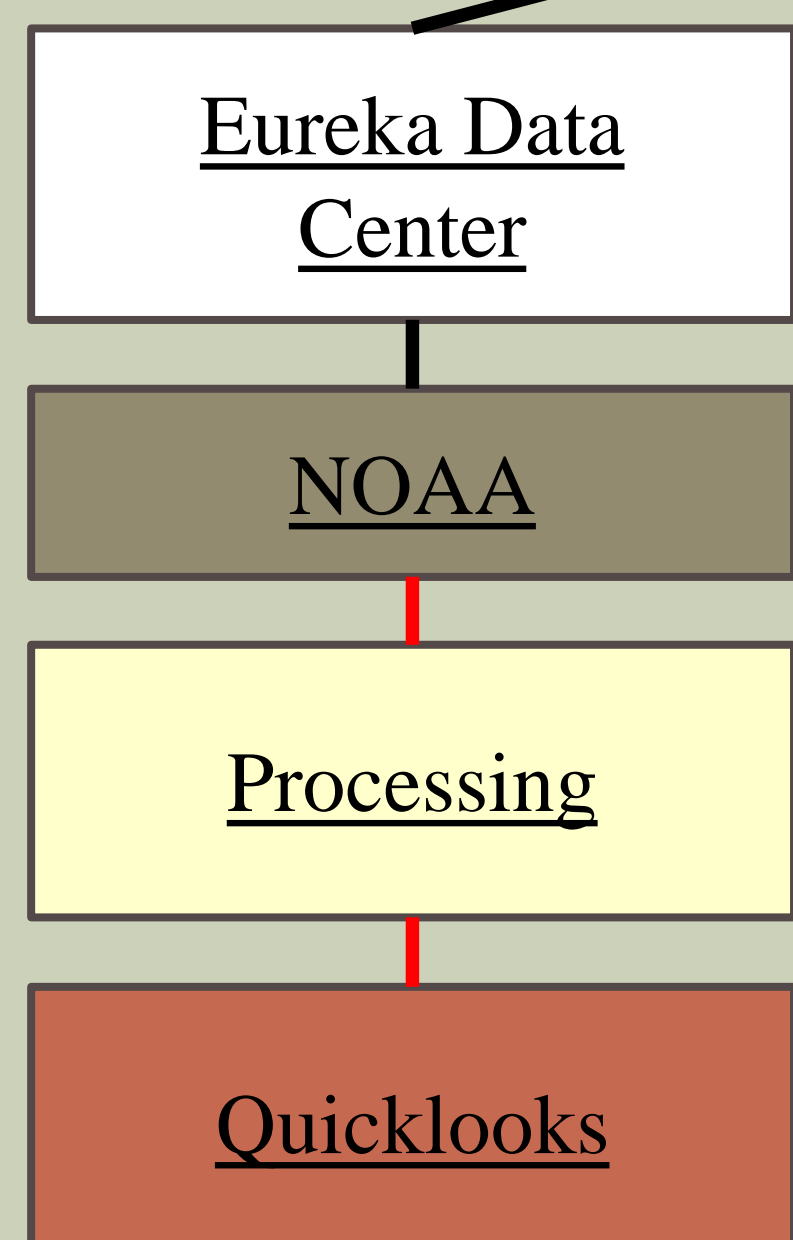
Project Lead: Taneil Uttal  
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 pierre.fogal@utoronto.ca  
 Scientist, Technician: Christopher Cox  
 Christopher.j.cox@noaa.gov

File name: (as of 1/11/17): eut5YYJJhh\_raw.txt

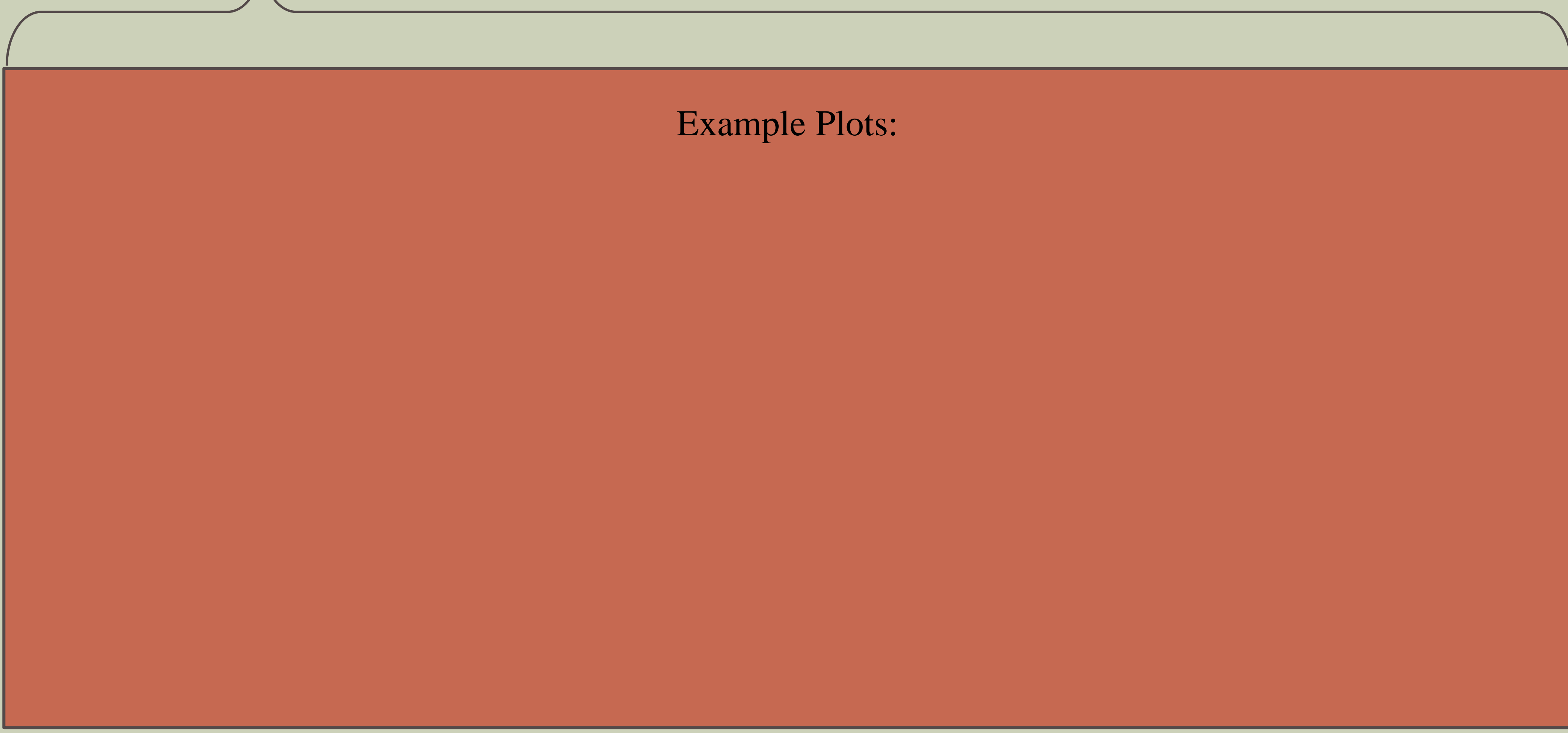
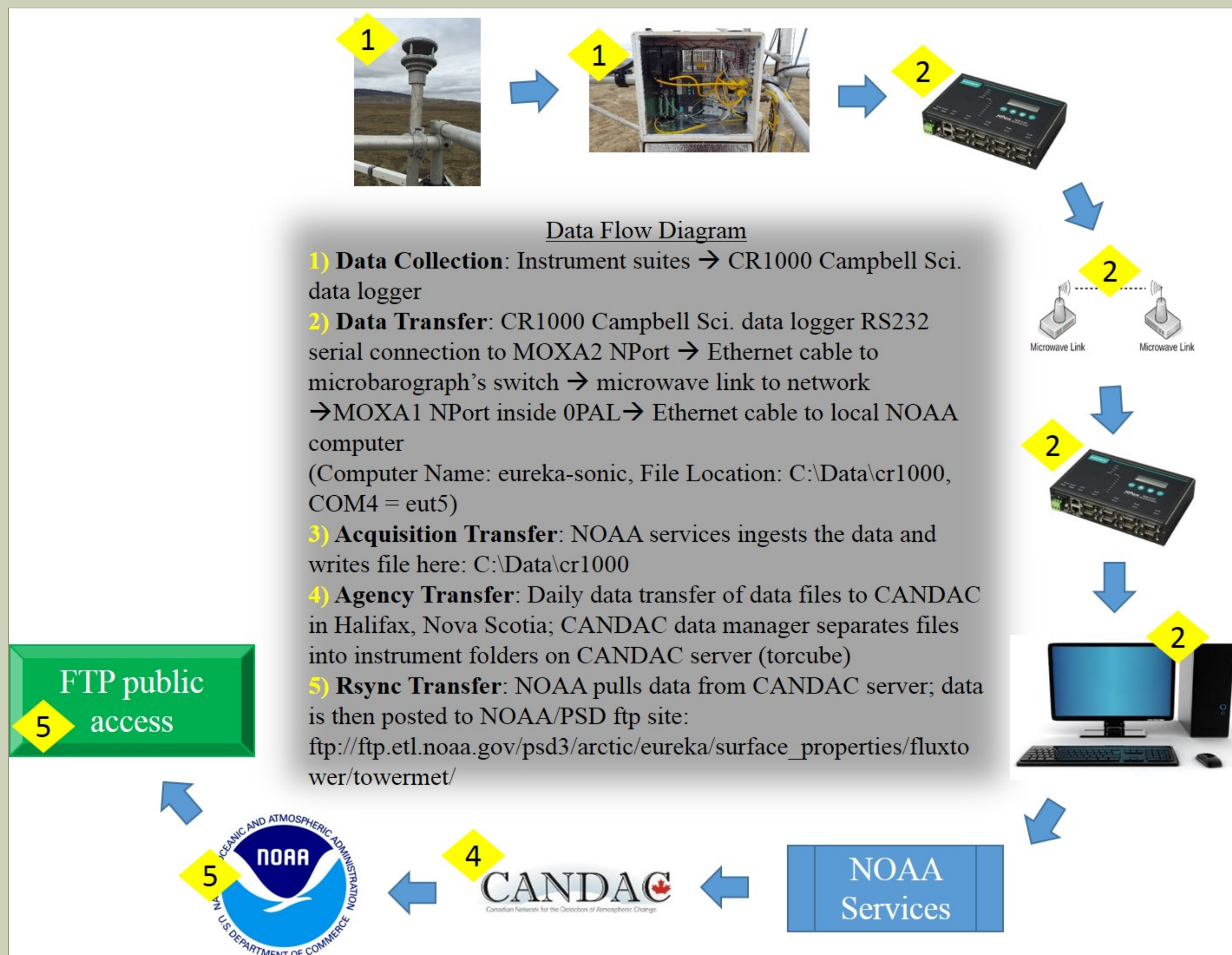
UTC time [mmssuuu]	Logger Temp [degC]	Battery [V]	6m Lufft temp [degC]	6m Lufft wspeed actual [m/s]	6m Lufft wdir actual [deg]	6m wdir vector average [deg]	6m Lufft pressure [mb]	6m Lufft wind quality [%]	6m Lufft wind error	6m Lufft air error	6m top heating plate temp [degC]	6m bottom heating plate temp [degC]
0003170	-15.62069	14.79404	-31	6.4	143.6	147	977	100	0	0	-15.3	-14.9
0009189	-15.62069	14.83848	-31	6.7	143.6	147	977	100	0	0	-15.3	-14.9

11m Lufft temp [degC]	11m Lufft wspeed actual [m/s]	11m Lufft wdir actual [deg]	11m wdir vector average [deg]	11m Lufft pressure [mb]	11m Lufft wind quality [%]	11m Lufft wind quality [%]	11m Lufft wind error	11m Lufft air error	11m top heating plate temp [degC]	11m bottom heating plate temp [degC]	Upwelling SW K&Z [mV]	FluxPlateC [mV]
-31.6	6.7	143.6	147	977	100	100	0	NAN	NAN	0	-0.01008347	-0.01011272
-30.8	6.7	143.6	147	977	100	100	0	NAN	NAN	0	-0.01008347	-0.006741814

Data    Diagnostics    Logger Info



**Data Flow Description**



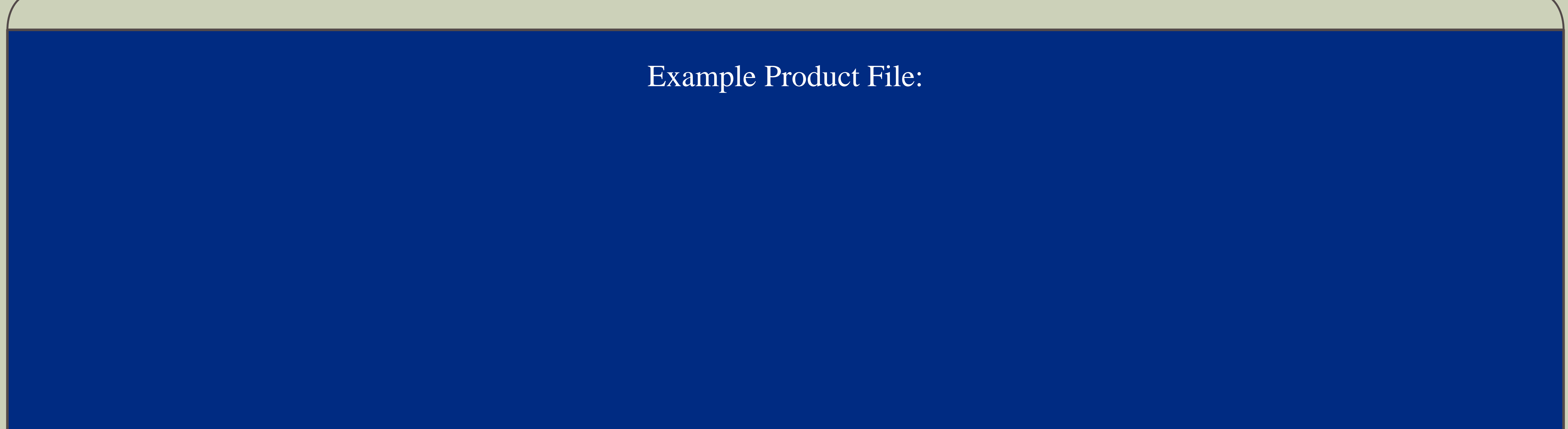
**Ingest**

Folder Name	File Name	FTP Location
Raw	eut5YYJJhh_raw.txt	ftp://ftp.etl.noaa.gov/psd3/arctic/eureka/surface_properties/fluxtower/towermet/raw/
Ingest		ftp://ftp.etl.noaa.gov/psd3/arctic/eureka/surface_properties/fluxtower/towermet/ingest/
Products		ftp://ftp.etl.noaa.gov/psd3/arctic/eureka/surface_properties/fluxtower/towermet/products/
Quicklooks		ftp://ftp.etl.noaa.gov/psd3/arctic/eureka/surface_properties/fluxtower/towermet/quicklooks/

**IASOA Portal**

**Product**

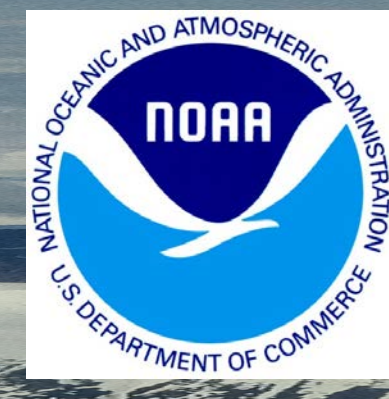
**Home:**  
<http://www.esrl.noaa.gov/psd/iasoa/>  
**Data:**  
<http://www.esrl.noaa.gov/psd/iasoa/dataataglance>





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Datagrams:  
**Eureka**



**Lufft Wspeed/Wdirection & Soil Met**

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pierre.fogal@utoronto.ca  
Scientist, Technician: Christopher Cox  
christopher.j.cox@noaa.gov

**Instrument Specifications**



**Processing**

**Calibration Values Radiometers:**

3. Downwelling Shortwave Total (K&Z PSP CMP22)  
9.856  $\mu\text{V}/\text{W}/\text{m}^2$  08/01/2016 – present  
9.89  $\mu\text{V}/\text{W}/\text{m}^2$  05/11/2016 – 07/31/2016

**Processing Conversions:**

Shortwave Radiation (#3)

**DESCRIPTION:**

**SW** = 1000 \* Recorded value / calibration coefficient

**UNITS:**

**W/m<sup>2</sup>** = 1000 \* mV /  $\mu\text{V}/\text{W}/\text{m}^2$

Flux Plate (#4)

**DESCRIPTION/UNITS:**

Esen = calibration factor [FluxC = 62.69 V/W/m<sup>2</sup>] 34.1 W/m<sup>2</sup>/mV

Vsen = (Recorded Value in mV) / 1000

**Flux in W/m<sup>2</sup>** = Vsen / Esen



**Instrument Details**

Specifications	1	2	3	4
Measurement	Wind spd/dir	Wind spd/dir	Upwelling Shortwave Total	Conductive FluxC
Serial #	241.0516.0901.029	236.0516.0901.029	160432	12301
CD #	n/a	n/a	CD0004292300	n/a
Country of Origin	German	Germany	Netherlands	Netherlands
Instrument Manufacturer	Lufft USA	Lufft USA	Kipp&Zonen CMP22	Hukseflux
Type/Model	Ventus UMB	Ventus UMB	Pyranometer PSP	HFP01
Special Notes	Oriented with tower, which is not true North so data should be adjusted for direction [tower orientation is ~340 deg]	Oriented with tower, which is not true North so data should be adjusted for direction [tower orientation is ~340 deg]		
Height	11m	6m	11m	Depth: ~3cm
Heated? (y/n)	Yes; 24VDC / 240VA	Yes; 24VDC / 240VA	Heated, Aspirated, DC fan	No
Measurement Unit	Wspd: m/s Wdir: deg	Wspd: m/s Wdir: deg	mV	mV
Calibration factors	Applied internally	Applied internally	9.856 $\mu\text{V}/\text{W}/\text{m}^2$	62.69 V/W/m <sup>2</sup>
Unit after Applied Calibration or Conversion	Wspd: m/s Wdir: deg	Wspd: m/s Wdir: deg	W/m <sup>2</sup>	W/m <sup>2</sup>
Additional Corrections Applied (y/n/explain)				