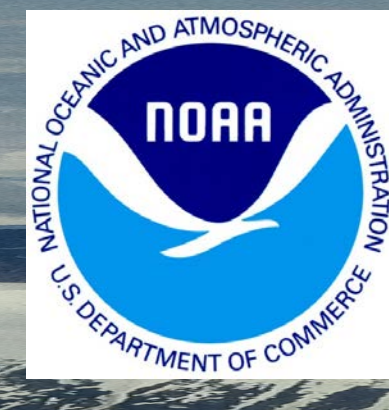


**Contacts**  
 Project Lead: Matthew Shupe  
 matthew.shupe@noaa.gov  
 Engineer: Scott Abbott  
 scott.abbott@noaa.gov



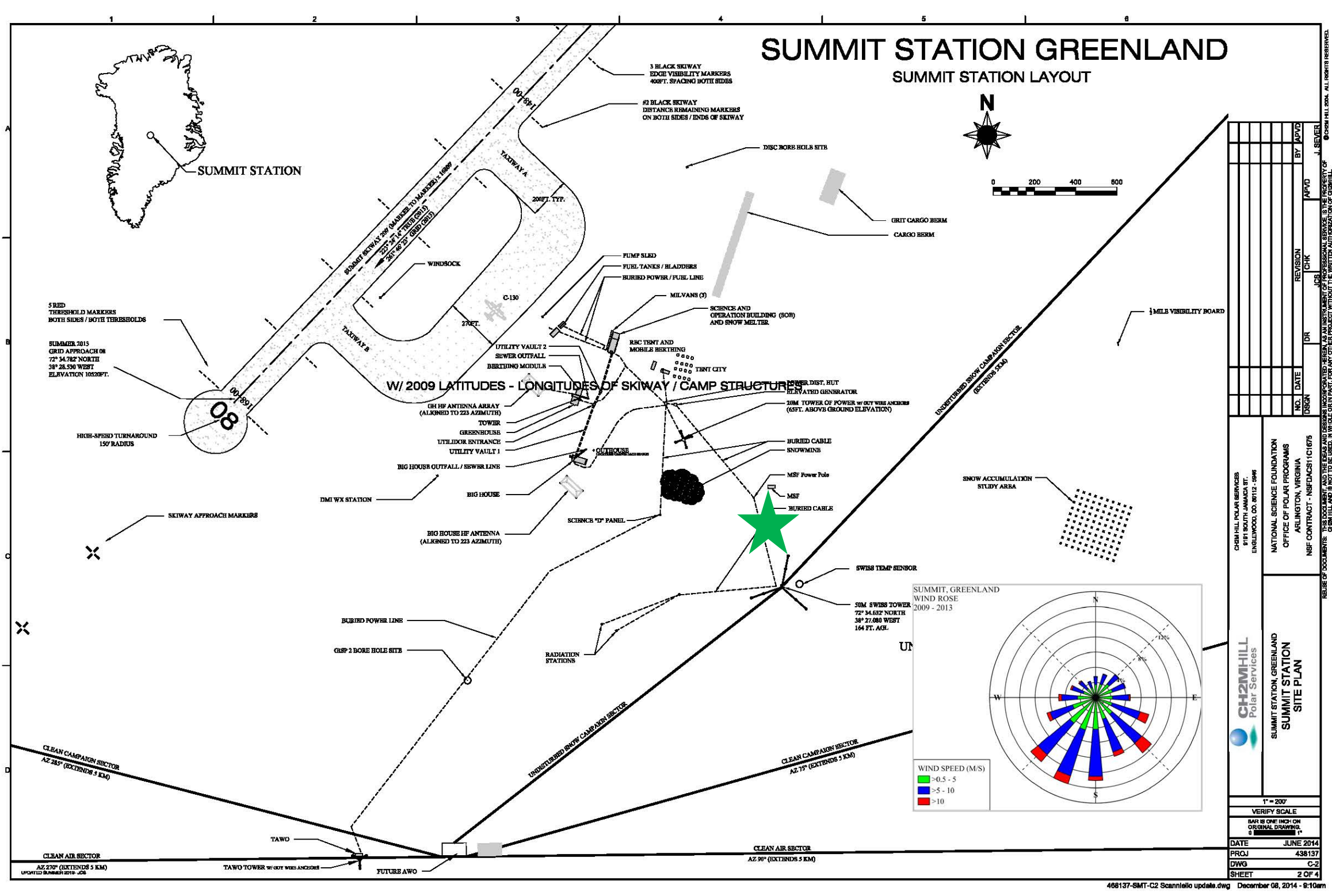
# Datagrams: Summit NOAA Sodar



**Contacts**  
 Principal Investigator: Bill Neff  
 william.neff@noaa.gov  
 Data Support: Sara Crepinsek  
 sara.crepinsek@noaa.gov

## netCDF metadata

<b>File name:</b> 15194_SodarPC.nc	<b>Path:</b> summit\sodar\raw	
<b>Attributes</b>		
Name	Value	
'FileVersion'		
<b>Dimensions</b>		
Name	Length	
'MaxNumberOfHeaders'	10	
'MaxStringLength'	32	
'MaxNumberOfReflectivityHeights'	512	
'TimeIndex'	85066	
<b>Variables</b>		
Name	Long name	Units
'SiteName'		
'Latitude'	'Latitude'	'Degrees'
'Longitude'	'Longitude'	'Degrees'
'Elevation'	'Elevation'	'Meters'
'Azimuth_Beam1'	'Azimuth of beam number 1'	'Degrees'
'Elevation_Beam1'	'Elevation of beam number 1'	'Degrees'
'TxFrequency'	'Frequency of Transmit pulse'	'KHz'
'PulseLength'	'Length of Transmit pulse'	'Milliseconds'
'SampleRate'	'Frequency of sampling'	'KHz'
'RecordDelay'	'Delay between Transmit and beginning of recording'	'Milliseconds'
'SampleLength'	'Length of sample'	'Milliseconds'
'AirTemperatureC'	'Outside air temperature'	'Degrees Celcius'
'HeaderIndex'		
'Time'	'Time of data acquisition'	'Seconds since January 1, 1970'



★ Indicates current location of instrument



### Instrument Details

Specifications	
Measurement	Reflectivity, Boundary Layer Depth
Serial #	
Instrument Manufacturer	
Type	2,100 Hz, <1 m vertical resolution, 1 sec time resolution
Location	Installed on the snow surface near the MSF
Additional Corrections Applied (y/n/explain)	

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

[IASOA Portal](#)

Summit Data Center

NOAA

**FTP File locations at NOAA:**

From Summit Data Center to:  
<ftp://ftp.etl.noaa.gov/psd3/arctic/summit/sodar/>

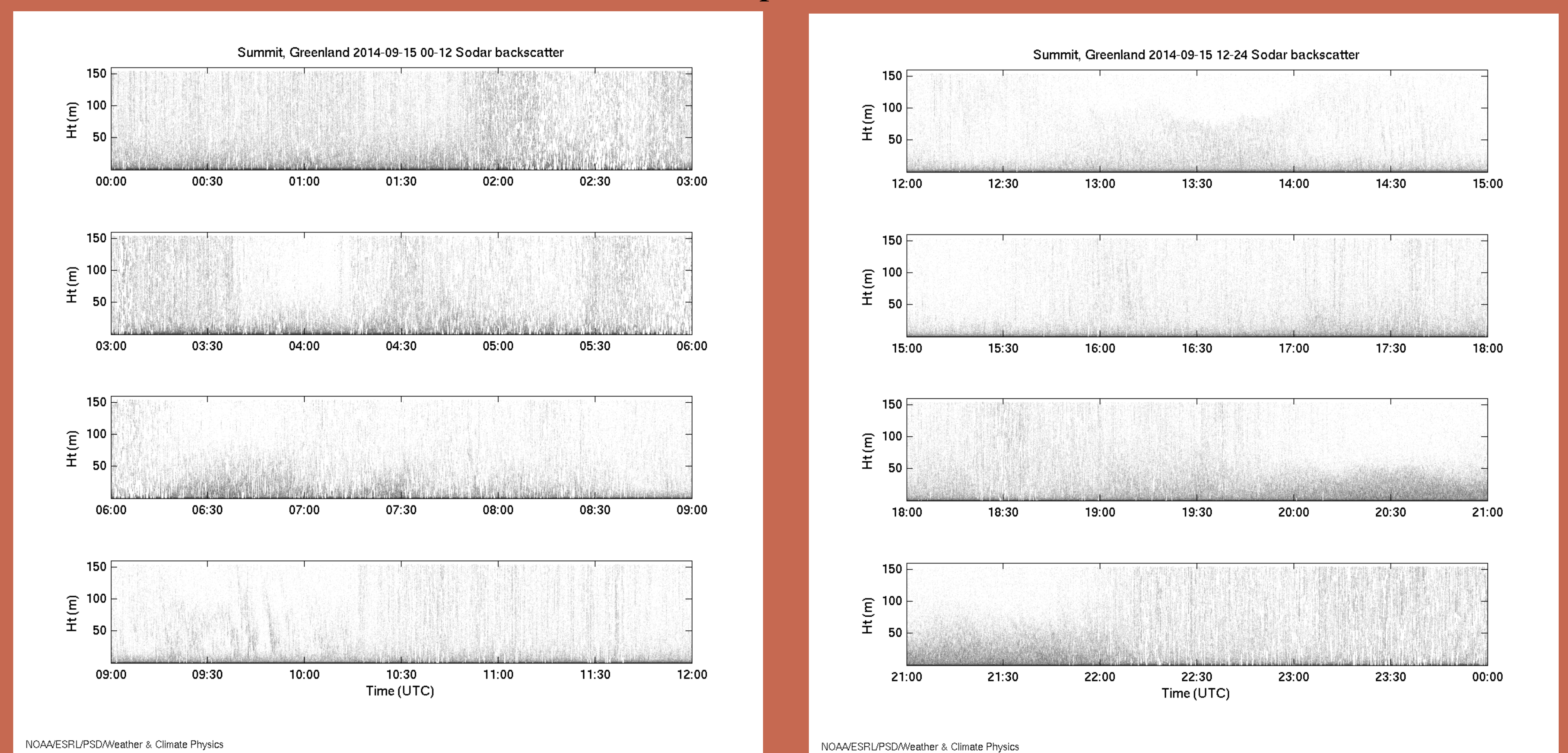
Quicklooks

Processing

Processing steps conducted by William (Bill) Neff: [william.neff@noaa.gov](mailto:william.neff@noaa.gov)

Reference publication: Neff, W.D., D. Helmig, A. Grachev, and D. Davis, 2008: A study of boundary layer behavior associated with high NO concentrations at the South Pole using a minisodar, tethered balloon, and sonic anemometer. *Atmos. Environ.*, **42**, 2762-2779.

### Example Plots:



Product

Product File: