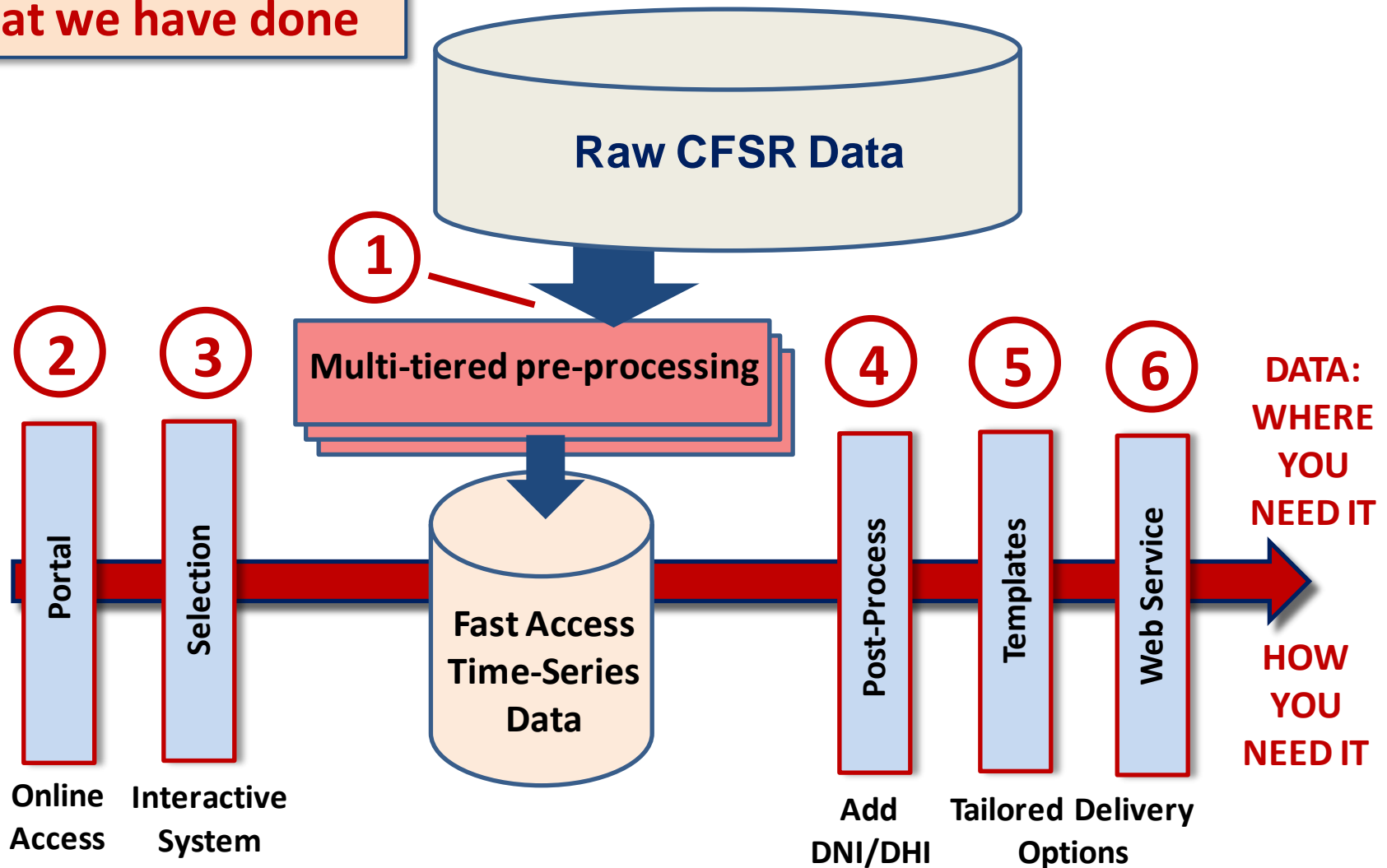


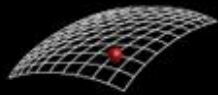


**Interactive Web Access –
Current Conditions, Forecast, History,
& Climate Data
*Anywhere in the World***

AMS 2011

What we have done



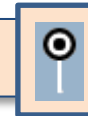


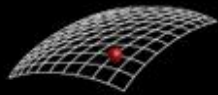
Weather Analytics

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Reliable Sources of 30 year Observation data →



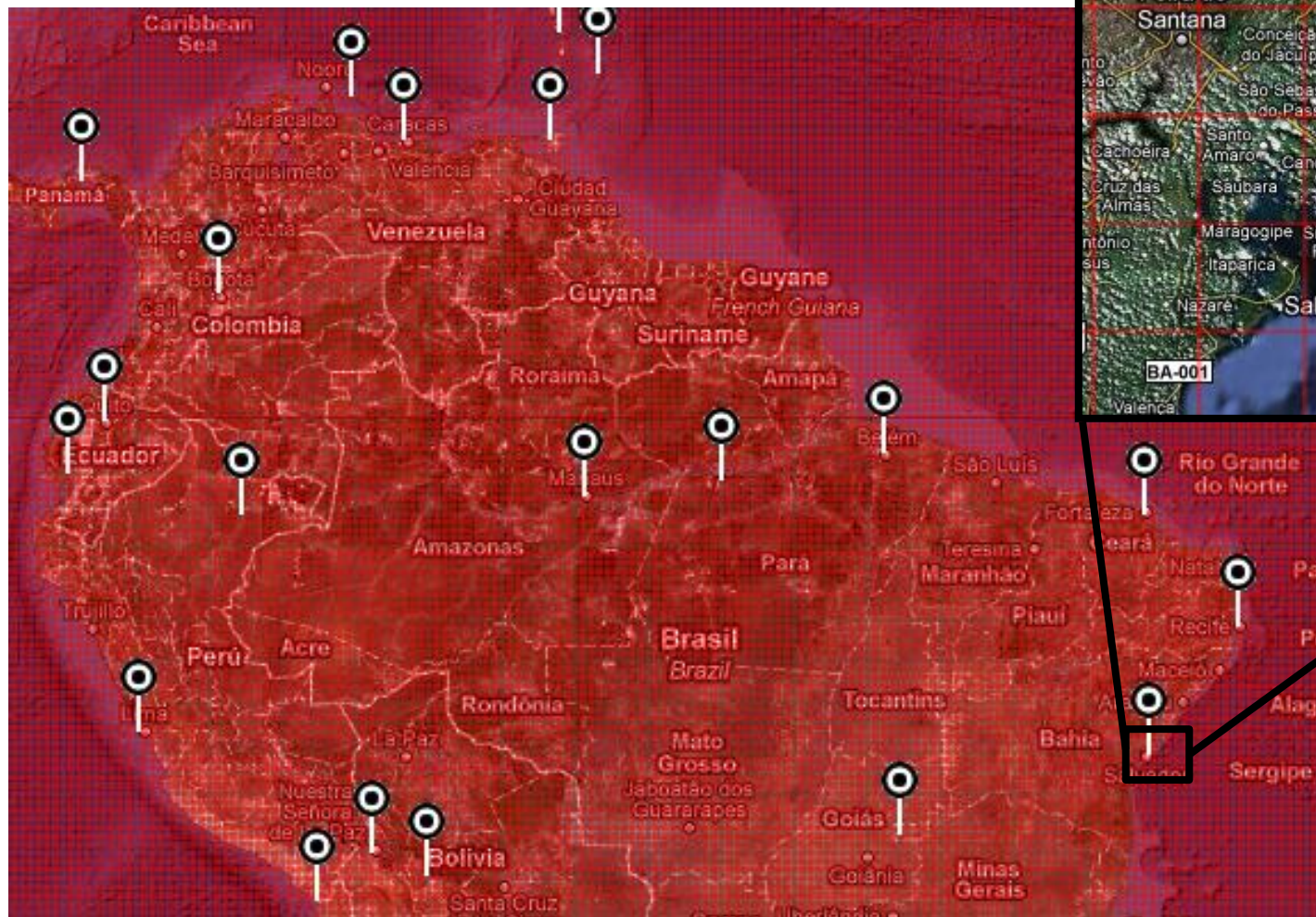


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Now – Direct Access to 30 yr Data in Every Grid Tile





How it Works: What Need

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Step 1 – What do you need?

What weather data do you need?

(Your selections below will apply to all of the sites you select in the next step)

☐ Current conditions & 7-day forecasts (updated hourly – requires subscription)

☐ Historical data, select either:

Specific month or time period

Most current: ☐ 1 mo ☐ 3 mos ☐ 6 mos ☐ 9 mos

or From: _____ To: _____ (mm/dd/yyyy)

Full years of history data for modeling or analysis (1978 - 2009)

Most current: ☐ 1 year ☐ 3 yrs ☐ 5 yrs ☐ 10 yrs ☐ 30 yrs

☐ Typical Meteorological Year (TMY) Building Energy Model input

- Uses most current 30 yrs, includes TM2, EPW, CSV, and .STAT output files

☐ Actual Meteorological Year (AMY) Building Energy Model input

- Available for 31+ individual years, includes TM2, EPW, CSV, and .STAT files

Select your weather variables:

☐ Standard Variables

[View list of Std Variables](#)

☐ Standard + Specialized Variables

[View list of Available Specialized Variables](#)

Proceed to Select Sites



How it Works: Where Need It

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Step 2 – Select your Sites

Place your virtual weather stations anywhere you like using any /all of the options below and click “Finished” when you are done.

- ☐ Enter by address, or
- ☐ Enter by Latitude / Longitude (3 decimals or more of precision preferred), or

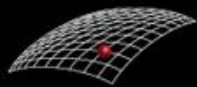
Use our interactive map to: *(Requires pop-ups be allowed)*

- ☐ Place your own sites exactly where you need the data, or
- ☐ Select your 35-km weather data grid tiles for area or route analysis

Note: For a large number of sites you may also submit a list. Please [Contact Us](#)

Select New Site or Sites

Finished Site Selections



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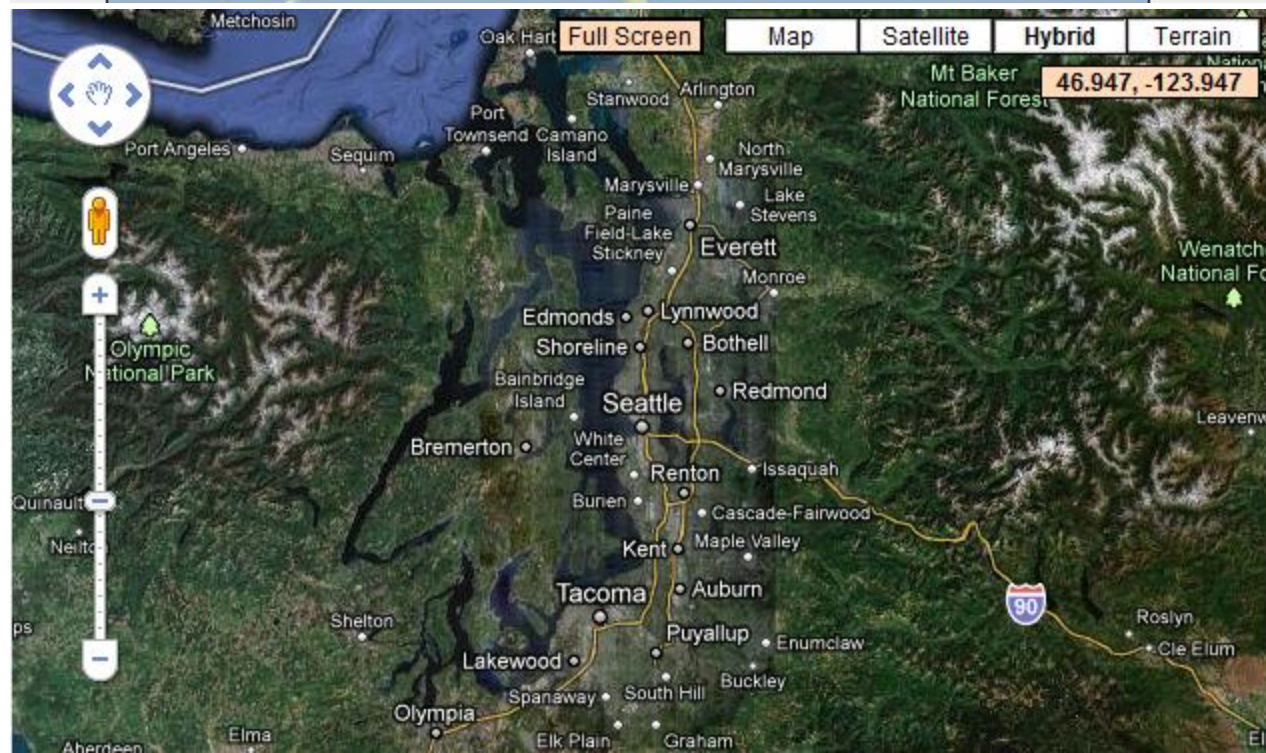


Interactive Map: Position

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- To position either:
 - enter a city, place or address:

- or click the top (locus) map,
 - or move the top map marker
- Double-click lower map to select a site, right click to remove
- Sites can be moved but are fixed on Submit
- Enter your reference name for each site in the text box provided (required)
- Click Submit when completed



Interactive Map: Point Site Select

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- To position either:
 - enter a city, place or address:

- or click the top (locus) map,
 - or move the top map marker
- Double-click lower map to select a site, right click to remove
- Sites can be moved but are fixed on Submit
- Enter your reference name for each site in the text box provided (required)
- Click Submit when completed



Your Site Name

Lat, Long

1. **VIRTUAL SENSOR STATION™**

Interactive Map: Area Select

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- To position either:
 - enter a city, place or address:

- or click the top (locus) map,
 - or move the top map marker
- Double-click tile to select, right click to remove
- Tiles can be set and removed only when visible
- Enter your reference name for each tile in the text box provided (required)
- Click Submit when completed

Your Site Name

Lat, Long

- | | |
|-----------|----------------|
| 1. Mali 1 | 16.703, -3.437 |
| 2. Mali 2 | 17.015, -3.125 |
| 3. Mali 3 | 17.015, -2.812 |
| 4. Mali 4 | 17.015, -2.5 |
| 5. Mali 5 | 17.015, -2.187 |
| 6. Mali 6 | 17.327, -1.875 |

16.109, -3.42

VIRTUAL SENSOR STATIONS™

Data Delivery: TMY & AMY

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[NEW REQUEST](#)
[MY SITES](#)
[DOWNLOADS](#)
[SITE ADMIN](#)
[MY PROFILE](#)
[LOGOUT](#)

Site Name	View Chart	Downloads	View Chart	Downloads
Taj Mahal - India		TMY Download	Historical Chart	Historical Download
			Historical Chart	Historical Download
			Historical Chart	Historical Download

Name	Type
SPtMasterTable_532251_19790101_...	EPW File
SPtMasterTable_532251_19790101_...	TM2 File
SPtMasterTable_532251_19790101_...	Microsoft Office Excel Co...
TmySetTB_HEADER-KEY	Text Document

	H	I	J	K	L	M	N	O	P	Q
	tGlobHc	ExtDirNor	GlobHorz	DirNorm	DifHorz_V	WindDir_I	WindSpd	WindSpd	LiqEquivP	LiqEquivPc
	0	0	0	0	0	320	3	5.8	0	0
	0	0	0	0	0	320	3	5.8	0	0
	0	0	0	0	0	320	4	7.8	0	0
	0	0	0	0	0	320	4	7.8	0	0
	0	0	0	0	0	320	3	5.8	0	0
	0	0	0	0	0	310	4	7.8	0	0
	0	0	0	0	0	320	3	5.8	0	0
	0	0	0	0	0	320	4	7.8	0	0
	353	1413	102	31	94	330	3	5.8	0	0
	488	1413	300	634	81	330	3	5.8	0	0
	692	1413	478	818	78	340	3	5.8	0	0
	833	1413	607	907	72	330	3	5.8	0	0
	900	1413	673	942	73	330	3	5.8	0	0
	888	1413	667	951	70	320	3	5.8	0	0
	799	1413	592	940	61	320	3	5.8	0	0
	638	1413	456	896	51	320	3	5.8	0	0
	523	1413	273	322	153	320	2	3.9	0	0

TmySetTB_HEADER-KEY - Notepad

File Edit Format View Help

HEADER-KEY for Sensor Point System(SM) variables and parameters in Enc

Except where otherwise indicated, values are calibrated as near-surface

NOTE: Null values are not listed.

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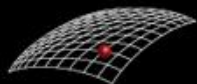
<http://www.wxaglobal.com/License/License.html>

Name	Description
cDateLT	- Date and hour string in Local Time [YYYY-MM-DD]
Ta_C	- Air temperature [Celsius]
Td_C	- Dew point temperature [Celsius]
Ta_F	- Air temperature [Fahrenheit]
Td_F	- Dew point temperature [Fahrenheit]



LOGOUT

N	O	P	Q	R	S	T
C	Twet_C	Tapp_C	PcpPrevH	Spd_KPH	Psfc_KPA	Thi_F
13.1	6	11.7	0	15	99.2	55.6
13.6	7	12.1	0	19	99.1	56.5
13.5	7.1	11.9	0	19	99.1	56.3
15.7	8.1	15.7	0	20	99.1	60.3
18.8	9.4	18.8	0	20	99.1	65.9
20.7	10.4	20.7	0	19	99.2	69.2
22.3	11.3	23.8	0.03	13	99.2	74.9
22.6	11.7	24	0.03	7	99.2	75.2
21.7	12.1	24.1	0.03	7	99.1	75.3
20.4	12.3	20.4	0.03	9	99.1	68.7
20.1	12.6	20.1	0	7	99	68.1
18.9	12.7	18.9	0	6	99	66
15.3	11.4	15.3	0	2	99	59.6
12.3	10.3	12.3	0	2	99	54.1
11.7	9.7	11.7	0	4	99	53.1
13.1	9.8	12.7	0	7	99.1	55.5
15.5	10	15.1	0	11	99.2	59.9
15.8	9.4	15.8	0	13	99.2	60.5
16	8.8	16	0	13	99.2	60



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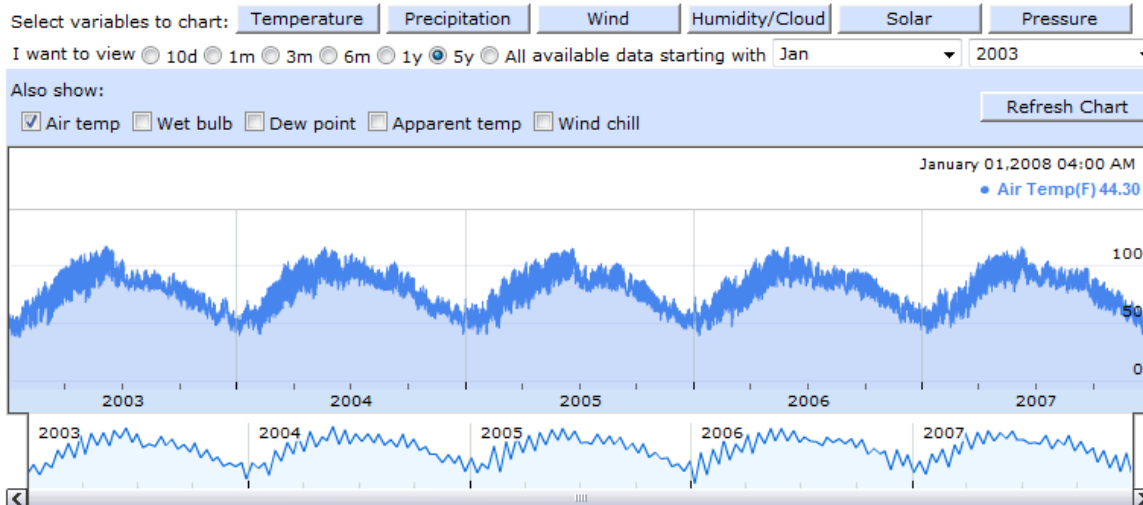
Zoom Chart Review

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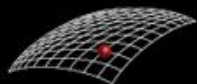
Site Name	View Chart	Downloads	View Chart	Downloads
Taj Mahal - India		TMY Download	Historical Chart	Historical Download
Burns Airport - Oregon USA			Historical Chart	Historical Download
OR Univ Solar Energy Center - Eugene OR			Historical Chart	Historical Download

Site: Taj Mahal - India

Hourly data available from **Jan 01 1979 09:00 AM** to **Jan 01 2010 05:00 AM**
Data currently displayed from **Jan 1, 2003** to **Jan 1, 2008, every () hours**
[All data displayed in Local Standard Time (LST)]



Data graphed in bottom zoom-frame is **Air temp** for full display period selected. Adjust sides of slide-bar to zoom.



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Current Conditions & Forecasts

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Site: Taj Mahal - India

Hourly data available from **Jun 8 2010 5:00PM** to **Jan 17 2011 5:00PM**

Data currently displayed from **Jan 7, 2011** to **Jan 17, 2011 every (1) hours**

[All data displayed in Local Standard Time (LST)]

Select variables to chart: **Temperature** **Precipitation** **Wind** **Cloud/Humidity** **Solar** **Pressure**

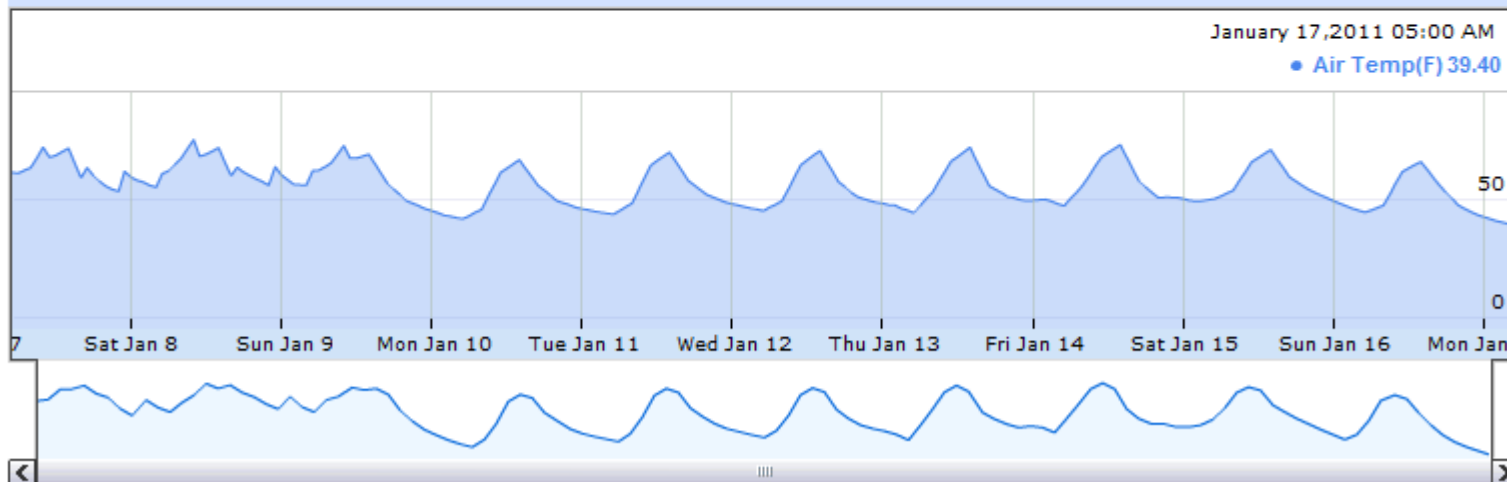
Show most current 10d, 1m, 3m, 6m, 1yr, 5yr, All available data

I want to view ☐ 10d ☐ 1m ☐ 3m ☐ 6m ☐ 1y ☐ 5y ☐ All available data starting with Jan 2011

Also show:

☒ Air temp ☐ Wet bulb ☐ Dew point ☐ Apparent temp ☐ Wind chill

Refresh Chart

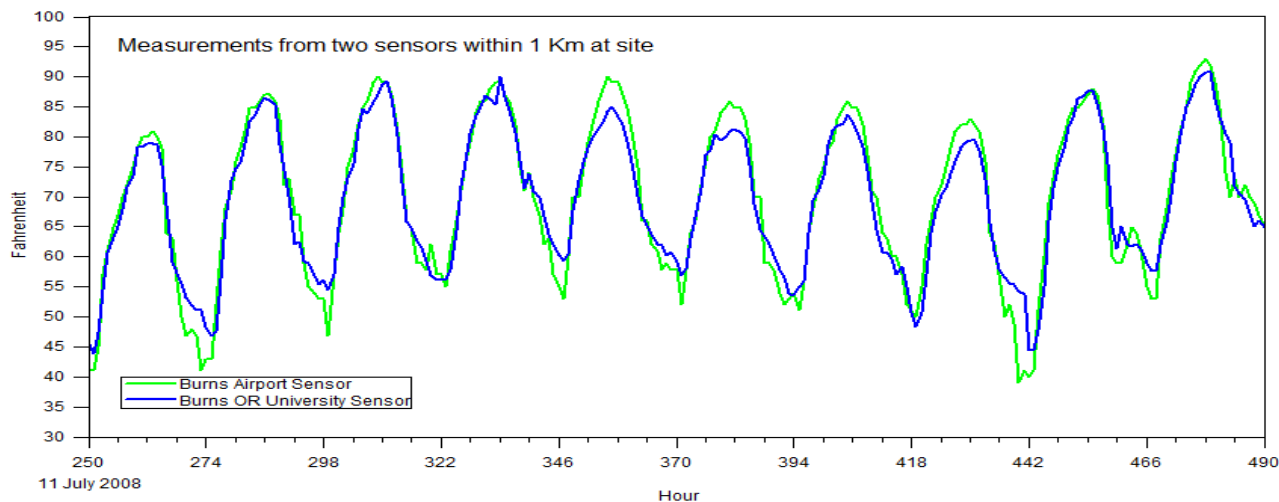


Data graphed in bottom zoom-frame is **Air temp** for full display period selected. Adjust sides of slide-bar to zoom

Output Comparisons: Temp

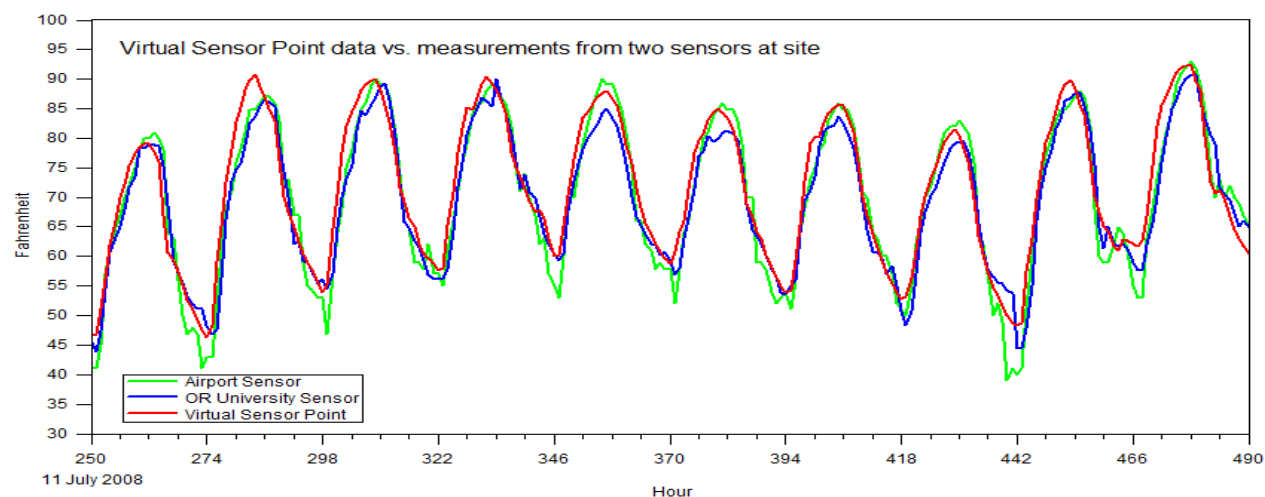
Surface Temperature Observations

Two On-Site Sensors
Burns Airport, Oregon
July 11 - 20 2008

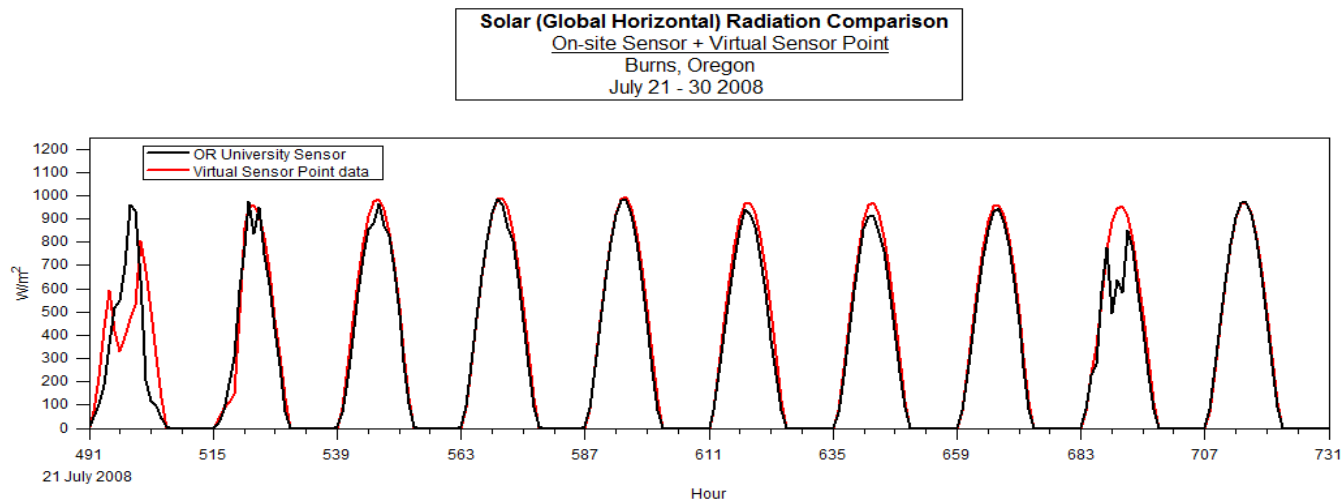
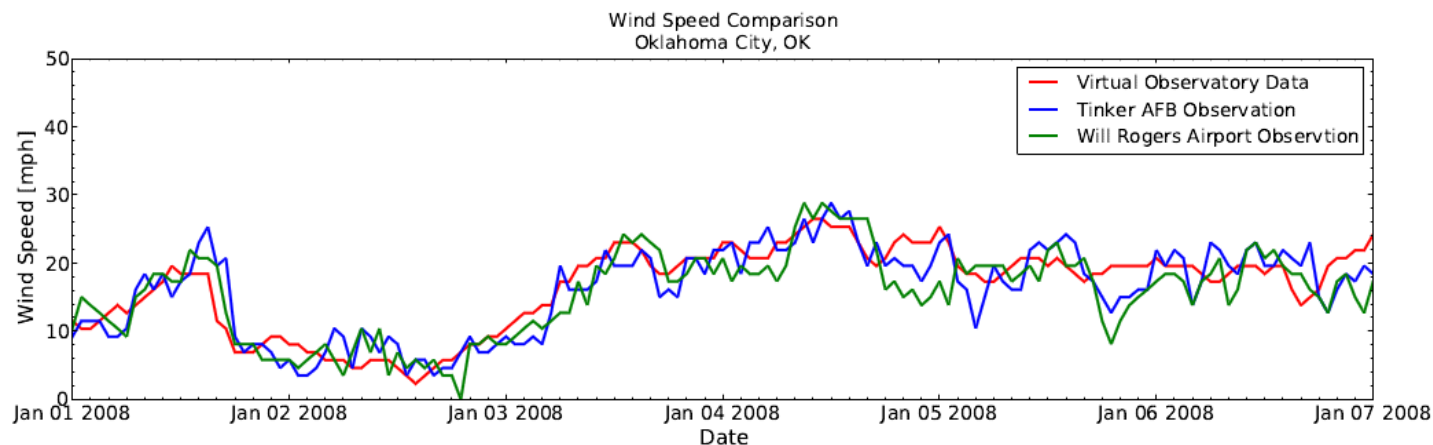


Surface Temperature Comparisons

On-Site Sensors + Virtual Sensor Point
Burns Airport, Oregon
July 11 - 20 2008



Output Comparisons: Wind & GHI



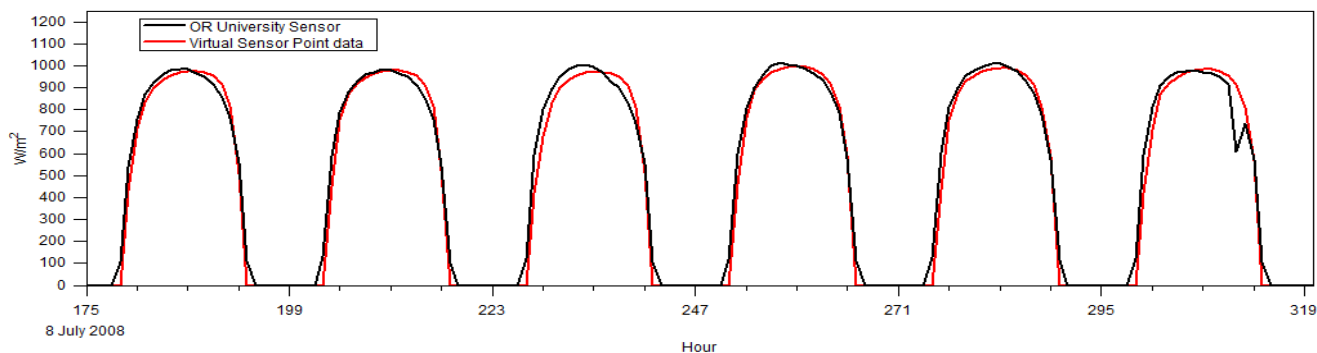
Output Comparisons: DNI

Direct Normal Radiation Comparison - Clear Days -

On-site Sensor + Virtual Sensor Point

Burns, Oregon

July 8 - 12 2008



Direct Normal Radiation Comparison - Cloudy Days -

On-site Sensor + Virtual Sensor Point

Burns, Oregon

July 1 - 7 2008

