Central United States Interactive Effects of Solar Radiation Related to: the Earth's Magnetic Field, the Storage System of the Earth's Atmosphere, Surface Temperatures, and Tornado's

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Thanks to: NOAA NCDC F6 Data Jan Alvestad, Solen Info SOHO Weather Underground

Biographical data as it pertains to the 2011 High Planes Conference in Wichita, Kansas

- Taught electronics theory, flight, manufacturing, and physics in the College of Science at MSU for 30 years.
- Taught beginning, advanced, and graduate statistics, in the College of Business at MSU for 5 years.
- Have worked with solar cycles through all bands of amateur radio since 1955.
- Licensed pilot and taught weather elements for pilots for 30 years.
- Was a full time broadcaster for 15 years and Chief Engineer with a First Class Commercial FCC license. Built radio and television stations.
- Disk Jockey for Top Forty radio show for 10 years, which included news and weather.

Philosophy of Research

A good researcher strives for truth. Scientists do not skew data toward their wishes. Don't take sides. Don't place issues on your shoulders. Place them on a table where other researchers can study. Be respectful of other scientist research. (Relate to the story of the fighter pilot versus the heavy aircraft lifter.) You need to question your own work. Ask your self, "is this answer about right." If there is a mistake, the results will probably be way of target. Should you feel like a failure when making a mistake? No. You have just found out something that does not work and Penicillin was discovered by a mistake.

Weather Review 101

Where does our weather come from? There is no practical heat from the earth's molten core. All earth's energy comes from the sun. In general, it's solar energy and how the earth's atmosphere processes and stores this energy with protection via the earth's magnetic field. Since the magnetic field is fairly constant the two basic concepts are:

- 1. the varying solar energy.
- 2. the storage and delay characteristics of the earth's atmosphere.

Additional items include:

the earth's rotation
the 23 ½ degree tilt of the earth's axis
Hadley cells and the creation of the three major wind belts
Rossby waves

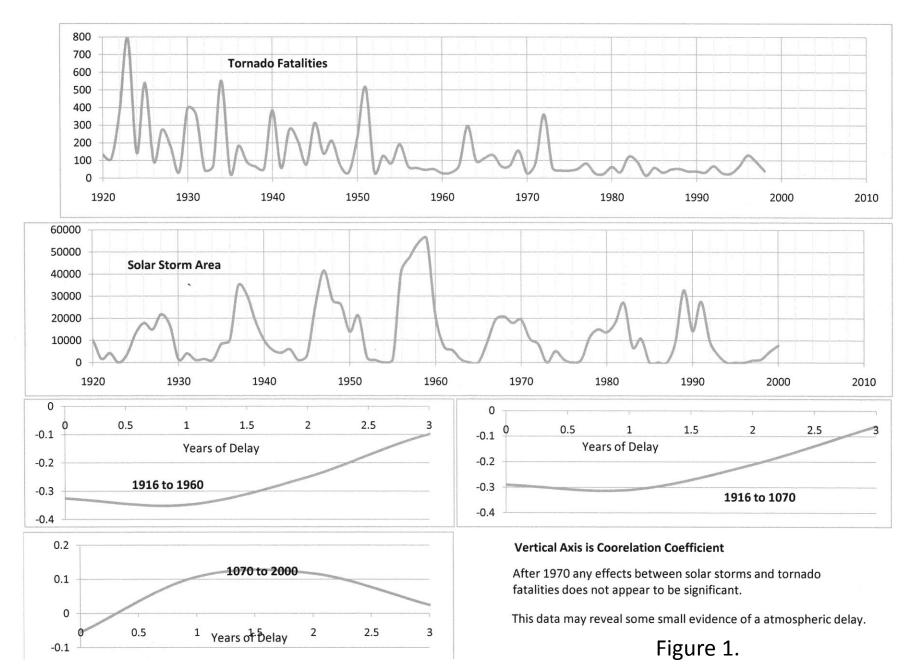
-distortions or kinks that develop in Rossby waves

Rossby waves of the earth are not a perfect circle like in your coffee cup. The kinks are the beginning of a low pressure area and mass or frontal systems. The other two methods of developing warm most air up lift are orographic and convectional. Ninety degree wind shifts from high pressure to low is caused by pressure gradient, frictional effects, and the coriolis force. Attention should also be made to specific humidity rather than relative humidity. Since our star's output is not constant and the direct rays on the earth vary because of our 23 1/2 degree tilt, neither is our weather stable on planet earth. The variations of the sun's output is basically in the form of solar storms which is often commonly called sunspots. However, many researchers use the intensity or area that a solar storm covers. Two major methods of forecasting weather is looking at weather patterns using historical data, the other is trying to understand how the weather machine of the earth works.

Tornado Observations

Figure 1, is a plot of fatalities and solar activity. Notice that when solar activity is greater, the number of fatalities are down. When solar activity is less, fatalities are on the rise. Notice the delay of about a year or a year and half. Notice there were far more fatalities in the early part of the 20th century when the population was much less than the present. Notice also of the dwindling fatalities from about 1975 to 2000. If the question is ask, "What causes Tornado's," Where do you start to answer such a question? If you ask what makes a country strong and two answers are a strong military and a good economy, then how do you get a strong military and a good economy. It must be traced back to how much success a country has competing in the global market place. Where do you trace the earth's weather system back to? Not the jet stream, not the El' Nino, not how the Rossby system and kinks develop, but when solar energy hits the atmosphere of the earth.

Solar Storm Areas Coorelated with Tornado Fatalities Related to Years.



Temperature Effects of Solar Radiation

The popular press, government, and many scientist have been warning us of our part in atmospheric change. Half of our atmosphere in weight is less than 18,000 feet. That's 3.409 miles straight up. The earth has a diameter of 7926.28 miles, so we should be concerned about our very thin atmosphere. However, Dr. Roy Spencer and Dr. John Christy of NASA and the University of Alabama once stated that earthlings are contributing about 2 or 3 percent of change in our atmospheric characteristics. A Nobel Prize might be earned by the study that could prove exactly how much different the atmosphere would be if humans where not present on the planet earth. The North Magnetic pole, which is really the south magnetic pole, is beginning to shift faster than it has in the last 100 years. In the last 300 years the earth has lost 10 percent of it's magnetic field. The earth's magnetic field is a strong player in our weather system because without it, we would lose our life support system. We are assuming when Mars lost it's magnetic field, it lost it's water.

Since the time of Galileo we have observed the 11 year solar cycle. Starting in about 2008, we have experienced a significant change in this 11 years cycle. Figure 2, reveals a startling decline in sunspot magnetic field strength. The cycle stayed low with little activity until near 2010.

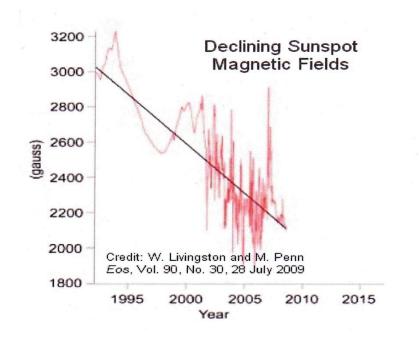


Figure 2.

The next peak was forecast for 2011 and 2012. This is not happening. Figure 3, shows the old and new forecasts.

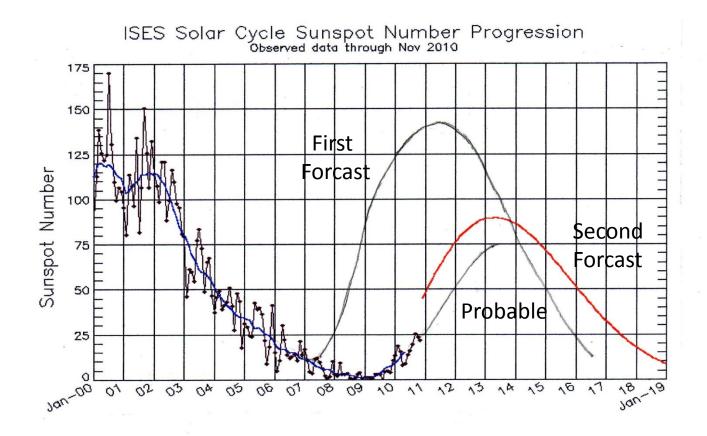


Figure 3.

Let us not forget the almost perfect correlation between sunspots and cosmic ray count in Figure 4.

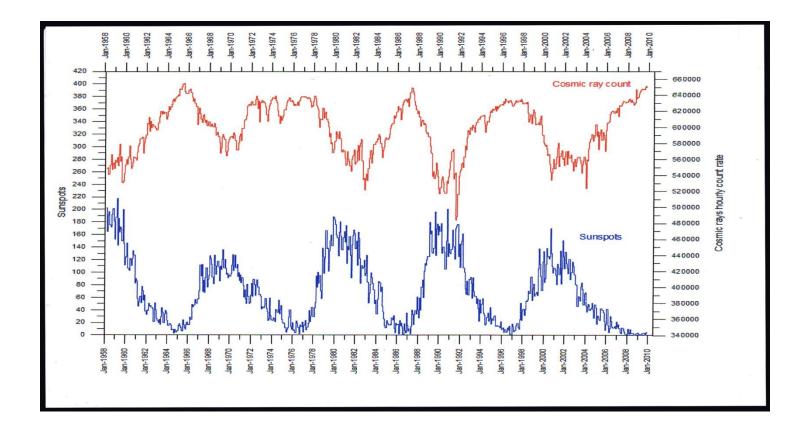


Figure 4.

With respect to temperatures, the following Figures are samples of recent temperatures during this abnormal solar cycle 24. Although the annual average may not change much the, *winters and summers are showing extremes. Colder in the winter, warmer in the summers.*

				Amund	sen Scot	t Antarc	ticaTe	mperatures F			Dr. Cliff	L House			
											MSU E	meritus			
Year	2005	2006	2007	2008	2009	2010	2011			S	pringfield	l, Missou	ri		
lanuary	-15	-18	-16	-21	-16	-14	-14								
ebruary	-38	-38	-43	-42	-42	-35	-34								
March	-60	-79	-70	-64	-59	-58	-69						······		
April	-67	-68	-78	-65	-74	-81	-76	-54							
May	-74	-57	-68	-74	-61	-65	-81	-56 2004 200	05 2006	2007	2008	200	9 20	10	20
lune	-74	-72	-61	-80	-67	-77			Annual						
luly	-82	-80	-73	-71	-73	-75		-58	Annuar	I]
August	-77	-50	-76	-76	-78	-72		1				1			
September	-63	-76	-78	-65	-69	-80									
October	-56	-70	-59	-61	-60	-58									
November	-39	-36	-38	-38	-35	-37									
December	-11	-22	-19	-17	-17	-16	12	The 32 year average	ge for South Po	le, Antarc	tica befo	re 2001 v	vas -55 F.		
	2005	2006	2007	2008	2009	2010		The average Amur	dsen Scott, fro	m 2005 to	2010 w	as -55.47	2 F.		
Mean	-54.667	-55.5	-56.583	-56.167	-54.25	-55.667		On the average 20	05 to 2010 rev	ealed no s	ignifican	t differen	ice in Ten	np than	
								previous decades.							
	Winters o	of 2005/20	006 to Wir	nter 2009,	/2011					-					
November	-39	-36	-38	-38	-35	-37									
December	-11	-22	-19	-17	-17	-16									Colorescont.
January	-18	-16	-21	-16	-47	-14		-40				1			
February	-38	-43	-42	-42	-35	-34		-422005 20	06 2007	2008	2009	201	0 20	11	20
March	-79	-70	-64	-59	-58	-69		-44							
April	-68	-78	-65	-74	-81	-76		-46		Their	Summe	r			2
	Win 06	Win 07	Win 08	Win 09	Win 10	Win 11		-40							
Mean	-42.167	-44.167	-41.5	-41	-45.5	-41									
								-66	1	1		T		T	
	Summers	of 2005 t	0 2010					-68 ²⁰⁰⁴ 20	005 2006	2007	2008	200	9 20	10	20
May	-74	-57	-68	-74	-61	-65									
June	-74	-72	-61	-80	-67	-77		-70	Their Wir	tor			1		
July	-82	-80	-73	-71	-73	-75		-72	inen wir					I	
August	-77	-50	-76	-76	-78	-72						1			
September	-63	-76	-78	-65	-69	-80									
October	-56	-70	-59	-61	-60	-58									
	2005	2006	2007	2008	2009	2010									
	2005														

		30		PAFB, A	AK Temp	erature	S F Dr. Cliff L House
1 1 1		-					MSU Emeritus
Year	2005	2006	2007	2008	2009	2010	Springfield, Missouri
lanuary	-10	-23	-6	-9	-11	-10	
February	-1	5	-3	-3	0	6	
March	21	6	-7	16	7	12	35
April	35	32	39	29	31	37	33
May	56	50	52	49	50	56	31
lune	64	62	63	59	61	61	29
July	65	63	65	59	69	63	27
August	60	56	60	54	55	59	25 Annual
September	47	52	48	47	48	47	2004 2005 2006 2007 2008 2009 2010 201
October	29	32	22	14	30	29	
November	-2	-8	12	0	0	10	
December	6	0	-4	-7	-2	-22	The average PAFB, AK temperature ending in 1997 was 35.1 F.
	2005	2006	2007	2008	2009	2010	The average PAFB, AK from 2005 to 2010 was 28.222 F.
Mean	30.8333	27.25	28.4167	25.6667	28.1667	29	
							8
November	-2	-8	12	0	0	10	
December	6	0	-4	-7	-2	-22	
January	-23	-6	-9	-11	-10	-5	
February	5	-3	-3	0	6	-2	2
March	6	-7	16	7	12	9	0
April	32	39	29	31	37	16	-22004 2005 2006 2007 2008 2009 2010 2011
	2005	2006	2007	2008	2009	2010	-4
Mean	4	2.5	6.83333	3.33333	7.16667	1	-6 Winter
May	56	50	52	49	50	56	
June	64	62	63	- 59	61	61	54
July	65	63	65	59	69	63	52
August	60	56	60	54	55	59	50
September	47	52	48	47	48	47	48
October	29	32	22	14	30	29	46 Summer
	2005	2006	2007	2008	2009	2010	2004 2005 2006 2007 2008 2009 2010 2011
		52.5	51.6667	47	52.1667	52.5	

	~			Fairbar	ks Eiels	, AK Ten	nperati	ures F Dr. Cliff L House
								MSU Emeritus
Year	2005	2006	2007	2008	2009	2010	2011	Springfield, Missouri
January	-9	-20	-5	-10	-12	-13	-7	
February	-2	11	-5	-5	-1	4	-6	
March	22	7	-6	16	6	12	7	30
April	34	31	37	29	31	37	30	28
May	55	51	37	47	48	52	50	26
June	62	59	60	57	57	57		Annual
July	62	62	62	57	64	60		24
August	58	55	58	52	52	57		22
September	47	49	46	44	45	44		2004 2005 2006 2007 2008 2009 2010 2011
October	28	31	19	12	29	27		
November	-5	-11	13	-1	-1	12		
December	4	-2	-3	-10	-2	-19		The average Eiels, AK temperature from 1990 to 2004 was 31.25 F.
	2005	2006	2007	2008	2009	2010		The average Eiels, AK from 2005 to 2010 was 26.75 F. 4.5 F colder.
Mean	29.6667	26.9167	26.0833	24	26.3333	27.5	ſ	
								8
November	-5	-11	13	-1	-1	12		6 Winter
December	4	-2	-3	-10	-2	-19		
January	-20	-5	-10	-12	-13	-7		4
February	11	-5	-5	-1	4	-6		2
March	7	-6	16	6	12	7		0
April	31	37	29	31	37	30		2005-06 2006-07 2007-08 2008-09 2009-10 2010-11
	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	ŀ	
Mean	4.66667	1.33333	6.66667	2.16667	6.16667	2.83333		54
								52
May	55	51	37	47	48	52		50
June	62	59	60	57	57	57		Summer
July	62	62	62	57	64	60		
August	58	55	58	52	52	57		46
September	47	49	46	44	45	44		44 +
October	28	31	19	12	29	27		2004 2005 2006 2007 2008 2009 2010 2011
	2005	2006	2007	2008	2009	2010		
Mean	52	51.1667	47	44.8333	49.1667	49.5		

wichita, Ka	nsas Temp	eratures F	from 200	15 to 2011		Gener	ally - Col	der in winter than average and warmer in summer than average.
								Weather extremes have occurred since cycle 24 remained low.
Year	2005	2006	2007	2008	2009	2010	2011	Annual temperature and solar cycle correlation is r = 0.58
lanuary	31	44	30	33	32	29	29	between 2006 and through May of 2011.
February	41	36	34	35	43	33	33	
March	46	49	55	46	48	47	48	40
April	57	63	53	54	55	61	59	
May	68	68	68	66	66	66	67	30
lune	78	76	74	77	79	81		20 Januar ment of
July	80	83	80	80	78	83		10 Lower part of solar cycle 24
August	79	82	83	78	76	84		
September	75	68	74	68	69	74		2004 2005 2006 2007 2008 2009 2010 2011
October	60	58	62	58	51	63		
November	48	48	46	46	51	47		60
December	33	39	31	33	30	34		58
	2005	2006	2007	2008	2009	2010		56
Mean	58	59.5	57.5	56.16667	56.5	58.5		56
								Annual Temp /year
	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11		
November	48	48	46	46	51	47		2004 2005 2006 2007 2008 2009 2010 2011
December	33	39	31	33	51	34		
January	44	30	33	32	29	29		46
February	36	34	35	43	33	33		44
March	49	55	46	48	47	48		42
April	63	53	54	55	61	59		42 Winter
	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11		40
Mean	45.5	43.16667	40.83333		45.33333	41.66667		Temp /year
May	68	68	68	66	66	66		76
June	78	76	74	77	79	81		74
July	80	83	80	80	78	83		72
August	79	82	83	78	76	84		Summer
September	75	68	74	68	69	74		70
October	60	58	62	58	51	63		68 Temp /year
	2005	2006	2007	2008	2009	2010		2004 2005 2006 2007 2008 2009 2010 2011
Mean	73.33333	72.5	73.5	71.16667	69.83333	75.16667		200, 200, 200, 200, 200, 200, 2010, 2011

Continued Work from Last Years 24th Annual High Plains Conference at Dodge City, Kansas.

Some of the following pages are from last years presentation relating to solar activity and how it effects the earth days to weeks later. Observe the outstandingly good correlation of over r = 0.9, on weekly forecast in Figures 9, and 10. Why is there a double peak? *Why does the delay of solar activity to surface temperature vary from month to month or year to year?* Why in some months there is little or no correlation? What does random numbers give us when interchanged with solar activity and surface temperatures ? Observe Figure 11.

Figures 12,13,14,15,16, and 17 shows random monthly studies of Wichita, Kansas relating to earth surface temperature affects and delays, of solar bombardment.

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| 13 | 133 | 87 | 73 | 58 | 146
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Figure 9.

Jonun or Ju	ay, 2009			erature an			augenete	Delau	Springfield		Flux /main	De A /Adar	D= A /A	De A /mais	Caratilat	C	C		I	
		Flux N	wax temp	Avg Temp	ain Temp	Plantry A	sunspots	Delay	Flux/max		Flux/min		PaA/Avg	PaA/min		the second se	Spot/Min		1 Flux/Max	
Indu	-	67.5	0.7	74				0.0	July	July	July	July	July	July	yluL	July	July			1
July	1	66.5	83 85	71	58 60	4.1	0	0 Day 1 Day	-0.02511			-0.04421		0.120266		0.0678				-
	3	67.3	85	73		3.3			0.086025			0.20623	0.165575						0 / 1 / 1	1-1-1
	3	67.3	85	74	64 73			2 Day	0.394281			0.388039		0.121908					1 4 7 10 13 16 19 22 25 28 3	1
						3.3		3 Day	0.515891			-0.04616			0.460994			-0	0.5	-
	5	71.6	75 85	71	67	5.6		4 Day		0.592052	The second se	0.02945			0.425215				-1	
					62	4.4	the second se	5 Day	0.267477		0.47952	-0.06225	-0.02764						-	
	7	71.3	85	73	60	4.8		6 Day	0.174513			-0.05579	-0.08725						1 Flux/Ave	
		70.8	88	76	63	5.5		7 Day	0.236583			-0.27447	-0.19098						Plux/Avg	
	9	69.1	93	80	67	5.6		8 Day	0.074894			-0.49599	-0.41446							-
	10	67.6	89	81	73	7.3		9 Day	-0.07676			-0.32373	-0.42275						0	
	11	68.2	92	82	72	3.5		10 Day	-0.07742		-0.07455	-0.21618	-0.29379						0.5 1 4 7 10 13 16 19 22 25 28 3	1
	12	68	87	80	73	4.9		11 Day	0.107643			-0.10696							-1	
	13	67.2	80	76	72	9.6		12 Day	-0.08156				0.142516						-1	
	14	66.6	84	77	70	9.8		the second s			and the second sec		0.306542				-0.431		1	
	15	66.5	89	81	73	5.1							0.328772						Flux/Min	
	16	66.7	89	79	69	3.6		15 Day				a second the second distance in the later	0.251097				and the second sec			-
	17	66.2	77	68	58	2.1						0.120679							0	1779
	18	67	79	67	54	3.1		17 Day	-0.1672									-0	0.5 1 4 7 10 13 16 19 22 25 28 3	1
	19	67.6	80	69	57	2.4			The second se			and the second se	0.122482						-1	
	20	68.2	85	73	60	5.8		19 Day	0.015565			-0.09915	-0.15893						•	
	21	67.7	75	71	67	4.4		20 Day	-0.13972		and a sold minister of the second	-0.02648	-0.137						1	
	22	67.8	81	72	63	24.4			-0.41497		-0.34557	0.099779							PaA/Max 0.5	
	23	67.8	84	72	59	7.8			-0.42332					0.111778						
	24	68.3	89	76	62	6.3			-0.40676					0.012709			-0.11596		c the second	
	25	69.1	79	74	68	6.6			-0.46732		-0.45476		0.19903		-0.2959		the second se		0 5 1 4 7 10 13 16 19 22 25 28 3	31
	26	67.6	85	74	62	3.1		25 Day	-0.54043									-4	0.3	
	27	68.4	87	77	67	3.8		26 Day	-0.35417		-0.39938	0.29287			-0.26818		-0.23699		-1	
	28	68.7	85	75	65	4.4		27 Day	-0.0124					0.253518			-0.1247		1	
	29	68.3	83	74	64	2.3		28 Day									-0.0138		PaA/Avg	
	30	68	76	70	63	3.3		29 Day	0.21436		0.144225		-0.19043	-0.18388	0.300554	0.234578	0.126296	(0.5	
	31	68.7	79	69	58	5.4		30 Day	0.297072	0.303439	0.303439	-0.08996	-0.17352	-0.24239	0.531788	0.473967	0.334107		0	
ugust	1	68.1	79	71	63	4			0.299083	0.352957	0.352957	-0.12635	-0.22087	-0.26947	0.645019	0.653998	0.571206		0 5 1 4 7 10 13 16 19 22 25 28 3	31
	2	68.1	81	68	55	3												-		
	3	67.4	93	79	64	10			August da	ta is shown	because the	31 days of	delay uses	August num	ibers.				-1	
	4	65.8	93	83	72	4	0		Flux - Sola	r Flux at Ear	th								1	
	5	66.2	90	81	72	6			PaA - Plan	etary A Inde	x					-			PaA/Min	F
	6	66.8	87	78	68	14	0		Spot - Sun	spot numbe	r by Star							0	0.5	_
	7	67.8	90	81	71	8	0												0 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	erre
	8	67	95	84	73	4	0		Seven	day dela	y correlat	tion							1 4 7 10 13 16 19 22 25 28 3	1
	9	67.2	94	84	73	8				Min Temp										-
	10	67.1	85	76	66	4	0			73	17								-1	
	11	66.6	85	75	65	4				72					-			1 -		
	12	66.5	86	74	62	5				73									Spot/Max	
	13	67.2	87	76	65	5				72								0.5	\sim 1	
	14	67.6	86	75	64	4				70						Sunspot	aphs are off se	+ 0	/ \ /	
	15	68.1	87	76	65	3	-			73		-			-		days to make		1 4 7 10 13 16 19 22 25 28 31	
	16	68.8	88	81	74	3			-	69							time the solar	-0.5	/ 10 15 10 19 22 25 26 31	
	17	68.1	88	78	67	3				58						wind reach		-1		
	18	67.4	82	75	67	4				54						wind redch	co carui.			
	19	67.1	80	73	65	10				57								1	Spot/Avg	
	20	67.6	78	69	60	10			1	r	0.9057							0.5	short use	
									1	-	0.3037									
	21	66.4	79	69	58	8			80							-		0	and the second s	
	22	66.6	77	66	55	5	-			Constitution and and the				Te	emperature			-0.5	1 4 7 10 13 16 19 22 25 28 31	
	23	67.3	79	67	54	5	-	-	60 B	- 0.0057				-		-		-1		
	24	67.6	80	70	59	3			40 R	= 0.9057								-		-
	25	67.1	86	73	60	3	-			-								1	Enat /Adia	
	26	67.3	85	73	61	4	-		20									0.5	Spot/Min	
	27	67.7	83	75	67	5								Sun sp	oots			0.5		
	28	67.9	72	69	65	2			0		1	1				_		0	The second secon	
	29	68	80	72	63	2			1	. 2	3 4	5	6 7	8	9 10			-0.5	1 4 7 10 13 16 19 22 25 28 31	
	30	67.2	73	64	54	19					-			1				-1		
	31	68.3	70	59	48	5	12											-1		

Figure 10.

onth o					ind Solar Radiatio						d, Missouri							
	F	lux N	Avg Avg	Temp Min Te	emp Plantry A	Sunsports	Delay	Flux/Max	Flux/avg	Flux/min	PaA/Max	PaA/avg	PaA/min	Spot/Max	Spot/Avg	Spot/Min	1	1 Flux/Max
																	0.5	5
с	1	71.9	61	53	44 2.4			-0.412163			0.3375362					0.1184987		
	2	73	69	48	26 1.9			-0.384123			0.3272657					0.0173566	(
	3	72.6	45	33	20 0.9			-0.160707			0.3284207					0.1765523	-0.5	5 1 3 5 7 9 11 13 15 17 19 21 23 25 27 2
	4	73.6	57	45	32 1.	5 13		-0.012116			0.3412752							1
	5	75.3	46	38	29 2.	5 13	4 Day		0.0890689		0.3241345			0.0737027		0.1079097		
	6	78.2	31	29	26 1.	3 29	5 Day	0.2585996	0.1619876		0.0288589			0.1165084		0.0046359		1
	7	82.2	38	33	27 0.	24	6 Day	0.277018	0.143694	-0.074688	-0.074922	-0.149298	-0.21983	0.0840787	-0.001111	-0.130473	0.5	Flux//Avg
	8	86.9	44	40	36 0.	3 36	7 Day	0.2521087	0.0834292	-0.127991	0.0470853	-0.011877	-0.074698	0.0558993	-0.086167	-0.251438	0	,
	9	88.9	36	31	26 2.	1 42	8 Day	0.2358936	0.0432235	-0.195274	0.0213918	0.0130974	0.0173517	0.0882621	-0.074076	-0.262824	(0
	10	86.9	42	34	26 7.	6 43	9 Day	0.2042423	0.0224315	-0.191523	-0.083524	-0.019931	0.0749976	0.1387404	-0.011592	-0.190334	-0.5	5 1 3 5 7 9 11 13 15 17 19 21 23 25 27 2
	11	93.4	58	46	33 11.	8 44	10 Day	0.1765639	0.0075169	-0.178008	-0.171387	-0.111892	-0.016355	0.0778326	-0.049476	-0.17843		
	12	93.9	33	32	31 7.	3 39	11 Day	0.1512978	0.0129629	-0.128636	-0.267425	-0.287513	-0.245768	0.0439795	-0.056561	-0.165398	-	1
	13	93.8	33	30	26 4.			0.0409712	-0.028467	-0.082373	-0.338134	-0.400417	-0.391617	-0.015624	-0.072981	-0.115067		1
-	14	91.9	43	35	26 2.	5 35	13 Day	-0.082226	-0.097591	-0.085598	-0.269881	-0.303258	-0.284228	-0.090839	-0.14673	-0.177008		Flux/Min
-	15	88.9	33	28	22 1.			-0.222399									0.5	5
-	16	81.7	36	25	14 1.			-0.36424										
-	10	79.5	49	34	13 17.			-0.448323				0.0143171						0
-		79.5	51	42	33 18.			-0.477954			0.1825324			-	-			1 3 5 7 9 11 13 15 17 19 21 23 25 27
-	18			39	22 8.			-0.477934			0.4376294						-0.	
-	19	74.5	56					-0.385471			0.4376294		0.6025635			-0.140535		
-	20	72.6	55	43		2 0										0.0012103		1 PaA/Max
_	21	71	60	45	29 11.		/	-0.259297				0.5536061					0.5	
-	22	71.5	55	39	22 7.			-0.038857	the second data and the se		0.2163916							
	23	71.4	39	29	19 6.		22 Day	0.2093061			0.0189245					0.2498848		0
	24	71.4	47	34	21 1.		23 Day	and the second second second second	0.3984643				and the second s	the state of the s		0.3553866	-0.5	5 1 3 5 7 9 11 13 15 17 19 21 23 25 27
	25	72	52	39	25 1.		24 Day		0.5169977							0.4330609		
	26	72.6	41	35	29 1.		25 Day	0.6286737	0.6099909							0.5472238		1
	27	72.1	38	36	33 4.	4 (26 Day		0.6561655							0.6120639		1
	28	71.8	37	32	27 2	1 () 27 Day	0.6460463	0.6692592	0.6425101	0.1251262	0.1973377	0.2505752	0.5738317	0.6449868	0.6714557	0.!	PaA/Avg
	29	72.1	39	30	21 1	.6 (28 Day	0.5614787	0.6001562	0.6005053	3 0.0091224	-0.030745	-0.065362	0.5104097	0.5763833	0.6098435	0	\sim /\^
	30	75	47	36	25 2	.4 (29 Day				-0.100295					0.5945526		0
	31	76.7	42	34	25 2	.4 (30 Day	0.2934496	0.3921252	0.4523611	-0.242898	-0.221006	-0.173888	8 0.2805304	0.410988	0.5016365	-0	5 1 3 5 7 9 11 13 15 17 19 21 23 25 27
n	1		31	24	17													
	2		25	17	9												-	1
1	3		37	24	11													1
-	4		50	38	25					1								PaA/Min
-	5		67	57	46	-		Flux - Solar	Flux at Eart	h							0.	5
-	6		71	64	56			and the second s	tary A Index									0
-	7		68	62	55				pot number									E 1 3 5 7 9 11 13 15 17 19 21 23 25 27
-	8		59	46	33			Spor Sun	pornamber	Jotar							-0.	5
-			49	37	24													1
+	9		49	37	31	-								-				
-	10					-		lanuanute	mperatures	re shown h	ecause of the	31 days of	elay uses la	nuary numb	ers		- 1 T	Spot/Max
-	11		48	36	24			January te	inperatures	are shown b	ecause of the	s or uays of t	ieidy uses Ja	inuary numb	ers.		0.5	~
_	12		47	38	28										Superat	anhs are off est	0	~ / `
-	13		33	29	24		-									aphs are off set		
	14		40	32	23											days to make	-0.5 1	3 5 7 9 11 13 15 17 19 21 23 25 27 29 3
	15		47	32	17			_								time the solar	-1	
	16		50	41	32										wind reach	ed earth.	-	
	17		38	27	15												1 -	
	18		42	29	16									-			0.5	Spot/Avg
	19		21	14	7												0.5	- /
	20		32	21	10			by Dr. Cliff	L. House, Er	nertius Facu	Ity Missouri	State Univers	ity				0	
	21		35	28	20												-0.5 1	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29
	22		32	22	12													
-	23		37	24	10												-1 -1	
-	24		24	15	5												1 -	
	24		32	23	14											1		Spot/Min
_				37	24												0.5	~
-	26		50														- 0	\sim
_	27		60	40	19		-			-				-	-	+		
	28		65	54	42	_											-0.5	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29
	29		66	41	16												-1-1	
	30		43	27	11									1			-1	

ionth of Ja					re and Solar Ra			51	Fl	Wichita, ka		A	A /	Carton	C	Carab (b.d)		
	Flux	Max	Temp Avg	Temp Min	Temp Spot Area	Sunspots	Delay	Flux/Max	Flux/Avg	Flux/Min	Area/Max	Area/Avg	Area/Min	Spot/Max	Spot/Avg	Spot/Min		I Flux/Max
																	0.5	
nuary	1	69	49	38	20	0	0 0 Day	-0.13246	-0.15611	-0.16602	A sold many or a state of the state		0.041285		Color	the second		
	2	70	53	38	22	0	0 1 Day	-0.0705	-0.06795	-0.03748	0.069595	0.038856	-0.02649	0.017064	-0.00728	-0.04777	C	
	3	70	54	39	23	0	0 2 Day	0.04916	0.05025	0.048839	-0.03094	-0.11123	-0.23653	-0.01804	-0.1051	-0.2482	-0.5	1 3 5 7 9 11 13 15 17 19 21 23 25 27 2
	4	69	30	24		0	0 3 Day	0.346791	0.330107		-0.04466	-0.13151	-0.25824		-0.1703	-0.29481	-0.5	7
	5	69	36	27		0	0 4 Day	0.324899	0.369302		-0.34522	-0.39941	-0.4095	-0.2608		-0.39506	-1	1
	6	69	39	29		0	0 5 Day	0.097234	0.151986			-0.30379	-0.34172			-0.29023		
								-0.15994	-0.09882				-0.10571			-0.05028		1 Flux/Avg
	7	69	52	42		0	0 6 Day										0	0.5
	8	69	50	37		0	0 7 Day	-0.30582	-0.25009				0.212362			0.173761		$ \land \land \land \lor \land$
	9	70	61	43			14 8 Day	-0.31448	-0.28121				0.232958			0.174331		
	10	71	35	27	and the second design of the second distance		17 9 Day	-0.39341					And the second sec	the second s	and the second se	0.106416	-0	0.5 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29
	11	70	53	37	20 5	50	20 10 Day	-0.49734	-0.47552	-0.37362	0.075881	0.076475	0.063798	0.057084	0.065278	0.068937		-1
	12	69	52	36	20 1	10	12 11 Day	-0.26733	-0.31672	-0.33963	0.095847	0.060307	0.002389	0.035958	-0.00268	-0.05774		
	13	71	37	24		LO	11 12 Day	-0.15864			-0.02331	-0.04791	-0.08786		-0.06639	-0.1155		1
	14	71	45	30	15	0	0 13 Day	-0.12287	-0.19088	and the second sec		-0.29908	-0.23121			-0.2058		Flux/Min
		71	15	11	7	0	0 13 Day	-0.03784			-0.51125	-0.44291	-0.28868			-0.37127	0	.5
	15							and the second sec	and the second second second		-0.66566							0/
	16	71	38	25	11	0	0 15 Day	-0.0757					-0.37576			-0.50471		
	17	72	58	40	21	0	0 16 Day	-0.12398					-0.46998			-0.56198	-0	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29
	18	71	62	48	34	0	0 17 Day	-0.13187	-0.21117		-0.37323		-0.54516			-0.51064		-1
	19	71	54	42		10	13 18 Day	0.079701	-0.06409				-0.33732			-0.30725		•
	20	70	44	36	28	0	0 19 Day	0.227743	0.133212	-0.01135	0.091142	-0.03343	-0.19565	0.153225	0.026893	-0.1462	1	
	21	69	59	41	22	0	0 20 Day	0.382457	0.367915	0.295536	0.227154	0.133787	-0.02116	0.208219	0.144355	0.033428		SunSpot Area/Max Temp
	22	69	60	43	26	0	0 21 Day	0.492227	0.507809				0.038335			0.065612	0.5	
	23	70	42	31	19	0	0 22 Day	0.506112	and the second se	and the second state of th	0.04529	and the second sec	-0.09317			-0.0791	0	>
	23	69	27	19	11	0	0 23 Day	0.448246									-	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31
																	-0.5	1 3 3 / 9 11 13 15 1/19 21 23 25 27 29 31
	25	70	24	22	19	0	0 24 Day	0.216168					-0.25795				-1	
	26	70	20	18	16	0	0 25 Day	0.114271	and the second second second second	and so have a side of a long of the second		Contraction of the second s	-0.09612	and the second state of th		-0.02739		
	27	70	17	13	9	0	0 26 Day	0.075482					0.172369			0.166239	1	
	28	70	43	23	3	0	0 27 Day	0.031199	Contract of the second s						and the second se	the second s	- 0.5	SunSpot Area/Ave Temp
	29	69	46	33	20	0	0 28 Day	0.197803	0.259976	0.293806	0.389318	0.49376	0.557369	0.423941	0.532405	0.599305		-
	30	69	60	40	20	0	0 29 Day	0.105481	0.248482	0.396729	0.358339	0.516298	0.659321	0.438761	0.591642	0.716128	0	
	31	69	71	49	26	0	0 30 Day			0.247212					0.399795		-0.5	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31
ebruary	1	70	52	40	28	0	0							1			-0.5	
ebruary		69	48	33	18	0	0										-1	
	2				18					-								
	3	69	38	28		0	0										1	SunSpot Area/Min Terms
	4	70	43	28	12	0	0	-	L								0.5	SunSpot Area/Min Temp
	5	70	69	48	27	0	0		r Flux at ea								-	\sim
	6	70	74	58	41	0	0	Spot Area	- Sunspot a	rea 10E-6 H	emis.						0	XIX
	7	71	70	55	40	0	0	Spot - Sun	spot numb	er.							-0.5	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31
	8	71	69	58	46	0	0						1000000000					
	9	71	67	58	49	0	0										-1	
	10	68	72	55	37	0	0	1				1						
		70	53	44			11	February	data is show	n because	he 31 dave	of delay use	Eebruar	dates			1	Spot/Max
	11							rebruary	uata is Show	in because	ane SI uays	ueray use	stebruary	duces.			0.5	
	12	70	56	45		10	11		10		1	0.11.11	L		6		- 0	
	13	70	56	42		10	11	U.S. Dept.	of Comme	rce, NOAA, S	pace Weat	her Predictio	n center			rea and number	U	
	14	70	44	33	21	0	0	1	2012/10/2012							by about 3 days	-0.5	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31
	15	70	43	33	23	0	0									o for the time	-1	~
	16	70	51	38	25	0	0								the solar w	vind reaches	-1	
	17	71	74	59	44	0	0								earth		1	
	18	70	53	40	26	0	0										li comme	Spot/Avg
	19	69	53	36	19	0	0			1							0.5	~
			64	45	26	0	0	by Dr. Clif	f L House	Emoritus Fo	ulty Misso	uri State Uni	orsity				0	$\sim \sim \sim \sim$
	20	69						by Dr. Clif	L. House,	Linenius Fa	VIISSOL	in state Ohr	VEISILY	-				1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31
	21	71	42	32	21	0	0										-0.5	1 3 3 / 9 11 13 15 1/19 21 23 25 27 29 31
	22	70	51	36	20	0	0											·
	23	71	58	45	31	0	0										-1	
	24	71	61	50	39	20	12						1				1	The second s
	25	71	76	56		10	14											Spot/Min
	26	70	69	49		10	12										0.5	\sim
	27	69	39	29	19	0	0	-		1							0	> n al
		09	39												-			
		74	24	21														
March	28	71 69	31 36	21	11	0	0										-0.5	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31

lonth of	July,	2009 C			rature and s						Wichita, ka								
		Flux					rea Sunspots	Delay	Flux/Max	Flux/Avg	Flux/Min	Area/Max	Area/Avg	Area/Min	Spot/Max	Spot/Avg	Spot/Min	1	Flux/Max
																		0.5	
1	1		68	90	79	68	0 0	0 Day	-0.38723	-0.18279	-0.13507	-0.10986	-0.10331	0.04774	-0.12955	0.03985	0.104175		
	2		67	90	78	66	0 0	1 Day	-0.20751	-0.17089	-0.08524	0.101003	0.101304	0.250501	-0.07818	0.057676	0.145425	0	
	3		67	96	84	72	60 17	2 Day	0.177267	-0.00296	0.130446	0.282502	0.263483	0.391466	0.111458	0.159494	0.233385	-0.5	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29
	4		71	89	80	71	100 24	3 Day	0.346252	0.267508	0.380607	0.506675	0.462204	0.568702	0.347293	0.270386	0.430532	-0.5	~
	5		72	73			170 26	6 4 Day	0.474253	0.406735	0.584046	0.582096	0.560948	0.694979	0.544822	0.481567	0.643654	-1	
	6		70	86			160 23		0.573809				0.772203	0.761208	0.666661	0.629511	0.740758		1
	7		71	84			180 21		0.533621			0.632041	0.690406			0.70676	0.72181		Flux/Avg
	8		71	88		70	190 18		0.460406				0.553018			0.6738	0.608	0.5	5
	9		69	96		70	230 15		0.283031								and an end of the second se	(0
	10		68	100		78	60 13		0.12578					the second			and the second se		5 1 3 5 7 9 11 13 15 17 19 21 28 25 27 29
	11		68	98		76		0 10 Day	0.064635			-0.0617	-0.07726			0.101117		-0.5	· · · · · · · · · · · · · · · · · · ·
	12			103		74	And and the second seco	0 11 Day	-0.06901	-0.08379		-0.14535	-0.165				-0.03688	-:	1
			68										-0.29617						
	13		67	94		74			-0.08997	-0.13637									1 Flux/Min
	14		67	107		76		0 13 Day	-0.06129				-0.31708			-0.30283	-0.29965	0.5	
	15		67	89		70		0 14 Day	0.072421						-0.19427				
	16		67	90		68		0 15 Day	0.226955			and the second second second second	Contraction in the second seco				-0.27642	`	
	17		66	83		64		0 16 Day	0.095564			-0.13913				-0.20068	-0.24005	-0.5	5 1 3 5 7 9 11 13 15 17 19 21 23 25 27 2
	18	3	67	85		63		0 17 Day	-0.09911		0.004944						and the second second second second second second second second	-	1
	19	9	68	88	75	61	0	0 18 Day	-0.02636							-0.12099			•
	20)	68	87	76	65	0	0 19 Day	0.124753	0.086885	0.010296	-0.0923	-0.09063	-0.05899	-0.05653	-0.10531	-0.13471	1	
	21		68	83	74	64	0	0 20 Day	-0.17195	-0.10848	0.019823	-0.22608	-0.17873	-0.0524	-0.12856	-0.11299	-0.04883		SunSpot Area/Max Temp
	22		68	87		60	0	D 21 Day	-0.44982	-0.35933	-0.13526	-0.31581	-0.25729	-0.10158	-0.21735	-0.17228	-0.06144	0.5	/ \
	23		68	90		63		0 22 Day	-0.35234							-0.24625	-0.09877	0	1 Dan P
	24		68	94	a production of the second s	64		0 23 Day	-0.47379							-0.33721	-0.274		1 3 5 7 9 11 13 15 17 19 21 29 25 27 29 3
- 0	25		69	82	77	72		0 24 Day	-0.56985									-0.5	, , , , , , , , , , , , , , , , ,
				91	79	66		0 25 Day	-0.481							-0.37844		-1	
	26		68													-0.27302			
	27		68	91	80	68		0 26 Day	-0.22811						the second s	and the second se		1	SunSpot Area/Ave Temp
	28		69	81	73	65		0 27 Day	-0.03825							-0.16876		0.5	/ /
	29		68	81	72	63		0 28 Day	0.003442										
	30	D	68	80	72	64		0 29 Day	0.071438		The second party in the second s			the second	and the second se	0.25275	The second card a second and and and and and and and and and a	- 0	
	3:	1	69	85	72	58		0 30 Day	0.225904	0.260764	4 0.247305	0.507489	0.556494	0.493604	0.487529	0.471728	0.364197	-0.5	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 3
ust	-	1	68	81	71	61	0	0						1				-1	
		2	68	86	71	56	0	0								1			
	1	3	67	96	81	65	0	0										1	
		4	66	96	83	70	0	0										0.5	SunSpot Area/Min Temp
		5	66	90	82	73	0	0	Flux - Sola	ar Flux at ea	rth.							0.5	/ \ /
		6	67	81	76	71		0			area 10E-6 H	emis.						0	
		7	68	98	86	73		0		spot numb	the second design of the secon							-0.5	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31
	-	8	67	99	88	76		0		1								-0.5	
	-	9	67	98	86	74		0							1			-1	
		-	67	92	80	67		0				-		-				1	
	1							0	August -	to is charm	hospuss	0 21 days -4	delayures	August date				1	Spot/Max
	1		67	90	77	64			August da	sta is showr	because th	e 51 days of	ueray uses	August date	55.			0.5	A
	1		67	92	78	63		0					Duradi	1		Cum Canat		- 0	
	1		67	91	77	63		0	U.S. Dept	. of Comme	rce, NOAA, S	space Weat	ner Predictio	on center			rea and number	- 1	
	1	4	68	90	79	67		0	-			-					by about 3 days	-0.5	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31
	1	5	68	89	81	73	0	0	_					-		and a start is a second se	p for the time	-1	
	1	6	69	94	85	75	0	0								the solar v	vind reaches	-	
	1		68	83	74	65	0	0								earth		1	
	1		67	79	73	67	0	0											Spot/Avg
	1		67	83	75	66	0	0										0.5	
	2		68	81	73	65	0	0	by Dr. Cli	ff L. House,	Emeritus Fa	culty Misso	uri State Uni	iversity				0	
	2		66	83	70	56		0			Т			1				-0.5	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 3
			67	81	67	53		0			-							-0.5	
		2						0											
		3	67	83	72	61		-											
		4	68	87	77	67		0						-				1	Spot/Min
		!5	67	92	81	70		0						-				0.5	
	2	.6	67	87	80	72		0	-										/ \ /
	2	27	68	83	75	67	0	0	-									0	
	2	8	68	85	72	59	0	0										-0.5	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31
		9	68	80	71	62	0	0											
							0	0										-1	

onth of Ja	anuary, 2				ture and Solar		-			Wichita, ka	1							
	Flux	Max	Temp Avg	Temp Mi	in Temp Spot A	rea Sunspots	Delay	Flux/Max	Flux/Avg	Flux/Min	Area/Max	Area/Avg	Area/Min	Spot/Max	Spot/Avg	Spot/Min	1	Elux/Max
																	0.5	
uary	1	75	31	22	13	120 1	6 0 Day	0.670326	0.576379	0.457221	0.557835	0.472319	0.422481	0.48567	0.364747	0.251348		\sim \sim
	2	78	19	14	9	190 2	2 1 Day	0.693761	0.650506	0.554446	0.500281	0.50978	0.485081	0.398898	0.416247	0.347967	0	
	3	76	19	17	14	220 2	0 2 Day	0.631983	0.650976	0.617659	0.443348	0.437458	0.454338	0.329443	0.430173	0.408504	-0.5	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29
	4	73	24	18	12	150 1	5 3 Day	0.54384	0.636711	0.609078	0.166788	0.348473	0.391046	0.147538	0.288517	0.32832	-0.5	\bigcirc
	5	77	26	23	20	90 1	.3 4 Day	0.468957	0.567728	0.540622	0.011074	0.215313	0.238759	-0.08646	0.127694	0.189937	-1	
	6	77	32	23	13	0	0 5 Day	0.34604	0.430602		-0.1286	0.004449	0.083347	-0.2105	-0.0335	0.085125		1
	7	78	15	11	6		5 6 Day	0.271855								0.006941		Elux/Avg
	8	77	18	10	1		4 7 Day	0.18768	0.274596		a series of the property of the series of the			-0.0964	· · · · · · · · · · · · · · · · · · ·	0.016138	0.	5
	9	82	21	11	0	and the second se	0 8 Day	0.20422				and the second second second second second second	and the second se	0.148786	-0.00641	0.024399		0
	10	84	41	22	and the second se		15 9 Day	0.168213		0.364114								5 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29
	11	91	47	33			10 Day	0.202485		0.352505								,
				28	and the second se		10 Day	0.227472	0.312664						0.3972			1
	12	93	33	41		and the second se	1 12 Day	-0.02924	0.12858	The second s		- Include Print Pr	and the second se					
	13	91	56			and the second se			-0.04488									1 Flux/Min
	14	90	44	38			34 13 Day	-0.24907									0.5	
	15	85	42	37		and a subject of the subject of the subject of the	26 14 Day	-0.42058	-0.21608	a second s	-0.45509				-0.11887	-0.10309		
	16	84	48	38			24 15 Day	-0.63974	-0.41862						-0.4435	-0.41183		
	17	83	49	38			16 16 Day	-0.68707	and the state of t							-0.63005	-0.	5 1 3 5 7 9 11 13 15 17 19 21 23 25 27 2
	18	82	42	37			17 Day	-0.66439								-0.72869		1
	19	84	47	42	36	0	0 18 Day	-0.67199	-0.64502	-0.52646	-0.39436	-0.50359	-0.4813	-0.4342	-0.57097	-0.62161		
	20	82	49	42	34	60	16 19 Day	-0.54625	-0.60214	-0.4831	-0.14947	-0.22487	-0.17204	-0.15386	-0.29463	-0.35012	1	
	21	83	39	37	34	190	17 20 Day	-0.34544	-0.40934	-0.3585	0.140658	0.136201	0.158727	0.027857	0.000995	0.017982		SunSpot Area/Max Temp
	22	82	59	47			30 21 Day	-0.19219	-0.23046	-0.16572	0.242519	0.223712	0.315791	0.179562	0.055471	0.143681	0.5	7 ~
	23	85	56	49	41		40 22 Day	-0.02024		and the second data			0.327889			0.317064	0	VIM
	23	85	46	38	30		32 23 Day	0.21807		0.224277			0.255765			0.280805		1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 91
	24	81	40	35	28		34 24 Day	0.279759		0.336882			0.177773		and the second second second second	and the second state and state and the state of the second state of the	-0.5	
					28	and here when the second se		0.279739								0.292215	-1	
	26	80	41	31												0.139786		
	27	78	23	42	30		15 26 Day	0.165378									1	SunSpot Area/Ave Temp
	28	76	30	25	20		13 27 Day	-0.0421							the second s	0.04596	- 0.5	
	29	73	21	19	17		12 28 Day	-0.14519								-0.19855	14 Annual	
	30	75	28	19	9		25 29 Day	-0.20547						-0.317		-0.29532	0	
	31	75	26	19	11		14 30 Day	-0.09187	-0.23271	-0.31786	-0.36575	-0.42253	-0.35174	-0.28655	-0.40234	-0.42498	-0.5	1 3 5 7 9 11 13 19 17 19 21 23 25 27 29 31
uary	1	75	32	29	25	70	16										_	
	2	75	41	33	22	50	11										-1	
	3	74	39	32	25	50	11										1	
	4	74	37	35	33	20	11											SunSpot Area/Min Temp
	5	78	39	36	32		22	Flux - Sola	r Flux at ea	rth.							0.5	$\gamma \land \land$
	6	88	41	37	32		30	and the second se		rea 10E-6 H	lemis					and the second sec	0	
	7	90	36	34	32		51		spot numb								-	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31
					13		71	Spor - Sun		1	+						-0.5	
	8	94	34	24										-	-		-1	
	9	91	31	23	14		63											
	10	91	28	18	7		55		<u> </u>	L	1						1	Spot/Max
	11	94	39	33	26		64	February	data is show	vn because f	the 31 days	of delay use	es February	dates.			0.5	Sportman
	12	96	46	35	24		38		1		1							$1 \cap \cap$
	13	94	55	42	28		37	U.S. Dept	. of Comme	rce, NOAA, S	Space Weat	her Predicti	on center	-		rea and number	0	
	14	89	34	29	24	80	28					1			are off set	by about 3 days	-0.5	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31
	15	88	37	30	22	50	27								to make up	p for the time		~
	16	87	35	29	23	50	28								the solar w	vind reaches	-1	
	17	87	46	32	18		49								earth		1	
a sublineer and	18	85	57	43	28	60	17						1				-	Spot/Avg
	19	84	49	41	32	60	23										0.5	2 0 1
	20	84	35	33	31	60	19	by Dr. Clif	ff1 House	Emeritus Fa	culty Misso	uri State Un	iversity				0	\bigvee
			a design of the second s		27	50	19	Sy Dr. Chi	i i nouse,	Lineinus Fa	curry wii350	in state on	it crarcy				-	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 91
	21	84	33	30	and the second se		4 *** k. 1 **										-0.5	
	22	84	31	27	22		14										-1	
	23	84	37	27	16	30	31		-		1		4		-			
	24	83	39	27	14	120	40		-		-						1	and the state
	25	83	47	36	25	30	30										0.5	Spot/Min
	26	81	52	47	29	70	26				1 means						0.5	$ \land \land \land$
	27	79	49	39	28	30	26										0	
	28	78	50	40	29	10	13										-0.5	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31
	20		44	37	30	50	36	-			1			-			-0.5	United and the second s
rch	1	78																

Figure 14.

Month of					and Solar R					Witchita, k								
	Flux	Max	Temp Avg Te	emp M	in Temp Spo	t Area Sunspot	s Delay	Flux/Max	Flux/Avg	Flux/Min	Area/Max	Area/Avg	Area/Min	Spot/Max	Spot/Avg	Spot/Min	1	1 Flux/Max
																	0.5	
y	1	73	90	79	68		11 0 Day		0.694628		0.281144			0.48908	0.473532	0.352974		
_	2	73	89	80	71		11 1 Day	0.701123	0.679614	0.521098	0.285502	0.338679	0.4037	0.424869	0.424692	0.369703	0	0
	3	72	80	77	73		11 2 Day	0.691725	0.679864	0.551581	0.317487	0.353777	0.386028	0.279118	0.269007	0.22227	.0.5	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 3
	4	72	79	74	69	110	11 3 Day	0.61018	0.607014	0.529978	0.270406	0.248345	0.185665	0.184121	0.187275	0.203276	-0.5	,
	5	73	82	75	68	110	23 4 Day	0.54602	0.506881	0.375501	0.180372	0.135906	0.060812	0.251295	0.194726	0.04769	-1	1
	6	73	88	78	67	120	23 5 Day	0.492332	0.464729	0.341862	0.172132	0.086985	-0.08466		0.212826			1
	7	74	84	78	71		22 6 Day	0.449751		0.323538	-0.0061	-0.0476		0.278716				Elux/Avg
	8	76	81	76	71	and the second s	11 7 Day	0.425612			-0.08757	-0.03512					0	0.5
	9	80	86	78	69		12 8 Day	0.429746			-0.01952	0.081438						0
	10	80	89	78	67	Construction of the second second	18 9 Day	0.482795					0.22985					1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 3
	11	83	94	84	73		25 10 Day	0.539391		0.55957				and the state of the second se		the second data is interested of second data when the second data and the	-0	0.5 1 3 3 7 9 11 13 13 17 19 21 23 23 27 29 3
	12	80	92	81	70				the second s									-1
	13		97					0.546683	0.621898			0.617468		0.49132				The second se
	-	79		84	71		28 12 Day	0.499635	0.54369			0.578132	0.404886		0.277833			1
	14	78	98	88	78	A REAL PROPERTY AND ADDRESS OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER	16 13 Day	0.466113			0.460422		0.19051		0.167025		0	0.5 Flux/Min
	15	76	91	82	73		15 14 Day	0.307882				0.198177	-0.02136					
	16	77	95	84	73		17 15 Day	0.049937	0.051622	0.040044	-0.04492	-0.0461	-0.05179	0.116571	0.182648	0.236439		0
	17	79	99	86	72	20	13 16 Day	-0.06382	-0.07329	-0.09124	-0.17394	-0.16174	-0.14394	0.030165	0.106596	0.229431	-0	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 3
	18	77	100	86	72	10	12 17 Day	-0.05255	-0.08934	-0.20555	-0.37081	-0.36887	-0.36105	0.174104	0.170792	0.06925		
	19	80	101	89	76	140	25 18 Day	-0.02696		-0.19494	-0.26959	-0.30513	-0.39106		0.163325			-1
	20	87	99	88	76	160	32 19 Day	0.048156		-0.12624		-0.22585	-0.27757		0.218891		- hereinen	
	21	89	98	87	76		38 20 Day	0.065687	0.0276					0.150904			_ 1	SunSpot Area/Max Temp
	22	88	99	88	77		39 21 Day	0.117223		-0.10084			-0.18719		and the second sec	-0.12127	0.5	
	22	86	100	89	78		45 22 Day	0.117223		-0.10084		0.008145	-0.18/19				-	\sim $()$ =
	23	85	100	88	78											-0.26141	0	
							41 23 Day	0.037231		-0.1046		-0.04435	-0.08926				-0.5	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31
	25	85	92	81	70		39 24 Day	-0.14608				-0.39084	-0.41763					\checkmark
	26	84	95	83	71		39 25 Day	-0.39179		-0.42349	-0.62242	-0.62115	-0.54631	-0.46757	-0.42006	-0.2883	-1	
	27	83	93	83	73	70	15 26 Day	-0.5745	-0.58106	-0.52562	-0.75049	-0.75805	-0.68338	-0.43172	-0.42412	-0.34805	1	
	28	85	95	84	72	270	31 27 Day	-0.63085	-0.62077	-0.52992	-0.77004	-0.80736	-0.76264	-0.4062	-0.39496	-0.32785		SunSpot Area/Ave Temp
	29	85	93	83	73	350	31 28 Day	-0.55444	-0.57195	-0.52056	-0.45616	-0.56014	-0.62052	-0.20333	-0.21551	-0.19048	0.5	- /
	30	83	101	88	74	210	29 29 Day	-0.46483	-0.50224	-0.49696	-0.25414	-0.339	-0.40982	-0.24516	-0.25434	-0.22898	0	\sim
	31	82	100	89	77	230	12 30 Day	-0.34231	-0.39865	-0.4381	-0.0514		-0.1822					1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31
gust	1	80	100	88	76		13	0.0,1202	0.05005	011001	0.0511	0.10050	ULLOLL	0.25500	0.20450	0.23330	-0.5	
Base	2	79	108	93	78		17										-1	
	3	81	109	92	75	and the second se	13	-										
	4			88													1	for the state with the Town
		81	100		76		27			1							0.5	SunSpot Area/Min Temp
	5	83	94	85	76	the second se	54		r Flux at ear		1							
	6	82	94	84	73		49		- Sunspot a		emis.						0	
	7	91	97	86	74		47	Spot - Sun	spot numbe	er.							-0.5	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31
	8	83	105	91	77		46	1										\sim
	9	84	103	90	76	380	53										-1	
	10	84	103	91	78	210	56										1	
	11	86	105	90	75	200	66	February of	data is show	n because t	he 31 days d	of delay use	s June num	bers.				Spot/Max
	12	84	106	91	75		50							T			0.5	1
	13	84	109	94	79		51	U.S. Dent	of Commer		nace Weath	er Predictio	n center		SunSpot a	rea and number	0	~ ~~
	14	85	103	88	73		31	0.0. Dept.	conner		pace wedti	e, rieulettu	in center				-	1 2 5 7 0 11 12 15 17 10 21 22 27 27
	15	86	87	78	68		33									by about 3 days	-0.5	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31
																p for the time	-1	
	16	85	90	79	67		39									vind reaches		
	17	81	77	72	67		26								earth		_ 1	Fact/Aug
	18	81	89	79	69		23										0.5	Spot/Avg
	19	78	94	80	66		11										0.5	
	20	77	99	88	77		11	by Dr. Clif	f L. House, E	meritus Fac	ulty Missou	ri State Univ	versity				0	
	21	76	97	85	72	0	0										-0.5	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31
	22	75	95	85	74	0	0											
	23	75	97	85	73	0	0										-1	
	24	74	83	75	66		11											
	25	74	83	70	57	and the set of the second s	23	-									1	Spot/Min
																	0.5	~
	26	73	83	71	58		23										-	212
	27	73	87	73	58		11										0	
	28	72	90	75	59		11										-0.5	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31
	29	74	92	81	69	170	25				-							
	30	75	92	83	73	180	28										-1	development and the second

Month of A	August, 2			emperature						Witchita, k								
	Flux	Max	Temp Avg	Temp Min Te	emp Spot Ar	rea Sunspots	Delay	Flux/Max	Flux/Avg	Flux/Min	Area/Max	Area/Avg	Area/Min	Spot/Max	Spot/Avg	Spot/Min		1 Flux/Max
																	0.	.5
gust	1	80	100	88	76	290 1	.3 O Day	0.437498			0.433124		and the second sec	0.317324				
	2	79	108	93	78	280 1	7 1 Day	0.40958	0.454972	0.472682	0.495132	0.538121	0.508234	0.366335	0.379538	0.338467		0
	3	81	109	92	75	190 1	.3 2 Day	0.396832	0.449983	0.4719	0.583366	0.577944	0.488686	0.476033	0.466108	0.386549	-0	5 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29
	4	81	100	88	76	280 2	7 3 Day	0.42841	0.456723	0.455831	0.534469	0.521401	0.444159	0.551532	0.48881	0.3679	-0.	.5
	5	83	94	85	76	430 5	4 4 Day	0.44154	0.468584	0.467758	0.579917	0.544999	0.447348	0.389179	0.397826	0.369619		-1
	6	82	94	84			9 5 Day	0.427466										1
	7	91	97	86			7 6 Day	0.350989										Flux/Avg
				91			6 7 Day		0.395592		0.517074		0.434686					0.5
	8	83	105								0.374366		0.463375			and the second se		0
	9	84	103	90			3 8 Day	0.150728										0.5 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 5
	10	84	103	91			6 9 Day	0.130124		0.256732			0.374346					0.5 1 5 5 7 9 11 15 15 17 19 21 25 25 27 29 5
	11	86	105	90			56 10 Day		0.055855				0.313867					-1
	12	84	106	91			50 11 Day		0.117288				0.368332					and a second
	13	84	109	94	79	120	51 12 Day	0.137761			0.153686		0.355335			and the second se		1
	14	85	103	88	73	150	31 13 Day	0.211871	0.235064	0.203054	0.165044	0.256801	0.301387	0.053032	0.172027	0.242115		0.5
	15	86	87	78	68	130	33 14 Day	0.209656	0.214759	0.167294	0.243641	0.329765	0.342235	0.127546	0.179868	0.181892		0.5
	16	85	90	79	67	100	39 15 Day	0.169663	0.205319	0.18208	0.236536	0.342283	0.361479	0.148633	0.176535	0.149572		0
	17	81	77	72	67		26 16 Day	strength and the Artist strength and the					0.269366					0 5 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29
	17	81	89	72	69		23 17 Day				0.167386		0.172289			and the second		
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Why, Study These Patterns?

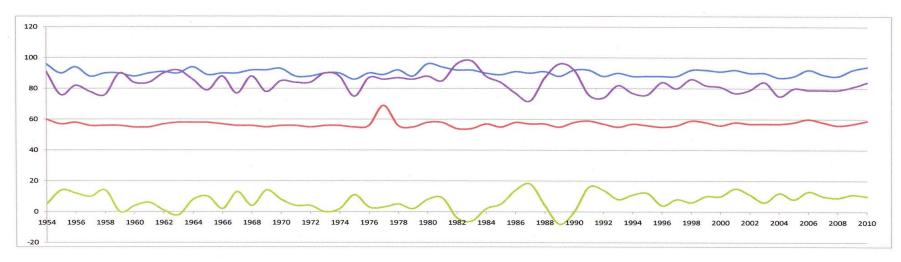
An example: After Katrina hit New Orleans, the general word on the popular press was that it was just the beginning of several years of really devastating hurricanes. It was a topic of discussion at Missouri State University. Studying cycles and cycles with in cycles the data suggested little Hurricane activity would be present for a number of years. Was this forecast bases on understanding the weather system of the earth, as it should have been. Unfortunately not, it was based on studying the heart beat or rhythm of hurricanes.

Patterns can be helpful or may lead to a better understanding of how our weather system works. There are so many factors that determine the earth's weather, none can be overlooked. Example: The movement of air is modified by the surface it is passing over, is a huge factor. There are so many factors to factor out it is difficult to identify just a small number. As a result, the understanding of weather and weather forecasting is difficult at best. Little by little we are gaining on the mystery. As break through's are made, it will still be difficult to alter, change, or modify the earth's weather.

Conclusion

The weather machine of the earth is perhaps one of the most difficult studies earthlings have encountered. It appears to have far more unknowns than the human body. Hopefully researchers will not give up on their quest to discover earlier warnings to hazardous weather situations. Altering the weather to fit a significant quality of life may not be a possibility for a long long time. From the press release July 26, 2011, Dr. Roy Spencer, research scientist, NASA, Earth System Science Center, University of Alabama, states the following: "Data from NASA's Terras satellite shows that when the climate warms, earth's atmosphere is apparently more efficient at releasing energy to space than models used to forecast climate change than has been programmed to believe. The result is climate forecasts that are warming substantially faster than the atmosphere." This concept rides parallel with the weather extremes that we have experienced since solar cycle 24 has remained low in solar activity. The following are miscellaneous items that relate to this paper.

Annual Maximum, Average, and Minimum Temperatures for Wichita, Kansas.





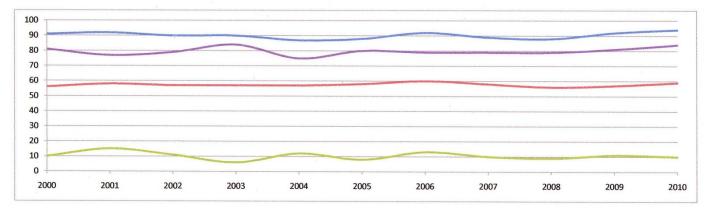
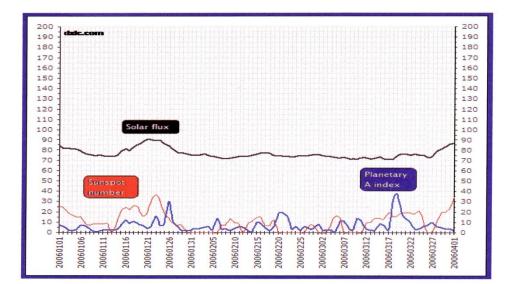


Figure 18

Solar Activity Minimum and Maximum



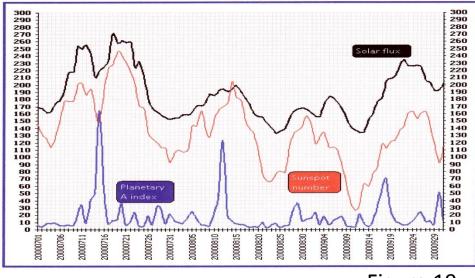
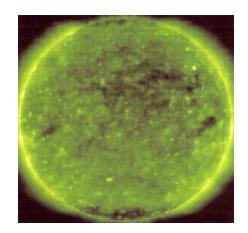
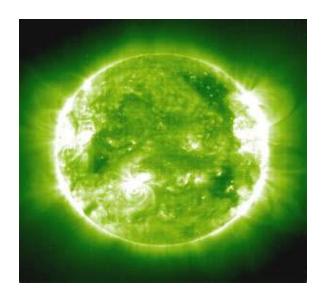
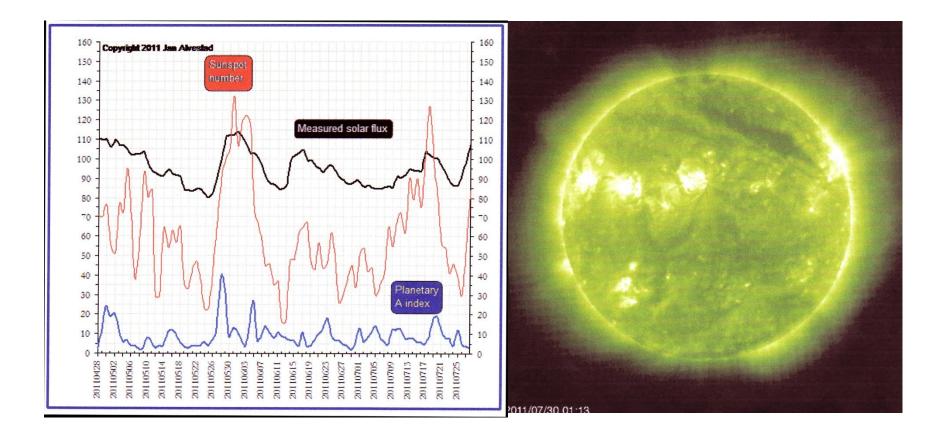


Figure 19.





Solar Activity May Through July 2011



The End