Atmospheric conditions during solar radiation measurements. Blue Hill Observatory of Harvard University, April 1936

Date and time from apparent noon	Air temperature	Wind, Beaufort scale	Visibility (scale 0–10)	Sky blueness	Cloudiness and remarks
	° C.				
4; 0.15 a. m.	+2.4	WNW 5	9	8	1 Frcu, wind gusty.
22; 2.13 a. m.	+4.6	W 5	9	8	2 Ci, few Cu.
23; 3.03 a. m.	+5.7	NW 4	8	8	5 Ci, light haze.
23; 1.34 p. m.	+12.6	W 3	9	7	1 Ci, few Cu; light haze.
24; 3.38 p. m.	+6.7	NW 5	10	8	Few Cu, light haze N.
25; 3.13 a. m.	+3.5	NW 2	9	8	Few Ci, mod. haze NE.
27; 3.56 a. m.	+4.3	NW 4	9	8	Zero clouds, light haze.
27; 0.08 a. m.	+8.7	NW 3	9	8	Zero clouds, light haze.

POSITIONS AND AREAS OF SUN SPOTS

[Communicated by Capt. J. F. Hellweg, U. S. Navy (Ret.), Superintendent U. S. Naval Observatory. Data furnished by the U. S. Naval Observatory in cooperation with Harvard and Mount Wilson Observatories. The difference in longitude is measured from the central meridian, positive west. The north latitude is positive. Areas are corrected for foreshortening and are expressed in millionths of the sun's visible hemisphere. The total area for each day includes spots and groups]

MEAN DAILY AREA FOR 30 DAYS, 944

Date	Eastern standard time		Heliographic: Diff. in longitude	Heliographic: Longitude	Heliographic: Latitude	Area: Spot	Area: Group	Total area for each day	Observatory
1936	*h*	*m*	°	°	°				
Mar. 1	13	5	−30.0	273.0	+24.0		187		Harvard.
			−21.0	282.0	−15.5		143		
			+16.0	319.0	+11.5	158			
			+79.5	22.5	−35.0	119		607	
Mar. 2	12	45	−55.0	234.9	+17.0		85		Mt. Wilson.
			−21.0	268.9	+21.0		109		
			−10.0	279.9	−18.0		122		
			+26.0	315.9	+12.0	97			
			+27.0	316.9	+18.0	52		465	
Mar. 3	13	3	−39.5	237.1	+19.5		123		U. S. Naval.
			−8.0	268.6	+21.0		123		
			+3.0	279.6	−18.0		108		
			+39.5	316.1	+11.5	123			
			+41.0	317.6	+16.5	31		508	
Mar. 4	11	8	−27.0	237.5	+19.5		123		Do.
			+4.5	269.0	+21.5		123		
			+14.5	279.0	−18.0		123		
			+40.0	304.5	+24.0		31		
			+51.5	316.0	+12.0	123			
			+55.0	319.5	+16.5	15		538	
Mar. 5	11	30	−87.0	164.1	−24.0	53			Mt. Wilson.
			−15.0	236.1	+18.0		90		
			−8.0	243.1	+32.0		95		
			+9.0	260.1	+17.0		12		
			+14.0	265.1	+21.0		65		
			+27.0	278.1	−18.0		121		
			+64.0	315.1	+11.5	69		515	
			+68.0	319.1	+17.5	10			
Mar. 6	11	2	−74.0	164.2	−22.0	77			U. S. Naval.
			+1.0	239.2	+18.0	31			
			+8.0	246.2	+33.0		432		
			+29.0	267.2	+21.0	31			
			+29.5	267.7	+18.5		46		
			+40.5	278.7	−18.0		62		
			+79.0	317.2	+11.0	46		725	
Mar. 7	11	30	−60.0	164.7	−22.0	123			Do.
			+15.0	239.7	+17.5	31			
			+22.0	246.7	+32.5		494		
			+27.0	251.7	−21.5		154		
			+31.5	256.2	+18.0	15			
			+42.0	266.7	+21.0	31			
			+42.5	267.2	+18.5		154		
			+50.5	275.2	−19.5	31			
			+58.0	282.7	−17.0	15		1,048	
Mar. 8	12	50	−79.0	131.9	−22.0	15			Mt. Wilson.
			−60.0	150.9	−25.0		15		
			−47.0	163.9	−23.0	119			
			+30.0	240.9	+18.0	21			
			+32.0	242.9	+32.0		614		
			+40.0	250.9	−22.0		466		
			+57.0	267.9	+18.0		393		
			+59.0	269.9	+21.0	22			
			+64.0	274.9	−19.0	14		1,679	
Mar. 9	11	10	−68.0	130.6	−21.0	31			U. S. Naval.
			−35.0	163.6	−22.5	123			
			−18.5	180.1	+20.0		46		
			+41.0	239.6	+18.0	15			
			+47.0	245.6	+32.5		556		
			+53.0	251.6	−21.0		494		
			+67.0	265.6	+18.0		154	1,419	
Mar. 10	11	1	−79.0	106.5	−30.5		123		Do.
			−75.0	110.5	−21.0	31			
			−55.0	130.5	−21.0	15			
			−21.0	164.5	−23.0	108			
			−3.0	182.5	+20.0		108		
			+59.0	244.5	+32.5		494		
			+66.0	251.5	−22.0		617	1,496	
Mar. 11	11	40	−65.0	106.9	−33.0		168		Mt. Wilson.
			−64.0	107.9	−22.0		25		
			−61.0	110.9	−30.0		88		
			−37.0	134.9	−23.0		18		
			−9.0	162.9	−24.0	157			
			−2.0	169.9	+24.0		24		
			+12.0	183.9	+20.0		145		
			+13.0	184.9	−16.0		5		
			+68.0	239.9	+32.0		433		
			+76.0	247.9	−22.0		733	1,796	

POSITIONS AND AREAS OF SUN SPOTS—Continued

MEAN DAILY AREA FOR 30 DAYS, 944—Continued

Date	Eastern standard time		Heliographic: Diff. in longitude	Heliographic: Longitude	Heliographic: Latitude	Area: Spot	Area: Group	Total area for each day	Observatory
1936	*h*	*m*	°	°	°				
Mar. 12	11	40	−54.0	104.7	−32.0		253		Mt. Wilson.
			−49.0	109.7	−29.0		359		
			−47.0	111.7	−21.0		36		
			+4.0	162.7	−24.0		171		
			+15.0	173.7	+24.0		4		
			+24.0	182.7	−16.0	12			
			+26.0	184.7	+20.0	69			
			+85.0	243.7	−23.0	293			
			+89.0	247.7	+32.0	111		1,308	
Mar. 13	11	15	−39.5	106.3	−31.5		432		U. S. Naval.
			−36.0	109.8	−20.5		93		
			+18.0	163.8	−23.0	123			
			+39.0	184.8	+21.0	39		687	
Mar. 14	11	50	−43.0	89.3	+16.5		93		Do.
			−25.0	107.3	−31.0		370		
			−20.0	112.3	−21.0		46		
			+30.0	162.3	−22.5	123			
			+51.0	183.3	+21.0	31		663	
Mar. 15	12	30	−54.0	64.8	+18.0		15		Mt. Wilson.
			−30.0	88.8	+16.0		134		
			−18.0	100.8	−32.0	137			
			−10.0	108.8	−29.0		230		
			−7.0	111.8	−21.0		24		
			+42.0	160.8	−24.0	191			
			+68.0	186.8	−16.0	8		739	
Mar. 16	11	40	−16.0	90.0	+16.0		154		U. S. Naval.
			−0.5	105.5	−31.0		309		
			+7.0	113.0	−20.0	23			
			+56.0	162.0	−22.5		123	609	
Mar. 17	12	8	+11.0	103.5	−29.0		421		Harvard.
			+70.0	162.5	−23.0	241		662	
Mar. 18	12	50	−27.0	52.1	−7.0		23		Mt. Wilson.
			+5.0	84.1	−25.0		9		
			+20.0	99.1	−32.0		111		
			+23.0	102.1	−16.0		192		
			+30.0	109.1	−29.0		234		
			+78.0	157.1	−19.0	15		639	
			+80.0	159.1	−24.0	55			
Mar. 19	15	18	−10.5	54.0	−7.5		230		Harvard.
			+18.5	83.0	−26.5		117		
			+39.5	104.0	−16.0		368		
			+42.0	106.5	−29.5		387	1,102	
Mar. 20	13	28	−71.0	341.3	−18.0		247		U. S. Naval.
			+1.0	53.3	−9.0	23			
			+28.0	80.3	−29.0		340		
			+40.0	92.3	+13.5		77		
			+50.0	102.3	−18.0		216		
			+52.5	104.8	−30.5		216	1,119	
Mar. 22	11	18	−44.0	343.1	−18.0		247		Do.
			+24.0	51.1	−8.5		154		
			+53.0	80.1	−29.0		309		
			+66.0	93.1	+15.0		123		
			+75.0	102.1	−29.5		154		
			+80.0	107.1	−16.0	62		1,051	
Mar. 23	14	51	−29.0	343.0	−17.0		247		Do.
			−40.0	332.0	−8.5		93		
			+68.0	80.0	−29.0		370		
			+86.0	98.0	−30.5	23		733	
Mar. 24	10	34	−13.5	348.0	−17.0	240			Harvard.
			−11.5	350.0	−12.5	39			
			+70.5	72.0	+19.0	38			
			+71.5	73.0	+12.5	43			
			+83.5	85.0	−30.0	856		1,216	
Mar. 25	11	45	−58.0	289.3	−24.0	7			Mt. Wilson.
			−31.0	316.3	−29.0		22		
			−11.0	336.3	−16.0		29		
			−3.0	344.3	−19.0		272		
			−1.0	346.3	−15.0		35		
			+2.0	349.3	−11.0		5		
			+80.0	67.3	−23.0		33	403	
Mar. 26	15	35	−76.5	255.5	−19.0	209			Harvard.
			−67.0	265.0	−12.0		104		
			−44.0	288.0	−22.0		341		
			−1.0	331.0	−12.5		26		
			+7.5	339.5	−13.5		19		
			+14.0	346.0	−17.0	240			
			+17.0	349.0	−14.0	26		965	
Mar. 27	12	50	−74.0	246.4	−23.0		505		Mt. Wilson.
			−56.0	264.4	−15.0		147		
			−35.0	285.4	−25.0		361		
			+7.0	327.4	−14.0		23		
			+18.0	338.4	−15.0	7			
			+25.0	345.4	−18.0		214		
			+27.0	347.4	−15.0	8		1,265	
Mar. 28	10	57	−70.0	238.2	−24.5	154			U. S. Naval.
			−58.0	250.2	−21.0		108		
			−45.0	263.2	−15.0		154		
			−22.0	286.2	−25.0		309		
			+21.0	329.2	−14.5		123		
			+36.0	344.2	−17.5		247	1,095	
Mar. 29	12	6	−58.0	236.4	−24.0	185			Do.
			−46.0	248.4	−21.0		93		
			−32.0	262.4	−15.0		154		
			−8.5	285.9	−25.0		309		
			+36.0	330.4	−14.5		123		
			+50.0	344.4	−17.5		185	1,049	

POSITIONS AND AREAS OF SUN SPOTS—Continued

MEAN DAILY AREA FOR 30 DAYS, 944—Continued

Date	Eastern standard time	Heliographic: Diff. in longitude	Heliographic: Longitude	Heliographic: Latitude	Area: Spot	Area: Group	Total area for each day	Observatory
1936	*h m*	°	°	°				
Mar. 30	11 3	−43.0	238.8	−23.0		216		U. S. Naval.
		−30.0	251.8	−21.0		62		
		−25.0	256.8	+20.0		46		
		−17.0	264.8	−15.0		216		
		−2.0	279.8	−27.0		185		
		+11.0	292.8	−22.0		123		
		+48.5	330.3	−14.0		123		
		+63.0	344.8	−17.5		123	1,094	
Mar. 31	11 19	−30.0	238.4	−23.0		309		Do.
		−17.0	251.4	−20.5		31		
		−10.5	257.9	+20.0		123		
		−9.0	259.4	−13.0	15			
		−2.0	266.4	−15.0		185		
		+9.5	277.9	−26.0		123		
		+23.0	291.4	−22.0		185		
		+63.0	331.4	−15.0		93		
		+77.0	345.4	−19.5		62	1,126	

MEAN DAILY AREA FOR 30 DAYS, 812

Date	Eastern standard time	Heliographic: Diff. in longitude	Heliographic: Longitude	Heliographic: Latitude	Area: Spot	Area: Group	Total area for each day	Observatory
Apr. 1	15 27	−64.0	189.1	−13.5		29		Harvard.
		−13.0	240.1	−22.5	335			
		−8.0	245.1	−20.5	27			
		0.0	253.1	−18.0		13		
		+1.0	254.1	−20.0	8			
		+7.5	260.6	+19.5		198		
		+18.0	271.1	−15.5		176		
		+25.5	278.6	−27.0		78		
		+40.5	293.6	−21.0		52		
		+41.5	294.6	−24.5	130			
		+59.5	312.6	+35.0	47		1,093	
Apr. 2	13 20	−60.0	181.0	+19.0		72		Mt. Wilson.
		−53.0	188.0	+29.0	8			
		−52.0	189.0	−15.0		9		
		−4.0	237.0	−22.0		324		
		+16.0	257.0	+20.0		270		
		+28.0	269.0	−15.0		170		
		+49.0	290.0	−23.0		91		
		+65.0	306.0	+36.0		15	959	
Apr. 3	11 20	−75.0	153.8	−24.0	62			U. S. Naval.
		−53.0	175.8	+19.5		93		
		+10.0	238.8	−22.5		278		
		+28.0	256.8	+20.5		216		
		+40.5	269.3	−16.0		108		
		+63.0	291.8	−23.0	62		819	
Apr. 4	11 6	−61.0	154.8	−24.0	77			Do.
		−42.0	173.8	+20.5		154		
		−34.0	181.8	+18.0		93		
		+20.0	235.8	−23.0		247		
		+40.0	255.8	+20.5		154		
		+53.0	268.8	−16.5		123		
		+77.0	292.8	−24.0	62		910	
Apr. 5	11 30	−48.0	154.3	−24.0	66			Mt. Wilson.
		−25.0	177.3	+22.0		326		
		+32.0	234.3	−22.0		68		
		+54.0	256.3	+21.0		24		
		+66.0	268.3	−14.0		40	524	
Apr. 6	14 48	−80.0	107.3	−30.0	62			U. S. Naval.
		−70.0	117.3	+13.5		154		
		−35.0	152.3	−24.0	31			
		−14.5	172.8	+21.0		494		
		−5.5	181.8	+18.5		93		
		+48.0	235.3	−23.0		216	1,050	
Apr. 7	14 46	−70.0	104.2	+17.5	31			Do.
		−66.0	108.2	−30.0	123			
		−57.0	117.2	+13.0		247		
		−21.0	153.2	−25.0	23			
		−2.0	172.2	+21.5		617		
		+8.0	182.2	+19.0	31			
		+61.0	235.2	−22.5		154	1,226	
Apr. 8	11 28	−60.0	102.8	+17.5	31			Do.
		−55.0	107.8	−30.0	123			
		−45.0	117.8	+12.5		216		
		+9.0	171.8	+21.0		679		
		+19.5	182.3	+20.0	15			
		+70.0	232.8	−22.0	93		1,157	
Apr. 9	9 50	−80.0	70.4	+21.0	9			Mt. Wilson.
		−75.0	75.4	−28.0	235			
		−67.0	83.4	−33.0	5			
		−50.0	100.4	+18.0		36		
		−43.0	107.4	−31.0		146		
		−32.0	118.4	+13.0		218		
		+22.0	172.4	+21.0		520		
		+65.0	215.4	+16.0		23		
		+80.0	230.4	−22.0	164		1,356	
Apr. 10	9 50	−78.0	59.2	−18.0		15		Do.
		−70.0	67.2	+17.0		24		
		−63.0	74.2	+21.0		5		
		−61.0	76.2	−28.0	194			
		−35.0	102.2	+18.0		14		
		−29.0	108.2	−31.0	148			
		−19.0	118.2	+13.0		208		
		+34.0	171.2	+21.0		691		
		+61.0	198.2	−19.5		19		
		+78.0	215.2	+16.0	5		1,323	

POSITIONS AND AREAS OF SUN SPOTS—Continued

MEAN DAILY AREA FOR 30 DAYS, 812—Continued

Date	Eastern standard time	Heliographic: Diff. in longitude	Heliographic: Longitude	Heliographic: Latitude	Area: Spot	Area: Group	Total area for each day	Observatory
1936	*h m*	°	°	°				
Apr. 11	11 22	−71.0	52.2	+10.0		31		U. S. Naval.
		−68.0	55.2	−19.0		62		
		−59.0	64.2	+16.5		77		
		−49.0	74.2	−29.0	154			
		−0.5	122.7	+11.5		154		
		+46.0	169.2	+21.0		556	1,034	
Apr. 12	13 0	−55.0	54.1	+12.0		64		Mt. Wilson.
		−49.0	60.1	−19.0	34			
		−42.0	67.1	+18.0		100		
		−33.0	76.1	−29.0		205		
		−9.0	100.1	+18.0		35		
		−2.0	107.1	−31.0	119			
		+15.0	124.1	+12.0		205		
		+60.0	169.1	+21.0		358	1,120	
Apr. 13	11 4	−44.0	53.0	+11.5		247		U. S. Naval.
		−33.0	64.0	+16.0		93		
		−22.5	74.5	−29.0	154			
		+9.0	106.0	−31.5	93			
		+26.0	123.0	+12.0		123		
		+72.0	169.0	+22.0		154	864	
Apr. 14	11 0	−31.0	52.8	+11.0		247		Do.
		−28.0	55.8	−19.0		46		
		−18.0	65.8	+16.5	31			
		−10.0	73.8	−29.0	123			
		+21.0	104.8	−31.0	93			
		+39.0	122.8	+12.0		154	694	
Apr. 15	10 58	−82.0	348.6	−19.0	93			Do.
		−23.0	47.6	+11.0	15			
		−14.0	56.6	−19.5		46		
		−12.0	58.6	+11.0		185		
		−5.0	65.6	+16.5	31			
		+2.5	73.1	−29.5	123			
		+34.0	104.6	−31.0	93			
		+52.0	122.6	+12.0		77	663	
Apr. 16	11 7	−79.0	338.3	−11.5		123		Do.
		−70.0	347.3	−19.5		309		
		−1.0	56.3	−19.5		46		
		+1.0	58.3	+12.0		123		
		+9.0	66.3	+19.0	31			
		+16.0	73.3	−29.0	123			
		+45.5	102.8	−30.0	93			
		+65.0	122.3	+12.0		62	910	
Apr. 17	11 15	−65.0	339.1	−11.5		216		Do.
		−55.0	349.1	−19.5		370		
		+12.0	56.1	−18.0	15			
		+16.5	60.6	+12.0	46			
		+20.0	64.1	−19.0		46		
		+29.0	73.1	−28.5	123			
		+59.0	103.1	−30.0	62			
		+85.0	129.1	+12.0	46		924	
Apr. 18	11 4	−53.0	338.0	−12.0		216		Do.
		−42.0	349.0	−19.5		340		
		+30.0	61.0	+11.0	23			
		+33.0	64.0	−19.0		62		
		+35.0	66.0	+19.5	15			
		+40.0	71.0	−28.0	93			
		+66.0	97.0	−26.0		93		
		+70.0	101.0	−29.5	77		919	
Apr. 19	12 30	−38.0	339.0	−12.0		474		Mt. Wilson.
		−36.0	341.0	−14.0	57			
		−24.0	353.0	−19.0		302		
		+46.0	63.0	+10.0	20			
		+47.0	64.0	−27.0		27		
		+50.0	67.0	−21.0	17			
		+54.0	71.0	−29.0	138			
		+77.0	94.0	−28.0		16	1,060	
		+80.0	97.0	−32.0	9			
Apr. 20	11 51	−25.5	338.6	−12.0		370		U. S. Naval.
		−21.0	343.1	−20.0	31			
		−10.0	354.1	−19.5	216			
		+60.0	64.1	−25.0	15			
		+66.0	70.1	−27.0	62		694	
Apr. 21	11 0	−23.0	328.4	−18.0		62		Do.
		−14.0	337.4	−12.0		401		
		−8.0	343.4	−20.0	15			
		+2.0	353.4	−19.0		278		
		+80.0	71.4	−27.0	46		802	
Apr. 22	13 45	−72.0	264.7	+37.0	5			Mt. Wilson.
		−6.0	330.7	+10.0		7		
		+4.0	340.7	−15.0	61			
		+6.0	342.7	−11.0		304		
		+8.0	344.7	−9.0		68		
		+16.0	352.7	−18.0		253		
		+56.0	32.7	+18.0		7		
		+79.0	55.7	−22.0	5			
		+88.0	64.7	−25.0		18	728	
Apr. 23	11 6	+16.0	340.9	−12.0		401		U. S. Naval.
		+28.0	352.9	−19.0	247		648	
Apr. 24	11 48	−51.0	260.3	+36.5	77			Do.
		−22.0	289.3	+37.0		93		
		+28.0	339.3	−11.5		370		
		+40.0	351.3	−19.0	216		756	
Apr. 25	12 16	−39.0	258.8	+37.0	46			Do.
		−8.0	289.8	+37.0		77		
		+37.0	334.8	−27.0		62		
		+45.0	342.8	−11.0		309		
		+53.0	350.8	−19.5	185		679	

POSITIONS AND AREAS OF SUN SPOTS—Continued

MEAN DAILY AREA FOR 30 DAYS, 812—Continued

Date	Eastern standard time	Heliographic			Area		Total area for each day	Observatory
		Diff. in longitude	Longitude	Latitude	Spot	Group		
1936	*h m*	°	°	°				
Apr. 26	14 40	−26.0	257.3	+37.0	-------	12	--------	Mt. Wilson.
		+5.0	288.3	+36.0	-------	14	--------	
		+5.0	288.3	+12.0	-------	19	--------	
		+23.0	306.3	−16.0	-------	15	--------	
		+51.0	334.3	−26.0	-------	197	--------	
		+57.5	340.8	−13.0	17	--------	--------	
		+58.0	341.3	−12.0	-------	125	--------	
		+68.0	351.3	−18.0	185	--------	584	
Apr. 27	13 50	−16.0	254.6	+36.0	-------	16	--------	Do.
		+19.0	289.6	+13.0	-------	35	--------	
		+35.0	305.6	−16.0	-------	9	--------	
		+64.0	334.6	−26.0	-------	226	--------	
		+68.0	338.6	−13.0	23	--------	--------	
		+68.0	338.6	−10.0	25	--------	--------	
		+79.0	349.6	−18.0	227	--------	561	
Apr. 28	11 44	+33.0	291.5	+12.0	-------	46	--------	U. S. Naval.
		+74.0	332.5	−26.0	46	--------	--------	
		+87.0	345.5	−27.0	62	--------	154	
Apr. 29	11 6	−68.0	177.6	−18.0	-------	77	--------	Do.
		+50.0	295.6	+12.0	15	--------	92	
Apr. 30	11 13	−54.0	178.3	−18.0	-------	46	46	Do.

PROVISIONAL SUN-SPOT RELATIVE NUMBERS, APRIL 1936

[Dependent alone on observations at Zurich and its station at Arosa]

[Data furnished through the courtesy of Prof. W. Brunner, Eidgen. Sternwarte, Zurich, Switzerland]

April 1936	Relative numbers	April 1936	Relative numbers	April 1936	Relative numbers
1	*Wac*93	11	*a*91	21	*a*67
2	100	12	*Ec*92	22	*a*49
3	*a*91	13	*a*83	23	56
4	*Ec*74	14	86	24	*Ec*53
5	85	15	*a*73	25	*Wc*72
6	*d*91	16	*ad*88	26	77
7	*b*—	17	—	27	56?
8	*b*76	18	73	28	—
9	*d*89	19	83	29	32
10	99	20	75	30	—

Mean, 26 days=77.1.

a=Passage of an average-sized group through the central meridian.
b=Passage of a large group or spot through the central meridian.
c=New formation of a center of activity: *E*, on the eastern part of the sun's disk; *W*, on the western part; *M*, in the central circle.
d=Entrance of a large or average-sized center of activity on the east limb.

AEROLOGICAL OBSERVATIONS

[Aerological Division, D. M. LITTLE in charge]

By L. T. SAMUELS

At those stations with a sufficient period of record for the determination of approximate normals, upper-air temperatures during April averaged below normal except over San Diego where the departures were positive. (See table 1.) In practically all cases the departures were of moderate to small magnitude.

Upper-air relative humidity departures were mostly of opposite sign to those for temperature, and of small to moderate magnitude. The comparatively pronounced increase in the mean relative humidity with elevation found at El Paso is characteristic of the approach of the warm season.

The directions of the upper-air wind resultants were close to normal at the 3-kilometer level. (See table 2.) Resultant velocities at that level exceeded the normals over the northern half and southeastern section of the country, and were below normal elsewhere. Departures were of small to moderate magnitude.