

A CONTINUOUS registering thermometer for recording the temperature of the body has just been described by its inventor, M. Marey. It consists of a brass tube communicating with a Bourdon manometer, containing oil, and closed. Any change of temperature, by altering the internal pressure, makes the curved manometer tube curl more or less, and to it is fixed an index which registers the movements by inscribing them on a recording cylinder. The thermometric bulb may be at some distance from the in-

scribing apparatus, being connected by a flexible tube of annealed copper. Two such bulbs may be applied to different parts of the body, even to the interior. It is possible therefore to note the relation between the temperatures of the interior and exterior of the body. If we remember rightly, an analogous but more portable instrument was suggested some time ago by Mr. Donald Macalister, but we are not aware whether his instrument is yet before the public.

SUN SPOTS.

The following record of observations made by Mr. D. P. Todd, Assistant, has been forwarded by Prof. S. Newcomb, U. S. Navy, Superintendent Nautical Almanac Office, Washington, D. C.

DATE, JUNE, 1881.	NO. OF NEW		DISAPPEARED BY SOLAR ROTATION.		REAPPEARED BY SOLAR ROTATION.		TOTAL NUMBER VISIBLE.		REMARKS.
	Groups.	Spots.	Groups.	Spots.	Groups.	Spots.	Groups.	Spots.	
7, 5 p. m.-----	1	2	----	----	1	2	3	9	
11, 7 a. m.-----	2	20	----	----	----	----	4	40†	
12, 9 a. m.-----	2	5	1	3	1	2	5	45†	
15, 9 a. m.-----	2	10	1	5	1	3	7	50†	
16, 7 a. m.-----	0	0	0	0	0	0	7	40†	
18, 7 a. m.-----	0	0	2	10	0	0	5	25†	
19, 2 p. m.-----	0	0	0	0	0	0	4	15	
21, 10 a. m.-----	0	0	0	0	0	0	3	10	
22, 10 a. m.-----	0	0	0	0	0	0	2	5	
23, 8 a. m.-----	2	5	0	0	2	5	4	10	
24, 5 p. m.-----	0	7	0	0	0	0	4	17	
26, 1 p. m.-----	1	25†	1	2	1	15	4	40†	
29, 8 a. m.-----	1	25†	0	0	1	10	5	65†	Many of the spots small.
30, 9 a. m.-----	0	0	0	0	0	0	5	60†	Many of the spots small.

† Approximated.

Faculæ were seen at the time of every observation.

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W. B. HAZEN, *Brig. & But. Maj. Gen'l Chief Signal Officer, U. S. A*

METEOROLOGICAL REPORT FOR NEW YORK CITY FOR THE WEEK ENDING AUG. 20, 1881.

Latitude 40° 45' 58" N.; Longitude 73° 57' 58" W.; height of instruments above the ground, 53 feet; above the sea, 97 feet; by self-recording instruments.

BAROMETER.						THERMOMETERS.									
AUGUST.	MEAN FOR THE DAY.	MAXIMUM.			MINIMUM.		MEAN.		MAXIMUM.			MINIMUM.			MAXI'M
	Reduced to Freezing.	Reduced to Freezing.	Time.	Reduced to Freezing.	Time.	Dry Bulb.	Wet Bulb.	Dry Bulb.	Time.	Wet Bulb.	Time.	Dry Bulb.	Time.	Wet Bulb.	In Sun.
Sunday, 14--	29.686	29.778	12 p. m.	29.596	0 a. m.	71.3	64.0	78	3 p. m.	71	0 a. m.	66	12 p. m.	62	12 p. m.
Monday, 15--	29.902	29.986	12 p. m.	29.778	0 a. m.	69.6	63.6	76	3 p. m.	66	2 p. m.	63	5 a. m.	60	5 a. m.
Tuesday, 16--	30.031	30.062	10 p. m.	29.986	0 a. m.	66.3	60.7	71	1 p. m.	62	1 p. m.	59	12 p. m.	57	12 p. m.
Wednesday, 17--	30.031	30.064	9 a. m.	30.000	12 p. m.	60.3	58.0	67	4 p. m.	60	5 p. m.	56	5 a. m.	55	5 a. m.
Thursday, 18--	29.919	30.000	0 a. m.	29.890	12 p. m.	63.6	60.0	67	3 p. m.	62	10 p. m.	57	1 a. m.	57	1 a. m.
Friday, 19--	29.786	29.890	0 a. m.	29.718	12 p. m.	67.0	63.6	70	3 p. m.	65	3 p. m.	64	3 a. m.	61	3 a. m.
Saturday, 20--	29.651	29.718	0 a. m.	29.600	6 p. m.	73.7	67.0	81	4 p. m.	70	4 p. m.	66	4 a. m.	64	4 a. m.

Mean for the week.....	29.858 inches.	Mean for the week.....	67.4 degrees	Wet.	62.4 degrees.
Maximum for the week at 9 a. m., August 17th	30.064	Maximum for the week at 4 p. m. 20th 81.		at 0 a. m. 14th, 71.	
Minimum " at 0 a. m., August 14th	29.596	Minimum " 5 a. m. 17th 56.		at 5 a. m. 17th, 55.	
Range	.468	Range "	25.		16.

WIND.										HYGROMETER.						CLOUDS.			RAIN AND SNOW.				OZONE.	
AUGUST.	DIRECTION.			VELOCITY IN MILES.	FORCE IN LBS. PER SQ. FEET.		FORCE OF VAPOR.			RELATIVE HUMIDITY.			CLEAR, OVERCAST.			DEPTH OF RAIN AND SNOW IN INCHES.								
	7 a. m.	2 p. m.	9 p. m.	Distance for the Day.	Max.	Time.	7 a. m.	2 p. m.	9 p. m.	7 a. m.	2 p. m.	9 p. m.	7 a. m.	2 p. m.	9 p. m.	7 a. m.	2 p. m.	9 p. m.	Time of Begin- ing.	Time of End- ing.	Dura- tion. h. m.	Amount of water		
																							10	
Sunday, 14.	n. w.	n. n. w.	n. n. w.	213	4½	6.20 am.	.543	.492	.562	79	53	65	2 cir. cu.	4 cir. cu.	9 cu.	---	---	---	---	---	---	---	---	8
Monday, 15.	n. n. e.	n. n. e.	n. n. e.	234	7	2.00 am.	.489	.532	.509	74	63	74	1 cir. s.	7 cir. cu.	4 cu.	---	---	---	---	---	---	---	---	4
Tuesday, 16.	n. n. e.	e. n. e.	s. n. e.	151	2½	10.20 am.	.470	.462	.433	73	65	73	7 cir. cu.	10	1 cu. s.	---	---	---	---	---	---	---	---	7
Wednesday, 17.	n. e.	e.	s. s. e.	145	5¾	9.00 am.	.422	.460	.473	87	83	88	4 cir. cu.	10	10	11 p m	12 p m	1.00	.01	7	0	0	7	
Thursday, 18.	n. n. e.	e. n. e.	n. n. e.	116	2	4.00 am.	.456	.470	.483	88	73	78	10	9 cu.	10	---	---	---	---	---	---	---	---	0
Friday, 19.	n.	n. n. w.	n. n. w.	83	¾	2.00 pm	.516	.564	.556	83	80	84	9 cu.	9 cu.	10	1 a m	2 a m.	1.00	.01	0	0	0	0	
Saturday, 20.	n. e.	n. e.	n. n. w.	73	2½	11.10 am.	.556	.537	.628	84	54	72	8 cu.	3 cu.	7 cu.	1½ a m	12 m.	0.30	.01	1	0	0	1	

Distance traveled during the week..... 1,015 miles.
Maximum force..... 7 lbs.

Total amount of water for the week..... .03 inch.
Duration of rain..... 2 hours, 30 minutes.

DANIEL DRAPER, Ph. D.

Director Meteorological Observatory of the Department of Public Parks, New York.