

Neal J. Heines, Editor.

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August	80	Nov.	70
Sept.	76	Dec.	67
Oct.	73	Jan.	65

The preceding was Broadcast by the Swiss Broadcasting Corp.
Released by Prof. M. Waldmeier
Director Swiss Federal Observatory
Zurich, Switzerland.

STATISTICS (August)

The total number of observed groups for the month of Aug. was-----25.
The total number of days with sunspots for the month of Aug.-----31.
Zurich's Provisional Relative Sunspot Number for Aug. was -----85.2.
Mean (monthly) Sunspot Area (U.S. Naval Observatory)---not released .

*The highest sunspot group number as assigned at Solar Division Headquarters was observed on Sept. 12th. It represented a spot near the east limb, south belt and was number 217.

*Group counting reference.

Predictions of the smoothed monthly sunspot numbers for the coming six months are as follows;

Sept.	81	Dec.	70
Oct.	77	Jan.	66
Nov.	73	Feb.	63

Released by Prof. M. Waldmeier.

PUBLICATIONS

"Turbulence in the Solar Atmosphere" Otto Struve.

Sky and Telescope Aug. issue pp 239 - 241.

Of interest to all Solar Observers.

Special interest to Dr. Bartlett's section

Granulations on Solar Surface.

"Star Spots"

G.E. Kron

Quote - "But what about stars other than the sun? If they are at all similar to the sun, should they not have such spots too, and, if so, is it possible to learn anything about their properties?"

Astronomical Society of the Pacific. Leaflet No. 257

Be sure to read this!

"The Sun's Spottedness as a Possible Factor in the Frequency of Anticyclones in Northwestern North America" I.I. Schell.

Blue Hill Meteorological Observatory, Harvard University

Reprint No. 2, 1949

Very interesting.

We announce the following publications received from the Federal Observatory of Switzerland through Prof. M. Waldmeier, and mostly by him.

1. Report of the Federal Observatory for 1949.
2. Die Sichtbarkeitsfunktion der Sonnen fackeln. No. 159
3. Über die Möglichkeit fortlaufender Korona-beobachtungen No. 160
4. Der Eruptionenindikator No. 162
5. Das Spektrum der Protuberanzen und Chromosphärischen Eruptionen im Gebiet 4900 - 6700 Å. No. 163
6. Die Variation der monochromatischen Gesamtemission der Sonnenkorona im 11 jährigen Zyklus No. 164
7. Katalog der Großen Koronastrahlen 1939-1946 No. 170

"Cycles in Sunspots"

E.R. Dewey

The 22 1/5 Year Cycle in Relative Sunspot numbers with Alternate Cycles Reversed 1749 - 1949.

Complete with tables and graphs

The Director's Letter June 1915

Foundation for the Study of Cycles, Riverside, Conn.

SUPPLEMENT TO THE OCTOBER BULLETIN

Total Daily Solar Radiation - in gm. cal. /cm² at
Riverside, California

1950 Date	Jan.	Feb.	Mar.	Apr.	May	June
1	186	271	168	*524	412	548
2	114	274	98	*552	444	508
3	*272	*328	335	511	408	577
4	151	195	*434	531	675	*668
5	207	157	253	392	*681	624
6	240	40	387	552	*671	135
7	149	272	443	404	686	709
8	43	307	413	233	*707	*707
9	257	258	254	436	*704	*713
10	232	43	408	617	*697	*691
11	34	334	205	611	637	*707
12	93	*388	*503	* 619	558	*709
13	274	*383	374	584	412	594
14	10	*358	*486	592	247	604
15	271	*368	387	*625	431	527
16	*278	*378	*471	*624	120	463
17	251	*379	463	*625	122	591
18	159	375	407	604	549	*673
19	252	339	481	*600	545	614
20	259	124	471	526	515	547
21	239	356	500	278	568	604
22	256	301	486	202	496	696
23	259	202	417	170	182	620
24	250	297	370	518	437	467
25	*307	*399	541	456	*657	*687
26	287	123	360	200	592	*675
27	186	350	369	83	*661	*690
28	65	*401	489	312	515	*691
29	41		407	526	615	*670
30	289		439	217	518	648
31	329		331		541	

* - No clouds at any time during the day but varying amounts of haze and water vapor.

Note - High clouds seem to have only a small effect on total radiation as indicated by several days with high radiation totals when Cirrus type clouds were present.

Instruments - Eppley 10-junction Pyrheliometer No. 1910
Model S, Micromax Recorder.

Station Data - Latitude: 33 degrees 58' N
Longitude: 117 degrees 21' W
Elevation: 810 ft.

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Riverside College

MONTHLY SUMMARY OF AURORA REPORTS A.A.V.S.O.

FOR THE MONTHS OF July and August

1950.

DATE	Time Used E.S.T.	Time of Obser- vation											Elevation & Direction	Station			
			Glow	Homo Arcs	Homo Bands	Rayed Arcs	Rayed Bands	Rays	Draperies	Corona	pulsatg. Arcs	pulsatg. Surface			Flaming	Diffuse Surface	Old Rays
1950																	
6/5	2243 2253		G IV														WILTON MAINE
6/5	2253 2343																" "
6/10	0100 0115																40° 70° N DENVER - COLO.
7/4	2130																45° N SPRINGFIELD VT.
7/3	2104 2154	G I															WILTON MAINE
7/22	0200 0235	G															" "
8/1	2249 2304																" "
8/5	2110 2130	G															" "
8/7	2040 2130	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	WATERBURY Conn
"	2030 2210		G IV														4 to 2 60° " "
8/7	2000 0430																NE - NW 2 to 15° ALL OVER SKY ELMHURST L.I. N.Y.
8/7	2035 2037																WILTON MAINE
8/7	2037 2040																45° N NE NE NEW HAVEN CONN.
8/7	2040 2045																70° NE & NW " "
8/7	2110 2130		G I														2 NE 5 NW " "
8/7	2130 2230	G I															30° N " "
8/8	350 410		G II														20° N " "
8/8	410 425																75° NW - N " "
8/8	425 430																Z " "
8/19	050																10° N - NW " "
"	945																15° NE - NW MIDDLETOWN - OHIO
"	1005																45° NE - NW " "
"	1025																2 NE - NW " "
																	10° - 90° NE " "

REPORTS RECEIVED FROM: C. Fernald - D.W. Rosebrough - H.A. Luft - A.K. Herring -
D.S. Kimball - M. Bradsley - R.S. Spalding
We welcome first reports from A.K. Herring & R.S. Spalding

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