

TABLE OF SUNSPOT GROUPS
JANUARY 1969

Group No.	Heliographic																																			
	Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
N2245	⇒																																			(.)
N2246	⇒																																			D.C. 27
N2247	⇒																																			(.)
N2248	⇒																																			Dec. 28
N2249	⇒																																			
N2250	19-24	301-310																																		
N2251	1-4	299-302																																		
N2252	17-20	275-278																																		
N2253	27	302-304																																		
N2254	9-11	255-263																																		
N2255	9-14	136-151																																		
N2256	9	237																																		
N2257	21-23	121-136																																		
N2258	16-18	101-105																																		
N2259	12	130-133																																		
N2260	15	108-109																																		
N2261	6-10	78-90																																		
N2262	22	98-100																																		
N2263	15-17	40-45																																		
N2264	12	61																																		
N2265	33-35	332-347																																		(.) ⇒

16.1

Feb. 2

		Helio-graphic																												
Group No.	Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
S1568	(+)1-(+)3	290-298				c17	-	D18	D22	D24	D22	D13	c7																	
S1569	7-8	283-284				J2	-	J2	J2	J2	J2	J2	J3	-	A1															
S1570	18'	270																												
S1571	17-20	257-260																												
S1572	19-21	293-297																												
S1573	15-17	121-128																												
S1574	10-12	155-164																												
S1575	13-15	66-74																												
S1576	26-28	82-87																												
S1577	19-26	333-342																												
S1578	17-20	337-347																												
S1579	14-16	333-335																												
S1580	17-20	57-60																												
S1581	15-19	295-303																												
S1582	13-15	298-302																												

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- - Central Meridian-passage
- * - prearrange-day of Meridian-passage
- ⇒ - Continued group Last Month

Observer

K. Fujimori

Group No.	Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
N2275	⇒		J2																																
N2276	⇒		C4 B3																																
N2280	⇒		J2 J2 J2 - J2 J2 - J3 - J2																																
N2281	⇒		C6 C6 C7 - C13																																
N2282	11-15	266-277	C3 C3 C3 - C4 C6 - D20 - D13 C6																																
N2283	17	273	A1 *																																
N2284	9-13	256-265	C5 - C10 C6 - B6 - D11 C10 - C4																																
N2285	14	221	A1 *																																
N2286	6-7	199-203	J2 - J2 - J2 J2 - C4 J3 J3 A1																																
N2287	16-18	208-212	C5 - C4 C4 - J2 J2 A1																																
N2288	7-10	285-289	* B5																																
N2289	29-31	178-184	C5 D6 - J2 C4 J3 J2																																
N2290	10-16	103-109	J2 J3 H3 H3 H10 H20 - H11 - H9 H3 H3 J3																																
N2291	19-24	145-153	A1 D17 D15 D12 - J3																																
N2292	11-13	126-132	C4 C6 C7 C4																																
N2293	17	98	A3 A3 A1 A2 *																																
N2294	9-13	86-101	D8 D15 D18 E24 - E31 - E23 E23 G9 G6 J2																																
N2295	17-22	10-83	C7 F12 F16 - F28 - F44 F52 F46 F37 F36 F23 H9																																
N2296	19	180	* A1																																
N2297	10-12	80-82	C3 B2 - A2 *																																
N2298	18-20	55-57	J2 H8 - J6 - A1 * .. A4																																
N2299	19	48	A1 - J2 - J2 J2																																
N2300	8-9	325-332																																	
N2301	19-24	304-308																																	
N2302	23	297-300																																	
N2303	3-13	291-283																																	
N2304	8-9	32-35																																	
N2305	20	0																																	
N2306	15-21	256-262																																	

1969 March

(*)
Apr. 1
Apr. 2

(*)
Apr. 1
(*)
Apr. 2

(*)
Apr. 4

GROUP No	Heliographic																																				
	Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
S1577	⇒		C9	C11	A2																																
S1578	⇒		D29	E35	D41	-	H28	H19																													
S1579	⇒		J3	C5	A2																																
S1581	⇒		A2	A1	D6	-	C11	B6																													
S1582	⇒		C3	B2	*																																
S1583	7'	283																																			
S1584	9'-11'	173-176											J2	-	J3	J5	-	C4	C3	C4	A1																
S1585	10'	164'											A1						*																		
S1586	17'	136'																																			
S1587	14-18	126-132																																			
S1588	12'	126-128																																			
S1589	19'	122'																																			
S1590	14-18	61-66																																			
S1591	7'-8'	102-105																																			
S1592	30'	85'																																			
S1593	25-27	71-79																																			
S1594	20'	81'																																			
S1595	20-21	57-58																																			
S1596	29-33	49-62																																			
S1597	10'-11'	132-135																																			
S1598	21-22	53'																																			
S1599	11'	50'																																			
S1600	10'-12'	6'-11'																																			
S1601	15'	357'																																			
S1602	10'-13'	329-334																																			

TABLE OF SUNSPOT GROUPS

APRIL 1969

Heliographic																																	
Group No.	Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
N2301	⇒		C13 D9 D10 - A1																														
N2302	⇒		A1 A1																														(*) Mar. 31
N2303	⇒		H77 H60 H66 - H29 - H19 D11																														
N2306	⇒		H15 D15 D16 - D10 - C10 J4 A5																														
N2307	30'	305'	A1 A1																														(*) Mar. 31
N2308	9'	288'	A2 * A2																														
N2309	20'-23'	243'-250'	D6 D18 - D10																														
N2310	11'	263'	A1 *																														
N2311	7-13'	191-197'	H8 - H11 H17 H16 H8 H9 H6 H4 H3																														
N2312	7'	152-156'	B2 *																														
N2313	14'-15'	105'-106'	J2 J2 J2 J2 J2 - - - A1																														
N2314	9'-12'	84-88'	J2 J2 J2 J3 - - - C9 J3 J2 J3 J2																														
N2315	5'-9'	84-91'	A2 J2 C7 - - - D17 C2 C6 B3																														
N2316	13'	176-179'	* B3																														
N2317	19'-22'	81-88'	B2 D19 - - - B15 B4 B2 C5 B5																														
N2318	19'-22'	54-61'	C4 - - - C8 C15 H16 H18 H12 H12 J5																														
N2319	22'-23'	37-42'	B7 C5 J2 A1																														
N2320	15'	86'	* A1																														
N2321	2'	7'	* A1																														
N2322	7-9'	333-341'	C5 C8 - - - D11 D8 A1 ⇒																														
N2323	9-13'	289-299'	B3 - - - C16 C5 J2 ⇒																														
N2324	5~9'	271-278'	J3 - - - C18 D14 C14 ⇒																														
N2325	18~19'	223-231'	C3 C3 (C) ⇒																														
N2326	7-9'	197-199'	(C) ⇒ C3 May. 6																														

TABLE OF SUNSPOT GROUPS

J U N E 1 9 6 9

Group No.	Heliographic																															
	Lat- tude	Longi- tude	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
N2348	⇒		c7 c4 - J3 A2 A1																													
N2349	10°-14'	117°-123'	A2 - c8 B4 B6 c6 c10 B10 A1																													
N2350	13°-15'	103°-104'	J2 J2 J3 J3 J3 c4 J3 J2 - A1																													
N2351	5°-8'	103°-105'	J4 c5 c6 D4 D4 J2 J2 J2 - J2 J2 J2																													
N2352	6°-11'	109°-119'	B2 c14 D23 D28 D24 D28 D17 - J2 A1																													
N2353	8°-13'	82°-95'	D9 E17 E20 E21 E27 E23 E15 - c11 H6 H7 J3																													
N2354	11°-19'	67°-78'	H4 H8 H9 H7 H11 c2 A c23 - c29 c20 c10 H4																													
N2355	8'	194°-196'	* B2																													
N2356	4'	121'	* A1																													
N2357	10'	105'	A2 *																													
N2358	4°-8'	92°-99'	B3 B9 A2 B9 B3																													
N2359	12°-18'	25°-31'	A1 c9 D24 c14																													
N2360	8°-9'	349°-355'	c4 c4 c4 J3 - - - A1																													
N2361	8°-13'	322°-330'	J3 J4 H7 H4 - - - c7 - - - J2 J2																													
N2362	21°-22'	22°-27'	* c5 - - - B3																													
N2363	5°-10'	319°-329'	c27 - - - c5 J2																													
N2364	3'	322°-324'	B3																													
N2365	7°-9'	310°-315'	B8																													
N2366	3'	299'	* A1																													
N2367	10'	249'	A1 *																													
N2368	5°-7'	238°-242'	A1 c7 - - B4																													
N2369	20'	218'	A1																													
N2370	11°-15'	209°-213'	B7 - - ⇒																													

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10.4

Heliographic			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				
Group No.	Lat. Date	Long. Date																																		
S 1630	⇒		J3 A2	*	B2 A1																													
S 1631	10-12	173-177	E2 E4	--	J2 A1																															
S 1632	10-12	153-157	A3	..	A1																															
S 1633	12-18	82-96	J2-E12 E26 E27 E34 E54 E55 E56 -- E53 E35 E28 H15																																	
S 1634	9-11	146-149	C3 C3																																	
S 1635	14-17	108-114	C7 J3 A1 B3																																	
S 1636	11-12	167-171	*	B2																																
S 1637	12-13	105-109	* B4 C7 -- J2 A1																																	
S 1638	20	84-87	* B2																																	
S 1639	14	348	J2 J2 J2 J2 *																																	
S 1640	16-19	345-352	A1 A1 C9 *																																	
S 1641	16	323-324	J2 A3 A2 -- -- -- A1 -- -- -- A1																																	
S 1642	10-11	323-326	B2 *																																	
S 1643	22	321-324	* C3 B2																																	
S 1644	9-13	168-179	A1 -- -- C11 -- --																																	

⇒
(*) July 1

13.5

- - Central Meridian-passage
- * - prearrange-day of Meridian-passage
- ⇒ - Continued group Last Month

Observer

K. Fujimori

TABLE OF SUNSPOT GROUPS
J U L Y 1969

Group No.	Heliographic																																			
	Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
N2370	→		-	-	B5																															
N2371	7-19	149-154			c5																															
N2372	14-15	122-127			J2	-	-	c4																												
N2373	7-10	100-107			c14	-	-	c15																												
N2374	9-14	94-96			J3	-	-	H6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N2375	27	156		*				A1																												
N2376	9-11	124-128					*	B3																												
N2377	7	67						J2		*																										
N2378	10-14	33-40						A1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N2379	18-20	3-13																																		
N2380	5-7	330-334																																		
N2381	9-12	330-333																																		
N2382	15-16	349-351																																		
N2383	7-8	315-318																																		
N2384	22-24	304-311																																		
N2385	11-15	236-244																																		
N2386	10	204-209																																		
N2387	8	272																																		
N2388	26	192																																		
N2389	18	127																																		

13.6

June 28

Aug. 1

Group No.	Heliographic		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
	Latitude	Longitude																																	
S1644	⇒		-	-	c32	-	-	J3																											
S1645	18-20	177-182			B12	-	-	J2																											(2)
S1646	17	159			* A1																													Jan. 30	
S1647	35	123-126			B4	-	-	J2																											
S1648	13-15	99-105			D6	-	-	B4																											
S1649	14-19	87-98			H9	-	-	c33	-	-	-	-	-	-	H8																			(2)	
S1650	27	49																																(2)	
S1651	15-19	18-19									*				A1																				
S1652	16-17	9-10													* J6	J4	J3	c4	J3	J2															
S1653	14	358-359													A5	A2																			
S1654	16	351													A3	A2	A1																		
S1655	17	349													A2		*																	(2)	
S1656	15-17	298-303																																	
S1657	14	261																			*														
S1658	16	186																																	
S1659	14-19	149-156																																	
S1660	4-13	118-129																																	⇒
S1661	13-15	174-177																																	(2)
S1662	15-16	166-172																																	
S1663	17	106																																	(2)

- 16.5
- - Central Meridian-passage
 - * - Prearrange-day of Meridian-passage
 - ⇒ - Continued group Last Month

Observer K. Fujimori

TABLE OF SUNSPOT GROUPS

AUGUST 1969

Group No.	Helio-graphic Lat- tude	Longi- tude	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
N2390	16-12'	116-120																																		
N2391	2-4'	109-116																																		
N2392	8-10'	55-65																																		
N2393	19-20'	14-16																																		
N2394	12-15'	10-16																																		
N2395	15'	357-359																																		
N2396	8-10'	285-288																																		
N2397	11'	37'																																		
N2398	13'	12'																																		
N2399	18'	8'																																		
N2400	11'	322'																																		
N2401	14-15'	343-345																																		
N2402	11'	321'																																		
N2403	22'	271'																																		
N2404	7-10'	131-135																																		
N2405	9-13'	118-131																																		
N2406	11-12'	186'																																		
N2407	3-6'	73-86																																		
N2408	7-10'	70-78'																																		
N2409	1-3'	61-69 85'																																		
N2410	5'	54'																																		
N2411	14'	98'																																		
N2412	3'	88'																																		
N2413	12'	21'																																		

10.5

A1 Sept. 5

TABLE OF SUNSPOT GROUPS
SEPTEMBER 1969

Group No.	Heliographic																																Remarks							
	Lat. Tude	Longi- tude	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30								
N2404	⇒		J3																														() Aug. 27							
N2405	⇒		H13 — J2																														() Aug. 28							
N2407	⇒		C26 — B13 B15 D7 D5																														() Aug. 31							
N2408	⇒		B12																																					
N2414	16°-17'	342°-347'		B3	B5	B2	A2	*																																
N2415	10°-11'	55°-60'	*		A1	D9	—	C4																																
N2416	15°-16'	12°-18'			B4	B2	—	A1																																
N2417	20°-21'	338°-345'			B4	C3	—	D12	C10	—	J2	J2	A1																											
N2418	8°	299°-301'									B2																													
N2419	12°-15'	230°-238'									B2	C5	D17	D16	—	—	—	C10	J3	J3	J2																			
N2420	6°-7'	258°-264'																	A4	—	—	—	D10	D6	A1															
N2421	1°-2'	171'																																						
N2422	11°-12'	151°-155'																																						
N2423	5°	105°-110'																																						
N2424	3°-8'	84°-91'																																						
N2425	2°-6'	145°-155'																																						
N2426	9°-12'	83°-86'																																						
N2427	8°-11'	58°-67'																																						
N2428	12°	93°																																						

Heliographic																																				
Group No.	Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				
S1675	⇒		c8	-	c8	c8	J3																													
S1677	⇒		J5	J8	J4																															
S1682	⇒		A1	-	B3																															
S1683	-24'	41'	A2																																	
S1684	13'	308'	A1	*																																
S1685	14'-15'	44'-46'	*	B2																																
S1686	30-34	316-333	D13 E19 - F18 F16 F16 F11																																	
S1687	17-20	245-250	A2	-	J4	c5	c6	c8	-	-	-	c5	J5	A1																						
S1688	2-7	215-226	J2	c5	D11	-	-	-	D29	c22	B17	D9																								
S1689	6-11	241-246	D8	D12	-	-	-	c4	A2																											
S1690	10-11	211-213	B2	A2																																
S1691	3'	208-210	A1	B2																																
S1692	8'	225'	A1	B2																																
S1693	28'	117'	*	A1																																
S1694	9-10	97-103	A1	A1	*																															
S1695	13-15	79-82	A1	J2	-	-	-	-	D14	D9	D6	D4	-	⇒																						
S1696	10-13	55-59	c6	J3	J5	J2	-	⇒																												
S1697	13-14	23 19-24	D7	D7	D9	-	⇒																													
S1698	11-15	4'-16'	A1	J2	-	Oct. 2																														
			A1	A3	-	Oct. 3																														

訂正 〇 N2409

緯度 1'-3' 經度 61-65'

13.9

- - Central Meridian-passage
- * - prearrange-day of Meridian-passage
- ⇒ - continued group Last Month

TABLE OF SUNSPOT GROUPS
OCTOBER 1969

Group No.	Heliographic																															Remarks	
	Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		30
N 2424	⇒		-	J2																											()		
N 2427	⇒		-	J3 A2																											Sep. 27 ()		
✓ N 2429	14~20	329~340	A2	D19	C23	C35	E48	-	-	E43	-	E40	H13															Sep. 27 ()					
✓ N 2430	13	40	*	A2	A1	J2	A1																										
N 2431	16	1~2	A3	*																													
✓ N 2432	25~26	297~305	J3	C6	C6	C12	-	-	C8	-	C5	J2																					
✓ N 2433	23	289	A1	*																													
✓ N 2434	9~12	251~257	A2	-	-	C11	-	C14	D8	C9	C8	J4	-	J2	J2																		
N 2435	22~23	277~280	*	B2																													
N 2436	14	249	A1																														
✓ N 2437	2~4	166~173	A1	A2	C5	-	A3	A1																									
✓ N 2438	8~14	82~90	J4	H4	-	-	H20	C29	-	C22	C19	C8	J5	J3																			
✓ N 2439	15~16	175~178	*	C3																													
✓ N 2440	6~15	51~74	F62	F95	-	F103	F77	F63	F47	C31	H18	⇒																					
✓ N 2441	4~6	84~88	A5	-	D12	C7	C4	J2																									
✓ N 2442	20	14~17	B2	*																													
✓ N 2443	16~18	326~343	J3	J6	J5	J7	J4																				() ⇒ Nov. 2						
✓ N 2444	19~21	337~332 242~236	A1	A3																											() ⇒ Nov. 2		
✓ N 2445	18~21	309~316	J5																											() ⇒ Nov. 2			

15.2

- o - Central Meridian-passage
- * - prearrange-day of Meridian-passage
- ⇒ - continued group Last Month

Group No.	Heliographic		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Remarks		
	Latit-ude	Longi-ude																																		
S1694	⇒		-	c3																														(c)		
S1695	⇒		-	J2	J2																														(c)	
S1696	⇒		-	D8	c7																													(c)		
S1697	⇒	13-14	19-24	-	c4	J2	c3	A1																										(c)		
S1698	⇒			-	F28	c29	c22	G14	G11																											
S1699	⇒	14-17	274-276	✓		A1	J2	J2	-	-	J2	-	J3	c4	J5	J3	J2																			
S1700	⇒	15	3		*	A1																														
S1701	⇒	5	322-324	✓					*	B2																										
S1702	⇒	15	300						*					A1																						
S1703	⇒	5-8	234-241	✓										A2	c17	D21	-	c5	A3																	
S1704	⇒	29-30	192-197	✓														*	A2	..	c7															
S1705	⇒	11-12	138-143	✓																	*				c4	B3										
S1706	⇒	7	132	✓																	*				A1											
S1707	⇒	27-29	100-105	✓																						c5	c5	-	A1							
S1708	⇒	10-14	57-62	✓																						D6	D11	-	c10	c8	J3	J2	J2	A2		
S1709	⇒	6	103																							*	A1									
S1710	⇒	24	101																							*	A1									
S1711	⇒	9-12	14-22	✓																							J2	-	J2	J4	J5	D5	D9	D8	⇒	
S1712	⇒	15	65																									A2	A1							
S1713	⇒	4	0	✓																								A2	J2	J2	A1	..	A1	⇒		
S1714	⇒	7	63																								*	A1								
S1715	⇒	15-16	18-19																										A3	A2		*				
S1716	⇒	14	328-329	✓																									A1	A1	J2	A1			(c) 5	
S1717	⇒	15	24-30	✓																															Nov 3	
																																				* B7 36 ⇒

TABLE OF SUNSPOT GROUPS

NOVEMBER 1969

Group No.	Heliographic																																Remarks		
	Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
N2440	⇒		H4																															(*) Oct. 23, 27	
N2443	⇒		C5 C9 C3																																
N2444	⇒ 9°-21'	330°-332'	A2 A5 B3																																
N2445	⇒		D8 D9 D15	-	-	D9																													
N2446	10'	339'	A2																																
N2447	9°-12'	258°-263'	J2 J2	-	-	C11	*																												
N2448	23'	327'	* A1																																
N2449	19°-20'	325'	A3																																
N2450	15°-16'	291°-294'	J4	-	-	B5																													
N2451	20'	321'	*			J2																													
N2452	2°-3'	288°-291'				* D6																													
N2453	8'	222°-228'				C8	-	-	-	A7	C5	B3	..	A1																					
N2454	19°-24'	222°-229'				D7	-	-	-	D15	D18	D14	D11	D6	D3	D5																			
N2455	19°-24'	211°-216'				C9	-	-	-	C14	C17	B7	B6																						
N2456	18°-21'	262°-270'				*				B10	C10	B4	B2																						
N2457	20'	233'								* A1																									
N2458	14°-18'	229°-233'								* D4	..	A2	D13	D19	C7																				
N2459	13°-15'	141°-145'																																	
N2460	3°-17'	70°-90'																																肉眼群	
N2461	11'	67'																																	
N2462	18'	151'																																	
N2463	10°-14'	40°-52'																																	
N2464	5'	70'																																	
N2465	24'	53°-56'																																	
N2466	12'	318°-325'																																	
N2467	18°-23'	313°-322'																																⇒	
N2468	14°-16'	33'																																	

Heliographic																																Remarks			
Group No.	Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		30		
S1711	→		C3	J2	J2																														(.) Oct. 30
S1713	→		A1	A1																														(.) Oct. 31	
S1716	→		A2	*																														(*) Oct. 29	
S1717	→		B3	A1	A1																														(*) Oct. 31
S1718	-14°	359°	A2																														(*) Oct. 31		
S1719	17°	278-280																																	
S1720	19°	172°																																	
S1721	16-17°	165-169°																																	
S1722	20-21°	185-186°																																	
S1723	12°	39°																																	
S1724	12-13°	113-114°																																	
S1725	15°	353°																																	
S1726	2-3°	342-343°																																	
S1727	13-17°	315-321°																																	
S1728	13°	75-78°																																	
S1729	15-18°	302-305°																																	
S1730	20-21°	344-347°																																	
S1731	7-8°	346-347°																																	
S1732	18-19°	279-283°																																	
S1733	14-15°	343-345°																																	
S1734	5°	341°																																	
S1735	18°	288-290°																																	

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· - Central Meridian-passage ⇒ - Continued group Last Month
 * - Prearrange-day of Meridian-passage

Heliographic

TABLE OF SUNSPOT GROUPS DECEMBER 1969

Group No.	Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31							
N2466	⇒		A4	A1	..	-	C3																																	
N2467	⇒		D14	D12	D15	-	E18	C12																																
N2469	23°	279°	A1	*																																				
N2470	16°	240°	A1	A1	J2	-	A1	*																																
N2471	15°~16°	217~223	J2	J2	-	C4	J2	-	-	C3	J3	J3	-	J2																										
N2472	4°~7°	278~280	*			C4	D5																																	
N2473	19°	238°				A1	*																																	
N2474	16°	235°					A2	*																																
N2475	6°~7°	255~259°					*					B3	A2																											
N2476	20°	221°								*		A1																												
N2477	5°~5°	90~91°													J2	-	J3	J2	J2	-	J3	J2	J2																	
N2478	14°	89°													A1	-	A2	..	A1	*																				
N2479	16°~13°	77~81°													C5	-	D8	D6	D6	-	J2	C3	C4	-	C7	D4														
N2480	9°	89~91°														A2			*																					
N2481	1°	85°													J2
N2482	10°~13°	56~69°													C5	C4	E23	-	E21	C26	C19	-	G8	G4	J2															
N2483	11~12	76~98°														A3																								
N2484	18°	83°																																						
N2485	4°	78°																																						
N2486	9~12	6~11°																																						
N2487	14°	75°																																						
N2488	8°~11°	316~324°																																						
N2489	21~22	318~320°																																						
N2490	12°	266°																																						
N2491	27°	256°																																						
N2492	9°~13°	238~249°																																						
N2493	22°	315°																																						
N2494	5°~7°	228~236°																																						
N2495	17~19	197~201°																																						

12.6

(1) ⇒
Jan. 30

(3) ⇒
Jan. 1
(4) ⇒
Jan. 2
(5) ⇒
Jan. 3

(1) ⇒
Jan. 3
(1) ⇒
Jan. 6

		Heliographic																																		
Group No.	Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
S1726	⇒		J2	J2	J2																														(-) Nov. 29	
S1727	⇒		C12	H4	H2	-	J2	J2																											(-) Nov. 30	
S1729	⇒		J4	J5	J5	-	D9	C3																												
S1732	⇒		A1																																	
S1733	⇒		A1																																(-) Nov. 28	
S1735	⇒		A1	C3	..	-	B6	A1																												
S1736	19~21	264~269	J3	D14	D14	-	C6	C8	-	-	J2	J2																								
S1737	10~11	255~259	A1	B4	-	C8	D7																													
S1738	18~20	221~226																																		
S1739	4	169~170																																		
S1740	11~12	110~113																																		
S1741	10~13	84~93																																		
S1742	10~13	57~66																																		
S1743	14	63																																		
S1744	27~28	89~92																																		
S1745	12~15	4~11																																		
S1746	0~4	342~348																																		
S1747	15~18	318~321																																		
S1748	16~17	62~69																																		
S1749	14	20~22																																		
S1750	8~9	357~359																																		
S1751	20~23	346~353																																		
S1752	23	297																																		
S1753	12	345~349																																		
S1754	18	305~306																																		
S1755	18~23	282~291																																		
S1756	8~10	328~337																																		