

TABLE OF SUNSPOT GROUPS

JANUARY 1967

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	
N1802	→		-	D6	C8	-	C7	-	J7	J3	J5	J8																						
N1803	15°	278°	A1	A3	*																													
N1804	4°~7°	259°~262°	D9	D10	-	C8	-	A2																										
N1805	14°~16°	311°~319°	*	D7	-	D15	-	D10	J4																									
N1806	15°~17°	259°~266°	D5	-	D13	-	B13	A2	A2																									
N1807	30°~32°	216°~224°	C4	-	D6	D4	C6	J6	-	A2	A1	A2																						
N1808	13°~15°	235°~245°	C9	A1	C11	D20	-	D16	D11	J2																								
N1809	20°~25°	216°~227°	C13	D19	D32	E36	-	D25	D17	D5	C3																							
N1810	20°~23°	252°~254°	*	B3	A1																													
N1811	15°~17°	187°~195°																																
N1812	21°~23°	106°~112°																																
N1813	13°~17°	44°~52°																																
N1814	27°	48°																																
N1815	15°~16°	24°~25°																																
N1816	10°~13°	68°~77°																																
N1817	15°~24°	6°~20°																																
N1818	23°	94°~97°																																
N1819	20°	344°																																
N1820	16°	30°~36°																																
N1821	20°	357°																																
N1822	24°	46°																																
N1823	3°	10°~13°																																
N1824	18°?	297°?																																
N1825	19°~22°	288°~279°																																

J3 D7 - - D21 D31

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		
N1826	25°	24°																																	
N1827	21°	354-359°																								*								A1	
N1828	14-17°	263-270°																										*							B5 D6 →
N1829	13-14°	247°																																	B7 C7 → February 2nd (.)
N1830	15°	238°																																	A1 A2 → February 4th (x)
N1831	27-28°	215-221°																																	A2 → February 4th (x)
S1222	18.1																																		J2 → February 6th (.)
S1225	→																																		
S1226	16-20°	262-272°																																	
S1227	24°	260°																																	
S1228	17°	248°																																	
S1229	20-25°	127-142°																																	
S1230	11-18°	40-43°																																	
S1231	0-22°	314-323°																																	
S1232	21°	348-351°																																	
S1233	25-26°	253-258°																																	
S1234	13-14°	218-219°																																	

19.8

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

Observer

K. Fujimori

TABLE OF SUNSPOT GROUPS

FEBRUARY 1967

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															
N1825	⇒		c21	c16	B5																																									
N1827	⇒		A1	(*) Jan 26 ^d																																										
N1828	⇒		c10	c5	J3	—	c9	B5	A1																																					
N1830	⇒		A1	B2	B3	*																																								
N1831	⇒		J2	C4	C4	—	J5	J2	J5																																					
N1832	13°~16°	190°~200°	H3	H3	H4				C12	E21																																				
N1833	13°	222°	B4		*																																									
N1834	18°~20°	164°~177°	C5		C19	E26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	c8	c4														
N1835	19°~21°?	122°~129°?	B4																								*																			
N1836	15°~17°	105°~112°	D12																								D22	D20	D9	B4	B3															
N1837	13°	86°	J3																								J2	J2	A1	A1	A1	A1														
N1838	14°~16°	17°~25°	J2																								J2	J2	J2	J2	J2	C6	C7	J9	—	—	D5	C3								
N1839	19°~20°	12°~17°	J2																								J2	J2	J2	J2	J2	C5	—	—	J2	J3	J2									
N1840	23°~24°	1°~7°	J3																								A3	A3	B12	B9	B7	—	—	A1	A1											
N1841	23°	12°	A3																								B4	*																		
N1842	15°~16°	55°~59°	* B5																								B6	B4	C4																	
N1843	20°	25°	A1																								*																			
N1844	19°~26°	308°~288°	H5																								E20	—	—	F62	F67	F72	F67	⇒												
N1845	14°	329°	*																								A1	A1																		
N1846	12°	319°	* A3																																											
N1847	15°~18°	260°~271°	B2																								B12	⇒																		(*) Mar 1 ^d
N1848	15°~19°?	215°~223°	A1																								⇒																		(*) Mar 5 ^d	
N1849	12°~13°	204°~212°	A1																								⇒																		(*) Mar 6 ^d	

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	Remarks			
	Latitude	Longitude																																
S1231	⇒																																	
S1234	⇒																																	
S1235	18°-20	248°-251																																
S1236	13°-14	226°-231																																
S1237	23°-26	159°-164																																
S1238	22°-24	37°-39																																
S1239	20°-22	307°-311																																
S1240	25°-29	350																																
S1241	16	34°-39																																
S1242	15°-13	264°-269																																
S1243	17°-19	295°-298																																
S1244	23°-24	198°-251																																
S1245	18°-22	119°-228																																
S1246	15	218																																

19.8

- = central Meridian-passage
- * = prearrange-day of Meridian-passage
- ⇒ = Continued group last Month

Observer
K. Fujimori

TABLE OF SUNSPOT GROUPS (MARCH 1967)

Heliographic			TABLE OF SUNSPOT GROUPS (MARCH 1967)																														
Year	Lat.	Long.	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
No.	Tude	Tude																															
N1844	→		F67 F75 F40	(*)	Feb 27																												
N1847	→		E29 E26 E12	-	-	-	D7 A1																										
N1848	→		J3 C13 D19	-	-	-	D30 C15	-	-	A1																							
N1849	→		C3 C6 B3	*																													
N1850	18-19	227-291	35 B8 C3	(*)	Feb 28																												
N1851	22-26	168-176	J2	-	-	-	C13 C12	-	-	D15 B8 B2																							
N1852	18	239	*																														
N1853	15-17	181-183	J2 A2																														
N1854	19-20	22-89	B4 - - B8 A3																														
N1855	26-29	75-87	A3 D8 C9 C3 *																														
N1856	19-18	44-46	C11 - - C7 - J2 A1																														
N1857	22-24	358-7	B2 - A1 B3 B4 A1																														
N1858	18-19	354-355	C10 - C14 J8 C7 C5 - J2 J4 J2																														
N1859	17-19	317-319	J4 - J4 J4 J3 J3 - J9 J2 J3																														
N1860	21-22	341-345	J2 - J3 C4 C11 C9 - J3 J3 J3																														
N1861	21-25	300-304	A1 B5 D5 -																														
N1862	19?	69?	H2 H3 H3 - H5 H7 H6 - - H15 - - →																														
N1863	15-18	332-336	*																														
N1864	18-25	281-297	A2																														
N1865	26-29	285-288	B4 - C3 A2 J2																														
N1866	14-16	259-268	J4 - E3 E4 E12 - - E55 - - →																														
N1867	25-28	336-342	J6 - B6 B4 A2 *																														
N1868	24	273-277	C9 C11 C12 - - A3																														
N1869	15	299	* A1 C10 B4 - - C3																														
N1870	17	276	C3 C6 J2 *																														
N1871	27	191-176	A1 *																														
			* C5 - - →																														
			A2 - - →																														

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																																			
S1239	⇒		J3	J4	(.)	Feb 26																															
S1242	⇒		C7	B6																																	
S1243	⇒		C10	C7	A2																																
S1244	⇒		A2	B13	B5																																
S1245	⇒		D21	D34	D30	—	.	—	E33	D15	—	—	B5																								
S1246	⇒		J2	J2	A2		*																														
S1247	9°-10'	287°-291'	C6	J3	B3	(*)	Feb 28																														
S1248	15°-21'	158°-168°							D41	E43	—	.	C41	C32	C21	C5																					
S1249	14°-16'	141°-144°											B2																								
S1250	23°	104°											A2	A3		*																					
S1251	13°-16'	35°-45°																																			
S1252	19°-22'	291°-302°																																			
S1253	23°	312°																																			
S1254	16°-19'	228°-234°																																			
S1255	16°	272°																																			

- = ^{16.5} Central Meridian-passage
 * = Rearrange-day of Meridian-passage
 ⇒ = Continued group last Month

Observer
 K. Fujimori

TABLE OF SUNSPOT GROUPS (APRIL 1967)

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			
N1861	⇒		J3	(*)	Mar. 26																														
N1864	⇒		D18	(*)	Mar. 27																														
N1870	⇒		A1	(*)	Mar. 28																														
N1871	⇒		J2	*																															
N1872	23°	175°	J3 - J2	*																															
N1873	28°-30°	279°-282°	A2	(*)	Mar. 28																														
N1874	18°	181°	A1	*																															
N1875	27°?	169°?	A1	*																															
N1876	32°-35°	203°-209°	* D4	D5	B4	B3																													
N1877	15°-16°	191°-194°	B5	C4	A1																														
N1878	19°	184°	* A3																																
N1879	11°-12°	112°-113°	J2	J3	J4	J5																													
N1880	20°-25°	105°-114°	A2	B6																															
N1881	24°	171°	*	A1																															
N1882	20°	121°-124°	B3	*																															
N1883	19°	87°-91°	B3	*																															
N1884	15°	55°	J2																																
N1885	25°-28°	341°-344°	J2																																
N1886	23°-25°	292°-294°	J2																																
N1887	23°	338°	A1																																
N1888	24°	319°	A1	*																															
N1889	26°-30°	227°-237°	J2	D9	C6	C11	D18	C16																											
N1890	15°	285°	A2	*	A1	A1																													
N1891	28°	292°	* A1																																
N1892	22°	284°	*	A1																															
N1893	34°	245°-250°																																	
N1894	14°-15°	180°-187°																																	
N1895	22°	127°																																	

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
S1252	⇒		E10 (*) Mar 26																													
S1254	⇒		D13 - c7 (-) Mar 31																													
S1256	20°	220°	A2 - A3																													
S1257	18°-19°	204°-207°	* c3																													
S1258	22°-25°	125°-133°	J2 c11 c7 c11																													
S1259	17°-19°	151°-158°	B7 D21 D31																													
S1260	19°	168°	* J4																													
S1261	20°-23°	292°-294°	J3 - - J3 J3 J2 J6 J5 J4 J5 J2																													
S1262	20°-21°	2°-5°	* J3 c6 c8 J6 A1																													
S1263	12°-14°	274°-280°	A4 c7 B14 B5 A3 B6																													
S1264	44°	299°-302°	B3 * 高緯度!!																													
S1265	23°	284°	A3 *																													
S1266	12°	264°-267°	B3 *																													
S1267	25°	338°-342°	* J4 J6 A1																													
S1268	14°-18°	204°-213°	B3 B6 - D13 D15 ⇒																													
S1269	17°-20°	152°-158°	D10 D17 ⇒ (-) May 3																													

20.4

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

Observer

K. Fujimori

Heliographic

TABLE OF SUNSPOT GROUPS (MAY 1967)

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		
N1894	→		-	D12	D11	C6	-	J2																											
N1895	→		-	A2	.	.	A1	*																											
N1896	20°-22'	107°-109'		J2	H2	H3	-	J3	-	J3	-	-	J2	J2	J2																				
N1897	11°-13'	190°-194'	*					C4																											
N1898	26°-27'	329°-330'											J2	J2	J2	J2	J2	J2	J2	J3	J4	J2	J2	J2	J2	J2	A1								
N1899	15'	322'																		A2	*														
N1900	15'	329'																		A2	*														
N1901	21°-22'	249°-271'																		A2	*														
N1902	20°-31'	215°-247'																				C7	F26	F36	F65	F92	F66	F113	-	-	-	-	-	-	
N1903	9°-15'	201°-199'																				H4	H3	H4	H9	-	-	-	-	-	-	-	-	-	
N1904	19°-26'	164°-173'																																	
N1905	5°-7'	249°-252'																																	
N1906	13°-14'	237°-239'																																	

19.6

Group No.	Geographic																															
	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
S1268	⇒		- J2 J2 J2 (*) Apr. 29																													
S1269	⇒		- C15 C24 C16 - J5 - J2																													
S1270	19°-20'	222°-226'	C5 B4 B2 (*) Apr. 28																													
S1271	22°-23'	129°-131'	* B3																													
S1272	22'	9'	A1																													
S1273	22'	0°-4'	B4 B3 *																													
S1274	13°-15'	333°-340'	B5 B7 B10 C15 C8 B6 A2																													
S1275	12'	311'	J2 J2 J1 *																													
S1276	11°-12'	282°-289'	J6 J5 J5 C5 J4 C12 J2 J2 J2 A1																													
S1277	14°-17'	277°-283'	J3 D12 C10 C14 C8 B7 B3 A3																													
S1278	2°	327'	* A1 A1 B3 B3																													
S1279	13°-18'	210°-222'	J2 J2 J2 J2 J3 C24 - - - - - ⇒																													
S1280	22'	227'	A1																													
S1281	18°-22'	171°-173'	C3 *																													

17.9

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

Observer
K. Fujimori

TABLE OF SUNSPOT GROUPS
JUNE 1967

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	
N1902	→		H5																												(.)		
N1903	→		D8 C3																												May 24, 25 (.)		
N1904	→		C13 C9 C5																												May 27. (.)		
N1907	20°	130°	J3 J2 A1																												May 30.		
N1908	15°	129°	A1 *																														
N1909	21°-31°	98°-117°	F57 F54 F58 — F38 F35 F23 E16																														
N1910	18°-15°	46°-53°	C8 C8 J3 J3 — — J2 .. A1																														
N1911	20°-21°	236°-237°		J2 J2 J2 J2 J2 J2 J2 J2 J2 A2																													
N1912	25°-26°	230°-231°		A1 J2 J4 J4 J2 J2 J2 J2 J2 — J2 A1																													
N1913	33°	220°		A1																												*	
N1914	25°-26°	208°-218°		C5 C5 B9 B7 B4 B6 B4 A3																													
N1915	11°-12°	200°-201°		J2 J2 J2 J2 J2 J2 J2 J3																													
N1916	18°-19°	243°-254°		C3 C10 B5 A1 A1 A1																													
N1917	16°-20°	167°-180°		B6 D11 D11 D29 E33 — G15 C8 — C9 J3																												⇒	
N1918	30°	223°		* A1																													
N1919	24°-27°	108°-114°		J2 — H3 H4 — H5 H3																												⇒	
N1920	20°-21°	50°-56°		J4 J3																												(.) ⇒ June 5	
N1921	13°-15°	85°-86°		B5																												(*) June 2	

20.8

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	Remarks (*) May 26			
	Latitude	Longitude																																		
S1289	⇒																																			
S1282	15~18	138~141	H9	H9	H7	-	J4	J3																												
S1283	11~12	45~49						B4	B3	A1	*																									
S1284	18	53									A1																									
S1285	13~15	27~34									*		C8	D9	C8	-	A2																			
S1286	18~17	253~257																																		
S1287	18	218																																		
S1288	12	271																																		
S1289	17	248																																		
S1290	20~20	152~162																																		
S1291	17	131																																		
S1292	14	37																																		

16.1

- - Central Meridian-passage
- * - prearrange-day of Meridian-passage
- ⇒ - Continued group last month

Observer.

K. Fujimori

TABLE OF SUNSPOT GROUPS
JULY 1967

Group No.	Heliographic																																	Remarks			
	Lat. Tude	Long. 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				
N1917	⇒		J3																																(*) June 26.		
N1919	⇒		H4	-	-	J4																													(*) June 30		
N1920	⇒		J3	-	-	c5	-	-	J4	-	-	-	A1																								
N1922	33°	159°	A1																															(*) June 2			
N1923	16°	136-141				B3																												(*) June 28			
N1924	18-19	350-351				J2	-	-	J2	-	-	A2	A1																								
N1925	24-25	345-350										* D18 B9	-	c8	J6																						
N1926	22-23	317-321										c5	B3																								
N1927	24-27	296-299										J3	-	B5	D8	C3	-	J3	A2																		
N1928	11°	203°																	A1	B3	-	A3	*														
N1929	31°	235°																	A1																		
N1930	29°	214°																																			
N1931	13-20	180-186																																		B2 * A1	
N1932	24-31	91-107																																		A1 H7 D19 E26 E50 E56 F65 - F56 F66 F57 ⇒	
N1933	13-19	79-93																																		J3 G7 G10 G11 G12 - G16 G21 G24 ⇒	
N1934	17°	218°																						*												A1	
N1935	30°	193°																																		*	A1 A3
N1936	11-14	49-58																																		J3 c6 - D8 D7 D8 ⇒	
N1937	17-21	66-74																																		B2 - D14 D16 D17 ⇒	
N1938	19-22	33-46																																		J2 - c5 c9 c8 ⇒	

Group No.	Heliographic																															Remarks			
	Lat-Lude	Longt-Lude	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	
S1290	⇒		J4																													June 27			
S1292	⇒		J2	--	J4	--	J2																												
S1293	18-20	160-69			D18	--	J3																												
S1294	20	18-23			B3		*																												
S1295	12-13	273-280						A1	J2	c4	B2																								
S1296	18-19	262-268						B3	--	J3	--	B3	A1																						
S1297	15-18	243-254						D9	D24	F34	--	D26	B10	A1	B2	B2																			
S1298	17-18	205-213						A1	c3	D5	--	c5	B7	B4																					
S1299	26-29	175-182												A1	B2	c5	c4	c9	J3	J2	J2	J2	J2												
S1300	20-21	159-166												A1	D5	c8	c6	B3	B2	--	B3														
S1301	20	199												A2																					
S1302	7-5	153-160													c12	c8	B7	B4	B2																
S1303	20-22	178-180												*	c4																				
S1304	18	148-149																																	
S1305	20	29																																(*) Aug. 3	

17.9

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

TABLE OF SUNSPOT GROUPS

AUGUST 1967

Group No.	Heliographic																																	
	Lat. tude	Long. 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	
N1932	⇒		E35	E26	E26	C4																									(*)			
N1933	⇒		E26	E20	D10	D5																									July 28, 29 (*)			
N1936	⇒		C7	C7	C6	C5	J3	J2																					July 29, 30					
N1937	⇒		C13	C10	J4	J2	J3	J2																					(*)					
N1938	⇒		C9	C11	C8	C4	C5	J2	J2	J2																					July 30			
N1939	18°-22'	293°-304'	C4 D15 D21 E29 E30 E30 E29 - C18 D19 - D5 A1																															
N1940	19'	347°-351'	A1 B3 .. A1 B5 B5																															
N1941	24°-30'	268°-278'	C3 C4 C7 B3 B4 *																															
N1942	19'	317'	A2 A1																															
N1943	12'	273'	B3 A1 *																															
N1944	24°-29'	327°-337'	D12 D14 *																															
N1945	23°-25'	245°-252'	* B5 B5 B8 C7 B4																															
N1946	18°-20'	218°-225'	* C17 D12 D10 D12																															
N1947	8°-11'	200°-211'	D28 E30 E37 - - E12																															
N1948	33'	250°-255'	* B4 A1																															
N1949	22°-28'	84°-94'	J3 - - E40 - E50 E45 E41 E43 E43 - E28 E17																															
N1950	24°-28'	94°-101'	C10 - B9 B10 B7 A1																															
N1951	14'	99'	A1 *																															
N1952	12°-15'	80°-87'	C7 - E21 D15 C25 C13 B9 - B3 A1																															
N1953	15°-18'	70°-78'	C5 - C6 C5 J2 J2 J2 - A1 A1																															
N1954	30'	83'	B3 B4 *																															
N1955	14'	92°-98'	* A3 B2																															
N1956	23°-28'	318°-328'	J2 - H12 H16																												(*) ⇒ Sep. 4			
N1957	26'	37'	* A1																															
N1958	15°-17'	292°-304'																													(*) ⇒ D 8 Sep. 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
S1305	⇒		J2	A1	A1																												
S1306	27°-25'	25°-32'	D5	D8	C11	C24	D16	D14	D8	D4																							
S1307	16°-22'	263°-273	H3 H7 H9 H14 H11 - C12 C16 - C7 J3 J2 J2																														
S1308	14°-15'	251°-252'	J2 J2 J2 - J2 J2 - J5 J3 J3 J2 J2																														
S1309	17°-18'	328°-331'	* B3 - A1																														
S1310	15°	243°	A1 - " " * A2																														
S1311	27°-30'	169°-170'	H2 H3 H3 H4 H3 - C9 - C5 C4 A1																														
S1312	28°?	114°?	A2 *																														
S1313	16°-20'	78°-87'	B7 C23 C16 D19 C29 - D10 C5 ⇒																														
S1314	30°	20°	A1 *																														
S1315	20°	18°	A1 *																														
S1316	26°-27'	337°-338'	J2 - J2 J2 (·) ⇒ Sep. 3																														
S1317	18°-19'	32°-37'	* C7 B10																														
S1318	25°-26'	351°-356'	D4 B3 (·) ⇒ Sep. 2																														
S1319	17°-20'	326°-334'	A1 Sep. 3																														

21.6

- - Central Meridian-passage
- * - prearrange-day of Meridian-passage
- ⇒ - continued group last month

TABLE OF SUNSPOT GROUPS

SEPTEMBER 1967

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								
N1956	⇒		-	-	D21	C21	-	C10	-	J2	J4	J2																												
N1958	⇒		-	-	E23	G17	-	C16	-																															
N1959	20°-25°	302-306°	D7 - A1																																					
N1960	25°-27°	274-278°	A1 - B7 *																																					
N1961	7°	225°	A1 - *																																					
N1962	20°-22°	311-315°	* - B4																																					
N1963	25°-29°	268-275°	A4 A3 D17 E21 E27 - D8																																					
N1964	10°-14°	124-193°	J2 J5 H6 J6 C9 - C6 C15 C11 J5 - J3																																					
N1965	18°-20°?	198-202°	* B3																																					
N1966	10°-11°	145-149°	* C3																																					
N1967	14°-16°	90-94°	* B3 A2 B7 D10 C10 C11																																					
N1968	23°-24°	83-87°	B3																																					
N1969	17°?	148°?	* J3																																					
N1970	26°	98°	* A3																																					
N1971	14°-15°	78-81°	* B3																																					
N1972	11°-13°	320-329°	J2 C5 D7 C8 C5 J4 ⇒ Oct. 1																																					
N1973	20°-23°	310-319°	A1 B2 C7 C7 B12 ⇒ Oct. 2																																					
N1974	10°-11°	22-29°	* B7 C10 A2																																					
N1975	13°-16°	340-350°	A2 B8 ⇒																																					
N1976	23°?	261°?	(*) A1 Oct. 6																																					

17.8

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			
	Latit- tude	Longi- tude																																	
S1313	⇒		-	-	c6	A3																												(*) Aug 26	
S1316	⇒		-	-	J2	J2	-	J3	-	A1																									
S1319	⇒		-	-	D11	C10	-	D7	-	c4	A1																								
S1320	19°-21'	286°-297'			c8	D10	-	c15	-																										
S1321	18°-21'	262°-263'			J2	J2	-	J2	-	J2	J3	J3	J3	J2	-	A1																			
S1322	26°?	9°?						A1																										(*) Aug 31	
S1323	18°-21'	219°-233'						J3	-	E15	E17	E12	C11	C5	-	J2	J2	A1																	
S1324	18°-20'	253°-259'								B3	*																								
S1325	26°-27'	147°-148'														J2	-	J2	J2	J2	J2	-	J2	-	-	J2	A1								
S1326	20°-24'	114°-125'																																	
S1327	13°-15'	288°-294'																																(*) ⇒ Oct. 3	

20.5

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

• N1960 & N1963 群は同一群か？

TABLE OF SUNSPOT GROUPS

OCTOBER 1967

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	
N1972	⇒		-	-	-	J2	-	J2																										
N1973	⇒		-	-	-	c10	-	J2																										
N1975	⇒		-	-	-	D7																												
N1977	12°-16'	228°-233'				A1	-	B4	-	c5	-	A1	A1																					
N1978	23°-24'	260°-262'						A4																										
N1979	10°-13'	258°-267'						*		A1	-	D12	D11																					
N1980	18°-19'	216°-218'																																
N1981	14°-17'	192°-200'																																
N1982	24°	260°						*				A1																						
N1983	13°-17'	48°-56'																																
N1984	9°-12'	22°-31'																																
N1985	12°	6°																																
N1986	21°	343°																																
N1987	11°-12'	332°-333'																																
N1988	19°-21'	349°-0°																																
N1989	17°-20'	318°-329'																																
N1990	19°-22'	302°-307'																																
N1991	14°-16'	271°-273'																																
N1992	18°-21'	252°-254'																																

(*) Sept. 29

(*) ⇒
(*) ⇒
NOV. 3

16.5

・ N1982群はN1978群の再発群か？

Group No.	Heliographic																																								
	Lat- tude	Long- 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								
S 1327	⇒		-	-	.	c 6	-	D 20	-	D 11																															
S 1328	(.)	15-21	253-262				c 11	-	c 4	-	J 2	-	A 1 A 1																												
S 1329		24-27	225-228				J 2	-	D 4	-	c 5	-	J 4 J 3																												
S 1330		17-19	312-318	*					D 6																																
S 1331		24	122								J 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
S 1332		25-28	277-285																																					(.) ⇒ Nov. 1	
S 1333		15-17	258-271																																				(.) ⇒ Nov. 2		
S 1334		19-20	247-248																																				(.) ⇒ Nov. 3		
S 1335		19-22	232-239																																				(.) ⇒ Nov. 4		

20.8

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

TABLE OF SUNSPOT GROUPS

		Heliographic		NOVEMBER 1967																														
Group No.	Lati-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		
N1987	⇒		J2																														(*) Oct. 28	
N1989	⇒		C11 - C5																														(*) Oct. 28	
N1991	⇒		J2 - J2 J2 - - J2																															
N1992	⇒		J5 - J4 J3 - - A1																															
✓ N1993	14-16	88-93									J2	C6	C6	C5	J3	J2	C3	-	-	D7	J2	-	J2											
✓ N1994	10-13	141-148									B3	D18	D17	D15	D16																			
✓ N1995	9-13	70-76									J2	J2	J2	J2	C6	-	-	C9	D8	-	D8	D7												
✓ N1996	19	43-46									J2	J2	B2	-	-	J2	C5																	
✓ N1997	6-12	33-45									D7	G8	G16	-	-	E34	G29	-	D18	D11	D9	-	J4											
N1998	16	99-104									*								C3	B2														
✓ N1999	18-19	23-28																																
✓ N2000	18-19	4-10																																
✓ N2001	18-22	313-327																																
N2002	10-14	269-276																																
✓ N2003	21-26	329-336																																
																																		* A1 D6 D19

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Group No.	Heliographic																																	
	Latit-ude	Longi-ude	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		
S1332	⇒		D7	-	J2	J2																												
S1333	⇒		C12	-	C13	C13	-	-	C8																									
S1334	⇒		J6	-	J4	J4																												
S1335	⇒		C4	-	D9	C10	-	-	D6	D4	D5	C4																						
S1336	(-)	25-26	263-267		*	C7	J3																											
S1337	10'	302'				A2																												
S1338	15-16	247-249			*				B2																									
S1339	27?	230?				*				J3																								
S1340	20-21	100-103								C6	J3	J2																						
S1341	13-14	119-121								*	C6																							
S1342	22-23	95-100								*										C5	D7													
S1343	14-15	34-38																		*	D7													
S1344	17-20	275-283																																
S1345	26-28	306-317																																
S1346	24	266-268																																
S1347	24-27	232-236																																

20.3

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

S1340 と S1342 群は同一群か？

T A B L E O F S U N S P O T G R O U P S

DECEMBER 1967

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	
N2001	⇒		D11																															(-) Nov. 25
N2002	⇒		C3																															(-) Nov. 29
N2004	21-22	266-271				D7	C4																											(-) Nov. 26
N2005	24-25	194-196				C6	B4	A1																										(-) Nov. 26
N2006	13-14	153-162				D5	C5	C3	J2	*																								
N2007	10-11	156-157				J2	J2	J3	J3	-	-	J3	-	-	J2																			
N2008	11-12	142-143				J2	J2	J2	J2	*																								
N2009	22-24	128-134																																
N2010	19-20	116-120																																
N2011	18?	108?																																
N2012	15-17?	93-99?																																
N2013	8-10	84-86																																
N2014	13-14	146-150																																
N2015	9-10	37-39																																
N2016	20-21	33-41																																
N2017	19-21	107-111																																
N2018	13	50																																
N2019	13-20	20-37																																
N2020	22?	348?																																
N2021	20-24	330-344																																
N2022	18	71																																
N2023	23-25	61-68																																
N2024	22-24	320-328																																
N2025	15	264																																
N2026	15?	344?																																
N2027	9	222																																

Helio-graphic			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	
Group No.	Lat. Tude	Longi. Tude																																
S1344	⇒																																	(.) Nov. 27
S1345	⇒																																	(.) Nov. 26
S1347	⇒																																	(*) Nov. 24
S1348	18-20	246-253																																(*) Nov. 30
S1349	13-15	244-247	*																															
S1350	14-17	115-123																																
S1351	23-24	99-100																																
S1352	14-18	90-98																																
S1353	21-27	104-117																																
S1354	31-32	84-93																																
S1355	15	45																																
S1356	20	55-59																																
S1357	23-28	309-313																																
S1358	16-17	323-330																																
S1359	20-23	243-253																																
S1360	19	285																																
S1361	10	345																																
S1362	13-18	250-262																																
S1363	18-19	258-263																																
S1364	11-13	195-201																																
S1365	19-20	291-298																																

19.0

