Geomagnetic and Solar Data

HELEN E. COFFEY, EDITOR

World Data Center A for Solar-Terrestrial Physics, NOAA, Boulder, Colorado 80302

NOVEMBER 1981

Day	Three-Hourly Indices Kp								Ар	Ср	Three-Hourly Indices Km				Am	aa (Provisional)												
,		1	2	3	4		5	6	7	8	Sum			-	2	3	•	4	5	6	7	8		N	S		м	
2	Q9 A Q5 Q0 A Q8 K	1 3-	1+ 3- 1		3 0+ 2+ 1- 3-		1 -			2 1+ 3-	15~ 10 16 12 20-	7 5 8 6 11	0.4 0.2 0.4 0.3 0.6	1 3- 1-	1+ 2+	1-	2+		1 - 2 - 2 -	2- 2- 2	1+ 2- 3- 3- 2-	2+ 1 3-	14 9 15 11 20	13 10 17 15 18	18 10 18 15 16	17 6 22 7 15	14 15 13 22 18	
6 7 8 9 10	Q4	3- 1+	5 - 1 -	1 4- 5 1 3+	2 3+ 5 2- 4		2+ 4- 4- 2 3+	1+ 3 4 1 2	2 3 1- 3-	3- 2+ 2- 1	17 26 30- 9+ 21-	9 19 27 4 13	0.5 1.0 1.2 0.2 0.8	3- 3- 2- 1+	4- 4- 1	1 3 4+ 1 3	24 34 5- 14		4 - 2	3	2 2 3 1 3	3- 2 2 1 3	29 46 8	17 30 38 9 22	19 23 45 13 27	16 29 48 12 22	19 25 35 10 27	С
12 13	D3 D2 Q6K D4	6 0+ 2+	7 - 0 + 3 +	3 5 0+ 3- 4-	4+	1		5- 2+ 1 5- 4-	4+ 1 2 4- 2+	5 - 1 3 5 2	32- 30- 9- 31- 26+	27	1.3 1.4 0.2 1.2	2 5 1 2+ 4+	3- 5+ 1 3	3 5- 1- 3- 3	3+ 1 4 3-	;	1 - 4 +	2+ 1 4+	4+ 2- 2- 4- 2	1+ 3	50 10 50	46 50 9 42 24	54 43 15 49 26	24 76 7 35 29	77 16 17 57 22	ĸ
16 17 18 19 20	D1	4- 4+ 4- 4- 3	3+	3 3- 4 3- 3	2+ 5 5- 3- 3+			2 5- 4- 3+ 2+	4- 5- 4+ 3	4+ 3+ 3-	25 33+ 31 23+ 22+	17 32 26 14 13	0.9 1.3 1.2 0.8 0.8	3 4- 3 3- 3-	3 3- 3- 2 2-	3- 3- 3+ 2	4		4 + 4 3	4+ 3+ 3		2+	52 42 23	29 54 36 26 24	31 53 29 20 24	21 48 28 14 17	39 59 38 32 31	
21 22 23 24 25	D5	2+ 3+		3- 3+ 3- 2 4-	3- 4+ 2-		3	2-	3 1 4- 2- 2+	2-	23+ 19+ 27 17+ 31-	15 11 20 9 27	0.8 0.6 1.0 0.5	2 3 2- 2+ 5-	2 2- 1+			. ;	2 4 - 3	2+ 4+ 2-	3+ 1 3+ 2- 2+	2 4 - 2 -		30 16 28 20 42	32 13 27 12 85	16 15 18 16 89	47 13 37 17 38	
28 29	Q2 Q7K Q3 Q1	3- 1- 3 3- 0		2+ 2- 1 1- 0	2- 1 1- 1		0+ 1- 1-	0+ 1+	3- 1- 1+ 1- 0	1 2+	18 7 11+ 8- 2+		0.5 0.1 0.3 0.1 0.0	1 3-	1+ 1+ 1+		0 t		0+ 1+ 1	0 2-	3- 1- 1+ 1	2-	18 7 11 7 2	19 6 12 9 4	15 10 14 8 5	16 9 15 12 5	11	CK CC CC
Меал							15	0.69										25.5	23.8	25.6	2	4.8						

	Three-Hourly Indices		Three-Hourly Indices					_ [
Doy	Kn 1 2 3 4 5 6 7 8	An	Ks 1 2 3 4 5 6 7 8	As	Sa	Prov R1	Ra	Rs	IMF
1 2 3 4 5	1- 1+ 1- 3- 2 3- 1+ 1+ 1+ 1 1- 0 1- 2- 2- 2 2+ 2- 1 3- 2- 2- 2+ 1 0 1- 1- 0+ 1+ 2+ 3- 2+ 2- 3- 3+ 3- 3 2+ 2 2-	13 8 14 10 21	2 2 1- 3 2+ 2+ 2- 2 1 1+ 1- 0+ 1- 1+ 2 2+ 3- 3- 2- 2 2- 2 3- 1+ 1 1+ 1- 0+ 2- 2 3- 3- 2 3- 2+ 3- 3- 2+ 2- 2	9 17 12	222.5* 241.3* 255.3* 263.1 254.1	165 222 218 231 207	168 223 225 265 205	178 199 214 222 212	T - T - TA - T - A -
6 7 8 9	2+ 2- 1- 2+ 3- 2- 2 3- 3- 4- 3+ 3+ 4- 3 2+ 2+ 3- 4 4+ 5 4- 4 3 1+ 1+ 1- 1 2- 2 1 1 1- 1+ 2+ 3 4- 3 3- 3 3-	16 32 47 8 25	3 2+ 1+ 2+ 2+ 2- 2+ 3- 3- 3 3- 3 3 3 2- 2- 3 3+ 4+ 5- 3+ 5- 3+ 2+ 2 1+ 1 1+ 2 1- 1 1+ 2- 3- 3 3+ 3- 2- 3 3+	25 46 9	244.6 241.4 234.7* 232.6 231.0*	199 192 166 134 147	196 188 163 152 153	202 199 191 189 187	A - A - A - AT - TA -
11 12 13 14 15	2- 2+ 3 3 6- 5- 4 4+ 5- 6- 4+ 4 3 2+ 1+ 1- 1- 0+ 0+ 1 1- 1 2- 3- 2+ 3- 3- 4- 4+ 4 4- 4 3+ 4- 3 3- 3- 3+ 2 2	50 50 8 42 29	3- 3- 3 4- 6 5 5- 5 5 5- 4 3 2+ 2- 1+ 1+ 1+ 1+ 1+ 1- 1 2 3 2+ 3+ 3 5- 4+ 5- 4 5+ 5 4+ 3+ 3- 4- 4- 2 3-	50 12 58	217.0 223.5 215.9 207.4 191.2	146 150 158 178 148	156 155 159 166 142	172 179 171 162 144	T - T - A - A -
16 17 18 19 20	3 3 - 2 - 2 2+ 4 - 3+ 3+ 3- 2+ 5 - 4+ 4+ 4 4 3+ 3- 3+ 4 4 3+ 4- 3+ 3- 2- 2+ 3- 3 3+ 3 2+ 3- 1+ 3- 3+ 3+ 3- 3- 3+	27 50 41 24 27	3 3+ 3 2 3- 3 4+ 4 4 3 3- 4 4+ 4+ 5- 4 3 3- 3+ 4- 4+ 3+ 4 4- 3- 2+ 2 3- 3 3- 3- 3- 3- 2+ 2 3- 3- 3 3- 3	42	181.2 172.7 160.8* 157.0 152.0	126 103 102 90 82	121 109 100 89 82	134 125 112 108 102	A - A - AT - AT - A -
21 22 23 24 25	2 1+ 3- 3- 3- 3+ 3+ 4- 3- 2- 3 3- 2 2+ 1- 2 2- 2- 2+ 4- 3+ 4+ 4- 4- 3- 1+ 1+ 1+ 3 2 2 2- 4+ 3 3+ 5- 4+ 3 2 3-	28 19 35 15 42	2- 2 2 3- 3- 3 3+ 4- 3 2+ 3- 2+ 2 2+ 1+ 2 2 1+ 2+ 4+ 4- 4 3+ 4 2 1+ 1+ 2 3+ 2- 1+ 2- 5- 4+ 4+ 5+ 5 3+ 3- 3-	18 38 14	153.9 152.7 151.9 150.4 159.1	78 79 65 59 60	68 69 61 61 60	104 103 102 100 110	A - A - A - AT - A -
26 27 28 29 30	2+ 2 2+ 2- 2+ 2+ 3- 1+ 1 1 2+ 1+ 0+ 0 0+ 1 2 1- 1- 0 1+ 2- 1 2+ 2+ 1- 0+ 0+ 1- 1- 1- 1 0 0 0 0+ 1- 0 0 1-	17 7 9 6 2	3- 2+ 2 2 2+ 3 3- 1+ 1+ 1+ 2 1 0+ 0 1 2+ 3 2- 2- 1- 2- 2- 2- 2 2+ 2- 1- 1- 1+ 1- 1 1- 1- 0 0+ 1- 1- 0+ 0 1-	8 14 8	178.3* 190.3 206.4* 226.5* 231.6		64 96 114 133 153	131 144 161 183 188	T - A - T - TA -
	Mean	24.1		27.2	203.3	135.6	136.5	157.6	;

This paper is not subject to U.S. Copyright. Published in 1982 by the American Geophysical Union.

Meon 24.1

Quiet days (Q) and disturbed days (D), geomagnetic planetary three-hour-range indices (Kp) (integers alone are equivalent to those normally given with a small zero), magnetic character figures (Cp), and average amplitude (Ap) (unit 2 nT) prepared by Geophysikalisches institut at the University of Gottingen, F.R. of Germany for the International Service of Geomagnetic Indices. Ten most quiet days [Q1-Q0[10]] and five most disturbed days [Q1-Q0] in confered from most quiet of disturbed days [Q1-Q0[10]] and five aost disturbed days [Q1-Q0] indices fix, Km, Ks, daily mean values, Am, An, Ag (University of Geomagnetic Indices as are prepared by M. Nenvielle of the Institut de Physique du Globe, Paris, France For as indices daily north (N) and south (S) values, and half-daily antipodal mean (M) values are given (Quiet 24-hour and 48-hour intervals centered on 1200 UT are indicated for really quiet as C and for quiet but with some slightly disturbed three-hour intervals as K. The first hundred years series of as is in IAGA Bulletin No.33, and complementary data are in IAGA Bulletin No.39. NOTE: as-indices are provisional from Johannary 1981 until further notice, in connection with change of southern hemisphere observatory.

Solar flux adjusted to 1 A.U. (Sa) prepared by National Research Council, Ottawa An asterisk denotes flux adjusted for burst. Observed solar flux (S) available from MC-A for STP.

Provisional sunspot numbers (Ra) are prepared by National Research Council, Ottawa An asterisk denotes flux adjusted for burst. Observed solar flux (S) available from MC-A for STP.

Provisional sunspot numbers (Ra) are prepared by National Research Council, Ottawa An asterisk denotes flux adjusted for burst. Observed solar flux (S) available from WC-A for STP.

Provisional sunspot number (RI) propagation, Moscow, USSR, and prepared from Thole observations for first half-day by the Institute for Terrestrial Magnetism, Innsphere and Radio Propagation, Moscow, USSR, and prepared from Thole observations for second