

FEDERATION DES SERVICES D'ANALYSE DE DONNEES ASTRONOMIQUES ET GEOPHYSIQUES
 FEDERATION OF ASTRONOMICAL AND GEOPHYSICAL DATA ANALYSIS SERVICES
 SERVICE INTERNATIONAL DES INDICES GEOMAGNETIQUES
 INTERNATIONAL SERVICE OF GEOMAGNETIC INDICES



Bureau des Publications SIIG - Bulletin Mensuel n°99 - 08 - Aout 1999
ISGI Publications Office Monthly Bulletin n°99 - 08 - August 1999

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Explanations about published data are given in Special Issue 1994 of ISGI Monthly Bulletin.

Ce Bulletin est adressé gracieusement aux Scientifiques intéressés, grâce à une dotation du FAGS et au soutien du laboratoire d'accueil, le CETP, et des organismes français de Recherche Scientifique (CNRS, INSU, BCMT).
 Nous remercions aussi tout particulièrement les collaborateurs du Bulletin (cités ci-dessous) qui nous fournissent les données à diffuser dans des délais aussi brefs que possible.

*This Bulletin is freely offered to interested Scientists thanks to a dotation from FAGS, and to the support of the hosting laboratory CETP and of French Organisations of Scientific Research (CNRS, INSU, BCMT).
 Special thanks are due to contributors (quoted below) for providing the here published geomagnetic data within shortly possible delay.*

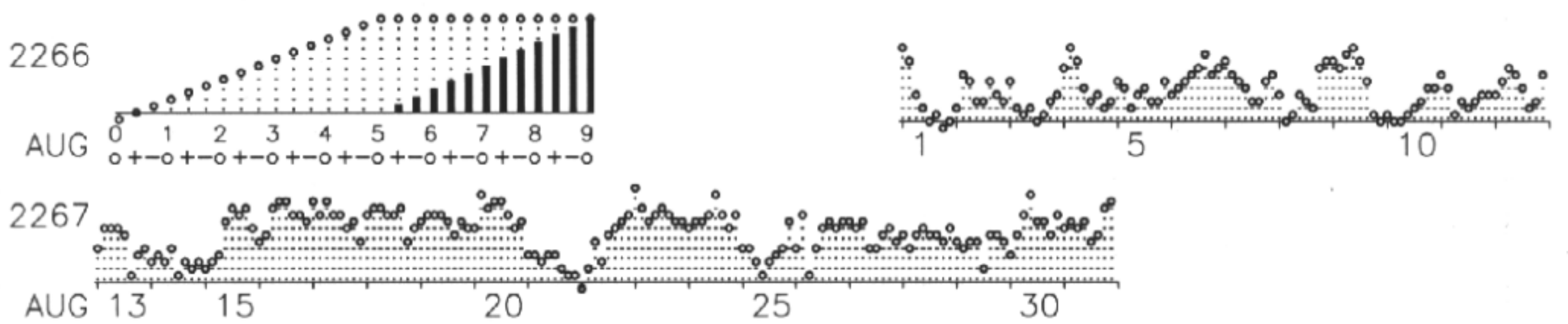
PRELIMINARY REPORT ON RAPID VARIATIONS		AUGUST 1999	
SSC - Storm Sudden Commencements		SFE - Solar Flare Effects	
04 02 19 08 18 41 15 10 44	A : WNG* HRB* NAG* COI GUI ETT B : NGK* BDV* CLF* GCK* EBR* HYB CNB C : QUE C : WNG NGK BDV QUE ETT A : HRB* NAG* COI GUI B : NUR* WNG NGK* BDV* CLF* GCK EBR QUE C : HYB ETT GNA CNB	02 0025-0035 02 2123-2140 04 0548-0635 10 1633-1650 20 2306-2315 21 1631-1640 21 2213-2220 25 0134-0145 26 1106-1111 28 0055-0100 31 1259-1304	MMB+ KAK+ KNY+ CNB MMB+ KAK+ KNY+ GUI MMB+ KAK+ KNY+ WNG NGK BDV+ MMB+ KAK+ KNY+ MMB+ KAK+ KNY+ BDV+ MMB+ KAK+ KNY+ BDV+
REPORTING OBSERVATORIES (up to 4th of October 1999) : SOD NUR WNG NGK BDV CLF HRB NAG GCK MMB EBR COI SPT KAK KNY QUE GUI HYB ETT GNA HER CNB			

	FIVE INTERNATIONAL QUIETEST DAYS					FIVE INTERNATIONAL MOST DISTURBED DAYS				
August 1999	14	3	21	10	2	20	23	24	17	18

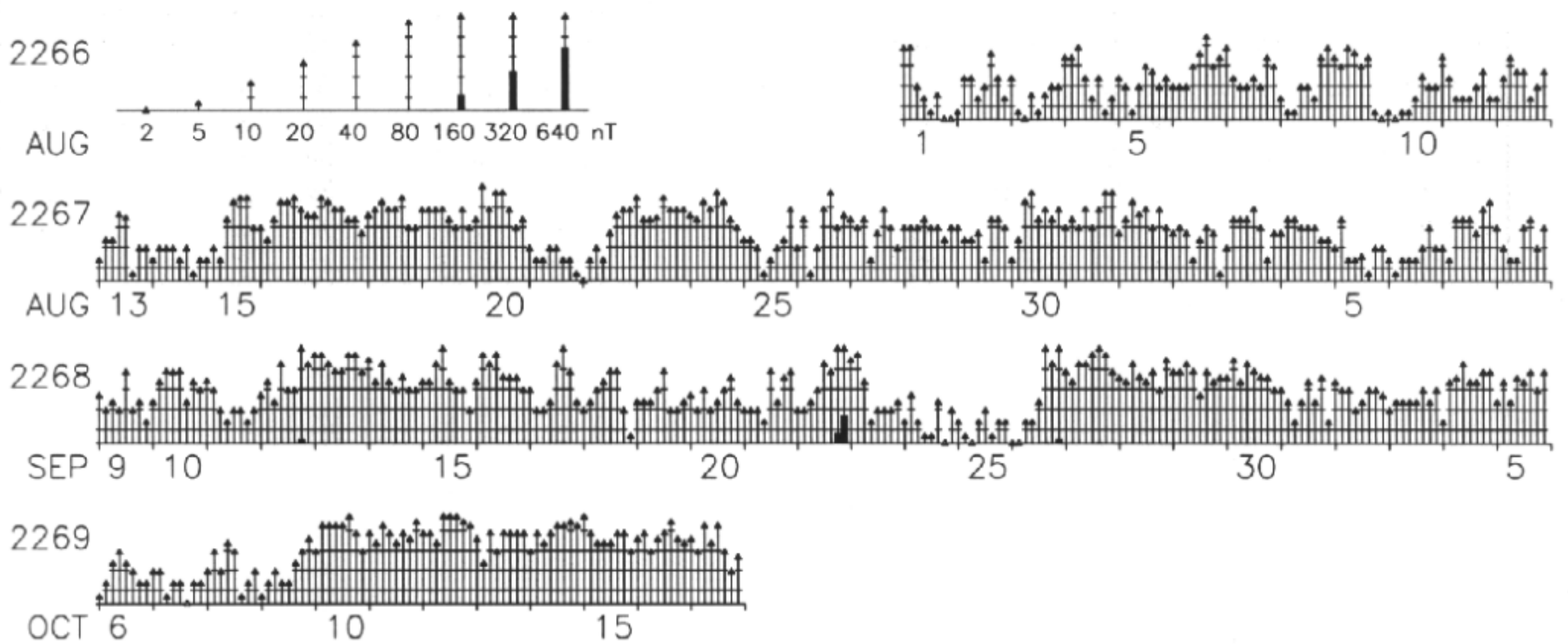
Directeur de la Publication : J. PARIS - Edité le 25/10/99 par E. LEMAULF
 Collaborateurs : J.O. CARDUS - J. GAPIHAN - T. KAMEI - M. MENVIELLE - M. SIEBERT - M. SUGIURA
 Bureau des Publications SIIG - fondé par A. BERTHELIER
 CETP 4, avenue Neptune - 94107 SAINT MAUR DES FOSSES CEDEX - FRANCE
 Téléphone : +33 +1 45 11 42 47 - Télécopie : +33 +1 48 89 44 33 Email : Josette.PARIS@cetp.ipsl.fr
 Web : <http://www.cetp.ipsl.fr/~isgi/homepag1.htm>

AUGUST 1999						Geomagnetic Indices (provisional)								Daily Average and Sum				
	aa				D	quiet days	am and Km for each three hour interval								Am Σ Km		Ap Σ Kp	
	N	S	am	pm			1	2	3	4	5	6	7	8				
1	17	16	28	5	16		52 4o	37 3+	13 2-	6 1o	2 0+	4 1-	0o	3 0+	15	11+	8	12-
2	18	11	11	18	15	K *	7 1o	22 3-	20 2+	9 1+	10 1+	18 2+	13 2-	8 1+	13	14o	6	13-
3	10	8	8	10	9	C *	18 2+	6 1o	5 1-	7 1o	3 0+	5 1-	10 1+	12 2-	8	9o	4	9+
4	19	22	32	9	20		27 3o	51 4o	35 3+	15 2o	8 1+	12 2-	7 1o	9 1+	21	18-	10	17-
5	17	12	11	18	15	C	17 2+	15 2o	7 1o	11 2-	14 2o	10 1+	8 1+	19 2+	13	14o	7	14o
6	33	22	15	40	28		13 2-	16 2o	17 2+	22 3-	29 3o	43 4-	26 3-	30 3o	25	21o	15	22-
7	24	18	21	21	21		34 3+	23 3-	17 2+	15 2o	9 1+	9 1+	20 2+	24 3-	19	18o	10	17+
8	16	15	8	24	16		11 2-	3 0+	5 1-	11 2-	9 1+	7 1o	30 3o	37 3+	14	13o	7	12+
9	24	26	35	16	25		36 3+	33 3o	42 4-	51 4o	34 3+	18 2+	4 1-	2 0+	28	21-	13	20-
10	11	6	4	12	8	CK *	4 1-	2 0+	2 0+	4 1-	6 1o	10 1+	14 2o	14 2o	7	8+	5	9o
11	19	9	16	12	14		23 3-	16 2o	5 1-	8 1+	6 1o	8 1+	13 2-	13 2-	12	12+	6	12+
12	19	15	19	15	17		11 2-	20 2+	33 3o	25 3-	16 2o	7 1o	9 1+	23 3-	18	17-	8	15+
13	13	22	20	16	18		15 2o	29 3o	28 3o	28 3o	21 3-	4 1-	12 2-	14 2o	19	18o	8	16-
14	9	10	11	8	10	CK *	8 1+	13 2-	10 1+	14 2o	5 1-	8 1+	6 1o	9 1+	9	11-	4	9-
15	43	26	15	54	35		6 1o	10 1+	11 2-	35 3+	54 4o	49 4-	52 4o	29 3o	31	22o	19	23+
16	52	33	33	52	42		18 2+	21 3-	51 4o	66 4+	63 4+	43 4-	49 4-	38 3+	44	28+	29	31-
17	47	38	52	33	42		66 4+	50 4-	66 4+	42 4-	46 4-	33 3o	34 3+	17 2+	44	28+	29	32-
18	50	37	47	40	44		49 4-	58 4o	52 4o	43 4-	43 4-	55 4o	20 2+	28 3o	44	28+	28	32-
19	45	32	45	31	38		40 3+	44 4-	46 4-	46 4-	34 3+	26 3-	34 3+	33 3o	38	27-	24	30+
20	56	55	65	46	55		33 3o	81 5-	54 4o	68 4+	63 4+	42 4-	28 3o	38 3+	51	30+	36	34+
21	9	9	10	8	9	C *	11 2-	11 2-	10 1+	13 2-	13 2-	7 1o	4 1-	4 1-	9	10+	5	10+
22	27	18	8	37	22		0 0o	6 1o	17 2+	9 1+	23 3-	32 3o	36 3+	48 4-	21	17+	12	17o
23	47	45	41	51	46		87 5o	52 4o	38 3+	44 4-	58 4o	46 4-	38 3+	39 3+	50	30+	31	33-
24	45	47	44	49	46		33 3o	35 3+	39 3+	50 4-	72 5-	49 4-	30 3o	43 4-	44	28+	29	32o
25	18	14	12	20	16		15 2o	14 2o	8 1+	5 1-	9 1+	11 2-	15 2o	37 3+	14	14+	9	15+
26	37	25	15	47	31		16 2o	42 4-	4 1-	15 2o	32 3o	37 3+	28 3o	37 3+	26	21o	16	22o
27	30	19	24	25	25		35 3+	30 3o	37 3+	15 2o	14 2o	23 3-	29 3o	18 2+	25	22-	13	22o
28	26	22	26	22	24		23 3-	16 2o	25 3-	32 3o	24 3-	22 3-	20 2+	27 3o	24	21o	12	22-
29	22	21	19	24	22		20 2+	14 2o	20 2+	20 2+	7 1o	25 3-	25 3-	17 2+	19	18-	10	18o
30	45	34	41	39	40		13 2-	24 3-	48 4-	78 5-	34 3+	38 3+	24 3-	41 4-	38	26-	23	28o
31	48	41	32	57	44		30 3o	35 3+	28 3o	39 3+	18 2+	25 3-	54 4o	61 4+	36	26o	22	28o

ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices Km(provisional) AUG 1999



ROT DAY IN SOLAR ROTATION INTERVAL Three-hour indices aa (logscale) AUG-OCT 1999



HOURLY EQUATORIAL DST VALUES (PROVISIONAL) - AUGUST 1999 -

DAY	Unit=NT																				U.T.			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	-28	-17	-11	-4	-20	-21	-19	-18	-23	-24	-21	-20	-20	-20	-20	-22	-20	-19	-17	-19	-17	-18	-22	-24
2	-25	-26	-26	-26	-25	-23	-23	-23	-25	-22	-21	-21	-20	-20	-19	-20	-19	-16	-14	-13	-14	-17	-18	-19
3	-16	-9	-10	-10	-10	-9	-6	-5	-6	-5	-7	-10	-12	-11	-11	-11	-7	-6	-8	-8	-4	2	4	3
4	-1	-3	9	14	7	6	-15	-15	-8	-3	-2	0	-3	-5	-5	-5	-12	-17	-16	-11	-5	-2	-8	-8
5	-7	-7	-12	-9	-4	-4	-2	2	2	1	-1	-4	-6	-2	-2	-4	-1	-3	-3	-1	3	5	2	6
6	10	14	6	7	9	11	13	21	15	18	11	8	5	3	-2	-21	-29	-29	-28	-27	-25	-23	-20	-18
7	-22	-26	-26	-26	-27	-26	-22	-20	-19	-15	-14	-19	-22	-21	-23	-24	-22	-20	-24	-27	-18	-15	-18	-20
8	-18	-19	-20	-21	-19	-16	-13	-12	-13	-14	-14	-15	-16	-16	-17	-18	-18	-19	-23	-27	-27	-23	-25	-28
9	-37	-42	-47	-47	-43	-36	-45	-45	-48	-52	-59	-62	-58	-50	-49	-45	-39	-35	-34	-34	-34	-32	-29	-25
10	-20	-19	-19	-17	-14	-13	-8	-6	-5	-3	1	1	1	2	2	2	-1	-3	1	1	-1	-2	-7	-7
11	-8	-11	-12	-12	-7	-9	-9	-10	-12	-9	-6	-7	-9	-9	-6	-4	-3	-1	1	-3	-2	0	-3	-4
12	1	-3	-5	-3	1	6	0	-13	-23	-22	-22	-20	-16	-12	-13	-12	-5	-5	-1	-2	-4	-2	-2	-4
13	-7	-9	-15	-21	-22	-23	-24	-23	-19	-21	-22	-18	-12	-8	-7	-9	-10	-13	-15	-17	-13	-13	-9	-7
14	-3	-3	-4	-6	-5	-2	-4	-5	-3	-7	-7	-3	-1	1	4	6	4	2	-1	1	1	1	1	-3
15	-4	-4	-1	0	3	5	8	6	4	1	6	22	23	19	2	4	17	-1	-2	-14	12	22	9	-7
16	-15	-9	-7	-11	-10	-4	6	2	-14	-18	-18	-22	-29	-31	-29	-31	-28	-27	-36	-36	-33	-28	-24	-26
17	-26	-26	-38	-42	-40	-47	-38	-44	-41	-38	-30	-29	-37	-45	-42	-32	-35	-32	-35	-36	-27	-25	-25	-30
18	-36	-36	-41	-47	-44	-40	-44	-47	-51	-46	-41	-34	-30	-33	-41	-38	-30	-33	-33	-35	-34	-29	-34	-33
19	-29	-31	-38	-40	-35	-40	-38	-35	-40	-32	-34	-29	-25	-29	-31	-31	-29	-27	-22	-19	-23	-18	-19	-23
20	-17	-18	-22	-35	-44	-48	-44	-53	-57	-47	-49	-61	-64	-52	-57	-62	-62	-54	-49	-48	-48	-44	-38	-39
21	-39	-35	-34	-32	-33	-34	-31	-32	-31	-28	-29	-25	-25	-27	-30	-30	-28	-26	-26	-26	-23	-21	-24	-28
22	-33	-33	-29	-27	-23	-23	-28	-25	-27	-27	-25	-29	-32	-33	-31	-30	-30	-38	-40	-46	-48	-42	-36	-46
23	-56	-58	-54	-58	-57	-57	-59	-49	-52	-56	-56	-66	-60	-75	-74	-80	-78	-69	-65	-60	-55	-58	-54	-49
24	-44	-51	-60	-64	-60	-55	-46	-37	-38	-53	-55	-59	-62	-64	-60	-58	-48	-49	-48	-50	-48	-41	-39	-40
25	-34	-31	-28	-30	-26	-27	-23	-20	-18	-16	-15	-16	-19	-23	-23	-23	-19	-19	-21	-23	-19	-20	-23	-28
26	-28	-30	-29	-29	-25	-18	-13	-11	-12	-11	-8	-10	-16	-25	-28	-39	-44	-39	-34	-33	-36	-38	-46	-47
27	-40	-35	-34	-34	-30	-28	-27	-28	-24	-18	-17	-17	-19	-21	-22	-21	-17	-17	-20	-29	-33	-31	-29	-28
28	-28	-33	-31	-25	-21	-23	-24	-23	-27	-22	-26	-33	-32	-35	-37	-33	-28	-24	-22	-23	-22	-25	-29	-29
29	-29	-30	-26	-21	-17	-12	-14	-14	-11	-14	-18	-21	-24	-22	-22	-20	-18	-19	-23	-27	-25	-27	-27	-27
30	-29	-27	-27	-24	-17	-14	2	1	-12	-18	-6	0	-13	-26	-21	-26	-27	-26	-26	-24	-20	-18	-18	-22
31	-17	-18	-19	-26	-21	-17	-18	-17	-11	-10	-10	-17	-21	-15	-12	-14	-19	-16	-25	-35	-35	-35	-45	-43

DST
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