

№. 63 635 - III

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INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS

INTERNATIONAL ASSOCIATION OF GEOMAGNETISM AND AERONOMY

INDICES OF GEOMAGNETIC ACTIVITY

OBSERVATORY *Novolazarevskaya* DATE-VALUES OF VARIOMETERS

MONTH *January* 19 *78*

IN Y/MM

RANGE FOR K=9..... *1500* Y

D..... H..... Z.....

GR	K- INDICES FOR THREE-HOUR INTERVAL										SUM
	00 ^h - 03 ^h	03 ^h - 06 ^h	06 ^h - 09 ^h	09 ^h - 12 ^h		12 ^h - 15 ^h	15 ^h - 18 ^h	18 ^h - 21 ^h	21 ^h - 24 ^h		
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11	I	2	2	2		2	2	I	I	I3	
12	2	2	2	2		I	I	2	2	I4	
13	I	2	2	2		2	2	2	3	I6	
14	I	I	I	0		I	I	2	I	8	
15	I	I	I	2		I	0	I	I	8	
16	I	I	2	2		2	5	4	4	2I	
17	4	4	2	2		I	2	2	3	20	
18	5	4	2	2		I	I	I	I	I7	
19	3	2	I	2		2	2	2	I	I5	
20	I	2	2	I		I	I	0	0	8	
21	0	I	I	I		I	I	I	I	7	
22	I	I	2	2		I	I	I	I	I0	
23	0	I	I	I		2	I	2	I	9	
24	I	I	I	2		2	2	2	I	I2	
25	2	2	2	3		2	3	3	5	22	
26	5	4	3	2		2	2	2	2	22	
27	I	2	I	I		I	I	2	2	I1	
28	I	I	I	I		I	2	3	4	I4	
29	4	5	5	4		5	5	4	3	35	
30	3	4	7	5		3	2	3	5	32	
31	5	5	3	3		3	4	5	4	32	

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INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS

INTERNATIONAL ASSOCIATION OF GEOMAGNETISM AND AERONOMY

INDICES OF GEOMAGNETIC ACTIVITY

OBSERVATORY *Novolazarevskaya* SCALE-VALUES OF VARIOMETERS
 MONTH *February* 19 *78* IN Y/MM
 RANGE FOR K=9..... *1500* Y D..... H..... Z.....

GR DAY	K- INDICES FOR THREE-HOUR INTERVAL								SUM	
	00 ^h - 03 ^h	03 ^h - 06 ^h	06 ^h - 09 ^h	09 ^h - 12 ^h		12 ^h - 15 ^h	15 ^h - 18 ^h	18 ^h - 21 ^h		21 ^h - 24 ^h
1	5	4	3	2		2	3	3	4	26
2	4	3	2	2		2	2	3	3	21
3	5	3	2	2		I	3	3	3	22
4	5	3	2	2		2	I	2	2	19
5	5	5	7	3		2	3	5	2	32
6	3	2	2	2		2	3	4	3	21
7	2	I	2	I		I	2	3	3	15
8	2	I	2	2		2	2	3	3	17
9	3	I	3	3		3	3	4	4	24
10	3	2	2	I		2	3	3	2	18
11	2	I	2	2		2	2	2	2	15
12	I	2	3	2		2	2	2	4	18
13	3	3	3	2		I	3	3	2	20
14	2	I	2	2		I	2	2	4	16
15	4	6	6	6		3	3	2	2	32
16	2	I	2	2		2	2	3	5	19
17	5	4	2	I		2	2	2	3	21
18	4	3	2	2		2	2	3	3	21
19	5	6	2	2		I	I	2	5	24
20	I	8	2	0		I	6	3	2	23
21	2	3	I	I		2	3	5	5	22
22	5	5	4	2		2	3	3	5	29
23	3	I	2	2		I	I	2	2	14
24	2	2	I	2		I	I	I	2	12
25	2	2	2	2		I	I	4	5	19
26	6	5	3	3		4	4	5	4	34
27	6	5	5	3		4	4	5	7	39
28	6	7	4	3		3	3	5	5	36
29										
30										
31										

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МАРТ 1978г.

НОВОЛАЗАРЕВСКАЯ

K₉ = 1500

Суточные характеристики

Дата	Амплитуды			Характер С	K индекс									Дата
	ΔD	ΔH	ΔZ		0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	ΣK	
1					4	5	3	4	2	4	6	8	36	I
2					6	4	4	4	3	2	4	4	31	2
3					5	4	4	3	1	2	4	4	27	3
4					2	I	I	2	I	I	2	2	I2	4
5					2	0	2	2	2	3	3	2	I6	5
6					I	I	I	2	2	I	2	2	I2	6
7					I	I	I	2	2	I	2	2	I2	7
8					I	I	2	2	3	3	6	6	24	8
9					3	3	3	2	2	2	3	2	20	9
10					I	I	4	3	3	2	2	1	I7	10
11					2	I	2	2	I	I	2	2	I3	11
12					I	0	2	I	I	2	2	2	11	12
13					2	2	3	2	2	I	4	4	20	13
14					4	3	2	I	2	2	3	2	I9	14
15					4	7	3	2	2	2	2	6	28	15
16					5	7	6	2	2	4	4	6	36	16
17					5	5	4	2	2	2	5	3	28	17
18					5	5	3	3	2	4	3	4	29	18
19					6	5	2	2	2	3	2	2	24	19
20					3	2	2	2	I	2	3	3	I8	20
21					3	3	2	2	I	I	2	2	I6	21
22					2	2	3	2	I	I	5	6	22	22
23					6	3	3	2	I	2	2	I	20	23
24					I	2	2	2	I	I	2	4	I5	24
25					I	I	0	I	0	I	I	2	7	25
26					7	6	3	2	3	5	8	4	38	26
27					8	7	5	4	3	5	5	6	43	27
28					6	6	3	3	3	2	3	2	28	28
29					3	3	2	2	3	2	3	2	8	29
30					3	2	2	3	3	3	4	5	25	30
31					I	I	I	I	2	2	2	2	I2	31
Среднее														

INDICES OF GEOMAGNETIC ACTIVITY

OBSERVATORY. *Nosolazarewskaja* VALUES OF VARIOMETERSMONTH. *April* 19 *78*

IN Y/MM

RANGE FOR K=9..... *1500* Y

D.....

H.....

Z.....

GR	K- INDICES FOR THREE-HOUR INTERVAL								SUM
	00 ^h - 03 ^h	03 ^h - 06 ^h	06 ^h - 09 ^h	09 ^h - 12 ^h	12 ^h - 15 ^h	15 ^h - 18 ^h	18 ^h - 21 ^h	21 ^h - 24 ^h	
1	5	4	5	2	I	I	3	3	24
2	5	5	2	2	2	I	2	5	24
3	I	6	6	4	3	3	5	8	36
4	7	6	6	3	2	5	7	7	43
5	8	5	3	I	2	2	3	3	27
6	3	4	2	2	2	I	I	I	I6
7	I	I	I	I	I	I	I	2	09
8	I	I	I	I	I	I	2	0	08
9	I	2	2	2	I	I	I	3	I3
10	I	I	I	I	2	3	4	6	I9
11	7	7	5	3	2	3	3	5	35
12	7	4	3	3	2	2	3	4	28
13	3	3	2	3	3	2	4	7	27
14	6	6	6	5	4	3	5	7	42
15	6	6	4	3	2	2	3	3	29
16	4	3	2	2	I	I	I	2	I6
17	2	2	2	I	I	I	I	I	II
18	6	6	4	2	I	2	3	2	26
19	2	4	6	4	3	4	6	4	33
20	6	6	3	3	2	2	2	3	27
21	4	2	2	I	2	I	3	2	I7
22	I	2	I	2	I	I	I	3	I2
23	5	4	2	3	2	2	3	5	26
24	6	7	6	4	3	4	3	4	37
25	6	4	3	3	2	3	2	2	25
26	6	5	5	3	2	2	4	3	30
27	5	2	2	2	2	3	2	6	24
28	6	6	2	3	2	I	4	2	26
29	3	2	2	2	I	2	3	3	I8
30	5	5	2	4	4	6	3	6	35
31									

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INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS

INTERNATIONAL ASSOCIATION OF GEOMAGNETISM AND AERONOMY

INDICES OF GEOMAGNETIC ACTIVITY

OBSERVATORY *novolazarevskaya* SCALE-VALUES OF VARIOMETERS

MONTH *may* 18 78 IN Y/MM
 RANGE FOR K=9 *1500* Y D..... H..... Z.....

GR	K- INDICES FOR THREE-HOUR INTERVAL								SUM	
	00h-03h	03h-06h	06h-09h	09h-12h	12h-15h	15h-18h	18h-21h	21h-24h		
1	5	6	7	4		6	3	6	9	46
2	6	7	8	7		6	3	4	5	46
3	5	6	6	5		5	4	7	7	45
4	9	9	7	7		4	3	3	2	44
5	2	2	2	I		2	I	2	4	I6
6	2	I	0	I		I	0	I	3	09
7	3	2	2	2		I	I	2	I	I4
8	3	3	3	2		3	2	2	I	I9
9	5	7	9	6		5	4	5	3	44
10	2	I	I	I		I	I	2	6	I5
11	6	7	6	3		2	2	3	5	34
12	6	5	3	2		2	2	4	4	28
13	6	2	I	I		I	I	0	3	I5
14	3	3	2	2		I	I	4	3	I9
15	I	I	0	2		0	0	I	0	05
16	3	2	I	I		I	2	2	I	I3
17	2	2	3	I		I	I	I	3	I4
18	2	3	I	I		I	2	I	I	I2
19	2	2	I	2		I	0	I	0	09
20	3	3		2		I	0	I	0	I0
21	2	3	2	2		2	2	5	7	25
22	6	5	2	2		2	4	5	6	32
23	5	6	5	3		3	2	3	6	33
24	5	4	4	3		3	3	3	6	3I
25	5	3	3	2		2	I	I	4	2I
26	4	2	2	2		2	I	2	I	I6
27	3	3	3	2		I	I	0	3	I6
28	2	2	I	2		2	I	3	2	I5
29	3	2	I	I		I	I	3	3	I5
30	8	7	5	3		I	I	I	2	28
31	5	5	3	I		2	I	I	I	I9

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INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS

INTERNATIONAL ASSOCIATION OF GEOMAGNETISM AND AERONOMY

INDICES OF GEOMAGNETIC ACTIVITY

OBSERVATORY *Novolazarevskaya* VALUES OF VARIOMETERS

MONTH *June* 19 *78*

IN Y/MM

RANGE FOR K=9..... *1500*. Y

D.....

H.....

Z.....

GR	K- INDICES FOR THREE-HOUR INTERVAL								SUM
	00 ^h - 03 ^h	03 ^h - 06 ^h	06 ^h - 09 ^h	09 ^h - 12 ^h	12 ^h - 15 ^h	15 ^h - 18 ^h	18 ^h - 21 ^h	21 ^h - 24 ^h	
1	I	4	2	2	I	2	0	3	15
2	I	2	4	5	4	4	6	5	31
3	7	6	4	4	2	2	4	2	31
4	4	5	I	2	3	2	4	6	27
5	8	7	5	4	2	2	3	4	35
6	3	2	2	2	I	2	3	3	18
7	3	4	4	I	I	I	2	3	19
8	5	5	4	I	I	I	I	I	19
9	0	2	2	I	I	0	0	I	7
10	2	I	3	3	2	2	2	4	19
11	5	5	5	4	2	I	I	2	25
12	I	I	I	2	2	2	3	2	14
13	I	I	I	I	I	0	I	I	7
14	2	I	I	I	I	I	I	2	10
15	2	3	2	2	I	0	0	0	10
16	0	I	I	I	2	I	I	2	9
17	2	3	2	2	I	I	2	I	14
18	3	2	2	2	2	I	I	I	14
19	3	3	3	2	2	2	2	5	22
20	5	4	3	2	I	I	I	3	20
21	7	7	5	2	2	2	5	4	34
22	5	4	3	3	3	2	3	3	26
23	5	3	3	4	2	2	4	5	28
24	6	5	5	3	2	2	I	4	28
25	3	3	3	3	I	2	3	5	23
26	4	6	6	5	2	5	5	4	37
27	5	5	5	2	2	I	3	2	25
28	3	4	2	2	I	2	I	I	16
29	0	I	I	2	I	I	I	7	14
30	5	5	5	3	3	2	3	0	26
31									

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INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS

INTERNATIONAL ASSOCIATION OF GEOMAGNETISM AND AERONOMY

INDICES OF GEOMAGNETIC ACTIVITY

OBSERVATORY *Novolazarevskaya* SCALE-VALUES OF VARIOMETERS

MONTH *JULY* 19 *78*

IN Y/MM

RANGE FOR K=9 *1500* Y

D..... H..... Z.....

GR DAY	K- INDICES FOR THREE-HOUR INTERVAL								SUM
	00h- 03h	03h- 06h	06h- 09h	09h- 12h	12h- 15h	15h- 18h	18h- 21h	21h- 24h	
1	0	0	I	I	I	0	I	0	4
2	2	I	I	I	0	I	0	2	8
3	2	I	2	2	0	0	I	5	I3
4	7	5	6	3	3	6	3	7	40
5	6	7	7	4	3	2	3	3	35
6	4	2	3	I	I	I	I	I	I4
7	4	3	2	2	I	2	2	3	I9
8	4	3	2	I	I	3	3	3	20
9	3	I	I	I	I	I	I	I	I0
10	I	I	2	2	I	0	I	I	9
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21	3	I	0	I	0	0	0	0	5
22	3	3	3	I	0	0	2	3	I5
23	2	3	3	0	0	I	4	3	I6
24	3	I	I	I	0	0	3	3	I2
25	4	2	0	I	0	I	2	4	I4
26	3	2	I	0	0	0	I	2	9
27	8	0	I	I	0	0	0	3	I3
28	2	3	2	I	0	0	0	0	8
29	0	0	2	I	I	0	0	3	8
30	2	I	I	0	0	0	0	0	4
31	0	0	I	0	0	0	0	0	I

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INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS

INTERNATIONAL ASSOCIATION OF GEOMAGNETISM AND AERONOMY

INDICES OF GEOMAGNETIC ACTIVITY

OBSERVATORY *Novolazarevskaya* SCALE-VALUES OF VARIOMETERS

MONTH *August* 19...78

IN Y/MM

RANGE FOR K=9...1500 Y

D..... H..... Z.....

GR	K- INDICES FOR THREE-HOUR INTERVAL								SUM	
	00 ^h - 03 ^h	03 ^h - 06 ^h	06 ^h - 09 ^h	09 ^h - 12 ^h	12 ^h - 15 ^h	15 ^h - 18 ^h	18 ^h - 21 ^h	21 ^h - 24 ^h		
1	I	I	0	I		0	0	0	2	5
2	2	0	0	0		0	0	I	2	5
3	2	2	2	2		2	3	3	5	2I
4	6	7	3	4		2	I	3	2	28
5	3	3	4	3		3	2	4	4	26
6	4	5	5	2		2	2	3	3	26
7	4	I	I	2		I	I	3	2	I5
8	2	I	I	2		I	I	I	I	I0
9	I	2	I	I		0	0	I	I	7
10	2	I	I	I		0	0	I	3	8
11	2	2	2	I		I	2	2	0	I2
12	4	5	6	4		4	2	2	3	30
13	5	4	2	3		3	I	2	3	23
14	3	2	2	2		I	0	I	0	II
15	I	8	0	I		0	0	I	I	I2
16	I	I	0	I		0	0	I	3	7
17	2	0	I	2		2	I	I	2	II
18	4	2	I	2		I	I	5	5	2I
19	5	I	3	3		2	2	I	I	I8
20	I	I	I	I		0	0	0	0	4
21	2	2	I	I		0	0	0	3	9
22	3	2	I	I		I	0	0	0	8
23	I	I	I	I		0	0	I	3	8
24	2	I	2	I		0	0	0	I	7
25	2	I	2	2		I	I	2	2	I3
26	2	I	I	I		0	I	I	I	8
27	3	4	3	3		3	3	3	6	28
28	7	9	9	7		6	4	4	6	52
29	7	6	6	4		3	3	3	4	36
30	5	3	4	3		3	4	5	6	33
31	6	4	4	5		3	5	3	3	33

INDICES OF GEOMAGNETIC ACTIVITY

OBSERVATORY *Novolazarevskaya* SCALE-VALUES OF VARIOMETERS

MONTH. *September 19 78*

IN Y/MM

RANGE FOR K=9..... **1500**

D..... H..... Z.....

GR DAY	K- INDICES FOR THREE-HOUR INTERVAL										SUM
	00 ^h - 03 ^h	03 ^h - 06 ^h	06 ^h - 09 ^h	09 ^h - 12 ^h	12 ^h - 15 ^h	15 ^h - 18 ^h	18 ^h - 21 ^h	21 ^h - 24 ^h			
1	6	3	5	3		2	2	2	3		26
2	3	3	4	2		2	2	3	4		23
3	3	3	4	2		2	I	2	2		19
4	3	2	2	2		I	I	3	2		16
5	2	I	I	I		I	I	2	4		13
6	4	4	4	3		2	2	I	I		21
7	I	2	I	2		I	2	I	2		12
8	7	7	4	2		I	I	2	2		26
9	2	3	3	4		3	3	3	6		27
10	5	2	I	2		2	2	I	2		17
11	3	I	I	2		2	3	4	3		19
12	4	2	2	3		2	2	4	4		23
13	4	I	2	2		I	2	I	I		14
14	3	I	2	I		I	I	I	I		11
15	I	I	I	I		I	I	I	3		10
16	2	3	2	I		I	I	I	2		13
17	I	3	3	3		I	I	I	2		15
18	I	I	I	I		I	I	I	I		8
19	I	I	I	I		0	I	0	I		6
20	2	I	0	0		I	I	I	3		9
21	I	4	3	2		I	I	I	I		14
22	2	2	2	2		2	2	3	3		18
23	2	3	2	2		2	I	3	3		18
24	2	3	2	I		I	2	2	5		18
25	4	4	4	4		4	5	5	4		34
26	5	6	5	5		2	3	3	3		32
27	8	6	5	3		3	6	7	7		45
28	6	6	4	4		4	3	3	7		37
29	5	8	8	6		6	5	3	2		43
30	I	3	3	2		2	I	2	3		17
31											

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INDICES OF GEOMAGNETIC ACTIVITY

OBSERVATORY *Novolazarevskaya* ME-VALUES OF VARIOMETERS

MONTH *October* 19 *78*

IN Y/MM

RANGE FOR K=9 **1500**Y

D..... H..... Z.....

GR DAY	K- INDICES FOR THREE-HOUR INTERVAL								SUM
	00 ^h - 03 ^h	03 ^h - 06 ^h	06 ^h - 09 ^h	09 ^h - 12 ^h	12 ^h - 15 ^h	15 ^h - 18 ^h	18 ^h - 21 ^h	21 ^h - 24 ^h	
1	4	2	2	2	1	2	3	4	20
2	2	3	2	2	2	2	3	3	19
3	3	2	2	1	1	1	1	1	12
4	3	5	5	3	3	3	4	4	30
5	3	3	1	1	1	2	1	1	14
6	1	1	2	1	1	1	1	2	10
7	2	2	1	1	1	1	0	1	15
8	1	2	2	1	1	1	1	3	12
9	0	2	2	3	1	2	2	5	17
10	5	5	2	2	2	1	1	3	21
11	2	1	2	1	1	1	0	1	9
12	1	2	1	3	3	3	3	3	19
13	4	2	3	1	0	0	1	2	13
14	2	2	1	1	0	1	2	1	10
15	2	1	1	2	2	1	1	1	11
16	2	2	1	1	1	1	0	1	9
17	1	1	1	1	1	1	2	4	12
18	6	5	6	3	2	3	5	5	33
19	4	5	4	3	3	2	3	4	28
20	4	3	1	3	1	2	2	1	17
21	2	3	2	3	1	2	2	4	19
22	3	4	3	2	2	2	2	1	19
23	2	3	2	2	1	2	1	1	14
24	3	2	1	2	0	1	2	1	12
25	1	2	2	2	2	2	2	1	14
26	1	2	3	2	2	4	5	6	25
27	5	5	6	4	3	3	2	3	31
28	4	5	6	2	1	2	2	4	26
29	3	2	2	2	2	5	5	3	24
30	2	5	4	4	4	5	5		29
31	5	4	3	2	3	4	4	3	28

INDICES OF GEOMAGNETIC ACTIVITY

OBSERVATORY *Novolazarevskaya* E-VALUES OF VARIOMETERS
 MONTH *November* 19 *78* IN Y/MM
 RANGE FOR K=9..... *1500* Y D..... H..... Z.....

GR	K- INDICES FOR THREE-HOUR INTERVAL										SUM
	00h- 03h	03h- 06h	06h- 09h	09h- 12h	12h- 15h	15h- 18h	18h- 21h	21h- 24h			
1	3	3	3	3		2	2	2	3	21	
2	I	I	2	2		3	4	2	3	18	
3	3	2	2	2		2	3	4	5	23	
4	3	3	2	2		2	2	I	2	17	
5	4	4	2	2		2	I	I	0	16	
6	I	0	I	2		I	0	0	I	6	
7	2	I	I	0		I	I	2	6	14	
8	5	4	3	3		2	3	2	3	25	
9	4	2	3	2		I	2	0	0	14	
10	2	2	I	2		I	3	5	6	22	
11	5	5	3	I		I	2	3	4	29	
12	7	4	5	6		5	4	4	6	41	
13	7	6	3	2		3	4	5	2	32	
14	I	I	0	0		3	4	4	2	15	
15	2	4	3	2		2	2	2	2	19	
16	2	2	2	2		2	I	2	I	14	
17	2	I	2	2		2	I	I	I	12	
18	2	I	2	I		2	I	2	2	13	
19	2	4	2	2		3	3	I	2	19	
20	3	6	3	2		3	4	5	5	31	
21	5	3	3	2		2	2	3	4	24	
22	4	3	4	3		4	5	3	2	28	
23	3	I	I	3		3	3	3	3	20	
24	3	2	2	2		3	5	7	4	28	
25	4	5	6	4		5	6	7	4	41	
26	6	6	5	3		3	4	4	4	35	
27	3	2	3	3		3	4	3	3	24	
28	2	3	2	2		2	2	I	I	15	
29	2	I	2	2		I	2	I	I	12	
30	2	3	I	2		2	2	2	2	16	
31											

INDICES OF GEOMAGNETIC ACTIVITY

OBSERVATORY *Novolazarevskaya* SCALE-VALUES OF VARIOMETERSMONTH *December* 19 *78*

IN Y/MM

RANGE FOR K=9.....*1500*_Y

D..... H..... Z.....

GR	K- INDICES FOR THREE-HOUR INTERVAL										SUM
	00 ^h - 03 ^h	03 ^h - 06 ^h	06 ^h - 09 ^h	09 ^h - 12 ^h	12 ^h - 15 ^h	15 ^h - 18 ^h	18 ^h - 21 ^h	21 ^h - 24 ^h			
1	2	3	2	3		2	2	2	2		18
2	I	I	I	I		I	I	I	2		9
3	2	2	I	2		I	2	2	2		14
4	I	2	2	3		3	3	4	3		21
5	4	3	I	2		I	I	2	2		16
6	I	2	I	I		I	2	2	2		12
7	I	2	I	I		I	I	I	I		9
8	I	I	I	2		I	I	3	I		11
9	I	3	I	I		I	I	I	0		9
10	I	I	I	I		0	I	I	0		6
11	I	I	I	I		0	I	I	I		7
12	I	I	I	2		2	2	2	2		13
13	5	4	3	2		I	I	I	3		20
14	4	6	6	4		3	3	3	2		31
15	6	6	3	2		3	3	3	3		29
16	3	3	I	3		2	3	5	3		23
17	3	3	2	I		2	I	2	4		18
18	5	3	5	4		6	6	6	6		41
19	4	3	4	3		4	4	5	3		30
20	5	3	3	3		3	5	5	4		31
21	3	3	4	2		2	2	2	2		20
22	4	4	3	3		3	3	3	3		26
23	3	2	2	I		2	2	3	I		16
24	I	2	2	2		2	2	2	I		14
25	3	3	3	2		4	5	2	2		24
26	3	2	3	3		2	I	3	I		18
27	6	5	4	2		2	3	3	2		27
28	2	2	2	I		2	5	5	3		22
29	2	3	2	3		2	6	5	4		27
30	7	6	5	3		3	3	4	7		38
31	6	4	3	3		2	3	3	3		27