

INDICES OF GEOMAGNETIC ACTIVITY  
OBSERVATORY. *Caliningrad*  
MONTH. *September* 19 *77*

IN Y/MM

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

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61949-111

INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS

INTERNATIONAL ASSOCIATION OF GEOMAGNETISM AND AERONOMY

INDICES OF GEOMAGNETIC ACTIVITY

OBSERVATORY *Caliningrad*  
MONTH *October* 19 *77*

SCALE-VALUES OF VARIOMETERS

IN Y/MM

RANGE FOR K=9..... Y

D.....

H.....

Z.....

| GR  | K- INDICES FOR THREE-HOUR INTERVAL   |                                      |                                      |                                      |  |                                      |                                      |                                      |                                      | SUM |
|-----|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|-----|
| DAY | 00 <sup>h</sup> -<br>03 <sup>h</sup> | 03 <sup>h</sup> -<br>06 <sup>h</sup> | 06 <sup>h</sup> -<br>09 <sup>h</sup> | 09 <sup>h</sup> -<br>12 <sup>h</sup> |  | 12 <sup>h</sup> -<br>15 <sup>h</sup> | 15 <sup>h</sup> -<br>18 <sup>h</sup> | 18 <sup>h</sup> -<br>21 <sup>h</sup> | 21 <sup>h</sup> -<br>24 <sup>h</sup> |     |
| 1   | 2                                    | I                                    | 2                                    | 3                                    |  | 2                                    | I                                    | I                                    | I                                    | I3  |
| 2   | 2                                    | I                                    | I                                    | 3                                    |  | 2                                    | 2                                    | 2                                    | 5                                    | I8  |
| 3   | I                                    | I                                    | 3                                    | 3                                    |  | 4                                    | 3                                    | 2                                    | I                                    | I8  |
| 4   | 3                                    | 3                                    | 3                                    | 3                                    |  | 3                                    | I                                    | 2                                    | 2                                    | 20  |
| 5   | 2                                    | I                                    | I                                    | 3                                    |  | 2                                    | 3                                    | 2                                    | I                                    | I5  |
| 6   | 2                                    | I                                    | 3                                    | 2                                    |  | 2                                    | 3                                    | I                                    | 2                                    | I6  |
| 7   | 2                                    | I                                    | 2                                    | 2                                    |  | I                                    | I                                    | I                                    | I                                    | I0  |
| 8   | I                                    | I                                    | 2                                    | 2                                    |  |                                      |                                      |                                      |                                      | 6   |
| 9   |                                      |                                      |                                      |                                      |  | 2                                    | I                                    | I                                    | 2                                    | 6   |
| 10  | I                                    | I                                    | 3                                    | 2                                    |  | 2                                    | I                                    | 2                                    | 3                                    | I5  |
| 11  | 2                                    | I                                    | 2                                    | 2                                    |  | 2                                    | 2                                    | 3                                    | 5                                    | I9  |
| 12  | 4                                    | 4                                    | 3                                    | 4                                    |  | 4                                    | 4                                    | 3                                    | 2                                    | 28  |
| 13  | 2                                    | 3                                    | 2                                    | 3                                    |  | 4                                    | 2                                    | 3                                    | 3                                    | 22  |
| 14  | 2                                    | I                                    | 2                                    | 3                                    |  | 3                                    | 2                                    | 3                                    | 5                                    | 2I  |
| 15  | 4                                    | 2                                    | 4                                    | 3                                    |  | 2                                    | 2                                    | 4                                    | 4                                    | 25  |
| 16  | 3                                    | 2                                    | I                                    | 2                                    |  | 3                                    | 2                                    | 2                                    | 3                                    | I8  |
| 17  | 2                                    | 2                                    | 2                                    | 3                                    |  | 3                                    | 4                                    | 3                                    | 4                                    | 23  |
| 18  | 3                                    | 3                                    | 3                                    | 2                                    |  | 3                                    | 3                                    | 5                                    | 5                                    | 27  |
| 19  | 5                                    | 3                                    | 4                                    | 3                                    |  | 3                                    | 4                                    | 3                                    | I                                    | 26  |
| 20  | I                                    | 2                                    | 3                                    | 3                                    |  | 2                                    | 3                                    | 2                                    | 3                                    | I9  |
| 21  | 2                                    | I                                    | 3                                    | 2                                    |  | 2                                    | 3                                    | 2                                    | 3                                    | I8  |
| 22  | 3                                    | 4                                    | 3                                    | 2                                    |  | 3                                    | 4                                    | 3                                    | 4                                    | 26  |
| 23  | 3                                    | 2                                    | 2                                    | 2                                    |  | 2                                    | I                                    | 3                                    | 3                                    | I8  |
| 24  | 3                                    | 2                                    | 2                                    | 2                                    |  | 2                                    | I                                    | I                                    | 3                                    | I6  |
| 25  | 3                                    | 2                                    | 2                                    | 2                                    |  | I                                    | 2                                    | 2                                    | 3                                    | I7  |
| 26  | I                                    | 2                                    | 2                                    | 2                                    |  | I                                    | I                                    | 7                                    | 7                                    | 23  |
| 27  | 9                                    | 3                                    | 4                                    | 5                                    |  | 5                                    | 4                                    | 6                                    | 6                                    | 42  |
| 28  | 6                                    | 5                                    | 5                                    | 2                                    |  | 3                                    | 4                                    | 4                                    | I                                    | 30  |
| 29  | 3                                    | 2                                    | 3                                    | 3                                    |  | 3                                    | 3                                    | 2                                    | I                                    | 20  |
| 30  |                                      |                                      |                                      | 2                                    |  | 2                                    | 5                                    | 2                                    | I                                    | I2  |
| 31  | 2                                    | 3                                    | 3                                    | I                                    |  | 2                                    | I                                    | 2                                    | I                                    | I5  |

INDICES OF GEOMAGNETIC ACTIVITY

OBSERVATORY *Kaliningrad*

MONTH *November* 19 *77*

MONTH. November 71

IN Y/MM

RANGE FOR K=9 ..... Y

D.....

H.....

**z.....**

[illegible]

## INDICES OF GEOMAGNETIC ACTIVITY

OBSERVATORY *Coliningrad*  
MONTH *December 77*

SCALE-VALUES OF VARIOMETERS

IN Y/MM

RANGE FOR K=9..... Y

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

| GR  | K- INDICES FOR THREE-HOUR INTERVAL   |                                      |                                      |                                      |  |                                      |                                      |                                      |                                      |     |
|-----|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|-----|
| DAY | 00 <sup>h</sup> -<br>03 <sup>h</sup> | 03 <sup>h</sup> -<br>06 <sup>h</sup> | 06 <sup>h</sup> -<br>09 <sup>h</sup> | 09 <sup>h</sup> -<br>12 <sup>h</sup> |  | 12 <sup>h</sup> -<br>15 <sup>h</sup> | 15 <sup>h</sup> -<br>18 <sup>h</sup> | 18 <sup>h</sup> -<br>21 <sup>h</sup> | 21 <sup>h</sup> -<br>24 <sup>h</sup> | SUM |
| 1   | I                                    | I                                    | I                                    | 2                                    |  | I                                    | 2                                    | 4                                    | 3                                    | I5  |
| 2   | 5                                    | 6                                    | 4                                    | 3                                    |  | 4                                    | 7                                    | 6                                    | 5                                    | 40  |
| 3   | 3                                    | 2                                    | 2                                    | 2                                    |  | 3                                    | I                                    | 3                                    | 2                                    | I8  |
| 4   | I                                    | 2                                    | I                                    | I                                    |  | 2                                    | 3                                    | 4                                    | 4                                    | I8  |
| 5   | 4                                    | 4                                    | 3                                    | 2                                    |  | 2                                    | 2                                    | 2                                    | 3                                    | 22  |
| 6   | 3                                    | 2                                    | 2                                    | 2                                    |  | I                                    | 2                                    | I                                    | I                                    | I4  |
| 7   | I                                    | I                                    | I                                    | 2                                    |  | I                                    | 2                                    | 2                                    | 3                                    | I3  |
| 8   | I                                    | I                                    | 2                                    | 2                                    |  | I                                    | 2                                    | I                                    | I                                    | II  |
| 9   | I                                    | I                                    | 2                                    | I                                    |  | I                                    | I                                    | I                                    | I                                    | 9   |
| 10  | I                                    | I                                    | I                                    | 2                                    |  | I                                    | I                                    | 3                                    | 3                                    | I3  |
| 11  | 4                                    | 4                                    | 3                                    | 4                                    |  | 5                                    | 4                                    | 4                                    | 4                                    | 32  |
| 12  | 4                                    | 7                                    | I                                    | 7                                    |  | 2                                    | 2                                    | 3                                    | 7                                    | 33  |
| 13  | 4                                    | 3                                    | 2                                    | 2                                    |  | 3                                    | 4                                    | 4                                    | 2                                    | 24  |
| 14  | 2                                    | 2                                    | I                                    | I                                    |  | 2                                    | 3                                    | 2                                    | I                                    | I4  |
| 15  | I                                    | I                                    | 2                                    | 2                                    |  | 3                                    | I                                    | I                                    | I                                    | I2  |
| 16  | I                                    | I                                    | I                                    | I                                    |  | 2                                    | 4                                    | 3                                    | 4                                    | I7  |
| 17  | 3                                    | 4                                    | I                                    | 3                                    |  | I                                    | I                                    | 2                                    | I                                    | I6  |
| 18  | I                                    | I                                    | I                                    | 2                                    |  | I                                    | 2                                    | I                                    | I                                    | I0  |
| 19  | I                                    | I                                    | I                                    | 2                                    |  | I                                    | 2                                    | I                                    | I                                    | I0  |
| 20  | I                                    | 2                                    | I                                    | 2                                    |  | 2                                    | I                                    | 2                                    | I                                    | I2  |
| 21  | I                                    | I                                    | I                                    | I                                    |  | 2                                    | 2                                    | 3                                    | 3                                    | I4  |
| 22  | 3                                    | 2                                    | I                                    | I                                    |  | I                                    | I                                    | I                                    | 2                                    | I2  |
| 23  | I                                    | 2                                    | I                                    | 2                                    |  | 2                                    | I                                    | I                                    | 2                                    | I2  |
| 24  | 2                                    | 2                                    | I                                    | 2                                    |  | I                                    | I                                    | I                                    | I                                    | II  |
| 25  | I                                    | I                                    | I                                    | 3                                    |  | 2                                    | 2                                    | 3                                    | 2                                    | I5  |
| 26  | 3                                    | 3                                    | I                                    | 3                                    |  | 2                                    | 2                                    | 3                                    | 3                                    | 20  |
| 27  | 3                                    | 2                                    | I                                    | I                                    |  | 3                                    | 2                                    | I                                    | I                                    | I4  |
| 28  | 2                                    | I                                    | I                                    | 2                                    |  | 2                                    | 2                                    | 4                                    | 4                                    | I8  |
| 29  | 3                                    | 2                                    | I                                    | 2                                    |  | 2                                    | 2                                    | I                                    | 3                                    | I6  |
| 30  | 2                                    | 2                                    | I                                    | 2                                    |  | 2                                    | I                                    | 2                                    | 3                                    | I5  |
| 31  | I                                    | I                                    | I                                    | 2                                    |  | 2                                    | I                                    | 2                                    | 3                                    | I3  |