**DESCRIPTION**

**of files of identification of solar wind types YYYYswgr.txt**

The directory ftp://ftp.iki.rssi.ru/pub/omni/catalog has 41 directories YYYY, where YYYY is year number from 1976 to 2016 and this file.

Each directory has 15 files: 1 data file YYYYswgr.txt with result of identification of solar wind types and 14 files YYYYMMDDc.JGR with visualization of data of YYYYswgr.txt file

YYYYswgr.txt file has 23 columns with following structure:

1 – year

2 – day of year (from 1 to 365 (366) days)

3 – hour (from 0 to 23)

4 – 0 if SW is HCS (heliospheric current sheet) with high reliability of identification, 10 if another case

5 – 0 if SW is HCS (heliospheric current sheet) with medium reliability of identification, 10 if another case

6 – 1 if SW is SLOW (slow SW stream) with high reliability of identification, 10 if another case

7 – – 1 if SW is SLOW (slow SW stream) with medium reliability of identification, 10 if another case

8 – 2 if SW is FAST (fast SW stream) with high reliability of identification, 10 if another case

9 – 2 if SW is FAST (fast SW stream) with medium reliability of identification, 10 if another case

10 – 3 if SW is CIR (corotating interaction region) with high reliability of identification, 10 if another case

11 – 3 if SW is CIR (corotating interaction region) with medium reliability of identification, 10 if another case

12 – 4 if SW is EJECTA (non-MC ICME) with high reliability of identification, 10 if another case

13 – 4 if SW is EJECTA (non-MC ICME) with medium reliability of identification, 10 if another case

14 – 5 if SW is MC (magnetic cloud) with high reliability of identification, 10 if another case

15 – 5 if SW is MC (magnetic cloud) with medium reliability of identification, 10 if another case

16 – 6 if SW is SHEATH (compression region before fast ICME – EJECTA or MC) with high reliability of identification, 10 if another case

17 – 6 if SW is SHEATH (compression region before fast ICME – EJECTA or MC) with medium reliability of identification, 10 if another case

18 – 7 if SW is IS (forward interplanetary shock) with high reliability of identification, 10 if another case

19 – 7 if SW is IS (forward interplanetary shock) with medium reliability of identification, 10 if another case

20 – 8 if SW is ISa (reverse interplanetary shock) with high reliability of identification, 10 if another case

21 – 8 if SW is ISa (forward interplanetary shock) with medium reliability of identification, 10 if another case

22 – 9 if SW is RARE (rarefied plasma) with high reliability of identification, 10 if another case

23 – 9 if SW is RARE (rarefied plasma) with medium reliability of identification, 10 if another case