

2. Legend

Shortcuts: BEG - Group of observations compiled by P. Begeni
 KYS - Group of observations observed by Observatory Kysucke Nove Mesto
 Fmt - Format: *In* - Number; *n* - number of digits; IX - Blank - space
An - String; *n* - number of characters

<u>Column</u>	<u>Fmt</u>	<u>Description</u>
1- 5	I5	ID - Internal number of observation ID up to 10000 related to BEG group (see above for shortcuts meaning) ID from 10000 to 20000 - KYS group ID from 80000 to 90000 - BEG group - observations without visible sunspots ID over 90000 - KYS group - observations without visible sunspots
6	IX	Blank
7	I1	Sequence number of sunspot within one observation (0 - without visible sunspots)
8	IX	Blank
9-12	I4	Year
13-14	I2	Month
15-16	I2	Day
17-20	I4	Universal time of observation
21	IX	Blank
22	I1	Observing conditions from 1 to 5: 1 - good observing conditions - clear sky ... 5 - bad observing conditions - lot of clouds
23	IX	Blank
24-25	A2	Location - code - see below for geographic coordinates
26-27	A2	Observer - code - see below for details
28	A1	Using filter (Y/N)
29	IX	Blank
30	I1	Number of sunspots (0 - without visible sunspots)
31	IX	Blank
32	I1	Size of sunspot: 1 - small sunspot 2 - middle sunspot 3 - large sunspots 4 - specific shape (ellipse, belt, etc.) - only for ID<10000 (BEG group)
33	IX	Blank
34-36	I3	Position of sunspot - x-coordinate - oriented to zenith 0 - centre of sun disk, 25 - edge of sun disk positive number for west direction (right) negative number for east direction (left)
37	IX	Blank
38-40	I3	Position of sunspot - y-coordinate - oriented to zenith 0 - centre of sun disk, 25 - edge of sun disk positive number for zenith direction (up) negative number for nadir (horizon) direction (down)
41	IX	Blank
42-43	A2	Description of shape: el - elliptical sunspot db - double sunspot eg - elongated sunspot be - sunspot as belt ir - irregular shape of sunspot
44	IX	Blank
45-48	I4	Internal sequence number of sunspot - only for ID>10000(KYS)

Locations:

<u>Shortcuts</u>	<u>Fmt</u>	<u>Description</u>
CO	A2	Code of location
NAME	A30	Location name
COUNTRY	A8	Country (Slovakia - Slovak Republic, Czech - Czech Republic)
LATITUDE	A9	Geographic coordinates - Latitude
LONGITUDE	A9	Geographic coordinates - Longitude
ELEV	I4	Elevation above sea-level

<u>CO</u>	<u>NAME</u>	<u>COUNTRY</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>	<u>ELEV</u>
Bb	Banska Bystrica	Slovakia	48°44.0'N	19°09.0'E	362
Bd	Brandys n.Labem-Stara Boleslav	Czech	50°11.4'N	14°40.0'E	169
Bi	Bitov	Czech	48°56.1'N	15°43.2'E	428
Bn	Brno	Czech	49°12.2'N	16°35.0'E	305
Bo	Borovany	Czech	48°53.9'N	14°38.5'E	522
Bp	Brodek u Prerova	Czech	49°29.0'N	17°20.4'E	205
Br	Brocna, Skuhrov nad Belou	Czech	50°14.0'N	16°15.0'E	379
By	Bystrice nad Olsi	Czech	49°38.1'N	18°43.8'E	340
Ch	Chotusice	Czech	49°56.9'N	15°23.5'E	224
Ck	Cerveny Kostelec	Czech	50°28.6'N	16°05.1'E	414
Cm	Chomoutov	Czech	49°38.7'N	17°14.0'E	219
Cs	Caslav	Czech	49°54.7'N	15°23.7'E	231
Dc	Decin	Czech	50°46.4'N	14°11.8'E	135
Dr	Drna	Slovakia	48°15.9'N	20°07.1'E	198
Ev	Evan	Czech	50°22.7'N	14°01.4'E	286
Hb	Hlubocky	Czech	49°38.4'N	17°24.9'E	382
Hl	Hlohovec	Slovakia	48°25.2'N	17°47.9'E	231
Hr	Hradec Kralove	Czech	50°12.7'N	15°50.7'E	223
Hs	Hostakov	Czech	49°13.9'N	15°58.3'E	450
Iv	Ivan	Czech	49°25.5'N	17°14.7'E	208
Jc	Jicin	Czech	50°26.2'N	15°21.1'E	287
Je	Jelsava	Slovakia	48°37.5'N	20°14.4'E	318
Jh	Jihlava	Czech	49°24.0'N	15°35.4'E	525
Jr	Jiretin pod Jedlovou	Czech	50°52.5'N	14°34.4'E	458
Km	Kysucke Nove Mesto	Slovakia	49°18.5'N	18°46.0'E	430
Lb	Lubina	Slovakia	48°47.4'N	17°44.0'E	277
Ls	Losov	Czech	49°37.0'N	17°21.0'E	219
Md	Medlov	Czech	49°47.2'N	17°03.9'E	286
Mi	Michalovce	Slovakia	48°45.5'N	21°55.4'E	113
Mk	Mikulov	Czech	48°48.3'N	16°38.3'E	242
Ml	Medzilaborce	Slovakia	49°16.3'N	21°54.2'E	325
Na	Nachod	Czech	50°25.0'N	16°09.8'E	346
Nh	Nove Hradky	Czech	48°47.4'N	14°46.7'E	541
Ni	Nitra	Slovakia	48°18.4'N	18°05.2'E	151
Np	Napajedla	Czech	49°10.3'N	17°31.0'E	200
Nz	Nove Zamky	Slovakia	47°59.1'N	18°09.5'E	119
Ol	Olomouc	Czech	49°35.6'N	17°15.0'E	219
Op	Opava	Czech	49°56.0'N	17°54.0'E	257
Pa	Pardubice	Czech	50°02.3'N	15°46.8'E	237
Pl	Pilsen	Czech	49°44.9'N	13°22.5'E	300
Pm	Police nad Metuji	Czech	50°32.0'N	16°13.9'E	441
Po	Polna	Czech	49°29.3'N	15°43.0'E	490
Pr	Prelovice	Czech	50°04.4'N	15°36.8'E	220
Ps	Presov	Slovakia	49°00.0'N	21°15.0'E	255
Pt	Prostejov	Czech	49°28.1'N	17°06.0'E	223
Ra	Rakova	Slovakia	49°26.6'N	18°44.2'E	428
Ro	Roztoky	Slovakia	49°22.8'N	21°30.0'E	437
Rs	Rimavska Sobota	Slovakia	48°22.9'N	20°00.9'E	208
Sa	Sany	Czech	50°07.1'N	15°15.0'E	196
Sr	Sternberk	Czech	49°43.6'N	17°17.7'E	268

Ss Stary Smokovec	Slovakia	49°08.4'N	20°13.4'E	990
St Starkov	Czech	50°31.9'N	16°09.0'E	441
Sv Svidnik	Slovakia	49°18.3'N	21°34.1'E	230
Sz Sazavka	Czech	49°44.1'N	15°25.2'E	497
Te Teplice	Czech	50°38.0'N	13°49.0'E	228
Tl Tatranska Lomnica	Slovakia	49°10.8'N	20°14.5'E	850
Tn Trutnov	Czech	50°33.6'N	15°54.8'E	414
To Tover	Czech	49°38.3'N	17°19.3'E	247
Tr Trinec	Czech	49°40.7'N	18°40.4'E	306
Uk Ulicske Krive	Slovakia	48°59.5'N	22°26.3'E	279
Up Upice	Czech	50°30.5'N	16°00.7'E	416
Vk Velky Krtis	Slovakia	48°12.9'N	19°20.3'E	200
Vm Valasske Mezirici	Czech	49°28.6'N	17°58.4'E	294
Vp Valasska Polanka	Czech	49°15.8'N	17°59.8'E	388
Vs Vsetin	Czech	49°20.3'N	17°59.6'E	348
Vy Vyskov	Czech	49°16.2'N	16°59.6'E	254
Zh Ziar nad Hronom	Slovakia	48°35.1'N	18°51.6'E	265
Zi Zilina	Slovakia	49°13.4'N	18°44.4'E	342
Zv Zvolen	Slovakia	48°35.0'N	19°08.0'E	293

Observers:

<u>Shortcuts</u>	<u>Fmt</u>	<u>Description</u>
CO	A2	Code of observer
NAME	A30	Location name
COUNTRY	A8	Country (Slovakia - Slovak Republic, Czech - Czech Republic)

<u>CO</u>	<u>NAME</u>	<u>COUNTRY</u>
Be	Bezakova Magda	Slovakia
Bg	Begeni Peter	Slovakia
Br	Brezina Emil	Czech
Bu	Bulickova Lucie	Czech
Ce	Cervenak Alan	Czech
Dl	Dlouha Marketa	Czech
Do	Doslikova Martina	Czech
Ds	Dusek Jiri	Czech
Du	Durech Jozef	Czech
Dv	DV	Slovakia
Fa	Fabian Peter	Slovakia
Gm	Golombek	Czech
Gn	Gondor Andrej	Slovakia
Ha	Halirova Michaela	Czech
Hd	Hudec Jaroslav	Czech
Hl	Hlous Petr	Czech
Ho	Horky Jan	Czech
Jp	Pieronova Jana	Slovakia
Ju	Jurcikova Mirka	Czech
Ka	Kasparova Jana	Czech
Ki	Kijasev Viktor	Slovakia
Kk	Koukala Petr	Czech
Kn	Konecny Jiri	Czech
Kr	Korcakova Daniela	Czech
Kt	Krticka Jiri	Czech
Kv	Vlckova Kristina	Slovakia
Lo	Lovic Stanislav	Slovakia
Lu	Luptovec Marian	Slovakia
Ma	Masiar Jan	Slovakia
Mc	Mackova Marcela	Czech
Mk	MK	Slovakia
Ms	Masnicak Jozef	Czech
Mt	Matejka Pavel	Czech

Nd Nedved Tomas	Czech
Nj Nejeschleba Tomas	Czech
Pz Pozar Marian	Slovakia
Rn Reznicek Miroslav	Czech
Rt Rathousky Jiri	Czech
Rz Rezek Tomas	Czech
Ss Sesevickova Lubomira	Slovakia
St Szturc Richard	Czech
Vc Vaclik Frantisek	Czech
Vl Vlckova Daniela	Slovakia
Vn Vanko Martin	Slovakia
We Werner Tomas	Czech
OT Others 14 observers unidentified observers	Czech or Slovakia - a few observations or unidentified observers