

*Georgi Dobrovolski
Solar Observatory*

*Sunspot Co-ordinates
and
Classifications*

2006

CONTENTS:

JANUARY	2
FEBRUARY	3
MARCH	4
APRIL	5-6
MAY	7
JUNE	8
JULY	9
AUGUST	10
SEPTEMBER	11
OCTOBER	12
NOVEMBER	13
DECEMBER	14



Georgi Dobrovolski Solar Observatory

REGION CO-ORDINATES AND CLASSIFICATIONS FOR

JANUARY 2006

All observations carried out by HOWARD BARNES .

Telescope : 76 mm refractor (f . l . 910 mm) .

Observed by PROJECTION . Full disc diameter = 145 mm approx .

CM is stated in degrees .

Region Numbers are NOAA/SEC Numbers .

B = Heliographic Latitude (+ if NORTH , - if SOUTH) .

CMD = Degrees of Longitude in respect to the Central Meridian (- if EAST , + if WEST) .

L = Carrington Longitude .

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grp	grf	efp	ef	Class.	Remarks
4619	2006 / 01 / 01	2020	225.1	0843	+11	+09	234	4	2	1	1	3	1	0	0	DAI	—
				0841	+12	+28	253	2	1	0	1	2	0	0	0	HAX	—
				0840	-03	+37	262	1	1	0	0	0	0	1	0	HSX	—
4620	2006 / 01 / 05	1950	172.7	0843	+12	+61	234	1	0	1	0	0	0	0	1	AXX	big
4621	2006 / 01 / 07	1925	146.6	0845	+19	-59	088	1	1	0	0	0	0	1	0	HSX	—
4622	2006 / 01 / 08	1940	133.3	0845	+19	-47	086	1	1	0	0	0	0	1	0	HSX	—
4623	2006 / 01 / 09	1935	120.2	0845	+19	-34	086	1	1	0	0	0	0	1	0	HSX	—
4624	2006 / 01 / 10	1950	106.9	0845	+19	-20	087	1	1	0	0	0	0	1	0	HSX	—
4625	2006 / 01 / 12	2000	80.5	—	—	—	—	0	0	0	0	0	0	0	0	—	—
4626	2006 / 01 / 15	2000	41.0	0847	-09	+05	046	4	3	0	1	4	0	0	0	DAC	—
				0846	+05	+27	068	7	3	3	1	4	3	0	0	DAC	—
4627	2006 / 01 / 16	2015	27.6	0847	-08	+18	046	10	3	2	1	8	2	0	0	DAC	—
				0846	+06	+41	069	6	3	1	1	5	1	0	0	DAC	—
4628	2006 / 01 / 19	1945	348.4	0848	-19	-27	321	11	2	5	1	6	5	0	0	DAI	long
4629	2006 / 01 / 20	2010	335.0	0848	-19	-14	321	12	3	4	1	8	4	0	0	DAC	long
4630	2006 / 01 / 26	1955	256.2	0848	-20	+63	319	5	3	2	1	3	2	0	0	ESC	short & small
4631	2006 / 01 / 27	2140	242.0	0848	-20	+75	317	2	2	0	1	2	0	0	0	DSO	small



Georgi Dobrovolski Solar Observatory

REGION CO-ORDINATES AND CLASSIFICATIONS FOR FEBRUARY 2006

All observations carried out by HOWARD BARNES .
 Telescope : 76 mm refractor (f . l . 910 mm) .
 Observed by PROJECTION . Full disc diameter = 145 mm approx .
 CM is stated in degrees .
 Region Numbers are NOAA/SEC Numbers .
 B = Heliographic Latitude (+ if NORTH , - if SOUTH) .
 CMD = Degrees of Longitude in respect to the Central Meridian (- if EAST , + if WEST) .
 L = Carrington Longitude .

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grp	grf	efp	ef	Class.	Remarks
4632	2006 / 02 / 02	1925	164.3	—	—	—	—	0	0	0	0	0	0	0	0	—	—
4633	2006 / 02 / 03	1945	150.9	—	—	—	—	0	0	0	0	0	0	0	0	—	—
4634	2006 / 02 / 05	2010	124.4	—	—	—	—	0	0	0	0	0	0	0	0	—	—
4635	2006 / 02 / 06	1950	111.4	—	—	—	—	0	0	0	0	0	0	0	0	—	—
4636	2006 / 02 / 07	2105	97.5	0852	-10	-11	087	1	0	1	0	0	0	0	1	AXX	very small
4637	2006 / 02 / 08	1940	85.1	0852	-11	+02	087	1	1	0	0	0	0	1	0	HSX	—
				0853	-11	+34	119	1	1	0	0	0	0	1	0	HSX	—
4638	2006 / 02 / 11	2000	45.5	—	—	—	—	0	0	0	0	0	0	0	0	—	—
4639	2006 / 02 / 13	1935	19.3	0854	-09	-54	325	1	0	1	0	0	0	0	1	AXX	—
4640	2006 / 02 / 15	2100	352.2	0855	+06	-43	309	1	0	1	0	0	0	0	1	AXX	—
				0854	-07	-25	327	2	2	0	1	2	0	0	0	DSO	—
4641	2006 / 02 / 17	2145	325.5	—	—	—	—	0	0	0	0	0	0	0	0	—	—
4642	2006 / 02 / 20	2015	286.8	—	—	—	—	0	0	0	0	0	0	0	0	—	—
4643	2006 / 02 / 21	2005	273.7	—	—	—	—	0	0	0	0	0	0	0	0	—	—
4644	2006 / 02 / 23	2015	247.3	—	—	—	—	0	0	0	0	0	0	0	0	—	—
4645	2006 / 02 / 27	2245	193.2	0856	-08	-70	123	1	0	1	0	0	0	0	1	AXX	—
4646	2006 / 02 / 28	2020	181.4	—	—	—	—	0	0	0	0	0	0	0	0	—	—

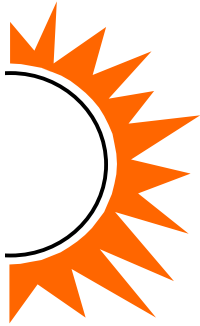


Georgi Dobrovolski Solar Observatory

REGION CO-ORDINATES AND CLASSIFICATIONS FOR MARCH 2006

All observations carried out by HOWARD BARNES .
 Telescope : 76 mm refractor (f . l . 910 mm) .
 Observed by PROJECTION . Full disc diameter = 145 mm approx .
 CM is stated in degrees .
 Region Numbers are NOAA/SEC Numbers .
 B = Heliographic Latitude (+ if NORTH , - if SOUTH) .
 CMD = Degrees of Longitude in respect to the Central Meridian (- if EAST , + if WEST) .
 L = Carrington Longitude .

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grp	grf	efp	ef	Class.	Remarks
4647	2006 / 03 / 03	2020	141.9	—	—	—	—	0	0	0	0	0	0	0	0	—	—
4648	2006 / 03 / 04	2020	128.7	0857	+08	-57	072	2	0	2	1	0	2	0	0	BXO	—
4649	2006 / 03 / 05	2040	115.3	—	—	—	—	0	0	0	0	0	0	0	0	—	—
4650	2006 / 03 / 09	2100	62.4	—	—	—	—	0	0	0	0	0	0	0	0	—	—
4651	2006 / 03 / 12	2110	22.8	0858	+18	-18	005	5	1	4	1	1	4	0	0	CSI	—
4652	2006 / 03 / 13	2100	9.7	0860	-03	-66	304	1	0	1	0	0	0	0	1	AXX	—
				0858	+18	-02	008	1	1	0	0	0	0	1	0	HSX	small
4653	2006 / 03 / 14	2055	356.6	0860	-03	-53	304	1	0	1	0	0	0	0	1	AXX	—
4654	2006 / 03 / 15	2050	343.5	0860	-03	-39	304	1	0	1	0	0	0	0	1	AXX	big
4655	2006 / 03 / 21	2050	264.4	0862	-07	+37	301	16	5	7	1	9	7	0	0	EAC	small
4656	2006 / 03 / 28	2050	172.1	0866	-06	-84	088	1	1	0	0	0	0	1	0	HSX	—
				0865	-13	-62	110	5	2	1	1	4	1	0	0	DAI	—
4657	2006 / 03 / 29	2230	158.0	0866	-06	-70	088	1	1	0	0	0	0	1	0	HSX	—
				0865	-12	-49	109	9	4	3	1	6	3	0	0	DAC	—
4658	2006 / 03 / 31	2230	131.6	0866	-07	-44	088	1	1	0	0	0	0	1	0	HSX	—
				0865	-13	-22	110	12	4	6	1	6	6	0	0	ESC	short. big primary penumbra



Georgi Dobrovolski Solar Observatory

REGION CO-ORDINATES AND CLASSIFICATIONS FOR

APRIL 2006

All observations carried out by HOWARD BARNES .

Telescope : 76 mm refractor (f . l . 910 mm) .

Observed by PROJECTION . Full disc diameter = 145 mm approx .

CM is stated in degrees .

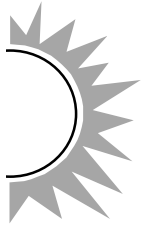
Region Numbers are NOAA/SEC Numbers .

B = Heliographic Latitude (+ if NORTH , - if SOUTH) .

CMD = Degrees of Longitude in respect to the Central Meridian (- if EAST , + if WEST) .

L = Carrington Longitude .

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grp	grf	efp	ef	Class.	Remarks
4659	2006 / 04 / 02	2120	105.8	0867	-16	-18	088	11	3	4	1	7	4	0	0	DAC	—
				0866	-06	-18	088	2	1	0	1	2	0	0	0	HAX	big
				0865	-11	+04	110	15	4	7	1	8	7	0	0	EKC	—
4660	2006 / 04 / 08	2145	26.4	0871	-08	-80	306	1	1	0	0	0	0	1	0	HSX	—
				0869	-12	+03	029	9	2	5	1	4	5	0	0	DAI	—
				0866	-06	+62	088	5	2	2	1	3	2	0	0	DAI	—
				0867	-16	+66	092	1	1	0	0	0	0	1	0	HSX	—
4661	2006 / 04 / 11	2130	347.0	0872	-09	-76	271	1	0	1	0	0	0	0	1	AXX	—
				0873	-04	-50	297	8	2	3	1	5	3	0	0	DAI	—
				0871	-08	-41	306	1	1	0	0	0	0	1	0	HSX	—
				0870	-08	-11	336	1	1	0	0	0	0	1	0	HSX	small
				0869	-12	+42	029	1	1	0	0	0	0	1	0	HSX	—
4662	2006 / 04 / 13	2155	320.3	0872	-07	-47	273	1	1	0	0	0	0	1	0	HSX	—
				0873	-04	-23	297	4	1	3	1	1	3	0	0	CSI	—
				0871	-07	-09	311	1	1	0	0	0	0	1	0	HSX	—
				0869	-09	+75	035	1	1	0	0	0	0	1	0	HSX	—
4663	2006 / 04 / 14	2205	307.0	0872	-07	-34	273	1	1	0	0	0	0	1	0	HSX	—
				0873	-03	-09	298	2	1	1	1	1	1	0	0	CSO	small
				0871	-07	+03	310	2	1	1	1	1	1	0	0	CSO	—
4664	2006 / 04 / 16	2140	280.9	0871	-06	+31	312	1	1	0	0	0	0	1	0	HSX	—
4665	2006 / 04 / 19	2205	241.0	—	—	—	—	0	0	0	0	0	0	0	0	—	—
4666	2006 / 04 / 20	2245	227.4	0874	-01	+11	238	5	2	2	1	3	2	0	0	DAI	—
4667	2006 / 04 / 25	2200	161.8	0876	-16	-70	092	3	2	0	1	3	0	0	0	EAO	short
				0877	-07	-66	096	1	0	1	0	0	0	0	1	AXX	big
				0875	-10	-47	115	11	2	2	1	9	2	0	0	DKI	—

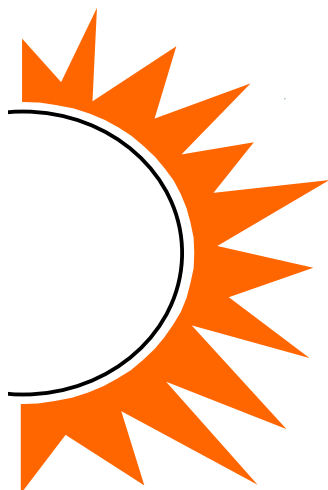


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REGION CO-ORDINATES AND CLASSIFICATIONS FOR

APRIL 2006 continued.

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks	
4668	2006/04/26	2205	148.5	0876	-16	-58	091	5	2	0	1	5	0	0	0	EAO	—	
				0877	-07	-53	096	1	0	1	0	0	0	0	0	1	AXX	big
				0875	-10	-35	114	14	3	5	1	9	5	0	0	0	DKC	—
4669	2006/04/29	2155	109.0	?	+11	-30	079	2	0	2	1	0	2	0	0	BXO	—	
				0876	-14	-19	090	9	2	5	1	4	5	0	0	0	EAI	—
				0875	-09	+06	115	16	3	8	1	8	8	0	0	0	DKC	—
4670	2006/04/30	2205	95.7	0878	+14	-61	035	1	1	0	0	0	0	1	0	HSX	—	
				0876	-11	-09	087	6	2	2	1	4	2	0	0	0	DAI	long
				0875	-08	+20	116	12	3	5	1	7	5	0	0	0	DAC	—

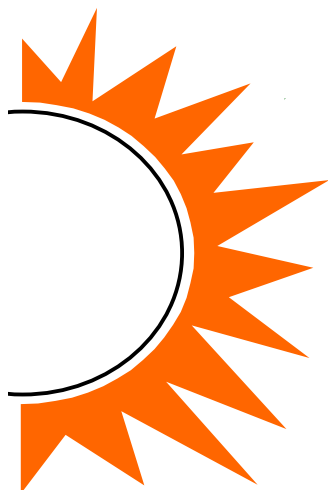


Georgi Dobrovolski Solar Observatory

REGION CO-ORDINATES AND CLASSIFICATIONS FOR MAY 2006

All observations carried out by HOWARD BARNES .
 Telescope : 76 mm refractor (f . l . 910 mm) .
 Observed by PROJECTION . Full disc diameter = 145 mm approx .
 CM is stated in degrees .
 Region Numbers are NOAA/SEC Numbers .
 B = Heliographic Latitude (+ if NORTH , - if SOUTH) .
 CMD = Degrees of Longitude in respect to the Central Meridian (- if EAST , + if WEST) .
 L = Carrington Longitude .

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grp	grf	efp	ef	Class.	Remarks	
4671	2006 / 05 / 03	2235	55.8	0880	-08	-78	338	1	1	0	0	0	0	1	0	HSX	—	
				0878	+14	-19	037	1	1	0	0	0	0	0	1	0	HSX	—
				0879	+17	+04	060	6	2	1	1	5	1	0	0	0	DAI	—
				0875	-12	+59	115	2	1	0	1	2	0	0	0	0	HAX	—
4672	2006 / 05 / 06	2220	16.2	0881	-12	-69	307	3	1	2	1	1	2	0	0	CSI	small	
				0880	-08	-38	338	1	1	0	0	0	0	1	0	HSX	—	
				0882	-12	+18	034	3	1	2	1	1	2	0	0	CSI	—	
				0879	+16	+46	062	1	0	1	0	0	0	0	0	1	AXX	—
4673	2006 / 05 / 15	2205	257.4	—	—	—	—	0	0	0	0	0	0	0	0	—	—	
4674	2006 / 05 / 16	2235	243.9	—	—	—	—	0	0	0	0	0	0	0	0	—	—	
4675	2006 / 05 / 17	2215	230.8	—	—	—	—	0	0	0	0	0	0	0	0	—	—	
4676	2006 / 05 / 30	2225	58.7	0891	-13	-21	038	2	1	1	1	1	1	0	0	CSO	—	
				0887	-12	-12	047	1	1	0	0	0	0	1	0	HSX	small	
				0886	+08	+51	110	1	1	0	0	0	0	1	0	HSX	small	
				0890	-15	+57	116	1	0	1	0	0	0	0	0	1	AXX	small
4677	2006 / 05 / 31	2235	45.4	0886	+07	+65	110	1	0	1	0	0	0	0	1	AXX	small	



Georgi Dobrovolski Solar Observatory

REGION CO-ORDINATES AND CLASSIFICATIONS FOR JUNE 2006

All observations carried out by HOWARD BARNES .
 Telescope : 76 mm refractor (f . l . 910 mm) .
 Observed by PROJECTION . Full disc diameter = 145 mm approx .
 CM is stated in degrees .
 Region Numbers are NOAA/SEC Numbers .
 B = Heliographic Latitude (+ if NORTH , - if SOUTH) .
 CMD = Degrees of Longitude in respect to the Central Meridian (- if EAST , + if WEST) .
 L = Carrington Longitude .

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grp	grf	efp	ef	Class.	Remarks
4678	2006 / 06 / 01	2235	32.2	—	—	—	—	0	0	0	0	0	0	0	0	—	—
4679	2006 / 06 / 04	2250	352.3	0892	-08	-68	284	8	5	2	1	6	2	0	0	FAC	long
4680	2006 / 06 / 05	2310	338.9	0892	-08	-54	285	11	3	2	1	9	2	0	0	FAC	—
4681	2006 / 06 / 09	2230	286.3	0893	-02	-26	260	5	1	3	1	2	3	0	0	CAI	—
				0892	-06	-00	286	14	4	6	1	8	6	0	0	EAC	long
4682	2006 / 06 / 15	2220	207.0	0892	-06	+83	290	1	0	1	0	0	0	0	1	AXX	—
4683	2006 / 06 / 21	2250	127.3	—	—	—	—	0	0	0	0	0	0	0	0	—	—
4684	2006 / 06 / 23	2240	100.9	—	—	—	—	0	0	0	0	0	0	0	0	—	—
4685	2006 / 06 / 24	2245	87.6	—	—	—	—	0	0	0	0	0	0	0	0	—	—
4686	2006 / 06 / 25	2255	74.3	0897	+06	-76	358	2	1	1	1	1	1	0	0	CSO	—
4687	2006 / 06 / 26	2235	61.3	0897	+06	-60	001	4	1	3	1	1	3	0	0	CSI	—
4688	2006 / 06 / 29	2235	21.6	0898	-05	-55	327	6	2	3	1	3	3	0	0	DHI	—
				0897	+06	-16	006	9	3	5	1	4	5	0	0	DAC	small
4689	2006 / 06 / 30	2240	8.3	0898	-06	-40	328	4	2	2	1	2	2	0	0	DHI	—
				0897	+07	-02	006	5	2	3	1	2	3	0	0	ESI	—

Georgi Dobrovolski Solar Observatory

REGION CO-ORDINATES AND CLASSIFICATIONS FOR

JULY 2006

1/3

OF A CENTURY
OF OBSERVING
1973 - 2006

All observations carried out by HOWARD BARNES .

Telescope : 76 mm refractor (f . l . 910 mm) .

Observed by PROJECTION . Full disc diameter = 145 mm approx .

CM is stated in degrees .

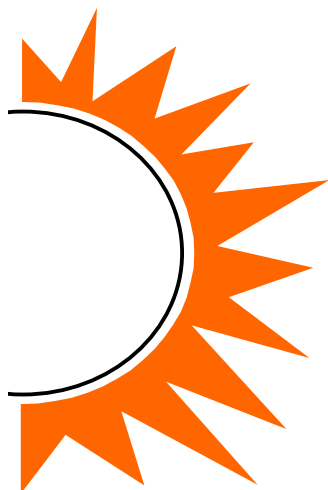
Region Numbers are NOAA/SEC Numbers .

B = Heliographic Latitude (+ if NORTH , - if SOUTH) .

CMD = Degrees of Longitude in respect to the Central Meridian (- if EAST , + if WEST) .

L = Carrington Longitude .

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grp	grf	efp	ef	Class.	Remarks
4690	2006 / 07 / 01	2250	354.9	0898	-06	-27	328	5	2	3	1	2	3	0	0	DHI	—
				0897	+06	+11	006	1	1	0	0	0	0	0	1	0	HSX
4691	2006 / 07 / 02	2240	341.8	0898	-06	-15	327	8	3	4	1	4	4	0	0	DHC	tight
				0897	+06	+22	004	1	0	1	0	0	0	0	0	1	AXX
4692	2006 / 07 / 03	2240	328.6	0898	-07	-01	328	5	2	3	1	2	3	0	0	DHI	tight
				0897	+07	+35	004	1	0	1	0	0	0	0	1	AXX	small
4693	2006 / 07 / 04	2255	315.2	0898	-07	+13	328	7	2	4	1	3	4	0	0	DKI	tight
4694	2006 / 07 / 13	2230	196.3	—	—	—	—	0	0	0	0	0	0	0	0	—	—
4695	2006 / 07 / 15	2240	169.8	0900	-05	-31	139	3	1	2	1	1	2	0	0	CSI	—
4696	2006 / 07 / 16	2235	156.6	0900	-05	-18	139	9	3	4	1	5	4	0	0	DAC	small
4697	2006 / 07 / 21	2230	90.5	—	—	—	—	0	0	0	0	0	0	0	0	—	—
4698	2006 / 07 / 23	2225	64.0	0901	+06	-57	007	7	2	3	1	4	3	0	0	DAI	—
4699	2006 / 07 / 24	2235	50.7	0901	+06	-44	007	8	2	4	1	4	4	0	0	DAI	—
4700	2006 / 07 / 25	2305	37.2	0901	+06	-29	008	6	2	4	1	2	4	0	0	DSI	—
4701	2006 / 07 / 26	2230	24.3	0901	+06	-15	009	4	1	3	1	1	3	0	0	CSI	—
4702	2006 / 07 / 27	2230	11.1	0901	+06	-02	009	4	1	3	1	1	3	0	0	CSO	class correct
4703	2006 / 07 / 28	2225	357.9	0901	+06	+11	009	3	1	2	1	1	2	0	0	CSO	class correct

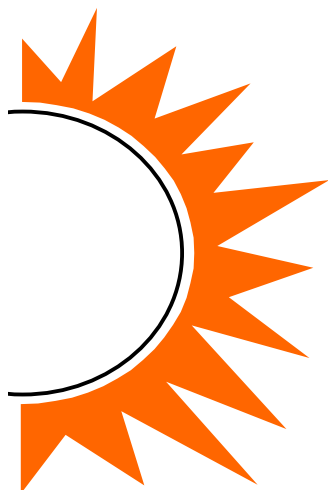


Georgi Dobrovolski Solar Observatory

REGION CO-ORDINATES AND CLASSIFICATIONS FOR AUGUST 2006

All observations carried out by HOWARD BARNES .
 Telescope : 76 mm refractor (f . l . 910 mm) .
 Observed by PROJECTION . Full disc diameter = 145 mm approx .
 CM is stated in degrees .
 Region Numbers are NOAA/SEC Numbers .
 B = Heliographic Latitude (+ if NORTH , - if SOUTH) .
 CMD = Degrees of Longitude in respect to the Central Meridian (- if EAST , + if WEST) .
 L = Carrington Longitude .

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grp	grf	efp	ef	Class.	Remarks
4704	2006 / 08 / 08	2245	212.2	0903	-09	-58	154	2	1	1	1	1	1	0	0	CSO	—
4705	2006 / 08 / 09	2240	199.1	0904	-14	-78	121	1	1	0	0	0	0	1	0	HHX	—
4706	2006 / 08 / 10	2235	185.9	0904	-13	-65	121	13	3	4	1	9	4	0	0	EKC	—
					+15	+25	211	1	0	1	0	0	0	0	1	AXX	small
4707	2006 / 08 / 12	2305	159.2	0904	-13	-39	120	11	2	3	1	8	3	0	0	FKI	—
4708	2006 / 08 / 14	2200	133.3	0904	-13	-13	120	12	2	7	1	5	7	0	0	FKI	—
4709	2006 / 08 / 15	2155	120.2	0904	-13	-00	120	14	3	5	1	9	5	0	0	FKC	—
4710	2006 / 08 / 17	2155	93.7	0904	-12	+26	120	13	4	4	1	9	4	0	0	FKC	—
4711	2006 / 08 / 22	2135	27.8	0905	-08	-62	326	5	2	3	1	2	3	0	0	ESI	—
4712	2006 / 08 / 23	2155	14.4	0905	-08	-48	326	7	2	2	1	5	2	0	0	ESI	short
4713	2006 / 08 / 25	2215	347.8	0905	-08	-22	326	9	2	4	1	5	4	0	0	EAI	short
4714	2006 / 08 / 26	2215	334.6	0905	-08	-08	327	12	2	5	1	7	5	0	0	EAI	—
4715	2006 / 08 / 27	2230	321.3	0905	-08	+07	328	16	5	6	1	10	6	0	0	EAC	—
4716	2006 / 08 / 28	2145	308.5	0905	-08	+21	329	15	6	4	1	11	4	0	0	EAC	—

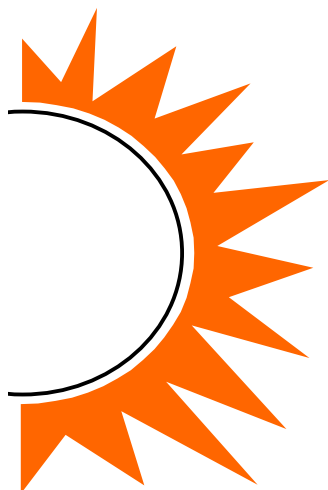


Georgi Dobrovolski Solar Observatory

REGION CO-ORDINATES AND CLASSIFICATIONS FOR SEPTEMBER 2006

All observations carried out by HOWARD BARNES .
 Telescope : 76 mm refractor (f . l . 910 mm) .
 Observed by PROJECTION . Full disc diameter = 145 mm approx .
 CM is stated in degrees .
 Region Numbers are NOAA/SEC Numbers .
 B = Heliographic Latitude (+ if NORTH , - if SOUTH) .
 CMD = Degrees of Longitude in respect to the Central Meridian (- if EAST , + if WEST) .
 L = Carrington Longitude .

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks
4717	2006 / 09 / 03	2200	229.1	—	—	—	—	0	0	0	0	0	0	0	0	—	—
4718	2006 / 09 / 07	2230	176.0	0908	-12	-46	130	2	1	0	1	2	0	0	0	HKX	—
				0907	-13	-18	158	2	1	1	1	1	1	0	0	CSO	small
				0909	-08	-10	166	8	3	3	1	5	3	0	0	DAC	—
4719	2006 / 09 / 13	2100	97.6	0908	-13	+32	130	4	1	2	1	2	2	0	0	CKI	—
				0909	-09	+78	176	2	1	1	1	1	1	0	0	CSO	small
4720	2006 / 09 / 18	2030	31.8	0910	-08	-51	341	1	1	0	0	0	0	1	0	HSX	—
4721	2006 / 09 / 19	2045	18.5	0910	-08	-37	341	1	1	0	0	0	0	1	0	HSX	—
4722	2006 / 09 / 21	2140	351.6	0910	-09	-13	339	2	1	1	1	1	1	0	0	CSO	small
4723	2006 / 09 / 25	2145	298.8	—	—	—	—	0	0	0	0	0	0	0	0	—	—

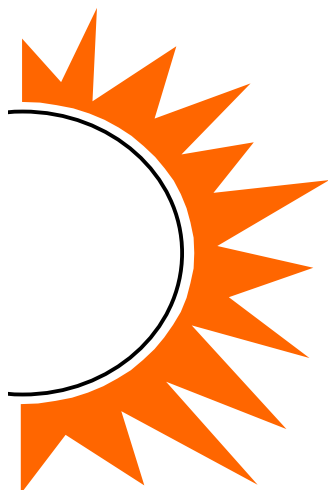


Georgi Dobrovolski Solar Observatory

REGION CO-ORDINATES AND CLASSIFICATIONS FOR OCTOBER 2006

All observations carried out by HOWARD BARNES .
 Telescope : 76 mm refractor (f . l . 910 mm) .
 Observed by PROJECTION . Full disc diameter = 145 mm approx .
 CM is stated in degrees .
 Region Numbers are NOAA/SEC Numbers .
 B = Heliographic Latitude (+ if NORTH , - if SOUTH) .
 CMD = Degrees of Longitude in respect to the Central Meridian (- if EAST , + if WEST) .
 L = Carrington Longitude .

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks
4724	2006 / 10 / 02	2050	206.9	0914	-10	-24	183	1	1	0	0	0	0	1	0	HSX	-
				0913	-19	-16	191	2	1	0	1	2	0	0	0	HAX	-
4725	2006 / 10 / 04	2005	180.9	0914	-10	+02	183	1	1	0	0	0	0	1	0	HSX	-
				0913	-19	+10	191	2	1	0	1	2	0	0	0	HAX	-
4726	2006 / 10 / 05	2030	167.5	0914	-09	+16	183	1	1	0	0	0	0	1	0	HSX	-
				0913	-19	+24	191	3	1	1	1	2	1	0	0	CAO	tight
4727	2006 / 10 / 06	2040	154.2	0914	-09	+30	184	1	1	0	0	0	0	1	0	HSX	-
				0913	-20	+35	189	4	1	1	1	3	1	0	0	CAO	tight
4728	2006 / 10 / 16	2025	22.4	-	-	-	-	0	0	0	0	0	0	0	0	-	-
4729	2006 / 10 / 24	1950	277.2	0917	-05	+70	347	3	2	1	1	2	1	0	0	DSI	-

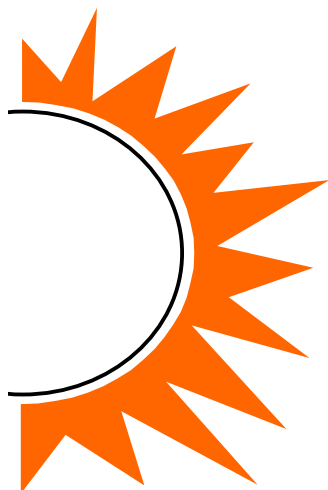


Georgi Dobrovolski Solar Observatory

REGION CO-ORDINATES AND CLASSIFICATIONS FOR NOVEMBER 2006

All observations carried out by HOWARD BARNES .
 Telescope : 76 mm refractor (f.l. 910 mm) .
 Observed by PROJECTION . Full disc diameter = 145 mm approx .
 CM is stated in degrees .
 Region Numbers are NOAA/SEC Numbers .
 B = Heliographic Latitude (+ if NORTH , - if SOUTH) .
 CMD = Degrees of Longitude in respect to the Central Meridian (- if EAST, + if WEST).
 L = Carrington Longitude .

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks
4730	2006 / 11 / 01	1930	171.9	0922	-14	-47	125	4	3	0	1	4	0	0	0	DAC	—
				0921	-07	-33	139	19	6	5	1	14	5	0	0	FAC	—
				0919	-15	+64	236	1	0	1	0	0	0	0	1	AXX	short
4731	2006 / 11 / 03	1925	145.6	0922	-13	-22	124	11	3	6	1	5	6	0	0	DAC	—
				0921	-06	-06	140	27	5	11	1	16	11	0	0	FAC	short
4732	2006 / 11 / 08	2155	78.3	0923	-05	-73	005	1	1	0	0	0	0	1	0	HHX	huge
				0921	-06	+64	142	4	2	2	1	2	2	0	0	ESI	—
4733	2006 / 11 / 11	1925	40.1	0923	-04	-37	003	7	1	3	1	4	3	0	0	CKI	huge penumbra
4734	2006 / 11 / 12	1930	26.9	0924	-07	-71	316	1	1	0	0	0	0	1	0	HSX	—
				0923	-04	-24	003	9	3	2	1	7	2	0	0	DKC	huge primary penumbra
4735	2006 / 11 / 13	1925	13.7	0924	-07	-63	311	5	3	1	1	4	1	0	0	EAC	—
				0923	-05	-11	003	6	2	2	1	4	2	0	0	DKI	huge primary penumbra
4736	2006 / 11 / 18	2020	307.3	0925	-05	-00	307	4	2	2	1	2	2	0	0	DSI	—
				0924	-08	+11	318	1	1	0	0	0	0	1	0	HSX	—
				0923	-05	+59	006	1	1	0	0	0	0	1	0	HHX	huge
4737	2006 / 11 / 24	1925	228.7	—	—	—	—	0	0	0	0	0	0	0	0	—	—
4738	2006 / 11 / 25	1915	215.6	0926	-08	-76	140	2	1	0	1	2	0	0	0	HAX	—
4739	2006 / 11 / 26	1930	202.3	0926	-08	-62	140	3	1	0	1	3	0	0	0	HKX	—
4740	2006 / 11 / 28	1945	175.8	0927	+08	-48	128	6	2	2	1	4	2	0	0	DAI	—
				0926	-08	-36	140	4	1	0	1	4	0	0	0	HKX	—
4741	2006 / 11 / 30	1925	149.7	0927	+10	-22	128	9	3	2	1	7	2	0	0	DAC	—
				0926	-09	-12	138	9	2	3	1	6	3	0	0	DKI	long
				0928	-07	+29	179	1	0	2	1	0	2	0	0	BXO	—



Georgi Dobrovolski Solar Observatory

REGION CO-ORDINATES AND CLASSIFICATIONS FOR DECEMBER 2006

All observations carried out by HOWARD BARNES .
 Telescope : 76 mm refractor (f . l . 910 mm) .
 Observed by PROJECTION . Full disc diameter = 145 mm approx .
 CM is stated in degrees .
 Region Numbers are NOAA/SEC Numbers .
 B = Heliographic Latitude (+ if NORTH , - if SOUTH) .
 CMD = Degrees of Longitude in respect to the Central Meridian (- if EAST , + if WEST) .
 L = Carrington Longitude .

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks
4742	2006 / 12 / 01	2030	135.9	0927	+09	-08	128	4	2	2	1	2	2	0	0	DSI	—
				0926	-09	+02	138	10	2	4	1	6	4	0	0	DAI	—
4743	2006 / 12 / 05	1940	83.6	0930	-06	-75	009	4	1	0	1	4	0	0	0	HKX	large, old 0923
				0927	+08	+47	131	1	1	0	0	0	0	1	0	HSX	—
				0926	-09	+54	138	9	3	5	1	4	5	0	0	DAI	class correct
4744	2006 / 12 / 06	2040	69.9	0930	-06	-61	009	9	2	2	1	7	2	0	0	DKI	tight
				0927	+08	+61	131	1	1	0	0	0	0	1	0	HSX	—
				0926	-09	+68	138	2	2	0	1	2	0	0	0	DSO	—
4745	2006 / 12 / 09	1910	31.2	0930	-05	-21	010	7	1	1	1	6	1	0	0	CKO	tight
4746	2006 / 12 / 10	1940	17.7	0930	-05	-09	009	13	1	7	1	6	7	0	0	CKI	tight
				?	+00	+01	019	2	0	2	1	0	2	0	0	BXO	—
4747	2006 / 12 / 14	1910	325.3	0930	-05	+44	009	11	1	0	1	11	0	0	0	HKX	large
4748	2006 / 12 / 21	1955	232.7	—	—	—	—	0	0	0	0	0	0	0	0	—	—
4749	2006 / 12 / 22	1950	219.6	—	—	—	—	0	0	0	0	0	0	0	0	—	—
4750	2006 / 12 / 27	2025	153.4	0932	-08	-09	144	1	0	1	0	0	0	0	1	AXX	—
4751	2006 / 12 / 31	1935	101.1	0933	-03	-69	032	3	1	1	1	2	1	0	0	CAO	—
				0934	+04	-66	035	2	1	0	1	2	0	0	0	HAX	small