



# *Georgi Dobrovolski Solar Observatory*

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## *Sunspot Co-ordinates and Classifications*

# **2002**

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# Georgi Dobrovolski Solar Observatory

## REGION CO-ORDINATES AND CLASSIFICATIONS FOR

### JANUARY 2002

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 .

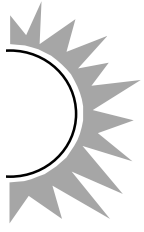
Region Numbers are NOAA/SEC Numbers .

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

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

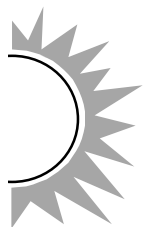
L = Carrington Longitude .

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grp	grf	efp	ef	Class.	Remarks	
4029	2002 / 01 / 01	2030	68.5	9767	-23	-52	016	17	5	5	1	12	5	0	0	FKC	—	
				9766	+04	-38	030	1	0	1	0	0	0	0	0	1	AXX	small
				9765	+06	-27	041	6	2	3	1	3	3	0	0	0	DAI	—
				9763	+06	-10	058	1	1	0	0	0	0	0	1	0	HSX	—
				9761	+10	+02	070	1	1	0	0	0	0	0	1	0	HSX	—
				9768	-06	+12	080	5	1	3	1	2	3	0	0	0	CAI	—
				9755	-08	+26	094	10	3	4	1	6	4	0	0	0	DAC	—
				9764	+14	+34	102	15	3	5	1	10	5	0	0	0	EAC	—
				9754	-07	+52	120	9	3	4	1	5	4	0	0	0	DAC	—
				9751	+03	+74	142	3	2	0	1	3	0	0	0	0	DAO	—
4030	2002 / 01 / 02	2040	55.2	9767	-23	-39	016	24	6	7	1	17	7	0	0	FHC	—	
				9766	+04	-24	031	3	1	2	1	1	2	0	0	0	CSI	small
				9771	-20	-20	035	3	0	3	1	0	3	0	0	0	BXI	—
				9765	+06	-14	041	4	1	3	1	1	3	0	0	0	CSI	—
				9763	+06	+03	058	1	1	0	0	0	0	0	1	0	HSX	—
				9761	+11	+15	070	1	1	0	0	0	0	0	1	0	HSX	—
				9768	-06	+25	080	5	2	3	1	2	3	0	0	0	DSI	—
				9770	+08	+26	081	3	1	2	1	1	2	0	0	0	CSI	—
				9769	-19	+30	085	4	2	0	1	4	0	0	0	0	DAO	—
				9755	-04	+39	094	3	1	2	1	1	2	0	0	0	CSI	—
				9764	+14	+47	102	5	3	2	1	3	2	0	0	0	EHI	class correct
				9754	-07	+65	120	9	3	3	1	6	3	0	0	0	DAC	—



REGION CO-ORDINATES AND CLASSIFICATIONS FOR  
**JANUARY 2002 continued.**

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks	
4031	2002 / 01 / 03	2215	41.2	9772	-18	-84	317	1	1	0	0	0	0	1	0	HSX	—	
				9767	-23	-24	017	28	6	14	1	14	14	0	0	FAC	—	
				9771	-20	-06	035	9	2	5	1	4	5	0	0	DAI	—	
				9766	+07	-09	032	1	0	1	0	0	0	0	0	1	AXX	—
				9765	+06	+02	043	3	1	2	1	1	2	0	0	CSI	—	
				9763	+07	+18	059	1	1	0	0	0	0	0	1	0	HSX	—
				9761	+11	+30	071	2	1	1	1	1	1	0	0	CSO	—	
				9770	+09	+40	081	5	3	2	1	3	2	0	0	DSC	small	
				9768	-07	+42	083	3	2	1	1	2	1	0	0	DSI	—	
				9769	-19	+44	085	2	2	0	1	2	0	0	0	DSO	—	
				9755	-04	+54	095	2	1	1	1	1	1	0	0	CSO	—	
				9764	+14	+63	104	4	2	2	1	2	2	0	0	DSI	—	
				4032	2002 / 01 / 04	2020	29.1	9772	-16	-67	322	1	1	0	0	0	0	1
9773	+14	-66	323					2	1	1	1	1	1	0	0	CRO	—	
9767	-22	-10	019					31	5	17	1	14	17	0	0	FAC	—	
9771	-20	+08	037					5	1	4	1	1	4	0	0	CSI	—	
9765	+06	+14	043					3	1	2	1	1	2	0	0	CSI	—	
9763	+06	+32	061					1	1	0	0	0	0	0	1	0	HSX	—
9761	+11	+43	072					1	1	0	0	0	0	0	1	0	HSX	—
9768	-06	+56	085					7	2	4	1	3	4	0	0	DAI	—	
9769	-19	+59	088					3	2	0	1	3	0	0	0	DAO	—	
9755	-03	+69	098					1	1	0	0	0	0	0	1	0	HSX	—
9764	+14	+78	107					1	1	0	0	0	0	0	1	0	HSX	—
4033	2002 / 01 / 06	2100	2.3	9773	+13	-38	324	4	3	0	1	4	0	0	0	DAC	—	
				9772	-17	-40	322	1	1	0	0	0	0	1	0	HSX	—	
				9767	-22	+15	017	22	6	9	1	13	9	0	0	EAC	—	
				9771	-23	+32	034	2	0	2	1	0	2	0	0	BXO	—	
				9774	+12	+22	024	3	0	3	1	0	3	0	0	BXI	—	
				9765	+06	+49	041	2	1	1	1	1	1	0	0	CSO	—	
				9768	-05	+82	084	3	1	2	1	1	2	0	0	CSI	—	



REGION CO-ORDINATES AND CLASSIFICATIONS FOR

JANUARY 2002 continued.

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grp	grf	efp	ef	Class.	Remarks	
4034	2002 / 01 / 09	2035	323.1	9778	-16	-60	263	12	4	3	1	9	3	0	0	DAC	—	
				9779	+28	-55	268	2	1	1	1	1	1	1	0	0	CSO	—
				9776	+11	-34	289	3	2	0	1	3	0	1	0	0	DAO	—
				9775	-05	-13	310	10	3	5	1	5	5	1	0	0	DAC	—
				9772	-16	-00	323	1	1	0	0	0	0	0	1	0	HSX	—
				9773	+14	+03	326	31	4	13	1	18	13	0	0	0	FAC	—
				9780	-11	+38	010	4	2	1	1	3	1	0	0	0	DAI	—
				9767	-18	+59	022	4	2	2	1	2	2	0	0	0	DSI	—
4035	2002 / 01 / 11	2015	296.9	9782	+09	-76	221	5	2	2	1	3	2	0	0	EH1	—	
				9781	-06	-67	230	1	1	0	0	0	0	1	0	HSX	—	
				9778	-16	-36	261	26	4	13	1	13	13	0	0	EAC	—	
				9779	+28	-30	267	2	1	1	1	1	1	0	0	CSO	—	
				9776	+11	-07	290	4	1	3	1	1	3	0	0	CSI	—	
				9775	-05	+13	310	24	6	13	1	11	13	0	0	EAC	—	
				9772	-16	+25	322	2	1	0	1	2	0	0	0	0	HAX	—
				9773	+14	+29	326	27	3	11	1	16	11	0	0	0	FKC	—
				9780	-10	+75	012	1	0	1	0	0	0	0	0	1	AXX	—
9767	-18	+84	021	1	0	1	0	0	0	0	0	1	AXX	—				
4036	2002 / 01 / 12	2035	283.6	9783	-10	-79	205	1	1	0	0	0	0	1	0	HHX	—	
				9782	+09	-65	219	7	3	2	1	5	2	0	0	EHC	—	
				9781	-05	-55	229	1	1	0	0	0	0	1	0	HSX	—	
				9778	-16	-24	260	17	3	5	1	12	5	0	0	EAC	—	
				9779	+29	-16	268	1	1	0	0	0	0	1	0	HSX	—	
				?	-11	+03	287	1	0	1	0	0	0	0	1	AXX	—	
				9776	+11	+10	294	3	1	2	1	1	2	0	0	0	CSI	—
				9775	-05	+27	311	26	6	11	1	15	11	0	0	0	FAC	—
				9772	-16	+38	322	1	1	0	0	0	0	1	0	0	HSX	—
9773	+15	+43	327	19	3	9	1	10	9	0	0	0	FKC	—				



REGION CO-ORDINATES AND CLASSIFICATIONS FOR  
**JANUARY 2002 continued.**

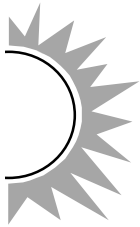
OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks
4037	2002 / 01 / 15	2040	244.0	9783	-11	-42	202	2	1	0	1	2	0	0	0	HAX	—
				9782	+06	-22	222	15	4	5	1	10	5	0	0	EAC	—
				9781	-05	-15	229	2	1	1	1	1	1	0	0	CSO	—
				9778	-15	+16	260	9	2	7	1	2	7	0	0	DSI	—
				9779	+29	+22	266	1	1	0	0	0	0	1	0	HSX	—
				9775	-06	+67	311	8	2	2	1	6	2	0	0	FAI	—
				9773	+16	+80	324	5	2	1	1	4	1	0	0	DAI	—
4038	2002 / 01 / 16	2055	230.7	9783	-12	-28	203	2	1	0	1	2	0	0	0	HAX	—
				9782/5	+08	-13	218	11	4	3	1	8	3	0	0	EAC	—
				9786	-26	-10	221	4	2	1	1	3	1	0	0	DAI	small
				?	-15	-07	224	1	0	1	0	0	0	0	1	AXX	—
				9781	-05	-02	229	2	1	1	1	1	1	0	0	CSO	—
				9778	-14	+32	263	1	1	0	0	0	0	1	0	HSX	small
				9779	+29	+35	266	1	1	0	0	0	0	1	0	HSX	—
4039	2002 / 01 / 18	2045	204.5	9787	-07	-73	131	2	1	1	1	1	1	0	0	CHO	—
				9788	+16	-54	150	1	1	0	0	0	0	1	0	HSX	—
				9789	+14	-12	192	2	0	2	1	0	2	0	0	BXO	—
				9783	-11	-03	201	4	1	1	1	3	1	0	0	CAO	—
				?	+18	+00	204	1	0	1	0	0	0	0	1	AXX	—
				9782/5	+07	+16	220	17	4	6	1	11	6	0	0	EAC	—
				9786	-26	+17	221	10	2	4	1	6	4	0	0	DAI	—
				9781	-05	+26	230	1	1	0	0	0	0	1	0	HSX	—
				9779	+29	+62	266	3	1	1	1	2	1	0	0	CAO	—
4040	2002 / 01 / 20	2035	178.2	9787	-07	-48	130	5	1	3	1	2	3	0	0	CHI	—
				9793	-15	-34	144	3	2	1	1	2	1	0	0	DSI	—
				9788	+17	-29	149	11	4	4	1	7	4	0	0	DAC	—
				9790	+28	-14	164	1	0	1	0	0	0	0	1	AXX	—
				9789	+15	+13	191	7	2	3	1	4	3	0	0	DAI	—
				9791	-03	+17	195	6	4	2	1	4	2	0	0	DAI	—
				9783	-11	+23	201	9	1	6	1	3	6	0	0	CAI	—
				9782/5	+09	+42	220	6	2	3	1	3	3	0	0	EAO	—
				9786	-25	+43	221	5	2	2	1	3	2	0	0	DSI	—
				9781	-04	+53	231	1	1	0	0	0	0	1	0	HSX	—



REGION CO-ORDINATES AND CLASSIFICATIONS FOR

JANUARY 2002 continued.

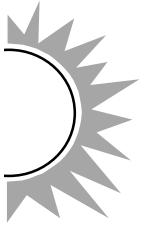
OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks	
4041	2002 / 01 / 21	2045	165.0	9787	-07	-35	130	7	2	3	1	4	3	0	0	DHI	—	
				9793	-15	-22	143	2	1	1	1	1	1	1	0	0	CSO	close
				9788	+18	-16	149	14	5	6	1	8	6	0	0	0	DAC	—
				9790	+28	-01	164	1	1	0	0	0	0	0	1	0	HSX	—
				9789	+17	+26	191	5	1	4	1	1	4	0	0	0	CSI	—
				9791	-03	+30	195	8	2	3	1	5	3	0	0	0	DAI	—
				9783	-11	+36	201	5	2	2	1	3	2	0	0	0	DAI	—
				9782/5	+09	+55	220	4	2	1	1	3	1	0	0	0	EAO	—
				9786	-25	+56	221	1	1	0	0	0	0	0	1	0	HSX	—
9781	-04	+66	231	1	1	0	0	0	0	0	1	0	HSX	—				
4042	2002 / 01 / 22	2015	152.1	9798	-03	-58	094	1	0	1	0	0	0	0	1	AXX	small	
				9796	+09	-34	118	1	0	1	0	0	0	0	0	1	AXX	—
				9787	-06	-22	130	10	3	4	1	6	4	0	0	0	DKC	—
				9793	-12	-08	144	4	2	2	1	2	2	0	0	0	DSI	—
				9788	+18	-03	149	15	6	5	1	10	5	0	0	0	EAC	—
				9790	+29	+12	164	1	0	1	0	0	0	0	0	1	AXX	—
				9791	-02	+43	195	5	2	2	1	3	2	0	0	0	DAI	—
				9783	-10	+49	201	9	4	3	1	6	3	0	0	0	DAC	—
				9782/5	+11	+68	220	4	2	1	1	3	1	0	0	0	EAO	—
				9786	-26	+70	222	1	1	0	0	0	0	0	1	0	HSX	—
9781	-06	+79	231	1	1	0	0	0	0	0	1	0	HSX	—				
4043	2002 / 01 / 27	2155	85.3	9802	-15	-62	023	7	3	3	1	4	3	0	0	DAC	—	
				9801	-03	-52	033	3	2	1	1	2	1	0	0	0	DSI	—
				9804	-19	-42	043	2	0	2	1	0	2	0	0	0	BXO	—
				9800	+07	-37	048	31	6	8	1	23	8	0	0	0	FKC	—
				9799	-24	-05	080	6	2	2	1	4	2	0	0	0	DAI	—
				9798	-02	+11	096	2	0	2	1	0	2	0	0	0	BXO	—
				9794	+13	+28	113	5	2	2	1	3	2	0	0	0	DAI	—
				9803	-24	+45	130	1	1	0	0	0	0	0	1	0	HRX	small
				9787	-08	+46	131	8	2	2	1	6	2	0	0	0	DKI	—
9788	+17	+68	153	6	2	4	1	2	4	0	0	0	DSI	—				



## Georgi Dobrovolski Solar Observatory

### REGION CO-ORDINATES AND CLASSIFICATIONS FOR JANUARY 2002 *continued.*

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks
4044	2002 / 01 / 28	2020	73.0	9806	+11	-73	000	1	1	0	0	0	0	1	0	HSX	—
				9802	-16	-52	021	17	3	8	1	9	8	0	0	DAC	—
				9801	-03	-41	032	3	2	0	1	3	0	0	0	DAO	—
				9804	-19	-30	043	3	0	3	1	0	3	0	0	BXI	—
				9800	+07	-26	047	23	4	6	1	17	6	0	0	EKC	—
				?	+22	-04	069	1	0	1	0	0	0	0	1	AXX	—
				9799	-24	+07	080	6	2	4	1	2	4	0	0	DSI	—
				9798	-03	+19	092	1	0	1	0	0	0	0	1	AXX	—
				9803	-25	+57	130	4	1	3	1	1	3	0	0	CSI	—
				9787	-08	+57	130	5	2	0	1	5	0	0	0	DKO	—
4045	2002 / 01 / 29	2035	59.7	9806	+10	-60	000	1	1	0	0	0	0	1	0	HSX	—
				9805	+14	-54	006	2	0	2	1	0	2	0	0	BXO	—
				?	-11	-52	008	1	0	1	0	0	0	0	1	AXX	small
				9802	-16	-39	021	19	3	4	1	15	4	0	0	EHC	—
				9801	-03	-27	033	2	2	0	1	2	0	0	0	DSO	—
				9804	-19	-16	044	2	0	2	1	0	2	0	0	BXO	small
				9800	+07	-13	047	33	7	16	1	17	16	0	0	EKC	—
				9799	-23	+20	080	6	1	3	1	3	3	0	0	CAI	—
				9803	-24	+70	130	1	1	0	0	0	0	1	0	HSX	—
				9787	-07	+70	130	2	1	1	1	1	1	0	0	CKO	class correct
4046	2002 / 01 / 30	2025	46.7	9809	-06	-84	323	1	1	0	0	0	0	1	0	HSX	—
				9807	-27	-77	330	3	2	1	1	2	1	0	0	ESI	—
				9806	+10	-47	000	1	1	0	0	0	0	1	0	HSX	—
				9805	+14	-42	005	1	0	1	0	0	0	0	1	AXX	—
				?	-11	-40	007	1	0	1	0	0	0	0	1	AXX	small
				9802	-17	-25	022	20	6	11	1	9	11	0	0	EAC	—
				9801	-04	-15	032	10	1	8	1	2	8	0	0	CAI	—
				9800	+08	+00	047	26	7	12	1	14	12	0	0	FAC	—
				9799	-23	+32	079	1	1	0	0	0	0	1	0	HSX	—
				9787	-07	+86	133	1	1	0	0	0	0	1	0	HSX	—



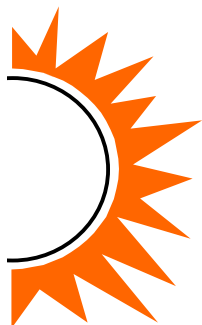
*Georgi Dobrovolski Solar Observatory*

*REGION CO-ORDINATES AND CLASSIFICATIONS FOR*

*JANUARY 2002 continued.*

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks
4047	2002 / 01 / 31	2050	33.3	9809	-06	-70	323	2	2	0	1	2	0	0	0	DSO	—
				9807	-26	-66	327	7	2	2	1	5	2	0	0	EAI	—
				9808	+15	-56	337	2	0	2	1	0	2	0	0	BXO	—
				9806	+12	-33	000	1	1	0	0	0	0	1	0	HSX	—
				9802	-16	-11	022	31	5	12	1	19	12	0	0	EKC	—
				9801	-04	-00	033	6	1	5	1	1	5	0	0	CSI	—
				9800	-23	+47	080	26	6	11	1	15	11	0	0	FAC	—





# Georgi Dobrovolski Solar Observatory

## REGION CO-ORDINATES AND CLASSIFICATIONS FOR

### FEBRUARY 2002

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 .

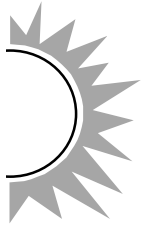
Region Numbers are NOAA/SEC Numbers .

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		
4048	2002 / 02 / 02	2035	7.1	9811	-27	-86	281	1	1	0	0	0	0	1	0	HSX	—		
				9810	+09	-71	296	1	1	0	0	0	0	0	1	0	HHX	—	
				9809	-06	-45	322	2	2	0	1	2	0	0	0	0	DSO	—	
				9807	-27	-41	326	12	5	3	1	9	3	0	0	0	EAC	—	
				9808	+16	-31	336	4	2	2	1	2	2	0	0	0	DSI	—	
				9806	+11	-07	000	3	1	2	1	1	2	0	0	0	CSI	—	
				9813	-24	-02	005	1	1	0	0	0	0	1	0	0	HRX	small	
				9812	+12	+13	020	3	2	0	1	3	0	0	0	0	0	DAO	—
				9802	-14	+15	022	31	6	7	1	24	7	0	0	0	0	EAC	—
				9801	-04	+26	033	3	1	2	1	1	2	0	0	0	0	CSI	—
9800	+10	+41	048	25	7	9	1	16	9	0	0	0	0	FAC	—				
4049	2002 / 02 / 05	2040	327.5	9819	-29	-70	258	2	1	1	1	1	1	0	0	CSO	—		
				9811	-25	-47	281	9	3	4	1	5	4	0	0	0	DAC	—	
				9815	+12	-45	283	2	1	0	1	2	0	0	0	0	HAX	—	
				9810	+10	-28	300	2	2	0	1	2	0	0	0	0	DHO	—	
				9817	-07	-25	303	1	1	0	0	0	0	1	0	0	HSX	small	
				9809	-06	-05	323	6	2	4	1	2	4	0	0	0	0	DSI	—
				9807	-25	-03	325	7	1	6	1	1	6	0	0	0	0	ESO	—
				9814	+07	+12	339	1	0	1	0	0	0	0	0	1	0	AXX	—
				9808	+17	+12	339	12	3	7	1	5	7	0	0	0	0	DAC	—
				9806	+11	+34	002	1	1	0	0	0	0	1	0	0	0	HSX	—
				9802	-15	+54	022	34	9	11	1	23	11	0	0	0	0	FAC	—
				9812	+13	+55	023	1	0	1	0	0	0	0	0	1	0	AXX	—
9801	-04	+69	037	1	1	0	0	0	0	1	0	0	0	HSX	—				

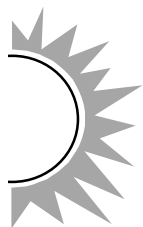


# Georgi Dobrovolski Solar Observatory

## REGION CO-ORDINATES AND CLASSIFICATIONS FOR

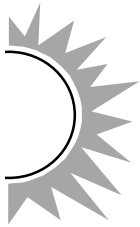
### FEBRUARY 2002 *continued.*

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks	
4050	2002 / 02 / 07	1950	301.6	9820	+15	-49	253	2	1	1	1	1	1	0	0	CSO	—	
				9819	-31	-46	256	2	1	1	1	1	1	1	0	0	CSO	close
				9815	+12	-20	282	8	2	3	1	5	3	0	0	0	DAI	—
				9811	-26	-23	279	13	2	6	1	7	6	0	0	0	DAI	—
				9810	+10	-04	298	3	1	1	1	2	1	0	0	0	CKO	—
				9807	-27	+19	321	3	1	1	1	2	1	0	0	0	CAO	—
				9809	-05	+21	323	2	2	0	1	2	0	0	0	0	DSO	—
				9808	+18	+37	339	5	1	2	1	3	2	0	0	0	CAI	—
				9806	+13	+60	002	1	1	0	0	0	0	0	1	0	HSX	small
				?	+19	+61	003	1	0	1	0	0	0	0	0	1	AXX	—
9802	-14	+77	019	4	2	1	1	3	1	0	0	0	DAI	—				
4051	2002 / 02 / 08	2105	287.8	9825	+12	-84	204	1	1	0	0	0	0	1	0	HHX	—	
				9822	+18	-71	217	3	1	1	1	2	1	0	0	0	CAO	—
				9819	-30	-35	253	1	0	1	0	0	0	0	0	1	AXX	—
				9820	+15	-32	256	1	1	0	0	0	0	0	1	0	HSX	—
				9821	-14	-18	270	8	2	3	1	5	3	0	0	0	DAI	—
				9811	-26	-08	280	13	2	7	1	6	7	0	0	0	DAI	—
				9815	+11	-04	284	6	2	3	1	3	3	0	0	0	DAI	—
				9810	+11	+12	300	6	1	4	1	2	4	0	0	0	CAI	—
				9807	-27	+32	320	1	0	1	0	0	0	0	0	1	AXX	—
				9809	-04	+36	324	3	2	1	1	2	1	0	0	0	DSI	—
				9814	+08	+49	337	1	1	0	0	0	0	0	1	0	HSX	—
				9808	+18	+52	340	2	0	2	1	0	2	0	0	0	BXO	—
4052	2002 / 02 / 12	2025	235.5	9825	+13	-32	203	26	4	12	1	14	12	0	0	FAC	—	
				9824	+22	-32	203	1	1	0	0	0	0	1	0	0	HSX	big
				?	-10	-15	220	2	0	2	1	0	2	0	0	0	BXO	—
				9822	+18	-14	221	2	1	1	1	1	1	0	0	0	CSO	—
				9826	-22	-14	221	4	1	3	1	1	3	0	0	0	CSI	—
				9823	-04	+17	252	4	1	2	1	2	2	0	0	0	CAI	—
				9821	-13	+36	271	23	3	9	1	14	9	0	0	0	DAC	—
				9811	-26	+43	278	1	1	0	0	0	0	0	1	0	HSX	—
9810	+10	+66	301	1	1	0	0	0	0	0	1	0	HSX	—				



REGION CO-ORDINATES AND CLASSIFICATIONS FOR  
**FEBRUARY 2002 continued.**

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks	
4053	2002 / 02 / 13	2055	222.0	9825	+14	-18	204	31	6	14	1	17	14	0	0	FAC	—	
				9824	+22	-18	204	1	1	0	0	0	0	0	1	0	HSX	big
				9826	-23	+00	222	4	0	4	1	0	4	0	0	0	BXI	—
				9822	+17	+03	225	1	0	1	0	0	0	0	0	1	AXX	—
				9819	-29	+31	253	2	1	1	1	1	1	1	0	0	CSO	—
				9823	-04	+34	256	1	0	1	0	0	0	0	0	1	AXX	—
				9821	-13	+51	273	11	4	5	1	6	5	0	0	0	DAC	—
				9811	-25	+58	280	1	1	0	0	0	0	1	0	0	HSX	—
				9810	+10	+82	304	1	1	0	0	0	0	1	0	0	HSX	—
4054	2002 / 02 / 14	2030	209.1	9828	-16	-12	197	3	0	3	1	0	3	0	0	BXI	—	
				9824	+22	-06	203	1	1	0	0	0	0	1	0	HSX	—	
				9825	+13	-03	206	35	6	16	1	15	16	0	0	FAC	—	
				9822	+17	+16	225	1	0	1	0	0	0	0	1	AXX	—	
				9819	-29	+42	251	3	1	2	1	1	2	0	0	CSI	—	
				9821	-12	+64	273	10	4	3	1	7	3	0	0	DAC	—	
4055	2002 / 02 / 16	2025	182.8	9829	-06	-54	129	4	2	2	1	2	2	0	0	ESI	small	
				9830	-20	-46	137	18	5	7	1	11	7	0	0	FAC	—	
				9824	+23	+20	203	1	1	0	0	0	0	1	0	HSX	—	
				9825	+13	+22	205	22	6	12	1	10	12	0	0	FAC	—	
				9831	-11	+39	222	2	2	0	1	2	0	0	0	DSO	small peumbs	
4056	2002 / 01 / 17	2025	169.6	9829	-05	-39	131	5	2	1	1	4	1	0	0	DAI	—	
				9830	-18	-35	135	29	9	8	1	21	8	0	0	FAC	—	
				?	+17	+27	197	2	0	2	1	0	2	0	0	BXO	—	
				9824	+24	+32	202	1	1	0	0	0	0	1	0	HSX	—	
				9825	+12	+33	203	11	4	6	1	5	6	0	0	FAC	—	
4057	2002 / 02 / 22	2120	103.3	9840	-12	-59	044	1	1	0	0	0	0	1	0	HSX	—	
				9843	-26	-59	044	1	0	1	0	0	0	0	1	AXX	small	
				9837	+09	-45	058	3	1	1	1	2	1	0	0	CAO	—	
				9842	-18	-04	099	1	1	0	0	0	0	1	0	HRX	—	
				9839	-17	+05	108	3	0	3	1	0	3	0	0	BXI	—	
				9841	-21	+19	122	7	3	3	1	4	3	0	0	DAC	—	
				9838	+05	+30	133	2	0	2	1	0	2	0	0	BXO	—	
				9830	-19	+33	136	21	5	6	1	15	6	0	0	FAC	—	

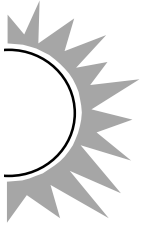


# Georgi Dobrovolski Solar Observatory

## REGION CO-ORDINATES AND CLASSIFICATIONS FOR

### FEBRUARY 2002 *continued.*

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks	
4058	2002 / 02 / 23	2100	90.3	9845	+15	-73	017	1	1	0	0	0	0	1	0	HSX	—	
				9840	-11	-48	042	1	0	1	0	0	0	0	0	1	AXX	—
				9844	+22	-35	055	3	2	1	1	2	1	0	0	0	DSI	—
				9837	+09	-34	056	7	2	2	1	5	2	0	0	0	DAI	—
				?	-04	+11	101	1	0	1	0	0	0	0	0	1	AXX	—
				9839	-18	+18	108	4	2	2	1	2	2	0	0	0	DSI	—
				9841	-20	+31	121	5	3	2	1	3	2	0	0	0	DSC	—
				9830	-19	+47	137	21	5	8	1	13	8	0	0	0	FAC	—
4059	2002 / 02 / 25	2025	64.3	9845	+17	-49	015	5	2	2	1	3	2	0	0	DAI	—	
				9847	-14	-39	025	3	2	0	1	3	0	0	0	0	DAO	—
				9848	-20	-35	029	6	2	4	1	2	4	0	0	0	DSI	—
				9840	-11	-22	042	1	0	1	0	0	0	0	0	1	AXX	small
				9843	-26	-20	044	4	1	3	1	1	3	0	0	0	CSI	—
				9844	+22	-07	057	14	5	6	1	8	6	0	0	0	DAC	—
				9837	+09	-05	059	7	1	4	1	3	4	0	0	0	CAI	—
				9842	-19	+34	098	13	3	3	1	10	3	0	0	0	DAC	—
				9839	-17	+46	110	12	3	7	1	5	7	0	0	0	EAC	—
				9846	-04	+51	115	9	2	3	1	6	3	0	0	0	DAI	—
				9841	-21	+58	122	2	1	1	1	1	1	0	0	0	CSO	—
				?	-12	+70	134	1	1	0	0	0	0	0	1	0	HSX	—
9830	-18	+77	141	7	2	2	1	5	2	0	0	0	DAI	—				
4060	2002 / 02 / 26	2045	50.9	9845	+17	-37	014	12	3	4	1	8	4	0	0	EAC	—	
				9847	-14	-26	025	1	1	0	0	0	0	1	0	HSX	small	
				9848	-20	-22	029	9	2	3	1	6	3	0	0	0	DAI	—
				9843	-26	-08	043	5	0	5	1	0	5	0	0	0	BXI	—
				9844	+22	+06	057	13	4	4	1	9	4	0	0	0	EAC	—
				9837	+09	+07	058	3	1	1	1	2	1	0	0	0	CAO	—
				?	-17	+13	064	1	0	1	0	0	0	0	0	1	AXX	—
				9842	-19	+47	098	10	3	3	1	7	3	0	0	0	DAI	class correct
				9839	-17	+60	111	9	4	2	1	7	2	0	0	0	DAC	—
				9841	-22	+65	116	1	1	0	0	0	0	1	0	0	HSX	small
9846	-03	+66	117	5	2	1	1	4	1	0	0	0	DAI	—				



*Georgi Dobrovolski Solar Observatory*

*REGION CO-ORDINATES AND CLASSIFICATIONS FOR*

*FEBRUARY 2002 continued.*

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks
4061	2002 / 02 / 27	2055	37.7	9845	+17	-23	015	17	5	4	1	13	4	0	0	FAC	—
				9847	-14	-12	026	1	0	1	0	0	0	0	1	AXX	—
				9848	-20	-07	031	5	2	1	1	4	1	0	0	DAO	—
				?	+03	+00	038	1	0	1	0	0	0	0	1	AXX	—
				9843	-26	+06	044	7	3	3	1	4	3	0	0	DAC	small
				9844	+22	+19	057	16	5	6	1	10	6	0	0	EAC	—
				?	-21	+29	067	2	0	2	1	0	2	0	0	BXO	—
				9850	+27	+49	087	3	1	1	1	2	1	0	0	CAO	—
				9842	-19	+61	099	6	2	3	1	3	3	0	0	DAI	—
				9839	-18	+73	111	8	3	2	1	6	2	0	0	DAC	—
				9846	-03	+80	118	3	2	0	1	3	0	0	0	DAO	—

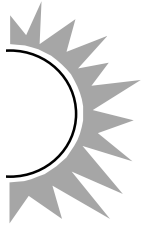


# Georgi Dobrovolski Solar Observatory

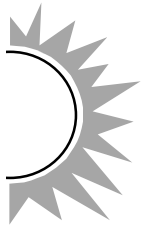
## REGION CO-ORDINATES AND CLASSIFICATIONS FOR MARCH 2002

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	
4062	2002 / 03 / 02	2025	358.4	9853	-24	-71	287	1	0	1	0	0	0	0	1	AXX	—	
				9852	+15	-54	304	2	0	2	1	0	2	0	0	BXO	—	
				9851	-05	-44	314	5	1	3	1	2	3	0	0	CAI	—	
				9845	+18	+16	014	17	6	5	1	12	5	0	0	FAC	—	
				9848	-19	+32	030	1	0	1	0	0	0	0	0	1	AXX	—
				9843	-26	+45	043	9	4	3	1	6	3	0	0	DAC	—	
				9840	-14	+50	048	1	0	1	0	0	0	0	0	1	AXX	—
9844	+22	+59	057	3	1	2	1	1	2	0	0	CSI	—					
4063	2002 / 03 / 05	2030	318.9	9861	+07	-69	250	1	0	1	0	0	0	0	1	AXX	—	
				9860	-06	-64	255	1	0	1	0	0	0	0	0	1	AXX	—
				9856	-06	-51	268	3	1	2	1	1	2	0	0	CHI	—	
				9859	-10	-37	282	1	0	1	0	0	0	0	0	1	AXX	—
				9853	-23	-31	288	7	2	3	1	4	3	0	0	DAI	—	
				9851	-06	-05	314	13	3	9	1	4	9	0	0	FAC	long	
				9855	+13	+01	320	1	0	1	0	0	0	0	0	1	AXX	—
				9858	-30	+05	324	1	0	1	0	0	0	0	0	1	AXX	—
				9854	+10	+35	354	2	0	2	1	0	2	0	0	BXO	—	
				9845	+17	+57	016	16	6	6	1	10	6	0	0	FAC	—	
9857	-04	+69	028	1	0	1	0	0	0	0	0	1	AXX	—				
4064	2002 / 03 / 16	2040	173.8	9871	-21	-34	140	10	2	4	1	6	4	0	0	EHI	—	
				9873	-17	-07	167	12	3	6	1	6	6	0	0	DAC	—	
				9872	-31	+02	176	4	2	2	1	2	2	0	0	DSI	—	
				9870	-20	+04	178	2	1	0	1	2	0	0	0	HAX	—	
				9866	-09	+16	190	28	5	9	1	19	9	0	0	FAC	—	
				9864	+19	+44	218	2	1	1	1	1	1	0	0	CSO	—	



OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks
4065	2002 / 03 / 17	2100	160.4	9871	-18	-22	138	13	2	5	1	8	5	0	0	EAI	—
				9873	-17	+07	167	11	3	4	1	7	4	0	0	DAC	—
				9872	-32	+16	176	6	2	4	1	2	4	0	0	DSI	—
				9870	-20	+18	178	3	1	1	1	2	1	0	0	CAO	—
				9866	-09	+31	191	14	3	4	1	10	4	0	0	EAC	—
				9864	+17	+60	220	2	1	1	1	1	1	0	0	CSO	—
4066	2002 / 03 / 18	2030	147.5	9871	-19	-10	138	15	2	9	1	6	9	0	0	EAI	—
				9873	-18	+18	166	12	4	5	1	7	5	0	0	DAC	—
				9872	-32	+27	175	3	1	1	1	2	1	0	0	CAO	—
				9870	-20	+32	180	7	1	4	1	3	4	0	0	CAI	—
				9866	-09	+43	191	13	2	4	1	9	4	0	0	EAI	—
				9864	+18	+70	218	1	1	0	0	0	0	0	1	0	HSX
4067	2002 / 03 / 19	2055	134.1	9876	-16	-80	054	1	1	0	0	0	0	1	0	HSX	small
				9875	-19	-64	070	2	1	1	1	1	1	0	0	CSO	tight
				9874	+17	-23	111	3	0	3	1	0	3	0	0	BXI	—
				?	-10	-04	130	1	0	1	0	0	0	0	1	AXX	—
				9871	-19	+04	138	12	3	6	1	6	6	0	0	EAI	class correct
				9873	-18	+33	167	8	2	5	1	3	5	0	0	DAI	—
				9870	-20	+45	179	7	1	4	1	3	4	0	0	CAI	—
				9866	-09	+57	191	6	2	0	1	6	0	0	0	EAO	—
4068	2002 / 03 / 20	2100	120.9	9878	+08	-77	044	1	1	0	0	0	0	1	0	HSX	—
				9876	-16	-67	054	1	1	0	0	0	0	1	0	HSX	—
				9875	-18	-50	071	9	2	2	1	7	2	0	0	DAI	—
				9874	+18	-10	111	2	0	2	1	0	2	0	0	BXO	—
				9871	-19	+17	138	12	2	4	1	8	4	0	0	EAI	—
				9877	+18	+27	148	2	2	0	1	2	0	0	0	DSO	small
				9873	-17	+47	168	2	1	0	1	2	0	0	0	HAX	—
				9870	-21	+59	180	2	1	1	1	1	1	0	0	CSO	—
				9866	-08	+71	192	4	2	0	1	4	0	0	0	EAO	—

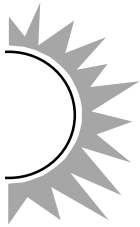


REGION CO-ORDINATES AND CLASSIFICATIONS FOR  
**MARCH 2002 continued.**

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks	
4069	2002 / 03 / 21	2100	107.7	9878	+09	-66	042	4	2	1	1	3	1	0	0	DAI	—	
				9876	-15	-56	052	3	2	1	1	2	1	0	0	DSI	—	
				9880	+08	-37	071	1	0	1	0	0	0	0	0	1	AXX	big
				9875	-19	-37	071	10	2	4	1	6	4	0	0	0	DAI	—
				9871	-18	+30	138	11	3	3	1	8	3	0	0	0	EAC	—
				9877	+16	+42	150	3	2	1	1	2	1	0	0	0	DSI	—
				9873	-18	+65	173	2	1	0	1	2	0	0	0	0	HAX	—
				9870	-20	+71	179	1	1	0	0	0	0	0	1	0	HSX	—
				9866	-09	+82	190	1	1	0	0	0	0	0	0	1	0	HSX
4070	2002 / 03 / 22	2055	94.6	9882	+14	-75	020	2	1	1	1	1	1	0	0	CSO	—	
				9878	+08	-56	039	8	2	6	1	2	6	0	0	0	ESI	—
				9876	-16	-47	048	4	2	1	1	3	1	0	0	0	DAI	—
				9875	-20	-25	070	13	3	6	1	7	6	0	0	0	EAC	—
				9880	+06	-23	072	1	0	1	0	0	0	0	0	1	AXX	—
				9881	-05	+06	101	2	0	2	1	0	2	0	0	0	BXO	—
				9871	-19	+44	139	6	3	3	1	3	3	0	0	0	ESC	—
				9877	+15	+55	150	7	3	1	1	6	1	0	0	0	DAC	—
				9873	-18	+79	174	1	1	0	0	0	0	0	1	0	HSX	small
4071	2002 / 03 / 23	2050	81.4	9883	+06	-69	012	1	1	0	0	0	0	1	0	HSX	—	
				9882	+14	-56	025	2	1	0	1	2	0	0	0	0	HAX	—
				9878E*	+11	-49	032	2	0	2	1	0	2	0	0	0	BXO	—
				9878W*	+10	-39	042	5	2	3	1	2	3	0	0	0	DSI	—
				9876	-16	-32	049	10	5	3	1	7	3	0	0	0	EAC	—
				9875	-20	-10	071	9	1	4	1	5	4	0	0	0	CAI	—
				9880	+06	-09	072	7	1	6	1	1	6	0	0	0	CSI	—
				9881	-04	+18	099	1	0	1	0	0	0	0	0	1	AXX	—
				9871	-18	+58	139	6	3	1	1	5	1	0	0	0	DAC	—
9879	+14	+74	155	5	2	2	1	3	2	0	0	0	DAI	—				

\* GDSO designation





## Georgi Dobrovolski Solar Observatory

### REGION CO-ORDINATES AND CLASSIFICATIONS FOR

### MARCH 2002 *continued.*

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks	
4072	2002/03/25	2125	54.7	9883	+06	-46	009	1	1	0	0	0	0	1	0	HSX	—	
				9882	+16	-30	025	2	2	0	1	2	0	0	0	0	DSO	tight
				9878	+08	-15	040	9	3	3	1	6	3	0	0	0	DAC	—
				9876	-15	-07	048	17	7	8	1	9	8	0	0	0	EAC	—
				9880	+08	+20	075	11	4	5	1	6	5	0	0	0	DAC	—
				9875	-20	+20	075	3	1	1	1	2	1	0	0	0	CAO	—
				9881	-03	+46	101	9	2	3	1	6	3	0	0	0	DAI	—
4073	2002/03/26	2130	41.5	9884	-18	-54	348	2	1	1	1	1	1	0	0	CSO	—	
				9883	+06	-32	010	2	1	0	1	2	0	0	0	HAX	—	
				9882	+16	-16	026	3	1	2	1	1	2	0	0	0	CRI	—
				9878	+08	-02	040	13	4	3	1	10	3	0	0	0	DAC	—
				9876	-15	+06	048	16	4	6	1	10	6	0	0	0	EAC	—
				9880	+08	+34	076	11	3	4	1	7	4	0	0	0	DAC	—
				9875	-21	+34	076	2	1	0	1	2	0	0	0	0	HAX	—
9881	-03	+60	102	4	2	1	1	3	1	0	0	0	DSI	—				
4074	2002/03/28	2030	15.7	9888	-11	-83	293	1	1	0	0	0	0	1	0	HSX	—	
				9885	+11	-59	317	7	2	2	1	5	2	0	0	0	EHI	—
				9884	-19	-28	348	7	3	3	1	4	3	0	0	0	DAC	—
				9883	+06	-07	009	2	1	1	1	1	1	0	0	0	CRO	—
				9878	+09	+23	039	9	3	4	1	5	4	0	0	0	DAC	—
				9876	-14	+32	048	17	5	10	1	7	10	0	0	0	EAC	small
				9880	+09	+60	076	12	4	2	1	10	2	0	0	0	DAC	—



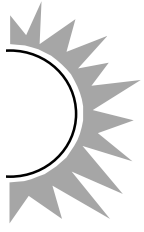
# Georgi Dobrovolski Solar Observatory

## REGION CO-ORDINATES AND CLASSIFICATIONS FOR

### APRIL 2002

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	
4075	2002 / 04 / 01	2050	322.7	9888	-13	-34	289	12	3	3	1	9	3	0	0	DKC	—	
				9889	-20	-32	291	2	0	2	1	0	2	0	0	BXO	—	
				9887	+01	-26	297	29	5	13	1	16	13	0	0	EKC	—	
				9886	+11	-18	305	21	4	11	1	10	11	0	0	EAC	—	
				?	-06	-07	316	2	0	2	1	0	2	0	0	BXO	—	
				9885	+11	-03	320	26	6	10	1	16	10	0	0	FKC	—	
				?	+01	+04	327	1	0	1	0	0	0	0	0	1	AXX	—
				9884	-19	+23	346	7	1	6	1	1	6	0	0	0	CSI	—
				9890	-15	+33	356	2	0	2	1	0	2	0	0	0	BXO	—
4076	2002 / 04 / 02	2140	309.1	9892	+05	-65	244	3	1	2	1	1	2	0	0	CSI	—	
				9888	-12	-21	288	13	3	6	1	7	6	0	0	DAC	—	
				9889	-19	-20	289	1	0	1	0	0	0	0	0	1	AXX	small
				9887	+02	-13	296	25	6	10	1	15	10	0	0	0	EKC	—
				9886	+12	-04	305	14	3	6	1	8	6	0	0	0	EAC	—
				9891	-08	+06	315	3	0	3	1	0	3	0	0	0	BXI	—
				9885	+13	+12	321	17	7	5	1	12	5	0	0	0	FHC	—
				?	+01	+18	327	2	1	0	1	2	0	0	0	0	HAX	—
				9884	-18	+37	346	4	1	2	1	2	2	0	0	0	CAI	—
4077	2002 / 04 / 03	2150	295.8	9893	+18	-80	216	1	1	0	0	0	0	1	0	HSX	—	
				9892	+04	-51	245	3	1	1	1	2	1	0	0	0	CAO	—
				9888	-13	-09	287	12	2	7	1	5	7	0	0	0	DAI	—
				9889	-19	-07	289	3	0	3	1	0	3	0	0	0	BXI	—
				9887	+02	+00	296	24	6	5	1	19	5	0	0	0	FKC	—
				9886	+12	+08	304	11	3	4	1	7	4	0	0	0	EAC	—
				9885	+13	+24	320	19	4	6	1	13	6	0	0	0	FHC	—
				?	+01	327	327	2	1	1	1	1	1	0	0	0	CSO	—
				9884	-17	+51	347	4	1	2	1	2	2	0	0	0	CAI	—

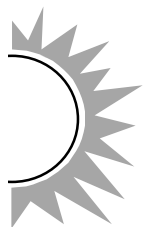


# Georgi Dobrovolski Solar Observatory

## REGION CO-ORDINATES AND CLASSIFICATIONS FOR

### APRIL 2002 continued.

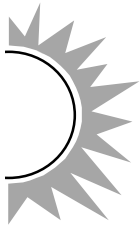
OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks	
4078	2002 / 04 / 06	2025	257.0	9899	+18	-74	183	1	1	0	0	0	0	1	0	HSX	—	
				9898	-19	-68	189	2	1	1	1	1	1	1	0	0	CSO	small
				9896	-11	-63	194	1	1	0	0	0	0	0	1	0	HSX	—
				9893	+19	-42	215	15	5	7	1	8	7	0	0	0	FKC	—
				9900	-29	-23	234	1	0	1	0	0	0	0	0	1	AXX	—
				9892	+05	-09	248	1	0	1	0	0	0	0	0	1	AXX	small
				9897	-01	+00	257	8	2	3	1	5	3	0	0	0	DAI	—
				9894	+14	+20	277	1	0	1	0	0	0	0	0	1	AXX	—
				9888	-12	+30	287	6	1	3	1	3	3	0	0	0	CAI	—
				9887	+03	+40	297	23	5	6	1	17	6	0	0	0	FKC	—
				9886	+14	+49	306	7	3	2	1	5	2	0	0	0	DAC	—
				9885	+13	+62	319	8	3	3	1	5	3	0	0	0	FHO	—
4079	2002 / 04 / 09	2100	217.1	9903	+19	-63	154	3	2	0	1	3	0	0	0	DAO	—	
				9902	+13	-56	161	5	3	2	1	3	2	0	0	ESC	—	
				9899	+18	-34	183	7	2	3	1	4	3	0	0	DAI	—	
				9896	-11	-23	194	1	1	0	0	0	0	1	0	HSX	—	
				9905	-17	-19	198	5	0	5	1	0	5	0	0	BXI	—	
				9901	+19	-13	204	21	6	5	1	16	5	0	0	0	EAC	—
				9893	+19	-02	215	12	3	6	1	6	6	0	0	0	DKC	—
				9904	-16	+05	222	5	1	2	1	3	2	0	0	0	CAI	—
				9900	-29	+17	234	15	4	7	1	8	7	0	0	0	EAC	—
				9897	-02	+41	258	1	1	0	0	0	0	1	0	0	HSX	small
				9887	+04	+80	297	3	2	1	1	2	1	0	0	0	ESI	—
4080	2002 / 04 / 10	2115	203.7	9906	-16	-55	149	2	1	1	1	1	1	0	0	CSO	—	
				9903	+19	-49	155	3	2	1	1	2	1	0	0	DSI	—	
				9902	+13	-45	159	4	2	2	1	2	2	0	0	FSI	—	
				9899	+18	-24	180	6	3	1	1	5	1	0	0	DAC	—	
				9896	-11	-10	194	1	1	0	0	0	0	1	0	HSX	—	
				9905	-17	-06	198	6	2	3	1	3	3	0	0	0	DAI	—
				9901	+20	-00	204	20	6	5	1	15	5	0	0	0	EAC	—
				9893	+19	+12	216	12	3	4	1	8	4	0	0	0	DKC	—
				9904	-16	+19	223	4	2	2	1	2	2	0	0	0	DSI	—
				9900	-28	+30	234	17	5	8	1	9	8	0	0	0	DAC	small
9897	-02	+57	261	1	0	1	0	0	0	0	1	0	AXX	—				



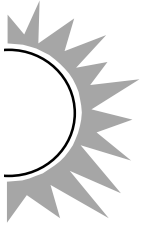
REGION CO-ORDINATES AND CLASSIFICATIONS FOR

APRIL 2002 continued.

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks
4081	2002/04/11	2115	190.5	9907	-04	-76	115	8	3	2	1	6	2	0	0	EAC	—
				9906	-16	-42	149	13	3	7	1	6	7	0	0	DAC	—
				9903	+19	-37	154	5	2	2	1	3	2	0	0	DAI	—
				9902	+13	-30	161	5	2	2	1	3	2	0	0	FAI	sparse
				?	-10	-20	171	1	0	1	0	0	0	0	1	AXX	—
				9899	+18	-08	183	4	2	1	1	3	1	0	0	DAI	—
				9896	-11	+03	194	1	1	0	0	0	0	1	0	HSX	—
				9905	-17	+07	198	6	1	4	1	2	4	0	0	CAI	—
				9908	+05	+09	200	5	1	4	1	1	4	0	0	CSI	—
				9901	+19	+13	204	24	5	8	1	16	8	0	0	FAC	—
				9893	+19	+24	215	11	3	5	1	6	5	0	0	DAC	—
				9904	-16	+31	222	3	1	2	1	1	2	0	0	CSI	—
9900	-29	+43	234	10	3	4	1	6	4	0	0	DAC	—				
4082	2002/04/15	2105	137.8	9909	+11	-58	080	1	1	0	0	0	0	1	0	HSX	—
				9910	-21	-52	086	2	1	1	1	1	1	0	0	CSO	small
				9907	-04	-23	115	23	6	10	1	13	10	0	0	EAC	—
				9903	+16	+11	149	3	1	1	1	2	1	0	0	CAO	small
				9906	-15	+12	150	21	5	9	1	13	9	0	0	EKC	—
				9902	+12	+26	164	7	1	5	1	2	5	0	0	CAI	—
				9899	+19	+42	180	2	1	0	1	2	0	0	0	HAX	—
				9896	-09	+58	196	1	1	0	0	0	0	1	0	HSX	—
				9905	-14	+67	205	4	2	2	1	2	2	0	0	DSI	—
				9901	+21	+68	206	9	2	3	1	6	3	0	0	EKI	—
4083	2002/04/16	2110	124.6	9909	+11	-44	081	2	2	0	1	2	0	0	0	DSO	tight
				9910	-20	-39	086	5	1	4	1	1	4	0	0	CSI	—
				?	+24	-32	093	1	0	1	0	0	0	0	1	AXX	small
				9907	-03	-09	116	18	3	11	1	7	11	0	0	EAC	—
				?	-08	+06	131	1	0	1	0	0	0	0	1	AXX	—
				9906	-15	+26	151	19	3	2	1	17	2	0	0	EKC	—
				9902	+12	+40	165	4	1	2	1	2	2	0	0	CAI	—
				9899	+18	+56	181	1	1	0	0	0	0	1	0	HSX	—
				9896	-10	+72	197	1	1	0	0	0	0	1	0	HSX	—
9905	-15	+81	206	1	1	0	0	0	0	1	0	HSX	small				



OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks
4084	2002 / 04 / 17	2055	111.5	9909	+08	-29	082	3	2	1	1	2	1	0	0	DSI	close
				9910	-20	-23	088	9	2	5	1	4	5	0	0	DAI	—
				?	-04	-10	101	1	0	1	0	0	0	0	1	AXX	—
				9907	-03	+06	117	13	3	8	1	5	8	0	0	DAC	small
				9906	-14	+40	151	27	3	7	1	20	7	0	0	EAC	—
				9902	+12	+54	165	2	1	0	1	2	0	0	0	HAX	—
				9899	+19	+70	181	1	1	0	0	0	0	0	1	0	HSX
4085	2002 / 04 / 20	2100	71.8	9915	+11	-69	003	2	0	2	1	0	2	0	0	BXO	—
				9914	+05	-61	011	3	1	1	1	2	1	0	0	CAO	—
				9912	+10	-04	068	13	4	5	1	9	5	0	0	DAC	—
				9909	+07	+08	080	4	1	2	1	2	2	0	0	CAI	—
				9910	-20	+16	088	11	2	7	1	4	7	0	0	DAI	—
				?	+02	+31	103	1	0	1	0	0	0	0	1	AXX	—
				9907	-03	+46	118	3	1	2	1	1	2	0	0	CSI	—
9906	-14	+77	149	9	4	4	1	5	4	0	0	EAC	—				
4086	2002 / 04 / 28	2040	326.3	9926	+13	-12	314	5	1	2	1	3	2	0	0	CAI	—
				9919	+14	-02	324	6	2	3	1	3	3	0	0	DAI	—
				9921	+14	+26	352	2	0	2	1	0	2	0	0	BXO	—
				9915	+12	+39	005	12	2	5	1	7	5	0	0	DAI	—
				9914	+05	+50	016	5	2	2	1	3	2	0	0	DAI	—
4087	2002 / 04 / 29	2050	313.0	9928	+18	-77	236	1	1	0	0	0	0	1	0	HSX	—
				9927	-28	-70	243	2	1	1	1	1	1	0	0	CSO	—
				9929	+22	-31	282	3	0	3	1	0	3	0	0	BXI	—
				9926	+14	-01	312	5	1	2	1	3	2	0	0	CAI	—
				9919	+15	+11	324	4	1	3	1	1	3	0	0	CSI	—
				9922	+22	+22	335	1	0	1	0	0	0	0	1	AXX	—
				9915	+12	+51	004	7	4	2	1	5	2	0	0	DAC	—
				?	-09	+61	014	1	0	1	0	0	0	0	1	AXX	—
9914	+06	+62	015	3	2	1	1	2	1	0	0	DSI	—				



**Georgi Dobrovolski Solar Observatory**

**REGION CO-ORDINATES AND CLASSIFICATIONS FOR**

**APRIL 2002 continued.**

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks
4088	202 / 04 / 30	2055	299.7	9933	+16	-79	221	1	1	0	0	0	0	1	0	HSX	—
				9928	+18	-63	237	3	1	1	1	2	1	0	0	CAO	—
				9927	-29	-57	243	3	1	1	1	2	1	0	0	CAO	—
				9931	+15	-34	266	3	1	2	1	1	2	0	0	CSI	small
				9930	+12	+02	302	4	1	3	1	1	3	0	0	CSI	—
				9926	+14	+13	313	6	1	3	1	3	3	0	0	CAI	—
				9919	+14	+26	326	1	1	0	0	0	0	1	0	HSX	—
				9922	+22	+36	336	1	0	1	0	0	0	0	1	AXX	—
				9915	+12	+67	007	4	2	2	1	2	2	0	0	DSI	—
				9914	+05	+78	018	1	1	0	0	0	0	1	0	HSX	—



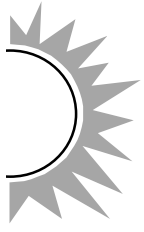
# Georgi Dobrovolski Solar Observatory

## REGION CO-ORDINATES AND CLASSIFICATIONS FOR

### MAY 2002

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	
4089	2002 / 05 / 06	2115	220.3	9945	-05	-81	139	1	1	0	0	0	0	1	0	HHX	—	
				9943	-11	-51	169	1	0	1	0	0	0	0	0	1	AXX	—
				9944	+08	-50	170	1	0	1	0	0	0	0	0	1	AXX	—
				9940	+13	-43	177	1	1	0	0	0	0	0	1	0	HSX	—
				9939	+17	-41	179	1	1	0	0	0	0	0	1	0	HSX	—
				9938	-05	-33	187	1	1	0	0	0	0	0	1	0	HSX	—
				9937	-10	-30	190	7	2	2	1	5	2	0	0	0	DAI	—
				9942	+21	-22	198	2	0	2	1	0	2	0	0	0	BXO	—
				9934	-17	-09	211	23	4	9	1	14	9	0	0	0	DKC	—
				9933	+18	-01	219	2	1	1	1	1	1	0	0	0	CSO	—
				9941	-22	+02	222	2	1	0	1	2	0	0	0	0	HAX	—
				9932	-28	+07	227	3	1	1	1	2	1	0	0	0	CAO	—
				9936	-16	+12	232	3	1	2	1	1	2	0	0	0	CSI	—
				9928	+18	+17	237	5	1	3	1	2	3	0	0	0	CAI	—
				9935	-19	+22	242	1	1	0	0	0	0	1	0	0	HSX	small
9931	+15	+50	270	1	1	0	0	0	0	1	0	0	HRX	—				
9929	+23	+65	285	4	2	1	1	3	1	0	0	0	DAI	—				
4090	2002 / 05 / 15	2120	101.2	9957	+06	-82	019	1	1	0	0	0	0	1	0	HSX	—	
				9955	-14	-69	032	1	1	0	0	0	0	1	0	HSX	—	
				9954	-22	-67	034	6	2	3	1	3	3	0	0	DAI	—	
				9951	+11	-30	071	2	0	2	1	0	2	0	0	BXO	—	
				9948	-22	-16	085	5	3	2	1	3	2	0	0	EHC	loose	
				9950	-06	+07	108	7	1	5	1	2	5	0	0	CAI	—	
				?	-21	+15	116	1	0	1	0	0	0	0	1	AXX	—	
				9945	-05	+37	138	9	4	3	1	6	3	0	0	DKC	—	
9953	+06	+50	151	3	2	0	1	3	0	0	0	DAO	—					



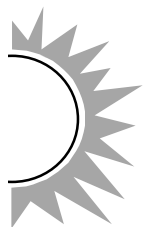
## Georgi Dobrovolski Solar Observatory

### REGION CO-ORDINATES AND CLASSIFICATIONS FOR

*MAY 2002 continued.*

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks	
4091	2002 / 05 / 19	2230	47.6	9961	-22	-78	330	5	2	1	1	4	1	0	0	DAI	—	
				9962	+15	-75	333	1	1	0	0	0	0	0	1	0	HSX	small
				9960	+14	-60	348	3	1	0	1	3	0	0	0	0	HAX	—
				9957	+08	-36	012	33	6	4	1	29	4	0	0	0	FAC	—
				9958	+04	-26	022	1	1	0	0	0	0	0	1	0	HSX	—
				9955	-14	-17	031	1	1	0	0	0	0	0	1	0	HSX	—
				9954	-22	-16	032	6	1	2	1	4	2	0	0	0	CAI	—
				9948	-21	+42	090	1	1	0	0	0	0	0	1	0	HHX	—
				9950	-04	+64	110	1	0	1	0	0	0	0	0	0	1	AXX
4092	2002 / 05 / 23	2040	355.7	9965	-10	-51	305	3	1	2	1	1	2	0	0	CSI	—	
				9967	+13	-49	307	1	1	0	0	0	0	0	1	0	HSX	small
				9963	+14	-39	317	8	3	3	1	5	3	0	0	0	DHC	—
				9966	+10	-37	319	1	0	1	0	0	0	0	0	1	AXX	—
				9961	-22	-25	331	14	3	6	1	8	6	0	0	0	EAC	—
				9962	+15	-24	332	2	1	1	1	1	1	1	0	0	CSO	—
				9960	+14	-09	347	7	2	2	1	5	2	0	0	0	DAI	—
				9964	-14	+02	358	2	0	2	1	0	2	0	0	0	BXO	—
				9957	+10	+16	012	35	8	6	1	29	6	0	0	0	FAC	—
				9958	+04	+29	025	1	1	0	0	0	0	0	1	0	HSX	—
9954	-22	+35	031	2	1	1	1	1	1	1	0	0	CRO	—				
4093	2002 / 05 / 24	2030	342.6	9965	-10	-40	303	3	1	2	1	1	2	0	0	CSI	—	
				9967	+13	-36	307	1	1	0	0	0	0	0	1	0	HSX	small
				9968	-13	-29	314	1	1	0	0	0	0	0	1	0	HSX	—
				9963	+15	-26	317	14	6	5	1	9	5	0	0	0	EKC	—
				9966	+09	-23	320	1	0	1	0	0	0	0	0	1	AXX	—
				9961	-22	-12	331	18	6	4	1	14	4	0	0	0	FAC	—
				9962	+15	-11	332	2	1	1	1	1	1	1	0	0	CSO	—
				9960	+14	+06	349	7	2	3	1	4	3	0	0	0	DAI	—
				9957	+11	+29	012	26	5	7	1	19	7	0	0	0	FAC	—
				9958	+04	+41	024	1	1	0	0	0	0	0	1	0	HSX	—
9954	-21	+47	030	1	0	1	0	0	0	0	0	0	1	AXX	—			





REGION CO-ORDINATES AND CLASSIFICATIONS FOR

MAY 2002 *continued.*

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks	
4094	2002 / 05 / 25	2100	329.1	9969	+09	-69	260	2	2	0	1	2	0	0	0	DSO	small	
				9968	-14	-21	308	1	0	1	0	0	0	0	0	1	AXX	—
				9965	-08	-21	308	2	1	1	1	1	1	1	0	0	CSO	tight
				9963	+14	-11	318	16	5	9	1	7	9	0	0	0	EHC	—
				9966	+10	-06	323	3	1	2	1	1	2	0	0	0	CSI	—
				9961	-21	+02	331	17	5	10	1	7	10	0	0	0	FAC	—
				9962	+16	+05	334	1	1	0	0	0	0	1	0	0	HSX	—
				9960	+14	+18	347	8	2	5	1	3	5	0	0	0	DAI	—
				9957	+10	+43	012	19	4	5	1	14	5	0	0	0	FAC	—
				9958	+05	+56	025	1	1	0	0	0	0	1	0	0	HSX	—
4095	2002 / 05 / 26	2110	315.8	9969	+09	-58	258	3	2	1	1	2	1	0	0	DSI	—	
				9970	+05	-57	259	4	2	0	1	4	0	0	0	0	DAO	—
				9965	-08	-08	308	2	1	1	1	1	1	0	0	0	CSO	tight
				9963	+14	+00	316	14	3	5	1	9	5	0	0	0	EKC	—
				9966	+11	+03	319	3	1	2	1	1	2	0	0	0	CSI	—
				9961	-21	+14	330	13	3	8	1	5	8	0	0	0	FAC	—
				9962	+16	+18	334	1	1	0	0	0	0	1	0	0	HSX	—
				9960	+15	+28	344	3	1	2	1	1	2	0	0	0	CSI	—
				9964	-14	+43	359	1	0	1	0	0	0	0	0	1	AXX	—
				9957	+10	+55	011	17	6	4	1	13	4	0	0	0	FAC	—
9958	+04	+68	024	1	1	0	0	0	0	1	0	0	HSX	—				
4096	2002 / 05 / 27	2205	302.0	9972	-20	-71	231	1	0	1	0	0	0	0	1	AXX	—	
				9969	+09	-44	258	4	2	1	1	3	1	0	0	0	DAI	—
				9970	+05	-43	259	8	3	4	1	4	4	0	0	0	DAC	—
				9965	-08	+05	307	2	1	0	1	2	0	0	0	0	HAX	—
				9963	+14	+15	317	14	3	5	1	9	5	0	0	0	EHC	—
				9966	+11	+19	321	1	1	0	0	0	0	1	0	0	HSX	—
				9961	-22	+28	330	5	2	2	1	3	2	0	0	0	EAO	—
				9962	+16	+32	334	1	1	0	0	0	0	1	0	0	HSX	—
				9960	+15	+41	343	2	1	1	1	1	1	0	0	0	CSO	—
				9957	+10	+71	013	7	3	4	1	3	4	0	0	0	ESC	—



## Georgi Dobrovolski Solar Observatory

### REGION CO-ORDINATES AND CLASSIFICATIONS FOR

*MAY 2002 continued.*

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks	
4097	2002 / 05 / 28	2155	288.9	9973	-16	-75	214	10	3	2	1	8	2	0	0	FKC	huge	
				9974	+18	-73	216	1	0	1	0	0	0	0	0	1	AXX	—
				9972	-21	-58	231	4	2	1	1	3	1	0	0	0	DAI	—
				9969	+09	-32	257	5	1	4	1	1	4	0	0	0	CSI	—
				9970	+05	-30	259	11	2	6	1	5	6	0	0	0	DAI	—
				9965	-07	+19	308	1	1	0	0	0	0	0	1	0	HSX	—
				9966	+11	+34	323	1	1	0	0	0	0	0	1	0	HSX	small
				9963	+14	+28	317	9	3	2	1	7	2	0	0	0	DKC	—
				9961	-22	+42	331	5	2	3	1	2	3	0	0	0	ESO	—
				9962	+15	+45	334	1	1	0	0	0	0	0	0	1	0	HSX
9960	+14	+54	343	1	0	1	0	0	0	0	0	0	1	AXX	—			
4098	2002 / 05 / 29	2140	275.8	9975	+23	-65	211	2	1	1	1	1	1	0	0	CSO	—	
				9973	-16	-63	213	16	3	4	1	12	4	0	0	0	FKC	huge
				9974	+18	-60	216	1	1	0	0	0	0	0	1	0	HSX	—
				9972	-21	-46	230	10	3	2	1	8	2	0	0	0	DAC	—
				9969	+09	-19	257	3	2	1	1	2	1	0	0	0	DSI	small
				9970	+06	-16	260	8	4	2	1	6	2	0	0	0	DAC	—
				9965	-08	+32	308	4	2	2	1	2	2	0	0	0	DSI	—
				9963	+16	+41	317	9	3	3	1	6	3	0	0	0	DHC	—
				9961	-21	+57	333	2	1	1	1	1	1	0	0	0	CSO	—
				9962	+16	+59	335	1	0	1	0	0	0	0	0	1	AXX	—
4099	2002 / 05 / 30	2200	262.4	9975	+23	-51	211	2	0	2	1	0	2	0	0	BXO	—	
				9973	-16	-49	213	22	6	4	1	18	4	0	0	0	FKC	large
				9974	+18	-46	216	1	1	0	0	0	0	0	1	0	HSX	—
				9972	-21	-32	230	9	3	3	1	6	3	0	0	0	DAC	—
				9969	+09	-05	257	1	0	1	0	0	0	0	0	1	AXX	—
				9970	+06	-02	260	7	2	4	1	3	4	0	0	0	DAI	—
				9977	-20	+26	288	2	0	2	1	0	2	0	0	0	BXO	—
				9967	+12	+50	312	1	1	0	0	0	0	0	1	0	HSX	small
				9965	-08	+46	308	3	1	2	1	1	2	0	0	0	CSI	—
				9963	+16	+55	317	6	2	3	1	3	3	0	0	0	DAI	—
9961	-21	+71	333	1	1	0	0	0	0	0	1	0	HSX	—				



# Georgi Dobrovolski Solar Observatory

## REGION CO-ORDINATES AND CLASSIFICATIONS FOR

### JUNE 2002

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 .

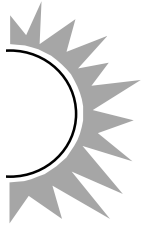
Region Numbers are NOAA/SEC Numbers .

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

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

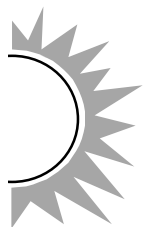
L = Carrington Longitude .

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grp	grf	efp	ef	Class.	Remarks
4100	2002/06/01	2230	235.6	9979	-30	-65	171	9	2	3	1	6	3	0	0	DAI	—
				9978	-20	-49	187	8	3	2	1	6	2	0	0	DAC	—
				9973	-17	-25	211	28	7	7	1	21	7	0	0	FKC	—
				9974	+19	-21	215	1	1	0	0	0	0	1	0	HSX	—
				9980	-29	-10	226	1	0	1	0	0	0	0	1	AXX	—
				9972	-21	-06	230	7	2	4	1	3	4	0	0	DAI	—
				9970	+05	+24	260	4	2	0	1	4	0	0	0	DAO	—
				9977	-20	+52	288	5	2	2	1	3	2	0	0	DAI	—
				9963	+17	+82	318	1	1	0	0	0	0	1	0	HHX	—
4101	2002/06/02	2145	222.8	9982	-03	-76	147	1	0	1	0	0	0	0	1	AXX	—
				9983	+24	-74	149	1	0	1	0	0	0	0	1	AXX	—
				9981	-22	-72	151	1	1	0	0	0	0	1	0	HSX	—
				9979	-30	-52	171	6	3	3	1	3	3	0	0	DSC	—
				9978	-19	-36	187	6	2	1	1	5	1	0	0	DAI	—
				9973	-17	-12	211	31	8	9	1	22	9	0	0	FKC	—
				9975	+22	-08	215	2	1	1	1	1	1	0	0	CSO	—
				9974	+18	-08	215	3	0	3	1	0	3	0	0	BXI	—
				9980	-29	+03	226	3	0	3	1	0	3	0	0	BXI	—
				9972	-20	+09	232	4	2	2	1	2	2	0	0	DSI	—
				9970	+06	+38	261	2	2	0	1	2	0	0	0	DSO	—
				9977	-21	+65	288	5	1	3	1	2	3	0	0	CAI	—



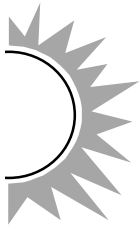
REGION CO-ORDINATES AND CLASSIFICATIONS FOR  
**JUNE 2002 continued.**

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks		
4102	2002 / 06 / 03	2135	209.7	9982	-02	-64	146	1	0	1	0	0	0	0	1	AXX	big		
				9983	+24	-59	151	1	0	1	0	0	0	0	0	1	AXX	big	
				9981	-22	-58	152	1	1	0	0	0	0	0	0	1	0	HSX	—
				9985	+17	-44	166	3	0	3	1	0	3	0	0	0	0	BXI	—
				9979	-28	-38	172	5	3	2	1	3	2	0	0	0	0	DSC	—
				9978	-20	-23	187	14	4	5	1	9	5	0	0	0	0	DAC	—
				9973	-16	+01	211	27	4	9	1	18	9	0	0	0	0	EKC	—
				9975	+21	+05	215	6	2	3	1	3	3	0	0	0	0	DAI	—
				9974	+15	+07	217	2	1	1	1	1	1	0	0	0	0	CSO	—
				9980	-20	+19	229	2	0	2	1	0	2	0	0	0	0	BXO	—
				9972	-21	+21	231	1	0	1	0	0	0	0	0	0	1	AXX	—
				9970	+06	+51	261	2	2	0	1	2	0	0	0	0	0	DSO	—
				9977	-20	+77	287	1	1	0	0	0	0	0	0	1	0	HSX	—
4103	2002 / 06 / 05	2225	182.8	9986	+04	-59	124	1	1	0	0	0	0	1	0	HSX	—		
				9982	-04	-38	145	2	0	2	1	0	2	0	0	0	BXO	—	
				9983	+24	-31	152	1	1	0	0	0	0	0	1	0	HSX	—	
				9981	-22	-31	152	1	1	0	0	0	0	0	1	0	HSX	—	
				9985	+18	-18	165	9	3	4	1	5	4	0	0	0	DAC	—	
				9979	-30	-12	171	5	1	3	1	2	3	0	0	0	CAI	—	
				9978	-20	+05	188	11	4	5	1	6	5	0	0	0	DAC	—	
				9973	-16	+28	211	15	5	4	1	11	4	0	0	0	EHC	—	
				9975	+22	+31	214	6	1	4	1	2	4	0	0	0	CAI	—	
4104	2002 / 06 / 06	2250	169.3	9991	-22	-82	087	1	1	0	0	0	0	1	0	HHX	—		
				9986	+03	-45	124	1	1	0	0	0	0	0	1	0	HSX	—	
				9987	-16	-25	144	10	4	4	1	6	4	0	0	0	DAC	—	
				9983	+24	-18	151	1	1	0	0	0	0	0	1	0	HSX	—	
				9981	-22	-18	151	1	1	0	0	0	0	0	1	0	HSX	—	
				9988	-14	-05	164	1	0	1	0	0	0	0	0	1	AXX	—	
				9985	+17	-03	166	14	3	9	1	5	9	0	0	0	DAC	—	
				9979	-29	+01	170	2	1	1	1	1	1	0	0	0	CSO	—	
				9989	-33	+17	186	3	2	0	1	3	0	0	0	0	DAO	tight	
				9978	-21	+19	188	9	2	4	1	5	4	0	0	0	DAI	—	
				9973	-15	+42	211	11	4	3	1	8	3	0	0	0	EHC	—	
				9975	+22	+44	213	3	1	1	1	2	1	0	0	0	CAO	—	



OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks		
4105	2002 / 06 / 07	2235	156.2	9991	-22	-70	086	1	1	0	0	0	0	1	0	HHX	—		
				9986	+03	-32	124	1	1	0	0	0	0	0	1	0	HSX	—	
				9990	-23	-20	136	3	2	1	1	2	1	0	0	0	DSI	small	
				9987	-16	-12	144	15	5	6	1	9	6	0	0	0	DAC	—	
				9983	+24	-04	152	1	1	0	0	0	0	1	0	0	HSX	small	
				9981	-22	-04	152	1	1	0	0	0	0	1	0	0	HSX	—	
				9985	+18	+10	166	12	4	6	1	6	6	0	0	0	DAC	—	
				9979	-28	+14	170	1	0	1	0	0	0	0	0	1	AXX	small	
				9989	-33	+30	186	5	1	4	1	1	4	0	0	0	0	CSI	—
				9978	-21	+32	188	7	3	2	1	5	2	0	0	0	0	DAC	—
				9973	-15	+55	211	8	4	2	1	6	2	0	0	0	0	EHC	—
				9975	+23	+57	213	1	1	0	0	0	0	0	1	0	0	HSX	—
4106	2002 / 06 / 15	2115	51.0	0003	+00	-65	346	2	0	2	1	0	2	0	0	BXO	—		
				0001	+20	-60	351	5	2	1	1	4	1	0	0	0	DAI	—	
				0000	+18	-38	013	9	3	4	1	5	4	0	0	0	DAC	—	
				0004	-16	-12	039	5	2	1	1	4	1	0	0	0	DAI	—	
				9991	-21	+32	083	1	1	0	0	0	0	1	0	0	HHX	—	
				9999	-05	+73	124	1	0	1	0	0	0	0	0	1	AXX	—	
4107	2002 / 06 / 22	2115	318.4	0011	-12	-64	254	3	2	1	1	2	1	0	0	DSI	small		
				0008	-09	-28	290	9	3	4	1	5	4	0	0	0	DHC	—	
				0005	+13	-02	316	3	2	0	1	3	0	0	0	0	DSO	—	
				0010	-12	-02	316	3	0	3	1	0	3	0	0	0	BXI	—	
				0001	+21	+33	351	1	1	0	0	0	0	1	0	0	HSX	—	
4108	2002 / 06 / 23	2135	305.0	0011	-12	-51	254	5	3	2	1	3	2	0	0	DSI	—		
				0012	+19	-22	283	1	0	1	0	0	0	0	1	AXX	—		
				0008	-09	-15	290	11	3	3	1	8	3	0	0	0	DKC	—	
				0005E *	+14	+03	308	3	0	3	1	0	3	0	0	0	BXI	—	
				0010	-12	+11	316	1	0	1	0	0	0	0	1	AXX	—		
				0005	+13	+14	319	4	2	2	1	2	2	0	0	0	DSI	—	
				0001	+21	+46	351	1	1	0	0	0	0	1	0	0	HSX	—	

\* GDSO designation



## Georgi Dobrovolski Solar Observatory

### REGION CO-ORDINATES AND CLASSIFICATIONS FOR

### JUNE 2002 continued.

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks
4109	2002 / 06 / 24	2055	292.1	0015	-27	-41	251	3	2	1	1	2	1	0	0	DSI	small
				0011	-12	-37	255	8	3	2	1	6	2	0	0	DAC	—
				0013	+04	+04	296	3	1	2	1	1	2	0	0	CSI	—
				0008	-10	-01	291	14	3	6	1	8	6	0	0	DKC	—
				0005	+14	+27	319	7	2	5	1	2	5	0	0	DSI	—
				0001	+20	+59	351	1	1	0	0	0	0	0	1	0	HSX
4110	2002 / 06 / 25	2100	278.8	0016	-15	-73	206	1	1	0	0	0	0	1	0	HSX	—
				0015	-27	-28	251	2	0	2	1	0	2	0	0	BXO	big
				0011	-12	-25	254	8	4	0	1	8	0	0	0	DAC	—
				0008	-11	+13	292	9	2	6	1	3	6	0	0	DKI	—
				0005	+11	+42	321	2	1	1	1	1	1	0	0	CSO	—
				0001	+20	+73	352	1	1	0	0	0	0	0	1	0	HSX
4111	2002 / 06 / 28	2055	239.1	0016	-16	-33	206	3	1	2	1	1	2	0	0	CSI	—
				?	-14	-17	222	1	0	1	0	0	0	0	1	AXX	—
				0017	-19	-04	235	6	2	2	1	4	2	0	0	DAI	—
				0011	-11	+14	253	3	1	2	1	1	2	0	0	CSI	small
				0011W *	-10	+19	258	2	0	2	1	0	2	0	0	BXO	—
				0008	-10	+54	293	2	1	0	1	2	0	0	0	0	HKX
0005	+13	+82	321	1	1	0	0	0	0	0	1	0	HSX	—			
4112	2002 / 06 / 30	2130	212.3	0019	-18	-62	150	12	3	3	1	9	3	0	0	EKC	—
				0016	-15	-05	207	2	1	1	1	1	1	0	0	CSO	—
				0017	-19	+22	234	14	5	6	1	8	6	0	0	DAC	—
				0018	+14	+81	293	3	2	1	1	2	1	0	0	DSI	—
				0008	-10	+82	294	1	1	0	0	0	0	0	1	0	HHX

\* GDSO designation



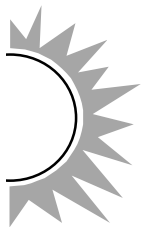
# Georgi Dobrovolski Solar Observatory

## REGION CO-ORDINATES AND CLASSIFICATIONS FOR

### JULY 2002

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
4113	2002/07/01	2130	199.1	0019	-18	-51	148	9	4	3	1	6	3	0	0	DKC	—
				0016	-16	+09	208	2	1	1	1	1	1	0	0	CSO	—
				?	-18	+18	217	1	0	1	0	0	0	0	1	AXX	—
				0017	-19	+36	235	9	3	4	1	5	4	0	0	DAC	—
				0011	-10	+66	265	3	2	0	1	3	0	0	0	DSO	—
4114	2002/07/02	2050	186.2	0019	-18	-35	151	11	4	4	1	7	4	0	0	DAC	—
				0016	-15	+21	207	2	1	1	1	1	1	0	0	CSO	—
				0017	-18	+50	236	12	3	3	1	9	3	0	0	DKC	—
				0011	-12	+76	262	4	2	1	1	3	1	0	0	DAI	—
4115	2002/07/04	2240	158.8	0025	-18	-76	083	1	1	0	0	0	0	1	0	HSX	—
				0024	-33	-51	108	7	3	3	1	4	3	0	0	DAC	—
				0022	-20	-21	138	5	2	2	1	3	2	0	0	DAI	—
				0019	-17	-08	151	16	5	8	1	8	8	0	0	EAC	—
				0021	-29	+07	166	6	3	2	1	4	2	0	0	DAC	—
				0016	-17	+47	206	2	1	1	1	1	1	0	0	CSO	—
				0017	-18	+75	234	6	3	1	1	5	1	0	0	DAC	—
4116	2002/07/05	2120	146.3	0025	-19	-65	081	2	1	1	1	1	1	0	0	CSO	—
				0024	-33	-39	107	8	2	2	1	6	2	0	0	DAI	—
				0023	-22	-32	114	1	0	1	0	0	0	0	1	AXX	—
				0022	-20	-07	139	3	1	2	1	1	2	0	0	CSI	—
				0019	-18	+06	152	10	4	4	1	6	4	0	0	EAC	—
				0021	-29	+19	165	9	4	3	1	6	3	0	0	DAC	—
				0026	+24	+56	202	2	1	1	1	1	1	0	0	CSO	small
				0016	-17	+61	207	1	1	0	0	0	0	1	0	HSX	—
4117	2002/07/09	2125	93.3	0030	+18	-76	017	3	1	0	1	3	0	0	0	HKX	—
				0029	-15	-40	053	3	2	0	1	3	0	0	0	DAO	—
				0028	-16	-28	065	1	0	1	0	0	0	0	1	AXX	—
				0025	-20	-11	082	1	1	0	0	0	0	1	0	HSX	—
				0024	-34	+12	105	7	2	3	1	4	3	0	0	DAI	—
				0023	-22	+24	117	1	0	1	0	0	0	0	1	AXX	small
				0019	-18	+55	148	6	2	3	1	3	3	0	0	DSC	—



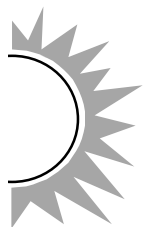
## Georgi Dobrovolski Solar Observatory

### REGION CO-ORDINATES AND CLASSIFICATIONS FOR

### JULY 2002 *continued.*

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks
4118	2002/07/12	2205	53.2	0030	+19	-38	015	31	7	9	1	22	9	0	0	FAC	—
				0029	-14	-00	053	2	1	1	1	1	1	0	0	CSO	—
				0025	-20	+28	081	1	1	0	0	0	0	1	0	HSX	—
4119	2002/07/13	2055	40.6	0030	+19	-26	015	42	11	14	1	28	14	0	0	FKC	—
				0029	-14	+12	053	2	1	1	1	1	1	0	0	CSO	—
				0025	-20	+40	081	1	1	0	0	0	0	1	0	HSX	—
4120	2002/07/14	2125	27.1	0031	+10	-25	002	1	0	1	0	0	0	0	1	AXX	small
				0030	+19	-14	013	58	14	18	1	40	18	0	0	FKC	—
				0034	-20	-07	020	3	0	3	1	0	3	0	0	BXI	—
				?	+31	-05	032	1	0	1	0	0	0	0	1	AXX	—
				0029	-14	+26	053	3	1	1	1	2	1	0	0	CAO	—
				0028	-16	+39	066	3	0	3	1	0	3	0	0	BXI	—
				0025	-20	+54	081	1	1	0	0	0	0	1	0	HSX	—
4121	2002/07/15	2110	14.0	0036	-07	-78	296	3	2	0	1	3	0	0	0	DAO	—
				0035	-09	-65	309	1	0	1	0	0	0	0	1	AXX	big
				0031	+09	-13	001	1	0	1	0	0	0	0	1	AXX	small
				0030	+18	-02	012	55	11	14	1	41	14	0	0	FKC	—
				?	+12	+11	025	1	0	1	0	0	0	0	1	AXX	—
				0034	-20	+07	021	1	0	1	0	0	0	0	1	AXX	—
				0033	+08	+24	038	3	1	2	1	1	2	0	0	CSI	—
				0028	-16	+57	071	2	0	2	1	0	2	0	0	BXO	—
0025	-19	+69	083	1	0	1	0	0	0	0	1	AXX	—				
4122	2002/07/17	2125	347.4	0037	+16	-62	285	2	1	0	1	2	0	0	0	HAX	big
				0036	-07	-52	295	22	5	4	1	18	4	0	0	EKC	—
				?	-13	-50	297	1	0	1	0	0	0	0	1	AXX	—
				0035	-08	-36	311	1	0	1	0	0	0	0	1	AXX	—
				0031	+12	+12	359	1	0	1	0	0	0	0	1	AXX	small
				0030	+19	+24	011	78	13	23	1	55	23	0	0	FKC	—





## Georgi Dobrovolski Solar Observatory

### REGION CO-ORDINATES AND CLASSIFICATIONS FOR

### JULY 2002 *continued.*

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks	
4123	2002 / 07 / 18	2120	334.2	0037	+14	-48	286	1	1	0	0	0	0	1	0	HHX	—	
				0036	-07	-38	296	25	6	5	1	20	5	0	0	EKC	—	
				0035	-08	-23	311	11	3	7	1	4	7	0	0	DAC	very small	
				0031	+12	+25	359	1	0	1	0	0	0	0	0	1	AXX	small
				0030	+18	+37	011	63	10	22	1	41	22	0	0	0	FKC	—
				?	+11	+44	018	1	0	1	0	0	0	0	0	1	AXX	—
4124	2002 / 07 / 23	2100	268.3	0039	-15	-60	208	27	4	5	1	22	5	0	0	FKC	large	
				0044	-19	-58	210	5	2	2	1	3	2	0	0	DAI	—	
				0043	+12	-57	211	3	2	0	1	3	0	0	0	DSO	—	
				0045	+04	-32	236	2	1	1	1	1	1	0	0	CSO	—	
				0042	-19	-27	241	2	0	2	1	0	2	0	0	BXO	—	
				0038	+16	-25	243	8	2	3	1	5	3	0	0	DAI	—	
				0041	+17	-05	263	2	1	1	1	1	1	0	0	CSO	—	
				0040	-22	+13	281	1	0	1	0	0	0	0	0	1	AXX	—
				0037	+15	+18	286	1	1	0	0	0	0	1	0	0	HRX	—
				0036	-07	+27	295	41	6	5	1	36	5	0	0	0	FKC	—
				0035	-09	+45	313	6	3	3	1	3	3	0	0	0	ESC	small
				4125	2002 / 07 / 24	2140	254.7	0039	-15	-50	205	35	5	9	1	26	9	0
0044	-20	-45	210					11	3	4	1	7	4	0	0	DAC	—	
0043	+12	-43	212					12	4	5	1	7	5	0	0	DAC	—	
0046	+14	-24	231					1	1	0	0	0	0	1	0	HSX	—	
0045	+04	-19	236					1	1	0	0	0	0	1	0	HSX	—	
0042	-20	-16	239					7	1	4	1	3	4	0	0	CAI	—	
0038	+17	-14	241					3	1	1	1	2	1	0	0	CAO	—	
0037	+14	+30	285					2	1	0	1	2	0	0	0	HAX	big	
0036	-07	+40	295					28	10	11	1	17	11	0	0	0	FKC	—
0035	-09	+57	312					4	1	3	1	1	3	0	0	0	CSI	small

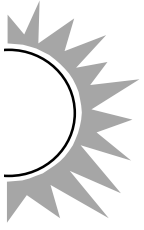


## Georgi Dobrovolski Solar Observatory

### REGION CO-ORDINATES AND CLASSIFICATIONS FOR

### JULY 2002 *continued.*

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks	
4126	2002 / 07 / 25	2130	241.5	0039	-16	-36	206	46	7	10	1	36	10	0	0	FKC	—	
				0044	-21	-32	210	24	7	6	1	18	6	0	0	EAC	—	
				0043	+12	-30	212	17	4	5	1	12	5	0	0	DAC	—	
				0046	+15	-11	231	1	0	1	0	0	0	0	0	1	AXX	—
				0045	+04	-05	237	11	4	3	1	8	3	0	0	0	DAC	—
				0038	+16	-01	241	4	1	2	1	2	2	0	0	0	CAI	—
				0042	-20	+00	242	3	1	1	1	2	1	0	0	0	CAO	—
				0037	+14	+43	285	5	2	2	1	3	2	0	0	0	DAI	—
				0047	+07	+46	288	2	2	0	1	2	0	0	0	0	DSO	—
				0036	-07	+52	294	21	5	9	1	12	9	0	0	0	FKC	—
4127	2002 / 07 / 28	2045	202.3	0054	-21	-72	130	2	2	0	1	2	0	0	0	DSO	—	
				0051	-16	-56	146	1	1	0	0	0	0	1	0	HSX	—	
				0048	+21	-27	175	9	3	5	1	4	5	0	0	DAC	small	
				0052	+09	-19	183	2	1	1	1	1	1	0	0	0	CSO	—
				0050	-07	-11	191	23	5	8	1	15	8	0	0	0	DKC	—
				0039	-15	+02	204	47	6	12	1	35	12	0	0	0	FKC	—
				0044	-21	+09	211	42	8	11	1	31	11	0	0	0	FAC	—
				0043	+12	+11	213	25	6	12	1	13	12	0	0	0	EAC	—
				0045	+05	+37	239	13	3	8	1	5	8	0	0	0	DAC	—
0037	+13	+85	287	1	1	0	0	0	0	0	1	0	HHX	—				
4128	2002 / 07 / 29	2110	188.8	0055	+14	-77	112	2	1	0	1	2	0	0	0	HAX	—	
				0054	-22	-57	132	2	2	0	1	2	0	0	0	0	DSO	—
				0051	-17	-42	147	1	1	0	0	0	0	1	0	0	HSX	—
				0048	+20	+14	175	5	1	4	1	1	4	0	0	0	CSI	—
				0053	-17	-14	175	4	1	3	1	1	3	0	0	0	CSI	—
				0050	-07	+04	193	39	6	8	1	31	8	0	0	0	FKC	—
				0039	-15	+16	205	52	8	13	1	39	13	0	0	0	FKC	—
				0044	-21	+22	211	48	10	12	1	36	12	0	0	0	FAC	—
				0043	+12	+24	213	18	4	7	1	11	7	0	0	0	EAC	—
				0045	+06	+51	240	1	0	1	0	0	0	0	0	1	AXX	—
0038	+18	+53	242	2	1	1	1	1	1	0	0	0	CSO	—				



## Georgi Dobrovolski Solar Observatory

### REGION CO-ORDINATES AND CLASSIFICATIONS FOR

### JULY 2002 *continued.*

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks	
4129	2002/07/30	2110	175.6	0055	+14	-67	109	3	1	1	1	2	1	0	0	CAO	—	
				0054	-22	-45	131	1	1	0	0	0	0	0	1	0	HSX	—
				0051	-16	-31	145	1	1	0	0	0	0	0	1	0	HSX	—
				?	+16	-28	148	1	0	1	0	0	0	0	0	1	AXX	—
				0048	+21	-03	173	1	0	1	0	0	0	0	0	1	AXX	big
				0050	-08	+16	192	30	5	9	1	21	9	0	0	0	FKC	—
				?	+07	+25	201	1	1	0	0	0	0	0	1	0	HSX	small
				0039	-14	+27	203	38	8	10	1	28	10	0	0	0	FKC	—
				0043	+12	+36	212	13	3	7	1	6	7	0	0	0	EAC	—
0044	-20	+30	206	35	6	12	1	23	12	0	0	0	FKC	—				
4130	2002/07/31	2100	162.4	0055	+14	-53	109	3	1	1	1	2	1	0	0	CAO	—	
				0056	+04	-51	111	2	1	1	1	1	1	1	0	0	CSO	close
				0054	-22	-29	133	1	1	0	0	0	0	0	1	0	HSX	small
				0051	-17	-17	145	1	1	0	0	0	0	0	1	0	HSX	—
				0057	-08	-17	145	5	0	5	1	0	5	0	0	0	BXI	—
				0053	-17	+13	175	1	0	1	0	0	0	0	0	1	AXX	—
				0050	-08	+30	192	34	6	5	1	29	5	0	0	0	FKC	—
				0039	-15	+42	204	30	7	10	1	20	10	0	0	0	FAC	—
				0044	-21	+47	209	29	5	5	1	24	5	0	0	0	FKC	—
0043	+12	+51	213	4	1	2	1	2	2	0	0	0	CAI	—				

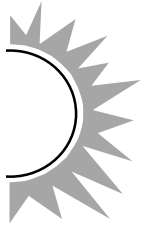


# Georgi Dobrovolski Solar Observatory

## REGION CO-ORDINATES AND CLASSIFICATIONS FOR AUGUST 2002

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	
4131	2002/08/02	2055	136.0	0059	+14	-69	067	3	1	2	1	1	2	0	0	CSI	—	
				0058	-07	-59	077	1	0	1	0	0	0	0	0	1	AXX	big
				0055	+15	-28	108	5	2	2	1	3	2	0	0	0	DAI	—
				0057	-08	+08	144	18	6	9	1	9	9	0	0	0	DAC	small
				0051	-16	+10	146	1	1	0	0	0	0	1	0	0	HSX	—
				0054	-22	-01	135	2	0	2	1	0	2	0	0	0	BXO	—
				0050	-08	+57	193	17	5	4	1	13	4	0	0	0	FHC	—
				0039	-15	+68	204	14	4	3	1	11	3	0	0	0	FAC	—
0044	-21	+74	210	9	3	3	1	6	3	0	0	0	FKC	—				
4132	2002/08/06	2125	82.9	0063	+15	-81	006	2	2	0	1	2	0	0	0	ESO	—	
				0061	+08	-47	040	15	3	8	1	7	8	0	0	0	DAC	—
				?	+03	-33	054	2	0	2	1	0	2	0	0	0	BXO	—
				0059	+13	-20	067	5	2	2	1	3	2	0	0	0	DAI	—
				0058	-06	-09	078	8	3	2	1	6	2	0	0	0	DAC	—
				?	-15	+02	089	2	0	2	1	0	2	0	0	0	BXO	small
				0055	+14	+23	110	3	1	1	1	2	1	0	0	0	CAO	—
				0051	-14	+59	146	1	1	0	0	0	0	1	0	0	HSX	—
0057	-07	+60	147	13	4	5	1	8	5	0	0	0	FAC	—				
4133	2002/08/07	2120	69.7	0063	+17	-69	001	4	2	0	1	4	0	0	0	EAO	—	
				0061	+09	-30	040	23	5	8	1	15	8	0	0	0	EAC	—
				0064	-20	-16	054	2	1	0	1	2	0	0	0	0	HAX	—
				0059	+13	-03	067	3	1	2	1	1	2	0	0	0	CSI	—
				0058	-06	+05	075	4	2	2	1	2	2	0	0	0	DSI	—
				0055	+12	+41	111	1	0	1	0	0	0	0	0	1	AXX	—
				0051	-16	+74	144	1	1	0	0	0	0	1	0	0	HSX	—
				0057	-08	+76	146	2	2	0	1	2	0	0	0	0	ESO	—

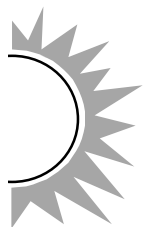


# Georgi Dobrovolski Solar Observatory

## REGION CO-ORDINATES AND CLASSIFICATIONS FOR

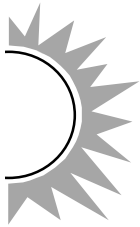
### AUGUST 2002 continued.

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks
4134	2002/08/09	2125	43.2	0063	+17	-40	003	8	2	5	1	3	5	0	0	EAI	small
				0061	+08	-02	041	17	5	10	1	7	10	0	0	EAC	small
				0059	+14	+24	067	2	0	2	1	0	2	0	0	BXO	—
				0058	-07	+33	076	10	2	5	1	5	5	0	0	DAI	—
4135	2002/08/14	2120	337.1	0080	+16	-71	266	4	2	1	1	3	1	0	0	DAI	—
				0079	-20	-57	280	2	1	1	1	1	1	0	0	CSO	—
				?	-15	-54	283	1	0	1	0	0	0	0	1	AXX	—
				0076	+12	-53	284	1	1	0	0	0	0	1	0	HSX	—
				0069	-08	-39	298	33	3	6	1	27	6	0	0	EKC	—
				0068	-08	-23	314	4	2	1	1	3	1	0	0	EAO	class correct
				0067	+11	-22	315	30	5	13	1	17	13	0	0	EAC	—
				0075	-12	-06	331	4	2	0	1	4	0	0	0	DAO	—
				0066	+13	-05	332	13	4	4	1	9	4	0	0	DAC	—
				0078	-13	+10	347	6	2	1	1	5	1	0	0	DAI	—
				?	+11	+22	359	1	0	1	0	0	0	0	1	AXX	—
				0063	+18	+24	001	6	2	3	1	3	3	0	0	DAI	—
				0072	-17	+58	035	4	2	2	1	2	2	0	0	DAO	—
				0061	+08	+67	044	1	1	0	0	0	0	1	0	HSX	—
4136	2002/08/15	2110	324.0	0081	+17	-75	249	1	0	1	0	0	0	0	1	AXX	—
				0080	+16	-58	266	7	3	2	1	5	2	0	0	EAC	—
				0079	-19	-45	279	9	3	5	1	4	5	0	0	DAC	—
				0076	+12	-41	283	1	1	0	0	0	0	1	0	HSX	—
				0069	-07	-27	297	39	5	7	1	32	7	0	0	EKC	old 0036
				0067	+12	-10	314	24	8	7	1	17	7	0	0	EAC	small
				0068	-07	-10	314	2	2	0	1	2	0	0	0	ESO	—
				0066	+14	+07	331	14	4	5	1	9	5	0	0	DAC	—
				0075	-11	+08	332	2	0	2	1	0	2	0	0	BXO	—
				0078	-13	+23	347	6	2	3	1	3	3	0	0	DAI	—
				0063	+17	+36	360	4	2	2	1	2	2	0	0	DSI	—
				0072	-18	+75	039	4	2	0	1	4	0	0	0	DAO	—
				0061	+06	+82	046	1	1	0	0	0	0	1	0	HSX	—



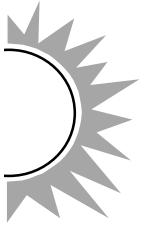
REGION CO-ORDINATES AND CLASSIFICATIONS FOR  
AUGUST 2002 continued.

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks	
4137	2002/08/16	2120	310.7	0081	+17	-64	247	1	1	0	0	0	0	1	0	HSX	—	
				0080	+16	-45	266	8	3	3	1	5	3	0	0	0	EAC	—
				0079	-19	-32	279	13	4	4	1	9	4	0	0	0	EAC	short
				0076	+12	-28	283	1	1	0	0	0	0	1	0	0	HSX	—
				0082	+21	-22	289	2	0	2	1	0	2	0	0	0	BXO	—
				0069	-07	-14	297	43	3	6	1	37	6	0	0	0	EKC	old 0036
				0067	+12	+03	314	29	4	13	1	16	13	0	0	0	EAC	—
				0068	-07	+03	314	4	2	2	1	2	2	0	0	0	ESO	—
				0066	+14	+20	331	16	4	5	1	11	5	0	0	0	DAC	—
				0078	-13	+36	347	2	2	0	1	2	0	0	0	0	DSO	—
				0063	+17	+48	359	2	1	1	1	1	1	0	0	0	CSO	—
4138	2002/08/17	2130	297.4	0084	-16	-79	218	1	1	0	0	0	0	1	0	HSX	—	
				0083	-18	-69	228	3	1	2	1	1	2	0	0	0	CSI	—
				0081	+17	-49	248	4	1	3	1	1	3	0	0	0	CSI	—
				0080	+16	-32	265	10	3	4	1	6	4	0	0	0	DAC	—
				?	-12	-25	272	2	0	2	1	0	2	0	0	0	BXO	—
				0079	-21	-20	277	28	9	8	1	20	8	0	0	0	EAC	—
				0076	+12	-13	284	1	1	0	0	0	0	1	0	0	HSX	—
				0082	+21	-08	289	2	1	0	1	2	0	0	0	0	HAX	small
				0069	-07	+01	298	58	3	9	1	49	9	0	0	0	EKC	old 0036
				0067	+12	+18	315	19	5	8	1	11	8	0	0	0	EAC	—
				0068	-08	+18	315	3	1	2	1	1	2	0	0	0	CSI	—
				0066	+13	+34	331	8	4	4	1	4	4	0	0	0	DSC	small
				0078	-14	+51	348	1	0	1	0	0	0	0	0	1	AXX	—
				0063	+18	+60	357	1	1	0	0	0	0	0	1	0	HSX	—
4139	2002/08/18	2100	284.5	0085	-11	-82	202	1	1	0	0	0	0	1	0	HHX	—	
				0084	-16	-66	218	1	1	0	0	0	0	1	0	0	HSX	—
				0083	-18	-54	230	2	1	1	1	1	1	0	0	0	CSO	—
				0080	+16	-19	265	10	2	6	1	4	6	0	0	0	DAI	—
				0079	-22	-06	278	26	6	9	1	17	9	0	0	0	EAC	—
				0076	+12	-00	284	3	1	2	1	1	2	0	0	0	CSI	—
				0082	+20	+05	289	2	0	2	1	0	2	0	0	0	BXO	—
				0069	-08	+16	300	56	5	10	1	46	10	0	0	0	EKC	old 0036
				0067	+12	+32	316	12	3	9	1	3	9	0	0	0	ESC	—
				0068	-08	+37	321	1	0	1	0	0	0	0	0	1	AXX	—
				0066	+14	+46	330	5	2	2	1	3	2	0	0	0	CAI	—
				0063	+18	+73	357	1	1	0	0	0	0	0	1	0	HSX	—



REGION CO-ORDINATES AND CLASSIFICATIONS FOR  
AUGUST 2002 continued.

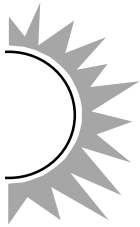
OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks			
4140	2002 / 08 / 20	2125	257.8	0085	-11	-58	200	1	1	0	0	0	0	1	0	HHX	—			
				0084	-17	-41	217	2	1	1	1	1	1	1	0	0	CAO	class correct		
				?	-10	-40	218	1	0	1	0	0	0	0	0	1	AXX	—		
				0083	-17	-27	231	4	1	3	1	1	3	1	3	0	0	CSI	—	
				0080	+16	+08	266	12	2	7	1	5	7	1	7	0	0	DAI	—	
				0079	-22	+20	278	23	7	11	1	12	11	1	11	0	0	EAC	—	
				0076	+13	+27	285	1	0	1	0	0	0	0	0	0	1	AXX	—	
				0069	-08	+42	300	48	3	5	1	43	5	1	43	5	0	0	EKC	—
				0067	+10	+60	318	6	3	2	1	4	2	1	4	2	0	0	DAC	—
4141	2002 / 08 / 21	2055	244.8	0085	-11	-45	200	3	1	2	1	1	2	0	0	CHI	—			
				0086	-21	-45	200	1	0	1	0	0	0	0	0	1	AXX	—		
				?	-11	-30	215	3	0	3	1	0	3	1	0	0	BXI	—		
				0084	-16	-29	216	2	1	1	1	1	1	1	1	0	0	CSO	—	
				0083	-18	-14	231	12	4	6	1	6	6	1	6	6	0	0	DAC	small
				?	+29	+08	253	1	0	1	0	0	0	0	0	0	1	AXX	small	
				0080	+15	+20	265	9	2	5	1	4	5	1	4	5	0	0	DAI	—
				?	+07	+26	271	2	0	2	1	0	2	1	0	2	0	0	BXO	—
				0079	-22	+32	277	13	3	7	1	6	7	1	6	7	0	0	EAC	small
				0069	-08	+55	300	28	3	4	1	24	4	1	24	4	0	0	EKC	—
0067	+11	+70	315	6	3	1	1	5	1	1	5	1	0	0	EAC	—				
4142	2002 / 08 / 22	2045	231.7	0087	-07	-77	155	3	1	2	1	1	2	0	0	CHI	—			
				0085	-10	-32	200	12	1	8	1	4	8	1	4	8	0	0	CKI	—
				0084	-17	-15	217	13	2	9	1	4	9	1	4	9	0	0	DAI	small
				0083	-18	+00	232	20	3	10	1	10	10	1	10	10	0	0	DAC	—
				0080	+15	+30	262	1	0	1	0	0	0	0	0	0	1	AXX	—	
				0079	-21	+49	281	6	2	2	1	4	2	1	4	2	0	0	DAI	—
				0069	-07	+68	300	15	3	2	1	13	2	1	13	2	0	0	EKC	—
				0067	+10	+81	313	1	1	0	0	0	0	0	0	0	1	0	HSX	—



REGION CO-ORDINATES AND CLASSIFICATIONS FOR  
AUGUST 2002 continued.

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks
4143	2002/08/24	2135	204.8	0087	-07	-49	156	9	2	6	1	3	6	0	0	DKI	—
				0085	-09	-05	200	4	1	3	1	1	3	0	0	CHI	—
				?	+11	+06	211	1	0	1	0	0	0	0	1	AXX	—
				0084	-16	+10	215	8	3	5	1	3	5	0	0	DAC	—
				0083	-18	+25	230	18	3	13	1	5	13	0	0	EAC	—
				0088	-22	+39	244	17	4	7	1	10	7	0	0	DAC	—
				0069	+08	+83	288	1	1	0	0	0	0	0	1	0	HHX
4144	2002/08/26	2045	178.9	0090	-03	-51	128	1	0	1	0	0	0	0	1	AXX	big
				0087	-08	-24	155	10	1	2	1	8	2	0	0	CKI	—
				0085	-09	+16	195	13	3	5	1	8	5	0	0	DKC	—
				0084	-17	+36	215	3	2	1	1	2	1	0	0	DSI	—
				0083	-19	+53	232	2	1	1	1	1	1	0	0	CRO	—
				0088	-23	+65	244	6	2	1	1	5	1	0	0	DAI	—
4145	2002/08/27	2105	165.5	0093	-17	-42	123	1	0	1	0	0	0	0	1	AXX	—
				0090	-04	-35	130	1	1	0	0	0	0	1	0	HSX	small
				0087	-08	-08	157	18	2	6	1	12	6	0	0	DKI	—
				0092	-19	-06	159	1	0	1	0	0	0	0	1	AXX	—
				?	+04	+13	178	1	0	1	0	0	0	0	1	AXX	—
				0085	-08	+35	200	8	3	3	1	5	3	0	0	DHC	—
				0084	-17	+51	216	5	2	2	1	3	2	0	0	DAI	—
0083	-18	+69	234	1	1	0	0	0	0	0	1	0	HSX	—			
4146	2002/08/28	2030	152.6	0093	-16	-29	124	1	0	1	0	0	0	0	1	AXX	—
				0090	-04	-23	130	4	2	1	1	3	1	0	0	DSI	—
				0087	-08	+04	157	16	4	6	1	10	6	0	0	DAC	—
				0092	-19	+06	159	3	1	1	1	2	1	0	0	CAO	—
				0085	-08	+47	200	6	3	2	1	4	2	0	0	DHC	—
				0084	-17	+63	216	1	0	1	0	0	0	0	0	1	AXX





## Georgi Dobrovolski Solar Observatory

### REGION CO-ORDINATES AND CLASSIFICATIONS FOR

### AUGUST 2002 continued.

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grp	grf	efp	ef	Class.	Remarks
4147	2002/08/30	2045	126.0	0096	-14	-77	049	2	2	0	1	2	0	0	0	DSO	—
				0095	+07	-67	059	23	6	9	1	14	9	0	0	FAC	—
				0094	-17	-56	070	9	2	4	1	5	4	0	0	DAI	—
				0090	-04	+04	130	8	3	4	1	4	4	0	0	DAC	—
				0087	-08	+31	157	26	7	8	1	18	8	0	0	DAC	—
				0092	-19	+33	159	2	1	1	1	1	1	0	0	CSO	—
				0085	-08	+74	200	2	1	1	1	1	1	0	0	CHO	—
4148	2002/08/31	2040	112.9	0098	-10	-79	034	1	1	0	0	0	0	1	0	HSX	—
				0096	-14	-64	049	3	2	0	1	3	0	0	0	DAO	—
				0095	+07	-54	059	29	7	5	1	24	5	0	0	FAC	—
				0094	-17	-43	070	7	2	3	1	4	3	0	0	DAI	—
				0097	+13	-39	074	3	1	2	1	1	2	0	0	CSI	—
				0090	-04	+17	130	9	2	7	1	2	7	0	0	DSI	—
				0087	-08	+44	157	23	3	2	1	21	2	0	0	DAC	—

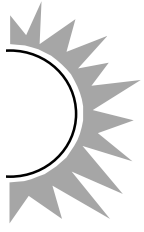


# Georgi Dobrovolski Solar Observatory

## REGION CO-ORDINATES AND CLASSIFICATIONS FOR SEPTEMBER 2002

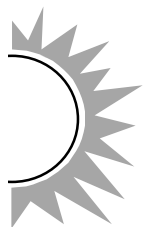
All observations carried out by HOWARD BARNES .  
 Telescope : 76 mm refractor ( f . l . 910 mm ) .  
 Observed by PROJECTION . Full disc diameter = 145 mm approx .  
 CM is stated in degrees .  
 Region Numbers are NOAA/SEC Numbers .  
 B = Heliographic Latitude ( + if NORTH , - if SOUTH ) .  
 CMD = 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	
4149	2002 / 09 / 01	2055	99.5	0102	+09	-81	019	1	1	0	0	0	0	1	0	HSX	—	
				0101	+03	-74	026	1	1	0	0	0	0	0	1	0	HSX	—
				0100	-20	-70	030	3	2	1	1	2	1	0	0	0	DSI	—
				0098	-12	-68	032	1	1	0	0	0	0	0	1	0	HSX	—
				0096	-15	-53	047	7	2	3	1	4	3	0	0	0	DAI	—
				0095	+08	-41	059	43	8	12	1	31	12	0	0	0	FKC	—
				0099	-03	-30	070	5	3	1	1	4	1	0	0	0	DAC	—
				0097	+10	-24	076	9	3	3	1	6	3	0	0	0	DAC	—
				0094	-18	-30	070	6	2	1	1	5	1	0	0	0	DAI	—
				0090	-06	+33	133	2	1	1	1	1	1	0	0	0	CSO	long
0087	-08	+58	158	9	3	4	1	5	4	0	0	0	DAC	—				
4150	2002 / 09 / 03	2045	73.2	0103	+15	-75	358	3	2	0	1	3	0	0	0	DAO	—	
				0102	+08	-55	018	1	1	0	0	0	0	1	0	HSX	—	
				0101	+03	-46	027	3	1	0	1	3	0	0	0	HAX	—	
				0100	-15	-45	028	6	1	5	1	1	5	0	0	0	CSI	—
				0098	-10	-40	033	2	1	1	1	1	1	0	0	0	CSO	small
				0096	-14	-27	046	13	5	6	1	7	6	0	0	0	DAC	—
				0095	+08	-13	060	34	10	13	1	21	13	0	0	0	FKC	—
				0094	-18	-03	070	4	1	2	1	2	2	0	0	0	CAI	—
				0099	-05	+00	073	9	2	5	1	4	5	0	0	0	DAI	—
				0097	+12	+04	077	14	5	7	1	7	7	0	0	0	DAC	—
0090	-05	+65	138	1	1	0	0	0	0	1	0	0	HSX	—				
4151	2002 / 09 / 06	2035	33.7	0104	+11	-75	319	1	0	1	0	0	0	0	1	AXX	—	
				0103	+15	-34	000	18	4	10	1	8	10	0	0	0	DAC	—
				0100	-19	-09	025	8	1	5	1	3	5	0	0	0	CAI	—
				0101	+02	-08	026	1	0	1	0	0	0	0	1	0	AXX	small
				0096	-16	+12	046	17	3	10	1	7	10	0	0	0	EAC	—
				0095	+08	+28	062	28	7	9	1	19	9	0	0	0	FAC	—
				0094	-19	+38	072	2	1	1	1	1	1	0	0	0	CSO	—
				0099	-05	+41	075	1	1	0	0	0	0	1	0	0	HSX	—
0097	+12	+44	078	7	2	3	1	4	3	0	0	0	DAI	—				



REGION CO-ORDINATES AND CLASSIFICATIONS FOR  
**SEPTEMBER 2002 continued.**

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks		
4152	2002/09/10	2135	340.3	0107	+11	-44	296	14	5	5	1	9	5	0	0	DAC	—		
				0105	-08	-43	297	43	7	15	1	28	15	0	0	FKC	old 0069		
				0110	+20	-19	321	9	3	4	1	5	4	0	0	DAC	—		
				0109	-08	-19	321	7	3	2	1	5	2	0	0	DAC	—		
				0104	+10	-16	324	1	0	1	0	0	0	0	0	1	AXX	small	
				?	+08	+08	348	2	0	2	1	0	2	0	0	0	BXO	small	
				?	+27	+13	353	1	0	1	0	0	0	0	0	0	1	AXX	—
				0103	+15	+19	359	34	6	10	1	24	10	0	0	0	EAC	short	
				0100	-19	+49	029	2	1	1	1	1	1	1	0	0	CSO	—	
4153	2002/09/11	2125	327.2	0105	-09	-30	297	52	5	23	1	29	23	0	0	FKC	—		
				0107	+11	-32	295	15	4	5	1	10	5	0	0	DAC	—		
				0112	+00	-19	308	3	0	3	1	0	3	0	0	BXI	—		
				0110	+20	-07	320	7	3	3	1	4	3	0	0	DAC	—		
				0109	-08	-07	320	10	4	4	1	6	4	0	0	DAC	—		
				0103	+15	+31	358	29	6	12	1	17	12	0	0	EAC	—		
				0100	-19	+62	029	1	1	0	0	0	0	0	1	0	HSX	—	
4154	2002/09/13	2015	301.4	0115	-03	-60	241	1	0	1	0	0	0	0	1	AXX	big		
				0105	-08	-05	296	34	4	13	1	21	13	0	0	FKC	—		
				0107	+11	-05	296	16	3	7	1	9	7	0	0	DAC	—		
				0112	+00	+07	308	1	0	1	0	0	0	0	0	1	AXX	—	
				0110	+19	+20	321	2	0	2	1	0	2	0	0	0	BXO	—	
				0109	-08	+21	322	6	3	2	1	4	2	0	0	0	DAC	—	
				0103	+16	+56	357	12	5	4	1	8	4	0	0	0	EAC	—	
4155	2002/09/20	2010	209.0	0128	+11	-65	144	2	0	2	1	0	2	0	0	BXO	—		
				0126	-24	-64	145	3	2	1	1	2	1	0	0	DSI	—		
				0125	-09	-42	167	1	0	1	0	0	0	0	0	1	AXX	—	
				0122	-18	-23	186	14	4	8	1	6	8	0	0	0	DAC	—	
				0121	-13	-14	195	1	1	0	0	0	0	0	1	0	HSX	—	
				0117	-10	-07	202	1	1	0	0	0	0	0	1	0	HHX	—	
				0120	-18	-05	204	2	0	2	1	0	2	0	0	0	BXO	—	
				?	-11	-03	206	2	1	1	1	1	1	0	0	0	CSO	—	
				?	-10	+02	211	6	2	1	1	5	1	0	0	0	DAI	—	
				0123	-14	+08	217	4	2	1	1	3	1	0	0	0	DAI	—	
				0119	-14	+22	231	23	5	10	1	13	10	0	0	0	EKC	—	
				0115	-04	+36	245	2	1	1	1	1	1	0	0	0	CSO	—	
				0116	+14	+60	269	2	1	1	1	1	1	0	0	0	CSO	—	

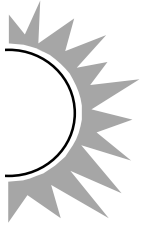


## Georgi Dobrovolski Solar Observatory

### REGION CO-ORDINATES AND CLASSIFICATIONS FOR

### SEPTEMBER 2002 *continued.*

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks	
4156	2002 / 09 / 21	2115	195.3	0126	-23	-53	142	3	2	1	1	3	0	0	0	DAO	—	
				0125	-09	-28	167	1	0	1	0	0	0	0	0	1	AXX	—
				0132	+18	-14	181	1	1	0	0	0	0	1	0	0	HRX	—
				0122/7	-16	-08	187	23	6	7	1	16	7	0	0	0	DAC	—
				0121	-13	+01	196	1	1	0	0	0	0	1	0	0	HSX	—
				0117	-09	+06	201	1	1	0	0	0	0	1	0	0	HHX	—
				?	-10	+16	211	2	1	1	1	1	1	0	0	0	CSO	—
				0123	-15	+20	215	4	1	3	1	1	3	0	0	0	CSI	—
				0119	-14	+35	230	32	5	9	1	23	9	0	0	0	EKC	—
				0115	-04	+54	249	3	1	2	1	1	2	0	0	0	CSI	—
4157	2002 / 09 / 23	2055	169.0	0129	+26	-43	126	3	1	2	1	1	2	0	0	CSI	—	
				0130	+06	-39	130	2	1	1	1	1	1	0	0	0	CSO	—
				0126	-22	-26	143	1	1	0	0	0	0	1	0	0	HSX	small
				0131	-06	-23	146	1	0	1	0	0	0	0	1	0	AXX	—
				0133	-25	-22	147	9	2	4	1	5	4	0	0	0	DAI	—
				0125	-09	-03	166	4	0	4	1	0	4	0	0	0	BXI	—
				0132	+19	+12	181	16	3	5	1	11	5	0	0	0	DAC	—
				0122/7	-15	+17	186	20	6	5	1	15	5	0	0	0	EAC	—
				0121	-13	+26	195	2	1	0	1	2	0	0	0	0	HAX	—
				0117	-10	+32	201	2	1	0	1	2	0	0	0	0	HKX	—
				0123	-16	+52	221	1	1	0	0	0	0	1	0	0	HSX	small
				0119	-14	+57	226	17	4	9	1	8	9	0	0	0	EKC	—
4158	2002 / 09 / 25	2010	143.1	0134	+10	-66	077	7	4	2	1	5	2	0	0	DAC	—	
				0129	+26	-14	129	4	2	2	1	2	2	0	0	0	DSI	—
				0130	+06	-12	131	9	2	2	1	7	2	0	0	0	DAI	—
				?	-30	+00	143	1	1	0	0	0	0	1	0	0	HSX	—
				0133	-26	+05	148	3	1	2	1	1	2	0	0	0	CSI	small
				0131	-06	+07	150	1	0	1	0	0	0	0	1	0	AXX	—
				?	-19	+18	161	1	0	1	0	0	0	0	1	0	AXX	small
				0125	-07	+22	165	1	1	0	0	0	0	1	0	0	HSX	—
				0132	+19	+39	182	18	3	4	1	14	4	0	0	0	DAC	—
				0122/7	-16	+44	187	15	4	6	1	9	6	0	0	0	EAC	—
0117	-09	+58	201	1	1	0	0	0	0	1	0	0	HSX	—				



## Georgi Dobrovolski Solar Observatory

REGION CO-ORDINATES AND CLASSIFICATIONS FOR

SEPTEMBER 2002 continued.

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks	
4159	2002 / 09 / 26	2045	129.5	0134	+11	-52	078	11	4	3	1	8	3	0	0	EAC	—	
				0129	+27	-01	129	5	2	2	1	3	2	0	0	DAI	—	
				0130	+06	+02	132	4	2	0	1	4	0	0	0	DAO	—	
				?	-30	+13	143	1	0	1	0	0	0	0	0	1	AXX	—
				0133	-26	+18	148	1	0	1	0	0	0	0	0	1	AXX	small
				0132	+20	+51	181	13	2	3	1	10	3	0	0	0	DAI	—
				0122/7	-15	+58	188	8	4	2	1	6	2	0	0	0	EAC	—
				0117	-08	+74	204	1	1	0	0	0	0	0	1	0	HSX	—
4160	2002 / 09 / 29	2105	89.8	?	-15	-62	028	1	0	1	0	0	0	0	1	AXX	—	
				0137	-16	-52	038	3	1	1	1	2	1	0	0	CAO	—	
				0134	+12	-13	077	27	7	11	1	16	11	0	0	EAC	—	
				0135	-25	+19	109	1	0	1	0	0	0	0	0	1	AXX	—
				0129	+26	+37	127	2	0	2	1	0	2	0	0	0	BXO	—
				0130	+05	+42	132	3	1	1	1	2	1	0	0	0	CAO	—
				0125	-09	+76	166	1	1	0	0	0	0	0	1	0	HSX	—

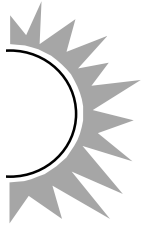


# Georgi Dobrovolski Solar Observatory

## REGION CO-ORDINATES AND CLASSIFICATIONS FOR OCTOBER 2002

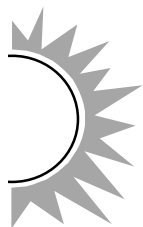
All observations carried out by HOWARD BARNES .  
 Telescope : 76 mm refractor ( f . l . 910 mm ) .  
 Observed by PROJECTION . Full disc diameter = 145 mm approx .  
 CM is stated in degrees .  
 Region Numbers are NOAA/SEC Numbers .  
 B = Heliographic Latitude ( + if NORTH , - if SOUTH ) .  
 CMD = 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
4161	2002 / 10 / 02	2045	50.4	0139	+14	-73	337	3	1	1	1	2	1	0	0	CAO	—
				?	-09	-22	028	1	0	1	0	0	0	0	1	AXX	—
				0137	-18	-09	041	21	2	9	1	12	9	0	0	DAI	—
				0134	+13	+28	078	16	4	7	1	9	7	0	0	DAC	—
4162	2002 / 10 / 03	2035	37.3	0139	+14	-61	336	7	2	3	1	4	3	0	0	DAI	—
				0137	-19	+03	040	17	5	5	1	12	5	0	0	DAC	—
				0138	+10	+35	072	2	1	1	1	1	1	0	0	CSO	—
				0134	+14	+40	077	14	2	4	1	10	4	0	0	DAI	—
4163	2002 / 10 / 04	2035	24.1	0140	-07	-78	306	1	1	0	0	0	0	1	0	HHX	—
				0139	+14	-49	335	22	4	7	1	15	7	0	0	DKC	—
				?	+15	-32	352	1	1	0	0	0	0	1	0	HRX	small
				?	+06	-01	023	2	0	2	1	0	2	0	0	BXO	—
				0137	-19	+18	042	18	4	7	1	11	7	0	0	DAC	—
				0134	+14	+54	078	8	2	2	1	6	2	0	0	DAI	—
4164	2002 / 10 / 05	2005	11.1	0142	+07	-67	304	1	1	0	0	0	0	1	0	HSX	small
				0140	-07	-65	306	1	1	0	0	0	0	1	0	HHX	—
				0139	+12	-35	336	23	5	6	1	17	6	0	0	DKC	—
				0141	-07	-23	348	5	2	1	1	4	1	0	0	DAI	—
				?	+15	-19	352	1	0	1	0	0	0	0	1	AXX	—
				0137	-19	+30	041	15	6	4	1	11	4	0	0	DAC	—
				0134	+13	+67	078	3	2	0	1	3	0	0	0	DAO	—
4165	2002 / 10 / 06	2010	357.9	0142	+06	-53	305	1	1	0	0	0	0	1	0	HSX	—
				0140	-07	-53	305	4	1	3	1	1	3	0	0	CSI	—
				?	-14	-28	330	1	0	1	0	0	0	0	1	AXX	small
				0139	+11	-22	336	21	4	6	1	15	6	0	0	DKC	—
				0141	-07	-08	350	7	3	3	1	4	3	0	0	DAC	—
				0137	-19	+45	043	11	3	4	1	7	4	0	0	DAC	—



REGION CO-ORDINATES AND CLASSIFICATIONS FOR  
OCTOBER 2002 continued.

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks	
4166	2002 / 10 / 07	2030	344.5	0144	+12	-47	298	6	2	3	1	3	3	0	0	DAI	—	
				0142	+05	-39	306	1	1	0	0	0	0	0	1	0	HSX	—
				0140	-08	-39	306	5	1	3	1	2	3	0	0	0	CKI	—
				0139	+11	-09	336	27	5	9	1	18	9	0	0	0	DKC	—
				0141	-08	+05	350	10	2	7	1	3	7	0	0	0	DAI	—
				0137	-19	+57	042	3	1	1	1	2	1	0	0	0	CAO	—
4167	2002 / 10 / 08	2025	331.4	0149	+16	-86	245	1	1	0	0	0	0	1	0	HSX	—	
				0145	+12	-79	252	1	1	0	0	0	0	0	1	0	HSX	—
				0146	-10	-41	290	2	0	2	1	0	2	0	0	0	BXO	—
				0144	+12	-33	298	5	2	2	1	3	2	0	0	0	DAI	—
				0140	-08	-28	303	2	1	1	1	1	1	0	0	0	CSO	—
				0142	+05	-25	306	1	1	0	0	0	0	0	1	0	HSX	small
				0150	-09	-11	320	1	0	1	0	0	0	0	0	1	AXX	—
				0139	+11	+04	335	22	3	11	1	11	11	0	0	0	DKC	—
				0141	-08	+20	351	4	2	2	1	2	2	0	0	0	DAI	small
				0143	-17	+48	019	8	3	2	1	6	2	0	0	0	DAC	small
4168	2002 / 10 / 09	2020	318.2	0149	+16	-75	243	1	1	0	0	0	0	1	0	HSX	—	
				0148	-21	-73	245	1	1	0	0	0	0	0	1	0	HSX	—
				0145	+11	-65	253	1	1	0	0	0	0	0	1	0	HSX	—
				0147	-03	-42	276	1	0	1	0	0	0	0	0	1	AXX	—
				0140/6	-09	-22	296	6	3	2	1	4	2	0	0	0	DAC	—
				0144	+12	-20	298	9	3	4	1	5	4	0	0	0	DAC	—
				0142	+04	-12	306	1	1	0	0	0	0	0	1	0	HRX	—
				0152	+20	-00	318	1	0	1	0	0	0	0	0	1	AXX	—
				0139	+11	+16	334	9	1	4	1	5	4	0	0	0	CKI	—
				0143	-17	+57	015	4	1	3	1	1	3	0	0	0	CSI	—
4169	2002 / 10 / 10	2125	304.4	0154	-12	-70	234	1	1	0	0	0	0	1	0	HSX	—	
				0149	+16	-63	241	6	1	4	1	2	4	0	0	0	CAI	—
				0148	-21	-59	245	1	1	0	0	0	0	0	1	0	HSX	—
				0145	+12	-51	253	1	1	0	0	0	0	0	1	0	HSX	—
				0156	-09	-25	279	2	0	2	1	0	2	0	0	0	BXO	—
				0140/6	-10	-08	296	12	2	9	1	3	9	0	0	0	DHI	—
				0144	+12	-06	298	12	4	4	1	8	4	0	0	0	DAC	—
				?	-15	-05	299	3	0	3	1	0	3	0	0	0	BXI	—
				0142	+04	+04	308	5	2	2	1	3	2	0	0	0	DAI	small
				0152	+20	+14	318	2	1	1	1	1	1	0	0	0	CSO	—
0139	+11	+31	335	17	5	4	1	13	4	0	0	0	DAC	—				



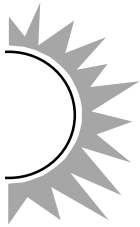
REGION CO-ORDINATES AND CLASSIFICATIONS FOR

OCTOBER 2002 *continued.*

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks			
4170	2002 / 10 / 12	2010	278.7	0158	-08	-83	196	1	1	0	0	0	0	1	0	HSX	—			
				0157	+17	-52	227	1	0	1	0	0	0	0	0	1	AXX	—		
				0154	-12	-47	232	6	3	3	1	3	3	1	3	0	0	DSC	small	
				0149	+16	-37	242	19	4	6	1	13	6	1	13	0	0	DKC	—	
				0148	-20	-34	245	2	1	0	1	2	0	1	2	0	0	HAX	—	
				0145	+13	-24	255	4	2	2	1	2	2	1	2	0	0	DSI	—	
				0156	+09	+02	281	1	0	1	0	0	0	0	0	0	1	AXX	big	
				0144	+12	+21	300	7	2	4	1	3	4	1	3	4	0	0	DAI	—
				0140	-08	+22	301	4	1	2	1	2	2	1	2	2	0	0	CSI	class correct
0139	+08	+56	335	18	3	2	1	16	2	1	16	2	0	0	DKC	—				
4171	2002 / 10 / 14	2020	252.3	0159	-11	-60	192	1	1	0	0	0	0	1	0	HSX	—			
				0160	-20	-57	195	2	0	2	1	0	2	1	0	0	BXO	—		
				0158	-08	-50	202	3	1	1	1	2	1	1	2	0	0	CAO	—	
				0154	-12	-24	228	8	2	5	1	3	5	1	3	5	0	0	DAI	small
				0149	+14	-09	243	31	6	13	1	18	13	1	18	13	0	0	DHC	—
				0148	-20	-07	245	3	1	2	1	1	2	1	1	2	0	0	CSI	—
				0145	+12	+02	254	4	1	2	1	2	2	1	2	2	0	0	CAI	—
				0144	+11	+49	301	2	1	1	1	1	1	1	1	1	0	0	CSO	—
				0140	-08	+49	301	2	1	0	1	2	0	1	2	0	0	0	HAX	—
0139	+08	+82	334	2	1	0	1	2	0	1	2	0	0	0	HKX	—				
4172	2002 / 10 / 16	2010	225.9	0159	-11	-34	192	4	1	1	1	3	1	0	0	CAO	—			
				0160	-20	-31	195	11	2	5	1	6	5	1	6	5	0	0	DAI	—
				0158N*	-03	-28	198	5	2	3	1	2	3	1	2	3	0	0	DSI	small
				0158	-08	-24	202	1	1	0	0	0	0	0	0	1	0	HSX	—	
				0154	-12	+02	228	10	2	6	1	4	6	1	4	6	0	0	DAI	—
				0157	+15	+03	229	1	0	1	0	0	0	0	0	0	1	AXX	—	
				0161	+06	+10	236	3	0	3	1	0	3	1	0	3	0	0	BXI	—
				0148	-20	+19	245	1	1	0	0	0	0	0	0	0	1	0	HSX	small
				0145/9	+13	+22	248	25	6	13	1	12	13	1	12	13	0	0	EAC	—
				0144	+11	+75	301	1	1	0	0	0	0	0	0	0	1	0	HSX	—
0140	-08	+75	301	1	1	0	0	0	0	0	0	0	1	0	HSX	—				

\* GDSO designation





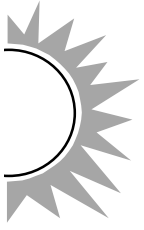
## Georgi Dobrovolski Solar Observatory

### REGION CO-ORDINATES AND CLASSIFICATIONS FOR

### OCTOBER 2002 *continued.*

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks
4173	2002 / 10 / 18	2030	199.4	0162	+25	-73	126	11	4	2	1	9	2	0	0	FHC	—
				0159	-11	-07	192	7	1	2	1	5	2	0	0	CAI	—
				0160	-20	-04	195	15	4	5	1	10	5	0	0	DAC	—
				0158	-10	-00	199	3	1	1	1	2	1	0	0	CAO	—
				0158N*	-07	-00	199	13	4	4	1	9	4	0	0	DAC	—
				?	-05	+15	214	3	0	3	1	0	3	0	0	BXI	—
				0154	-12	+29	228	2	0	2	1	0	2	0	0	BXO	—
				0148	-20	+46	245	2	1	1	1	1	1	0	0	CSO	—
				0145/9	+13	+50	249	18	5	7	1	11	7	0	0	EAC	—
4174	2002 / 10 / 19	2050	186.1	0165	+20	-85	101	1	1	0	0	0	0	1	0	HHX	—
				0162	+26	-62	124	25	5	4	1	21	4	0	0	FHC	—
				?	-16	-10	176	1	0	1	0	0	0	0	1	AXX	—
				0159	-12	+05	191	4	2	0	1	4	0	0	0	DAO	—
				0160	-22	+09	195	22	4	9	1	13	9	0	0	EAO	—
				0158N	-06	+14	200	11	4	5	1	6	5	0	0	DAI	small
				0158	-10	+15	201	3	1	1	1	2	1	0	0	CAO	—
				0154	-14	+59	245	1	0	1	0	0	0	0	1	AXX	—
				0145/9	+13	+63	249	14	4	4	1	10	4	0	0	EAC	—
4175	2002 / 10 / 21	2120	159.4	0165	+21	-60	099	5	1	1	1	4	1	0	0	CKO	—
				0162	+26	-36	123	32	7	10	1	22	10	0	0	FHC	—
				?	+27	-14	145	1	0	1	0	0	0	0	1	AXX	—
				0160	-22	+38	197	6	1	3	1	3	3	0	0	CAI	—
				0158N	-04	+43	202	2	2	0	1	2	0	0	0	DSO	small
				0158	-08	+45	204	2	1	1	1	1	1	0	0	CSO	—
4176	2002 / 10 / 23	2020	133.6	0167	+18	-78	056	1	1	0	0	0	0	1	0	HSX	—
				0165	+20	-34	100	6	1	3	1	3	3	0	0	CKI	—
				0162	+26	-13	121	41	8	16	1	25	16	0	0	FHC	—
				0166	-06	-11	123	1	0	1	0	0	0	0	1	AXX	small
				0160	-19	+69	203	3	2	1	1	2	1	0	0	DSI	—

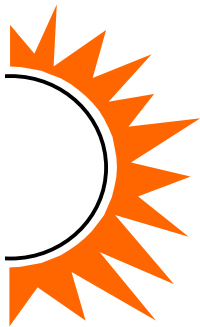
\* GDSO designation



## Georgi Dobrovolski Solar Observatory

### REGION CO-ORDINATES AND CLASSIFICATIONS FOR OCTOBER 2002 *continued.*

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks	
4177	2002 / 10 / 25	1935	107.6	0171	+10	-80	028	1	1	0	0	0	0	1	0	HSX	—	
				0170	-12	-69	039	1	1	0	0	0	0	0	1	0	HSX	small
				0169	-19	-65	043	2	2	0	1	2	0	0	0	0	DSO	—
				0167	+17	-54	054	1	1	0	0	0	0	0	1	0	HSX	—
				?	-06	-28	080	1	0	1	0	0	0	0	0	1	AXX	small
				0165	+20	-08	100	5	1	2	1	3	2	0	0	0	CAI	—
				0164	+11	+09	117	2	0	2	1	0	2	0	0	0	BXO	—
				0162	+26	+14	122	29	4	18	1	11	18	0	0	0	FKC	—
4178	2002 / 10 / 30	2020	41.3	0177	+16	-72	329	1	1	0	0	0	0	1	0	HSX	—	
				0176	+12	-67	334	1	1	0	0	0	0	0	1	0	HSX	—
				0175	+16	-47	354	11	4	5	1	6	5	0	0	0	DAC	—
				0174	-24	-45	356	4	2	1	1	3	1	0	0	0	DAI	—
				0172	-16	-19	022	1	0	1	0	0	0	0	0	1	AXX	big
				0171	+11	-15	026	2	1	0	1	2	0	0	0	0	HAX	—
				?	-08	-08	033	2	0	2	1	0	2	0	0	0	BXO	—
				0170	-12	-00	041	3	0	3	1	0	3	0	0	0	BXI	—
				0169	-20	+02	043	1	0	1	0	0	0	0	0	1	AXX	—
				0167	+16	+14	055	1	1	0	0	0	0	0	1	0	HSX	—
				?	+12	+24	065	1	0	1	0	0	0	0	0	1	AXX	—
				0165	+20	+57	098	3	1	1	1	2	1	0	0	0	CAO	—
				0162	+25	+81	122	16	2	5	1	11	5	0	0	0	EKI	—



# Georgi Dobrovolski Solar Observatory

## REGION CO-ORDINATES AND CLASSIFICATIONS FOR

## NOVEMBER 2002

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 .

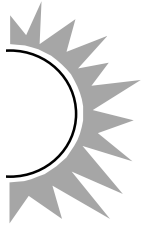
Region Numbers are NOAA/SEC Numbers .

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	
4179	2002 / 11 / 01	2110	14.4	0182	-17	-83	291	1	1	0	0	0	0	1	0	HSX	—	
				0179	+02	-74	300	1	1	0	0	0	0	0	1	0	HSX	—
				0180	-11	-72	302	3	2	1	1	2	1	0	0	0	DSI	—
				0177	+15	-45	329	14	3	5	1	9	5	0	0	0	DKC	—
				0176	+10	-39	335	1	1	0	0	0	0	1	0	0	HSX	—
				?	+16	-32	342	2	1	1	1	1	1	0	0	0	CSO	—
				0175	+15	-20	354	11	4	5	1	6	5	0	0	0	DAC	—
				0174	-26	-20	354	6	2	4	1	2	4	0	0	0	DSI	—
				0171	+10	+12	026	2	1	0	1	2	0	0	0	0	HAX	—
				0178	+01	+28	042	9	3	5	1	4	5	0	0	0	DAC	—
0167	+17	+40	054	1	1	0	0	0	0	1	0	0	HSX	—				
4180	2002 / 11 / 02	2000	1.9	0182	-17	-71	291	2	2	0	1	2	0	0	0	DSO	—	
				0184	-06	-67	295	1	0	1	0	0	0	0	1	0	AXX	—
				0180	-10	-60	302	5	2	1	1	4	1	0	0	0	DAI	—
				0179	+02	-59	303	1	1	0	0	0	0	1	0	0	HSX	—
				?	-12	-50	312	3	0	3	1	0	3	0	0	0	BXI	—
				0181	-06	-45	317	2	0	2	1	0	2	0	0	0	BXO	—
				0177	+16	-34	328	16	4	10	1	6	10	0	0	0	DHC	—
				0176	+10	-27	335	1	1	0	0	0	0	1	0	0	HHX	—
				0175	+14	-07	355	13	2	9	1	4	9	0	0	0	EAI	—
				0174	-26	-05	357	2	0	2	1	0	2	0	0	0	BXO	—
				0171	+11	+25	027	1	0	1	0	0	0	0	1	0	AXX	—
				0178	+01	+42	044	8	2	5	1	3	5	0	0	0	DAI	—
				0167	+17	+54	056	1	1	0	0	0	0	1	0	0	HSX	—

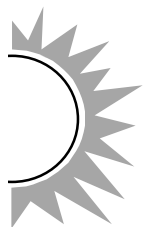


## Georgi Dobrovolski Solar Observatory

### REGION CO-ORDINATES AND CLASSIFICATIONS FOR

### NOVEMBER 2002 *continued.*

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks
4181	2002/11/06	2000	309.1	0189	+12	-59	250	1	1	0	0	0	0	1	0	HSX	small
				0185	-13	-39	270	9	2	3	1	6	3	0	0	DKI	—
				0188	+11	-25	284	8	1	5	1	3	5	0	0	CAI	—
				0182	-18	-19	290	3	1	2	1	1	2	0	0	CSI	—
				0179	+03	-05	304	1	0	1	0	0	0	0	1	AXX	big
				0180	-10	-02	307	47	8	19	1	28	19	0	0	FKC	—
				0186	+19	+09	318	6	2	2	1	4	2	0	0	DAI	—
				0177	+17	+19	328	17	4	8	1	9	8	0	0	DAC	—
				0176	+10	+25	334	1	1	0	0	0	0	1	0	HHX	—
				0175	+14	+51	360	1	1	0	0	0	0	1	0	HSX	—
4182	2002/11/11	2100	242.7	0191	-18	-42	201	40	11	19	1	21	19	0	0	FAC	—
				0192	+13	-11	232	2	0	2	1	0	2	0	0	BXO	—
				0190	-22	-03	240	3	1	2	1	1	2	0	0	CSI	—
				0185	-13	+27	270	6	4	2	1	4	2	0	0	DSC	—
				0182	-19	+47	290	1	1	0	0	0	0	1	0	HSX	—
				0180	-11	+66	309	12	3	4	1	8	4	0	0	FAC	—
4183	2002/11/12	2020	229.9	0191	-18	-28	202	43	11	17	1	26	11	0	0	FAC	—
				0193	-02	-24	206	3	1	1	1	2	1	0	0	CAO	—
				0192	+14	+04	234	1	0	1	0	0	0	0	1	AXX	—
				0190	-21	+11	241	4	1	3	1	1	3	0	0	DSC	—
				0185	-13	+40	270	9	3	2	1	7	2	0	0	DAC	—
				0182	-18	+62	292	1	1	0	0	0	0	1	0	HSX	—
				0180	-11	+79	309	6	3	2	1	4	2	0	0	EAC	—
4184	2002/11/16	1955	177.3	0198	-17	-69	108	12	2	3	1	9	3	0	0	EKI	—
				0197	+25	-49	128	1	1	0	0	0	0	1	0	HHX	—
				0195	-16	-44	133	9	4	3	1	6	3	0	0	EHC	—
				?	-08	-29	148	2	0	2	1	0	2	0	0	BXO	—
				0194	-16	-05	172	2	0	2	1	0	2	0	0	BXO	—
				0191	-18	+25	202	45	6	15	1	30	15	0	0	FKC	—
				0192	+12	+58	235	18	3	5	1	13	5	0	0	FHC	—

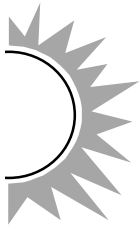


## Georgi Dobrovolski Solar Observatory

### REGION CO-ORDINATES AND CLASSIFICATIONS FOR

### NOVEMBER 2002 *continued.*

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grp	grf	efp	ef	Class.	Remarks	
4185	2002 / 11 / 17	2030	163.8	0198	-18	-58	106	11	3	5	1	6	5	0	0	FKC	—	
				0197	+24	-36	128	1	1	0	0	0	0	0	1	0	HHX	—
				0195	-17	-31	133	8	3	2	1	6	2	0	0	0	EKC	—
				0191	-18	+38	202	32	7	11	1	21	11	0	0	0	FKC	—
				0192	+12	+71	235	9	4	3	1	6	3	0	0	0	FHC	—
4186	2002 / 11 / 18	1940	151.1	0198	-18	-46	105	16	5	6	1	10	6	0	0	FKC	—	
				0201	-16	-33	118	2	0	2	1	0	2	0	0	BXO	—	
				0197	+24	-23	128	1	1	0	0	0	0	1	0	HHX	—	
				0195	-17	-18	133	9	3	4	1	5	4	0	0	EAC	—	
				0191	-18	+52	203	18	7	6	1	12	6	0	0	FAC	—	
				0192	+12	+83	234	4	2	0	1	4	0	0	0	0	DAO	—
4187	2002 / 11 / 19	2145	136.8	0198	-18	-30	107	21	3	12	1	9	12	0	0	FKC	—	
				0201	-16	-19	118	4	1	2	1	2	2	0	0	CAI	—	
				0197	+24	-09	128	1	1	0	0	0	0	1	0	HHX	—	
				0195	-17	-04	133	8	2	5	1	3	5	0	0	EAI	—	
				0191	-18	+66	203	6	3	3	1	3	3	0	0	EAC	—	
4188	2002 / 11 / 20	2010	124.5	0200	+00	-72	052	1	1	0	0	0	0	1	0	HSX	—	
				0198	-18	-16	108	19	4	9	1	10	9	0	0	FKC	—	
				0199	+27	-14	110	2	1	1	1	1	1	0	0	CSO	—	
				0201	-15	-05	119	6	2	3	1	3	3	0	0	DAI	—	
				0197	+24	+05	129	3	1	2	1	1	2	0	0	CHI	—	
				0195	-17	+10	134	8	2	3	1	5	3	0	0	EAI	—	
				0191	-18	+79	203	2	2	0	1	2	0	0	0	DSO	—	
4189	2002 / 11 / 22	2010	98.1	0200	+00	-46	052	1	1	0	0	0	0	1	0	HSX	—	
				0198	-18	+10	108	24	5	11	1	13	11	0	0	FKC	—	
				0199	+27	+12	110	1	0	1	0	0	0	0	1	AXX	—	
				0201	-16	+20	118	3	1	1	1	2	1	0	0	CAO	—	
				0197	+24	+31	129	1	1	0	0	0	0	1	0	HHX	—	
				0195	-17	+36	134	6	2	4	1	2	4	0	0	ESI	—	



## Georgi Dobrovolski Solar Observatory

### REGION CO-ORDINATES AND CLASSIFICATIONS FOR

### NOVEMBER 2002 *continued.*

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks	
4190	2002 / 11 / 24	2000	71.8	0202	+14	-68	004	1	1	0	0	0	0	1	0	HSX	—	
				0200	-01	-19	053	1	1	0	0	0	0	0	1	0	HSX	—
				0198	-18	+34	106	15	4	7	1	8	7	0	0	0	FKC	—
				0197	+26	+56	128	1	1	0	0	0	0	0	1	0	HHX	—
				0195	-16	+64	136	2	2	0	1	2	0	0	0	0	ESO	—
4191	2002 / 11 / 25	2015	58.5	0202	+13	-55	004	1	1	0	0	0	0	1	0	HSX	—	
				0200	-01	-06	053	1	1	0	0	0	0	0	1	0	HSX	—
				?	-10	+12	071	1	0	1	0	0	0	0	0	1	AXX	small
				?	+08	+22	081	2	0	2	1	0	2	0	0	0	BXO	small
				0198	-18	+46	105	12	2	7	1	5	7	0	0	0	FKI	—
				0197	+25	+69	128	1	1	0	0	0	0	0	1	0	HHX	—
				0195	-16	+79	138	1	1	0	0	0	0	0	1	0	HSX	—
4192	2002 / 11 / 29	1945	6.1	0209	-20	-77	289	2	2	0	1	2	0	0	0	DSO	—	
				0208	+09	-77	289	2	1	1	1	1	1	0	0	CSO	—	
				0207	-19	-46	320	10	3	3	1	7	3	0	0	EAC	—	
				0205	+19	-38	328	1	1	0	0	0	0	1	0	HSX	—	
				0203	+10	-31	335	1	0	1	0	0	0	0	1	AXX	—	
				0202	+13	-01	005	2	0	2	1	0	2	0	0	0	BXO	—
4193	2002 / 11 / 30	2035	352.4	0208	+10	-64	288	6	2	3	1	3	3	0	0	DAI	—	
				0209	-20	-63	289	4	2	2	1	2	2	0	0	DSI	—	
				0207	-19	-32	320	9	3	4	1	5	4	0	0	EAC	—	
				0205	+19	-24	328	1	1	0	0	0	0	1	0	HSX	—	
				0210	-09	+76	068	2	1	1	1	1	1	0	0	CSO	—	

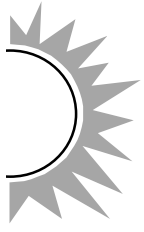


# Georgi Dobrovolski Solar Observatory

## REGION CO-ORDINATES AND CLASSIFICATIONS FOR DECEMBER 2002

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
4194	2002 / 12 / 01	2000	339.6	0208	+10	-51	289	10	5	5	1	5	5	0	0	DSC	—
				0209	-21	-50	290	7	2	3	1	4	3	0	0	DAI	—
				0207	-19	-22	318	15	4	6	1	9	6	0	0	EAC	—
				0211	-08	-20	320	2	0	2	1	0	2	0	0	BXO	—
				0205	+19	-12	328	1	1	0	0	0	0	1	0	HSX	—
				0204	+20	+13	353	1	0	1	0	0	0	0	0	1	AXX
4195	2002 / 12 / 04	2125		0213	+14	-65	234	3	2	1	1	2	1	0	0	DSI	—
				0212	+13	-50	249	6	2	3	1	3	3	0	0	DAI	—
				0208	+10	-09	290	16	3	6	1	10	6	0	0	EAC	—
				0209	-19	-08	291	5	1	4	1	1	4	0	0	CSI	—
				?	+13	+03	302	2	0	2	1	0	2	0	0	BXO	—
				0207	-19	+20	319	7	3	3	1	4	3	0	0	EAC	—
4196	2002 / 12 / 08	2115	246.7	0221	+22	-76	171	1	0	1	0	0	0	0	1	AXX	big
				0218	-20	-70	177	1	1	0	0	0	0	1	0	HSX	—
				0220	-12	-62	185	2	1	1	1	1	1	0	0	CSO	—
				0217	+12	-58	189	1	1	0	0	0	0	1	0	HSX	small
				0215	-18	-34	213	4	1	2	1	2	2	0	0	CAI	—
				0212	+14	+03	250	6	3	2	1	4	2	0	0	DAC	—
				0219	-05	+10	257	1	0	1	0	0	0	0	1	AXX	—
				0216	-24	+37	284	3	1	2	1	1	2	0	0	CSI	—
				0209	-18	+50	297	1	1	0	0	0	0	1	0	HSX	—
				0214	+13	+68	315	3	2	1	1	2	1	0	0	DSI	—
				?	+22	+70	317	1	1	0	0	0	0	1	0	HSX	—
				0207	-17	+79	326	1	1	0	0	0	0	1	0	HSX	—



# Georgi Dobrovolski Solar Observatory

## REGION CO-ORDINATES AND CLASSIFICATIONS FOR

### DECEMBER 2002 *continued.*

OBS	DATE	UT	CM	REG.No	B	CMD	L	f	p	s	gr	grfp	grf	efp	ef	Class.	Remarks
4197	2002 / 12 / 09	2055	233.7	0221	+22	-63	171	1	1	0	0	0	0	1	0	HSX	—
				0218	-20	-57	177	4	1	2	1	2	2	0	0	CAI	—
				0220	-12	-49	185	12	3	3	1	9	3	0	0	DAC	—
				0217	+12	-45	189	2	1	0	1	2	0	0	0	HAX	—
				0215	-18	-21	213	9	2	4	1	5	4	0	0	DAI	—
				0213	+14	-03	231	2	0	2	1	0	2	0	0	BXO	—
				0212	+14	+16	250	8	3	2	1	6	2	0	0	DAC	tight
				0219	-05	+23	257	1	1	0	0	0	0	1	0	HSX	—
				0216	-24	+50	284	2	1	1	1	1	1	0	0	CSO	—
0209	-18	+63	297	2	1	1	1	1	1	1	0	0	CSO	—			
4198	2002 / 12 / 22	2140	62.0	0230	-08	+05	067	11	2	6	1	5	6	0	0	DAI	—
				0229	+19	+40	102	5	2	2	1	3	2	0	0	DAI	—
				0231	-25	+24	086	3	2	0	1	3	0	0	0	DAO	—
				0223	+25	+56	118	1	1	0	0	0	0	1	0	HSX	—
				0224	-14	+56	118	13	4	5	1	8	5	0	0	EAC	short
				0226	-28	+65	127	8	4	3	1	5	3	0	0	FHC	—
4199	2002 / 12 / 24	1910	37.0	0234	+18	-77	320	1	1	0	0	0	0	1	0	HSX	—
				0230	-08	+30	067	3	1	1	1	2	1	0	0	CAO	—
				0231	-25	+49	086	2	1	1	1	1	1	0	0	CSO	—
				0229	+25	+59	096	1	0	1	0	0	0	0	1	AXX	big
				0224	-14	+77	114	4	3	1	1	3	1	0	0	DSC	—
4200	2002 / 12 / 26	1940	10.4	0234	+17	-48	322	1	1	0	0	0	0	1	0	HSX	—
				0230	-07	+60	070	1	1	0	0	0	0	1	0	HSX	—
				0231	-24	+74	084	2	2	0	1	2	0	0	0	DSO	—
4201	2002 / 12 / 28	1935	344.1	0239	-10	+54	290	1	0	1	0	0	0	0	1	AXX	big
				0234	+19	-22	322	1	1	0	0	0	0	1	0	HSX	—
				0238	+09	+18	326	1	0	1	0	0	0	0	1	AXX	—
				0236	+16	+38	022	2	1	1	1	1	1	0	0	CSO	small
4202	2002 / 12 / 29	2000	330.7	0239	-10	-41	290	8	3	4	1	4	4	0	0	DAC	small
				0234	+18	+09	322	3	1	2	1	1	2	0	0	CSI	—
				0237	-26	+10	341	2	1	1	1	1	1	0	0	CSO	—
				0235	+14	+18	349	1	0	1	0	0	0	0	1	AXX	—
4203	2002 / 12 / 30	2015	317.4	0239	-10	-27	290	6	2	3	1	3	3	0	0	DAI	—
				0234	+18	+05	322	1	1	0	0	0	0	1	0	HSX	—
4204	2002 / 12 / 31	1920	304.7	0239/40	-08	-19	286	7	1	5	1	2	5	0	0	CAI	—
				0234	+20	+17	322	3	1	2	1	1	2	0	0	CSI	—