Online Material

Table 2. Spectral lines observed in the Sr-filament of η Car in the wavelength region 2480-10140 Å. The lines are sorted by wavelength.

λ_{obs} (Å)	Velocity (km/s)	λ_{lab} (Å)	Ion	Mult.	Transition	I(mar00)	I(apr01)	I(nov01)	I(dec02)	Comment[a]
						(10^{-15} erg cm^{-2} s^{-1} arcsec^{-2})				
2489.71	-95	2490.501	FeI	(uv9)	a^5D_0-x^5F_1					
2490.61	-95	2491.395	FeI	(uv9)	a^5D_2-x^5F_3			20		
2491.05	-103	2491.907	FeI	(uv9)	a^5D_1-x^5F_2			4		
2492.53	-103	2493.383	FeI	(uv63)	a^5F_3-x^3G_3					
2492.82	-91	2493.573	FeI	(uv59)	a^5F_3-w^5G_2			22		
2510.71	-105	2511.591	FeI	(uv7)	a^5D_3-x^5D_2			45		
2537.92			unid					14		bl
2538.90			unid					22		
2540.88	-83	2541.585	ScII	(uv1)	a^3D_1-y^3P_2			8		
2540.88	-101	2541.735	FeI	(uv7)	a^5D_1-x^5D_2			8		
2545.08	-105	2545.967	ScII	(uv1)	a^3D_2-y^3P_2			8		
2548.76			unid					7		
2552.33	-93	2553.120	ScII	(uv1)	a^3D_3-y^3P_2			18		
2558.54	-288	2560.996	ScII	(uv1)	a^3D_2-y^3P_1			8		bl. abs
2563.16	-93	2563.958	ScII	(uv1)	a^3D_1-y^3P_0			24		
2566.69	-116	2567.682	FeII	(uv64)	$a^4D_{3/2}$-$z^4P_{1/2}$			15		
2576.00	-95	2576.820	FeI	(–)	a^3G_4-sp^3F_3			30		
2577.96	-86	2578.695	FeII	(uv78)	$a^4P_{1/2}$-$z^4P_{1/2}$			20		
2580.24			unid					37		
2590.73	-106	2591.646	FeI	(–)	a^5F_3-w^5P_2			11		
2592.96			unid					33		bl abs
2615-30		2607-2632	FeII	(uv1)	a^6D-z^6D					bl. abs
2663.42	-89	2664.214	CrII	(uv8)	$a^6D_{7/2}$-$z^6D_{9/2}$	20				
2663.42	-118	2664.467	CrII	(uv8)	$a^6D_{1/2}$-$z^6D_{1/2}$	20				
2665.93	-99	2666.813	CrII	(uv8)	$a^6D_{5/2}$-$z^6D_{7/2}$	10				
2669.07	-99	2669.949	AlII	(uv1)	a^1S_0-a^3P_1	17				
2672.62	-112	2673.621	CrII	(uv7)	$a^6D_{7/2}$-$z^4P_{5/2}$	13				
2677.07	-99	2677.955	CrII	(uv8)	$a^6D_{9/2}$-$z^6D_{9/2}$	21				
2677.07	-99	2677.957	CrII	(uv8)	$a^6D_{9/2}$-$z^6D_{9/2}$	21				
2678.53	-94	2679.371	VII	(uv3)	a^5D_3-z^5D_4	21				
2678.53	-118	2679.585	CrII	(uv8)	$a^6D_{3/2}$-$z^6D_{5/2}$	21				
2682.88	-88	2683.671	VII	(uv3)	a^5D_2-z^5D_2	5				
2682.88	-113	2683.887	VII	(uv3)	a^5D_0-z^5D_1	5				
2686.87	-113	2687.885	CrII	(uv8)	$a^6D_{5/2}$-$z^6D_{5/2}$	4				
2687.83	-104	2688.760	VII	(uv3)	a^5D_4-z^5D_4	5				
2688.73	-88	2689.519	VII	(uv3)	a^5D_4-z^5D_3	2				
2690.85	-82	2691.590	VII	(uv3)	a^5D_2-z^5D_1	10				
2690.85	-110	2691.839	CrII	(uv8)	$a^6D_{9/2}$-$z^6D_{7/2}$	10				
2698.46	-83	2699.210	CrII	(uv8)	$a^6D_{7/2}$-$z^6D_{5/2}$	11				bl.
2700.81	-103	2701.736	VII	(uv1)	a^5D_4-z^5F_5	11				
2701.99	-111	2702.989	VII	(uv2)	a^5D_3-z^3D_3	3				
2711.53	-103	2712.459	FeI	(uv47)	a^5F_4-w^5F_5	4				
2711.53	-112	2712.544	VII	(uv2)	a^5D_4-z^3D_3	4				
2713.53	-114	2714.564	TiII	(uv13)	$a^2D_{3/2}$-$y^2P_{3/2}$	7				
2714.35	-96	2715.218	FeII	(uv63)	$a^4D_{7/2}$-$z^4D_{5/2}$	13				
2715.63	-92	2716.463	VII	(uv1)	a^5D_2-z^5F_3	7				
2715.63	-102	2716.557	VII	(uv1)	a^5D_4-z^5F_4	7				
2719.04	-87	2719.833	FeI	(uv5)	a^5D_4-y^5P_3	10				
2720.85	-95	2721.709	FeI	(uv5)	a^5D_3-y^5P_2	6				
2727.59	-83	2728.347	FeII	(uv63)	$a^4D_{5/2}$-$z^4D_{3/2}$	28				
2730.77	-112	2731.790	FeI	(uv48)	a^5F_1-v^5D_1	22				
2733.52	-95	2734.390	FeI	(–)	a^5F_5-w^5D_4	7				
2736.92	-94	2737.776	FeII	(uv63)	$a^4D_{3/2}$-$z^4D_{1/2}$	15				

Table 2. Continued.

λ_{obs} (Å)	Velocity (km/s)	λ_{lab} (Å)	Ion	Mult.	Transition	I(mar00)	I(apr01)	I(nov01)	I(dec02)	Comment[a]
						(10^{-15} erg cm^{-2} s^{-1} arcsec^{-2})				
2739.34	-112	2740.359	FeII	(uv63)	$a^4D_{7/2}$-$z^4D_{7/2}$	42				
2743.12	-97	2744.008	FeII	(uv62)	$a^4D_{1/2}$-$z^4F_{3/2}$	35				
2746.19	-121	2747.296	FeII	(uv62)	$a^4D_{1/2}$-$z^4F_{5/2}$					
2749.03	-120	2750.134	FeII	(uv62)	$a^4D_{5/2}$-$z^4F_{7/2}$	67				
2749.03	-138	2750.299	FeII	(uv63)	$a^4D_{1/2}$-$z^4D_{1/2}$	67				
2755.54	-110	2756.552	FeII	(uv62)	$a^4D_{7/2}$-$z^4F_{9/2}$	128				
2761.71	-100	2762.629	FeII	(uv63)	$a^4D_{1/2}$-$z^4D_{3/2}$	24				
2765.59	-98	2766.497	VII	(uv46)	a^3H_6-y^3G_5					
2810.23	-96	2811.134	TiII	(uv17)	$a^2P_{3/2}$-$y^2P_{3/2}$	8				
2813.39	-77	2814.116	FeI	(uv44)	a^5F_4-y^5G_5					
2815.20			unid			3				
2816.21	-104	2817.191	TiII	(uv17)	$a^2P_{3/2}$-$y^2P_{1/2}$	2				
2817.29	-111	2818.332	VII	(120)	a^3D_1-w^3D_1	2				
2832.10	-97	2833.015	TiII	(uv7)	$a^2F_{5/2}$-$y^2F_{5/2}$	5				
2835.60	-91	2836.463	CrII	(uv5)	$a^6D_{9/2}$-$z^6F_{11/2}$	13				
2843.25	-88	2844.085	CrII	(uv5)	$a^6D_{7/2}$-$z^6F_{9/2}$	22				
2849.71	-102	2850.675	CrII	(uv5)	$a^6D_{5/2}$-$z^6F_{7/2}$	7				
2852.06	-95	2852.964	MgI	(uv1)	a^1S_0-a^1P_1	35				bl. abs
2855.63	-92	2856.509	CrII	(uv5)	$a^6D_{3/2}$-$z^6F_{5/2}$	10				
2858.79	-101	2859.749	CrII	(uv5)	$a^6D_{9/2}$-$z^6F_{9/2}$	16				
2862.44	-102	2863.412	CrII	(uv5)	$a^6D_{7/2}$-$z^6F_{7/2}$	8				
2865.12	-86	2865.943	CrII	(uv5)	$a^6D_{5/2}$-$z^6F_{5/2}$	9				
2866.76	-86	2867.582	CrII	(uv5)	$a^6D_{3/2}$-$z^6F_{3/2}$	11				
2877.47	-85	2878.282	TiII	(uv14)	$a^2G_{7/2}$-$y^2G_{7/2}$	7				
2879.93	-97	2880.861	VII	(uv12)	a^5F_3-z^5D_3	12				
2882.49	-88	2883.339	VII	(uv12)	a^5F_2-z^5D_2	10				
2884.04	-96	2884.960	TiII	(uv14)	$a^2G_{9/2}$-$y^2G_{9/2}$	9				
2889.55	-95	2890.463	VII	(uv12)	a^5F_1-z^5D_0	11				
2891.44	-108	2892.483	VII	(uv12)	a^5F_2-z^5D_1	9				
2892.57	-74	2893.279	VII	(uv12)	a^5F_4-z^5D_4	16				
2892.57	-96	2893.493	VII	(uv12)	a^5F_2-z^5D_2	16				
2893.22	-97	2894.159	VII	(uv12)	a^5F_4-z^5D_3	9				
2896.17	-90	2897.040	VII	(uv11)	a^5F_2-z^3D_3	6				
2902.98	-97	2903.913	VII	(uv11)	a^5F_1-z^3D_2	7			11	
2906.34	-99	2907.290	VII	(uv11)	a^5F_3-z^3D_3	9			15	
2907.48	-86	2908.310	VII	(uv10)	a^5F_4-z^5F_5	9			13	
2908.71	-98	2909.660	VII	(uv12)	a^5F_5-z^5D_4				17	
2917.28	-95	2918.207	VII	(2)	a^5F_2-z^5F_1				7	
2920.21	-102	2921.209	VII	(uv11)	a^5F_3-z^3D_2				23	
2920.21	-104	2921.226	VII	(2)	a^5F_2-z^5F_3				23	
2923.93	-95	2924.862	VII	(2)	a^5F_5-z^5F_5				37	
2930.60	-107	2931.649	VII	(2)	a^5F_3-z^5F_3				11	
2932.10	-39	2932.480	VII	(–)	b^3D_2-x^3P_1				40	bl.
2932.10	-110	2933.179	VII	(–)	b^3D_3-x^3P_2				40	bl.
2932.10	-185	2933.913	MnII	(uv5)	a^5S_2-z^5P_1				40	bl.
2934.29	-98	2935.249	VII	(2)	a^5F_1-z^5F_2				10	
2939.00	-119	2940.168	MnII	(uv5)	a^5S_2-z^5P_2				53	bl.
2941.41	-96	2942.347	VII	(2)	a^5F_2-z^5F_2				20	
2944.50	-94	2945.422	VII	(2)	a^5F_4-z^5F_3				33	
2948.93	-115	2950.067	MnII	(uv5)	a^5S_2-z^5P_3				51	
2952.09	-84	2952.922	VII	(2)	a^5F_3-z^5F_2				26	
2957.48	-91	2958.374	VII	(uv11)	a^5F_2-z^3D_1				18	
2966.76	-102	2967.764	FeI	(10)	a^5D_4-y^5F_5				13	

Table 2. Continued.

λ_{obs} (Å)	Velocity (km/s)	λ_{lab} (Å)	Ion	Mult.	Transition	I(mar00)	I(apr01)	I(nov01)	I(dec02)	Comment[a]
						(10^{-15} erg cm^{-2} s^{-1} arcsec^{-2})				
2968.46	-79	2969.241	VII	(28)	a^5P_3-y^5D_4				18	
2970.42	-97	2971.382	FeII	(2)	$a^4D_{3/2}$-$z^6F_{5/2}$				35	
2979.54	-69	2980.224	FeII	(2)	$a^4D_{1/2}$-$z^6F_{3/2}$				28	bl.
2994.41	-89	2995.300	FeI	(9)	a^5D_3-y^5D_2				8	
2995.96	-91	2996.863	VII	(27)	a^5P_1-z^5P_2				7	
2999.49	-90	3000.387	FeI	(30)	a^5F_5-x^5F_5				7	
3001.18	-90	3002.079	VII	(27)	a^5P_3-z^5P_3				16	
3008.18	-83	3009.017	FeI	(9)	a^5D_1-y^5D_0				5	
3008.18	-100	3009.188	TiII	(85)	$a^2H_{9/2}$-$z^2H_{11/2}$				5	
3009.55	-90	3010.446	FeI	(30)	a^5F_4-x^5F_4				3	
3013.07	-91	3013.985	VII	(28)	a^5P_1-y^5D_1				4	
3014.79	-90	3015.694	VII	(27)	a^5P_2-z^5P_1				11	
3016.89	-116	3018.063	TiII	(85)	$a^2H_{11/2}$-$z^2H_{11/2}$				32	
3019.07	-78	3019.862	FeI	(30)	a^5F_3-x^5F_3				2	
3020.72	-79	3021.519	FeI	(9)	a^5D_4-y^5D_4				17	
3020.72	-81	3021.542	VII	(28)	a^5P_2-y^5D_1				17	
3020.72	-122	3021.953	FeI	(9)	a^5D_3-y^5D_3				17	
3025.73	-99	3026.724	FeI	(9)	a^5D_0-y^5D_1			5	4	
3029.67	-94	3030.611	TiII	(85)	$a^2H_{9/2}$-$z^2H_{9/2}$			7	10	
3033.40	-91	3034.318	VII	(123)	b^3H_6-z^3I_7			10	8	
3033.40	-129	3034.702	VII	(34)	a^3G_5-z^3H_6			10	8	
3037.24	-102	3038.273	FeI	(9)	a^5D_1-y^5D_2			8	6	
3041.76	-86	3042.623	FeI	(30)	a^5F_3-x^5F_4			6	1	
3041.76	-176	3043.549	FeI	(30)	a^5F_2-x^5F_3			6	1	
3047.29	-29	3047.583	TiII	(47)	$a^4P_{3/2}$-$z^4P_{5/2}$			16	7	
3047.29	-118	3048.491	FeI	(9)	a^5D_2-y^5D_3			16	8	
3050.49			unid					8	4	
3053.37	-90	3054.279	VII	(34)	a^3G_4-z^3H_5			10		
3057.52	-12	3057.646	TiII	(47)	$a^4P_{1/2}$-$z^4P_{3/2}$			17		
3057.52	-80	3058.335	FeI	(28)	a^5F_5-x^5D_4			17		bl. HP
3057.52	-144	3058.990	TiII	(47)	$a^4P_{5/2}$-$z^4P_{5/2}$			17		
3058.99	-97	3059.975	FeI	(9)	a^5D_3-y^5D_4			1		
3066.36	-103	3067.404	TiII	(47)	$a^4P_{3/2}$-$z^4P_{1/2}$			23		
3066.36	-74	3067.119	TiII	(5)	$a^4F_{5/2}$-$z^4D_{5/2}$			23		
3066.36	-87	3067.245	TiII	(5)	$a^4F_{3/2}$-$z^4D_{3/2}$			23		
3071.77	-38	3072.153	TiII	(47)	$a^4P_{5/2}$-$z^4P_{3/2}$			16		
3071.77	-122	3073.015	TiII	(5)	$a^4F_{7/2}$-$z^4D_{7/2}$			16		
3074.94	-116	3076.123	TiII	(5)	$a^4F_{5/2}$-$z^4D_{3/2}$			14		
3078.18	-134	3079.551	TiII	(5)	$a^4F_{7/2}$-$z^4D_{5/2}$			13		
3087.56	-134	3088.934	TiII	(5)	$a^4F_{9/2}$-$z^4D_{7/2}$			19		
3089.27	-101	3090.306	TiII	(90)	$b^2G_{7/2}$-$x^2F_{5/2}$			12		
3092.88	-109	3094.003	VII	(1)	a^5F_5-z^5G_6			35		
3092.88	-115	3094.056	VII	(39)	b^3G_5-y^3G_5			35		
3097.08	-98	3098.095	TiII	(67)	$b^4P_{3/2}$-$z^4P_{5/2}$			10		
3100.93	-61	3101.565	FeI	(28)	a^5F_3-x^5D_3			15		
3100.93	-87	3101.834	VII	(39)	b^3G_3-y^3G_3			15		
3102.09	-107	3103.189	VII	(1)	a^5F_4-z^5G_5			12		
3103.74	-94	3104.712	TiII	(90)	$b^2G_{9/2}$-$x^2F_{7/2}$			11		
3105.08	-89	3105.996	TiII	(67)	$b^4P_{1/2}$-$z^4P_{3/2}$			6		
3106.22	-90	3107.147	TiII	(67)	$b^4P_{5/2}$-$z^4P_{5/2}$			18		
3110.51	-105	3111.597	TiII	(67)	$b^4P_{3/2}$-$z^4P_{3/2}$			24		
3110.51	-105	3111.597	VII	(1)	a^5F_3-z^5G_4			24		
3118.06	-117	3119.277	VII	(1)	a^5F_2-z^5G_3			35		

Table 2. Continued.

λ_{obs} (Å)	Velocity (km/s)	λ_{lab} (Å)	Ion	Mult.	Transition	I(mar00)	I(apr01)	I(nov01)	I(dec02)	Comment[a]
						(10^{-15} erg cm^{-2} s^{-1} arcsec^{-2})				
3120.09	-113	3121.264	CrII	(5)	$a^4D_{3/2}$-$z^4F_{5/2}$			34		
3120.09	-62	3120.730	TiII	(67)	$b^4P_{5/2}$-$z^4P_{3/2}$			34		
3120.09	-187	3122.041	VII	(1)	a^5F_5-z^5G_5			34		
3124.94	-90	3125.879	CrII	(5)	$a^4D_{5/2}$-$z^4F_{7/2}$			58		
3124.94	-119	3126.182	VII	(1)	a^5F_1-z^5G_2			58		
3124.94	-209	3127.117	VII	(1)	a^5F_4-z^5G_4			58		
3130.19	-93	3131.164	VII	(1)	a^5F_3-z^5G_3			15		
3131.93	-99	3132.961	CrII	(5)	$a^4D_{7/2}$-$z^4F_{9/2}$			15		
3133.19	-101	3134.235	VII	(1)	a^5F_2-z^5G_2			19		
3136.40	-100	3137.439	VII	(122)	b^3H_5-y^3H_5			9		
3145.23	-96	3146.237	VII	(1)	a^5F_3-z^5G_2			10		
3145.23	-98	3146.262	VII	(1)	a^5F_5-z^5G_4			10		
3146.64			unid					5		
3151.97	-115	3153.172	TiII	(10)	$b^4F_{5/2}$-$z^4D_{5/2}$			11		
3154.09	-98	3155.118	TiII	(10)	$b^4F_{3/2}$-$z^4D_{3/2}$			12		
3155.47	-104	3156.562	TiII	(37)	$a^2G_{9/2}$-$y^4D_{7/2}$			15		
3161.34	-76	3162.136	TiII	(10)	$b^4F_{3/2}$-$z^4D_{1/2}$			9		
3161.34	-128	3162.689	TiII	(10)	$b^4F_{5/2}$-$z^4D_{3/2}$			9		
3162.21	-121	3163.488	TiII	(10)	$b^4F_{7/2}$-$z^4D_{5/2}$			42		
3168.30	-109	3169.449	TiII	(10)	$b^4F_{9/2}$-$z^4D_{7/2}$			30		
3187.69	-88	3188.624	VII	(8)	a^3F_2-z^3F_2			34		
3190.59	-95	3191.602	VII	(8)	a^3F_4-z^3F_4			26		
3190.59	-114	3191.802	TiII	(26)	$a^2D_{5/2}$-$y^2F_{7/2}$			26		
3202.35	-105	3203.463	TiII	(26)	$a^2D_{3/2}$-$y^2F_{5/2}$			27		
3208.63			unid					8		
3216.69	-107	3217.833	TiII	(36)	$a^2G_{7/2}$-$y^2F_{7/2}$			26		
3216.69	-122	3217.992	TiII	(2)	$a^4F_{7/2}$-$z^4F_{9/2}$			26		
3218.18	-94	3219.193	TiII	(84)	$a^2H_{9/2}$-$y^2G_{7/2}$			19		
3222.49	-119	3223.774	TiII	(2)	$a^4F_{5/2}$-$z^4F_{7/2}$			9		
3224.08	-102	3225.172	TiII	(84)	$a^2H_{11/2}$-$y^2G_{9/2}$			32		
3228.48	-98	3229.534	TiII	(24)	$a^2D_{3/2}$-$z^2P_{1/2}$			69		
3228.48	-153	3230.130	TiII	(2)	$a^4F_{3/2}$-$z^4F_{5/2}$			69		
3228.48	-175	3230.364	TiII	(36)	$a^2G_{9/2}$-$y^2F_{7/2}$			69		
3233.73	-90	3234.705	VII	(61)	a^3D_3-y^3F_4			12		bl.
3233.73	-109	3234.901	FeI	(158)	z^7D_4-e^7P_4			12		
3236.01	-97	3237.052	TiII	(23)	$a^2D_{3/2}$-$y^2D_{3/2}$			23		
3236.01	-139	3237.512	TiII	(2)	$a^4F_{7/2}$-$z^4F_{7/2}$			23		
3239.04	-87	3239.979	TiII	(2)	$a^4F_{5/2}$-$z^4F_{5/2}$			17		
3239.04	-144	3240.598	TiII	(23)	$a^2D_{5/2}$-$y^2D_{3/2}$			17		
3241.34	-148	3242.930	TiII	(66)	$b^4P_{3/2}$-$y^4D_{3/2}$			14		
3248.42	-104	3249.542	TiII	(66)	$b^4P_{5/2}$-$y^4D_{7/2}$			41		
3252.79	-98	3253.855	TiII	(2)	$a^4F_{7/2}$-$z^4F_{5/2}$			13		
3252.79	-100	3253.879	TiII	(23)	$a^2D_{5/2}$-$y^2D_{5/2}$			13		
3254.07	-103	3255.186	TiII	(2)	$a^4F_{9/2}$-$z^4F_{7/2}$			18		
3255.92	-83	3256.826	FeII	(1)	$a^4D_{7/2}$-$z^6D_{7/2}$			19		
3261.39	-105	3262.525	TiII	(89)	$b^2G_{9/2}$-$z^2H_{11/2}$			44		
3261.39	-107	3262.557	TiII	(66)	$b^4P_{3/2}$-$y^4D_{5/2}$			44		
3267.46	-108	3268.632	VII	(7)	a^3F_2-z^3G_3			17		
3271.52	-99	3272.598	TiII	(66)	$b^4P_{5/2}$-$y^4D_{5/2}$			61		
3271.52	-137	3273.016	TiII	(66)	$b^4P_{1/2}$-$y^4D_{3/2}$			61		
3276.31	-69	3277.061	VII	(7)	a^3F_4-z^3G_5			59		
3276.31	-129	3277.716	TiII	(45)	$a^4P_{5/2}$-$z^4S_{3/2}$			59		
3278.15	-99	3279.237	TiII	(66)	$b^4P_{3/2}$-$y^4D_{3/2}$			60		

Table 2. Continued.

λ_{obs} (Å)	Velocity (km/s)	λ_{lab} (Å)	Ion	Mult.	Transition	I(mar00)	I(apr01)	I(nov01)	I(dec02)	Comment[a]
						(10^{-15} erg cm^{-2} s^{-1} arcsec^{-2})				
3278.15	-157	3279.868	TiII	(24)	$a^2D_{5/2}$-$z^2P_{3/2}$			60		
3282.06	-111	3283.271	TiII	(66)	$b^4P_{1/2}$-$y^4D_{1/2}$			55		
3287.72	-81	3288.608	TiII	(89)	$b^2G_{7/2}$-$z^2H_{9/2}$			47		
3287.72	-165	3289.531	TiII	(66)	$b^4P_{3/2}$-$y^4D_{1/2}$			47		
3295.98	-72	3296.766	FeII	(1)	$a^4D_{3/2}$-$z^6D_{3/2}$			14		
3298.60	-99	3299.684	VII	(7)	a^3F_4-z^3G_4			5		
3308.64	-101	3309.757	TiII	(7)	$b^4F_{7/2}$-$z^4F_{9/2}$			29		
3315.15	-102	3316.268	TiII	(65)	$b^4P_{1/2}$-$z^4S_{3/2}$			14		
3317.85	-102	3318.978	TiII	(7)	$b^4F_{5/2}$-$z^4F_{7/2}$			24		
3321.56	-99	3322.655	TiII	(65)	$b^4P_{3/2}$-$z^4S_{3/2}$			23		
3322.76	-103	3323.897	TiII	(7)	$b^4F_{9/2}$-$z^4F_{9/2}$			48		
3326.62	-101	3327.734	TiII	(7)	$b^4F_{3/2}$-$z^4F_{5/2}$			25		
3329.29	-101	3330.411	TiII	(7)	$b^4F_{7/2}$-$z^4F_{7/2}$			43		
3331.91	-105	3333.069	TiII	(65)	$b^4P_{5/2}$-$z^4S_{3/2}$			21		
3335.04	-101	3336.157	TiII	(7)	$b^4F_{5/2}$-$z^4F_{5/2}$			38		
3340.47	-77	3341.320	TiII	(7)	$b^4F_{3/2}$-$z^4F_{3/2}$			28		
3341.46	-124	3342.841	TiII	(16)	$a^2F_{5/2}$-$z^2G_{7/2}$			3		
3343.84	-80	3344.726	TiII	(7)	$b^4F_{9/2}$-$z^4F_{7/2}$			49		
3346.31	-125	3347.708	TiII	(7)	$b^4F_{7/2}$-$z^4F_{5/2}$			8		
3348.81	-107	3350.000	TiII	(16)	$a^2F_{7/2}$-$z^2G_{9/2}$			38		
3348.81	-90	3349.811	TiII	(7)	$b^4F_{5/2}$-$z^4F_{3/2}$			38		
3348.81	-140	3350.371	TiII	(1)	$a^4F_{9/2}$-$z^4G_{11/2}$			38		
3353.58	-99	3354.688	ScII	(12)	a^1D_2-z^1F_3			12		
3360.51	-150	3362.184	TiII	(1)	$a^4F_{7/2}$-$z^4G_{9/2}$			42		
3360.51	94	3359.456	CrII	(4)	$a^4D_{5/2}$-$z^6D_{3/2}$			42		bl.
3360.51	-12	3360.643	ScII	(4)	a^3D_2-z^3P_2			42		
3360.51	-154	3362.231	ScII	(4)	a^3D_1-z^3P_1			42		
3367.61	-125	3369.009	CrII	(3)	$a^4D_{7/2}$-$z^4P_{5/2}$			17		
3369.00	-80	3369.904	ScII	(4)	a^3D_2-z^3P_1			2		
3372.18	-83	3373.117	ScII	(4)	a^3D_3-z^3P_2			33		
3372.18	-89	3373.181	TiII	(16)	$a^2F_{7/2}$-$z^2G_{7/2}$			33		
3372.18	-141	3373.769	TiII	(1)	$a^4F_{5/2}$-$z^4G_{7/2}$			33		
3379.87			unid					19		
3379.87	-122	3381.250	TiII	(1)	$a^4F_{9/2}$-$z^4G_{9/2}$			19		
3383.14	-124	3384.541	TiII	(63)	$b^4P_{3/2}$-$y^2D_{5/2}$			15		
3383.14	-142	3384.740	TiII	(1)	$a^4F_{3/2}$-$z^4G_{5/2}$			15		
3387.64	-104	3388.819	TiII	(1)	$a^4F_{7/2}$-$z^4G_{7/2}$			29		
3391.76			unid					15		
3394.16	-123	3395.554	TiII	(63)	$b^4P_{5/2}$-$y^2D_{5/2}$			14		
3402.47	-82	3403.400	TiII	(54)	$a^2P_{1/2}$-$z^2P_{3/2}$			16		
3407.33	-212	3409.735	CrII	(4)	$a^4D_{7/2}$-$z^6D_{5/2}$			14		
3409.61	-105	3410.799	TiII	(1)	$a^4F_{7/2}$-$z^4G_{5/2}$			13		
3414.65			unid					7		
3416.15			unid					13		
3422.36	16	3422.183	CrII	(3)	$a^4D_{1/2}$-$z^4P_{1/2}$			25		
3422.36	-119	3423.714	CrII	(3)	$a^4D_{5/2}$-$z^4P_{3/2}$			25		
3438.51			unid					34		
3440.37	-107	3441.592	FeI	(6)	a^5D_4-z^5P_3			6		
3441.64	-116	3442.974	MnII	(3)	a^5D_4-z^5P_3			88		
3444.10	-105	3445.301	TiII	(6)	$b^4F_{9/2}$-$z^4G_{11/2}$			33		
3452.57	-78	3453.467	TiII	(99)	$b^2P_{1/2}$-$y^2P_{1/2}$			10		
3456.30	-94	3457.378	TiII	(99)	$b^2P_{3/2}$-$y^2P_{3/2}$			18		
3459.98	-115	3461.307	MnII	(3)	a^5D_3-z^5P_2			69		

Table 2. Continued.

λ_{obs} (Å)	Velocity (km/s)	λ_{lab} (Å)	Ion	Mult.	Transition	I(mar00)	I(apr01)	I(nov01)	I(dec02)	Comment[a]
						(10^{-15} erg cm^{-2} s^{-1} arcsec^{-2})				
3461.30	-103	3462.486	TiII	(6)	$b^4F_{7/2}$-$z^4G_{9/2}$			8		
3465.65	-105	3466.853	FeI	(6)	a^5D_1-z^5P_1			6		
3473.77	-110	3475.035	MnII	(3)	a^5D_3-z^5P_3			71		
3473.77	-117	3475.124	MnII	(3)	a^5D_2-z^5P_1			71		
3477.04	-99	3478.183	TiII	(6)	$b^4F_{5/2}$-$z^4G_{7/2}$			44		
3482.53	-118	3483.902	MnII	(3)	a^5D_2-z^5P_2			64		
3488.33	-116	3489.675	MnII	(3)	a^5D_1-z^5P_1			44		
3490.87	-103	3492.065	TiII	(6)	$b^4F_{3/2}$-$z^4G_{5/2}$			42		
3496.29	-47	3496.833	MnII	(3)	a^5D_0-z^5P_1			65		
3496.29	-130	3497.810	MnII	(3)	a^5D_3-z^5P_3			65		
3504.63	-109	3505.899	TiII	(88)	$b^2G_{9/2}$-$y^2G_{9/2}$			43		
3510.71	-98	3511.849	TiII	(88)	$b^2G_{7/2}$-$y^2G_{7/2}$			23		
3517.14	-100	3518.307	VII	(6)	a^3F_4-z^5D_3			20		
3520.10	-100	3521.271	TiII	(98)	$b^2P_{1/2}$-$x^2D_{3/2}$			18		
3524.48	-106	3525.719	VII	(5)	a^3F_3-z^3D_3			8		
3530.60	-100	3531.769	VII	(4)	a^3F_2-z^5F_1			15		
3535.27	-98	3536.420	TiII	(98)	$b^2P_{3/2}$-$x^2D_{5/2}$			17		
3535.27	-123	3536.725	ScII	(11)	a^1D_2-z^1P_1			17		
3545.08	-95	3546.206	VII	(5)	a^3F_3-z^3D_2			18		
3556.67	-97	3557.811	VII	(5)	a^3F_4-z^3D_3			25		
3558.28	-107	3559.548	ScII	(3)	a^3D_2-z^3D_3			9		
3565.58	-69	3566.397	FeI	(24)	a^5F_3-z^3G_4			2		
3565.58	-118	3566.986	TiII	(40)	$a^4P_{3/2}$-$z^2S_{1/2}$			2		
3567.64	-90	3568.715	ScII	(3)	a^3D_1-z^3D_2			11		
3569.98	-95	3571.116	FeI	(24)	a^5F_4-z^3G_5			14		
3572.34	-101	3573.546	ScII	(3)	a^3D_3-z^3D_3			8		bl. HP
3576.25	-93	3577.361	ScII	(3)	a^3D_2-z^3D_2			24		
3580.93	-86	3581.947	ScII	(3)	a^3D_1-z^3D_1			25		
3580.93	-108	3582.217	FeI	(23)	a^5F_5-z^5G_6			25		
3584.99	-114	3586.342	FeI	(23)	a^5F_3-z^5G_3			9		
3587.15	-72	3588.008	FeI	(23)	a^5F_2-z^5G_2			14		
3589.75	-76	3590.656	ScII	(3)	a^3D_2-z^3D_1			43		
3589.75	-85	3590.773	VII	(5)	a^3F_2-z^3D_1			43		
3589.75	-146	3591.499	ScII	(3)	a^3D_3-z^3D_2			43		
3591.91	-95	3593.050	VII	(4)	a^3F_3-z^5F_2			28		
3593.26	-92	3594.355	VII	(4)	a^3F_4-z^5F_3			23		
3595.90	-99	3597.078	TiII	(15)	$a^2F_{7/2}$-$z^4D_{5/2}$			19		
3600.62			unid					5		
3608.76	-94	3609.888	FeI	(23)	a^5F_1-z^5G_2			11		
3613.64	-101	3614.860	ScII	(2)	a^3D_3-z^3F_4			26		
3618.71	-90	3619.800	FeI	(23)	a^5F_2-z^5G_3			14		
3624.71	-95	3625.858	TiII	(52)	$a^2P_{1/2}$-$z^2S_{1/2}$			12		
3630.72	-87	3631.777	ScII	(2)	a^3D_2-z^3F_3			30		
3630.72	-147	3632.498	FeI	(23)	a^5F_3-z^5G_4			30		
3641.16	-100	3642.369	TiII	(52)	$a^2P_{3/2}$-$z^2S_{1/2}$			18		
3642.67	-95	3643.822	ScII	(2)	a^3D_1-z^3F_2			22		
3645.27	-89	3646.350	ScII	(2)	a^3D_3-z^3F_3			16		
3647.75	-93	3648.881	FeI	(23)	a^5F_4-z^5G_5			9		
3651.68	-95	3652.835	ScII	(2)	a^3D_2-z^3F_2			14		
3659.68	-92	3660.804	TiII	(75)	$b^2D_{5/2}$-$y^2F_{7/2}$			14		
3662.06	-100	3663.281	TiII	(75)	$b^2D_{3/2}$-$y^2F_{5/2}$			21		
3679.72	-101	3680.961	FeI	(5)	a^5D_4-z^5F_4			7		
3683.04	-87	3684.104	FeI	(5)	a^5D_3-z^5F_2			9		

Table 2. Continued.

λ_{obs} (Å)	Velocity (km/s)	λ_{lab} (Å)	Ion	Mult.	Transition	I(mar00)	I(apr01)	I(nov01)	I(dec02)	Comment[a]
						(10^{-15} erg cm^{-2} s^{-1} arcsec^{-2})				
3684.99	-102	3686.238	TiII	(14)	$a^2F_{5/2}$-$z^2D_{3/2}$			33		
3684.99	-103	3686.253	TiII	(14)	$a^2F_{7/2}$-$z^2D_{5/2}$			33		
3687.65			unid					11		
3697.79			unid					4		
3706.07	-98	3707.271	TiII	(72)	$b^2D_{3/2}$-$y^2D_{3/2}$			18		
3709.69	-50	3710.301	FeI	(21)	a^5F_4-y^5F_3			9		id?
3715.36	-96	3716.545	VII	(15)	a^3H_6-z^3G_5			13		
3719.87	-91	3720.993	FeI	(5)	a^5D_4-z^5F_5			12		
3721.59	-90	3722.698	TiII	(13)	$a^2F_{5/2}$-$z^2F_{7/2}$			16		
3727.36	-106	3728.679	FeI	(21)	a^5F_3-y^5F_2			18		
3732.73	-88	3733.824	VII	(15)	a^3H_5-z^3G_4			12		
3734.73	-96	3735.926	FeI	(21)	a^5F_5-y^5F_5			27		
3736.95	-100	3738.194	FeI	(5)	a^5D_3-z^5F_4			26		
3741.51	-95	3742.699	TiII	(72)	$b^2D_{5/2}$-$y^2D_{5/2}$			29		
3743.31	-90	3744.426	FeI	(21)	a^5F_2-y^5F_1			5		
3745.61	-102	3746.875	VII	(15)	a^3H_4-z^3G_3			17		
3745.61	-81	3746.626	FeI	(5)	a^5D_2-z^5F_3			17		
3748.02	-105	3749.327	FeI	(5)	a^5D_1-z^5F_2			5		
3749.44	-89	3750.551	FeI	(21)	a^5F_4-y^5F_4			27		
3750.98	-77	3751.944	VII	(21)	b^3F_3-z^3F_3			3		
3757.77	-79	3758.756	TiII	(73)	$b^2D_{3/2}$-$z^2P_{3/2}$			31		
3757.77	-122	3759.301	FeI	(21)	a^5F_3-y^5F_3			31		
3759.35	-81	3760.364	TiII	(13)	$a^2F_{7/2}$-$z^2F_{7/2}$			3		bl.
3761.14	-100	3762.392	TiII	(13)	$a^2F_{5/2}$-$z^2F_{5/2}$			29		
3763.66	-95	3764.858	FeI	(21)	a^5F_2-y^5F_2			13		
3767.10	-93	3768.262	FeI	(21)	a^5F_1-y^5F_1			8		
3770.87	-94	3772.046	VII	(21)	b^3F_2-z^3F_2			11		
3774.24	-132	3775.896	FeI	(73)	a^5P_1-w^5D_1			9		bl.
3774.24			unid					9		
3776.01	-88	3777.124	TiII	(73)	$b^2D_{5/2}$-$z^2P_{3/2}$			5		
3787.90	-84	3788.956	FeI	(21)	a^5F_1-y^5F_2			9		
3794.82	-100	3796.080	FeI	(21)	a^5F_2-y^5F_3			3		
3813.05	-111	3814.464	TiII	(12)	$a^2F_{7/2}$-$z^4F_{7/2}$	7		5		
3814.38	-101	3815.667	TiII	(12)	$a^2F_{5/2}$-$z^4F_{3/2}$	14		21		
3815.66	-99	3816.923	FeI	(45)	a^3F_4-y^3D_3	7		6		
3820.25	-99	3821.509	FeI	(20)	a^5F_5-y^5D_4	13		18		
3824.18	-106	3825.529	FeI	(4)	a^5D_4-z^5D_3			2		
3825.75	-95	3826.966	FeI	(20)	a^5F_4-y^5D_3	8		15		
3827.71	-94	3828.909	FeI	(45)	a^3F_3-y^3D_2	4		7		bl.
3834.10	-95	3835.310	FeI	(20)	a^5F_3-y^5D_2	8		12		
3836.01	-91	3837.173	TiII	(12)	$a^2F_{7/2}$-$z^4F_{5/2}$	21		16		
3840.51	-79	3841.526	FeI	(20)	a^5F_2-y^5D_1	11		12		
3842.80	-105	3844.140	ScII	(1)	a^3D_2-z^1D_2	2		3		
3849.83	-96	3851.061	FeI	(20)	a^5F_1-y^5D_0	4		5		
3856.35			unid			5		4		
3859.75	-98	3861.005	FeI	(4)	a^5D_4-z^5D_4	7		10		
3863.57	-98	3864.836	FeI	(280)	a^3G_5-w^5G_4	2		2		id?
3865.41	-94	3866.619	FeI	(20)	a^5F_1-y^5D_1	2		2		
3872.38	-94	3873.599	FeI	(20)	a^5F_2-y^5D_2	2		3		
3878.41	-98	3879.672	FeI	(4)	a^5D_2-z^5D_1	7		10		
3886.37	-78	3887.383	FeI	(4)	a^5D_3-z^5D_3	5		8		
3895.85	-108	3897.259	VII	(9)	a^3P_0-z^5F_1	3		4		
3900.32	-103	3901.656	TiII	(34)	$a^2G_{9/2}$-$z^2G_{9/2}$	21		25		

Table 2. Continued.

λ_{obs} (Å)	Velocity (km/s)	λ_{lab} (Å)	Ion	Mult.	Transition	I(mar00)	I(apr01)	I(nov01)	I(dec02)	Comment[a]
						(10^{-15} erg cm^{-2} s^{-1} arcsec^{-2})				
3903.05	-102	3904.374	VII	(11)	a^3P_2-z^5D_3	7		9		
3913.27	-100	3914.576	TiII	(34)	$a^2G_{7/2}$-$z^2G_{7/2}$	23		31		
3916.19	-102	3917.519	VII	(10)	a^3P_1-z^3D_2	5		7		
3932.39	-182	3934.777	CaII	(1)	$a^2S_{1/2}$-$a^2P_{3/2}$	10		19		
3951.84	-94	3953.083	VII	(10)	a^3P_2-z^3D_3	5		8		
3958.07			unid			1		1		
3967.27	-175	3969.592	CaII	(1)	$a^2S_{1/2}$-$a^2P_{1/2}$	19		29		
3991.21	-99	3992.530	[CrII]	(4F)	$a^6S_{5/2}$-$b^4D_{5/2}$	2		5		
3993.20	-86	3994.340	[CrII]	(4F)	$a^6S_{5/2}$-$b^4D_{1/2}$	8		8		
3993.20	-107	3994.620	[CrII]	(4F)	$a^6S_{5/2}$-$b^4D_{7/2}$	8		8		
3996.99	-95	3998.250	VII	(9)	a^3P_2-z^5F_3	4		6		
4005.44	-70	4006.373	FeI	(43)	a^3F_3-y^3F_2	7		9		
4005.44	-105	4006.838	VII	(32)	a^3G_5-z^3G_5	7		9		
4012.18	-100	4013.519	TiII	(11)	$a^2F_{5/2}$-$z^4G_{5/2}$	11		15		
4023.22	-97	4024.525	VII	(32)	a^3G_4-z^3G_4	4		6		
4024.97	-97	4026.269	TiII	(11)	$a^2F_{7/2}$-$z^4G_{7/2}$	7		9		
4028.14	-100	4029.481	TiII	(87)	$b^2G_{9/2}$-$y^2F_{7/2}$	7		11		
4035.54	-91	4036.767	VII	(32)	a^3G_3-z^3G_3	6		6		
4045.65	-97	4046.956	FeI	(43)	a^3F_4-y^3F_4	9		11		
4053.65	-98	4054.979	TiII	(87)	$b^2G_{7/2}$-$y^2F_{5/2}$	5		6		
4063.37	-101	4064.742	FeI	(43)	a^3F_3-y^3F_3	3	5	5		
4071.40	-110	4072.887	FeI	(43)	a^3F_2-y^3F_2	6	7	7		
4077.49	-101	4078.860	SrII	(1)	$a^2S_{1/2}$-$a^2P_{3/2}$	12	13	13		
4143.72	-95	4145.038	FeI	(43)	a^3F_3-y^3F_4	3	4	3		
4149.13	-102	4150.535	FeI	(694)	z^5F_5-e^7G_6	3	4	4		id?
4152.30	-105	4153.755	[CoII]	(–)	a^3F_4-b^3P_2	7	6	7		id?
4161.25	-105	4162.708	TiII	(21)	$a^2D_{5/2}$-$z^4D_{7/2}$	3	4	4		
4163.45	-99	4164.822	TiII	(105)	$b^2F_{7/2}$-$x^2D_{5/2}$	11	13	13		
4171.68	-101	4173.086	TiII	(105)	$b^2F_{5/2}$-$x^2D_{3/2}$	8	9	9		
4173.39	-95	4174.713	TiII	(21)	$a^2D_{5/2}$-$z^4D_{5/2}$	5	6	5		
4201.82	-99	4203.212	FeI	(42)	a^3F_4-z^3G_4	10	6	9		
4215.29	-101	4216.706	SrII	(1)	$a^2S_{1/2}$-$a^2P_{1/2}$	7	10	11		
4226.52	-99	4227.918	CaI	(2)	a^1S_0-a^1P_1	11	12	12		
4246.49	-108	4248.018	ScII	(7)	a^1D_2-z^1D_2	19	25	17		
4271.55	-99	4272.961	FeI	(42)	a^3F_4-z^3G_5	8	9	8		
4289.89	-107	4291.426	TiII	(41)	$a^4P_{3/2}$-$z^4D_{5/2}$	56	36	35		
4293.81	-105	4295.307	TiII	(20)	$a^2D_{5/2}$-$z^2D_{5/2}$	22	25	26		
4293.81	-106	4295.332	FeI	(41)	a^3F_4-z^5G_4	22		26		
4299.75	-105	4301.259	TiII	(41)	$a^4P_{5/2}$-$z^4D_{7/2}$	48	64	65		
4301.66	-102	4303.124	TiII	(41)	$a^4P_{1/2}$-$z^4D_{3/2}$	13		14		
4305.24			unid				8	6		
4307.60	-103	4309.075	TiII	(41)	$a^4P_{3/2}$-$z^4D_{3/2}$	24	28	27		
4307.60	-105	4309.114	FeI	(42)	a^3F_3-z^3G_4	24		27		
4312.64	-100	4314.076	TiII	(41)	$a^4P_{5/2}$-$z^4D_{5/2}$	20	23	24		
4314.07	-85	4315.296	ScII	(15)	a^3F_4-z^3D_3	28	36	29		
4320.51	-100	4321.947	ScII	(15)	a^3F_3-z^3D_2	39	29	26		
4324.84	-95	4326.212	ScII	(15)	a^3F_2-z^3D_1	14	28	28		
4324.84	-181	4327.453	[NiII]	(4F)	$a^2D_{5/2}$-$a^4P_{5/2}$		25	28		
4330.31	-80	4331.463	TiII	(93)	$b^2P_{1/2}$-$y^2D_{3/2}$			4		
4337.68	-101	4339.135	TiII	(20)	$a^2D_{3/2}$-$z^2D_{3/2}$		31	30		
4341.39	-83	4342.585	TiII	(32)	$a^2G_{7/2}$-$z^2D_{5/2}$		23	14		
4367.40	-102	4368.886	TiII	(104)	$b^2F_{7/2}$-$y^2G_{9/2}$		4	4		
4374.35	-92	4375.686	ScII	(14)	a^3F_4-z^3F_4		23	14		

Table 2. Continued.

λ_{obs} (Å)	Velocity (km/s)	λ_{lab} (Å)	Ion	Mult.	Transition	I(mar00)	I(apr01)	I(nov01)	I(dec02)	Comment[a]
						(10^{-15} erg cm^{-2} s^{-1} arcsec^{-2})				
4383.33	-99	4384.776	FeI	(41)	a^3F_4-z^5G_5		17	14		
4394.80	-100	4396.268	TiII	(19)	$a^2D_{5/2}$-$z^2F_{7/2}$		46	43		
4399.80	-83	4401.008	TiII	(51)	$a^2P_{3/2}$-$z^4D_{5/2}$		29	27		
4399.80	-125	4401.625	ScII	(14)	a^3F_3-z^3F_3			27		
4404.65	-91	4405.987	FeI	(41)	a^3F_3-z^5G_4		8	6		
4415.16	-82	4416.362	FeI	(41)	a^3F_2-z^5G_3		50	44		
4415.16	-111	4416.797	ScII	(14)	a^3F_2-z^3F_2			44		
4417.43	-104	4418.960	TiII	(40)	$a^4P_{3/2}$-$z^2D_{5/2}$		43	29		
4427.25			unid				2	2		
4443.61	-97	4445.042	TiII	(19)	$a^2D_{3/2}$-$z^2F_{5/2}$		40	40		
4450.39	-91	4451.731	TiII	(19)	$a^2D_{5/2}$-$z^2F_{5/2}$		14	14		
4464.25	-98	4465.703	TiII	(40)	$a^4P_{1/2}$-$z^2D_{3/2}$		8	5		
4468.31	-97	4469.761	TiII	(31)	$a^2G_{9/2}$-$z^2F_{7/2}$		47	45		
4482.13	-93	4483.510	FeI	(68)	a^5P_1-x^5D_2		2	2		
4501.08	-97	4502.536	TiII	(31)	$a^2G_{7/2}$-$z^2F_{5/2}$		41	39		
4533.73	-100	4535.240	TiII	(50)	$a^2P_{3/2}$-$z^2D_{5/2}$		41	39		
4549.45	-95	4550.892	TiII	(84)	$a^2H_{11/2}$-$y^2G_{9/2}$		40	41		
4563.54	-99	4565.040	TiII	(50)	$a^2P_{1/2}$-$z^2D_{3/2}$		40	40		
4571.70	-102	4573.249	TiII	(84)	$a^2H_{9/2}$-$y^2G_{7/2}$		46	42		
4580.60	-97	4582.088	[CrII]	(3F)	$a^6S_{5/2}$-$a^4P_{3/2}$		13	12		
4580.60	-101	4582.145	[CrII]	(3F)	$a^6S_{5/2}$-$a^4P_{1/2}$			12		
4580.60	-119	4582.422	[CrII]	(3F)	$a^6S_{5/2}$-$a^4P_{1/2}$			12		
4589.77	-96	4591.244	TiII	(50)	$a^2P_{3/2}$-$z^2D_{3/2}$		9	8		
4622.89	-39	4623.490	[FeI]	(21F)	a^5F_3-b^3D_2			6		
4670.19	-98	4671.714	ScII	(24)	b^1D_2-z^1F_3			4		
4708.47	-97	4709.983	TiII	(49)	$a^2P_{3/2}$-$z^2F_{5/2}$			2		id?. bl. abs
4747.17			unid					9		
4763.86			unid					4		
4779.51	-114	4781.321	TiII	(92)	$b^2P_{1/2}$-$z^2S_{1/2}$			7		
4802.32			unid					7		
4804.82	-101	4806.428	TiII	(92)	$b^2P_{3/2}$-$z^2S_{1/2}$			7		
4843.00	-105	4844.701	[FeI]	(4F)	a^5D_4-b^3F2_4	2	3	4		id?
4916.68	-96	4918.247	[TiII]	(23F)	$a^2F_{5/2}$-$c^2D_{3/2}$	9	9	11		
4925.63	-101	4927.288	[TiII]	(23F)	$a^2F_{7/2}$-$c^2D_{5/2}$	6	19	20		
4982.44	-106	4984.205	[TiII]	(23F)	$a^2F_{7/2}$-$c^2D_{3/2}$	1	1	2		
5030.86	-93	5032.424	ScII	(23)	b^1D_2-z^3P_1	3	5	5		
5128.89	-99	5130.581	TiII	(86)	$b^2G_{9/2}$-$z^2G_{9/2}$			3		
5153.70	-105	5155.506	TiII	(70)	$b^2D_{3/2}$-$z^2D_{5/2}$			5		
5188.38	-101	5190.125	TiII	(70)	$b^2D_{5/2}$-$z^2D_{5/2}$			14		
5211.25	-100	5212.987	TiII	(103)	$b^2F_{7/2}$-$y^2F_{7/2}$			1		
5226.00	-115	5227.998	TiII	(70)	$b^2D_{3/2}$-$z^2D_{3/2}$			15		
5239.54	-99	5241.272	ScII	(26)	a^1S_0-z^1P_1			3		
5253.20			unid					1		
5303.74			unid					3		
5327.73	-101	5329.520	FeI	(15)	a^5F_4-z^5D_3			2		
5371.29	-95	5372.983	FeI	(15)	a^5F_3-z^5D_2			1		
5394.10	-90	5395.713	[MnII]	(9F)	a^5D_4-b^5D_2			6		
5394.10	-121	5396.266	[MnII]	(9F)	a^5D_4-b^5D_3			6		
5414.34	-121	5416.528	[MnII]	(9F)	a^5D_4-b^5D_4			18		bl.
5418.60	-92	5420.257	TiII	(69)	$b^2D_{5/2}$-$z^2F_{5/2}$			3		
5470.63			unid					7		
5472.97	-104	5474.872	[MnII]	(9F)	a^5D_3-b^5D_2			9		
5472.97	-135	5475.440	[MnII]	(9F)	a^5D_3-b^5D_3			9		

Table 2. Continued.

λ_{obs} (Å)	Velocity (km/s)	λ_{lab} (Å)	Ion	Mult.	Transition	I(mar00)	I(apr01)	I(nov01)	I(dec02)	Comment[a]
						(10^{-15} erg cm^{-2} s^{-1} arcsec^{-2})				
5494.38	-105	5496.302	[MnII]	(9F)	a^5D_3-b^5D_4			7		
5526.53	-97	5528.325	ScII	(31)	a^1G_4-z^1F_3			14		
5559.85			unid					4		
5599.35			unid					1		
5639.42	-91	5641.119	[FeI]	(2F)	a^5D_4-a^5P_2			12		
5639.42	-168	5642.567	ScII	(29)	a^3P_1-z^3P_2			12		bl.
5657.74	-92	5659.466	ScII	(29)	a^3P_2-z^3P_2			8		
5657.74	-116	5659.931	ScII	(29)	a^3P_0-z^3P_1			8		
5696.03	-101	5697.949	[FeI]	(2F)	a^5D_4-a^5P_3			11		
5708.73	-96	5710.551	[FeI]	(2F)	a^5D_3-a^5P_1			6		
5804.07	-103	5806.063	[FeI]	(2F)	a^5D_2-a^5P_1			4		
5834.42	-95	5836.266	[FeI]	(2F)	a^5D_3-a^5P_3			10		
5889.25	-119	5891.583	NaI	(1)	$a^2S_{1/2}$-$a^2P_{3/2}$			77		
5895.29	-115	5897.558	NaI	(1)	$a^2S_{1/2}$-$a^2P_{1/2}$			84		
5934.02	-104	5936.067	[FeI]	(2F)	a^5D_2-a^5P_3			4		
5936.54	-106	5938.647	[FeI]	(2F)	a^5D_1-a^5P_2			3		
6077.80	-87	6079.567	[TiII]	(26F)	$a^2D_{5/2}$-$c^2D_{5/2}$			3		
6124.37	-95	6126.311	[TiII]	(22F)	$a^2F_{5/2}$-$b^2F_{5/2}$			11		
6147.20	-83	6148.896	[TiII]	(22F)	$a^2F_{5/2}$-$b^2F_{7/2}$			3		
6151.75	-91	6153.623	[TiII]	(26F)	$a^2D_{3/2}$-$c^2D_{3/2}$			5		
6160.44			unid					2		
6219.08			unid					2		
6227.10	-91	6228.990	[TiII]	(22F)	$a^2F_{7/2}$-$b^2F_{5/2}$			2		
6250.37	-95	6252.341	[TiII]	(22F)	$a^2F_{7/2}$-$b^2F_{7/2}$			18		
6279.56	-92	6281.490	ScII	(28)	a^3P_1-z^3D_2			2		
6410.66	-105	6412.900	[MnII]	(8F)	a^5D_4-a^5P_2			6		
6422.96	-106	6425.224	[MnII]	(8F)	a^5D_4-a^5P_3			7		
6509.14	-106	6511.434	[MnII]	(8F)	a^5D_3-a^5P_1	7	7	9		
6519.09	-101	6521.281	[CoII]	(–)	b^3F_4-b^1G_4	4	4	6		
6535.55	-103	6537.786	[MnII]	(8F)	a^5D_3-a^5P_3	6	6	5		
6647.03	-88	6648.980	[TiII]	(8F)	$a^4F_{7/2}$-$b^2G_{7/2}$	2	2	1		
6650.29	-105	6652.610	[TiII]	(8F)	$a^4F_{7/2}$-$b^2G_{9/2}$	2	2	2		
6656.38	-99	6658.570	[MnII]	(8F)	a^5D_1-a^5P_2	1	2	2		
6666.25	-109	6668.670	[NiII]	(2F)	$a^2D_{5/2}$-$a^2F_{5/2}$	52	45	51		
6725.49	-97	6727.670	[TiII]	(8F)	$a^4F_{9/2}$-$b^2G_{9/2}$	4	5	6		
6738.23	-89	6740.230	[SrII]	(1F)	$a^2S_{1/2}$-$a^2D_{5/2}$	3	4	4		
6760.48	-89	6762.484	[FeI]	(15F)	a^5F_5-a^3G_5	2	3	4		
6791.25	-93	6793.350	[NiII]	(8F)	$a^4F_{5/2}$-$a^4P_{1/2}$	0.5	1	1		
6813.94	-66	6815.450	[NiII]	(8F)	$a^4F_{5/2}$-$a^4P_{3/2}$	5	4	7		
6836.79	-90	6838.838	[FeI]	(15F)	a^5F_4-a^3G_4	1	2	1		
6849.33	-126	6852.215	[MnII]	(2F)	a^7S_3-a^5D_3	0.5	1	1		
6868.05	-88	6870.070	[SrII]	(1F)	$a^2S_{1/2}$-$a^2D_{3/2}$	1	3	3		
6923.30	-106	6925.736	[CoII]	(–)	b^3F_3-b^1G_4	1	2	2		
6931.35	-126	6934.270	[CoII]	(3F)	a^5F_5-a^5P_3	5	6	8		
6971.58	-104	6974.000	[FeI]	(15F)	a^5F_4-a^3G_5	1	0.5	1		
6977.73	-114	6980.380	[MnII]	(2F)	a^7S_3-a^5D_4	0.5	1	1		
6998.68			unid			2	2	2		
7004.46	-116	7007.180	[FeI]	(15F)	a^5F_3-a^3G_4	1	2	2		
7099.61	-110	7102.208	[CoII]	(–)	a^3P_1-a^3D_3	4	4	5		id?
7256.06	-74	7257.860	[NiII]	(8F)	$a^4F_{7/2}$-$a^4P_{5/2}$	6	8	9		
7274.08	-103	7276.590	[CoII]	(3F)	a^5F_4-a^5P_3		2	2		bl
7290.79	-111	7293.480	[CaII]	(1F)	$a^2S_{1/2}$-$a^2D_{5/2}$	35	43	46		
7323.11	-115	7325.910	[CaII]	(1F)	$a^2S_{1/2}$-$a^2D_{3/2}$	61	62	73		

Table 2. Continued.

λ_{obs} (Å)	Velocity (km/s)	λ_{lab} (Å)	Ion	Mult.	Transition	I(mar00)	I(apr01)	I(nov01)	I(dec02)	Comment[a]
						(10^{-15} erg cm^{-2} s^{-1} arcsec^{-2})				
7331.89	-89	7334.077	[VII]	(4F)	a^5D_2-a^5P_3	7	7	8		
7343.90	-87	7346.030	[VII]	(12F)	a^5F_3-b^3G_4		2	2		
7353.97	-74	7355.792	[VII]	(4F)	a^5D_0-a^5P_2	3	4	5		
7377.22	-112	7379.970	[NiII]	(2F)	$a^2D_{5/2}$-$a^2F_{7/2}$	188	170	213		
7411.22	-100	7413.690	[NiII]	(2F)	$a^2D_{3/2}$-$a^2F_{5/2}$	109	83	98		
7426.27			unid			4	5	7		
7430.71			unid			2	3	4		
7458.61	-110	7461.350	[VII]	(4F)	a^5D_4-a^5P_3	23	22	24		
7458.61	-162	7462.648	[VII]	(3F)	a^5D_3-b^3F_4	23		24		
7476.97	-94	7479.321	[VII]	(12F)	a^5F_5-b^3G_5	2	4	5		
7497.38	-95	7499.749	[VII]	(3F)	a^5D_3-b^3F_3	4	4	4		
7514.82	-94	7517.180	[VII]	(4F)	a^5D_3-a^5P_1	8	10	10		
7533.52	-96	7535.937	[VII]	(3F)	a^5D_4-b^3F_4	7	6	8		
7541.65	-94	7544.026	[VII]	(4F)	a^5D_4-a^5P_2	12	12	15		
7546.96	-113	7549.797	[MnII]	(7F)	a^5D_4-a^5G_5	5	5	5		
7546.96	-121	7549.997	[VII]	(–)	a^5P_2-a^1F_3	5		5		
7560.51	-119	7563.501	[MnII]	(7F)	a^5D_4-a^5G_6	37	40	39		
7664.71			unid					13		
7702.69	-117	7705.686	[MnII]	(7F)	a^5D_3-a^5G_5			12		
7749.18			unid					4		
7805.16	-111	7808.041	[MnII]	(7F)	a^5D_2-a^5G_3			7		
7805.16	-92	7807.566	[MnII]	(7F)	a^5D_2-a^5G_2			7		
7808.06	-115	7811.048	[MnII]	(7F)	a^5D_2-a^5G_4			6		
7878.66	-105	7881.401	[MnII]	(7F)	a^5D_1-a^5G_2			8		
7915.30	-119	7918.452	[TiII]	(6F)	$a^4F_{3/2}$-$b^2D_{3/2}$			3		
7976.40	-56	7977.897	[TiII]	(6F)	$a^4F_{5/2}$-$b^2D_{3/2}$			6		
7976.40	-110	7979.330	[TiII]	(6F)	$a^4F_{7/2}$-$b^2D_{5/2}$			6		
7999.22	-115	8002.279	[CrII]	(1F)	$a^6S_{5/2}$-$a^6D_{9/2}$			66		
8050.43			unid					3		
8124.09	-127	8127.531	[CrII]	(1F)	$a^6S_{5/2}$-$a^6D_{7/2}$			85		
8228.60	-121	8231.930	[CrII]	(1F)	$a^6S_{5/2}$-$a^6D_{5/2}$			75		
8260.96	-90	8263.438	[ScII]	(3F)	a^3D_1-a^3P_1			2		
8270.91	-96	8273.557	[ScII]	(3F)	a^3D_2-a^3P_2			3		
8300.15	-113	8303.270	[NiII]	(2F)	$a^2D_{3/2}$-$a^2F_{7/2}$			10		
8307.20	-129	8310.770	[CrII]	(1F)	$a^6S_{5/2}$-$a^6D_{3/2}$			57		
8326.54	-85	8328.905	[ScII]	(3F)	a^3D_2-a^3P_0			2		
8332.81	-100	8335.590	[TiII]	(–)	$a^2F_{5/2}$-$b^2P_{3/2}$			2		
8347.07	-101	8349.870	[FeI]	(1F)	a^5D_4-a^3F_4			5		
8347.07	-90	8349.570	[ScII]	(3F)	a^3D_3-a^3P_2			5		
8356.68	-117	8359.939	[CrII]	(1F)	$a^6S_{5/2}$-$a^6D_{1/2}$			26		
8409.61	-98	8412.354	[TiII]	(–)	$a^2F_{5/2}$-$b^2P_{1/2}$			7		
8470.28	-110	8473.399	[VII]	(2F)	a^5D_2-a^3P_2			7		id? bl. HI
8497.15	-113	8500.358	CaII	(2)	$a^2D_{3/2}$-$z^2P_{3/2}$			1		
8524.19	-99	8526.997	[TiII]	(–)	$a^2F_{5/2}$-$b^2P_{3/2}$			14		
8529.22	-95	8531.906	[TiII]	(15F)	$b^4F_{3/2}$-$b^2D_{3/2}$			11		
8540.98	-121	8544.438	CaII	(2)	$a^2D_{5/2}$-$z^2P_{3/2}$			37		
8565.44	-104	8568.400	[TiII]	(15F)	$b^4F_{7/2}$-$b^2D_{5/2}$			6		
8584.56	-103	8587.494	[TiII]	(15F)	$b^4F_{5/2}$-$b^2D_{3/2}$			5		
8661.10	-94	8663.807	[TiII]	(15F)	$b^4F_{9/2}$-$b^2D_{5/2}$			53		
8661.10	-116	8664.452	[TiII]	(15F)	$b^4F_{7/2}$-$b^2D_{3/2}$			53		
8661.10	-118	8664.520	CaII	(2)	$a^2D_{3/2}$-$z^2P_{1/2}$			53		
8674.12			unid					2		
8698.34			unid					2		

Table 2. Continued.

λ_{obs} (Å)	Velocity (km/s)	λ_{lab} (Å)	Ion	Mult.	Transition	I(mar00)	I(apr01)	I(nov01)	I(dec02)	Comment[a]
						(10^{-15} erg cm^{-2} s^{-1} arcsec^{-2})				
8726.82	-93	8729.523	[CI]	(3F)	a^1D_2-a^1S_0			15		
8762.84	-97	8765.679	[VII]	(2F)	a^5D_2-a^3P_1			7		
8806.31			unid					4		
8878.60	-94	8881.373	[VII]	(2F)	a^5D_1-a^3P_0			5		
9334.98	-110	9338.400	[CoII]	(1F)	a^3F_4-b^3F_3	2		6		
9341.82			unid			1		4		
9405.00	-107	9408.356	[TiII]	(21F)	$a^2F_{5/2}$-$b^2G_{9/2}$	6		3		
9638.81	-95	9641.850	[CoII]	(1F)	a^3F_3-b^3F_2	4		4		
9642.18	-90	9645.089	[TiII]	(21F)	$a^2F_{7/2}$-$b^2G_{7/2}$	1		0.4		
9649.74	-92	9652.716	[TiII]	(21F)	$a^2F_{7/2}$-$b^2G_{9/2}$	1		2		
9824.56	-69	9826.822	[CI]	(1F)	a^3P_1-a^1D_2	0.3		1		
9850.24	-83	9852.965	[CI]	(1F)	a^3P_2-a^1D_2	2		2		
10066.4	-100	10069.740	[TiII]	(5F)	$a^4F_{5/2}$-$b^4P_{5/2}$	5		3		
10066.4	-103	10069.850	[TiII]	(5F)	$a^4F_{3/2}$-$b^4P_{3/2}$	5		3		
10125.73	-90	10128.770	[TiII]	(5F)	$a^4F_{3/2}$-$b^4P_{1/2}$	5		7		

[a] Abbreviations used in the comment column:
bl.=lines blended by features not included in the list.
bl.abs=lines being partially blended by an absorption feature.
bl.HP=lines affected by hot pixels.
id?=identification uncertain.
Filament lines with more than one plausible identification are listed with the same measured wavelength, λ_{obs}, in column 1 but are not explicitly marked as blends in the Comment column.

Table 3. Spectral lines observed in the Sr-filament of η Car in the wavelength region 2480-10140 Å. The lines are primarily sorted by ion and within each ion by excitation energy.

Velocity (km/s)	λ_{lab} (Å)	Ion	Mult.	Transition	E_{exc} (eV)
-69	9826.822	[CI]	(1F)	a^3P_1-a^1D_2	1.3
-83	9852.965	[CI]	(1F)	a^3P_2-a^1D_2	1.3
-93	8729.523	[CI]	(3F)	a^1D_2-a^1S_0	2.7
-115	5897.558	NaI	(1)	$a^2S_{1/2}$-$a^2P_{1/2}$	2.1
-119	5891.583	NaI	(1)	$a^2S_{1/2}$-$a^2P_{3/2}$	2.1
-95	2852.964	MgI	(uv1)	a^1S_0-a^1P_1	4.3
-99	2669.949	AlII	(uv1)	a^1S_0-a^3P_1	4.6
-99	4227.918	CaI	(2)	a^1S_0-a^1P_1	2.9
-175	3969.592	CaII	(1)	$a^2S_{1/2}$-$a^2P_{1/2}$	3.1
-118	8664.520	CaII	(2)	$a^2D_{3/2}$-$z^2P_{1/2}$	3.1
-182	3934.777	CaII	(1)	$a^2S_{1/2}$-$a^2P_{3/2}$	3.2
-113	8500.358	CaII	(2)	$a^2D_{3/2}$-$z^2P_{3/2}$	3.2
-121	8544.438	CaII	(2)	$a^2D_{5/2}$-$z^2P_{3/2}$	3.2
-115	7325.910	[CaII]	(1F)	$a^2S_{1/2}$-$a^2D_{3/2}$	1.7
-111	7293.480	[CaII]	(1F)	$a^2S_{1/2}$-$a^2D_{5/2}$	1.7
-12	3360.643	ScII	(4)	a^3D_2-z^3P_2	3.0
-105	3844.140	ScII	(1)	a^3D_2-z^1D_2	3.2
-108	4248.018	ScII	(7)	a^1D_2-z^1D_2	3.2
-111	4416.797	ScII	(14)	a^3F_2-z^3F_2	3.4
-125	4401.625	ScII	(14)	a^3F_3-z^3F_3	3.4
-95	3643.822	ScII	(2)	a^3D_1-z^3F_2	3.4
-95	3652.835	ScII	(2)	a^3D_2-z^3F_2	3.4
-87	3631.777	ScII	(2)	a^3D_2-z^3F_3	3.4
-89	3646.350	ScII	(2)	a^3D_3-z^3F_3	3.4
-92	4375.686	ScII	(14)	a^3F_4-z^3F_4	3.5
-95	4326.212	ScII	(15)	a^3F_2-z^3D_1	3.5
-100	4321.947	ScII	(15)	a^3F_3-z^3D_2	3.5
-85	4315.296	ScII	(15)	a^3F_4-z^3D_3	3.5
-101	3614.860	ScII	(2)	a^3D_3-z^3F_4	3.5
-92	6281.490	ScII	(28)	a^3P_1-z^3D_2	3.5
-86	3581.947	ScII	(3)	a^3D_1-z^3D_1	3.5
-90	3568.715	ScII	(3)	a^3D_1-z^3D_2	3.5
-76	3590.656	ScII	(3)	a^3D_2-z^3D_1	3.5
-93	3577.361	ScII	(3)	a^3D_2-z^3D_2	3.5
-107	3559.548	ScII	(3)	a^3D_2-z^3D_3	3.5
-146	3591.499	ScII	(3)	a^3D_3-z^3D_2	3.5
-101	3573.546	ScII	(3)	a^3D_3-z^3D_3	3.5
-116	5659.931	ScII	(29)	a^3P_0-z^3P_1	3.7
-168	5642.567	ScII	(29)	a^3P_1-z^3P_2	3.7
-92	5659.466	ScII	(29)	a^3P_2-z^3P_2	3.7
-154	3362.231	ScII	(4)	a^3D_1-z^3P_1	3.7
-80	3369.904	ScII	(4)	a^3D_2-z^3P_1	3.7
-83	3373.117	ScII	(4)	a^3D_3-z^3P_2	3.7
-123	3536.725	ScII	(11)	a^1D_2-z^1P_1	3.8
-93	5032.424	ScII	(23)	b^1D_2-z^3P_1	3.8
-99	5241.272	ScII	(26)	a^1S_0-z^1P_1	3.8
-99	3354.688	ScII	(12)	a^1D_2-z^1F_3	4.0
-98	4671.714	ScII	(24)	b^1D_2-z^1F_3	4.0
-97	5528.325	ScII	(31)	a^1G_4-z^1F_3	4.0
-93	2563.958	ScII	(uv1)	a^3D_1-y^3P_0	4.8
-288	2560.996	ScII	(uv1)	a^3D_2-y^3P_1	4.8
-83	2541.585	ScII	(uv1)	a^3D_1-y^3P_2	4.9
-105	2545.967	ScII	(uv1)	a^3D_2-y^3P_2	4.9
-93	2553.120	ScII	(uv1)	a^3D_3-y^3P_2	4.9
-90	8263.438	[ScII]	(3F)	a^3D_1-a^3P_1	1.5
-85	8328.905	[ScII]	(3F)	a^3D_2-a^3P_0	1.5
-96	8273.557	[ScII]	(3F)	a^3D_2-a^3P_2	1.5
-90	8349.570	[ScII]	(3F)	a^3D_3-a^3P_2	1.5
-142	3384.740	TiII	(1)	$a^4F_{3/2}$-$z^4G_{5/2}$	3.7
-141	3373.769	TiII	(1)	$a^4F_{5/2}$-$z^4G_{7/2}$	3.7
-105	3410.799	TiII	(1)	$a^4F_{7/2}$-$z^4G_{5/2}$	3.7
-104	3388.819	TiII	(1)	$a^4F_{7/2}$-$z^4G_{7/2}$	3.7
-150	3362.184	TiII	(1)	$a^4F_{7/2}$-$z^4G_{9/2}$	3.7
-140	3350.371	TiII	(1)	$a^4F_{9/2}$-$z^4G_{11/2}$	3.7
-122	3381.250	TiII	(1)	$a^4F_{9/2}$-$z^4G_{9/2}$	3.7
-100	4013.519	TiII	(11)	$a^2F_{5/2}$-$z^4G_{5/2}$	3.7
-97	4026.269	TiII	(11)	$a^2F_{7/2}$-$z^4G_{7/2}$	3.7
-103	3492.065	TiII	(6)	$b^4F_{3/2}$-$z^4G_{5/2}$	3.7
-99	3478.183	TiII	(6)	$b^4F_{5/2}$-$z^4G_{7/2}$	3.7
-103	3462.486	TiII	(6)	$b^4F_{7/2}$-$z^4G_{9/2}$	3.7
-105	3445.301	TiII	(6)	$b^4F_{9/2}$-$z^4G_{11/2}$	3.7
-123	3395.554	TiII	(63)	$b^4P_{5/2}$-$y^2D_{5/2}$	3.7
-101	3815.667	TiII	(12)	$a^2F_{5/2}$-$z^4F_{3/2}$	3.8
-91	3837.173	TiII	(12)	$a^2F_{7/2}$-$z^4F_{5/2}$	3.8
-153	3230.130	TiII	(2)	$a^4F_{3/2}$-$z^4F_{5/2}$	3.8
-87	3239.979	TiII	(2)	$a^4F_{5/2}$-$z^4F_{5/2}$	3.8
-98	3253.855	TiII	(2)	$a^4F_{7/2}$-$z^4F_{5/2}$	3.8
-148	3242.930	TiII	(66)	$b^4P_{3/2}$-$y^4D_{3/2}$	3.8
-77	3341.320	TiII	(7)	$b^4F_{3/2}$-$z^4F_{3/2}$	3.8
-101	3327.734	TiII	(7)	$b^4F_{3/2}$-$z^4F_{5/2}$	3.8
-90	3349.811	TiII	(7)	$b^4F_{5/2}$-$z^4F_{3/2}$	3.8
-101	3336.157	TiII	(7)	$b^4F_{5/2}$-$z^4F_{5/2}$	3.8
-125	3347.708	TiII	(7)	$b^4F_{7/2}$-$z^4F_{5/2}$	3.8
-111	3814.464	TiII	(12)	$a^2F_{7/2}$-$z^4F_{7/2}$	3.9
-100	3762.392	TiII	(13)	$a^2F_{5/2}$-$z^2F_{5/2}$	3.9
-90	3722.698	TiII	(13)	$a^2F_{5/2}$-$z^2F_{7/2}$	3.9
-81	3760.364	TiII	(13)	$a^2F_{7/2}$-$z^2F_{7/2}$	3.9
-102	3686.238	TiII	(14)	$a^2F_{5/2}$-$z^2D_{3/2}$	3.9
-97	4445.042	TiII	(19)	$a^2D_{3/2}$-$z^2F_{5/2}$	3.9
-91	4451.731	TiII	(19)	$a^2D_{5/2}$-$z^2F_{5/2}$	3.9
-100	4396.268	TiII	(19)	$a^2D_{5/2}$-$z^2F_{7/2}$	3.9
-119	3223.774	TiII	(2)	$a^4F_{5/2}$-$z^4F_{7/2}$	3.9
-139	3237.512	TiII	(2)	$a^4F_{7/2}$-$z^4F_{7/2}$	3.9
-122	3217.992	TiII	(2)	$a^4F_{7/2}$-$z^4F_{9/2}$	3.9
-103	3255.186	TiII	(2)	$a^4F_{9/2}$-$z^4F_{7/2}$	3.9
-101	4339.135	TiII	(20)	$a^2D_{3/2}$-$z^2D_{3/2}$	3.9
-97	4502.536	TiII	(31)	$a^2G_{7/2}$-$z^2F_{5/2}$	3.9
-97	4469.761	TiII	(31)	$a^2G_{9/2}$-$z^2F_{7/2}$	3.9
-98	4465.703	TiII	(40)	$a^4P_{1/2}$-$z^2D_{3/2}$	3.9
-97	4709.983	TiII	(49)	$a^2P_{3/2}$-$z^2F_{5/2}$	3.9
-99	4565.040	TiII	(50)	$a^2P_{1/2}$-$z^2D_{3/2}$	3.9
-96	4591.244	TiII	(50)	$a^2P_{3/2}$-$z^2D_{3/2}$	3.9
-92	5420.257	TiII	(69)	$b^2D_{5/2}$-$z^2F_{5/2}$	3.9
-102	3318.978	TiII	(7)	$b^4F_{5/2}$-$z^4F_{7/2}$	3.9

Table 3. continued.

Table 3. continued.

Velocity (km/s)	λ_{lab} (Å)	Ion	Mult.	Transition	E_{exc} (eV)
-101	3330.411	TiII	(7)	$b^4F_{7/2}$-$z^4F_{7/2}$	3.9
-101	3309.757	TiII	(7)	$b^4F_{7/2}$-$z^4F_{9/2}$	3.9
-80	3344.726	TiII	(7)	$b^4F_{9/2}$-$z^4F_{7/2}$	3.9
-103	3323.897	TiII	(7)	$b^4F_{9/2}$-$z^4F_{9/2}$	3.9
-115	5227.998	TiII	(70)	$b^2D_{3/2}$-$z^2D_{3/2}$	3.9
-76	3162.136	TiII	(10)	$b^4F_{3/2}$-$z^4D_{1/2}$	4.0
-98	3155.118	TiII	(10)	$b^4F_{3/2}$-$z^4D_{3/2}$	4.0
-128	3162.689	TiII	(10)	$b^4F_{5/2}$-$z^4D_{3/2}$	4.0
-103	3686.253	TiII	(14)	$a^2F_{7/2}$-$z^2D_{5/2}$	4.0
-105	4295.307	TiII	(20)	$a^2D_{5/2}$-$z^2D_{5/2}$	4.0
-83	4342.585	TiII	(32)	$a^2G_{7/2}$-$z^2D_{5/2}$	4.0
-104	4418.960	TiII	(40)	$a^4P_{3/2}$-$z^2D_{5/2}$	4.0
-102	4303.124	TiII	(41)	$a^4P_{1/2}$-$z^4D_{3/2}$	4.0
-103	4309.075	TiII	(41)	$a^4P_{3/2}$-$z^4D_{3/2}$	4.0
-87	3067.245	TiII	(5)	$a^4F_{3/2}$-$z^4D_{3/2}$	4.0
-116	3076.123	TiII	(5)	$a^4F_{5/2}$-$z^4D_{3/2}$	4.0
-100	4535.240	TiII	(50)	$a^2P_{3/2}$-$z^2D_{5/2}$	4.0
-105	5155.506	TiII	(70)	$b^2D_{3/2}$-$z^2D_{5/2}$	4.0
-101	5190.125	TiII	(70)	$b^2D_{5/2}$-$z^2D_{5/2}$	4.0
-115	3153.172	TiII	(10)	$b^4F_{5/2}$-$z^4D_{5/2}$	4.1
-121	3163.488	TiII	(10)	$b^4F_{7/2}$-$z^4D_{5/2}$	4.1
-109	3169.449	TiII	(10)	$b^4F_{9/2}$-$z^4D_{7/2}$	4.1
-99	3597.078	TiII	(15)	$a^2F_{7/2}$-$z^4D_{5/2}$	4.1
-95	4174.713	TiII	(21)	$a^2D_{5/2}$-$z^4D_{5/2}$	4.1
-105	4162.708	TiII	(21)	$a^2D_{5/2}$-$z^4D_{7/2}$	4.1
-107	4291.426	TiII	(41)	$a^4P_{3/2}$-$z^4D_{5/2}$	4.1
-100	4314.076	TiII	(41)	$a^4P_{5/2}$-$z^4D_{5/2}$	4.1
-105	4301.259	TiII	(41)	$a^4P_{5/2}$-$z^4D_{7/2}$	4.1
-74	3067.119	TiII	(5)	$a^4F_{5/2}$-$z^4D_{5/2}$	4.1
-134	3079.551	TiII	(5)	$a^4F_{7/2}$-$z^4D_{5/2}$	4.1
-122	3073.015	TiII	(5)	$a^4F_{7/2}$-$z^4D_{7/2}$	4.1
-134	3088.934	TiII	(5)	$a^4F_{9/2}$-$z^4D_{7/2}$	4.1
-83	4401.008	TiII	(51)	$a^2P_{3/2}$-$z^4D_{5/2}$	4.1
-124	3342.841	TiII	(16)	$a^2F_{5/2}$-$z^2G_{7/2}$	4.3
-89	3373.181	TiII	(16)	$a^2F_{7/2}$-$z^2G_{7/2}$	4.3
-107	3350.000	TiII	(16)	$a^2F_{7/2}$-$z^2G_{9/2}$	4.3
-100	3914.576	TiII	(34)	$a^2G_{7/2}$-$z^2G_{7/2}$	4.3
-103	3901.656	TiII	(34)	$a^2G_{9/2}$-$z^2G_{9/2}$	4.3
-99	5130.581	TiII	(86)	$b^2G_{9/2}$-$z^2G_{9/2}$	4.3
-118	3566.986	TiII	(40)	$a^4P_{3/2}$-$z^2S_{1/2}$	4.6
-95	3625.858	TiII	(52)	$a^2P_{1/2}$-$z^2S_{1/2}$	4.6
-100	3642.369	TiII	(52)	$a^2P_{3/2}$-$z^2S_{1/2}$	4.6
-114	4781.321	TiII	(92)	$b^2P_{1/2}$-$z^2S_{1/2}$	4.6
-101	4806.428	TiII	(92)	$b^2P_{3/2}$-$z^2S_{1/2}$	4.6
-97	3237.052	TiII	(23)	$a^2D_{3/2}$-$y^2D_{3/2}$	4.9
-144	3240.598	TiII	(23)	$a^2D_{5/2}$-$y^2D_{3/2}$	4.9
-100	3253.879	TiII	(23)	$a^2D_{5/2}$-$y^2D_{5/2}$	4.9
-98	3229.534	TiII	(24)	$a^2D_{3/2}$-$z^2P_{1/2}$	4.9
-157	3279.868	TiII	(24)	$a^2D_{5/2}$-$z^2P_{3/2}$	4.9
-82	3403.400	TiII	(54)	$a^2P_{1/2}$-$z^2P_{3/2}$	4.9
-124	3384.541	TiII	(63)	$b^4P_{3/2}$-$y^2D_{5/2}$	4.9
-98	3707.271	TiII	(72)	$b^2D_{3/2}$-$y^2D_{3/2}$	4.9
-95	3742.699	TiII	(72)	$b^2D_{5/2}$-$y^2D_{5/2}$	4.9

Table 3. continued.

Velocity (km/s)	λ_{lab} (Å)	Ion	Mult.	Transition	E_{exc} (eV)
-79	3758.756	TiII	(73)	$b^2D_{3/2}$-$z^2P_{3/2}$	4.9
-88	3777.124	TiII	(73)	$b^2D_{5/2}$-$z^2P_{3/2}$	4.9
-80	4331.463	TiII	(93)	$b^2P_{1/2}$-$y^2D_{3/2}$	4.9
-100	5212.987	TiII	(103)	$b^2F_{7/2}$-$y^2F_{7/2}$	5.0
-105	3203.463	TiII	(26)	$a^2D_{3/2}$-$y^2F_{5/2}$	5.0
-114	3191.802	TiII	(26)	$a^2D_{5/2}$-$y^2F_{7/2}$	5.0
-107	3217.833	TiII	(36)	$a^2G_{7/2}$-$y^2F_{7/2}$	5.0
-175	3230.364	TiII	(36)	$a^2G_{9/2}$-$y^2F_{7/2}$	5.0
-129	3277.716	TiII	(45)	$a^4P_{5/2}$-$z^4S_{3/2}$	5.0
-102	3316.268	TiII	(65)	$b^4P_{1/2}$-$z^4S_{3/2}$	5.0
-99	3322.655	TiII	(65)	$b^4P_{3/2}$-$z^4S_{3/2}$	5.0
-105	3333.069	TiII	(65)	$b^4P_{5/2}$-$z^4S_{3/2}$	5.0
-111	3283.271	TiII	(66)	$b^4P_{1/2}$-$y^4D_{1/2}$	5.0
-137	3273.016	TiII	(66)	$b^4P_{1/2}$-$y^4D_{3/2}$	5.0
-165	3289.531	TiII	(66)	$b^4P_{3/2}$-$y^4D_{1/2}$	5.0
-99	3279.237	TiII	(66)	$b^4P_{3/2}$-$y^4D_{3/2}$	5.0
-107	3262.557	TiII	(66)	$b^4P_{3/2}$-$y^4D_{5/2}$	5.0
-99	3272.598	TiII	(66)	$b^4P_{5/2}$-$y^4D_{5/2}$	5.0
-100	3663.281	TiII	(75)	$b^2D_{3/2}$-$y^2F_{5/2}$	5.0
-92	3660.804	TiII	(75)	$b^2D_{5/2}$-$y^2F_{7/2}$	5.0
-98	4054.979	TiII	(87)	$b^2G_{7/2}$-$y^2F_{5/2}$	5.0
-100	4029.481	TiII	(87)	$b^2G_{9/2}$-$y^2F_{7/2}$	5.0
-97	2833.015	TiII	(uv7)	$a^2F_{5/2}$-$y^2F_{5/2}$	5.0
-104	3156.562	TiII	(37)	$a^2G_{9/2}$-$y^4D_{7/2}$	5.1
-104	3249.542	TiII	(66)	$b^4P_{5/2}$-$y^4D_{7/2}$	5.1
-12	3057.646	TiII	(47)	$a^4P_{1/2}$-$z^4P_{3/2}$	5.2
-103	3067.404	TiII	(47)	$a^4P_{3/2}$-$z^4P_{1/2}$	5.2
-29	3047.583	TiII	(47)	$a^4P_{3/2}$-$z^4P_{5/2}$	5.2
-38	3072.153	TiII	(47)	$a^4P_{5/2}$-$z^4P_{3/2}$	5.2
-144	3058.990	TiII	(47)	$a^4P_{5/2}$-$z^4P_{5/2}$	5.2
-89	3105.996	TiII	(67)	$b^4P_{1/2}$-$z^4P_{3/2}$	5.2
-105	3111.597	TiII	(67)	$b^4P_{3/2}$-$z^4P_{3/2}$	5.2
-98	3098.095	TiII	(67)	$b^4P_{3/2}$-$z^4P_{5/2}$	5.2
-62	3120.730	TiII	(67)	$b^4P_{5/2}$-$z^4P_{3/2}$	5.2
-90	3107.147	TiII	(67)	$b^4P_{5/2}$-$z^4P_{5/2}$	5.2
-102	4368.886	TiII	(104)	$b^2F_{7/2}$-$y^2G_{9/2}$	5.4
-102	3225.172	TiII	(84)	$a^2H_{11/2}$-$y^2G_{9/2}$	5.4
-95	4550.892	TiII	(84)	$a^2H_{11/2}$-$y^2G_{9/2}$	5.4
-94	3219.193	TiII	(84)	$a^2H_{9/2}$-$y^2G_{7/2}$	5.4
-102	4573.249	TiII	(84)	$a^2H_{9/2}$-$y^2G_{7/2}$	5.4
-98	3511.849	TiII	(88)	$b^2G_{7/2}$-$y^2G_{7/2}$	5.4
-109	3505.899	TiII	(88)	$b^2G_{9/2}$-$y^2G_{9/2}$	5.4
-85	2878.282	TiII	(uv14)	$a^2G_{7/2}$-$y^2G_{7/2}$	5.4
-96	2884.960	TiII	(uv14)	$a^2G_{9/2}$-$y^2G_{9/2}$	5.4
-101	4173.086	TiII	(105)	$b^2F_{5/2}$-$x^2D_{3/2}$	5.6
-99	4164.822	TiII	(105)	$b^2F_{7/2}$-$x^2D_{5/2}$	5.6
-100	3521.271	TiII	(98)	$b^2P_{1/2}$-$x^2D_{3/2}$	5.6
-98	3536.420	TiII	(98)	$b^2P_{3/2}$-$x^2D_{5/2}$	5.6
-78	3453.467	TiII	(99)	$b^2P_{1/2}$-$y^2P_{1/2}$	5.6
-94	3457.378	TiII	(99)	$b^2P_{3/2}$-$y^2P_{3/2}$	5.6
-114	2714.564	TiII	(uv13)	$a^2D_{3/2}$-$y^2P_{3/2}$	5.6
-104	2817.191	TiII	(uv17)	$a^2P_{3/2}$-$y^2P_{1/2}$	5.6
-96	2811.134	TiII	(uv17)	$a^2P_{3/2}$-$y^2P_{3/2}$	5.6

Table 3. continued.

Velocity (km/s)	λ_{lab} (Å)	Ion	Mult.	Transition	E_{exc} (eV)
-116	3018.063	TiII	(85)	$a^2H_{11/2}$-$z^2H_{11/2}$	5.7
-100	3009.188	TiII	(85)	$a^2H_{9/2}$-$z^2H_{11/2}$	5.7
-94	3030.611	TiII	(85)	$a^2H_{9/2}$-$z^2H_{9/2}$	5.7
-81	3288.608	TiII	(89)	$b^2G_{7/2}$-$z^2H_{9/2}$	5.7
-105	3262.525	TiII	(89)	$b^2G_{9/2}$-$z^2H_{11/2}$	5.7
-101	3090.306	TiII	(90)	$b^2G_{7/2}$-$x^2F_{5/2}$	5.9
-94	3104.712	TiII	(90)	$b^2G_{9/2}$-$x^2F_{7/2}$	5.9
-90	10128.770	[TiII]	(5F)	$a^4F_{3/2}$-$b^4P_{1/2}$	1.2
-103	10069.850	[TiII]	(5F)	$a^4F_{3/2}$-$b^4P_{3/2}$	1.2
-100	10069.740	[TiII]	(5F)	$a^4F_{5/2}$-$b^4P_{5/2}$	1.2
-95	8531.906	[TiII]	(15F)	$b^4F_{3/2}$-$b^2D_{3/2}$	1.6
-103	8587.494	[TiII]	(15F)	$b^4F_{5/2}$-$b^2D_{3/2}$	1.6
-116	8664.452	[TiII]	(15F)	$b^4F_{7/2}$-$b^2D_{3/2}$	1.6
-104	8568.400	[TiII]	(15F)	$b^4F_{7/2}$-$b^2D_{5/2}$	1.6
-94	8663.807	[TiII]	(15F)	$b^4F_{9/2}$-$b^2D_{5/2}$	1.6
-119	7918.452	[TiII]	(6F)	$a^4F_{3/2}$-$b^2D_{3/2}$	1.6
-56	7977.897	[TiII]	(6F)	$a^4F_{5/2}$-$b^2D_{3/2}$	1.6
-110	7979.330	[TiII]	(6F)	$a^4F_{7/2}$-$b^2D_{5/2}$	1.6
-107	9408.356	[TiII]	(21F)	$a^2F_{5/2}$-$b^2G_{9/2}$	1.9
-90	9645.089	[TiII]	(21F)	$a^2F_{7/2}$-$b^2G_{7/2}$	1.9
-92	9652.716	[TiII]	(21F)	$a^2F_{7/2}$-$b^2G_{9/2}$	1.9
-88	6648.980	[TiII]	(8F)	$a^4F_{7/2}$-$b^2G_{7/2}$	1.9
-105	6652.610	[TiII]	(8F)	$a^4F_{7/2}$-$b^2G_{9/2}$	1.9
-97	6727.670	[TiII]	(8F)	$a^4F_{9/2}$-$b^2G_{9/2}$	1.9
-98	8412.354	[TiII]	(–)	$a^2F_{5/2}$-$b^2P_{1/2}$	2.0
-100	8335.590	[TiII]	(–)	$a^2F_{5/2}$-$b^2P_{3/2}$	2.1
-99	8526.997	[TiII]	(–)	$a^2F_{5/2}$-$b^2P_{3/2}$	2.1
-95	6126.311	[TiII]	(22F)	$a^2F_{5/2}$-$b^2F_{5/2}$	2.6
-83	6148.896	[TiII]	(22F)	$a^2F_{5/2}$-$b^2F_{7/2}$	2.6
-91	6228.990	[TiII]	(22F)	$a^2F_{7/2}$-$b^2F_{5/2}$	2.6
-95	6252.341	[TiII]	(22F)	$a^2F_{7/2}$-$b^2F_{7/2}$	2.6
-96	4918.247	[TiII]	(23F)	$a^2F_{5/2}$-$c^2D_{3/2}$	3.1
-106	4984.205	[TiII]	(23F)	$a^2F_{7/2}$-$c^2D_{3/2}$	3.1
-101	4927.288	[TiII]	(23F)	$a^2F_{7/2}$-$c^2D_{5/2}$	3.1
-91	6153.623	[TiII]	(26F)	$a^2D_{3/2}$-$c^2D_{3/2}$	3.1
-87	6079.567	[TiII]	(26F)	$a^2D_{5/2}$-$c^2D_{5/2}$	3.1
-119	3126.182	VII	(1)	a^5F_1-z^5G_2	4.3
-101	3134.235	VII	(1)	a^5F_2-z^5G_2	4.3
-117	3119.277	VII	(1)	a^5F_2-z^5G_3	4.3
-96	3146.237	VII	(1)	a^5F_3-z^5G_2	4.3
-93	3131.164	VII	(1)	a^5F_3-z^5G_3	4.3
-105	3111.597	VII	(1)	a^5F_3-z^5G_4	4.3
-209	3127.117	VII	(1)	a^5F_4-z^5G_4	4.3
-98	3146.262	VII	(1)	a^5F_5-z^5G_4	4.3
-107	3103.189	VII	(1)	a^5F_4-z^5G_5	4.4
-187	3122.041	VII	(1)	a^5F_5-z^5G_5	4.4
-109	3094.003	VII	(1)	a^5F_5-z^5G_6	4.4
-98	2935.249	VII	(2)	a^5F_1-z^5F_2	4.5
-96	2942.347	VII	(2)	a^5F_2-z^5F_2	4.5
-84	2952.922	VII	(2)	a^5F_3-z^5F_2	4.5
-95	3593.050	VII	(4)	a^3F_3-z^5F_2	4.5
-85	3590.773	VII	(5)	a^3F_2-z^3D_1	4.5
-91	2958.374	VII	(uv11)	a^5F_2-z^3D_1	4.5

Table 3. continued.

Velocity (km/s)	λ_{lab} (Å)	Ion	Mult.	Transition	E_{exc} (eV)
-102	3917.519	VII	(10)	a^3P_1-z^3D_2	4.6
-94	3953.083	VII	(10)	a^3P_2-z^3D_3	4.6
-95	2918.207	VII	(2)	a^5F_2-z^5F_1	4.6
-104	2921.226	VII	(2)	a^5F_2-z^5F_3	4.6
-107	2931.649	VII	(2)	a^5F_3-z^5F_3	4.6
-94	2945.422	VII	(2)	a^5F_4-z^5F_3	4.6
-95	2924.862	VII	(2)	a^5F_5-z^5F_5	4.6
-100	3531.769	VII	(4)	a^3F_2-z^5F_1	4.6
-92	3594.355	VII	(4)	a^3F_4-z^5F_3	4.6
-95	3546.206	VII	(5)	a^3F_3-z^3D_2	4.6
-106	3525.719	VII	(5)	a^3F_3-z^3D_3	4.6
-97	3557.811	VII	(5)	a^3F_4-z^3D_3	4.6
-108	3897.259	VII	(9)	a^3P_0-z^5F_1	4.6
-95	3998.250	VII	(9)	a^3P_2-z^5F_3	4.6
-92	2716.463	VII	(uv1)	a^5D_2-z^5F_3	4.6
-102	2716.557	VII	(uv1)	a^5D_4-z^5F_4	4.6
-103	2701.736	VII	(uv1)	a^5D_4-z^5F_5	4.6
-86	2908.310	VII	(uv10)	a^5F_4-z^5F_5	4.6
-97	2903.913	VII	(uv11)	a^5F_1-z^3D_2	4.6
-90	2897.040	VII	(uv11)	a^5F_2-z^3D_3	4.6
-102	2921.209	VII	(uv11)	a^5F_3-z^3D_2	4.6
-99	2907.290	VII	(uv11)	a^5F_3-z^3D_3	4.6
-95	2890.463	VII	(uv12)	a^5F_1-z^5D_0	4.6
-108	2892.483	VII	(uv12)	a^5F_2-z^5D_1	4.6
-88	2883.339	VII	(uv12)	a^5F_2-z^5D_2	4.6
-96	2893.493	VII	(uv12)	a^5F_2-z^5D_2	4.6
-111	2702.989	VII	(uv2)	a^5D_3-z^3D_3	4.6
-112	2712.544	VII	(uv2)	a^5D_4-z^3D_3	4.6
-113	2683.887	VII	(uv3)	a^5D_0-z^5D_1	4.6
-82	2691.590	VII	(uv3)	a^5D_2-z^5D_1	4.6
-88	2683.671	VII	(uv3)	a^5D_2-z^5D_2	4.6
-104	2688.760	VII	(uv3)	a^5D_4-z^5D_4	4.6
-102	3904.374	VII	(11)	a^3P_2-z^5D_3	4.7
-100	3518.307	VII	(6)	a^3F_4-z^5D_3	4.7
-97	2880.861	VII	(uv12)	a^5F_3-z^5D_3	4.7
-97	2894.159	VII	(uv12)	a^5F_4-z^5D_3	4.7
-74	2893.279	VII	(uv12)	a^5F_4-z^5D_4	4.7
-98	2909.660	VII	(uv12)	a^5F_5-z^5D_4	4.7
-94	2679.371	VII	(uv3)	a^5D_3-z^5D_4	4.7
-88	2689.519	VII	(uv3)	a^5D_4-z^5D_3	4.7
-102	3746.875	VII	(15)	a^3H_4-z^3G_3	4.9
-88	3733.824	VII	(15)	a^3H_5-z^3G_4	4.9
-96	3716.545	VII	(15)	a^3H_6-z^3G_5	4.9
-91	4036.767	VII	(32)	a^3G_3-z^3G_3	4.9
-97	4024.525	VII	(32)	a^3G_4-z^3G_4	4.9
-105	4006.838	VII	(32)	a^3G_5-z^3G_5	4.9
-108	3268.632	VII	(7)	a^3F_2-z^3G_3	4.9
-99	3299.684	VII	(7)	a^3F_4-z^3G_4	4.9
-69	3277.061	VII	(7)	a^3F_4-z^3G_5	4.9
-94	3772.046	VII	(21)	b^3F_2-z^3F_2	5.0
-77	3751.944	VII	(21)	b^3F_3-z^3F_3	5.0
-88	3188.624	VII	(8)	a^3F_2-z^3F_2	5.0
-95	3191.602	VII	(8)	a^3F_4-z^3F_4	5.0

Table 3. continued.

Velocity (km/s)	λ_{lab} (Å)	Ion	Mult.	Transition	E_{exc} (eV)
-91	2996.863	VII	(27)	a^5P_1-z^5P_2	5.8
-90	3015.694	VII	(27)	a^5P_2-z^5P_1	5.8
-90	3002.079	VII	(27)	a^5P_3-z^5P_3	5.8
-91	3013.985	VII	(28)	a^5P_1-y^5D_1	5.8
-81	3021.542	VII	(28)	a^5P_2-y^5D_1	5.8
-79	2969.241	VII	(28)	a^5P_3-y^5D_4	5.9
-90	3054.279	VII	(34)	a^3G_4-z^3H_5	5.9
-129	3034.702	VII	(34)	a^3G_5-z^3H_6	5.9
-87	3101.834	VII	(39)	b^3G_3-y^3G_3	6.0
-115	3094.056	VII	(39)	b^3G_5-y^3G_5	6.1
-90	3234.705	VII	(61)	a^3D_3-y^3F_4	6.1
-98	2766.497	VII	(uv46)	a^3H_6-y^3G_5	6.1
-100	3137.439	VII	(122)	b^3H_5-y^3H_5	6.5
-91	3034.318	VII	(123)	b^3H_6-z^3I_7	6.6
-111	2818.332	VII	(120)	a^3D_1-w^3D_1	6.7
-39	2932.480	VII	(–)	b^3D_2-x^3P_1	6.8
-110	2933.179	VII	(–)	b^3D_3-x^3P_2	6.8
-94	8881.373	[VII]	(2F)	a^5D_1-a^3P_0	1.4
-97	8765.679	[VII]	(2F)	a^5D_2-a^3P_1	1.4
-110	8473.399	[VII]	(2F)	a^5D_2-a^3P_2	1.5
-95	7499.749	[VII]	(3F)	a^5D_3-b^3F_3	1.7
-162	7462.648	[VII]	(3F)	a^5D_3-b^3F_4	1.7
-96	7535.937	[VII]	(3F)	a^5D_4-b^3F_4	1.7
-74	7355.792	[VII]	(4F)	a^5D_0-a^5P_2	1.7
-89	7334.077	[VII]	(4F)	a^5D_2-a^5P_3	1.7
-94	7517.180	[VII]	(4F)	a^5D_3-a^5P_1	1.7
-94	7544.026	[VII]	(4F)	a^5D_4-a^5P_2	1.7
-110	7461.350	[VII]	(4F)	a^5D_4-a^5P_3	1.7
-87	7346.030	[VII]	(12F)	a^5F_3-b^3G_4	2.0
-94	7479.321	[VII]	(12F)	a^5F_5-b^3G_5	2.0
-121	7549.997	[VII]	(–)	a^5P_2-a^1F_3	3.3
-86	2867.582	CrII	(uv5)	$a^6D_{3/2}$-$z^6F_{3/2}$	5.8
-92	2856.509	CrII	(uv5)	$a^6D_{3/2}$-$z^6F_{5/2}$	5.8
-86	2865.943	CrII	(uv5)	$a^6D_{5/2}$-$z^6F_{5/2}$	5.8
-102	2850.675	CrII	(uv5)	$a^6D_{5/2}$-$z^6F_{7/2}$	5.9
-102	2863.412	CrII	(uv5)	$a^6D_{7/2}$-$z^6F_{7/2}$	5.9
-88	2844.085	CrII	(uv5)	$a^6D_{7/2}$-$z^6F_{9/2}$	5.9
-91	2836.463	CrII	(uv5)	$a^6D_{9/2}$-$z^6F_{11/2}$	5.9
-101	2859.749	CrII	(uv5)	$a^6D_{9/2}$-$z^6F_{9/2}$	5.9
16	3422.183	CrII	(3)	$a^4D_{1/2}$-$z^4P_{1/2}$	6.0
-119	3423.714	CrII	(3)	$a^4D_{5/2}$-$z^4P_{3/2}$	6.1
94	3359.456	CrII	(4)	$a^4D_{5/2}$-$z^6D_{3/2}$	6.1
-212	3409.735	CrII	(4)	$a^4D_{7/2}$-$z^6D_{5/2}$	6.1
-118	2664.467	CrII	(uv8)	$a^6D_{1/2}$-$z^6D_{1/2}$	6.1
-118	2679.585	CrII	(uv8)	$a^6D_{3/2}$-$z^6D_{5/2}$	6.1
-113	2687.885	CrII	(uv8)	$a^6D_{5/2}$-$z^6D_{5/2}$	6.1
-99	2666.813	CrII	(uv8)	$a^6D_{5/2}$-$z^6D_{7/2}$	6.1
-83	2699.210	CrII	(uv8)	$a^6D_{7/2}$-$z^6D_{5/2}$	6.1
-110	2691.839	CrII	(uv8)	$a^6D_{9/2}$-$z^6D_{7/2}$	6.1
-125	3369.009	CrII	(3)	$a^4D_{7/2}$-$z^4P_{5/2}$	6.2
-112	2673.621	CrII	(uv7)	$a^6D_{7/2}$-$z^4P_{5/2}$	6.2
-89	2664.214	CrII	(uv8)	$a^6D_{7/2}$-$z^6D_{9/2}$	6.2
-99	2677.955	CrII	(uv8)	$a^6D_{9/2}$-$z^6D_{9/2}$	6.2

Table 3. continued.

Velocity (km/s)	λ_{lab} (Å)	Ion	Mult.	Transition	E_{exc} (eV)
-99	2677.957	CrII	(uv8)	$a^6D_{9/2}$-$z^6D_{9/2}$	6.2
-113	3121.264	CrII	(5)	$a^4D_{3/2}$-$z^4F_{5/2}$	6.4
-90	3125.879	CrII	(5)	$a^4D_{5/2}$-$z^4F_{7/2}$	6.4
-99	3132.961	CrII	(5)	$a^4D_{7/2}$-$z^4F_{9/2}$	6.4
-117	8359.939	[CrII]	(1F)	$a^6S_{5/2}$-$a^6D_{1/2}$	1.5
-129	8310.770	[CrII]	(1F)	$a^6S_{5/2}$-$a^6D_{3/2}$	1.5
-121	8231.930	[CrII]	(1F)	$a^6S_{5/2}$-$a^6D_{5/2}$	1.5
-127	8127.531	[CrII]	(1F)	$a^6S_{5/2}$-$a^6D_{7/2}$	1.5
-115	8002.279	[CrII]	(1F)	$a^6S_{5/2}$-$a^6D_{9/2}$	1.5
-101	4582.145	[CrII]	(3F)	$a^6S_{5/2}$-$a^4P_{1/2}$	2.7
-119	4582.422	[CrII]	(3F)	$a^6S_{5/2}$-$a^4P_{1/2}$	2.7
-97	4582.088	[CrII]	(3F)	$a^6S_{5/2}$-$a^4P_{3/2}$	2.7
-86	3994.340	[CrII]	(4F)	$a^6S_{5/2}$-$b^4D_{1/2}$	3.1
-99	3992.530	[CrII]	(4F)	$a^6S_{5/2}$-$b^4D_{5/2}$	3.1
-107	3994.620	[CrII]	(4F)	$a^6S_{5/2}$-$b^4D_{7/2}$	3.1
-47	3496.833	MnII	(3)	a^5D_0-z^5P_1	5.4
-116	3489.675	MnII	(3)	a^5D_1-z^5P_1	5.4
-117	3475.124	MnII	(3)	a^5D_2-z^5P_1	5.4
-118	3483.902	MnII	(3)	a^5D_2-z^5P_2	5.4
-115	3461.307	MnII	(3)	a^5D_3-z^5P_2	5.4
-110	3475.035	MnII	(3)	a^5D_3-z^5P_3	5.4
-130	3497.810	MnII	(3)	a^5D_3-z^5P_3	5.4
-116	3442.974	MnII	(3)	a^5D_4-z^5P_3	5.4
-185	2933.913	MnII	(uv5)	a^5S_2-z^5P_1	5.4
-119	2940.168	MnII	(uv5)	a^5S_2-z^5P_2	5.4
-115	2950.067	MnII	(uv5)	a^5S_2-z^5P_3	5.4
-126	6852.215	[MnII]	(2F)	a^7S_3-a^5D_3	1.8
-114	6980.380	[MnII]	(2F)	a^7S_3-a^5D_4	1.8
-105	7881.401	[MnII]	(7F)	a^5D_1-a^5G_2	3.4
-92	7807.566	[MnII]	(7F)	a^5D_2-a^5G_2	3.4
-111	7808.041	[MnII]	(7F)	a^5D_2-a^5G_3	3.4
-115	7811.048	[MnII]	(7F)	a^5D_2-a^5G_4	3.4
-117	7705.686	[MnII]	(7F)	a^5D_3-a^5G_5	3.4
-113	7549.797	[MnII]	(7F)	a^5D_4-a^5G_5	3.4
-119	7563.501	[MnII]	(7F)	a^5D_4-a^5G_6	3.4
-99	6658.570	[MnII]	(8F)	a^5D_1-a^5P_2	3.7
-106	6511.434	[MnII]	(8F)	a^5D_3-a^5P_1	3.7
-103	6537.786	[MnII]	(8F)	a^5D_3-a^5P_3	3.7
-105	6412.900	[MnII]	(8F)	a^5D_4-a^5P_2	3.7
-106	6425.224	[MnII]	(8F)	a^5D_4-a^5P_3	3.7
-104	5474.872	[MnII]	(9F)	a^5D_3-b^5D_2	4.1
-135	5475.440	[MnII]	(9F)	a^5D_3-b^5D_3	4.1
-105	5496.302	[MnII]	(9F)	a^5D_3-b^5D_4	4.1
-90	5395.713	[MnII]	(9F)	a^5D_4-b^5D_2	4.1
-121	5396.266	[MnII]	(9F)	a^5D_4-b^5D_3	4.1
-121	5416.528	[MnII]	(9F)	a^5D_4-b^5D_4	4.1
-101	5329.520	FeI	(15)	a^5F_4-z^5D_3	3.2
-78	3887.383	FeI	(4)	a^5D_3-z^5D_3	3.2
-106	3825.529	FeI	(4)	a^5D_4-z^5D_3	3.2
-98	3861.005	FeI	(4)	a^5D_4-z^5D_4	3.2
-95	5372.983	FeI	(15)	a^5F_3-z^5D_2	3.3
-98	3879.672	FeI	(4)	a^5D_2-z^5D_1	3.3
-91	3720.993	FeI	(5)	a^5D_4-z^5F_5	3.3

Table 3. continued.

Velocity (km/s)	λ_{lab} (Å)	Ion	Mult.	Transition	E_{exc} (eV)
-105	3749.327	FeI	(5)	a^5D_1-z^5F_2	3.4
-81	3746.626	FeI	(5)	a^5D_2-z^5F_3	3.4
-87	3684.104	FeI	(5)	a^5D_3-z^5F_2	3.4
-100	3738.194	FeI	(5)	a^5D_3-z^5F_4	3.4
-101	3680.961	FeI	(5)	a^5D_4-z^5F_4	3.4
-107	3441.592	FeI	(6)	a^5D_4-z^5P_3	3.6
-105	3466.853	FeI	(6)	a^5D_1-z^5P_1	3.7
-99	3821.509	FeI	(20)	a^5F_5-y^5D_4	4.1
-97	3059.975	FeI	(9)	a^5D_3-y^5D_4	4.1
-79	3021.519	FeI	(9)	a^5D_4-y^5D_4	4.1
-102	2967.764	FeI	(10)	a^5D_4-y^5F_5	4.2
-96	3851.061	FeI	(20)	a^5F_1-y^5D_0	4.2
-94	3866.619	FeI	(20)	a^5F_1-y^5D_1	4.2
-79	3841.526	FeI	(20)	a^5F_2-y^5D_1	4.2
-94	3873.599	FeI	(20)	a^5F_2-y^5D_2	4.2
-95	3835.310	FeI	(20)	a^5F_3-y^5D_2	4.2
-95	3826.966	FeI	(20)	a^5F_4-y^5D_3	4.2
-89	3750.551	FeI	(21)	a^5F_4-y^5F_4	4.2
-96	3735.926	FeI	(21)	a^5F_5-y^5F_5	4.2
-99	3026.724	FeI	(9)	a^5D_0-y^5D_1	4.2
-83	3009.017	FeI	(9)	a^5D_1-y^5D_0	4.2
-102	3038.273	FeI	(9)	a^5D_1-y^5D_2	4.2
-118	3048.491	FeI	(9)	a^5D_2-y^5D_3	4.2
-89	2995.300	FeI	(9)	a^5D_3-y^5D_2	4.2
-122	3021.953	FeI	(9)	a^5D_3-y^5D_3	4.2
-93	3768.262	FeI	(21)	a^5F_1-y^5F_1	4.3
-84	3788.956	FeI	(21)	a^5F_1-y^5F_2	4.3
-90	3744.426	FeI	(21)	a^5F_2-y^5F_1	4.3
-95	3764.858	FeI	(21)	a^5F_2-y^5F_2	4.3
-100	3796.080	FeI	(21)	a^5F_2-y^5F_3	4.3
-106	3728.679	FeI	(21)	a^5F_3-y^5F_2	4.3
-122	3759.301	FeI	(21)	a^5F_3-y^5F_3	4.3
-50	3710.301	FeI	(21)	a^5F_4-y^5F_3	4.3
-93	3648.881	FeI	(23)	a^5F_4-z^5G_5	4.3
-108	3582.217	FeI	(23)	a^5F_5-z^5G_6	4.3
-99	4384.776	FeI	(41)	a^3F_4-z^5G_5	4.3
-94	3609.888	FeI	(23)	a^5F_1-z^5G_2	4.4
-72	3588.008	FeI	(23)	a^5F_2-z^5G_2	4.4
-90	3619.800	FeI	(23)	a^5F_2-z^5G_3	4.4
-114	3586.342	FeI	(23)	a^5F_3-z^5G_3	4.4
-147	3632.498	FeI	(23)	a^5F_3-z^5G_4	4.4
-69	3566.397	FeI	(24)	a^5F_3-z^3G_4	4.4
-95	3571.116	FeI	(24)	a^5F_4-z^3G_5	4.4
-82	4416.362	FeI	(41)	a^3F_2-z^5G_3	4.4
-91	4405.987	FeI	(41)	a^3F_3-z^5G_4	4.4
-106	4295.332	FeI	(41)	a^3F_4-z^5G_4	4.4
-105	4309.114	FeI	(42)	a^3F_3-z^3G_4	4.4
-99	4203.212	FeI	(42)	a^3F_4-z^3G_4	4.4
-99	4272.961	FeI	(42)	a^3F_4-z^3G_5	4.4
-95	4145.038	FeI	(43)	a^3F_3-y^3F_4	4.5
-97	4046.956	FeI	(43)	a^3F_4-y^3F_4	4.5
-101	4064.742	FeI	(43)	a^3F_3-y^3F_3	4.6
-95	2721.709	FeI	(uv5)	a^5D_3-y^5P_2	4.6

Table 3. continued.

Velocity (km/s)	λ_{lab} (Å)	Ion	Mult.	Transition	E_{exc} (eV)
-87	2719.833	FeI	(uv5)	a^5D_4-y^5P_3	4.6
-110	4072.887	FeI	(43)	a^3F_2-y^3F_2	4.7
-70	4006.373	FeI	(43)	a^3F_3-y^3F_2	4.7
-99	3816.923	FeI	(45)	a^3F_4-y^3D_3	4.7
-94	3828.909	FeI	(45)	a^3F_3-y^3D_2	4.8
-80	3058.335	FeI	(28)	a^5F_5-x^5D_4	4.9
-61	3101.565	FeI	(28)	a^5F_3-x^5D_3	5.0
-86	3042.623	FeI	(30)	a^5F_3-x^5F_4	5.0
-90	3010.446	FeI	(30)	a^5F_4-x^5F_4	5.0
-90	3000.387	FeI	(30)	a^5F_5-x^5F_5	5.0
-93	4483.510	FeI	(68)	a^5P_1-x^5D_2	5.0
-101	2541.735	FeI	(uv7)	a^5D_1-x^5D_2	5.0
-105	2511.591	FeI	(uv7)	a^5D_3-x^5D_2	5.0
-176	3043.549	FeI	(30)	a^5F_2-x^5F_3	5.1
-78	3019.862	FeI	(30)	a^5F_3-x^5F_3	5.1
-95	2490.501	FeI	(uv9)	a^5D_0-x^5F_1	5.1
-103	2491.907	FeI	(uv9)	a^5D_1-x^5F_2	5.1
-95	2491.395	FeI	(uv9)	a^5D_2-x^5F_3	5.1
-77	2814.116	FeI	(uv44)	a^5F_4-y^5G_5	5.3
-95	2734.390	FeI	(–)	a^5F_5-w^5D_4	5.4
-132	3775.896	FeI	(73)	a^5P_1-w^5D_1	5.5
-103	2712.459	FeI	(uv47)	a^5F_4-w^5F_5	5.5
-112	2731.790	FeI	(uv48)	a^5F_1-v^5D_1	5.5
-106	2591.646	FeI	(–)	a^5F_3-w^5P_2	5.7
-98	3864.836	FeI	(280)	a^3G_5-w^5G_4	5.9
-91	2493.573	FeI	(uv59)	a^5F_3-w^5G_2	5.9
-103	2493.383	FeI	(uv63)	a^5F_3-x^3G_3	5.9
-109	3234.901	FeI	(158)	z^7D_4-e^7P_4	6.3
-102	4150.535	FeI	(694)	z^5F_5-e^7G_6	6.3
-95	2576.820	FeI	(–)	a^3G_4-sp^3F_3	7.5
-72	3296.766	FeII	(1)	$a^4D_{3/2}$-$z^6D_{3/2}$	4.8
-83	3256.826	FeII	(1)	$a^4D_{7/2}$-$z^6D_{7/2}$	4.8
	2607-2632	FeII	(uv1)	a^6D-z^6D	5.0
-97	2971.382	FeII	(2)	$a^4D_{3/2}$-$z^6F_{5/2}$	5.2
-69	2980.224	FeII	(2)	$a^4D_{1/2}$-$z^6F_{3/2}$	5.3
-120	2750.134	FeII	(uv62)	$a^4D_{5/2}$-$z^4F_{7/2}$	5.5
-110	2756.552	FeII	(uv62)	$a^4D_{7/2}$-$z^4F_{9/2}$	5.5
-112	2740.359	FeII	(uv63)	$a^4D_{7/2}$-$z^4D_{7/2}$	5.5
-97	2744.008	FeII	(uv62)	$a^4D_{1/2}$-$z^4F_{3/2}$	5.6
-121	2747.296	FeII	(uv62)	$a^4D_{1/2}$-$z^4F_{5/2}$	5.6
-138	2750.299	FeII	(uv63)	$a^4D_{1/2}$-$z^4D_{1/2}$	5.6
-100	2762.629	FeII	(uv63)	$a^4D_{1/2}$-$z^4D_{3/2}$	5.6
-94	2737.776	FeII	(uv63)	$a^4D_{3/2}$-$z^4D_{1/2}$	5.6
-83	2728.347	FeII	(uv63)	$a^4D_{5/2}$-$z^4D_{3/2}$	5.6
-96	2715.218	FeII	(uv63)	$a^4D_{7/2}$-$z^4D_{5/2}$	5.6
-116	2567.682	FeII	(uv64)	$a^4D_{3/2}$-$z^4P_{1/2}$	5.9
-86	2578.695	FeII	(uv78)	$a^4P_{1/2}$-$z^4P_{1/2}$	5.9
-101	8349.870	[FeI]	(1F)	a^5D_4-a^3F_4	1.5
-106	5938.647	[FeI]	(2F)	a^5D_1-a^5P_2	2.2
-103	5806.063	[FeI]	(2F)	a^5D_2-a^5P_1	2.2
-104	5936.067	[FeI]	(2F)	a^5D_2-a^5P_3	2.2
-96	5710.551	[FeI]	(2F)	a^5D_3-a^5P_1	2.2
-95	5836.266	[FeI]	(2F)	a^5D_3-a^5P_3	2.2

Table 3. continued.

Velocity (km/s)	λ_{lab} (Å)	Ion	Mult.	Transition	E_{exc} (eV)
-101	5697.949	[FeI]	(2F)	a^5D_4-a^5P_3	2.2
-91	5641.119	[FeI]	(2F)	a^5D_4-a^5P_2	2.3
-105	4844.701	[FeI]	(4F)	a^5D_4-b^3F2_4	2.6
-116	7007.180	[FeI]	(15F)	a^5F_3-a^3G_4	2.7
-90	6838.838	[FeI]	(15F)	a^5F_4-a^3G_4	2.7
-104	6974.000	[FeI]	(15F)	a^5F_4-a^3G_5	2.7
-89	6762.484	[FeI]	(15F)	a^5F_5-a^3G_5	2.7
-39	4623.490	[FeI]	(21F)	a^5F_3-b^3D_2	3.6
-110	9338.400	[CoII]	(1F)	a^3F_4-b^3F_3	1.3
-95	9641.850	[CoII]	(1F)	a^3F_3-b^3F_2	1.4
-103	7276.590	[CoII]	(3F)	a^5F_4-a^5P_3	2.2
-126	6934.270	[CoII]	(3F)	a^5F_5-a^5P_3	2.2
-105	4153.755	[CoII]	(–)	a^3F_4-b^3P_2	3.0
-106	6925.736	[CoII]	(–)	b^3F_3-b^1G_4	3.1
-101	6521.281	[CoII]	(–)	b^3F_4-b^1G_4	3.1
-110	7102.208	[CoII]	(–)	a^3P_1-a^3D_3	3.4
-113	8303.270	[NiII]	(2F)	$a^2D_{3/2}$-$a^2F_{7/2}$	1.7
-112	7379.970	[NiII]	(2F)	$a^2D_{5/2}$-$a^2F_{7/2}$	1.7
-100	7413.690	[NiII]	(2F)	$a^2D_{3/2}$-$a^2F_{5/2}$	1.9
-109	6668.670	[NiII]	(2F)	$a^2D_{5/2}$-$a^2F_{5/2}$	1.9
-181	4327.453	[NiII]	(4F)	$a^2D_{5/2}$-$a^4P_{5/2}$	2.9
-74	7257.860	[NiII]	(8F)	$a^4F_{7/2}$-$a^4P_{5/2}$	2.9
-93	6793.350	[NiII]	(8F)	$a^4F_{5/2}$-$a^4P_{1/2}$	3.1
-66	6815.450	[NiII]	(8F)	$a^4F_{5/2}$-$a^4P_{3/2}$	3.1
-101	4216.706	SrII	(1)	$a^2S_{1/2}$-$a^2P_{1/2}$	2.9
-101	4078.860	SrII	(1)	$a^2S_{1/2}$-$a^2P_{3/2}$	3.0
-88	6870.070	[SrII]	(1F)	$a^2S_{1/2}$-$a^2D_{3/2}$	1.8
-89	6740.230	[SrII]	(1F)	$a^2S_{1/2}$-$a^2D_{5/2}$	1.8

Table 4. Unidentified lines

λ_{obs} (Å)	Int (nov01)[a]	Wavelength coincidence
2537.92	14	bl
2538.90	22	
2548.76	7	VII a^3P_1-y^3P_1
2580.24	37	
2592.96	33	bl abs
2815.20	3[b]	FeI a^3F_2-sp^5H_3
3050.49	8	VII a^3D_3-y^3P_2
3146.64	5	
3208.63	8	
3379.87	19	TiII $b^4P_{5/2}$-$y^2D_{3/2}$
3391.76	15	ZrII $a^4F_{9/2}$-$z^4G_{11/2}$
3414.65	7	VII b^3D_3-z^1D_2
3416.15	13	
3438.51	34	ZrII $a^4F_{7/2}$-$z^4G_{9/2}$, bl.
3600.62	5	YII a^3D_3-z^3D_3
3687.65	11	
3697.79	4	
3709.35	9	YII a^3D_3-z^3F_3, bl.
3774.24	9	TiII $a^2F_{5/2}$-$z^4F_{7/2}$
		YII a^3D_2-z^3F_3
		SrII 5d $^2D_{5/2}$-7f ^2F
3856.35	4	
3958.07	1	ZrII $a^2D_{3/2}$-$z^2F_{5/2}$
4305.24	6	SrII 5p $^2P_{3/2}$-6s $^2S_{1/2}$
4427.25	2	TiII $b^4P_{5/2}$-$z^4D_{3/2}$
4747.17	9	SrII 6s $^2S_{1/2}$-7p $^2P_{1/2}$
4763.86	4	TiII $a^2P_{3/2}$-$z^4F_{5/2}$
4802.32	7	
5253.20	1	FeI z^5D_1-e^5D_1
5303.74	3	[FeI] a^5D_2-a^3P_1
5470.63	7	
5559.85	4	
5599.35	1	
6160.44	2	
6219.08	2	FeI a^5P_2-y^5D_2
6998.68	2	
7426.27	7	
7430.71	4	
7664.71	13	YII a^3D-a^3P
7749.18	4	
7808.06	6	
8050.43	3	
8674.12	2	[VII] a^3F_4-b^3D_3
8698.34	2	[VII] a^5F_5-a^3G_5
8806.31	4	
9341.82	4	

[a] 10^{-15} erg cm^{-2} s^{-1} arcsec^{-2}

[b] The 2815 Å line is not covered in the Nov01 observations. The observed intensity is from the Mar00 data.