

Description and Analysis of the First Spectrum of Chromium, Cr I

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Wavelengths and estimated intensities are presented for about 4,400 lines of Cr I recorded photographically between 11610 Å in the infrared and 1880 Å in the ultraviolet. Zeeman patterns, measured in magnetic fields of 35000 and 85000 oersteds for approximately 10 percent of the lines, are presented also. Analysis of the spectrum with these observational data has yielded classifications for about 80 percent of the Cr I lines, as combinations among the terms that arise from the various configurations assumed by the valence electrons of the atom in its excited and unexcited states. Of these terms 53 have been found due to the even electron configurations $3d^5 ns$, $3d^4 ns^2$, $3d^6$, and $3d^5 nd$; and 115 due to the odd configurations $3d^5 np$ and $3d^4 4s np$. Among both even and odd terms several series of two or more members have been found converging to the ground state a^6S and to the metastable state a^6D of Cr II.

The 7S , 5S , and $^7P^o$ series, of three or more members, that converge to a^6S are in remarkable accord in fixing the separation of the ground states of the neutral and singly ionized Cr atoms as 54570 cm^{-1} . This corresponds to an ionization potential of 6.764 electron volts.

1. Introduction

The description and analysis of the first spectrum of chromium presented in this paper represent results accumulated at the National Bureau of Standards over a period of more than 35 years. The work was begun in the summer of 1917 when, in the Spectroscopy Laboratory of this Bureau, a program was initiated of making prolonged exposures to the red and infrared spectra of several elements in order to test the photosensitizing properties of various dyes, notably dicyanin and dicyanin A. Among the elements studied was chromium, for which K. W. Meissner [1],¹ using photographic procedures, had reported some infrared lines. The new observations, as reported by Kiess and Meggers [2], not only verified the results of Meissner and of Stütting [3] but also extended our knowledge of the emission spectrum of chromium out to 9734 Å and confirmed the radiometric measurements of Randall and Barker [4] in the region common to the two investigations.

The first series regularities in the chromium spectrum were pointed out by Richter [5], who showed that pairs of lines observed by him and by Miller [6] to have similar Zeeman patterns, are members of the two prominent triplets in the blue and violet. Kiess and Meggers [2] stated that the two intense triplets in the red and infrared, one with wide and the other with narrow separations, are mirror images of similar triplets in the blue and green. These first findings served to stimulate several investigators to search for additional regularities in the spectrum, and in 1922, announcements of new results were made independently and almost simultaneously from three laboratories. In his work describing the multiplet structure of the manganese spectra, Catalán [7] stated that similar structures had been discovered in the spectrum of chromium, and he gave some ex-

amples. These and other complex groups of chromium lines, together with their Zeeman patterns, were described at the same time by Frl. Gieseler [8], who sought to interpret the chromium regularities found by Paschen, but among which he could not detect series relationships. Such relationships were first published by C. C. and H. K. Kiess [9] in their note describing the first members of the principal, sharp, and diffuse series of wide and narrow triplets.

With the key to the structure of spectra in hand, various investigators soon worked out the classification of the outstanding lines of chromium. Following his preliminary announcement Catalán [10], in two brief notes, gave some additional multiplets and series from which he derived an ionization potential of 6.7 v for the neutral atom. These and other results, including a list of all known classified lines with term designations, he published in a more extended paper [11]. In the following year, Frl. Gieseler [12] published an analysis of the spectrum with her interpretations of it as derived from Zeeman patterns measured at Tübingen. In the meantime, similar investigations, made at the National Bureau of Standards for the purpose of testing the spectroscopic displacement and alternation laws of Kossel and Sommerfeld, led to the discovery and announcement by Meggers, Kiess, and Walters [13], of the first multiplets in the spectrum of singly ionized chromium. Contributing factors to the success of these investigations were temperature classifications by King [14]; Zeeman effects by Purvis [15], Miller [16], Hartman [17], Babcock [18], and Richter [19]; absorption observations by King [20], Gieseler and Grotrian [21], and Zumstein [22]; and under-water spark observations by Hulburt [23], and by Smith and Muskat [24].

The results that had been obtained up to 1925 for Cr I and Cr II showed that their prominent classified lines result from transitions among septet and quintet terms and sextet and quartet terms, respectively.

¹ Figures in brackets indicate literature references at the end of this paper.

However, the quantum theory of atomic spectra also required triplets and singlets for Cr I and doublets for Cr II. Continued work at the National Bureau of Standards brought some of these expected terms to light. They were presented, by the writer [25], in lists of all known terms, intended primarily for the use of astrophysicists interested in the spectra of the sun and stars. In 1931 Catalán and Sancho [26] published a revised list of more than 700 classified lines originating in transitions among all known levels of the septet, quintet, and triplet systems. In deriving a new value of 6.74 v for the ionization potential of neutral chromium, they made use of all terms having as a common limit the ground state a^6S of Cr II. When new types of plates sensitive to infrared rays became available, a new survey was made, at the National Bureau of Standards, of the chromium arc spectrum out to the limit accessible to photography. The result was an extended list of lines that brought to light new terms, especially of the triplet system. These were published in 1935 [27].

The difficulty of extracting new terms from the available wavelength data emphasized the need for a more homogeneous description of the spectra emitted by arcs and sparks between chromium electrodes. Accordingly, a new set of spectrograms of both Cr I and Cr II was secured at the NBS Spectroscopy Laboratory. From them were derived new wavelengths and intensity estimates, which, with similar data from observations made elsewhere, form the basis for the analysis of Cr I presented in this paper. The same observations served for the description and analysis of Cr II published recently [28].

2. Experimental Procedure

It is not necessary to repeat here the details of the experimental work done for this investigation. These are recorded in the two papers just cited, [27, 28]. Mention should be made, however, that

some spectrograms of the arc operating in an atmosphere of nitrogen were obtained. For this purpose a stream of commercial nitrogen was kept flowing, at pressures between 600 and 700 mm Hg, through the chamber of the enclosed arc in order to suppress the CrO bands that appear as outstanding features of the yellow, red, and near-infrared regions of the spectrum. These bands mask almost completely all but the strongest lines of the atomic spectrum in this region. With their disappearance from the spectrograms, many new lines were revealed that have greatly extended the analysis of Cr I. The effectiveness of the above procedure in eliminating the bands from the spectrum is illustrated by figure 1. In measuring the spectrograms settings were made also on the band-heads given in table 6 to determine their wavelengths accurately for the use of molecular spectroscopists and astrophysicists.

3. Results

3.1. Wavelengths and intensities

The new observational data presented in this paper are the wavelengths and estimated intensities in the first two columns of table 1, the Zeeman patterns in tables 2 and 3, and the band-heads in table 6. The wavelengths are mean values from measurements on 2 to 8 spectrograms made at the National Bureau of Standards, at the Mt. Wilson Observatory, and at Princeton University, as described in the previous paper. All lines measured on only one plate have been omitted from the table unless their reality has been established by term combinations. For most of the lines the wavelengths are given to only 2 decimal places; but for some lines, measured more than 4 times, the individual measurements were highly accordant, so that it seemed desirable to retain the third decimal place in the mean. All the wavelengths longer than 1988 Å are air values; those less than this wavelength are vacuum values derived from the Princeton spectrograms.

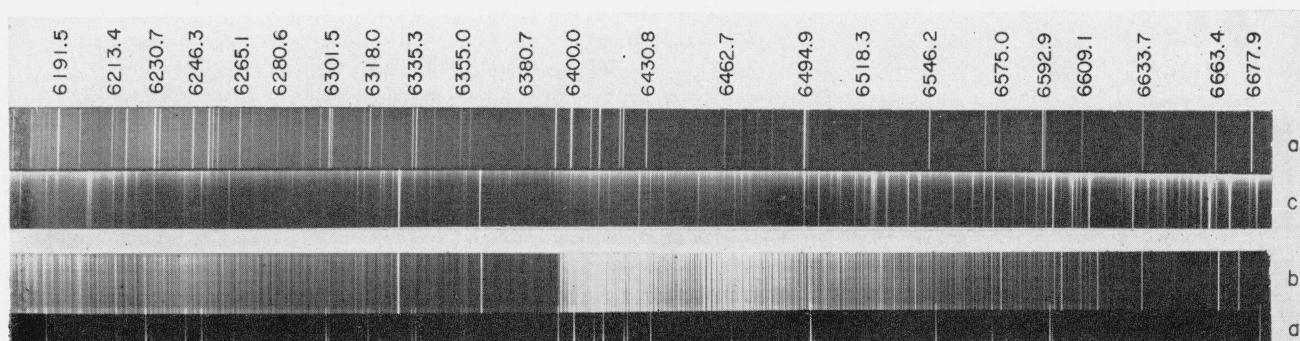


FIGURE 1. *Suppression of CrO bands.*
(a), Fe arc; (b), Cr arc in air; (c), Cr arc in nitrogen.

The strength and character of the lines are indicated by the numbers and letters in the second column of table 1. Absence of a letter means that the line appears sharp and symmetrical. Deviations from these characteristics, such as doubling, blending, and dissymmetries of shading, are indicated by the letter symbols adopted for this purpose by the International Astronomical Union [29]. The letter *Z* means that a Zeeman pattern, derived from NBS or MIT spectrograms, is recorded for the line in table 2.

The intensity estimates for the Cr I lines were made in the same manner as those for Cr II, and the statements made in the earlier paper are pertinent here. Available for comparison are the intensity estimates derived by A. S. King [30] from two series of spectrograms of the chromium arc-in-air. The earlier series, published in 1915, extends from 6978 to 3550 Å, whereas the series made nearly 10 years later covers the ultraviolet region from 3575 to 2362 Å. Except for diffuse lines marked "n" or "N" in his lists, all of King's intensity numbers are smaller than those given in table 1. The factors by which King's intensities are to be multiplied to equal those of table 1 are approximately as follows:

King's intensities	Factors for—		King's intensities	Factors for—	
	1915 series	1924 series		1915 series	1924 series
1	25	5	9	5.5	2.5
2	15	4	10	5	2.5
3	11	3.5	15	4.5	2.0
4	9	3	20	4.0	2.0
5	7.5	3	25	3.5	1.5
6	6.5	2.5	50	2.5	1.5
7	6	2.5	75	2.0	1.5
8	6	2.5			

Comparison of the estimated intensities with those determined photometrically is not satisfactory nor is it strictly legitimate. Both Frerichs [31] and Allen and Hesthal [32] have published photometric measurements of Cr I multiplets that show that the relative intensities of the lines are in close accord with those calculated theoretically for *LS*-coupling. In both investigations the measurements were made on lines emitted by an arc in an enclosure in which the air pressure was greatly reduced to minimize the effect of self-reversal. All the multiplets studied in these investigations contain lines that show self-reversal in the arc-in-air. More recently Hill and King [33] have published *gf*-values for 430 absorption lines of Cr I in multiplets that are of astrophysical importance. Their results also show satisfactory agreement with theoretical relative intensities. For the strongest lines of the spectrum, the estimated intensities are in only qualitative agreement with the photometric values. For the less intense lines, however, in which self-reversal is small or nonexistent,

the quantitative relation, first pointed out by Russell [34], is found to hold, namely, that the estimated intensities are proportional to the square roots of the theoretical value. This finding is an illustration of the working of Fechner's law of photometry with the eye.

3.2 Zeeman Effects

The Zeeman patterns recorded for Cr I lines in table 2 were derived from NBS and MIT spectrograms, as described in the previous paper. The scheme of segregating these data in a separate table was adopted when it became evident that magnetic patterns were measured for about 10 percent of the lines. To include them with the classified lines is desirable, but to do so in this case would increase unduly the bulk of the tabulated data. As in the paper on Cr II, a dagger (†) indicates that the pattern was measured only on NBS plates; the letters *A*, *B*, *C*, and *D* indicate the type of shading displayed by unresolved patterns. Thus: *A*= $\diagup\diagdown$; *B*= $\diagdown\diagup$; *C*= \wedge ; *D*= \sqcap .

The *g*-values derived from the Zeeman patterns for energy levels of Cr I are recorded in tables 4 and 5. Those given to two decimal places were derived from the NBS plates, whereas the three-place figures were derived from the MIT plates. For many of the lines, it was not possible to measure the magnetic patterns and derive the *g*'s of the combining levels. These lines originate in terms of the $3d^5 4s$ electron-configuration that have level separations smaller than the splitting due to the magnetic field. The Zeeman patterns of such lines are badly distorted, because of Paschen-Back interaction, and in many cases they are overlaid by similar patterns of adjacent lines so that the task of untangling them seems almost hopeless. Lines of Cr I with distorted patterns that offer a prospect of future interpretation are marked in table 2 with the symbol P-B.

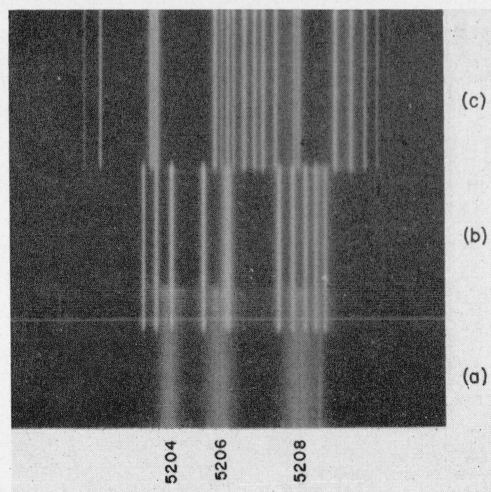


FIGURE 2. Zeeman pattern of $5S-2P^{\circ}$ multiplet of Cr I. (a), No field; (b), parallel components; (c), normal components.

About twenty-five years ago Sommerfeld [35] pointed out the intense, green triplet of Cr I as an outstanding example of Paschen-Back interaction. The appearance of the pattern as produced in a field of 85,000 oersteds is illustrated by figure 2. The no-field lines are due to the transition $a^5S - z^5P^o$, which is a term combination of the same type as that producing the O I triplet at 7771 to 7775 Å, namely, $3s^5S^o - 3p^5P$. A detailed analysis of the O I Zeeman patterns and the procedure for deriving the g -values of the terms have been reported by Kiess and Shortley [36]. A similar analysis, applied to the Cr I triplet, has yielded the g -values given in table 4 for the terms a^5S and z^5P^o . Measurements of this pattern, at moderate field strengths, have been reported by Fr. Gieseler [37]. The structure of the pattern and its analysis, as derived from measurements of the MIT spectrograms, are given in table 3.

3.3 Term Structure of Cr I

The spectrum Cr I, emitted by neutral chromium atoms, results from transitions among even terms of the configurations $3d^5 ns$, $3d^4 ns^2$, $3d^6$ and $3d^5 nd$ and odd terms of the configurations $3d^4 4s np$ and $3d^5 np$ as given in tables 4 and 5. The assignment of terms to their proper electron configurations is quite obvious for many of them, but for others it is a matter of conjecture. The prominent, low, even terms with small and partially inverted level separations show a close parallelism with corresponding terms of Cr II and are, accordingly, assigned to the $d^5 s$ configuration. On the other hand the low, even terms of the $d^4 s^2$ configuration have wide separations; and by their positions in the energy diagram reveal their relationship to the corresponding terms of the $d^4 s$ configuration of Cr II and the d^4 configuration of Cr III. The terms of the d^6 configuration should be similar in type to those of $d^4 s^2$ but with inverted levels. Only one term, c^5D , of this configuration has been found, the others lying too high to give observable combinations.

The terms of the odd configurations $3d^5 4p$ and $3d^4 4s 4p$ also exhibit characteristics that relate them to corresponding terms of Cr II and thus determine their configuration assignment.

3.4 Series and Ionization Potential

Among the Cr I terms are several that form Rydberg sequences of two or more members. The outstanding series are those derived by adding ns , np , and nd electrons to the ground term $3d^5(a^5S)$ of Cr II, as given in table 7. The lower members of these series were among the prominent features of the spectrum pointed out by the early investigators, particularly by Fr. Gieseler [38], who recognized three 7S series members and four 5S members. All these series are remarkably regular and can be accurately represented by the Ritz formula $\nu = L - R/\{m + \alpha + \beta/m^2\}^2$, in which L is the limit of the series, α and β are constants peculiar to the series, and $m = 1, 2, 3, \dots$ is the order number of the vari-

able term. The values of α and β appropriate for each series are listed at the bottom of each column of table 7. From each series values of the limits may be calculated. The limit from the $^7P^o$ series was found to be in close agreement with those from the 7S and 5S series and was included with them in deriving a mean value of $54570 \pm 2 \text{ cm}^{-1}$ for the separation $a^7S - a^6S$ between the ground states of the neutral and singly ionized chromium atoms. This corresponds to an ionization potential of 6.764 v. This value is essentially the same as that given by Miss Moore [39] in Atomic Energy Levels, which was calculated by Professor H. N. Russell from the 7S series alone with the method described by Shentstone [40]. With the term value 31071 thus found for z^7P^o as limit, a representation of the two members of the 7D series shows that their Rydberg denominators are very nearly integral, and, therefore, that this series is approximately similar to those of hydrogen.

Series of $^5P^o$, $^5D^o$, and $^5F^o$ terms, each with three members, have been found from their combinations with a^5D . These series arise from addition of np electrons to the a^6D state of Cr II, and may be satisfactorily represented with a Ritz formula. However, they give for the separation of a^5D from a^6D somewhat larger values than that calculable from the above separation of the ground states a^7S and a^6S . It is well known, from analyses of other spectra, that such series are erratic and are not satisfactory for the fixing of limits; therefore, they have not been included in the determination of the ionization potential.

3.5. Chromium Oxide Band-heads

Most of the earlier investigators of the chromium arc spectrum have described the prominent band-structure that appears in the yellow and orange regions; and some of them have reported approximate wavelengths for the band-heads. A few of the most intense of these bands have been identified by Miss Davis [41] among the other bands that occur in the absorption spectrum of the giant star β Pegasi. On the National Bureau of Standards spectrograms the bands make their first appearance faintly near 4850 Å in the blue, and can be traced to 11550 Å in the infrared. Most of them lack the distinctive feature that can be designated with certainty as a band-head.

The first attempt to arrange the strongest bands in a vibrational array is due to Meeke and Guillery [42]. A few years later their analysis was extended by Ferguson [43] on the basis of new observations made by him at the National Bureau of Standards with a prism spectrograph. Subsequently Ghosh [44] reported a further analysis based on identifications of fainter band-heads in the region shortward of 5500 Å.

Measurement of the National Bureau of Standards spectrograms included not only all the easily recognized band-heads but also some of the stronger band features that have somewhat the appearance of heads overlaid by rotational lines of preceding bands. The

prominent bands at 6051 and 6394 Å appear to be accompanied by at least three and possibly more subheads, as stated by Ghosh. However, an attempt to verify the fainter band-heads reported by him in the green and blue regions was not successful. Underlying the stronger bands on our plates, there appears a fainter structure of closely spaced lines that seem to emerge from heads masked by the stronger bands. One such head is that at 6119.98 Å. Wavelengths, estimated intensities, and wave numbers of the observed CrO band features are presented in table 6.

3.6. Interpretation of Some Infrared Cr I Lines

Among Randall and Barker's infrared Cr I lines that lie beyond the photographic limit reached in table 1 there are five that can be classified as combinations between terms in tables 4 and 5. They are listed in table 8, in which the calculated and observed wavelengths are listed in adjacent columns for comparison. In the last column of the table are entered the corresponding solar wavelengths as observed by Goldberg, Mohler, and McMath [45]. No satisfactory interpretation has been found for Randall and Barker's group of 11 Cr lines between 25459 and 26232 Å.

4. Discussion

The atomic number of Cr is 24, which means that the neutral atom has 24 extra-nuclear electrons. Eighteen of these are bound in closed shells, leaving six to serve as valence electrons, which can form different configurations, depending on the state of excitation of the atom. According to present theories, the spectrum, Cr I, results from transitions among even and odd terms of the singlet, triplet, quintet, and septet systems that are characteristic of the various electron configurations. The terms to be expected theoretically from these configurations are set forth in table 9, which is abridged from a more extended table on pages xii and xiii of the Introduction to Volume II of Atomic Energy Levels [39]. The terms actually found in this investigation are printed in table 9 in bold-face type. Of these there are 53 even terms, as listed in table 4, and 115 odd terms, as listed in table 5.

The total number of Cr I lines given in table 1 is approximately 4,425. More than 80 percent of them have been classified with the terms of tables 4 and 5. About 10 percent of the classified lines have two or more designations, indicating that they have an unresolved structure due to blending of two or more components, even when observed with powerful gratings.

The presence in Cr I of several series of three or more members is unique in complex spectra. The

series are very regular and can be represented accurately by a simple formula of the Ritz type, so that the value of the ground state can be fixed with an error not exceeding 1 part in 10,000. It is possible, therefore, to calculate for the neutral Cr atom an ionization potential of the same order of accuracy.

The occurrence of molecular bands in the spectra of arcs and of low-energy sparks in air is always annoying to the atomic spectroscopist. Nevertheless, their importance in the physical and chemical analysis of flames, and in the analysis of stellar spectra, is recognized. Inspection of the CrO bands on the high-dispersion spectrograms of the NBS reveals features that differ in several respects from the published descriptions derived from low-dispersion spectra. This suggests that the published vibrational analyses are only approximately correct, and that further investigation of them is required in sources more favorable to their excitation than the conventional arcs-in-air.

The wavelengths of numerous Cr I lines, beyond the reach of photographic registration in the infrared, may be calculated with the terms of tables 4 and 5. With modern radiometric detectors it should be possible to record not only these predicted lines, of which many have $3d^6\ ^5D$ as their low state, but also other lines that arise from states as yet unknown, notably the 3P and 3H states of the $3d^6$ configuration. Similarly, there are predictable lines in the extreme ultraviolet, shortward of 2000 Å, that should be observable with vacuum spectrographs. The chromium arc-in-air should be a satisfactory source for radiometric investigations because, if the electrodes are about 1 cm in thickness, the arc burns steadily for several minutes, and if the arc is in an enclosure with the air-pressure reduced to about $\frac{1}{2}$ atm, it will burn without flicker for 20 minutes or more.

The description and analysis of Cr I, presented in this paper would not have reached their present status without observational material and data from various individuals. A. S. King of the Mount Wilson Observatory loaned some of his high-dispersion spectrograms of chromium and also made available, in advance of publication, his furnace observations of the ultraviolet spectrum. Similarly, H. D. Babcock, of the same Observatory, supplied his unpublished Zeeman effect observations. A. G. Shenstone of Princeton University made spectrograms of the extreme ultraviolet region with his vacuum spectrograph; and finally, both G. R. Harrison and W. F. Meggers made sets of Zeeman effect observations with the magnet and spectrographs of the Massachusetts Institute of Technology. It is a pleasure to express to each of them appreciation for his contribution to this work.

TABLE 1. Wavelengths and term combinations of Cr I

d, Double; h, hazy; H, very hazy; l, shaded longward; s, shaded shortward; r, reversed; R, strongly reversed; w, wide; W, very wide; Z, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
11610.48	15	8610.55	$z^5P_3-c^5D_4$	9409.78	3	10624.33	$f^5S_2-v^3P_2$
11484.50	15	8705.01	$z^5P_3-c^5D_3$	9398.13	1	10637.50	$d^3F_3-x^5G_4$
11472.93	10	8713.79	$z^5P_3-c^5D_3$	9362.06	10	10678.48	$a^3P_1-z^3P_2$
11397.96	12	8771.10	$z^5P_1-c^5D_2$	9313.55	8	10734.10	$a^3P_0-z^3P_1$
11390.63	15	8776.74	$z^5P_3-c^5D_2$	9302.75	2w	10746.56	
11379.26	5	8785.52	$z^5P_3-c^5D_2$	9294.30	15	10756.33	$a^5G_5-z^5F_5$
11339.16	15	8816.58	$z^5P_1-c^5D_1$	9294.15	10	10756.51	$a^5G_4-z^5F_5$
11331.88	10	8822.25	$z^5P_3-c^5D_1$	9290.44	50	10760.80	$a^5G_6-z^5F_5$
11310.69	12	8838.78	$z^5P_1-c^5D_0$	9278.06	2	10775.16	
11157.03	25	8960.51	$y^7P_4-e^7S_3$	9263.98	20	10791.54	$a^3F_3-z^3F_2$
11044.64	5	9051.69	$b^5D_1-z^5D_0$	9220.55	1	10842.37	$c^3F_4-w^5F_5$
11015.63	30	9075.53	$y^7P_3-e^7S_3$	9208.29	30	10856.80	$a^3F_4-z^3F_3$
10957.19	12	9123.93	$b^5D_2-z^5D_1$	9148.45	7	10927.82	$a^3F_3-z^3F_3$
10929.90	10	9146.71	$b^5D_0-z^5D_1$	9142.59	8	10934.82	$y^3G_5-e^3G_5$
10905.83	25	9166.90	$y^7P_2-e^7S_3$	9141.18	7	10936.51	$y^3G_3-e^3G_3$
10902.90	2	9169.37		9140.53	8	10937.28	$y^3G_4-e^3G_4$
10821.62	12	9238.23	$b^5D_3-z^5D_3$	9128.12	2	10952.15	$z^3D_3-e^3F_4$
10816.91	8	9242.26	$b^5D_2-z^5D_3$	9124.01	1	10957.09	$a^3F_2-z^3F_2$
10801.37	12	9255.55	$b^5D_1-z^5D_2$	9113.08	2	10970.23	$c^5D_4-w^5D_3$
10672.17	18	9367.60	$b^5D_3-z^5D_3$	9098.95	1	10987.26	$z^3D_2-e^3F_3$
10667.53	15	9371.68	$b^5D_2-z^5D_3$	9097.39	1	10989.15	$z^3D_1-e^3F_2$
10647.66	12	9389.17	$b^5D_4-z^5D_3$	9068.28	2	11024.43	$c^5D_4-w^5D_4$
10631.42	2	9403.50	$b^1G_4-x^3G_4$	9065.11	2	11028.28	
10550.12	3	9475.97	$u^5F_5-e^5G_6$	9059.75	5	11034.81	$a^3F_4-z^3F_4$
10509.96	10	9512.18	$b^5D_1-z^5D_4$	9035.86	40	11063.98	$a^3G_3-z^3F_2$
10486.24	20	9533.70	$b^5D_4-z^5D_4$	9027.22	1	11074.57	$a^5F_3-x^5D_2$
10416.75	2	9597.30	$b^5D_2-z^3P_1$	9021.69	75	11081.36	$z^5P_1-e^5S_2$
10392.10	1	9620.08	$b^5D_0-z^3P_1$	9017.10	100	11087.00	$z^5P_2-e^5S_2$
10217.06	1	9784.87	$c^5D_3-z^5F_4$	9009.95	150	11095.80	$z^5P_3-e^5S_2$
10197.05	3	9804.07	$a^3P_2-z^3P_1$	8989.14	3	11121.49	$b^3H_6-y^3G_3$
10111.90	1	9886.63	$b^5D_3-z^3P_2$	8976.88	40	11136.67	$a^3G_4-z^3F_3$
10089.61	2	9908.48	$c^5D_4-x^5F_3$	8959.16	3	11158.70	
10083.17	5	9914.80	$a^3D_2-z^3D_1$	8957.96	2	11160.20	$a^5F_2-z^5G_2$
10080.32	15	9917.60	$a^3D_1-z^3D_1$	8955.73	8	11162.97	$a^5F_1-z^5G_2$
9949.06	20	10048.45	$a^3D_2-z^3D_2$	8949.55	3	11170.67	$b^3H_5-y^3G_4$
9946.30	7	10051.24	$a^3D_1-z^3D_3$	8947.19	50	11173.63	$a^3G_5-z^3F_1$
9934.52	2	10063.16	$y^7P_3-e^5S_2$	8943.70	3	11178.00	$b^3H_4-y^3G_3$
9904.47	8	10093.69	$a^3D_3-z^3D_2$	8939.17	10	11183.65	$a^5F_2-z^5G_3$
9900.87	15	10097.36	$a^3P_2-z^3P_2$	8936.47	4w	11187.03	$a^5F_4-z^5G_4$
9845.19	1	10154.46	$y^7P_2-e^5S_2$	8935.23	2	11188.58	
9773.30	10	10229.15	$a^3D_2-z^3D_3$	8929.41	2	11195.88	$a^5F_5-z^5G_3$
9758.71	2	10244.45	$c^3F_3-y^3F_4$	8925.76	35	11200.47	$a^3G_3-z^3F_2$
9752.84	4	10250.62	$a^3P_1-z^3P_0$	8917.10	18	11211.33	$a^3F_3-z^5G_4$
9734.52	50	10269.91	$a^5G_2-z^5F_1$	8916.19	25	11212.48	$a^5F_4-z^5G_3$
9730.32	25	10274.34	$a^3D_3-z^3D_3$	8898.60	1	11234.64	$a^5F_5-z^5G_3$
9670.48	50	10337.91	$a^5G_3-z^5F_2$				$c^3F_3-y^3G_3$
9667.20	25	10341.42	$a^5G_2-z^5F_3$	8870.33	5	11270.45	$a^5F_4-x^5D_3$
9626.30	4	10385.36	$a^3P_1-z^3P_1$	8859.59	1	11284.11	$a^5F_3-x^5D_3$
9574.25	50	10441.82	$a^5G_4-z^5F_2$	8835.62	25	11314.72	$a^3G_4-z^3F_1$
9571.76	25	10444.54	$a^5G_3-z^5F_3$	8808.80	3	11349.19	$c^5D_1-u^5P_2$
9568.58	4	10448.01	$a^5G_2-z^5F_3$	8796.16	4	11365.48	
9520.13	4	10501.18	$z^7D_3-e^5S_2$	8789.53	2	11374.05	$b^3P_2-z^3D_1$
9447.01	25	10582.46	$a^5G_5-z^5F_4$	8788.28	1	11375.67	
9446.89	20	10582.60	$a^5G_4-z^5F_1$	8786.95	10	11377.39	$c^5D_3-u^5P_3$
9444.33	5	10585.46	$z^7D_1-e^5S_2$	8784.11	3w	11381.07	$c^5D_0-u^5P_1$
			$a^5G_3-z^5F_4$	8773.56	10w	11394.76	$c^5D_2-u^5P_2$

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d, Double; h, hazy; H, very hazy; l, shaded longward; s, shaded shortward; r, reversed; R, strongly reversed; w, wide; W, very wide; Z, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
8767. 10	10	11403. 15	$c^5D_1-u^5P_1^{\uparrow}$	8323. 41	5	12011. 01	$c^5D_1-v^5F_1^{\uparrow}$
8753. 50	15	11420. 87	$b^3P_1-z^3D_1^{\uparrow}$	8323. 32	10	12011. 14	
8746. 40	2	11430. 14	$c^3G_3-1_3^{\uparrow}$	8322. 98	8	12011. 63	$z^7P_3^{\uparrow}-c^5D_4$
8745. 44	1	11431. 39		8322. 05	100	12012. 97	$c^5D_1-v^5F_2^{\uparrow}$
8743. 48	8	11434. 09	$b^3P_0-z^3D_1^{\uparrow}$	8318. 25	30	12018. 46	$y^3F_3^{\uparrow}-e^3G_3$
8732. 14	7	11448. 81	$c^5D_2-u^5P_1^{\uparrow}$	8307. 37	3w	12034. 20	
8718. 68	35	11466. 48	$c^5D_3-u^5P_2^{\uparrow}$	8303. 16	20	12040. 30	$a^5P_1-z^3P_1^{\uparrow}$
8716. 08	2w	11469. 90	$c^5D_1-z^3S_1^{\uparrow}$	8297. 57	7	12048. 41	
8707. 93	40	11480. 63	$f^7D_2-r^5D_1^{\uparrow}$	8296. 90	8	12049. 39	$a^5P_2-z^3P_1^{\uparrow}$
8707. 40	25	11481. 33	$c^5D_4-u^5P_3^{\uparrow}$	8295. 30	2w	12051. 71	$b^3H_6-u^5F_5^{\uparrow}$
8687. 42	15	11507. 74	$b^3P_2-z^3D_3^{\uparrow}$	8290. 64	75w	12058. 49	$c^5D_2-v^5F_3^{\uparrow}$
8686. 38	1w	11509. 12	$f^7D_4-r^5D_4^{\uparrow}$	8287. 40	150	12063. 20	$d^3F_4-1_3^{\uparrow}$
8685. 23	1	11510. 64	$f^7D_3-r^5D_3^{\uparrow}$	8286. 40	5	12064. 65	$c^5D_2-v^5F_3^{\uparrow}$
8681. 88	5	11515. 09	$a^5F_5-x^5D_4^{\uparrow}$	8285. 69	5	12065. 69	$c^3D_2-y^3F_3^{\uparrow}$
8675. 84	2w	11523. 10		8283. 92	4w	12068. 26	$c^3D_3-y^3F_3^{\uparrow}$
8653. 56	2w	11552. 77	$c^5D_2-x^5G_3^{\uparrow}$	8278. 38	4w	12076. 34	$x^5F_5^{\uparrow}-e^5G_5$
8652. 22	6	11554. 56	$b^3P_1-z^3D_2^{\uparrow}$	8273. 84	7w	12082. 97	$x^5F_5^{\uparrow}-e^5G_6$
8643. 00	35	11566. 88	$a^5P_1-z^5D_1^{\uparrow}$	8273. 20	8	12083. 90	$d^3F_4-1_3^{\uparrow}$
8636. 22	35	11575. 97	$a^5P_2-z^5D_1^{\uparrow}$	8271. 57	1	12086. 29	$x^5F_4^{\uparrow}-e^5G_4$
8609. 20	7w	11612. 29		8268. 61	4w	12090. 61	$x^5D_1^{\uparrow}-e^5F_2^{\uparrow}$
8607. 16	4	11615. 05	$f^7D_1-r^5D_2^{\uparrow}$	8264. 28	5w	12096. 95	$x^5F_4^{\uparrow}-e^5G_5$
8582. 98	30w	11647. 77	$y^5H_2^{\uparrow}-e^5G_6$	8261. 96	15	12100. 35	$a^3H_4-z^3F_3^{\uparrow}$
8563. 48	7w	11674. 30	$d^3F_4-t^3F_3^{\uparrow}$	8250. 38	3w	12117. 33	$x^5F_3^{\uparrow}-e^5G_4$
8562. 55	25	11675. 56	$y^5H_3^{\uparrow}-e^5G_5$	8246. 23	6	12123. 42	$c^3D_3-y^3F_4^{\uparrow}$
8555. 50	30	11685. 18	$a^5P_1-z^5D_2^{\uparrow}$	8240. 65	8l	12131. 63	$c^5D_0-v^5D_1^{\uparrow}$
8553. 17	15	11688. 37	$c^5D_2-x^5G_4^{\uparrow}$	8238. 29	50w	12135. 11	$c^5D_3-v^5F_3^{\uparrow}$
8548. 83	50	11694. 30	$b^3P_2-z^3D_3^{\uparrow}$	8235. 89	100	12138. 65	$c^5D_3-v^5F_4^{\uparrow}$
8543. 70	30	11701. 32	$a^5P_2-z^5D_2^{\uparrow}$	8225. 64	6	12153. 78	$c^5D_1-y^5D_1^{\uparrow}$
8537. 78	30w	11709. 44	$y^5H_3^{\uparrow}-e^5G_4$	8224. 08	50	12156. 08	$a^3H_3-z^3F_4^{\uparrow}$
8530. 41	4h	11719. 55	$y^5H_3^{\uparrow}-e^5G_5$	8218. 15	7s	12164. 85	$c^3G_3-w^3G_3^{\uparrow}$
8529. 96	4h	11720. 17		8216. 28	20	12167. 62	$c^5D_1-v^5D_2^{\uparrow}$
8510. 99	20	11746. 29	$y^5H_4^{\uparrow}-e^5G_3$	8214. 67	4	12170. 00	$c^5D_1-v^5D_0^{\uparrow}$
8506. 90	4w	11751. 94	$x^5D_1^{\uparrow}-e^5F_5^{\uparrow}$	8213. 09	7	12172. 34	$c^3D_1-y^3D_1^{\uparrow}$
8502. 60	4w	11757. 88	$b^5D_4-z^3F_3^{\uparrow}$	8212. 23	5	12173. 62	$b^3H_4-t^5F_4^{\uparrow}$
8496. 74	4w	11765. 99	$y^5H_4^{\uparrow}-e^5G_4$	8210. 20	5w	12176. 63	$c^3D_2-y^3D_2^{\uparrow}$
8483. 34	15w	11784. 58	$y^5H_3^{\uparrow}-e^5G_2$	8197. 02	3	12196. 21	$z^7P_2^{\uparrow}-c^5D_3$
8475. 66	4w	11795. 25	$y^5H_3^{\uparrow}-e^5G_3$	8194. 87	4	12199. 40	$c^5D_2-v^5D_1^{\uparrow}$
8458. 11	10	11819. 73		8192. 42	1w	12203. 06	$c^3D_1-y^3D_3^{\uparrow}$
8455. 24	40	11823. 74	$a^5P_2-z^5D_3^{\uparrow}$	8188. 76	8	12208. 51	$d^3F_4-x^3G_5^{\uparrow}$
8450. 25	50	11830. 72	$a^5P_3-z^5D_3^{\uparrow}$	8187. 84	5	12209. 88	$c^3G_4-w^3G_4^{\uparrow}$
8449. 32	3w	11832. 03	$c^5D_4-x^5G_5^{\uparrow}$	8185. 68	15	12213. 10	$c^5D_2-v^5D_2^{\uparrow}$
8449. 10	4w	11832. 33		8180. 10	3	12221. 43	
8444. 56	5w	11838. 69		8169. 79	15w	12236. 86	$c^5D_0-u^5F_1^{\uparrow}$
8442. 97	4	11840. 92		8167. 92	15	12239. 65	$c^3D_3-y^3D_3^{\uparrow}$
8418. 34	3w	11875. 57	$y^3D_2^{\uparrow}-e^3G_3$	8166. 66	25	12241. 55	$c^5D_2-v^5D_3^{\uparrow}$
8416. 52	4w	11878. 14		8166. 41	20	12241. 92	$c^5D_4-v^5F_4^{\uparrow}$
8397. 08	15	11905. 61	$a^5P_1-z^3P_0^{\uparrow}$	8166. 30	30	12242. 10	$b^1G_4-z^1H_3^{\uparrow}$
8380. 53	3	11929. 15	$e^5S_2-t^5P_3^{\uparrow}$	8163. 22	150	12246. 70	$c^5D_4-v^5F_5^{\uparrow}$
8380. 15	4w	11929. 69	$b^5D_4-z^3F_1^{\uparrow}$	8155. 00	22	12259. 05	$c^5D_1-u^5F_1^{\uparrow}$
8378. 51	40	11932. 02	$y^3F_4^{\uparrow}-e^3G_5$	8140. 16	5	12281. 40	$d^3F_2-x^3D_1^{\uparrow}$
8348. 27	75	11975. 24	$a^5P_3-z^5D_4^{\uparrow}$	8128. 27	25	12299. 36	$c^5D_1-u^5F_2^{\uparrow}$
8339. 20	4	11988. 27		8124. 82	7	12304. 58	$c^5D_2-u^5F_1^{\uparrow}$
8338. 84	20w	11988. 79	$c^5D_0-v^5F_1^{\uparrow}$	8119. 14	12	12313. 20	$c^3G_5-w^3G_5^{\uparrow}$
8336. 82	25w	11991. 70	$y^3F_3^{\uparrow}-e^3G_4$	8105. 70	8	12333. 60	$c^5D_3-v^5D_3^{\uparrow}$
8328. 45	7	12003. 74	$c^3F_4-v^5D_4^{\uparrow}$	8099. 75	4	12342. 67	$a^5P_1-z^3P_2^{\uparrow}$
			$x^5D_1^{\uparrow}-e^5F_1^{\uparrow}$				$a^5P_2-z^3P_2^{\uparrow}$

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d, Double; *h*, hazy; *H*, very hazy; *l*, shaded longward; *s*, shaded shortward; *r*, reversed; *R*, strongly reversed; *w*, wide; *W*, very wide; *Z*, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
8098. 24	20	12344. 97	$c^5D_2 - u^5F_3^2$	7722. 90	20	12944. 94	$\left\{ \begin{array}{l} a^5F_2 - y^5G_2^2 \\ b^3F_4 - y^3F_4^2 \end{array} \right.$
8086. 35	5 <i>l</i>	12363. 12	$c^3D_2 - w^5D_1^2$	7705. 40	5 <i>w</i>	12974. 35	
8084. 97	30	12365. 23	$c^5D_3 - v^5D_4^2$	7697. 35	2	12987. 91	$y^5G_3^2 - e^5G_3^2$
8067. 65	8	12391. 78	$c^3D_1 - w^5D_1^2$	7691. 50	7 <i>w</i>	12997. 79	$\left\{ \begin{array}{l} b^3F_3 - y^3F_4^2 \\ y^5D_3^2 - e^5F_4^2 \end{array} \right.$
8065. 04	7	12395. 79	$c^5D_4 - x^5H_3^2$	7684. 82	3	13009. 09	
8061. 26	35	12401. 60	$c^5D_2 - u^5F_3^2$	7623. 45	5	13113. 82	$c^3D_3 - y^3G_3^2$
8053. 30	6	12413. 86	$c^3D_2 - w^5D_2^2$	7574. 70	4	13198. 22	$a^5F_5 - y^5G_3^2$
8050. 67	7	12417. 92	$b^3H_4 - y^3H_4^2$	7570. 79	4 <i>w</i>	13205. 03	$y^5D_4^2 - g^5D_3^2$
8045. 36	18	12426. 11	$b^3H_5 - y^3H_3^2$	7568. 70	5	13208. 68	
8040. 56	6	12433. 53	$c^3D_3 - w^5D_3^2$	7558. 16	6	13227. 10	
8034. 42	5 <i>w</i>	12443. 05	$c^3D_1 - w^5D_3^2$	7549. 16	6 <i>W</i>	13242. 87	$y^5D_3^2 - g^5D_2^2$
8018. 02	10	12468. 48	$c^5D_4 - v^5D_4^2$	7535. 55	18	13266. 78	$y^5F_3^2 - e^5F_5^2$
8014. 90	15 <i>w</i>	12473. 44	$c^5D_3 - u^5F_3^2$	7526. 44	5	13282. 84	
8007. 92	10 <i>W</i>	12484. 21		7502. 12	5 <i>w</i>	13325. 90	$y^5F_3^2 - e^5F_1^2$
8006. 27	5	12486. 78		7489. 32	7 <i>w</i>	13348. 68	$y^5F_4^2 - e^5F_4^2$
8005. 29	4	12488. 31	$c^3D_3 - w^5D_4^2$	7486. 75	6 <i>w</i>	13353. 26	$a^5F_5 - y^5G_3^2$
7990. 52	20	12511. 38	$b^3H_6 - y^3H_5^2$	7484. 69	5	13356. 93	$y^5D_1^2 - g^5D_0^2$
7989. 37	25	12513. 34	$c^5D_3 - u^5F_4^2$	7462. 35	250	13396. 60	$z^7P_4^2 - e^5S_3^2$
7976. 10	5 <i>w</i>	12534. 01	$c^5D_3 - t^5F_4^2$	7454. 05	2 <i>w</i>	13411. 83	$\left\{ \begin{array}{l} y^5D_3^2 - g^5D_3^2 \\ y^5F_2^2 - e^5F_2^2 \end{array} \right.$
7971. 32	10	12541. 53		7445. 68	25	13426. 60	
7942. 05	40	12587. 75	$c^5D_4 - u^5F_5^2$	7429. 42	8	13456. 30	
7939. 88	6 <i>w</i>	12591. 19		7405. 26	10	13500. 20	$b^3H_4 - w^3G_3^2$
7934. 69	1	12599. 42	$c^5D_1 - t^5F_2^2$	7400. 22	200	13509. 40	$z^7P_3^2 - e^5S_3^2$
7926. 86	2	12611. 87		7389. 26	7 <i>w</i>	13529. 43	$\left\{ \begin{array}{l} x^5P_3^2 - e^5F_4^2 \\ y^5D_1^2 - g^5D_2^2 \end{array} \right.$
7924. 01	8	12616. 41	$c^5D_4 - u^5F_4^2$	7379. 61	3	13547. 13	
7917. 84	25	12626. 24	$z^3H_4^2 - e^3G_3^2$	7367. 37	10	13569. 63	$b^3H_5 - w^3G_4^2$
7913. 24	1	12633. 58	$z^3H_4^2 - e^3G_4^2$	7355. 93	150	13590. 73	$z^7P_2^2 - e^5S_3^2$
7911. 60	1 <i>w</i>	12636. 20	$z^3H_3^2 - e^3G_5^2$	7348. 68	20	13604. 14	$b^3H_6 - w^3G_5^2$
7910. 49	25	12637. 97	$z^3H_5^2 - e^3G_4^2$	7332. 55	5 <i>w</i>	13634. 07	$y^5D_3^2 - g^5D_4^2$
7908. 27	35	12641. 62	$z^3H_5^2 - e^3G_5^2$	7323. 28	10	13651. 33	$z^3F_4^2 - e^3F_4^2$
7907. 33	1	12643. 02	$y^5G_6^2 - e^5G_6^2$	7311. 56	6	13673. 21	$a^5G_2 - z^3P_2^2$
7906. 21	2	12644. 81	$\left\{ \begin{array}{l} b^3H_4 - x^3G_3^2 \\ c^5D_4 - t^5F_4^2 \end{array} \right.$	7306. 01	8	13683. 60	$z^3F_3^2 - e^3F_3^2$
7901. 97	4	12651. 60			7305. 69	12	13684. 20
7894. 80	3	12663. 09		7304. 32	4	13686. 76	$d^3F_4 - w^3D_3^2$
7884. 92	4	12678. 96	$c^5D_2 - t^5F_3^2$	7303. 29	6	13688. 70	$z^3F_2^2 - e^3F_2^2$
7882. 07	2	12683. 54	$x^5F_5^2 - e^3G_5^2$	7297. 14	1	13700. 23	$y^5F_2^2 - g^5D_1^2$
7877. 11	2	12691. 54	$b^3H_4 - x^3G_4^2$	7293. 90	8	13706. 32	$c^3G_4 - w^3F_3^2$
7870. 58	8	12702. 06	$t^5P_2^2 - e^5S_3^2$	7280. 27	20	13731. 98	$y^5F_3^2 - g^5D_2^2$
7851. 32	4	12733. 22	$d^3F_4 - x^3D_3^2$	7276. 22	8	13739. 62	$y^5F_1^2 - g^5D_0^2$
7848. 25	4	12738. 19		7264. 30	40	13762. 16	$y^5F_4^2 - g^5D_3^2$
7816. 13	5 <i>w</i>	12790. 54	$y^5D_4^2 - e^5F_4^2$	7236. 22	50	13815. 57	$\left\{ \begin{array}{l} y^5F_5^2 - g^5D_4^2 \\ c^3G_4 - w^3F_1^2 \end{array} \right.$
7815. 49	5 <i>w</i>	12791. 59	$y^5G_5^2 - e^5G_5^2$	7230. 60	8	13826. 31	
7809. 20	5 <i>w</i>	12801. 89		7226. 89	4 <i>w</i>	13833. 40	$b^3D_1 - v^5P_2^2$
7802. 90	5	12812. 23	$d^3F_2 - w^3G_3^2$	7221. 15	5	13844. 40	$y^5F_2^2 - e^3D_1^2$
7800. 67	4	12815. 89		7220. 01	7	13846. 59	$a^3D_2 - z^5G_2^2$
7785. 92	4 <i>wl</i>	12840. 17	$c^5D_1 - x^3P_2^2$	7206. 42	10	13872. 70	$b^3F_3 - z^3G_4^2$
7782. 19	2	12846. 32		7205. 57	3	13874. 33	$b^3D_2 - v^5P_2^2$
7778. 73	4 <i>w</i>	12852. 04	$b^3H_6 - x^3G_5^2$	7218. 60	9	13849. 29	$a^5F_1 - x^5F_1^2$
7771. 69	22	12863. 67	$a^1H_5 - z^1H_3^2$	7212. 56	10	13860. 89	$a^5F_3 - x^5F_2^2$
7763. 01	25	12878. 06	$y^5D_4^2 - e^5F_5^2$	7207. 85	10	13869. 94	$a^5F_2 - x^5F_2^2$
7762. 46	2	12878. 97		7206. 42	10	13872. 70	$b^3F_4 - z^3G_5^2$
7749. 15	6 <i>w</i>	12901. 10	$\left\{ \begin{array}{l} y^5D_3^2 - e^5F_3^2 \\ d^3F_3 - w^3G_4^2 \end{array} \right.$	7205. 57	3	13874. 33	$a^5F_1 - x^5F_2^2$
7748. 77	2	12901. 73					$x^5P_1^2 - e^3D_1^2$
7734. 00	12	12926. 37	$b^3H_5 - x^3G_5^2$				
7726. 00	12	12939. 75	$b^3F_2 - y^3F_2^2$				
			$b^3F_3 - y^3F_3^2$				

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d, Double; *h*, hazy; *H*, very hazy; *l*, shaded longward; *s*, shaded shortward; *r*, reversed; *R*, strongly reversed; *w*, wide; *W*, very wide; *Z*, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
7203. 93	10	13877. 49	$a^5F_4-x^5F_3$	6814. 52	10	14670. 51	$b^3D_1-y^3P_1^{\uparrow}$
7200. 70	10	13883. 71		6812. 99	10	14673. 80	$b^3D_1-y^3P_0^{\uparrow}$
7198. 32	7 <i>w</i>	13888. 28	$\left\{ \begin{array}{l} z^5D_4-g^7D_4 \\ x^5P_1^{\uparrow}-g^5D_2 \\ y^5F_3-e^3D_2 \end{array} \right.$	6805. 77	12 <i>w</i>	14689. 37	
7196. 85	18	13891. 14	$a^5F_3-x^5F_3$	6805. 00	15	14691. 03	$b^3D_2-y^3P_1^{\uparrow}$
7196. 04	7	13892. 71	$a^5F_5-x^5F_4$	6798. 04	12	14706. 07	$b^3D_2-y^3P_2^{\uparrow}$
7195. 53	8	13893. 69	$z^5D_4-g^7D_5$	6796. 52	25 <i>w</i>	14709. 36	$c^5D_3-s^5F_4$
7192. 07	10 <i>w</i>	13900. 38	$\left\{ \begin{array}{l} a^5F_2-x^5F_3 \\ y^5F_3-g^5D_3 \end{array} \right.$	6789. 15	18	14725. 33	$b^3D_3-y^3P_2^{\uparrow}$
7188. 06	18	13908. 13	$a^5F_4-x^5F_3$	6784. 91	8 <i>w</i>	14734. 53	$d^3F_3-w^3P_2^{\uparrow}$
7185. 50	20	13913. 08	$a^5F_5-x^5F_4$	6780. 09	8	14745. 00	$\left\{ \begin{array}{l} a^5F_3-y^3D_2 \\ z^3P_0^{\uparrow}-f^5D_1 \end{array} \right.$
7181. 00	10	13921. 81	$a^5F_3-x^5F_4$	6777. 50	15 <i>wl</i>	14750. 64	
7177. 53	10	13928. 54	$a^5F_4-x^5F_3$	6765. 71	4	14776. 34	
7170. 56	15	13942. 08	$b^3F_4-y^3G_5$	6765. 30	8	14777. 24	$z^5G_6-e^5G_5$
7151. 10	8 <i>w</i>	13980. 01	$\left\{ \begin{array}{l} y^5F_4-e^3D_3 \\ c^5D_1-t^5P_2^{\uparrow} \\ d^3F_4-u^5D_4 \end{array} \right.$	6762. 41	40	14783. 55	$z^5G_6-e^5G_6$
7148. 92	5 <i>w</i>	13984. 28	$y^5F_4-g^5D_4$	6757. 76	25	14793. 73	$z^5G_5-e^5G_4$
7145. 11	7 <i>w</i>	13991. 73	$x^5P_2^{\uparrow}-e^3D_2$	6756. 49	15	14796. 51	$z^5G_5-e^5G_5$
7143. 84	12	13994. 23	$b^3F_3-y^3G_4$	6754. 86	5 <i>w</i>	14800. 08	$\left\{ \begin{array}{l} z^5G_4-e^5G_4 \\ a^5F_3-y^3D_3 \end{array} \right.$
7138. 31	2	14005. 06		6751. 33	40	14807. 82	$z^5G_4-e^5G_4$
7136. 56	12	14008. 50	$b^3F_2-y^3G_3$	6750. 20	2	14810. 30	$a^5F_3-y^3D_3$
7133. 81	3	14015. 29		6749. 43	7 <i>w</i>	14811. 98	$z^5G_3-e^5G_2$
7128. 17	6	14024. 99	$c^5D_2-t^5P_2^{\uparrow}$	6749. 07	6 <i>w</i>	14812. 78	$c^5D_4-s^5F_4$
7118. 33	3 <i>w</i>	14044. 38	$x^5P_1^{\uparrow}-e^3D_2$	6746. 61	10	14818. 18	$\left\{ \begin{array}{l} z^5G_3-e^5G_5 \\ a^3P_2-z^3D_3 \end{array} \right.$
7108. 06	8	14064. 67		6744. 64	15	14822. 50	$z^5G_3-e^5G_4$
7088. 05	1	14104. 37	$b^3D_3-v^5P_3$	6739. 41	6	14834. 01	$z^5G_3-e^5G_3$
7080. 95	3 <i>w</i>	14118. 51	$y^5F_3-e^3D_3$	6738. 81	18	14835. 33	$z^5G_2-e^5G_2$
7057. 34	3 <i>w</i>	14165. 75	$x^5P_3-g^5D_4$	6735. 72	8 <i>w</i>	14842. 13	$e^7D_2-p^5F_1^{\uparrow}$
7056. 28	1	14167. 87	$c^3G_5-z^1H_5$				
7049. 05	5	14182. 40	$a^1H_5-z^2H_5$	6734. 16	30	14845. 57	$\left\{ \begin{array}{l} z^5D_4-f^5D_3 \\ z^5G_2-e^5G_3 \end{array} \right.$
6990. 73	3	14300. 72	$a^3I_7-z^3H_5$	6729. 72	40	14855. 37	$c^5D_4-s^5F_5$
6988. 66	2	14304. 96	$a^3I_6-z^3H_5$	6726. 23	5	14863. 07	
6987. 54	4	14307. 25		6715. 38	35	14887. 09	$z^5D_3-f^5D_2$
6980. 91	50	14320. 84	$y^7P_4-e^7D_3$	6701. 64	10	14917. 61	$b^3D_1-y^3F_2^{\uparrow}$
6979. 81	150	14323. 09	$y^7P_4-e^7D_4$				
6978. 46	300	14325. 86	$y^7P_4-e^7D_5$	6692. 48	1	14938. 03	$b^3D_2-y^3F_3^{\uparrow}$
6935. 57	3 <i>w</i>	14412. 38		6688. 96	2	14945. 89	$a^5F_1-w^5D_1^{\uparrow}$
6934. 04	3 <i>w</i>	14417. 64		6683. 80	2	14957. 43	$b^3D_3-y^3F_2^{\uparrow}$
6930. 13	3	14425. 77	$a^1H_5-x^3H_3$	6680. 21	25 <i>w</i>	14965. 46	$z^5D_3-f^5D_2$
6926. 02	100	14434. 33	$y^7P_3-e^7D_2$	6677. 24	10	14972. 12	$b^3D_2-y^3F_3^{\uparrow}$
6925. 22	150	14436. 00	$y^7P_3-e^7D_3$				
6924. 20	200	14438. 12	$y^7P_3-e^7D_4$	6669. 27	40, <i>Z</i>	14990. 01	$z^5D_3-f^5D_3$
6913. 47	5 <i>w</i>	14460. 53		6668. 67	5	14991. 36	$b^3D_3-y^3F_3^{\uparrow}$
6910. 92	4 <i>w</i>	14465. 87		6667. 78	5	14993. 36	
6903. 20	4 <i>w</i>	14482. 05	$d^3F_4-w^3F_4$	6667. 40	1	14994. 22	$a^5F_2-w^5D_2^{\uparrow}$
6901. 09	15 <i>ws</i>	14486. 48		6665. 11	2	14999. 37	$w^5F_3-e^5P_2$
6896. 04	6	14497. 08	$z^7P_3-e^5S_2$	6663. 93	18	15002. 02	$z^5H_7-e^5G_6$
6894. 70	7	14499. 90		6662. 25	2	15005. 80	
6883. 05	150	14524. 44	$z^7P_2-e^7D_1$	6661. 10	50, <i>Z</i>	15008. 40	$z^5D_4-f^5D_4$
6882. 40	75	14525. 81	$z^7P_2-e^7D_2$	6657. 40	20 <i>w</i>	15016. 42	$z^5D_2-f^5D_2^{\uparrow}$
6881. 62	100	14527. 46	$z^7P_2-e^7D_3$	6655. 02	5	15022. 11	$\left\{ \begin{array}{l} c^5D_0-u^5D_1^{\uparrow} \\ v^5F_4-f^5G_3 \end{array} \right.$
6866. 28	15 <i>ws</i>	14559. 92					
6860. 32	5	14572. 57		6654. 45	4	15023. 40	$b^1I_6-x^3G_5$
6845. 00	10 <i>ws</i>	14605. 18		6652. 35	3	15028. 14	$b^3D_1-y^3D_1^{\uparrow}$
6841. 26	5 <i>w</i>	14613. 17		6651. 92	10	15029. 11	$v^5F_3-f^5G_6$
6829. 86	8	14637. 56	$a^3P_2-z^3D_2$	6648. 76	7	15036. 25	$a^5F_5-w^5D_4^{\uparrow}$
6829. 45	10 <i>ws</i>	14638. 44		6645. 93	5	15042. 66	$c^5D_1-u^5D_3^{\uparrow}$
6818. 82	4 <i>w</i>	14661. 25	$z^3P_1^{\uparrow}-f^5D_2$				$c^5D_1-u^5D_0^{\uparrow}$

TABLE 1. Wavelengths and term combinations of Cr I—Continued

a, Double; *b*, hazy; *H*, very hazy; *l*, shaded longward; *s*, shaded shortward; *r*, reversed; *R*, strongly reversed; *w*, wide; *W*, very wide; *Z*, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
6645. 12	6	15044. 49	$\left\{ \begin{array}{l} a \ ^5F_4 - w \ ^5D_4^o \\ c \ ^5D_1 - u \ ^5D_1^o \\ b \ ^3D_3 - y \ ^3F_4^o \\ b \ ^3G_3 - x \ ^5D_3^o \\ v \ ^5F_4^o - f \ ^5G_5 \\ c \ ^5D_2 - u \ ^5D_3^o \\ c \ ^5D_3 - u \ ^5D_4^o \end{array} \right.$	6520. 06	10	15333. 05	$a \ ^5F_2 - w \ ^5F_3^o$
6643. 02	20	15049. 24		6518. 98	3	15335. 60	$z \ ^5H_3 - e \ ^5G_3$
6642. 27	10	15050. 95		6517. 12	3	15339. 97	$b \ ^3D_2 - w \ ^5D_3^o$
6640. 42	8	15055. 14		6516. 95	4	15340. 37	$b \ ^3D_3 - w \ ^5D_3^o$
6639. 91	8	15056. 29		6516. 00	20	15342. 61	$a \ ^5F_4 - w \ ^5F_4^o$
6639. 06	5	15058. 22	$a \ ^5F_3 - w \ ^5D_4^o$	6510. 24	12	15356. 18	$a \ ^5F_3 - w \ ^5F_4^o$
6638. 07	1	15060. 47	$b \ ^3D_1 - y \ ^3D_2^o$	6509. 37	3	15358. 24	$c \ ^3G_5 - y \ ^3F_5^o$
6636. 31	10 <i>w</i>	15064. 46	$z \ ^5D_1^o - f \ ^5D_0$	6508. 94	4	15359. 25	$b \ ^3D_3 - w \ ^5D_3^o$
6635. 39	2	15066. 55	$e \ ^7D_5 - p \ ^5F_3^o$	6506. 13	5	15365. 88	
6632. 43	2 <i>w</i>	15073. 27		6501. 21	20	15377. 51	$a \ ^5D_2 - z \ ^7P_2^o$
6630. 00	30	15078. 80	$a \ ^5D_4 - z \ ^7P_3^o$	6496. 94	5	15387. 62	
6629. 08	2	15080. 89	$b \ ^3D_2 - y \ ^3D_2^o$	6495. 37	10	15391. 34	
6628. 69	6	15081. 78	$c \ ^5D_2 - u \ ^5D_2^o$	6490. 23	4	15403. 53	$a \ ^5D_3 - z \ ^7P_1^o$
6627. 83	3 <i>w</i>	15083. 74	$z \ ^5D_1^o - f \ ^5D_1$	6477. 53	8	15433. 73	$a \ ^3P_0 - z \ ^3D_1^o$
6627. 28	6	15084. 99	$a \ ^3P_1 - z \ ^3D_1^o$	6470. 05	6	15451. 57	$x \ ^5G_{\frac{7}{2}} - f \ ^5G_6$
6625. 18	10	15089. 77	$c \ ^5D_2 - u \ ^5D_1^o$	6467. 02	8	15458. 81	$a \ ^5D_2 - z \ ^7P_3^o$
6623. 92	3	15092. 64		6452. 26	15	15494. 17	$a \ ^5D_1 - z \ ^7P_3^o$
6620. 54	2	15100. 34	$b \ ^3D_3 - y \ ^3D_3^o$	6438. 57	8	15527. 12	$a \ ^5F_4 - z \ ^3G_4^o$
6612. 17	40	15119. 46	$z \ ^5D_2^o - f \ ^5D_3^o$	6436. 24	15	15532. 74	$a \ ^1I_6 - z \ ^3I_6^o$
6608. 90	15	15126. 94	$c \ ^5D_3 - u \ ^5D_3^o$	6434. 45	4	15537. 06	
6607. 23	15	15130. 76	$z \ ^5H_6 - e \ ^5G_5$	6432. 78	8	15541. 09	$c \ ^3D_2 - y \ ^3S_1^o$
6605. 50	35	15134. 73	$z \ ^5D_1^o - f \ ^5D_2$	6428. 14	25	15552. 31	$c \ ^5D_4 - w \ ^3F_3^o$
6604. 46	12	15137. 11	$z \ ^5H_6 - e \ ^5G_6$	6415. 69	8	15582. 49	
6603. 77	2	15138. 69	$b \ ^3F_4 - t \ ^5F_3^o$	6411. 57	10	15592. 50	$a \ ^5F_5 - z \ ^3G_5^o$
6600. 54	7	15146. 10	$b \ ^3D_2 - y \ ^3D_3^o$	6391. 63	8	15641. 15	$c \ ^3G_4 - x \ ^3H_5^o$
6597. 56	40	15152. 94	$z \ ^5D_3^o - f \ ^5D_4$	6383. 14	2	15661. 95	$c \ ^5D_4 - w \ ^3F_4^o$
6597. 42	5	15153. 26	$c \ ^5D_3 - u \ ^5D_2^o$	6378. 69	3	15672. 88	$b \ ^3F_4 - x \ ^3G_5^o$
6594. 69	20	15159. 54	$c \ ^5D_4 - u \ ^5D_4^o$	6377. 16	1	15676. 63	$z \ ^5F_4^o - f \ ^7D_5$
6592. 15	7	15165. 38	$b \ ^3D_3 - y \ ^3D_3^o$	6376. 35	3 <i>w</i>	15678. 63	$z \ ^5F_5^o - f \ ^7D_5$
6590. 46	10 <i>w</i>	15169. 27	$z \ ^5D_6^o - f \ ^5D_1$	6375. 19	7	15681. 48	$c \ ^3G_5 - x \ ^3H_6^o$
6586. 16	12	15179. 17		6374. 60	3 <i>w</i>	15682. 93	$a \ ^5F_3 - x \ ^5G_2^o$
6580. 95	8	15191. 19	$a \ ^5D_4 - z \ ^7P_4^o$	6373. 45	4	15685. 76	$c \ ^3D_3 - x \ ^3F_4^o$
6572. 90	25	15209. 79	$a \ ^5D_3 - z \ ^7P_2^o$	6370. 78	5	15692. 34	$a \ ^5F_2 - x \ ^5G_2^o$
6569. 01	15	15218. 80	$\left\{ \begin{array}{l} a \ ^3P_1 - z \ ^3D_2^o \\ z \ ^5H_5 - e \ ^5G_4 \\ z \ ^5H_5 - e \ ^5G_5 \end{array} \right.$	6369. 69	1	15695. 02	$a \ ^5F_1 - x \ ^5G_2^o$
6564. 57	8	15229. 09		6369. 23	3	15696. 15	
6564. 15	7	15230. 07		6362. 87	35, <i>Z</i>	15711. 84	$a \ ^5S_2 - z \ ^7P_2^o$
6556. 38	15	15248. 11		6361. 82	2	15714. 44	$c \ ^3D_2 - x \ ^3F_4^o$
6555. 82	4	15249. 42		6357. 37	7	15725. 44	
6547. 02	3	15269. 91	$b \ ^3D_1 - w \ ^5D_1^o$	6356. 50	4	15727. 59	
6542. 84	12	15279. 67	$b \ ^3D_2 - w \ ^5D_1^o$	6353. 00	2	15736. 25	$a \ ^5F_1 - z \ ^3S_1^o$
6542. 09	10	15281. 42		6349. 01	3	15746. 14	$c \ ^3D_1 - x \ ^3F_3^o$
6537. 93	25	15291. 15	$z \ ^5H_4 - e \ ^5G_3$	6348. 40	2	15747. 66	$a \ ^5F_4 - x \ ^5G_3^o$
6537. 15	5	15292. 97	$a \ ^5D_3 - z \ ^7P_3^o$	6344. 42	4	15757. 53	$e \ ^5S_2 - s \ ^5D_3^o$
6533. 94	2	15300. 48	$z \ ^5H_4 - e \ ^5G_4$	6342. 87	7	15761. 38	$c \ ^3G_3 - x \ ^3H_4^o$
6529. 74	5	15310. 32	$b \ ^3D_1 - w \ ^5D_3^o$	6336. 44	4	15777. 38	$a \ ^5F_3 - x \ ^5G_3^o$
6529. 20	20	15311. 59	$a \ ^5F_5 - w \ ^5F_5^o$	6330. 13	45, <i>Z</i>	15793. 11	$a \ ^5S_2 - z \ ^7P_3^o$
6528. 66	6	15312. 85	$a \ ^5F_3 - w \ ^5F_3^o$	6328. 84	2 <i>w</i>	15796. 32	$a \ ^5F_5 - x \ ^5G_4^o$
6525. 16	2	15321. 07	$b \ ^3D_2 - w \ ^5D_2^o$	6327. 45	12	15799. 80	$b \ ^3F_2 - x \ ^3D_1^o$
6524. 76	15	15322. 01	$a \ ^5F_2 - w \ ^5F_2^o$	6323. 78	5	15808. 96	
6524. 27	4	15323. 15	$a \ ^5F_2 - w \ ^5F_1^o$	6322. 57	10	15811. 99	$a \ ^5F_4 - x \ ^5G_4^o$
6523. 95	8	15323. 91	$a \ ^5F_3 - w \ ^5F_3^o$				
6523. 62	8	15324. 69	$a \ ^5F_1 - w \ ^5F_3^o$	6317. 10	1	15825. 68	$a \ ^5F_3 - x \ ^5G_4^o$
6523. 51	5	15324. 94	$z \ ^5H_3 - e \ ^5G_2$	6315. 82	10	15828. 89	$a \ ^5F_5 - x \ ^5G_6^o$
6523. 08	8	15325. 96	$a \ ^5F_1 - w \ ^5F_1^o$	6313. 21	12	15835. 43	$a \ ^5F_5 - x \ ^5G_5^o$
			$a \ ^5F_4 - w \ ^5F_3^o$	6307. 07	4	15850. 85	$a \ ^5F_4 - x \ ^5G_3^o$
6522. 64	12	15326. 99	$a \ ^5F_5 - w \ ^5F_4^o$	6296. 50	2	15877. 46	$c \ ^3D_3 - t \ ^5P_3^o$

TABLE I. Wavelengths and term combinations of Cr I—Continued

d, Double; *h*, hazy; *H*, very hazy; *l*, shaded longward; *s*, shaded shortward; *r*, reversed; *R*, strongly reversed; *w*, wide; *W*, very wide; *Z*, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
6292. 83	2	15886. 71	$c^3D_2-y^5S_2$	6004. 57	10	16649. 38	$\left\{ \begin{array}{l} a^5F_5-t^5F_4^{\circ} \\ a^1G_4-1_3^{\circ} \end{array} \right.$
6286. 87	4	15901. 78	$b^3P_2-z^5S_2$	5999. 97	7	16662. 14	
6261. 30	15	15966. 72	$b^3F_3-x^3D_2$	5998. 91	1	16665. 09	$a^5F_4-t^5F_4^{\circ}$
6253. 24	5	15987. 30	$b^3F_2-x^3D_2$	5998. 09	15	16667. 37	
6249. 92	8	15995. 79	$y^5F_3-e^5G_6$	5997. 14	12	16670. 01	$a^1H_5-v^3F_4$
6243. 13	5	16013. 18					
6224. 91	1	16060. 05	$b^3D_2-z^3S_1$	5992. 31	15	16683. 45	$\left\{ \begin{array}{l} b^5D_2-x^5P_2^{\circ} \\ c^3G_4-v^3G_4^{\circ} \\ z^7D_2-e^5D_3 \end{array} \right.$
6223. 71	7	16063. 15	$z^3D_3-e^3D_2$	5991. 20	10	16686. 54	
6219. 52	4	16073. 97	$z^3D_3-e^3D_1$	5983. 22	20	16708. 79	
6205. 20	10	16111. 07		5982. 85	40	16709. 82	$z^7F_3-e^7D_4$
6204. 19	10 <i>w</i>	16113. 69		5981. 96	25	16712. 31	$z^7F_3-e^7D_5$
6190. 84	4	16148. 44	$y^5F_4-e^5G_4$	5978. 73	18	16721. 34	$b^3H_4-y^3I_3$
6187. 14	7	16158. 10	$y^5F_4-e^5G_5$	5978. 69	4	16721. 45	$\left\{ \begin{array}{l} c^3G_3-v^3G_4^{\circ} \\ a^3D_3-z^3H_4 \end{array} \right.$
6176. 72	10	16185. 35	$b^3F_4-x^3D_3$	5977. 76	15	16724. 05	
6172. 05	15	16197. 60		5974. 39	10	16733. 48	
6171. 56	7	16198. 89	$c^3D_1-w^3D_1$	5972. 30	10	16739. 34	$b^5D_3-x^5P_3$
6168. 21	10 <i>w</i>	16207. 68	$\left\{ \begin{array}{l} z^3D_1-e^3D_1 \\ a^5F_4-z^3I_3 \end{array} \right.$	5970. 69	18	16743. 85	$\left\{ \begin{array}{l} b^5D_2-x^5P_3^{\circ} \\ b^3H_6-y^3I_7^{\circ} \end{array} \right.$
6159. 49	10	16230. 63		$y^7P_3-e^5D_4$	5965. 23	4	
6154. 43	25	16243. 97	$z^3D_2-e^3D_2$	5964. 60	18	16760. 95	$b^5D_4-x^5P_3^{\circ}$
6152. 71	10	16248. 51	$\left\{ \begin{array}{l} y^7P_3-e^5D_3 \\ c^3D_2-w^3D_2 \end{array} \right.$	5959. 17	18	16776. 22	$b^3H_5-y^3I_6$
6152. 14	6	16250. 02		$b^3F_3-x^3D_3$	5957. 56	7	16780. 76
6146. 83	3	16264. 06		5955. 56	7	16786. 39	$b^1G_1-y^1H_5$
6141. 71	15	16277. 61	$c^3D_1-w^3D_3$	5954. 75	8	16788. 68	$z^7D_1-e^5D_1$
6138. 24	4	16286. 82	$y^5F_3-e^5G_4$	5950. 70	10	16800. 10	$x^5H_7-e^5H_7$
6135. 76	25	16293. 40	$z^3D_3-e^3D_3$	5938. 74	15	16833. 94	$c^3G_4-v^3G_5$
6125. 06	4	16321. 83		5935. 37	12	16843. 49	
6122. 49	5	16328. 71	$c^3D_2-w^3D_3$	5935. 02	15	16844. 49	$c^3G_5-v^3G_5^{\circ}$
6122. 17	7	16329. 57	$\left\{ \begin{array}{l} b^3F_2-w^3G_3 \\ c^3D_3-w^3D_3 \end{array} \right.$	5933. 25	15	16849. 51	$b^3H_4-2_3^{\circ}$
6104. 20	5	16377. 64		$z^3D_1-e^3D_2$	5930. 35	12	16857. 75
6102. 70	30, <i>Z</i>	16381. 66		5928. 61	7	16862. 70	$a^5F_2-t^5F_2^{\circ}$
6099. 54	5	16390. 15	$y^5F_2-e^5G_3$	5925. 63	10	16871. 18	
6098. 39	3	16393. 24	$b^3F_3-w^3G_4$	5922. 18	20	16881. 01	
6087. 74	5	16421. 92		5921. 30	35	16883. 52	
6068. 47	10	16474. 01	$z^3D_3-e^3D_3$	5919. 90	15	16887. 51	$\left\{ \begin{array}{l} a^5F_3-t^5F_3^{\circ} \\ a^3I_5-x^5H_6 \end{array} \right.$
6062. 75	50	16489. 61	$z^7F_6-e^7D_5$	5919. 31	25	16889. 19	
6055. 09	25	16510. 47		5917. 97	15	16893. 02	$a^3I_6-x^5H_6$
6054. 41	25	16512. 32					
6053. 12	30	16515. 84					
6047. 68	18	16530. 67					
6045. 41	12	16536. 91	$\left\{ \begin{array}{l} a^3I_5-z^3I_3 \\ a^3I_6-z^3I_3 \end{array} \right.$	5917. 39	20	16894. 67	$a^3I_7-x^5H_6$
6040. 44	6 <i>w</i>	16550. 51		$b^3F_4-x^3F_3$	5916. 73	30	16896. 55
6039. 74	8 <i>w</i>	16552. 43		5915. 94	25	16898. 81	$\left\{ \begin{array}{l} a^5D_4-z^7F_3 \\ z^7F_4-e^7D_4 \end{array} \right.$
6039. 27	8	16553. 72	$a^5F_3-u^5F_3^{\circ}$	5904. 21	40 <i>s</i>	16932. 39	
6037. 00	8	16559. 94	$b^3F_3-x^3F_4^{\circ}$	5903. 21	8	16935. 25	$a^5F_4-y^3H_5$
6029. 30	18	16581. 09	$a^3I_6-z^3I_6$	5902. 17	25	16938. 24	$b^5D_1-y^5D_6$
6028. 53	1	16583. 21	$a^1H_5-u^3F_4$	5894. 87	3	16959. 21	$a^3I_5-u^5F_4$
6027. 75	1	16585. 35	$e^5D_0-s^3D_1$	5894. 16	3	16961. 25	
6025. 27	10	16592. 18	$\left\{ \begin{array}{l} a^5F_5-u^5F_5^{\circ} \\ b^3F_3-x^3F_2^{\circ} \end{array} \right.$	5892. 33	35 <i>s</i>	16966. 52	$y^5H_6-f^5G_6$
6023. 68	10	16596. 56		$a^5F_4-u^5F_3^{\circ}$	5888. 02	25	16978. 97
6022. 85	2	16598. 85	$c^3G_3-v^3G_3^{\circ}$	5886. 44	10	16983. 50	$\left\{ \begin{array}{l} y^5H_6-f^5G_5 \\ c^3D_1-w^3F_2^{\circ} \end{array} \right.$
6019. 58	10	16607. 87	$a^5F_4-u^5F_5^{\circ}$	5885. 05	20	16987. 46	
6014. 79	10	16621. 09	$a^5F_5-u^5F_4^{\circ}$	5884. 47	30	16989. 24	$b^5D_2-x^5P_1^{\circ}$
6011. 37	1	16630. 55	$b^5D_2-x^5P_1^{\circ}$	5884. 25	15	16997. 97	$x^5H_6-e^5H_7$
6006. 61	1	16643. 73	$b^5D_1-x^5P_1^{\circ}$	5879. 81	20	17002. 65	$b^5D_1-y^5D_1^{\circ}$
6006. 30	20	16644. 59	$a^3I_7-z^3I_7$				

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d Double; *h*, hazy; *H*, very hazy; *l*, shaded longward; *s*, shaded shortward; *r*, reversed; *R*, strongly reversed; *w*, wide; *W*, very wide; *Z*, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination	
5878. 04	50 _s	17007. 77	$\left\{ \begin{array}{l} y \ ^5H_5-f \ ^5G_4 \\ x \ ^5H_5-e \ ^5H_5 \\ b \ ^5D_0-y \ ^5D_1 \\ c \ ^3D_2-w \ ^3F_3 \end{array} \right.$	5787. 97	85	17272. 44	$z \ ^5P_3-e \ ^5D_3$	
5876. 57	25	17012. 03		5787. 04	25	17275. 21	$b \ ^5D_2-y \ ^5D_3$	
5875. 63	25	17014. 74		5785. 92	10	17278. 56	$\left\{ \begin{array}{l} a \ ^5D_2-z \ ^7F_3 \\ a \ ^5D_1-z \ ^7F_3 \end{array} \right.$	
5873. 04	75 _s	17022. 25		5785. 77	75	17279. 00	$z \ ^5P_1-e \ ^5D_2$	
5871. 18	15	17027. 64	$y \ ^5H_5-f \ ^5G_5$	5785. 02	75	17281. 24	$z \ ^5P_3-e \ ^5D_3$	
5867. 98	10	17036. 93	$a \ ^3D_2-y \ ^3P_1$	5783. 89	75	17284. 62	$\left\{ \begin{array}{l} z \ ^5P_3-e \ ^5D_2 \\ a \ ^3D_2-y \ ^3F_2 \end{array} \right.$	
5867. 05	50	17039. 63	$a \ ^3D_1-y \ ^3P_1$	5783. 11	75	17286. 95	$a \ ^3D_1-y \ ^3F_2$	
5865. 88	10	17043. 03	$a \ ^3D_1-y \ ^3P_0$				$z \ ^5P_1-e \ ^5D_1$	
5864. 44	20 _w	17047. 21	$y \ ^5H_4-f \ ^5G_3$	5781. 79	50	17290. 90	$z \ ^5P_1-e \ ^5D_0$	
5863. 97	25	17048. 58	$z \ ^7F_3-e \ ^7D_2$				$\left\{ \begin{array}{l} a \ ^3H_4-y \ ^5F_4 \\ b \ ^3D_4-y \ ^5D_3 \end{array} \right.$	
5863. 39	25	17050. 26	$z \ ^7F_3-e \ ^7D_3$	5781. 18	50	17292. 72	$z \ ^5P_2-e \ ^5D_1$	
5862. 80	25	17051. 98	$\left\{ \begin{array}{l} a \ ^5F_5-y \ ^3H_6 \\ a \ ^5D_4-z \ ^7F_4 \\ a \ ^3D_2-y \ ^3P_2 \end{array} \right.$	5780. 94	25	17293. 44	$z \ ^5P_3-e \ ^5D_2$	
5858. 15	12	17065. 52		5777. 76	25	17302. 96	$b \ ^3D_2-x \ ^3P_1$	
5856. 42	10	17070. 56		$b \ ^3F_2-w \ ^3D_1$	5777. 32	20	17304. 28	
5854. 27	75	17076. 83	$a \ ^5P_3-z \ ^3D_3$	5774. 94	40 _s	17311. 41	$c \ ^3D_2-w \ ^3P_1$	
				5772. 67	25	17318. 22	$a \ ^3D_2-y \ ^3F_3$	
				5772. 03	15	17320. 14		
5852. 11	15	17083. 13	$a \ ^5D_2-z \ ^7F_1$	5771. 55	75 _s	17321. 58		
5849. 04	3	17092. 09	$a \ ^3I_7-x \ ^5H_7$	5766. 32	15	17337. 29	$\left\{ \begin{array}{l} a \ ^3H_5-y \ ^5F_5 \\ a \ ^1H_5-u \ ^3H_5 \end{array} \right.$	
5847. 77	20	17095. 81	$y \ ^5H_5-f \ ^5G_3$					
5844. 60	40	17105. 08	$b \ ^5D_3-y \ ^5D_2$	5762. 13	15	17349. 89	$d \ ^3F_4-v \ ^3G_4$	
5843. 21	25	17109. 15	$b \ ^5D_2-y \ ^5D_2$	5761. 51	10	17351. 61	$c \ ^3D_3-w \ ^3P_2$	
5839. 58	50 _s	17119. 78		5759. 41	4	17358. 09		
5838. 68	25	17122. 42	$b \ ^5D_1-y \ ^5D_3$	5758. 99	50 _s	17359. 35		
5838. 38	15	17123. 30	$b \ ^3F_3-w \ ^3D_2$	5758. 26	25 _s	17361. 55		
5837. 85	10	17124. 86	$c \ ^3D_3-w \ ^3F_4$	5755. 30	10	17370. 48	$a \ ^1H_5-u \ ^3H_6$	
5828. 88	15	17151. 21	$b \ ^3F_4-w \ ^3D_3$	5754. 54	40 _s	17372. 78		
				5753. 66	25, <i>Z</i>	17375. 43	$d \ ^3F_3-v \ ^3G_4$	
5825. 43	10	17161. 37	$\left\{ \begin{array}{l} b \ ^3D_1-t \ ^5F_1 \\ a \ ^5D_2-z \ ^7F_3 \\ z \ ^7F_3-e \ ^7D_1 \\ z \ ^7F_3-e \ ^7D_2 \end{array} \right.$	5751. 10	15	17383. 17		
5824. 37	60 _s	17164. 49		5747. 83	40 _s	17393. 06	$a \ ^5F_5-x \ ^3G_3$	
5824. 05	15	17165. 43		$z \ ^7F_3-e \ ^7D_2$	5746. 40	25	17397. 38	$\left\{ \begin{array}{l} a \ ^3I_7-y \ ^3H_6 \\ a \ ^3D_1-y \ ^3D_1 \end{array} \right.$
5823. 40	8	17167. 23		$z \ ^7F_3-e \ ^7D_3$				
5822. 87	7	17168. 91	$\left\{ \begin{array}{l} b \ ^3D_1-t \ ^5F_2 \\ a \ ^3H_5-y \ ^5F_4 \end{array} \right.$	5743. 11	10	17407. 35	$a \ ^1H_5-y \ ^1H_5$	
				5742. 56	8	17409. 02		
5822. 36	75 _s	17170. 42		5741. 21	8	17413. 11		
5820. 13	10	17177. 00	$b \ ^3D_1-x \ ^3P_0$	5738. 53	30	17421. 25	$a \ ^3D_3-y \ ^3F_4$	
5819. 67	7	17178. 36		5736. 63	18	17427. 01	$a \ ^3D_2-y \ ^3D_2$	
5818. 49	8	17181. 84	$b \ ^3D_2-t \ ^5F_1$	5735. 54	8	17430. 33	$b \ ^3D_2-x \ ^3P_2$	
5815. 85	20	17189. 63	$b \ ^3D_2-t \ ^5F_2$	5729. 86	12	17447. 61		
5809. 56	40	17208. 25		5729. 20	20	17449. 62	$b \ ^3D_3-x \ ^3P_2$	
5808. 14	40 _s	17212. 44		5727. 06	12	17456. 14		
5801. 14	30	17233. 22	$a \ ^3I_5-y \ ^3H_4$	5724. 01	12	17465. 44		
5798. 50	25	17241. 07	$a \ ^3D_4-z \ ^7F_5$	5721. 78	10	17472. 24	$a \ ^3D_3-y \ ^3D_3$	
5797. 90	30 _s	17242. 85	$\left\{ \begin{array}{l} z \ ^7F_1-e \ ^7D_1 \\ b \ ^3D_3-t \ ^5F_3 \end{array} \right.$	5719. 82	40	17478. 23	$b \ ^5D_3-y \ ^5D_4$	
				5716. 10	10	17489. 60	$b \ ^3G_5-x \ ^5F_3$	
5796. 74	40, <i>Z</i>	17246. 30	$d \ ^3F_3-v \ ^3G_3$	5715. 20	15	17492. 36	$a \ ^3D_2-y \ ^3D_3$	
5794. 59	12	17252. 70	$d \ ^3F_3-v \ ^3G_3$	5712. 77	35, <i>Z</i>	17499. 80	$b \ ^5D_4-y \ ^5D_4$	
5793. 15	5	17256. 99		5712. 62	20, <i>Z</i>	17500. 26	$d \ ^3F_4-v \ ^3G_3$	
5792. 14	10	17260. 00	$a \ ^5D_0-z \ ^7F_1$	5708. 46	20	17513. 01		
5791. 75	25	17261. 16	$a \ ^3I_6-y \ ^3H_5$	5706. 31	8	17519. 61		
5791. 00	100, <i>Z</i>	17263. 40	$z \ ^5P_3-e \ ^5D_4$	5703. 61	8	17527. 90		
5790. 65	10	17264. 41	$a \ ^5D_3-z \ ^7F_4$	5702. 30	60, <i>Z</i>	17531. 93	$b \ ^3G_5-z \ ^3H_6$	
5790. 10	25	17266. 08		5700. 50	40	17537. 47	$\left\{ \begin{array}{l} b \ ^3G_5-z \ ^3H_6 \\ a \ ^3D_3-y \ ^3D_3 \end{array} \right.$	
5788. 79	15	17269. 99	$c \ ^3D_1-w \ ^3P_0$	5698. 32	100, <i>Z</i>	17544. 17	$z \ ^5F_5-f \ ^5D_4$	
5788. 38	25	17271. 21	$b \ ^5D_3-y \ ^5D_3$					

TABLE I. Wavelengths and term combinations of Cr I—Continued

d, Double; *h*, hazy; *H*, very hazy; *l*, shaded longward; *s*, shaded shortward; *r*, reversed; *R*, strongly reversed; *w*, wide; *W*, very wide; *Z*, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
5696. 64	12	17549. 35		5574. 40	12	17934. 18	$b^3H_4-v^3G_3$
5696. 20	50	17550. 70	$a^3G_5-z^5G_5$	5572. 45	6	17940. 46	
5695. 23	15	17553. 69		5571. 46	25	17943. 65	
5694. 72	75, <i>Z</i>	17555. 27	$z^5F_4-f^5D_3$	5568. 28	18	17953. 89	$a^3H_6-z^5H_3$
5690. 97	20	17566. 83	$c^3G_4-v^3H_4$	5566. 55	20	17959. 47	$b^3G_4-y^5H_5$
			$a^3G_5-z^5G_5$				
			$c^3G_5-z^5I_6$	5565. 40	5	17963. 18	$c^3G_4-v^3F_4$
5689. 08	10	17572. 67		5563. 66	15	17968. 80	$b^3G_3-y^5H_3$
5683. 53	50	17589. 83		5560. 75	15	17978. 21	$b^3D_1-x^3D_2$
5682. 47	75	17593. 11	$z^5F_3-f^5D_2$	5559. 17	25	17983. 31	$b^1G_4-4_3$
5681. 22	20	17596. 98		5556. 18	10	17992. 99	$b^5D_2-x^5D_1$
5681. 07	40	17597. 45		5555. 59	8	17994. 90	$a^3D_2-w^5F_3$
5679. 42	8	17602. 56	$b^3G_4-x^5F_5$	5555. 26	4	17995. 98	$a^3D_2-w^5F_1$
5677. 78	12	17607. 64	$x^5G_5-e^5H_4$	5554. 32	15	17999. 02	$a^3D_1-w^5F_1$
5676. 32	10	17612. 17	$x^5G_4-e^5H_5$	5552. 87	5	18003. 72	$b^3D_2-x^3D_2$
5675. 79	10	17613. 82	$x^5G_5-e^5H_6$	5549. 17	7	18015. 72	$b^3F_3-w^3F_4$
5675. 08	15	17616. 02	$a^3D_2-w^5D_1$				
5674. 19	20	17618. 78	$a^3D_1-w^5D_1$	5548. 61	15	18017. 54	$b^3G_3-y^5H_4$
5671. 99	12	17625. 62	$x^5G_3-e^5H_4$	5546. 61	7	18024. 04	$a^3H_5-z^5H_4$
5669. 72	10	17632. 67	$c^3G_5-v^3H_3$	5544. 56	20	18030. 70	$w^5F_3-e^5H_3$
5668. 49	15	17636. 50		5543. 33	20	18034. 70	$w^5F_2-e^5H_3$
5667. 83	18	17638. 55	$b^1I_6-z^5H_3$	5540. 70	15	18043. 26	$b^3H_5-v^3G_4$
5666. 99	10	17641. 17	$a^3G_4-z^5G_3$	5539. 52	10	18048. 11	
5664. 57	35	17648. 70	$z^5F_2-f^5D_1$	5538. 20	6	18051. 41	$a^3D_3-w^5F_3$
5664. 04	45, <i>Z</i>	17650. 36	$b^3G_4-z^3H_3$	5535. 48	10	18060. 28	
5662. 64	15	17654. 72	$b^3G_4-z^3H_4$	5534. 63	7	18063. 05	$w^5F_3-e^5H_4$
5659. 52	10	17664. 45	$x^5G_2-e^5H_3$	5529. 55	10	18079. 64	$a^5G_2-z^3D_1$
5658. 62	25	17667. 26	$a^3D_2-w^5D_2$				$y^5G_3-f^5G_4$
5654. 10	10	17681. 39	$a^3G_4-z^5G_4$	5528. 90	7	18081. 77	$w^5F_4-e^5H_5$
5649. 38	50	17696. 16	$c^3G_5-v^3H_3$	5528. 37	3	18083. 50	$a^3D_3-w^5F_4$
5648. 25	40	17699. 70	$z^5F_3-f^5D_3$	5527. 90	7	18085. 04	
5647. 89	40 <i>w</i>	17700. 83	$z^5F_2-f^5D_2$	5526. 49	7	18089. 65	$a^5F_3-w^3G_4$
5646. 39	20 <i>w</i>	17705. 53	$z^5F_1-f^5D_0$	5525. 91	4	18091. 55	$a^3H_4-z^5H_3$
5645. 53	25	17708. 23	$a^3G_3-z^5G_3$	5519. 62	18	18112. 17	
5644. 26	15	17712. 21	$y^7P_2-f^7S_2$	5519. 00	3	18114. 20	$a^5F_2-w^5G_2$
5642. 40	50	17718. 05	$a^3D_3-w^5D_2$	5513. 38	5	18132. 67	
5641. 73	40 <i>w</i>	17720. 15	$z^5F_4-f^5D_4$	5512. 70	10	18134. 91	$b^5D_3-x^5D_2$
			$z^5F_1-f^5D_1$	5512. 05	7	18137. 04	$y^5G_4-f^5G_4$
5638. 20	20	17731. 25	$a^3D_3-w^5D_2$	5511. 47	3	18138. 95	$b^5D_2-x^5D_2$
5628. 64	50, <i>Z</i>	17761. 36	$a^3G_3-z^5G_4$	5509. 94	15	18143. 99	$b^3H_6-v^3G_5$
5627. 72	8	17764. 27	$b^3G_3-z^3H_4$	5508. 22	18	18149. 66	
5625. 58	10	17771. 02	$z^5F_1-f^5D_2$	5507. 45	6	18152. 19	$b^5D_1-x^5D_2$
5625. 03	7	17772. 76		5505. 00	10	18160. 27	$a^5F_4-w^3G_5$
5623. 69	10	17777. 00		5503. 72	4	18164. 49	$a^5F_2-w^5G_3$
5609. 17	35	17823. 01	$y^7P_3-f^7S_3$	5497. 66	18	18184. 52	$d^3F_3-w^3H_4$
5601. 80	12	17846. 46	$b^3G_5-y^5H_3$	5494. 16	4	18196. 10	$a^3H_5-z^5H_5$
5600. 68	12	17850. 03	$b^3F_2-w^3F_2$	5492. 89	8	18200. 31	
5597. 87	18	17858. 99	$z^5F_3-f^5D_4$	5492. 70	10	18200. 94	
5592. 44	10	17876. 33		5490. 30	8	18208. 90	$a^5F_3-w^5G_4$
5591. 90	10	17878. 06		5490. 17	7	18209. 33	$a^5G_3-z^3D_2$
5588. 23	12	17889. 80	$b^3F_3-w^3F_3$	5489. 03	10	18213. 10	$a^5G_2-z^3D_2$
5588. 05	30	17890. 37	$b^3G_5-y^5H_3$	5486. 52	10	18221. 44	$d^3F_4-w^3H_3$
5583. 72	7	17904. 25		5486. 10	8	18222. 84	
5581. 60	15	17911. 05	$b^3G_4-y^5H_4$	5485. 72	8	18224. 10	$a^5F_5-w^5G_3$
5580. 48	25	17914. 64	$y^7P_2-f^7S_3$	5485. 19	3	18225. 86	$b^3F_3-w^3P_2$
5579. 00	10	17919. 40		5481. 01	7	18239. 76	$a^5F_4-w^5G_3$
5576. 48	8	17927. 49	$y^5G_5-f^5G_6$	5480. 50	45, <i>Z</i>	18241. 46	$a^5F_5-w^5G_3$
5575. 18	10	17931. 67	$b^5D_1-x^5D_3$	5476. 03		518256. 34	$b^3G_5-y^3F_4$
							$a^5F_3-x^3F_4$

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d, Double; *h*, hazy; *H*, very hazy; *l*, shaded longward; *s*, shaded shortward; *r*, reversed; *R*, strongly reversed; *w*, wide; *W*, very wide; *Z*, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
5469.44	8	18278.34		5365.99	20	18630.72	$c^3G_4-u^3H_5$
5468.17	10	18282.58	$b^3D_2-x^3D_3$	5362.99	25	18641.14	$b^3D_3-x^3F_3$
5464.39	10	18295.23	$a^5F_2-x^3F_3$	5361.87	10	18645.04	
5463.93	40, <i>Z</i>	18296.77	$b^3G_4-y^3F_3$	5361.30	40	18647.02	
5462.91	10	18300.19	$a^5F_1-x^3F_2$	5360.45	20	18649.98	
5462.41	15	18301.86		5356.51	8	18663.69	$a^5F_2-s^5F_1$
5457.82	25	18317.26	$b^3D_3-x^3D_3$	5356.30	2 <i>w</i>	18664.43	$b^3G_4-w^5D_3$
5449.27	10	18345.99		5355.72	2	18666.45	$a^5F_1-s^5F_1$
5447.92	5	18350.54		5351.67	10	18680.57	
5447.50	7	18351.96	$d^3F_4-v^3H_3$	5349.72	5	18687.38	
5446.79	10	18354.35		5348.30	200, <i>Z</i>	18692.34	$a^5D_3-z^5P_3$
5445.78	12	18357.75	$b^3G_4-y^3F_4$	5347.25	10	18696.02	
5443.91	12	18364.06		5345.77	200, <i>Z</i>	18701.19	$a^5D_3-z^5P_2$
5443.34	10	18365.98	$b^5D_4-x^5D_3$	5344.77	40	18704.69	$y^7P_3-f^7D_2$
5442.40	35, <i>Z</i>	18369.15	$a^3D_2-y^3G_3$	5344.04	10 <i>w</i>	18707.24	
			$b^3G_3-y^3F_2$				
5437.79	15	18384.73	$c^5D_4-s^5D_4$	5343.54	8	18709.00	$e^5S_2-v^3P_2$
5433.86	8	18398.03	$d^3F_2-v^3D_1$	5341.88	8 <i>w</i>	18714.81	
5432.35	25	18403.14	$b^3G_3-y^3F_3$	5340.46	40, <i>Z</i>	18719.79	$y^7P_2-f^7D_1$
5427.98	12	18417.95	$b^3D_1-w^5G_2$	5333.71	12	18743.47	$b^3P_2-y^3F_2$
5422.70	4	18435.89	$a^3D_3-y^3G_4$	5333.04	8	18745.83	
5421.97	5 <i>w</i>	18438.37	$b^3D_2-w^5G_2$	5329.76	50	18757.37	$z^7P_4-e^7D_3$
5420.62	7	18442.96		5329.17	100	18759.44	$z^7P_4-e^7D_4$
5417.98	10 <i>w</i>	18451.95		5328.36	200	18762.29	$z^7P_4-e^7D_5$
5414.24	3	18464.69		5324.35	8 <i>w</i>	18776.42	
5412.50	10	18470.63	$b^3G_4-y^3D_3$	5324.06	20	18777.44	$b^3P_2-y^3F_3$
5409.78	400, <i>Z</i>	18479.92	$a^5D_4-z^5P_3$	5318.79	40	18796.05	$y^7P_2-f^7D_2$
5408.78	8	18483.33		5312.88	50, <i>Z</i>	18816.96	$y^7P_2-f^7D_3$
5406.43	10	18491.37	$b^3D_2-w^5G_3$	5309.47	10	18829.05	$a^5F_2-w^3D_2$
5405.79	15, <i>Z</i>	18493.55		5308.70	4	18831.78	$b^1_{16}-y^3I_3$
5405.00	35, <i>Z</i>	18496.26	$b^3P_2-y^3P_1$	5307.26	30	18836.88	$a^5F_1-w^3D_3$
							$y^5P_3-f^5D_3$
5400.58	50, <i>Z</i>	18511.40	$b^3G_3-y^3D_2$	5304.19	40	18848.15	$y^7P_4-f^7D_4$
5398.92	5	18517.09	$b^3P_2-y^3P_2$	5300.74	75, <i>Z</i>	18860.06	$a^5D_2-z^5P_3$
5395.81	7, <i>Z</i>	18527.76		5298.29	100, <i>Z</i>	18868.78	$a^5D_2-z^5P_2$
5394.32	4	18532.88		5297.99	50, <i>Z</i>	18869.85	$z^7P_3-e^7D_2$
5393.05	7	18537.24		5297.37	75	18872.05	$z^7P_3-e^7D_3$
							$z^7P_3-e^7D_4$
5391.34	35	18543.12	$b^3P_1-y^3P_1$	5296.69	100, <i>Z</i>	18874.48	$a^5D_2-z^5P_1$
5390.38	40, <i>Z</i>	18546.43	$b^3P_1-y^3P_0$	5293.38	25	18886.28	$b^3P_2-y^3D_3$
5387.57	35, <i>Z</i>	18556.10	$b^3P_0-y^3P_1$	5292.88	20	18888.06	$b^3G_5-w^5F_3$
5386.96	50, <i>Z</i>	18558.20	$b^3P_1-y^3P_2$	5292.57	5, <i>Z</i>	18889.17	
5385.93	5	18561.85		5289.28	15	18900.92	$b^3P_1-y^3D_1$
5385.30	20 <i>s</i>	18563.92	$b^3D_3-w^5G_4$	5288.11	7	18905.10	$b^3P_1-w^5D_0$
5382.74	7	18573.68		5287.63	10 <i>w</i>	18906.82	$z^3F_3-e^3D_1$
5382.23	4	18574.51		5287.19	40	18908.39	$y^7P_2-f^7D_3$
5379.37	25	18584.38		5285.64	20, <i>Z</i>	18913.94	$b^3P_0-y^3D_1$
5377.73	35	18589.98		5285.37	7	18914.91	$b^1_{16}-y^3I_2$
							$d^3F_2-u^3F_2$
5376.15	20	18595.51		5280.28	35	18933.13	$b^3P_1-y^3D_3$
5375.85	10	18596.55		5278.25	40	18940.42	$z^3F_3-e^3D_2$
5375.11	8 <i>w</i>	18599.11		5276.07	75 <i>w</i>	18948.24	$z^7P_2-e^7D_1$
5374.68	7 <i>w</i>	18600.60	$d^3F_3-v^3D_2$	5275.71	65 <i>w</i>	18949.54	$z^7P_2-e^7D_2$
5373.71	30	18603.96	$b^3D_1-x^3F_2$	5275.21	70, <i>Z</i>	18951.33	$b^3P_2-y^3D_3$
							$z^7P_2-e^7D_3$
5371.48	50, <i>Z</i>	18611.68	$b^3D_3-x^3F_4$	5273.46	50, <i>Z</i>	18957.62	$z^7D_3-f^7D_4$
5370.36	40, <i>Z</i>	18615.56		5272.36	8	18961.58	
5368.53	35, <i>Z</i>	18621.91	$b^3D_2-x^3F_3$	5272.01	50, <i>Z</i>	18962.83	$y^7P_3-f^7D_4$
5367.81	10	18624.40	$b^3D_2-x^3F_2$	5268.92	20 <i>w</i>	18973.96	$y^5P_2-f^5D_2$
5367.22	8	18626.45	$b^5D_4-x^5D_4$	5267.10	10	18980.51	

TABLE I. Wavelengths and term combinations of Cr I—Continued

d, Double; *h*, hazy; *H*, very hazy; *l*, shaded longward; *s*, shaded shortward; *r*, reversed; *R*, strongly reversed; *w*, wide; *W*, very wide; *Z*, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
5266.08	10	18984.19	$b^3G_4-w^5F_3^{\circ}$	5196.57	12	19238.12	$\left\{ \begin{array}{l} b^3G_5-y^3G_4^{\circ} \\ a^5P_2-y^5F_3^{\circ} \end{array} \right.$
5265.73	75	18985.45	$a^5D_1-z^5P_2^{\circ}$	5196.45	100	19238.75	
5265.17	50	18987.47	$z^7D_4-f^7D_3$	5194.60	10	19245.42	$\left\{ \begin{array}{l} b^3G_5-y^3G_4^{\circ} \\ a^5P_3-y^5F_3^{\circ} \\ b^3G_3-z^3G_3^{\circ} \\ e^5S_2-u^3P_1^{\circ} \\ z^7D_3-f^7D_3 \end{array} \right.$
5264.52	20	18984.19		5193.497	35, Z	19249.50	
5264.16	100, Z	18991.11	$a^5D_1-z^5P_1^{\circ}$	5192.009	100, Z	19255.05	
5263.76	30	18992.56	$z^3F_4-e^3D_3$	5184.579	100	19282.62	$\left\{ \begin{array}{l} b^3G_4-z^3G_5^{\circ} \\ z^7D_3-f^7D_4 \\ a^5D_3-z^7D_3^{\circ} \end{array} \right.$
5261.76	50, Z	18999.77	$y^5P_3-f^5D_4$	5183.414	10	19286.95	
5257.08	10	19016.69	$b^3G_4-w^5F_4^{\circ}$	5177.84	10	19307.71	$\left\{ \begin{array}{l} b^3G_3-z^3G_4^{\circ} \\ a^5P_2-u^5D_1^{\circ} \\ a^5F_1-u^5D_0^{\circ} \end{array} \right.$
5255.12	100, Z	19023.78	$y^7P_4-f^7D_5$	5177.420	75, Z	19309.28	
5254.92	90, Z	19024.50	$z^7D_3-f^7D_2$	5168.61	8	19342.19	$\left\{ \begin{array}{l} z^7D_4-f^7D_5 \\ a^5D_4-z^7D_4^{\circ} \end{array} \right.$
5247.92	15	19049.88	$\left\{ \begin{array}{l} a^1H_5-t^3G_6^{\circ} \\ a^5P_1-y^5F_1^{\circ} \\ a^5D_0-z^5P_1^{\circ} \end{array} \right.$	5167.956	30	19344.63	
5247.58	125, Z	19051.11	$a^5D_0-z^5P_1^{\circ}$	5166.221	150	19351.13	$\left\{ \begin{array}{l} b^3G_4-y^3G_4^{\circ} \\ b^3G_4-y^3G_4^{\circ} \\ a^5P_1-y^5D_0^{\circ} \end{array} \right.$
5243.38	75, Z	19066.37	$z^7D_3-f^7D_1$	5160.77	5	19371.57	
5241.47	30	19073.32	$a^5P_1-x^5P_1^{\circ}$	5160.46	7	19372.73	$a^5D_2-z^7D_1^{\circ}$
5240.93	20	19075.29	$b^3P_2-w^5D_1^{\circ}$	5156.39	5	19388.03	
5240.47	50	19076.96	$\left\{ \begin{array}{l} z^3F_2-e^3D_2 \\ y^5P_3-f^5D_3 \\ a^5P_2-x^5P_1^{\circ} \\ b^3G_5-z^3G_4^{\circ} \end{array} \right.$	5151.826	12	19405.20	$a^5D_3-z^7D_3^{\circ}$
5238.97	60, Z	19082.42	$a^5P_2-x^5P_1^{\circ}$	5149.49	7	19414.01	$\left\{ \begin{array}{l} a^3F_4-y^5G_5^{\circ} \\ a^1G_4-z^1H_5^{\circ} \\ a^5P_1-y^5D_1^{\circ} \\ a^5P_2-y^5D_1^{\circ} \end{array} \right.$
5237.36	2	19088.29	$b^3G_5-z^3G_4^{\circ}$	5144.673	50, Z	19432.18	
5237.06	4	19089.39		5142.268	20	19441.27	
5236.63	10	19090.95	$b^3G_3-w^5F_3^{\circ}$	5139.72	45	19450.91	
5230.23	40	19114.31	$a^5P_1-y^5F_3^{\circ}$	5139.60	55, Z	19451.36	$b^3G_3-y^3G_3^{\circ}$
5228.10	50	19122.10	$b^3P_1-w^5D_1^{\circ}$	5138.86	10w	19454.16	$b^3P_2-w^5F_3^{\circ}$
5227.76	25	19123.34	$\left\{ \begin{array}{l} b^3G_3-w^5F_4^{\circ} \\ a^5P_2-y^5F_3^{\circ} \\ a^5P_1-x^5P_2^{\circ} \\ b^3P_2-w^5D_2^{\circ} \end{array} \right.$	5138.715	10	19454.71	$a^5D_2-z^7D_3^{\circ}$
5227.09	20	19125.79	$a^5P_1-x^5P_2^{\circ}$	5137.937	12	19457.66	$b^3G_3-y^3G_4^{\circ}$
5226.92	50	19126.42	$b^3P_2-w^5D_2^{\circ}$	5135.92	18	19465.30	$b^3P_2-w^5F_3^{\circ}$
5225.83	50	19130.40	$a^5P_3-y^5F_2^{\circ}$	5135.66	10	19466.29	$a^3G_3-y^5G_2^{\circ}$
5225.05	75, Z	19133.26	$z^7D_4-f^7D_4$	5129.57	8	19489.40	$a^5D_1-z^7D_1^{\circ}$
5224.97	75, Z	19133.55	$z^7D_5-f^7D_5$	5126.517	15	19501.00	$b^3P_1-w^5F_1^{\circ}$
5224.55	40	19135.09	$\left\{ \begin{array}{l} a^5P_2-x^5P_2^{\circ} \\ b^3P_0-w^5D_1^{\circ} \\ z^7D_3-f^7D_3 \end{array} \right.$	5126.168	10	19502.33	$b^3P_1-w^5F_1^{\circ}$
5224.10	30	19136.74	$z^7D_3-f^7D_3$	5123.470	35	19512.60	$a^5D_4-y^7P_3^{\circ}$
5223.82	5w	19137.76	$y^5P_1-f^5D_2$	5122.770	18	19515.27	$b^3P_0-w^5F_1^{\circ}$
5222.68	25	19141.94	$a^5P_3-x^5P_2^{\circ}$	5122.118	30	19517.75	$a^5D_4-z^7D_5^{\circ}$
5222.39	10	19143.01	$b^3G_4-z^3G_3^{\circ}$	5119.46	10	19527.89	
5221.90	5	19144.80		5115.34	5	19543.61	
5221.76	50, Z	19145.31	$b^3P_2-w^5D_3^{\circ}$	5113.140	45	19552.02	$a^5P_1-y^5D_2^{\circ}$
5220.92	40	19148.39	$z^7D_1-f^7D_1$	5112.498	25	19554.48	$a^5D_3-z^7D_4^{\circ}$
5220.12	4	19151.33		5110.76	40	19561.13	$a^3P_2-y^5D_2^{\circ}$
5216.59	10w, d?	19164.29	$\left\{ \begin{array}{l} a^5F_5-u^5D_4^{\circ} \\ a^1H_5-t^3G_5^{\circ} \\ z^5P_1-f^5S_2 \\ b^3G_5-z^3G_5^{\circ} \end{array} \right.$	5108.92	12	19568.17	$a^5P_3-y^5D_2^{\circ}$
5216.16	12w	19165.87	$z^5P_1-f^5S_2$	5108.34	12	19570.39	
5215.27	20	19169.14	$b^3G_5-z^3G_5^{\circ}$	5107.70	7	19572.84	$a^5D_2-z^7D_3^{\circ}$
5214.88	4w	19170.54	$z^3F_3-e^3D_3$	5105.40	7	19581.66	
5214.62	15w	19171.53	$z^5P_3-f^5S_2$	5093.41	7	19627.76	$a^5D_4-y^7P_4^{\circ}$
5214.14	30	19173.29	$b^3P_1-w^5D_2^{\circ}$	5091.898	30	19633.59	$a^5D_3-y^7P_2^{\circ}$
5213.66	5	19175.06	$b^3D_3-w^3D_2^{\circ}$	5086.21	8	19655.54	$b^3P_2-u^5P_3^{\circ}$
5212.24	18w	19180.28	$z^5P_3-f^5S_2$	5078.713	40	19684.56	
5208.415	400R, Z	19194.37	$a^5S_2-z^5P_3^{\circ}$	5072.928	60, Z	19707.00	$a^5S_2-z^7D_1^{\circ}$
5206.61	3	19201.02	$b^3G_4-z^3G_4^{\circ}$	5072.74	15	19707.73	$a^3G_5-y^5G_3^{\circ}$
5206.021	300R, Z	19203.20	$a^5S_2-z^5P_2^{\circ}$	5068.312	35	19724.95	$a^5D_3-y^7P_2^{\circ}$
5204.505	200R, Z	19208.79	$a^5S_2-z^5P_1^{\circ}$	5067.728	75, Z	19727.22	$a^5P_2-y^5D_3^{\circ}$
5200.202	50, Z	19224.68	$z^7D_1-f^7D_2$				

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d, Double; *h*, hazy; *H*, very hazy; *l*, shaded longward; *s*, shaded shortward; *r*, reversed; *R*, strongly reversed; *w*, wide; *W*, very wide; *Z*, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
5065. 925	50, <i>Z</i>	19734. 24	$a^5P_3-y^5D_3$	4962. 28	4 <i>w</i>	20146. 42	$z^5G_3-f^5G_3$
5063. 24	6	19744. 71	$b^3P_2-u^5P_2$	4956. 72	6	20169. 02	$b^3G_5-u^5F_3$
5059. 04	4	19761. 10		4954. 808	80, <i>Z</i>	20176. 80	$a^3F_4-z^3H_5$
5055. 13	3	19776. 39	$a^3D_2-x^3P_2$	4953. 725	22	20181. 22	$a^3F_4-z^3H_4$
5051. 902	40, <i>Z</i>	19789. 02	$a^5S_2-z^7D_2$	4952. 21	4 <i>w</i>	20187. 39	
5049. 42	5	19798. 75	$b^3P_2-u^5P_1$	4949. 579	12	20198. 12	$b^3D_1-w^3P_1$
5048. 75	25	19801. 38	$a^5D_2-y^7P_2$	4944. 57	22	20218. 58	$b^3D_2-w^3P_1$
5045. 04	6	19815. 94	$b^3H_4-x^3I_5$	4942. 49	200, <i>Z</i>	20227. 09	$a^5S_2-y^7P_3$
5043. 58	6	19821. 67	$a^3D_3-x^3P_3$	4938. 354	12	20244. 03	
5042. 85	3	19824. 55	$a^5F_1-w^3P_4$	4937. 51	5	20247. 49	$a^3G_5-x^5F_4$
5042. 53	4 <i>w</i>	19825. 80	$b^5D_2-w^5P_1$	4936. 34	150, <i>Z</i>	20252. 29	$a^3F_3-z^3H_4$
5039. 09	5 <i>w</i>	19839. 34	$b^5D_1-w^5P_1$	4934. 877	15	20258. 29	$b^3D_2-w^3P_2$
5038. 58	15	19841. 35	$b^3D_1-w^3F_2$	4932. 62	4	20267. 56	
5034. 65	7	19856. 83	$b^3H_5-x^3I_6$	4932. 55	8	20267. 85	$a^3G_5-x^5F_3$
5033. 37	5	19861. 89	$b^3D_2-w^3F_2$	4931. 12	15	20273. 73	$z^5I_8-e^5H_7$
5032. 54	12	19865. 16	$b^3H_6-x^3I_7$	4930. 515	10	20276. 22	
5031. 28	10	19870. 13	$b^3P_2-z^3S_1$	4930. 179	30, <i>Z</i>	20277. 60	$b^3D_3-w^3P_2$
5028. 06	15 <i>w</i>	19882. 86	$c^3D_3-v^3G_3$	4923. 280	20	20306. 01	
5027. 005	10 <i>w</i>	19887. 03	$b^5D_3-w^5P_2$	4922. 60	5	20308. 82	$b^5D_4-y^5G_3$
5025. 83	4	19891. 68	$b^5D_2-w^5P_2$	4922. 276	300, <i>Z</i>	20310. 14	$a^3G_5-z^3H_6$
5025. 545	10	19892. 81	$a^5D_2-y^7P_3$	4920. 95	50	20315. 62	$a^3G_5-z^3H_3$
5023. 63	5 <i>w</i>	19900. 39	$b^5D_1-w^5P_2$	4919. 465	20	20321. 75	$z^5I_7-e^5H_6$
5021. 910	25	19907. 21	$a^5S_2-z^7D_3$	4914. 27	3	20343. 23	$c^3G_4-t^3G_4$
5020. 80	3	19911. 61		4909. 878	6	20361. 43	$a^5P_1-x^5D_6$
5020. 608	15	19912. 37	$b^3P_1-z^3S_1$	4908. 56	4	20366. 90	$b^5D_2-v^5P_1$
5019. 200	20	19917. 96	$a^5D_1-y^7P_2$	4905. 37	7	20380. 15	$b^5D_1-v^5P_1$
5018. 17	18, <i>Z</i>	19922. 04	$a^5F_3-w^3P_2$	4905. 050	20	20381. 48	$c^3G_3-t^3G_4$
5017. 33	4	19925. 38	$b^3D_2-w^3F_3$	4903. 25	70, <i>Z</i>	20388. 96	$a^5G_2-y^5F_1$
5013. 314	100, <i>Z</i>	19941. 34	$b^3P_0-z^3S_1$	4902. 06	10 <i>w</i>	20393. 91	$c^3D_2-q^5F_3$
5009. 78	10 <i>w</i>	19955. 40	$b^3D_3-w^3F_3$	4898. 456	10	20408. 91	$c^3D_3-q^5F_3$
5008. 75	5 <i>w</i>	19959. 51	$a^5P_3-y^5D_3$	4897. 515	5	20412. 84	$z^5I_6-e^5H_5$
5007. 17	4 <i>w</i>	19965. 81	$b^5D_3-w^5P_3$	4897. 515	5	20412. 84	$a^5G_2-x^5P_1$
5005. 08	7	19974. 17	$b^3H_6-u^3H_6$	4896. 47	4	20417. 19	$b^3G_3-u^5F_4$
5004. 35	35 <i>w</i>	19976. 94	$b^5D_4-w^5P_3$	4895. 44	3 <i>w</i>	20421. 49	$a^3G_3-x^5F_3$
5000. 95	4	19990. 64	$b^3H_5-u^3H_5$	4895. 00	3	20423. 32	
4998. 57	4	20000. 16	$b^5D_2-y^5G_2$	4894. 37	25	20425. 95	$z^5I_7-e^5H_7$
4991. 08	4	20030. 17		4892. 731	10	20432. 79	
4988. 10	3	20042. 14		4891. 973	18	20435. 96	$a^5P_1-x^5D_1$
4985. 951	5, <i>Z</i>	20050. 78	$b^3D_3-w^3F_4$	4891. 59	1	20437. 56	$a^3F_4-y^5H_4$
4983. 45	1	20060. 84	$b^3H_5-y^1H_5$	4890. 22	22	20443. 28	$z^7F_3-f^7S_3$
4982. 11	1	20066. 24		4889. 71	20	20445. 42	$z^5I_6-e^5H_6$
4981. 607	15 <i>w</i>	20068. 26	$z^5G_6-f^5G_6$	4889. 20	3 <i>w</i>	20447. 55	$z^5I_5-e^5H_4$
4977. 54	10 <i>w</i>	20084. 66	$z^5G_5-f^5G_5$	4888. 53	40	20450. 35	$a^5G_3-y^5F_2$
4974. 00	6	20098. 95	$z^5G_6-f^5G_5$	4887. 71	22	20453. 78	$a^5G_2-y^5F_2$
4973. 30	4 <i>w</i>	20101. 78	$z^5G_5-f^5G_5$	4887. 013	150, <i>Z</i>	20456. 70	$a^3G_4-z^3H_5$
4972. 22	6 <i>w</i>	20106. 15	$c^3G_5-t^3F_3$	4885. 97	50	20461. 07	$a^3G_4-z^3H_4$
4971. 36	7	20109. 63	$c^3F_3-u^3H_4$	4885. 77	75, <i>Z</i>	20461. 90	$a^5G_3-x^5P_2$
4970. 97	3 <i>w</i>	20111. 20	$z^5G_4-f^5G_4$	4884. 95	25	20465. 34	$a^5G_2-x^5P_2$
4969. 13	7 <i>w</i>	20118. 65		4884. 11	4	20468. 86	$z^5I_4-e^5H_3$
4968. 80	5 <i>w</i>	20119. 99		4882. 90	3 <i>w</i>	20473. 93	$c^3G_5-t^3G_5$
4967. 97	5	20123. 34	$z^5G_3-f^5G_3$	4880. 04	22	20485. 93	$a^3F_4-y^5H_3$
4966. 80	25	20128. 09	$b^3D_1-w^3P_6$	4878. 05	2	20494. 29	$z^5I_5-e^5H_5$
4966. 05	4 <i>w</i>	20131. 13	$z^5G_2-f^5G_2$	4877. 293	7	20497. 47	
4965. 82	3 <i>w</i>	20132. 06	$z^5G_3-f^5G_4$	4875. 57	20	20504. 71	$z^5I_4-e^5H_4$
4964. 92	100, <i>Z</i>	20135. 71	$a^5S_2-y^7P_2$	4874. 653	20	20508. 56	$a^3F_3-y^5H_4$
				4872. 010	18	20519. 69	$a^5G_4-x^5P_3$

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d, Double; h, hazy; H, very hazy; l, shaded longward; s, shaded shortward; r, reversed; R, strongly reversed; w, wide; W, very wide; Z, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
4870. 79	100, Z	20524. 84	$a^3G_3-z^3H_4$	4816. 39	10w	20756. 65	$z^5D_4-e^5F_4$
4869. 10	7w	20531. 96		4816. 13	25, Z	20757. 78	$d^3F_4-t^3F_3$
4868. 29	8	20535. 38	$a^3H_5-y^5G_5$	4814. 25	35, Z	20765. 88	$a^3G_4-y^5H_5$
4866. 60	10	20542. 51		4813. 96	5w	20767. 13	
4865. 71	4w	20546. 26	$a^3H_6-y^5G_6$	4810. 71	35, Z	20781. 16	$a^3G_3-y^5H_4$
4865. 18	3w	20548. 50		4810. 58	3w, Z	20781. 72	
4863. 84	7	20554. 16	$z^7F_2-f^7S_3$	4810. 23	7	20783. 24	$d^3F_3-t^3F_2$
4861. 84	75, Z	20562. 62	$b^1I_6-z^3K_6$	4810. 01	10w	20784. 19	$a^3D_2-w^5G_2$
4861. 19	35	20565. 37	$a^3G_4-y^5F_5$	4809. 30	10	20787. 26	$a^3P_3-x^3D_2$
4860. 37	7	20568. 83	$a^5G_3-y^5F_3$	4807. 14	3w	20796. 60	$a^3D_1-w^5G_2$
4859. 80	7	20571. 25	$b^5D_3-v^5P_2$	4806. 25	25	20800. 45	$a^5P_2-x^5D_3$
4858. 83	4	20575. 35	$b^5D_2-v^5P_2$	4805. 25	15w	20804. 77	$z^5D_3-e^5F_3$
4857. 31	18	20581. 79	$a^5P_1-x^5D_2$	4804. 64	15	20807. 42	$a^5P_3-x^5D_3$
4855. 150	15	20590. 95	$a^5P_2-x^5D_3$	4804. 23	4	20809. 19	$b^5D_3-v^5P_3$
4851. 47	25	20606. 57	$b^3G_4-y^3H_5$	4803. 22	7w	20813. 57	$b^5D_2-v^5P_3$
4850. 96	7w	20608. 73	$d^3F_4-p^5F_3$	4803. 08	6	20814. 17	$b^3F_4-v^3G_4$
4850. 224	8	20611. 86	$b^3P_0-v^5D_1$	4801. 02	75, Z	20823. 10	$a^3F_4-y^3F_3$
4847. 197	18	20624. 74	$a^3G_4-y^5H_5$	4799. 19	8	20831. 04	$b^5D_4-v^5P_3$
4846. 44	18	20627. 96	$a^3F_2-y^5H_3$	4798. 53	10	20833. 91	
4846. 29	40	20628. 60	$a^3F_2-p^5F_3$	4797. 68	15	20837. 60	$a^3D_2-w^5G_3$
4845. 23	3	20633. 11	$a^3F_4-y^3P_2$	4797. 06	8	20840. 30	
4843. 073	6	20642. 30	$z^3P_2-g^5D_2$	4796. 84	12w	20841. 25	$z^5D_2-e^5F_2$
4841. 91	3	20647. 26	$z^3P_2-g^5D_2$	4796. 145	40w	20844. 27	$z^5D_4-e^5F_5$
4841. 734	12	20648. 01	$b^3G_5-y^3H_6$	4794. 42	8	20851. 77	
4841. 14	4	20650. 54	$a^3D_2-x^3D_3$	4792. 489	75, Z	20860. 18	$a^3F_3-y^3F_2$
4840. 711	8	20652. 37		4791. 35	2w	20865. 13	
4840. 37	10	20653. 83	$b^1I_6-z^3K_7$	4790. 91	5	20867. 05	$b^3F_3-v^3G_4$
4839. 57	7	20657. 24	$a^5F_1-t^5D_6$	4790. 32	20	20869. 62	$a^5G_5-y^5F_5$
4838. 88	6w	20660. 19	$a^5F_3-t^5D_2$	4789. 324	75	20873. 96	$a^5G_4-y^5F_5$
4838. 418	15	20662. 16	$a^5F_1-t^5D_1$	4787. 736	5	20880. 88	$a^3F_4-y^3F_4$
4837. 693	10	20665. 26		4787. 302	3	20882. 77	$a^3D_3-w^5G_3$
4837. 19	8	20667. 41	$a^5F_4-t^5D_3$	4786. 71	3w	20885. 36	
4836. 85	40	20668. 86	$a^5F_2-t^5D_3$	4783. 06	10w	20901. 30	$z^5D_3-e^5F_4$
4836. 36	10	20670. 95	$d^3F_4-p^5F_4$	4782. 16	1	20905. 23	
4835. 671	10	20673. 90	$a^5F_1-t^5D_2$	4781. 65	2	20907. 46	$z^3P_1-e^3D_1$
4832. 75	4	20686. 35	$z^5D_4-e^5F_3$	4779. 87	3	20915. 25	$b^5D_1-x^5F_1$
4831. 63	15	20691. 19	$d^3F_2-t^3F_2$	4778. 514	2	20921. 18	$z^3P_1-g^5D_2$
4829. 35	100w	20700. 96		4777. 73	4	20924. 61	$b^5D_3-x^5F_2$
4828. 65	8	20703. 96	$a^5F_3-t^5D_3$	4777. 57	7	20925. 32	$b^5D_0-x^5F_1$
4828. 21	3w	20705. 84	$a^3G_5-y^5H_6$	4775. 99	1	20932. 23	$b^5D_2-x^5F_2$
4827. 44	2w	20709. 15	$a^3F_5-t^5D_4$	4775. 54	10w	20934. 21	$b^3G_4-1_3$
4826. 84	5w	20711. 72	$a^5F_5-t^5D_4$	4775. 12	10	20936. 05	$c^3G_5-s^3F_4$
4825. 50	10	20717. 47	$a^5F_3-t^5D_4$	4774. 55	8	20938. 55	$z^5D_3-e^5F_3$
4825. 40	7	20717. 90	$a^5F_5-t^5D_4$	4774. 37	1	20948. 10	$a^3D_3-w^5G_4$
4825. 02	2	20719. 53	$a^3D_3-x^3D_3$	4772. 37	10	20951. 53	$b^5D_1-x^5F_2$
4823. 90	12, Z	20724. 34	$a^5F_4-t^5D_4$	4771. 59	10	20955. 54	$b^5D_3-x^5F_3$
4822. 06	5	20732. 25	$a^5G_3-y^5F_4$	4770. 34	4	20957. 03	$c^3G_3-s^3F_3$
4819. 30	4	20744. 12		4769. 99	4w	20958. 56	$c^3G_4-s^3F_3$
4818. 23	5w	20748. 73	$z^5D_3-e^5F_2$	4769. 79	4w	20959. 44	$z^5D_0-e^5F_1$
4817. 55	2	20751. 66	$a^3G_4-y^5H_4$	4769. 67	2w	20959. 97	$z^5D_1-e^5F_2$
			$d^3F_2-t^3F_3$	4768. 56	4	20964. 85	$b^3F_4-v^3G_5$
				4767. 86	30	20967. 93	$b^3G_3-x^3G_4$
			$a^3F_3-t^3F_3$	4767. 26	22	20970. 57	$a^3D_2-x^3F_3$
			$a^3G_3-y^5H_3$	4766. 63	35, Z	20973. 34	$a^3D_2-x^3F_3$
			$b^3F_3-v^3G_3$	4764. 65	20	20982. 05	$a^3D_1-x^3F_3$
			$b^3P_2-u^5F_3$				$b^5D_4-x^5F_3$
							$b^5D_3-x^5F_4$

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d, Double; h, hazy; H, very hazy; l, shaded longward; s, shaded shortward; r, reversed; R, strongly reversed; w, wide; W, very wide; Z, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
4764. 28	50	20983. 68	$a^3D_3-x^3F_2$	4709. 47	2	21227. 89	
4763. 509	3	20987. 08	$b^3P_2-t^5F_1$	4708. 02	60, Z	21234. 43	$z^7F_5-f^7D_4$
4761. 73	5	20994. 92	$b^3P_2-t^5F_3$	4707. 73	15	21235. 74	$b^3P_2-x^3P_2$
4761. 241	10	20997. 07	$a^3F_4-y^3D_3$	4706. 085	25	21243. 16	$a^3F_3-w^5D_3$
4759. 90	10	21002. 99	$a^3F_3-y^3D_3$	4705. 67	2	21245. 03	$a^3F_4-w^5D_4$
4759. 74	8	21003. 70	$b^5D_4-x^5F_2$	4705. 36	4	21246. 43	
4757. 58	18	21013. 23	$a^3D_3-x^3F_3$	4703. 28	1	21255. 83	
4757. 31	15	21014. 42	$z^3P_3-e^3D_3$	4702. 74	2	21258. 27	$a^5G_5-y^5D_4$
4756. 98	1	21015. 88	$a^3D_3-x^3F_3$	4701. 92	5	21261. 98	$a^3F_3-w^5D_3$
4756. 09	100, Z	21019. 81	$a^3G_3-y^3F_4$	4701. 55	5	21263. 65	$b^5D_3-y^5H_3$
4755. 136	18	21024. 03	$b^5D_4-x^5F_2$	4700. 595	40, Z	21267. 97	$a^5P_1-z^5S_3$
4754. 73	20	21025. 83	$a^3F_2-y^3F_2$	4699. 585	25	21272. 54	$c^3D_3-v^3F_4$
4754. 04	25, Mn?	21028. 88	$b^3P_2-t^5F_3$	4698. 944	20	21275. 44	$a^3G_4-y^3D_3$
4752. 89	10	21033. 97	$b^3P_1-t^5F_1$	4698. 61	50, Z	21276. 95	$a^3G_4-y^3D_3$
4752. 066	50, Z	21037. 62	$b^1I_6-z^1I_8$	4698. 46	60, Z	21277. 63	$a^5P_2-z^5S_3$
4751. 04	5w	21042. 16	$b^3P_1-t^5F_2$	4698. 46	60, Z	21277. 63	$z^7F_4-f^7D_3$
4749. 96	1w	21046. 94	$z^3P_0-e^3D_1$	4697. 379	15	21282. 53	$b^3P_1-x^3P_2$
4749. 27	1w	21050. 00	$b^3P_0-t^5F_1$	4697. 038	40, Z	21284. 08	$a^5P_3-z^5S_3$
4748. 93	1	21051. 51	$b^3P_1-x^3P_0$	4695. 142	30	21292. 67	$a^3H_5-z^3H_6$
4748. 93	1	21051. 51	$a^5G_4-y^5D_3$	4694. 733	3	21294. 53	$c^3F_2-p^5F_2$
4747. 63	3	21057. 27	$c^3D_2-v^3F_2$	4693. 938	45, Z	21298. 13	$a^3H_5-z^3H_5$
4747. 03	4	21059. 93	$a^3F_2-y^3F_3$	4693. 582	3	21299. 75	
4746. 63	1w	21061. 71		4692. 967	10	21302. 54	$a^3H_5-z^3H_4$
4745. 31	30, Z	21067. 56	$a^5P_3-x^5D_4$	4691. 62	1	21308. 65	
4745. 20	12	21068. 05	$a^3F_3-y^3D_3$	4690. 15	6w	21315. 34	$z^5D_3-g^5D_3$
4743. 118	12w	21077. 30	$z^3P_1-e^3D_2$	4689. 382	65, Z	21318. 83	$z^7F_3-f^7D_2$
4742. 00	2w	21082. 27	$b^3G_4-x^3G_5$	4686. 20	15	21333. 30	
4741. 092	12	21086. 31	$c^3D_1-v^3F_2$	4684. 602	12	21340. 58	$a^3G_3-y^3D_3$
4737. 33	75, Z	21103. 06	$a^3G_4-y^3F_3$	4680. 864	35, Z	21357. 62	$a^3F_2-w^5D_1$
4736. 60	2	21106. 30	$a^3H_6-x^5F_5$	4680. 492	50	21359. 32	$z^7F_3-f^7D_1$
4736. 144	5	21108. 34	$b^3P_2-x^3P_1$	4677. 62	4w	21372. 52	$a^3H_4-x^5F_3$
4734. 596	4	21115. 24	$b^3H_4-u^3G_3$	4676. 85	2w	21375. 95	
4734. 30	3	21116. 56		4676. 30	8w	21378. 46	$c^3F_2-p^5F_3$
4732. 55	2w	21124. 37	$d^3F_4-t^3G_5$	4675. 80	2w	21380. 75	$b^5D_4-y^5H_3$
4731. 19	4w	21130. 44	$b^1I_6-w^3H_6$	4675. 03	4w	21384. 27	$a^3G_5-w^5D_4$
4730. 69	50, Z	21132. 67	$a^3D_2-t^5P_3$	4673. 16	10w	21392. 83	$z^5D_4-g^5D_4$
4729. 84	8	21136. 47	$a^3G_3-y^3F_2$	4672. 77	5w	21394. 61	$z^5D_1-g^5D_2$
4729. 708	35, Z	21137. 06		4670. 08	1	21406. 94	$c^3F_3-t^3F_2$
4727. 48	4l, d?	21147. 03	$a^3F_2-y^3D_1$	4669. 67	10	21408. 81	$a^3F_2-w^5D_2$
4727. 13	40, Z	21148. 59	$z^5D_3-g^5D_2$	4669. 34	50, Z	21410. 33	$z^7F_5-f^7D_5$
4725. 94	7	21153. 91	$a^3H_6-z^3H_5$	4667. 894	2	21416. 96	$c^3D_2-u^3F_3$
4725. 66	5	21155. 16	$b^3H_6-u^3G_5$	4667. 71	1	21417. 81	$c^3D_3-u^3F_3$
4724. 40	35, Z	21160. 81	$b^3P_1-x^3P_1$	4667. 170	30	21420. 28	$a^3H_4-z^3H_5$
4723. 88	1	21163. 14	$a^3G_4-y^3F_4$	4666. 508	55, Z	21423. 32	$b^5D_2-y^3P_1$
4723. 18	8	21166. 27	$b^3H_4-u^3G_2$	4666. 201	25, Z	21424. 73	$a^3D_2-w^3D_1$
4723. 06	15	21166. 81	$c^3D_2-v^3F_3$	4665. 899	35	21426. 12	$c^3F_3-p^5F_3$
4722. 73	10	21168. 29	$a^3G_3-y^3F_3$	4665. 15	5w	21429. 56	$z^7F_4-f^7D_4$
4722. 65	8	21168. 65	$a^3F_2-y^3D_2$	4664. 80	60	21431. 16	$a^3H_4-z^3H_5$
4722. 14	3w	21170. 93	$b^3P_0-x^3P_1$	4663. 833	55	21435. 61	$z^7F_2-f^7D_2$
4721. 14	8w	21175. 42	$a^3F_3-y^3D_3$	4663. 327	40	21437. 94	$z^7F_1-f^7D_1$
4718. 79	7w	21185. 96	$z^5D_4-g^5D_3$	4662. 42	2	21442. 10	$a^3D_1-w^3D_1$
4718. 43	75, Z	21187. 58	$a^3D_3-t^5P_3$				$b^5D_3-y^3P_2$
4717. 674	10	21190. 98	$c^3D_3-u^3F_4$				$z^7F_3-f^7D_3$
4713. 99	10	21207. 54	$b^1I_6-z^1K_7$				$b^5D_2-y^3P_2$
4713. 68	3	21208. 93	$b^1G_4-g^3F_4$				$z^7F_2-f^7D_2$
4710. 24	6	21224. 42	$a^3G_3-y^3F_4$				$z^7F_1-f^7D_1$
							$b^5D_0-y^3P_1$

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d, Double; h, hazy; H, very hazy; l, shaded longward; s, shaded shortward; r, reversed; R, strongly reversed; w, wide; W, very wide; Z, Zeeman pattern in table 2

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
4661. 88	2w	21444. 59	$z^5D_3-g^5D_3$	4619. 537	40, Z	21641. 15	$a^3P_2-y^3P_2$
4661. 20	2	21447. 72	$b^5D_1-y^3P_2$	4617. 560	2	21650. 41	$d^3F_3-s^3F_3$
4656. 822	10	21467. 88	$a^1H_5-x^1H_5$	4617. 37	2	21651. 30	$a^3H_5-y^5H_6$
4656. 183	30	21470. 83	$a^3G_4-w^5D_3$	4616. 120	75, Z	21657. 17	$a^5D_2-y^5P_2$
4654. 76	35	21477. 39	$z^7F_6-f^7D_1$	4614. 741	10	21663. 64	$x^5P_2-f^5G_2$ $b^3P_1-x^3D_1$
4654. 09	10w	21480. 48		4614. 510	12	21664. 72	$a^3I_5-2^3I_4$
4652. 76	1	21486. 62		4614. 148	12	21666. 42	$b^3G_4-w^3G_3$
4652. 155	100, Z	21489. 42	$a^5D_3-y^5P_2$	4613. 36	60, Z	21670. 12	$a^3G_5-w^5F_5$
4651. 285	75, Z	21493. 44	$a^5D_2-y^5P_1$	4612. 62	1w	21673. 60	$a^5D_0-y^5P_1$
4649. 446	45	21501. 94	$a^5G_4-z^5H_3$ $a^3D_2-w^3D_2$	4612. 20	1w	21675. 57	
4648. 856	35	21504. 67	$a^5G_3-z^5H_3$ $a^3D_1-w^3D_2$	4611. 964	15, Z	21676. 68	$b^3P_0-x^3D_1$
4648. 33	2	21507. 10	$a^3H_6-y^5H_6$	4611. 056	4	21680. 95	$a^3H_4-y^5H_4$
4648. 116	25	21508. 09	$a^5G_2-z^5H_3$	4609. 896	8	21686. 41	$b^3H_4-t^3G_3$
4646. 803	20	21514. 17	$z^7F_7-f^7D_2$	4609. 64	2w	21687. 61	
4646. 499	15	21515. 58	$a^3G_3-w^5D_2$	4607. 50	1	21697. 68	$b^3F_4-v^3H_4$
4646. 151	100	21517. 19	$a^5D_4-y^5P_3$	4607. 25	4	21698. 86	
4643. 915	7	21527. 55	$a^3F_4-w^5F_5$	4606. 92	1w	21700. 42	$b^5D_2-y^3F_3$
4642. 413	3	21534. 51	$a^3G_3-w^5D_3$	4606. 364	15	21703. 04	$b^3H_5-t^3G_4$
4641. 96	10	21536. 61	$a^3I_5-y^3I_5$	4605. 79	8w	21705. 74	$z^5P_1-f^5D_1$
4641. 69	4	21537. 87	$c^3D_2-u^3F_2$	4604. 59	5w	21711. 40	$z^5P_2-f^5D_1$
4641. 49	3	21538. 79	$z^5D_3-g^5D_4$ $c^3D_3-u^3F_2$	4604. 10	2	21713. 71	$b^3G_3-x^3D_3$
4640. 82	1	21541. 90	$c^3G_5-t^3H_6$	4603. 84	2	21714. 94	$d^3F_4-r^5D_4$
4640. 68	1	21542. 55	$a^3I_6-y^3I_5$	4603. 44	2	21716. 82	$b^3H_4-t^3G_4$
4640. 553	4	21543. 15	$a^3F_4-w^5F_5$	4602. 867	7	21719. 53	$c^5D_3-t^3F_2$
4639. 695	25	21547. 13	$a^3D_3-w^3D_2$	4602. 510	7	21721. 21	$b^3G_5-w^3G_5$
4639. 521	35, Z	21547. 94	$z^7F_5-f^7D_3$	4601. 14	10	21727. 68	$a^3F_4-z^3G_4$
4637. 768	40	21556. 08	$a^5G_5-z^5H_4$ $a^5G_4-z^5H_4$	4601. 019	50	21728. 25	$a^5G_5-z^5H_3$
4637. 174	40	21558. 84	$a^5G_3-z^5H_4$ $a^3H_5-y^5H_4$	4600. 745	75r, Z	21729. 54	$a^5D_3-y^5P_3$
4635. 426	6	21566. 97	$c^3D_1-u^3F_2$	4600. 109	40, Z	21732. 55	$a^5G_6-z^5H_3$
4634. 585	5	21570. 89	$a^3F_3-w^5F_2$	4599. 69	1w	21734. 53	
4633. 274	30	21576. 99	$z^7F_3-f^7D_4$	4599. 25	1	21736. 59	$a^3F_2-w^5F_2$
4632. 165	35	21582. 16	$a^3D_2-w^3D_3$ $a^3F_3-w^5F_3$	4599. 003	8	21737. 77	$a^3F_2-w^5F_1$
4630. 439	5	21590. 20	$d^3F_4-s^3F_4$	4598. 439	20	21740. 44	$a^3F_3-z^3G_3$
4628. 48	10	21599. 33	$z^7F_4-f^7D_5$	4598. 921	3	21747. 62	$d^3F_3-r^5D_4$
4628. 24	1	21600. 46		4596. 388	6	21747. 62	$a^3F_2-w^5F_3$
4627. 652	8	21603. 20	$x^5P_3-f^5G_2$	4595. 599	45, Z	21750. 14	$b^3F_3-v^3H_4$
4627. 351	7	21604. 61	$d^3F_2-s^3F_2$	4595. 04	5w	21753. 88	$b^3G_4-w^3G_4$
4626. 80	8	21607. 18	$a^3H_5-y^5H_5$ $b^3G_4-x^3D_3$	4594. 408	8	21756. 52	$x^5P_1-f^5D_2$
4626. 181	65, Z	21610. 08	$a^5D_1-y^5P_1$	4593. 825	8w	21759. 51	$z^5P_2-f^5D_2$
4625. 913	20, Z	21611. 32	$a^3I_6-y^3I_6$	4592. 546	15	21762. 28	$b^3H_6-t^3G_3$
4625. 65	1	21612. 55	$a^3I_7-y^3I_6$	4591. 405	60, Z	21773. 74	$b^3G_3-w^3G_3$
4625. 295	3	21614. 22	$a^3F_3-w^5F_4$	4590. 689	8	21777. 15	$a^5D_1-y^5P_2$
4624. 564	15, Z	21617. 62		4590. 48	4w	21778. 13	$b^5D_2-y^3D_1$
4622. 759	22	21626. 06	$a^3P_2-y^3P_1$	4589. 03	5	21785. 01	$z^3F_4-e^3G_5$
4622. 466	35, Z	21627. 44	$a^3D_3-w^3D_3$	4587. 863	8	21790. 56	$b^5D_1-v^3D_1$
4621. 924	45	21629. 97	$a^5G_5-z^5H_5$ $a^5G_4-z^5H_5$	4586. 990	8	21794. 71	$b^5D_1-w^5D_0$
4621. 47	2	21632. 10	$a^3I_7-y^3I_7$	4586. 146	20, Z	21798. 71	$a^3F_3-z^3G_4$
4621. 112	4	21633. 77	$a^3H_4-y^5H_3$	4585. 713	3	21800. 77	$b^3G_5-w^5G_5$
4621. 017	4	21634. 22		4585. 096	18	21803. 71	$b^3G_5-x^3F_4$
4620. 40	2	21637. 11	$a^5G_6-z^5H_5$ $b^3G_5-w^3G_4$	4584. 938	15	21804. 46	$b^3P_2-x^3D_2$
				4584. 76	12	21805. 31	$b^5D_3-y^3D_2$
				4584. 100	20	21808. 44	$a^3F_4-z^3G_5$
				4583. 898	15	21809. 41	$b^5D_2-y^3D_2$
				4583. 33	1	21812. 11	
				4582. 40	6	21816. 53	$b^3F_4-v^3H_3$

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d, Double; *h*, hazy; *H*, very hazy; *l*, shaded longward; *s*, shaded shortward; *r*, reversed; *R*, strongly reversed; *w*, wide; *W*, very wide; *Z*, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
4582. 04	2 <i>w</i>	21818. 25	$\left\{ \begin{array}{l} b^3G_5-w^5G_6 \\ b^3H_5-t^3G_5 \end{array} \right.$	4541. 506 4541. 066	25 30	22012. 98 22015. 11	$\left\{ \begin{array}{l} a^3G_3-z^3G_3 \\ a^5G_4-z^5G_3 \end{array} \right.$
4581. 03	10	21823. 06	$\left\{ \begin{array}{l} a^3G_4-w^5F_4 \\ b^5D_1-y^3D_3 \end{array} \right.$	4540. 84	10	22016. 21	$\left\{ \begin{array}{l} a^3P_2-y^3D_3 \\ a^3G_5-y^3G_4 \end{array} \right.$
4580. 045	75, <i>Z</i>	21827. 75	$a^5S_2-y^3P_1$	4540. 715	50	22016. 81	$a^3G_5-y^3G_5$
4579. 60	2	21829. 87	$a^3I_5-x^3H_5$	4540. 50	50	22017. 85	$a^5G_3-z^5G_3$
4578. 326	12	21835. 95	$a^3J_6-x^3H_5$				
4576. 772	6	21843. 36	$a^3G_3-w^5F_3$	4539. 787	30	22021. 32	$\left\{ \begin{array}{l} b^5D_0-w^5D_1 \\ a^5G_2-z^5G_3 \end{array} \right.$
4575. 112	25, <i>Z</i>	21851. 28	$b^3P_1-x^3D_3$	4538. 76	3	22026. 30	
4574. 456	6	21854. 42	$a^3G_3-w^5F_3$	4537. 97	4	22030. 13	
4574. 210	5 <i>w</i>	21855. 64		4536. 542	4	22037. 06	$z^5P_3-f^5D_4$
4573. 94	3	21856. 88	$b^3G_3-w^3G_4$	4536. 06	3 <i>w</i>	22039. 41	
4573. 38	1	21859. 56	$a^3I_5-x^3H_5$				
4572. 17	7 <i>w</i>	21865. 34	$\left\{ \begin{array}{l} a^3I_6-x^3H_6 \\ z^5P_2-f^5D_3 \end{array} \right.$	4535. 714	60	22041. 09	$\left\{ \begin{array}{l} b^3F_3-v^3F_3 \\ a^5G_5-z^5G_4 \end{array} \right.$
4571. 83	12	21866. 97	$\left\{ \begin{array}{l} a^3I_7-x^3H_4 \\ a^3G_5-z^3G_4 \end{array} \right.$	4535. 14	35	22043. 88	$a^5G_3-z^5G_4$
4571. 673	40	21867. 72	$a^5G_6-z^5H_7$	4534. 80	4	22045. 53	$b^5D_3-w^5D_3$
4571. 103	25	21870. 45	$b^5D_3-y^3D_3$	4533. 24	2	22053. 12	$b^3G_3-x^3F_3$
4570. 988	20	21871. 00	$a^3F_4-y^3G_3$	4532. 75	10	22055. 50	$b^3G_3-x^3F_2$
4570. 535	6	21873. 17	$a^3P_2-y^3F_3$	4532. 71	2	22055. 69	$c^5D_3-t^3G_3$
4570. 34	6	21874. 10	$\left\{ \begin{array}{l} b^5D_2-y^3D_3 \\ z^5P_3-f^5D_3 \end{array} \right.$	4531. 828	2	22059. 99	$b^3F_3-u^3F_4$
4570. 23	1 <i>w</i>	21874. 63	$b^5D_2-y^3D_3$	4531. 62	1	22061. 00	
4569. 63	30, <i>Z</i>	21877. 50	$a^3F_4-y^3G_4$	4531. 44	1	22061. 88	$b^3F_2-v^3F_3$
4569. 53	20	21877. 98	$a^3F_4-y^3G_3$	4531. 236	5	22062. 87	$b^5D_1-w^5D_2$
4567. 018	2	21890. 01	$a^1H_5-v^3I_5$	4530. 93	4	22064. 36	$b^5D_3-w^5D_3$
4566. 598	7	21892. 02	$b^5D_4-y^3D_3$	4530. 72	100	22065. 38	$\left\{ \begin{array}{l} a^5G_5-z^5G_5 \\ a^5G_4-z^5G_3 \end{array} \right.$
4565. 512	50, <i>Z</i>	21897. 23	$a^5D_2-y^3P_3$	4530. 48	4	22066. 55	$a^3H_4-y^3F_3$
4564. 165	40, <i>Z</i>	21903. 69	$a^1H_5-x^1I_6$	4529. 847	25	22069. 63	$\left\{ \begin{array}{l} b^5D_2-w^5D_3 \\ a^5G_4-z^5G_3 \end{array} \right.$
4563. 661	25	21906. 11	$a^3F_2-z^3G_3$	4529. 50	3	22071. 32	$a^3G_3-z^3G_4$
4563. 426	7	21907. 24	$a^3P_2-y^3F_3$				
4563. 244	15	21908. 11	$a^3I_5-x^3H_4$	4527. 452	30, <i>Z</i>	22081. 31	$a^3P_2-y^3D_3$
4561. 51	10 <i>w</i>	21916. 44	$\left\{ \begin{array}{l} b^3G_4-x^3F_4 \\ b^3F_2-v^3D_1 \end{array} \right.$	4527. 335	40	22081. 88	$a^5G_5-z^5G_6$
4561. 20	2	21917. 93	$a^5D_3-x^5D_2$	4526. 77	4 <i>w</i>	22084. 63	
4560. 51	1	21921. 25	$a^5G_2-x^5D_2$	4526. 458	75, <i>Z</i>	22086. 15	$\left\{ \begin{array}{l} b^5D_4-w^5D_3 \\ a^5G_4-z^5G_5 \end{array} \right.$
4560. 26	1	21922. 45	$b^3G_3-w^5G_3$				$a^3G_4-z^3G_5$
4560. 01	1	21923. 65	$b^1I_6-x^3I_3$	4526. 090	40	22087. 95	$\left\{ \begin{array}{l} a^3G_4-z^3G_5 \\ b^3P_2-x^3D_3 \end{array} \right.$
4558. 246	8	21932. 14	$b^3F_3-v^3F_2$	4525. 29	2 <i>wh</i>	22091. 83	$b^3F_3-v^3D_3$
4556. 179	40	21942. 09	$a^3F_3-y^3G_3$	4524. 835	15	22094. 08	$b^3F_4-v^3F_4$
4555. 309	15	21946. 28	$b^3G_4-x^3F_3$	4522. 019	12	22107. 84	$a^3F_2-y^3G_3$
4555. 088	15	21947. 34	$a^3G_5-z^3G_5$	4521. 138	25, <i>Z</i>	22112. 14	$\left\{ \begin{array}{l} b^3F_2-v^3D_3 \\ b^1I_6-u^3H_5 \end{array} \right.$
4554. 822	25	21948. 62	$a^3F_3-y^3G_4$	4519. 833	7	22118. 53	$b^5D_3-w^5D_4$
4553. 95	18	21952. 83	$b^3F_2-v^3F_3$				
4552. 877	7	21958. 00	$z^3F_3-e^3G_4$	4519. 24	1 <i>wh</i>	22121. 43	
4548. 652	3	21978. 40	$b^1I_6-x^3I_6$	4518. 633	6	22124. 40	$\left\{ \begin{array}{l} a^5G_4-x^5D_3 \\ a^3H_4-y^3F_3 \end{array} \right.$
4548. 207	5	21980. 55	$\left\{ \begin{array}{l} a^3D_2-u^5D_1 \\ a^1I_6-v^3G_5 \end{array} \right.$	4515. 435	25, <i>Z</i>	22140. 07	$b^5D_4-w^5D_4$
4547. 94	2	21981. 84	$a^3D_1-u^5D_0$	4514. 53	40 <i>wl</i>	22144. 51	$z^7P_4-f^7S_3$
4546. 53	1	21988. 65	$\left\{ \begin{array}{l} b^3F_4-v^3F_3 \\ b^3D_1-r^3F_2 \end{array} \right.$	4514. 364	20	22145. 32	$b^1I_6-u^3H_6$
4545. 946	100, <i>Z</i>	21991. 48	$a^5S_2-y^5P_2$				
4545. 335	25	21994. 43	$a^5G_3-z^5G_2$	4513. 88	3	22147. 70	$a^3F_2-z^3S_1$
4544. 607	50	21997. 96	$\left\{ \begin{array}{l} a^5G_2-z^5G_2 \\ b^5D_2-w^5D_1 \end{array} \right.$	4513. 222	8	22150. 93	$\left\{ \begin{array}{l} d^3F_4-t^3H_4 \\ a^3G_4-y^3G_3 \end{array} \right.$
4543. 734	20	22002. 18	$a^3H_5-y^3F_4$	4513. 025	3	22151. 89	$c^3G_3-r^3F_2$
4542. 64	35, <i>Z</i>	22007. 48	$\left\{ \begin{array}{l} a^3G_4-z^3G_4 \\ b^3F_4-u^3F_3 \end{array} \right.$	4511. 90	60	22157. 42	$\left\{ \begin{array}{l} a^3G_4-y^3G_4 \\ a^3G_4-y^3G_5 \end{array} \right.$
4541. 766	3	22011. 72	$b^5D_1-w^5D_1$	4510. 015	15	22166. 68	$d^3F_2-u^3D_1$

TABLE 1. Wavelengths and term combinations of Cr I—Continued

a, Double; *h*, hazy; *H*, very hazy; *l*, shaded longward; *s*, shaded shortward; *r*, reversed; *R*, strongly reversed; *w*, wide; *W*, very wide; *Z*, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
4508. 758	5	22172. 86	$c^3G_4-r^3F_3$	4468. 65	4	22371. 86	$d^3F_3-t^3D_3$
4507. 94	4 <i>w</i>	22176. 88	$d^3F_3-t^3H_4$	4468. 376	7	22373. 24	$b^5D_3-w^5F_3$
4506. 844	30, <i>Z</i>	22182. 28	$a^5F_3-s^5D_3$	4467. 567	30	22377. 28	$b^5D_2-w^5F_2$
4506. 08	2 <i>wh</i>	22186. 03	$b^1I_6-y^1H_3$	4467. 32	7	22378. 52	$b^5D_2-w^5F_1$
4505. 88	1 <i>wh</i>	22187. 02	$a^5F_2-s^5D_3$	4466. 17	25	22384. 28	$b^5D_3-w^5F_3$
4505. 49	1	22188. 94	$z^5G_4-e^5H_4$	4465. 367	35	22388. 31	$a^5G_5-x^5D_4$
4505. 22	1	22190. 27		4465. 16	20	22389. 35	$b^5D_2-w^5F_3$
4504. 52	1 <i>wh</i>	22193. 72	$a^3G_5-x^3G_5$	4464. 925	25	22390. 53	$a^5F_5-s^5D_4$
4503. 91	2	22196. 72	$z^5G_3-e^5H_3$	4464. 66	25	22391. 86	$b^5D_1-w^5F_2$
4503. 04	12	22201. 01	$e^5S_2-x^5S_1$	4462. 785	30	22401. 27	$b^5D_0-w^5F_1$
4502. 210	7	22205. 11	$a^3P_2-w^5D_1$	4462. 09	2 <i>w</i>	22404. 76	$a^5F_1-s^5D_4$
4501. 788	25	22207. 19	$a^3P_1-y^3P_1$	4461. 315	7	22408. 65	$a^3F_4-z^3I_3$
4501. 65	10	22207. 87	$a^3D_2-w^3F_2$	4460. 763	18	22411. 42	$a^5P_2-w^5F_2$
4501. 10	35	22210. 58	$a^3D_1-w^3F_2$	4459. 75	25	22416. 51	$b^3F_2-v^3D_3$
4500. 68	2 <i>w</i>	22212. 66	$a^3P_1-y^3P_0$	4459. 37	18 <i>w</i>	22418. 42	$b^5D_3-w^5F_4$
4500. 29	40, <i>Z</i>	22214. 58	$z^5G_3-e^5H_4$	4458. 977	3	22420. 40	$a^5F_3-s^5D_4$
4499. 256	5	22219. 69	$a^3G_3-y^3G_3$	4458. 537	45, <i>Z</i>	22422. 61	$a^3D_3-w^3F_1$
4498. 727	35, <i>Z</i>	22222. 30	$d^3F_3-t^3D_2$	4458. 537	45, <i>Z</i>	22422. 61	$b^5D_4-w^5F_5$
4496. 85	100, <i>Z</i>	22231. 57	$a^1I_6-z^3K_6$	4456. 36	3	22433. 57	$b^3F_2-w^3F_2$
4495. 685	2	22237. 34	$a^3P_1-y^3P_3$	4456. 19	3	22434. 42	$a^3H_4-w^5D_3$
4495. 282	12	22239. 33	$e^5S_2-y^5P_3$	4455. 46	7	22438. 10	$b^5D_4-w^5F_4$
4495. 041	4	22240. 52	$z^5G_4-e^5H_5$	4453. 93	1 <i>wh</i>	22445. 80	
4493. 41	2	22248. 59	$b^3F_4-u^3F_3$	4453. 309	3	22448. 93	$z^5H_7-e^5H_6$
4492. 31	40, <i>Z</i>	22254. 04	$a^3H_4-y^3D_3$	4451. 85	1	22456. 29	
4491. 858	35	22256. 28	$c^3G_5-r^3F_4$	4450. 28	4 <i>w</i>	22464. 21	
4491. 687	30	22257. 13	$b^3P_2-y^3S_1$	4449. 995	4	22465. 65	
4490. 55	8 <i>wl</i>	22262. 76	$a^3P_2-w^5D_2$	4449. 61	1	22467. 59	$a^3F_4-v^5F_5$
4489. 47	35	22268. 12	$z^7P_3-f^7S_3$	4448. 07	2	22475. 37	
4488. 056	30, <i>Z</i>	22275. 14	$a^5F_4-s^5D_3$	4447. 85	1	22476. 48	$b^3P_1-x^3F_2$
4487. 85	2	22276. 16	$a^3D_2-w^3F_3$	4444. 00	1	22495. 96	$z^7F_3-g^7D_3$
4487. 47	5 <i>w</i>	22278. 05	$a^5P_1-w^5P_1$	4443. 719	30	22497. 38	$a^3D_1-w^3P_0$
4486. 38	1 <i>w</i>	22283. 46	$a^3P_2-w^5D_3$	4443. 22	1 <i>w</i>	22499. 92	
4485. 68	1 <i>w</i>	22286. 93	$a^5F_3-s^5D_3$	4442. 74	2 <i>wh</i>	22502. 33	
4484. 683	8	22291. 88	$a^5P_2-w^5P_1$	4442. 277	30	22504. 68	$a^3H_6-w^5F_5$
4484. 61	5	22292. 25	$b^3H_5-s^3F_4$	4441. 02	1	22511. 05	$a^3F_4-x^5H_4$
4482. 88	40, <i>Z</i>	22300. 85	$z^5F_4-e^7G_5$	4439. 34	4 <i>wh</i>	22519. 57	$z^5P_1-g^5S_2$
4482. 73	1	22301. 60	$a^3G_3-x^3G_3$	4438. 23	5 <i>wh</i>	22525. 20	$a^3F_3-v^5F_2$
4481. 45	18	22307. 97	$b^3F_3-u^3F_3$	4436. 96	5 <i>wh</i>	22531. 65	$z^5P_2-g^5S_2$
4480. 36	20	22313. 39	$a^3G_4-x^3G_4$	4436. 49	7 <i>wh</i>	22534. 06	$a^3F_3-v^5F_3$
4480. 27	30	22313. 84	$b^3P_1-y^3S_1$	4436. 44	7	22534. 29	$z^5P_3-g^5S_2$
4478. 885	4	22320. 74	$d^3F_2-u^3D_2$	4434. 76	10	22542. 82	$a^3F_5-v^3G_4$
4477. 99	4	22325. 20	$a^1I_6-z^3K_7$	4434. 474	8	22544. 28	$b^5D_3-z^3G_3$
4477. 522	5	22327. 54	$d^3F_3-u^3D_2$	4433. 969	20	22546. 85	$b^5D_2-z^3G_3$
4477. 05	35 <i>w</i>	22329. 89	$a^3D_2-w^3F_3$	4433. 41	1	22549. 69	$z^5H_5-e^5H_5$
4476. 131	7	22334. 48	$b^3P_0-y^3S_1$	4432. 772	15	22552. 93	$a^5F_4-v^3G_4$
4475. 36	50 <i>w</i>	22338. 32	$a^5P_1-w^5P_3$	4432. 16	40, <i>Z</i>	22556. 05	$z^5H_7-e^5H_7$
4473. 78	40	22346. 21	$z^5G_6-e^5H_7$	4430. 480	30, <i>Z</i>	22564. 60	$a^3P_0-y^3P_1$
4470. 442	3	22362. 90	$a^5P_2-w^5P_2$	4430. 24	10 <i>wh</i>	22565. 82	$b^5D_4-z^3G_3$
4469. 84	3	22365. 91	$z^7P_2-f^7S_3$	4429. 932	20	22567. 40	$a^3D_1-w^3P_1$
4469. 765	4	22366. 28	$b^3F_4-v^3D_3$	4429. 54	5 <i>wh</i>	22569. 39	$a^3P_1-w^5D_0$
			$a^5P_3-w^5P_3$	4428. 52	35	22574. 59	$d^3F_3-u^3D_3$
			$d^3F_4-t^3D_3$				$b^5D_3-u^5P_3$

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d, Double; *h*, hazy; *H*, very hazy; *l*, shaded longward; *s*, shaded shortward; *r*, reversed; *R*, strongly reversed; *w*, wide; *W*, very wide; *Z*, Zeeman pattern in table 2

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
4427. 709	10	22578. 72	$b^5D_2-u^5P_3$	4390. 53	1	22769. 92	$c^5D_4-s^3F_4$
4427. 02	1	22582. 24	$a^3F_3-x^5H_4$	4390. 07	2 <i>d</i>	22772. 30	$b^5D_4-y^3G_4$
4426. 653	8	22584. 11	$a^3P_2-w^5F_2$				$b^5D_4-y^3G_4$
4425. 61	2	22589. 43	$z^5H_6-e^5H_6$	4387. 511	30, <i>Z</i>	22785. 59	$a^3H_6-z^3G_5$
4425. 133	12	22591. 87	$b^3P_2-t^5P_3$	4387. 38	20	22786. 26	$a^3P_2-u^5P_3$
			$a^3G_5-z^3I_6$	4386. 945	5	22788. 53	$a^3P_1-w^5D_1$
							$b^5D_2-z^3S_1$
4424. 293	40, <i>Z</i>	22596. 15	$b^5D_4-u^5P_3$				
4424. 099	10	22597. 14	$a^3P_1-y^3D_2$	4386. 465	4	22791. 02	$a^3G_4-x^5H_4$
4423. 67	7 <i>wh</i>	22599. 33	$b^3P_2-y^5S_2$	4385. 30	2	22797. 07	$a^3F_4-u^5F_3$
4423. 325	12	22601. 10	$b^5D_1-z^3G_4$	4384. 974	75, <i>Z</i>	22798. 77	$a^3G_3-v^5F_2$
4422. 97	8 <i>w</i>	22602. 91	$a^3G_5-v^5F_4$	4384. 373	8 <i>d</i> ?	22801. 89	$a^5D_1-z^3S_1$
							$a^3G_3-v^5F_3$
4422. 697	10	22604. 30	$a^3D_2-w^3P_2$	4383. 96	2	22804. 35	$c^5D_4-s^3F_3$
4422. 45	8 <i>w</i>	22605. 57	$a^3G_5-v^5F_5$	4383. 90	2	22809. 77	$a^5P_1-v^5P_1$
4421. 74	8 <i>wh</i>	22609. 20		4382. 86	20	22811. 43	$b^5D_0-z^3S_1$
4420. 963	10	22613. 17	$z^7F_3-g^7D_3$	4382. 54	5, <i>Z</i>	22811. 79	$a^3F_3-u^5F_2$
4420. 34	1	22616. 36	$a^3F_4-x^5H_5$	4382. 47	2	22818. 86	$a^5P_2-v^5P_1$
				4381. 113	35, <i>Z</i>		
4420. 117	2	22617. 50		4380. 793	4	22820. 53	$b^3H_6-t^3H_6$
4419. 68	1	22619. 73		4380. 552	10	22821. 78	$b^5D_3-x^5G_3$
4419. 107	10	22622. 67	$b^5D_4-z^3G_4$	4380. 05	1	22824. 40	
4417. 71	1	22629. 83	$c^5D_2-s^3F_3$	4379. 768	20	22825. 87	$b^5D_2-x^5G_3$
4417. 24	1	22632. 23	$z^5H_4-e^5H_3$	4378. 321	10	22833. 41	
4416. 49	5	22636. 07					
4414. 47	8 <i>w</i>	22646. 44	$b^3P_1-y^5S_2$	4377. 545	30, <i>Z</i>	22837. 46	$a^3P_1-w^5D_3$
4414. 38	10 <i>w</i>	22646. 90	$c^5D_3-r^5D_3$	4376. 803	25, <i>Z</i>	22841. 33	$b^3H_6-t^3H_6$
4414. 08	4	22648. 43		4375. 338	30, <i>Z</i>	22848. 98	$a^3H_5-z^3G_4$
4413. 86	40, <i>Z</i>	22649. 56	$a^3D_3-w^3P_2$	4374. 166	40	22855. 10	$a^3H_6-y^3G_5$
				4373. 65	15, <i>Z</i>	22857. 79	$b^3H_4-t^3H_4$
4413. 00	12	22653. 98	$a^1H_5-s^3H_6$				
4412. 56	2	22656. 24	$c^3D_2-v^3P_2$	4373. 255	35, <i>Z</i>	22859. 86	$a^5D_2-z^5F_1$
4412. 25	40	22657. 83	$a^5D_4-z^5F_3$	4372. 31	4	22864. 80	$a^3F_4-t^5F_4$
4411. 105	40	22663. 71	$b^5D_3-u^5P_2$	4371. 279	75	22870. 19	$d^3F_3-r^3F_3$
4410. 97	25, <i>Z</i>	22664. 40	$a^3H_5-w^5F_4$	4370. 87	5	22872. 33	$b^3H_5-t^3H_5$
				4370. 76	5	22872. 91	$a^5D_3-z^5F_3$
4410. 306	40	22667. 82	$b^5D_2-u^5P_3$	4370. 44	2	22874. 58	$a^3P_2-u^5P_2$
4409. 565	12	22671. 62	$z^5H_4-e^5H_4$	4369. 624	1	22878. 85	$b^3P_2-s^5F_3$
4407. 70	40 <i>d</i>	22681. 22	$b^5D_1-u^5P_2$	4369. 122	3	22881. 48	$b^3P_1-s^5F_2$
4407. 027	3	22684. 68	$a^3F_2-x^5H_3$	4368. 903	8	22882. 63	$b^3P_2-w^3D_1$
4406. 67	20	22686. 52	$a^5F_5-v^3G_5$	4368. 647	2	22883. 97	$b^3H_4-t^3H_5$
			$z^5H_3-e^5H_3$				
4406. 272	18	22688. 57	$a^3G_4-z^3I_5$	4368. 35	4	22885. 52	
			$z^5H_6-e^5H_7$	4368. 254	20	22886. 03	$b^5D_3-x^5G_4$
4403. 513	40	22702. 79	$a^1I_6-z^1I_6$	4367. 445	4	22890. 27	
4403. 377	35	22703. 48	$b^5D_4-z^3G_5$	4367. 307	2	22890. 99	$b^3H_5-t^3H_6$
4400. 03	3 <i>w</i>	22720. 75		4366. 62	2	22894. 59	$c^5D_4-r^5D_4$
4399. 821	30	22721. 83	$b^5D_2-u^5P_1$				
4399. 04	2	22725. 87	$z^5H_3-e^5H_4$	4366. 327	4	22896. 13	$a^3G_4-x^5H_5$
4397. 243	30	22735. 16	$b^5D_1-u^5P_1$	4364. 875	10	22903. 74	$a^3G_5-x^5H_6$
4396. 16	2	22740. 76	$b^3G_5-u^5D_4$	4364. 136	10	22907. 62	$b^5D_4-x^5G_4$
4395. 416	18	22744. 61	$b^5D_3-y^3G_3$	4364. 09	4 <i>w</i>	22907. 87	$a^3F_3-u^5F_4$
4394. 84	8	22747. 59	$b^5D_0-u^5P_1$	4363. 693	4	22909. 95	$d^3F_4-r^3F_4$
			$b^5D_2-x^5G_2$				
4394. 67	2	22748. 47		4363. 132	30, <i>Z</i>	22912. 90	$a^3H_4-z^3G_3$
4394. 188	5	22750. 96	$b^5D_3-y^3G_4$	4362. 97	7 <i>w</i>	22913. 75	$a^3P_0-y^3D_1$
4393. 536	12	22754. 34	$a^3H_4-w^5F_3$	4362. 08	3	22918. 42	$b^3D_3-v^3G_4$
4393. 369	5	22755. 20	$a^3G_5-x^5H_5$	4361. 86	3	22919. 58	
4392. 81	2 <i>w</i>	22758. 10		4361. 45	3	22921. 73	$z^5P_2-c^3F_3$
4392. 261	10	22760. 94	$b^5D_1-x^5G_2$	4360. 955	3	22924. 33	$b^3G_4-u^5D_3$
4391. 755	40, <i>Z</i>	22763. 56	$a^5D_3-z^5F_2$	4359. 984	20	22929. 44	$a^3H_5-z^3G_5$
4391. 43	1	22765. 25	$b^5D_4-y^3G_3$	4359. 647	75, <i>Z</i>	22931. 21	$b^3P_1-w^3D_1$
4391. 073	10	22767. 10		4358. 663	10	22936. 39	$a^5D_4-z^5F_2$
4390. 82	1	22768. 41	$a^5F_3-s^5P_3$	4358. 57	2	22936. 88	$a^3F_3-t^5F_4$
							$a^3P_2-u^5F_1$

TABLE 1. Wavelengths and term combinations of Cr I—Continued

, Double; *h*, hazy; *H*, very hazy; *l*, shaded longward; *s*, shaded shortward; *r*, reversed; *R*, strongly reversed; *w*, wide; *W*, very wide; *Z*, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
4357. 508	15	22942. 47	$b^3P_0-w^3D_1^{\circ}$	4312. 48	15	23182. 01	$a^3F_3-y^3H_4$
4356. 766	20	22946. 38	$b^3D_4-x^5G_5^{\circ}$	4311. 94	1	23184. 92	
4356. 56	3	22947. 46	$a^3G_5-u^5F_5^{\circ}$	4310. 47	3	23192. 82	
4356. 285	8	22948. 91		4309. 73	8, <i>Z</i>	23196. 81	$c^3D_2-u^3P_1^{\circ}$
4355. 28	4 <i>w</i>	22954. 20	$a^3P_2-x^5G_2^{\circ}$	4307. 67	2	23207. 90	$c^3G_5-x^1I_6^{\circ}$
4353. 942	15	22961. 26	$b^3P_2-w^3D_2^{\circ}$	4307. 487	10	23208. 89	$a^3G_3-t^5F_4$
4353. 28	3 <i>w</i>	22964. 75	$a^5F_3-q^5F_3^{\circ}$	4305. 91	1	23217. 39	
4351. 77	100, <i>Z</i>	22972. 72	$a^5D_4-z^5F_5^{\circ}$	4305. 468	30	23219. 79	$z^7P_2^{\circ}-f^7D_2$
4351. 055	75, <i>Z</i>	22976. 50	$a^5D_1-z^5F_1^{\circ}$	4304. 737	3	23223. 71	$\left\{ \begin{array}{l} c^3G_4-s^3G_3^{\circ} \\ b^3D_2-q^5F_2^{\circ} \end{array} \right.$
4350. 00	1 <i>w</i>	22982. 07		4304. 331	5	23225. 90	$c^3D_1-u^3P_1^{\circ}$
4347. 491	8	22995. 33	$a^3P_2-z^3S_1^{\circ}$	4302. 784	15	23234. 25	$c^3G_5-s^3G_3^{\circ}$
4347. 13	1	22997. 24		4302. 12	5 <i>w</i>	23237. 84	
4346. 829	30	22998. 83	$\left\{ \begin{array}{l} a^3H_5-y^3G_4^{\circ} \\ a^3H_5-y^3G_5^{\circ} \end{array} \right.$	4301. 185	25, <i>Z</i>	23242. 89	$b^3G_5-w^3F_4^{\circ}$
4345. 808	7	23004. 24	$a^3G_5-t^5F_4^{\circ}$	4300. 522	20, <i>Z</i>	23246. 47	$b^3G_4-w^3F_3^{\circ}$
4345. 09	15	23008. 09	$b^3P_1-w^3D_2^{\circ}$	4300. 28	1 <i>w</i>	23247. 78	$c^3D_1-u^3P_0^{\circ}$
4344. 51	100, <i>Z</i>	23011. 11	$a^5D_3-z^5F_4^{\circ}$	4299. 97	12, <i>Z</i>	23249. 46	
4343. 17	18, <i>Z</i>	23018. 21	$a^5P_1-v^5P_2^{\circ}$	4299. 92	4	23249. 73	$a^3G_5-y^3H_4$
4342. 00	7	23024. 41		4299. 723	20	23250. 79	$z^7P_3^{\circ}-f^7D_3$
4341. 464	7	23027. 25	$a^5P_2-v^5P_2^{\circ}$	4298. 048	10	23259. 86	$c^3G_4-s^3G_4^{\circ}$
4341. 196	3	23028. 68	$a^3I_6-v^3G_5^{\circ}$	4297. 753	30, <i>Z</i>	23261. 45	$a^3I_5-z^3K_6^{\circ}$
4340. 14	18, <i>Z</i>	23034. 28	$a^5P_3-v^5P_2^{\circ}$	4297. 064	20	23265. 18	$a^5P_2-v^5P_3^{\circ}$
4339. 74	60, <i>Z</i>	23036. 40	$a^5D_0-z^5F_1^{\circ}$	4296. 63	8	23267. 63	$a^3I_6-z^3K_6^{\circ}$
4339. 45	75, <i>Z</i>	23037. 94	$a^5D_2-z^5F_3^{\circ}$	4296. 296	8	23269. 34	$a^3F_2-t^5F_1^{\circ}$
4338. 795	15	23041. 42	$b^3P_2-w^3D_3^{\circ}$	4296. 11	2	23270. 35	$c^3G_5-s^3G_4^{\circ}$
4338. 401	12	23043. 51		4295. 769	25, <i>Z</i>	23272. 22	$\left\{ \begin{array}{l} a^3G_5-y^3H_5^{\circ} \\ a^5P_3-v^5P_3^{\circ} \end{array} \right.$
4337. 566	75, <i>Z</i>	23047. 95	$a^5D_1-z^5F_2^{\circ}$	4295. 43	2	23274. 03	$c^3G_4-s^3G_3^{\circ}$
4337. 25	10 <i>w</i>	23049. 63	$c^3D_2-u^3G_3^{\circ}$	4294. 84	2	23277. 23	$a^3F_2-t^5F_2^{\circ}$
4336. 55	1	23053. 35	$b^3H_4-t^3D_3^{\circ}$	4294. 63	3	23278. 37	
4335. 78	1	23057. 44	$b^3G_3-u^5D_2^{\circ}$	4293. 578	25	23284. 07	$z^7P_4^{\circ}-f^7D_4$
4335. 15	1 <i>w</i>	23060. 79	$a^5F_3-r^5F_4^{\circ}$	4293. 42	2	23284. 93	$c^3D_2-t^3F_2^{\circ}$
4332. 574	15	23074. 51	$a^3F_4-t^5F_3^{\circ}$	4291. 972	30, <i>Z</i>	23292. 78	$b^3G_3-w^3F_2^{\circ}$
4332. 24	2	23076. 28	$z^5P_3^{\circ}-e^3F_4$	4289. 733	500, <i>Z</i>	23304. 94	$a^7S_3-z^7P_2^{\circ}$
4332. 13	2	23076. 87	$a^3G_4-u^5F_3^{\circ}$	4288. 404	6	23311. 97	$a^3F_2-t^5F_3^{\circ}$
4330. 76	3	23084. 17	$a^3G_3-u^5F_2^{\circ}$	4284. 909	10, <i>Z</i>	23331. 18	$\left\{ \begin{array}{l} b^5D_2-v^5F_5^{\circ} \\ c^5D_4-t^3H_4^{\circ} \end{array} \right.$
4328. 86	1	23094. 30	$b^3F_3-v^5G_2^{\circ}$	4284. 728	25	23332. 16	$\left\{ \begin{array}{l} z^7P_2^{\circ}-f^7D_3 \\ b^5D_3-v^5F_3^{\circ} \end{array} \right.$
4328. 007	5	23098. 85	$c^3D_3-u^3G_4^{\circ}$	4284. 00	3 <i>w</i>	23336. 13	$\left\{ \begin{array}{l} b^5D_3-v^5F_4^{\circ} \\ b^5D_2-v^5F_3^{\circ} \end{array} \right.$
4327. 61	4 <i>w</i>	23100. 97		4283. 17	1	23340. 65	$c^3D_2-t^3F_3^{\circ}$
4325. 65	8	23111. 44	$a^3F_3-t^5F_2^{\circ}$	4283. 004	4	23341. 55	$c^3D_3-t^3F_3^{\circ}$
4325. 075	40, <i>Z</i>	23114. 50	$a^3H_4-y^3G_3^{\circ}$	4282. 75	1	23342. 94	$\left\{ \begin{array}{l} b^5D_1-v^5F_1^{\circ} \\ a^5F_5-w^3H_4 \end{array} \right.$
4324. 642	10	23116. 82	$a^3G_4-u^5F_4^{\circ}$	4281. 80	2	23348. 12	
4323. 847	3	23121. 07	$\left\{ \begin{array}{l} a^3H_4-y^3G_4^{\circ} \\ a^3H_4-y^3G_5^{\circ} \end{array} \right.$	4281. 04	3	23352. 26	$\left\{ \begin{array}{l} a^3F_3-x^3P_3^{\circ} \\ b^5D_0-v^5F_1^{\circ} \end{array} \right.$
4323. 521	30, <i>Z</i>	23122. 82		4280. 89	4 <i>w</i>	23353. 05	$b^3G_3-w^3F_3^{\circ}$
4321. 624	20	23132. 97	$a^3F_4-y^3H_5^{\circ}$	4280. 65	3 <i>w</i>	23354. 39	$\left\{ \begin{array}{l} a^3G_4-t^5F_3^{\circ} \\ b^5D_4-v^5F_3^{\circ} \end{array} \right.$
4321. 248	20	21334. 98	$a^3P_0-w^5D_1^{\circ}$	4280. 42	75, <i>Z</i>	23355. 64	$a^3I_6-z^3K_7^{\circ}$
4320. 608	30, <i>Z</i>	23138. 41	$\left\{ \begin{array}{l} z^7P_4^{\circ}-f^7D_3 \\ z^7P_3^{\circ}-f^7D_2 \end{array} \right.$	4280. 186	7	23356. 92	$\left\{ \begin{array}{l} b^5D_4-v^5F_4^{\circ} \\ c^5D_4-t^3H_5^{\circ} \end{array} \right.$
4319. 659	40	23143. 49	$z^7P_2^{\circ}-f^7D_1$	4279. 55	2 <i>h</i>	23360. 39	$a^3I_7-z^3K_7^{\circ}$
4319. 308	7	23145. 37	$\left\{ \begin{array}{l} a^3F_3-t^5F_3^{\circ} \\ a^3G_4-t^5F_4^{\circ} \end{array} \right.$	4279. 17	1 <i>h</i>	23362. 46	$b^5D_4-v^5F_3^{\circ}$
4318. 615	4	23149. 08	$\left\{ \begin{array}{l} b^3D_1-q^5F_1^{\circ} \\ b^3F_3-v^5G_3^{\circ} \end{array} \right.$	4277. 80	2 <i>h</i>	23369. 95	$\left\{ \begin{array}{l} a^3I_5-q^5F_4^{\circ} \\ z^5F_2^{\circ}-e^5F_3 \end{array} \right.$
4318. 05	3	23152. 11	$c^3D_2-u^3P_2^{\circ}$	4275. 98	7 <i>w</i>	23379. 90	$z^5F_5^{\circ}-e^5F_5$
4317. 914	15	23152. 84	$c^3D_3-u^3P_2^{\circ}$	4274. 806	750 <i>R</i>	23386. 32	$a^7S_3-z^7P_3^{\circ}$
4316. 88	1 <i>wh</i>	23158. 39	$a^5F_4-r^5F_3^{\circ}$				
4315. 62	5	23165. 15	$a^3P_1-w^5F_2^{\circ}$				
4315. 405	5	23166. 30	$\left\{ \begin{array}{l} a^3P_1-w^5F_1^{\circ} \\ b^3F_4-v^5G_4^{\circ} \end{array} \right.$				
4313. 97	5 <i>w</i>	23174. 01					
4312. 772	8	23180. 44	$a^3G_3-u^5F_4^{\circ}$				

TABLE I. Wavelengths and term combinations of Cr I—Continued

d, Double; h, hazy; H, very hazy; l, shaded longward; s, shaded shortward; r, reversed; R, strongly reversed; w, wide; W, very wide; Z, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
4274. 01	2w	23390. 72	$\left\{ \begin{array}{l} a^3F_2-x^3P_1^{\circ} \\ a^3G_4-y^3H_4^{\circ} \end{array} \right.$	4231. 515	1	23625. 57	$y^5F_3^{\circ}-e^5H_3^{\circ}$
4273. 64	2w	23392. 70		4231. 335	18	23626. 57	$c^3G_4-s^3H_4^{\circ}$
4272. 93	50w	23396. 58	$z^7P_3^{\circ}-f^7D_4$	4231. 03	5	23628. 27	$a^5F_3-w^3F_3^{\circ}$
4271. 20	1w	23406. 06	$\left\{ \begin{array}{l} b^5D_4-x^5H_4^{\circ} \\ a^5F_5-w^3H_5^{\circ} \end{array} \right.$	4230. 494	35, Z	23631. 27	$b^5D_1-u^5F_3^{\circ}$
4271. 073	30, Z	23406. 75	$a^3G_5-y^3H_6^{\circ}$	4230. 29	5w	23632. 41	$a^3H_5-x^5H_4^{\circ}$
4269. 959	20	23412. 86	$a^3G_4-y^3H_5^{\circ}$	4226. 753	40, Z	23652. 18	$\left\{ \begin{array}{l} a^3H_4-z^3I_5^{\circ} \\ c^3D_3-t^3G_4^{\circ} \end{array} \right.$
4269. 54	1w	23415. 17	$b^5D_3-w^7P_4^{\circ}$	4224. 522	20, Z	23664. 68	$\left\{ \begin{array}{l} a^3G_4-x^3G_4^{\circ} \\ c^3G_3-s^3H_4^{\circ} \end{array} \right.$
4269. 02	5h	23418. 01	$\left\{ \begin{array}{l} a^3G_3-t^5F_3^{\circ} \\ z^5F_3^{\circ}-e^5F_2 \end{array} \right.$	4223. 468	10	23670. 58	$b^5D_3-u^5F_3^{\circ}$
4268. 794	10, Z	23419. 25	$a^1I_6-y^1I_6^{\circ}$	4222. 752	40d?	23674. 60	$b^5D_2-u^5F_3^{\circ}$
4266. 812	8	23430. 13	$a^3H_6-z^3I_6^{\circ}$	4221. 583	40, Z	23681. 15	$\left\{ \begin{array}{l} a^3I_5-w^3H_4^{\circ} \\ a^3G_3-x^3G_3^{\circ} \end{array} \right.$
4266. 42	2w	23432. 28		4220. 46	8	23687. 45	$a^3H_4-x^5H_3^{\circ}$
4264. 11	1w	23444. 97	$\left\{ \begin{array}{l} a^5P_3-x^5F_4^{\circ} \\ a^5P_1-x^5F_1^{\circ} \end{array} \right.$	4219. 61	3	23692. 22	$b^5D_4-u^5F_3^{\circ}$
4263. 149	70, Z	23450. 27	$a^3I_7-z^3K_8^{\circ}$	4219. 03	1	23695. 48	$a^3F_2-1_3^{\circ}$
4262. 372	12	23454. 53	$a^3G_3-y^3H_4^{\circ}$	4217. 65	50, Z	23703. 23	$b^5D_4-u^5F_3^{\circ}$
4262. 129	22	23455. 87	$\left\{ \begin{array}{l} a^3P_1-u^5P_2^{\circ} \\ a^3F_3-x^3G_4^{\circ} \end{array} \right.$	4216. 386	30	23710. 33	$b^5D_3-u^5F_4^{\circ}$
4261. 627	25	23458. 64	$a^3F_4-1_3^{\circ}$	4216. 20	2h	23711. 38	
4261. 353	60	23460. 15	$z^7P_4^{\circ}-f^7D_5$	4215. 96	3hs	23712. 73	
4260. 18	5h	23466. 60	$z^5F_4^{\circ}-e^5F_4$	4215. 62	2w	23714. 64	
4259. 136	10w	23472. 36	$b^5D_2-v^5D_1^{\circ}$	4215. 31	1w	23716. 39	$c^3G_4-p^3F_3^{\circ}$
4257. 35	15w	23482. 20	$b^5D_3-v^5D_2^{\circ}$	4215. 00	2wh	23718. 14	$a^5P_2-y^5H_3^{\circ}$
4256. 63	8w	23486. 17	$\left\{ \begin{array}{l} b^5D_1-v^5D_1^{\circ} \\ b^5D_2-v^5D_2^{\circ} \end{array} \right.$	4214. 78	10wh	23719. 37	
4255. 501	30, Z	23492. 41	$a^3H_6-z^3I_7^{\circ}$	4214. 19	1w	23722. 69	$a^5G_5-z^5I_4^{\circ}$
4254. 331	1000R, Z	23498. 87	$a^7S_3-z^7P_3^{\circ}$	4214. 159	8	23722. 86	$a^5G_4-z^5I_4^{\circ}$
4252. 235	20	23510. 45	$b^5D_3-v^5D_3^{\circ}$	4213. 18	12	23728. 37	$a^3G_3-x^3G_4^{\circ}$
4251. 50	1	23514. 51	$b^5D_2-v^5D_3^{\circ}$	4212. 65	15w	23731. 36	$b^5D_4-u^5F_4^{\circ}$
4251. 38	3w	23515. 18	$a^3P_0-w^5F_1^{\circ}$	4211. 48	22	23737. 95	$a^3H_5-x^5H_3^{\circ}$
4250. 17	3h	23521. 87		4211. 34	40, Z	23738. 74	$\left\{ \begin{array}{l} b^5D_3-t^5F_4^{\circ} \\ a^3G_4-1_3^{\circ} \end{array} \right.$
4249. 68	4w	23524. 59	$\left\{ \begin{array}{l} z^5F_3^{\circ}-e^5F_2 \\ a^3G_5-x^3G_4^{\circ} \end{array} \right.$	4210. 76	18	23742. 01	$a^3H_6-x^5H_6^{\circ}$
4248. 73	6w	23529. 84	$\left\{ \begin{array}{l} a^3H_5-z^3I_3^{\circ} \\ a^3F_3-1_3^{\circ} \end{array} \right.$	4210. 42	3ws	23743. 93	$a^3I_5-w^3H_5^{\circ}$
4248. 70	5w	23530. 01		4209. 76	40, Z	23747. 65	$a^3G_5-x^3G_5^{\circ}$
4248. 34	12	23532. 00	$b^5D_4-v^5D_3^{\circ}$	4209. 37	60, Z	23749. 85	$a^3I_6-w^3H_5^{\circ}$
4245. 66	2w	23546. 86	$b^3H_4-r^3F_3^{\circ}$	4209. 21	4w	23750. 76	$a^3I_6-z^1I_6^{\circ}$
4244. 78	2w	23551. 74	$\left\{ \begin{array}{l} b^3F_2-v^3P_2^{\circ} \\ a^5F_4-v^3H_5^{\circ} \end{array} \right.$	4208. 50	2	23754. 77	$\left\{ \begin{array}{l} c^3G_3-p^3F_4^{\circ} \\ a^3H_4-x^5H_4^{\circ} \end{array} \right.$
4244. 34	3w	23554. 18	$\left\{ \begin{array}{l} c^3F_4-r^3F_3^{\circ} \\ z^5F_4^{\circ}-e^5F_5 \end{array} \right.$	4208. 36	40	23755. 55	$a^3I_5-v^3H_4^{\circ}$
4242. 84	10	23562. 51	$b^5D_3-v^5D_4^{\circ}$	4208. 10	4	23757. 02	
4241. 179	7	23571. 74		4207. 85	2w	23758. 43	
4240. 714	50, Z	23574. 32	$\left\{ \begin{array}{l} a^3F_2-x^3G_3^{\circ} \\ a^3H_5-z^3I_6^{\circ} \end{array} \right.$	4207. 77	2w	23758. 88	
4240. 33	2	23576. 46	$a^3P_1-z^3S_1^{\circ}$	4207. 503	5	23760. 39	$b^5D_4-t^5F_4^{\circ}$
4238. 96	40, Z	23584. 08	$b^5D_4-v^5D_4^{\circ}$	4207. 11	1	23762. 61	
4238. 19	2	23588. 36		4206. 909	40, Z	23763. 75	$c^3G_4-s^3H_5^{\circ}$
4237. 72	15w	23590. 97	$b^5D_1-u^5F_1^{\circ}$	4206. 64	8	23765. 27	
4237. 25	2	23593. 60	$a^3H_6-x^5H_5^{\circ}$	4206. 22	2w	23768. 21	
4236. 79	2w	23596. 15	$z^5F_1^{\circ}-e^5F_2$	4205. 68	1w	23770. 70	
4235. 99	25w	23600. 61	$b^5D_0-u^5F_1^{\circ}$	4205. 04	8	23774. 31	$\left\{ \begin{array}{l} a^5P_3-y^5H_4^{\circ} \\ c^3G_5-s^3H_5^{\circ} \end{array} \right.$
4235. 50	1	23603. 34	$\left\{ \begin{array}{l} b^3H_5-r^3F_4^{\circ} \\ c^3F_3-r^3F_3^{\circ} \end{array} \right.$	4204. 48	55, Z	23777. 47	$a^1I_6-u^3H_5^{\circ}$
4234. 78	2w	23607. 35	$z^5F_3^{\circ}-e^5F_4$	4204. 20	30	23779. 06	$a^5G_3-y^5G_2^{\circ}$
4234. 52	15	23608. 80	$a^3F_4-x^3G_5^{\circ}$	4203. 59	50, Z	23782. 51	$a^5G_2-y^5G_2^{\circ}$
4232. 87	12w	23618. 00	$\left\{ \begin{array}{l} b^5D_2-u^5F_3^{\circ} \\ a^3G_4-x^3G_3^{\circ} \end{array} \right.$	4203. 05	2w	23785. 56	$a^3H_6-u^5F_3^{\circ}$
4232. 233	15, Z	23621. 56	$c^3D_2-t^3G_3^{\circ}$	4200. 10	35, Z	23802. 27	$a^3G_3-1_3^{\circ}$
4231. 65	3	23624. 81	$c^3F_4-r^3F_4^{\circ}$	4198. 54	55	23811. 12	$\left\{ \begin{array}{l} a^3I_5-v^3H_6^{\circ} \\ a^1I_6-u^3H_6^{\circ} \end{array} \right.$
				4198. 02	2	23814. 07	$a^5F_5-w^3F_4^{\circ}$
				4197. 824	8	23815. 18	
				4197. 45	10	23817. 30	$a^3I_6-v^3H_6^{\circ}$
				4197. 24	50	23818. 49	$a^3I_7-v^3H_6^{\circ}$
				4195. 59	2w	23827. 86	

TABLE I. Wavelengths and term combinations of Cr I—Continued

d, Double; h, hazy; H, very hazy; l, shaded longward; s, shaded shortward; r, reversed; R, strongly reversed; w, wide; W, very wide; Z, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
4194. 96	55, Z	23831. 44	$a^3I_5-w^3H_6$	4170. 214	50, Z	23972. 85	$b^3F_3-u^3G_4$
4194. 331	25	23835. 01		4169. 841	65, Z	23974. 99	$b^3F_4-u^3G_5$
4193. 89	15	23837. 52	$a^3I_6-w^3H_6$	4168. 309	8	23983. 81	$b^3D_3-v^3F_5$
4193. 662	60, Z	23838. 81	$a^3I_7-w^3H_6$	4168. 12	2	23984. 89	$b^5D_3-y^3H_4$
4192. 558	12	23845. 09		4167. 811	12	23986. 67	$a^3H_5-t^5F_4$
4192. 113	40, Z	23847. 56	$a^1I_6-y^1H_6$	4166. 44	1h	23994. 56	$a^5G_6-z^5I_7$
4191. 754	30	23849. 66	$a^5G_4-y^5G_3$	4165. 52	60, Z	23999. 86	$b^3H_5-w^3I_8$
4191. 274	50, Z	23852. 39	$a^5G_3-y^5G_3$	4163. 91	7w	24009. 14	$z^5F_3-e^3D_2$
4190. 664	15, Z	23855. 87	$a^5G_2-y^5G_3$	4163. 627	75, Z	24010. 77	$a^5G_5-y^5G_4$
4190. 15	40, Z	23858. 79	$a^3P_0-u^5P_1$	4163. 15	4	24013. 52	$a^5G_4-y^5G_4$
							$a^5G_3-y^5G_4$
4189. 965	18	23859. 85	$a^3H_4-x^5H_5$	4162. 48	4h	24017. 39	$z^5F_1-e^3D_1$
4186. 888	10	23877. 38	$a^5P_1-y^3P_0$	4161. 78	7h	24021. 43	$z^5F_3-g^5D_3$
4186. 59	7w	23879. 08	$c^3G_4-r^3G_4$	4161. 43	55, Z	24023. 45	$b^3P_2-w^3P_1$
4186. 358	45	23880. 41	$a^3I_6-v^3H_5$	4160. 82	2	24026. 97	$b^3H_6-w^3I_7$
4185. 347	30	23886. 17	$z^5F_4-g^5D_3$	4160. 61	4w	24028. 18	$b^3F_3-u^3P_2$
			$a^3H_5-x^5H_5$	4160. 03	1w	24031. 54	$b^5D_2-x^3P_1$
4185. 04	12	23888. 13		4158. 89	15w	24038. 12	$d^3F_4-s^3D_3$
4184. 901	40	23888. 72	$a^3G_4-x^3G_5$	4157. 25	2w	24047. 61	$b^3F_2-u^3P_2$
4184. 662	20	23890. 08	$d^3F_4-s^3G_5$	4154. 99	4w	24061. 27	
4183. 73	2w	23895. 40		4154. 17	2	24065. 43	$a^3I_5-u^3F_4$
4183. 071	30	23899. 17	$a^3F_2-x^3D_1$	4153. 812	60	24067. 51	$a^5G_5-y^5G_5$
4181. 645	10w	23907. 32		4153. 072	30	24071. 80	$a^5G_4-y^5G_5$
4181. 54	4h	23907. 92	$b^3D_1-v^3D_1$	4152. 779	40, Z	24073. 50	$a^5G_6-y^5G_5$
4181. 34	3	23909. 06		4152. 05	5w	24077. 72	$b^3D_2-v^3F_3$
4180. 67	8h	23912. 90		4151. 575	15w	24080. 48	$d^3F_3-s^3D_3$
4180. 52	8h	23913. 75	$b^5D_3-t^5F_2$	4151. 02	6w	24083. 70	$a^3H_4-u^5F_4$
4179. 971	30	23916. 90	$c^3G_4-r^3G_5$	4150. 81	5wh	24084. 92	$b^3P_0-w^3P_1$
4179. 78	2	23917. 99	$b^5D_2-t^5F_2$	4150. 48	2	24086. 83	$b^3D_3-v^3F_2$
4179. 42	20	23920. 05	$b^3F_4-u^3G_4$	4149. 453	30	24092. 79	$a^3F_2-x^3D_3$
4179. 27	70, Z	23920. 91	$a^3F_3-x^3D_3$	4148. 49	8w	24098. 38	$b^3D_3-v^3F_3$
			$a^3I_6-z^1K_2$	4147. 74	8h	24102. 74	$z^5F_4-g^5D_4$
4179. 047	18	23922. 18	$a^3I_7-z^1K_2$	4147. 55	4h	24103. 85	$a^3D_1-v^3D_2$
			$b^3H_5-w^3I_5$	4146. 695	45	24108. 82	$a^3H_4-t^5F_4$
4178. 78	4w	23923. 71	$b^5D_1-t^5F_1$	4146. 467	20	24110. 14	$b^3P_1-w^3P_2$
4178. 52	4w	23925. 20	$b^3F_3-u^3G_3$	4146. 206	40	24111. 66	$a^3H_6-y^3H_5$
4178. 36	2	23926. 12	$a^3P_0-z^3S_1$	4145. 49	5w	24115. 82	$b^3D_3-u^3F_4$
4178. 36	2	23926. 12	$d^3F_4-s^3G_4$	4145. 01	3	24118. 62	$z^5F_2-e^3D_2$
4178. 07	25w	23927. 78	$c^3G_5-r^3G_5$	4144. 55	5	24121. 29	$a^5P_2-y^3F_2$
4178. 07	25w	23927. 78	$b^3D_2-v^3D_1$	4142. 46	22	24129. 46	$b^3H_5-x^1H_5$
4177. 84	50h	23928. 81	$z^5F_5-g^5D_4$	4142. 192	45, Z	24133. 46	$a^3F_4-x^3D_3$
4177. 46	4	23931. 27	$b^5D_1-t^5F_2$	4140. 71	5wh	24135. 03	$b^3H_4-x^1H_5$
4177. 166	4	23932. 96	$b^5D_0-t^5F_1$	4139. 47	4wh	24143. 66	$b^3D_3-v^3D_2$
4176. 68	25	23935. 74	$b^3H_4-w^3I_5$	4139. 28	8w	24150. 90	
4175. 958	40, Z	23939. 87	$a^3H_6-x^5H_7$	4139. 18	7w	24152. 01	$a^3I_5-v^3F_4$
4175. 235	35	23944. 02	$b^3D_1-v^3F_2$	4139. 07	7whs	24152. 59	$a^5P_2-y^3F_3$
				4137. 95	3w	24153. 23	
4174. 96	25	23945. 60	$b^3F_2-u^3G_3$	4137. 92	10, Z	24159. 77	$a^5P_3-y^3F_3$
4174. 808	75	23946. 47	$z^5F_2-e^3D_1$	4137. 374	10	24159. 94	$b^3F_3-t^3F_2$
4174. 336	8	23949. 18		4135. 84	3	24163. 13	$b^3F_4-t^3F_3$
4174. 159	7	23950. 19	$b^3H_6-w^3I_6$	4135. 85	3	24172. 09	$b^5D_1-x^3P_2$
4173. 98	4	23951. 22		4135. 05	3w	24176. 71	$b^3F_3-p^5F_4$
4173. 877	7	23951. 84	$b^5D_2-t^5F_3$	4134. 387	35, Z	24180. 59	$b^3F_2-t^3F_2$
			$d^3F_3-s^3G_4$	4132. 17	2w	24193. 56	$a^3F_4-w^3G_3$
4172. 782	50, Z	23958. 09	$a^1G_4-y^1H_3$	4131. 98	3w	24194. 68	$a^3G_3-x^3D_2$
			$c^3G_5-s^3H_6$	4131. 36	50, Z	24198. 31	
4172. 517	10w	23959. 62	$d^3F_2-s^3G_3$	4130. 50	3w	24203. 34	$b^3D_3-v^3F_4$
4171. 676	40	23964. 45	$z^5F_3-g^5D_2$				$z^7P_4-g^7D_3$
4171. 676	40	23964. 45	$b^3D_2-v^3F_2$				
4170. 75	4w	23969. 77	$b^5D_4-t^5F_3$				

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d, Double; *h*, hazy; *H*, very hazy; *l*, shaded longward; *s*, shaded shortward; *r*, reversed; *R*, strongly reversed; *w*, wide; *W*, very wide; *Z*, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
4130. 10	15 <i>w</i>	24205. 68	$\left\{ \begin{array}{l} a^3F_3-x^3D_3 \\ z^7P_4-g^7D_4 \end{array} \right.$	4099. 82	15 <i>w</i>	24384. 46	
4129. 90	1	24206. 86		4099. 44	8 <i>w</i>	24386. 72	
4129. 20	50 <i>WH, Z</i>	24210. 96	$\left\{ \begin{array}{l} z^7P_4-g^7D_5 \\ b^5D_3-x^3G_3 \end{array} \right.$	4099. 02	30	24389. 22	$a^3H_5-y^3H_6$
4128. 392	35, <i>Z</i>	24215. 71	$b^3F_3-t^3F_3$	4098. 02	8 <i>w</i>	24395. 17	$z^7P_3-g^7D_1$
4128. 08	5 <i>w</i>	24217. 53	$a^5P_3-y^3F_4$	4097. 89	20 <i>WH</i>	24395. 94	$\left\{ \begin{array}{l} a^3F_4-w^3G_4 \\ z^7P_3-g^7D_2 \end{array} \right.$
4127. 639	40	24220. 12	$a^5P_1-y^3D_1$	4097. 69	2 <i>w</i>	24397. 13	$z^7P_3-g^7D_3$
4127. 297	40	24222. 13	$\left\{ \begin{array}{l} b^3F_4-t^3F_4 \\ a^5G_5-y^3G_6 \end{array} \right.$	4096. 04	2 <i>w</i>	24406. 96	
4126. 920	30	24224. 34	$\left\{ \begin{array}{l} a^5P_1-w^5D_6 \\ a^1H_5-r^3H_4 \end{array} \right.$	4094. 963	15	24413. 38	$\left\{ \begin{array}{l} a^3F_3-w^3G_3 \\ a^3G_4-x^3D_3 \end{array} \right.$
4126. 513	75, <i>Z</i>	24226. 73	$a^5G_6-y^3G_6$	4094. 62	3	24415. 43	$\left\{ \begin{array}{l} a^3G_5-w^3G_4 \\ b^3G_3-t^3D_3 \end{array} \right.$
4126. 092	25	24229. 20	$a^5P_2-y^3D_1$	4093. 31	7 <i>h</i>	24423. 24	$b^3D_2-v^3D_3$
4125. 56	10 <i>w</i>	24232. 32	$a^3H_5-y^3H_4$	4093. 059	18	24424. 74	$b^3D_1-u^3F_3$
4125. 44	15 <i>w, Z</i>	24232. 93	$\left\{ \begin{array}{l} b^5D_4-x^3G_3 \\ c^3D_3-s^3F_4 \end{array} \right.$	4092. 178	30, <i>Z</i>	24430. 00	$\left\{ \begin{array}{l} a^3F_2-w^3G_3 \\ d^3F_4-s^3H_5 \end{array} \right.$
4124. 57	3 <i>w</i>	24238. 14	$a^3P_2-x^3P_1$	4090. 47	10	24440. 20	$a^3F_4-w^3G_3$
4124. 35	2 <i>w</i>	24239. 44	$\left\{ \begin{array}{l} z^5F_3-e^3D_3 \\ z^5P_2-h^5S_2 \end{array} \right.$	4090. 35	7	24440. 91	
4123. 85	2 <i>w</i>	24242. 37		4090. 305	30, <i>Z</i>	24441. 18	$a^5P_1-w^5D_1$
4123. 386	50, <i>Z</i>	24245. 10	$a^3H_6-y^3H_6$	4090. 07	8 <i>hs</i>	24442. 59	$\left\{ \begin{array}{l} b^3D_2-v^3D_3 \\ a^3F_4-x^3F_4 \end{array} \right.$
4122. 87	4 <i>h</i>	24248. 13	$\left\{ \begin{array}{l} z^5P_3-h^5S_2 \\ b^3G_5-t^3D_4 \end{array} \right.$	4089. 627	12	24445. 23	$\left\{ \begin{array}{l} c^3F_2-g^3F_3 \\ b^3D_2-u^3F_3 \end{array} \right.$
4122. 164	25, <i>Z</i>	24252. 28	$a^5P_1-y^3D_2$	4088. 766	12	24450. 39	$a^5P_2-w^5D_1$
4121. 815	45, <i>Z</i>	24254. 34	$a^3H_5-y^3H_5$	4087. 90	1	24455. 56	$b^3H_4-q^3F_3$
4121. 487	7 <i>w</i>	24256. 27	$c^3D_1-s^3F_2$	4087. 58	1	24457. 47	
4121. 261	30, <i>Z</i>	24257. 60		4086. 941	15	24461. 30	$a^3I_5-y^3I_6$
4120. 621	50	24261. 37	$a^5P_2-y^3D_2$	4086. 05	6	24466. 63	$a^3F_3-w^3G_4$
4120. 11	4 <i>w</i>	24264. 38	$a^3F_3-w^3G_3$	4085. 932	15	24467. 34	$a^3I_6-y^3I_6$
4119. 69	6 <i>w</i>	24266. 85	$c^3D_2-s^3F_3$	4085. 71	6	24468. 67	$a^3I_7-y^3I_6$
4119. 54	1	24267. 73	$c^3D_3-s^3F_3$	4085. 03	25	24472. 74	$a^3F_4-x^3F_3$
4119. 42	6	24268. 44	$a^5P_3-y^3D_2$	4084. 30	3	24477. 11	$a^3G_3-x^3D_3$
4118. 99	4 <i>whl</i>	24270. 97		4083. 43	3	24482. 33	
4118. 05	4	24276. 51	$a^3F_4-w^3G_4$	4083. 32	10	24482. 99	$b^3H_5-q^3F_4$
4116. 52	2 <i>hl</i>	24285. 54		4081. 896	22	24491. 54	
4116. 46	4 <i>w</i>	24285. 89		4081. 738	35	24492. 48	$a^5P_1-w^5D_2$
4115. 32	15 <i>w</i>	24292. 62	$\left\{ \begin{array}{l} d^3F_4-s^3H_4 \\ a^1H_5-r^3H_5 \end{array} \right.$	4080. 564	10	24499. 53	$a^3G_5-w^3G_5$
4111. 60	4 <i>w</i>	24314. 60	$z^7P_3-g^7D_2$	4080. 229	40	24501. 54	$a^5P_2-w^5D_3$
4111. 33	4 <i>w</i>	24316. 19	$z^7P_3-g^7D_3$	4079. 70	3 <i>w</i>	24504. 71	$c^3F_4-q^3F_4$
4110. 95	15 <i>w</i>	24318. 24	$\left\{ \begin{array}{l} z^7P_3-g^7D_4 \\ d^3F_3-s^3H_4 \end{array} \right.$	4079. 04	3	24508. 68	$a^5P_3-w^5D_3$
4109. 95	3 <i>w</i>	24324. 36	$\left\{ \begin{array}{l} a^3H_4-t^3F_3 \\ b^3D_2-u^3F_3 \end{array} \right.$	4078. 475	4	24512. 07	$c^3F_3-q^3F_3$
4109. 58	40	24326. 55	$a^5P_2-y^3D_3$	4078. 095	2	24514. 36	$\left\{ \begin{array}{l} a^3F_3-x^3F_4 \\ a^5F_5-u^3H_6 \end{array} \right.$
4108. 396	25	24333. 56	$a^5P_3-y^3D_3$	4077. 679	60, <i>Z</i>	24516. 86	$b^3F_2-t^3G_3$
4106. 69	4	24343. 66	$b^3D_3-u^3F_3$	4077. 467	10	24518. 14	$c^3F_2-g^3F_3$
4106. 033	20	24347. 54	$a^3F_3-w^3G_4$	4077. 089	60, <i>Z</i>	24520. 41	$a^5P_2-w^5D_3$
4104. 864	50, <i>Z</i>	24354. 50	$\left\{ \begin{array}{l} a^3H_4-y^3H_4 \\ a^5G_3-v^3P_2 \end{array} \right.$	4076. 071	60, <i>Z</i>	24526. 47	$\left\{ \begin{array}{l} b^3F_3-t^3G_4 \\ a^3F_2-w^3G_2 \end{array} \right.$
4104. 29	4 <i>w</i>	24357. 90	$\left\{ \begin{array}{l} c^3D_3-r^3D_4 \\ a^5G_2-v^3P_2 \end{array} \right.$	4075. 921	15	24527. 43	$a^5P_3-w^5D_3$
4103. 835	30, <i>Z</i>	24360. 60	$\left\{ \begin{array}{l} a^3F_4-w^3G_5 \\ a^3F_3-w^3G_5 \end{array} \right.$	4074. 857	50, <i>Z</i>	24533. 84	$b^3H_6-s^3G_5$
4103. 02	4	24365. 44	$\left\{ \begin{array}{l} a^3P_2-x^3P_2 \\ a^1H_5-r^3H_6 \end{array} \right.$	4074. 52	1	24535. 86	$a^3F_2-y^3S_1$
4102. 22	3	24370. 19	$a^3F_2-x^3D_3$	4074. 35	3	24536. 89	$a^3G_3-w^3G_3$
4101. 163	35	24376. 48	$a^3H_4-y^3H_5$	4073. 32	6	24543. 09	$\left\{ \begin{array}{l} b^3H_5-v^3I_3 \\ a^3P_2-1_3 \end{array} \right.$
				4072. 767	25	24546. 43	$a^3F_3-x^3F_2$
				4072. 25	3 <i>w</i>	24549. 54	
				4071. 10	1	24556. 48	$a^3G_4-w^3G_4$
				4070. 991	30	24557. 14	$b^3H_4-v^3I_3$
				4070. 065	8	24562. 72	$b^5D_0-x^3D_1$

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d, Double; *h*, hazy; *H*, very hazy; *l*, shaded longward; *s*, shaded shortward; *r*, reversed; *R*, strongly reversed; *w*, wide; *W*, very wide; *Z*, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
4069. 68	3 <i>w</i>	24565. 04	$c^3F_4-v^3I_5^2$	4038. 22	2	24756. 42	
4069. 35	2 <i>w</i>	24567. 04		4037. 621	20	24760. 09	
4069. 01	5 <i>w</i>	24569. 09		4037. 293	50	24762. 10	$\left\{ \begin{array}{l} a^5G_5-x^5F_4^2 \\ a^5G_4-x^5F_4^2 \end{array} \right.$
4068. 70	5 <i>w</i>	24570. 96	$d^3F_3-r^3G_4^2$	4036. 81	6	24765. 06	$a^5G_3-x^5F_4^2$
4068. 41	15	24572. 71		4035. 88	2	24770. 77	$c^3G_3-q^3G_4^2$
4068. 03	3 <i>h</i>	24575. 01		4035. 21	10	24774. 88	$b^3G_5-y^3I_5^2$
4067. 829	30, <i>Z</i>	24576. 22		4035. 076	8	24775. 81	
4067. 63	1	24577. 42		4033. 965	10	24782. 53	$a^5G_5-x^5F_5^2$
4067. 346	10	24579. 14	$\left\{ \begin{array}{l} a^3G_5-w^5G_5^2 \\ a^3F_2-w^5G_5^2 \end{array} \right.$	4033. 94	8	24782. 68	$a^5G_4-x^5F_5^2$
4066. 928	70, <i>Z</i>	24581. 67	$\left\{ \begin{array}{l} a^5P_3-w^5D_4^2 \\ a^3G_5-x^3F_4^2 \end{array} \right.$	4033. 267	25	24786. 82	$\left\{ \begin{array}{l} a^5G_6-x^5F_5^2 \\ a^3G_3-x^3F_4^2 \end{array} \right.$
4066. 610	8	24583. 59	$\left\{ \begin{array}{l} b^3H_5-s^3G_5^2 \\ d^3F_4-r^3G_5^2 \end{array} \right.$	4032. 63	5	24790. 73	$a^5F_3-v^5G_5^2$
4065. 714	50, <i>Z</i>	24589. 01	$\left\{ \begin{array}{l} b^3F_4-t^3G_5^2 \\ a^5G_4-v^5P_3^2 \end{array} \right.$	4032. 18	2 <i>w</i>	24793. 50	$\left\{ \begin{array}{l} c^3D_3-t^3H_4^2 \\ c^3G_4-q^3G_5^2 \end{array} \right.$
4064. 94	5	24593. 69	$b^3H_6-v^3I_6^2$	4031. 125	25	24799. 99	$a^5F_2-v^5G_5^2$
4064. 582	30	24595. 85	$a^5G_2-v^5P_3^2$	4030. 69	40	24802. 66	$a^5F_1-v^5G_5^2$
4063. 08	10	24604. 94	$c^3F_4-s^3G_5^2$	4028. 467	10	24816. 35	$\left\{ \begin{array}{l} a^3G_3-x^3F_3^2 \\ c^3F_3-s^3D_2^2 \end{array} \right.$
4062. 84	2 <i>w</i>	24606. 40	$a^1H_5-q^3H_5^2$	4028. 09	10	24818. 67	$c^3D_1-u^3D_1^2$
4061. 74	3 <i>w</i>	24613. 06		4028. 04	10	24818. 98	$\left\{ \begin{array}{l} a^3G_3-x^3F_3^2 \\ a^3P_1-x^3P_1^2 \end{array} \right.$
4060. 646	45, <i>Z</i>	24619. 69	$\left\{ \begin{array}{l} b^3H_5-s^3G_4^2 \\ a^3G_3-w^3G_4^2 \end{array} \right.$	4027. 84	3	24820. 22	$a^5P_1-w^5F_3^2$
4059. 093	7	24629. 11		4027. 61	2	24821. 63	$a^5P_1-w^5F_3^2$
4058. 778	70, <i>Z</i>	24631. 02	$a^3I_5-x^3I_5^2$	4027. 102	55	24824. 76	$a^5G_5-z^3H_5^2$
4057. 83	18, <i>Z</i>	24636. 78	$a^3I_6-x^3I_5^2$	4026. 174	60	24830. 48	$\left\{ \begin{array}{l} a^5G_5-z^3H_5^2 \\ a^5G_4-z^3H_5^2 \end{array} \right.$
4057. 214	15, <i>Z</i>	24640. 52	$a^3G_4-w^3G_5^2$	4025. 95	6	24831. 86	$a^5F_4-v^5G_3^2$
4057. 126	10	24641. 05	$c^3F_4-s^3G_4^2$	4025. 605	10	24833. 99	
4056. 785	35, <i>Z</i>	24643. 12	$b^3H_5-v^3I_6^2$	4025. 447	25	24834. 97	$\left\{ \begin{array}{l} a^5G_5-z^3H_4^2 \\ a^5G_4-z^3H_4^2 \end{array} \right.$
4056. 047	50, <i>Z</i>	24647. 61	$b^3H_4-s^3G_3^2$	4025. 013	50, <i>Z</i>	24837. 65	$a^5G_3-z^3H_4^2$
4054. 80	3	24655. 19	$c^3F_4-s^3G_3^2$	4024. 564	20	24840. 42	$a^5P_2-w^5F_3^2$
4051. 319	50, <i>Z</i>	24676. 37		4024. 03	1	24843. 71	$b^3G_5-y^3I_6^2$
4050. 81	5	24679. 47		4023. 74	40	24845. 50	$a^5F_3-v^5G_3^2$
4050. 026	30	24684. 25	$\left\{ \begin{array}{l} a^5G_2-x^5F_1^2 \\ a^3I_5-x^3I_6^2 \end{array} \right.$	4023. 43	10	24847. 42	$a^5P_3-w^5F_3^2$
4049. 779	40	24685. 76	$\left\{ \begin{array}{l} a^3G_3-w^5G_3^2 \end{array} \right.$	4022. 57	2	24852. 73	$a^3H_4-x^3G_3^2$
4049. 083	15, <i>Z</i>	24690. 00	$c^3F_3-s^3G_4^2$	4022. 27	50, <i>Z</i>	24854. 58	$a^5F_2-v^5G_3^2$
4048. 784	60, <i>Z</i>	24691. 82	$a^3I_6-x^3I_5^2$	4021. 385	12	24860. 05	$\left\{ \begin{array}{l} a^3I_7-u^3H_5^2 \\ a^3I_5-u^3H_4^2 \end{array} \right.$
4046. 758	35	24704. 19	$a^5G_3-x^5F_3^2$	4019. 80	5 <i>h</i>	24869. 86	$c^3F_2-s^3D_1^2$
4046. 187	15	24707. 67	$a^5G_2-x^5F_3^2$	4018. 216	35, <i>Z</i>	24879. 66	$a^5P_3-w^5F_3^2$
4045. 75	5, Fe ?	24710. 34	$c^3F_2-s^3G_3^2$	4017. 72	1 <i>w</i>	24882. 73	
4045. 61	3 <i>l</i>	24711. 20		4017. 37	3 <i>w</i>	24884. 90	
4045. 47	3	24712. 05	$\left\{ \begin{array}{l} a^3F_2-x^3F_3^2 \\ y^5P_2-e^5F_1^2 \end{array} \right.$	4016. 824	30	24888. 28	$b^3G_4-y^3I_5^2$
4045. 12	3 <i>w</i>	24714. 19	$\left\{ \begin{array}{l} a^3P_1-x^3P_0^2 \\ a^3P_0-u^5F_1^2 \end{array} \right.$	4016. 60	3	24889. 67	$a^3I_5-y^1H_5^2$
4044. 152	20	24720. 10	$a^3G_4-w^5G_5^2$	4016. 26	3 <i>h</i>	24891. 77	$y^5P_2-e^5F_3^2$
4043. 684	50	24722. 97	$\left\{ \begin{array}{l} b^3H_6-v^3I_7^2 \\ a^3G_4-x^3F_4^2 \end{array} \right.$	4015. 752	4	24894. 92	
4042. 92	3	24727. 64	$b^5D_2-x^3D_2^2$	4014. 673	40	24901. 62	$a^5F_4-v^5G_4^2$
4042. 246	40	24731. 76	$a^5G_4-x^5F_3^2$	4014. 44	5	24903. 06	$b^3G_5-2_1^2$
4041. 795	22	24734. 52	$a^5G_3-x^5F_3^2$	4012. 48	50, <i>Z</i>	24915. 22	$a^5F_3-v^5G_4^2$
4041. 04	10	24739. 14	$a^3G_3-w^5G_4^2$	4012. 00	2 <i>ws</i>	24918. 20	
4040. 753	12	24740. 90	$b^5D_1-x^3D_2^2$	4010. 983	10	24924. 52	$c^3D_2-u^3D_3^2$
4039. 58	4	24748. 08	$y^5P_3-e^5F_4^2$	4010. 836	8	24925. 44	$c^3D_3-u^3D_3^2$
4039. 294	20	24749. 84	$a^3I_6-x^3I_7^2$	4009. 411	4	24934. 30	$a^3P_2-x^3D_2^2$
4039. 098	60, <i>Z</i>	24751. 04	$a^3I_7-x^3I_7^2$	4007. 43	1	24946. 62	$a^3P_1-x^3P_2^2$
4038. 832	15	24752. 66	$\left\{ \begin{array}{l} a^3G_4-x^3F_3^2 \\ c^3F_4-s^3D_3^2 \end{array} \right.$	4004. 697	12	24963. 65	$c^3D_1-t^3D_1^2$
4038. 63	3 <i>s</i>	24753. 90		4003. 916	30	24968. 52	$\left\{ \begin{array}{l} a^5F_5-v^5G_5^2 \\ d^3F_2-t^3P_1^2 \end{array} \right.$

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d, Double; *h*, hazy; *H*, very hazy; *l*, shaded longward; *s*, shaded shortward; *r*, reversed; *R*, strongly reversed; *w*, wide; *W*, very wide; *Z*, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
4001.443	75, <i>Z</i>	24983.95	$a^5F_4 - v^5G_3^5$	3972.35	2	25166.92	$b^5D_2 - w^5G_3^5$
4000.96	3 <i>ws</i>	24986.96	$b^3H_5 - s^3H_4^4$	3971.266	75	25173.79	$a^5P_2 - u^5P_1^4$
4000.60	20	24989.21	$c^3D_3 - t^3D_3^3$	3970.73	4 <i>w</i>	25177.19	$b^5D_2 - y^3S_1^4$
3999.938	7	24993.35		3970.39	3 <i>w</i>	25179.34	$b^3F_4 - r^5D_1^4$
3999.679	40, <i>Z</i>	24994.97		3970.06	30	25181.44	$b^5D_1 - w^5G_3^5$
							$b^3G_4 - x^3H_5^5$
3998.861	30	25000.08	$b^3H_4 - s^3H_4^4$	3969.748	150 <i>R</i>	25183.42	$a^5G_3 - y^5H_6^6$
3997.92	3	25005.96	$c^3F_3 - p^3F_3^3$	3969.064	60	25187.76	$a^5G_6 - y^5H_6^6$
3997.76	2 <i>w</i>	25006.97	$a^5P_3 - z^3G_3^3$	3968.64	6	25190.45	$a^5P_1 - x^5G_3^5$
3997.113	18	25011.01	$b^5D_3 - x^3D_3^3$	3967.34	4 <i>w</i>	25198.70	$b^5D_1 - y^3S_1^4$
3996.84	3 <i>w</i>	25012.72	$b^5D_2 - x^3D_3^3$	3967.16	5	25199.85	$a^5P_2 - x^5G_3^5$
			$b^1I_6 - t^3H_5^5$				$b^5D_0 - y^3S_1^4$
3996.277	8	25016.25	$b^3G_4 - 2i_4^4$	3967.03	3	25200.67	$a^5P_2 - y^3G_3^3$
3994.317	6	25028.52	$b^5D_4 - x^3D_3^3$	3965.94	1	25207.60	$b^3H_4 - r^3G_3^3$
3993.97	50	25030.70	$a^5P_2 - u^5P_3^5$				$a^5P_3 - y^3G_3^3$
3992.846	100, <i>Z</i>	25037.74	$a^5P_3 - u^5P_3^5$	3965.82	1	25208.36	$c^5D_2 - o^5F_2^5$
3992.104	18	25042.39	$a^5G_4 - y^5H_3^3$	3965.10	1	25212.94	
				3964.91	3	25214.15	$a^5P_3 - y^3G_4^4$
3991.677	50	25045.08	$a^5G_3 - y^5H_3^3$				$a^5G_3 - y^3P_2^3$
3991.118	25	25048.58	$a^5G_2 - y^5H_3^3$	3964.65	3	25215.80	$b^5D_3 - w^5G_3^5$
3990.16	10 <i>w</i>	25054.60	$b^3F_4 - s^3F_4^4$	3964.352	12	25217.70	$a^5G_2 - y^3P_2^3$
3989.984	75, <i>Z</i>	25055.70	$a^5F_5 - v^5G_6^6$				$a^3P_2 - x^3D_2^2$
3989.77	5 <i>w</i>	25057.04	$c^5D_2 - s^3D_3^3$	3963.99	3	25220.00	$b^5D_2 - w^5G_3^5$
			$c^3F_3 - s^3H_4^4$	3963.694	200 <i>R</i>	25221.89	$y^5P_3 - e^3D_1^3$
3988.65	6 <i>w</i>	25064.08	$a^5P_3 - z^3G_4^4$	3962.80	1 <i>l</i>	25227.57	$a^5G_6 - y^5H_7^7$
3988.43	5 <i>w</i>	25065.46	$c^5D_1 - o^5F_7^7$				$a^5F_3 - v^3P_2^3$
3985.03	1 <i>W</i>	25086.85	$y^5P_2 - g^5D_1^1$	3962.189	12	25231.47	$b^3H_6 - r^3G_5^5$
3984.65	1	25089.24	$a^3F_4 - w^3D_3^3$	3960.768	25	25240.52	$a^5P_1 - z^3S_1^4$
			$b^3F_4 - s^3F_3^3$	3959.14	1	25250.89	$y^5P_1 - g^5D_1^1$
			$a^7S_3 - z^7F_2^2$	3958.41	10	25255.55	$b^5D_4 - w^5G_5^5$
3984.339	75	25091.19	$a^5G_5 - y^5H_4^4$	3958.084	30, <i>Z</i>	25257.63	$b^3H_6 - s^3H_6^6$
			$a^5G_4 - y^5H_4^4$				
3983.901	125 <i>r</i>	25093.95	$a^5G_3 - y^5H_4^4$	3957.62	1 <i>l</i>	25260.59	$b^3G_4 - x^3H_4^4$
3983.236	25	25098.14	$c^3F_4 - p^3F_4^4$	3956.304	30	25268.99	$c^3F_4 - r^3G_4^4$
3982.613	7	25102.07	$b^3G_5 - x^3H_5^5$	3956.075	10	25270.45	$b^5D_3 - w^5G_4^4$
3981.93	20	25106.38	$b^3F_3 - s^3F_2^2$	3954.94	2 <i>l</i>	25277.70	$c^3F_2 - r^3G_3^3$
3981.242	100	25110.71	$a^5P_1 - u^5P_2^2$				$b^3H_5 - r^3G_5^5$
				3954.59	3 <i>wh</i>	25279.94	$a^5P_2 - x^5G_3^5$
3980.70	2 <i>W</i>	25114.13	$c^5D_3 - s^3D_3^3$	3953.83	2	25284.80	$c^5D_3 - o^5F_2^2$
3979.80	50, <i>Z</i>	25119.81	$a^5P_2 - u^5P_2^2$	3953.17	25 <i>w</i>	25289.02	$a^5P_3 - x^5G_3^5$
3979.33	25	25122.78	$b^3F_2 - s^3F_2^2$	3952.398	40 <i>w</i>	25293.96	$b^5D_2 - t^5P_1^1$
3979.22	20	25123.47	$b^3G_3 - 2i_4^4$	3951.767	20 <i>w</i>	25298.00	$b^5D_3 - t^5P_2^2$
			$b^3H_5 - s^3H_5^5$	3951.094	35 <i>w</i>	25302.31	$b^5D_2 - t^5P_2^2$
3978.683	75	25126.86	$d^3F_3 - t^3P_2^2$	3950.32	5	25307.27	$c^3F_4 - r^3G_5^5$
			$a^5P_3 - u^5P_2^2$	3949.655	20 <i>w</i>	25311.53	$b^5D_1 - t^5P_1^1$
3978.22	2 <i>w</i>	25129.79		3949.60	25 <i>w</i>	25311.88	$b^5D_0 - t^5P_1^1$
3976.674	200 <i>R</i>	25139.56	$a^5G_5 - y^5H_3^3$	3948.862	35	25316.61	$b^5D_3 - x^3F_4^4$
3976.308	18	25141.87	$a^5G_4 - y^5H_3^3$	3947.86	5	25323.04	
3976.018	20	25143.70	$b^3F_3 - s^3F_3^3$	3947.12	5	25327.78	$a^3P_1 - x^3D_1^1$
3975.56	2	25146.60	$a^5G_6 - y^5H_3^3$	3946.44	1 <i>h</i>	25332.15	$c^5D_2 - o^5F_3^3$
			$b^3G_5 - x^3H_4^4$	3945.967	45	25335.19	$b^5D_4 - w^5G_5^5$
			$c^3F_3 - p^3F_4^4$	3945.50	40	25338.18	$b^5D_4 - x^3F_4^4$
3975.03	2 <i>w</i>	25149.95	$y^5P_3 - e^3D_2^2$	3944.90	2 <i>w</i>	25342.04	$a^3H_6 - w^3G_5^5$
			$b^5D_3 - w^3G_4^4$				
3974.70	3 <i>w</i>	25152.04		3944.25	20	25346.22	$b^5D_3 - x^3F_3^3$
3973.76	2	25157.99	$a^3F_3 - w^3D_3^3$	3943.618	20	25350.28	$b^5D_2 - x^3F_3^3$
			$b^3F_2 - s^3F_2^2$	3943.221	15	25352.83	$b^5D_2 - x^3F_2^2$
3973.08	5 <i>h</i>	25162.30	$b^5D_3 - w^3G_3^3$	3942.82	2 <i>h</i>	25355.41	$b^3G_5 - r^5F_5^5$
			$c^5D_1 - o^5F_2^2$	3941.499	90 <i>r</i> , <i>Z</i>	25363.90	$a^5D_4 - z^5D_3^3$
3972.694	50	25164.75	$a^5P_1 - u^5P_1^4$				

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d, Double; *h*, hazy; *H*, very hazy; *l*, shaded longward; *s*, shaded shortward; *r*, reversed; *R*, strongly reversed; *w*, wide; *W*, very wide; *Z*, Zeeman pattern in table 2

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
3941. 163	22	25366. 07	$b^5D_1-x^3F_2^o$	3917. 20	3	25521. 24	$b^5D_2-y^5S_2^o$
			$b^3G_3-x^3H_4^o$	3916. 986	35	25522. 63	
3940. 90	8	25367. 76	$a^5F_2-v^3P_1^o$	3916. 25	100, <i>Z</i>	25527. 43	
			$b^5D_4-x^3F_2^o$	3915. 854	100, <i>Z</i>	25530. 01	$b^5D_4-t^5P_3^o$
3940. 54	3	25370. 08	$b^3G_4-r^3F_3^o$	3915. 514	25	25532. 23	
3940. 245	7 <i>w</i>	25371. 98	$a^5F_1-v^3P_1^o$				
3940. 00	1	25373. 55	$d^3F_2-q^3G_3^o$	3915. 203	4	25534. 26	$a^5G_3-y^3F_4^o$
			$a^3P_2-w^5G_4^o$	3914. 948	7 <i>w</i>	25535. 91	
3939. 81	3 <i>w</i>	25374. 78	$y^7P_3-h^7D_2$	3914. 70	1 <i>w</i>	25537. 54	
3939. 302	10 <i>w</i>	25378. 05	$d^3F_3-q^3G_3^o$	3914. 35	40	25539. 82	$b^5D_1-z^5D_0^o$
3938. 98	2	25380. 13	$y^5P_3-e^3D_3$	3913. 90	1 <i>w</i>	25542. 76	$a^5G_3-y^3F_4^o$
			$a^3F_4-u^5D_4^o$				
3938. 352	25 <i>w</i>	25384. 17	$y^5P_1-e^3D_1$	3912. 79	2 <i>h</i>	25550. 00	$z^7D_3-h^7D_4$
			$a^3P_2-y^3S_1^o$	3912. 36	4	25552. 80	
			$y^5P_3-g^5D_4$	3912. 01	7 <i>w</i> , <i>Z</i>	25555. 10	
3937. 45	6 <i>h</i>	25389. 99	$a^1H_5-p^3H_5^o$	3911. 83	50 <i>wh</i>	25556. 27	$c^5D_3-o^5F_4$
			$y^5P_3-e^3D_2$	3911. 04	7 <i>w</i>	25561. 43	$y^7P_2-h^7D_3$
3936. 24	7 <i>hl</i>	25397. 79	$a^3H_5-w^3G_4^o$	3911. 04	7 <i>w</i>	25561. 43	$a^3H_5-w^5G_5^o$
			$y^5P_1-g^5D_2$				
3936. 115	20	25398. 60	$d^3F_4-q^3G_4^o$	3910. 724	12, <i>Z</i>	25563. 50	$b^3D_2-v^3P_3^o$
3935. 55	8 <i>w</i>	25402. 24	$y^5P_3-g^5D_3$	3910. 56	2	25564. 57	$a^3H_5-x^3F_4^o$
3934. 03	2 <i>h</i>	25412. 06		3909. 98	2 <i>w</i>	25568. 36	$z^7D_3-e^7G_5$
3933. 20	4	25417. 42	$a^3H_6-w^5G_5^o$	3908. 762	150 <i>r</i> , <i>Z</i>	25576. 33	$a^5D_3-z^5D_3^o$
				3907. 777	30,	25582. 77	$b^3D_3-v^3P_2^o$
3933. 11	4 <i>ws</i>	25418. 00					
3932. 77	4	25420. 20		3907. 26	20 <i>w</i> , <i>Z</i>	25586. 06	$a^3H_4-w^5G_3^o$
3932. 48	3 <i>w</i>	25422. 07	$c^3D_2-r^3F_2^o$				
3932. 01	1	25425. 11	$c^5D_0-r^5P_1^o$	3906. 94	3 <i>w</i>	25588. 26	
3931. 17	2 <i>w</i>	25430. 54	$a^3G_3-w^3D_3^o$	3906. 45	3	25591. 46	$a^5G_3-y^3D_3^o$
				3904. 407	5	25604. 86	$a^5G_2-y^3D_3^o$
3930. 27	2, <i>Z</i>	25436. 37	$a^3H_4-w^3G_3^o$	3904. 006	10	25607. 49	$a^1H_6-t^3G_5^o$
			$b^3G_3-r^5F_2^o$				$a^3F_4-u^3G_3^o$
3929. 66	20 <i>wh</i>	25440. 32	$y^7P_4-h^7D_4$	3903. 171	50, <i>Z</i>	25612. 96	$a^5D_1-z^5D_1^o$
3928. 647	100 <i>r</i> , <i>Z</i>	25446. 88	$a^5D_3-z^5D_3^o$	3902. 911	125, <i>Z</i>	25614. 67	$a^5D_2-z^5D_2^o$
3928. 16	5	25450. 03	$a^5F_1-v^3P_0^o$	3902. 26	10	25618. 94	
3927. 96	2	25451. 33	$a^3F_3-u^5D_4^o$	3902. 00	75	25620. 65	
			$c^3D_1-r^3F_2^o$	3900. 95	2 <i>w</i>	25627. 55	
3926. 66	40, <i>Z</i>	25459. 75	$d^3F_4-q^3G_5^o$	3899. 23	4 <i>w</i>	25638. 85	
3926. 00	7 <i>whl</i>	25464. 03	$y^7P_3-h^7D_3$	3899. 20	4 <i>w</i>	25639. 05	$a^3H_4-w^5G_4^o$
3925. 65	5 <i>hs</i>	25466. 30	$y^7P_2-h^7D_2$	3899. 012	5	25640. 29	$a^5F_5-u^3G_4^o$
3924. 965	7	25470. 76		3898. 40	8 <i>w</i>	25644. 31	
3924. 90	2 <i>w</i>	25471. 17		3898. 29	2 <i>h</i>	25645. 03	
3924. 68	1 <i>w</i>	25472. 70	$z^7D_3-e^7G_4$	3897. 66	75, <i>Z</i>	25649. 18	
3924. 04	4	25476. 75	$a^5G_4-y^3F_3^o$	3897. 42	4	25650. 76	$a^5G_4-y^3D_3^o$
			$b^3G_3-r^5F_2^o$	3897. 008	5	25653. 47	$a^5G_3-y^3D_3^o$
3923. 66	4	25479. 22	$a^5G_3-y^3F_3^o$	3896. 67	10	25655. 70	$a^5F_4-u^3G_4^o$
3923. 345	20	25481. 27	$c^3D_2-r^3F_3^o$	3896. 48	5	25656. 94	$a^5G_2-y^3D_3^o$
3923. 26	3	25481. 82	$a^3H_5-w^3G_5^o$				
			$c^3D_3-r^3F_3^o$	3894. 89	1	25667. 42	$b^3F_3-t^3H_4^o$
				3894. 57	8 <i>h</i>	25669. 54	$a^5F_3-u^3G_4^o$
3922. 73	5 <i>ws</i>	25485. 26		3894. 039	100, <i>Z</i>	25673. 03	$c^3G_5-r^3H_6^o$
3922. 44	2 <i>w</i>	25487. 14	$y^7P_3-e^7F_1$	3893. 50	3	25676. 58	$a^5D_0-z^5D_1^o$
3922. 14	2 <i>h</i>	25489. 09	$c^5D_1-r^5P_2^o$	3893. 25	6 <i>w</i>	25678. 24	$a^3P_0-x^3D_1^o$
3921. 50	2 <i>h</i>	25493. 25	$c^5D_2-r^5P_1^o$				
3921. 031	100 <i>r</i> , <i>Z</i>	25496. 30	$a^5D_2-z^5D_1^o$				
				3893. 14	5 <i>h</i>	25678. 96	$z^7P_4-g^7S_3$
3920. 104	20	25502. 33		3892. 87	2	25680. 74	
3919. 165	200 <i>R</i> , <i>Z</i>	25508. 45	$b^5D_3-t^5P_3^o$	3891. 932	100 <i>w</i> , <i>Z</i>	25686. 93	$a^3H_4-x^3F_4^o$
			$a^5D_4-z^5D_3^o$				$z^7D_3-e^7G_6$
3918. 10	10	25515. 38	$a^3P_1-x^3D_2^o$				
3917. 85	3 <i>w</i>	25517. 00	$a^3H_5-w^5G_4^o$	3891. 06	7 <i>WH</i>	25692. 69	
3917. 608	75	25518. 58	$b^5D_3-y^5S_2^o$	3890. 826	20, <i>Z</i>	25694. 23	$b^3D_2-v^3P_1^o$

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d, Double; *h*, hazy; *H*, very hazy; *l*, shaded longward; *s*, shaded shortward; *r*, reversed; *R*, strongly reversed; *w*, wide; *W*, very wide; *Z*, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
3890. 72	8 <i>hs</i>	25694. 93	$\left\{ \begin{array}{l} a^5F_5-u^3G_5^3 \\ z^7D_3-h^7D_2 \end{array} \right.$	3872. 74	3 <i>w</i>	25814. 22	$b^3P_2-r^5F_2^3$
3890. 148	10 <i>w</i>	25698. 71		3871. 53	10 <i>h</i>	25822. 29	$a^5F_3-p^5F_3^3$
3889. 10	1 <i>h</i>	25705. 63	$y^7P_3-e^7F_4$	3870. 24	50 <i>WH</i>	25830. 90	$\left\{ \begin{array}{l} a^5S_2-z^5D_1^1 \\ a^5F_2-p^5F_3^3 \end{array} \right.$
3888. 39	1	25710. 32	$a^5F_4-u^3G_5^3$	3869. 21	4	25837. 77	
3888. 26	10	25711. 19	$b^3F_3-t^3D_2^3$	3868. 56	2	25842. 12	
3887. 08	15 <i>hl</i>	25718. 99	$b^5D_2-s^5F_1^1$				
3886. 80	50, <i>Z</i>	25720. 84	$a^5D_3-z^5D_4^1$	3868. 27	25	25844. 05	$\left\{ \begin{array}{l} a^5F_5-p^5F_4^3 \\ a^3F_3-w^3F_3^3 \end{array} \right.$
3886. 05	10 <i>hs</i>	25725. 81	$z^7D_4-h^7D_4$	3868. 21	7	25844. 45	$a^5G_4-w^5D_3^3$
3885. 24	100, <i>Z</i>	25731. 17	$a^5D_1-z^5D_2^3$	3867. 75	4 <i>w</i>	25847. 53	$\left\{ \begin{array}{l} a^5G_3-w^5D_3^3 \\ z^7D_1-e^7G_1 \end{array} \right.$
3885. 20	75, <i>Z</i>	25731. 43					
3885. 083	100 <i>w</i>	25732. 21	$\left\{ \begin{array}{l} b^5D_1-s^5F_1^1 \\ a^5F_2-u^3P_2^3 \end{array} \right.$	3866. 98	5 <i>wh</i>	25852. 67	
3884. 67	3 <i>w</i>	25734. 97	$\left\{ \begin{array}{l} a^5F_1-u^3P_2^3 \\ z^7D_4-e^7F_3^3 \end{array} \right.$	3865. 96	20 <i>wh</i>	25859. 49	$a^5F_4-p^5F_4^3$
3884. 45	10 <i>w</i>	25736. 41	$a^5F_3-p^5F_3^3$	3865. 03	4 <i>wh</i>	25865. 72	$a^5F_2-t^3F_3^3$
3883. 664	100 <i>W</i>	25741. 61	$\left\{ \begin{array}{l} b^5D_0-s^5F_1^1 \\ a^5F_2-p^5F_1^1 \end{array} \right.$	3863. 96	5 <i>h</i>	25872. 88	$\left\{ \begin{array}{l} a^5F_3-p^5F_4^3 \\ z^7P_2-g^7S_3 \end{array} \right.$
3883. 289	200 <i>W, Z</i>	25744. 10	$\left\{ \begin{array}{l} a^5D_2-z^5D_3^3 \\ a^5F_1-p^5F_1^1 \\ z^7D_1-e^7G_5 \end{array} \right.$	3863. 68	15 <i>wh</i>	25874. 75	$z^7D_3-h^7D_4$
3882. 67	4 <i>w</i>	25748. 20	$a^5F_1-p^5F_2^3$	3863. 50	10 <i>wh</i>	25875. 96	$z^7D_4-e^7F_4$
3881. 862	25	25753. 56	$\left\{ \begin{array}{l} b^3D_1-v^3P_0^3 \\ b^5D_3-s^5F_2^3 \end{array} \right.$	3862. 54	30, <i>Z</i>	25882. 38	$a^3F_4-w^3F_4^3$
3881. 23	50 <i>W</i>	25757. 76	$b^5D_2-s^5F_2^3$	3862. 26	3 <i>h</i>	25884. 27	$\left\{ \begin{array}{l} b^5D_2-w^3D_2^3 \\ z^7D_3-e^7F_3^3 \end{array} \right.$
3880. 35	10 <i>w</i>	25763. 60	$\left\{ \begin{array}{l} c^5D_4-r^3G_5^3 \\ a^5F_4-4_3^3 \end{array} \right.$	3861. 86	2 <i>h</i>	25886. 95	
3879. 231	50 <i>W, Z</i>	25771. 03	$\left\{ \begin{array}{l} b^5D_1-s^5F_2^3 \\ y^7P_4-e^7F_5 \end{array} \right.$	3860. 47	1	25896. 27	$z^7D_2-e^7F_2$
3878. 945	8	25772. 93	$\left\{ \begin{array}{l} a^3F_4-w^3F_3^3 \\ a^5P_1-v^5F_1^1 \end{array} \right.$	3860. 12	18	25898. 62	$\left\{ \begin{array}{l} a^5G_5-w^5D_4^1 \\ a^5G_4-w^5D_4^1 \end{array} \right.$
3878. 86	3	25773. 50	$a^5P_2-x^5H_3^3$	3858. 89	50 <i>W</i>	25906. 87	$b^5D_3-s^5F_4^3$
3878. 72	3 <i>w</i>	25774. 42	$a^5P_1-v^5F_2^3$				
3878. 30	10 <i>ws</i>	25777. 22	$\left\{ \begin{array}{l} a^5F_3-4_3^3 \\ a^5F_2-u^3P_1^1 \end{array} \right.$	3857. 63	100 <i>w, Z</i>	25915. 33	$\left\{ \begin{array}{l} z^7D_1-e^7F_1 \\ a^5P_1-v^5D_1^1 \end{array} \right.$
3877. 87	3	25780. 07	$a^5F_1-u^3P_1^1$	3856. 75	3 <i>w</i>	25921. 24	$a^5F_2-t^3F_3^3$
3877. 79	3 <i>w</i>	25780. 60	$\left\{ \begin{array}{l} a^5P_3-x^5H_3^3 \\ a^5G_2-w^5D_1^1 \end{array} \right.$	3856. 283	60	25924. 38	$a^5P_2-v^5D_1^1$
3877. 39	4 <i>h</i>	25783. 26	$z^7D_3-h^7D_3$	3855. 58	100	25929. 11	$\left\{ \begin{array}{l} a^5P_1-v^5D_2^3 \\ b^5D_4-s^5F_4^3 \end{array} \right.$
3877. 317	12	25783. 75	$\left\{ \begin{array}{l} a^5P_2-v^5F_3^3 \\ a^3F_3-w^3F_3^3 \end{array} \right.$	3855. 296	50, <i>Z</i>	25931. 02	$a^5P_1-v^5D_0^3$
3877. 104	10	25785. 16		3854. 80	50 <i>w</i>	25934. 36	$a^5F_5-p^5F_5^3$
3876. 88	5 <i>h</i>	25786. 65	$a^5F_2-4_3^3$	3854. 229	100, <i>Z</i>	25938. 20	$a^5P_2-v^5D_2^3$
3876. 60	4 <i>h</i>	25788. 52	$\left\{ \begin{array}{l} a^5P_2-v^5F_3^3 \\ b^3P_2-r^5F_1^1 \end{array} \right.$	3853. 188	50, <i>Z</i>	25945. 21	$a^5P_3-v^5D_2^3$
3876. 38	4 <i>h</i>	25789. 98	$a^5P_3-v^5F_2^3$	3852. 63	8 <i>w</i>	25948. 96	$a^5S_2-z^5D_2^3$
3876. 20	4 <i>h</i>	25791. 18	$z^7P_3-g^7S_3$	3852. 56	15	25949. 44	$\left\{ \begin{array}{l} a^3F_2-w^3F_2^3 \\ c^3G_5-q^3H_5^3 \end{array} \right.$
3876. 12	4 <i>w</i>	25791. 71		3852. 221	60, <i>Z</i>	25951. 72	$a^5F_4-p^5F_5^3$
3875. 54	2 <i>w</i>	25795. 57	$\left\{ \begin{array}{l} z^7D_2-e^7G_2 \\ a^5P_3-v^5F_3^3 \end{array} \right.$	3851. 96	10	25953. 48	$a^5D_1-z^3P_0^3$
3875. 23	50 <i>W</i>	25797. 64	$c^5D_4-o^5F_5^3$	3851. 29	5 <i>w</i>	25957. 99	$a^3F_3-w^3F_4^3$
3875. 14	15 <i>w</i>	25798. 24	$\left\{ \begin{array}{l} z^7D_3-e^7G_4 \\ a^5P_3-v^5F_4^3 \\ b^5D_3-s^5F_3^3 \end{array} \right.$	3850. 90	3 <i>h</i>	25960. 62	$b^5D_3-w^3D_3^3$
3874. 55	75 <i>W, Z</i>	25802. 16	$\left\{ \begin{array}{l} a^5F_1-u^3P_0^3 \\ b^5D_2-s^5F_3^3 \\ z^7D_3-h^7D_5 \end{array} \right.$	3850. 54	3 <i>h</i>	25963. 05	
3873. 58	7 <i>h</i>	25808. 63	$c^5D_4-r^5P_3^3$	3850. 26	5	25964. 94	$\left\{ \begin{array}{l} a^3P_1-y^3S_1^1 \\ b^5D_2-w^3D_3^3 \end{array} \right.$
3873. 07	4 <i>h</i>	25812. 02	$\left\{ \begin{array}{l} a^5F_4-p^5F_3^3 \\ z^7D_2-h^7D_2 \end{array} \right.$	3850. 029	200 <i>W</i>	25966. 50	$a^5P_2-v^5D_3^3$
				3849. 541	100 <i>W, Z</i>	25969. 79	$a^5D_2-z^3P_1^1$
				3849. 35	175 <i>W, Z</i>	25971. 07	$b^5D_4-s^5F_5^3$
				3848. 983	150 <i>W</i>	25973. 55	$\left\{ \begin{array}{l} a^5F_3-t^3F_1^1 \\ a^5P_3-v^5D_3^3 \end{array} \right.$
				3847. 77	4 <i>w</i>	25981. 74	$b^5D_4-w^3D_3^3$
				3847. 38	10 <i>WH</i>	25984. 37	
				3846. 41	1 <i>w</i>	25990. 92	
				3846. 18	1 <i>w</i>	25992. 48	
				3845. 47	1 <i>w</i>	25997. 28	

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d, Double; *h*, hazy; *H*, very hazy; *l*, shaded longward; *s*, shaded shortward; *r*, reversed; *R*, strongly reversed; *w*, wide; *W*, very wide; *Z*, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
3843.78	4	26008.71	$b^3F_4-u^3D_3$	3812.76	5 <i>w</i>	26220.31	$\left\{ \begin{array}{l} b^3G_4-v^3G_4 \\ a^3F_4-z^1H_5 \end{array} \right.$
3843.63	10	26009.72	$a^3F_2-w^3F_3$	3812.259	65, <i>Z</i>	26223.76	
3842.024	20 <i>W</i>	26020.60	$\left\{ \begin{array}{l} a^5P_1-u^5F_1 \\ a^3G_5-w^3F_4 \end{array} \right.$	3811.94	5	26225.95	$a^3G_3-w^3F_4$
3841.56	1 <i>H</i>	26023.74		3810.26	8 <i>wh</i>	26237.51	
3841.28	200 <i>W</i> , <i>Z</i>	26025.64	$\left\{ \begin{array}{l} a^5P_3-v^5D_4 \\ z^7D_3-e^7F_4 \end{array} \right.$	3809.487	25	26242.83	$b^1I_6-x^1H_5$
3840.69	8 <i>w</i>	26029.63	$a^5P_2-u^5F_1$	3807.924	60, <i>Z</i>	26253.60	$b^5D_3-u^5D_4$
3838.02	3 <i>h</i>	26047.74	$b^3D_1-p^5F_1$	3806.83	50, <i>Z</i>	26261.15	$b^3G_5-v^3G_5$
3837.88	5 <i>h</i>	26048.69		3806.558	18	26262.82	$a^5D_2-z^3P_2$
3837.76	2 <i>h</i>	26049.51		3805.91	2 <i>w</i>	26267.50	$b^3D_3-t^3F_3$
3837.42	2 <i>h</i>	26051.81	$b^3D_1-p^5F_2$	3804.801	150, <i>Z</i>	26275.15	$b^5D_4-u^5D_4$
3836.73	7 <i>WH</i>	26056.50	$\left\{ \begin{array}{l} a^3G_3-w^3F_2 \\ z^7D_4-e^7F_5 \end{array} \right.$	3803.02	8 <i>hl</i>	26287.46	
3836.08	60	26060.91	$a^5P_1-u^5F_2$	3802.22	7 <i>h</i>	26292.99	
3834.742	75	26070.01	$a^5P_2-u^5F_2$	3801.38	3 <i>h</i>	26298.80	
3833.708	10 <i>w</i>	26077.04	$a^5P_3-u^5F_2$	3801.19	10 <i>hl</i> , <i>Z</i>	26300.11	
3833.487	20 <i>w</i>	26078.55	$\left\{ \begin{array}{l} a^5S_2-z^5D_3 \\ b^3D_3-u^3P_2 \end{array} \right.$	3800.65	10 <i>hl</i>	26303.85	$\left\{ \begin{array}{l} b^3F_4-r^3F_3 \\ a^5S_2-z^3P_1 \end{array} \right.$
3833.16	8 <i>WH</i>	26080.77		3799.22	15 <i>w</i>	26313.75	$\left\{ \begin{array}{l} a^3P_0-y^3S_1 \\ a^3D_1-v^3F_2 \end{array} \right.$
3832.73	10 <i>wh</i>	26083.69	$b^3D_1-u^3P_1$	3797.714	100, <i>Z</i>	26324.19	$b^5D_3-u^5D_3$
3832.318	20	26086.50	$a^5D_1-z^3P_1$	3797.386	5	26326.46	$\left\{ \begin{array}{l} b^3D_3-t^3F_1 \\ a^5G_3-z^3G_3 \end{array} \right.$
3832.10	4 <i>wh</i>	26087.98		3797.138	75	26328.18	$b^5D_2-u^5D_3$
3831.56	7 <i>w</i>	26091.66	$\left\{ \begin{array}{l} b^3D_3-p^5F_2 \\ b^3H_5-q^3G_4 \end{array} \right.$	3796.977	12	26329.29	$a^5G_2-z^3G_3$
3831.032	35, <i>Z</i>	26095.25	$a^5D_3-z^3P_2$	3796.833	8	26330.29	$b^3G_3-v^3G_4$
3830.03	150 <i>H</i>	26102.08	$z^7D_5-e^7F_6$	3795.79	4 <i>w</i>	26337.52	
3829.714	8 <i>w</i>	26104.23	$\left\{ \begin{array}{l} b^3D_2-u^3P_1 \\ b^3H_6-q^3G_5 \end{array} \right.$	3794.613	50	26345.70	$b^5D_4-u^5D_3$
3829.50	8	26105.69	$\left\{ \begin{array}{l} b^3D_1-u^3P_0 \\ b^3H_4-q^3G_4 \end{array} \right.$	3793.872	65	26350.84	$b^5D_3-u^5D_2$
3828.48	15 <i>wh</i>	26112.64		3793.545	7	26353.11	$a^5P_1-t^5F_1$
3827.88	3	26116.74	$a^3G_3-w^3F_3$	3793.288	65	26354.90	$\left\{ \begin{array}{l} b^5D_2-u^5D_2 \\ a^5G_4-u^5P_3 \end{array} \right.$
3826.427	125	26126.66	$a^5P_2-u^5F_3$	3792.86	2 <i>w</i>	26357.87	$a^5G_3-u^5P_3$
3825.398	75	26133.68	$a^5P_3-u^5F_3$	3792.42	10 <i>w</i>	26360.93	$\left\{ \begin{array}{l} a^5G_2-u^5P_3 \\ a^5P_1-t^5F_2 \end{array} \right.$
3823.519	35, <i>Z</i>	26146.53	$a^5D_0-z^3P_1$	3792.142	70	26362.86	$b^5D_2-u^5D_1$
3822.84	3 <i>w</i>	26151.17		3791.384	70	26368.14	$b^5D_1-u^5D_2$
3822.096	15	26156.26	$a^5G_3-w^5F_2$	3791.12	7 <i>w</i>	26369.97	$\left\{ \begin{array}{l} a^5P_1-x^3P_0 \\ a^5P_2-t^5F_2 \end{array} \right.$
3821.586	25	26159.75	$a^5G_2-w^5F_2$	3790.461	60	26374.55	$b^3F_4-r^3F_4$
3821.39	4 <i>w</i>	26161.09	$a^5G_2-w^5F_1$	3790.225	35	26376.20	$b^5D_1-u^5D_0$
3821.21	10	26162.32	$a^3G_4-w^3F_4$	3789.719	40	26379.72	$b^3G_4-v^3G_5$
3820.872	30	26164.64	$a^5G_4-w^5F_3$	3789.50	5 <i>w</i>	26381.24	$\left\{ \begin{array}{l} a^5D_1-z^3P_2 \\ a^5G_5-z^3G_4 \\ a^5G_4-z^3G_4 \end{array} \right.$
3820.60	5 <i>w</i>	26166.50		3789.08	10	26384.16	$a^5G_3-z^3G_4$
3820.46	20, <i>Z</i>	26167.46	$a^5G_3-w^5F_3$	3788.858	50	26385.71	$b^5D_0-u^5D_1$
3819.97	35	26170.82	$a^5G_2-w^5F_3$	3788.06	8 <i>w</i>	26391.27	$\left\{ \begin{array}{l} c^3D_2-q^3F_3 \\ c^3D_3-q^3F_3 \end{array} \right.$
3819.88	3 <i>w</i>	26171.43	$a^3P_2-w^3D_3$	3786.217	40	26404.12	$a^5P_2-t^5F_3$
3819.57	100, <i>Z</i>	26173.57	$a^5P_3-u^5F_4$	3783.98	3	26419.72	$a^3D_2-v^3F_3$
3819.41	2	26174.65	$c^3F_4-q^3G_5$				
3818.92	4 <i>h</i>	26178.01		3783.702	8 <i>w</i>	26421.67	
3818.474	60	26181.07	$\left\{ \begin{array}{l} a^5G_5-w^5F_5 \\ a^5G_4-w^5F_5 \end{array} \right.$	3782.96	1	26426.85	
3818.25	3 <i>w</i>	26182.61		3780.99	6 <i>h</i>	26440.62	$b^3F_3-r^3F_4$
3817.846	40, <i>Z</i>	26185.37	$a^5G_6-w^5F_5$	3780.737	15 <i>w</i>	26442.39	
3817.65	2 <i>w</i>	26186.72		3780.12	8 <i>h</i>	26446.71	$a^5G_3-u^5P_2$
3816.189	60	26196.75	$\left\{ \begin{array}{l} a^5G_5-w^5F_4 \\ a^5G_4-w^5F_4 \end{array} \right.$	3779.994	8	26447.58	$a^5P_3-y^3H_4$
3815.438	75	26201.90	$a^5P_3-t^5F_4$	3777.92	8	26462.10	$a^5G_5-z^3G_5$
3814.626	50, <i>Z</i>	26207.58	$b^3G_3-v^3G_3$	3777.90	3	26462.24	$a^5G_4-z^3G_5$
3813.50	3 <i>w</i>	26215.22	$\left\{ \begin{array}{l} b^3G_3-v^3G_3 \\ a^1G_4-s^3F_3 \end{array} \right.$	7737.508	3	26464.99	$a^3D_3-v^3F_3$
				3777.316	25	26466.33	$a^5G_6-z^3G_5$

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d, Double; *h*, hazy; *H*, very hazy; *l*, shaded longward; *s*, shaded shortward; *r*, reversed; *R*, strongly reversed; *w*, wide; *W*, very wide; *Z*, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
3776. 76	4 <i>h</i>	26470. 23	$a^3D_2-v^3D_2$	3742. 97	30, <i>Z</i>	26709. 18	$a^5G_6-x^5G_5$
3776. 17	8 <i>wl</i>	26474. 37	$a^5P_1-x^3P_1$	3742. 43	2	26713. 04	
3774. 65	4 <i>ws</i>	26485. 03		3742. 05	7	26715. 75	$a^3D_3-u^3F_3$
3772. 01	2	26503. 54	$a^3G_4-z^1H_3$	3741. 99	4	26716. 18	
3768. 994	25	26524. 77	$a^5G_4-y^3G_3$	3740. 13	3	26729. 46	
3768. 733	50	26526. 61	$a^5G_3-x^5G_2$	3739. 81	3	26731. 76	$b^3G_3-q^5F_3$
3768. 60	20	26527. 54	$a^5G_3-y^3G_3$	3738. 95	3	26737. 90	
3768. 237	100	26530. 10	$a^5G_2-x^5G_2$	3736. 444	10	26755. 83	$b^5D_3-w^3F_4$
			$s^5G_5-y^3G_4$	3735. 23	2 <i>w</i>	26764. 53	$c^3G_5-p^3H_3$
			$a^5G_5-y^3G_3$	3735. 11	2 <i>w</i>	26765. 39	$b^1I_6-v^3I_6$
3768. 08	50 <i>w</i>	26531. 20	$a^5G_4-y^3G_3$				
			$a^5G_4-y^3G_4$	3734. 52	4	26769. 62	$a^5F_4-r^5D_3$
			$a^5G_4-y^3G_4$	3734. 254	3	26771. 52	$c^3D_1-s^3D_1$
3767. 433	45	26535. 76	$a^5G_2-y^3G_3$	3733. 85	10	26774. 42	$a^5F_5-s^3F_4$
			$a^5G_6-y^3G_5$	3733. 439	10	26777. 37	$b^5D_4-w^3F_4$
				3732. 98	1 <i>w</i>	26780. 67	
3766. 99	2	26538. 88	$d^3F_4-q^3H_3$	3732. 63	3 <i>w</i>	26783. 18	$a^5F_3-r^5D_3$
3766. 56	5	26541. 91		3732. 03	50	26787. 48	$a^7S_3-z^5P_3$
3766. 38	5	26543. 18		3731. 64	3 <i>w</i>	26790. 28	$a^5F_4-s^3F_4$
3765. 82	2	26547. 13		3730. 805	50	26796. 27	$a^7S_3-z^5P_3$
3765. 69	2	26548. 04	$b^3D_3-t^3G_3$	3729. 86	2 <i>w</i>	26803. 06	$a^5F_3-s^3F_4$
3764. 605	10 <i>w</i>	26555. 69		3729. 26	2 <i>w</i>	26807. 37	$a^5F_2-s^3F_2$
3763. 28	2	26565. 04	$d^3F_3-q^3H_3$	3728. 86	3	27810. 25	$a^5F_1-s^3F_2$
3762. 51	3 <i>w</i>	26570. 48	$a^3D_3-v^3F_4$	3728. 289	2	26814. 35	$a^3D_3-v^3D_3$
3761. 39	10	26578. 39	$b^3D_3-t^3G_4$	3726. 845	6	26824. 75	$a^5F_4-s^3F_3$
3760. 28	3	26586. 24	$b^5D_3-w^3F_2$	3725. 934	6 <i>w</i>	26831. 31	
3759. 49	3 <i>w</i>	26591. 82		3724. 93	3 <i>w</i>	26838. 54	$a^5F_3-s^3F_3$
3759. 24	6 <i>w</i>	26593. 59	$a^3P_1-w^3D_1$	3723. 69	3 <i>w</i>	26847. 47	$a^5F_2-s^3F_3$
3758. 713	6	26597. 32	$a^5S_2-z^3P_2$	3723. 496	8 <i>w</i>	26848. 87	
3758. 60	3	26598. 12		3722. 818	10	26853. 76	
3758. 043	50	26602. 06	$a^5G_4-x^5G_3$	3721. 825	2	26860. 93	
3757. 659	100	26604. 78	$a^5G_3-x^5G_3$	3719. 45	3 <i>w</i>	26878. 08	$b^3H_5-r^3H_4$
3757. 49	3	26605. 98	$a^5F_1-r^5D_6$	3718. 57	5	26884. 44	$c^3D_3-p^3F_3$
3757. 168	40	26608. 26	$a^5G_2-x^5G_3$	3718. 01	1 <i>w</i>	26888. 49	
3756. 81	2	26610. 79	$a^5P_2-x^3P_2$	3717. 76	6	26890. 30	$b^5D_1-w^3P_0$
3756. 50	4 <i>w</i>	26612. 99		3717. 63	3	26891. 23	
3755. 816	15	26617. 83	$a^5P_3-x^3P_2$	3717. 58	7	26891. 60	$b^3H_4-r^3H_4$
3754. 90	2	26624. 33		3716. 52	20 <i>w</i>	26899. 27	$c^3F_4-r^3H_4$
3753. 89	3	26631. 49	$b^5D_3-w^3F_3$	3714. 39	7 <i>w</i>	26914. 69	$a^5F_5-r^5D_4$
3752. 84	1 <i>w</i>	26638. 94	$b^5D_2-w^3F_3$	3712. 52	2	26928. 25	$a^5F_4-r^5D_4$
3752. 72	5 <i>w</i>	26639. 80	$a^5F_2-r^5D_1$	3711. 61	4	26934. 85	$a^5F_3-r^5D_4$
3752. 33	4 <i>ws</i>	26642. 56	$a^5F_1-r^5D_1$	3711. 55	2	26935. 29	$b^1G_4-p^3G_4$
3751. 778	4	26646. 48	$b^5D_3-w^3F_3$	3710. 59	10	26942. 25	$a^3P_0-w^3D_1$
3751. 205	10	26650. 55	$b^5D_2-w^3F_3$	3710. 15	6	26945. 45	
3750. 79	1	26653. 50		3710. 08	10	26945. 96	$b^3H_5-r^3H_5$
3750. 14	1	26658. 12		3709. 94	5	26946. 97	$b^5D_2-w^3P_1$
3749. 73	2 <i>w</i>	26661. 04		3708. 05	2	26960. 71	$b^5D_1-w^3P_1$
3749. 00	100	26666. 23	$a^5G_5-x^5G_4$	3707. 85	2	26962. 16	
			$a^5G_4-x^5G_4$	3706. 908	10	26969. 02	$b^3H_6-r^3H_6$
3748. 61	35	26669. 00	$a^5G_3-x^5G_4$	3706. 82	4	26969. 65	$b^5D_0-w^3P_1$
3748. 17	2	26672. 13	$a^3P_1-w^3D_2$	3705. 94	4 <i>w</i>	26976. 06	
3747. 84	1	26674. 48	$a^5P_3-x^3G_3$	3705. 75	2	26977. 44	
3747. 25	15, <i>Z</i>	26678. 68	$b^1I_6-x^1I_6$	3705. 075	5	26982. 36	$b^3G_5-w^3H_5$
3746. 92	1	26681. 03	$c^3D_3-s^3D_3$	3704. 91	5	26983. 56	$b^5D_3-w^3P_2$
3746. 37	4	26684. 95		3704. 64	4	26985. 52	$b^3G_5-z^1I_6$
3745. 08	3	26694. 14	$c^3D_2-s^3D_2$	3702. 664	2	26999. 93	$b^5D_1-w^3P_2$
3744. 95	5	26695. 07	$c^3D_3-s^3D_2$				
3744. 83	1	26695. 92					
3744. 492	30	26698. 33	$a^5G_5-x^5G_5$				
3744. 33	2 <i>w</i>	26699. 49	$a^5F_3-r^5D_2$				
3743. 887	125	26702. 65	$a^5G_6-x^5G_6$				
3743. 57	100	26704. 91	$a^5G_5-x^5G_5$				
			$a^5G_4-x^5G_5$				

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d, Double; *h*, hazy; *H*, very hazy; *l*, shaded longward; *s*, shaded shortward; *r*, reversed; *R*, strongly reversed; *w*, wide; *W*, very wide; *Z*, Zeeman pattern in table 2-

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
3702. 158	2	27003. 62	$a^3H_5-w^3F_4$	3668. 13	1	27254. 12	$b^3F_4-q^3F_4$
3701. 33	1 <i>h</i>	27009. 66		3668. 03	20	27254. 86	$a^5G_2-v^5D_1$
3700. 395	2	27016. 48	$a^3H_4-w^3F_3$	3667. 36	2	27259. 83	$b^3H_3-q^3D_3$
3700. 088	1	27018. 73	$b^3H_5-r^3H_5$	3666. 63	50	27265. 26	$a^5G_3-v^5D_2$
3699. 12	1 <i>hl</i>	27025. 79	$c^3D_3-p^3F_4$	3666. 18	20	27268. 60	$b^3F_3-q^3F_3$
			$a^3G_5-t^5D_4$				$a^5G_2-v^5D_2$
3698. 18	4	27032. 59	$b^3G_4-w^3H_4$	3665. 981	30	27270. 02	$a^5G_5-x^5H_5$
3697. 45	2 <i>wl</i>	27038. 00					$a^5G_4-x^5H_5$
3697. 15	1 <i>w</i>	27040. 19		3665. 426	10	27274. 22	$a^5G_6-x^5H_5$
3696. 70	3 <i>w</i>	27043. 48		3664. 163	2	27283. 62	$b^3H_4-q^3H_5$
3695. 86	10	27049. 63	$b^3G_5-v^3H_5$	3663. 206	40	27290. 75	$b^3D_3-r^5D_4$
				3662. 836	25	27293. 50	$a^5G_4-v^5D_3$
3694. 65	1	27058. 49					$a^5G_3-v^5D_3$
3694. 124	10	27062. 34	$a^5G_5-z^3I_5$	3662. 376	5	27296. 93	$a^5G_2-v^5D_3$
3693. 57	2	27066. 40	$a^5G_4-z^3I_5$	3661. 43	6	27303. 98	$b^3G_5-u^3F_4$
3693. 09	15	27069. 92	$a^5G_6-z^3I_5$	3661. 227	7	27305. 50	
3692. 72	1 <i>wh</i>	27072. 63	$b^3G_5-w^3H_5$	3659. 976	3	27314. 83	
			$z^7D_3-e^5F_4$	3659. 91	1	27315. 32	
3689. 65	15, <i>Z</i>	27095. 15	$b^3G_4-w^3H_5$	3656. 97	4	27337. 28	$z^7D_4-g^5D_3$
3689. 315	18	27097. 62	$a^5G_4-x^5H_5$	3656. 26	100	27342. 59	$a^5G_5-v^5D_4$
3688. 98	1	27100. 07	$a^5G_3-x^5H_5$	3655. 858	5	27345. 82	$a^5G_4-v^5D_4$
3688. 47	25	27103. 82	$a^5G_2-x^5H_5$	3653. 916	100, <i>Z</i>	27360. 13	$a^5G_3-v^5D_4$
3688. 12	12	27106. 40	$a^5G_5-z^3I_5$	3652. 61	2 <i>w</i>	27369. 91	$a^5F_2-u^3D_1$
3687. 58	20	27110. 36	$a^5G_3-v^5F_2$	3652. 04	2	27374. 19	
3687. 32	20	27112. 28	$a^5G_2-v^5F_1$	3651. 36	2	27379. 28	
3687. 25	25	27112. 79	$a^5G_4-v^5F_3$	3650. 83	1 <i>w</i>	27383. 26	
3687. 07	7	27114. 11	$b^3D_1-s^3F_2$	3650. 76	1 <i>w</i>	27383. 78	$z^7D_5-g^5D_4$
			$a^5G_2-v^5F_3$	3650. 47	3	27385. 96	
			$a^5G_5-v^5F_4$				
3686. 82	60 <i>w</i>	27115. 95	$a^5G_4-v^5F_4$	3649. 863	20	27390. 51	$b^3G_5-v^3F_4$
				3648. 993	75	27397. 04	$a^5G_3-u^5F_2$
3686. 41	2 <i>w</i>	27118. 97	$a^5G_2-v^5F_3$	3648. 534	40	27400. 49	$a^5G_2-u^5F_2$
			$a^5G_3-v^5F_4$	3647. 15	3 <i>w</i>	27410. 89	
3686. 16	10 <i>w</i>	27120. 81	$a^5G_5-v^5F_3$	3646. 68	2	27414. 42	$a^3F_4-y^3I_5$
3685. 57	70 <i>w</i>	27125. 15	$a^5G_4-v^5F_5$	3646. 158	30	27418. 35	$a^5G_5-x^5H_5$
3685. 25	5 <i>w</i>	27127. 50	$a^5G_6-v^5F_5$	3645. 581	12	27422. 69	$a^5G_6-x^5H_5$
3684. 98	8 <i>w</i>	27129. 49		3641. 84	85	27450. 85	$a^5G_4-u^5F_3$
				3641. 466	30	27453. 67	$a^5G_3-u^5F_3$
				3641. 011	6	27457. 10	$a^5G_2-u^5F_3$
3684. 31	2	27134. 43	$b^3D_2-s^3F_2$				
3683. 66	10	27139. 21	$a^3G_4-t^5D_3$	3640. 384	30	27461. 83	$a^5G_5-u^5F_5$
3683. 17	2	27142. 82	$b^3G_4-w^3H_4$	3639. 80	200 <i>R</i>	27466. 24	$a^5G_4-u^5F_5$
3682. 30	2	27149. 24	$c^3D_2-r^3G_3$	3638. 38	2 <i>h</i>	27476. 96	$a^5G_6-u^5F_5$
3681. 69	22, <i>Z</i>	27153. 74	$a^3P_1-u^3D_3$	3637. 96	3 <i>w</i>	27480. 13	
			$a^3P_2-w^3P_1$	3637. 82	2 <i>w</i>	27481. 19	$c^3D_1-t^3P_0$
3680. 99	10	27158. 90	$b^3D_3-s^3F_4$	3637. 61	2 <i>w</i>	27482. 77	
3680. 19	12	27164. 80	$a^5G_5-x^5H_4$	3636. 87	5	27488. 37	
3679. 81	18	27167. 61	$a^5G_4-x^5H_4$	3636. 588	100	27490. 50	$a^5G_5-u^5F_4$
3679. 074	20	27173. 04	$a^5G_3-x^5H_4$	3636. 193	5	27493. 49	$a^5G_4-u^5F_4$
3678. 88	6	27174. 48	$a^5G_6-z^3I_7$	3635. 281	30	27500. 39	$a^5G_3-u^5F_4$
			$b^3D_2-s^3F_3$				$a^7S_3-z^7D_3$
3677. 24	1	27186. 60	$a^5P_3-x^3D_3$	3634. 996	20	27502. 53	$b^3F_4-s^3D_3$
3677. 00	2	27188. 37	$c^3D_3-r^3G_4$	3633. 976	3	27510. 25	
3676. 321	25, <i>Z</i>	27193. 39	$a^3P_2-w^3P_2$	3633. 314	4	27515. 27	
3676. 14	5 <i>w</i>	27194. 73	$b^3D_3-s^3F_3$	3632. 832	75	27518. 92	$a^5G_5-t^5F_4$
3673. 732	2	27212. 56	$b^3F_4-q^3F_3$	3632. 444	4	27521. 86	$a^5G_4-t^5F_4$
							$a^5G_3-t^5F_4$
3673. 68	2	27212. 94	$b^3F_2-q^3F_5$	3629. 389	6	27545. 02	
3673. 58	6	27213. 68	$b^3G_5-v^3H_4$	3628. 299	3	27553. 30	$a^3G_5-y^3I_5$
3671. 93	4	27225. 91	$b^3G_4-v^3H_5$	3628. 054	7	27555. 16	$b^3F_3-s^3D_3$
3670. 66	5	27235. 33		3626. 335	10	27568. 22	
3669. 19	2	27246. 24	$b^3H_4-q^3H_4$	3626. 208	12	27569. 19	$b^3F_3-s^3D_3$

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d, Double; *h*, hazy; *H*, very hazy; *l*, shaded longward; *s*, shaded shortward; *r*, reversed; *R*, strongly reversed; *w*, wide; *W*, very wide; *Z*, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
3625. 57	1 <i>w</i>	27574. 04		3574. 38	10 <i>H</i>	27968. 93	$z^7F_5-e^7G_5$
3623. 49	5	27589. 86	$b^3F_2-s^3D_3$	3574. 042	35	27971. 57	$b^3H_4-p^3H_4$
3623. 25	2	27591. 69	$c^3D_2-t^3P_1$				$a^5P_3-t^5P_3$
3620. 00	6	27616. 46		3573. 636	40	27974. 75	$a^5P_2-y^5S_2$
3619. 46	30	27620. 58	$\left\{ \begin{array}{l} a^5G_6-x^5H_7 \\ c^3D_1-t^3P_1 \end{array} \right.$	3573. 00	2	27978. 00	$z^7F_5-e^7F_4$
				3572. 74	30	27981. 76	$a^5P_3-y^5S_2$
3618. 332	8	27629. 20	$a^5P_2-y^3S_1$	3571. 97	6	27987. 80	$a^3G_4-x^3H_3$
3617. 947	2	27632. 14		3571. 65	1 <i>h</i>	27990. 30	
3617. 37	2 <i>wh</i>	27636. 54		3571. 13	2	27994. 38	$\left\{ \begin{array}{l} c^3D_2-q^3G_3 \\ a^5G_3-x^3G_3 \end{array} \right.$
3617. 159	4	27638. 16	$b^3F_2-s^3D_1$	3570. 99	1	27995. 47	$c^3D_3-q^3G_3$
3615. 646	40, <i>Z</i>	27649. 72	$a^7S_3-z^7D_4$	3570. 24	6	28001. 36	
3615. 075	3 <i>wh</i>	27654. 09		3569. 37	1 <i>w</i>	28008. 18	$a^3H_5-t^5D_4$
3614. 506	4	27658. 03		3569. 143	10	28009. 96	$b^3F_4-r^3G_4$
3613. 66	20	27664. 91	$a^3P_1-w^3P_0$	3568. 37	5 <i>w</i>	28016. 03	$\left\{ \begin{array}{l} z^5D_3-e^5P_2 \\ z^5D_2-e^5P_1 \end{array} \right.$
3612. 606	35, <i>Z</i>	27672. 98	$a^3I_5-t^3H_4$				$z^5P_1-g^5D_2$
3611. 48	2	27681. 61	$a^3G_5-2z_1$	3568. 29	2 <i>w</i>	28016. 66	$z^7F_5-h^7D_4$
							$z^5P_2-g^5D_2$
3610. 043	35	27692. 63	$a^5G_0-t^5F_1$	3567. 57	3 <i>wh</i>	28022. 31	$z^7F_3-e^7G_3$
3609. 483	40	27696. 92	$a^5G_3-t^5F_2$				
3609. 10	1	27699. 87	$b^3G_5-y^1H_6$				
3609. 025	10	27700. 44	$a^5G_0-t^5F_3$	3566. 11	20 <i>WH</i>	28033. 78	$\left\{ \begin{array}{l} z^7F_4-e^7G_5 \\ z^5D_4-e^5P_3 \end{array} \right.$
3608. 407	30, <i>Z</i>	27705. 19	$a^3I_6-t^3H_5$				$a^5G_5-x^3G_4$
				3565. 547	5	28038. 21	$a^5G_4-x^3G_4$
3608. 05	2	27707. 93	$a^3F_4-x^3H_5$				$b^3F_2-r^3G_3$
3605. 320	1000 <i>R</i> , <i>Z</i>	27728. 91	$a^7S_3-y^7P_3$	3565. 153	10	28041. 31	$a^5G_3-x^3G_4$
3604. 92	8	27731. 98	$\left\{ \begin{array}{l} b^5D_2-t^5D_3 \\ a^5P_1-t^5P_1 \end{array} \right.$	3565. 08	2	28041. 88	$c^3D_3-q^3G_4$
			$a^5G_2-t^5F_3$	3564. 942	10	28042. 97	$b^3H_5-p^3H_5$
3604. 536	7	27734. 94	$\left\{ \begin{array}{l} a^3P_1-w^3P_1 \\ a^5P_2-t^5P_1 \end{array} \right.$	3564. 708	18	28044. 81	
			$a^5P_1-t^5P_2$	3564. 286	15	28048. 14	$b^3F_4-r^3G_5$
3603. 74	20	27741. 06		3563. 18	1 <i>w</i>	28056. 83	$b^3H_4-p^3H_5$
				3562. 87	5 <i>w</i>	28059. 28	$z^7F_5-e^7G_1$
3602. 571	22	27750. 06	$a^5P_2-t^5P_2$	3562. 465	8	28062. 47	$b^3F_3-r^3G_4$
3601. 655	75, <i>Z</i>	27757. 12	$a^5P_3-t^5P_2$				
3601. 22	2	27760. 48	$b^5D_3-t^5D_4$	3562. 281	8, <i>Z</i>	28063. 91	$b^3H_6-p^3H_5$
3600. 88	1	27763. 10	$b^3D_3-t^3D_2$	3561. 766	2 <i>w</i>	28067. 97	
3600. 67	2	27764. 72	$a^5G_4-y^3H_4$	3560. 94	3 <i>wh</i>	28074. 49	$z^7F_3-e^7F_2$
				3560. 43	3 <i>wh</i>	28078. 50	$\left\{ \begin{array}{l} z^7F_3-h^7D_3 \\ z^7F_5-h^7D_5 \end{array} \right.$
3599. 396	30, <i>Z</i>	27774. 54	$a^3P_1-w^3P_2$	3560. 31	5	28079. 45	
3598. 668	4	27780. 16	$a^5P_3-x^3F_4$				
3598. 57	3	27780. 92		3559. 777	20, <i>Z</i>	28083. 65	$a^3P_0-w^3P_1$
3598. 04	1	27785. 01		3559. 19	2 <i>H</i>	28089. 08	$z^7F_2-e^7G_2$
3595. 755	4	27802. 67	$\left\{ \begin{array}{l} a^5P_2-x^3F_2 \\ a^5D_3-z^3F_2 \end{array} \right.$	3558. 80	1	28091. 36	$b^3G_5-u^3H_5$
				3558. 57	10 <i>WH</i>	28093. 19	$z^7F_3-e^7G_4$
				3558. 30	3 <i>H</i>	28095. 31	
3594. 31	8	27813. 84					
3593. 481	2000 <i>R</i> , <i>Z</i>	27820. 26	$a^7S_3-y^7P_3$	3556. 93	3 <i>w</i>	28106. 13	$z^7F_2-h^7D_2$
3590. 33	7 <i>wh</i>	27844. 68	$\left\{ \begin{array}{l} z^5P_1-g^5D_0 \\ z^7F_5-e^7G_5 \end{array} \right.$	3556. 73	3	28107. 71	
			$a^3F_3-x^3H_4$	3556. 131	9	28112. 45	$a^5G_4-1z_3$
3588. 726	3	27857. 12	$z^5P_1-g^5D_1$	3556. 00	1 <i>w</i>	28113. 48	$\left\{ \begin{array}{l} b^3D_3-u^3D_3 \\ b^3H_5-p^3H_5 \end{array} \right.$
3587. 01	1 <i>w</i>	27870. 45		3555. 783	10	28115. 20	$a^5G_3-1z_3$
3586. 23	8	27876. 51	$\left\{ \begin{array}{l} a^3G_5-x^3H_6 \\ b^3G_3-u^3F_2 \end{array} \right.$	3555. 597	8	28116. 67	$a^5D_3-z^3F_4$
3584. 337	15 <i>WH</i>	27891. 24	$z^7F_6-e^7G_7$	3555. 34	5	28118. 70	$a^5G_2-1z_3$
3583. 74	3 <i>wh</i>	27895. 88	$b^3D_2-t^3D_3$	3554. 78	3	28123. 13	$a^3D_1-v^3P_0$
3582. 613	25, <i>Z</i>	27904. 65	$a^5D_4-z^3F_4$	3554. 39	1 <i>h</i>	28126. 22	$z^7F_2-e^7F_1$
3582. 15	4	27908. 26	$a^1I_6-x^1H_3$	3553. 955	10	28129. 66	$\left\{ \begin{array}{l} a^3G_3-x^3H_4 \\ b^3P_2-u^3F_3 \end{array} \right.$
3581. 42	2	27913. 95		3552. 95	7 <i>w</i>	28137. 62	$z^7F_1-e^7G_1$
3578. 682	3000 <i>R</i> , <i>Z</i>	27935. 30	$a^7S_3-y^7P_4$	3552. 72	5 <i>WH</i>	28139. 44	$z^7F_2-e^7G_3$
3574. 947	25	27964. 49	$a^5P_2-t^5P_3$	3552. 177	2	28143. 74	
3574. 796	30, <i>Z</i>	27965. 67	$a^5P_1-y^5S_2$	3551. 46	2	28149. 42	
3574. 66	7 <i>H</i>	27966. 73		3550. 63	20 <i>w</i> , <i>Z</i>	28156. 00	$z^7F_5-e^7F_6$

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d, Double; h, hazy; H, very hazy; l, shaded longward; s, shaded shortward; r, reversed; R, strongly reversed; w, wide; W, very wide; Z, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
3550. 50	4w	28157. 03	$z {}^7F_5 - e {}^7F_5$	3513. 88	2w	28450. 46	$\left\{ \begin{array}{l} a {}^3D_3 - u {}^3P_2 \\ a {}^3D_2 - u {}^3P_1 \end{array} \right.$
3549. 25	4wh	28166. 95	$z {}^7F_1 - e {}^7G_2$	3513. 52	2h	28453. 38	$a {}^3D_1 - u {}^3P_1$
3548. 89	4wh	28169. 80	$z {}^7F_4 - e {}^7F_4$	3512. 70	2w	28460. 02	$a {}^3D_2 - 4_3$
3548. 718	4	28171. 17	$z {}^7F_4 - h {}^7D_4$	3512. 66	3	28460. 34	$a {}^3H_6 - y {}^3I_6$
3547. 97	6wh	28177. 11	$b {}^3G_4 - u {}^3H_5$	3510. 534	30, Z	28477. 58	$a {}^3H_6 - y {}^3I_7$
3547. 79	3	28178. 54	$z {}^5D_3 - e {}^5P_3$	3510. 425	3	28478. 46	$b {}^3D_3 - r {}^3F_4$
3547. 76	3wh	28178. 78	$z {}^7F_3 - e {}^7F_3$	3510. 34	2wh	28479. 15	
3547. 04	2w	28184. 50	$z {}^7F_1 - h {}^7D_2$	3508. 83	7w	28491. 41	
3546. 28	2wh	28190. 54	$z {}^7F_3 - e {}^7F_2$	3508. 09	10, Z	28497. 42	
3545. 71	2wh	28195. 07	$z {}^5P_2 - g {}^5D_3$	3507. 223	4w	28504. 46	$a {}^3D_2 - p {}^5F_3$
3545. 19	1w	28199. 20	$z {}^5P_2 - h {}^7D_3$	3507. 06	1h	28505. 78	$a {}^3D_3 - 4_3$
3544. 94	1w	28201. 20	$z {}^5P_3 - g {}^5D_3$	3506. 54	2	28510. 01	
3544. 51	1w	28204. 62		3503. 87	1wh	28531. 73	
3544. 46	2	28205. 02	$z {}^7F_1 - e {}^7F_1$	3503. 37	1	28536. 08	$a {}^3H_5 - y {}^3I_5$
3543. 70	1w	28211. 06		3503. 053	2	28538. 39	$a {}^3D_2 - t {}^3F_3$
3543. 525	3	28212. 46		3502. 695	2w	28541. 31	$a {}^3D_1 - t {}^3F_3$
3542. 127	2	28223. 59		3502. 304	12	28544. 50	
3541. 499	2w	28228. 66	$b {}^3P_2 - v {}^3D_3$	3501. 68	3	28549. 58	$a {}^3D_3 - p {}^5F_3$
3540. 684	2	28235. 10		3501. 54	2	28551. 05	
3539. 913	6	28241. 24	$b {}^3G_4 - y {}^1H_5$	3501. 42	3	28551. 70	
3539. 44	1	28245. 02		3496. 215	2	28594. 21	$a {}^3D_2 - t {}^3F_3$
3539. 223	2	28246. 75		3496. 02	7	28595. 80	
3538. 736	4	28250. 64	$b {}^3P_2 - u {}^3F_3$	3494. 957	30, Z	28604. 50	$a {}^3H_5 - y {}^3I_6$
3537. 56	1	28260. 03		3493. 65	2w	28615. 20	$b {}^3F_3 - t {}^3P_3$
3537. 253	12l	28262. 48	$\left\{ \begin{array}{l} a {}^5G_5 - x {}^3G_5 \\ a {}^5G_4 - x {}^3G_5 \end{array} \right.$	3492. 14	1	28627. 57	$a {}^3F_4 - v {}^3G_3$
3536. 894	5	28265. 35		3491. 15	1w	28635. 69	$b {}^3F_2 - t {}^3P_2$
3536. 77	4	28266. 33	$a {}^5G_6 - x {}^3G_5$	3488. 445	18, Z	28657. 90	$a {}^3H_4 - y {}^3I_5$
3536. 50	5wh	28268. 50	$\left\{ \begin{array}{l} z {}^7F_4 - h {}^7D_5 \\ z {}^7F_1 - e {}^7F_2 \end{array} \right.$	3486. 472	12	28674. 11	
3534. 05	1	28288. 10		3485. 14	3	28685. 07	$a {}^3H_6 - x {}^3H_5$
3532. 89	12, Z	28297. 38	$b {}^3P_1 - u {}^3F_2$	3483. 901	4	28695. 27	
3532. 63	2wh	28299. 46		3483. 512	8	28698. 48	$\left\{ \begin{array}{l} a {}^3D_3 - t {}^3F_4 \\ a {}^3F_3 - v {}^3G_3 \end{array} \right.$
3531. 442	12	28308. 98	$b {}^3D_1 - r {}^3F_2$	3481. 87	2	28712. 01	$b {}^5D_2 - r r {}^5F_1$
3531. 09	10	28311. 80		3481. 541	22, Z	28714. 72	$a {}^3H_6 - x {}^3H_6$
3529. 17	1	28327. 21	$a {}^5P_1 - w {}^3D_3$	3481. 301	25	28716. 70	$a {}^5P_3 - u {}^5D_2$
3528. 87	1	28329. 61	$b {}^3D_2 - r {}^3F_2$	3480. 272	10	28725. 18	$b {}^5D_1 - r r {}^5F_1$
3528. 56	2	28332. 10		3479. 335	2	28732. 93	
3528. 055	5	28336. 16	$a {}^5P_2 - w {}^3D_2$	3479. 251	3	28733. 62	$b {}^5D_3 - r r {}^5F_2$
3527. 18	1h	28343. 19	$a {}^5P_3 - w {}^3D_2$	3479. 122	12	28734. 69	$b {}^5D_0 - r r {}^5F_1$
3527. 09	10wh	28343. 91	$a {}^1I_6 - x {}^1I_6$	3478. 763	15	28737. 65	$b {}^5D_2 - r r {}^5F_2$
3527. 04	4wh	28344. 31		3477. 243	8	28750. 21	$a {}^3F_4 - v {}^3G_4$
3525. 47	5wh	28356. 94		3477. 156	15	28750. 93	$\left\{ \begin{array}{l} a {}^3I_5 - w {}^3I_5 \\ b {}^5D_1 - r r {}^5F_2 \end{array} \right.$
3524. 51	6	28364. 66		3476. 166	4, Z	28759. 12	
3523. 582	7	28372. 12		3474. 865	10	28769. 89	$b {}^5D_2 - r r {}^5F_3$
3522. 958	7	28377. 15		3474. 373	12	28773. 96	
3522. 83	2wh	28378. 18	$z {}^7F_5 - e {}^7F_6$	3473. 611	18	28780. 27	$a {}^5P_2 - u {}^5D_3$
3521. 523	3	28388. 72	$b {}^3D_2 - r {}^3F_3$	3472. 902	15	28786. 15	$a {}^3H_4 - 2$
3519. 70	2h	28403. 42		3472. 764	18, Z	28787. 30	$\left\{ \begin{array}{l} a {}^5P_3 - u {}^5D_3 \\ b {}^5D_4 - r r {}^5F_3 \end{array} \right.$
3519. 445	2	28405. 48	$a {}^3D_2 - u {}^3P_2$	3471. 492	10	28797. 84	$a {}^5P_1 - u {}^5D_2$
3519. 10	1w	28408. 26	$\left\{ \begin{array}{l} a {}^3D_1 - u {}^3P_2 \\ b {}^3D_3 - r r {}^3F_3 \end{array} \right.$	3470. 865	4	28803. 04	$c {}^3G_3 - p {}^3G_3$
3518. 40	3, Z	28413. 91	$a {}^3D_2 - p {}^5F_1$	3470. 716	8	28804. 28	$a {}^5P_1 - u {}^5D_6$
3518. 08	1	28416. 50	$\left\{ \begin{array}{l} a {}^5P_2 - w {}^3D_3 \\ a {}^3D_1 - p {}^5F_1 \end{array} \right.$	3470. 528	12	28805. 84	$a {}^5P_1 - u {}^5D_1$
3517. 82	1	28418. 60	$a {}^3D_2 - p {}^5F_2$	3470. 395	15	28806. 95	$a {}^5P_2 - u {}^5D_2$
3517. 46	2	28421. 51	$\left\{ \begin{array}{l} a {}^3D_1 - p {}^5F_2 \\ z {}^5P_3 - g {}^5D_4 \end{array} \right.$	3469. 588	20	28813. 64	$\left\{ \begin{array}{l} b {}^5D_3 - r r {}^5F_4 \\ a {}^5P_3 - u {}^5D_2 \end{array} \right.$
3517. 21	3	28423. 53	$a {}^5P_3 - w {}^3D_3$	3469. 434	8	28814. 92	$a {}^5P_2 - u {}^5D_1$
3515. 645	2	28436. 18		3469. 17	1	28817. 12	$b {}^3F_4 - q {}^3G_3$

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d. Double; h, hazy; H, very hazy; l, shaded longward; s, shaded shortward; r, reversed; R, strongly reversed; w, wide; W, very wide; Z, Zeeman pattern in table 2

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
3468. 742	12, Z	28820. 67		3431. 993	15	29129. 27	$a^5G_3-x^3F_3$
3467. 713	22, Z	28829. 22	$a^3H_5-x^3H_5$	3431. 86	3	29130. 40	$a^5F_3-q^5D_3$
3467. 012	20	28835. 05	$b^5D_4-r^5F_4$	3431. 694	10	29131. 81	$a^5G_3-x^3F_3$
3465. 571	12	28847. 05	$a^3I_6-w^3I_6$	3431. 582	5	29132. 75	$a^5G_2-x^3F_3$
3465. 248	25	28849. 81	$a^5G_4-w^3G_3$	3431. 278	20	29135. 34	$a^5G_2-x^3F_3$
			$c^3G_4-p^3G_4$	3430. 15	1	29144. 92	
3465. 06	3	28851. 30		3429. 06	2	29154. 18	
3464. 825	10	28853. 25	$a^5G_2-w^3G_3$	3427. 65	5	29166. 17	
3463. 616	7	28863. 33	$b^3F_4-q^3G_4$	3427. 62	5	29166. 43	
3463. 511	5	28864. 20	$a^3F_2-v^3G_3$				
3462. 894	5	28869. 34	$b^3F_3-q^3G_3$	3425. 97	12	29180. 48	$a^3G_4-v^3G_5$
				3424. 46	1w	29193. 34	
3462. 237	2	28874. 82	$z^5D_4-f^5G_5$	3423. 178	7	29204. 28	$b^3D_1-q^3F_2$
			$a^3D_2-t^3G_3$	3423. 047	7	29205. 40	
3460. 426	35	28889. 93	$b^3F_2-q^3G_3$	3421. 71	5	29216. 80	$b^3G_5-u^3G_4$
			$b^5D_4-r^5F_5$				
3459. 14	3	28900. 67	$a^3F_4-v^3G_5$	3421. 67	3	29217. 15	
3458. 34	4	28907. 35	$a^3H_5-x^3H_4$	3421. 45	3	29219. 03	$a^5P_3-w^3F_4$
3458. 085	18	28909. 48	$a^3I_7-w^3I_7$	3421. 02	2	29222. 78	$a^3F_3-q^5F_3$
				3419. 89	3w	29232. 35	
3456. 31	1	28924. 41	$b^3F_4-q^3G_5$	3419. 66	2w	29234. 32	$a^5F_5-q^5D_4$
3455. 607	50	28930. 22	$a^5G_5-w^3G_4$				
			$a^5G_4-w^3G_4$	3418. 81	1w	29241. 59	$b^5D_2-s^5D_2$
3455. 273	20	28933. 01	$a^5G_3-w^3G_2$	3418. 667	1	29242. 81	
3453. 737	20	28945. 88	$a^5G_3-w^5G_2$	3417. 98	2	29248. 67	
3453. 328	40	28949. 31	$a^5G_2-w^5G_2$	3415. 58	1w	29269. 24	
				3415. 311	7, Z	29271. 55	$b^3G_5-u^3G_5$
3453. 217	10	28950. 24	$a^3D_3-t^3G_4$				
			$a^3I_5-x^1H_5$	3414. 35	1w	29279. 79	
3452. 60	1	28955. 41	$a^3F_4-r^5P_3$	3414. 089	2	29282. 02	$b^3G_4-u^3G_3$
3452. 48	1	28956. 42	$a^3I_6-x^1H_5$	3412. 264	8, Z	29297. 69	$b^3D_2-q^3F_3$
3450. 811	10, Z	28970. 42		3411. 02	10w	29308. 37	
3449. 10	1	28984. 80		3410. 03	1	29316. 88	$b^3D_3-q^3F_3$
3448. 188	8	28992. 46					
3447. 762	35	28996. 04	$a^5G_4-w^5G_3$	3409. 76	1	29319. 20	$a^5P_1-w^3P_0$
3447. 426	40	28998. 87	$a^5G_3-w^5G_3$	3409. 37	6w	29322. 55	
3447. 012	25	29002. 35	$a^5G_2-w^5G_3$	3408. 94	7	29326. 25	
3446. 03	1	29010. 62	$a^5F_3-q^5D_2$	3408. 66	2	29328. 66	$a^5F_2-o^5F_1$
				3408. 56	2	29329. 52	$b^3G_4-u^3G_4$
3445. 604	50	29014. 20	$a^5G_5-w^3G_5$				
			$a^5G_4-w^3G_5$	3408. 37	2	29331. 15	$a^5F_1-o^5F_1$
3445. 097	15	29018. 48	$a^5G_6-w^3G_5$	3408. 01	6w	29334. 25	
3443. 779	20, Z	29029. 58	$a^3H_4-x^3H_4$	3407. 23	8w	29340. 97	$b^5D_2-s^5D_3$
3442. 592	3	29039. 59	$a^3G_5-v^3G_5$	3406. 87	2w	29344. 07	
3441. 449	50	29049. 24	$a^5G_5-w^5G_4$	3405. 217	10	29358. 31	$b^3D_3-q^3F_4$
			$a^5G_4-w^5G_4$				
3441. 109	25	29052. 10	$a^5G_3-w^5G_4$	3403. 983	5	29368. 96	$b^3P_2-v^3P_2$
3439. 358	8	29066. 90		3403. 588	18	29372. 36	$a^3I_5-v^3I_5$
3436. 190	50	29093. 70	$a^5G_5-w^5G_5$	3402. 91	1	29378. 21	$a^3I_6-v^3I_5$
			$a^5G_4-w^5G_5$	3401. 72	5	29388. 49	$b^3G_3-u^3G_3$
3435. 818	15	29096. 84	$a^5G_5-x^3F_4$	3401. 14	2	29393. 50	$a^3I_7-x^1I_6$
3435. 676	18	29098. 05	$a^5G_4-x^3F_4$				
			$a^5G_6-w^5G_5$	3396. 02	4w, Z	29437. 82	$b^3G_4-4_3$
3435. 479	10	29099. 91	$a^5G_3-x^3F_4$	3392. 06	2	29472. 18	$a^3I_5-v^3I_6$
3435. 26	1	29101. 57		3391. 36	18	29478. 27	$a^3I_6-v^3I_6$
3435. 14	1	29102. 58	$a^5P_2-w^3F_3$	3391. 08	5	29480. 70	$a^3D_2-s^3F_3$
3434. 47	1w	29108. 26		3390. 766	18	29483. 43	$a^3D_1-s^3F_2$
3434. 30	1w	29109. 70	$a^5P_3-w^3F_3$				
3434. 106	25	29111. 34	$a^5G_5-w^5G_6$	3389. 44	2	29494. 97	$b^3D_3-s^3G_4$
3433. 68	3	29114. 96	$a^5F_4-q^5D_3$	3388. 894	3	29499. 72	$b^3P_2-v^3P_1$
3433. 589	40	29115. 73	$a^5G_6-w^5G_6$	3388. 705	20	29501. 36	$a^5G_2-s^3F_1$
3432. 840	8	29122. 08		3386. 717	3	29518. 68	$b^3G_5-t^3F_4$
3432. 311	12	29126. 57	$a^5G_4-x^3F_3$	3386. 513	12s	29520. 45	$a^3D_2-s^3F_3$

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d, Double; *h*, hazy; *H*, very hazy; *l*, shaded longward; *s*, shaded shortward; *r*, reversed; *R*, strongly reversed; *w*, wide; *W*, very wide; *Z*, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
3385. 313	15	29530. 91	$a^3D_3-s^3F_4$	3350. 30	4	29839. 53	$a^3G_4-w^3H_4$
3384. 649	18 <i>w</i>	29536. 71	$a^5G_3-s^5F_4$	3349. 322	20	29848. 24	$a^3G_5-w^3H_3$
3384. 242	10 <i>w</i>	29540. 26	$a^5G_2-s^5F_3$	3349. 067	20 <i>w</i>	29850. 51	$b^5D_4-s^5P_3$
3383. 628	3	29545. 62	$a^5F_3-o^5F_3$	3347. 467	7	29864. 78	$b^3P_2-u^3P_3$
3383. 54	1	29546. 39	$b^3P_1-v^3P_1$	3346. 79	10, <i>Z</i>	29870. 82	$a^3H_4-v^3G_3$
3382. 068	7	29559. 25	$a^3F_4-w^3H_4$	3346. 72	30, <i>Z</i>	29871. 44	$a^3H_5-v^3G_4$
3381. 33	2	29565. 70	$b^3P_0-v^3P_1$	3346. 15	7 <i>w</i>	29876. 53	$z^7P_4-h^7D_4$
3380. 55	4 <i>w</i>	29572. 53	$a^3D_3-s^3F_3$	3346. 008	40	29877. 80	$a^3H_6-v^3G_3$
3379. 85	7	29578. 65	$b^3G_4-t^5F_3$	3345. 36	8	29883. 59	$b^3G_4-t^3G_4$
3379. 56	4 <i>w</i>	29581. 19	$a^5G_4-s^5F_3$	3345. 144	9	29885. 52	$b^3G_5-t^3G_3$
3379. 168	30	29584. 62	$b^3D_1-s^3D_2$	3344. 507	10	29891. 21	$a^3G_5-v^3H_3$
3377. 24	1	29601. 51	$a^7S_3-y^5P_3$	3343. 75	5 <i>wh</i>	29897. 98	$z^7P_3-h^7D_3$
3377. 08	2	29602. 91	$b^3D_2-s^3D_2$	3343. 344	20, <i>Z</i>	29901. 61	$a^3G_4-w^3H_3$
3376. 628	3	29606. 87	$d^3F_4-p^3G_3$	3343. 221	12	29902. 71	$a^3G_3-w^3H_4$
3376. 397	20	29608. 90	$a^1I_6-v^3I_7$	3342. 457	5	29909. 54	$b^3P_2-u^3P_1$
3376. 13	4 <i>wh</i>	29611. 24	$b^3D_3-s^3D_3$	3342. 233	12	29911. 54	$b^3P_1-u^3P_2$
3375. 593	5	29615. 95	$a^3I_7-v^3I_7$	3342. 025	5	29913. 41	$a^3G_4-v^3H_4$
3375. 32	1 <i>wh</i>	29618. 34		3341. 454	7 <i>w</i>	29918. 52	$b^3P_2-4_3$
3375. 08	2	29620. 45		3340. 641	10	29925. 80	
3374. 927	10	29621. 80	$b^3D_3-s^3D_2$	3338. 677	7	29943. 40	$a^3F_4-u^3F_4$
3374. 74	3	29623. 43	$a^3F_4-w^3H_3$	3337. 85	1	29950. 82	
3374. 58	12	29624. 84	$b^5D_3-v^3G_4$	3337. 219	5	29956. 48	$b^3P_1-u^3P_1$
3374. 406	4	29626. 37	$b^3G_3-t^3F_2$	3336. 98	18	29958. 63	$a^3I_6-s^3H_3$
3374. 13	1 <i>w</i>	29628. 79	$b^3P_1-v^3P_3$	3336. 855	5	29959. 75	$b^3G_3-t^3G_3$
3373. 958	6	29630. 30	$a^3F_3-w^3H_4$	3336. 72	1 <i>w</i>	29960. 96	
3372. 31	2 <i>w</i>	29644. 78	$b^3D_3-s^3D_3$	3335. 771	6	29969. 49	$b^3P_0-u^3P_1$
3371. 34	3	29653. 31	$b^3G_3-v^3H_4$	3334. 922	12	29977. 12	$a^3G_3-v^3H_4$
3371. 07	6	29655. 68	$a^3F_3-w^3H_4$	3334. 78	5	29978. 40	$b^3P_1-u^3P_0$
3370. 98	4	29656. 48	$b^5D_4-v^3G_4$	3334. 68	10 <i>w</i>	29979. 29	$z^7P_3-h^7D_3$
3370. 22	8 <i>w</i>	29663. 16	$a^3D_3-r^5D_4$	3333. 61	12 <i>w</i>	29988. 92	$z^7P_3-h^7D_4$
3368. 45	2	29678. 75	$a^5F_5-o^5F_4$	3333. 50	4 <i>w</i>	29989. 90	$b^3G_3-t^3G_4$
3367. 54	10 <i>w</i>	29686. 77	$b^5D_2-s^5P_1$	3332. 88	25, <i>Z</i>	29995. 48	$a^3F_3-v^3P_3$
3366. 28	1	29697. 89	$a^5F_4-o^5F_4$	3332. 54	3	29998. 54	$b^3G_4-t^3G_3$
3365. 52	10, <i>Z</i>	29704. 59	$a^5G_5-s^5F_4$	3331. 19	1	30010. 70	
3365. 03	1	29708. 91	$a^5G_4-s^5F_4$	3330. 596	7 <i>w</i> , <i>Z</i>	30016. 05	$a^3F_2-v^3D_1$
3362. 70	10 <i>w</i>	29729. 50	$a^3F_3-v^3H_4$	3329. 058	40, <i>Z</i>	30029. 92	$a^3F_4-v^3F_4$
3362. 216	25 <i>w</i>	29733. 78	$a^3F_3-v^3H_4$	3328. 807	15	30032. 18	$a^3G_4-v^3H_3$
3360. 145	6	29752. 10	$a^3G_5-w^3H_4$	3328. 64	2	30033. 69	$a^5G_5-u^5D_4$
3359. 176	6	29760. 69	$a^3F_3-v^3H_4$	3327. 26	3 <i>w</i>	30046. 15	$a^3D_1-u^3D_1$
3357. 86	2	29772. 35	$a^3F_3-v^3H_4$	3327. 23	3 <i>w</i>	30046. 42	$a^3F_3-v^3D_2$
3356. 76	1 <i>wh</i>	29782. 11	$b^5D_3-s^5P_3$	3327. 10	2	30047. 59	$b^5D_4-q^5F_3$
3356. 38	3 <i>wh</i>	29785. 47	$a^5G_5-s^5F_5$	3326. 588	30, <i>Z</i>	30052. 21	$a^3F_2-v^3F_2$
3354. 65	1 <i>w</i>	29800. 80	$a^5G_4-s^5F_5$	3325. 664	4	30060. 56	
3353. 626	7 <i>w</i>	29809. 94	$b^5D_2-s^5P_3$	3324. 86	1	30067. 83	$a^3I_5-r^3G_4$
3353. 022	15	29815. 30	$a^5G_6-s^5F_5$	3324. 06	20	30075. 09	
3352. 70	1 <i>w</i>	29818. 17	$a^3F_4-v^3H_3$	3323. 27	7 <i>s</i>	30082. 22	$a^3G_5-u^3F_4$
3351. 966	40, <i>Z</i>	29824. 70	$a^3G_5-w^3H_4$	3321. 188	8	30101. 07	$a^3F_3-v^3F_4$
3351. 591	25	29828. 04	$z^7P_4-h^7D_3$	3320. 57	1 <i>WH</i>	30106. 68	$a^3I_5-r^3G_3$
3351. 49	3 <i>w</i>	29828. 93		3319. 95	3	30112. 30	$a^3I_6-r^3G_3$
3350. 72	1 <i>w</i>	29835. 79	$a^3I_5-s^3H_4$	3318. 96	1	30121. 28	$b^5D_3-q^5F_4$
3352. 70	1 <i>w</i>	29818. 17	$a^5F_4-o^5F_3$	3318. 73	2	30123. 37	
3351. 966	40, <i>Z</i>	29824. 70	$a^7S_3-y^5P_3$	3318. 10	5 <i>WH</i>	30129. 09	$z^7P_4-h^7D_5$
3351. 591	25	29828. 04	$a^3G_5-v^3H_3$	3317. 06	2	30138. 53	$b^3H_4-p^3G_3$
3351. 49	3 <i>w</i>	29828. 93	$b^5D_3-s^5P_3$	3316. 60	3	30142. 72	$b^5D_4-q^5F_4$
3350. 72	1 <i>w</i>	29835. 79		3316. 496	25	30143. 66	$a^5P_1-t^5D_3$
							$a^3I_7-s^3H_3$

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d, Double; h, hazy; H, very hazy; l, shaded longward; s, shaded shortward; r, reversed; R, strongly reversed; w, wide; W, very wide; Z, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
3316. 229	5	30146. 09	$a^5P_1-t^5D_1^{\circ}$	3249. 223	10	30767. 74	$a^3F_4-y^1H_5$
3315. 20	4	30155. 44	$a^5P_2-t^5D_1^{\circ}$	3248. 98	2	30770. 04	$a^5H_6-z^1K_7^{\circ}$
3314. 804	10	30159. 05	$a^5P_1-t^5D_2^{\circ}$	3248. 90	1	30770. 80	$z^5F_1^{\circ}-e^5P_1$
3314. 32	2wh	30163. 45	$a^3G_3-v^3F_2^{\circ}$	3247. 278	15, Z	30786. 17	$a^5D_1-z^3D_1^{\circ}$
3314. 19	8	30164. 63	$a^5P_2-t^5D_2^{\circ}$	3245. 543	25, Z	30802. 63	$a^3H_4-w^3H_3$
3313. 728	12	30168. 84	$a^3G_5-v^5F_4^{\circ}$	3245. 50	12	30803. 04	$a^5D_2-z^3D_2^{\circ}$
3313. 023	7	30175. 26	$a^3F_4-u^3F_3^{\circ}$	3244. 713	4	30810. 51	$a^3H_5-v^3H_6$
3312. 707	3	30178. 14	$a^3D_2-u^3D_2^{\circ}$	3244. 121	20, Z	30816. 13	$a^5D_3-z^3D_3^{\circ}$
3312. 074	10	30183. 90	$a^5P_2-t^5D_3^{\circ}$	3242. 58	2	30830. 78	$a^3H_5-w^3H_3$
3311. 30	4	30190. 96	$a^3D_1-t^3D_1^{\circ}$	3240. 95	18	30846. 28	$a^5D_0-z^3D_1^{\circ}$
			$a^5P_3-t^5D_3^{\circ}$	3239. 18	4	30863. 14	$a^3P_2-v^3D_1^{\circ}$
3309. 83	15	30204. 36	$a^3G_4-v^3F_3^{\circ}$	3238. 953	6	30865. 30	$a^3H_4-w^3H_3$
3309. 238	1	30209. 77	$a^3H_6-z^3K_7^{\circ}$	3238. 504	10	30869. 58	$a^3G_5-u^3H_3$
3307. 754	30	30223. 32	$b^3H_5-p^3G_2^{\circ}$	3238. 088	20	30873. 55	$a^5H_5-v^3H_5$
3305. 232	5	30246. 38	$a^5P_3-t^5D_4^{\circ}$	3237. 727	30, Z	30876. 98	$a^3H_4-v^3H_4$
3304. 39	1wh	30254. 09	$a^3G_4-u^3F_4^{\circ}$				$a^5G_5-z^1H_3$
3303. 32	1wh	30263. 89	$b^3H_6-p^3G_2^{\circ}$	3237. 27	6	30881. 34	
3302. 874	18	30267. 98	$a^3F_3-u^3F_3^{\circ}$	3226. 25	3w	30891. 07	$a^3P_2-v^3F_3^{\circ}$
3302. 19	5wh	30274. 25	$b^3D_4-q^5F_5^{\circ}$	3235. 34	1	30899. 76	$b^3D_2-q^3G_3^{\circ}$
3300. 79	4	30287. 09	$a^3G_3-v^3F_3^{\circ}$	3235. 13	6	30901. 77	
3298. 39	1	30309. 12	$a^3F_4-v^3D_3^{\circ}$	3234. 556	8	30907. 25	
3298. 313	20	30309. 83	$a^3G_3-u^3F_4^{\circ}$	3233. 24	18, Z	30919. 83	$a^5D_1-z^3D_2^{\circ}$
3297. 33	2wh	30318. 87	$a^3D_3-t^3D_3^{\circ}$	3231. 38	2	30937. 63	$b^3G_5-t^3H_3$
3296. 837	3	30323. 40	$a^5F_1-t^3P_2^{\circ}$	3229. 206	25, Z	30958. 46	$b^5G_5-t^3H_6$
3293. 91	1h	30350. 35	$b^3G_5-s^3F_4^{\circ}$	3227. 232	7	30977. 39	$a^3G_4-u^3H_5$
3293. 83	10	30351. 08		3226. 555	15	30983. 89	$a^5D_2-z^3D_3^{\circ}$
3292. 07	2	30367. 31	$a^3F_3-u^3F_2^{\circ}$	3222. 33	2	31024. 51	$b^3G_4-t^3H_3$
3291. 39	2	30373. 58	$a^3G_3-v^3F_4^{\circ}$	3219. 97	2	31047. 25	$a^3G_4-y^1H_5$
3290. 95	1h	30377. 64		3219. 62	20, Z	31050. 63	$b^3G_4-t^3H_5$
3287. 72	2H	30407. 48		3218. 70	7wh	31059. 50	$a^3P_2-v^3D_2^{\circ}$
3286. 355	15	30420. 12		3218. 17	2	31064. 62	$a^3H_5-u^3F_4^{\circ}$
3284. 84	2w	30434. 14	$a^3G_4-v^3F_4^{\circ}$	3216. 37	2	31082. 00	$a^3G_3-u^3H_4$
3282. 56	2	30455. 28	$b^3G_5-r^5D_4^{\circ}$	3211. 316	20, Z	31130. 92	$b^3G_3-t^3H_4$
3280. 36	2	30475. 71	$a^3G_5-y^1I_8^{\circ}$	3210. 633	7	31137. 54	$a^5S_2-z^3D_2^{\circ}$
3280. 11	2	30478. 03		3207. 51	1	31167. 86	$a^3H_4-v^3F_3^{\circ}$
3279. 95	1	30479. 51		3207. 17	1w	31171. 16	$z^7P_2^{\circ}-e^5F_3$
3279. 344	2	30485. 14	$a^3D_3-u^3D_3^{\circ}$	3205. 81	1	31184. 38	$a^3F_4-v^5G_3^{\circ}$
3277. 873	8	30498. 82	$b^3G_4-s^3F_3^{\circ}$	3198. 116	20, Z	31259. 40	$a^3P_2-u^3F_3^{\circ}$
3275. 817	3	30517. 97		3196. 83	3	31271. 98	
3275. 73	2	30518. 78	$a^3D_3-u^3D_3^{\circ}$	3196. 67	1	31273. 54	$a^3H_4-v^3F_4^{\circ}$
3271. 93	4wh	30554. 22	$a^3G_3-u^3F_3^{\circ}$	3192. 287	5	31316. 48	$a^5H_6-y^1I_8^{\circ}$
3270. 708	8	30565. 64	$b^3G_3-s^3F_2^{\circ}$	3192. 118	15, Z	31318. 13	$a^5S_2-z^3D_3^{\circ}$
3267. 038	3	30599. 97	$a^3H_6-z^1I_6^{\circ}$	3188. 02	15wh	31358. 45	$a^3P_2-v^3D_3^{\circ}$
3266. 631	15	30603. 79	$a^5D_4-z^3D_3^{\circ}$	3184. 02	2	31397. 79	$a^5F_3-r^3H_4$
3265. 93	1w	30610. 35		3179. 283	10w	31444. 56	$a^3P_1-v^3D_1^{\circ}$
3265. 34	1w	30615. 88		3177. 659	3	31460. 63	$a^3H_5-y^1I_6^{\circ}$
3262. 77	1	30640. 00	$a^3G_3-u^3F_3^{\circ}$	3175. 598	4	31481. 05	$a^3P_1-v^3F_3^{\circ}$
3259. 976	25, Z	30666. 26	$a^3H_6-v^3H_6$	3175. 03	2	31486. 68	$a^3H_6-x^3I_5^{\circ}$
3259. 61	2	30669. 70	$a^5D_2-z^3D_1^{\circ}$	3169. 578	8	31540. 84	$a^5G_5-t^5D_4^{\circ}$
3257. 826	40, Z	30686. 50	$a^3H_6-w^3H_6$	3168. 745	5	31549. 13	$a^5G_4-t^5D_4^{\circ}$
3254. 94	2wh	30713. 71		3167. 44	5, Z	31562. 13	$a^3H_6-x^3I_5^{\circ}$
3253. 262	10, Z	30729. 54	$a^3H_6-v^3H_5$	3167. 156	2	31564. 96	$b^3P_1-t^3D_2^{\circ}$
3251. 831	40, Z	30743. 07	$a^5G_2-w^3P_1^{\circ}$	3164. 492	4	31591. 53	$a^3H_6-x^3I_5^{\circ}$
3251. 582	18, Z	30745. 42	$a^3H_5-w^3H_5$	3164. 055	3	31595. 90	
3251. 063	3	30750. 33		3163. 764	25, Z	31598. 80	$a^3H_6-x^3I_5^{\circ}$
3250. 58	10	30754. 90	$a^3H_5-v^3H_4$	3160. 617	8	31630. 27	$a^3H_5-x^3I_5^{\circ}$

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d, Double; h, hazy; H, very hazy; l, shaded longward; s, shaded shortward; r, reversed; R, strongly reversed; w, wide; W, very wide; Z, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
3159. 909	3	31637. 35	$b^3P_2-u^3D_{3/2}^2$	3109. 34	20, Z	32151. 87	$a^3G_3-u^3G_3$
3159. 58	20wh, Z	31640. 65	$a^3P_1-v^3D_{3/2}^2$	3105. 84	1	32188. 10	
3158. 814	4	31648. 32		3105. 574	5	32190. 85	$a^3G_4-u^3G_{3/2}^2$
3156. 094	2	31675. 59		3104. 706	7, Z	32199. 86	$a^3G_3-u^3G_{3/2}^2$
3155. 25	3	31684. 06	$\left\{ \begin{array}{l} b^3P_1-u^3D_{3/2}^2 \\ a^5P_1-s^5D_{3/2}^2 \end{array} \right.$	3100. 46	1	32243. 95	$a^3G_4-4\frac{3}{2}$
3155. 161	20, Z	31684. 96	$a^3H_5-x^3I_6$	3099. 497	4	32253. 97	$a^3G_3-u^3P_{3/2}^2$
3154. 62	1H	31690. 31		3098. 26	1	32266. 85	$\left\{ \begin{array}{l} y^5P_1-e^5P_2 \\ a^3G_3-p^5F_2 \end{array} \right.$
3153. 547	10, Z	31701. 17	$b^3P_2-t^3D_{3/2}^2$	3096. 704	10	32283. 06	
3153. 02	4	31706. 47		3096. 516	10w	32285. 02	$a^5P_2-s^5P_{3/2}^2$
3152. 99	10	31706. 78	$\left\{ \begin{array}{l} a^3I_5-r^3H_{3/2}^2 \\ b^3P_0-t^3D_{1/2}^2 \end{array} \right.$	3095. 85	15w	32291. 96	$a^5F_3-s^5P_{3/2}^2$
3152. 888	12, Z	31707. 80	$a^3H_6-u^3H_{3/2}^2$	3095. 385	15, Z	32296. 82	$a^3G_5-t^3F_{3/2}^2$
3151. 703	3	31719. 45		3094. 283	1w	32308. 32	$a^3G_3-4\frac{3}{2}$
3150. 65	4	31730. 32	$a^3D_3-q^3F_{3/2}^2$	3092. 833	20	32323. 46	$a^3D_3-p^3F_{3/2}^2$
3149. 21	1	31744. 83	$a^3H_6-y^1H_{3/2}^2$	3092. 708	50 Al?	32324. 78	
3148. 44	20, Z	31752. 60	$a^3H_4-x^3I_5$	3087. 534	10, Z	32378. 93	$a^3G_4-t^3F_{3/2}^2$
3145. 62	10	31781. 06	$a^3I_6-r^3H_{3/2}^2$	3086. 785	8	32386. 79	$a^3G_3-t^3F_{3/2}^2$
3144. 39	12w, Z	31793. 49	$\left\{ \begin{array}{l} a^5P_2-s^5D_{3/2}^2 \\ a^3P_0-v^3D_{1/2}^2 \end{array} \right.$	3084. 579	6	32409. 95	$a^3F_4-t^3G_{3/2}^2$
3143. 74	2w	31800. 07	$a^5P_3-s^5D_{3/2}^2$	3084. 05	2	32415. 51	
3141. 885	12, Z	31818. 84	$a^3H_5-u^3H_{3/2}^2$	3082. 157	40s Al?	32435. 42	
3140. 36	5	31834. 29	$z^7F_5-e^5G_5$	3081. 92	1	32437. 91	$a^3G_4-t^3F_{3/2}^2$
3138. 31	8	31855. 08	$a^3I_7-r^3H_{3/2}^2$	3080. 712	6, Z	32450. 63	$a^3F_3-t^3G_{3/2}^2$
3138. 20	15	31856. 20	$a^3F_4-u^3G_{3/2}^2$	3077. 835	30, Z	32480. 96	$a^3F_3-t^3G_{3/2}^2$
3137. 62	3	31862. 09		3076. 57	6	32494. 32	$a^5G_2-r^5F_{3/2}^2$
3135. 917	7	31879. 39	$a^3F_3-u^3G_{3/2}^2$	3076. 151	6	32498. 74	$a^3P_2-v^3P_{3/2}^2$
3135. 18	1w	31886. 88		3074. 465	7	32516. 56	$a^5G_3-r^5F_{3/2}^2$
3134. 97	8	31889. 02	$a^3H_5-y^1H_{3/2}^2$	3074. 13	2	32520. 11	$a^5G_2-r^5F_{3/2}^2$
3133. 969	5	31899. 20	$b^3P_2-u^3D_{3/2}^2$	3073. 68	25, Z	32524. 87	$a^3F_4-t^3G_{3/2}^2$
3132. 816	18	31910. 95	$a^3F_4-u^3G_{3/2}^2$	3071. 41	2	32548. 91	$\left\{ \begin{array}{l} a^3G_5-t^3G_{3/2}^2 \\ a^5G_3-r^5F_{3/2}^2 \end{array} \right.$
3131. 213	20	31927. 28	$a^3F_3-u^3G_{3/2}^2$	3071. 297	10, Z	32550. 10	$a^5G_4-r^5F_{3/2}^2$
3129. 76	2	31942. 10	$a^5P_3-s^5D_{3/2}^2$	3071. 03	3	32552. 94	
3127. 589	5w	31964. 28	$\left\{ \begin{array}{l} a^3F_4-4\frac{3}{2} \\ a^5P_3-v^3G_{3/2}^2 \end{array} \right.$	3067. 20	10	32593. 58	$\left\{ \begin{array}{l} a^5G_5-r^5F_{3/2}^2 \\ a^5G_4-r^5F_{3/2}^2 \end{array} \right.$
3125. 911	8	31981. 43	$\left\{ \begin{array}{l} a^5H_4-u^3H_{3/2}^2 \\ a^3F_3-u^3P_{3/2}^2 \end{array} \right.$	3065. 065	25, Z	32616. 29	$a^3F_2-t^3G_{3/2}^2$
3122. 998	4	32011. 26	$a^3H_4-y^1H_{3/2}^2$	3063. 83	2	32629. 43	$a^3P_2-v^3P_{3/2}^2$
3121. 60	3whs	32025. 60	$y^5P_3-e^5P_3$	3063. 64	1	32631. 46	
3120. 63	10	32035. 55	$a^5F_3-4\frac{3}{2}$	3062. 05	2	32648. 40	$\left\{ \begin{array}{l} a^5G_5-r^5F_{3/2}^2 \\ a^5G_4-r^5F_{3/2}^2 \end{array} \right.$
3119. 704	20, Z	32044. 69	$a^3F_2-u^3G_{3/2}^2$	3061. 814	10, Z	32650. 91	$b^3G_5-s^3G_{3/2}^2$
3119. 252	20, Z	32049. 70	$a^3G_5-u^3G_{3/2}^2$	3061. 64	15, Z	32652. 77	$a^5G_2-r^5F_{3/2}^2$
3119. 18	3	32050. 44		3061. 01	2	32659. 49	$a^3G_4-t^3G_{3/2}^2$
3118. 80	4	32054. 35		3060. 624	2	32663. 61	$a^3G_5-t^3G_{3/2}^2$
3118. 13	3	32061. 23	$a^3I_5-q^3H_{3/2}^2$	3058. 164	6, Z	32689. 88	$a^3G_4-t^3G_{3/2}^2$
3115. 505	5	32088. 25	$a^3G_4-u^3G_{3/2}^2$	3056. 435	3	32708. 37	$a^3D_1-l^3P_0^2$
3114. 835	10	32095. 15	$a^3I_6-q^3H_{3/2}^2$	3055. 055	5	32723. 15	$a^3G_3-t^3G_{3/2}^2$
3114. 455	6	32099. 07	$a^3F_4-t^3F_{3/2}^2$	3054. 94	3	32724. 38	
3114. 10	1w	32102. 72	$\left\{ \begin{array}{l} b^3G_4-w^3P_{3/2}^2 \\ y^5P_2-e^5P_2 \end{array} \right.$	3053. 87	100r, Z	32735. 85	$a^5D_4-x^5P_{3/2}^2$
3112. 962	5	32114. 46	$a^3F_3-t^3F_{3/2}^2$	3052. 218	18, Z	32753. 56	$a^3G_3-t^3G_{3/2}^2$
3111. 312	2	32131. 49		3049. 878	8	32778. 70	$a^5D_4-y^5F_{3/2}^2$
3110. 986	8	32134. 86	$a^3I_7-q^3H_{3/2}^2$	3047. 88	6	32800. 18	$\left\{ \begin{array}{l} b^3G_4-s^3G_{3/2}^2 \\ b^5D_2-p^5F_{3/2}^2 \end{array} \right.$
3110. 866	15, Z	32136. 10	$a^3G_4-u^3G_{3/2}^2$	3047. 445	15	32804. 86	$a^3G_4-t^3G_{3/2}^2$
3110. 75	5	32137. 30	$\left\{ \begin{array}{l} y^5P_1-e^5P_1 \\ a^3D_2-p^3F_{3/2}^2 \end{array} \right.$	3046. 57	3	32814. 29	$\left\{ \begin{array}{l} b^3G_4-s^3G_{3/2}^2 \\ b^5D_1-p^5F_{3/2}^2 \end{array} \right.$
3109. 81	1	32147. 01	$a^3F_2-u^3P_{3/2}^2$	3046. 10	2	32819. 34	$b^5D_0-p^5F_{3/2}^2$

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d, Double; h, hazy; H, very hazy; l, shaded longward; s, shaded shortward; r, reversed; R, strongly reversed; w, wide; W, very wide; Z, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
3045.324	2	32827.71		2986.13	15, Z	33478.42	$a^5D_1-y^5D_1^{\circ}$
3044.04	1	32841.56	$b^5D_2-4_3$	2986.01	25r, Z	33479.77	$a^5D_3-y^5D_3^{\circ}$
3043.714	3	32845.07	$a^3D_2-t^3P_1^{\circ}$	2985.849	20, Z	33481.57	$a^5D_2-y^5D_2^{\circ}$
3043.46	2	32847.82	$a^3D_1-t^3P_1^{\circ}$	2984.82	3, Z	33493.11	$a^5S_2-y^5F_3^{\circ}$
3042.24	1	32860.99	$b^3P_2-x^3S_1^{\circ}$	2984.014	7, Z	33502.12	$a^3H_6-t^3G_5^{\circ}$
3040.837	100r	32876.15	$a^5D_3-y^5F_3^{\circ}$	2981.42	4, Z	33531.31	$a^3H_5-t^3G_4^{\circ}$
3039.77	25, Z	32887.69	$a^5D_3-x^5P_2^{\circ}$	2980.784	25r, Z	33538.47	$a^5D_0-y^5D_1^{\circ}$
3039.73	15, Z	32888.12	$a^3H_6-u^3G_5^{\circ}$	2978.98	1	33558.77	$a^5G_6-v^3G_5^{\circ}$
3037.049	75r, Z	32917.15	$a^5D_4-y^5F_1^{\circ}$	2975.478	30r, Z	33598.27	$a^5D_1-y^5D_2^{\circ}$
3036.707	6	32920.86	$b^3P_0-x^3S_1^{\circ}$ $b^3G_3-s^3G_3^{\circ}$	2973.51	1	33620.50	$a^3P_1-u^3P_1^{\circ}$
3035.55	2	32933.40	$b^5D_3-p^5F_4^{\circ}$	2973.26	1	33623.33	$a^3H_4-t^3G_3^{\circ}$
3034.191	50, Z	32948.16	$a^5D_3-x^5P_3^{\circ}$	2971.102	25r, Z	33647.75	$a^5D_2-y^5D_3^{\circ}$
3031.498	20, Z	32977.42	$a^3H_5-u^3G_4^{\circ}$	2969.53	1	33665.56	$a^3F_3-t^3D_3^{\circ}$
3031.346	50, Z	32979.08	$a^5D_2-y^5F_1^{\circ}$	2968.98	2w	33671.80	$b^5D_1-r^5D_3^{\circ}$
3030.25	100r, Z	32991.00	$a^5D_3-y^5F_3^{\circ}$	2968.20	2, w	33680.64	$a^5S_3-z^5D_3^{\circ}$ $a^5G_2-r^5F_1^{\circ}$
3029.165	50, Z	33002.83	$a^5D_2-x^5P_1^{\circ}$	2967.64	15, Z	33687.00	$a^5D_3-y^5D_4^{\circ}$
3025.87	3	33038.75	$a^3D_3-t^3P_2^{\circ}$	2966.85	7	33695.97	$a^5S_2-y^5D_1^{\circ}$
3024.689	12	33051.66	$a^3H_4-u^3G_3^{\circ}$	2963.74	4wh	33731.33	$a^5G_3-r^5F_2^{\circ}$
3024.359	125r, Z	33055.26	$a^5D_2-x^5P_2^{\circ}$	2963.26	2	33736.80	$a^3G_5-t^3H_6^{\circ}$
3023.78	1	33061.59	$a^3F_3-s^3F_4^{\circ}$	2962.40	6	33746.58	$a^3F_4-t^3D_3^{\circ}$
3021.576	200r, Z	33085.71	$a^5D_4-y^5F_5^{\circ}$	2961.77	4	33753.76	$a^3F_3-u^3D_2^{\circ}$
3020.671	50r, Z	33095.62	$a^5D_1-y^5F_1^{\circ}$	2961.18	4	33760.49	$b^5D_3-r^5D_2^{\circ}$
3019.39	3	33109.65		2959.07	7	33784.56	$a^3F_2-u^3D_1^{\circ}$
3018.827	40r, Z	33115.83	$b^3G_4-p^3F_3^{\circ}$ $a^5D_2-x^5P_2^{\circ}$	2957.28	2wh	33805.01	$a^5G_4-r^5F_3^{\circ}$
3018.492	50r, Z	33119.50	$a^5D_1-x^5P_1^{\circ}$	2956.328	15	33815.90	$a^5S_2-y^5D_2^{\circ}$ $a^5S_3-z^5D_4^{\circ}$
3017.591	100r, Z	33129.39	$a^5D_3-y^5F_1^{\circ}$	2956.13	1 _s	33818.16	$a^3F_3-t^3D_3^{\circ}$
3016.29	3	33143.68	$b^3G_5-p^3F_4^{\circ}$	2952.15	1	33863.64	$b^5D_2-s^3F_2^{\circ}$
3015.197	50r, Z	33155.70	$a^5D_0-y^5F_1^{\circ}$	2948.87	6h	33901.41	$b^5D_3-s^3F_4^{\circ}$
3014.932	75r, Z	33158.61	$a^5D_2-y^5F_3^{\circ}$	2945.104	3	33944.76	$a^5G_5-r^5F_4^{\circ}$
3014.756	50r, Z	33160.55	$a^5D_1-y^5F_2^{\circ}$	2943.12	1	33967.64	$a^3F_4-u^3D_3^{\circ}$ $a^5D_4-x^7P_4^{\circ}$
3013.72	40r, Z	33171.95	$a^5D_1-x^5P_3^{\circ}$	2941.874	10	33982.03	$a^5S_2-y^5D_3^{\circ}$
3013.033	20, Z	33179.51	$a^5D_0-x^5P_1^{\circ}$	2941.643	2	33984.70	$a^5D_2-z^5H_4^{\circ}$
3011.109	7, Z	33200.71		2941.03	3	33991.78	
3010.22	2	33210.51	$a^3P_1-v^3P_1^{\circ}$ $b^3G_3-p^3F_3^{\circ}$ $a^3F_2-s^3F_2^{\circ}$	2930.31	8h	34000.10	
3009.16	2	33222.21		2939.44	5, Z	34010.16	$b^5D_4-r^5D_4^{\circ}$
3007.945	2	33235.63		2938.83	7h	34017.23	
3006.86	1	33247.62	$a^3D_2-q^3G_3^{\circ}$	2938.59	2	34020.00	$a^5G_6-r^5F_2^{\circ}$
3005.06	40r, Z	33267.54	$a^5D_4-y^5D_3^{\circ}$	2938.03	8	34026.49	$a^3G_4-t^3D_3^{\circ}$
3003.79	7, Z	33281.60		2935.534	10, Z	34055.42	
3002.99	2	33290.47	$a^3P_1-v^3P_0^{\circ}$	2934.45	8h	34068.00	
3002.757	2	33293.05	$a^3D_3-q^3G_3^{\circ}$	2933.47	6h	34079.38	
3002.44	1	33296.56		2932.57	3h	34089.83	$a^3G_3-t^3D_3^{\circ}$
3001.76	1	33304.11	$b^3G_4-s^3H_5^{\circ}$	2932.35	2h	34092.39	
3001.55	1	33306.44	$b^3G_5-r^3G_4^{\circ}$	2931.85	1	34098.20	$a^5D_2-z^5H_3^{\circ}$
3000.88	50r, Z	33313.87	$a^5S_2-y^5F_1^{\circ}$ $a^5D_3-y^5D_3^{\circ}$	2931.30	1	34104.61	
2998.783	40, Z	33337.17	$a^5S_2-x^5P_1^{\circ}$	2930.53	1	34113.57	
2998.118	8, Z	33344.57	$b^3G_5-r^3G_5^{\circ}$	2929.48	4h	34125.79	
2996.571	40r, Z	33361.78	$a^5D_2-y^5D_1^{\circ}$	2927.77	1w	34145.72	
2995.42	2	33374.60	$b^3G_4-r^3G_3^{\circ}$	2925.55	5h	34171.63	
2995.094	30r, Z	33378.22	$b^3G_5-s^3H_6^{\circ}$ $a^5S_2-y^5F_2^{\circ}$	2925.03	4	34177.71	
2994.06	25, Z	33389.75	$a^5S_2-x^5P_2^{\circ}$	2922.12	4	34211.74	$b^3P_1-t^3P_0^{\circ}$
2991.877	30r, Z	33414.12	$a^5D_1-y^5D_0^{\circ}$	2921.35	8	34220.76	$b^3G_5-q^3G_3^{\circ}$
2991.403	6, Z	33419.41	$b^3G_4-r^3G_3^{\circ}$	2921.05	1	34224.28	$a^3G_4-u^3D_3^{\circ}$
2988.638	40, Z	33450.33	$a^5S_3-x^5P_3^{\circ}$	2919.74	1	34239.63	$a^3F_4-r^3F_3^{\circ}$
2986.466	50r, Z	33474.66	$a^5D_4-y^5D_4^{\circ}$	2919.39	2h	34243.73	

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d, Double; h, hazy; H, very hazy; l, shaded longward; s, shaded shortward; r, reversed; R, strongly reversed; w, wide; W, very wide; Z, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
2918. 72	1	34251. 59	$a^3F_3-r^3F_2$	2855. 22	4	35013. 31	$b^3G_5-r^3H_5$
2918. 24	4	34257. 23	$a^5D_4-z^5G_4$	2853. 94	8	35029. 01	$a^3P_2-u^3D_3$
2917. 50	3h	34265. 92		2853. 89	8	35029. 62	$a^5D_3-z^5S_2$
2917. 07	4h	34270. 97		2851. 56	3	35058. 25	$b^3G_4-r^3H_4$
2916. 70	2	34275. 31	$a^5G_4-w^3H_5$	2850. 46	2w	35071. 78	$b^5D_2-r^3F_2$ $b^5D_1-r^3F_2$
2916. 16	12	34281. 66	$a^5D_4-z^5G_3$	2849. 30	8, Z	35086. 05	$b^3G_5-r^3H_5$
2914. 224	3	34304. 43	$b^3P_2-t^3P_1$	2846. 49	4	35120. 69	
2913. 716	20d, Z	34310. 41	$a^3F_4-r^3F_3$ $a^3F_3-r^3F_3$ $a^5D_2-x^7P_2$	2846. 024	12	35126. 44	$b^3G_4-r^3H_5$
2911. 148	22	34340. 68	$a^5D_4-x^5D_3$	2845. 03	2	35138. 71	
2910. 892	25, Z	34343. 82	$a^5D_3-x^5D_2$	2844. 65	2w	35143. 41	$a^3F_2-x^3S_1$
2910. 252	3	34351. 25	$b^3P_1-t^3P_1$	2844. 38	1	35146. 74	$a^3F_3-q^3F_2$
2909. 049	30, Z	34365. 46	$a^5D_2-x^5D_1$	2842. 918	10	35164. 81	$b^3G_5-r^3H_4$
2907. 704	4	34381. 35	$a^3F_3-r^3F_4$	2840. 891	15, Z	35190. 02	$a^3F_4-q^3F_4$
2907. 111	5	34388. 37		2840. 292	7	35197. 32	$a^5D_2-z^5S_2$
2905. 477	25, Z	34407. 71	$a^5D_1-x^5D_3$	2839. 013	8	35213. 18	$a^3P_1-u^3D_1$
2904. 674	12, Z	34417. 22	$a^3F_2-r^3F_2$	2838. 491	10	35219. 66	$a^3F_3-q^3F_3$
2903. 36	4w	34432. 79		2835. 242	7	35260. 01	$a^3P_1-t^3D_3$
2902. 44	4	34443. 70	$a^5D_3-z^5G_3$	2835. 16	2	35261. 03	$a^3F_3-q^3F_4$
2901. 98	4	34449. 16	$a^3G_5-r^3F_2$	2834. 043	3	35274. 93	
2901. 65	5w	34453. 08	$b^3P_2-t^3P_2$	2832. 794	8	35290. 48	$a^3F_4-s^3G_5$
2900. 25	12	34469. 71	$a^5D_3-z^5G_4$	2831. 039	12, Z	35312. 36	$a^3F_2-q^3F_2$
2899. 68	10	34476. 49	$a^3F_2-r^3F_3$	2830. 90	2	35314. 09	$a^5D_1-z^5S_2$
2899. 203	22	34482. 16	$a^5D_1-x^5D_1$	2829. 903	5	35326. 53	$a^3F_4-s^3G_2$
2898. 24	4	34493. 61		2829. 725	5	35328. 75	$a^3G_5-q^3F_4$
2897. 14	2w	34506. 71		2828. 167	12	35348. 21	$a^3P_1-u^3D_2$
2896. 756	25, Z	34511. 29	$a^5D_2-x^5D_2$	2826. 734	20, Z	35366. 13	$b^3G_5-q^3H_5$
2896. 064	6	34519. 53	$a^3G_4-r^3F_3$	2825. 196	8	35385. 38	$a^3F_2-q^3F_3$
2895. 675	7	34524. 17	$a^3G_3-r^3F_3$	2824. 87	1	35389. 46	$a^3G_5-v^3I_5$
2895. 50	2w	34526. 26		2824. 60	2	35392. 85	
2894. 168	20, Z	34542. 15	$a^5D_0-x^5D_1$	2824. 224	10	35397. 56	$a^3F_3-s^3G_4$
2893. 254	30, Z	34553. 03	$a^5D_3-x^5D_3$	2823. 80	1	35402. 88	$a^3G_5-x^3I_5$
2891. 42	15, Z	34574. 97	$a^3H_6-t^3H_5$	2823. 08	1d?	35411. 91	$a^3F_3-s^3G_3$
2890. 738	10	34583. 13	$a^3G_3-r^3F_3$	2822. 51	2	35419. 06	$a^3G_4-q^3F_3$
2890. 35	1	34587. 77	$a^5D_2-z^5G_2$	2821. 76	6	35428. 47	$a^3G_4-q^3F_3$
2890. 16	12	34590. 05	$a^3G_4-r^3F_4$	2821. 69	3	35429. 35	$a^3G_5-s^3G_5$
2889. 294	25, Z	34600. 41		2820. 97	2	35438. 39	$a^3F_4-s^3D_3$
2889. 219	10, Z	34601. 31	$a^5D_4-x^5D_4$	2820. 81	15	35440. 40	$b^3G_4-q^3H_5$
2888. 38	7	34611. 36	$a^5D_2-z^5G_3$	2818. 47	12	35469. 82	$a^3G_4-q^3F_4$
2886. 995	25, Z	34627. 96	$a^5D_1-x^5D_2$	2816. 95	7	35488. 96	$a^3G_5-v^3I_5$
2886. 65	2	34632. 10	$a^3P_2-u^3D_1$	2816. 684	12	35492. 30	$a^3G_3-q^3F_3$
2884. 83	4	34653. 95	$a^3G_3-r^3F_4$	2816. 36	1	35496. 39	
2883. 30	2	34672. 34	$a^3H_5-t^3H_4$	2815. 317	2	35509. 54	$a^3F_3-s^3D_3$
2882. 76	3	34678. 83	$a^3P_2-t^3D_2$	2814. 52	10w	35519. 60	$b^3G_3-q^3H_4$
2881. 14	12, Z	34698. 33	$c^3H_5-t^3H_5$	2813. 685	4	35530. 13	$a^3G_4-v^3I_5$
2880. 62	2	34704. 59	$a^5D_1-z^5G_2$	2813. 552	4	35531. 82	$a^5S_2-z^5S_2$
2880. 42	2	34707. 00	$b^3P_2-q^3G_3$	2813. 41	1	35533. 61	$a^3G_3-q^3F_4$
2879. 27	22, Z	34720. 87	$a^5D_2-x^5D_3$	2811. 169	12	35561. 94	$a^3P_0-u^3D_1$
2875. 44	5	34767. 11	$a^3P_2-u^3D_2$	2810. 503	5	35570. 37	$a^3G_4-s^3G_5$
2873. 181	12	34794. 44	$a^3H_4-t^3H_4$	2809. 932	10	35577. 59	$a^3F_2-s^3G_3$
2872. 28	2	34805. 36		2807. 43	1	35609. 30	
2871. 628	22, Z	34813. 26	$a^5D_3-x^5D_4$	2805. 456	1	35634. 35	$a^5G_2-v^5G_2$
2871. 023	3	34820. 60	$a^3H_4-t^3H_5$	2805. 19	2	35637. 73	
2870. 175	10	34830. 88	$a^3P_2-t^3D_3$	2802. 65	8	35670. 02	$a^3G_3-s^3G_4$
2870. 01	10w	34832. 88	$z^7D_5-f^7F_6$	2802. 40	2	35673. 21	
2863. 484	4w	34912. 27		2802. 00	6	35678. 30	

TABLE I. Wavelengths and term combinations of Cr I—Continued

d, Double; *h*, hazy; *H*, very hazy; *l*, shaded longward; *s*, shaded shortward; *r*, reversed; *R*, strongly reversed; *w*, wide; *W*, very wide; *Z*, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination	
2801. 553	3	35683. 99	$\left\{ \begin{array}{l} a^3H_6-w^3I_6^3 \\ a^3G_3-s^3G_3^3 \\ a^5G_4-v^5G_3^3 \\ a^3F_2-s^3D_3^3 \\ a^3P_0-t^3D_1^3 \end{array} \right.$	2757. 086	40 <i>r</i>	36259. 49	$a^5D_2-w^5P_2^3$	
2801. 385	1	35686. 13		2756. 77	10	36263. 64	$a^3G_4-r^3G_5^3$	
2801. 13	15	35689. 38		2755. 29	10	36283. 12		
2799. 743	3	35707. 06		2755. 24	8	36283. 78	$a^5D_4-y^5G_5^3$	
2799. 21	1	35713. 86		2754. 821	15	36289. 30	$a^3G_3-r^3G_4^3$	
2796. 965	1 <i>w</i>	35742. 53		2752. 851	50 <i>r</i>	36315. 27	$a^5D_1-w^5P_1^3$	
2795. 818	12, <i>Z</i>	35757. 19	$a^3H_6-w^3I_7^3$	2752. 21	1	36323. 72	$b^5D_3-q^5D_4^3$	
2795. 263	5	35764. 29	$a^3F_3-s^3H_4^3$	2751. 58	18	36332. 03	$a^5D_2-w^5P_3^3$	
2794. 945	7	35768. 36		2750. 51	2	36346. 17	$b^5D_4-q^5D_4^3$	
2793. 87	2	35782. 12	$a^3G_3-s^3D_3^3$	2748. 58	3	36371. 69	$a^3H_5-v^3I_5^3$	
2793. 78	3	35783. 27		2748. 275	50 <i>r</i>	36375. 74	$\left\{ \begin{array}{l} a^5D_1-w^5P_2^3 \\ a^5D_0-w^5P_1^3 \\ a^3H_5-s^3G_5^3 \\ a^5D_2-y^5G_3^3 \\ a^3H_6-v^3I_7^3 \\ a^3H_5-v^3I_6^3 \end{array} \right.$	
2791. 83	4	35808. 27	$a^3F_4-p^3F_4^3$	2745. 534	1	36412. 04		
2790. 28	12, <i>Z</i>	35828. 15	$a^3H_5-w^3I_3^3$	2742. 98	3	36445. 94		
2790. 092	8	35830. 57	$a^3F_4-s^3H_5^3$	2742. 165	20, <i>Z</i>	36456. 78		
2789. 52	2	35837. 91	$a^5G_5-v^5G_5^3$	2741. 078	22, <i>Z</i>	36471. 23		
2788. 09	3	35856. 30		2739. 395	20, <i>Z</i>	36493. 63	$a^3H_4-v^3I_5^3$	
2787. 843	15, <i>Z</i>	35859. 47		2738. 17	1	36509. 97	$a^5G_5-u^5G_4^3$	
2786. 814	1	35872. 71	$a^3H_4-w^3I_5^3$	2737. 222	8	36522. 60	$a^3P_2-s^3D_3^3$	
2786. 597	4	35875. 51		2736. 463	50 <i>r</i> , <i>Z</i>	36532. 71	$a^5S_2-w^5P_1^3$	
2784. 63	4	35900. 84	$a^3F_4-r^3G_3^3$	2733. 76	2	36568. 85	$a^5G_6-u^5G_5^3$	
2783. 45	5	35916. 06		2733. 51	8	36572. 20	$a^3P_1-x^3S_1^3$	
2782. 988	3	35922. 03	$\left\{ \begin{array}{l} a^3G_5-p^3F_1^3 \\ a^3G_4-p^3F_3^3 \\ a^5G_5-v^5G_5^3 \\ a^3F_4-r^3G_4^3 \\ a^5D_4-w^5P_3^3 \end{array} \right.$	2733. 00	1 <i>h</i>	36579. 02	$a^5G_2-x^5F_1^3$	
2782. 73	1	35925. 36		2732. 95	2	36579. 69	$a^5G_3-p^5F_2^3$	
2781. 15	10	35945. 77		2731. 895	65 <i>r</i> , <i>Z</i>	36593. 81	$a^5S_2-w^5P_2^3$	
2780. 695	60 <i>r</i> , <i>Z</i>	35951. 65		2730. 07	3	36618. 27	$a^5G_4-4_3^3$	
2779. 33	1	35969. 30			2729. 85	3 <i>w</i>	36621. 23	$a^5G_3-4_3^3$
2779. 134	12	35971. 84	$a^3G_5-s^3H_5^3$	2729. 58	2 <i>h</i>	36624. 85	$a^5G_2-4_3^3$	
2778. 213	12	35983. 76	$a^3F_3-r^3G_3^3$	2728. 44	3 <i>h</i>	36640. 16	$z^7F_5^3-f^7F_4^3$	
2777. 664	10 <i>w</i>	35990. 88	$a^3F_4-r^3G_3^3$	2726. 496	75 <i>r</i> , <i>Z</i>	36666. 27	$a^5S_2-w^5P_3^3$	
2776. 603	2	36004. 63	$a^3P_2-x^3S_1^3$	2725. 86	4 <i>w</i>	36674. 83	$z^7F_4^3-f^7F_3^3$	
2775. 89	2	36013. 87	$b^5D_0-q^5D_1^3$	2725. 35	1 <i>h</i>	36681. 69	$a^3H_4-s^3D_3^3$	
2775. 668	12, <i>Z</i>	36016. 76	$a^3F_3-r^3G_4^3$	2723. 90	2 <i>h</i>	36701. 21	$z^7F_5^3-f^7F_5^3$	
2774. 84	1	36027. 50		2722. 98	2 <i>w</i>	36713. 60	$\left\{ \begin{array}{l} a^5G_5-p^5F_1^3 \\ a^5G_4-p^5F_4^3 \\ b^5D_4-s^3H_5^3 \\ a^3F_2-t^3P_2^3 \end{array} \right.$	
2774. 13	2	36036. 72	$a^3G_3-s^3H_4^3$	2722. 085	10	36725. 69		
2773. 67	1 <i>wh</i>	36042. 70		2721. 38	2 <i>h</i>	36735. 20		
2773. 00	5	36051. 40		2719. 10	4	36766. 00		$b^5D_2-r^5P_1^3$
2772. 37	2 <i>wh</i>	36059. 60		2718. 07	7	36779. 93		$a^5D_3-v^5P_2^3$
2771. 449	10, <i>Z</i>	36071. 58	$a^3H_4-x^3H_5^3$	2716. 643	10	36799. 25	$a^3F_4-q^3G_4^3$	
2770. 44	3	36084. 72	$a^3G_5-r^3G_4^3$	2716. 177	20, <i>Z</i>	36805. 57	$a^5D_4-v^5P_3^3$	
2769. 902	50 <i>r</i> , <i>Z</i>	36091. 72	$a^5D_3-w^5P_2^3$	2715. 98	4 <i>w</i>	36808. 23	$\left\{ \begin{array}{l} a^3H_6-s^3H_5^3 \\ a^5G_6-p^5F_5^3 \end{array} \right.$	
2768. 46	2	36110. 52	$\left\{ \begin{array}{l} a^3G_4-s^3H_5^3 \\ b^3G_5-p^3H_5^3 \\ a^3G_5-r^3G_3^3 \\ a^3G_3-p^3F_1^3 \\ b^3G_4-p^3H_4^3 \\ a^3F_2-r^3G_3^3 \\ a^3G_5-s^3H_5^3 \end{array} \right.$	2715. 51	2	36814. 60		$a^3H_5-s^3H_4^3$
2767. 53	7, <i>Z</i>	36122. 66		2714. 834	8	36823. 77		$a^5G_3-t^3F_4^3$
2767. 21	1	36126. 83		2714. 48	4 <i>h</i>	36828. 57		$a^3F_3-q^3G_3^3$
2766. 39	10	36137. 54		2713. 93	3	36836. 04		$z^7F_5^3-f^7F_5^3$
2765. 21	5	36152. 96		2713. 36	6	36843. 78	$z^7F_4^3-f^7F_4^3$	
2765. 03	1	36155. 32		2711. 40	6 <i>w</i> <i>l</i>	36870. 40	$a^3F_3-q^3G_4^3$	
2764. 355	35 <i>r</i>	36164. 15	$a^5D_3-w^5P_3^3$	2710. 19	25 <i>w</i>	36886. 86	$z^7F_6^3-f^7F_6^3$	
2763. 40	2	36176. 64		2708. 24	3	36913. 43	$b^5D_4-o^5F_5^3$	
2763. 09	15	36180. 70	$\left\{ \begin{array}{l} b^3G_4-p^3H_5^3 \\ a^3G_4-r^3G_3^3 \\ b^5D_3-q^5D_3^3 \end{array} \right.$	2708. 14	2	36914. 79		
2762. 38	1	36189. 99		2707. 69	7 <i>w</i>	36920. 92	$a^3P_0-x^3S_1^3$	
2761. 735	40 <i>r</i>	36198. 45		$a^5D_2-w^5P_1^3$	2707. 46	2 <i>h</i>	36924. 06	$\left\{ \begin{array}{l} z^7F_5^3-f^7F_5^3 \\ a^5P_2-t^3D_3^3 \\ a^3H_4-s^3H_4^3 \\ z^7F_3^3-f^7F_3^3 \\ a^5D_4-x^5F_3^3 \\ a^5D_2-v^5P_2^3 \\ a^3H_5-s^3H_5^3 \end{array} \right.$
2759. 84	12	36223. 30	$b^3G_4-p^3H_5^3$	2706. 531	20, <i>Z</i>	36936. 73		
2759. 67	8	36225. 53	$a^3G_4-r^3G_4^3$	2705. 92	2	36945. 07		
2758. 48	3	36241. 16	$a^3H_6-x^3I_6^3$	2705. 724	10	36947. 75		
2758. 236	10	36244. 37	$b^3G_3-p^3H_4^3$	2705. 414	12, <i>Z</i>	36951. 98		

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d, Double; *h*, hazy; *HI*, very hazy; *l*, shaded longward; *s*, shaded shortward; *r*, reversed; *R*, strongly reversed; *w*, wide; *W*, very wide; *Z*, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
2704. 89	15 <i>w</i>	36959. 14		2655. 05	4	37652. 88	$a^3F_4-r^3H_3^{\frac{3}{2}}$
2704. 744	12, <i>Z</i>	36961. 13	$a^3H_6-r^3G_3^{\frac{3}{2}}$	2654. 844	5	37655. 80	$a^3F_3-r^3H_4^{\frac{3}{2}}$
2703. 48	12	36978. 41	$a^5D_4-x^5F_4^{\frac{5}{2}}$	2654. 412	10, <i>Z</i>	37661. 93	
2703. 11	2 <i>h</i>	36983. 47	$z^7F_3-f^7F_4^{\frac{7}{2}}$	2652. 44	4	37689. 93	
2702. 68	2	36989. 35	$a^3F_2-q^3G_3^{\frac{3}{2}}$	2651. 303	7	37706. 09	
2702. 519	15, <i>Z</i>	36991. 56	$a^3H_6-s^3H_6^{\frac{3}{2}}$	2648. 17	2	37750. 70	$a^5D_4-y^3F_4^{\frac{5}{2}}$
2701. 990	30, <i>Z</i>	36998. 80	$a^5D_4-x^5F_2^{\frac{5}{2}}$	2646. 82	1 <i>wh</i>	37769. 95	
2700. 590	20	37017. 98	$a^3G_5-q^3G_3^{\frac{3}{2}}$	2645. 30	2	37791. 65	$a^3G_5-r^3H_3^{\frac{3}{2}}$
2700. 29	3	37022. 09	$a^5D_3-v^5P_3^{\frac{5}{2}}$	2644. 63	1	37801. 23	$a^5D_2-y^3P_1^{\frac{5}{2}}$
2698. 19	2	37050. 91	$a^5P_2-t^3D_1^{\frac{5}{2}}$	2644. 23	7	37806. 95	$a^5D_2-y^3P_2^{\frac{5}{2}}$
2698. 094	4	37052. 23	$a^5D_4-z^3H_4^{\frac{5}{2}}$	2644. 12	5	37808. 52	
2697. 200	8	37064. 50	$a^5D_1-v^5P_2^{\frac{5}{2}}$	2642. 118	20, <i>Z</i>	37837. 17	
2697. 01	15	37067. 11	$a^3H_5-r^3G_4^{\frac{3}{2}}$	2640. 221	5	37864. 35	$a^3H_6-q^3G_3^{\frac{3}{2}}$
2696. 534	20	37073. 66	$a^5S_2-v^5P_1^{\frac{5}{2}}$	2640. 056	7	37866. 72	$a^3G_5-r^3H_6^{\frac{3}{2}}$
2696. 135	10	37079. 15	$a^3G_4-q^3G_4^{\frac{3}{2}}$	2639. 54	5	37874. 12	$a^3G_4-r^3H_4^{\frac{3}{2}}$
2694. 887	10	37096. 31	$a^3G_3-q^3G_3^{\frac{3}{2}}$	2639. 42	7	37875. 84	$a^3D_4-y^3D_3^{\frac{3}{2}}$
2694. 24	2	37105. 22	$a^3H_5-r^3G_3^{\frac{3}{2}}$	2638. 892	15	37883. 42	$a^3P_1-t^3P_0^{\frac{3}{2}}$
2693. 90	5 <i>w</i>	37109. 90	$z^7F_3-f^7F_6^{\frac{7}{2}}$	2637. 168	4	37908. 20	$a^5D_1-y^3P_1^{\frac{5}{2}}$
2693. 62	4 <i>w</i>	37113. 76	$z^7F_4-f^7F_5^{\frac{7}{2}}$	2636. 89	4	37912. 18	$a^5D_1-y^3P_0^{\frac{5}{2}}$
2693. 315	8	37117. 97	$a^3P_1-s^3D_2^{\frac{3}{2}}$	2636. 094	5	37923. 62	$a^5D_1-y^3P_2^{\frac{5}{2}}$
2692. 441	10	37130. 01	$a^5D_3-x^5F_2^{\frac{5}{2}}$	2635. 777	8	37928. 19	$a^3G_3-r^3H_4^{\frac{3}{2}}$
2691. 712	4	37140. 07	$a^3G_4-q^3G_3^{\frac{3}{2}}$	2635. 44	7	37933. 04	$a^3G_4-r^3H_5^{\frac{3}{2}}$
2691. 404	12	37144. 32	$a^3H_4-r^3G_3^{\frac{3}{2}}$	2634. 23	4	37950. 46	
2690. 82	2	37152. 38	$z^7D_2-e^5H_5^{\frac{7}{2}}$	2633. 38	2	37962. 70	$a^5D_3-y^3F_4^{\frac{5}{2}}$
2690. 251	20	37160. 24	$a^5D_3-x^5P_3^{\frac{5}{2}}$	2633. 19	1	37965. 44	
2689. 82	2	37166. 19	$a^3P_1-s^3D_1^{\frac{3}{2}}$	2633. 09	2	37966. 89	$a^3F_4-q^3H_3^{\frac{3}{2}}$
2688. 035	22, <i>Z</i>	37190. 87	$a^5D_3-x^5F_4^{\frac{5}{2}}$	2632. 987	4	37968. 39	$a^5D_0-y^3P_1^{\frac{5}{2}}$
2687. 85	2	37193. 43		2632. 06	5	37981. 74	$a^3H_5-q^3G_3^{\frac{3}{2}}$
2687. 57	2	37197. 30		2629. 815	12	38014. 17	$a^5D_3-y^3D_2^{\frac{5}{2}}$
2686. 608	2	37210. 62		2627. 847	4	38042. 78	$a^3H_4-q^3G_4^{\frac{3}{2}}$
2686. 52	2	37211. 84	$z^7D_3-e^5H_3^{\frac{7}{2}}$	2626. 601	15, <i>Z</i>	38060. 68	$a^5D_4-w^5D_3^{\frac{5}{2}}$
2685. 40	4 <i>h</i>	37227. 36	$a^3H_4-r^3G_3^{\frac{3}{2}}$	2625. 318	15	38079. 28	$a^5D_3-y^3D_3^{\frac{5}{2}}$
2683. 16	4	37258. 44	$a^5D_4-y^5H_3^{\frac{5}{2}}$	2622. 867	18, <i>Z</i>	38114. 87	$a^5D_4-w^5D_4^{\frac{5}{2}}$
2682. 01	10	37274. 41	$a^5D_2-x^5F_1^{\frac{5}{2}}$	2622. 10	1	38126. 01	$a^5S_2-y^3P_1^{\frac{5}{2}}$
2681. 46	18	37282. 06	$a^5S_2-v^5P_2^{\frac{5}{2}}$	2621. 06	1	38141. 14	$a^5S_2-y^3P_2^{\frac{5}{2}}$
2680. 64	2 <i>w</i>	37293. 46		2620. 841	7	38144. 32	$a^3G_5-q^3H_3^{\frac{3}{2}}$
2680. 33	3 <i>w</i>	37297. 78	$a^5D_2-x^5F_2^{\frac{5}{2}}$	2620. 480	12, <i>Z</i>	38149. 57	$a^5D_2-y^3D_1^{\frac{5}{2}}$
2679. 82	4	37304. 87		2619. 978	12	38156. 87	
2679. 28	4 <i>w</i>	37312. 39		2619. 87	2	38158. 46	
2678. 15	12	37328. 13	$a^5D_2-x^5F_3^{\frac{5}{2}}$	2619. 504	8	38163. 79	$a^3P_1-t^3P_1^{\frac{3}{2}}$
2677. 43	3	37338. 17		2618. 273	15	38181. 72	$a^5D_2-y^3D_2^{\frac{5}{2}}$
2675. 955	3 <i>w</i>	37358. 76		2617. 44	1	38193. 88	
2673. 644	12	37391. 04	$a^5D_1-x^5F_1^{\frac{5}{2}}$	2616. 46	3 <i>w</i>	38208. 18	
2671. 980	10	37414. 32	$a^5D_1-x^5F_2^{\frac{5}{2}}$	2614. 18	2	38241. 51	
2671. 17	2	37425. 67		2613. 82	8	38246. 77	$a^3G_4-q^3H_3^{\frac{3}{2}}$
2670. 562	10	37434. 20		2613. 305	10	38254. 31	$a^5D_3-w^5D_2^{\frac{5}{2}}$
2669. 359	12	37451. 06	$a^3P_2-t^3P_1^{\frac{3}{2}}$	2612. 490	7	38266. 24	$a^5D_1-y^3D_1^{\frac{5}{2}}$
2668. 328	1	37465. 53	$a^5D_0-x^5F_1^{\frac{5}{2}}$	2612. 202	8	38270. 46	$a^5D_1-w^5D_0^{\frac{5}{2}}$
2665. 10	5	37510. 90		2612. 009	7	38273. 29	$a^5D_3-w^5D_3^{\frac{5}{2}}$
2664. 818	3	37514. 88	$a^3P_0-s^3D_1^{\frac{3}{2}}$	2611. 75	1	38277. 08	$b^3G_5-p^3G_4^{\frac{3}{2}}$
2664. 44	7	37520. 14		2611. 342	3	38283. 06	$a^3G_3-q^3H_4^{\frac{3}{2}}$
2662. 29	2	37550. 49	$a^5S_2-v^5P_3^{\frac{5}{2}}$	2610. 29	8	38298. 49	$a^5D_1-y^3D_2^{\frac{5}{2}}$
2660. 006	8 <i>w</i>	37582. 73		2609. 84	1	38305. 10	$b^3G_4-p^3G_3^{\frac{3}{2}}$
2657. 23	1	37621. 99	$a^3P_2-t^3P_2^{\frac{3}{2}}$	2608. 385	10	38326. 46	$a^5D_0-y^3D_1^{\frac{5}{2}}$
2656. 02	4	37638. 99	$a^5D_3-y^3P_2^{\frac{5}{2}}$	2605. 82	6	38364. 19	$a^3P_0-t^3P_1^{\frac{3}{2}}$
							$b^3G_5-p^3G_3^{\frac{3}{2}}$

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d, Double; *h*, hazy; *H*, very hazy; *l*, shaded longward; *s*, shaded shortward; *r*, reversed; *R*, strongly reversed; *w*, wide; *W*, very wide; *Z*, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
2605.36	7	38370.96	$a^5D_2-w^5D_1^{\ddagger}$	2560.86	2	39037.68	
2604.71	3	38380.53	$a^5D_4-w^5F_3^{\ddagger}$	2560.695	30, <i>Z</i>	39040.18	$a^5D_2-u^5P_2^{\ddagger}$
2604.08	2 <i>w</i>	38389.82	$b^3G_4-p^3G_4^{\ddagger}$	2560.28	4	39046.53	
2603.56	10	38397.49	$a^5D_4-w^5F_3^{\ddagger}$	2559.01	1	39065.90	
2602.62	1	38411.35	$b^3G_3-p^3G_3^{\ddagger}$	2557.82	1	39084.08	$a^5S_2-w^5F_2^{\ddagger}$
2602.50	6	38413.12	$a^5D_4-w^5F_4^{\ddagger}$	2557.56	4	39088.05	$a^3H_5-g^3H_3^{\ddagger}$
2602.19	3	38417.70		2557.144	25, <i>Z</i>	39094.40	$a^5D_2-u^5P_1^{\ddagger}$
2601.88	4	38422.28	$a^5D_2-w^5D_2^{\ddagger}$	2556.40	2	39105.79	$a^5D_3-x^5G_4^{\ddagger}$
2600.61	8	38441.04	$a^5D_2-w^5D_3^{\ddagger}$	2555.50	10	39119.56	$a^5D_2-x^5G_2^{\ddagger}$
2595.75	1	38513.01		2555.42	6 <i>w</i>	39120.78	$a^5P_3-p^3F_4^{\ddagger}$
2594.02	8	38538.69	$a^5D_1-w^5D_2^{\ddagger}$	2555.29	1	39145.29	$a^5D_2-y^3G_3^{\ddagger}$
2593.41	8	38547.75	$a^5D_0-w^5D_1^{\ddagger}$	2553.82	15	39156.88	$a^5D_1-u^5P_2^{\ddagger}$
2591.84	50 <i>r</i> , <i>Z</i>	38571.11	$a^5D_4-u^5P_3^{\ddagger}$	2553.064	10	39161.08	$a^5D_2-z^3S_1^{\ddagger}$
2591.16	2	38581.23	$a^5S_2-y^3D_3^{\ddagger}$	2552.79	2 <i>w</i>	39172.44	$z^7P_4^{\ddagger}-f^5G_4^{\ddagger}$
2590.95	1	38584.35		2552.05	2	39183.03	$z^3H_4-q^3H_4^{\ddagger}$
2590.83	1	38586.14		2551.36	8	39198.33	$a^5D_2-x^5G_3^{\ddagger}$
2590.37	2	38593.00	$a^5D_3-w^5F_3^{\ddagger}$	2550.364	40, <i>Z</i>	39210.88	$a^5D_1-u^5P_1^{\ddagger}$
2590.07	5	38597.46	$a^5D_4-z^3G_4^{\ddagger}$	2549.548	8	39236.73	$a^5D_1-x^5G_2^{\ddagger}$
2588.19	12	38625.49	$a^5D_3-w^5F_4^{\ddagger}$	2547.868	5 <i>w</i>	39246.93	
2587.88	2	38630.12	$a^3H_6-r^3H_3^{\ddagger}$	2547.206	5 <i>w</i>	39260.07	$a^5P_2-r^5P_2^{\ddagger}$
2587.50	3	38635.79		2546.353	12, <i>Z</i>	39270.99	$z^7P_3^{\ddagger}-f^5G_2^{\ddagger}$
2584.67	10	38678.10	$a^5D_4-z^3G_3^{\ddagger}$	2545.645	10	39277.70	$a^5D_0-u^5P_1^{\ddagger}$
2583.02	8 <i>w</i>	38702.80	$a^3H_6-r^3H_3^{\ddagger}$	2545.21	15	39285.54	$a^5D_1-z^3S_1^{\ddagger}$
2580.48	2	38740.89	$a^5D_4-y^3G_3^{\ddagger}$	2544.702	6 <i>w</i>	39310.13	$a^5S_2-u^5P_3^{\ddagger}$
2580.04	7	38747.50	$a^5D_4-y^3G_4^{\ddagger}$	2543.11	3	39313.81	$a^5D_4-x^5H_3^{\ddagger}$
2579.90	4	38749.60	$a^5D_2-w^5F_2^{\ddagger}$	2542.872	3	39328.69	$a^5D_4-v^5F_3^{\ddagger}$
2579.77	4	38751.55	$a^5D_2-w^5F_1^{\ddagger}$	2541.91	8	39332.25	$a^5D_4-v^5F_2^{\ddagger}$
2579.14	12, <i>Z</i>	38761.02	$a^5D_3-z^3G_3^{\ddagger}$	2541.68	20 <i>r</i>	39337.22	$a^5D_4-v^5F_1^{\ddagger}$
2578.27	10, <i>Z</i>	38774.10	$a^5D_2-w^5F_3^{\ddagger}$	2541.359	2 <i>w</i>	39350.83	$a^5D_0-z^3S_1^{\ddagger}$
2577.66	20 <i>r</i> , <i>Z</i>	38783.28	$a^3H_5-r^3H_3^{\ddagger}$	2540.48	2 <i>w</i>	39357.80	$a^5P_2-r^5P_3^{\ddagger}$
2577.66	20 <i>r</i> , <i>Z</i>	38783.28	$a^5D_3-u^5P_3^{\ddagger}$	2540.03	2 <i>w</i>	39357.80	$a^5P_3-r^5P_3^{\ddagger}$
2576.99	2	38793.35		2538.95	12	39374.54	$a^5S_2-u^5P_2^{\ddagger}$
2575.89	8	38809.92	$a^5D_3-z^3G_4^{\ddagger}$	2538.53	2	39381.05	$a^5D_4-x^5H_4^{\ddagger}$
2575.60	2	38814.29		2537.61	1	39395.33	
2575.11	2 <i>Al?</i>	38821.67		2536.50	2	39412.57	
2574.68	10	38828.16	$a^3H_4-r^3H_4^{\ddagger}$	2536.21	3 <i>w</i>	39417.07	
2572.15	12, <i>Z</i>	38866.35	$a^5D_1-w^5F_2^{\ddagger}$	2535.96	6	39420.96	
2572.07	5	38867.56	$a^5D_1-w^5F_1^{\ddagger}$	2535.47	10	39428.57	$a^5S_2-u^5P_1^{\ddagger}$
2571.74	30 <i>r</i> , <i>Z</i>	38872.54	$a^5D_3-u^5P_2^{\ddagger}$	2533.35	3 <i>w</i>	39461.57	
2571.10	4	38882.22	$a^5D_4-x^5G_4^{\ddagger}$	2532.17	2	39479.96	
2570.17	1	38896.29	$a^3H_4-r^3H_3^{\ddagger}$	2531.82	3	39485.41	
2569.89	2	38900.52		2531.76	5	39486.35	$a^5D_4-x^5H_3^{\ddagger}$
2568.66	5	38919.15	$a^5D_2-z^3G_3^{\ddagger}$	2530.44	15	39506.95	$a^5D_4-v^5D_3^{\ddagger}$
2568.52	8	38921.27	$a^5D_4-x^5G_3^{\ddagger}$	2529.20	5	39526.32	$a^5D_3-x^5H_3^{\ddagger}$
2568.29	3	38924.76		2528.96	5	39530.06	
2568.098	12	38927.65	$a^5D_0-w^5F_1^{\ddagger}$	2528.56	8	39536.32	$a^5D_3-v^5F_2^{\ddagger}$
2566.55	12, <i>Z</i>	38951.14	$a^5D_2-u^5P_3^{\ddagger}$	2528.25	10	39541.17	$a^5D_3-v^5F_3^{\ddagger}$
2566.41	1	38953.27	$a^5D_3-y^3G_3^{\ddagger}$	2528.02	15	39544.76	$a^5D_3-v^5F_4^{\ddagger}$
2566.00	10	38959.49	$a^5D_3-y^3G_4^{\ddagger}$	2527.57	1	39551.80	
2565.51	5 <i>w</i>	38966.93	$a^3G_5-p^3H_3^{\ddagger}$	2527.11	20 <i>r</i> , <i>Z</i>	39559.00	$a^5D_4-v^5D_4^{\ddagger}$
2565.21	3	38971.49	$a^5P_2-p^3F_3^{\ddagger}$	2526.55	2 <i>w</i>	39567.77	
2564.65	6	38979.99		2523.44	2	39616.53	
2564.47	7	38982.74	$a^3H_6-q^3H_3^{\ddagger}$	2522.23	2 <i>w</i>	39635.54	
2563.67	2	38995.00		2520.23	6	39666.99	$a^5D_4-u^5F_3^{\ddagger}$
2561.38	4	39029.76	$a^3G_4-p^3H_3^{\ddagger}$	2519.51	50 <i>r</i> , <i>Z</i>	39678.32	$a^5D_4-u^5F_2^{\ddagger}$
2561.33	5	39030.42	$a^5D_3-x^5G_3^{\ddagger}$	2518.71	12	39690.92	$a^5D_3-v^5D_2^{\ddagger}$

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d, Double; h, hazy; H, very hazy; l, shaded longward; s, shaded shortward; r, reversed; R, strongly reversed; w, wide; W, very wide; Z, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
2518.52	4	39693.92	$a^5D_2-x^5H_3$	2485.04	1w	40228.66	
2517.99	2	39702.27	$a^5D_2-v^5F_1$	2484.86	4	40231.57	
2517.87	6	39704.16	$a^5D_2-v^5F_2$	2482.62	1w	40267.87	
2517.57	10	39708.89	$a^5D_2-v^5F_3$	2482.25	3w	40273.87	
2516.92	20r, Z	39719.15	$a^5D_3-v^5D_3$	2482.03	3w	40277.84	
2516.42	1	39727.04	$a^3H_6-p^3H_5$	2481.65	2w	40283.61	$a^5D_2-t^5F_1$
2515.90	7	39735.25	$a^5D_4-t^5F_1$	2481.23	10	40290.42	$a^5D_2-t^5F_2$
2514.73	2	39753.74		2480.10	2	40308.78	
2513.62	15	39771.29	$a^5D_3-v^5D_4$	2479.94	1	40311.38	
2511.96	15	39797.57	$a^3H_6-p^3H_5$	2479.14	15	40324.39	$a^5D_2-t^5F_3$
2511.01	3	39812.63		2476.07	1	40374.38	
2510.63	6	39818.65	$a^5D_1-v^5F_1$	2474.55	8	40399.18	$a^5D_1-t^5F_1$
2510.49	8	39820.86	$a^5D_1-v^5F_2$	2474.27	4	40403.75	$a^5D_2-x^3P_1$
2510.37	2	39822.77	$a^5D_3-u^5F_2$	2474.08	15	40406.85	$a^5D_1-t^5F_2$
2508.97	15, Z	39844.99	$a^5D_2-v^5D_1$	2473.53	1w	40415.84	$a^5D_1-x^3P_0$
2508.11	18, Z	39858.65	$a^5D_2-v^5D_2$	2470.88	12	40459.18	$a^5D_0-t^5F_1$
2507.32	12	39871.21	$a^3H_5-p^3H_5$	2470.27	1	40469.17	
2506.82	25, Z	39879.16	$a^5D_0-v^5F_1$	2470.06	1w	40472.61	
2506.45	2	39885.05	$a^5D_3-u^5F_3$	2469.70	4	40478.51	$a^5D_4-x^3G_3$
2506.33	4	39886.96	$a^5D_2-v^5D_3$	2469.35	2w	40484.25	$a^5G_5-s^3H_5$ $a^5G_4-s^3H_3$
2505.99	1w	39892.37		2468.33	10w	40500.97	
2505.37	4w	39902.24		2467.14	8	40520.52	$a^5D_1-x^3P_1$
2505.00	10	39908.14	$a^3H_4-p^3H_4$	2466.49	7	40531.18	$a^5D_2-x^3P_2$
2504.31	40r, Z	39919.13	$a^5D_3-u^5F_4$	2466.34	1	40533.65	
2502.89	3	39941.78	$a^3H_5-p^3H_5$	2465.90	2	40540.88	$a^5D_3-1_3$
2502.72	2	39944.49	$a^5D_4-t^5F_3$	2465.74	4w	40543.51	
2502.55	25r, Z	39947.20	$a^5D_3-t^5F_4$	2465.50	5w	40547.46	
2502.27	1w	39951.68		2465.30	3w	40550.75	
2501.91	4w	39957.42		2464.00	1w	40572.14	
2501.65	10	39961.57	$a^5D_1-v^5D_1$	2463.49	5	40580.54	$a^5D_0-x^3P_1$
2500.79	4	39975.32	$a^5D_1-v^5D_2$	2463.37	2w	40582.51	
2500.66	12	39977.39	$a^5D_1-v^5D_0$	2460.96	2w	40622.26	
2500.44	2	39980.91	$a^5D_4-y^3H_4$	2460.20	3	40634.80	
2499.84	15	39990.50	$a^5D_2-u^5F_2$	2458.74	2	40658.93	$a^5S_2-t^5F_3$
2499.66	2	39993.39	$a^3H_4-p^3H_3$	2458.43	3w	40664.06	
2499.56	4	39994.99		2457.86	4w	40673.49	
2499.34	4	39998.50		2457.08	4w	40686.40	
2497.91	10	40021.40	$a^5D_0-v^5D_1$	2456.54	1	40695.34	
2497.15	5w	40033.58		2456.28	8	40699.65	
2496.30	35r, Z	40047.21	$a^5D_2-u^5F_3$	2455.71	2	40709.09	$a^5D_2-1_3$
2495.68	3w	40057.16		2455.67	1	40709.76	
2495.08	20	40066.79	$a^5D_1-u^5F_1$	2453.14	2	40751.74	
2493.89	4	40085.91		2453.08	1	40752.74	
2493.75	2	40088.16		2452.11	2	40768.85	
2493.60	8	40090.57		2451.51	3	40778.83	
2492.57	30, Z	40107.30	$a^5D_1-u^5F_2$	2451.36	3	40781.33	
2491.35	20, Z	40126.78	$a^5D_0-u^5F_1$	2449.81	3wh	40807.13	
2489.48	8	40156.91	$a^5D_3-t^5F_3$	2449.25	2w	40816.46	
2488.96	2w	40165.30		2447.90	1	40838.97	
2488.81	2w	40167.72		2447.11	2	40852.15	
2488.62	1w	40170.79		2446.29	2	40865.84	$a^5S_2-x^3P_2$
2487.24	2	40193.08	$a^5D_3-y^3H_4$ $a^5S_2-v^5D_2$	2445.76	1	40874.70	
2486.97	2w	40197.44		2443.25	2	40916.69	$a^3F_4-p^3G_4$
2485.83	4	40215.87		2442.31	2	40932.43	$a^5D_3-x^3D_2$
2485.48	2	40221.53	$a^5S_2-v^5D_3$	2441.30	3wh	40949.36	

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d, Double; h, hazy; H, very hazy; l, shaded longward; s, shaded shortward; r, reversed; R, strongly reversed; w, wide; W, very wide; Z, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
2439.02	7	40987.64	$a^3F_3-p^3G_4$	2386.18	10	41895.20	$a^5D_2-y^5S_2$
2438.76	2	40992.01		2385.72	7wh	41903.28	$a^5D_4-s^5F_4$
2438.22	2w	41001.09		2384.28	1wh	41926.83	$a^5S_2-w^5G_3$
2438.10	3w	41003.10	$\left\{ \begin{array}{l} a^3F_4-p^3G_5 \\ a^5D_4-x^3D_3 \end{array} \right.$	2383.303	40r	41945.77	$a^5D_4-s^5F_5$
2435.69	1	41043.67		$a^7S_3-x^5P_3$	2382.67	1	41956.91
2435.59	1w	41045.36		2382.36	7w	41962.37	$a^5D_3-s^5F_2$
2434.98	1	41055.64	$a^3G_5-p^3G_4$	2382.18	1	41965.54	
2434.36	2wh	41066.09		2381.36	7	41979.99	$a^3H_3-p^3G_5$
2434.22	4	41068.46	$a^3F_2-p^3G_3$	2380.46	7	41995.86	$a^5S_2-t^5P_1$
2432.99	3	41089.21	$a^5D_0-x^3D_1$	2379.95	10	42004.86	$a^5S_2-t^5P_2$
2431.67	3	41111.52	$a^3G_4-p^3G_3$	2379.85	10ws	42006.62	$a^5D_3-s^5F_3$
2429.89	6w	41141.63	$a^3G_5-p^3G_5$	2379.56	8	42011.74	$a^5D_1-y^5S_2$
2428.89	4w	41158.57	$a^5G_2-t^3P_2$	2379.17	1	42018.63	
2427.92	8	41175.02	$a^3G_3-p^3G_3$	2378.07	20	42037.89	$a^3H_5-p^3G_4$
2426.66	7	41196.40	$a^3G_4-p^3G_4$	2377.94	10rh	42040.36	
2425.52	2	41215.75	$a^5D_3-x^3D_3$	2375.98	7	42075.04	$a^3H_4-p^3G_3$
2425.46	1	41216.77	$a^5D_1-x^3D_2$	2375.41	40wh	42085.13	
2424.65	3	41230.54	$a^5D_4-w^3G_5$	2375.06	5	42091.34	$a^5D_2-s^5F_1$
2423.24	10w	41254.53		2373.69	50rh	42115.63	$a^5D_3-s^5F_4$
2422.57	12	41265.94	$a^5D_4-w^5G_4$	2373.12	1w, A1?	42125.74	
2421.71	10	41280.59		2372.88	20r	42130.00	$a^5D_2-s^5F_2$
2421.31	1	41287.41		2371.18	2	42160.20	$a^3H_4-p^3G_4$
2421.16	1w	41289.97		2370.66	3	42169.45	$a^5D_3-w^3D_3$
2419.98	8	41310.10	$a^5D_4-w^5G_3$	2370.37	35r	42174.61	$a^5D_2-s^5F_3$
2419.82	2	41312.73	$a^5D_4-x^3F_4$	2368.49	12	42208.09	$a^5D_1-s^5F_1$
2419.30	1	41321.71		2368.46	3	42208.62	
2418.56	1wh	41334.35		2367.86	10	42219.31	$a^5S_2-t^5P_3$
2415.41	2	41388.25		2367.29	3	42229.48	$a^5S_2-y^5S_3$
2415.09	2w	41393.73		2366.81	100r	42238.04	$a^7S_3-x^7P_2$
2412.33	1w	41441.09		2366.31	50	42246.97	$a^5D_1-s^5F_2$
2410.18	2	41478.05	$a^5D_3-w^5G_4$	2366.14	25	42250.00	$a^5D_4-u^5D_4$
2408.72	35r	41503.19	$a^5D_3-t^5P_2$	2365.91	125r	42254.11	$a^7S_3-x^7P_3$
2408.60	50r	41505.26	$a^5D_4-t^5P_3$	2365.13	5	42268.04	$a^5D_0-s^5F_1$
2407.41	8	41525.78	$a^5D_3-x^3F_4$	2364.73	150r	42275.19	$a^7S_3-x^7P_4$
2406.03	5	41549.59	$a^5D_2-y^3S_1$	2362.19	15	42320.64	$a^5D_4-u^5D_3$
2405.70	2	41555.29	$a^5D_3-x^3F_3$	2361.59	2wh	42331.39	
2403.92	1	41586.06		2355.98	1	42432.18	
2401.81	1	41622.59		2354.93	1w	42451.11	
2399.56	20	41661.61	$a^5D_2-t^5P_1$	2354.30	15	42462.46	$a^5D_3-u^5D_4$
2399.29	3	41666.30	$a^5D_1-y^3S_1$	2352.93	5wh	42487.19	
2399.02	20r	41670.99	$a^5D_2-t^5P_2$	2350.82	1w	42525.31	
2397.19	1	41702.80		2350.40	12	42532.91	$a^5D_3-u^5D_3$
2396.36	30r	41717.25	$a^5D_3-t^5P_3$	2349.83	4	42543.23	
2396.04	7	41722.81	$a^5D_2-x^3F_3$	2349.06	1	42557.17	
2395.89	2	41725.82	$a^5D_2-x^3F_2$	2348.92	25	42559.71	$a^5D_3-u^5D_2$
2395.84	2	41726.29	$a^5D_0-y^3S_1$	2348.46	1w	42568.04	
2395.77	8	41727.51	$a^5D_3-y^5S_2$	2346.53	3wh	42603.05	
2392.86	25r	41778.25	$a^5D_1-t^5P_1$	2345.91	1wh	42614.31	
2392.34	10w	41787.33	$a^5D_1-t^5P_2$	2344.34	1	42642.85	$a^5D_4-w^3F_3$
2391.95	3w	41794.15	$a^5D_4-s^5F_3$	2344.04	1	42648.30	$a^7S_3-x^5D_3$
2390.09	4wh	41826.67		2343.68	4w	42654.85	
2389.43	10w	41838.22	$a^5D_0-t^5P_1$	2342.54	3w	42675.61	
2389.21	3w	41842.07	$a^5D_1-x^3F_2$	2342.11	5w	42683.45	
2387.46	2wh	41872.74	$a^5S_2-w^5G_3$	2341.17	20	42700.58	$a^5D_2-u^5D_3$
2386.77	7w	41884.84	$a^5D_2-t^5P_3$	2339.71	4	42727.22	$a^5D_2-u^5D_2$

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d, Double; *h*, hazy; *II*, very hazy; *l*, shaded longward; *s*, shaded shortward; *r*, reversed; *R*, strongly reversed; *w*, wide; *W*, very wide; *Z*, Zeeman pattern in table 2.

Wavelength λ_{air}	Intensity	Wave No.	Term combination	Wavelength λ_{air}	Intensity	Wave No.	Term combination
2339. 27	15	42735. 26	$a^5D_2-u^5D_1^+$	2160. 50	4	46270. 99	$a^5D_2-q^5F_1^+$
2338. 34	2	42752. 25	$a^5D_4-w^3F_4^+$	2158. 00	15	46324. 59	$a^5D_2-q^5F_2^+$
2337. 82	4	42761. 76		2157. 74	30	46330. 17	$a^5D_3-q^5F_4^+$
2333. 33	8	42844. 04	$a^5D_1-u^5D_2^+$	2155. 09	15	46387. 14	$a^5D_1-q^5F_1^+$
2332. 98	7	42850. 47	$a^5D_1-u^5D_0^+$	2154. 44	25	46401. 13	$a^5D_2-q^5F_3^+$
2332. 71	1	42855. 43					
2330. 71	8	42892. 20	$a^5D_3-w^3F_3^+$	2152. 57	15	46441. 43	$a^5D_1-q^5F_2^+$
2329. 63	10	42912. 08	$a^5D_0-u^5D_1^+$	2152. 27	10	46447. 91	$a^5D_0-q^5F_1^+$
2327. 26	3	42955. 78		2150. 25	1	46491. 54	$a^5D_4-w^3H_3^+$
2326. 21	2 <i>w</i>	42975. 16		2148. 02	10	46539. 80	$a^5S_2-s^3P_3^+$
				2144. 24	1	46621. 83	$a^5D_4-v^3H_3^+$
2324. 45	2 <i>w</i>	43007. 70					
2324. 22	1	43011. 96		2106. 35	3	47460. 38	
2322. 97	2	43035. 10	$a^5S_2-u^5D_3^+$	2095. 83	8 <i>h</i>	47698. 58	$a^7S_3-w^1P_2^+$
2320. 39	3	43082. 94		2095. 40	10 <i>h</i>	47708. 36	$a^7S_3-w^1P_3^+$
2311. 46	4	43249. 38		2095. 00	12 <i>h</i>	47717. 47	$a^7S_3-w^1P_4^+$
				2084. 08	10	47967. 46	
2307. 71	1	43319. 65	$a^5D_2-w^3P_1^+$				
2305. 60	2	43359. 29	$a^5D_2-w^3P_2^+$	2049. 31	8	48781. 20	$a^5D_4-u^3G_3^+$
2305. 23	2	43366. 25	$a^5D_1-w^3P_0^+$	2043. 06	10	48930. 41	$a^5D_4-p^3F_4^+$
2299. 42	1	43475. 81	$a^5D_1-w^3P_2^+$	2042. 72	8	48938. 55	$a^5D_3-u^3G_4^+$
2298. 34	1	43496. 24	$a^5D_0-w^3P_1^+$	2039. 30	35	49020. 61	$a^5D_4-p^3F_5^+$
				2038. 98	1	49028. 30	$a^5D_4-t^3F_4^+$
2293. 86	1	43581. 18					
2291. 74	10	43621. 49		2038. 21	7	49046. 83	$a^5D_3-4_3^+$
2288. 11	3	43690. 69		2037. 72	1	49058. 62	$a^5D_2-u^3G_3^+$
2286. 37	20	43723. 94	$a^5D_4-t^5D_3^+$	2036. 34	8	49091. 86	$a^5D_3-p^3F_3^+$
2285. 88	25	43733. 30		2034. 24	35	49142. 53	$a^5D_3-p^3F_4^+$
				2032. 95	5	49173. 71	$a^5D_2-p^3F_2^+$
2284. 67	25	43756. 46	$a^5D_4-t^5D_4^+$				
2284. 50	7	43759. 72		2032. 65	1	49180. 96	$a^5D_3-t^3F_3^+$
2281. 71	20 <i>w</i>	43813. 22		2031. 27	15	49214. 37	$a^5D_2-4_3^+$
2276. 31	18	43917. 15	$a^5D_3-t^5D_2^+$	2030. 15	1	49241. 52	$a^5D_3-t^3F_4^+$
2276. 01	15	43922. 94		2029. 42	15	49259. 23	$a^5D_2-p^3F_3^+$
				2028. 33	10	49285. 70	$a^5D_1-p^3F_1^+$
2275. 31	25	43936. 45	$a^5D_3-t^5D_3^+$				
2273. 62	18	43969. 10	$a^5D_3-t^5D_4^+$	2028. 13	12	49290. 56	$a^5D_1-p^3F_2^+$
2271. 29	3 <i>w</i>	44014. 21		2026. 44	12	49331. 66	
2268. 13	18	44075. 52	$a^5D_2-t^5D_1^+$	2025. 86	15	49345. 78	$a^5D_0-p^3F_1^+$
2267. 64	15	44085. 04	$a^5D_2-t^5D_2^+$	2005. 76	10	49840. 21	$a^5D_4-r^3D_3^+$
				2004. 94	8	49860. 59	$a^5D_4-s^3F_4^+$
2267. 07	6	44096. 13					
2266. 66	18	44104. 10	$a^5D_2-t^5D_3^+$	2003. 55	5	49895. 18	$a^5D_4-s^3F_3^+$
2264. 00	5	44155. 92		2000. 60	20	49968. 74	$a^5D_3-r^3D_2^+$
2262. 32	15	44188. 70	$a^5D_1-t^5D_0^+$	1999. 95	35	49985. 00	$a^5D_4-r^3D_3^+$
2262. 15	7	44192. 02	$a^5D_1-t^5D_1^+$	1997. 25	12	50052. 56	$a^5D_3-r^3D_4^+$
2261. 68	18	44201. 40	$a^5D_1-t^5D_2^+$	1996. 65	10	50067. 59	$a^5D_2-r^3D_1^+$
2259. 08	12	44252. 07	$a^5D_0-t^5D_1^+$				$a^5D_3-s^3F_2^+$
2228. 22	18	44864. 88	$a^5D_4-r^3F_5^+$				
2220. 42	10	45022. 47	$a^5D_3-r^3F_3^+$	1996. 44	5	50072. 86	$a^5D_3-s^3F_4^+$
2214. 31	8	45146. 69	$a^5D_2-r^3F_3^+$	1995. 04	5	50107. 98	$a^5D_3-s^3F_3^+$
				1993. 90	15	50136. 62	$a^5D_2-r^3D_2^+$
2210. 38	7	45226. 95	$a^5D_1-r^3F_2^+$	1993. 45	8	50147. 94	$a^5D_1-r^3D_0^+$
2208. 76	5	45260. 11	$a^5D_0-r^3F_1^+$	1992. 00	5	50184. 43	$a^5D_1-r^3D_1^+$
2205. 20	15	45333. 17	$a^5D_4-s^3D_3^+$				
2198. 32	22	45475. 03	$a^5D_4-s^3D_4^+$				
2194. 90	18	45545. 88	$a^5D_3-s^3D_3^+$	1991. 47	6	50197. 78	$a^5D_3-r^3D_4^+$
				1990. 57	15	50220. 47	$a^5D_2-r^3D_3^+$
2191. 64	8	45613. 63	$a^5D_2-s^3D_2^+$	1989. 62	8	50244. 44	$a^5D_0-r^3D_1^+$
2188. 09	6	45687. 62	$a^5D_3-s^3D_4^+$	1989. 27	15	50253. 28	$a^5D_1-r^3D_2^+$
2186. 87	5	45713. 10	$a^5D_2-s^3D_3^+$	1988. 35	4	50276. 52	$a^5D_2-s^3F_3^+$
2185. 99	4	45731. 49	$a^5D_1-s^3D_2^+$				
2181. 53	4	45825. 00	$a^5D_4-s^3P_3^+$	$\lambda_{\text{vac.}}$			
				1916. 23	2	52185. 8	$a^5D_4-q^3D_3^+$
2176. 19	3	45937. 42	$a^5D_3-s^3P_2^+$	1912. 79	4	52274. 2	$a^5D_3-q^3D_2^+$
2171. 44	4	46037. 90	$a^5D_3-s^3P_3^+$	1911. 30	7	52320. 4	$a^5D_4-q^3D_4^+$
2167. 68	4	46117. 75	$a^5D_4-q^3F_4^+$	1909. 72	2	52363. 7	$a^5D_2-q^3D_1^+$
2162. 47	30	46228. 85	$a^5D_4-q^3F_3^+$	1908. 46	4	52398. 3	$a^5D_3-q^3D_3^+$
2162. 25	10	46233. 55	$a^5D_3-q^3F_5^+$				

TABLE 1. Wavelengths and term combinations of Cr I—Continued

d, Double; *h*, hazy; *H*, very hazy; *l*, shaded longward; *s*, shaded shortward; *r*, reversed; *R*, strongly reversed; *w*, wide; *W*, very wide; *Z*, Zeeman pattern in table 2.

Wavelength $\lambda_{vac.}$	Intensity	Wave No.	Term combination	Wavelength $\lambda_{vac.}$	Intensity	Wave No.	Term combination
1907. 28	2	52430. 7	$a^5D_1 - q^5D_0^{\ddagger}$	1888. 17	3	52961. 3	$a^5D_3 - o^5F_4^{\ddagger}$
1906. 67	2	52447. 5	$a^5D_2 - q^5D_3^{\ddagger}$	1887. 85	1	52970. 3	$a^5D_1 - o^5F_{3/2}^{\ddagger}$
1903. 57	1	52532. 9	$a^5D_3 - q^5D_1^{\ddagger}$	1887. 60	3	52977. 3	$a^5D_2 - o^5F_{3/2}^{\ddagger}$
1903. 30	1	52540. 3	$a^5D_0 - q^5D_1^{\ddagger}$	1886. 34	10	53012. 7	$a^5D_3 - r^5P_{3/2}^{\ddagger}$
1902. 43	3	52564. 4	$\left\{ \begin{array}{l} a^5D_1 - q^5D_3^{\ddagger} \\ a^5D_2 - q^5D_3^{\ddagger} \end{array} \right.$	1883. 11	1	53103. 5	$a^5D_3 - r^5P_{3/2}^{\ddagger}$
1895. 78	1	52748. 7	$a^5D_4 - o^5F_4^{\ddagger}$	1881. 87	5	53138. 6	$a^5D_2 - r^5P_1^{\ddagger}$
1893. 59	1	52809. 7	$a^5D_3 - o^5F_{3/2}^{\ddagger}$	1880. 39	1	53180. 5	$a^5D_2 - r^5P_{3/2}^{\ddagger}$
1892. 01	1	52853. 8	$a^5D_2 - o^5F_{3/2}^{\ddagger}$				
1890. 78	6	52888. 2	$a^5D_4 - o^5F_{3/2}^{\ddagger}$				
1889. 20	1	52932. 5	$a^5D_0 - o^5F_1^{\ddagger}$				

TABLE 2. Zeeman effect of Cr I

Wave-lengths	Magnetic patterns	Wave-lengths	Magnetic patterns	Wave-lengths	Magnetic patterns
6661. 10	(0.00) 1.50 [†]	5272. 01	(0.00) 0.93 [†]	4823. 90	(0.000) 1.323
6362. 87	(0.29) 0.72 [†]	5264. 16	(1.00) 1.53, 2.24 [†]	4816. 13	(0.000) 2.285
6330. 13	(0.00) 1.82 [†]	5261. 76	(0.00) 1.09 [†]	4814. 25	(0.00) 1.10 [†]
6102. 70	(0.00) 1.02 [†]	5255. 12	(0.00) 1.32 [†]	4810. 71	(0.00) 0.71 [†]
5796. 74	(0.00) 0.87 [†]	5254. 92	(0.00) 1.47 [†]	4810. 58	(0.00) 1.30 [†]
5791. 00	(0.00) 1.05A [†]	5247. 58	(0.00) 2.50 [†]	4801. 02	(0.00) 1.38B [†]
5753. 66	(0.00) 1.01 [†]	5243. 38	(0.00) 1.04, 2.07 [†]	4792. 49	(0.000, 0.288, 0.568) 0.683, 0.967, 1.255, 1.545
5712. 77	(0.00) 1.50 [†]	5238. 97	(0.00) 1.22 [†]	4766. 63	(0.00) 0.77 [†]
5712. 62	(0.00) 1.16 [†]	5225. 05	(0.00) 1.67 [†]	4764. 28	(0.00) 1.07A [†]
5702. 30	(0.00) 1.04 [†]	5224. 97	(0.00) 1.64 [†]	4756. 09	(0.000w) 0.988w
5698. 32	(0.00) 1.08 [†]	5221. 76	(0.00) 1.36 [†]	4752. 06	(0.000) 1.004
5694. 72	(0.00) 0.98A [†]	5208. 42	P-B	4745. 31	(0.000) 1.006
5664. 04	(0.00) 1.01 [†]	5206. 02	P-B	4737. 33	(0.000) 1.135
5628. 64	(0.00) 0.93 [†]	5204. 50	P-B	4730. 69	(0.000, 0.180, 0.375) 0.679, 0.863, 1.047, 1.234
5480. 50	(0.00) 1.07 [†]	5200. 20	(0.00, 0.99) 1.02, 2.07 [†]	4729. 71	(0.000) 1.184
5463. 93	(0.00) 0.99A [†]	5193. 49	(0.00) 0.80 [†]	4727. 13	(0.00) 1.22 [†]
5442. 40	(0.00) 0.82 [†]	5192. 01	(0.00) 1.37A [†]	4724. 40	(?) 1.26 [†]
5409. 78	P-B	5177. 42	(0.00) 1.50 [†]	4718. 43	(0.000D) 0.999A
5405. 79	(0.00, 0.48) [†]	5161. 78	(0.00) 2.52 [†]	4708. 02	(0.000D) 0.880A
5405. 00	(0.00) 1.53 [†]	5144. 67	(?) 1.53, 2.58 [†]	4700. 60	(0.00) 1.50 [†]
5400. 58	(0.00) 1.50 [†]	5139. 60	(0.00) 0.79 [†]	4698. 61	(0.00) 0.37 [†]
5395. 81	(0.00) 1.01A [†]	5072. 93	(0.00 . . .) 0.95, 2.01 [†]	4698. 46	(0.00) 0.89 [†]
5390. 38	(0.00) 1.49 [†]	5067. 73	(0.00) 0.94A [†]	4697. 04	(0.00 . . .) 1.06, 1.32 [†]
5387. 57	(0.00) 1.49 [†]	5065. 92	(?) 1.63D [†]	4693. 94	(0.00) 1.02 [†]
5386. 96	(0.00) 1.50 [†]	5051. 90	(0.00) 0.86 [†]	4689. 38	(0.00 . . .) 0.51, 0.94 [†]
5371. 48	(0.00) 1.10 [†]	5018. 17	(0.00) 1.07 [†]	4680. 86	(0.000) 0.654
5370. 36	(0.00) 1.01 [†]	5013. 31	(0.00) 1.13 [†]	4669. 34	(?) 1.65 [†]
5368. 53	(0.00) 0.96 [†]	4985. 95	(0.00) 1.12 [†]	4666. 51	(0.00) 1.87 [†]
5348. 30	P-B	4964. 92	(0.00) 2.24 [†]	4666. 20	(0.00) 0.58 [†]
5345. 77	P-B	4954. 81	(0.00, 0.25) 0.41 [†]	4652. 15	(0.000, 0.340, 0.670) 0.824, 1.172, 1.511, 1.841, 2.174
5340. 46	(0.00) 1.67 [†]	4942. 49	(0.00) 1.87 [†]	4651. 28	(0.00, 1.02) 0.51, 1.53, 2.57 [†]
5312. 88	(0.47) 1.87 [†]	4936. 34	(0.00) 0.43A [†]	4646. 15	(0.000, 0.167, 0.334, 0.508) 0.998, 1.170, 1.335, 1.505, 1.674, 1.839, 2.008
5300. 74	(0.00) 1.97 [†]	4930. 18	(0.00) 1.20 [†]	4639. 52	(0.00) 2.16 [†]
5298. 29	P-B	4922. 28	(0.00) 1.07 [†]	4626. 18	(1.008) 1.504, 2.515
5297. 99	(0.00) 1.17 [†]	4903. 25	(?) 0.38, 0.86	4625. 91	(0.00) 1.27 [†]
5296. 69	(0.00, 1.00) 0.50, 1.53. †	4887. 01	(0.00) 0.86 [†]		
5292. 57	(0.00) 1.45 [†]	4885. 77	(0.00) 0.61 [†]		
5285. 64	(0.00) 1.40 [†]	4870. 79	(0.00) 0.75 [†]		
5275. 21	(0.00) 1.21 [†]	4861. 84	(0.00) 0.99 [†]		
5273. 46	(0.00) 1.56 [†]	4836. 85	(0.000) 2.350		

TABLE 2. Zeeman effect of Cr I—Continued

Wave-lengths	Magnetic patterns	Wave-lengths	Magnetic patterns	Wave-lengths	Magnetic patterns
4624.56	(0.00) 1.04†	4344.51	(0.000, 0.148, 0.303, 0.457) 0.892 , 1.050, 1.206, 1.355, 1.498, 1.645, 1.786	4137.92	(0.00) 1.28†
4622.47	(0.00) 1.36†	4343.17	(?) 1.28 , 1.96†	4134.39	(0.00) 0.69†
4619.54	(0.000) 1.518	4340.14	(0.00) 1.38†	4131.36	(0.000) 0.995
4616.12	(0.336, 0.672) 1.166, 1.502 , 1.838 , 2.173	4339.74	(0.00) 0.00†	4129.20	(0.00) 1.22†
4613.36	(0.000) 2.508	4339.45	(0.00) 0.75A†	4128.39	(0.00) 1.20†
4611.96	(0.00) 0.54†	4337.57	(0.00, 0.47) 0.48 , 0.97, 1.48†	4126.51	(0.00) 1.31†
4600.74	(0.169, 0.337, 0.508) 1.170, 1.333, 1.503 , 1.669 , 1.842, 2.004	4325.07	(0.00) 0.87†	4125.44	(0.00) 1.10†
4600.11	(0.68) 1.63†	4323.52	(0.00) 1.02†	4123.39	(0.00) 1.18†
4595.60	(0.121) 1.013D	4320.61	(0.00) 1.65†	4122.16	(0.000) 1.017
4591.40	(0.00 , 0.33) 1.76, 2.24 †	4309.73	(0.00) 1.58†	4121.82	(0.000d?) 1.041
4586.15	(0.00) 1.44†	4301.18	(0.000) 1.043A	4121.26	(0.00) 1.02†
4580.04	(0.000 , 0.508) 1.496 , 2.005, 2.516	4300.52	(0.000) 0.967	4104.86	(0.00) 0.81†
4575.11	(0.000) 0.815	4299.97	(0.00) 0.94†	4103.84	(0.00) 1.32†
4569.63	(0.77) 1.75†	4297.75	(0.00) 0.96†	4092.18	(0.00) 0.89†
4565.51	(0.000 , 0.165, 0.340) 1.277, 1.509, 1.670, 1.836, 2.000	4295.77	(0.00) 1.69†	4090.30	(0.00) 1.14†
4564.16	(0.000) 1.020	4291.97	(0.00) 0.87†	4077.68	(0.000) 0.890B
4545.95	(0.164, 0.332) 1.668, 1.836 , 2.003 , 2.174	4289.73	(0.000 , 0.334, 0.674) 1.329 , 1.668, 2.000, 2.330, 2.667	4077.09	(0.000) 0.655
4542.64	(0.00) 1.12†	4284.91	(0.000) 1.005	4076.07	(0.000) 1.021
4527.45	(0.00) 1.26†	4280.42	(0.00) 0.90†	4074.86	(0.000) 1.123
4526.46	(0.00) 1.32†	4271.07	(0.00) 1.18†	4067.83	(0.00) 1.07†
4521.14	(0.000) 0.968	4268.79	(0.00) 0.70 , 1.16†	4066.93	(0.000) 0.848
4515.44	(0.000) 1.488	4263.15	(0.00) 1.20†	4065.71	(0.000) 1.029A
4506.84	(0.000) 0.956	4255.50	(0.00) 1.22†	4060.65	(0.00) 0.96†
4500.29	(0.27) 0.84†	4254.33	(0.000 , 0.255, 0.503, 0.756) 0.998 , 1.248, 1.500, 1.748, 2.002, 2.256, 2.505	4058.78	(0.000) 0.849
4498.73	(0.000) 1.455	4240.71	(0.000) 1.155A	4057.83	(0.00) 0.90†
4496.85	(0.000 , 0.332, 0.669) 0.999 , 1.335, 1.670, 2.005, 2.361	4238.96	(0.00) 1.45†	4057.21	(0.00) 0.86†
4492.31	(0.00 , 0.60) 1.01 , 1.54†	4232.23	(0.00) 0.78†	4056.78	(0.00) 0.98†
4488.06	(0.00) 1.37†	4230.49	(0.00) 0.86†	4056.05	(0.00) 0.37A†
4482.88	(0.54) 1.49, 2.08†	4226.75	(0.000) 1.006, 1.060	4051.32	(0.000) 0.997
4458.54	(0.00) 1.09†	4224.52	(0.00) 0.87†	4049.08	(0.00) 1.00†
4432.16	(0.000) 1.497	4221.58	(0.00) 0.68†	4048.78	(0.00) 1.04†
4430.48	(0.00) 1.14†	4217.65	(0.00) 1.11†	4039.10	(0.14) 1.17†
4424.29	(0.00) 1.16A†	4211.34	(0.00) 1.22†	4025.01	(0.00) 1.07†
4413.86	(0.00) 1.16A†	4209.76	(0.000) 1.127	4022.27	(0.00) 0.65†
4410.97	(0.00) 1.04†	4209.37	(0.00) 1.04†	4018.22	(0.00) 1.57†
4403.51	(0.000) 1.003	4206.91	(0.00) 1.03†	4012.48	(0.00) 0.92†
4391.76	(?) 1.56, 2.07, 2.57 †	4204.48	(0.000) 0.955	4001.44	(0.00) 1.07†
4387.51	(0.00) 1.04†	4203.59	(0.00) 0.38†	3999.68	(0.00) 1.08†
4384.97	(0.277, 0.450, 0.604) 0.910, 1.051, 1.201, 1.348 , 1.497 , 1.650, 1.799, 1.936	4200.10	(0.00) 1.24†	3992.85	(0.00) 1.69†
4382.54	(0.00) 1.22†	4194.96	(0.00) 2.01†	3989.98	(0.00) 1.16A†
4381.11	(0.00) 1.16†	4193.66	(0.00) 0.92†	3981.24	P-B
4377.54	(0.00) 1.16†	4192.11	(0.000) 0.948	3979.80	(0.00) 1.56†
4376.80	(0.000) 1.166	4191.27	(0.00) 0.92†	3971.27	P-B
4375.34	(0.000) 0.824A	4190.66	(0.00) 0.98†	3958.08	(0.000) 1.160
4373.65	(0.00) 0.99†	4190.15	(0.00) 1.18†	3941.50	(0.000) 1.497
4373.25	(0.00 , 1.52) 0.00, 1.52, 3.11 †	4179.27	(0.00) 0.90†	3930.27	(0.00) 1.57†
4363.13	(0.000) 0.830	4175.96	(0.00) 1.58†	3928.65	(0.000) 1.500
4359.65	(0.506, 1.006) 0.502, 1.002 , 1.502 , 2.010	4172.78	(0.00) 1.14†	3926.66	(0.000) 1.703
4351.77	(0.000 , 0.098, 0.200, 0.304, 0.409) 0.988 , 1.102, 1.207, 1.309, 1.409, 1.504, 1.603, 1.698	4170.21	(0.000) 1.046	3921.03	(0.000) 1.510
4351.05	(1.499) 0.000, 1.499	4169.84	(0.000) 1.105A	3919.16	(0.000) 1.503
		4165.52	(0.000) 1.030	3916.25	(0.000) 1.502
		4163.63	(0.00) 1.18	3915.85	(0.00) 1.19†
		4161.43	(0.000) 1.046A	3912.01	(0.00) 1.94†
		4152.78	(0.00) 0.96†	3910.72	(0.00) 1.26†
		4142.19	(0.00) 1.39†	3908.76	(0.000) 1.500
				3907.26	(0.00) 1.76†
				3903.17	(0.000) 1.405, 1.600
				3902.91	(0.00) 1.499
				3897.66	(0.000) 1.018
				3894.04	(0.000) 1.500

TABLE 2. Zeeman effect of Cr I—Continued

Wave-lengths	Magnetic patterns	Wave-lengths	Magnetic patterns	Wave-lengths	Magnetic patterns
3891. 93	(0.000) 0.989 <i>A</i>	3508. 09	(0.443, 0.586)?	3148. 44	(0.000 <i>C</i>) 0.911 <i>B</i>
3890. 83	(0.000 , 0.292) 0.992 , 1.269	3494. 96	(0.000) 1.027	3144. 39	(0.000) 0.487
3886. 80	(0.000) 1.501	3488. 44	(0.000 , 0.157, 0.315, 0.474, 0.635) 0.963, 1.116, 1.277, 1.440, 1.585	3141. 88	(0.090) 1.062
3885. 24	(0.000) 1.494			3119. 70	(0.000) 0.848
3885. 20	(0.000) 1.502			3119. 25	(0.068) 1.133
		3481. 54	(0.000) 1.181		
3883. 29	(0.000) 1.497	3481. 30	(0.33) 1.12†	3110. 87	(0.113) 1.090
3879. 23	(0.00) 0.50 , 1.83†			3109. 34	(0.238 <i>B</i>) 0.813 <i>D</i>
3874. 55	(0.00) 1.18†			3104. 71	(0.000 , 0.231, 0.448)
3862. 54	(0.00) 1.71†	3476. 17	(0.000) 1.190	3095. 38	(0.000) 0.817
3857. 63	P-B	3472. 76	(0.075, 0.219, 0.384, 0.503)?	3087. 53	(0.000) 1.201
3855. 30	(0.00) 2.57†	3468. 74	(0.000) 0.697	3080. 71	(0.391, 0.579)?
3854. 23	P-B	3467. 71	(0.000) 1.032	3077. 84	(0.000 <i>W</i> , <i>D</i>) 1.258, 1.375
3853. 19	P-B	3450. 81	(0.000) 1.002	3073. 68	(0.000) 1.228
3852. 22	(0.000) 1.505			3071. 30	(0.000) 1.099
3849. 54	(0.00) 1.62†	3443. 78	(0.201) 0.847 <i>D</i>	3065. 06	(0.000 , 0.116, 0.225) 1.010 <i>B</i>
		3415. 31	(0.000) 1.230		
3849. 35	(0.00) 1.24†	3412. 26	(0.000) 1.063	3061. 81	(0.000) 1.191
3841. 28	(0.000 , 0.303, 0.594) 0.729 , 1.022, 1.296, 1.573, 1.866	3396. 02	(0.000) 0.992	3061. 64	(0.000) 1.042
		3365. 52	(0.000) 0.889	3058. 16	(0.097)?
3831. 03	(0.000) 1.508			3053. 87	(0.000 , 0.173, 0.330, 0.459) 1.011 , 1.164, 1.324
3823. 52	(0.000) 1.502	3351. 97	(0.354, 0.650, 0.996) 1.006, 1.326, 1.628 , 1.985 , 2.209, 2.513	3052. 22	(0.000 , 0.204, 0.408, 0.621) 1.267, 1.476, 1.696
3820. 46	(0.00) 1.16†				
		3346. 79	(0.000) 0.922	3039. 77	(0.000) 1.239
3819. 57	(0.00 <i>W</i>) 0.00†	3346. 72	(0.000) 1.013	3039. 73	(0.120) 1.104
3817. 85	(0.00) 1.27†	3343. 34	(0.00) 1.05†	3037. 05	(0.142, 0.300, 0.472, 0.636) 0.895, 1.044, 1.206, 1.360 , 1.512 , 1.662, 1.823, 1.955
3814. 63	(0.000) 0.750	3332. 88	(0.215, 0.304) 1.012 <i>D</i>		(0.201, 0.343, 0.492) 1.432
3812. 26	(0.000) 1.057			3034. 19	(0.000) 0.900
3807. 92	(0.00) 1.46†			3031. 50	
		3330. 60	(0.000) 0.782		
3806. 83	(0.000) 1.207	3329. 06	(0.125) 1.213		
3804. 80	(0.000) 1.494	3326. 59	(0.000) 0.674	3031. 35	(0.000 , 1.456) 0.000, 1.456, 2.952
3801. 19	(0.00) 0.86†	3259. 98	(0.348, 0.526, 0.722, 0.841, 1.080) 0.201, 0.379, 0.559, 0.737, 0.894 , 1.081 , 1.268, 1.439, 1.607, 1.784	3030. 25	(0.230, 0.480, 0.741) 0.734, 1.013, 1.257 , 1.501 , 1.729, 1.987
3797. 71	(0.00) 1.47†			3029. 16	(0.000 , 0.932) 0.547 . 1.492, 2.463
3747. 25	(0.00) 1.04†			3024. 36	(0.380 <i>B</i>) 1.397 <i>D</i>
		3257. 83	(0.58) 1.17†	3021. 58	(0.438) 0.919 <i>A</i>
3742. 97	(0.00) 1.35†			3020. 67	(1.492) 0.000, 1.492
3733. 44	P-B	3253. 26	(0.000) 1.130	3018. 83	(0.00 <i>W</i>) 1.89 <i>B</i> †
3689. 65	(0.000) 1.108	3251. 83	(0.137) 1.067	3018. 49	(0.939) 1.541, 2.552
3681. 69	(0.000) 1.500	3251. 58	(0.155)?	3017. 59	(0.00 <i>W</i>) 0.865 , 1.034, 1.190, 1.345, 1.540, 1.692, 1.852
3676. 32	(0.057) 1.487	3247. 28	(0.00) 0.31 <i>A</i> †	3015. 20	(0.00) 0.00†
		3245. 54	(0.203, 0.331, 0.461) 0.570, 0.681, 0.810 , 0.932 , 1.056, 1.172		
3653. 92	(0.00) 0.63†			3014. 93	(0.000 , 0.248, 0.451) 0.757 , 1.011, 1.264, 1.502
3646. 16	P-B	3244. 12	(0.322, 0.501) 1.731	3014. 76	(0.00) 1.58†
3615. 65	(0.000 , 0.344, 0.704, 1.053) 0.603 , 0.946, 1.307, 1.646	3237. 73	(0.260, 0.412, 0.557) 0.687, 0.811, 0.930 , 1.059 , 1.172, 1.272	3013. 72	(0.00) 1.26†
3612. 61	(0.627) 0.524			3013. 03	(0.000) 2.468
3608. 41	(0.00) 0.60†	3233. 24	(. . ., 0.351) 0.849 , 1.502	3011. 11	(0.000) 0.983
		3229. 21	(0.000) 1.040		
3605. 32	(0.000 , 0.329, 0.664) 1.342, 1.669, 2.008, 2.342, 2.674	3219. 62	(0.000) 1.919	3005. 06	(0.000) 1.491
3601. 65	(0.00) 1.46†			3003. 79	(0.000) 1.024
3599. 40	(0.000) 1.456	3211. 32	(0.000 <i>d</i> ?) 0.937 <i>B</i>	3000. 88	(0.000) 1.501
3593. 48	(0.074, 0.166, 0.258) 1.743, 1.845, 1.929 , 2.016 , 2.107, 2.203	3198. 12	(0.000 , 0.175, 0.358) 0.947 , 1.137, 1.329, 1.469	2998. 78	(0.000 , 0.474) 1.546 , 2.010, 2.512
		3192. 12	(0.000 , 0.672, 1.319) 0.000 , 0.672, 1.319	2998. 12	(0.000), 1.176
3582. 61	(0.492, 0.752, 1.084)?	3167. 44	(0.000) 0.548		
3578. 68	(0.000 , 0.256, 0.509, 0.764) 1.002 , 1.250, 1.505, 1.758, 2.008, 2.266, 2.511	3163. 76	(0.000 <i>w</i>) 1.027 , 1.164		
3574. 80	(0.00) 1.38†			2996. 57	(0.000) 1.498
3562. 28	(0.000) 1.177			2995. 09	(0.48, 0.94) 1.07, 1.51 , 1.97 , 2.47†
3559. 78	(0.000) 1.512			2994. 06	(0.76, 1.41) 0.67, 1.29 , 2.07 , 2.78†
		3160. 62		2991. 88	(0.000) 1.501
3550. 63	(0.000) 1.474	3159. 58	(0.000 <i>D</i>) 0.718 <i>A</i>	2991. 40	(0.000) 1.039
3532. 89	(0.000 , 0.264) 0.844 , 1.177	3155. 16	(0.000) 0.995		
3527. 09	(0.000) 1.014	3153. 55	(0.000 , 0.194, 0.391) 1.073 , 1.283		
3518. 40	(0.000) 1.188 <i>B</i>				
3510. 53	(0.000) 1.016	3152. 89	(0.135) 1.119		

TABLE 2. Zeeman effect of Cr I—Continued

Wave-lengths	Magnetic patterns	Wave-lengths	Magnetic patterns
2988. 64	(0.000, 0.358, 0.700) 0.950 , 1.307, 1.637, 2.017, 2.358	2739. 40	(0.000) 0.942
2986. 47	(0.000) 1.484	2736. 46	(0.00 , 0.52) 1.58 , 1.95†
2986. 13	(0.00) 1.52†	2731. 90	(0.25) 1.90†
2986. 01	(0.000) 1.502	2726. 50	(0.00) 1.02†
2985. 85	(0.000) 1.492	2716. 18	(0.00) 0.78†
2984. 82	(0.000) 1.206	2706. 53	(0.000) 0.810
2984. 01	(0.000) 1.033	2705. 41	(0.000) 1.049
2981. 42	(0.000) 0.965	2704. 74	(0.000) 1.214
2980. 78	(0.000) 1.534	2702. 52	(0.000) 1.151
2975. 48	(0.000) 1.511	2701. 99	(0.000) 1.027
2971. 10	(0.000) 1.515	2688. 04	(0.000) 0.559
2967. 64	(0.000) 1.483	2654. 41	(0.000) 1.122
2939. 44	(0.000) 1.130	2642. 12	(0.000) 1.094
2935. 53	(0.000) 1.002	2626. 60	(0.000) 1.704
2913. 72	(0.00) 1.03†	2622. 87	(0.161) 1.473
2911. 15	(0.000) 1.501	2620. 48	(0.000) 1.734
2910. 89	(0.000) 1.497	2591. 84	(0.000 <i>D</i>) 1.049 <i>A</i>
2909. 05	(0.000) 1.496	2579. 14	(0.000) 0.919
2905. 48	(0.000) 1.497	2578. 27	(0.000) 0.975
2904. 67	(0.000) 0.668	2577. 66	(0.456 <i>B</i>) . . .
2896. 76	(0.000) 1.507	2572. 15	(0.126) 0.882
2894. 17	(0.000) 1.505	2571. 74	(0.000) 1.134
2893. 25	(0.000) 1.496	2566. 55	(0.00) 1.45†
2891. 42	(0.000) 1.166	2560. 70	(0.70) 1.81†
2889. 29	(0.000) 1.497	2557. 14	(0.000) 0.933
2889. 22	(0.000) 1.486	2549. 55	(0.96) 1.51 , 2.38†
2886. 99	(0.000) 1.496	2545. 64	(0.000) 2.464
2881. 14	(0.000) 1.038	2528. 56	(0.000) 1.452
2879. 27	(0.000) 1.504	2527. 11	(0.260) 1.423
2871. 63	(0.000) 1.509	2519. 51	(0.000 <i>D</i>) 1.088 <i>A</i>
2849. 30	(0.000) 1.138	2516. 92	(0.246) 1.482
2840. 89	(0.161) 1.183	2508. 97	(0.00) 1.59†
2831. 04	(0.000) 0.678	2508. 11	(0.00) 1.52†
2826. 73	(0.00) 1.38†	2506. 82	(0.000) 0.452
2795. 82	(0.000) 1.075	2504. 31	(0.00 <i>D</i>) 0.73 <i>A</i>
2790. 28	(0.000) 0.988	2496. 30	(0.00) 1.149
2787. 84	(0.000) 0.984	2492. 57	(0.000) 0.972
2780. 70	(0.00) 1.19†	2491. 35	(0.00) 0.00†
2775. 67	(0.00)	2408. 72	(0.00) 0.89†
2771. 45	(0.000) 1.200	2408. 60	(0.00) 1.22†
2769. 90	(0.000) 0.939 <i>A</i>		
2767. 53	(0.000) 1.094		
2759. 67	(0.000) 1.228		
2742. 16	(0.000) 1.064		
2741. 08	(0.000) 0.993		

TABLE 3. Paschen-Back interaction in the $a^5S-z^5P^o$ group of Cr I

Term combination No-field wavelength	Observed Zeeman com- ponents and intensities	Theoretical Zeeman com- ponents and intensities	Polarization and transition
$a^5S_2-z^5P_3^o$ 5208.415	5211.092 10	5211.107 8.8	$\sigma+1 \rightarrow +2$
	5210.775 12	5210.760 9.4	$\sigma 0 \rightarrow +1$
	5210.411 10	5210.414 10.0	$\sigma-1 \rightarrow 0$
	5209.990 12	5209.984 10.5	$\sigma-2 \rightarrow -1$
	5209.509 15	5209.503 11.0	$\sigma-3 \rightarrow -2$
	5209.243 10	5209.238 14.0	$\pi+2 \rightarrow +2$
	5208.940 8	5208.942 8.8	$\pi+1 \rightarrow +1$
	5208.623 10	5208.595 7.6	$\pi 0 \rightarrow 0$
	5208.248 6	5208.249 6.2	$\pi-1 \rightarrow -1$
	5207.829 10	5207.819 4.4	$\pi-2 \rightarrow -2$
	5207.344 8	5207.343 11.0	$\sigma+3 \rightarrow +2$
	5207.074 7	5207.073 4.7	$\sigma+2 \rightarrow +1$
	5206.790 7	5206.777 2.0	$\sigma+1 \rightarrow 0$
	5206.456 6	5206.430 1.3	$\sigma 0 \rightarrow -1$
5206.081 4	5206.084 0.7	$\sigma-1 \rightarrow -2$	
$a^5S_2-z^5P_2^o$ 5206.021	5208.420 5	5208.436 6.5	$\sigma+1 \rightarrow +2$
	5208.420 5	5208.328 5.5	$\sigma 0 \rightarrow +1$
	5208.268 5	5208.286 4.4	$\sigma-1 \rightarrow 0$
	5207.706 7	5207.708 3.1	$\sigma-2 \rightarrow -1$
	5206.332 8	5206.299 6.7	$\pi+2 \rightarrow +2$
	5206.245 7	5206.271 11.1	$\pi+1 \rightarrow +1$
	5206.210 5	5206.163 12.5	$\pi 0 \rightarrow 0$
	5206.112 2	5206.121 13.7	$\pi-1 \rightarrow -1$
	5205.551 15	5205.543 14.8	$\pi-2 \rightarrow -2$
	5204.157 5	5204.134 9.9	$\sigma+2 \rightarrow +1$
	5204.098 6	5204.106 4.0	$\sigma+1 \rightarrow 0$
	5204.098 6	5203.998 3.5	$\sigma 0 \rightarrow -1$
	5203.944 7	5203.956 2.5	$\sigma-1 \rightarrow -2$
	$a^5S_2-z^5P_1^o$ 5204.505	5206.724 6	5206.749 0.4
5206.279 7		5206.368 0.7	$\sigma 0 \rightarrow +1$
5205.890 7		5205.909 0.9	$\sigma+1 \rightarrow +2$
5204.590 15		5204.584 3.7	$\pi-1 \rightarrow -1$
5204.123 15		5204.203 5.1	$\pi 0 \rightarrow 0$
5203.735 18		5203.744 6.2	$\pi+1 \rightarrow +1$
5202.424 30		5202.419 10.6	$\sigma-1 \rightarrow -2$
5201.950 25		5202.038 10.3	$\sigma 0 \rightarrow -1$
5201.575 15		5201.579 10.0	$\sigma+1 \rightarrow 0$

TABLE 4. Even terms of Cr I

Electron configuration	Term symbol	Level	Interval	Observed g	Electron configuration	Term symbol	Level	Interval	Observed g	
$3d^5(a^6S)4s$	a^7S_3	0.00		2.007	$3d^4 4s^2$	a^3P_0 3P_1 3P_2	23163.27	348.73	581.16	
$3d^5(a^6S)4s$	a^5S_2	7593.16		2.006			23512.00			24093.16
$3d^4 4s^2$	a^5D_0 5D_1 5D_2 5D_3 5D_4	7750.78	60.04	0.000	$3d^4 4s^2$	a^3H_4 3H_5 3H_6	23933.90	122.21	144.12	
		7810.82		1.501			24056.11			
		7927.47		1.496			24200.23			
		8095.21		1.501						
		8307.57		1.497						
$3d^5(a^4G)4s$	a^5G_2 5G_3 5G_4 5G_5 5G_6	20517.40	3.52	2.500	$3d^5(b^4D)4s$	b^5D_0 5D_1 5D_2 5D_3 5D_4	24277.06	9.48	13.35	
		20520.92					2.77			24299.89
		20523.69					0.25			24303.94
		20523.94					-4.34			24282.34
		20519.60								
$3d^5(a^4P)4s$	a^5P_3 5P_2 5P_1	21840.84	-7.04	2.500	$3d^5(a^4G)4s$	a^3G_3 3G_4 3G_5	24833.86	63.69	141.06	
		21847.88					1.847			24897.55
		21856.94					-9.06			25038.61

TABLE 4. Even terms of Cr I—Continued

Electron configuration	Term symbol	Level	Interval	Observed <i>g</i>	Electron configuration	Term symbol	Level	Interval	Observed <i>g</i>
$3d^4 4s^2$	a^3F_2 3F_3 3F_4	24940. 61	165. 73 71. 05		$3d^5(b^2G)4s$	b^1G_4	39158. 63		
		25106. 34							
		25177. 39							
$3d^5(a^4P)4s$	b^3P_0 3P_1 3P_2	27163. 20	13. 02 46. 83		$3d^5(a^6S)4d$	e^7D_1 7D_2 7D_3 7D_4 7D_5	42253. 42	1. 10 1. 74 2. 11 2. 69	
		27176. 22							
		27223. 05							
$3d^4 4s^2$	b^3G_3 3G_4 3G_5	27597. 22	106. 62 113. 04		$3d^5(a^6S)4d$	e^5D_4 5D_3 5D_2 5D_1 5D_0	44050. 87	-17. 85 -12. 18 -8. 02 -3. 88	
		27703. 84							
		27816. 88							
$3d^5(b^4D)4s$	a^3D_3 3D_2 3D_1	28637. 00	-45. 18 2. 75		$3d^5(a^6S)6s$	f^7S_3	45643. 38		
		28682. 18							
		28679. 43							
$3d^5(a^2D)4s$	b^3D_3 3D_2 3D_1	31009. 00	-19. 33 -20. 52		$3d^5(a^6S)6s$	f^5S_2	45967. 81		
		31028. 33							
		31048. 85							
$3d^5(a^2I)4s$	a^3I_7 3I_6 3I_5	31048. 00	-1. 33 -6. 02		$3d^4 4s(a^6D)5s$	f^7D_1 7D_2 7D_3 7D_4 7D_5	46448. 60	76. 24 112. 37 145. 85 175. 92	
		31049. 33							
		31055. 35							
$3d^5(b^4F)4s$	a^5F_1 5F_2 5F_3 5F_4 5F_5	31352. 42	2. 79 9. 12 13. 63 15. 44		$3d^5(a^6S)5d$	g^7D_1 7D_2 7D_3 7D_4 7D_5	47700. 18	0. 77 1. 35 2. 36 5. 14	
		31355. 21							
		31364. 33							
		31377. 96							
		31393. 40							
$3d^4 4s^2$	a^1G_4	31987. 06							
$3d^4 4s^2$	a^1I_6	32097. 36							
$3d^5(a^2F)4s$	b^3F_2 3F_3 3F_4	33040. 10	20. 64 52. 53		$3d^4 4s(a^6D)5s$	f^5D_0 5D_1 5D_2 5D_3 5D_4	48488. 23	19. 33 51. 01 103. 02 162. 91	
		33060. 74							
		33113. 27							
$3d^5(a^2I)4s$	b^1I_6	33762. 74							
$3d^4 4s^2$	c^3D_1 3D_2 3D_3	33906. 65	29. 00 -0. 77		$3d^5(a^6S)7s$	g^7S_3	49177. 83		
		33935. 65							
		33934. 88							
$3d^6$	c^5D_4 5D_3 5D_2 5D_1 5D_0	35398. 02	-103. 24 -71. 68 -45. 57 -22. 18		$3d^5(a^6S)7s$	g^5S_2	49321. 51		
		35501. 26							
		35572. 94							
		35618. 51							
		35640. 69							
$3d^5(b^4F)4s$	c^3F_2 3F_3 3F_4	35807. 90	5. 83 49. 09		$3d^4 4s(a^6D)4d$	e^3F_2 3F_3 3F_4	49586. 38	131. 50 145. 62	
		35813. 73							
		35862. 82							
$3d^5(b^2H)4s$	b^3H_4 3H_5 3H_6	35870. 53	13. 87 49. 62		$3d^5(a^6S)8s$	h^5S_2	51035. 68		
		35884. 40							
		35934. 02							
$3d^5(b^2F)4s$	d^3F_2 3F_3 3F_4	36558. 55	-6. 42 25. 60		$3d^4 4s(a^6D)4d$	h^7D_1 7D_2 7D_3 7D_4 7D_5	53195. 03	89. 31 91. 12 252. 29	
		36552. 13							
		36577. 73							
$3d^5(a^6S)5s$	e^7S_3	36895. 73							
$3d^5(b^2G)4s$	c^3G_3 3G_4 3G_5	37205. 88	38. 29 -10. 67		$3d^4 4s(a^6D)4d$	e^7F_0 7F_1 7F_2 7F_3 7F_4 7F_5 7F_6	53215. 40	64. 40 104. 92 141. 50 179. 84 221. 41	
		37244. 17							
		37233. 50							
$3d^5(a^6S)5s$	e^5S_2	37883. 34							
$3d^5(b^2H)4s$	a^1H_5	38537. 68							

TABLE 4. Even terms of Cr I—Continued

Electron configuration	Term symbol	Level	Interval	Observed g	Electron configuration	Term symbol	Level	Interval	Observed g
$3d^4 4s(a^4D)5s$	e^5F_1 5F_2 5F_3 5F_4 5F_5	54296.76	86.60		$3d^4 4s(b^4P)5s$	e^5P_1 5P_2 5P_3	61558.17	129.39	
		54383.36	92.93				61687.56	162.61	
		54476.29	96.55				61850.17		
		54572.84	87.47						
		54660.31							
$3d^4 4s(a^4D)5s$	g^5D_0 5D_1 5D_2 5D_3 5D_4	54646.20	25.70		$3d^4 4p(z^6F^o)4p$	f^7F_0 7F_1 7F_2 7F_3 7F_4 7F_5 7F_6	-----		
		54671.90	146.65				62034.44	154.39	
		54818.55	168.27				62188.83	283.97	
		54986.82	222.19				62472.80	185.58	
		55209.01					62658.38		
$3d^4 4s(a^4D)5s$	e^3D_1 3D_2 3D_3	54804.69	169.95		$3d^5(a^4G)4d$	f^5G_2 5G_3 5G_4 5G_5 5G_6	62646.60	15.36	
		54974.64	230.15				62661.96	9.04	
		55204.79					62671.00	19.96	
$3d^5(a^4G)5s$	e^5G_2 5G_3 5G_4 5G_5 5G_6	57350.65	10.59		$3d^4 4s(a^4H)5s$	e^5H_3 5H_4 5H_5 5H_6 5H_7	64712.04	39.38	
		57361.24	11.54				64751.42	50.66	
		57372.78	10.15				64802.08	34.22	
		57382.93	6.39				64836.30	103.98	
		57389.32					64940.28		
$3d^5(a^4G)5s$	e^3G_3 3G_4 3G_5	57984.94	7.21						
		57992.15	-1.92						
		57990.23							

TABLE 5. Odd terms of Cr I

Electron configuration	Term symbol	Level	Interval	Observed g	Electron configuration	Term symbol	Level	Interval	Observed g
$3d^5(a^6S)4p$	$z^7P_3^o$ $^7P_2^o$ $^7P_1^o$	23305.01	81.34	2.334	$3d^4 4s(a^6D)4p$	$z^5D_0^o$ $^5D_1^o$ $^5D_2^o$ $^5D_3^o$ $^5D_4^o$	33338.20	85.59	-0.003
		23386.35	112.49	1.92			33423.79	118.32	1.499
		23498.84		1.752			33542.11	129.44	1.497
$3d^4 4s(a^6D)4p$	$z^7F_0^o$ $^7F_1^o$ $^7F_2^o$ $^7F_3^o$ $^7F_4^o$ $^7F_5^o$ $^7F_6^o$	24971.21	39.43		$3d^4 4s(a^4D)4p$	$z^3P_0^o$ $^3P_1^o$ $^3P_2^o$	33762.56	134.70	
		25010.64	78.56				33897.26	293.23	
		25089.20	116.82				34190.49		
		25206.02	153.60						
		25359.62	189.02						
$3d^5(a^6S)4p$	$z^5P_3^o$ $^5P_2^o$ $^5P_1^o$	26787.50	-8.78	1.670	$3d^4 4s(a^4D)4p$	$z^3F_2^o$ $^3F_3^o$ $^3F_4^o$	35897.87	136.35	
		26796.28	-5.65	1.830			36034.22	177.93	
		26801.93		2.512			36212.15		
$3d^4 4s(a^4D)4p$	$z^7D_1^o$ $^7D_2^o$ $^7D_3^o$ $^7D_4^o$ $^7D_5^o$	27300.19	81.99		$3d^4 4s(a^4D)4p$	$z^3D_1^o$ $^3D_2^o$ $^3D_3^o$	38597.06	133.61	
		27382.18	118.19				38730.67	180.66	
		27500.37	149.34				38911.33		
		27649.71	175.74						
		27825.45							
$3d^4 4s(a^6D)4p$	$y^7P_3^o$ $^7P_2^o$ $^7P_1^o$	27728.87	91.36	2.341	$3d^4 4s(a^4D)4p$	$y^5F_1^o$ $^5F_2^o$ $^5F_3^o$ $^5F_4^o$ $^5F_5^o$	40906.46	64.83	0.004
		27820.23	115.03	1.929			40971.29	114.97	1.28
		27935.26		1.761			41086.26	138.52	1.246
$3d^4 4s(a^6D)4p$	$y^5P_1^o$ $^5P_2^o$ $^5P_3^o$	29420.90	163.72	2.513	$3d^4 4s(a^4D)4p$	$x^5P_1^o$ $^5P_2^o$ $^5P_3^o$	41224.78	168.69	1.360
		29584.62	240.13	1.836			41393.47		
		29824.75		1.669					
$3d^4 4s(a^6D)4p$	$z^5F_1^o$ $^5F_2^o$ $^5F_3^o$ $^5F_4^o$ $^5F_5^o$	30787.30	71.52	0.002	$3d^4 4s(a^4D)4p$	$y^5D_0^o$ $^5D_1^o$ $^5D_2^o$ $^5D_3^o$ $^5D_4^o$	40930.31	52.66	2.455
		30858.82	106.64	0.997			40982.97	60.38	1.76
		30965.46	140.91	1.245			41043.35		1.640
		31106.37	173.98	1.345					
		31280.35		1.396					

TABLE 5. *Odd terms of Cr I—Continued*

Electron configuration	Term symbol	Level	Interval	Observed g	Electron configuration	Term symbol	Level	Interval	Observed g		
$3d^4 4s(a^4H)4p$	$\left\{ \begin{array}{l} z^5H_{33} \\ 5^5H_{44} \\ 5^5H_{55} \\ 5^5H_{66} \\ 5^5H_{77} \end{array} \right.$	42025. 60	54. 21		$3d^5 (a^4P)4p$	$\left\{ \begin{array}{l} w^5D_{00} \\ 5^5D_{11} \\ 5^5D_{22} \\ 5^5D_{33} \\ 5^5D_{44} \end{array} \right.$	46081. 27	217. 05			
		42079. 81	73. 93				46298. 32	51. 18			
		42153. 74	98. 43				46349. 50	18. 85			
		42252. 17	135. 15				46368. 35	54. 11			
		42387. 32					46422. 46				
$3d^4 4s(b^4P)4p$	$\left\{ \begin{array}{l} x^5D_{00} \\ 5^5D_{11} \\ 5^5D_{22} \\ 5^5D_{33} \\ 5^5D_{44} \end{array} \right.$	42218. 37	74. 59	-0. 003	$3d^5 (a^4G)4p$	$\left\{ \begin{array}{l} w^5F_{11} \\ 5^5F_{22} \\ 5^5F_{33} \\ 5^5F_{44} \\ 5^5F_{55} \end{array} \right.$	46678. 35	-1. 29			
		42292. 96	145. 86	1. 501			46677. 06	11. 18			
		42438. 82	209. 44	1. 494			46688. 24	32. 30			
		42648. 26	260. 31	1. 498			46720. 54	-15. 56			
		42908. 57		1. 497			46704. 98				
$3d^5(a^6S)5p$	$\left\{ \begin{array}{l} x^7P_{32} \\ 7^7P_{32} \\ 7^7P_{43} \end{array} \right.$	42238. 04	16. 07		$3d^4 4s(a^4H)4p$	$\left\{ \begin{array}{l} z^3G_{33} \\ 3^3G_{44} \\ 3^3G_{55} \end{array} \right.$	46846. 77	58. 26			
		42254. 11	21. 09				46905. 03	80. 84			
		42275. 20					46985. 87				
$3d^5(a^4G)4p$	$\left\{ \begin{array}{l} z^5G_{22} \\ 5^5G_{33} \\ 5^5G_{44} \\ 5^5G_{55} \\ 5^5G_{66} \end{array} \right.$	42515. 35	23. 46		$3d^4 4s(c^4D)4p$	$\left\{ \begin{array}{l} u^5P_{32} \\ 5^5P_{32} \\ 5^5P_{43} \end{array} \right.$	46878. 61	-89. 09			
		42538. 81	26. 04				46967. 70	-54. 05			
		42564. 85	24. 40				47021. 75				
		42589. 25	16. 56								
		42605. 81									
$3d^4 4s(b^4P)4p$	z^5S_{22}	43124. 88			$3d^4 4s(b^4G)4p$	$\left\{ \begin{array}{l} x^5G_{32} \\ 5^5G_{33} \\ 5^5G_{44} \\ 5^5G_{55} \\ 5^5G_{66} \end{array} \right.$	47047. 47	78. 23			
							47125. 70	64. 17			
$3d^5(a^4P)4p$	$\left\{ \begin{array}{l} w^5P_{11} \\ 5^5P_{22} \\ 5^5P_{33} \end{array} \right.$	44125. 90	61. 02		$3d^5 (a^4G)4p$	$\left\{ \begin{array}{l} y^3G_{33} \\ 3^3G_{44} \\ 3^3G_{55} \end{array} \right.$	47048. 48	6. 43			
		44186. 92	72. 44				47054. 91	0. 40			
		44259. 36					47055. 31				
$3d^4 4s(a^4H)4p$	$\left\{ \begin{array}{l} z^5I_{44} \\ 5^5I_{55} \\ 5^5I_{66} \\ 5^5I_{77} \\ 5^5I_{88} \end{array} \right.$	44246. 70	61. 26		$3d^4 4s(b^4P)4p$	z^3S_{11}	47088. 40				
		44307. 96	85. 14				$3d^4 4s(a^4H)4p$	$\left\{ \begin{array}{l} z^3I_{55} \\ 3^3I_{66} \\ 3^3I_{77} \end{array} \right.$	47586. 06	44. 37	
		44393. 10	121. 34						47630. 43	62. 20	
		44514. 44	152. 11						47692. 63		
		44666. 55									
$3d^4 4s(a^4H)4p$	$\left\{ \begin{array}{l} y^5G_{22} \\ 5^5G_{33} \\ 5^5G_{44} \\ 5^5G_{55} \\ 5^5G_{66} \end{array} \right.$	44299. 98	73. 36		$3d^4 4s(b^4G)4p$	$\left\{ \begin{array}{l} x^5H_{33} \\ 5^5H_{44} \\ 5^5H_{55} \\ 5^5H_{66} \\ 5^5H_{77} \end{array} \right.$	47621. 31	67. 20			
		44373. 34	161. 12				47688. 51	105. 31			
		44534. 46	57. 00				47793. 82	148. 47			
		44591. 46	154. 80				47942. 29	197. 89			
		44746. 26					48140. 18				
$3d^4 4s(b^4P)4p$	$\left\{ \begin{array}{l} v^5P_{11} \\ 5^5P_{22} \\ 5^5P_{33} \end{array} \right.$	44666. 74	208. 45		$3d^5 (b^4D)4p$	$\left\{ \begin{array}{l} v^5F_{11} \\ 5^5F_{22} \\ 5^5F_{33} \\ 5^5F_{44} \\ 5^5F_{55} \end{array} \right.$	47629. 66	1. 85			
		44875. 19	238. 03				47631. 51	4. 74			
		45113. 22					47636. 25	3. 59			
$3d^4 4s(a^4F)4p$	$\left\{ \begin{array}{l} x^5F_{11} \\ 5^5F_{22} \\ 5^5F_{33} \\ 5^5F_{44} \\ 5^5F_{55} \end{array} \right.$	45201. 84	23. 36		$3d^5 (a^6S)6p$	$\left\{ \begin{array}{l} w^7P_{32} \\ 7^7P_{32} \\ 7^7P_{43} \end{array} \right.$	47697. 44	11. 15			
		45225. 20	30. 31				47708. 59	10. 49			
		45255. 51	30. 57				47719. 08				
		45286. 08	20. 37								
		45306. 45									
$3d^5(a^4G)4p$	$\left\{ \begin{array}{l} z^3H_{66} \\ 3^3H_{55} \\ 3^3H_{44} \end{array} \right.$	45348. 73	-5. 45		$3d^5 (b^4D)4p$	$\left\{ \begin{array}{l} v^5D_{00} \\ 5^5D_{11} \\ 5^5D_{22} \\ 5^5D_{33} \\ 5^5D_{44} \end{array} \right.$	47788. 08	-15. 78			
		45354. 18	-4. 45				47772. 30	13. 80			
		45358. 63					47786. 10	28. 30			
$3d^5(a^4G)4p$	$\left\{ \begin{array}{l} y^5H_{33} \\ 5^5H_{44} \\ 5^5H_{55} \\ 5^5H_{66} \\ 5^5H_{77} \end{array} \right.$	45566. 02	48. 86		$3d^4 4s(b^4G)4p$	$\left\{ \begin{array}{l} u^5F_{11} \\ 5^5F_{22} \\ 5^5F_{33} \\ 5^5F_{44} \\ 5^5F_{55} \end{array} \right.$	47877. 55	40. 38			
		45614. 88	48. 40				47917. 93	56. 60			
		45663. 28	44. 08				47974. 53	39. 87			
		45707. 36	34. 13				48014. 40	-28. 64			
		45741. 49					47985. 76				
$3d^5(a^4P)4p$	$\left\{ \begin{array}{l} y^3P_{00} \\ 3^3P_{11} \\ 3^3P_{22} \end{array} \right.$	45722. 59	-3. 39		$3d^4 4s(c^4D)4p$	$\left\{ \begin{array}{l} t^5F_{11} \\ 5^5F_{22} \\ 5^5F_{33} \\ 5^5F_{44} \\ 5^5F_{55} \end{array} \right.$	48210. 04	7. 79			
		45719. 20	15. 12				48217. 83	34. 08			
		45734. 32					48251. 91	-209. 08			
$3d^5(a^4G)4p$	$\left\{ \begin{array}{l} y^3F_{22} \\ 3^3F_{33} \\ 3^3F_{44} \end{array} \right.$	45966. 45	33. 91		$3d^4 4s(c^4D)4p$	$\left\{ \begin{array}{l} 5^5F_{44} \\ 5^5F_{55} \end{array} \right.$	48042. 80				
		46000. 36	57. 84								
		46058. 20									
$3d^5(a^4P)4p$	$\left\{ \begin{array}{l} y^3D_{11} \\ 3^3D_{22} \\ 3^3D_{33} \end{array} \right.$	46077. 09	32. 17		$3d^4 4s(b^4P)4p$	$\left\{ \begin{array}{l} x^3P_{00} \\ 3^3P_{11} \\ 3^3P_{22} \end{array} \right.$	48226. 36	104. 94			
		46109. 26	65. 14				48331. 30	127. 37			
		46174. 40					48458. 67				

TABLE 5. *Odd terms of Cr I—Continued*

Electron configuration	Term symbol	Level	Interval	Observed g	Electron configuration	Term symbol	Level	Interval	Observed g
$3d^4 4s(a^4H)4p$	$y^3H_{\frac{3}{2}}^{\frac{3}{2}}$ $^3H_{\frac{5}{2}}^{\frac{3}{2}}$ $^3H_{\frac{7}{2}}^{\frac{3}{2}}$	48288. 37	22. 02 134. 96		$3d^4 4s(b^4G)4p$	$2_{\frac{1}{2}}$ $x^3H_{\frac{3}{2}}^{\frac{3}{2}}$ $^3H_{\frac{5}{2}}^{\frac{3}{2}}$ $^3H_{\frac{7}{2}}^{\frac{3}{2}}$	52720. 07	29. 55 -78. 05	
		48310. 39					52914. 94		
		48445. 35					52885. 39		
$3d^4 4s(a^4F)4p$	$x^3G_{\frac{3}{2}}^{\frac{3}{2}}$ $^3G_{\frac{5}{2}}^{\frac{3}{2}}$ $^3G_{\frac{7}{2}}^{\frac{3}{2}}$	48515. 08	47. 08 224. 23		$3d^5(b^4F)4p$	$r^5F_{\frac{1}{2}}^{\frac{5}{2}}$ $^5F_{\frac{3}{2}}^{\frac{5}{2}}$ $^5F_{\frac{5}{2}}^{\frac{5}{2}}$ $^5F_{\frac{7}{2}}^{\frac{5}{2}}$ $^5F_{\frac{9}{2}}^{\frac{5}{2}}$	53011. 65	25. 87 36. 38 43. 64 54. 79	
		48562. 16					53037. 52		
		48786. 39					53073. 90		
$3d^4 4s(b^4P)4p$	$1_{\frac{3}{2}}$ $x^3D_{\frac{1}{2}}^{\frac{3}{2}}$ $^3D_{\frac{3}{2}}^{\frac{3}{2}}$ $^3D_{\frac{5}{2}}^{\frac{3}{2}}$	48636. 14	187. 68 283. 28		$3d^4 4s(a^6D)5p$	$s^5D_{\frac{0}{2}}^{\frac{5}{2}}$ $^5D_{\frac{1}{2}}^{\frac{5}{2}}$ $^5D_{\frac{3}{2}}^{\frac{5}{2}}$ $^5D_{\frac{5}{2}}^{\frac{5}{2}}$ $^5D_{\frac{7}{2}}^{\frac{5}{2}}$	-----	----- 99. 49 142. 03	
		48839. 90					53541. 25		
		49027. 58					53640. 74		
$3d^4 4s(b^4G)4p$	$w^3G_{\frac{3}{2}}^{\frac{3}{2}}$ $^3G_{\frac{5}{2}}^{\frac{3}{2}}$ $^3G_{\frac{7}{2}}^{\frac{3}{2}}$	49370. 70	83. 24 84. 12		$3d^4 4s(a^2H)4p$	$v^3G_{\frac{3}{2}}^{\frac{3}{2}}$ $^3G_{\frac{5}{2}}^{\frac{3}{2}}$ $^3G_{\frac{7}{2}}^{\frac{3}{2}}$	53804. 84	122. 75 150. 54	
		49453. 94					53927. 59		
		49538. 06					54078. 13		
$3d^4 4s(a^4F)4p$	$w^5G_{\frac{3}{2}}^{\frac{5}{2}}$ $^5G_{\frac{5}{2}}^{\frac{5}{2}}$ $^5G_{\frac{7}{2}}^{\frac{5}{2}}$ $^5G_{\frac{9}{2}}^{\frac{5}{2}}$ $^5G_{\frac{11}{2}}^{\frac{5}{2}}$ $^5G_{\frac{13}{2}}^{\frac{5}{2}}$	49466. 77	52. 95 53. 31 44. 58 17. 55		$3d^4 4s(a^4D)5p$	$s^5P_{\frac{1}{2}}^{\frac{5}{2}}$ $^5P_{\frac{3}{2}}^{\frac{5}{2}}$ $^5P_{\frac{5}{2}}^{\frac{5}{2}}$	53963. 05	69. 58 100. 25	
		49519. 72					54032. 63		
		49573. 03					54132. 88		
$3d^5(a^4P)4p$	$y^3S_{\frac{1}{2}}$	49477. 04			$3d^4 4s(a^4D)5p$	$q^5F_{\frac{1}{2}}^{\frac{5}{2}}$ $^5F_{\frac{3}{2}}^{\frac{5}{2}}$ $^5F_{\frac{5}{2}}^{\frac{5}{2}}$ $^5F_{\frac{7}{2}}^{\frac{5}{2}}$ $^5F_{\frac{9}{2}}^{\frac{5}{2}}$	54198. 23	53. 96 76. 76 96. 34 111. 24	
		49588. 97					54252. 19		
		49598. 08					54328. 95		
$3d^4 4s(a^6D)5p$	$t^5P_{\frac{1}{2}}^{\frac{5}{2}}$ $^5P_{\frac{3}{2}}^{\frac{5}{2}}$ $^5P_{\frac{5}{2}}^{\frac{5}{2}}$	49812. 46	9. 11 214. 38		$3d^5(a^2I)4p$	$z^3K_{\frac{6}{2}}^{\frac{3}{2}}$ $K_{\frac{7}{2}}^{\frac{3}{2}}$ $K_{\frac{8}{2}}^{\frac{3}{2}}$	54316. 83	88. 11 93. 33	
		49812. 46					54404. 94		
		49620. 69					54498. 27		
$3d^5(b^4D)4p$	$x^3F_{\frac{3}{2}}^{\frac{3}{2}}$ $^3F_{\frac{5}{2}}^{\frac{3}{2}}$ $^3F_{\frac{7}{2}}^{\frac{3}{2}}$	49650. 22	-29. 53 -2. 54		$3d^4 4s(a^2H)4p$	$w^3H_{\frac{3}{2}}^{\frac{3}{2}}$ $^3H_{\frac{5}{2}}^{\frac{3}{2}}$ $^3H_{\frac{7}{2}}^{\frac{3}{2}}$	54736. 55	62. 63 87. 64	
		49652. 76					54799. 18		
		49652. 76					54886. 82		
$3d^5(a^4P)4p$	$y^5S_{\frac{2}{2}}$	49822. 59			$3d^4 4s(a^2H)4p$	$z^1I_{\frac{1}{2}}$	54800. 26		
		50018. 80					54810. 94		
		50057. 61					54810. 94		
$3d^4 4s(a^6D)5p$	$s^5F_{\frac{1}{2}}^{\frac{5}{2}}$ $^5F_{\frac{3}{2}}^{\frac{5}{2}}$ $^5F_{\frac{5}{2}}^{\frac{5}{2}}$ $^5F_{\frac{7}{2}}^{\frac{5}{2}}$ $^5F_{\frac{9}{2}}^{\frac{5}{2}}$	50057. 61	38. 81 44. 43 108. 83 42. 10		$3d^5(a^2I)4p$	$v^3H_{\frac{3}{2}}^{\frac{3}{2}}$ $^3H_{\frac{5}{2}}^{\frac{3}{2}}$ $^3H_{\frac{7}{2}}^{\frac{3}{2}}$	54810. 94	118. 78 -63. 15	
		50102. 04					54929. 72		
		50210. 87					54866. 57		
$3d^5(b^4D)4p$	$w^3D_{\frac{1}{2}}^{\frac{3}{2}}$ $^3D_{\frac{3}{2}}^{\frac{3}{2}}$ $^3D_{\frac{5}{2}}^{\frac{3}{2}}$	50105. 54	78. 56 80. 38		$3d^5(a^2D)4p$	$v^3D_{\frac{1}{2}}^{\frac{3}{2}}$ $^3D_{\frac{3}{2}}^{\frac{3}{2}}$ $^3D_{\frac{5}{2}}^{\frac{3}{2}}$	54956. 59	196. 04 299. 01	
		50184. 10					55152. 63		
		50264. 48					55451. 64		
$3d^4 4s(c^4D)4p$	$u^5D_{\frac{1}{2}}^{\frac{5}{2}}$ $^5D_{\frac{3}{2}}^{\frac{5}{2}}$ $^5D_{\frac{5}{2}}^{\frac{5}{2}}$ $^5D_{\frac{7}{2}}^{\frac{5}{2}}$ $^5D_{\frac{9}{2}}^{\frac{5}{2}}$	50557. 56	-70. 55 -26. 65 -8. 01 1. 57		$3d^5(a^2I)4p$	$z^1K_{\frac{7}{2}}^{\frac{3}{2}}$	54970. 23		
		50628. 11					54992. 93		
		50654. 76					55101. 87		
$3d^4 4s(a^4F)4p$	$w^3F_{\frac{3}{2}}^{\frac{3}{2}}$ $^3F_{\frac{5}{2}}^{\frac{3}{2}}$ $^3F_{\frac{7}{2}}^{\frac{3}{2}}$	50890. 15	60. 27 109. 37		$3d^4 4s(b^2F)4p$	$v^3F_{\frac{3}{2}}^{\frac{3}{2}}$ $^3F_{\frac{5}{2}}^{\frac{3}{2}}$ $^3F_{\frac{7}{2}}^{\frac{3}{2}}$	54992. 93	108. 94 105. 53	
		50950. 42					55120. 77		
		51059. 79					55352. 72		
$3d^5(b^4D)4p$	$w^3P_{\frac{0}{2}}^{\frac{3}{2}}$ $^3P_{\frac{1}{2}}^{\frac{3}{2}}$ $^3P_{\frac{3}{2}}^{\frac{3}{2}}$	51176. 88	69. 99 39. 65		$3d^5(a^2F)4p$	$u^3F_{\frac{3}{2}}^{\frac{3}{2}}$ $^3F_{\frac{5}{2}}^{\frac{3}{2}}$ $^3F_{\frac{7}{2}}^{\frac{3}{2}}$	55120. 77	-231. 95 -120. 95	
		51246. 87					55473. 67		
		51286. 52					55516. 69		
$3d^5(a^2I)4p$	$z^1H_{\frac{3}{2}}^{\frac{3}{2}}$	51401. 24			$3d^5(a^2I)4p$	$y^1I_{\frac{3}{2}}^{\frac{3}{2}}$	55516. 69		
		51999. 62					55686. 46		
		52003. 06					55741. 11		
$3d^4 4s(a^4F)4p$	$t^5D_{\frac{0}{2}}^{\frac{5}{2}}$ $^5D_{\frac{1}{2}}^{\frac{5}{2}}$ $^5D_{\frac{3}{2}}^{\frac{5}{2}}$ $^5D_{\frac{5}{2}}^{\frac{5}{2}}$ $^5D_{\frac{7}{2}}^{\frac{5}{2}}$	52012. 44	3. 44 9. 38 19. 28 32. 55		$3d^4 4s(a^2H)4p$	$x^3I_{\frac{3}{2}}^{\frac{3}{2}}$ $^3I_{\frac{5}{2}}^{\frac{3}{2}}$ $^3I_{\frac{7}{2}}^{\frac{3}{2}}$	55741. 11	54. 65 57. 99	
		52031. 72					55799. 10		
		52064. 27					55908. 12		
$3d^5(a^2I)4p$	$y^3I_{\frac{5}{2}}^{\frac{3}{2}}$ $^3I_{\frac{7}{2}}^{\frac{3}{2}}$ $^3I_{\frac{9}{2}}^{\frac{3}{2}}$	52591. 94	68. 67 17. 27		$3d^5(b^2H)4p$	$u^3H_{\frac{3}{2}}^{\frac{3}{2}}$ $^3H_{\frac{5}{2}}^{\frac{3}{2}}$ $^3H_{\frac{7}{2}}^{\frac{3}{2}}$	55908. 12	33. 14 -40. 52	
		52660. 61					55874. 98		
		52677. 88					55915. 50		
					$3d^4 4s(a^2H)4p$	$y^1H_{\frac{3}{2}}^{\frac{3}{2}}$	55945. 08		

TABLE 5. *Odd terms of Cr I—Continued*

Electron configuration	Term symbol	Level	Interval	Observed <i>g</i>	Electron configuration	Term symbol	Level	Interval	Observed <i>g</i>
$3d^5(b^4F)4p$	$\left\{ \begin{array}{l} v^5G_{3/2}^{\circ} \\ ^5G_{3/2}^{\circ} \\ ^5G_{5/2}^{\circ} \\ ^5G_{7/2}^{\circ} \\ ^5G_{9/2}^{\circ} \end{array} \right.$	56155. 12	54. 69 69. 75 82. 30 87. 24		$3d^4 4s(a^6D)6p$	$\left\{ \begin{array}{l} q^5D_0^{\circ} \\ ^5D_1^{\circ} \\ ^5D_3^{\circ} \\ ^5D_3^{\circ} \\ ^5D_4^{\circ} \end{array} \right.$	60241. 5	49. 5 83. 90 118. 48 134. 54	
		56209. 81					60291. 04		
		56279. 56					60374. 94		
		56361. 86					60493. 42		
		56449. 10					60627. 96		
$3d^5(a^2D)4p$	$\left\{ \begin{array}{l} v^3P_{2/2}^{\circ} \\ ^3P_{1/1}^{\circ} \\ ^3P_{0/0}^{\circ} \end{array} \right.$	56591. 88	-130. 72 -79. 90		$3d^5(d^2G)4p$	$\left\{ \begin{array}{l} q^3F_{2/2}^{\circ} \\ ^3F_{3/3}^{\circ} \\ ^3F_{4/4}^{\circ} \end{array} \right.$	60253. 00	73. 04 41. 34	
		56722. 60					60326. 04		
		56802. 50					60367. 38		
$3d^5(a^2G)4p$	$\left\{ \begin{array}{l} u^3G_{3/2}^{\circ} \\ ^3G_{5/2}^{\circ} \\ ^3G_{7/2}^{\circ} \end{array} \right.$	56985. 67	47. 93 54. 65		$3d^4 4s(b^2I)4p$	$\left\{ \begin{array}{l} v^3I_{5/5}^{\circ} \\ ^3I_{3/3}^{\circ} \\ ^3I_{7/7}^{\circ} \end{array} \right.$	60427. 63	99. 92 129. 42	
		57033. 60					60527. 55		
		57088. 25					60656. 97		
$3d^5(b^2S)4p$	$\left\{ \begin{array}{l} u^3P_{3/2}^{\circ} \\ ^3P_{1/1}^{\circ} \\ ^3P_{0/0}^{\circ} \end{array} \right.$	57087. 70	-44. 89 -22. 00		$3d^5(b^2H)4p$	$x^1I_{3/3}^{\circ}$	60441. 42		
		57132. 59							
		57154. 59							
$3d^4 4s(a^6D)6p$	$\left\{ \begin{array}{l} p^5F_{1/1}^{\circ} \\ ^5F_{3/3}^{\circ} \\ ^5F_{3/3}^{\circ} \\ ^5F_{4/4}^{\circ} \\ ^5F_{5/5}^{\circ} \end{array} \right.$	57096. 62	4. 04 85. 94 50. 90 90. 16		$3d^5(b^2F)4p$	$\left\{ \begin{array}{l} s^3D_{3/3}^{\circ} \\ ^3D_{3/3}^{\circ} \\ ^3D_{1/1}^{\circ} \end{array} \right.$	60615. 84	-14. 03 -48. 25	
		57100. 66					60629. 87		
		57186. 60					60678. 12		
		57237. 50							
		57327. 66							
$3d^5(c^2F)4p$	$\left\{ \begin{array}{l} t^3F_{3/3}^{\circ} \\ ^3F_{3/3}^{\circ} \\ ^3F_{1/1}^{\circ} \end{array} \right.$	57220. 67	55. 75 59. 05		$3d^4 4s(a^4D)6p$	$\left\{ \begin{array}{l} o^5F_{1/1}^{\circ} \\ ^5F_{3/3}^{\circ} \\ ^5F_{3/3}^{\circ} \\ ^5F_{4/4}^{\circ} \\ ^5F_{5/5}^{\circ} \end{array} \right.$	60683. 53	97. 72 123. 59 151. 57 139. 43	
		57276. 42					60781. 25		
		57335. 47					60904. 84		
							61056. 41		
							61184. 95		
$3d^4 4s(b^2F)4p$	$\left\{ \begin{array}{l} t^3G_{3/3}^{\circ} \\ ^3G_{5/2}^{\circ} \\ ^3G_{5/2}^{\circ} \end{array} \right.$	57557. 03	30. 33 115. 00		$3d^4 4s(c^2G)4p$	$\left\{ \begin{array}{l} p^3F_{2/2}^{\circ} \\ ^3F_{3/3}^{\circ} \\ ^3F_{4/4}^{\circ} \end{array} \right.$	60819. 50	141. 08	
		57587. 36					60960. 58		
		57702. 36							
$3d^4 4s(a^4D)5p$	$\left\{ \begin{array}{l} r^5D_{0/0}^{\circ} \\ ^5D_{1/1}^{\circ} \\ ^5D_{2/2}^{\circ} \\ ^5D_{3/3}^{\circ} \\ ^5D_{4/4}^{\circ} \end{array} \right.$	57958. 42	36. 62 68. 76 83. 96 144. 86		$3d^4 4s(c^2G)4p$	$\left\{ \begin{array}{l} s^3H_{4/4}^{\circ} \\ ^3H_{5/5}^{\circ} \\ ^3H_{6/6}^{\circ} \end{array} \right.$	60870. 63	137. 44 183. 57	
		57995. 04					61008. 07		
		58063. 80					61191. 64		
		58147. 76							
		58292. 62							
$3d^5(a^2D)4p$	$\left\{ \begin{array}{l} s^3F_{3/3}^{\circ} \\ ^3F_{3/3}^{\circ} \\ ^3F_{4/4}^{\circ} \end{array} \right.$	58162. 84	39. 81 -34. 76		$3d^4 4s(a^4D)6p$	$\left\{ \begin{array}{l} r^5P_{1/1}^{\circ} \\ ^5P_{2/2}^{\circ} \\ ^5P_{3/3}^{\circ} \end{array} \right.$	61065. 96	41. 99 90. 73	
		58202. 65					61107. 95		
		58167. 89					61198. 68		
$3d^4 4s(a^2P)4p$	$\left\{ \begin{array}{l} u^3D_{1/1}^{\circ} \\ ^3D_{2/2}^{\circ} \\ ^3D_{3/3}^{\circ} \end{array} \right.$	58725. 28	134. 95 261. 92		$3d^5(b^2F)4p$	$\left\{ \begin{array}{l} r^3G_{3/3}^{\circ} \\ ^3G_{5/2}^{\circ} \\ ^3G_{5/2}^{\circ} \end{array} \right.$	61078. 28	44. 92 38. 15	
		58860. 23					61123. 20		
		59122. 15					61161. 35		
$3d^4 4s(a^2G)4p$	$\left\{ \begin{array}{l} t^3H_{4/4}^{\circ} \\ ^3H_{5/5}^{\circ} \\ ^3H_{6/6}^{\circ} \end{array} \right.$	58728. 29	26. 29 20. 78		$3d^4 4s(c^2G)4p$	$\left\{ \begin{array}{l} q^3G_{3/3}^{\circ} \\ ^3G_{4/4}^{\circ} \\ ^3G_{5/5}^{\circ} \end{array} \right.$	61930. 05	46. 55 61. 10	
		58754. 58					61976. 50		
		58775. 36					62037. 60		
$3d^5(a^2F)4p$	$\left\{ \begin{array}{l} t^3D_{1/1}^{\circ} \\ ^3D_{2/2}^{\circ} \\ ^3D_{3/3}^{\circ} \end{array} \right.$	58870. 20	-98. 17 152. 09		$3d^4 4s(b^2I)4p$	$\left\{ \begin{array}{l} r^3H_{4/4}^{\circ} \\ ^3H_{5/5}^{\circ} \\ ^3H_{6/6}^{\circ} \end{array} \right.$	62762. 06	68. 20 72. 77	
		58772. 03					62830. 26		
		58924. 12					62903. 03		
$3d^4 4s(a^2G)4p$	$\left\{ \begin{array}{l} r^3F_{3/3}^{\circ} \\ ^3F_{3/3}^{\circ} \\ ^3F_{4/4}^{\circ} \end{array} \right.$	59357. 90	59. 11 70. 70		$3d^5(d^2G)4p$	$\left\{ \begin{array}{l} q^3H_{4/4}^{\circ} \\ ^3H_{5/5}^{\circ} \\ ^3H_{6/6}^{\circ} \end{array} \right.$	63116. 80	27. 56 38. 58	
		59417. 01					63144. 36		
		59487. 71					63182. 94		
$3d^5(b^2H)4p$	$\left\{ \begin{array}{l} w^3I_{5/5}^{\circ} \\ ^3I_{6/6}^{\circ} \\ ^3I_{7/7}^{\circ} \end{array} \right.$	59806. 27	78. 00 73. 19		$3d^5(d^2G)4p$	$\left\{ \begin{array}{l} p^3H_{4/4}^{\circ} \\ ^3H_{5/5}^{\circ} \\ ^3H_{6/6}^{\circ} \end{array} \right.$	63841. 81	85. 46 70. 59	
		59884. 27					63927. 27		
		59957. 46					63997. 86		
$3d^5(b^2H)4p$	$x^1H_{5/5}^{\circ}$	60005. 60			$3d^5(d^2G)4p$	$\left\{ \begin{array}{l} p^3G_{3/3}^{\circ} \\ ^3G_{5/2}^{\circ} \\ ^3G_{5/2}^{\circ} \end{array} \right.$	66008. 95	85. 11 86. 28	
$3d^4 4s(a^2P)4p$	$x^3S_{1/1}^{\circ}$	60084. 09					66094. 06		

TABLE 6. CrO band-heads

Wave-length	In-tensity	Wave number	Wave-length	In-tensity	Wave number
11035. 8	2	9058. 9	6396. 12	25	15630. 17
10985. 26	3	9100. 6	6394. 46	40	15634. 23
10941. 25	3	9137. 2	6364. 40	10	15708. 07
10179. 95	2	9820. 6	6295. 59	4	15879. 75
9317. 2	1	10729. 9	6244. 35	10	16010. 06
8675. 7	2	11523. 3	6119. 98	15	16335. 41
8360. 07	5	11958. 34	6058. 54	25	16501. 07
8338. 18	8	11989. 73	6055. 00	10	16510. 72
8173. 36	3	12231. 51	6053. 45	8	16514. 94
8028. 3	2h	12452. 52	6051. 76	50	16519. 56
7842. 8	5	12747. 05	6025. 01	15	16592. 90
7369. 3	10	13566. 08	5885. 84	15	16985. 23
7327. 4	5	13643. 65	5806. 74	10	17216. 60
7213. 4	4	13859. 27	5794. 50	15	17252. 97
7190. 1	2	13904. 19	5744. 72	12	17402. 47
7172. 5	3	13938. 30	5673. 06	20	17622. 29
6829. 37	4	14638. 61	5635. 96	30	17738. 30
6772. 23	20	14762. 12	5564. 15	20	17967. 22
6453. 32	10	15491. 63	5550. 76	8	18010. 56
6397. 87	30	15625. 89	5546. 48	8	18024. 46

TABLE 7. Series in Cr I

3d ⁵ ns series		3d ⁵ np series	3d ⁵ nd series
⁷ S terms	⁵ S terms	⁷ P ^o terms	⁷ D terms
a ⁷ S ₃ 54570 e ⁷ S ₃ 17674 f ⁷ S ₃ 8927 g ⁷ S ₃ 5392	a ⁵ S ₂ 46977 e ⁵ S ₂ 16687 f ⁵ S ₂ 8602 g ⁵ S ₂ 5249 h ⁵ S ₂ 3534	z ⁷ P ₁ ^o 31071 x ⁷ P ₁ ^o 12295 w ⁷ P ₁ ^o 6851	e ⁷ D ₅ 12310 g ⁷ D ₅ 6861
L=31071 cm ⁻¹ α=+0.5161 β=-0.0980	L=27782 cm ⁻¹ α=+0.5772 β=-0.0488	L=54570 cm ⁻¹ α=+1.0196 β=-0.1399	L=31071 cm ⁻¹ α=+2.0038 β=-0.0181

TABLE 8. Classification of some infrared lines of Cr I

Term combination	Calculated wave number	Calculated wavelength	Observed wavelength and intensity R. and B [4]	Solar wavelength and intensity G. M. and McM [45]
e ⁷ S ₃ -x ⁷ P _{3/2} ^o e ⁷ S ₃ -x ⁷ P _{3/2} ^o e ⁷ S ₃ -x ⁷ P _{1/2} ^o	cm ⁻¹ 5342. 31 5358. 38 5379. 47	A 18718. 50 18662. 36 18589. 19	A 18717. 0(20) 18654. 2(30) 18583. 5(30)	A
e ⁵ S ₂ -w ⁵ P ₁ ^o e ⁵ S ₂ -w ⁵ P ₂ ^o e ⁵ S ₂ -w ⁵ P ₃ ^o	6242. 56 6303. 58 6376. 02	16019. 16 15864. 00 15683. 77	----- 15860. 5(30) 15680. 0(30)	16021. 7?+atm. 15863. 7(12)+atm. 15683. 6(4)

TABLE 9. *Theoretical and observed terms of Cr I*

Electron configuration $1s^2 2s^2 2p^6 3s^2 3p^6 +$	Theoretical and observed terms
$3d^5 4s$	$7,5S \quad 5,3(GFDP) \quad 3,1(IGFDS)$ $3,1(HGFDP) \quad 3,1D$
$3d^4 4s^2$	$5D \quad 3(HGFDP) \quad 1(IGFDS) \quad 3(FP)$ $1(GDS)$
$3d^6$	$5D \quad 3(HGFDP) \quad 1(IGFDS) \quad 3(FP)$ $1(GDS)$
$3d^5 4p$	$7,5P^\circ \quad 5,3(HGF)^\circ \quad 5,3(GFD)^\circ$ $5,3(FDP)^\circ \quad 5,3(DPS)^\circ \quad 3,1(KIH)^\circ$ $3,1(HGF)^\circ \quad 3,1(GFD)^\circ \quad 3,1(FDP)^\circ$ $3,1P^\circ \quad 3,1(IHG)^\circ \quad 3,1(HGF)^\circ$ $3,1(GFD)^\circ \quad 3,1(FDP)^\circ \quad 3,1(DPS)^\circ$ $3,1(FDP)^\circ$
$3d^4 4s 4p'$	$7,5(FDP)^\circ \quad 5,3(FDP)^\circ \quad 5,3(IHG)^\circ$ $3,1(IHG)^\circ \quad 5,3(HGF)^\circ \quad 3,1(HGF)^\circ$ $5,3(GFD)^\circ \quad 3,1(GFD)^\circ \quad 5,3(FDP)^\circ$ $3,1(FDP)^\circ \quad 5,3(DPS)^\circ \quad 3,1(DPS)^\circ$ $3,1(HGF)^\circ \quad 3,1(KIH)^\circ \quad 3,1(GFD)^\circ$ $3,1(FDP)^\circ \quad 3,1P^\circ \quad 5,3(GFD)^\circ$ $3,1(GFD)^\circ \quad 5,3(DPS)^\circ \quad 3,1(DPS)^\circ$ $3,1(HGF)^\circ \quad 3,1(FDP)^\circ \quad 3,1P^\circ$
$3d^5 ns$	$7,5S \quad 5,3(GFDP), \text{ etc.}$
$3d^5 np$	$7,5P^\circ \quad 5,3(HGF)^\circ \quad 5,3(GFD)^\circ$ $5,3(FDP)^\circ \quad 5,3(DPS)^\circ, \text{ etc.}$
$3d^5 nd$	$7,5D \quad 5,3(IHGFD), \text{ etc.}$
$3d^4 4s ns$	$7,5D \quad 5,3D \quad 5,3(HGFDP), \text{ etc.}$
$3d^4 4s np$	$7,5(FDP)^\circ \quad 5,3(FDP)^\circ$
$3d^4 4s nd$	$7,5(GFDPS) \quad 5,3(GFDPS), \text{ etc.}$
$3d^4 4p^2$	$7,5,3(FDP) \quad 5(GFDPS) \quad 5D, \text{ etc.}$

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